
ORGANIZATIONAL AND DEPOT MAINTENANCE

REPAIR PROCEDURES

MK-H7 DROGUE PARACHUTE SYSTEM

PART NO. MBEU38272

List of Effective Work Package Pages

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Reference Material

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

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Record of Applicable Technical Directives

None

1. INTRODUCTION.

a. This Work Package (WP) contains instructions for organizational and depot level repair to ensure that the drogue parachute parts or subassemblies remains in Ready-For-Issue (RFI) status. Selected repairs shall be documented on the Parachute Record. For common repairs refer to WP 004 00.

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

(1) Review all applicable instructions prior to starting repair.

(2) Ensure that all necessary support equipment and materials required are available prior to starting repair.

(3) When required, remove enough material from it's source for immediate use only. Ensure that the material identification ticket remains with the source material at all times. Material that cannot be identified will not be used.

(4) To ensure conformity, all repair work shall be carefully inspected and compared to applicable instructions at completion of work.

(5) A Quality Assurance (QA) inspector shall examine the finished work.

2. CONTAINER ASSEMBLY.

3. REPLACEMENT OF FLAP SECURING PIN RETENTION TIE.

Materials Required

Specification or Part Number

Nomenclature

V-T-295

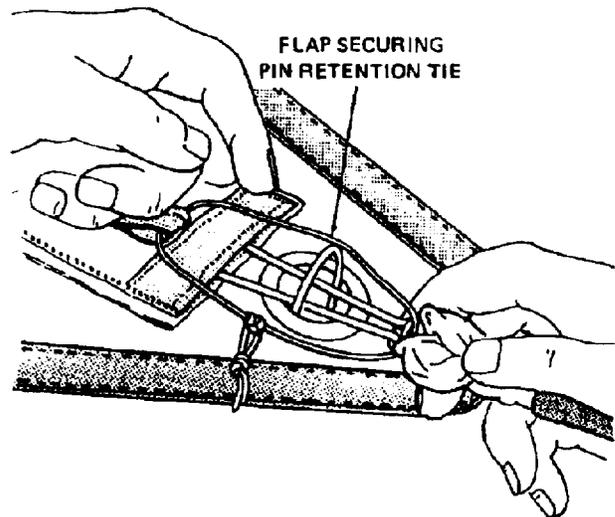
Thread, Nylon, Size 6, Type I, or II Class A

NOTE

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

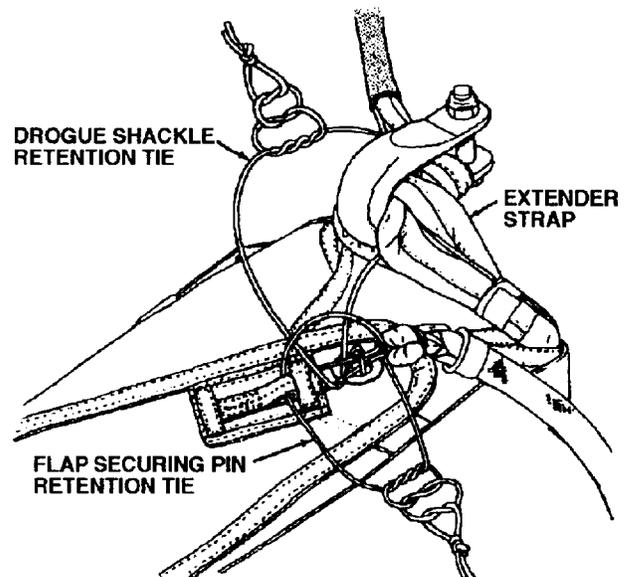
a. Ensure pin is inserted into fabric pocket on front flap (Figure 1).

b. Pass a length of size 6 thread, single and waxed, thru securing pin and then thru fabric loop on pocket; tie off (Figures 1 and 2).



6.2-5660

Figure 1. Flap Securing Pin Retention Tie Replacement



6.2-5661

Figure 2. Drogue Shackle Retention Tie Replacement

4. REPLACEMENT OF DROGUE SHACKLE RETENTION TIE.

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. Pass a length of size 6 thread, single and waxed, thru loop on extender strap, thru shackle, and then around both legs of securing pin forward loop; tie off (Figure 2).

5. DROGUE PARACHUTE ASSEMBLY REPAIRS.

a. Repair of the drogue parachute assembly is limited to the following:

- (1) Cleaning of contaminated areas.
- (2) Replacement of stabilizer drogue, controller drogue, connecting line, extender strap and shackle, and withdrawal line.
- (3) Repair of holes, tears or snags in canopy 1/4-in. in diameter or 1/2-in. in length.

6. REPLACEMENT OF EXTENDER STRAP AND SHACKLE.

Materials Required

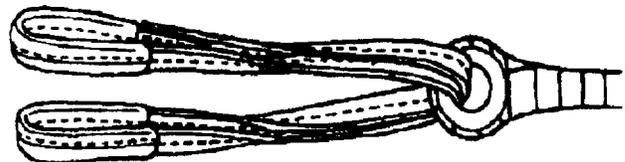
Specification or Part Number	Nomenclature
PPP-T-97	Reinforcing Tape Filament, 3/4 in. Wide -or-
MIL-I-19166	Insulation Tape. Electrical 3/4-in. Wide

a. Cut filament tape and remove extender strap and shackle from stabilizer drogue.

b. Inspect replacement extender strap for contamination, cuts, tears, burns, fraying, and loose or missing stitches.

c. Inspect shackle for nicks, burrs, and corrosion.

d. Pass extender strap thru eye end of main drogue suspension lines (Figure 3).



6.2-5232A

Figure 3. Pass Extender Strap thru Eye

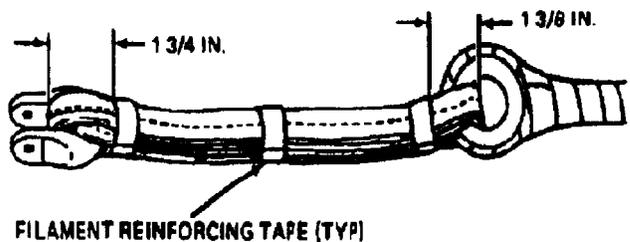
e. Position end loops of straps on shackle (Figure 4).



6.2-5232B

Figure 4. Positioning of End Loops

f. Wrap with four turns of 3/4 in. wide filament reinforcing tape in three places (Figure 5). (QA)



6.2-5232C

Figure 5. Wrapping with Filament Tape

g. Mark date placed in service on extender strap. (QA)

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

7. REPLACEMENT OF STABILIZER DROGUE.

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 extender strap and shackle from stabilizer drogue and retain for reinstallation per Paragraph 6.
- b. Cut tacking on connecting line at apex of stabilizer drogue.
- c. Route complete controller drogue thru loop of connecting line at apex of stabilizer drogue.
- d. Dispose of stabilizer drogue per current supply directives.
- e. Inspect replacement stabilizer drogue fabric drag surface, seams, and suspension lines for signs of contamination, mildew, cuts, tears, burns, fraying, and loose or broken stitches.
- f. Inspect anti-squid line for proper attachment at canopy apex (Figure 6). (QA)

g. Suspension lines and anti-squid line from canopy lower lateral band to confluence point for frays, ruptures, contamination, protruding inner core lines, presence of twists, attachment of suspension lines and V-tabs at lower lateral band and security and condition of wrapping at confluence point.

h. Inspect braided tubular cover for frays, ruptures, contamination, security of wrappings, and serving at the eye.

i. Pass free end loop of connecting line around apex suspension lines of replacement stabilizer drogue (Figure 7). Route complete controller drogue thru loop of connecting line and pull tight. Tack loop with one turn of size 6 thread, double and waxed; tie off. (QA)

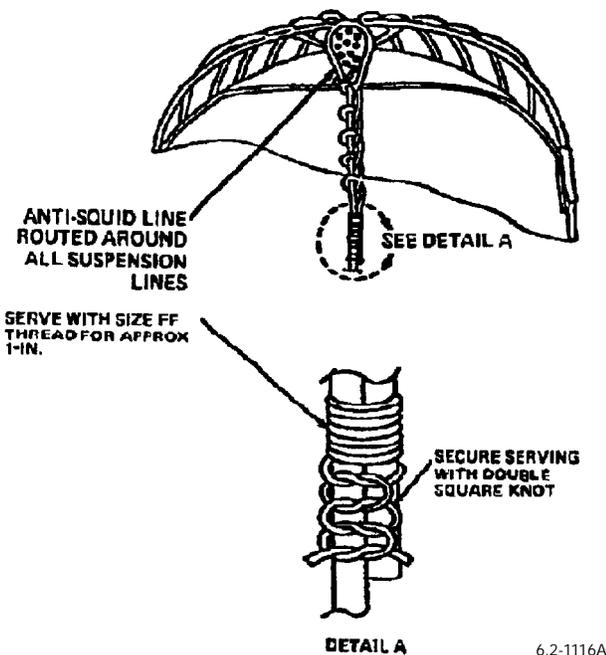
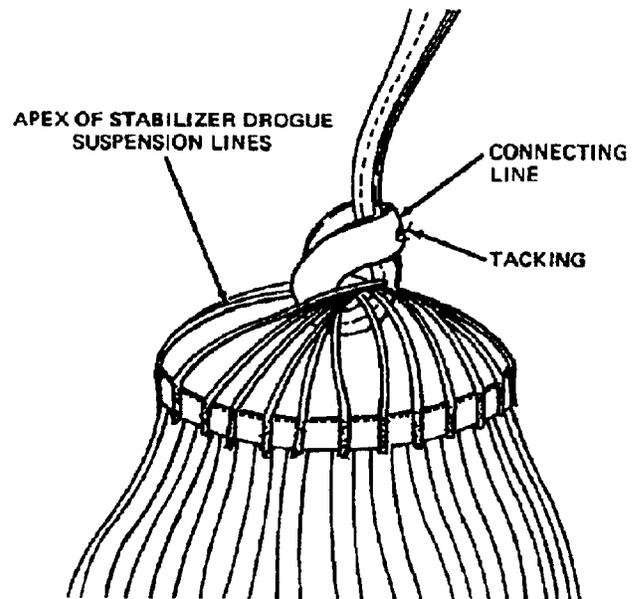


Figure 6. Anti-Squid Line Attachment



6.2-5230

Figure 7. Replacement of Stabilizer Drogue

j. Install extender strap and shackle per Paragraph 6.

k. Mark date placed in service on stabilizer drogue.

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

6.2-1116A

8. REPLACEMENT OF CONNECTING LINE.

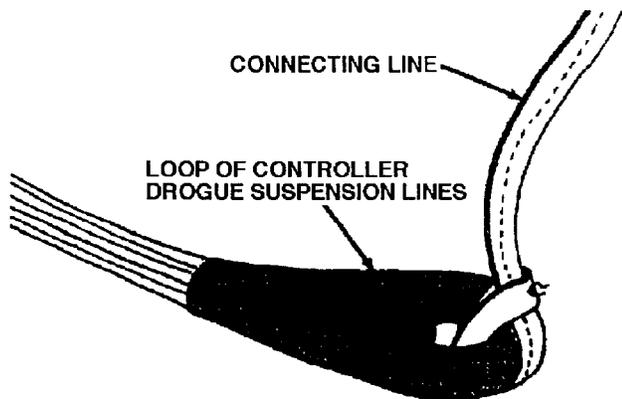
Materials Required

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. Cut tacking on connecting line at apex of stabilizer drogue.
- b. Route complete controller drogue thru loop of connecting line at apex of stabilizer drogue.
- c. Cut tacking on connecting line at base loop of controller drogue and remove connecting line.
- d. Inspect replacement connecting line for contamination, cuts, fraying, burns, and loose or broken stitching. Pass one looped end of replacement connecting line thru base loop of controller drogue (Figure 8). Route opposite end of line thru loop and pull tight. Tack loop with one turn of size 6 thread, doubled and waxed; tie off.



6.2-5229

Figure 8. Replacement of Controller Drogue

- e. Pass free end loop of connecting line around apex suspension lines of stabilizer drogue (Figure 7). Route complete controller drogue thru loop of connecting line and pull tight. Tack loop with one turn size 6 thread, double, and waxed; tie off. (QA)
- f. Mark date placed in service on connecting line.

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

9. REPLACEMENT OF CONTROLLER DROGUE.

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. Cut withdrawal line tacking at apex of controller drogue and remove withdrawal line.
- b. Cut tacking on connecting line at apex of stabilizer drogue.
- c. Route controller drogue thru loop of connecting line at apex of stabilizer drogue.
- d. Cut tacking on connecting line at base loop of controller drogue and remove connecting line.
- e. Dispose of controller drogue per current supply directives.
- f. Inspect replacement controller drogue fabric drag surface, seams, and suspension lines at canopy apex for signs of contamination, mildew, cuts, tears, burns, fraying, and loose or broken stitching.
- g. Anti-squid line for contamination, cuts, fraying, burns, loose or broken stitching, and security of attachment at canopy apex and terminal eye. (QA)
- h. Suspension lines:
 - (1) Lines from canopy skirt hem to terminal eye for frays, ruptures, and contamination.
 - (2) Protruding inner core lines, presence of twists in individual lines and security of attachment of lower lateral band.
 - (3) Security and condition of wrapping at terminal eye.

i. Pass one looped end of connecting line thru base loop of replacement controller drogue (Figure 8). Route opposite end of line thru loop and pull tight. Tack loop with one turn of size 6 thread, double and waxed; tie off. (QA)

j. Pass free end loop of connecting line around apex suspension lines of stabilizer drogue (Figure 7). Route complete controller drogue thru loop of connecting line and pull tight. Tack loop with one turn of size 6 thread, double and waxed; tie off. (QA)

k. Reinstall controller drogue withdrawal line per Paragraph 10.

l. Mark date placed in service on controller drogue.

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

10. REPLACEMENT OF CONTROLLER DROGUE WITHDRAWAL LINE.

Materials Required

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

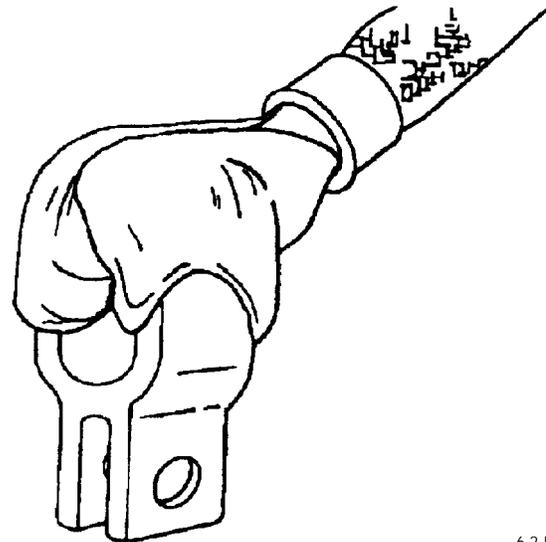
NOTE

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

a. Cut withdrawal line tacking at apex of controller drogue and remove withdrawal line.

b. Inspect replacement withdrawal line for contamination, cuts, fraying, burns, and loose or broken stitching.

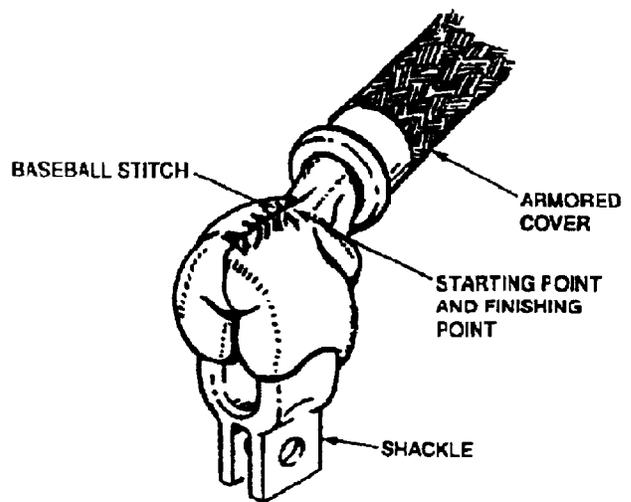
c. Draw edges of withdrawal line upward to butt at center-line of shackle (Figure 9).



6.2-5231A

Figure 9. Draw Up Edges to Shackle

d. Using size FF thread, doubled and waxed. Baseball stitch edges together. Stitches to be about 1/4-in. apart and 1/4-in. from edges of withdrawal line. Start and finish stitch at armored cover end, alternating stitches from one edge of withdrawal line. Start and finish stitch at armored cover end, alternating stitches from one edge of withdrawal line to the opposite edge about 6 stitches) tie off (Figure 10). (QA)



6.2-5231B

Figure 10. Whipstitch Edges Together

e. Hold five controller drogue apex lines centrally to form two clear diametrically opposite openings. Pass loop end of drogue withdrawal line in one side of centrally held apex lines, thru small loop of anti-squid line and out other side of apex lines (Figure 11).

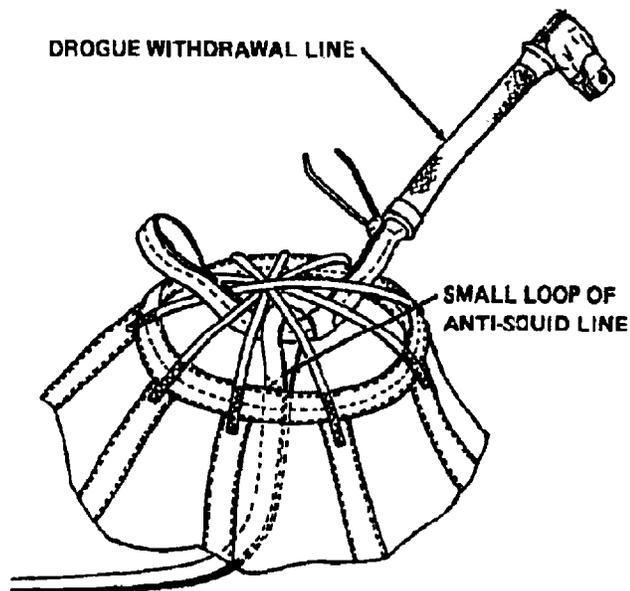


Figure 11. Holding Five Controller Drogue Apex Lines

6.2-5231C

f. Pass spool/shackle end of withdrawal line over outside of apex lines and thru loop at opposite end of withdrawal line (Figure 12). Pull tight to form Lark's head knot. Tack with one turn of size 6 thread, doubled and waxed; tie off. (QA)

g. Mark date placed in service on withdrawal line.

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

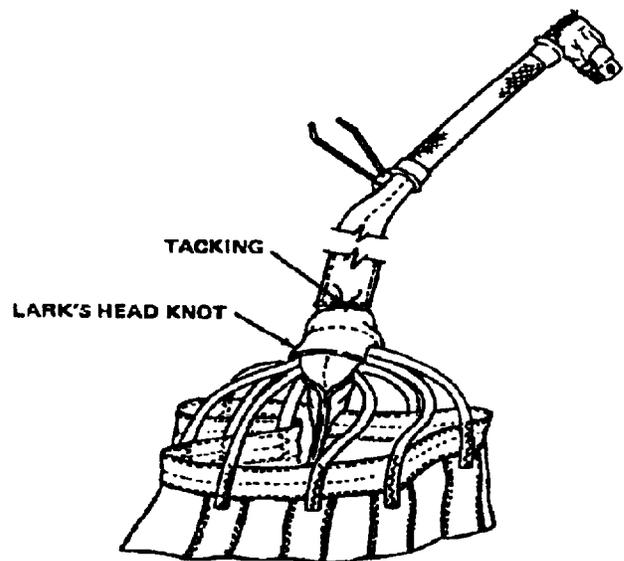


Figure 12. Pass Spool/Shackle End of Line Over Apex Lines

6.2-5231D

11. REPLACEMENT OF LINK LINE.

a. Remove link line from drogue shackle.

b. Inspect replacement link line webbing for fraying, cuts, tears, and contamination; neoprene sleeve for cuts; pins for nicks, burrs, and corrosion.

c. Install replacement link line on drogue shackle and tighten shackle bolt until one thread is visible. (QA)

d. Mark date placed in service on link line.

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

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ORGANIZATIONAL AND DEPOT MAINTENANCE

PACKING PROCEDURES

MK-H7 DROGUE PARACHUTE SYSTEM

PART NO. MBEU38272

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Reference Material

Introduction, Organizational, Intermediate and Depot Maintenance With Illustrated Parts Breakdowns,
Emergency Personnel and Drogue Parachute Systems WP 002 00

Organizational and Depot Maintenance, Illustrated Parts Breakdown, MK-H7 Drogue Parachute System WP 015 02

Organizational, Intermediate and Depot Maintenance, Parachute Loft Requirements/Administration WP 003 00

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Layout of Drogue Parachute Assembly	2

Record of Applicable Technical Directives

None

1. GENERAL.

a. Rigging and packing instructions are provided with the assumption that they will be carried out under ideal conditions in a parachute loft (WP 003 00). When a drogue 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 drogue parachute assembly be interrupted after the packing operation has been started. If the packing operation is interrupted, due to unforeseen circumstances, the drogue parachute assembly shall be completely repacked per the instructions contained in this Work Package (WP).

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

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

2. PRELIMINARY PROCEDURES.

Support Equipment Required

Part Number	Nomenclature
—	Stamp Pad
—	Rubber Stamp Kit
—	-or-
	Adjustable Metal Stencil,
	-or-
Style No. 8	Printing Set,
	-or-
GG-P-655	Printing Set

Materials Required

Specification or Part Number	Nomenclature
MIL-I-6903	Ink, Parachute Marking, Light Blue
TT-I-1795	Ink, Marking Black

Specification or Part Number	Nomenclature
V-T-295	Thread, Nylon, Size FF, Type I or II, Class A
PPP-T-97	Reinforcing Tape, Filament, 3/4-in. Wide
	-or-
MIL-I-19166	Insulation Tape, Electrical, 3/4-in. Wide

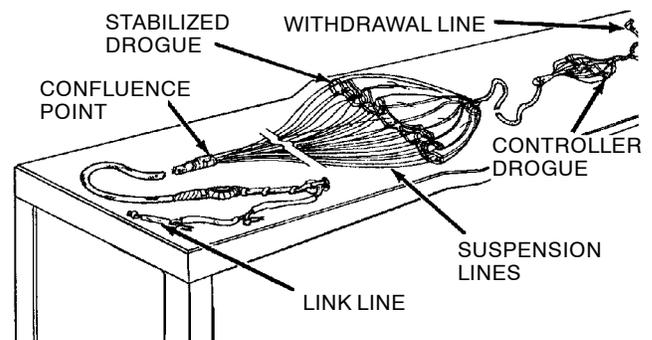
a. To prepare the drogue parachute assembly for rigging and packing, perform the following:

- (1) Ensure that all support equipment and materials required are available prior to starting.
- (2) Inspect packing tools for nicks, burrs, or sharp edges which may cause damage to the drogue parachute assembly.
- (3) Count and record number of packing tools.
- (4) Clean packing table.

3. ORIGINAL ISSUE RIGGING PROCEDURES (ORGANIZATIONAL MAINTENANCE).

4. LAYOUT OF DROGUE PARACHUTE ASSEMBLY.

a. Lay out drogue parachute assembly on packing table per Figure 1.



6.2-5727

Figure 1. Layout of Drogue Parachute Assembly

5. ATTACHMENT OF CONNECTING LINE TO CONTROLLER DROGUE AND STABILIZER DROGUE.

NOTE

Tie off all tackings with 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. Pass one looped end of connecting line thru base loop of controller drogue (Figure 2). Route opposite end of line thru loop and pull tight. Tack loop with one turn of size 6 thread, doubled and waxed; tie off.

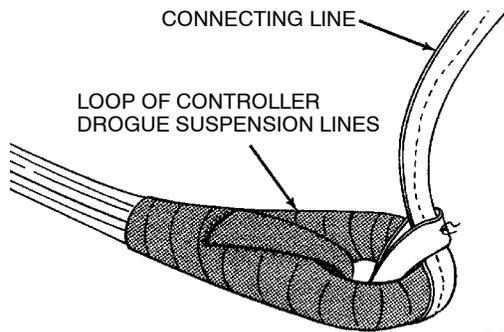


Figure 2. Attachment of Connecting Line to Controller Drogue

b. Pass free end loop of connecting line around apex suspension lines of stabilizer drogue (Figure 3). Route complete controller drogue thru loop of connecting line and pull tight. Tack loop with one turn of size 6 thread, doubled and waxed; tie off.

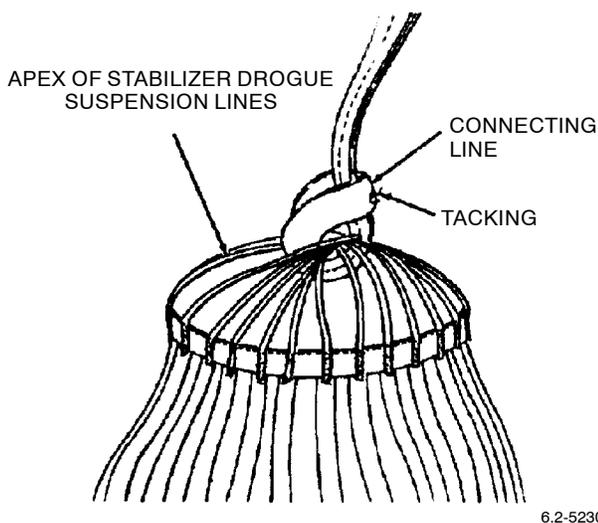


Figure 3. Attachment of Connecting Line to Stabilizer Drogue

6. ATTACHMENT OF ANTI-SQUID LINE TO CONTROLLER DROGUE.

a. Pass large loop end of anti-squid line thru loop inside drogue suspension line union.

b. Pass small loop end of anti-squid line thru large loop and pull tight to form a knot (Figure 4).

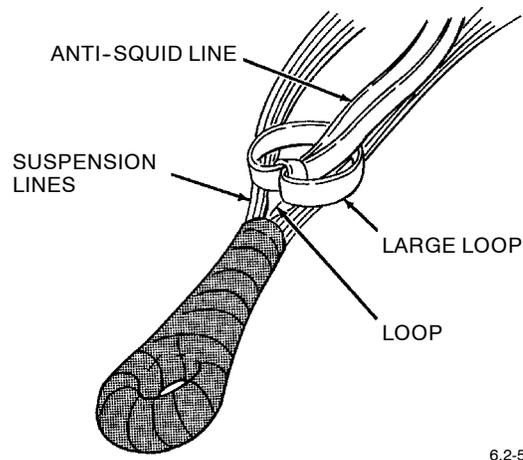


Figure 4. Attachment of Anti-Squid Line to Controller Drogue

7. ATTACHMENT OF EXTENDER STRAP AND SHACKLE TO STABILIZER DROGUE.

a. Pass extender strap thru eye end of main drogue suspension lines (Figure 5).

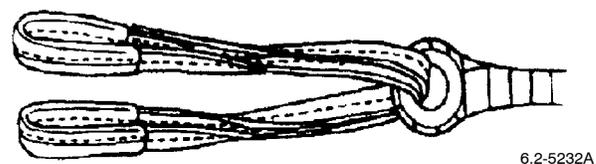


Figure 5. Pass Extender Strap thru Eye

b. Position end loops of straps on shackle (Figure 6).

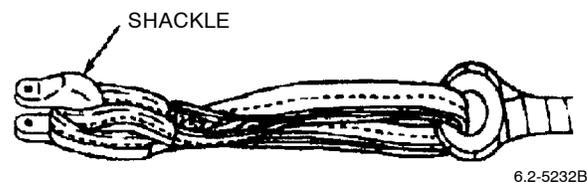
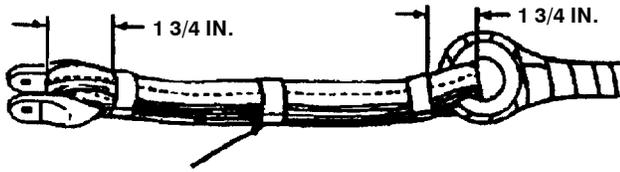


Figure 6. Positioning of End Loops

c. Wrap with four turns of 3/4-in. wide filament reinforcing tape in three places (Figure 7).



FILAMENT REINFORCING TAPE (TYP)

6.2-5232C

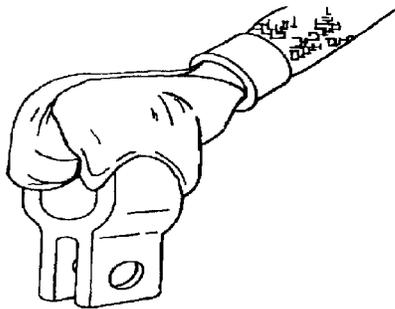
Figure 7. Wrapping with Filament Tape

8. ATTACHMENT OF DROGUE WITHDRAWAL LINE TO CONTROLLER DROGUE.

NOTE

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

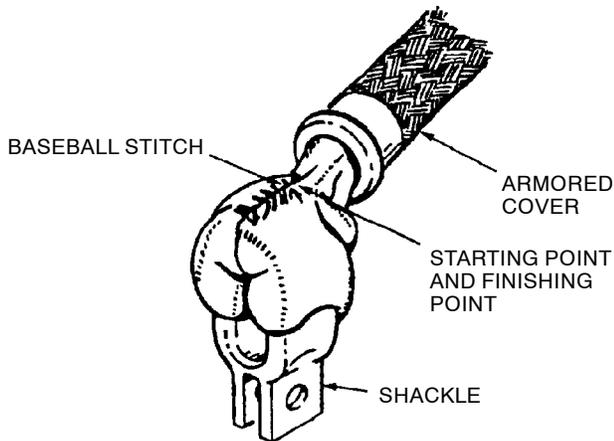
a. Draw edges of withdrawal line upward to butt at center-line of shackle (Figure 8).



6.2-5231A

Figure 8. Draw Up Edges to Shackle

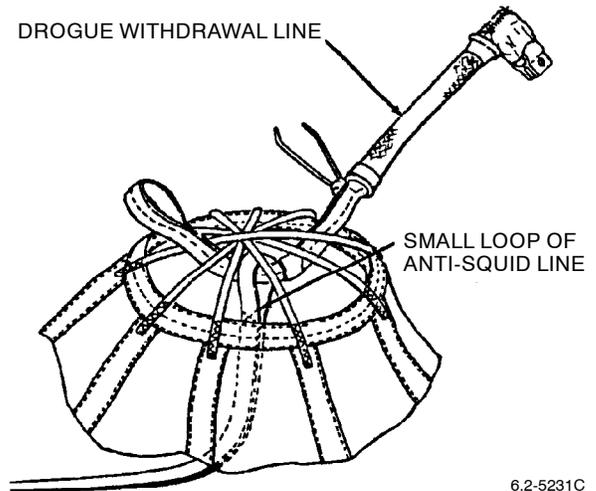
b. Using size FF thread, doubled and waxed, whipstitch edges together (Figure 9). Stitches will be about 1/8-in. in length and 1/8-in. from edges of withdrawal line. (Normally, only six stitches will be required.) Tie off. (QA)



6.2-5231B

Figure 9. Whipstitch Edges Together

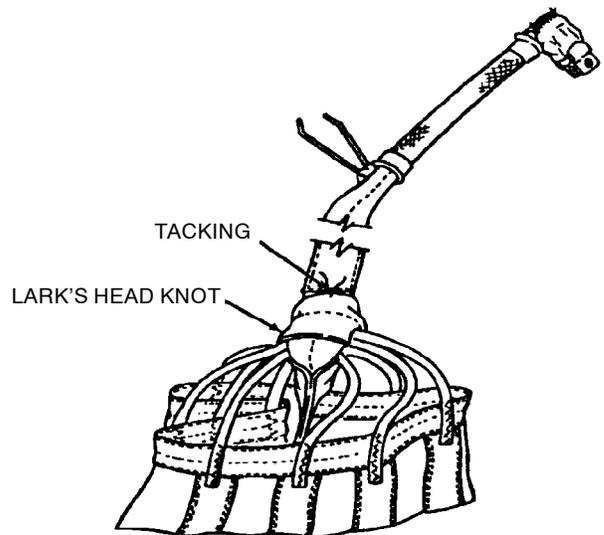
c. Hold five controller drogue apex lines centrally to form two clear diametrically opposite openings. Pass loop end of drogue withdrawal line in one side of centrally held apex lines, thru small loop of anti-squid line and out other side of apex lines (Figure 10).



6.2-5231C

Figure 10. Holding Five Controller Drogue Apex Lines

d. Pass spool/shackle end of withdrawal line over outside of apex lines and thru loop at opposite end of withdrawal line (Figure 11). Pull tight to form lark's head knot. Tack with one turn of size 6 thread, doubled and waxed. Tie off. (QA)



6.2-5231D

Figure 11. Pass Spool/Shackle End of Line Over Apex Lines

9. INSPECTION (SPECIAL) (ORGANIZATIONAL MAINTENANCE).

- a. Maximum scheduled repack cycle is 210 days.

10. SERVICE LIFE CHECK AND CONFIGURATION UPDATING.

NOTE

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

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

NOTE

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

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

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

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

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

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

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

Nomenclature	Service Life (Yr)	Total Life (Yr)
5 Ft. Stabilizer Drogue	None	10
22-in. Controller Drogue	None	10
Connecting Line	None	10
Extender Strap	None	13
Link Line	2	10
Withdrawal Line	2	10

NOTE

All metal parts shall remain in-service until they fail to meet inspection criteria.

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

- (2) Compare configuration drogue parachute assembly to that shown in WP 015 02.

11. INSPECTION.

- a. Controller Drogue

- (1) Withdrawal Line shackle for nicks, burrs, dirt, and corrosion, proper attachment of shackle to withdrawal line, and security of tackings. (QA)

- (2) Armored cover for broken strands, security of end ferrules, and presence of dirt and corrosion (Figure 12).

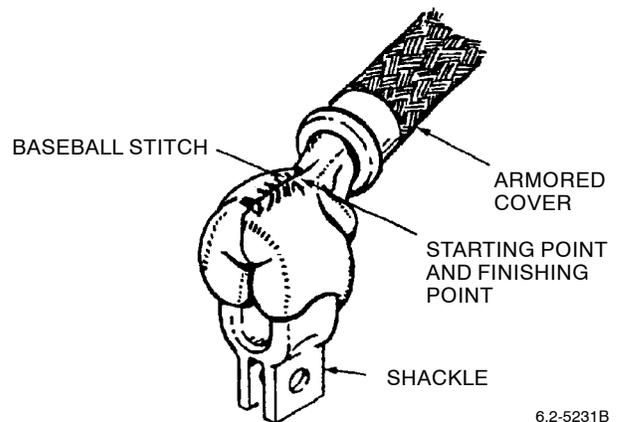


Figure 12. Inspection of Shackle

- (3) Flap Securing pin for nicks, burrs, dirt, corrosion, bends, and proper attachment to withdrawal line (Figure 13).

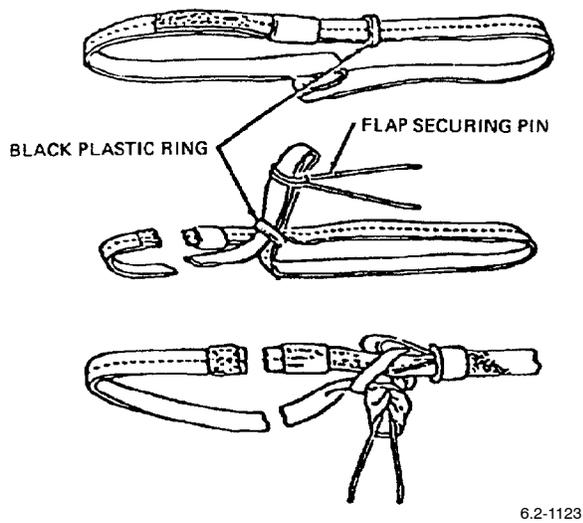


Figure 13. Inspection of Flap Securing Pin

(4) Ensure that all apex suspension lines and anti-squid line are encircled by withdrawal line with a lark's head knot and tacking is properly attached and secure (Figure 14). (QA)

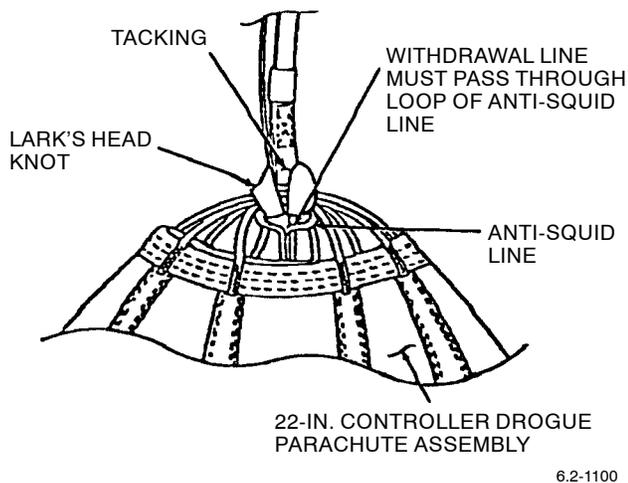


Figure 14. Ensuring Apex Suspension Lines and Anti-Squid Line are Encircled

(5) Withdrawal line for contamination, cuts, fraying, burns, loose or broken stitching, and proper attachment of drogue parachute.

(6) Fabric drag surface, seams, and suspension lines at canopy apex for signs of contamination, mildew, cuts, tears, burns, fraying, and loose or broken stitches.

(7) Anti-squid line for contamination, cuts, fraying, burns, loose or broken stitching and security of attachment at canopy apex and terminal eye. (QA)

(8) Suspension lines:

(a) Lines from canopy lower lateral band to terminal eye for frays, ruptures, and contamination.

(b) Protruding inner core lines, presence of twists in individual lines and security of attachment of lower lateral band.

(c) Security and condition of wrapping at terminal eye.

(9) Drogue connecting line for contamination, cuts, fraying, burns, loose or broken stitching, and attachment of connecting line to 22-in. drogue terminal eye. (QA)

b. Stabilizer drogue:

(1) Ensure that all apex suspension lines on 5 ft. drogue parachute are encircled by lark's head knot formed by connecting line. (QA)

(2) Check tacking at apex (Figure 3).

(3) Fabric surface, seams, and suspension lines for signs of contamination, mildew, cuts, tears, burns, fraying, and loose or broken stitches.

(4) Anti-squid for proper attachment at canopy apex (Figure 15). (QA)

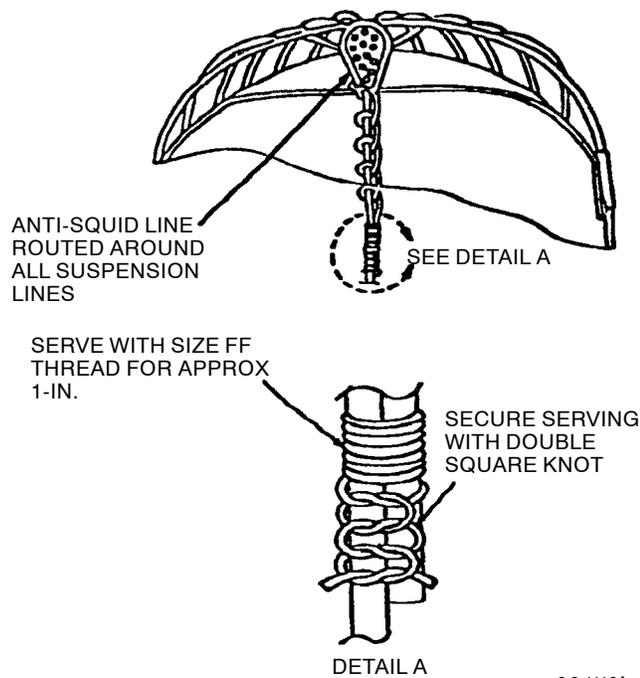


Figure 15. Anti-Squid Line Attachment

(5) Suspension lines and anti-squid line from canopy lower lateral band to confluence point for frays, ruptures, contamination, protruding inner core lines, presence of twists, attachment of suspension lines and V-tabs at lower lateral band and security and condition of warping at confluence point.

(6) Braided tubular cover for frays, ruptures, contamination, security of wrappings, and serving at the eye.

(7) Extender strap for contamination, cuts, tears, burns, fraying, and loose or missing stitches.

(8) Drogue shackle for nicks, burrs, and corrosion.

(9) Attachment bolt for nicks, burrs, corrosion, and stripped threads.

(10) Link line webbing for fraying, cuts, tears, and contamination; neoprene sleeve for cuts; pins for nicks, burrs, and corrosion.

c. Suspension line continuity check:

(1) Walk anti-squid line from tunnel of confluence point to lower lateral band of stabilizer drogue. (QA)

(2) Hold anti-squid line at lower lateral band, form two groups of twelve lines each. (QA)

(3) Ensure anti-squid line is retained in control position with twelve lines on each side. (QA)

(4) Ensure suspension lines are not crossed or entangled at confluence point (Figure 16). (QA)

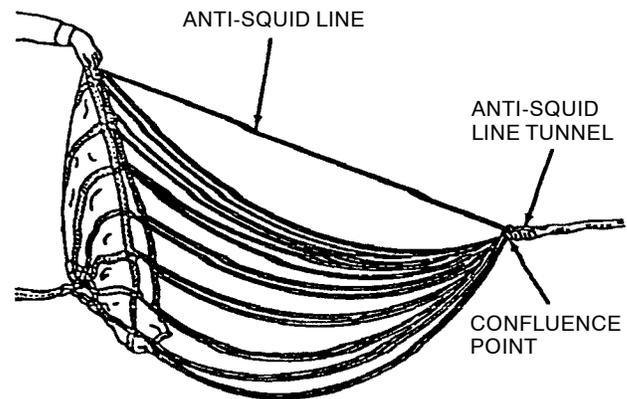


Figure 16. Suspension Line Continuity Check

(5) Stretch controller drogue taut and from 2 groups of 5 lines each; position each group to either side of anti-squid line. Make certain that anti-squid line is retained in central position with 5 lines on each side (Figure 17). (QA)

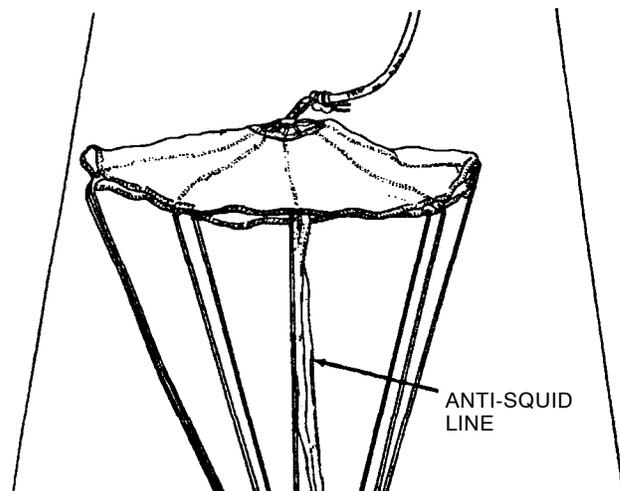
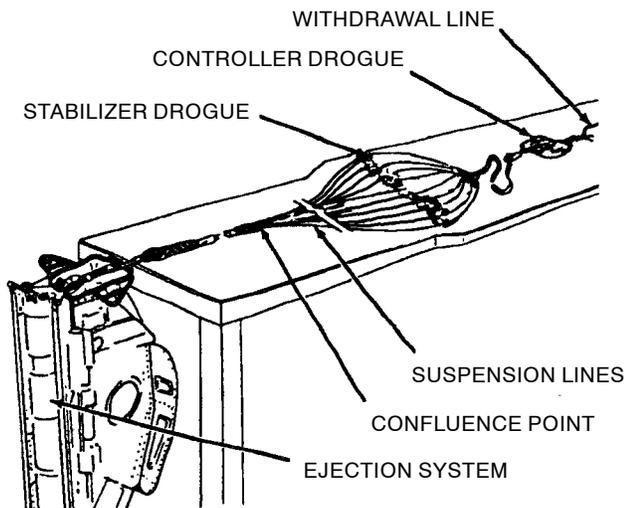


Figure 17. Separation of Suspension Lines into Two Groups of Five

12. PACKING (ORGANIZATIONAL MAINTENANCE).

13. LAYOUT OF DROGUE PARACHUTE ASSEMBLY.

a. Connect drogue shackle to scissor mechanism. Lay out drogue parachute assembly on table (Figure 18).



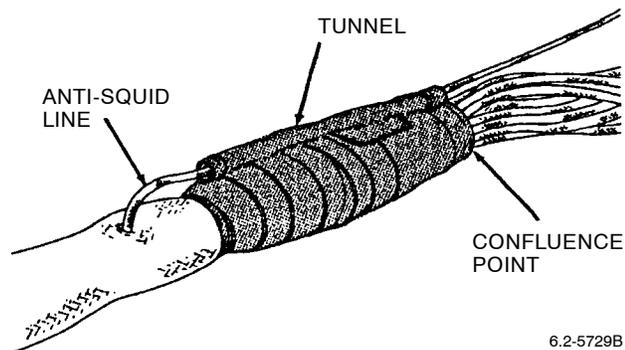
6.2-5729A

Figure 18. Layout of Rigged Assembly

b. Open and spread the four flaps of drogue parachute container, pull up inner protective sleeve, and roll it inside out so that it does not obstruct the packing operation (Figure 18).

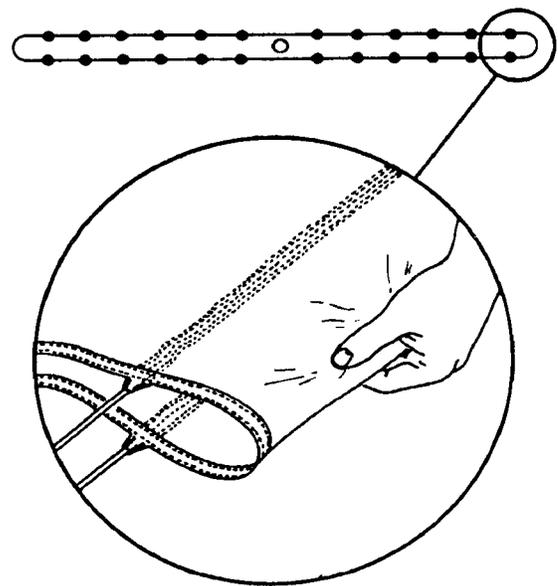
c. Spread stabilizer drogue out drawing suspension lines taut.

d. Position anti-squid line tunnel upward (Figure 19).



6.2-5729B

Figure 19. Positioning of Anti-Squid Line Tunnel

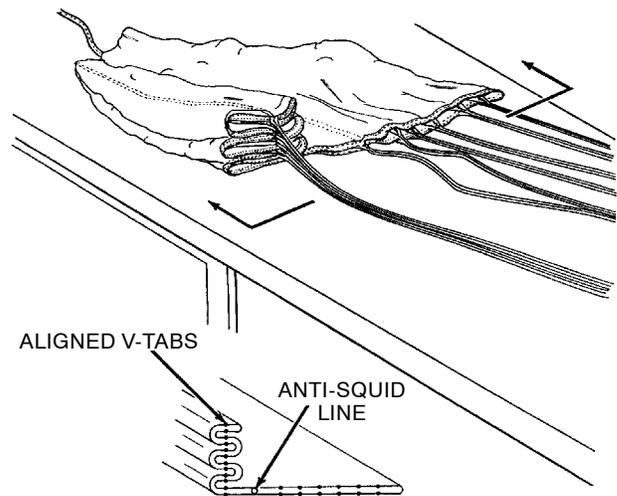


PAIRED SUSPENSION LINES

6.2-5234A

Figure 20. Pair Off Suspension Lines

b. S-fold packer's side of canopy maintaining alignment of V-tabs (Figure 21).



6.2-5234B

Figure 21. S-Fold Packer's Side of Canopy

14. FOLDING STABILIZER DROGUE.

a. Pair off suspension lines and align V-tabs. There shall be six pairs on each side of anti-squid line (Figure 20).

c. Repeat same operation for helper's side. Ensure that anti-squid line is positioned between the two groups of folds and suspension lines. Check that anti-squid lines are properly routed between the two groups of suspension lines (Figure 22). (QA)

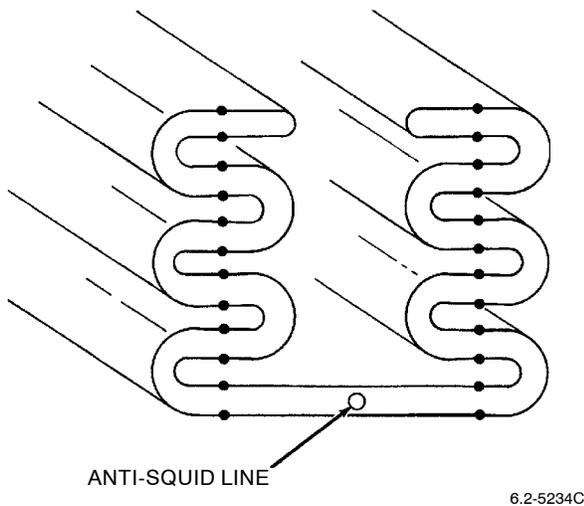


Figure 22. S-Fold Helper's Side of Canopy

d. Grasp two sets of folds at skirt hem and rotate group of folds on helper's side under group of folds on the packer's side (Figure 23).

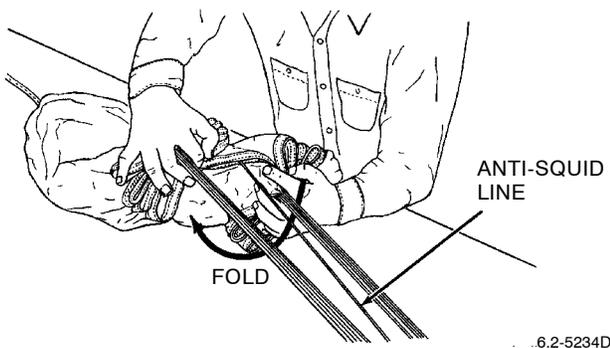


Figure 23. Grasping Two Sets of Folds

e. Straighten folds and fold canopy together; align V-tabs and ensure that anti-squid line is free to confluence point (Figure 24).

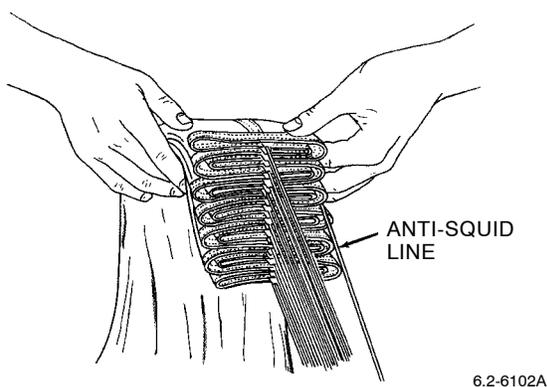


Figure 24. Straighten Folds

f. Place shot bags on folded stabilizer drogue canopy (Figure 25).

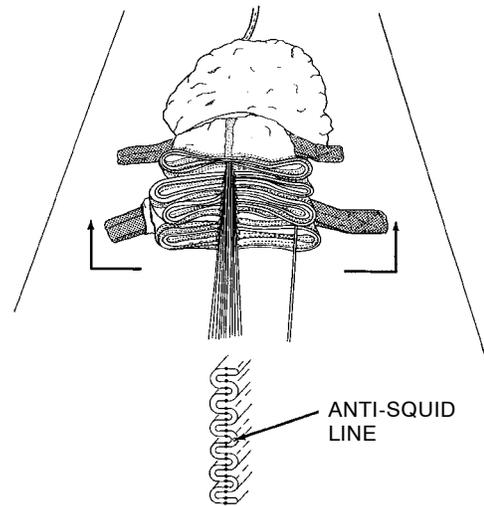


Figure 25. Placement of Shot Bags

15. STOWING STABILIZER DROGUE AND SUSPENSION LINES.

NOTE

Direction of flight will determine front, rear, right, and left reference points.

a. Route drogue extender strap down along inside left rear corner of container. Pack sleeve-protected suspension lines in bottom of container from left to right along rear (Figure 26).

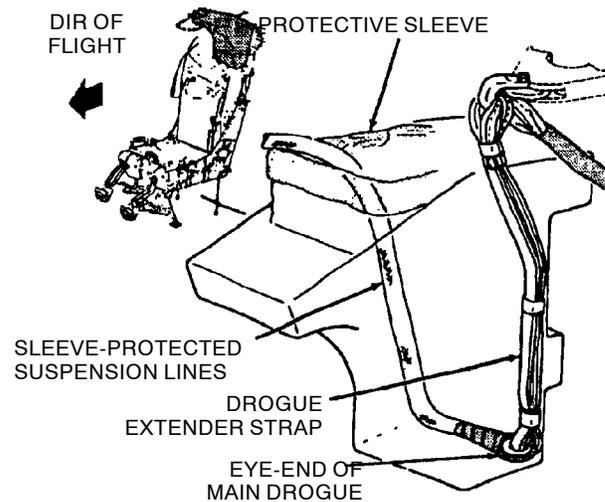
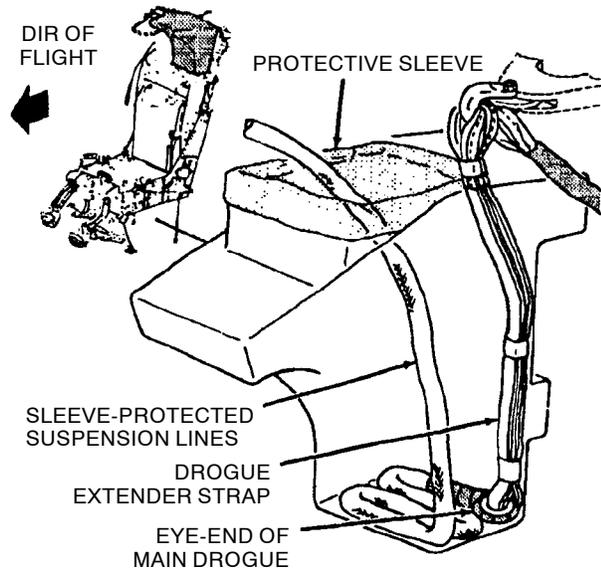


Figure 26. Routing of Drogue Extender Strap

NOTE

Pack line well into all corners, do not waste any space.

b. Route drogue sleeve-protected suspension lines in four tightly packed rows in bottom of container running from left to right while working toward container front (Figure 27).



6.2-5730B

Figure 27. Route Drogue Sleeve-Protected Suspension Lines

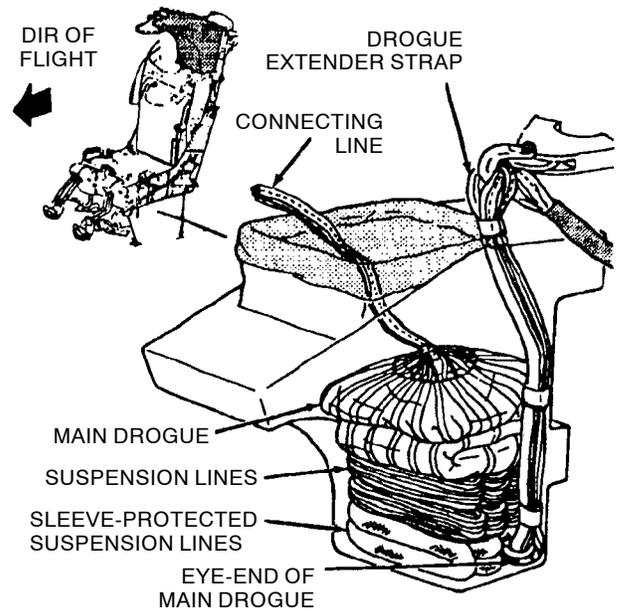
c. Continue routing drogue sleeve-protected suspension lines tightly on top of first layer in same manner, working toward rear of container. Pack wrapped confluence point with tunnel between sleeve-protected suspension lines and suspension lines. (QA)

NOTE

Pack suspension lines on top of drogue sleeve protected suspension lines as tightly as possible. Do not waste any space.

d. Pack stabilizer drogue suspension lines on top of packed drogue sleeve-protected suspension lines, routing them from left to right of container. Ensure that drogue suspension lines are properly routed and free of entanglements. (QA)

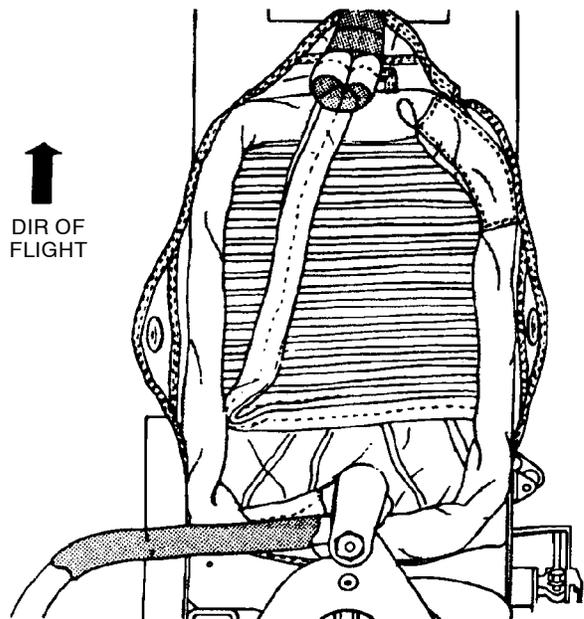
e. Remove shot bags from folded stabilizer drogue. Grasp folded stabilizer drogue canopy at lower edge. Insert canopy into container on top of packed suspension lines, butting canopy skirt hem against rear of container. Continue stowing canopy into container using accordion folds from front to rear, packing each fold as tightly as possible and finally opening out apex of drogue to lie flat on top (Figure 28).



6.2-5730C

Figure 28. Removal of Shot Bags

f. Pack connecting line directly on top of packed canopy by standing connecting line on its edge. Route connecting line along front of container, tightly running it from side to side, working toward rear of container. Pack entire connecting line in this manner until a length of 12 to 14-in. remains (Figure 29). (QA)

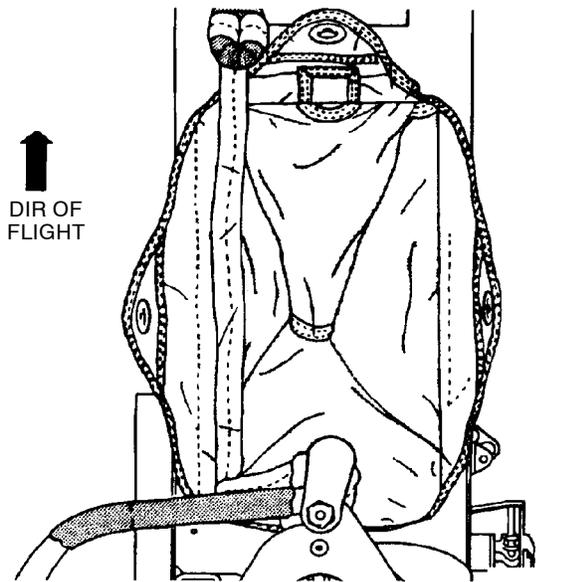


6.2-6103A

Figure 29. Pack Connecting Line

g. Place remaining length of connecting line over left rear corner of container.

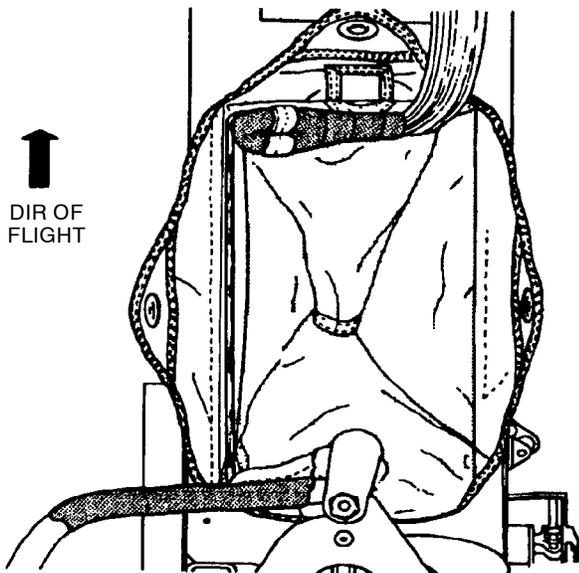
h. Pull up protective sleeve. Fold rear, left, front, and right sides of sleeve down in that order. Ensure that drogue parachute assembly is firmly packed. Adjustment of internal mass by external hand pressure is permissible (Figure 30).



6.2-6103B

Figure 30. Pull Up Protective Sleeve

i. Route remaining length of stabilizer drogue connecting line forward on top of folded sleeve. Position terminal eye of controller drogue across front of container from left to right (Figure 31). (QA)

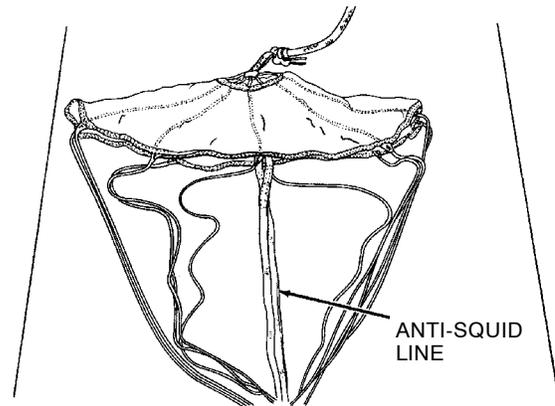


6.2-6103C

Figure 31. Routing of Remaining Length

16. FOLDING AND STOWING OF CONTROLLER DROGUE.

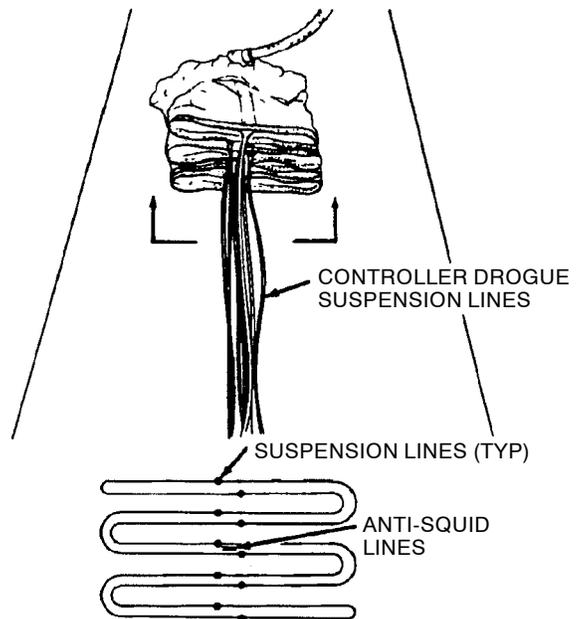
a. Stretch controller drogue parachute assembly taut and ensure that anti-squid line is not entangled with suspension lines. Pair off suspension lines and straighten canopy (Figure 32).



6.2-6104A

Figure 32. Stretch Controller Drogue

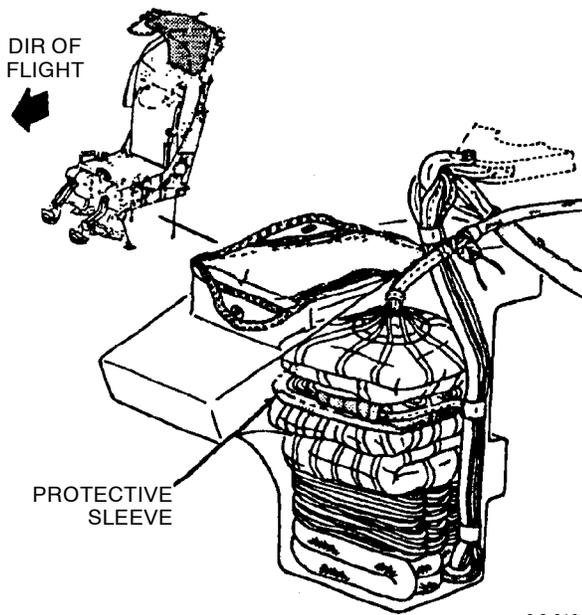
b. Fold drogue into four folds. Adjust to stagger suspension lines and reduce bulk in center (Figure 33). (QA)



6.2-6104B

Figure 33. Fold Drogue into Four Folds

c. Stow controller drogue suspension lines on top of folded sleeve, from front to rear of container. Pack drogue by stowing skirt hem into rear of container. Lay to front, fold back, and open out apex so that it lies flat (Figure 34). (QA)



6.2-6104C

Figure 34. Stow Controller Drogue Suspension Lines

WARNING

Drogue withdrawal line must be forward of extender strap, and both must emerge from left rear corner between left and rear securing flaps.

d. Pull container flaps up; withdrawal line and extender strap shall remain between rear and left flaps.

17. CLOSING CONTAINER.

NOTE

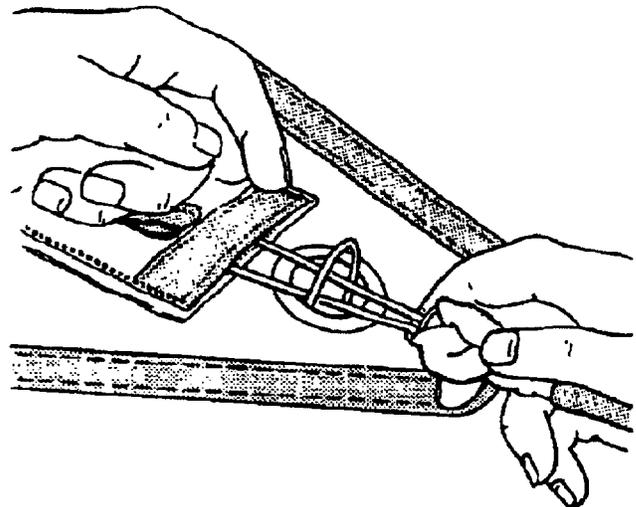
Tie off all tackings with a surgeon's knot topped with a square knot, followed with a binder knot per WP 002 00. Trim off excess leaving 1/2-in.

a. Close right, left, rear, and front securing flaps, passing wire loop on right flap thru eyelets of other flaps. (QA)

WARNING

Controller drogue withdrawal line must be routed over all other lines so that drogues may be withdrawn without any danger of entanglement.

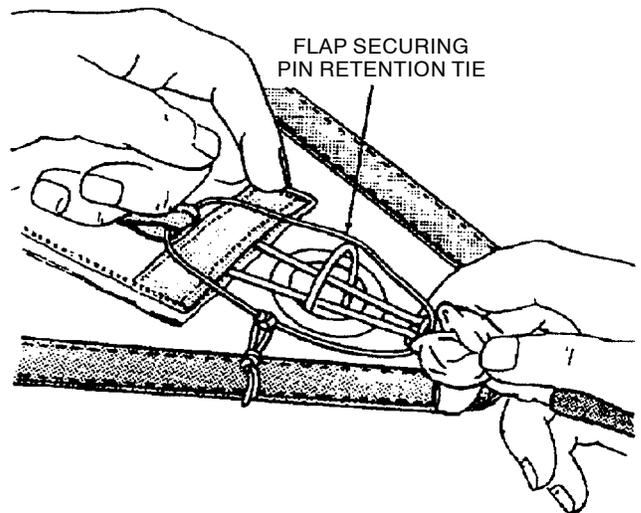
b. Insert securing pin attached to drogue withdrawal line thru wire loop and into fabric pocket on front flap (Figure 35).



6.2-6105A

Figure 35. Insert Securing Pin

c. Pass length of size 6 thread, single and waxed, thru flap securing pin and then thru fabric loop on pocket. Tie off. Trim excess (Figure 36). (QA)



6.2-5660

Figure 36. Securing of Flap Securing Pin

d. Rotate scissor shackle forward so that drogue shackle and extender strap loops lie on top of flaps.

e. Retention-tie drogue shackle with one turn size 6 thread, single and waxed, routed thru loop of extender strap, thru shackle, and around both legs of securing pin forward of wire loop; tie off (Figure 37). (QA)

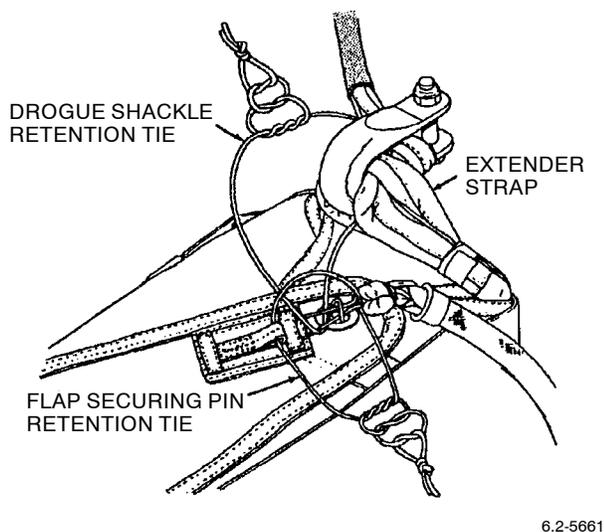


Figure 37. Retention-Tie Drogue Shackle

NOTE

Ensure that the drogue shackle is positioned in scissor shackle with drogue shackle nut facing aft and up. Barostatic time release should be cocked.

f. Ensure first layer of link line is routed thru protective retainer flap assembly.

18. FINAL CHECKOUT.

a. Account for all packing tools.

b. Examine packed drogue 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.

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ORGANIZATIONAL AND DEPOT MAINTENANCE

ILLUSTRATED PARTS BREAKDOWN

MK-H7 DROGUE PARACHUTE SYSTEM

PART NO. MBEU38272

List of Effective Work Package Pages

<u>Page No.</u>	<u>Chg. No.</u>						
1 thru 3	10					

Reference Material

Organizational and Depot Maintenance, Packing Procedures, MK-H7 Drogue Parachute System WP 015 01

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Record of Applicable Technical Directives

None

1. INTRODUCTION.

a. This Work Package (WP) contains information for ordering and identifying parts for the MK-H7 Drogue Parachute System (Figure 1).

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

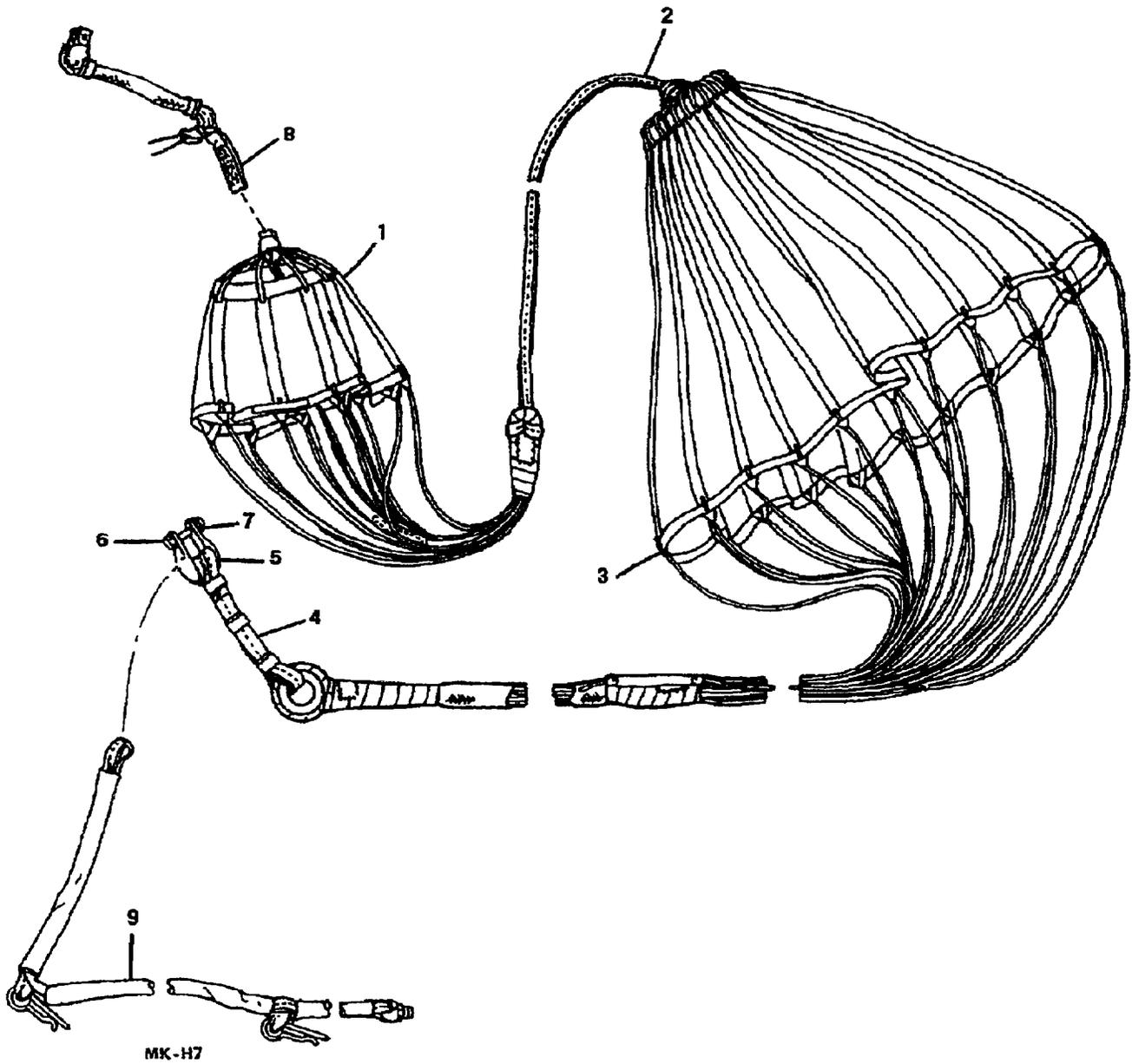
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2. USABLE ON CODES.

a. The usable on codes in this WP refer to the aircraft applications for the MK-H7 Drogue Parachute System.

3. SERVICE/TOTAL LIFE.

a. The service/total life information is contained in WP 015 01.



6.2-5753

Figure 1. MK-H7 Drogue Parachute System (Sheet 1 of 2)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
	MBEU38272	.	.	.	.	.	.	.	REF	A	AGOOO
1	MBEU34505	.	.	.	.	.	.	.	1		PCOOO
2	MBEU34010	.	.	.	.	.	.	.	1		PCOZZ
3	MBEU38271	.	.	.	.	.	.	.	1		PCOOO
4	MBEU38119	.	.	.	.	.	.	.	1		PCOZZ
5	MBEU5940	.	.	.	.	.	.	.	1		PAOZZ
											/ATTACHING PARTS/
6	MBEU12064	.	.	.	.	.	.	.	1		PAOZZ
7	A126G	.	.	.	.	.	.	.	1		PAOZZ
											---*---
8	MBEU23177	1		PCOZZ
9	MBEU35674	1		PCOZZ

Figure 1. MK-H7 Drogue Parachute System (Sheet 2 of 2)

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