

ORGANIZATIONAL, INTERMEDIATE, AND DEPOT MAINTENANCE

DESCRIPTION AND PRINCIPLES OF OPERATION

A/P22P-11 EMERGENCY EGRESS CREW BACKPACK ASSEMBLY

PART NO. 123AB50510-3

List of Effective Work Package Pages

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Reference Material

Aviation - Crew Systems Manual, Inflatable Survival Equipment	NAVAIR 13-1-6.1
Aviation - Crew Systems Manual, Oxygen Equipment	NAVAIR 13-1-6.4
Aviation - Crew Systems Manual, Rescue and Survival Equipment	NAVAIR 13-1-6.5
Illustrated Parts Breakdown	WP 025 04

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Record of Applicable Technical Directives

None

1. DESCRIPTION.

2. GENERAL. Emergency Egress Backpack Assembly (crew backpack) is designated A/P22P-11, and was developed for use in the E-2C aircraft. It is installed on the aircrew seats. The crew backpack contains three major parts: a parachute assembly, seat survival kit assembly, and an emergency oxygen system assembly (Figure 1).

3. The crew backpack is installed into the aircrew seat parachute support and the lapbelt fittings are installed and secured/snapped in place in the seat retaining pin cavities. During an emergency egress or removal of the crew back-pack for maintenance, the crew backpack lapbelt fittings are released from the retaining pin cavities and inertia reel cable and fitting by means of actuating the emergency equipment release handle located on the right side of the seat bucket.

4. The crew backpack measures about 15 in. wide, 6 in. thick and 24 in. high, and the weight is about 37 lb.

5. CONFIGURATION.

6. The two piece, upper and lower, crew backpack containers are constructed of rigid fiberglass material, and are mated by two hinges and straight pins. The upper container, which houses the 26 ft. diameter conical shaped canopy assembly, has four flap assemblies (left, right, top, and bottom) attached to the fiberglass container by means of hook and pile tape fasteners and directional snap fasteners. The upper container of the crew backpack is designated Parachute PCK-47/P22P-11. The canopy assembly is multi-colored (white, olive green, international orange, and sand shade), 26 ft. diameter, conical shaped, nylon consisting of 22 gores. Water deflation pockets are sewn to the skirt hem on alternate gores. The canopy and risers are packed in the upper container, extending from the left and right top of the container. The crew backpack is secured to the aircrew by the right and left lapbelt assemblies, and the canopy releases to the parachute restraint harness fittings located in the shoulder area.

7. The lower container contains a SKK-9/P22P-11 seat survival kit assembly and an emergency oxygen system assembly. The seat survival kit assembly is a two sided assembly containing a LRU-18U life raft packed in the right side and survival items packed in the left side. The seat survival

kit assembly is releasable by rotating the survival kit release handle located under the cushion assembly on the lower left side of the lower container. The emergency oxygen system assembly contains a removable 45 cu. in. emergency oxygen assembly with a CRU79/P miniature regulator and an attached oxygen hose assembly.

8. During flight operations, the crew backpack functions as the seat back with a back cushion assembly, and has an adjustable back pad assembly (lumbar pad) for aircrew comfort. The parts are identified in (Figure 2).

9. SUBASSEMBLY CONFIGURATION. The subassemblies listed below and shown in (Figure 2), make up the crew backpack assembly. Refer to Illustrated Parts Breakdown WP 025 04 for detailed information on the following subassemblies:

Pilot Parachute

Pilot Parachute Connector Strap

Canopy Assembly

Riser Assembly, Ripcord Assembly, Ripcord, Cross-Connector Straps

Canopy Releases

Anti-Rotation Strap Assembly

Container Assembly

Cushion Assembly

Lapbelt Assembly

Seat Survival Kit Assembly

Emergency Oxygen System Assembly.

10. For subassembly configuration of the emergency oxygen system, mini-regulator system, and oxygen hose, refer to NAVAIR 13-1-6.4. For subassembly configurations of the survival items in the seat survival kit assembly, refer to NAVAIR 13-1-6.5. For subassembly configuration of the liferaft and packing of survival items, refer to NAVAIR 13-1-6.1.

11. Should an emergency oxygen supply be required, the aircrew actuates the emergency oxygen supply by pulling downward on the green manual oxygen release ball, located near the left side, bottom, of the crew back-pack.

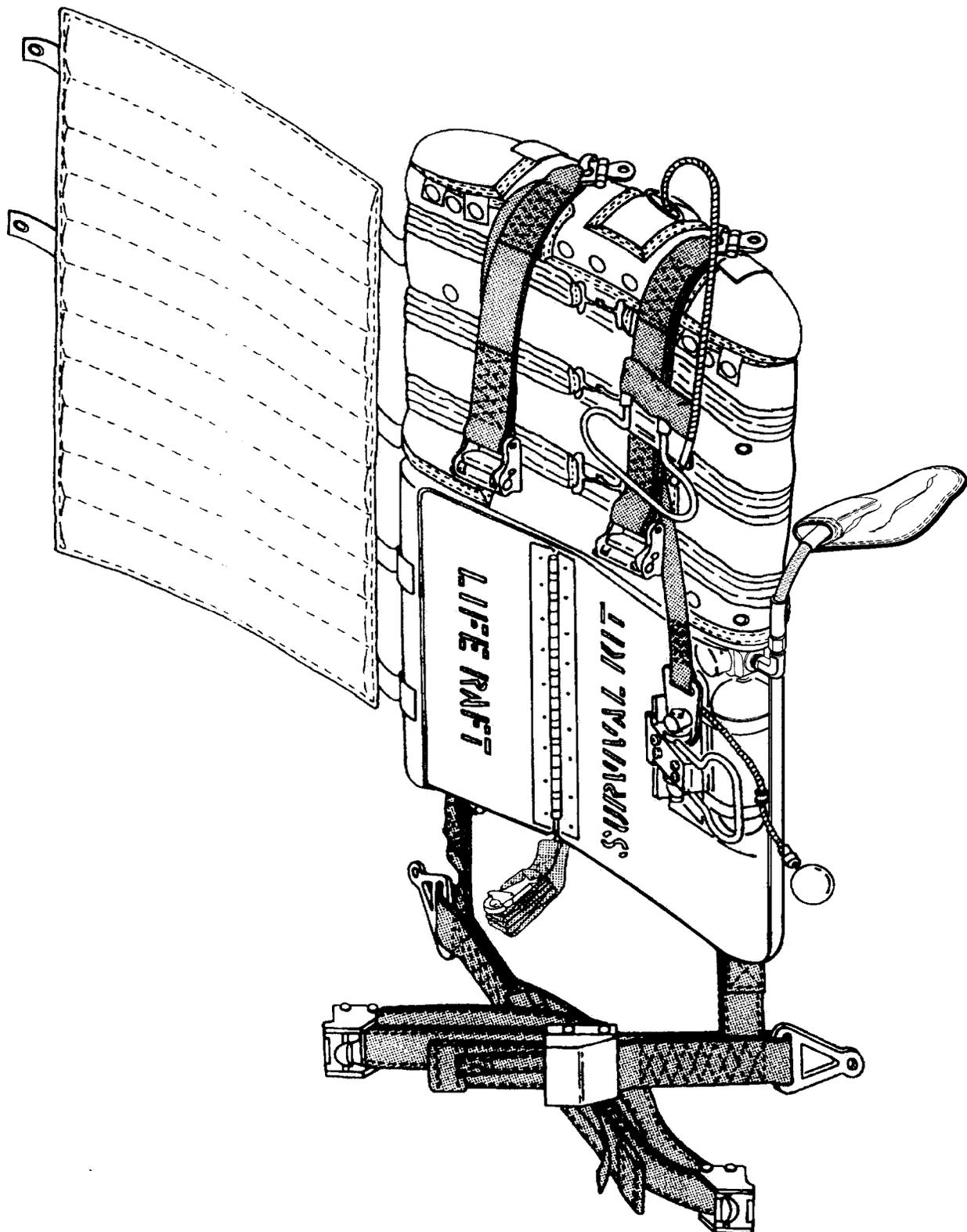
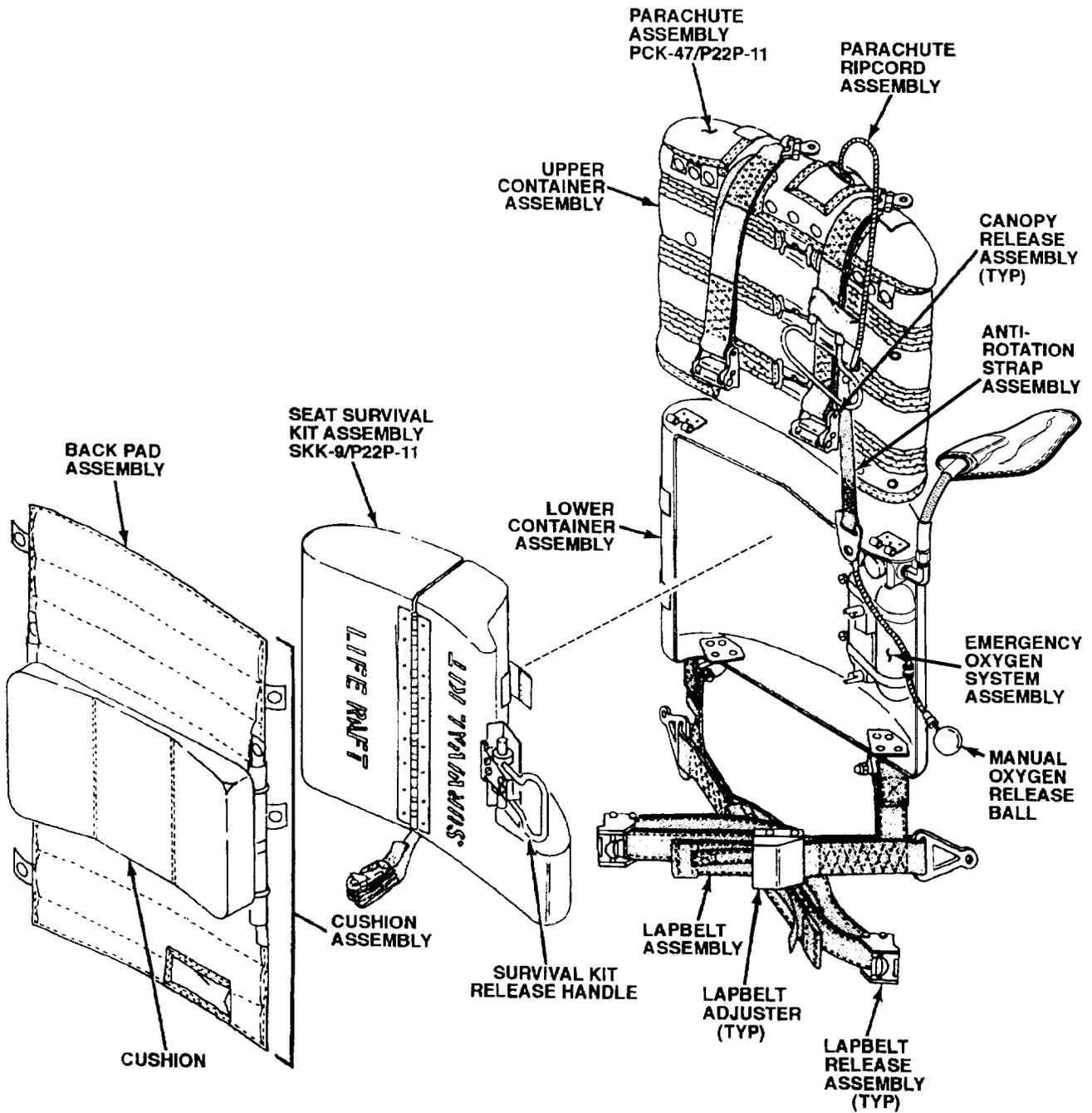
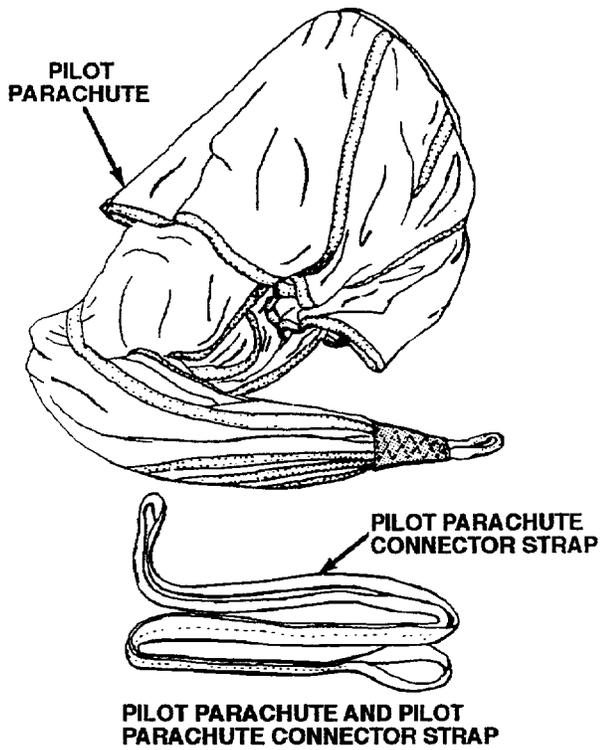


Figure 1. Emergency Egress Crew Backpack Assembly, A/P22P-11

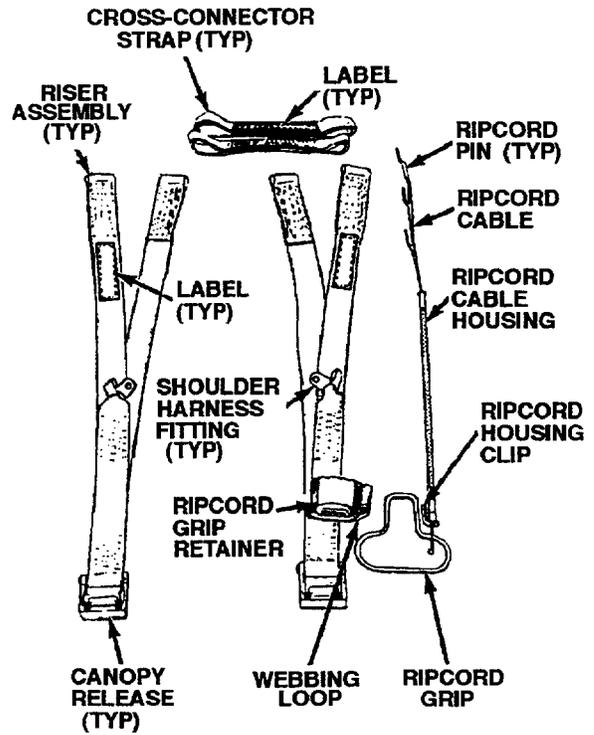


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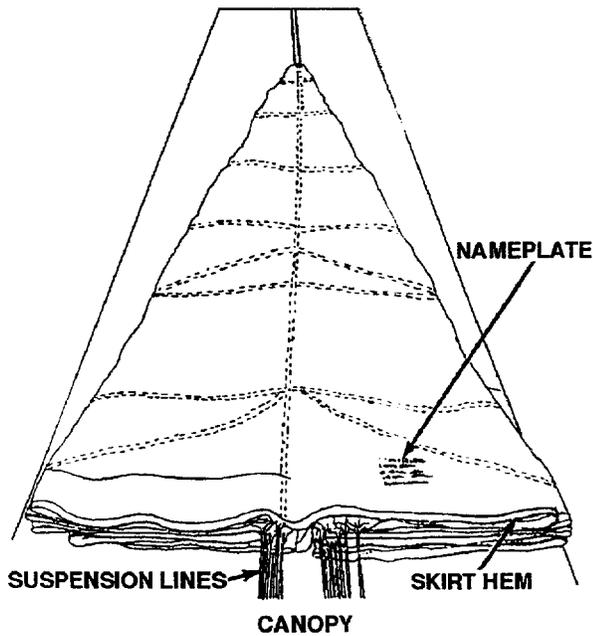
Figure 2. Subassemblies, A/P22P-11 (Sheet 1 of 2)



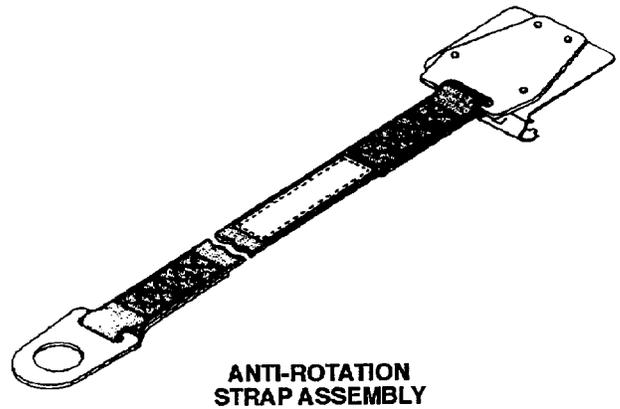
6.2-7024A



6.2-7024C



6.2-7024B



6.2-7024D

Figure 2. Subassemblies, A/P22P-11 (Sheet 2 of 2)

12. PRINCIPLES OF OPERATION.

13. MANUAL OPERATION. After an exit from a disabled aircraft, the following sequence of events takes place:

a. Manually grasping and pulling the ripcord grip removes the ripcord pins from the container locking cones, permitting the spring opening assemblies to pull the side flaps apart, allowing the pilot parachute to spring from the opened container and inflate.

■ b. As the aircrew falls away from the inflated pilot parachute, which acts as an anchor, the canopy, followed by the suspension lines, is extracted from the container. The canopy begins to inflate during this operation.

c. As the load is applied to the canopy and it fully inflates, the connector link ties break away from the container, followed by the riser snap fasteners disengaging from the container. This permits the aircrew to descent suspended from the canopy in the parachute restraint harness.

■ j. Upon landing, the aircrew disengages the parachute assembly from the PCU-33/P or PCU-56/P parachute restraint harness by actuating the canopy release assembly.

■ 14. REPACK SCHEDULE.

a. Scheduled repack cycle is 224 days.

ORGANIZATIONAL MAINTENANCE

REPAIR PROCEDURES

A/P22P-11 EMERGENCY EGRESS CREW BACKPACK ASSEMBLY

PART NO. 123AB50510-3

List of Effective Work Package Pages

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Aviation - Crew Systems Manual, Seat Survival Kits	NAVAIR 13-1-6.3
Aviation - Crew Systems Manual, Oxygen Equipment	NAVAIR 13-1-6.4
Intermediate and Depot Maintenance, Packing Procedures, A/P22P-11 Emergency Egress Crew Backpack Assembly	WP 025 02
Introduction	WP 002 00

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Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. This work package (WP) contains instructions for organizational level repair to ensure that the parachute assembly remains in ready-for-issue (RFI) status.

3. When performing repairs detailed in this WP follow these guidelines:

- a. Review all applicable instructions prior to starting repair.
- b. Ensure all necessary support equipment and materials required are available prior to starting repair.
- c. When required, remove enough material from its source for immediate use only. Ensure that the material identification ticket remains with the source material at all times. Material that cannot be identified will not be used.
- d. To ensure conformity, all repair work shall be carefully inspected and compared to applicable instructions at completion of work.
- e. A quality assurance (QA) inspector shall examine the finished work.

4. RISER ASSEMBLY.

5. RIPCORD HOUSING CLIP TACKING REPLACEMENT.

Materials Required

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

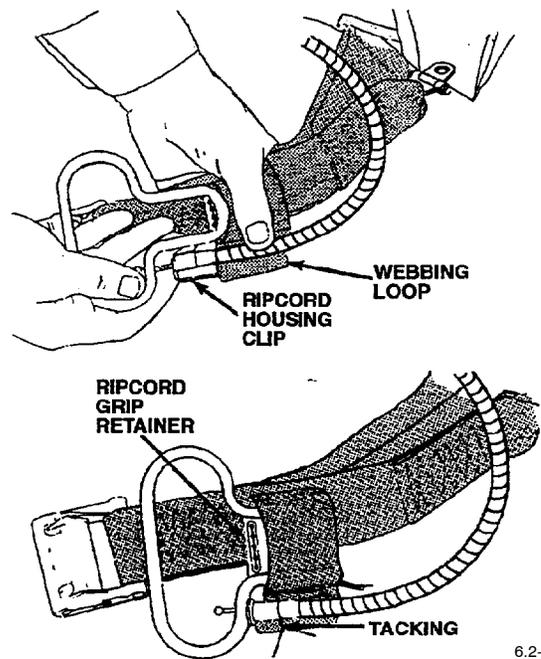
NOTE

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

a. If necessary, insert ripcord housing clip into webbing loop attached to riser (Figure 1).

b. Tack thru loop and thru hole in ripcord housing clip with one turn of size E thread, single and waxed; tie off (Figure 1). (QA)

c. Insert ripcord grip into ripcord grip retainer.



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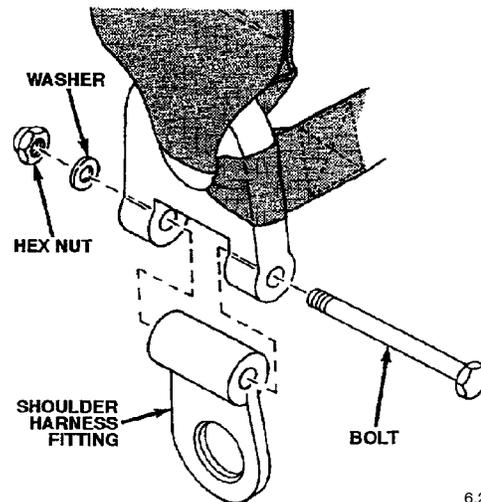
Figure 1. Ripcord Housing Clip Tacking Replacement

6. SHOULDER HARNESS FITTING REPLACEMENT.

Materials Required

Specification or Part Number	Nomenclature
123ABM50500-11	Fitting
22NKTM-02	Nut, Hex

a. Remove and discard hex nut. Remove washers, bolt, and shoulder harness fitting (Figure 2).



6.2-7026

Figure 2. Shoulder Harness Fitting Replacement

b. Inspect replacement shoulder harness fitting for corrosion, burrs, and sharp edges.

c. Insert replacement shoulder harness fitting and install bolt, washers, and new hex nut (Figure 2).

7. RIPCORD CLAMP RELEASE LANYARD TACKLING REPLACEMENT.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size FF, 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. Position large slotted end of base plate clamp under screwhead on base plate. Position ripcord housing and spacer under clamp with flat sides of each housing positioned against base plate stud. Insert locking pin into stud hole and tighten screw to secure clamp in place (Figure 3). (QA)

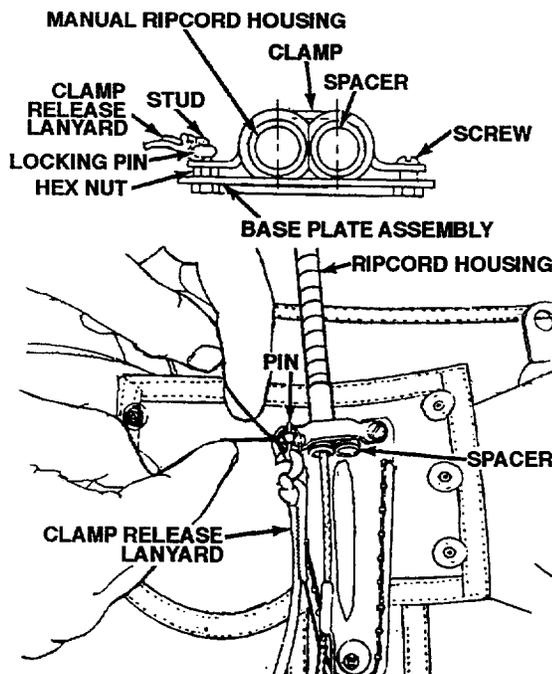


Figure 3. Ripcord Clamp Release Lanyard Tacking Replacement

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b. Safety-tie locking pin to stud with one turn of size FF thread, single and waxed. Pass thread thru lanyard knot; tie off (Figure 3). (QA)

8. CANOPY RELEASE ASSEMBLY.

a. Repair of canopy release assembly is limited to the following:

(1) Replacement of broken torque seal on screw head.

(2) Cleaning of dirt, grease, and other contaminating agents.

b. Replace canopy release assembly for any of the following:

(1) Inoperable release.

(2) Corrosion, contamination, pitting, cracks, dents, and other damage. Inspect the release lever left and right arms for cracks.

9. TORQUE SEAL ON CANOPY RELEASE ASSEMBLY REPLACEMENT.

Materials Required

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

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

b. Apply torque seal to setscrew (Figure 4).

10. CANOPY RELEASE ASSEMBLY REPLACEMENT.

Materials Required

Specification or Part Number	Nomenclature
990065-1	Adjuster Assembly, Strap
-or-	
015-710001-1	

990055-1 Release Assembly, Canopy

-or-

015-10307-5

990055-1 Release Assembly, Canopy

-or-

015-10307-5

F-900 Torque Seal (Color Optional) Sealing Compound

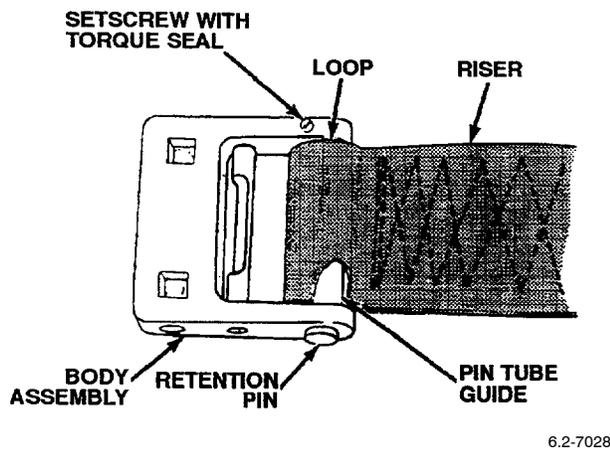


Figure 4. Canopy Release Assembly Replacement

CAUTION

To prevent damage to locking lever cover spring, do not lift locking lever cover after retention pin has been removed.

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

NOTE

Some canopy release assemblies may still have pin-head (Allen head) screws installed. This screw will remain in service until removal becomes necessary. Replacement will be made with a slotted head setscrew P/N 122-10935-3 (CAGE 99449). This screw is a one-time use item.

b. Inspect replacement canopy release assembly per WP 025 02.

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

(1) Engage adapter assembly with canopy release assembly.

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(2) Verify full locking of canopy release assembly by lifting locking lever cover and attempting to disengage adapter assembly from canopy release assembly (Figure 5).

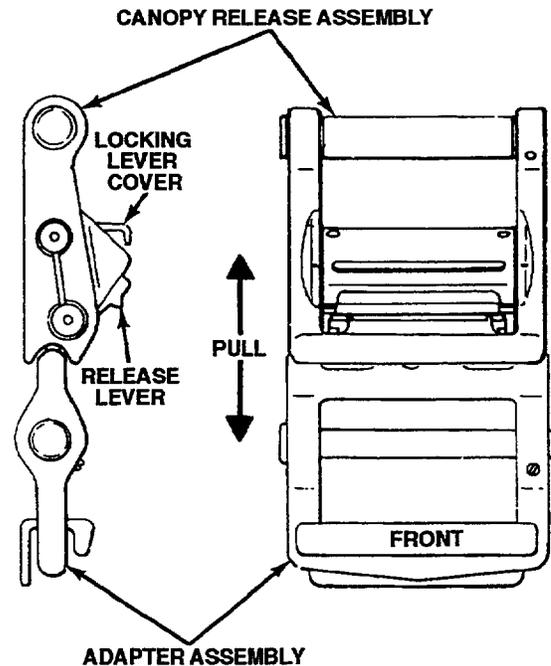


Figure 5. Canopy Release Assembly Locking Inspection

CAUTION

To prevent damage to locking lever cover spring, do not lift locking lever cover after retention pin has been removed.

d. Remove setscrew on underside of replacement canopy release assembly and slide retention pin out (Figure 4). Remove pin guide tube.

e. Insert replacement pin guide tube into riser loop (Figure 4).

f. Insert riser loop and pin guide tube into body of canopy release assembly (Figure 4). Ensure that release body is properly positioned for mating with release adapter. Insert retention pin thru pin guide tube.

g. Insert setscrew in hole located on underside of canopy release assembly (Figure 4) and tighten.

h. Apply torque seal to setscrew (Figure 4).

11. CONTAINER ASSEMBLY.

12. SPRING OPENING ASSEMBLY REPLACEMENT.

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

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

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

c. Remove cushion assembly from crew backpack per Paragraph 17.

d. Remove defective spring opening assembly from slot on centerline of container and flap assembly eye.

e. Attach hook of replacement spring opening assembly with hook facing down to slot on container centerline.

f. Attach remaining hook to corresponding eye on container flap assembly.

g. Attach cushion assembly on crew backpack per Paragraph 17.

13. LAPBELT ASSEMBLY.

14. LAPBELT ADJUSTER REPLACEMENT.

Materials Required	
Specification or Part Number	Nomenclature
184C100-1	Adjuster, Lapbelt
MIL-S-22473	Sealing Compound, Grade H

a. Replace lapbelt adjuster per NAVAIR 13-1-6.3.

15. LAPBELT RELEASE ASSEMBLY REPLACEMENT.

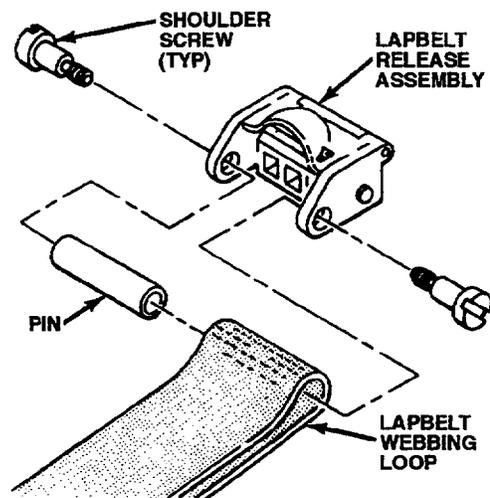
Materials Required	
Specification or Part Number	Nomenclature
1979AS826-1 -or- 015-11365-1 -or- 990060-1	Release Assembly, Lapbelt
MIL-S-22473	Sealing Compound, Grade H

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

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

c. Insert replacement pin into lapbelt webbing loop.

d. Apply sealing compound to threads of two shoulder screws. Insert webbing loop into release assembly, install shoulder screws thru holes in release assembly and into pin (Figure 6). (QA)



6.2-7033

Figure 6. Lapbelt Release Assembly Replacement

16. LAPBELT ASSEMBLY REPLACEMENT.

Support Equipment Required	
Part Number	Nomenclature
—	Wrench, 7/16-in.

Materials Required

Specification or Part Number	Nomenclature
123AB50516-1 or 123AB50516-2	Lapbelt, Left Side Lapbelt, Right Side
GN510C-T428	Nut, Hex

a. Remove and discard hex nut. Remove washers, bolt, and lapbelt assembly (Figure 7).

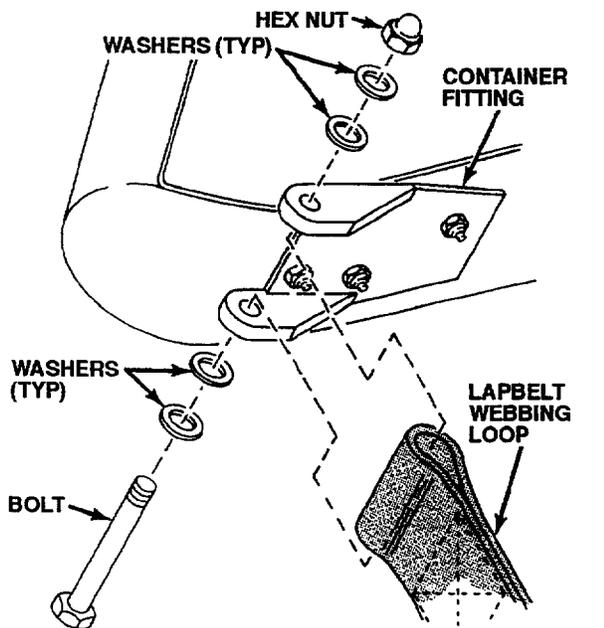


Figure 7. Lapbelt Assembly Replacement

6.2-7034

b. Inspect replacement lapbelt assembly for loose or broken stitches, snags, or contamination.

c. Insert replacement lapbelt assembly and install bolt, washers, and new hex nut (Figure 7), left side shown for clarity). Ensure hex nut faces inboard.

d. Tighten bolt and nut. (QA)

e. Remove lapbelt adjuster and lapbelt release assembly from unserviceable lapbelt, and attach to replacement lapbelt per Paragraphs 14 and 15.

f. Mark date placed in service on replacement lapbelt label. (QA)

17. CUSHION ASSEMBLY.

18. CUSHION REMOVAL.

a. Remove unserviceable cushion as follows:

(1) Unsnap two snap fasteners securing cushion to backpad assembly. Remove cushion by sliding upward and free of backpad assembly.

(2) Dispose of unserviceable cushion per current supply directives.

19. BACKPAD ASSEMBLY REMOVAL.

a. Remove unserviceable backpad assembly as follows:

(1) Remove survival kit lanyard from lanyard stowage pocket at lower left portion of backpad assembly.

(2) Remove backpad assembly from snap fasteners and pile fasteners. Dispose unserviceable backpad assembly per current supply directives.

20. BACKPAD ASSEMBLY REPLACEMENT.

a. Inspect survival kit lanyard per NAVAIR 13-1-6.3.

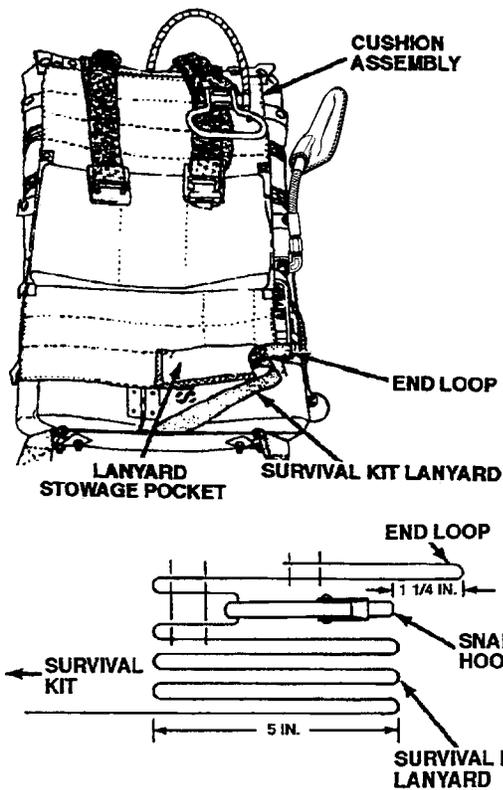
b. Attach replacement backpad assembly to snap fasteners and pile fasteners.

c. Accordion fold and insert survival kit lanyard in lanyard stowage pocket. Ensure snap hook is completely inside lanyard stowage pocket, and end loop of lanyard is exposed outside lanyard stowage pocket (Figure 8).

21. CUSHION REPLACEMENT.

a. Install replacement cushion onto cushion adjusters located on backpad.

b. Secure snap fasteners located on top of adjusters.



6.2-7035

Figure 8. Cushion Assembly Replacement

22. SURVIVAL KIT.

23. SURVIVAL KIT REMOVAL.

a. Unsnap lower right two snap fasteners on backpad assembly. Remove tamper seal from release handle and from oxygen release cable.

b. Rotate survival kit release handle counterclockwise, remove anti-rotation strap fitting from locking mechanism upper stud (Figure 9).

c. Remove survival kit from lower container.

24. SURVIVAL KIT INSTALLATION.

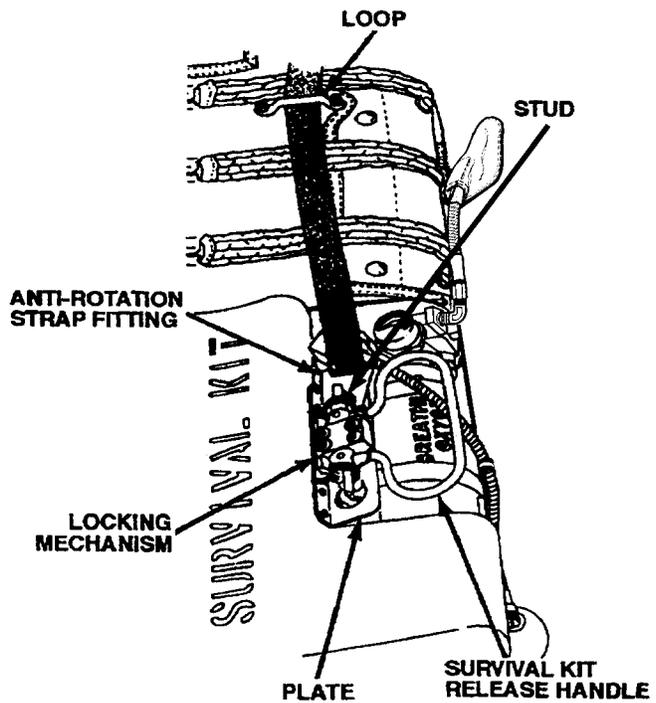
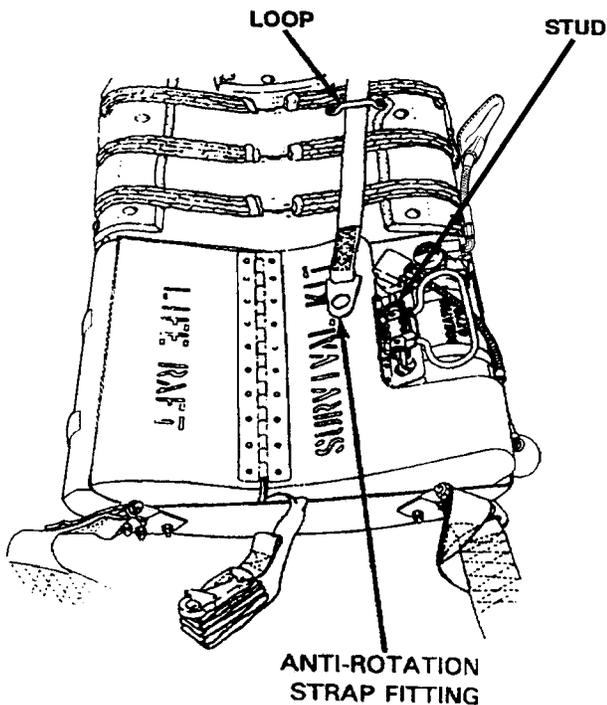
Materials Required

Specification or Part Number

Nomenclature

F-900 Torque Seal (Color Optional)

Sealing Compound



6.2-7036

Figure 9. Survival Kit Replacement

NOTE

Loosening the three (3) captive screws aids in the installation of the survival kit and the prevention of inadvertent actuation.

a. Loosen the three captive screws 2 1/2 turns or 3 turns maximum (Figure 11). Place survival kit in lower container.

b. Place anti-rotation strap fitting between plate and locking mechanism, ensuring there are no twists in anti-rotation strap. Lock survival kit release handle by rotating clockwise. Ensure that anti-rotation strap fitting is located between plate and locking mechanism (Figure 10). Tighten three captive screws (Figure 11) and apply torque seal to each screw (Figure 13). (QA)

c. Install tamper seal on release handle and oxygen release cable.

d. Secure lower right two snap fasteners on backpad assembly.

25. ANTI-ROTATION STRAP ASSEMBLY REPLACEMENT.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size FF, Type I or II Class A
—	Tamper Seal (2)
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. Remove backpad assembly from crew backpack per Paragraph 19, above.

b. Remove and discard tamper seal on release handle and oxygen release cable.

c. Rotate survival kit release handle counterclockwise and remove anti-rotation strap fitting from locking mechanism upper stud (Figure 10).

d. Remove anti-rotation strap clip from canopy release assembly (Figure 10). Remove torque seal from the three captive screws.

e. Remove anti-rotation strap from loop.

f. Inspect replacement anti-rotation strap per WP 025 02.

g. Route anti-rotation strap fitting thru loop toward the locking mechanism upper stud. Attach anti-rotation strap clip to left canopy release assembly.

NOTE

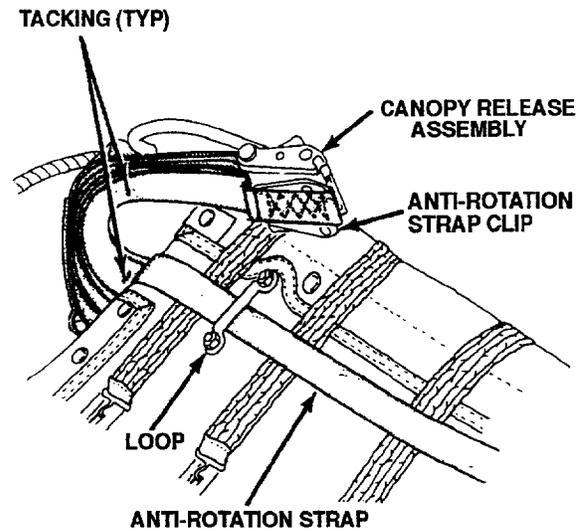
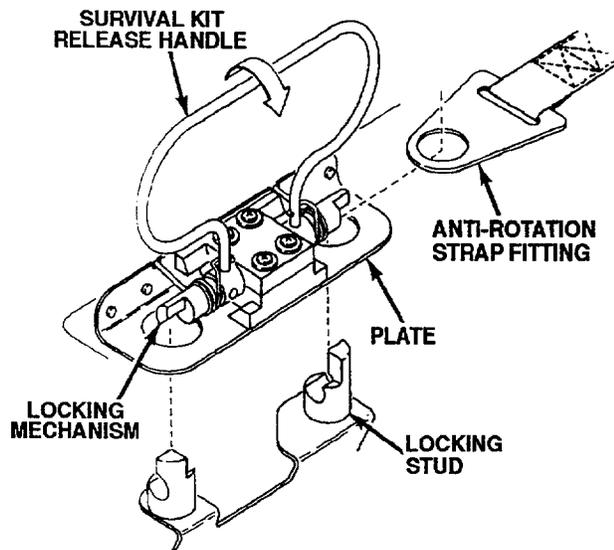
Loosening the three (3) captive screws aids in the installation of the survival kit and the prevention of inadvertent actuation.

h. Place anti-rotation strap fitting over upper stud between plate and locking mechanism, ensuring there are no twists in anti-rotation strap. Loosen the three captive screws 2 1/2 turns or 3 turns maximum (Figure 11). Lock survival kit release handle by lifting up. Ensure that anti-rotation strap fitting is located between plate and locking mechanism. Rotate release handle downward ensuring that locking mechanism engages locking studs (Figure 10). Tighten three captive screws (Figure 11) and apply torque seal to each screw (Figure 13). (QA)

i. Center anti-rotation strap on left riser assembly and tack where riser exits upper container and 4-in. from loop end of riser assembly. Tack with one turn of size FF thread, single and waxed. Tacking shall pass thru inside layer of webbing only.

j. Install new tamper seals on release handle and oxygen release cable.

k. Install backpad assembly on crew backpack per Paragraph 20.



6.2-7037

Figure 10. Anti-Rotation Strap Replacement

26. EMERGENCY OXYGEN SYSTEM ASSEMBLY REPLACEMENT.

Materials Required

Specification or Part Number	Nomenclature
F-900 Torque Seal (Color Optional)	Sealing Compound
—	Tamper Seal (2)

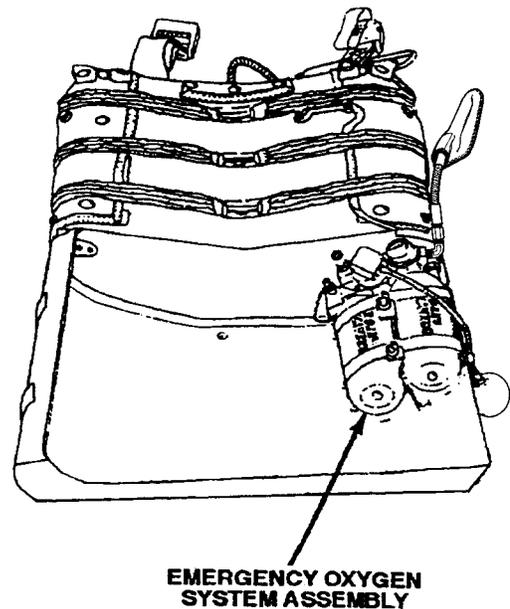
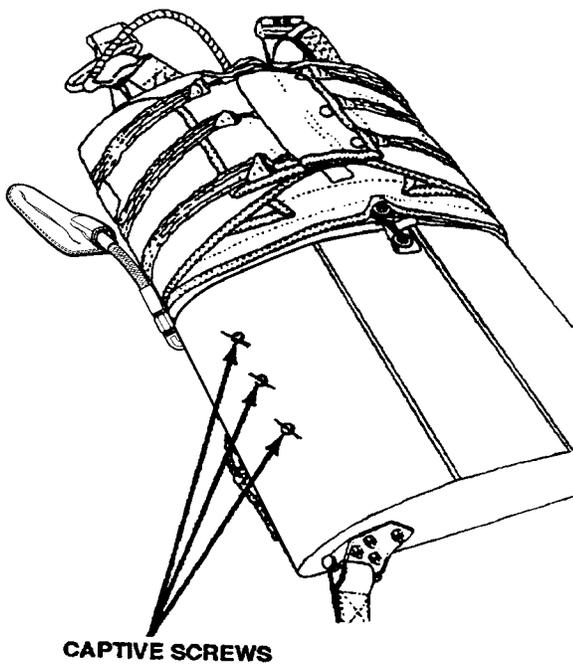
- a. Remove backpad assembly from crew backpack per Paragraph 19.
- b. Remove torque seal from three captive screws and tamper seals from kit release handle and oxygen release cable.
- c. Remove survival kit per Paragraph 23.
- d. Remove emergency oxygen system assembly hose stowage lanyard assembly from the upper container.
- e. Loosen three captive screws and remove emergency oxygen system assembly from lower container (Figure 11).
- f. Ensure replacement emergency oxygen system assembly has been inspected per NAVAIR 13-1-6.4.

- g. Place emergency oxygen system assembly in lower container. Align and install three captive screws in emergency oxygen system assembly thru lower container (Figure 11).

NOTE

Loosening the three (3) captive screws aids in the installation of the survival kit and the prevention of inadvertent actuation.

- h. Loosen the three captive screws 2 1/2 turns or 3 turns maximum (Figure 11).
- i. Attach emergency oxygen system assembly hose stowage lanyard assembly to the upper container. Install survival kit per Paragraph 24.
- j. Tighten the three captive screws (Figure 11) and apply torque seal to each screw (Figure 13). (QA)
- k. Attach yellow tamper seal, routed thru oxygen bottle bottom retaining band and survival kit release handle. (QA)
- l. Ensure tamper seal is pulled tightly to allow proper breakage when kit release handle and oxygen are pulled.
- m. Install cushion assembly on crew backpack per Paragraph 20.



6.2-7038

Figure 11. Emergency Oxygen System Assembly Replacement

27. KIT RELEASE HANDLE AND OXYGEN CABLE TAMPER SEAL REPLACEMENT.

Materials Required

Specification or Part Number	Nomenclature
—	Tamper Seal (1)

a. Deleted

b. Attach yellow tamper seal, routed thru bottom oxygen bottle retaining band and around survival kit release handle (Figure 12).

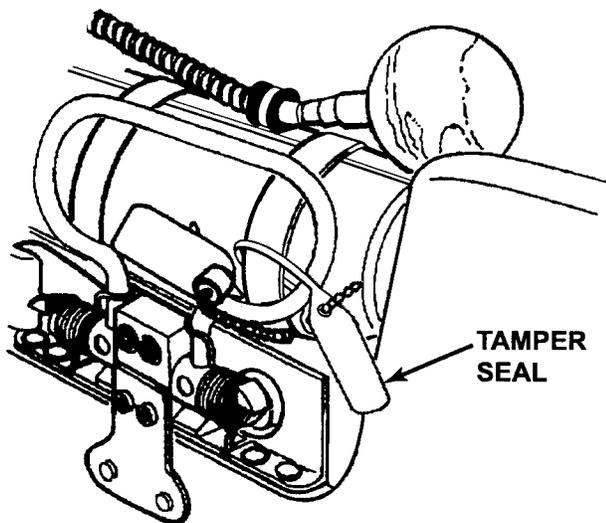
c. Ensure tamper seal is pulled tightly to allow proper breakage when kit release handle and oxygen cable are pulled.

28. TORQUE SEAL ON CAPTIVE SCREWS REPLACEMENT.

Materials Required

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

a. Apply one strip of torque seal from center of captive screw across washer and about 1/8-in. onto container assembly on each of the three captive screws on back of container assembly (Figure 13).



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Figure 12. Tamper Seal Replacement

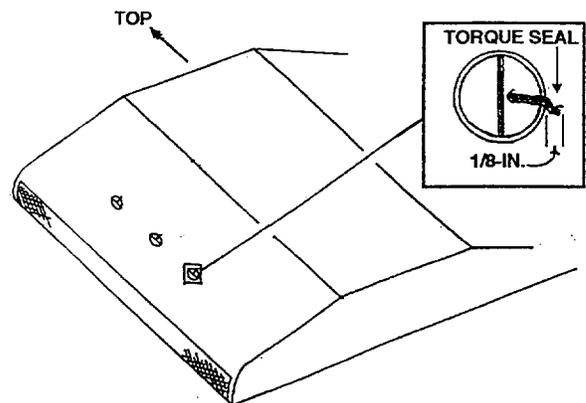


Figure 13. Torque Seal Replacement

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INTERMEDIATE AND DEPOT MAINTENANCE
PACKING PROCEDURES
A/P22P-11 EMERGENCY EGRESS CREW BACKPACK ASSEMBLY
PART NO. 123AB50510-3

List of Effective Work Package Pages

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Reference Material

Aviation - Crew Systems Manual, Inflatable Survival Equipment (Liferafts)	NAVAIR 13-1-6.1-1
Aviation - Crew Systems Manual, Seat Survival Kits (Oxygen Hoses and Non SKU Series Seat Kits) .	NAVAIR 13-1-6.3-1
Aviation - Crew Systems Manual, Oxygen Equipment	NAVAIR 13-1-6.4
Aviation - Crew Systems Manual, Rescue and Survival Equipment	NAVAIR 13-1-6.5
Intermediate and Depot Maintenance, Repair Procedures, A/P22P-11 Emergency Egress Crew Backpack Assembly	WP 025 03
Organizational, Intermediate and Depot Maintenance, Parachute Loft Requirements/Administration	WP 003 00
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Record of Applicable Technical Directives

None

1. GENERAL.

Materials Required

- a. This Work Package (WP) provides packing procedures 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 re-packed per the instructions contained in this WP.
- c. Quality Assurance (QA) points have been included in the rigging procedures. When a procedural step is followed by “(QA)” there is a quality assurance step 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 table, and helper on right side, when viewed from riser end of table.

Specification or Part Number	Nomenclature
22NKTM-02	Nut, Hex
MS20392-2C51	Pin, Cotter
V-T-295	Thread, Nylon Size E, Type I or II, Class A
V-T-295	Thread, Nylon Size FF, Type I or II, Class A

2. PRELIMINARY PROCEDURES.

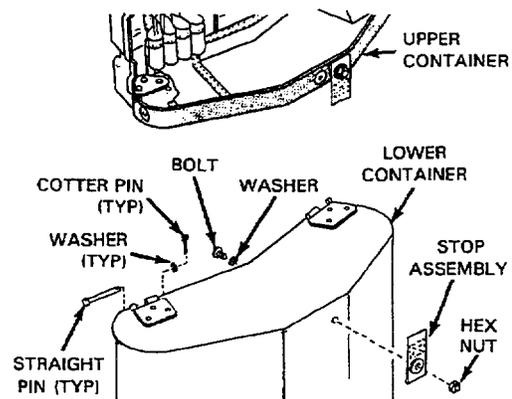
- F-900 Torque Seal (Color Optional) Sealing Compound
 - a. Ensure that all support equipment and materials required are available prior to starting.
 - b. Inspect packing tools for nicks, burrs, or sharp edges which may cause damage to the parachute assembly.
 - c. Count and record the number of packing tools.
 - d. Clean packing table.

Support Equipment Required

Part Number	Nomenclature
Refer to WP 005 00	Shot Bag (4)
Refer to WP 005 00	Long Bar
Refer to WP 005 00	Fid
Refer to WP 005 00	Packing Hook
—	Pullup Cord (4)
11-1-3512	Small Line Separator
Refer to WP 005 00	Temporary Locking Pin (3)
DDP-50	Scale, Spring
Refer to WP 005 00	Ripcord Pin Lock
A-A-1358	Wrench, 3/8-in.
—	Wrench 7/16-in.

3. REMOVAL OF LOWER CONTAINER.

- a. Remove lower container from upper container.
- b. Remove lower stop assembly hex nut, bolt and washer. Retain for re-assembly. Replace, if damaged (Figure 1).



6.2-7071

Figure 1. Removal of Lower Stop Assembly Hex Nut

- c. Remove survival kit lanyard from lanyard stowage pocket and remove cushion assembly.

d. Remove and discard tamper seal from release handle. Rotate survival kit release handle counter-clockwise and remove anti-rotation strap fitting from locking mechanism upper stud. Cut tackings and remove anti-rotation strap clip from left canopy release assembly (Figure 2).

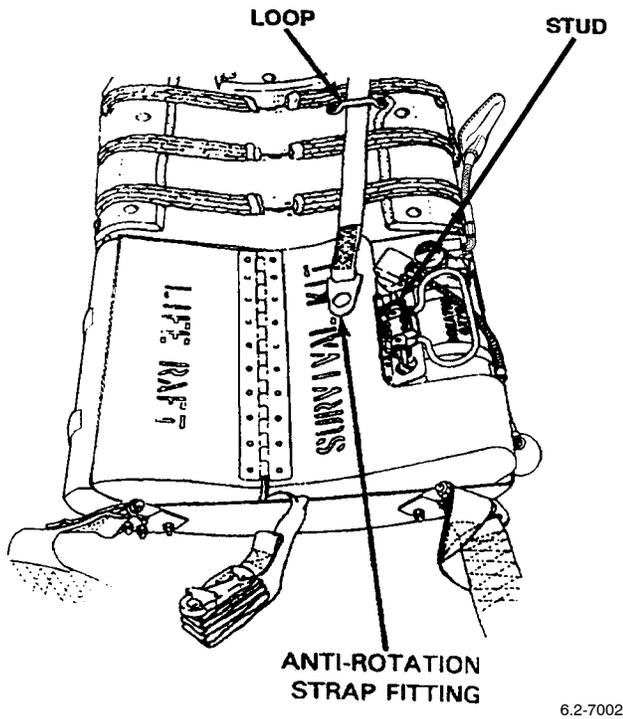


Figure 2. Rotate Survival Kit Release Handle

e. Remove survival kit from lower container. Inspect survival kit and contents per NAVAIR 13-1-6.5.

f. Remove emergency oxygen system assembly hose stowage lanyard assembly, and turn backpack assembly over on table ensuring oxygen regulator is protected.

CAUTION

When loosening three captive screws, hold oxygen bottle secure to prevent screws from stripping.

g. Remove torque seal from captive screws. Loosen three captive screws and remove emergency oxygen system assembly from lower container. Emergency oxygen system assembly shall be inspected per NAVAIR 13-1-6.4 (Figure 3).

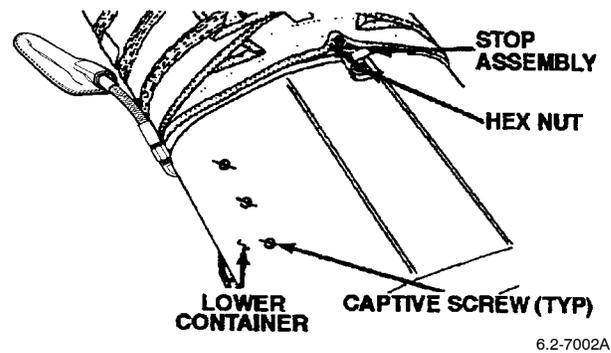


Figure 3. Loosen Three Captive Screws

h. Turn backpack assembly over. Remove lower stop assembly hex nut, bolt and washer. Retain for re-assembly. Replace, if damaged. (Figure 4).

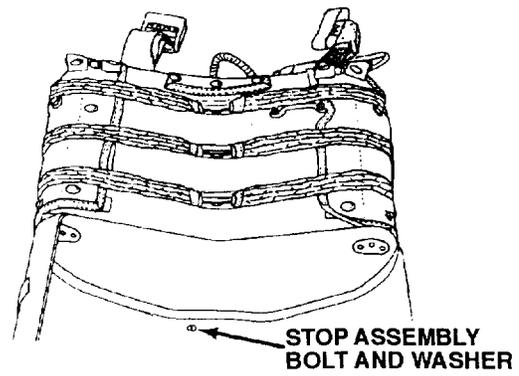


Figure 4. Turn Backpack Assembly Over

i. Turn backpack assembly over. Remove and discard two hinge assembly cotter pins. Remove hinge assembly straight pins and washers. Retain straight pins and washers for reassembly. Set lower container aside until packing is complete (Figure 5).

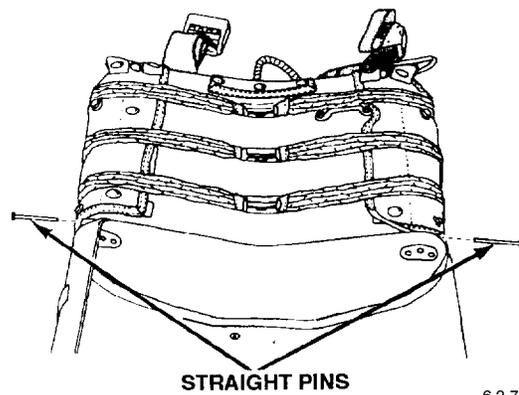


Figure 5. Remove and Discard Cotter Pins

4. LAYOUT OF RIGGED PARACHUTE ASSEMBLY.

- a. Completely open upper container and detach spring opening assemblies from flaps. Unsnap corner keeper fasteners.
- b. Remove canopy and suspension lines from upper container and stretch on table, untie clamp release lanyard.
- c. Remove connector link tackings and disengage riser fasteners from upper container.
- d. Locate gore 22 (nameplate gore) and place uppermost in center of packing table.
- e. Attach tension strap hook to canopy apex lines.
- f. Separate suspension lines into two equal groups with lines 1 thru 11 on packer's side and lines 12 thru 22 on helper's side. Grasp each group of lines, walk from skirt hem to connector links removing dips and twists between the two groups.
- g. Position upper container on packing table with inside facing up and ripcord grip retainer 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 (Figure 6).

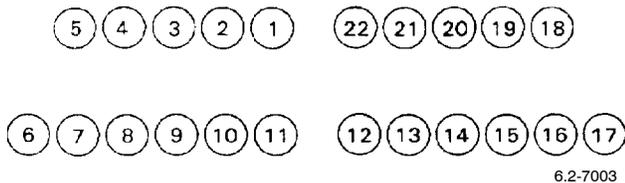


Figure 6. Suspension Line Arrangement and Orientation on Connector Links

- i. Insert tension hooks into connector links and insert hooks into packing table.
- j. Tension canopy using tension strap.

5. INSPECTION (SPECIAL).

- a. Maximum scheduled repack cycle is 224 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 Manufacturer'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	13
Cross-Connector Strap	(See Note 1)	(See Note 1)
Cushion	None	12
Lapbelt Assembly	None	15
Pilot Parachute		15
Pilot Parachute Connector Strap		12
Riser Assembly	None	15
Strap Assembly, Anti-Rotation	None	15

Note 1: Replace at Canopy Assembly replacement.

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

(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. SUSPENSION LINE CONTINUITY.

a. Inspect lines for dips, twists, and proper sequencing (Figure 6). (QA)

8. CANOPY ASSEMBLY.

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

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

c. Attachment of suspension 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 025 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)

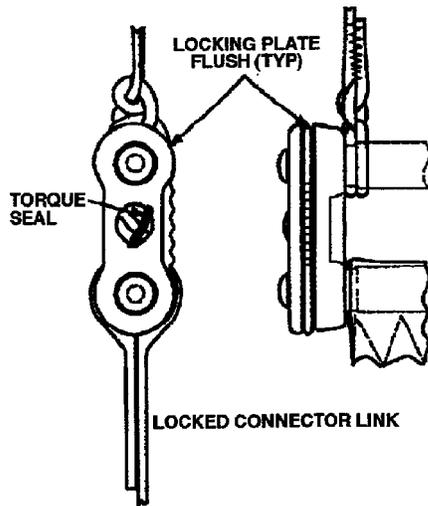


Figure 7. Torque Seal Unbroken

9. PILOT PARACHUTE AND CROSS-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 tackings (4 places) at bottom of the plate assembly.

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.

10. RISER AND CROSS-CONNECTOR STRAPS.

a. Webbing for contamination, rust at points of contact with metal parts, cuts, twists, fading, wear, fraying, burns, abrasions, and loose or broken stitching.

b. Cross-connector straps for proper attachment to connector links.

c. Snap fastener sockets for proper mating to container, easy release if pulled from connector link end of riser, damage, and security of attachment.

d. Ripcord grip retainer for corrosion, damage, and security of attachment.

e. Cross-connector straps for contamination, cuts, fraying, burns, and loose or broken stitching.

f. Shoulder harness fittings for corrosion, damage, and security of attachment.

11. CANOPY RELEASE ASSEMBLY.

a. Release body for broken locking and actuating lever springs, corrosion, dents, dirt, or sharp edges. Inspect the release lever left and right arms for cracks.

b. Presence and condition of torque seal on setscrew.

c. Measure torque of knurled actuating lever as follows:

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

(2) Rotate actuating lever to point just prior to contact with body. The allowable torque is 28 to 50 in-oz. (Figure 8). (QA)

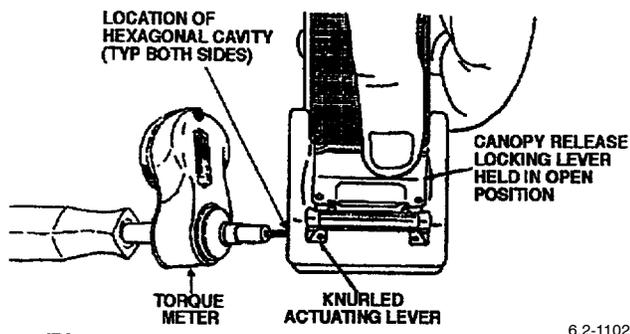


Figure 8. Measuring Torque of Actuating Lever

12. RIPCORD ASSEMBLY.

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

13. CUSHION ASSEMBLY.

- a. Snap fasteners for cracks, nicks, gouges, corrosion, and security of attachment.
- b. Fabric for seam separations, cuts, tears, loose or broken stitching, contamination, and deterioration.
- c. Backpad for security of attachment, Plastic tube for wear, security of attachment to retainer strap.

14. CONTAINER ASSEMBLY.

- a. Flap assemblies for security of attachment to the container.
- b. Grommets, cones, snap fasteners for security of attachment, cracks, corrosion, nicks, and gouges.
- c. Fabric areas, release lanyard, and suspension line hesitator loops for seam separations, loose or broken stitching, cuts, tears, contamination, and deterioration. Suspension line panel for separation from container.

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

e. Spring opening eyes (6) for security of attachment.

f. Hinges for corrosion, nicks, gouges, distortion, and security of attachment.

g. Pile tape fasteners for wear, and security of attachment.

h. Fiberglass for gouges, breaks, and cracks.

i. Anti-rotation strap for loose or broken stitching, fraying, contamination, cuts, and deterioration. Clip spring for corrosion and security of attachment.

15. LAPBELT ASSEMBLY.

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

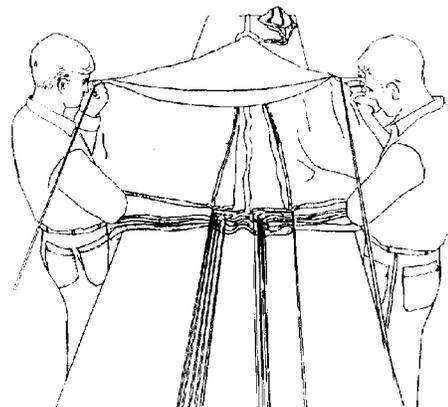
b. Lapbelt container fittings for corrosion, bends, burrs, wear, and cracks.

c. Release assemblies and adjusters for condition, corrosion, proper operation, and security of attachment.

16. PACKING.

17. WHIPPING AND FOLDING OF CANOPY.

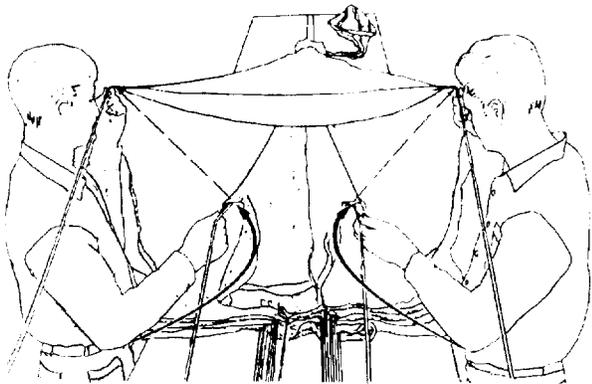
a. The packer and helper shall lift the suspension line on each side of nameplate gore up and out. The skirt hem between lines shall be taut so that canopy apex can be seen on inside. While holding suspension lines up, each man shall whip the gore hanging from line outwards to prepare canopy for folding (Figure 9).



6.2-7004A

Figure 9. Lift Suspension Lines on Each Side

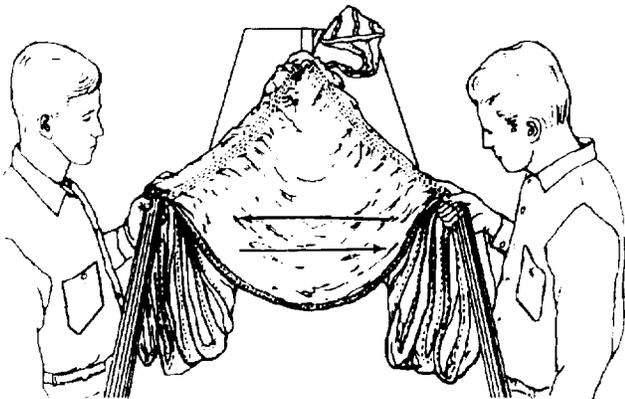
b. Draw next suspension line upwards to suspension line in hand, using a rapid, circular motion (Figure 10).



6.2-7004A

Figure 10. Draw Up Next Suspension Line

c. Continue whipping operation for all gores. Ensure radial seams are not overlapped by gore material. Move whipped gores rapidly back and forth across packing table (Figure 11).

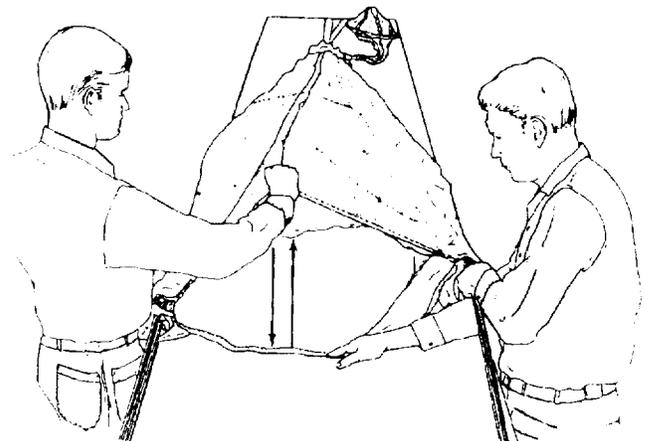


6.2-7004B

Figure 11. Continue Whipping Operation

d. The two groups of suspension lines shall be stretched to the edges of 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.

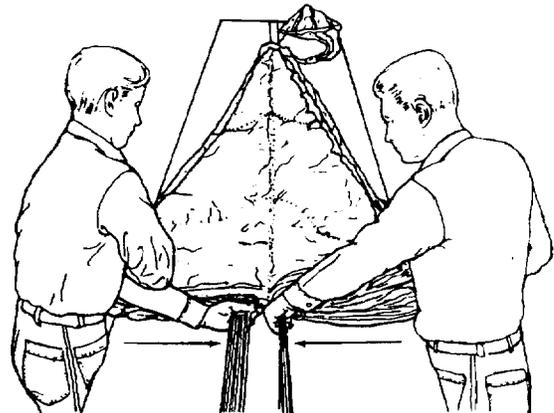
e. Packer shall flap top gore up and down at skirt hem center as helper holds bottom gore at skirt hem center (Figure 12).



6.2-7004C

Figure 12. Packer Shall Flap Top Gore

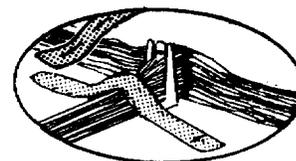
f. On signal, packer and helper shall draw their respective gores, at skirt hem centers, towards table edge while at same time bringing suspension line groups to center of packing table (Figure 13).



6.2-7005

Figure 13. On Signal Packer and Helper Draw Their Respective Gores to Center

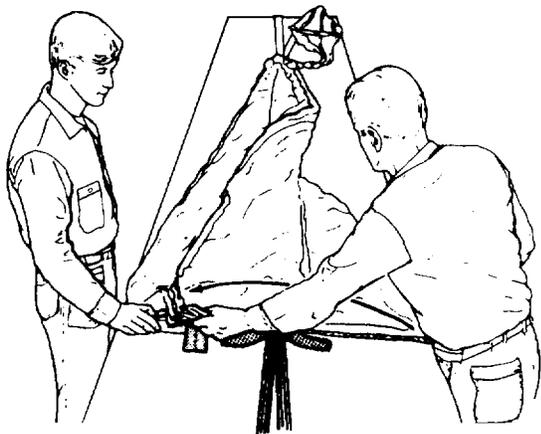
g. Insert suspension line groups into their respective slots in small line separator and place shot bag on lines. Packer shall place second shot bag across skirt hem on left side of suspension lines (Figure 14).



6.2-7005D

Figure 14. Insert Suspension Line Groups

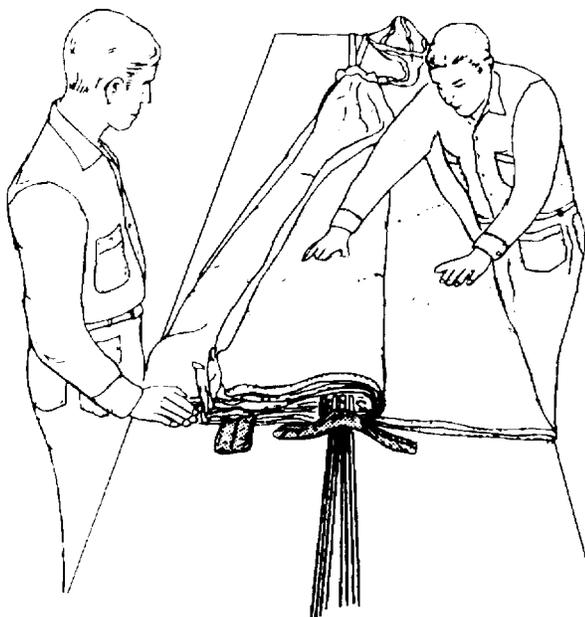
h. Helper shall rotate all gores as a group, except bottom gore, from helper's side to packer's side of packing table (Figure 15).



6.2-7005A

Figure 15. Helper Shall Rotate All Gores as a Group to Packer's Side

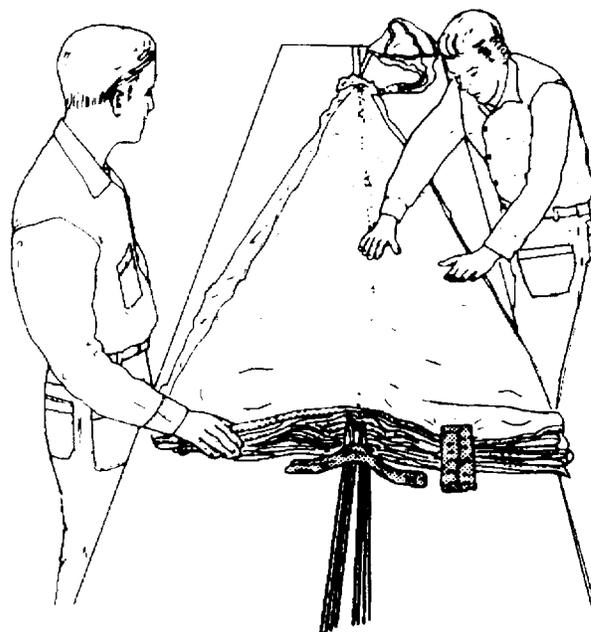
i. Helper shall straighten and smooth bottom gore on helper's side of packing table throughout its length to apex (Figure 16).



6.2-7005B

Figure 16. Helper Shall Straighten and Smooth Bottom Gore

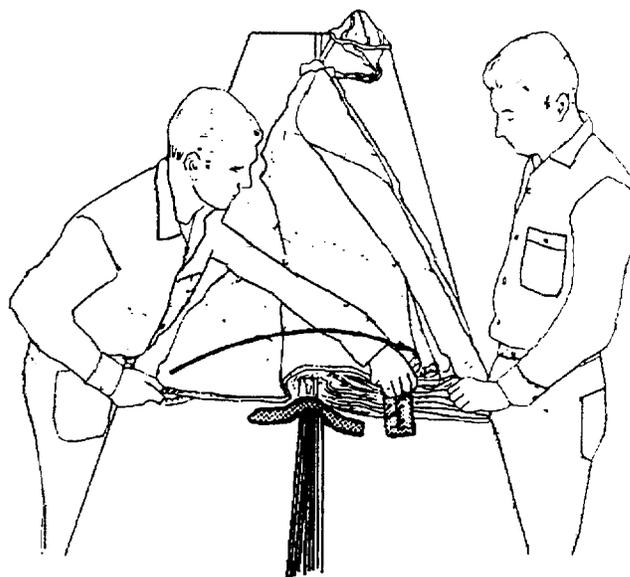
j. Packer shall return folded gores above shot bag to helper's side of packing table. Helper shall straighten and smooth each gore and place the shot bag on skirt hem (Figure 17).



6.2-7005C

Figure 17. Packer Shall Return Folder Gores Above Shot Bag

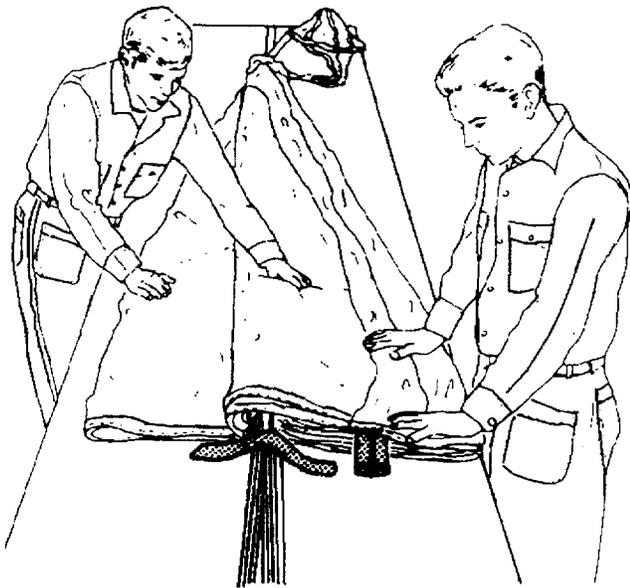
k. Packer shall rotate all gores as a group, except bottom gore, from packer's side to helper's side of packing table (Figure 18).



6.2-7006

Figure 18. Packer Shall Rotate all Gores as a Group to Helper's Side

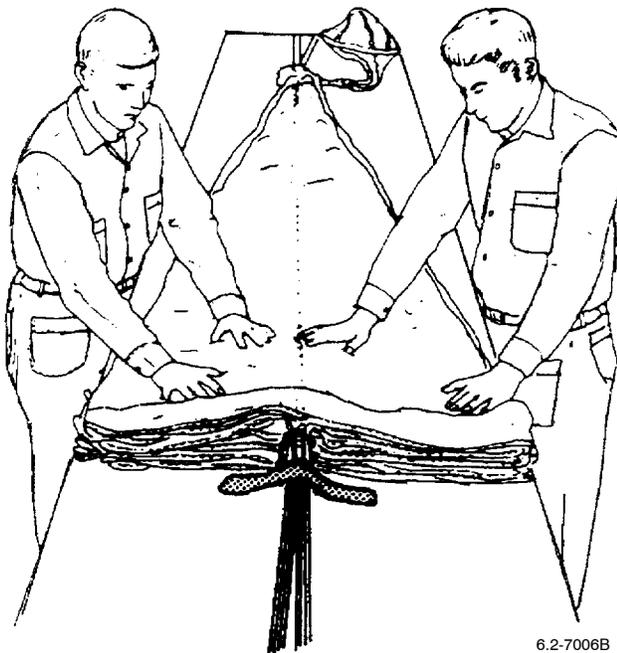
l. Packer shall straighten and smooth bottom gore on packer's side of packing table throughout its length to apex (Figure 19).



6.2-7006A

Figure 19. Packer Shall Straighten and Smooth Gore on Packers Side

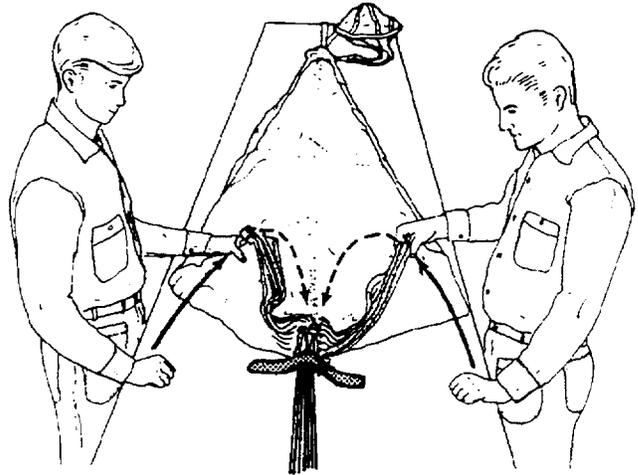
m. Helper shall return folded gores above shot bag to packer's side of packing table. Packer shall straighten and smooth each gore. Remove shot bag from canopy (Figure 20).



6.2-7006B

Figure 20. Helper Shall Return Folded Gores Above Shot Bag to Packer's Side

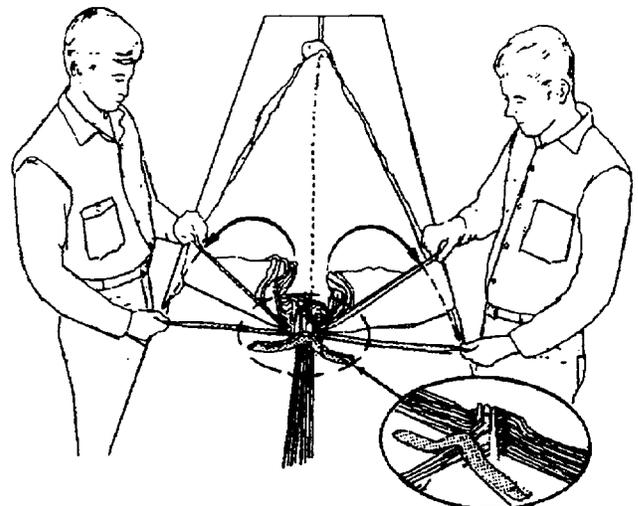
n. Packer and helper shall grasp skirt hem at mid-sections of gores and rotate towards suspension lines (Figure 21).



6.2-7006C

Figure 21. Packer and Helper shall Grasp Skirt Hem

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 22).



VIEW AFTER COUNTING AND ALIGNMENT

6.2-7007

Figure 22. Packer and Helper shall Grasp Bottom Most Gore

p. The canopy shall be folded by packer placing his hand on helper's side of skirt hem at a location that will allow the finished folds to be the width of the container, about 15-in. helper shall rotate gores toward the center of the canopy (Figure 23).

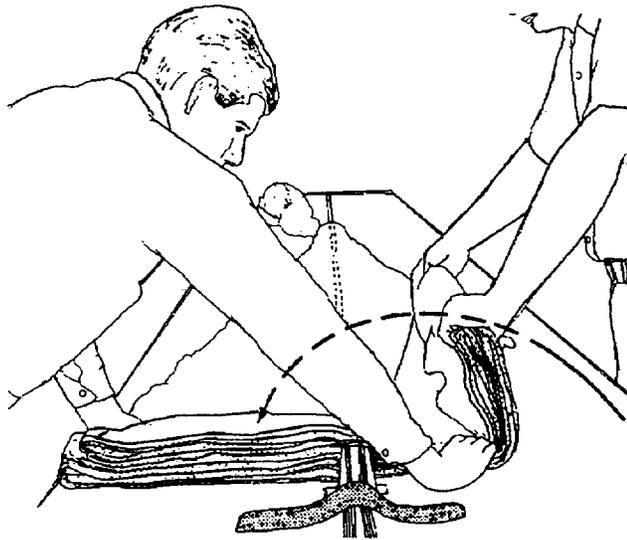


Figure 23. Canopy Shall Be Folded

6.2-7007A

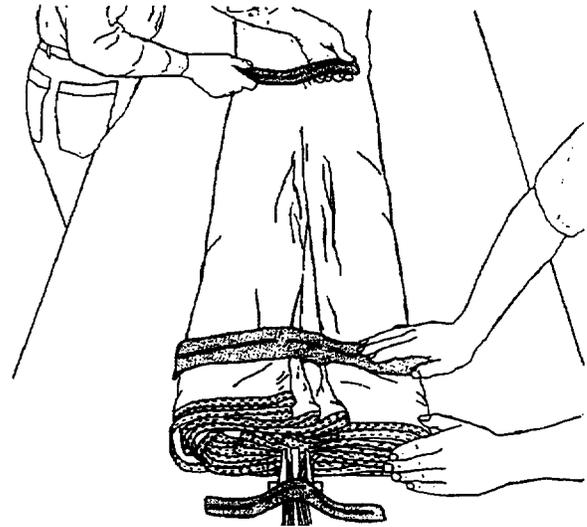


Figure 25. Place One Shot Bag Slightly Behind Skirt Hem

6.2-7007C

q. Helper shall place his hand on the packer's side of the skirt hem at a location that will allow the finished folds to be the width of the pack, about 15-in. the two groups of folded gores shall fold together. Note that canopy cannot be folded throughout entire length but breaks about two-thirds the distance to the apex (Figure 24).

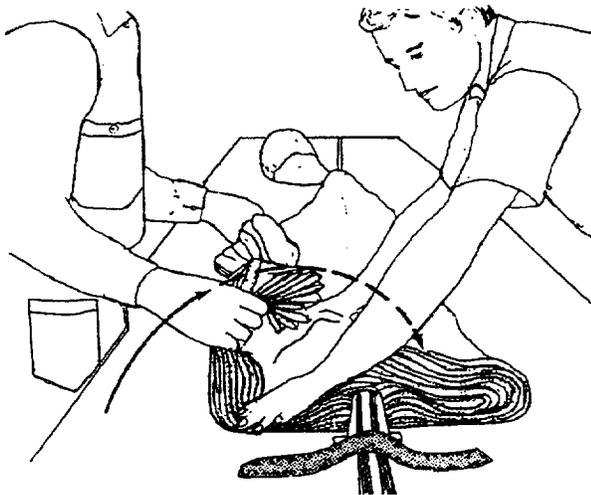


Figure 24. Helper Shall Place Hand on Packer's Side of Skirt Hem

6.2-7007B

18. RISER ASSEMBLY ATTACHMENT TO UPPER CONTAINER ASSEMBLY.

- a. Remove tension strap, and place pilot parachute on top of canopy. Remove tension hooks from connector links, then remove hooks from table.
- b. Position upper container on top of canopy release assemblies with inside facing up (Figure 26).

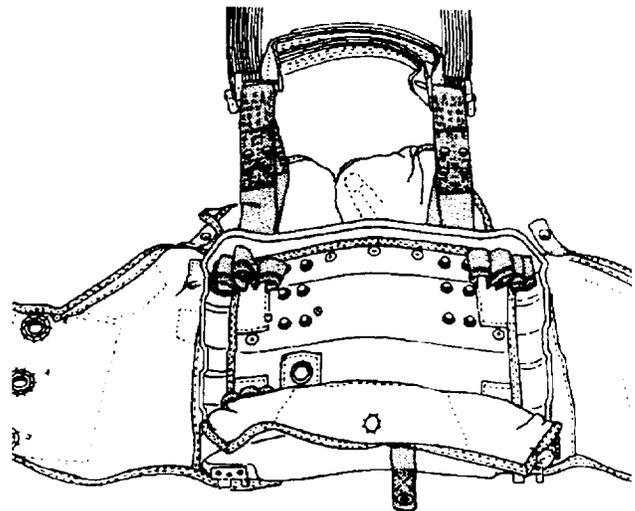


Figure 26. Position Upper Container

6.2-7008

r. Place one shot bag slightly behind skirt hem and another on middle of canopy. The folded gores shall be lapped to the width of the pack (Figure 25).

c. Slide upper container towards connector links. Fold each riser back and secure riser fasteners to top four fasteners on upper container (Figure 27).

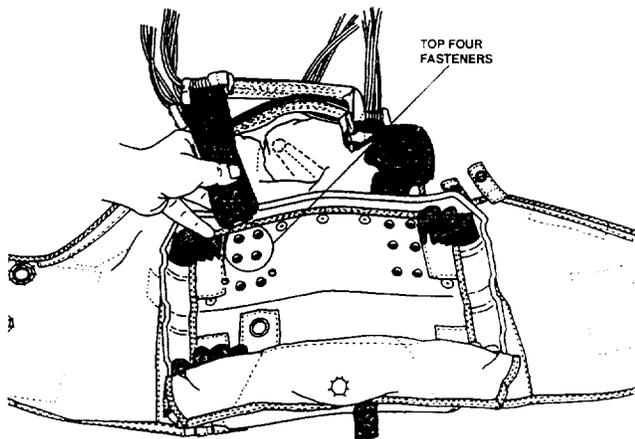


Figure 27. Secure Top Four Fasteners 6.2-7008A

19. STOWAGE OF SUSPENSION LINE.

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 connector links inside open upper container.

b. Ensure presence and security of clamp release lanyard tackings on top flap. Reeve clamp release lanyard thru lanyard guide grommet. Position 26-in. mark on lanyard over bar on bottom left connector link. Secure clamp release lanyard to bottom left connector link with a bowline knot followed by an overhand knot (Figure 28). (QA)

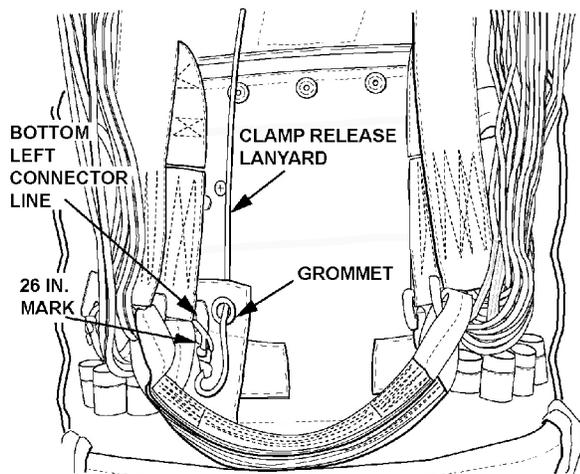


Figure 28. Ensure Presence and Security of Clamp 6.2-7010

c. Position cross-connector straps flat, position connector links, tie each pair of connector links on inboard side with one turn of size FF thread, single and waxed, passing thru fabric above first rib; tie off (Figure 29).

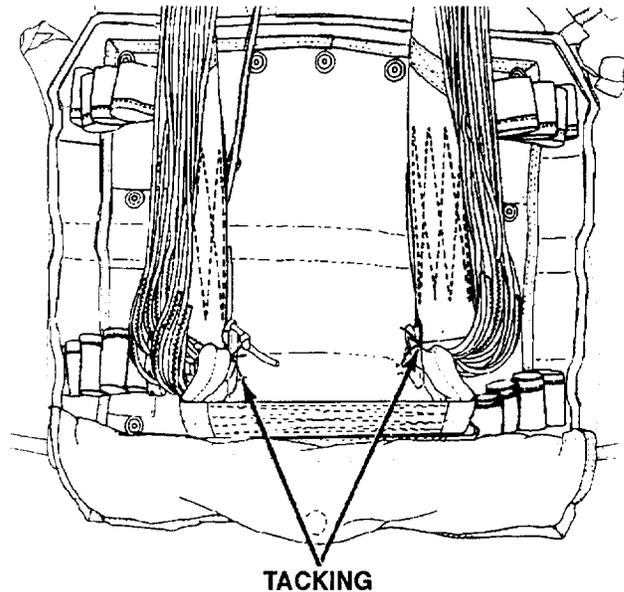


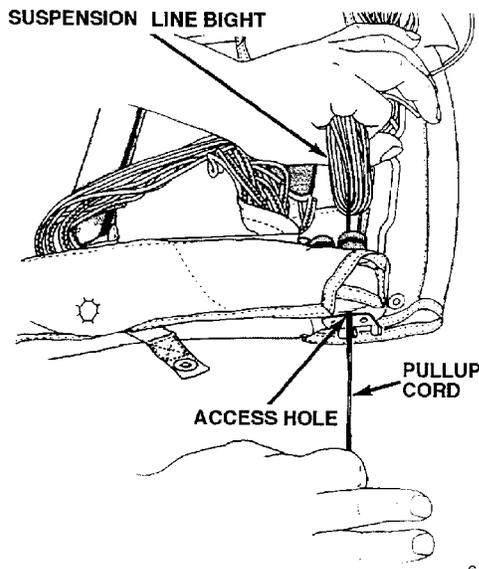
Figure 29. Position Cross-Connector Straps Flat 6.2-7010A

d. Packer shall grasp both groups of suspension lines in left hand about 16-in. from connector links to make first bight. 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 length to permit each bight to be formed.

WARNING

Rapid removal of pullup cord can cause damage to suspension lines.

e. Packer shall form first bight in suspension lines over hesitator loop farthest from canopy and closest to helper. Insert a waxed pullup cord thru first bight then thru access hole in upper container base and draw bight against pack lip at upper container base. Helper shall assist by holding pack steady and by holding completed bight while next bight is formed (Figure 30).

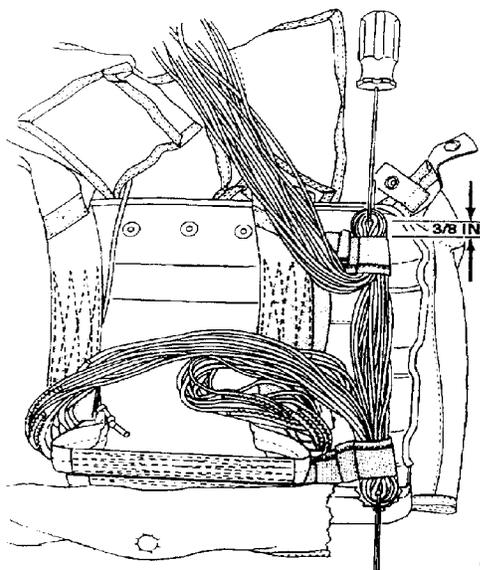


6.2-7010B

Figure 30. Packer Shall Form First Bight

f. Packer shall draw suspension lines and folded canopy toward upper container to form second bight. The second bight shall be drawn thru hesitator loop opposite first one. Packer shall engage hook in suspension lines and draw second bight thru hesitator loop.

g. After stowing second bight, there shall be 3/8-in. clearance between packing hook and hesitator loop (Figure 31).

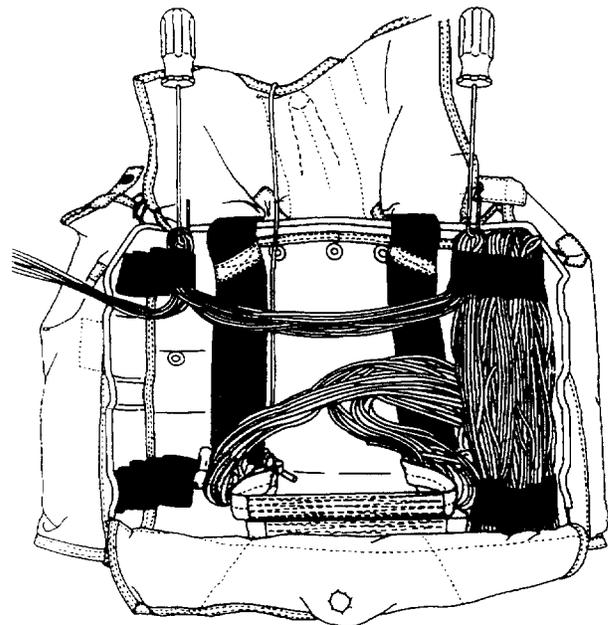


6.2-7011

Figure 31. Bight Shall Extend 3/8-in.

h. Third bight is formed in same manner as first stow. Bight is pulled thru hesitator loop next to first stow. Stow bights 4 thru 8 in the same manner as in preceding steps.

i. Cross suspension lines over to opposite side of upper container and stow bight 9 (Figure 32).



6.2-7011A

Figure 32. Cross Suspension Lines Over to Opposite Side

j. Continue stowing suspension line bights in hesitator loops 10 thru 16. As each stow is completed ensure lines are not rotated or loose and that there are no suspension lines left out of hesitator loops. Stowed bights at top of upper container shall extend 3/8-in. beyond hesitator loops and packing hook. Stowed bights at bottom of upper container shall extend to upper container base. Straighten all hesitator loops using a temporary locking pin.

k. When suspension lines are stowed in last hesitator loop, there shall be an excess of 22 ± 3 -in. of suspension lines between last bight and skirt hem (Figure 33). (QA)

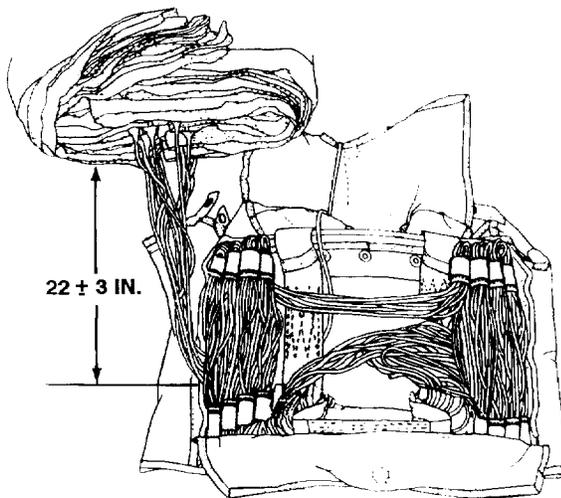


Figure 33. Last Bight 22 ± 3-in. of Line 6.2-7012

l. Place riser protector flaps on top of risers and suspension lines. Place access hole cover flaps over access holes at base of upper container (Figure 34).

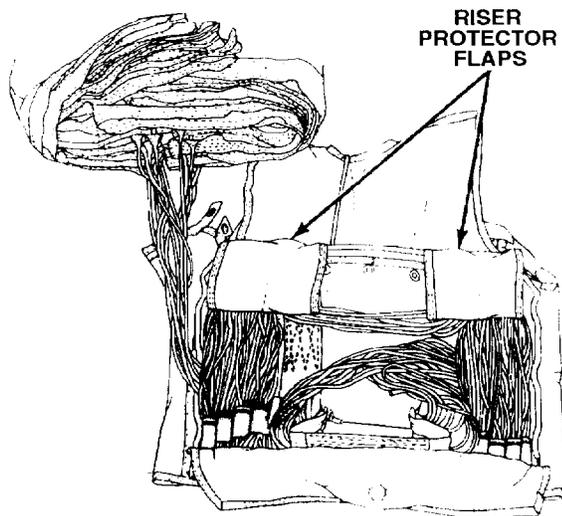


Figure 34. Placement of Protector Flaps 6.2-7012A

m. Remove small line separator. (QA)

20. STOWAGE OF CANOPY IN CONTAINER.

a. Nine folds shall be made when stowing canopy. Use the following illustration as a guide while stowing canopy (Figure 35).

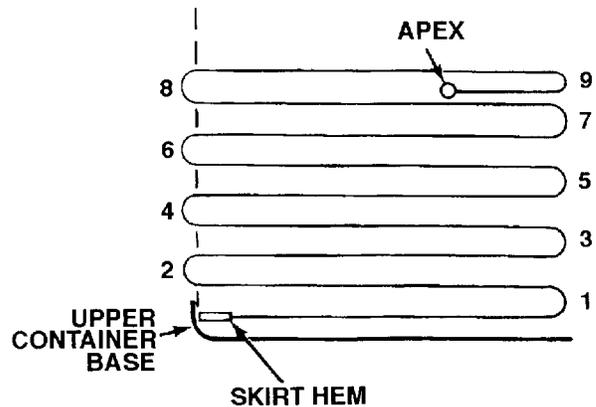


Figure 35. Nine Folds Shall Be Made 6.2-7013

b. Remove shot bag at canopy skirt hem. (QA)

c. Packer shall grasp canopy skirt hem on each side of suspension lines and draw canopy across upper container. Place excess suspension lines on center of upper container.

d. Skirt hem shall be placed at upper container base. Allow folded canopy to spread 1 1/2 ± 1/2-in. over sides of upper container (Figure 36).

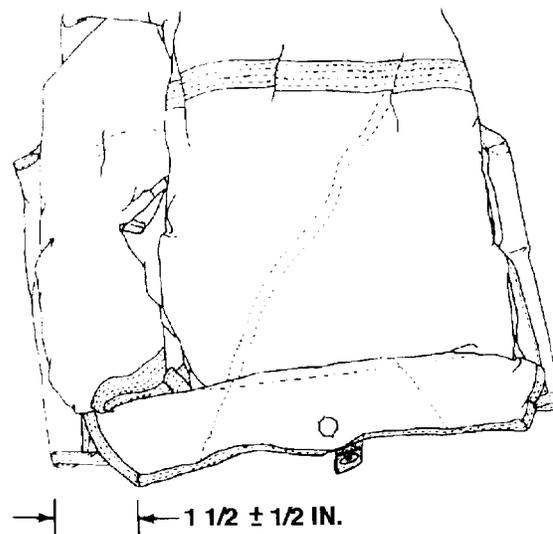
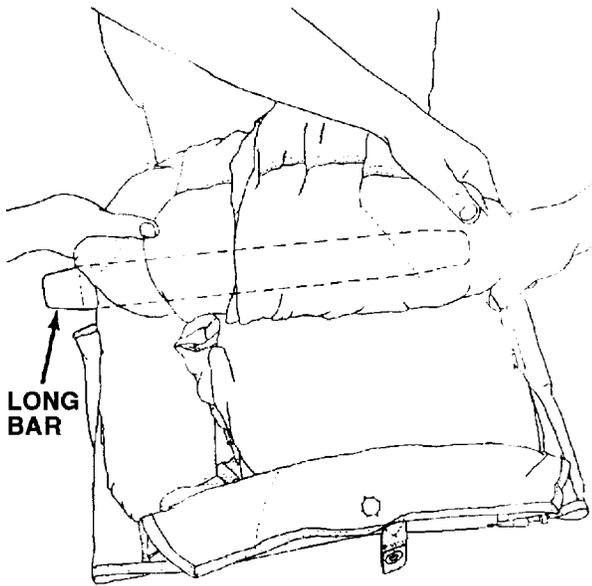


Figure 36. Placement of Skirt Hem 6.2-7013A

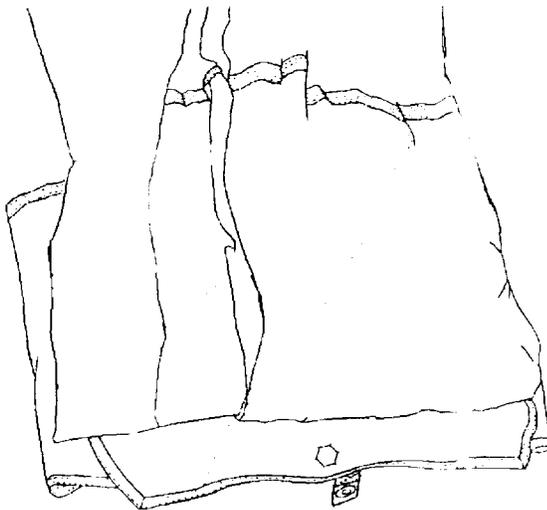
e. To make first and second folds, helper shall place long bar on top of canopy, parallel with top edge of upper container. Packer shall grasp canopy short of upper container length and draw it across folded canopy. Remove remaining shot bags as necessary (Figure 37).



6.2-7013B

Figure 37. Make First and Second Folds

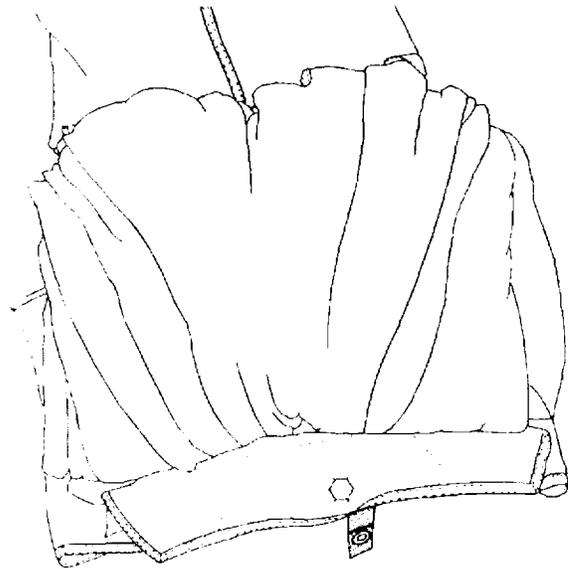
f. Second fold shall be positioned 1-in. beyond skirt hem. Sides of canopy shall spread $1\frac{1}{2} \pm \frac{1}{2}$ -in. over sides of upper container (Figure 38).



6.2-7013C

Figure 38. Position Second Fold 1-in. Beyond Skirt Hem

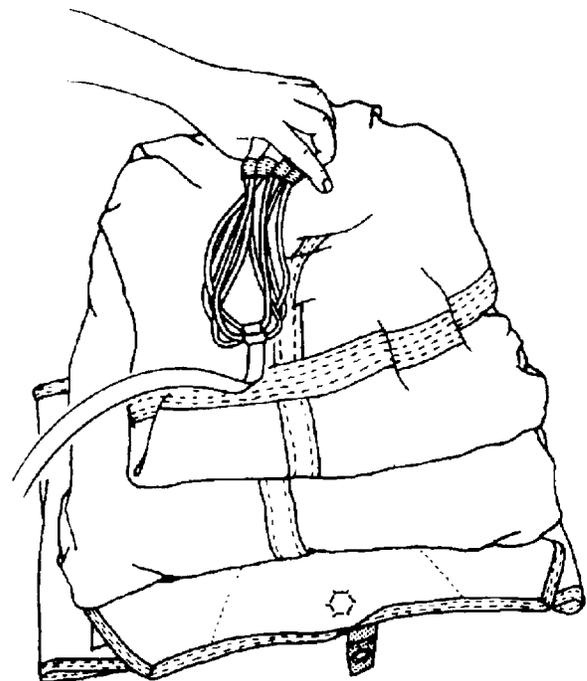
g. To make third and fourth folds, helper shall use long bar in same manner as with first and second folds. Fourth fold is extended to align with skirt hem (Figure 39).



6.2-7014

Figure 39. Make Third and Fourth Folds

h. Continue accordion folding remainder of canopy onto upper container, maintaining $1\frac{1}{2} \pm \frac{1}{2}$ -in. overlap on sides of upper container. As apex of canopy is drawn close to upper container, pilot parachute shall be placed back onto packing table (Figure 40).



6.2-7014A

Figure 40. Continue Accordion Folding

i. When insufficient canopy remains to continue folding, canopy shall be folded under 9 ± 2 -in. from apex (Figure 41).



Figure 41. Fold Under 9 ± 2 -in. From Apex 6.2-7014B

j. Folded under portion of canopy shall be positioned on top of canopy to form uppermost fold (Figure 42).

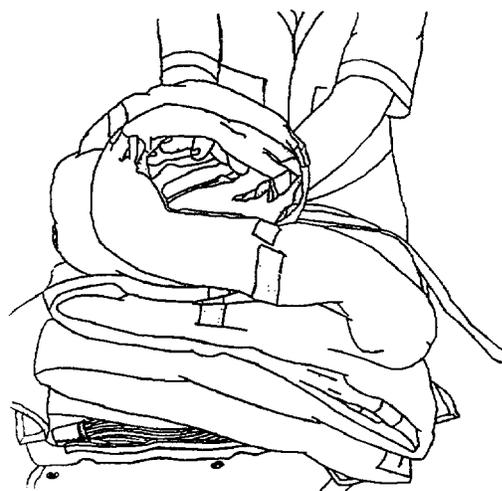


Figure 42. Positioning of Canopy to Form Uppermost Fold 6.2-7014C

k. Adjust canopy as required, to obtain neat and square folds. (QA)

l. Inspect pilot parachute connector strap for entanglements. Rotate upper container 90-degrees counterclockwise.

m. 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 43).

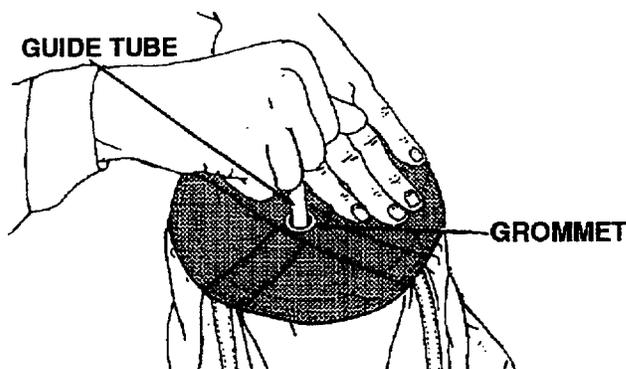


Figure 43. Position Pilot Parachute 6.2-7015

WARNING

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

n. Compress pilot parachute spring and remove guide tube from locking cone. Locking cone shall protrude thru grommet (Figure 44).

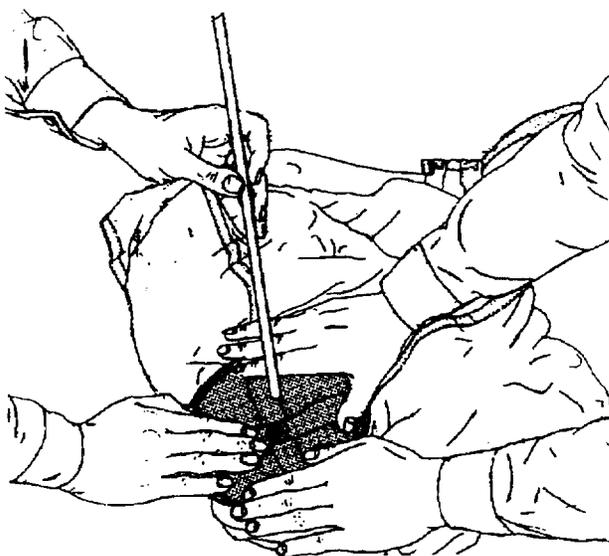
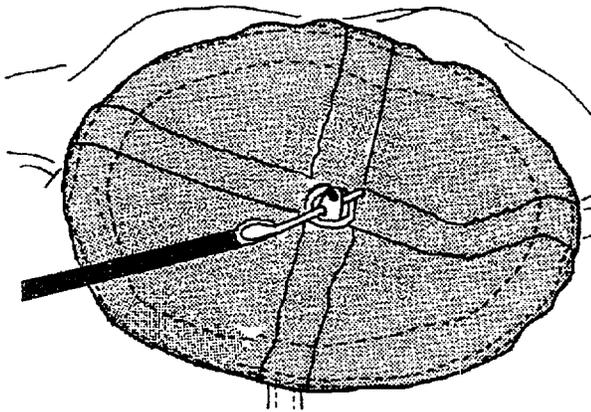


Figure 44. Compress Pilot Parachute 6.2-7015A

o. Insert temporary locking pin into bottom hole in cone to keep pilot parachute compressed. Pull all nylon cloth away from locking cone to ensure that no cloth shows thru grommet (Figure 45).



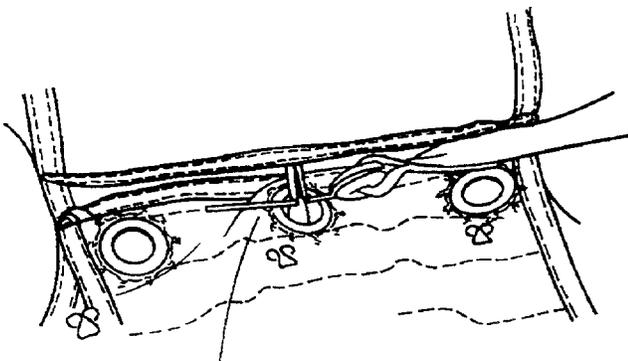
6.2-7015B

Figure 45. Insert Temporary Locking Pin

p. Position pilot parachute so locking cone is aligned with second grommet from top end of upper container. Pilot parachute temporary locking pin shall extend over top end flap. Tuck pilot parachute cloth under outer edge of crown. (QA)

21. CLOSING OF UPPER CONTAINER.

- a. Attach pull up cord to top hole in pilot parachute locking cone.
- b. Pass pull up cord attached to pilot parachute locking cone, thru center grommet on left side flap. Pull flap over pilot parachute and canopy. Secure cone with temporary pin (Figure 46).



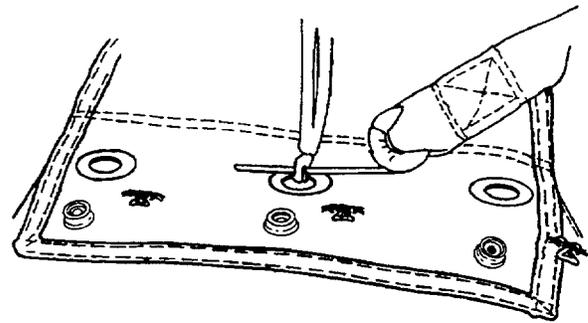
6.2-7016

Figure 46. Pass Pull Up Cord Thru Cone

NOTE

Do not remove temporary pin until step c.

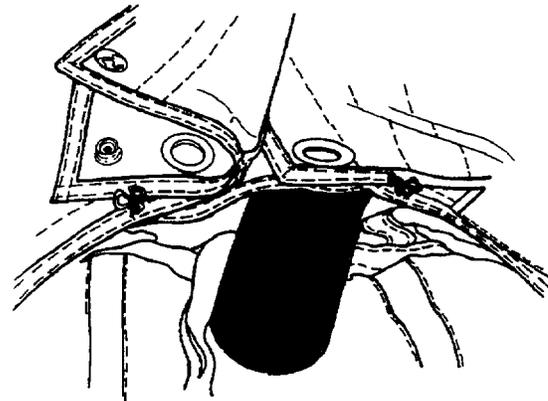
- c. Pass pull up cord thru center grommet on right side flap and insert temporary locking pin thru knot loop in pull up cord, NOT THRU CONE (Figure 47).



6.2-7016A

Figure 47. Pass Pull Up Cord Thru Center Grommet

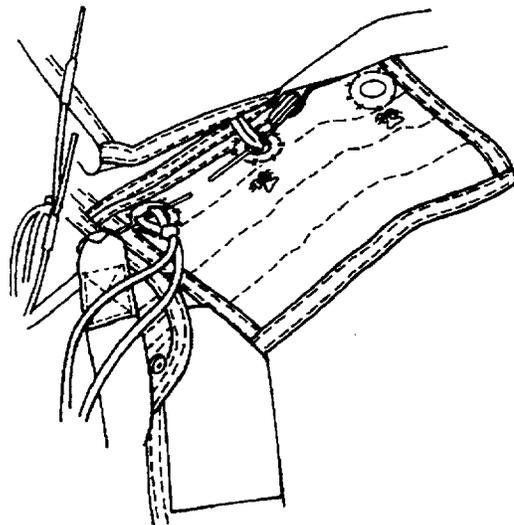
- d. Insert long bar under left side flap and on top of pilot parachute (Figure 48).



6.2-7016B

Figure 48. Insert Long Bar

- e. Pass pull up cord attached to top flap cone, thru top grommet on left side flap and pull cone on top flap thru grommet and insert temporary locking pin (Figure 49).



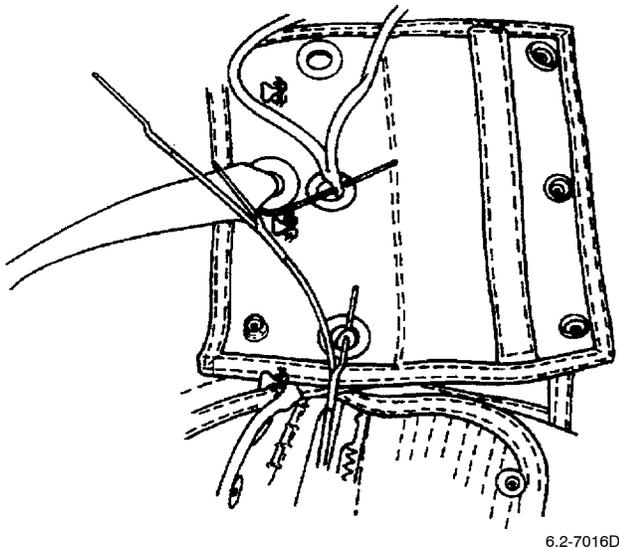
6.2-7016C

Figure 49. Insert Temporary Locking Pin

NOTE

Always maintain long bar under cone of top flap.

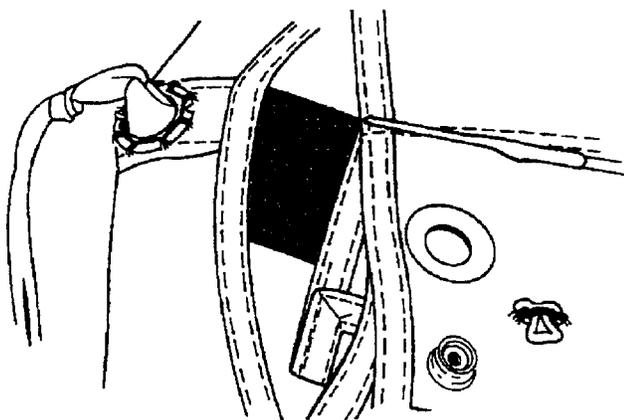
f. Pass pull up cord attached to top flap cone up thru grommet on top right side flap and pull cone thru grommet and insert top ripcord pin or ripcord assembly into cone. Remove pull up cord and remove long bar (Figure 50).



6.2-7016D

Figure 50. Pass Pull Up Cord Thru Top Cone

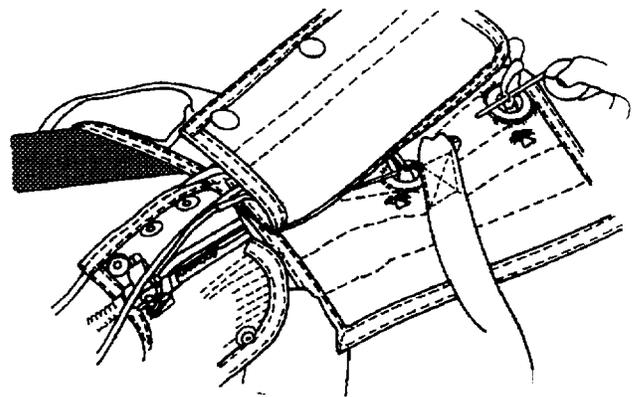
g. Insert long bar from top flap end under both side flaps and on top of pilot parachute (Figure 51).



6.2-7016E

Figure 51. Insert Long Bar Under Both Flaps

h. Pass pull up cord attached to bottom flap cone, thru left side flap and pull cone thru grommet and insert temporary pin (Figure 52).



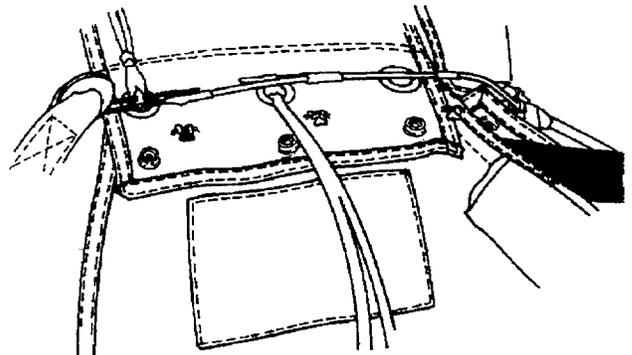
6.2-7016F

Figure 52. Pass Pull Up Cord Attached to Bottom Flap Cone

NOTE

Always maintain long bar under cone of bottom flap.

i. Pass pull up cord attached to bottom flap cone up thru grommet in bottom right side flap and pull cone thru grommet and insert temporary pin into cone. Remove long bar (Figure 53).



6.2-7016G

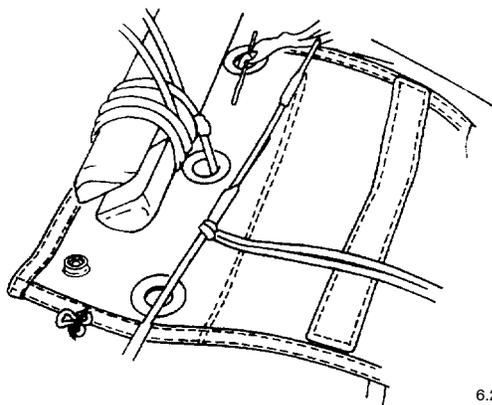
Figure 53. Pass Pull Up Cord Attached to Bottom Flap Cone

j. Push riser protector flaps firmly into upper container using fid.

k. Push corner flaps into upper container using packing fid inserted into pockets. Remove wrinkles and smooth corners of upper container using fid.

l. Using roll bar tool, wind around pull up cord attached to cone in pilot parachute and bring cone up to center grommet of right side flap. Remove temporary pin on top of left side flap and bring cone in pilot parachute thru grommet of right side flap (Figure 54).

m. Remove pilot parachute temporary locking pin. (QA) ■



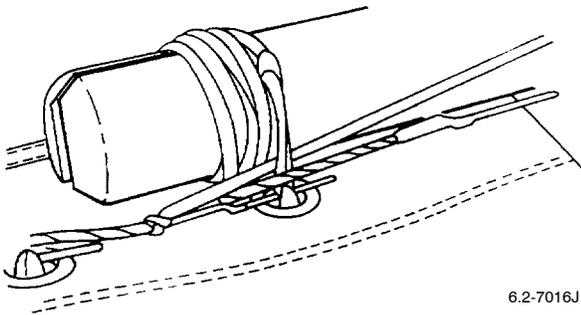
6.2-7016H

Figure 54. Using Roll Bar Wing Pull Up Cord



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

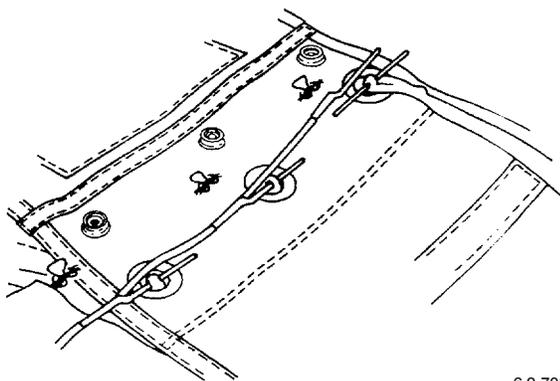
n. Insert ripcord pin thru cone. Remove pull up cord (Figure 55).



6.2-7016J

Figure 55. Insert Ripcord Pin

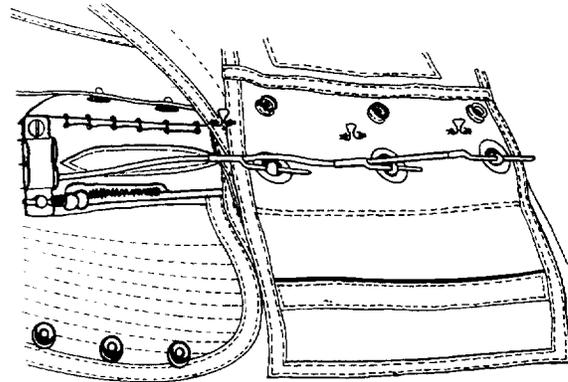
o. Remove temporary pin from bottom flap cone and insert ripcord pin (Figure 56).



6.2-7016K

Figure 56. Remove Temporary Pin

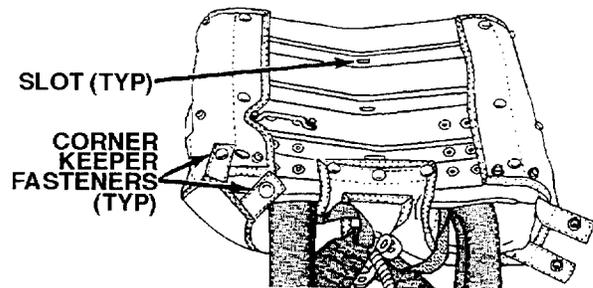
p. Remove pull up cord (Figure 57).



6.2-7016L

Figure 57. Remove Pull Up Cord

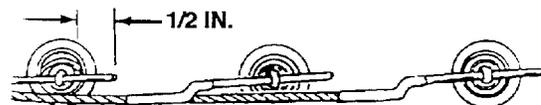
q. Turn upper container over and secure four corner keeper fasteners to container (Figure 58).



6.2-7017A

Figure 58. Turn Upper Container Over

r. Ensure ripcord pins are centered in locking cones so that shoulder of ripcord pin is not jammed against locking cone, but extends more than 1/2 in. beyond inside edge of grommet (Figure 59).



6.2-7017C

Figure 59. Ensure Locking Pins are Centered

s. Attach tabless ends of spring opening assemblies to slots in upper container at centerline.

t. Turn upper container over so ripcord pins face up.

u. Attach spring opening assemblies to eyes on flap assemblies.

22. RIPCORD PIN PULL CHECK.

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. Insert ripcord pin lock on bottom ripcord pin (Figure 60).

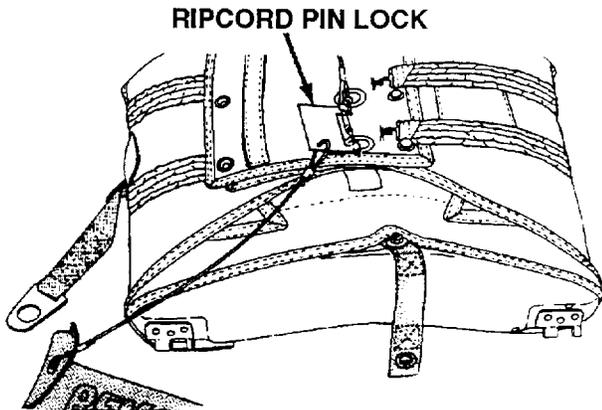


Figure 60. Insert Ripcord Pin Lock 6.2-7018

- b. Install ripcord grip into ripcord grip retainer.
- c. Attach a nylon pull cord loop to ripcord grip.
- d. Attach spring scale to nylon pull cord loop.
- e. Using the spring scale, apply a straight steady pull and remove ripcord grip from ripcord grip retainer. Allowable force is 15 ± 5 lbs. (QA)
- f. Reset spring scale. Apply a straight steady pull to ripcord grip until initial movement of bottom ripcord pin is observed. Maximum allowable force is 27 lbs. (QA)

WARNING

Ripcord pin lock must be removed.

- g. Remove ripcord pin lock. (QA)
- h. If necessary reposition ripcord pins so they are centered in locking cones so that shoulder of ripcord pin is not jammed against locking cone, but extends more than 1/2-in. beyond inside edge of grommet.

- i. Install ripcord housing clip into webbing loop attached to left riser assembly (Figure 61).

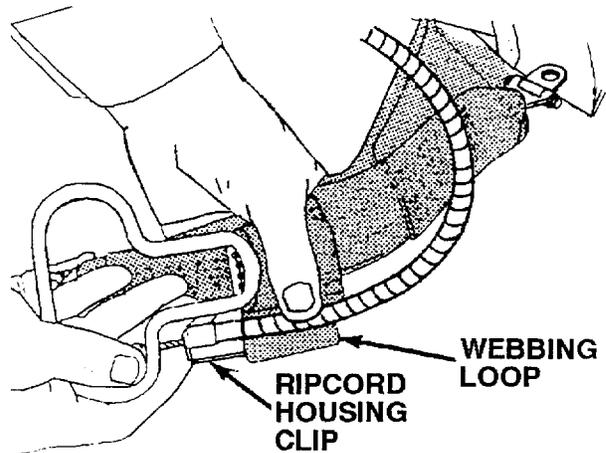


Figure 61. Install Ripcord Housing Clip 6.2-7018A

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

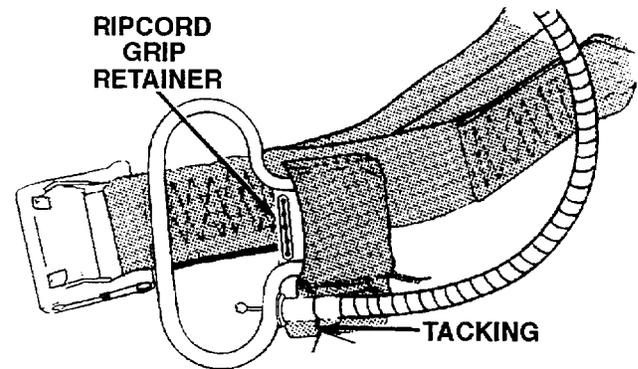


Figure 62. Insert Ripcord Grip 6.2-7018B

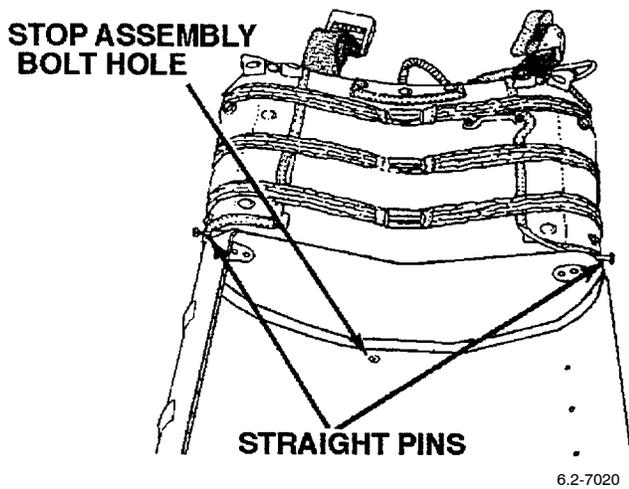
- l. Snap ripcord pin protector flap and baseplate protector flap closed.

23. ATTACHMENT OF LOWER CONTAINER.

NOTE

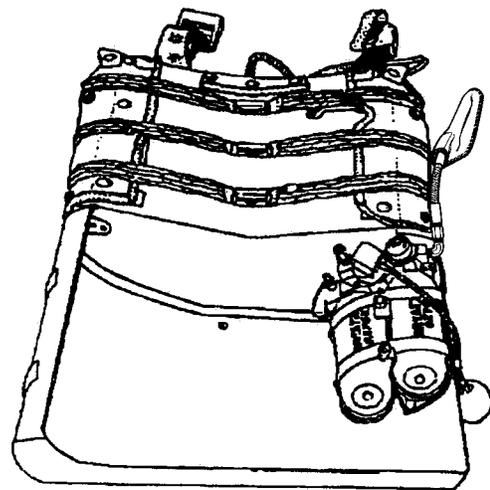
Tie off all tackings with a surgeon's knot topped with a square knot, followed by a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. Align upper container and lower container hinges. Install straight pins and washers in hinge assemblies, ensuring heads of straight pins face outboard (Figure 63).



6.2-7020

Figure 63. Align Upper Container and Lower Container Hinges

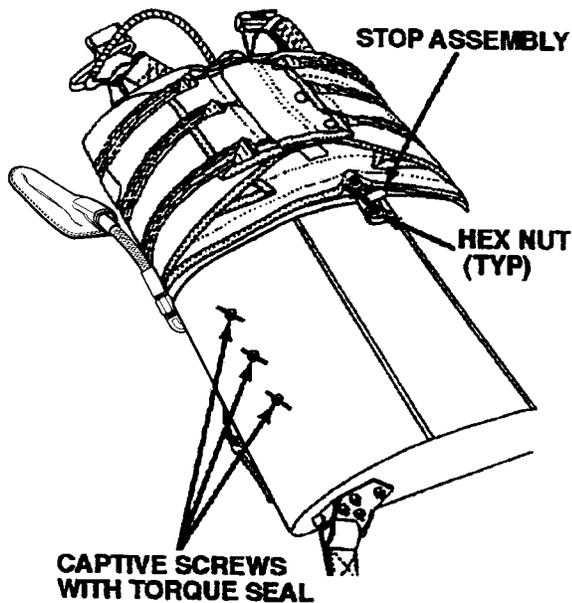


6.2-7020B

Figure 65. Ensure Emergency Oxygen Has Been Inspected

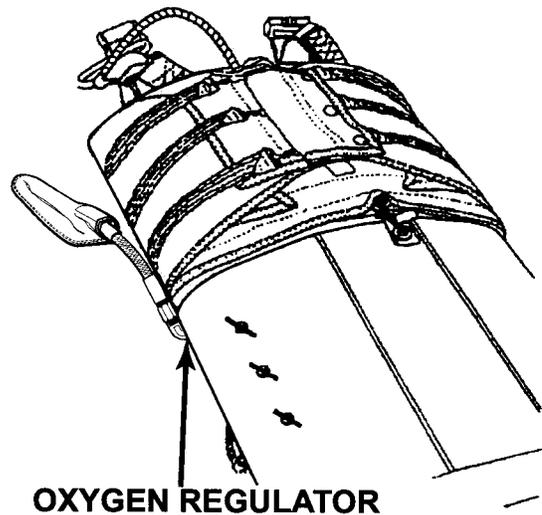
- b. Install washers and new cotter pins. (QA)
- c. Install lower stop assembly bolt and washer. Turn backpack assembly over. Install hex nut (Figure 64). (QA)

- e. Attach emergency oxygen system hose stowage lanyard assembly to pile fastener tape on upper container (Figure 66).



6.2-7020A

Figure 64. Install Lower Stop Assembly Bolt and Washer



6.2-7020C

Figure 66. Attach Emergency Oxygen Hose

- d. Ensure emergency oxygen system assembly has been inspected per NAVAIR 13-1-6.4. Place emergency oxygen system assembly in lower container. Align and install three captive screws in emergency oxygen system assembly thru lower container (Figure 65).

- f. Ensure survival kit and contents have been inspected per NAVAIR 13-1-6.1-1, NAVAIR 13-1-6.3-1, and NAVAIR 13-1-6.5). Place survival kit in lower container.

NOTE

Loosening the three (3) captive screws aids in the installation of the survival kit and the prevention of inadvertent actuation.

g. After installing oxygen bottles, adjust two lateral bands so they are touching lower container. Loosen the three captive screws 2 1/2 turns or 3 turns maximum (Figure 64). Ensure that survival kit lanyard is not trapped between lower container and survival kit and that lanyard exits at bottom of lower container.

h. Route anti-rotation strap thru loop. place anti-rotation strap fitting over upper stud between plate and locking mechanism ensuring there are no twists in anti-rotation strap. Lock survival kit release handle by lifting up. Ensure that anti-rotation strap fitting is located between plate and locking mechanism. Rotate release handle downward ensuring that locking mechanism engages locking studs (Figure 67). Tighten three captive screws and apply torque seal to each screw (Figure 64). (QA)

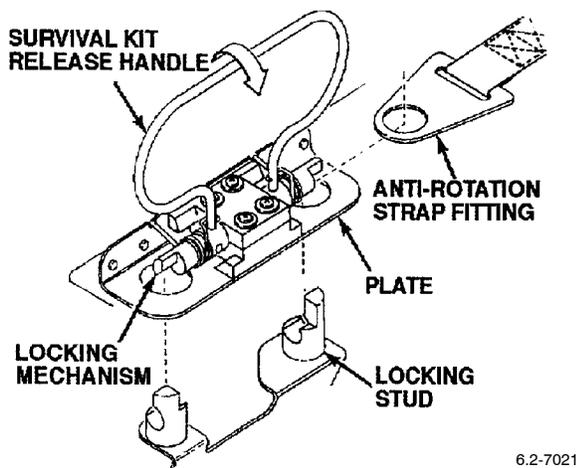


Figure 67. Route Anti-Rotation Strap Thru Loop

i. Attach yellow tamper seal, routed thru oxygen bottle bottom retaining band and survival kit release handle (Figure 68).

j. Ensure tamper seal is pulled tightly to allow proper breakage when kit release handle and oxygen cable are pulled.

k. Install anti-rotation strap clip to left canopy release assembly ensuring strap is free of twists. Center anti-rotation strap on left riser assembly and tack where riser exits upper container and 4-in. from loop end of riser assembly. Tack with one turn of size FF thread, single and waxed. Tacking shall pass thru inside layer of webbing only (Figure 69). (QA)

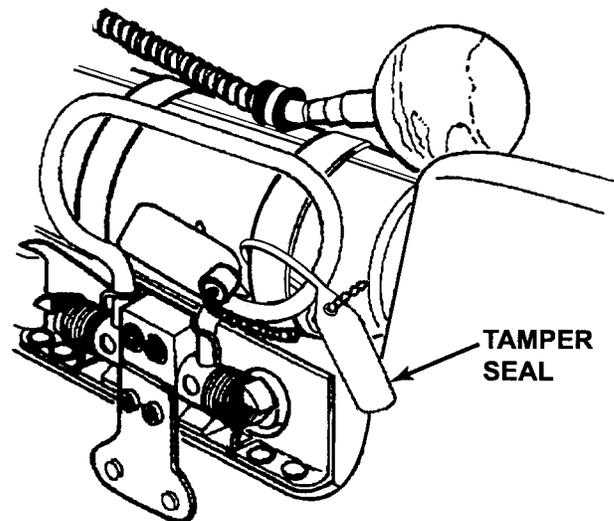


Figure 68. Tamper Seal Replacement

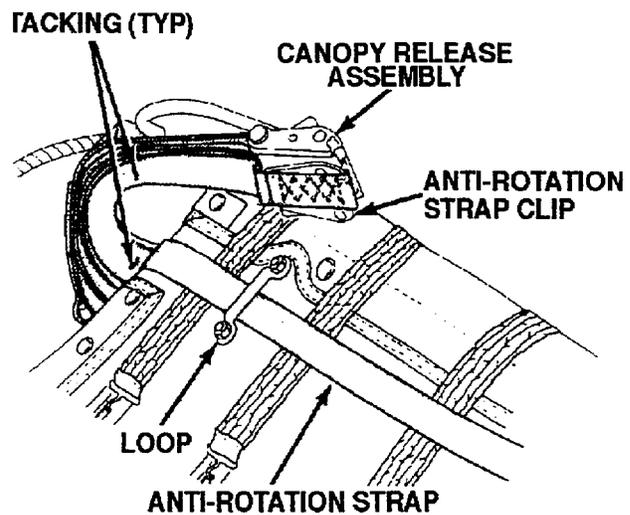


Figure 69. Install Anti-Rotation Strap Clip

l. Install cushion assembly on crew backpack. Accordion fold and insert survival kit lanyard in lanyard stowage pocket. Ensure snap hook is completely inside lanyard stowage pocket, and end loop of lanyard is exposed outside lanyard stowage pocket (Figure 70).

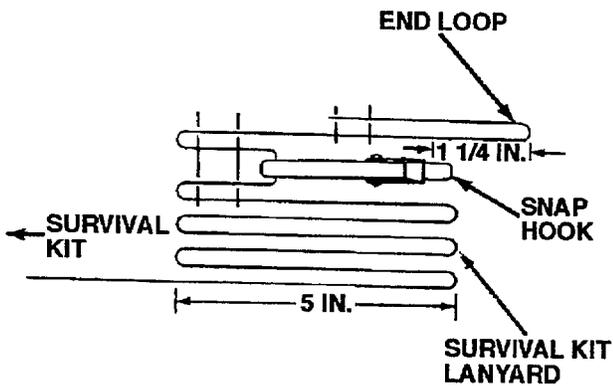
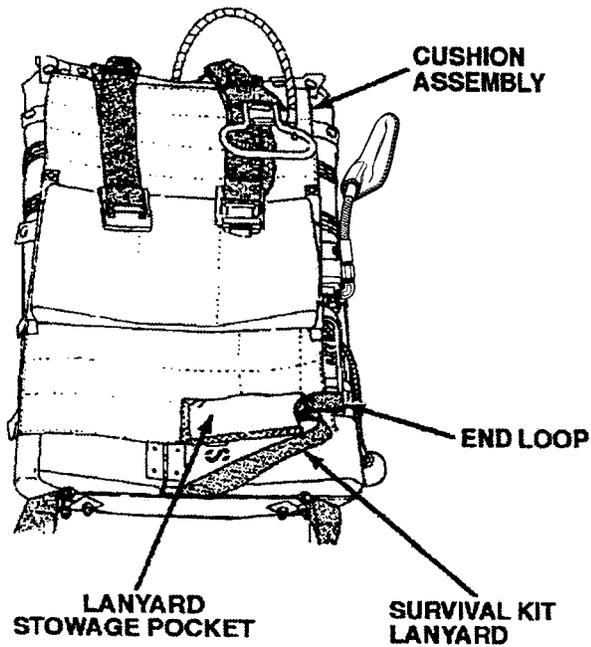


Figure 70. Install Cushion Assembly

24. FINAL CHECKOUT.

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

INTERMEDIATE AND DEPOT MAINTENANCE

REPAIR PROCEDURES

A/P22P-11 EMERGENCY EGRESS CREW BACKPACK ASSEMBLY

PART NO. 123AB50510-3

List of Effective Work Package Pages

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Reference Material

Aviation - Crew Systems Manual, Inflatable Survival Equipment (Liferafts)	NAVAIR 13-1-6.1-1
Aviation - Crew Systems Manual, Seat Survival Kits (Oxygen Hoses and Non SKU Series Seat Kits)	. . . . .	NAVAIR 13-1-6.3-1
Aviation - Crew Systems Manual, Oxygen Equipment	. . . . .	NAVAIR 13-1-6.4
Aviation - Crew Systems Manual, Rescue and Survival Equipment	. . . . .	NAVAIR 13-1-6.5
Common Repairs	. . . . .	WP 004 00
Intermediate and Depot Maintenance Packing Procedures A/P22P-11 Emergency Egress Crew Backpack Assembly	. . . . .	WP 025 02
Introduction, Organizational, Intermediate and Depot Maintenance with Illustrated Parts Breakdowns		
Emergency Personnel and Drogue Parachute Systems	. . . . .	WP 002 00
Organizational Maintenance Repair Procedures, A/P22P-11 Emergency Egress Crew Backpack Assembly	WP 025 01
Parachute Loft Requirements/Administration	WP 003 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 (OPNAV 4790/101). For common repairs refer to WP 004 00.

2. PILOT PARACHUTE AND CONNECTOR STRAP REPAIRS.

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

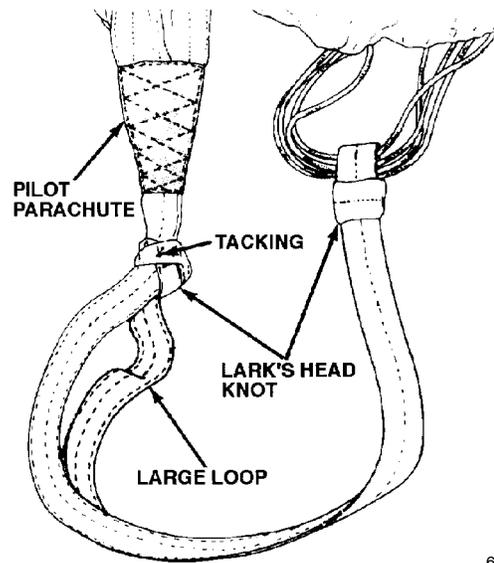
Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

- a. Inspect replacement pilot parachute per WP 025 02.
- b. Remove tacking at Lark's head knot and then remove pilot parachute.
- c. Pass large loop end of connector strap thru loop in pilot parachute. Pass entire pilot parachute thru large loop of connector strap; pull tight forming a Lark's head knot (Figure 1).
- d. Tack Lark's head knot at pilot parachute 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. Make proper entries on Parachute Record (OPNAV 4790/101). (QA)

4. REPLACEMENT OF CONNECTOR STRAP.

Materials Required

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



6.2-7043

Figure 1. Pilot Parachute and Connector Strap Replacement

NOTE

For Double "L" Connector Link, refer to Paragraph 38 for disassembly, assembly, and inspection instructions.

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 and pilot parachute connector strap.
- b. Inspect replacement connector strap per WP 025 02.
- c. Measure length of pilot parachute connector strap. Proper length is 23 1/2 ± 1/2-in. unattached.
- d. Pass small loop end of connector strap thru and around canopy apex lines. Pass large loop end of connector strap thru small loop end; pull tight forming a Lark's head knot (Figure 1).
- e. Pass large loop end of connector strap thru loop in pilot parachute. Pass entire pilot parachute thru large loop of connector strap; pull tight forming a Lark's head knot (Figure 1).
- f. Tack Lark's head knot at pilot parachute with two turns of size 6 thread, single and waxed; tie off (Figure 1). (QA)
- g. Mark date placed in service on connector strap per WP 004 00. Make proper entries on Parachute Record (OPNAV 4790/101). (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 tacking or completely remove loose tacking.
- b. Pull Lark's head knot tight.
- c. Tack Lark's head knot at pilot parachute with two turns of size 6 thread, single and waxed; tie off (Figure 1). (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 tacking or completely remove loose tacking.

NOTE

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

- b. Locate the four holes in 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.

8. REPLACEMENT OF CANOPY ASSEMBLY.

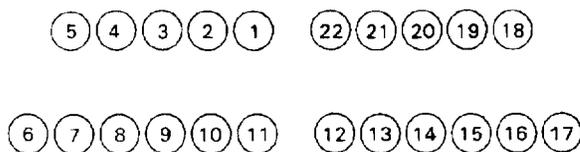
Materials Required

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

NOTE

For Double "L" Connector Link, refer to Paragraph 38 for disassembly, assembly, and inspection instructions.

- a. Remove pilot parachute and connector strap from apex lines Paragraphs 3 and 4. Retain for reinstallation.
- b. Remove connector link yoke and plate assemblies.
- c. Remove connector links from riser and connector straps then reinstall yoke and plate assemblies.
- d. Dispose of canopy assembly per current supply directives.
- e. Lay out replacement canopy and stretch it to its full length on clean packing table.
- f. Attach tension strap hook to canopy apex lines.
- g. Locate gore 22 (nameplate gore) and place it uppermost in center of packing table.
- h. At skirt hem separate suspension lines into two equal groups with skirt hem 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 two groups (Figure 2).



6.2-7003

Figure 2. Suspension Line Arrangement and Orientation on Connector Links

- i. 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 (Figure 2).

j. Insert tension hooks into connector links and insert hooks into packing table.

k. Pull suspension lines taut and adjust apex hem.

l. Check suspension line continuity on left side of gore 22. Packer shall grasp line 1 at skirt hem and raise to enough height to ensure line is free of dips and twists. Continue procedure with lines 2 thru 11. Helper shall be positioned at connector links to check lines selected by packer (Figure 2).

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

n. Continue to inspect canopy assembly per WP 025 02.

o. Reinstall pilot parachute and connector strap Paragraphs 3 and 4.

p. Lay out riser assemblies and cross-connector straps on packing table at connector links. Riser snap fasteners shall face up. Ensure that riser assembly with ripcord grip retainer is on packer's side.

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

r. Remove connector link yoke and plate assemblies from bottom connector links.

s. Insert bottom connector links thru loop in each end of bottom cross connector strap, then thru loops in bottom risers. Ensure cross-connector strap label faces up.

t. Reinstall yoke and plate assemblies on bottom connector links. Ensure knurled portion of plates face up and screwheads face outboard.

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

v. Insert top connector links thru loops in each end of top cross-connector strap, then thru loops in top risers. Ensure cross-connector strap label faces up.

w. Reinstall yoke and plate assemblies on top connector links. Ensure knurled portion of plates face up and screwheads face outboard.

x. Insert tension hooks into connector links and insert hooks into packing table. Apply tension to canopy.

y. Repeat steps l and m. (QA)

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

aa. Apply torque seal to each torqued connector link screwhead.

ab. Mark date placed in service on canopy assembly per WP 004 00. (QA)

9. RISER ASSEMBLY REPAIRS.

10. REPLACEMENT OF SHOULDER HARNESS FITTING.

Materials Required

Specification or Part Number	Nomenclature
123ABM50500-11	Fitting
79NKTM-62	Nut, Hex

a. Remove and discard hex nut. Remove washers, bolt, and shoulder harness fitting (Figure 3).

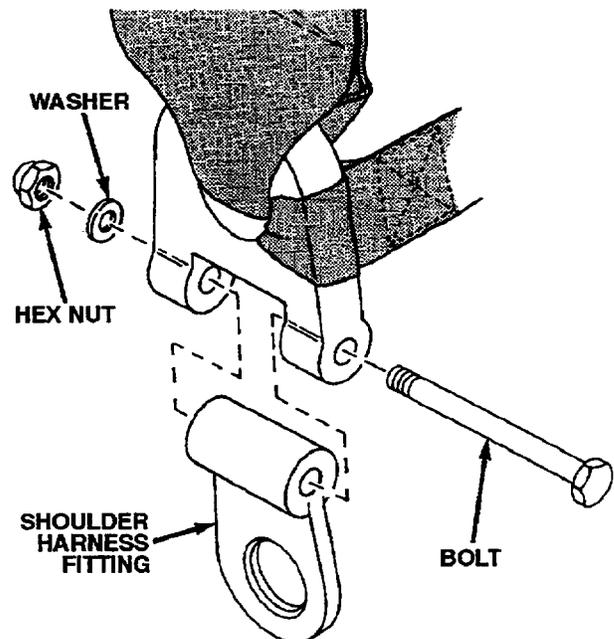


Figure 3. Shoulder Harness Fitting Replacement

b. Inspect replacement shoulder harness fitting for corrosion, burrs, and sharp edges.

c. Insert replacement shoulder harness fitting and install bolt, washers, and new hex nut (Figure 3).

11. REPLACEMENT OF RIPCORD GRIP RETAINER.

Support Equipment Required

Part Number	Nomenclature
-------------	--------------

DPP-50	Scale, Spring
--------	---------------

Materials Required

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

60A116C10-1	Ripcord Grip
-------------	--------------

V-T-295	Thread, Nylon, Size 6, Type I or II, Class A
---------	--

V-T-295	Thread, Nylon, Size E, Type I or II, Class A
---------	--

NOTE

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

a. Remove cover stitching and expose ripcord grip retainer.

b. Remove ripcord grip retainer and stitching from riser.

c. Position replacement ripcord grip retainer in same location as removed retainer and handstitch to riser with size 6 thread, doubled and waxed; tie off.

d. Machine stitch cover to riser with size E thread.

e. Perform ripcord grip pull test as follows:

(1) Fully seat ripcord grip into ripcord grip retainer.

(2) Set scale to zero. Attach spring scale to ripcord grip using nylon cord.

(3) Using a straight steady pull, remove ripcord grip from ripcord grip retainer. The pull force required to remove ripcord grip from ripcord grip retainer shall be 15 ± 5 lbs.

f. (If required) If pull force is not within limits, use pliers to adjust retainer. Ensure plier jaws are covered with protective material. After adjustment, repeat ripcord grip pull test. (QA)

g. Replace ripcord housing clip tacking WP 025 01.

12. REPLACEMENT OF RISER ASSEMBLY.

Materials Required

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

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

123AB50542-9	Riser Assembly
--------------	----------------

-or-

1979AS400-1	Riser Assembly
-------------	----------------

NOTE

For Double "L" Connector Link, refer to Paragraph 38 for disassembly, assembly, and inspection instructions.

a. Remove ripcord assembly from left riser assembly.

b. Remove canopy release assemblies from risers WP 025 01.

c. Remove connector link yoke and plate assemblies.

d. Slide riser loops off connector link bar.

e. Reinstall yoke and plate assemblies.

f. Ensuring suspension line continuity is maintained, insert connector links onto tension hooks (Figure 2).

g. Inspect replacement risers per WP 025 02.

h. Lay out replacement risers on packing table with riser fasteners facing up, and riser with ripcord grip clip on packer's side.

i. Remove connector link yoke and plate assemblies from bottom connector links.

j. Insert bottom connector links into bottom risers loops.

k. Reinstall yoke and plate assemblies on bottom connector links ensure knurled portion of plate face up and screwheads face outboard.

- l. Remove connector link yoke and plate assemblies from top connector links.
- m. Insert top connector links into top risers loops.
- n. Reinstall yoke and plate assemblies on top connector links ensure knurled portion of plate face up and screwheads face outboard.
- o. Perform suspension line continuity check (Figure 2).
- p. Tighten screws on top and bottom connector links to a torque value of 20 to 25 in-lbs. (QA)
- q. Apply torque seal to each connector link screwhead.
- r. Reinstall canopy release fittings WP 025 01.
- s. Install ripcord grip on left riser assembly, perform ripcord pull test Paragraph 11, and replace ripcord housing clip tacking WP 025 01.
- t. Mark date placed in service on identification and service life label per WP 004 00. (QA)

13. REPLACEMENT OF CANOPY RELEASE ASSEMBLY.

Support Equipment	
Part Number	Nomenclature
990065-1 -or- 015-710001-1	Adjuster Assembly, Strap
Materials Required	
Specification or Part Number	Nomenclature
990055-1 -or- 015-10307-5	Release Assembly, Canopy
F-900 Torque Seal (Color Optional)	Sealing Compound

CAUTION

To prevent damage to locking lever cover spring, do not lift locking lever cover after retention pin has been removed.

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

NOTE

Some canopy release assemblies may still have pinhead (Allen head) screws installed. This screw will remain in service until removal becomes necessary. Replacement will be made with a slotted head setscrew P/N 122-10935-3 (CAGE 99449). This screw is a one-time use item.

- b. Inspect replacement canopy release assembly per WP 025 02.

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

- (1) Engage adapter assembly with canopy release assembly.

NOTE

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

- (2) Verify full locking of canopy release assembly by lifting locking lever cover and attempting to disengage adapter assembly from canopy release assembly (Figure 4).

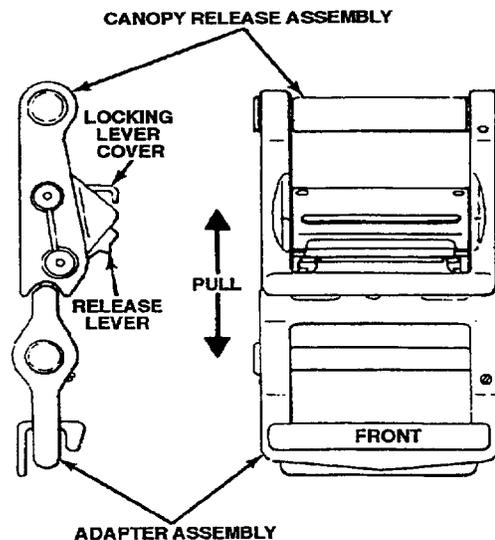
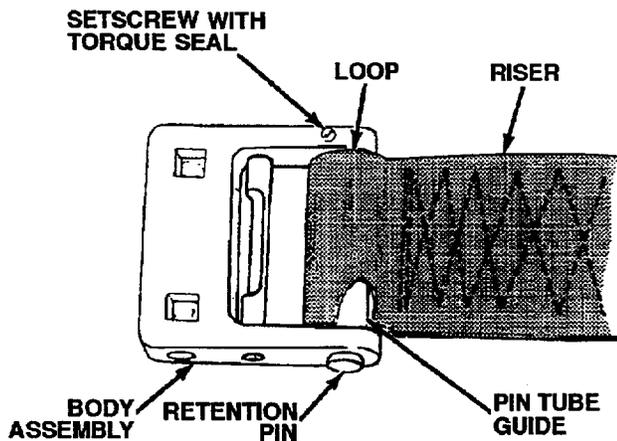


Figure 4. Canopy Release Assembly Locking Inspection

CAUTION

To prevent damage to locking lever cover spring, do not lift locking lever cover after retention pin has been removed.

d. Remove setscrew on underside of replacement canopy release assembly and slide retention pin out (Figure 5). Remove pin guide tube.



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Figure 5. Canopy Release Assembly Replacement

e. Insert replacement pin guide tube into riser loop (Figure 5).

f. Insert riser loop and pin guide tube into body of canopy release assembly (Figure 5). Ensure that release body is properly positioned for mating with release adapter. Insert retention pin thru pin guide tube.

g. Insert setscrew in hole located on underside of canopy release assembly (Figure 5) and tighten.

h. Apply torque seal to setscrew (Figure 5).

14. CONTAINER ASSEMBLY REPAIR.

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

- (1) Cleaning of contaminated areas.
- (2) Replacement of grommets, locking cones, snap fasteners, and eyes.

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

(4) Replacement of flap assemblies.

(5) Replacement of chaffing patch.

(6) Replacement of clamp release lanyard assembly.

(7) Replacement of shape channel.

b. Replace parachute container for any of the following:

(1) Service/total life has expired per WP 025 02.

(2) Damaged suspension line loops, snap fasteners, lanyard guide assembly and stitches on suspension line stowage loop assembly.

(3) Deterioration, fading, abrasion, holes, tears, degradation, or excessive contamination.

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

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 clamp base assembly and locking cone from top flap assembly. Remove clamp base assembly and locking cone.

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

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

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

e. Start handstitching from inside of container at widest end of clamp base assembly, using a running stitch thru each hole in the clamp base assembly and applicable holes in locking cone. Stitch to last hole in sequence; then stitch back around base assembly to starting hole. Tie off; trim ends 1/2-in.

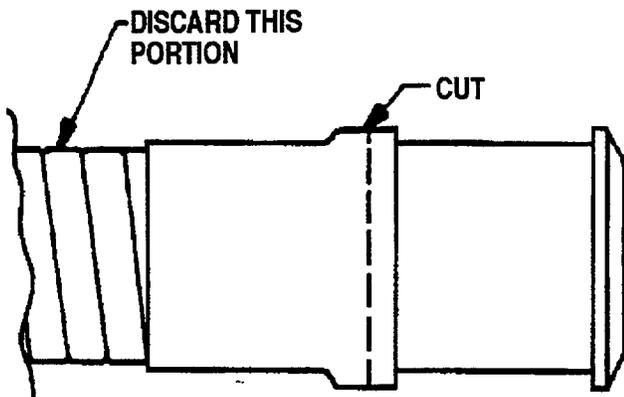
f. If base assembly was replaced, reinstall clamp and screw.

16. REPLACEMENT OF HOUSING RELEASE CLAMP SPACER.

Support Equipment

Part Number	Nomenclature
A-A-2311	File, Hand

a. To manufacture the shim, cut the end off of a scrap automatic release power cable housing or ripcord housing (Figure 6).



6.2-599

Figure 6. Spacer for Housing Release Clamp

b. Remove all sharp edges with a file.

c. A shim may be fabricated to dimensions of power cable and fitting.

17. REPLACEMENT OF FLAP ASSEMBLY.

a. Remove right and left side flaps and tops and bottom flaps from upper container pile fastener tape, and unfasten snap fasteners.

b. Remove clamp release lanyard Paragraph 19.

c. Dispose of flaps per current supply directives. Retain serviceable hardware for future use.

d. Inspect new flaps for loose or broken stitches, snags or contamination.

e. Ensure right and left side flaps and top and bottom flaps are properly attached to upper container using hook fastener tape to pile fastener tape, and snap fasteners. (QA)

18. REPLACEMENT OF CHAFING PATCH.

Materials Required

Specification or Part Number	Nomenclature
MIL-F-21840	Fastener Tape, Hook, Type II

a. Remove damaged chafing patch.

b. Cut three 3/4-in. lengths of 2-in. hook fastener tape.

c. Align with, and attach three 3/4 by 2-in. hook fastener tape to pile fastener tape on top flap assembly.

19. REPLACEMENT OF CLAMP RELEASE LANYARD ASSEMBLY.

Materials Required

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

NOTE

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

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

- b. Inspect replacement clamp release lanyard for loose or broken stitching, cuts, and contamination.
- c. Mark clamp release lanyard 26-in. from locking pin end.
- d. Temporarily insert lanyard pin into base plate stud hole.
- e. Rotate top container flap onto packing table. Route clamp release lanyard around left side of top container flap. Tack clamp release lanyard 6-in. from top container flap edge at point A, allowing 1/8-in. slack in lanyard between locking pin and tacking. Tacking passes around lanyard, not thru it. Use one turn of size A thread, single and waxed; tie off (Figure 7).

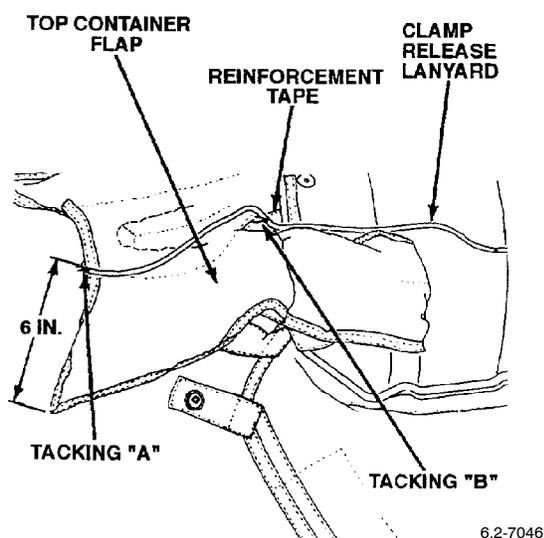


Figure 7. Clamp Release Lanyard Assembly Replacement

- f. Route clamp release lanyard along inside of top container flap. Tack clamp release lanyard to reinforcement tape at point B, allowing 1/8-in. slack between points A and B. Use one turn of size A thread, single and waxed; tie off (Figure 7). (QA)

20. LENGTH EXTENSION OF THE SHOULDER RESTRAINT STRAPS.

Materials Required

Specification or Part Number	Nomenclature
PIA-W-4088	Webbing, Nylon, Type XXVII, Class 1 or 1A
V-T-295	Thread, Nylon, Size 6, Type I or II, Class A

- a. Remove left hand riser from parachute canopy by:
 - (1) Remove connector link yoke and plate assemblies.
 - (2) Slide riser loops off connector link bars.
 - (3) Reinstall yoke and plate assemblies.
- b. Remove release assembly from riser.
- c. Remove ripcord assembly from left riser assembly.
- d. Cut and remove stitching that secures shoulder harness fitting to shoulder restraint strap.
- e. Remove shoulder harness fitting from shoulder restraint strap. Ensure location of restrictor strap is maintained on fitting.
- f. From the riser release fitting assembly loop end, measure and mark shoulder restraint strap at 12-in. At 12-in. mark, cut and sear shoulder restraint strap webbing. Avoid forming sharp edges while hot knifing and searing.
- g. Cut a new 14-in. length of webbing. Sear ends. Avoid forming sharp edges while hot knifing and searing.
- h. Install shoulder harness fitting at center point of the 14-in. length of webbing.
- i. Fold 14-in. length of webbing in half (7-in.).
- j. Place folded 14-in. webbing 3 1/2 -in. down each side of cut shoulder restraint strap. (The riser restraint strap (12-in. length) is sandwiched between the folded 14-in. webbing.) Ensure restrictor strap is located correctly and shoulder harness fitting offset is facing down. (If swivel shoulder release is used, offset is not applicable.)
- k. Ensure total length of shoulder restraint webbing is 14 1/2-in. from loop end of riser release fitting assembly to end of shoulder restraint strap webbing.
 - l. Sew lengthwise with size 6 thread, using a 4-point cross-stitch pattern (WP 004 00), 5-in. long, 1/8-in. from edge.
 - m. Inspect for correct length of shoulder restraint strap, 14 1/2-in. ± 1/4-in (Figure 8). (QA)

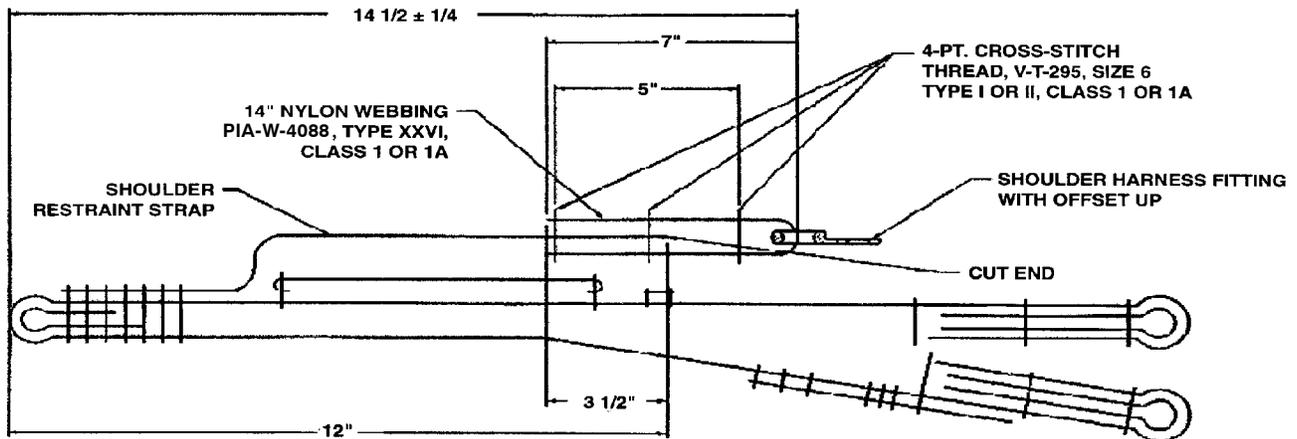


Figure 8. Modified Riser Length

n. Remove right hand riser from parachute canopy by:

- (1) Remove connector link yoke and plate assemblies.
- (2) Slide riser loops off connector link bars.
- (3) Reinstall yoke and plate assemblies.

o. Remove release assembly from riser.

p. Repeat steps d through m. Step j, ensure that the shoulder harness fitting offset is facing up on the right hand riser. (If the swivel shoulder release fitting is used, offset is not applicable.) (Figure 9).

21. REPAIR OF RIGHT SIDE FLAP CHAFING.

Materials Required

Specification or Part Number	Nomenclature
PIA-W-4088	Webbing, Nylon, Type VIII 1 3/4-in. Wide
MIL-F-21840	Fastener Tape, Pile, 2-in. Wide, Type II Class 1
V-T-295	Thread, Nylon, Size E, Type I or II, Class A
V-T-295	Thread, Nylon, Size FF, Type I or II, Class A

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 one piece of webbing 7 3/4-in. long and one piece 3 1/2-in. long.
- b. Cut one piece of pile fastener tape 7 3/4-in. long and one piece 3 1/2-in. long.
- c. Cut one piece of hook fastener tape 7 3/4-in. long and one piece 3 1/2-in. long.
- d. Place respective lengths of webbing onto hook fastener tape and sew with two rows of size E thread, and backstitch 1/2-in.

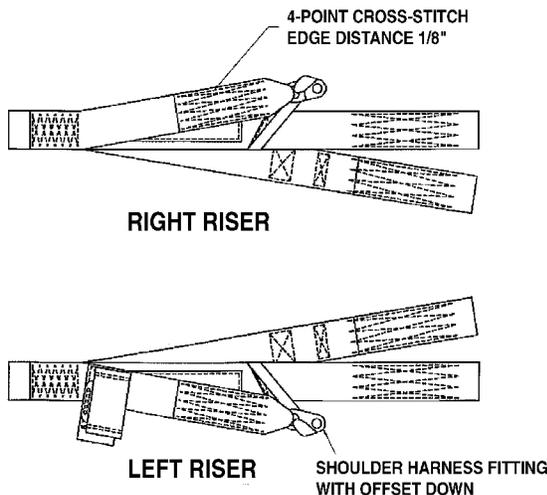


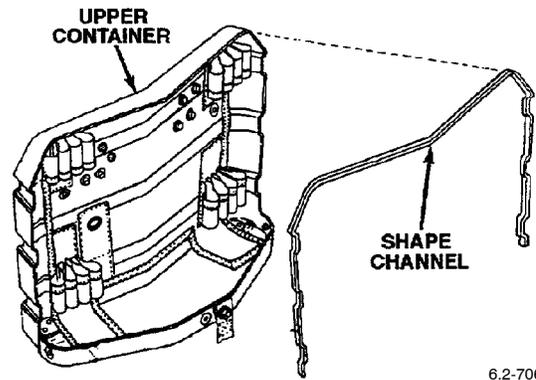
Figure 9. Harness Fitting Offset

e. Place 7 3/4-in. pile fastener tape on outside of right side flap assembly lengthwise, 1 1/2-in. from edge with snaps. Sew with two rows of size E thread, 1/8-in. from edge and backstitch 1/2-in.

f. Hand tack 7 3/4-in. hook fastener tape on outside right flap assembly lengthwise, 1 1/2-in. from edge with snaps. Tack with size FF thread, doubled and waxed, tie off. Tack in 6 places 1/4-in. from corners and in middle.

g. Place 3 1/2-in. pile fastener tape on outside of top flap assembly lengthwise 3/4-in. from edge with snaps. Sew with two rows of size E thread, 1/8-in. from edge and backstitch 1/2-in.

h. Hand tack 3 1/2-in. pile fastener tape on outside of top flap assembly lengthwise 3/4-in. from snaps. Tack with size FF thread, doubled and waxed, tie off. Tack in 4 places 1/4-in. from corners.



6.2-7062

Figure 9A. Shape Channel Replacement

22. REPLACEMENT OF SHAPE CHANNEL.

Materials Required

Specification or Part Number	Nomenclature
GS179AP-4, Rev B, CAGE 75345 or 76376	Rubber Silicone Nonmetallic (Shape Channel)
MIL-A-46106	Adhesive, Sealants Silicone, RTV, General Purpose, 12-oz. Cartridge
—	Cloth, Emery, 180 Grit or Equal



Apply the adhesive in a well ventilated area. Keep away from heat, sparks and open flame.

- a. Remove unserviceable shape channel.
- b. Thoroughly remove/clean adhesive silicone residue from the upper container. Use emery cloth to further clean the surface, then wipe clean.
- c. Cut a 35-in. length of shape channel material from the source.
- d. Apply adhesive generously into the shape channel groove.
- e. Attach the shape channel in place around the perimeter of the upper container. Use finger pressure to seat the shape channel. Remove residue with a paper towel (Figure 9A).

f. Allow a minimum of 1-hr. to dry.

23. REPLACEMENT OF CONTAINER.

a. Below addresses the upper and lower container.

24. REPLACEMENT OF UPPER CONTAINER.

Support Equipment Required

Part Number	Nomenclature
A-A-1358	Wrench, 3/8 in.

Materials Required

Specification or Part Number	Nomenclature
22NKTM-02	Nut, Hex
MS20392-2C51	Pin, Cotter
V-T-295	Thread, Nylon, Size FF, 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. Remove survival kit lanyard from lanyard stowage pocket and remove cushion assembly.
- b. Remove tamper seal. Rotate survival kit release handle counter-clockwise and remove anti-rotation strap fitting from locking mechanism upper stud. Cut tackings and remove anti-rotation strap clip from left canopy release assembly (Figure 10).



Figure 10. Rotate Survival Kit Release Handle

c. Remove survival kit from lower container. Inspect survival kit and contents per (NAVAIR 13-1-6.1-1, NAVAIR 13-1-6.3-1, and NAVAIR 13-1-6.5).

d. Remove emergency oxygen system assembly hose stowage lanyard assembly, and turn backpack assembly over on table ensuring oxygen regulator is protected.

CAUTION

When loosening three captive screws, hold oxygen bottle secure to prevent screws from stripping.

e. Remove torque seal from three captive screws. Loosen three captive screws and remove emergency oxygen system assembly from lower container. Emergency oxygen system assembly shall be inspected per NAVAIR 13-1-6.4 (Figure 11).

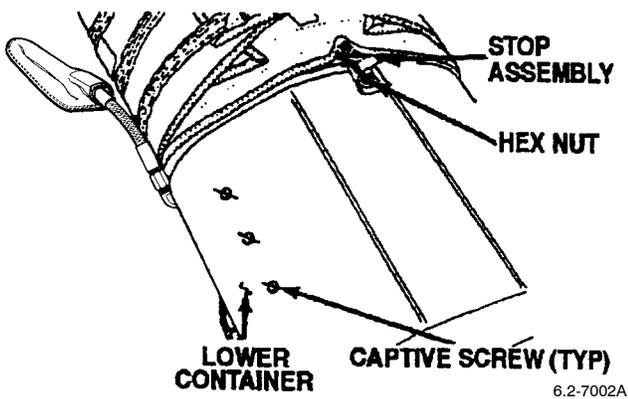


Figure 11. Remove Torque Seal

f. Turn backpack assembly over. Remove lower stop assembly hex nut, bolt and washer. Retain for re-assembly. Replace, if damaged (Figure 12).

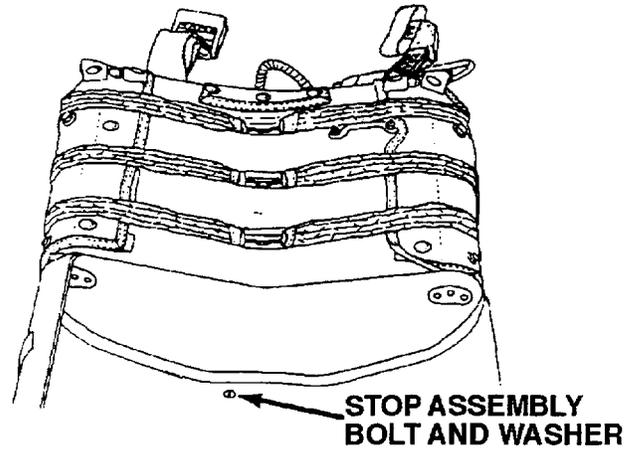


Figure 12. Remove and Discard Lower Stop Hex Nut

g. Turn backpack assembly over. Remove and discard two hinge assembly cotter pins. Remove hinge assembly straight pins and washers. Retain straight pins and washers for re-assembly (Figure 13).

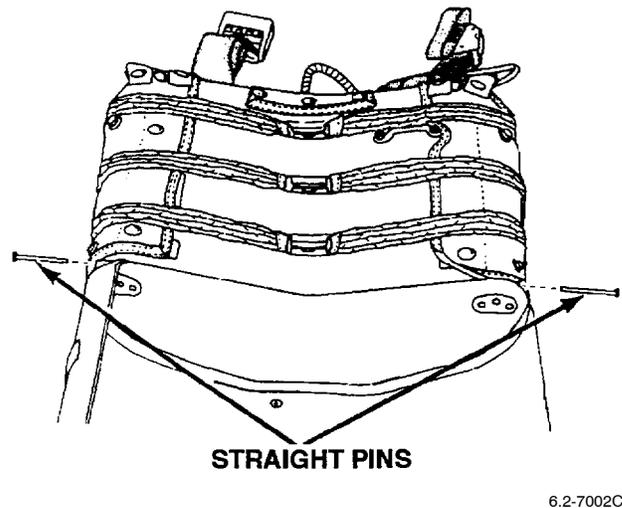


Figure 13. Remove and Discard Two Hinge Pins

h. Completely open upper container and detach spring opening assemblies from flaps. Unsnap corner keeper snaps.

i. Untie clamp release lanyard and remove canopy and suspension lines from upper container and stretch on table.

j. Remove connector link tackings and disengage riser fasteners from upper container.

k. Remove flap assemblies from upper container Paragraph 17.

l. Dispose of upper container per current supply directives. Retain serviceable hardware for future use.

m. Inspect replacement upper container per NAVAIR 13-1-6.1-1.

n. Repack parachute assembly WP 025 02.

o. Align upper container and lower container hinges. Install straight pins and washers in hinge assemblies, ensuring heads of straight pins face outboard (Figure 14).

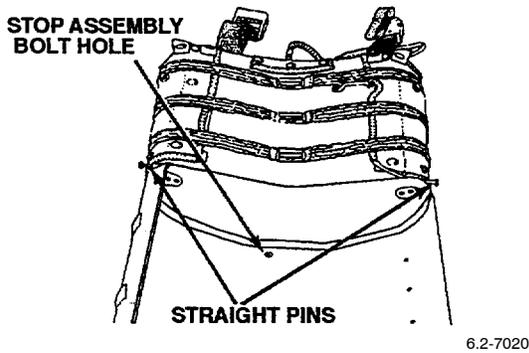


Figure 14. Align Upper Container and Lower Container Hinges

p. Install washers and new cotter pins. (QA)

q. Install lower stop assembly bolt and washer. Turn backpack assembly over. Install hex nut (Figure 15). (QA)

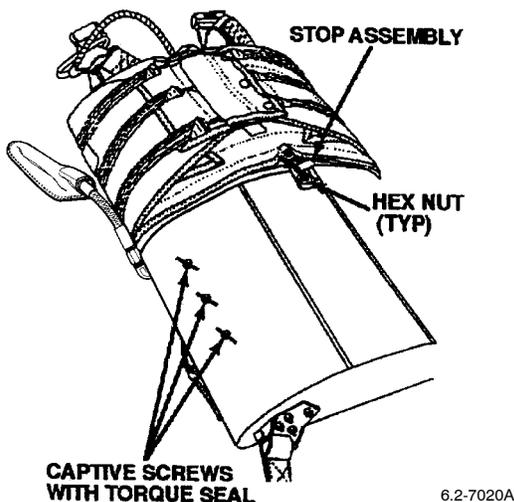
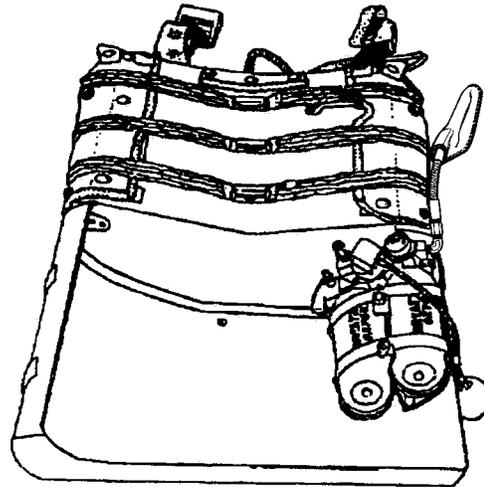


Figure 15. Install Lower Stop Assembly Bolt and Washer

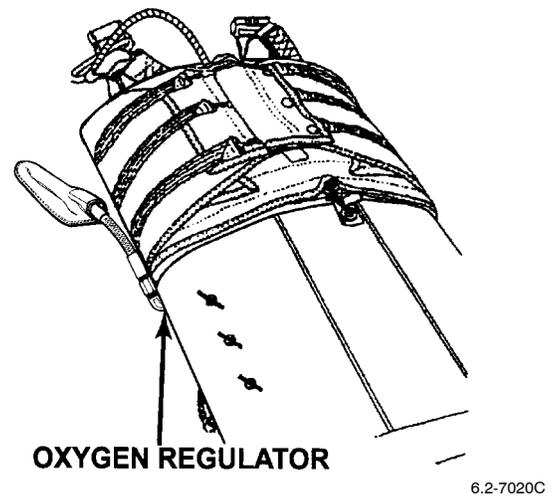
r. Ensure emergency oxygen system assembly has been inspected per NAVAIR 13-1-6.4. Place emergency oxygen system assembly in lower container. Align and install three captive screws in emergency oxygen system assembly thru lower container (Figure 16).



6.2-7020B

Figure 16. Inspecting Emergency Oxygen System

s. Attach emergency oxygen system hose stowage lanyard assembly to pile fastener tape on upper container (Figure 17).



6.2-7020C

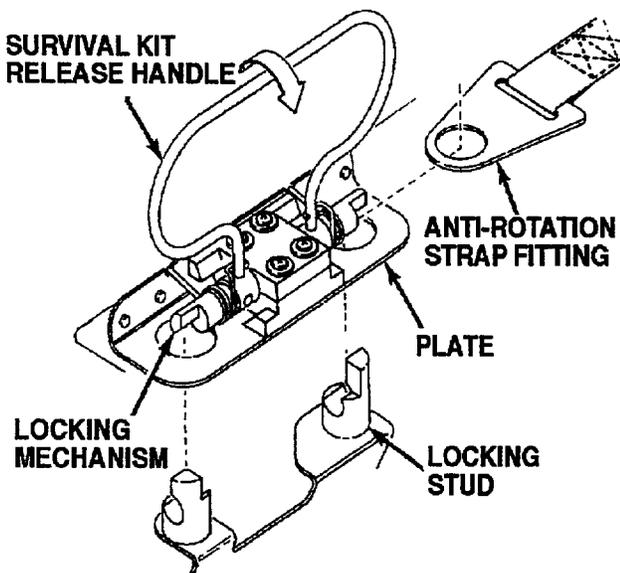
Figure 17. Attaching Emergency Oxygen Hose

t. After installing oxygen bottles, adjust two lateral bands so they are touching lower container. Ensure that survival kit lanyard is not trapped between lower container and survival kit and that lanyard exits at bottom of lower container.

NOTE

Loosening the three (3) captive screws aids in the installation of the survival kit and the prevention of inadvertent actuation.

u. Route anti-rotation strap thru loop. Place anti-rotation strap fitting over upper stud between plate and locking mechanism ensuring there are no twists in anti-rotation strap. Loosen the three captive screws 2 1/2 turns or 3 turns maximum (Figure 15). Lock survival kit release handle by lifting up. Ensure that anti-rotation strap fitting is located between plate and locking mechanism. Rotate release handle downward ensuring that locking mechanism engages locking studs (Figure 18). Tighten three captive screws and apply torque seal to each screw (Figure 15). (QA)



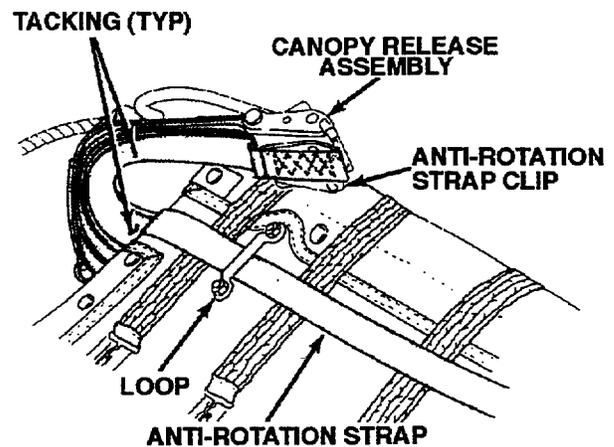
6.2-7021

Figure 18. Routing of Anti-Rotation Strap

v. Install anti-rotation strap clip to left canopy release assembly ensuring strap is free of twists. Center anti-rotation strap on left riser assembly and tack where riser exits upper container and 4-in. from loop end of riser assembly. Tack with one turn of size FF thread, single and waxed. Tacking shall pass thru inside layer of webbing only (Figure 19). (QA)

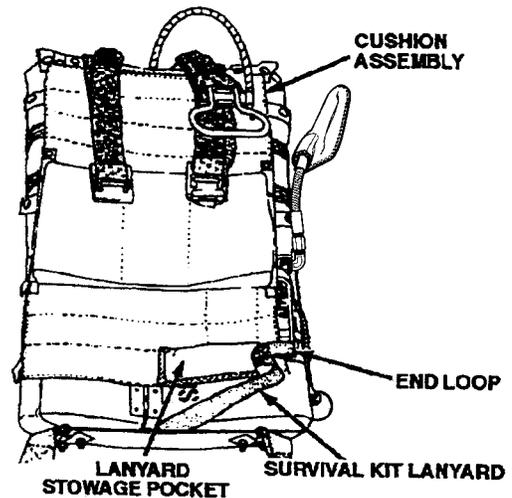
w. Install cushion assembly on crew backpack. Accordion fold and insert survival lanyard in lanyard stowage pocket. Ensure snap hook is completely inside lanyard stowage pocket, and end loop of lanyard is exposed outside lanyard stowage pocket (Figure 20).

x. Perform final checkout WP 025 02.



6.2-7021A

Figure 19. Install Anti-Rotation Strap Clip



6.2-7065C

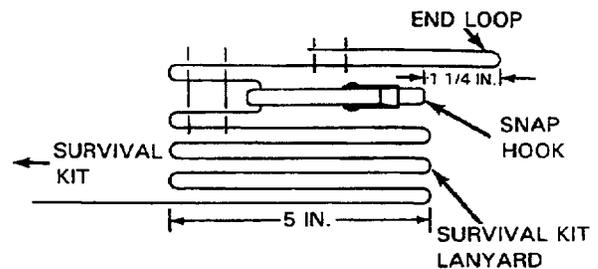


Figure 20. Install Cushion Assembly

25. REPLACEMENT OF LOWER CONTAINER.

Support Equipment Required

Part Number	Nomenclature
A-A-1358	Wrench, 3/8-in.

Materials Required

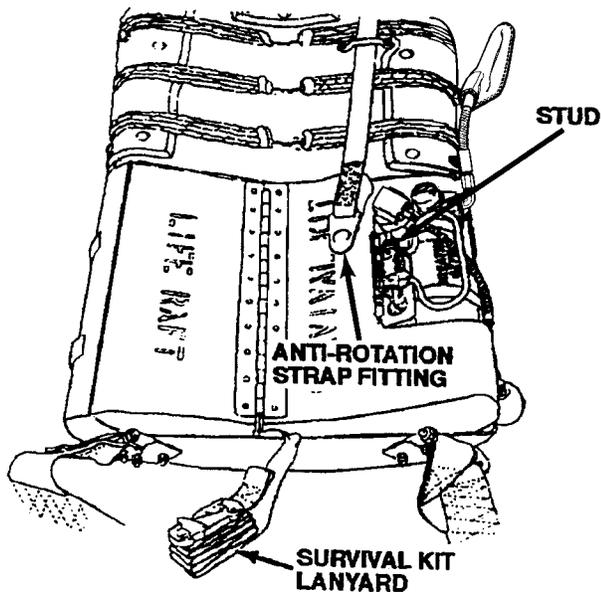
Specification or Part Number	Nomenclature
22NKTM-02	Nut, Hex
MS20392-2C51	Pin, Cotter
F-900 Torque Seal (Color Optional)	Sealing Compound

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. Remove survival kit lanyard from lanyard stowage pocket and remove cushion assembly.

b. Remove tamper seal. Rotate survival kit release handle counter-clockwise and remove anti-rotation strap fitting from locking mechanism upper stud (Figure 21).



2503-20

Figure 21. Rotate Survival Kit Release Handle

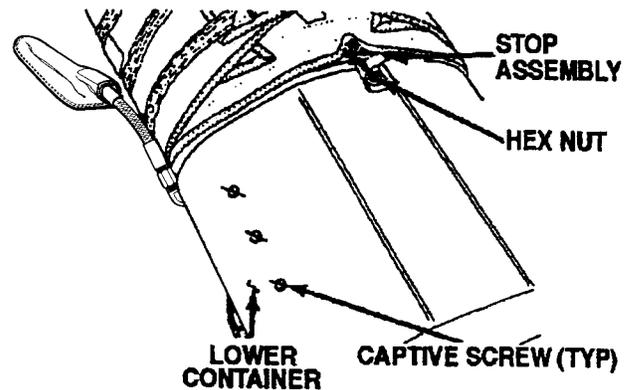
c. Remove survival kit from lower container. inspect survival kit and contents per NAVAIR 13-1-6.1-1, NAVAIR 13-1-6.3-1, and NAVAIR 13-1-6.5.

d. Remove emergency oxygen system assembly hose stowage lanyard assembly, and turn backpack assembly over on table ensuring oxygen regulator is protected.

CAUTION

When loosening three captive screws, hold oxygen bottle secure to prevent screws from stripping.

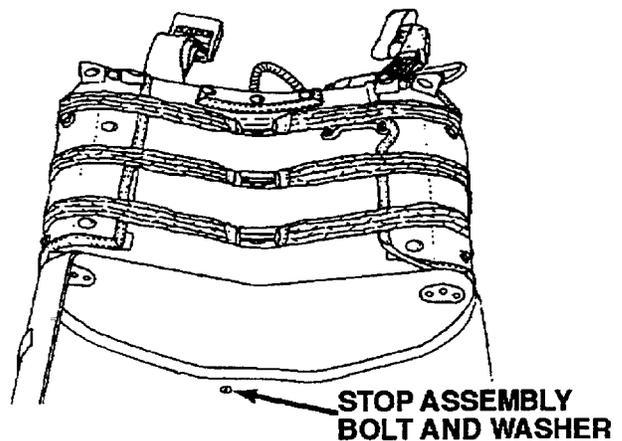
e. Remove old torque seal from three captive screws. Loosen three captive screws and remove emergency oxygen system assembly from lower container. Emergency oxygen system assembly shall be inspected per NAVAIR 13-1-6.4 (Figure 22).



2503-21

Figure 22. Remove Old Torque Seal

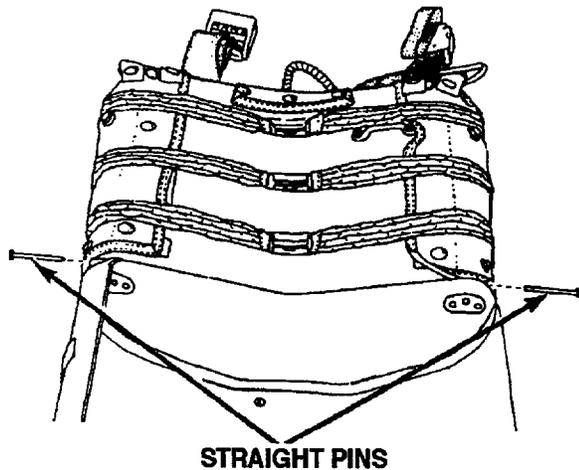
f. Turn backpack assembly over. Remove lower stop assembly hex nut, bolt and washer. Retain for re-assembly. Replace, if damaged. (Figure 23).



2503-22

Figure 23. Remove and Discard Lower Stop

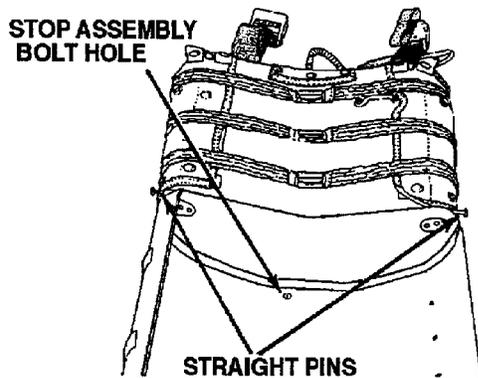
g. Turn backpack assembly over. Remove and discard two hinge assembly cotter pins. Remove hinge assembly straight pins and washers. Retain straight pins and washers for reassembly (Figure 24).



2503-23

Figure 24. Remove and Discard Cotter Pins

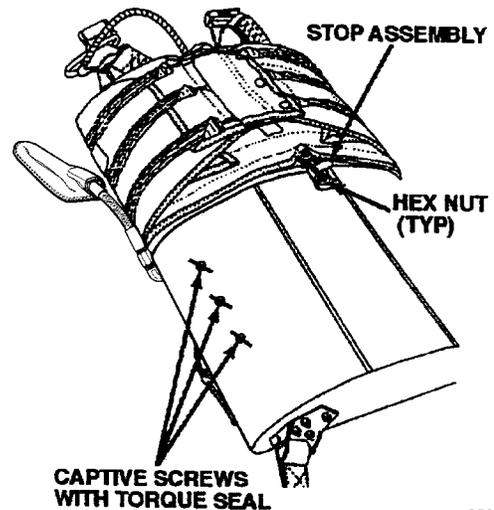
- h. Dispose of lower container per current supply directives. Retain serviceable hardware for future use.
- i. Remove lapbelt assembly per WP 025 01.
- j. Inspect replacement lower container per WP 025 02.
- k. Install lapbelt assembly per WP 025 01.
- l. Align upper container and lower container hinges. Install straight pins and washers in hinge assemblies, ensuring heads of straight pins face outboard (Figure 25).



2503-24

Figure 25. Align Upper Container

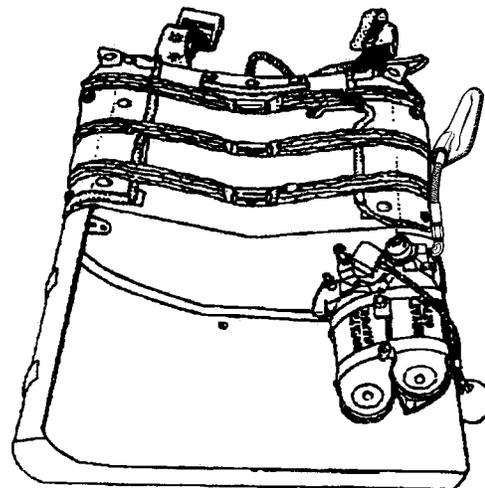
- m. Install washers and new cotter pins. (QA)
- n. Install lower stop assembly bolt and washer. Turn backpack assembly over. Install hex nut (Figure 26). (QA)



2503-25

Figure 26. Install Lower Stop Bolt

- o. Ensure emergency oxygen system assembly has been inspected per NAVAIR 13-1-6.4. Place emergency oxygen system assembly in lower container. Align and install three captive screws in emergency oxygen system assembly thru lower container (Figure 27).



2503-26

Figure 27. Inspect Emergency Oxygen System

- p. Attach emergency oxygen system hose stowage lanyard assembly to pile fastener tape on upper container (Figure 28).
- q. Ensure survival kit and contents have been inspected per NAVAIR 13-1-6.1-1, NAVAIR 13-1-6.3-1, and NAVAIR 13-1-6.5. Place survival kit in lower container.

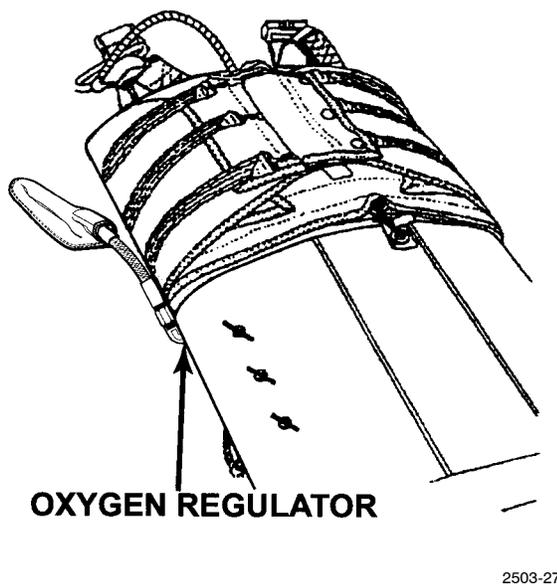


Figure 28. Apply Torque Seal

r. After installing oxygen bottles, adjust two lateral bands so they are touching oxygen lower container. Ensure that survival kit lanyard is not trapped between lower container and survival kit and that lanyard exits at bottom of lower container.

NOTE

Loosening the three (3) captive screws aids in the installation of the survival kit and the prevention of inadvertent actuation.

s. Route anti-rotations strap thru loop. Place anti-rotation strap fitting over upper stud between plate and locking mechanism ensuring there are no twists in anti-rotation strap. Loosen the three captive screws 2 1/2 turns or 3 turns maximum (Figure 15). Lock survival kit release handle by lifting up. Ensure that anti-rotation strap fitting is located between plate and locking mechanism. Rotate release handle downward ensuring that locking mechanism engages locking studs (Figure 29). Tighten three captive screws and apply torque seal to each screw (Figure 14). (QA)

t. Install cushion assembly on crew backpack. Accordion fold and insert survival kit lanyard in lanyard stowage pocket. Ensure snap hook is completely inside lanyard stowage pocket, and end loop of lanyard is exposed outside lanyard stowage pocket (Figure 30).

u. Perform final checkout WP 025 01.

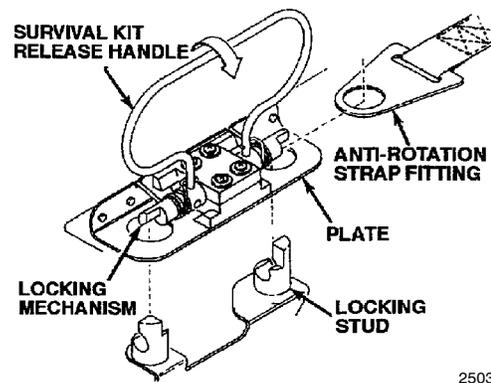


Figure 29. Route Anti-Rotation Strap Thru Loop

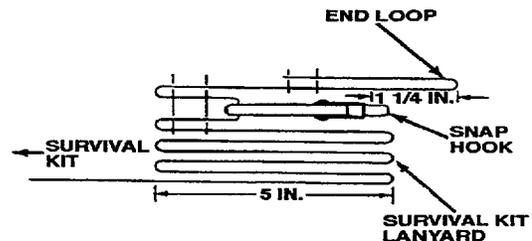
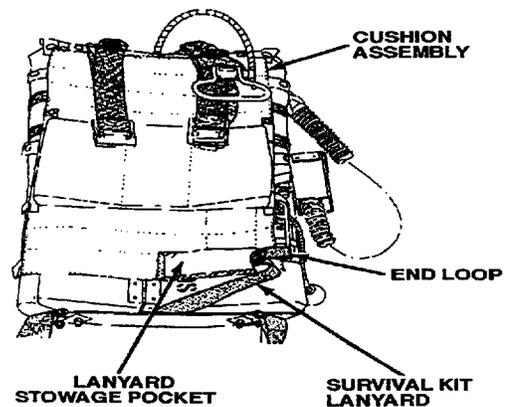


Figure 30. Install Cushion Assembly

26. ANTI-ROTATION STRAP ASSEMBLY REPAIR.

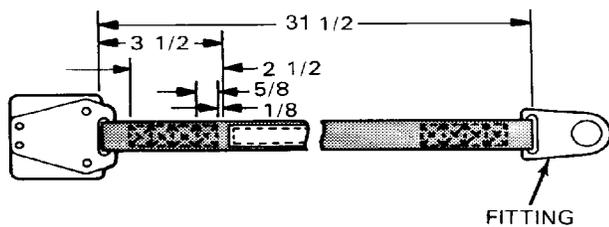
- a. Remove unserviceable webbing from anti-rotation clip spring and fitting. Retain for reuse.
- b. Cut a 39-in. length of webbing using a hot knife. If shears are used for cutting, sear ends to prevent fraying. Avoid forming sharp edges while hot knifing or searing.
- c. Measure and mark 3 1/2-in. from each end.
- d. Insert webbing into anti-rotation clip spring, fold on mark and tack in place (Figure 31).

27. FABRICATION OF ANTI-ROTATION STRAP ASSEMBLY.

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 XVII Gray, Class 2

- a. Machine stitch tacked folds (Figure 31). (QA)



NOTE: ALL DIMENSIONS ARE IN INCHES.

6.2-7069

Figure 31. Anti-Rotation Strap Assembly Fabrication

- b. Attach label per Paragraph 27.

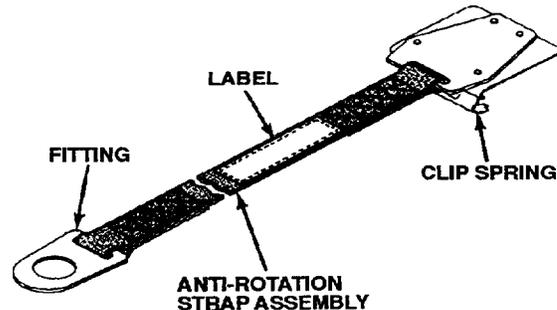
28. REPLACEMENT OF LABEL ON ANTI-ROTATION STRAP ASSEMBLY.

Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size E, Type I or II, Class A
676AS100-1	Label

- a. Carefully cut stitching and remove unserviceable label.
- b. Mark required information on replacement label.

- c. Locate label on anti-rotation strap assembly (Figure 32).



6.2-7042

Figure 32. Label Removal and Replacement

- d. Fold label sides and ends under 1/4-in. Machine or hand baste folds in place.

- e. Machine stitch label to anti-rotation strap assembly (Figure 32).

- f. Remove basting stitches. (QA)

29. RIPCORD ASSEMBLY REPAIR.

- a. Repair of the ripcord assembly is limited to the following:

- (1) Cleaning contaminates areas per WP 004 00.
- (2) Replacement of loose or broken tackings per WP 025 01.

- b. Replace ripcord assembly for any of the following:

- (1) Bent, broken, or cracked locking pins.
- (2) Corroded, frayed, or permanently bent cable.
- (3) Loose cable swage ball or housing ferrule.
- (4) Corroded, cracked, or bent handle or housing.

30. REPLACEMENT OF RIPCORD ASSEMBLY.

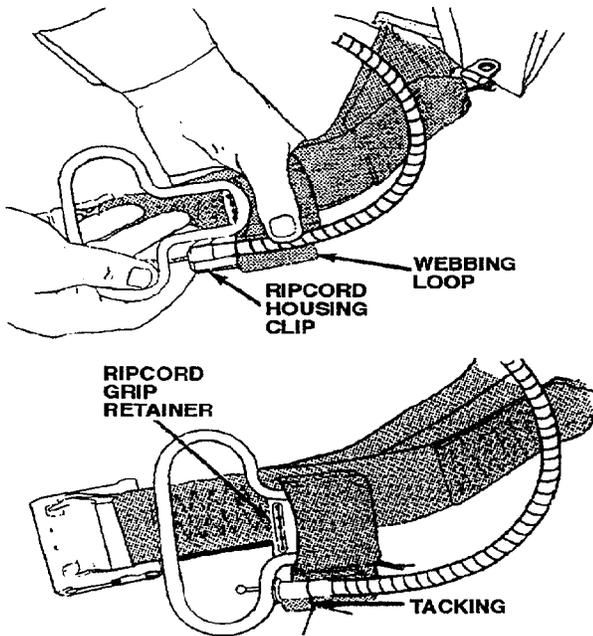
Materials Required

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

NOTE

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

- a. Remove ripcord assembly and tacking from webbing loop.
- b. Inspect replacement ripcord assembly per WP 025 02.
- c. Insert ripcord housing clip into webbing loop attached to left riser assembly (Figure 33).



6.2-7019

Figure 33. Ripcord Assembly Replacement

- d. Tack thru loop and thru hole in ripcord housing clip with one turn of size E thread, single and waxed; tie off (Figure 33). (QA)

- e. Insert ripcord grip into ripcord grip retainer.

31. REPLACEMENT OF RIPCORD HOUSING AND SPACER ATTACHMENT TO CLAMP BASE ASSEMBLY.

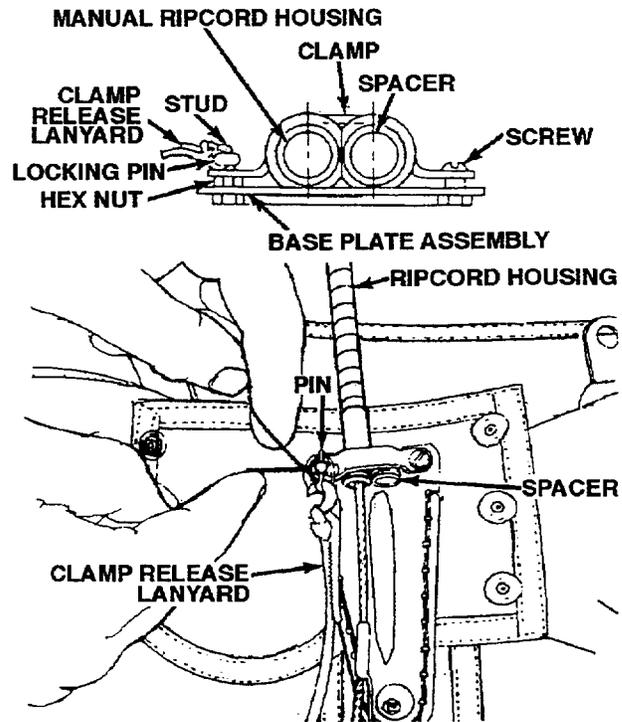
Materials Required

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size FF, Type I or II, Class A
711-07094	Spacer

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. Mark clamp release lanyard 26-in. from locking pin end.
- b. Position large slotted end of base plate clamp under screwhead on base plate. Position ripcord housing and spacer under clamp with flat sides of each housing positioned against base plate stud. Insert locking pin into stud hole and tighten screw to secure clamp in place (Figure 34). (QA)



6.2-7009

Figure 34. Ripcord Clamp Release Lanyard

- c. Safety-tie locking pin to stud with one turn of size FF thread, single and waxed. Pass thread thru lanyard knot; tie off (Figure 34). (QA)

32. CROSS-CONNECTOR STRAPS.

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

33. REPLACEMENT OF CROSS-CONNECTOR STRAP.

Materials Required

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

NOTE

For Double “L” Connector Link, refer to Paragraph 38 for disassembly, assembly, and inspection instructions.

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

34. REPAIR OF CUSHION ASSEMBLY.

a. Repair of the cushion (lumbar pad) and backpad assembly is limited to the following:

- (1) Cleaning contaminated areas per WP 004 00.
- (2) Replacement of snap fasteners per WP 004 00.
- (3) Replacement of hook fastener tape.
- (4) Repair of holes, tears, and loose or broken stitching per WP 004 00.

b. Replace cushion assembly or backpack assembly for any holes, tears, or other damage deemed beyond repair.

35. REPAIR OF SURFACE SCRATCHES AND CRACKS.

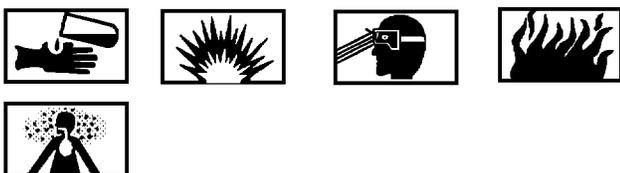
Materials Required

Specification or Part Number	Nomenclature
MIL-R-9300 (CAGE Code 86961)	Epoxy Resin, Type II, Form A, Grade D
O-D-1271	Hardener (Diethylene Triamine)
MIL-C-9084	Glass Cloth, Type VIII B, Class 2
MIL-L-19537	Lacquer, Color-34087, Class 2
MIL-P-23377	Epoxy Primer, Class 2
LP00370	Cellophane
O-A-51	Acetone
PC451 (CAGE Code 45255)	Aluminum Oxide Paper (240 Grit) Milled Glass Fiber (Glass Floc), 1/32-in.



Acetone, O-A-51 1

a. Clean damaged area with acetone, using a clean, cotton cloth. Clean about 2-in. past damaged area in all directions.



Epoxy Resin, MIL-R-9300 6



Diethylene Triamine, O-D-271 4

NOTE

Mix 100 parts of epoxy resin to 10 parts diethylene triamene (hardener). Do not mix more than can be used in 25 min.

b. Paint cleaned area with one or more coats of resin (number of coats to be applied depends on severity of damage).

c. Fill small fractures with putty-like mixture of resin and milled glass fibers.

d. Over coated surface, apply sheet of cellophane extending 2 or 3-in. beyond treated surface. Smooth out all entrapped air bubbles either by hand or with a rubber roller.

e. Allow resin to cure overnight at room temperature. If necessary, resin may be cured in an oven heated to 212°F (100°C) in order to reduce curing time.



Aluminum Oxide, PC 451 2

f. After resin has cured, remove cellophane sheet and lightly sand off excess resin. Clean sanded area with clean, cotton cloth.



Epoxy Primer, MIL-P-23377 5

g. Refinish surface with one coat of epoxy primer and two coats of camouflage green acrylic lacquer.

h. Upon completion of repair, return container to service.

36. REPAIR OF NON-PENETRATING CRACKS, HOLES, AND SCRATCHES.

Materials Required

Specification or Part Number	Nomenclature
LP00370	Cellophane
MIL-R-9300 (CAGE Code 86961)	Epoxy Resin, Type II, Form A, Grade D
O-D-1271	Hardener (Diethylene Triamine)
MIL-C-9084	Glass Cloth, Type VIII B, Class 2
MIL-L-19537	Lacquer, Color-34087, Class 2
O-A-51	Acetone
PC451	Aluminium Oxide Paper (240 Grit)
MIL-P-23377	Epoxy Primer, Class 2

a. Sand damaged areas lightly either by hand or machine to a smooth contour (Figure 35).

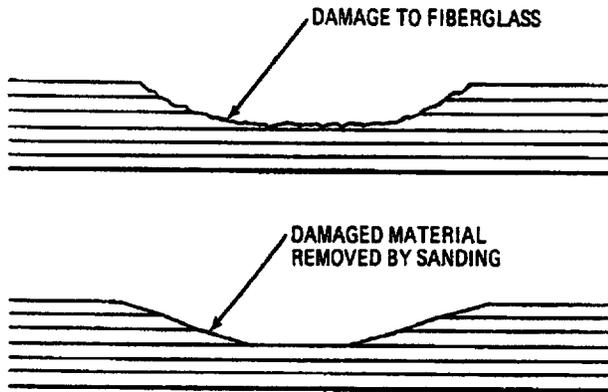


Figure 35. Sand Damaged Areas

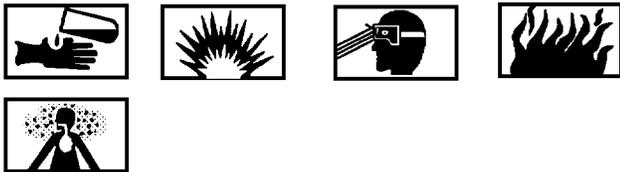
6.2-5877



Acetone, O-A-51

1

b. Clean sanded area with acetone, using clean, cotton cloth. Clean about 2-in. past sanded area in all directions.



Epoxy Resin, MIL-R-9300

6



Diethylene Triamine, O-D-271

4

NOTE

Mix 100 parts of epoxy resin to 10 parts diethylene triamine (hardener). Do not mix more than can be used in 25 min.

c. Paint sanded area with one coat of resin.

d. Cut sections of glass fabric to shape of damaged area. Soak cut sections in resin until resin content 50 percent has been achieved.

e. Place soaked sections of glass fabric in sanded depression area as shown (Figure 36).

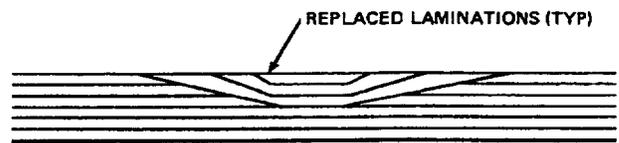


Figure 36. Placement of Soaked Sections

6.2-5877A

f. Place a sheet of cellophane over repaired area, and work out excess resin.

g. Allow resin to cure overnight at room temperature. If necessary, resin may be cured in oven heated to 100°C (212°F) in order to reduce curing time.



Epoxy Primer, MIL-P-23377

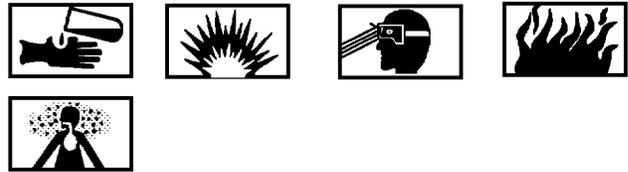
5

h. After resin has cured, remove cellophane sheet and hand or machine sand surface of repaired area to remove excess resin. Clean sanded area with a clean cotton cloth.

i. Refinish surface with one coat of epoxy primer and two coats of camouflage black acrylic lacquer.

j. Upon completion of repair, return container to service.

37. REPAIR OF PENETRATING CRACKS OR HOLES.



Materials Required

Specification or Part Number	Nomenclature
MIL-R-9300 (CAGE Code 86961)	Epoxy Resin Type II, Form A, Grade D
O-D-1271	Hardener (Diethylene Triamine)
MIL-C-9084	Glass Cloth, Type VIII B, Class 2
MIL-L-19537	Lacquer, Color-34087, Class 2
LP00370	Cellophane
O-A-51	Acetone
PC451	Aluminum Oxide Paper (240 Grit)
A-11 or B11	Plastic Hydrocal
MIL-P-265	Polyvinyl Alcohol

Polyvinyl Alcohol, MIL-P-265

7

b. After plaster has been applied to frame, coat a similar undamaged area on parachute container with release agent (paste wax, polyvinyl alcohol, vinyl film, or cellophane); then embed container in soft plaster to form surface of required size and shape.

c. After plaster has hardened (set), remove container and allow mold to dry for 12 to 15 hr. Mold should be oven-dried at about 104°C (220°F) for several hours.

d. Carefully hand sand mold surface with fine sand-paper while mold is still warm, coat with DC-4 silicone grease.

e. After excess grease has been removed, spray or brush on two or three coats of releasing lacquer (garalease 915 or XD-481) onto mold surface. When these coats of releasing lacquer are completely dry, apply additional coat of DC-4 silicone grease and rub off any excess. Mold is now ready for use.

f. Trim (cut out) damaged portion carefully to either circular or oval shape.

g. Carefully sand damaged area either by hand or machine a distance of at least 25 times thickness of container wall (Figure 37).

Materials Required

Specification or Part Number	Nomenclature
MIL-P-23377	Epoxy Primer, Class 2

NOTE

To repair extensively damaged containers, a mold must be used in forming/shaping replacement part to proper curvature. Plaster molds formed of materials such as Hydrocal A-11 or B-11 have proven satisfactory. Steps a thru e pertain to fabrication of molds; Steps f thru q pertain to container repairs.

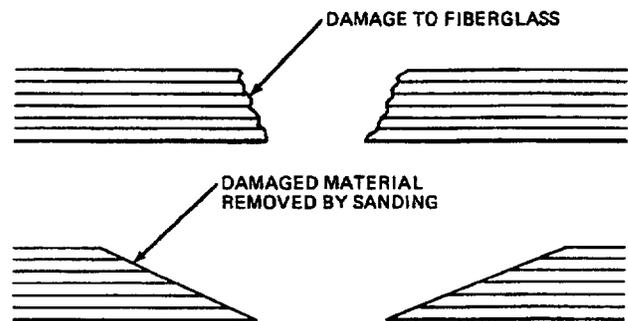


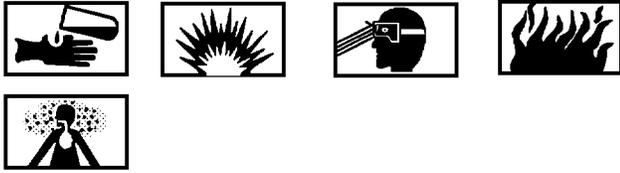
Figure 37. Carefully Sand Damaged Area

6.2-5881

a. Construct suitable wood frame or container that follows roughly the contour of convex side of parachute container for holding soft plaster mold material.

h. Prepare glass-fabric laminations for repairing container wall by cutting largest piece of fabric to exact outer shape of the sanded surface.

i. Cut smallest piece so that it overlaps scarfed area a proportionate distance (depending upon number of plies in repair). Cut intermediate size pieces so they overlap equally.



Epoxy Resin, MIL-R-9300 6

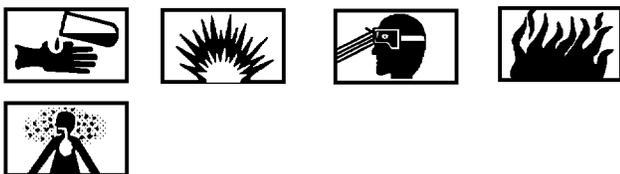


Diethylene Triamine, O-D-271 4

NOTE

Mix 100 parts of epoxy resin to 10 parts diethylene triamine (hardener). Do not mix more than can be used in 25 min.

j. A convenient way to prepare these laminations is to brush-spread resin on them and then sandwich spread fabric between two sheets of colored cellophane. Sections of glass fabric can then be cut to shape without fraying at edges. Resin content of all applied fabric should be about 50 percent.



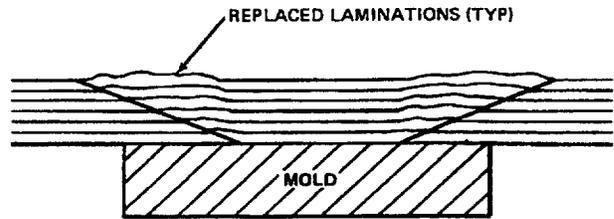
Polyvinyl Alcohol, MIL-P-265 7

NOTE

When necessary to use a mold to rebuild part of a container wall, surface of mold must be treated to prevent sticking (adhesion of resin). One or more coats of following release agents may be applied: Heavy duty paste wax, polyvinyl alcohol, vinyl film, polyester film, or cellophane.

k. (If required) place required mold inside container.

l. Lay/spread prepared sections of glass fabric into place as shown by first removing cellophane sheet from one side of fabric, placing exposed fabric into position of damaged area, and then removing second sheet of cellophane (Figure 38).



6.2-5882

Figure 38. Lay/Spread Prepared Sections

m. Cover entire repaired area with a sheet of cellophane, and carefully work surface to remove as much excess resin as possible.

n. Allow resin to cure overnight at room temperature. If necessary, resin may be cured in an oven heated to 100°C (212°F) in order to reduce curing time.



Epoxy Primer, MIL-P-23377 5

o. After resin has cured, remove cellophane sheet and lightly sand off excess resin. Clean sanded area with a clean cotton cloth.

p. Refinish surface with one coat of epoxy primer and two coats of camouflage black acrylic lacquer.

q. Upon completion of repair, return container to service.

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

NOTE

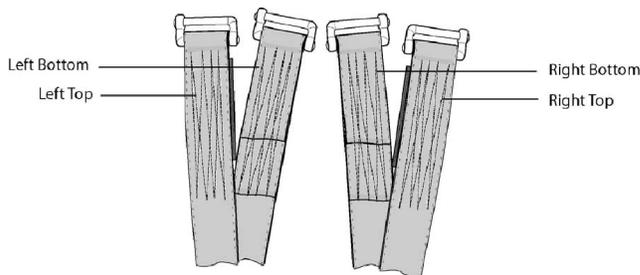
New canopies received from supply may have the Double "L" Connector Links installed.

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 39).



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

Figure 39. 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 025 04.

ORGANIZATIONAL, INTERMEDIATE AND DEPOT MAINTENANCE
ILLUSTRATED PARTS BREAKDOWN
A/P22P-11 EMERGENCY EGRESS CREW BACKPACK ASSEMBLY
PART NO. 123AB50510-3

List of Effective Work Package Pages

<u>Page No.</u>	<u>Chg. No.</u>						
1	11	3 thru 4	11	5 thru 8	9	9	11
2	9						

Reference Material

Intermediate and Depot Maintenance, Packing Procedures, A/P22P-11 Emergency Egress Crew Backpack Assembly WP 025 02

Alphabetical Index

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

List of Figures

<u>Title</u>	<u>Page</u>
A/P22P-11 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 A/P22P-11 Emergency Egress Crew Backpack Assembly (Figure 1).

b. Following usable on codes apply to this WP:

A - E-2C

2. USABLE ON CODES.

a. The usable on codes in this WP refer to the aircraft applications for the A/P22P-11 Emergency Egress Crew Backpack Assembly.

3. SERVICE LIFE.

a. The service/total life information is contained in WP 025 02.

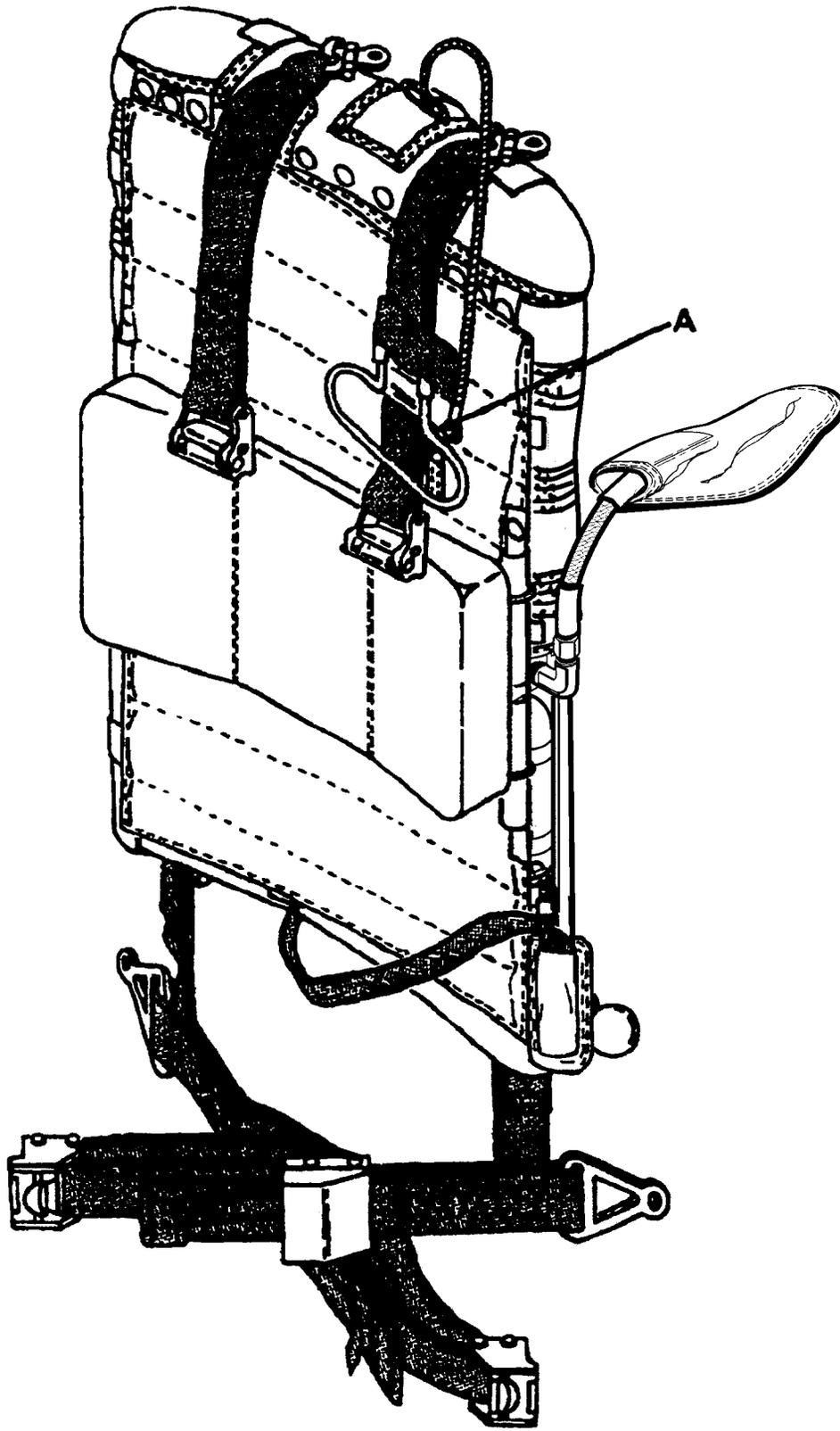


Figure 1. A/P22P-11 Emergency Egress Crew Backpack Assembly (Sheet 1 of 8)

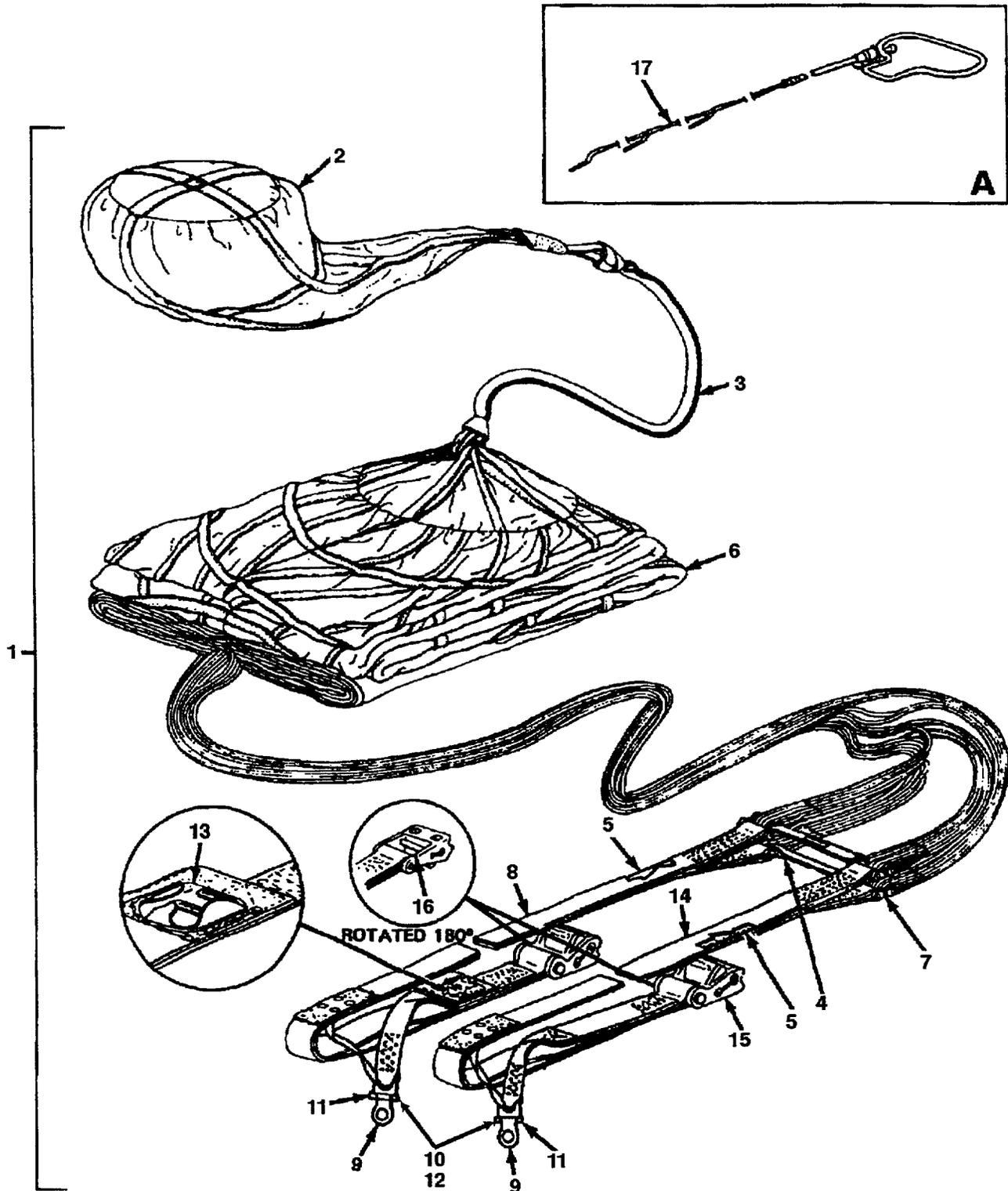
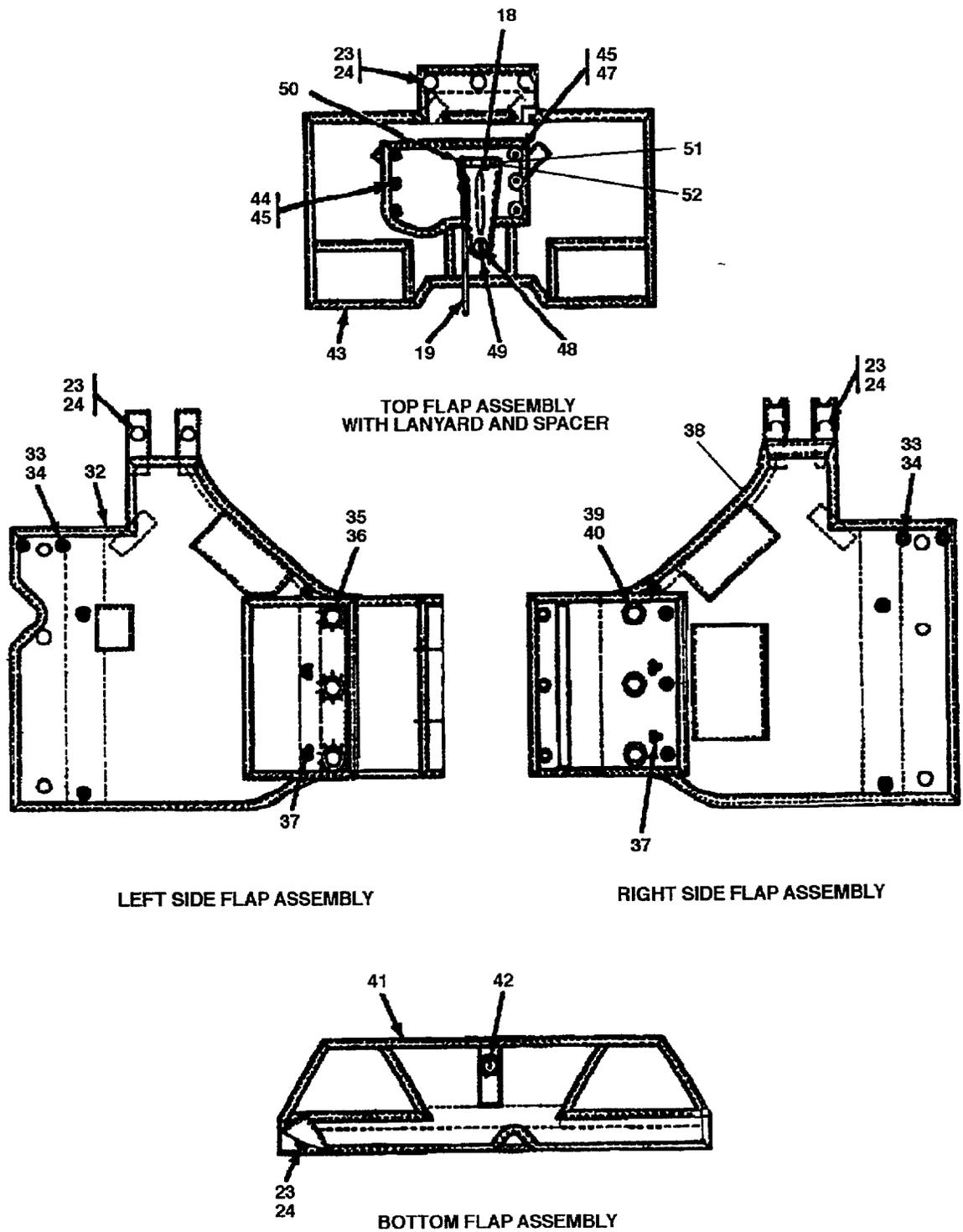


Figure 1. A/P22P-11 Emergency Egress Crew Backpack Assembly (Sheet 2 of 8)

INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SM&R CODE
	123AB50510-3	BACK PACK ASSEMBLY, CREW BACK PACK	1	A	AGOGG
1	123AB50517-5	. RISER ASSEMBLY, PARACHUTE CANOPY CREW BACK	1		AGOGG
2	60A125E16-1	. . PARACHUTE ASSEMBLY, PILOT	1		PCGZZ
3	666AS100-1	. . STRAP CONNECTOR, PILOT PARACHUTE . .	1		PCGZZ
4	677AS100-2	. . STRAP, CROSS CONNECTOR	2		PCGGG
5	1979AS400-1	. . RISER ASSEMBLY	1	*	PCGGG
	123AB50542-9	. . RISER ASSEMBLY (USE UNTIL EXHAUSTED)	1	*	PCGGG
6	60A114E3-1	. . CANOPY ASSEMBLY	1	*	PCGGG
	60A114E3-27	. . CANOPY ASSEMBLY (WITH DOUBLE "L" . . . CONNECTOR LINK INSTALLED)	1	*	PCGGG
7	MS22021-1	. . . LINK, REMOVABLE CONNECTOR	4	*	PAGZZ
	MS22002-1	. . . CONNECTOR LINK (DOUBLE "L")	4	*	PAGZZ
8	1979AS400-2	. . . RISER, LEFT	1	*	XAZZZ
	123AB50542-25	. . . RISER, LEFT (USE UNTIL EXHAUSTED)	1	*	XAZZZ
9	123ABM50500-11	. . . . FITTING, SHOULDER HARNESS	2		XBGZZ
10	AN960C6L	. . . . . WASHER, FLAT	4		PAGZZ
11	GB511DU06C15	. . . . . BOLT, PANHEAD	2		PAGZZ
12	79NKTM-62	. . . . . NUT, HEX /72962/	2		PAGZZ
13	60A116C10-1	. . . . . CLIP, RIPCORDER GRIP	1		PAGZZ
14	1979AS400-3	. . . RISER, RIGHT	1	*	XAZZZ
	123AB50542-501	. . . RISER, RIGHT (USE UNTIL EXHAUSTED)	1	*	XAZZZ
15	990055-1	. . RELEASE ASSEMBLY, CANOPY /99449/	2	*	PAOGG
	015-10307-5	. . RELEASE ASSEMBLY,CANOPY /99449/ (USE UNTIL EXHAUSTED)	2	*	PAOGG
16	122-10935-3	. . . SETSCREW, PIN END /99449/	2		PAOZZ
17	123AB50523-1	. . RIPCORDER ASSEMBLY PARACHUTE	1		PAGZZ
18	711-07094	. . SPACER /52497/	1		PAGZZ
19	123AB50540-3	. . LANYARD, CLAMP RELEASE (MAKE FROM 60A116D26-2)	1		MGGZZ
20	123AB50513-9	. . CUSHION ASSEMBLY	1		AGOGG
21	123AB50513-45	. . . CUSHION	1		PAOZZ
22	123AB50513-43	. . . BACKPAD	1		PAOZZ
23	MS27983-1B	. . . . SNAP, FASTENER BUTTON	24		PAGZZ
24	MS27983-2B	. . . . SNAP, FASTENER SOCKET	24		PAGZZ
25	MS27980-10B	. . . . FASTENER, EYELET	26		PAGZZ
26	123AB50529-1	. STRAP ASSEMBLY, ANTI-ROTATION	1		MGGGG
27	123AB50529-3	. . SPRING ASSEMBLY	1		PAGZZ
28	123AB50530-39	. . FITTING	1		PAGZZ
29	123AB50511-3	. CONTAINER ASSEMBLY, WITH PARACHUTE/RISER	1		AGOGG
30	990060-1	. . LAPBELT RELEASE	2	*	AGOGG
	015-11365-1	. . LAPBELT RELEASE (USE UNTIL EXHAUSTED)	2	*	AGOGG

Figure 1. A/P22P-11 Emergency Egress Crew Backpack Assembly (Sheet 3 of 8)

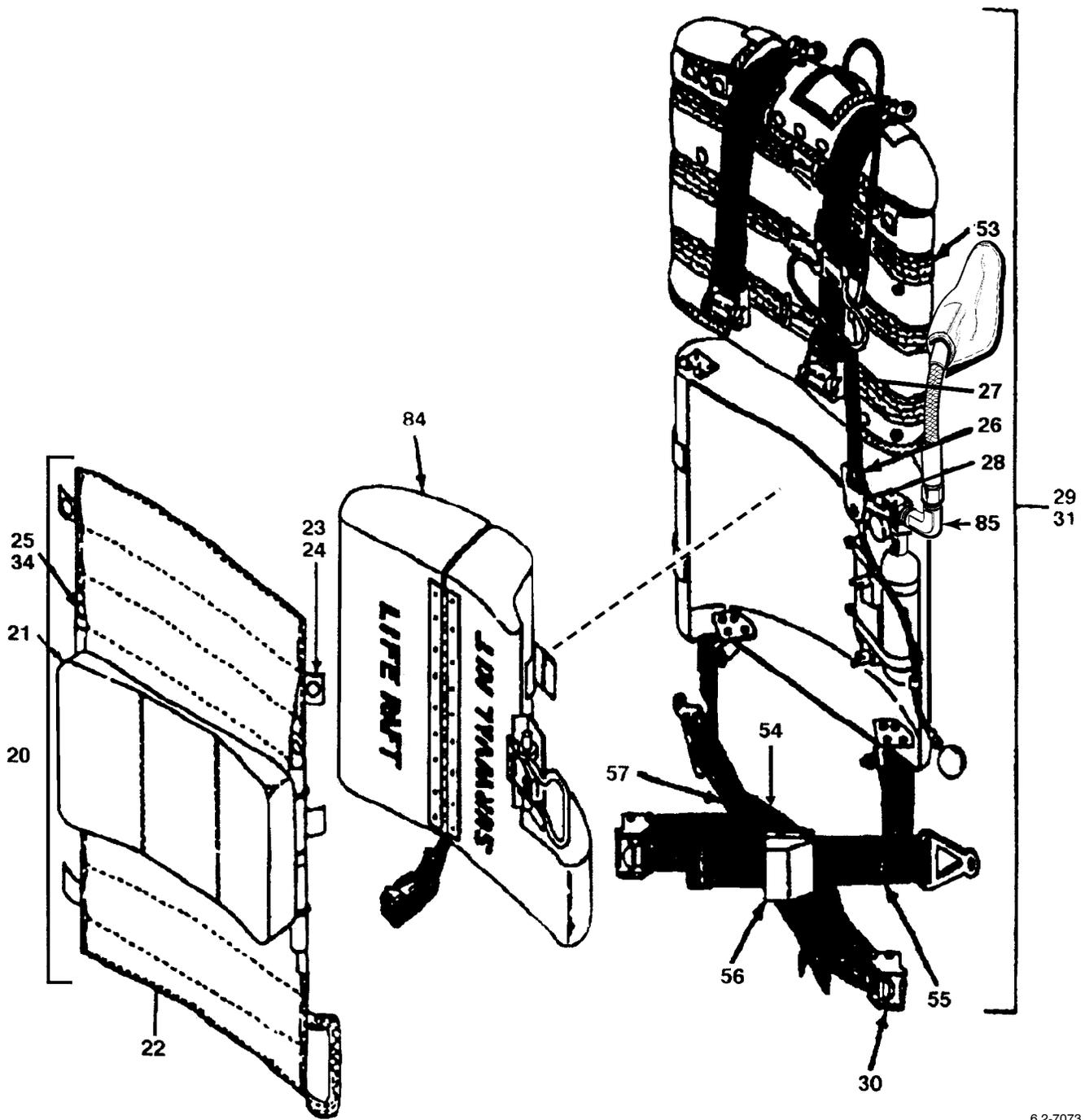


6.2-7072

Figure 1. A/P22P-11 Emergency Egress Crew Backpack Assembly (Sheet 4 of 8)

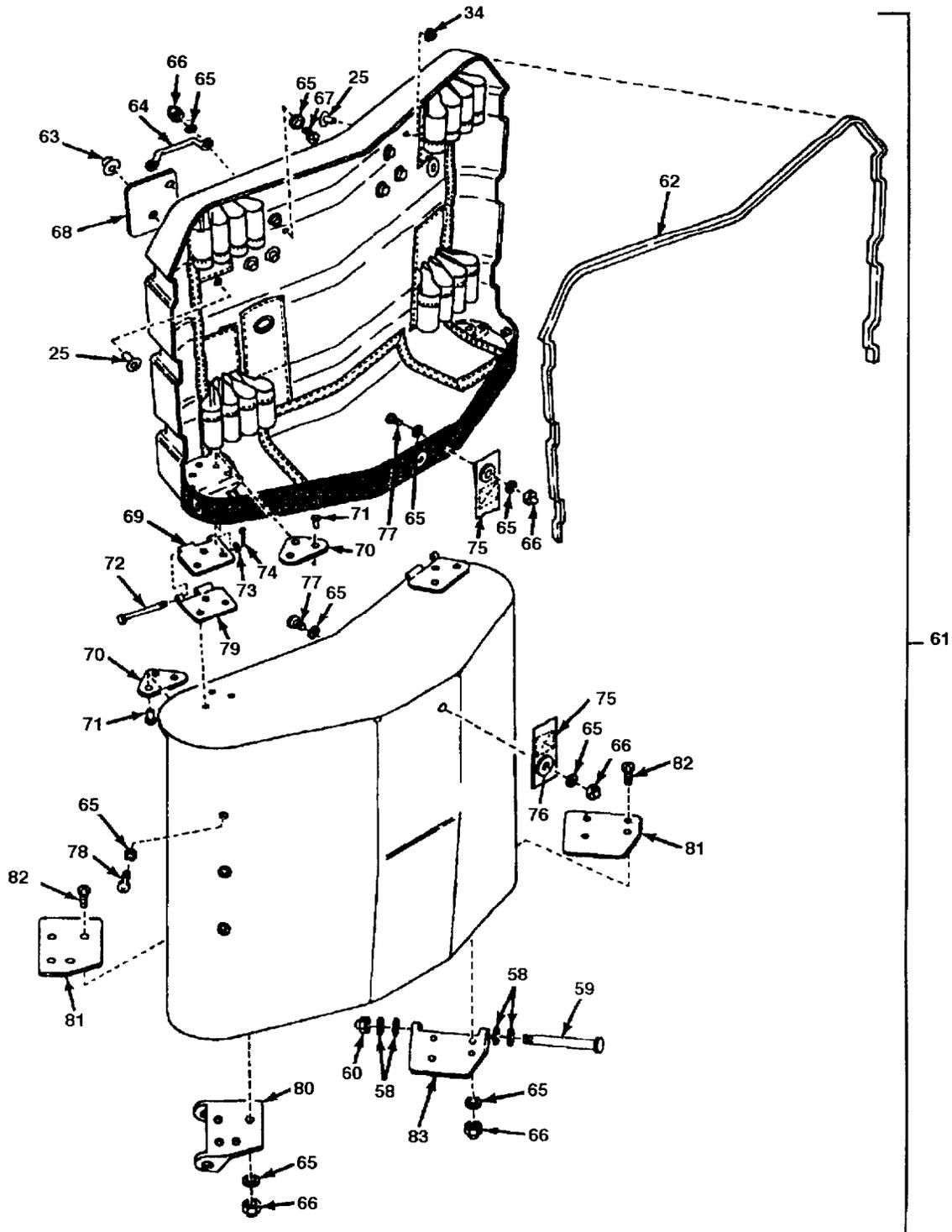
INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
31	123AB50515-3	.	.						1		PAGZZ
											PARACHUTE CREW BACK
32	123AB50520-7	.	.	.					1		PCGZZ
											FLAP ASSEMBLY, LEFT
33	MS27983-4	.	.	.	.				11		PAGZZ
34	MS27983-3	.	.	.	.				25		PAGZZ
35	GW502CV1	.	.	.	.				3		PAGZZ
36	MS22048WC1	.	.	.	.				3		PAGZZ
37	60A113C28-1	.	.	.	.				6		PAGZZ
38	123AB50520-9	.	.	.					1		PCGZZ
39	MS22048GC2	.	.	.	.				3		PAGZZ
40	MS22048WC2	.	.	.	.				3		PAGZZ
41	123AB50521-7	.	.	.					1		PCGZZ
42	60A113C31-1	.	.	.	.				1		PAGZZ
43	123AB50521-3	.	.	.					1		PCGZZ
44	MS27981-5	.	.	.	.				3		PAGZZ
45	MS27981-4	.	.	.	.				3		PAGZZ
46	MS27981-1	.	.	.	.				3		PAGZZ
47	MS27981-3	.	.	.	.				3		PAGZZ
48	60A113C24-1	.	.	.	.				1		PAGZZ
49	60A113D16-1	.	.	.	.				1		PAGZZ
50	60A116C27-1	.	.	.	.				1		PAGZZ
51	60A116C25-1	.	.						1		PAGZZ
52	60A116C28-1	.	.						1		PAGZZ
53	60A113D11-3	.	.	.					6	*	PAGZZ
											SPRING ASSEMBLY, CONTAINER OPENING
	MS70105-7	.	.	.					6	*	PAGZZ
											SPRING ASSEMBLY, CONTAINER OPENING
54	123AB50516-4	.							1		PAGZZ
55	123AB50516-1	.	.	.					1		PCOZZ
56	184C100-1	.	.	.	.				2		PCOZZ
	015-12231-2	.	.	.	.				2	*	PCOZZ
	GA506D1	.	.	.	.				2	*	PCOZZ
57	123AB50516-2	.	.	.	.				1		XAOZZ
58	AN960-416	.	.	.	.				8		PAGZZ
59	AN4-27A	.	.	.	.				2		PAGZZ
60	52-NKTM-048	.	.						2		PAGZZ
61	123AB50518-5	.	.						1		PAGGG
62	GS179AP4	.	.	.					1		PCGGG
63	MS27980-7N	.	.	.	.				12		PAGZZ
64	GL514A1	.	.	.	.				1		XBGZZ
65	AN960D10L	.	.	.	.				19		PAGZZ
66	22NKTM-02	.	.	.	.				12		PAGZZ
67	MS27039-1-07	.	.	.	.				2		PAGZZ
68	123AB50530-15	.	.	.	.				2		XBGZZ
											PLATE

Figure 1. A/P22P-11 Emergency Egress Crew Backpack Assembly (Sheet 5 of 8)



6.2-7073

Figure 1. A/P22P-11 Emergency Egress Crew Backpack Assembly (Sheet 6 of 8)



6.2-7074

Figure 1. A/P22P-11 Emergency Egress Crew Backpack Assembly (Sheet 7 of 8)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
69	123AB50518-3	.	.	.	.	HINGE ASSEMBLY			2	XBGZZ
70	123AB50530-17	.	.	.	.	STIFFENER			6	XBGZZ
71	NAS1200M5-5	.	.	.	.	RIVET			9	PAGZZ
72	MS20392-2C51	.	.	.	.	PIN, STRAIGHT			2	PAGZZ
73	NAS620C10L	.	.	.	.	WASHER, FLAT			2	PAGZZ
74	MS24665-151	.	.	.	.	PIN, COTTER			2	PAGZZ
75	123AB50551-1	.	.	.	.	STOP ASSEMBLY			1	MGGZZ
76	MS20230BS10	.	.	.	.	GROMMET ASSEMBLY			2	PAGZZ
77	1581A3R2	.	.	.	.	SCREW, PANHEAD			2	PAGZZ
78	AS553R3-3-8S	.	.	.	.	SCREW, CAPTIVE			3	PAGZZ
79	123AB50518-11	.	.	.	.	HINGE ASSEMBLY			2	XBGZZ
80	123AB50501-11	.	.	.	.	FITTING, LEFT			1	XBGZZ
81	123AB50530-27	.	.	.	.	STIFFENER			2	XBGZZ
82	MS24694S50	.	.	.	.	SCREW, PANHEAD			8	PAGZZ
83	123ABM50501-12	.	.	.	.	FITTING, RIGHT			1	XBGZZ
84	123AB50512-3	.	SEAT SURVIVAL KIT, SKK-9/P22-11							1	AGOGG
			(BREAKDOWN, NAVAIR 13-1-6.1, NAVAIR 13-1-6.3)								
85	269D200-3	.	SYSTEM ASSEMBLY, EMERGENCY							1	AGOGG
			OXYGEN (ASSEMBLY W/SUPPORT BREAKDOWN IN NAVAIR 13-1-6.4-1)								

Figure 1. A/P22P-11 Emergency Egress Crew Backpack Assembly (Sheet 8 of 8)

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