

CHAPTER 8

RIGID SEAT SURVIVAL KIT-3

Section 8-1. Description

8-1. GENERAL.

8-2. The Rigid Seat Survival Kit-3 (RSSK-3) is designed for use with North American LS-1 ejection seats and functions as a seat for the aircrewman as well as a container for an emergency oxygen system, liferaft and survival equipment (figures 8-1 and 8-2). The kit is manufactured by North American Rockwell Corp. (P/N 249-53050-31).

8-3. CONFIGURATION.

8-4. The RSSK-3 is constructed of a bonded fiberglass body with an extruded metal lip interconnecting the upper and lower containers. The kit is opened by a handle mounted on the right side. A strap adapter on each side of the container and a slide fastener on the back of the container provide attachment of the kit to the aircrewman's parachute assembly. The upper container assembly houses a 22 cu in., 1800 psi, emergency oxygen cylinder capable of supplying just over 10 minutes of breathing oxygen for high altitude bailout. Or, in the event of a failure of the aircraft oxygen system, emergency oxygen is available by pulling the manual oxygen release on the kit. Oxygen then flows to the aircrewman through the emergency oxygen system reducer/manifold in the kit. The reducer/manifold is automatically actuated by separation of a cable attached to the cockpit deck during ejection. The lower container houses the liferaft and survival equipment.

8-5. The composite disconnect is a two-piece unit mounted on the left side of the ejection seat. The disconnect functions to join the oxygen hose, g-suit hose and electrical connections from the aircraft to the aircrewman. The two halves of the disconnect are

secured together by a retaining pin. A lanyard, attached between the retaining pin and the cockpit deck, functions to separate the two halves during upward movement of the seat (figure 8-3).

8-6. When seated aboard the aircraft, the aircrewman connects the kit and oxygen outlet (kit-to-mask) hose to his torso suit. The personal service leads are connected via the composite block on aircraft seat. The leads can be quickly disconnected by pulling the leads at the disconnect point.

8-7. SUBASSEMBLIES. The major subassemblies of the RSSK-3 are:

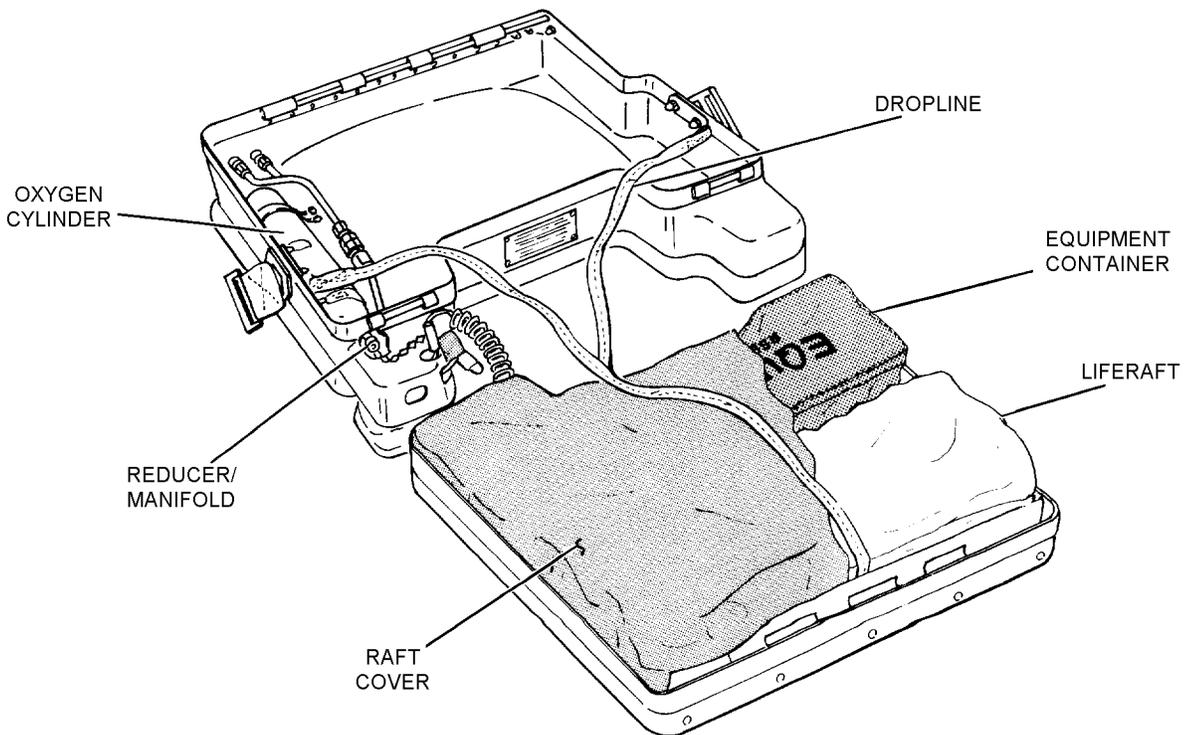
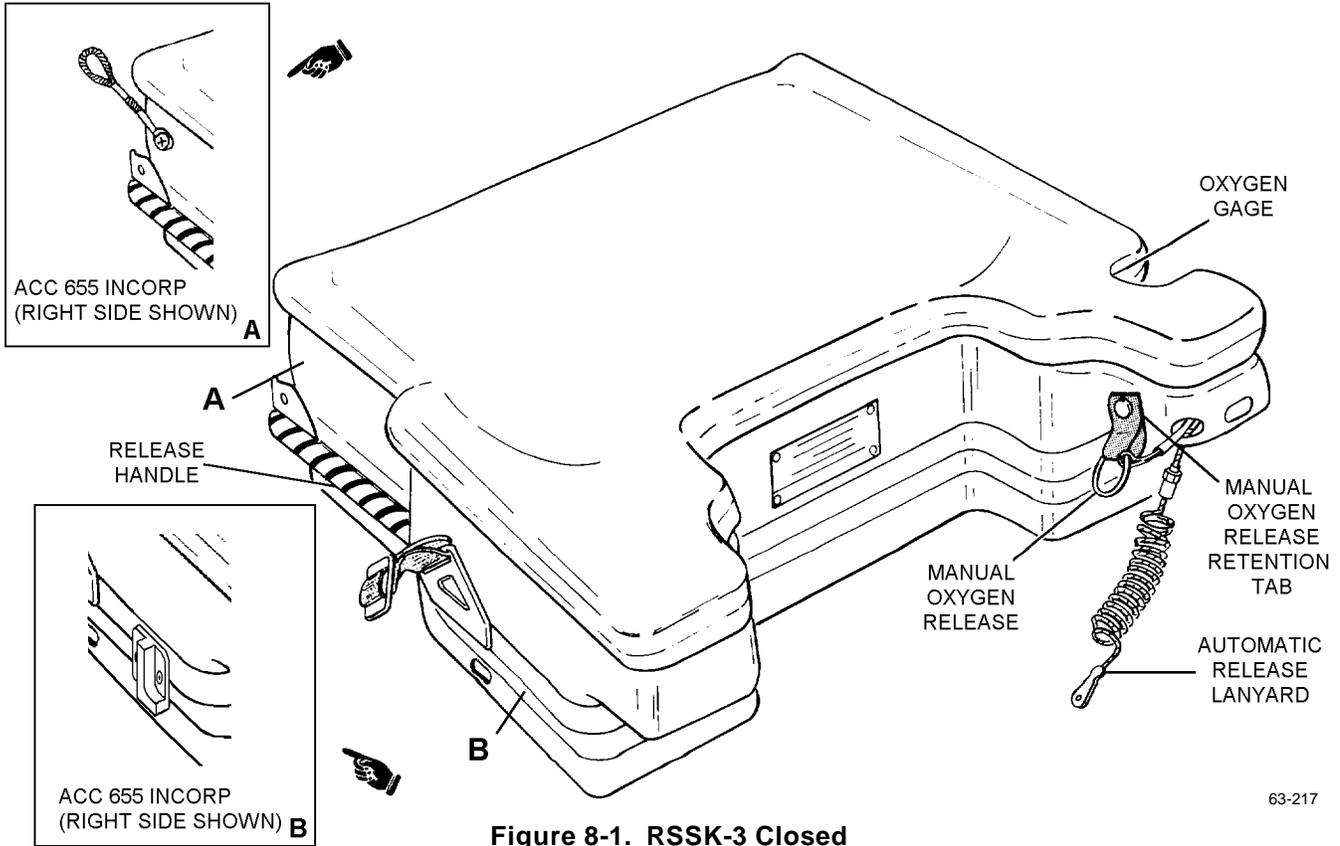
1. Emergency Oxygen System
2. Upper and Lower Containers
3. Release Mechanism
4. Dropline

8-8. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

8-9. Figures 8-16 through 8-20 contain information on each assembly, subassembly and component part of the RSSK-3. The figure and index number, reference or part number, description and units per assembly are provided.

8-10. APPLICATION.

8-11. The RSSK-3 is part of the survival equipment used by aircrewman aboard T-2 series aircraft.



8-12. FUNCTION.

NOTE

8-13. When the aircrewman ejects from the aircraft, the following functions occur:

1. The composite disconnect (figure 8-3) is separated by a lanyard attached to the cockpit deck. The top half remains with the seat; the lower half remains in the cockpit. When the two halves separate, a check valve in the oxygen port of the top half closes and prevents emergency oxygen from flowing overboard.

2. The automatic actuation lanyard for the emergency oxygen system actuates the reducer assembly at seat ejection. The aircrewman is then supplied emergency oxygen for descent (figure 8-4).

If automatic actuation of emergency oxygen fails, emergency oxygen may be obtained by pulling the manual oxygen release.

3. The radio beacon is also actuated by an automatic actuation lanyard upon seat ejection. The beacon provides a continuous signal during descent.

4. When the aircrewman reaches a safe altitude, and wishes to deploy survival kit, he pulls the kit release handle free of the kit. This unlocks the containers and the lower half falls away but remains attached to the upper container by the dropline assembly. The liferaft, attached to the dropline, is automatically inflated as snubbing action of dropline actuates liferaft inflation assembly.

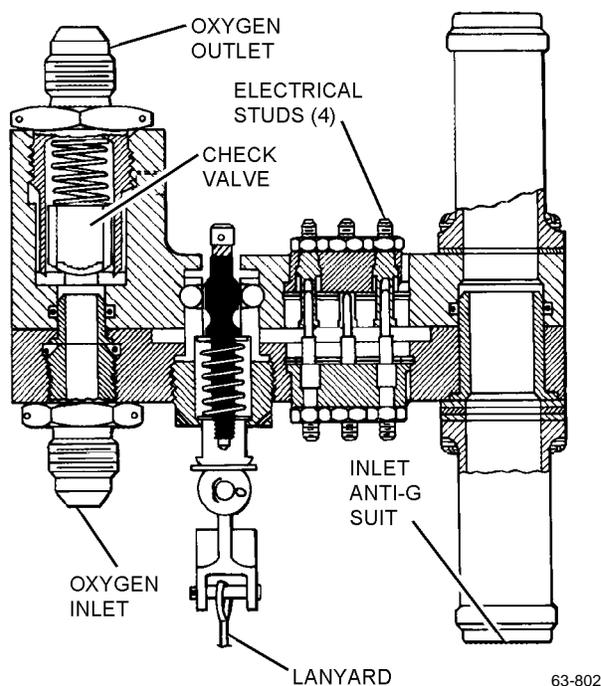


Figure 8-3. Composite Disconnect

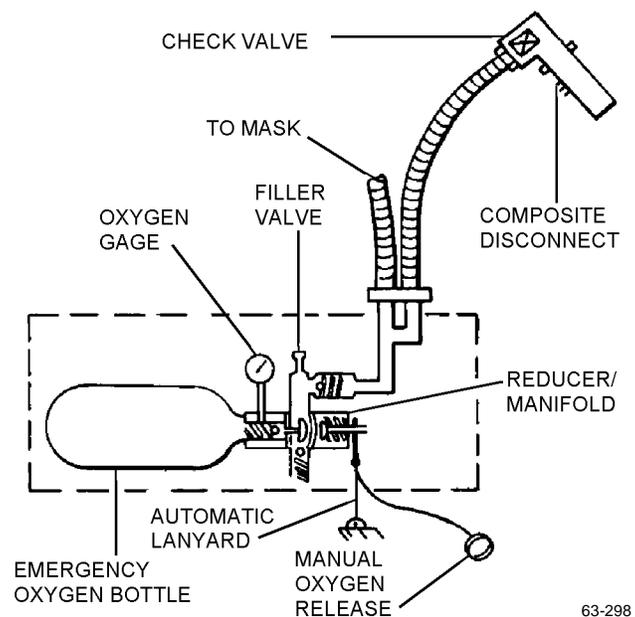


Figure 8-4. Oxygen Schematic

Section 8-2. Modifications

8-14. GENERAL.

8-15. The RSSK-3 shall be updated by comparing the configuration of the assembly with the directives listed in [table 8-1](#).

Table 8-1. RSSK-3 Directives

| Description of Modification | Application | Modification Code |
|---|--------------------------|----------------------------|
| Installation of AN/URT-33 Emergency Radio Beacon and Replacement Instructions for Dropline. | All RSSK-3 Survival Kits | 66-161, Part VII, Amend. 1 |
| Installation of Negative g Retention Brackets and Cable Assemblies | All RSSK-3 Survival Kits | 66-655 |

Section 8-3. Rigging and Packing

8-16. GENERAL.

8-17. Unless operational requirements demand otherwise, rigging and packing of the RSSK-3 shall be accomplished at the Intermediate Level of maintenance by qualified personnel every 448 days.

NOTE

Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

8-18. RIGGING AND PACKING PROCEDURES.

8-19. Rigging and Packing of the RSSK-3 is accomplished in eight separate operations as follows:

1. Preliminary Procedures
2. Radio Beacon Rigging and Installation

3. Survival Equipment Binding
4. Survival Equipment Packing
5. Stowing Dropline
6. Liferaft Preparation, Folding, Rigging and Packing
7. Closing Container
8. Cockpit Routing and Installation of the Emergency Radio Beacon Lanyard

8-20. PRELIMINARY PROCEDURES. The following preliminary procedures shall be accomplished prior to rigging and packing the RSSK-3.

1. Ensure RSSK-3 and components have been inspected in accordance with [Section 8-5](#).
2. Inspect oxygen hose assemblies in accordance with [Chapter 4](#).

3. Remove upper container assembly from lower container assembly.

4. Remove liferaft cover. Inspect liferaft cover for damaged fabric and loose, broken, or frayed stitching.



CO₂ bottle is under pressure. Use caution when disconnecting CO₂ bottle from liferaft. Do not loosen or attempt to remove inflation valve assembly from CO₂ cylinder.



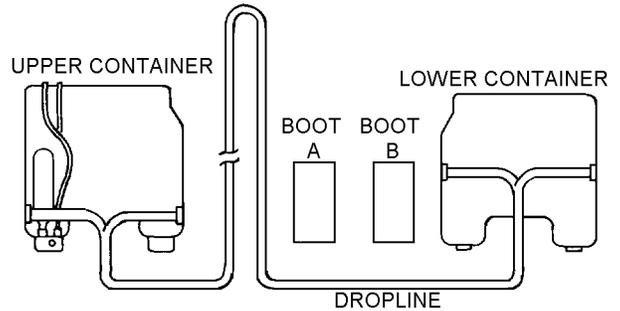
Ensure actuating line is disconnected from CO₂ cylinder inflation valve before removal of CO₂ cylinder from liferaft.

5. Disconnect CO₂ cylinder from liferaft as follows:

- a. Carefully remove liferaft from container.
- b. Disconnect actuation line from CO₂ cylinder.
- c. Disconnect CO₂ cylinder from liferaft.
- d. Remove large loop of drop line from CO₂ cylinders neck.
- e. Ensure anti-chafing disc is installed. Reconnect CO₂ cylinder to liferaft finger tight. If functional test is required torque valve 80 to 90 in-lbs.

6. Ensure liferaft and CO₂ cylinder have been inspected in accordance with NAVAIR 13-1-6.1-1.

7. Remove dropline from boots and align kit components on a clean flat surface as shown.



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Step 7 - Para 8-20

NOTE

A newly fabricated or procured dropline assembly will have a final dimension of 26 feet, 4 inches \pm 2 inches. However, a dropline assembly is subjected to a certain amount of stretch during its stowing process, and shrinkage during its cleaning process, therefore a tolerance of \pm 12 inches is acceptable for an older dropline assembly.

8. Inspect dropline to ensure proper attachment to upper and lower containers. Also ensure dropline length is 26 feet, 4 inches \pm 12 inches.

9. Ensure survival items have been inspected in accordance with NAVAIR 13-1-6.5.

NOTE

Ensure battery service life does not expire prior to the next scheduled inspection cycle of the assembly in which the radio set is installed. Refer to NAVAIR 16-30URT33-1 for battery service life.

10. Remove radio beacon set from kit and ensure that the battery and radio beacon have been inspected in accordance with NAVAIR 16-30URT33-1.

11. Check seat pan and cushion assembly for cuts, tears, and abrasions, and hardware for security of attachment, corrosion, damage, wear, and ease of operation.

NAVAIR 13-1-6.3-1

8-21. RADIO BEACON RIGGING AND INSTALLATION. To rig and install the AN/URT-33 Emergency Radio Beacon, proceed as follows:

Materials Required

| Quantity | Description | Reference Number |
|----------|------------------------------|--|
| 1 | Beacon Set, Radio AN/URT-33A | MIL-B-38401A |
| 1 | Actuator Indicator Assembly | P/N CL204D3-11 (CAGE 80206) NIIN 00-127-5597 |
| 1 | Pin, Cotter, Hairpin | LHCOTC (CAGE 96652) NIIN 00-956-5635 |

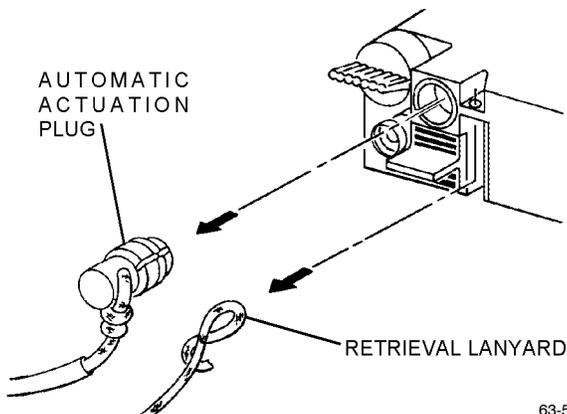
NOTE

Ensure that slide switch on radio beacon is OFF. Slider switch is in OFF position when word ON is not visible on radio beacon housing.

Determine if beacon has been modified in accordance with steps 1 through 3 before proceeding to step 4.

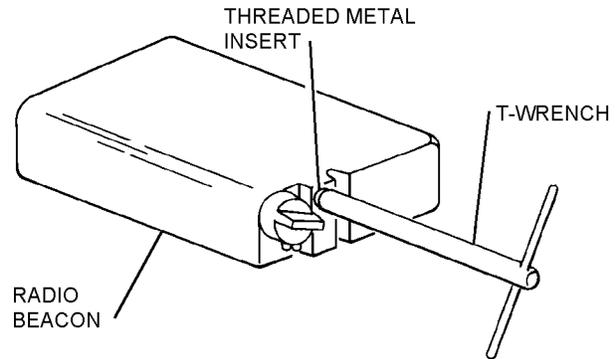
Retain automatic actuation plug, lanyard, and metal insert in shop area for possible future use.

1. Remove and retain automatic actuation plug and lanyard. Remove and discard retrieval lanyard.



Step 1 - Para 8-21

2. Remove threaded metal insert from beacon using locally manufactured T-wrench. (See paragraph 8-68 for fabrication of T-wrench).



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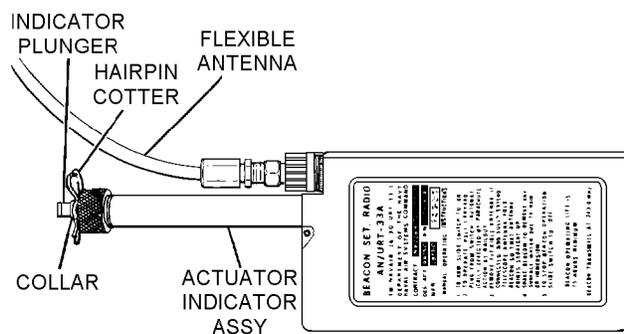
Step 2 - Para 8-21

3. Connect flexible antenna to radio beacon. Push bayonet type fitting in and turn to the right.

4. Install actuator indicator assembly handtight into hole in beacon from which threaded metal insert was removed.

5. Depress plunger, align holes in plunger and collar and insert temporary hairpin cotter. (See paragraph 8-70 for fabrication of temporary hairpin cotter.)

6. Ensure hairpin cotter and collar are free to rotate 360° without binding. If hairpin cotter and collar are free, proceed to step 7. If hairpin cotter and collar do not rotate, refer to NAVAIR 16-30URT33-1.



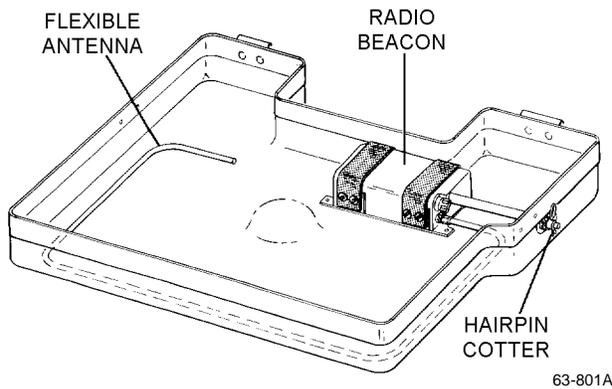
63-984A

Step 6 - Para 8-21

NOTE

To prevent accidental transmission of inaudible emergency distress signal, ensure indicator plunger is secure in depressed position before beacon ON/OFF slider switch is placed in ON (armed) position.

7. Place ON/OFF slider switch in ON (armed) position and install beacon in bracket in lower container. Position beacon so end of indicator plunger, collar, and hairpin cotter extend through opening in side of lower container. Ensure slider switch is secure in the ON position under the finger bar of bracket assembly, then secure beacon with hook and pile tape fasteners.



Step 7 - Para 8-21

8. Route flexible antenna around periphery of lower container.

8-22. SURVIVAL EQUIPMENT BINDING. Ensure all survival items have been inspected in accordance with NAVAIR 13-1-6.5 Technical Manual before binding. To bind survival items, proceed as follows (table 8-2).

NOTE

To prevent loss of survival items, tie to 140-inch length of nylon cord. Nylon cord of prescribed lengths required for this procedure shall be seared at both ends to prevent fraying (table 8-3).

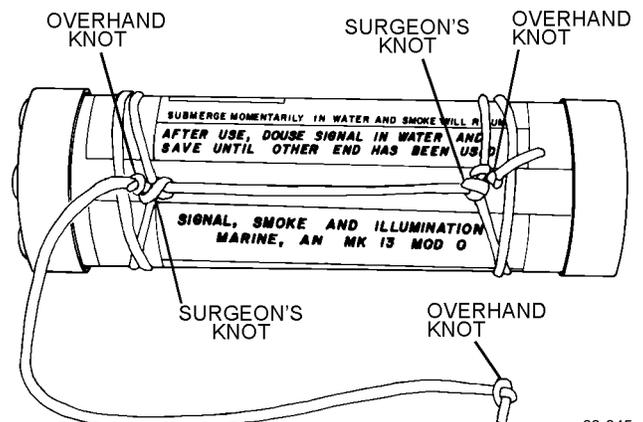
All cord used shall be nylon (MIL-C-5040, Type I).

1. Using 36-inch piece of nylon cord, tie overhand knot in each end. Wrap end of cord two overlapping turns around end of signal flare (MK-13 MOD 0 or MK-124 MOD 0) and tie with surgeon's knot positioned snugly against cord-end overhand knot.

NOTE

The cord between end-ties shall be drawn tight.

2. Route cord to opposite end of signal flare. Wrap cord two overlapping turns around flare and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot.



Step 2 - Para 8-22

Table 8-2. Survival Kit Items (Note 1)

| Item Name | Quantity | Reference Number |
|---|----------|-------------------|
| Cord, (Nylon), Fibrous, Type I | 50 ft | NAVAIR 13-1-6.5 |
| Signal, (Flare), Smoke and Illumination, MK-13 MOD 0 or MK-124 MOD 0 (Note 2) | 2 | NAVAIR 13-1-6.5 |
| Sea (Dye) Marker, Fluorescein | 2 | NAVAIR 13-1-6.5 |
| Sponge, (Bailing), Cellulose Type II, Class 2 | 1 | NAVAIR 13-1-6.5 |
| SRU-31/P Survival Kit, Packet #1 (Medical) (Note 3) | 1 | NAVAIR 13-1-6.5 |
| SRU-31/P Survival Kit, Packet #2 (General) (Note 3) | 1 | NAVAIR 13-1-6.5 |
| SRU-31A/P (Note 5) | Optional | NAVAIR 13-1-6.5 |
| Water, Drinking, Canned | 1 | NAVAIR 13-1-6.5 |
| Water, Drinking, Emergency (Note 4) | 3 | NAVAIR 13-1-6.5 |
| Opener, Can, Hand | 1 | NAVAIR 13-1-6.5 |
| Ground/Air Emergency Code Card | 1 | NAVAIR 13-1-6.5 |
| Envelope, Packing List | 2 | NAVAIR 13-1-6.5 |
| Beacon Set, Radio | 1 | NAVAIR 13-1-6.5 |
| Liferaft, Inflatable | 1 | NAVAIR 13-1-6.1-1 |

- Notes:
1. The items listed are typical and are considered mandatory for inclusion in the survival kit container. Deviation from the listed items may be required by certain Functional Air Wings (FUNCWINGS), Carrier Air Wings (CVW), COMFAIRS, or Marine Air Wings (MAW). Requests for deviations must be forwarded to and authorized by TYCOMS and with information to Fleet Support Team (FST) at NAVAIR-WARCENACDIV Patuxent River MD via Naval Message. When optional items are substituted, particular attention must be paid to the binding sequence so that physical sizes and binding order of substituted items remain approximately the same. That portion of an item name in parentheses is a common-use name or container size and is not intended for supply requisition purposes.
 2. MK-13 MOD 0 shall be used until stocks are depleted. MK-124 MOD 0 will replace MK-13 MOD 0 as stocks become available.
 3. SRU-31/P complete kits including Medical Packet (#1) and General Packet (#2) may be ordered; instructions for packing and ordering these kits are found in NAVAIR 13-1-6.5.
 4. When the supply for emergency canned water has been exhausted, order emergency bagged water in accordance with NAVAIR 13-1-6.5.
 5. The selection of SRU-31/P or SRU-31A/P Individual Aircrewmember's Survival Kit will be at the discretion of the TYPE COMMANDER depending on mission requirements, reference NAVAIR 13-1-6.5, Chapter 9, for detailed information.

Table 8-3. Nylon Cord Lengths Required for Binding

| Length (Inches) | No. Required |
|-----------------|--------------|
| 140 | 1 |
| 12 (Note 1) | 4 |
| 30 | 1 |
| 36 | 2 |
| 40 | 2 |
| 50 (Note 1) | 1 |

Notes: 1. When using bagged water in place of canned emergency water, the number of required 12 inch lengths will be a total of 5 and the required 50 inch lengths will be a total of 0.

3. Tie second signal flare in same manner as in steps 1 and 2.

4. Using 12-inch piece of nylon cord, tie overhand knot near each end. Pass overhand knot through center grommet in dye marker and tie bowline knot, allowing approximately a 1-inch loop. Bowline knot shall lie snugly against overhand knot.



63-695

Step 4 - Para 8-22

5. Tie second sea dye marker in same manner as step 4.

6. Using 50-inch piece of nylon cord, tie overhand knot near both ends. Wrap one end of cord two overlapping turns around end of canned water and tie with surgeon's knot positioned snugly against cord-end overhand knot. Route cord to opposite end of can. Wrap cord two overlapping turns around end of can and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot. Cord between end-ties shall be drawn tight.



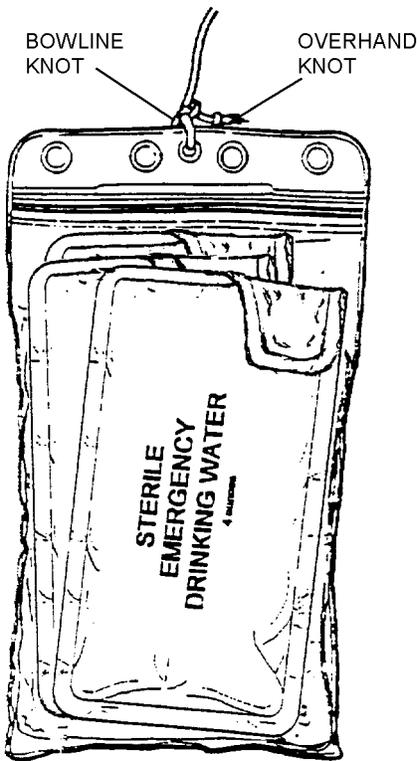
63-697

Step 6 - Para 8-22

NOTE

Replacement rate of exhausted canned water shall be in accordance with the NAV-AIR 13-1-6.5 manual. Bagged emergency drinking water shall be stowed in the same order as canned emergency water. The bags of water shall be stowed in a flat configuration.

7. Bagged water. Place a maximum of three 4-ounce bagged emergency drinking water flat inside a clear vinyl envelope (MIL-B-117) with pour spout folded down. Bagged water must be able to fit into envelope without disrupting the closure of the sealing slide fastener. Using a 12-inch length of cord, tie an overhand knot on each end and pass knot through center hole in envelope. Secure with bowline knot, allowing an approximate 1-inch loop. Position an overhand knot snugly against the bowline knot. Ensure overhand knot is snug against surgeon's knot.



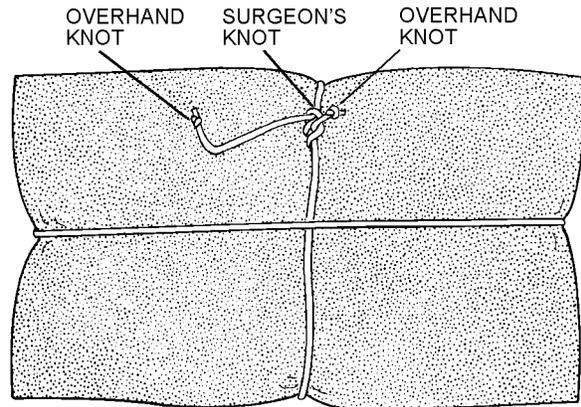
Step 7 - Para 8-22

63-22

NOTE

The bailing sponge should be compressed to a minimum thickness by compressing while damp and then allowing to dry in the compressed state before tying.

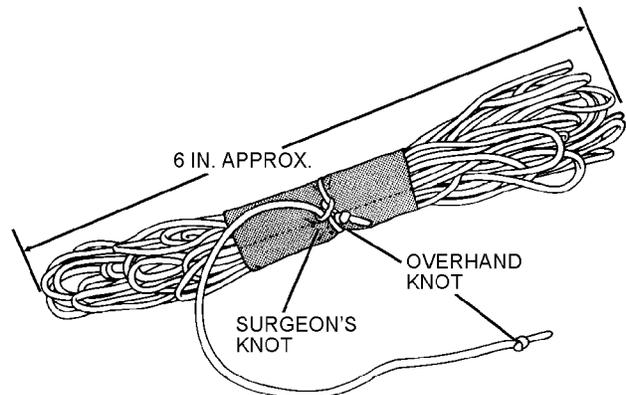
8. Using a 30-inch length of nylon cord, tie an overhand knot near the ends. Wrap cord around sponge until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite side of sponge. Tie with a surgeon's knot. Ensure that cord-end overhand knot rests snugly against surgeon's knot.



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Step 8 - Para 8-22

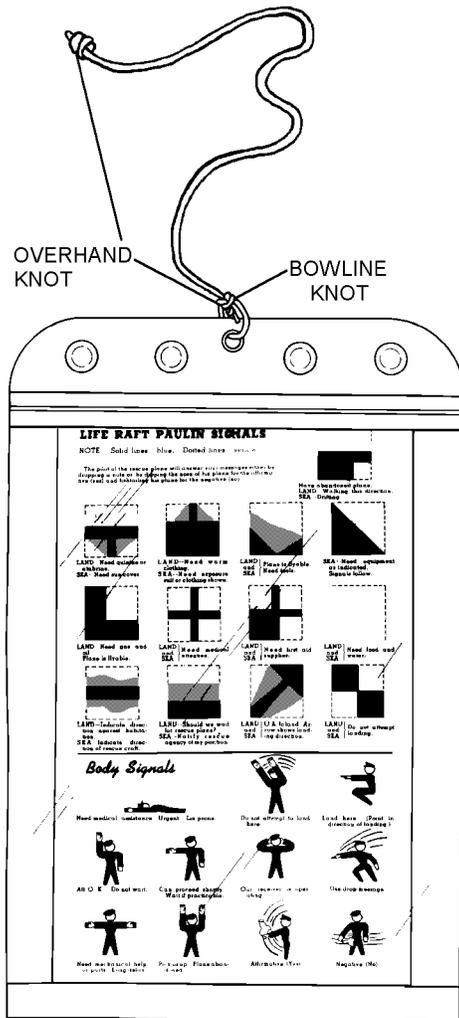
9. Cut one 2 x 3-inch piece of nylon duck material. Accordion fold the 50-foot length of nylon cord in 6-inch bights, and wrap material around center of accordion fold cord. Using a 12-inch piece of nylon cord, tie an overhand knot near each end and secure one end of the cord to center of material with a surgeon's knot. Ensure that cord-end overhand knot rests snugly against surgeon's knot.



63-699

Step 9 - Para 8-22

10. Place Ground/Air Emergency Code Card into clear vinyl plastic envelope (MIL-B-117) and close the sealing zipper. Using a 12-inch piece of nylon cord, tie an overhand knot in one end and pass knot through center hole in envelope. Secure with a bowline knot, allowing a 1-inch loop. Cord-end overhand knot shall rest snugly against bowline knot.



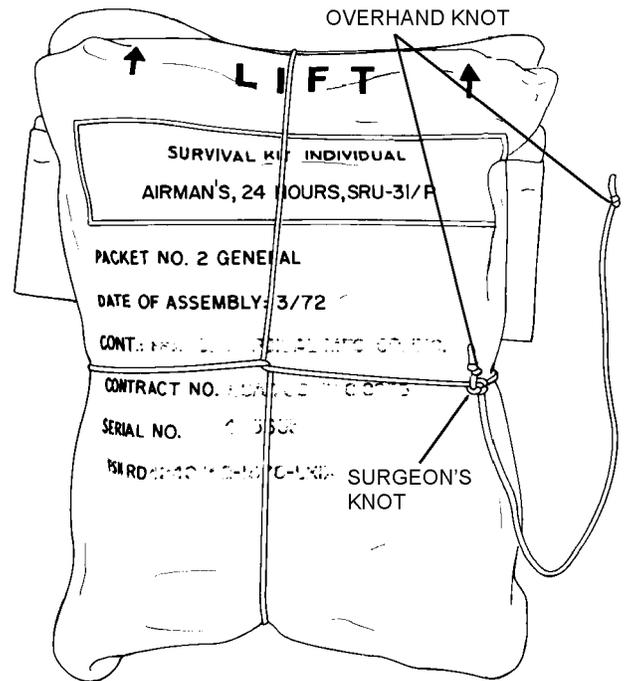
63-700

Step 10 - Para 8-22

NOTE

Fold SRU-31/P Survival Kit #1 (Medical) approximately in half prior to tying.

11. Using a 40-inch length of nylon cord, tie an overhand knot in both ends. Wrap cord around one packet of SRU-31/P Survival Kit until cord ends meet, then rotate cords 1/4-turn and wrap cords around opposite sides of packet. Tie with a surgeon's knot positioned snugly against cord-end overhand knot.



63-701

Step 11 - Para 8-22

12. Secure the second SRU-31/P packet in the same manner as [step 11](#).

13. Check to ensure proper binding of survival items.

14. Using the 140-inch piece of Type I nylon cord, form an overhand loop approximately 12 inches from one end. Continue making these loops every 5 inches until a total of 10 loops are completed.

15. Tie each item to a loop with a surgeon's knot. Keep knots snugly together.

CAUTION

Ensure pointed end of can opener has adequate chafing cloth to prevent damage to the other survival items.

16. Route 12-inch end of the 140-inch cord through the hole in the can opener and secure with a 1-inch loop bowline knot, followed by an overhand knot drawn snugly against bowline knot. Wrap can opener with chafing cloth secured by a rubber band (figure 8-5).

8-23. SURVIVAL EQUIPMENT PACKING. To pack survival equipment, proceed as follows:

Materials Required

| Quantity | Description | Reference Number |
|-------------|--|--------------------------------|
| As Required | Cord, Nylon Type III, 550-Pound | MIL-C-5040 NIIN 00-240-2146 |
| As Required | Thread, Nylon, Type II, Class A Size E | V-T-295 NIIN 00-244-0609 |

NOTE

There are two authorized equipment containers which can be used in the RSSK-3 Survival Kit. Because of differences in packing of survival equipment and securing of container to dropline, it is mandatory to first establish which equipment container is being used. After equipment container configuration is established, proceed to step 1 or step 2, whichever is applicable.

1. Pack and secure survival equipment container, P/N 68A77D4-1, as follows:

a. Place equipment container on table with attaching loops facing packer and the word EQUIPMENT facing up.

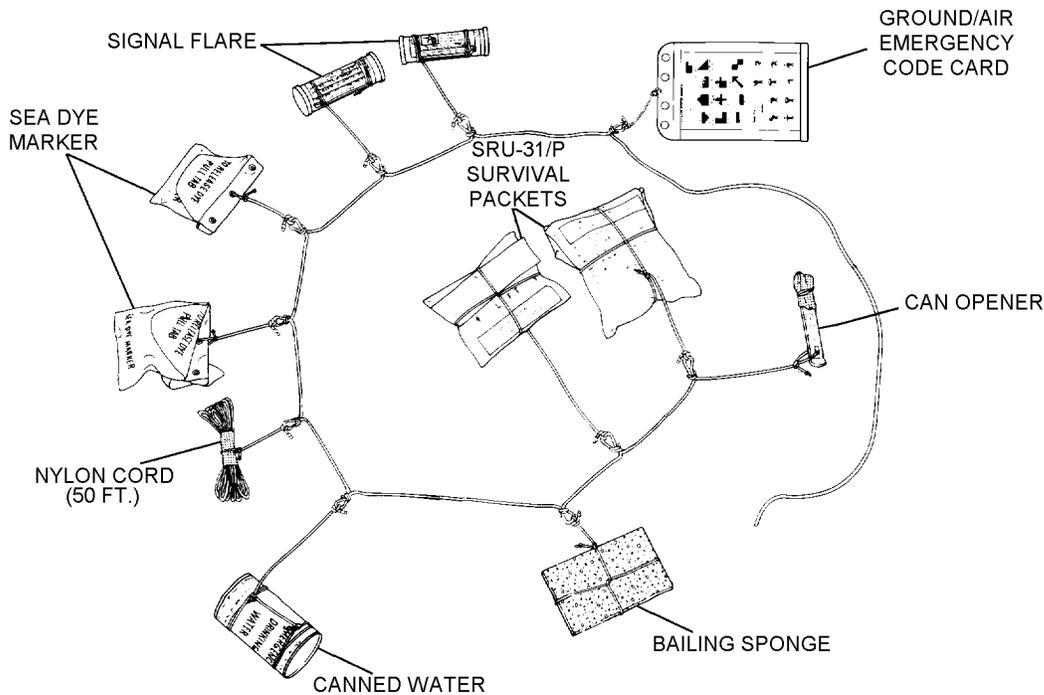
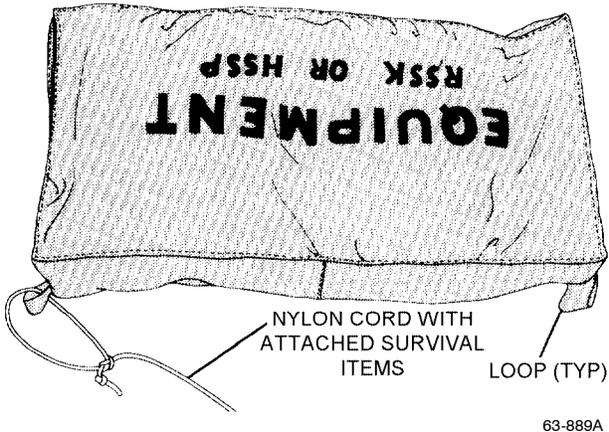


Figure 8-5. Binding Survival Items

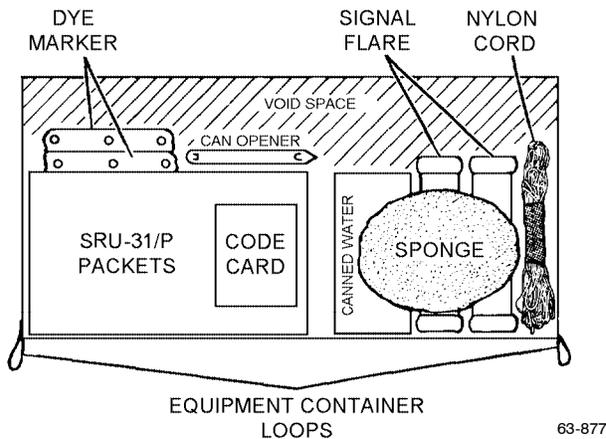
b. Attach bitter end of 140-inch nylon cord (with attached survival items) to the left loop on equipment container using a bowline knot (approximately 2-inch loop) with cord-end overhand knot positioned snugly against bowline knot.



Step 1b - Para 8-23

c. Open equipment container by opening left slide fastener to the right.

d. Stow survival items into equipment container in a neat and orderly fashion so as to obtain the flattest possible pack. Ensure a void space is left in forward area of container as shown.



Step 1d - Para 8-23

e. Close equipment container.

NOTE

All tacking cord shall be coated with a mixture of 50% beeswax and 50% paraffin. The cord may be dipped in a melting pot 160° to 200°F or drawn across a solid block of the mixture.

f. Cut a 52 ±1-inch piece of nylon cord, Type III, MIL-C-5040, and sear ends. Secure cord to equipment container and dropline as shown in figure 8-6.

g. Place equipment container in forward section of lower container half, on top of radio beacon with slide fastener facing forward. Ensure equipment container is located as far forward as possible (figure 8-6).

2. Pack and secure survival equipment container, P/N 249-530110, as follows:

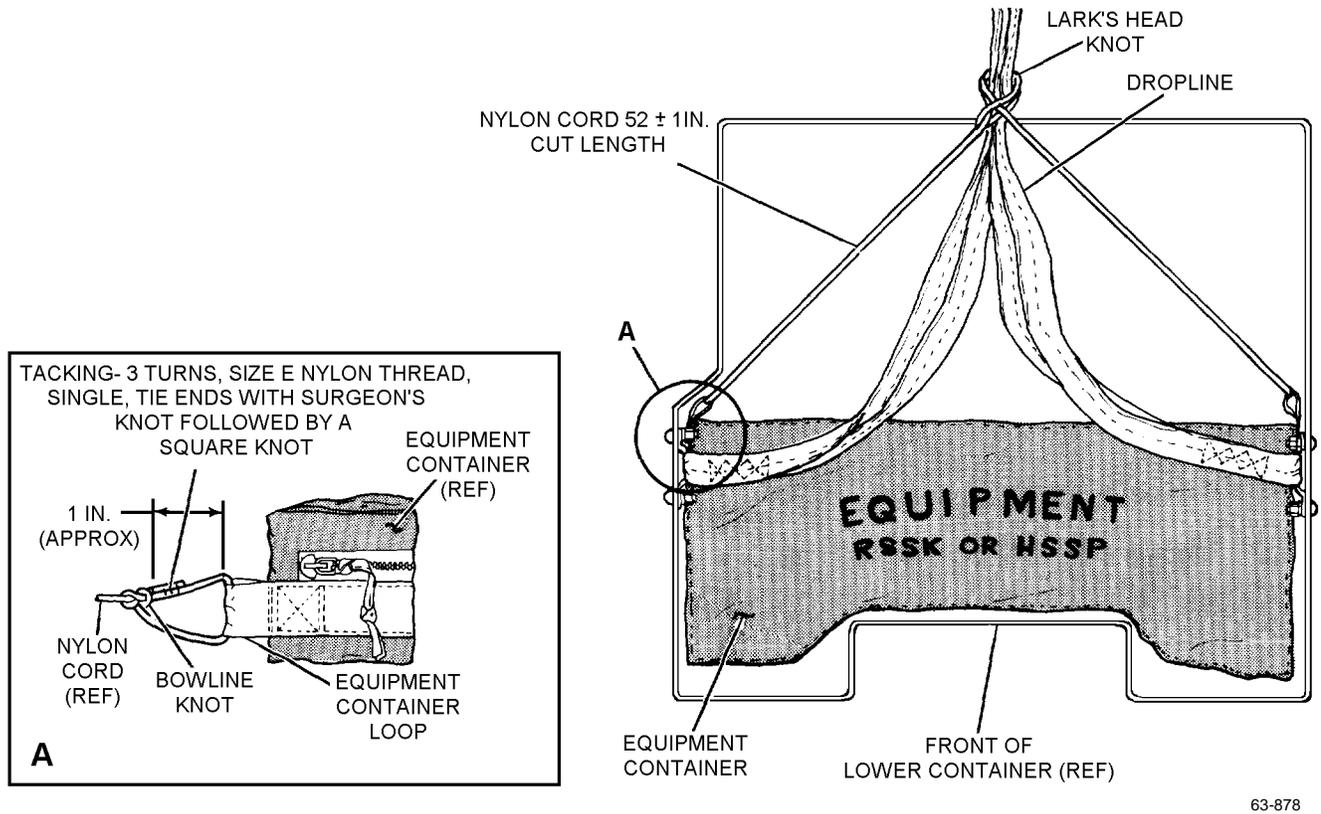
a. Place equipment container on table with slide fastener facing up and carrying strap away from packer.

b. Attach bitter end of 140-inch nylon cord (with attached survival items) to carrying strap using a bowline knot with cord-end overhand knot positioned snugly against bowline knot.

c. Open equipment container by moving left slide fastener to right.

d. Stow survival items into equipment container in neat and orderly fashion to obtain flattest possible pack.

e. Close equipment container.



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Figure 8-6. (Equipment Container P/N 68A77D4-1) Stowed Survival Equipment

NOTE

Ensure equipment container is inverted. When packed into lower container, slide fastener must be facing down. This will prevent possible chafing of liferaft by slide and snap fasteners.

f. Invert equipment container and place on top of the thigh supports of lower container.

g. Cut two 22-inch lengths of 550-pound nylon cord, and sear ends.

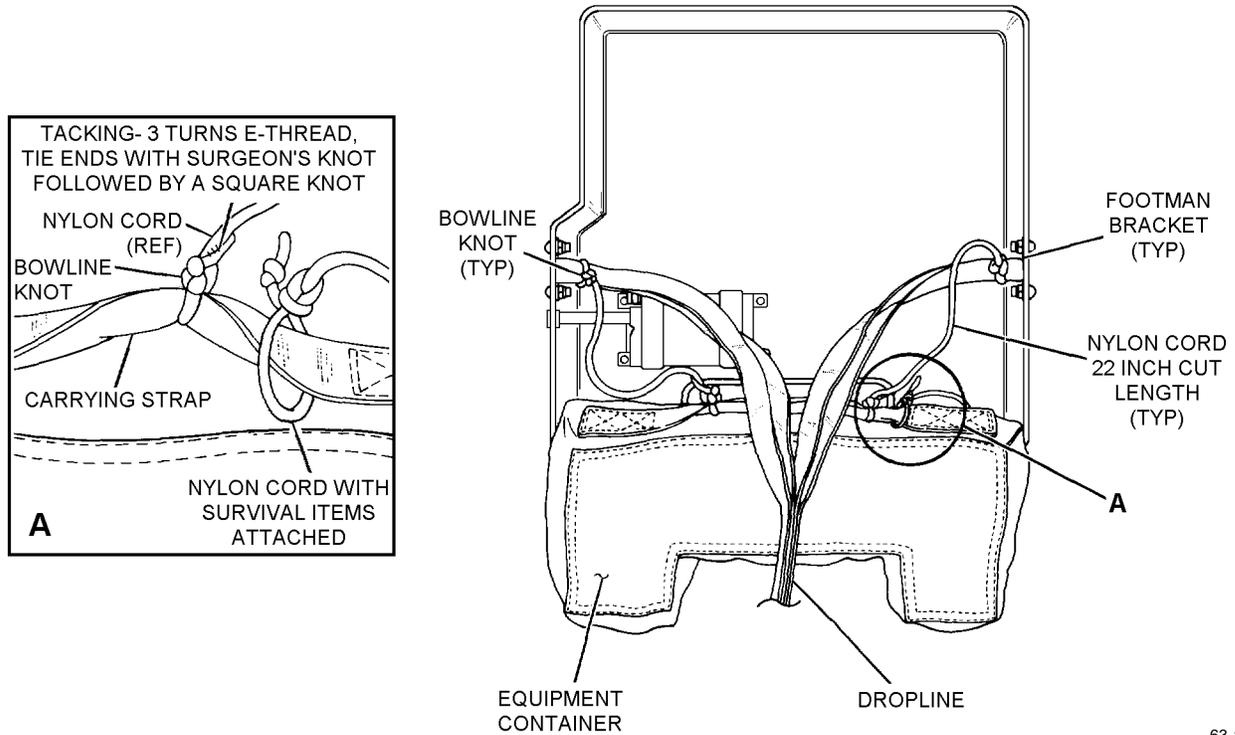
h. Attach one end of each cord to the carrying strap with a bowline knot. Tack the short end from each bowline knot with three turns of waxed, size E

nylon thread; tie ends with surgeon's knot followed by a square knot (figure 8-7).

i. Separately route the free end of the two 22-inch cords through the loops at each end of the dropline where the dropline is attached to the lower container by footman brackets.

j. Attach each 22-inch cord to the loop with a bowline knot, and secure each knot by tacking the short end with three turns of waxed, size E nylon thread. Tie ends with surgeon's knot followed by a square knot (figure 8-7).

k. Place equipment container in forward section of lower container half, on top of radio beacon. Ensure equipment container is located as far forward as possible with slide fastener facing down.



63-1038

Figure 8-7. Attachment of Equipment Container to Dropline

8-24. STOWING DROPLINE. To stow dropline in boots, proceed as follows:

appear in illustrations for clarity; they do not actually appear on stowage boots.

NOTE

Stowage boots are referred to as boot A and boot B for identification purposes only. There are no physical differences between boots and the letters A and B do not actually appear on them.

The identification yarn on earlier fabricated dropline assemblies may be located on the underside of the webbing. However, procedural steps depicting identification yarn location will be reversed throughout the dropline stowage procedures for these assemblies. Future fabrication of the dropline for the RSSK-3 will be in accordance with [paragraph 8-66](#).

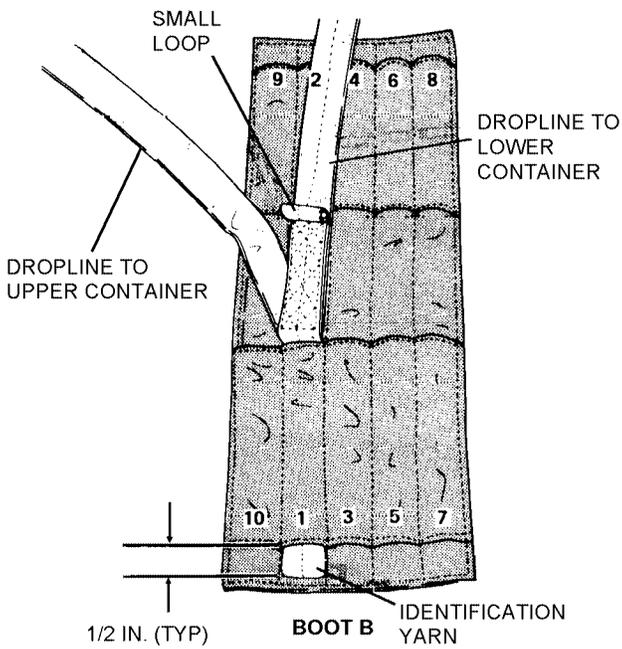
Numbers on stowage channels of boots correspond to dropline bights and the order in which they are to be stowed. Numbers

1. Lay dropline out flat between container halves with dropline loops facing up. Remove all twists from dropline prior to beginning stowage operation.

NAVAIR 13-1-6.3-1

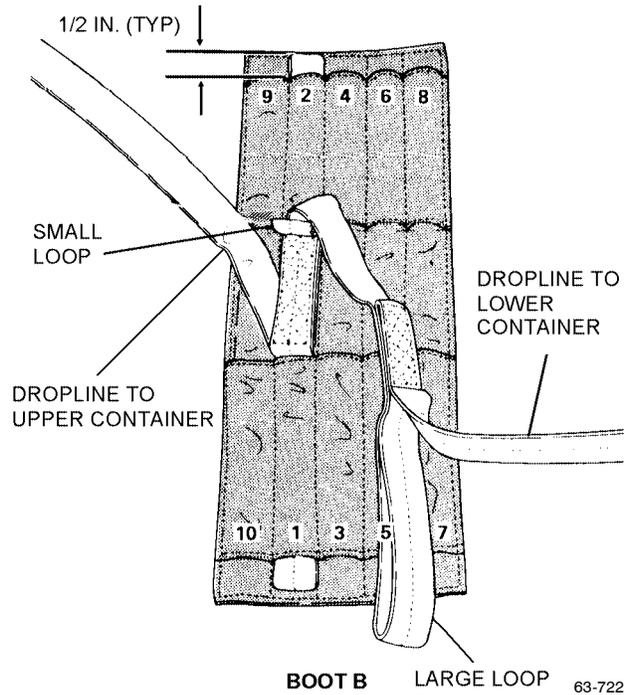
2. Position boot B to the left of lower container. Form the first bight 5 ± 1/2 inch from base of small loop stitching. Bight shall be in position of dropline going to upper container and small loop shall face up. Stow bight in channel 1 of boot B. Push bight in channel with a 7-inch length of 3/8-inch hardwood dowel tapered at one end. There shall be a 1/2-inch protrusion at end of channel, and identification yarn shall be visible at protrusion.

3. Second bight shall be found in portion of dropline going from small loop to large loop and shall be stowed in channel 2. Identification yarn shall not show at protrusion.



63-721

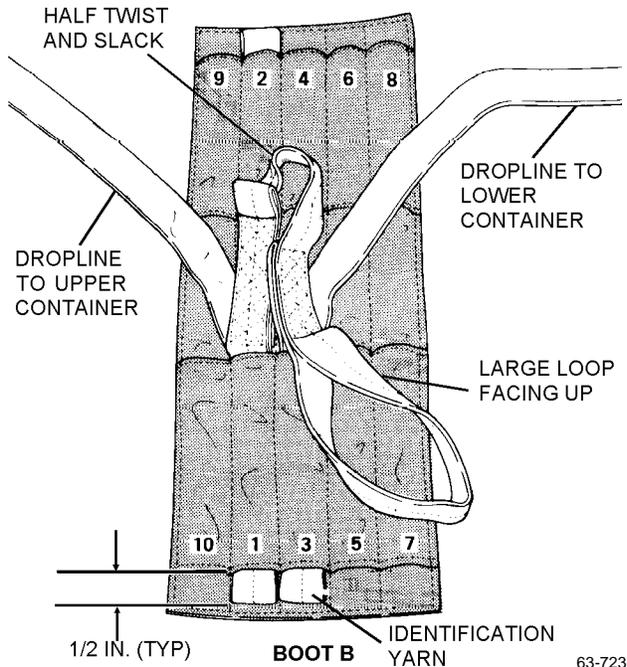
Step 2 - Para 8-24



63-722

Step 3 - Para 8-24

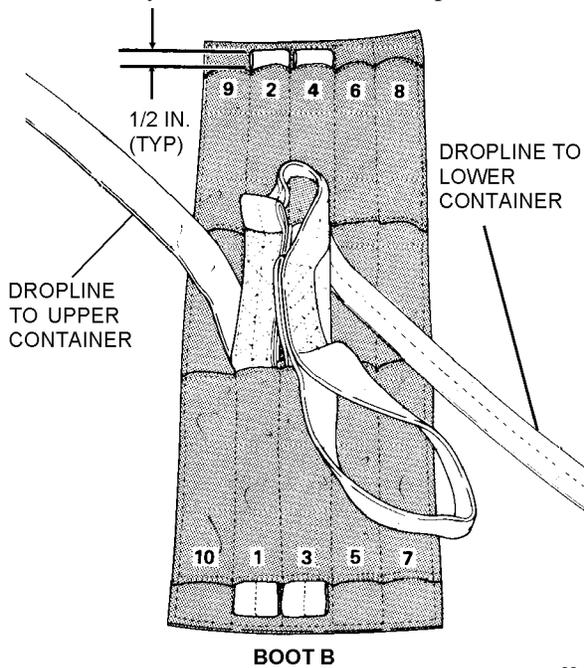
4. Place a half-twist in dropline by rotating clockwise so that large loop faces up. Stow third bight in channel 3. A small amount of slack may exist between bights 2 and 3. Identification yarn shall be visible at protrusion.



Step 4 - Para 8-24

63-723

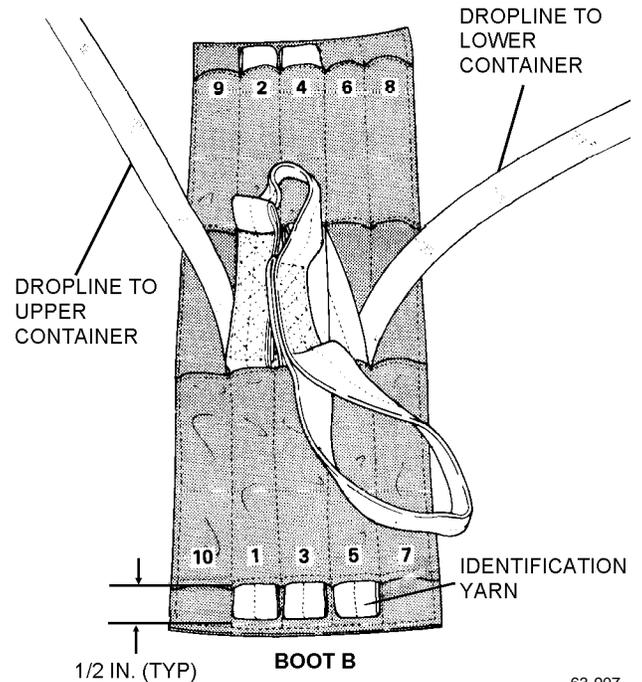
5. Stow fourth bight in channel 4, ensuring that identification yarn does not show at protrusion.



Step 5 - Para 8-24

63-906

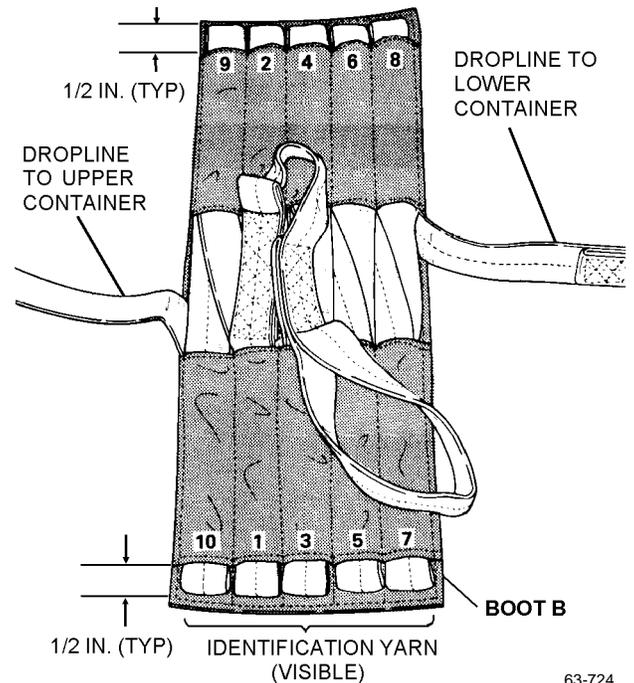
6. Stow fifth bight in channel 5, ensuring that identification yarn is visible at protrusion.



Step 6 - Para 8-24

63-907

7. Stow remainder of dropline in boot B in accordance with numbering sequence on boot as shown, maintaining 1/2-inch protrusion. If there is insufficient line, due to allowable tolerance in length of dropline, a full stow may be impossible in channel 8.



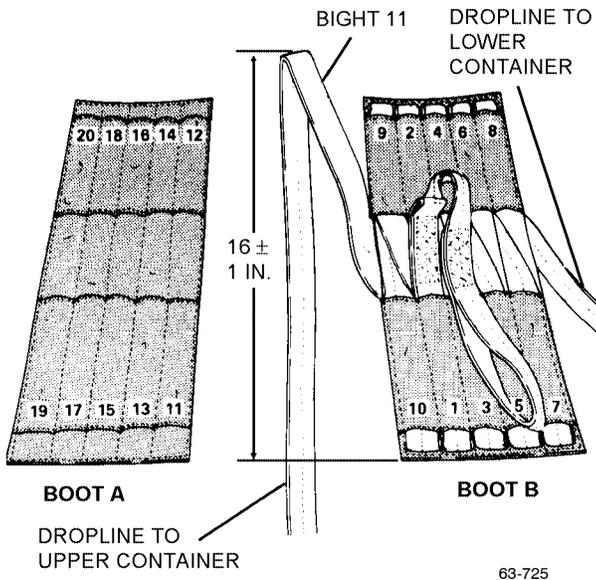
Step 7 - Para 8-24

63-724

NOTE

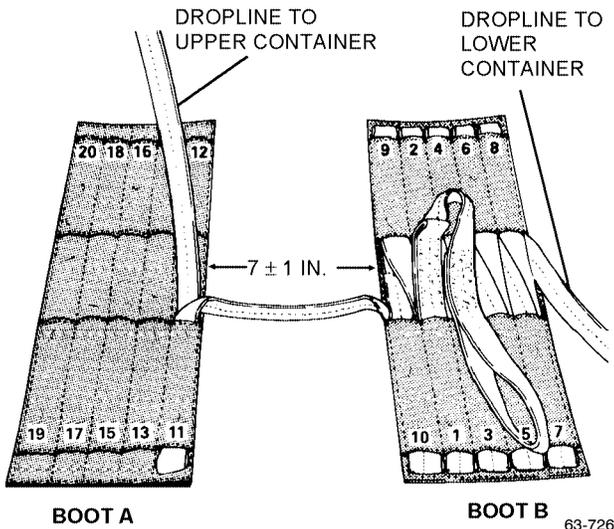
Upon the completion of [step 7](#), identification yarn shall be visible at channels 1, 3, 5, 7 and 10 and shall not show at channels 2, 4, 6, 8 and 9.

8. Form bight 11 in dropline 16 ± 1 inch from bottom of last bight (bight 10) in boot B.



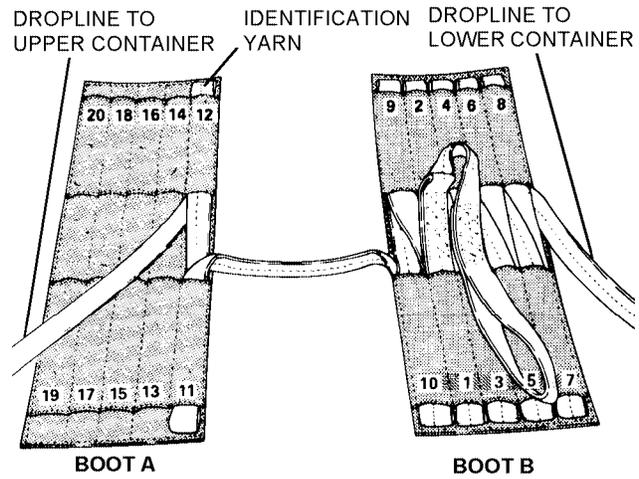
Step 8 - Para 8-24

9. Stow bight 11 (formed in [step 8](#)) in channel 11 of boot A. There shall be 7 ± 1 inch of dropline between boots A and B when bight 11 is stowed. Identification yarn shall not show at protrusion.



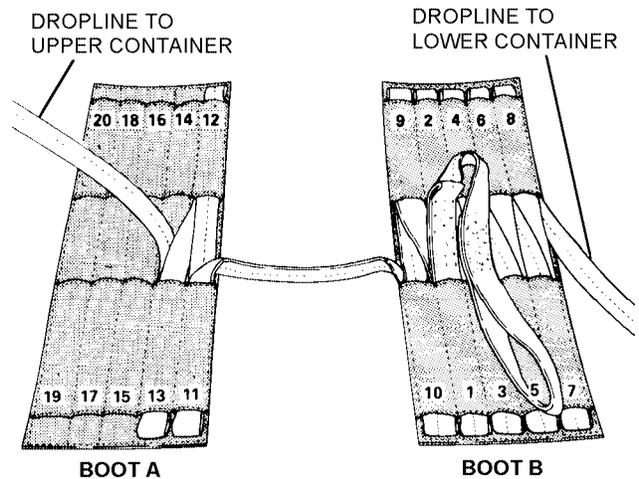
Step 9 - Para 8-24

10. Stow bight 12 in channel 12 of boot A. Identification yarn shall be visible at protrusion.



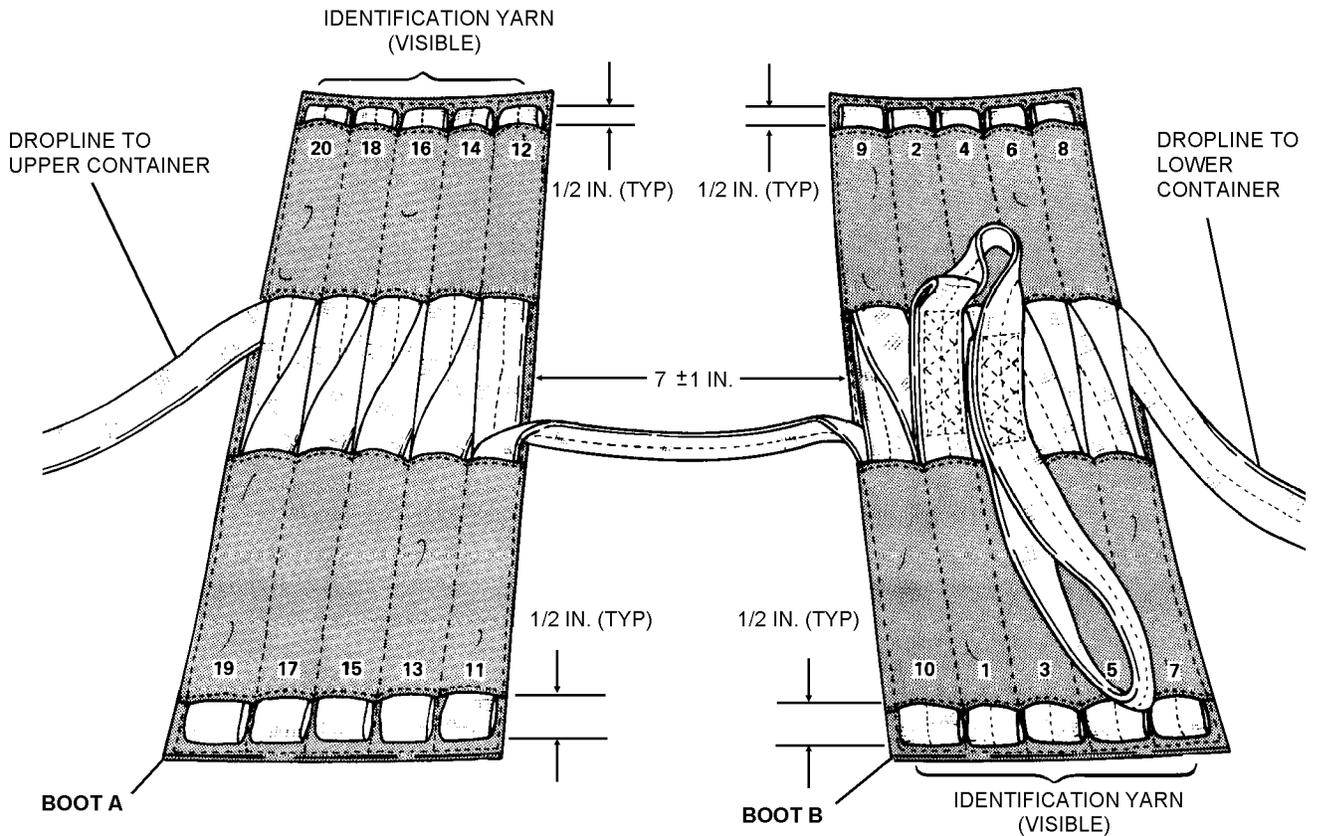
Step 10 - Para 8-24

11. Stow bight 13 in channel 13. Identification yarn shall not show at protrusion.



Step 11 - Para 8-24

12. Continue stowing bights in boot A until all line is stowed. Maintain 1/2-inch protrusion ([figure 8-8](#)).



63-727A

Figure 8-8. Stowage of Dropline

NOTE

Upon the completion of [step 12](#), identification yarn shall be visible at channels 12, 14, 16, 18 and 20 and shall not show at channels 11, 13, 15, 17, and 19.

13. (CDI) Ensure all stows are properly formed and that there are no twists in dropline.

8-25. LIFERAFT PREPARATION, FOLDING, RIGGING AND PACKING. To prepare, fold, rig and pack the LR-1 liferaft, proceed as follows:

Materials Required

| Quantity | Description | Reference Number |
|-------------|--|--------------------------------|
| As Required | Thread, Nylon Type II, Class A, Size E | V-T-295 NIIN 00-244-0609 |
| As Required | Cord, Nylon Type III, 550-Pound | MIL-C-5040 NIIN 00-240-2146 |
| As Required | Talc, Technical | MIL-T-50036 |
| As Required | Thread, Nylon Type II, Class A, Size 6 | V-T-295 NIIN 00-559-5211 |

NAVAIR 13-1-6.3-1

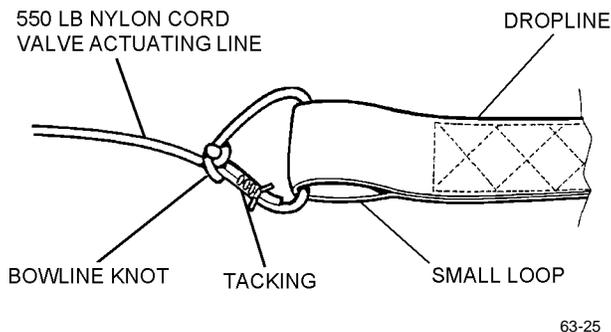
Support Equipment Required

| Quantity | Description | Reference Number |
|----------|------------------------------|-------------------------|
| 1 | Wrench, Torque 0-150 Lb. In. | TE-6FUA (CAGE 55729) |

1. If the valve actuating line is damaged, incorrectly installed or not installed, install new line in accordance with [steps 2](#) and [3](#).

2. Cut a 15-inch length of 550-pound nylon cord and sear ends.

3. Route one end through small loop on dropline and tie bowline knot. Tack with three turns of waxed, size E nylon thread, single. Tie ends with surgeon's knot followed by square knot.



Step 3 - Para 8-25

4. Lay liferaft assembly flat with inside facing upward ([step A](#), [figure 8-9](#)).

5. Ensure all trapped air is expelled from liferaft. Ensure oral inflation valve is locked and stowed in pocket prior to folding.

6. Lightly dust entire liferaft assembly with talc.

7. Secure sea anchor line in 3-inch bights, fold and stow in pocket ([step B](#), [figure 8-9](#)).

8. Roll and secure weathershield ([step C](#), [figure 8-9](#)).

9. Fold liferaft.

NOTE

Maximum width of folded liferaft shall not exceed width of RSSK-3 container.

a. Fold stern of liferaft over approximately 4 inches ([step D](#), [figure 8-9](#)).

b. Fold liferaft over at rear of CO₂ cylinder ([step E](#), [figure 8-9](#)).

c. Fold bow of liferaft over to fold formed in [step b](#) ([step F](#), [figure 8-9](#)).

d. Fold bow portion of liferaft over on top of previous folds. Maximum width of folded liferaft shall not exceed width of RSSK-3 container. Adjust folds as necessary ([step G](#), [figure 8-9](#)).

10. Turn folded liferaft over. Place liferaft assembly forward of lower container with CO₂ cylinder positioned toward lower container and facing up. Inflation valve assembly shall face release handle side of survival kit.

WARNING

Gas under pressure. Do not loosen or attempt to remove inflation valve assembly from CO₂ cylinder.

11. Disconnect inflation valve from inlet valve of liferaft. Do not remove cylinder from stowage pocket. Retain anti-chafing disc on inlet check valve.

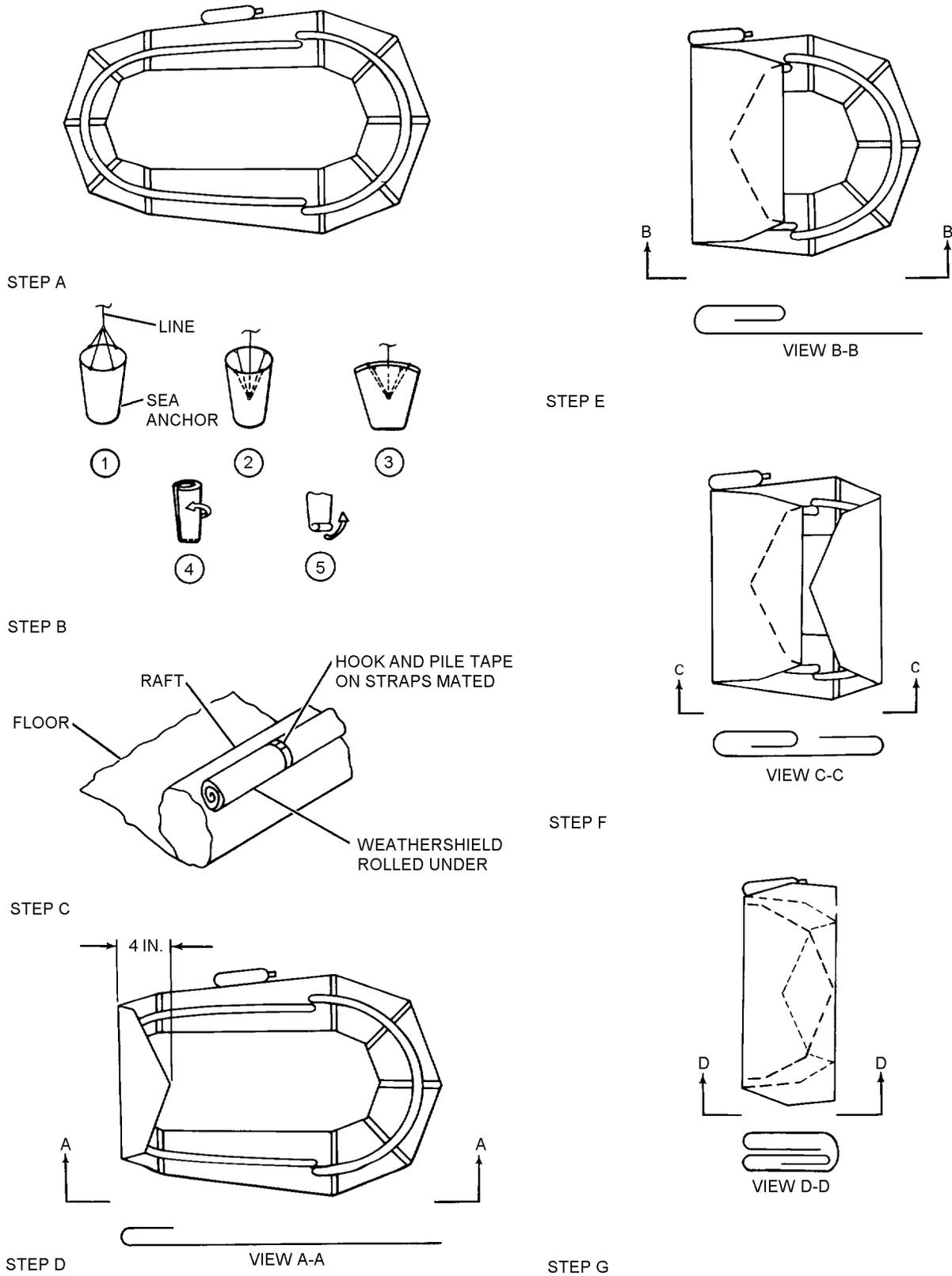
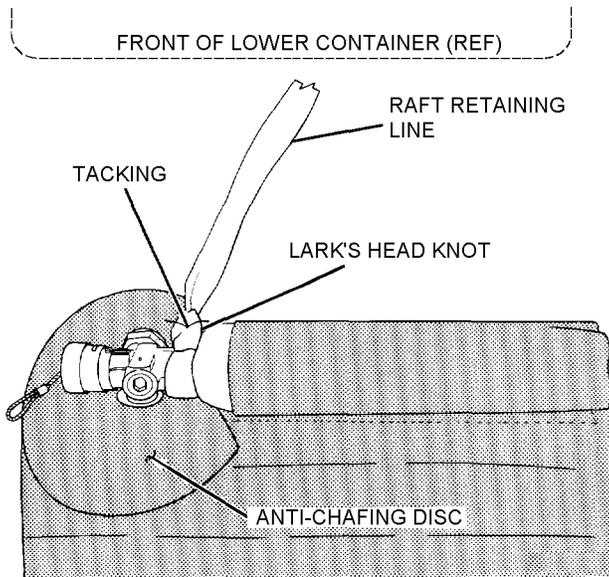


Figure 8-9. Folding Liferaft

NAVAIR 13-1-6.3-1

12. Attach liferaft retaining line to neck of cylinder with lark's head knot. Pull knot tight and tack with two turns of waxed nylon thread, size 6, single. Tie ends with surgeon's knot followed by square knot.



63-709A

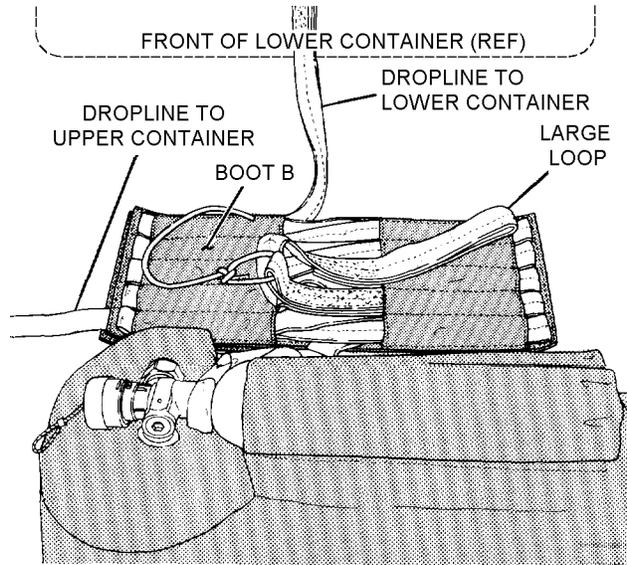
Step 12 - Para 8-25

13. Accordion-fold remainder of retaining line and stow in liferaft retaining line pocket. Close pocket enclosure tab and secure hook and pile tape.

NOTE

When repositioning boots, it may be necessary to move upper container. Make adjustments as necessary.

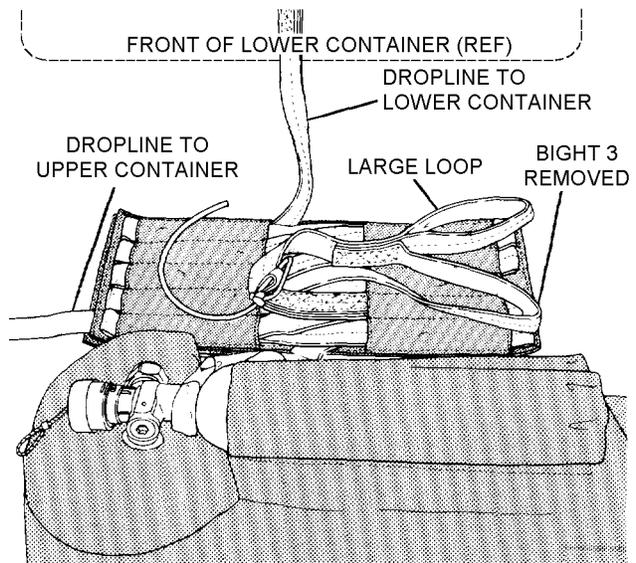
14. Position boot B on top of boot A and place boots between liferaft and lower container with large loop of dropline facing to the right.



63-728

Step 14 - Para 8-25

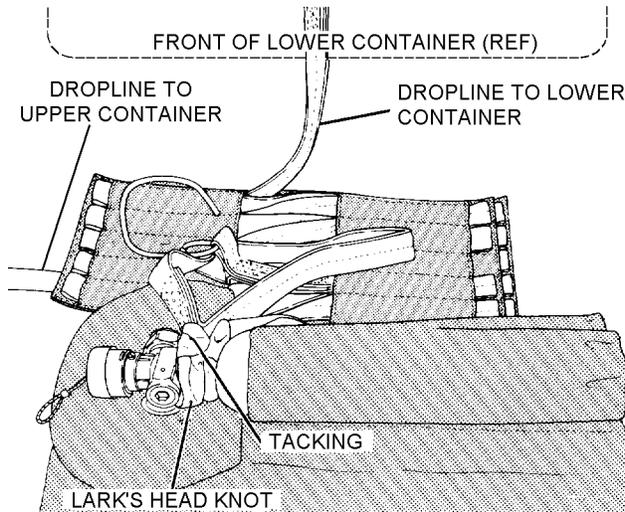
15. Remove bight from channel 3, boot B.



63-729

Step 15 - Para 8-25

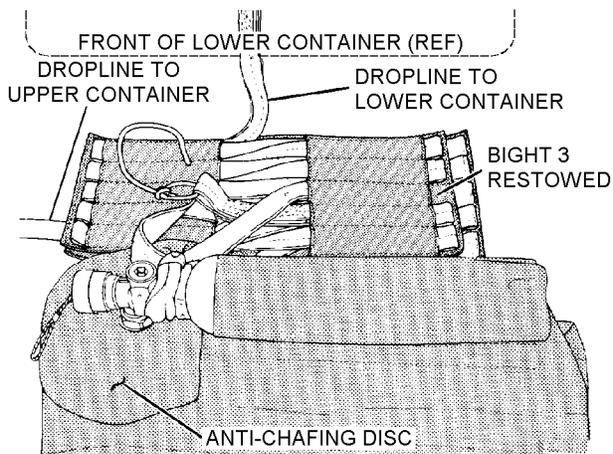
16. Attach large loop of dropline around neck of inflation valve at cylinder with a lark's head knot. Pull knot tight and tack with two turns of waxed nylon 6-cord, single. Tie ends with a surgeon's knot followed by square knot.



Step 16 - Para 8-25

63-730

17. Ensure CO₂ cylinder anti-chafing disc is installed. Reinstall inflation valve on liferaft inlet valve and tighten coupling nut to a torque value of 80 to 90 in-lbs. Stow bight removed from channel 3 of boot B. Bight will not extend full length of channel.



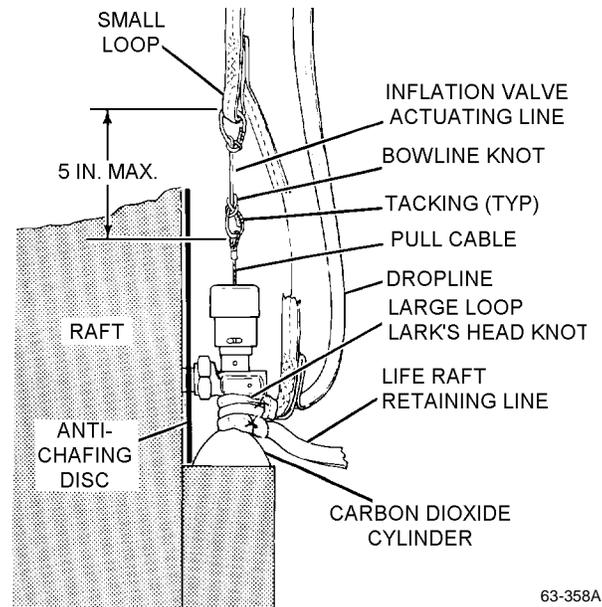
Step 17 - Para 8-25

63-731

WARNING

Final dimension of valve actuating line is critical. Finished length shall not exceed 5 inches.

18. Pass actuating line through loop in end of pull cable. Tie a loop using bowline knot. Tack with three turns of waxed nylon thread, size E, single. Tie ends with surgeon's knot followed by square knot. Finished length shall not exceed 5 inches.



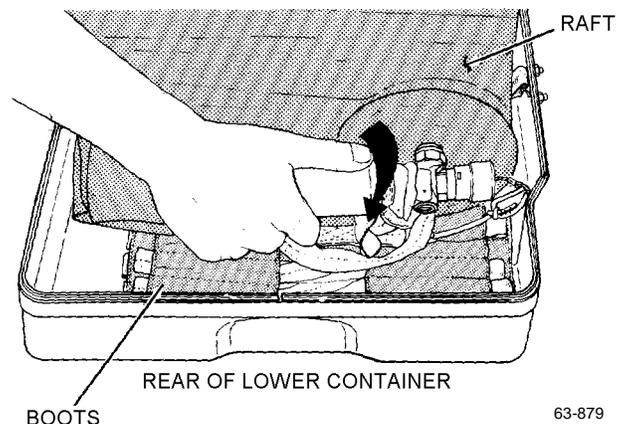
Step 18 - Para 8-25

63-358A

NOTE

Ensure CO₂ bottle is not resting on lower lid dimple. This will prevent bowing of upper lid and aid in kit closure.

19. Place boots in aft section of lower container and rotate CO₂ cylinder away from packer so that cylinder rests on top of boots.



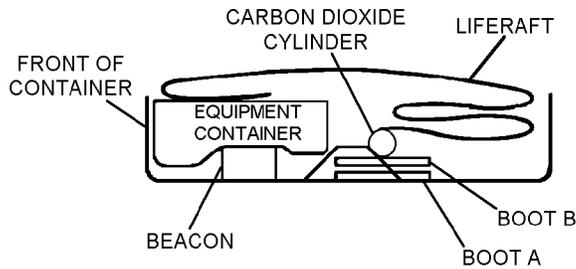
Step 19 - Para 8-25

63-879

NAVAIR 13-1-6.3-1

20. Position excess dropline in such a manner as to avoid any possibility of entanglement.

21. Fold and stow liferaft as shown.



63-880

Step 21 - Para 8-25

22. Place liferaft cover over liferaft and equipment container and tuck cover around liferaft, using a fid to push edges of cover down. Ensure that latch locks are free from obstruction and that liferaft cover does not protrude beyond edges of container.

23. Ensure flexible antenna is routed around periphery of lower container.

24. Route excess dropline out rear center of lower container.

8-26. CLOSING CONTAINER. To close the container, proceed as follows:

1. Place upper container on top of lower container and engage hinges on front of container halves.

2. While closing container, check for obstructions. Lay excess dropline on top of liferaft cover.

3. When container is closed, push forward on striped release handle.

4. Examine oxygen gage for full indication. If recharging is necessary, refer to [paragraph 8-40](#).

5. Perform release handle pull test in accordance with [paragraph 8-27](#).

6. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

8-27. Release Handle Pull Test. To perform a release handle pull test, proceed as follows:

Support Equipment Required

| Quantity | Description | Reference Number |
|----------|--------------------------------|---------------------|
| 1 | Push/Pull Gage, 0 to 50 Pounds | DPP-50 (CAGE 11710) |

1. Measure force required to unlock release handle with push/pull gage. Force required shall be 10 to 30 pounds.

2. Close container after pull test.

8-28. COCKPIT ROUTING AND INSTALLATION OF EMERGENCY RADIO BEACON LANYARD.

To rig emergency radio beacon for automatic actuation after beacon is installed in survival kit, proceed as follows:

Materials Required

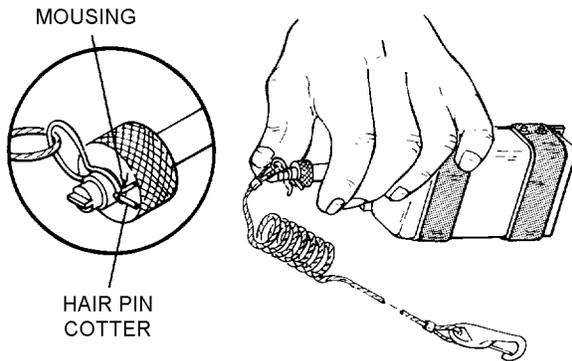
| Quantity | Description | Reference Number |
|-------------|---|-----------------------------|
| 1 | Lanyard, Actuation | CL204C4-8 (CAGE 80206) |
| As Required | Thread, Nylon, Type II, Class A, Size E | V-T-295 NIIN 00-244-0609 |

CAUTION

Do not release indicator plunger. Maintain pressure and keep plunger depressed until temporary hairpin cotter is replaced.

1. Depress indicator plunger on end of actuator indicator assembly and remove temporary hairpin cotter.

2. While maintaining pressure on plunger, secure plunger in depressed position using the hairpin cotter attached to end of beacon actuation lanyard. Insert the hairpin cotter through the aligned holes in the indicator plunger and collar from which the temporary hairpin cotter was removed. Safety-tie open end of hairpin cotter by applying single-loop mousing. Use size E nylon thread, and secure mousing loop with square knot. Cut off excess length approximately 1/8 inch from knot.



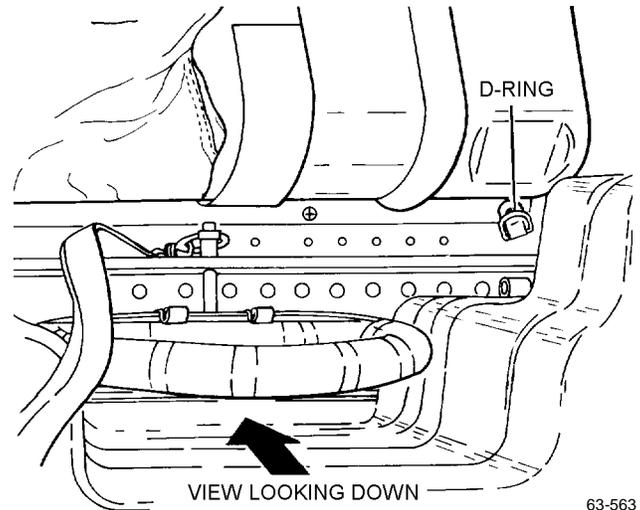
(BEACON SHOWN REMOVED FROM KIT FOR CLARITY)

NOTE: USE SINGLE LOOP MOUSING SIZE "E" NYLON THREAD.
TRIM THREAD 1/8 FROM SQUARE KNOT.

63-800A

Step 2 - Para 8-28

3. Remove existing screw on starboard side of cockpit deck and install D-ring and plate with screw (enlarge hole in D-ring plate to admit screw as necessary).

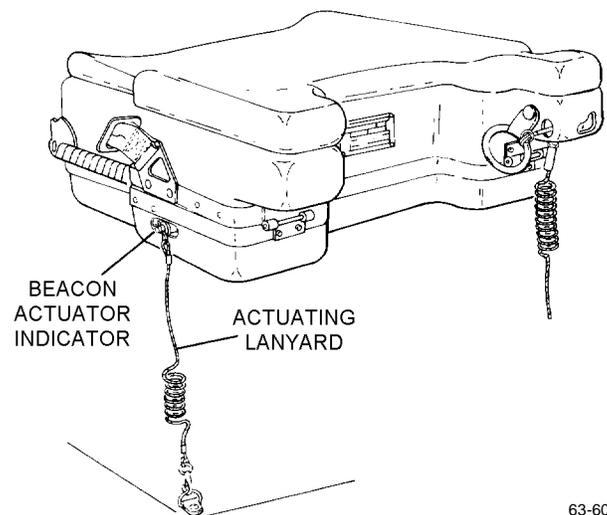


63-563

Step 3 - Para 8-28

4. Install the RSSK-3 in the aircraft with the actuating lanyard hanging over the forward edge of the seat bucket. The coiled part of the lanyard should be entirely outside seat bucket.

5. Attach the snaphook of the actuating lanyard to the D-ring.



63-607A

Step 5 - Para 8-28

6. Verify proper installation of kit into seat, and correct routing and connection of automatic actuating lanyard assembly.

Section 8-4. Turnaround/Daily/Preflight/Postflight/ Transfer/Special/Conditional Inspection

8-29. GENERAL.

8-30. The Turnaround/Daily/Preflight/Postflight or Transfer Inspections consist of a visual type inspection performed in conjunction with the aircraft inspection requirements for the aircraft in which the survival kit is installed. These inspections shall be performed by line personnel (plane captain) or delegated aircrewmembers who have been instructed and found qualified by the Aviator's Equipment Branch.

8-31. Conditional Inspection is an unscheduled inspection required as the result of a specific situation or set of conditions, e.g. hard-landing inspections or any inspection directed by higher authority that is not ordered in a technical directive.

8-32. The Special (7/14 day, etc.) Inspection shall be performed on inservice survival kit installed in aircraft and in ready room issue. This inspection shall be performed at the Organizational Level of maintenance by personnel assigned to the Aviator's Equipment Branch. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

8-33. TURNAROUND/DAILY/PREFLIGHT/POST-FLIGHT/TRANSFER OR SPECIAL INSPECTIONS. These inspections consist of a visual inspection of the following:

1. Release handle for proper seating and corrosion.
2. (ACC 655 incorporated) Negative g retention brackets for excessive wear, corrosion, and security.

3. (ACC 655 incorporated) Cable assembly for security, corrosion, and fraying.

4. Cushion for secure attachment, rips, and tears.

5. Oxygen gage for FULL indication.

6. Manual oxygen release for secure attachment.

7. Container assembly for cracks, breaks, and other obvious damage.

8. Harness assemblies for loose or frayed webbing and stitching, and cracked or broken hardware.

9. Beacon actuator indicator for bent shaft, hairpin cotter for elongation, corrosion, and proper mousing.

10. Secure attachment of beacon automatic actuation lanyard (if installed).

11. Condition of oxygen hose and secure attachment to kit. If repair procedure has been performed on oxygen hose assembly, check external wiring for secure attachment.

8-34. If discrepancies are found or suspected, Maintenance Control shall be notified.

8-35. Survival kits which do not pass inspection and cannot be repaired in the aircraft shall be removed in accordance with applicable aircraft manual and replaced with a Ready For Issue (RFI) survival kit. Non RFI survival kits shall be forwarded to the nearest maintenance activity having repair capability for corrective action.

Section 8-5. Acceptance/Phased/SDLM/PDM Inspection

8-36. GENERAL.

8-37. An acceptance inspection shall be performed on a survival kit when it is placed into service or at the time a reporting custodian accepts a newly assigned aircraft from any source and on return of an aircraft from SDLM/PDM or other major D-level rework. The Phased/SDLM/PDM inspection cycle of the survival kit shall be 448 days. In no case, however, shall the phased interval exceed 448 days. The battery test inspection cycle for the AN/URT-33A radio beacon is dependent on the type of battery installed. Refer to NAVAIR 16-30URT33-1 for battery test inspection cycles and requirements. For acceptance inspection purposes, verification of pyrotechnics and configuration is accomplished by visual record examination only. Disassembly beyond the daily inspection requirements of applicable publications is not required. Activities may elect to increase the depth of the inspection if equipment condition, visual external inspection, or record examination indicates such action is warranted.

8-38. VISUAL INSPECTION. This inspection shall be performed prior to the functional check of the kit. Visually check kit for the following:

1. Release handle for wear, corrosion, and damage.
 - 1A. (ACC 655 incorporated) Negative g retention brackets for excessive wear, corrosion, and security.
 - 1B. (ACC 655 incorporated) Cable assembly for security, corrosion, and fraying.
2. Cushion for rips, tears, and general condition.
3. Parachute attachment slide fastener for ease of operation and corrosion.
4. Upper and lower containers for cracks, corrosion, and security of hardware.
5. Webbing for loose or frayed stitching, security of attachment, and release fittings for satisfactory operation.
6. Manual oxygen release retention tab snap fastener for secure attachment and corrosion.
7. Swaged balls on cable assemblies for security of attachment.

8-39. FUNCTIONAL CHECK. The functional check shall be performed anytime a kit is placed in service, after any adjustment procedures, or when equipment

condition, visual external inspection, or record examination indicates such action is warranted to determine the condition of the kit. To perform a functional check proceed as follows:

Materials Required

| Quantity | Description | Reference Number |
|-------------|---------------------------------|------------------|
| As Required | Leak Detection Compound, Type I | MIL-L-25567 |

Support Equipment Required

| Quantity | Description | Reference Number |
|----------|-------------------------------------|---|
| 1 | Dial Push/Pull Gage, 0 to 50 Pounds | DPP-50 (CAGE 11710) |
| 1 | Test Stand | 59A120 (CAGE 02551) or 31TB1995-1 (CAGE 99251) |

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

CAUTION

Discontinue functional test if seat kit fails to pass any steps of test procedures. Repair malfunction before continuing procedures or damage to seat kit may result. After repair, the entire test procedure shall be performed.

NOTE

Performance of test stand is dependent upon skill of operator. It is imperative that operator be thoroughly familiar with instruments, controls, and connections that comprise systems incorporated in test stand. See NAVAIR 17-15BC-20 and NAVAIR 13-1-6.4-4 to familiarize yourself with 59A120 or 31TB1995 series liquid oxygen converter test stands.

NAVAIR 13-1-6.3-1

Emergency oxygen cylinder pressures used in this functional test are derived under ideal shop conditions of 70°F, 21°C. Variances in ambient air temperatures directly affect charging pressures. Refer to [table 8-5](#) for details.

Ensure that emergency oxygen cylinder is filled to 1800 to 2000 psi with oxygen.

1. Remove check valve (22, [figure 8-17](#)) from kit.

2. Remove bell jar and connect test stand fitting (C-1) to line assembly (oxygen bottle to check valve). Ensure that valve (V-2) is open and all other test stand valves are closed ([figure 8-10](#)).

3. Attach push/pull gage to manual emergency oxygen release handle.



Ensure manual oxygen release is separating type before attempting to disengage.

4. Measure force required to disengage manual oxygen release. Force required shall be 10 to 30 pounds and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

5. Reinstall manual oxygen release (if separating type) and reset reducer.

6. Turn on oxygen supply cylinder to test stand.

7. Slowly open valve (V-6) on test stand and adjust pressure on gage (PG-1) to 90 psi.

8. Measure force required to disengage manual oxygen release with push/pull gage. Force required shall be 10 to 30 pounds.

NOTE

Any degree of leakage in the oxygen system requires corrective maintenance.

9. Using leak detection compound, check all pressure lines and fittings on kit to ensure no leakage.

10. Reinstall manual oxygen release (if separating type) and reset reducer.



Do not increase pressure above 150 psi.

11. Using valve (V-6), increase pressure until relief valve unseats.

NOTE

Unseating can be determined by listening and observing gage (PG-1) on test stand.

12. Repeat [step 11](#) several times to establish a correct pressure. Relief valve shall unseat at 120 to 140 psi when pressure is increased, and reset at 110 psi minimum when pressure is decreased. Once reset, relief valve shall be leak tight.

NOTE

Pressure may be reduced below opening pressure of relief valve by closing valve (V-6) and opening valve (V-5).

13. Check relief valve with leak detection compound to ensure no leakage.

14. Close valve (V-6) and bleed oxygen pressure from system by opening valve (V-5). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

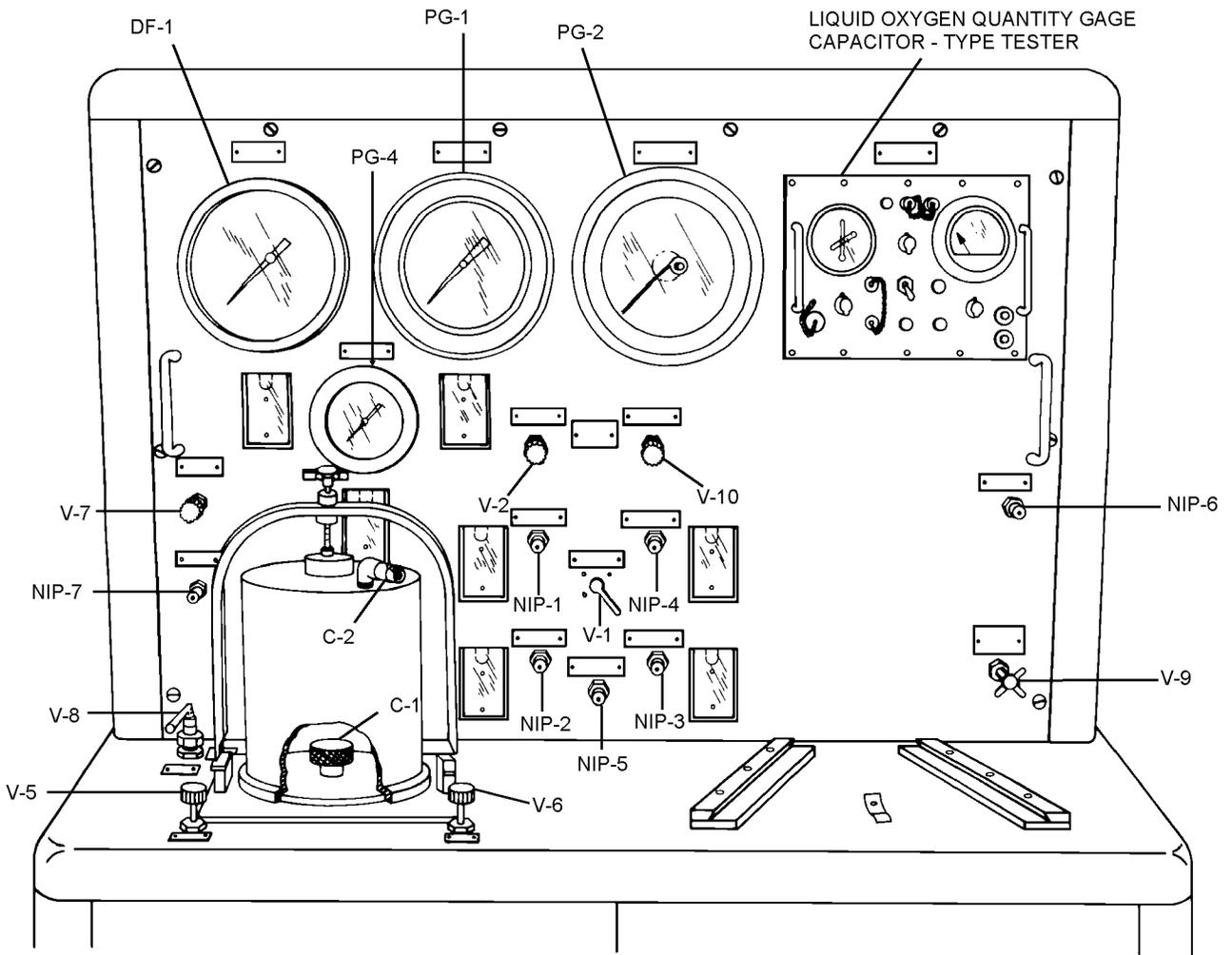
15. Close valve (V-5).

16. Ensure valve (V-2) is opened and all other test stand valves are closed.

17. Measure force required to disengage automatic oxygen release with a scale. Force required shall be 10 to 30 pounds and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

18. Reset reducer.

19. Open valve (V-5), and ensure that all other test stand valves are closed.



- | | | | |
|-------|--|------|--|
| C-1 | BELL JAR BOTTOM COUPLING | PG-2 | FLOWMETER INDICATOR GAGE |
| C-2 | BELL JAR TOP COUPLING | PG-4 | 0 - 15 PSIG LOW PRESSURE TEST GAGE |
| DF-1 | 0 - 100" H ₂ O DIFFERENTIAL PRESSURE GAGE | V-1 | FLOWMETER SELECTOR GAGE |
| NIP-1 | 0 - 0.25 LPM FLOWMETER CONNECTION | V-2 | TEST PRESSURE GAGE TO BELL JAR VALVE |
| NIP-2 | 0 - 1 LPM FLOWMETER CONNECTION | V-5 | SYSTEM BLEED VALVE |
| NIP-3 | 0 - 50 LPM FLOWMETER CONNECTION | V-6 | OXYGEN SUPPLY VALVE |
| NIP-4 | 0 - 150 LPM FLOWMETER CONNECTION | V-7 | DIFFERENTIAL PRESSURE BLEED VALVE |
| NIP-5 | CONVERTER SUPPLY OUTLET CONNECTION | V-8 | DIFFERENTIAL PRESSURE SHUT-OFF VALVE |
| NIP-6 | SUPPLY TO CONVERTER CONNECTION | V-9 | CONVERTER SUPPLY FLOW CONTROL VALVE |
| NIP-7 | DIFFERENTIAL PRESSURE GAGE CONNECTION | V-10 | TEST PRESSURE GAGE BUILD-UP AND FLOW VALVE |
| PG-1 | 0 - 160 PSIG TEST PRESSURE GAGE | | |

63-578

Figure 8-10. Test Stand Model 59A120

NAVAIR 13-1-6.3-1

20. Actuate toggle on reducer to ensure positive flow through valve (V-5). Reset reducer assembly.

21. Open valve (V-8).

22. Slowly close valve (V-5), while observing gage (DF-1).

NOTE

Observe gage (DF-1) for two minutes to ensure no leakage. Any pressure rise indicates leakage in the reducer valve seat and requires corrective maintenance.

23. Close valve (V-8), open valve (V-5), and disconnect oxygen outlet hose from fitting (C-1).

24. Ensure all valves on test stand are secured. Reinstall check valve removed in [step 1](#) and torque in accordance with [Appendix B](#).

25. Connect oxygen outlet hose to fitting (NIP-6). Ensure that valve (V-10) is open and all other test stand valves are closed.

26. Connect test stand hose to fitting (NIP-5) and fitting (NIP-4).

27. Move valve (V-1) to the (NIP-4) position.

28. Ensure that 1800 to 2000 psi is in the oxygen cylinder of the kit.

29. Pull manual oxygen release. Slowly open valve (V-9) to indicate 90 LPM on gage (PG-2). Oxygen pressure shall indicate 45 to 80 psi on gage (PG-1).

NOTE

When needle of cylinder pressure gage is between the E and F of REFILL, pressure is approximately 250 psi.

30. Using leak detection compound, inspect check valve reinstalled in [step 24](#) for leakage. No leakage allowed.

31. Observe emergency oxygen cylinder pressure gage and allow the system to decrease to 250 psi while maintaining 90 LPM and 45 to 80 psi pressure.

32. Close valve (V-9).

33. With zero flow indicated on gage (PG-2), pressure indicated on gage (PG-1) shall be 45 to 80 psi.

34. Reinstall manual oxygen release (if separating type) and reset reducer.

35. Bleed oxygen pressure from system by opening valves (V-5) and (V-2). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

36. Disconnect kit from test stand.

37. Secure test stand.

38. All areas where leak detection compound was applied shall be wiped thoroughly clean. Dry with lint-free cloth, filtered low pressure compressed air or low pressure nitrogen.

39. Recharge emergency oxygen cylinder to 1800 to 2000 psi. Refer to [paragraph 8-40](#) for charging procedures.

8-40. PURGING AND CHARGING EMERGENCY OXYGEN SYSTEM. To purge and charge the emergency oxygen system, proceed as follows:

Materials Required

| Quantity | Description | Reference Number |
|-------------|------------------------------------|------------------|
| As Required | Leak Detection Compound, Type I | MIL-L-25567 |
| As Required | Nitrogen, Type I, Class I, Grade B | BB-N-411 |

Support Equipment Required

| Quantity | Description | Reference Number |
|----------|--------------------------------|----------------------------------|
| 1 | Oxygen Purging Electric Heater | C5378 (CAGE 96787) or Equivalent |
| 1 | Shut-off Valve | — |
| 1 | Pressure Regulator | — |



Servicing of emergency oxygen system is accomplished only after removal of personnel parachute and survival kit from aircraft.

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

1. If survival kit assembly has not been removed from aircraft, remove personnel parachute and survival kit in accordance with applicable maintenance manual.



If necessary to release pressure in oxygen bottle before purging/filling, pull emergency oxygen lanyard. This releases pressure through reducer/manifold. DO NOT release pressure through filler valve. Releasing high pressure oxygen through restriction of filler valve causes heat, and fire or explosion may result.

2. Remove oxygen filler valve cap.

NOTE

If emergency oxygen system is contaminated or cylinder has remained empty for more than 2 hours, purging is required. If emergency oxygen cylinder does not warrant purging process, proceed to [step 9](#) for charging sequence.

3. Deplete emergency oxygen cylinder if necessary.

4. Connect nitrogen source to filler valve, and set reducer/manifold in accordance with [paragraphs 8-58, 8-59, or 8-62](#).

NOTE

If relief valve on Oxygen Purging Electric Heater will not allow 100 psi, raise pressure only to allowable limit.

5. Slowly pressurize to 100 psi with nitrogen at temperature of 110° to 130°C (230° to 266°F) using electric heater.

6. Turn off nitrogen source and deplete oxygen cylinder.

7. Repeat [steps 5](#) and [6](#) twice.

8. Turn off nitrogen source and disconnect.

9. Connect oxygen source to filler valve regulator and shut-off valve. Reset reducer/manifold.

10. Slowly pressurize to 100 psi.

11. Deplete cylinder to 50 psi.

WARNING

Observe filling stages as rapid application of oxygen pressure creates heat which may result in fire or explosion.

Allow no less than 3 minutes for each filling stage and 2-minute intervals for stages.

NOTE

If kit is to be stored, the emergency oxygen bottle shall be depleted or filled to 200 PSI (when needle on gage bisects E on refill). For shipping, fill or deplete to 25 PSI using the gage on the oxygen refill cylinder.

12. Charge emergency oxygen system in stages in accordance with [table 8-4](#) until pressure gage indicates correct pressure for existing ambient temperature ([table 8-5](#)).

13. Loosen oxygen source connection until all pressure is bled from high pressure line. Remove oxygen source.

NOTE

Alternate Fill Valve P/N 9120097-27 is coreless and has a maximum leakage rate of 1 cc/hr. This will be evident by very tiny bubbles passing through the top of the valve when leak detection compound is applied level to the top rim. No leaks around the threads are acceptable. If large bubbles are evident, contact survival kit FST for disposition.

14. Apply leak detection compound around filler valve, gage and reducer. Check for leaks then wipe connection clean using a lint-free cloth.

15. Reinstall oxygen filler valve cap on filler valve.

16. If the personnel parachute and survival kit assembly were removed in step 1, reinstall using the applicable maintenance manual.

Table 8-4. Charging Stages

| Stage | PSI |
|-------|------|
| 1 | 500 |
| 2 | 1000 |
| 3 | 1500 |
| 4 | 1800 |
| 5 | 2000 |

Table 8-5. Ambient Air Temperature Vs Charging Pressures

| Ambient Air Temperature | | Charging Pressure |
|-------------------------|-----|-------------------|
| °F | °C | PSI |
| 0 | -18 | 1550-1750 |
| 10 | -12 | 1600-1775 |
| 20 | -7 | 1625-1800 |
| 30 | -1 | 1675-1850 |
| 40 | 5 | 1700-1875 |
| 50 | 10 | 1725-1925 |
| 60 | 16 | 1775-1975 |
| 70 | 21 | 1800-2000 |
| 80 | 27 | 1825-2050 |
| 90 | 32 | 1875-2075 |
| 100 | 38 | 1900-2125 |
| 110 | 43 | 1925-2150 |
| 120 | 49 | 1975-2200 |
| 130 | 54 | 2000-2225 |

Section 8-6. Maintenance

8-41. GENERAL.

WARNING

Keep working area clean and free of oil, grease and dirt. Do not attempt to perform any component removal with the oxygen system pressurized.

8-42. This section contains procedures for troubleshooting, disassembly, cleaning, inspection of disassembled parts, repair or replacement of parts, assembly and adjustment. Work shall be performed in a clean, dust- and grease-free area.

8-43. TROUBLESHOOTING.

8-44. Where troubles or operating malfunctions are encountered, locate probable cause and remedy using [table 8-6](#).

8-45. DISASSEMBLY.

8-46. Disassemble the RSSK-3 using the index numbers assigned to [figure 8-16 through 8-20](#). Disassemble the RSSK-3 only as far as necessary to correct any malfunctions or damage.

WARNING

Ensure that the emergency oxygen system is fully exhausted prior to any disassembly action.

NOTE

Discard all O-rings, packings, gaskets, seals, and antiseize tape removed from oxygen connections during disassembly. Discard all threaded inserts, rivets, rubber pads, seals, molding, or hook and pile fastener tape removed during disassembly of kit.

When disassembling the reducer/manifold of the emergency oxygen system, ensure

that the cam is in the release position (reducer on). This will relieve the spring tension on the internal parts.

8-47. CLEANING.

8-48. To clean the disassembled oxygen and non-oxygen components of the kit (except for cushions and fabric components) refer to [NAVAIR 13-1-6.4-1](#).

8-49. CLEANING CUSHIONS AND FABRIC COMPONENTS. Clean seat cushions and all fabric components as follows:

Materials Required

| Quantity | Description | Reference Number |
|-------------|----------------------------|---------------------------------|
| As Required | Cleaning Compound | MIL-C-25769 |
| As Required | Detergent, General Purpose | MIL-D-16791 |
| As Required | Lint-free Cloth | MIL-C-85043 NIIN 00-044-9281 |

NOTE

If using cleaning compound (MIL-C-25769), combine one part compound to three parts water. If using general purpose detergent, follow directions on container.

1. Prepare detergent or cleaning compound (MIL-C-25769) solution.

2. Apply solution to soiled area with spray or sponge.

3. Allow solution to remain on surface for few minutes, then scrub with soft brush or cloth.

4. Rinse surface thoroughly with water; wipe with cloth or sponge.

NOTE

Repeat [steps 1 through 4](#) until material is clean.

Table 8-6. Troubleshooting

| Trouble | Probable Cause | Remedy |
|---|--|--|
| Survival Kit (Figure 8-16) | | |
| Upper container fails to separate from lower container when release handle is pulled. | Faulty release handle (41). | Replace release handle. |
| Loss of aircraft communications. | Broken or misaligned pins and sockets in hose connectors; open or short circuit in oxygen hose wiring. | Perform electrical check in accordance with circuit in oxygen hose wiring chapter 4 . |
| Emergency Oxygen System P/N 29604-A1/-A2A (Figures 8-17 and 8-18) | | |
| Low or zero indication on pressure gage (25, figure 8-17). | Cylinder empty. | Charge cylinder. |
| | Leaking connections and/or components. | Tighten connections and replace defective parts. |
| | Defective gage. | Replace gage. |
| Cylinder unable to retain charge. | Leakage through inlet valve (36, figure 8-17). | Clean inlet valve and seat; replace if defective. |
| | Leakage at cylinder and pressure reducer housing. | Remove reducer from cylinder. Inspect threads for burring, stripping, or distortion. Replace as necessary. |
| | Leakage through recharge valve assembly. | Disassemble, clean, and inspect recharger valve. Replace if defective. |
| Emergency oxygen does not actuate when manual oxygen release or emergency is pulled. | Cable (4 or 5, figure 8-17) broken. | Replace cable. |
| | Release not engaged in fitting. | Install correctly or replace. |
| Difficulty in arming procedure. | Foreign material on bearing surfaces of release cam (3, figure 8-18). | Disassemble release mechanism and clean release cam in accordance with NAVAIR 13-1-6.4-1. |
| Emergency oxygen relief valve does not operate within the 120 to 140 psi range. | Relief valve incorrectly set. | Adjust to meet required specification in accordance with paragraph 8-63 . |
| | Defective relief valve. | Replace relief valve. |
| Emergency oxygen pressure not within 45 to 80 psi. | Reducer/manifold outlet pressure incorrectly set. | Adjust reducer/manifold in accordance with paragraph 8-61 . |
| | Defective reducer/manifold. | Replace reducer/manifold. |

Table 8-6. Troubleshooting (Cont)

| Trouble | Probable Cause | Remedy |
|---|--|---|
| Emergency Oxygen System P/N 29604-A1/-A2A (Figures 8-17 and 8-18) (Cont) | | |
| Excessive outlet pressure with relief valve exhausting. | Reducer/manifold incorrectly set. | Adjust reducer/manifold in accordance with paragraph 8-61. |
| | Faulty inlet valve (36, figure 8-17). | Disassemble, clean, and inspect inlet valve. Repair or replace as necessary. |
| Excessive outlet pressure with relief valve not exhausting. | Reducer/manifold incorrectly set and faulty relief valve. | Adjust reducer/manifold in accordance with paragraph 8-61. Adjust relief valve in accordance with paragraph 8-63. |
| Insufficient outlet pressure with relief valve exhausting. | Relief valve out of adjustment or defective. | Adjust relief valve in accordance with paragraph 8-63 or replace if defective. |
| Insufficient outlet pressure with relief valve not exhausting. | Cylinder empty. | Charge cylinder. |
| | Leakage through recharge valve assembly. | Disassemble, clean, and inspect recharge valve assembly. Repair or replace as necessary. |
| | System leakage (ruptured housing, leaks at connections or preformed packing, etc.) | Leak-test system; repair or replace as necessary. |
| | Reducer/manifold incorrectly set. | Adjust reducer/manifold in accordance with paragraph 8-62. |
| Emergency Oxygen System P/N F1513000-1/-5/-7/-9 (Figures 8-19 and 8-20) | | |
| Low or zero indication on pressure gage (11, figure 8-19). | Cylinder empty. | Charge cylinder. |
| | Leaking connections and/or components. | Tighten connections and replace defective parts. |
| | Defective gage. | Replace gage. |
| Leaking connections and/or components. | Improperly tightened connections or damaged components. | Tighten connections and replace defective parts. |
| Charging valve assembly will not hold pressure. | Worn or damaged valve core (17, figure 8-19). | Replace valve core. |
| Excessive force required to operate actuator assembly. | Cables frayed or tubing bent (1, figure 8-20). | Replace actuator assembly. |
| Emergency oxygen relief valve does not operate within the 120 to 140 psi range. | Relief valve incorrectly set. | Adjust to meet required specification in accordance with paragraph 8-63. |

Table 8-6. Troubleshooting (Cont)

| Trouble | Probable Cause | Remedy |
|--|--|---|
| Emergency Oxygen System P/N F1513000-1/E/E/P (Figure 8-19 and 8-20) (Cont) | | |
| Emergency oxygen relief valve does not operate within the 120 to 140 psi range. (Cont) | Defective relief valve assembly. | Replace relief valve assembly. |
| Relief valve bleeds after reseating. | Seat assembly (6, Figure 8-19) worn or damaged. | Replace seat assembly. |
| | Insert (8, Figure 8-19), packing (9), and/or retaining ring (7) worn or damaged. | Replace insert, packing, and retaining ring. |
| Relief valve setting decreases with repeated operations. | Spring (5, Figure 8-19) flattened. | Replace spring. |
| Emergency oxygen pressure not within 45 to 80 psi. | Reducer/manifold out pressure incorrectly set. | Adjust reducer/manifold in accordance with paragraph 8-62. |
| Emergency oxygen outlet pressure creeps up. | Worn or damaged diaphragm (18, Figure 8-20). | Replace diaphragm. |
| | Dirty or pitted valve seat (21, Figure 8-20). | Replace valve seat. |
| | Damaged valve stem (23, Figure 8-20). | Replace valve stem. |
| | Scored, worn, or pitted packing (22, Figure 8-20). | Replace packing. |
| | Washer (7, Figure 8-20) not thick enough. | Replace with a thicker, different dash number washer or add washer. |
| No emergency oxygen when reducer/manifold actuated (cylinder charged). | Broken adjusting spring (12, Figure 8-20). | Replace adjusting spring. |
| | Worn or damaged diaphragm (18, Figure 8-20). | Replace diaphragm. |
| | Valve stem (23, Figure 8-20) too short. | Replace valve stem. |
| | Washer (7, Figure 8-20) too thick. | Replace with a thinner, different dash number washer. |
| Erratic emergency oxygen outlet pressure. | Scored spring stem (17, Figure 8-20). | Replace spring stem. |

Table 8-6. Troubleshooting

| Trouble | Probable Cause | Remedy |
|---|--|----------------------|
| Emergency Oxygen System P/N F1513000-1/E5/E7/E9 (Figure 8-19 and 8-20) (Cont) | | |
| Erratic emergency oxygen outlet pressure. (Cont) | Damaged valve stem (23, Figure 8-20). | Replace valve stem. |
| | Valve guide (19, Figure 8-20) nicked or worn internally. | Replace valve guide. |
| Emergency oxygen outlet pressure changes with each operation. | Set screw (10, Figure 8-20) not tight. | Tighten setscrew. |

5. Repeat step 4 until material is free from all solution.

6. Allow material to dry thoroughly.

8-50. INSPECTION OF DISASSEMBLED PARTS.

8-51. Inspect the disassembled parts for damage, distortion, corrosion and other damage in accordance with table 8-7. Inspect survival items in accordance with NAVAIR 13-1-6.5.

8-52. REPAIR AND REPLACEMENT.

8-53. REPAIR. Repair of individual components within any assembly is authorized only in accordance with procedures outlined in this manual. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

8-54. Repair of Cushion Assembly. Repair of the cushion assembly depends on type of cushion attached to the container. Cloth covered cushions are limited to sewing of loose or open seams, broken stitches and repair of small rips and tears. Repairs of foam cushions are limited to the container assembly, using adhesive spray, 3M Super 74 Foam Fast (NSN 8040-00-181-7761).

8-55. REPLACEMENT. All individual components that fail to pass inspection shall be replaced except

where repair procedure is indicated. Refer to source code listing (SM&R Code), in Numerical Index of Illustrated Parts Breakdown to aid in determining replaceable components. All adjustable components or assemblies that failed to pass respective tests shall be readjusted to meet required specifications.

8-56. ASSEMBLY.

NOTE

The tamper dot on the Oxygen Hose Assembly shall be applied to the fitting in a manner which provides easy identification for inspection purposes when the seat kit is installed in the seat.

8-57. Assemble the kit in accordance with instructions in the following paragraphs using index numbers of figure 8-16 through 8-20 as references. Refer to Appendix B and ensure all nuts and fittings are properly torqued. The torque value for inlet tubing connector on oxygen hose assembly shall be 80 to 100 in-lb. Torque value for outlet tubing connector on oxygen hose assembly shall be 100 to 125 in-lb. After all nuts and fittings are properly torqued, apply tamper dots to all oxygen fittings shown in figure 8-16 through 8-20. Use torque MIL-E-17178, Fed. Std. 595. Use any contrasting color when applying tamper dots to oxygen fittings.

Table 8-7. Inspection

| Component | Task |
|---|--|
| Survival Kit (Figure 8-16) | |
| Cushion assembly | Check cushion for cracks and breaks. |
| | Check for secure attachment to upper container. |
| LH and RH strap assemblies | Check webbing for wear and damage and for frayed, loose, or broken stitching. |
| Equipment container | Check for loose or frayed stitching and ease of operation and corrosion of slide fastener. |
| Decals | Check for legibility and security of attachment. |
| Survival items | Inspect in accordance with NAVAIR 13-1-6.5. |
| Upper Container (Figure 8-16) | |
| Oxygen bottle clamps (12, 13) | Check inside portion of oxygen clamps for secure attachment of rubber cushion material. |
| Pins (10) | Check for wear and distortion. |
| Slide fastener (9) | Check for security of attachment and ease of operation and corrosion. |
| Dropline | Check for worn, frayed, or damaged webbing. |
| Container | Check for cracks and damage. Check bonded and riveted parts for security of attachment. |
| Negative g Retention Brackets (ACC 655 incorporated) | Check for excessive wear and security of attachment. |
| Cable Assemblies (ACC 655 incorporated) | Check for security of attachment, fraying, and corrosion. |
| Lower Container (Figure 8-16) | |
| Shield | Check for bending and security of attachment. |
| Hinge | Check for secure attachment to lower container. |
| Container | Check for cracks and damage. Check bonded and riveted parts for security of attachment. |
| Handle (Figure 8-16) | |
| Cam (38) | Inspect for wear and damage. |
| Pin (45) | Check for wear and damage. |
| Roller (46) | Check for damage and wear. |
| Spring (44) | Check for distortion and wear. |

Table 8-7. Inspection (Cont)

| Component | Task |
|---|---|
| Reducer/Manifold (Figure 8-16) | |
| Check Valve (22) | Check for damaged threads. |
| Housing | Check for breaks, gouges and other obvious damage. Check parts and threaded areas for damage. |
| Emergency Oxygen System P/N 29604-A1/-A2A (Figures 8-17 and 8-18) | |
| Oxygen cylinder (33, figure 8-17) | Inspect for general cleanliness and residual cleaning compound. |
| | Inspect end fitting and threads for damage. |
| | Inspect cylinder for bulges, cracks, dents, nicks, gouges, and scratches which penetrate metal; carefully inspect area adjacent to welds. |
| Pressure reducer housing (39, figure 8-17) | Inspect for damaged threads and fractures in housing. |
| Roller (17, figure 8-17) | Inspect for wear. |
| Release cam (3, figure 8-18) | Inspect for wear. |
| Adjusting nut (10, figure 8-17) and jamnut (11) | Inspect for looseness; if loose, adjust in accordance with paragraph 8-61. |
| Emergency Oxygen System P/N F1513000-1/-5/-7/-9 (Figures 8-19 and 8-20) | |
| Emergency oxygen system | Inspect for general cleanliness and residual cleaning compound. |
| Oxygen cylinder (22, figures 8-19) | Inspect end fitting and threads for damage. |
| | Inspect cylinder for bulges, cracks, dents, nicks, gouges, and scratches which penetrate metal; carefully inspect area adjacent to welds. |
| Spring stem (17, figure 8-20) | Inspect for bends, nicks, uneven wear, or improper finish. |
| Pressure reducer body (29, figure 8-20) | Inspect for damaged threads and fractures in housing. |
| Screws (13, 20, figure 8-19) | Inspect for damaged threads. |
| Guide (19, figure 8-20) | Inspect for uneven wear. |
| Adjusting nut (9, figure 8-20) | Inspect for any damage. |
| Pressure reducing spring housing (13, figure 8-20) | Inspect for damaged threads and cleanliness. |
| Reducer actuator assembly (1, figure 8-20) | Inspect for cracks in tubing, frayed cables, breaks in silver brazing, or any other obvious damage. |
| Off-on lever (6, figure 8-20) | Inspect for uneven wear. |

WARNING

The emergency oxygen system must be kept absolutely free of oil, grease, or any substance not approved for use in the presence of high-pressure oxygen. No lubrication is permitted.

NOTE

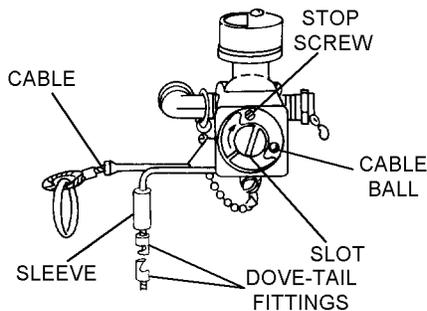
Many repair parts for emergency oxygen systems are provided in the form of repair or overhaul kits. See applicable assembly in *Illustrated Parts Breakdown*. Ensure that new parts are used when assembling oxygen systems wherever applicable.

8-58. PIONEER CENTRAL REDUCER/MANIFOLD RESETTING (figure 8-11). To reset, proceed as follows:

1. Mate dove-tail fittings and insert into sleeve.
2. Turn slot on head counterclockwise until cable ball is seated firmly against stop screw.

8-59. FIREWEL REDUCER/MANIFOLD RESETTING (figure 8-12). To reset, proceed as follows:

1. Pull manual oxygen release to hold pin out of way so clevis fitting can be actuated.
2. While holding manual oxygen release, use screw driver to force clevis fitting aft.
3. Release manual oxygen release and use screw driver to ensure that release pin is completely inserted.



63-302

Figure 8-11. Resetting (Pioneer Central)

4. Turn locknut clockwise until it is free of threads and slip up on cable housing. Turn sleeve clockwise to run it far enough up so that ball end of cable can be installed.

5. Insert ball end of cable and turn sleeve counterclockwise until it is snug against collar. Tighten locknut.

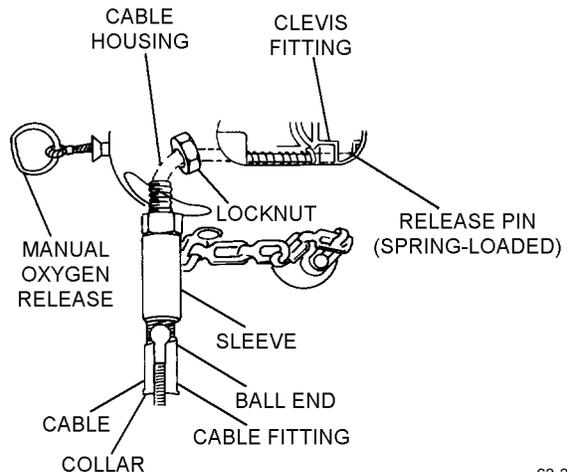
8-60. ADJUSTMENT.

8-61. ADJUSTMENT OF INSTRUMENT AND LIFE SUPPORT DIVISION REDUCER/MANIFOLD P/N 29604-A1/-A2A. To adjust the emergency oxygen outlet pressure, proceed as follows:

NOTE

Reference numbers in parentheses refer to figure 8-17.

1. Loosen jamnut (11).
2. Turn adjusting nut (10) to extend or retract piston (8) on cocking shaft (16). Extending the piston increases outlet pressure; retracting the piston decreases outlet pressure.
3. Tighten jamnut (11) firmly against adjusting nut (10).



63-301

Figure 8-12. Resetting (Firewel)

8-62. ADJUSTMENT OF FIREWEL REDUCER/MANIFOLD P/N F1513000-1/-5/-7/-9. To adjust the emergency oxygen outlet pressure, proceed as follows:

NOTE

Reference numbers in parentheses refer to [figure 8-20](#).

1. Check operation of lever (6) by switching it from OFF to ON position several times.

NOTE

Washer (7) is available in three thicknesses; select and install a washer that will allow full oxygen flow with lever (6) in the ON position and no flow in the OFF position. Flow restriction or binding in lever operation indicates washer (7) is too thick.

2. Loosen screw (2) and remove actuator assembly (1).
3. Loosen screw (5) and slide out pin (4) removing off-on lever (6).
4. Remove washer (7) and spacer (8).

5. Using a wrench, turn adjusting nut (9) to set emergency oxygen outlet pressure. Turn adjusting nut (9) clockwise to increase emergency oxygen outlet pressure and counterclockwise to decrease outlet pressure.

6. Reassemble actuator assembly.

8-63. ADJUSTMENT OF OXYGEN RELIEF VALVE PRESSURE. To adjust the RSSK-3 oxygen relief valve proceed as follows.

1. Perform functional check in accordance with [paragraph 8-39, steps 11, 12, and 13](#).

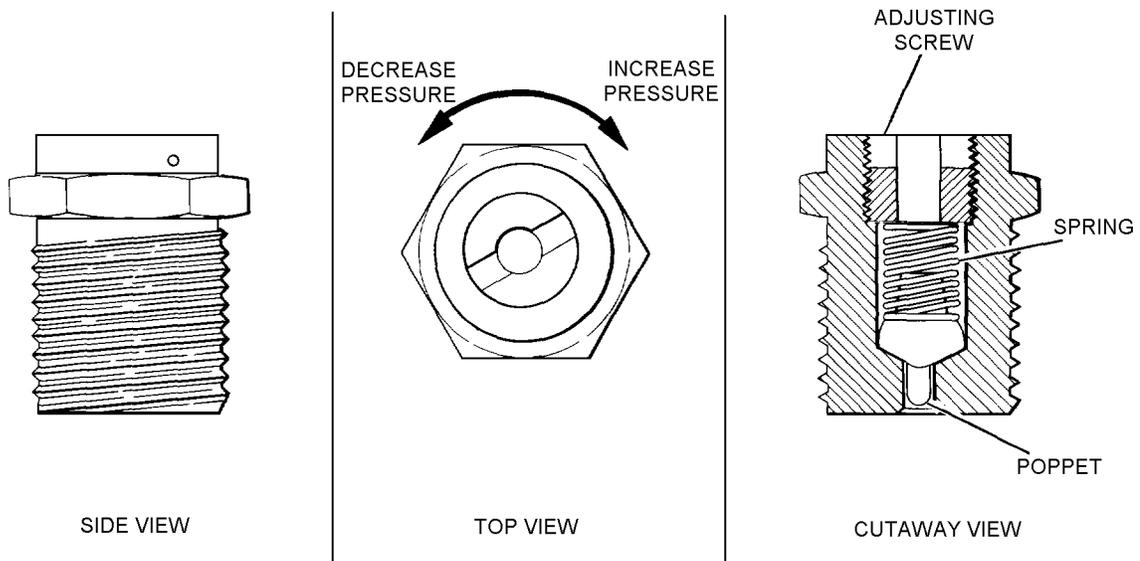
2. If relief valve does not unseat between 120 to 140 psi, reduce pressure to zero and remove relief valve.

NOTE

Turn in incremental adjustments of 1/2 plus or minus 1/4.

3. Adjust valve unseating pressure by turning the adjusting screw clockwise to increase relief valve pressure and counterclockwise to decrease ([figure 8-13](#)).

4. Install relief valve and recheck pressures.



63-991

Figure 8-13. Relief Valve

Section 8-7. Fabrication

8-64. GENERAL.

8-65. This section contains instructions for fabrication of components that can be manufactured by local maintenance activities.

8-66. DROPLINE. To fabricate a dropline, proceed as follows:

Materials Required

| Quantity | Description | Reference Number |
|-------------|---|--------------------------------|
| As Required | Webbing, Yellow Tubular, 3/4-Inch Wide | MIL-W-5625 NIIN 00-753-6531 |
| As Required | Thread, Nylon, Type I, Class A, Size FF, Color: White | V-T-295 NIIN 00-267-3024 |

1. Lay out webbing and position identification yarn on top before proceeding.

2. Construct a dropline in accordance with figure 8-14.

3. Sear exposed ends of webbing.

4. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitch 1/2-inch minimum.

8-67. BOOT. To fabricate a boot, proceed as follows:

Materials Required

| Quantity | Description | Reference Number |
|-------------|---|------------------------------|
| As Required | Nylon | MIL-C-8135 or MIL-C-81395 |
| As Required | Thread, Nylon, Type I, Class A, Size FF, Color: White | V-T-295 NIIN 00-267-3024 |

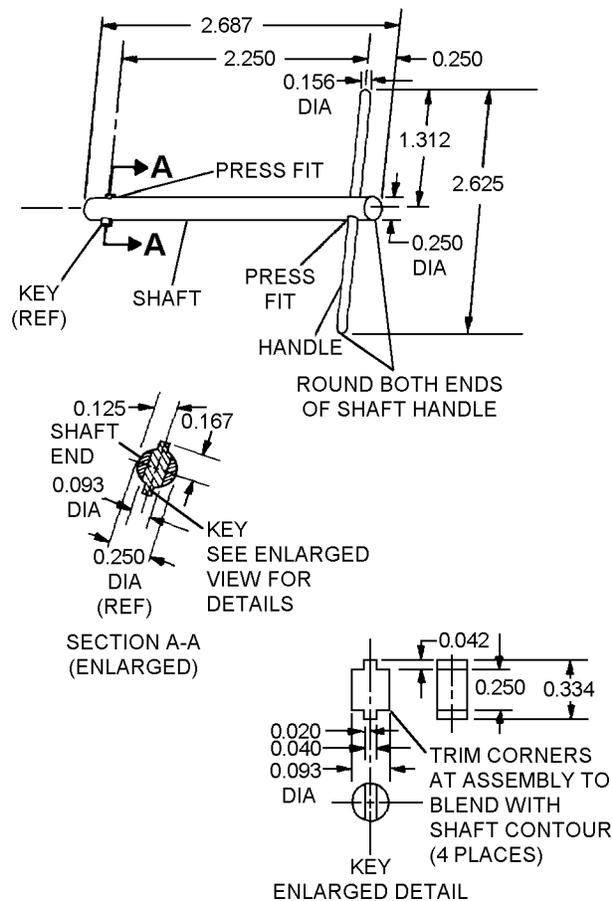
1. Construct a boot in accordance with figure 8-15.

2. Sear exposed ends of webbing and avoid sharp edges.

3. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitch 1/2 inch minimum.

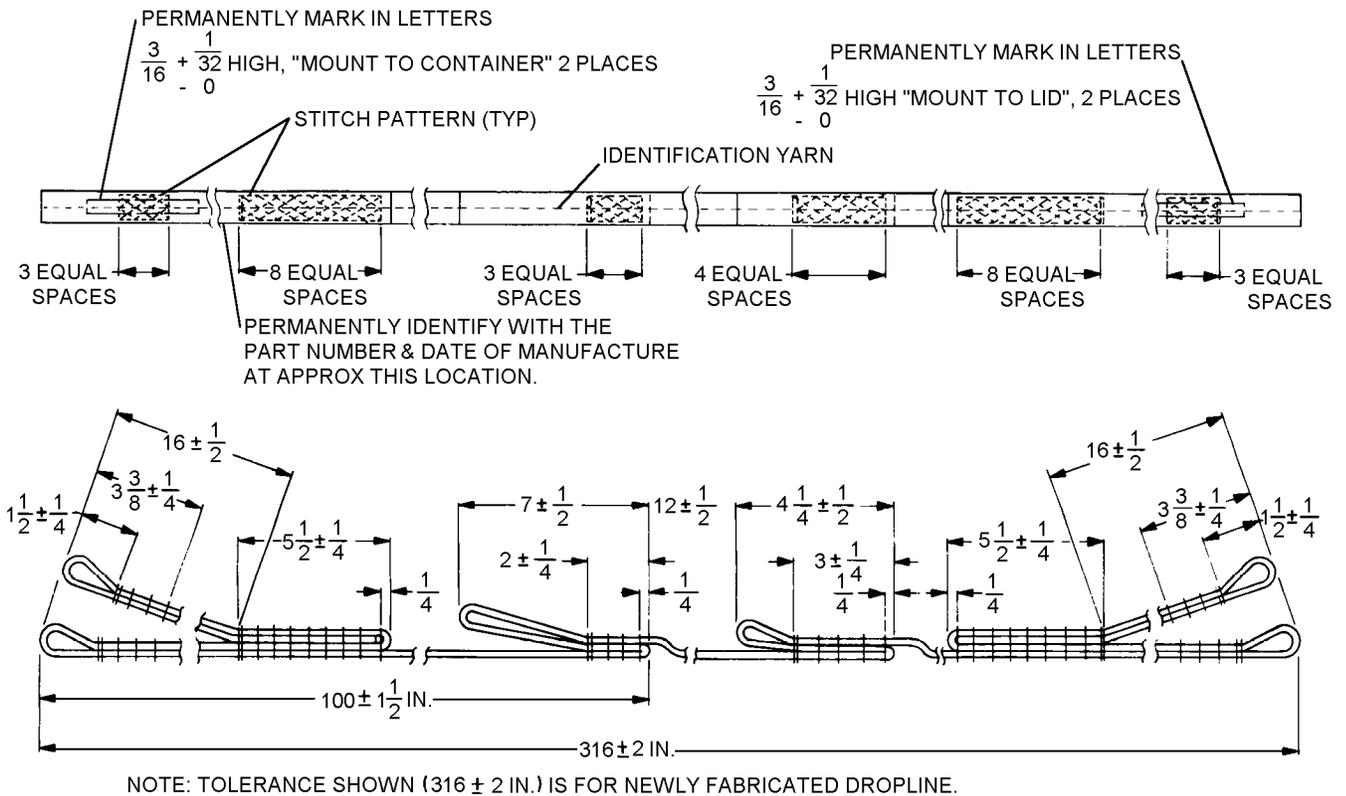
8-68. T-WRENCH. To fabricate a T-wrench, proceed as follows:

1. Fabricate wrench from steel as shown.



63-388

Step 1 - Para 68



63-228

Figure 8-14. Dropline

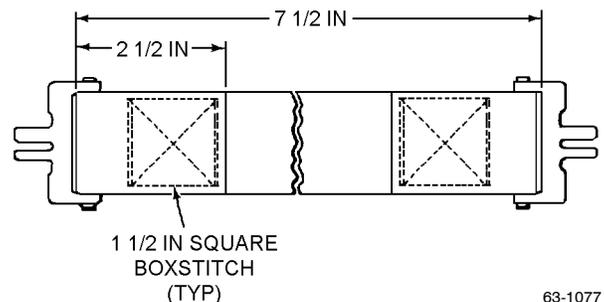
8-69. BRAKE RIDER'S STRAP. To fabricate a brake rider's strap, proceed as follows:

2. Sear exposed ends of webbing.

3. Secure fittings with 1 1/2-inch square box stitch. All stitching shall be ASTM-D-6193, Type 301, 4 to 6 stitches per inch, and backstitch 1/2-inch minimum.

Materials Required

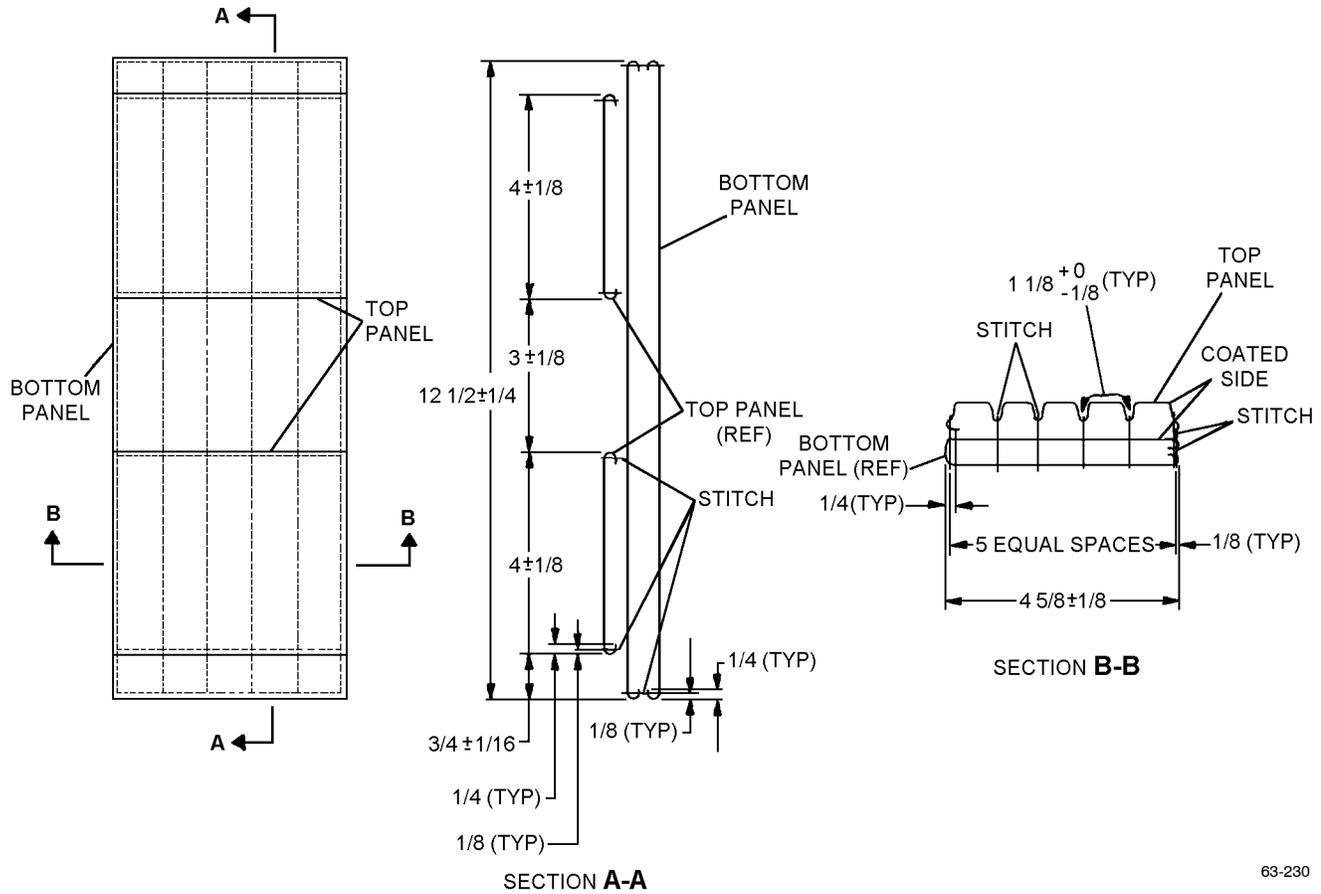
| Quantity | Description | Reference Number |
|-------------|---|-----------------------------|
| 2 | Release Assembly Lapbelt Fitting | 015-11366-1 (CAGE 99449) |
| 24 Inches | Webbing, Nylon, Type XXVII, 1 23/32 Inches Wide | MIL-W-4088 NIIN 00-530-1489 |
| As Required | Thread, Nylon, Type II, Class A, Size 6 | V-T-295 NIIN 00-559-5211 |



63-1077

1. Cut a piece of nylon webbing 24 inches in length.

Step 3 - Para 8-69



63-230

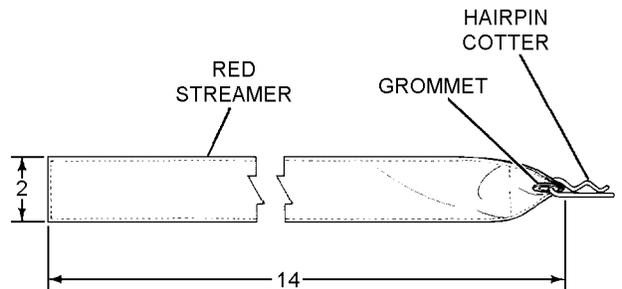
Figure 8-15. Boot

8-70. TEMPORARY HAIRPIN COTTER (AN/URT-33 RADIO BEACON). Fabricate radio beacon temporary hairpin cotter as follows:

1. Using red cotton duck cloth fabricate temporary hairpin cotter as shown.

Materials Required

| Quantity | Description | Reference Number |
|-------------|---|---------------------------|
| 1 | Pin, Cotter, Hairpin | LHCOTC (CAGE 96652) |
| 1 | Grommet, Size 00 | MS20230-B20 |
| As Required | Cotton Cloth, Red Duck | MIL-C-10799 or Equivalent |
| As Required | Thread, Nylon, Type II, Class A, Size E | V-T-295 NIIN 00-244-0609 |



63-597A

Step 1 - Para 8-70

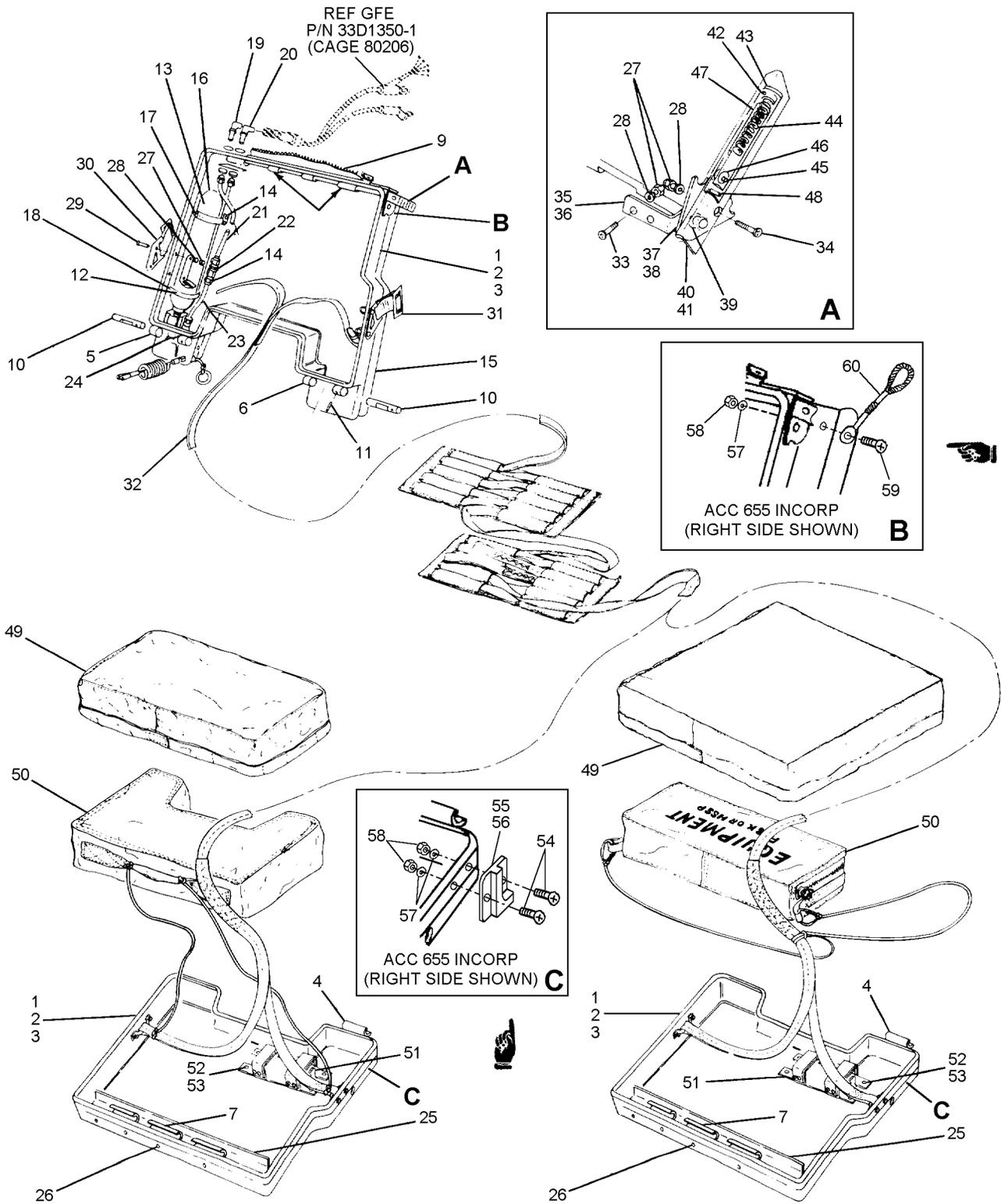
Section 8-8. Illustrated Parts Breakdown

8-71. GENERAL.

Kit Assembly as manufactured by North American Rockwell Corporation.

8-72. This section lists and illustrates the assemblies and detail parts of the RSSK-3 Rigid Seat Survival

8-73. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.



63-300A

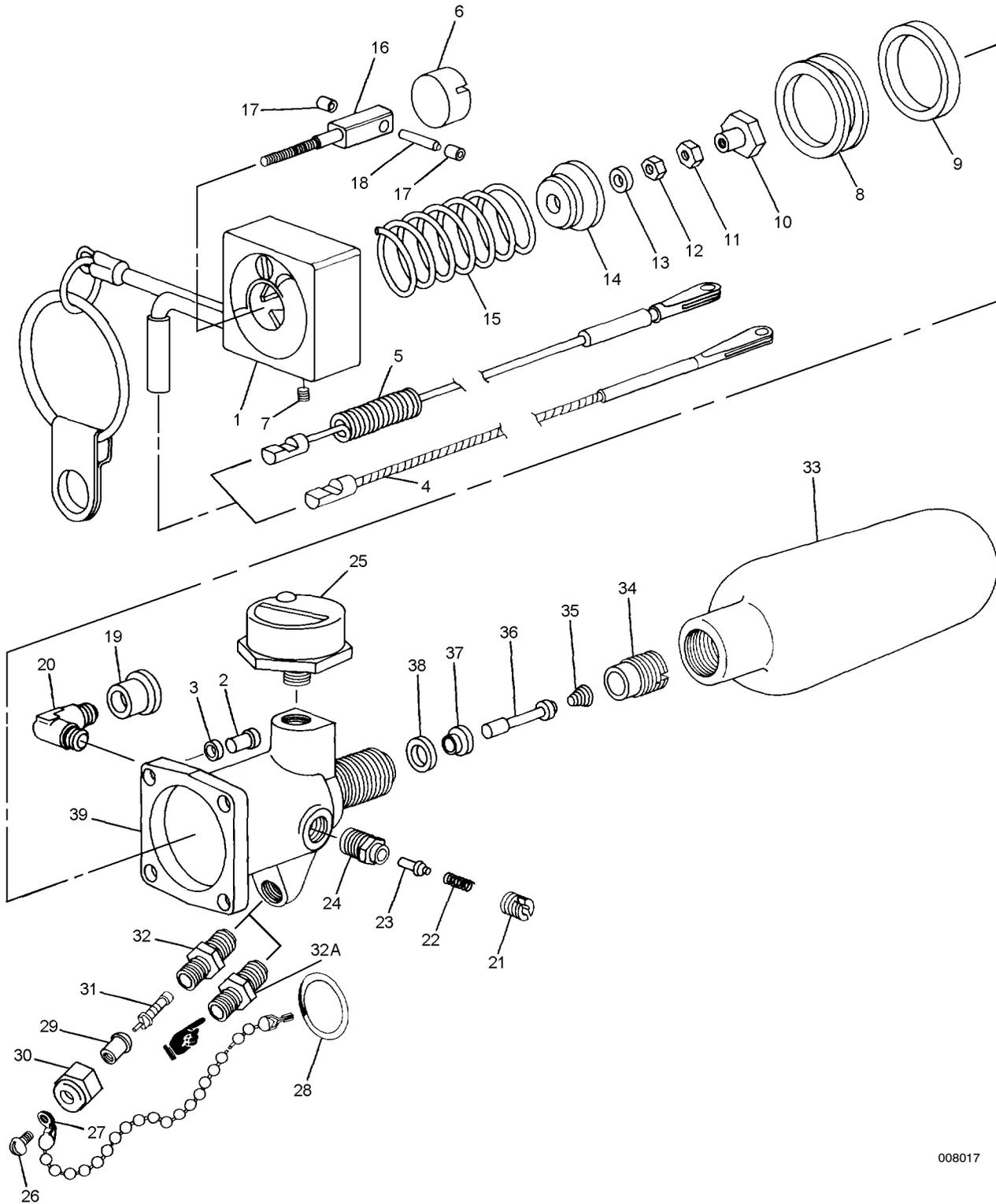
Figure 8-16. Rigid Seat Survival Kit-3

| Figure and Index Number | Part Number | Description | | | | | | | Units Per Assembly | Usable On Code |
|-------------------------|---------------|---|---|---|---|---|---|---|--------------------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| 8-16 | | SURVIVAL KIT ASSEMBLY, RSSK-3 | | | | | | | REF | |
| -1 | 249-53050-41 | . CONTAINER ASSEMBLY | | | | | | | 1 | |
| -2 | 249-530102-31 | . . CONTAINER | | | | | | | 1 | |
| -3 | 249-530102-41 | . . . CONTAINER SUBASSEMBLY | | | | | | | 1 | |
| -4 | 249-530167-7 | HINGE | | | | | | | 2 | |
| -5 | 249-530167-5 | HINGE | | | | | | | 1 | |
| -6 | 249-530167-3 | HINGE | | | | | | | 1 | |
| -7 | 249-530103-7 | HINGE | | | | | | | 1 | |
| -8 | 249-530103-5 | HINGE | | | | | | | 1 | |
| -9 | 249-530105 | PANEL, Slide fastener assembly of | | | | | | | 1 | |
| -10 | 249-530198 | . . . PIN | | | | | | | 1 | |
| -11 | NAS561P3-7 | . . . PIN (80205) | | | | | | | 2 | |
| -12 | 249-530107-31 | . . . CLAMP, Oxygen supply | | | | | | | 1 | |
| -13 | 249-530107-41 | . . . CLAMP, Oxygen supply | | | | | | | 1 | |
| -14 | 247-530106 | . . . BOLT | | | | | | | 4 | |
| | NAS679A3 | . . . NUT (80205) | | | | | | | 4 | |
| | 2W18-10M | . . . WASHER, Flat (43999) | | | | | | | 4 | |
| -15 | 249-530102-25 | . . . SEAT PAD | | | | | | | 1 | |
| -16 | 29604-A1 | . . OXYGEN SYSTEM, Emergency (99251) | | | | | | | 1 | |
| | | (See figure 8-17 for BKDN) (Note 5) | | | | | | | | |
| | 29604-A2A | . . OXYGEN SYSTEM, Emergency (99251) | | | | | | | 1 | |
| | | (See figure 8-17 for BKDN) (Note 5) | | | | | | | | |
| | F1513000-1 | . . OXYGEN SYSTEM, Emergency (03990) | | | | | | | 1 | |
| | | (See figure 8-19 for BKDN) (Note 5) | | | | | | | | |
| | F1513000-5 | . . OXYGEN SYSTEM, Emergency (03990) | | | | | | | 1 | |
| | | (See figure 8-19 for BKDN) (Note 5) | | | | | | | | |
| | F1513000-7 | . . OXYGEN SYSTEM, Emergency (03990) | | | | | | | 1 | |
| | | (See figure 8-19 for BKDN) (Note 5) | | | | | | | | |
| | F1513000-9 | . . OXYGEN SYSTEM, Emergency (03990) | | | | | | | 1 | |
| | | (See figure 8-19 for BKDN) (Note 5) | | | | | | | | |
| -17 | NAS2221-10 | . . . SCREW (80205) | | | | | | | 2 | |
| | 2W18-10M | . . . WASHER, Flat (43999) | | | | | | | 2 | |
| -18 | NAS221-16 | . . . SCREW (80206) | | | | | | | 2 | |
| | 2W18-10M | . . . WASHER, Flat (43999) | | | | | | | 2 | |
| -19 | AN833-5D | . . . ELBOW (88044) | | | | | | | 1 | |
| | 2W18-816M | . . . WASHER, Flat (43999) | | | | | | | 1 | |
| | AN924-5D | . . . NUT (88044) | | | | | | | 1 | |
| -20 | AN833-4D | . . . ELBOW (88044) | | | | | | | 1 | |
| | 2W18-716M | . . . WASHER, Flat (43999) | | | | | | | 1 | |
| | AN924-4D | . . . NUT (88044) | | | | | | | 1 | |
| -21 | 249-73357 | . . . MANIFOLD, Oxygen | | | | | | | 1 | |
| -22 | AN6030-1 | . . . CHECK VALVE, Oxygen (88044) | | | | | | | 1 | |

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| Figure and Index Number | Part Number | Description 1 2 3 4 5 6 7 | Units Per Assembly | Usable On Code |
|-------------------------|-----------------|--|--------------------|----------------|
| | | | | |
| 8-16-23 | 249-73305-79 | . . . LINE ASSEMBLY, Emergency oxygen pressure from bottle to check valve | 1 | |
| -24 | AN515-4R6 | . . . SCREW (88044) | 1 | |
| | H10-04 | . . . NUT (75237) | 1 | |
| | 2W18-4 | . . . WASHER, Flat (43999) | 1 | |
| -25 | 249-530190-7 | . . SHIELD | 1 | |
| -26 | NAS220-7 | . . SCREW (80205) | 5 | |
| -27 | 26CL-02 | . . NUT, Cap (80539) | 7 | |
| -28 | 2W18-10M | . . WASHER, Flat (43999) | 7 | |
| -29 | NAS1203-8W | . . BOLT (80205) | 4 | |
| -30 | 249-530123-11 | . . RISER, L.H. | 1 | |
| -31 | 249-530123-21 | . . RISER, R.H. | 1 | |
| -32 | 36H1323-31 | . . DROPLINE ASSEMBLY (80206) | 1 | |
| | 249-530125 | . . DROPLINE ASSEMBLY (89372) | 1 | |
| -33 | NAS1203-6W | . . BOLT (80205) | 2 | |
| -34 | NAS1203-9W | . . BOLT (80205) | 1 | |
| -35 | 249-530119 | . . CAM, Release assembly | 1 | |
| -36 | 249-530121 | . . . SUPPORT, Release cam | 1 | |
| -37 | 249-530119-11 | . . . CAM SUBASSEMBLY, Release cam | 1 | |
| -38 | 249-530120-3 | CAM, Release | 1 | |
| -39 | 249-530122 | BUSHING, Release cam | 1 | |
| -40 | 249-530112 | . . HANDLE ASSEMBLY, Release | 1 | |
| -41 | 249-530113 | . . . HANDLE | 1 | |
| -42 | NAS561P2-7 | . . . PIN (80205) | 1 | |
| -43 | 249-530118 | . . . RETAINER, Release handle spring | 1 | |
| -44 | 249-530117 | . . . SPRING, Compression | 1 | |
| -45 | 249-530116 | . . . PIN, Release handle | 1 | |
| -46 | 249-530115 | . . . ROLLER, Release handle | 1 | |
| -47 | 249-530114 | . . . PLUNGER, Release handle | 1 | |
| -48 | 52-012-062-0125 | . . . ROLLPIN (72962) | 1 | |
| -49 | 249-530189 | . . COVER, Raft (Note 1) | 1 | |
| | 36D1321 | . . COVER, Raft (Note 2) | 1 | |
| -50 | 249-530110 | . . CONTAINER ASSEMBLY, Equipment (Note 3) | 1 | |
| | 68A77D4-1 | . . CONTAINER ASSEMBLY, Equipment | 1 | |
| -51 | CL204D2-1 | . . BRACKET ASSEMBLY, Radio (KF) beacon (Note 4) | 1 | |
| -52 | MS20470A4-7 | . . RIVET (KF) | 4 | |
| -53 | AN960PD-4 | . . WASHER (KF) | 4 | |
| -54 | MS24694-S54 | . . SCREW, Machine (96906) | 4 | |
| -55 | 3647AS101-7 | . . BRACKET, L.H. (Note 6) | 1 | |
| -56 | 3647AS101-8 | . . BRACKET, R.H. (Note 6) | 1 | |
| -57 | AN960C10 | . . WASHER, Flat (88044) | 6 | |
| -58 | 22K1-02 | . . NUT, Self-locking (72962) | 6 | |

| Figure and Index Number | Part Number | Description | Units Per Assembly | Usable On Code |
|--|--------------|-----------------------------------|--------------------|----------------|
| | | 1 2 3 4 5 6 7 | | |
| -59 | MS27039-1-08 | . . SCREW, MACHINE (96906) | 2 | |
| -60 | 3647AS102-1 | . . CABLE ASSEMBLY (Note 6) | 2 | |
| | V66-1ACC-161 | . . PARTS KIT (F) | 1 | |
| Notes: 1. Only used with equipment container 249-530110. 2. Only used with equipment container assembly 68A77D4-1. 3. Use until spare stock is exhausted; then replace with P/N 68A77D4-1. 4. After incorporation of ACC 161, Part 7, Amend 1. 5. Any of six emergency oxygen systems can be installed on the RSSK-3. 6. May be requisitioned as a kit from Naval Air Systems Command Central Kitting Activity, 235 Industrial Loop, Suite 182, Orange Park, FL 32073 until supplies are exhausted. | | | | |



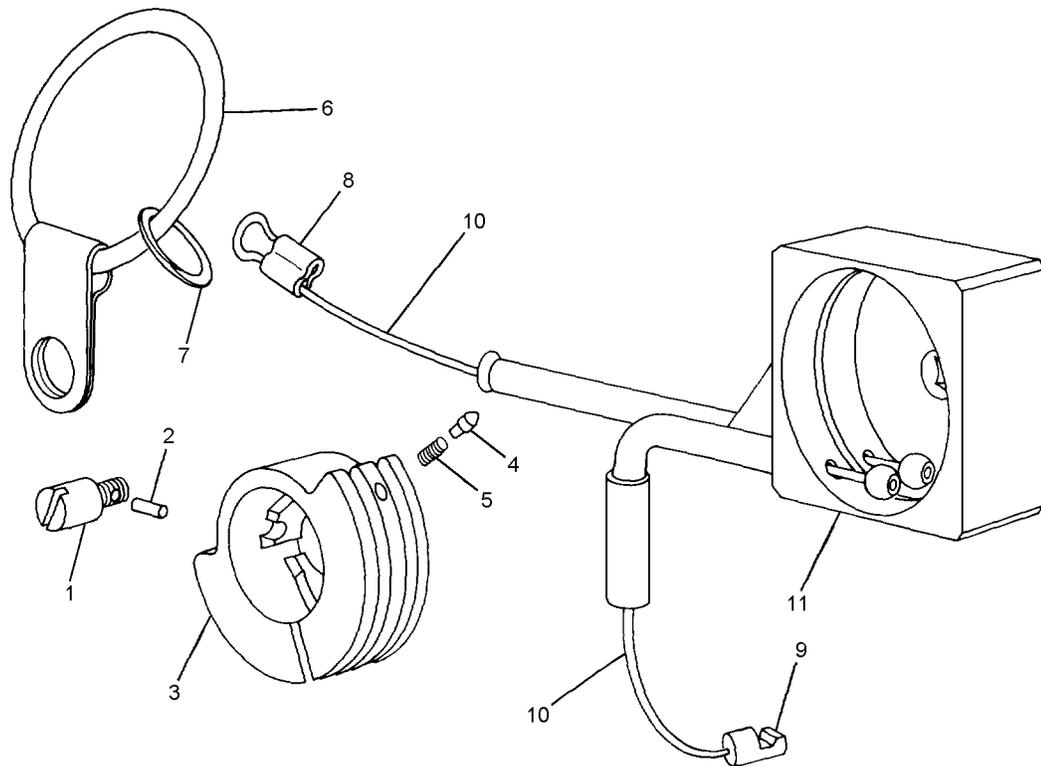
008017

Figure 8-17. Emergency Oxygen System, Part No. 29604-A1 and 29604-A2A

| Figure and Index Number | Part Number | Description 1 2 3 4 5 6 7 | Units Per Assembly | Usable On Code |
|-------------------------|-----------------|---|--------------------|----------------|
| | | | | |
| 8-17 | 29604-A1 | OXYGEN SYSTEM ASSEMBLY | REF | A |
| | 29604-A2A | OXYGEN SYSTEM ASSEMBLY | REF | B |
| -1 | 1607326-1 | . CAM AND CABLE ASSEMBLY | 1 | |
| | | (See figure 8-18 for BKDN) | | |
| -2 | ASHO-404-1/2SCP | . SCREW, Allen, SCH, CRES 4-48 X 9/32, | 4 | |
| | | ATT PT (KF) | | |
| -3 | LWO-4SCP | . LOCKWASHER, CRES 4 SCR, ATT PT (KF) | 4 | |
| -4 | 1607320-1 | . CABLE ASSEMBLY, Fixed | 1 | A |
| -5 | 1617889-1 | . CABLE ASSEMBLY, Fixed | 1 | B |
| -6 | 1608024-1 | . INSERT, Cam | 1 | |
| -7 | 1608235-1 | . . . SETSCREW, Allen, ATT PT (KF) | 1 | |
| -8 | 1607285-1 | . PISTON, Valve, pressure reducing (KF) | 1 | |
| -9 | 816919-5 | . PACKING, Preformed (KF) | 1 | |
| -10 | 1607284-1 | . NUT, Adjusting (KF) | 1 | |
| -11 | N0-4SS | . JAMNUT (KF) | 1 | |
| -12 | PGO-4AAN | . NUT, Elastic Stop, Anodized AL, | 1 | |
| | | No. 4-48 (KF) | | |
| -13 | WO-4SS | . WASHER, CRES for No. 4 SCR (KF) | 1 | |
| -14 | 1607286-1 | . RETAINER, Spring (KF) | 1 | |
| -15 | 1607506-1 | . SPRING, Helical compression (KF) | 1 | |
| -16 | 1607279-1 | . SHAFT, Cocking (KF) | 1 | |
| -17 | 1607677-1 | . ROLLER (KF) | 2 | |
| -18 | PRSH937-48B | . PIN Hardened CRES 0.0937 X 0.48 (KF) | 1 | |
| -19 | 1219270-13 | . CAP, Shipping (KF) | 1 | |
| -20 | AN822-5D | . ELBOW | 1 | |
| | 1607299-1 | . VALVE ASSEMBLY, Relief | 1 | |
| -21 | 1607282-1 | . . SCREW, Spring adjusting | 1 | |
| -22 | 1607297-1 | . . SPRING, Helical compression | 1 | |
| -23 | 1607298-1 | . . POPPET, Relief valve | 1 | |
| -24 | 1607277-1 | . . HOUSING, Relief valve | 1 | |
| -25 | 721975-1 | . GAGE | 1 | |
| | 1607318-1 | . VALVE ASSEMBLY, Recharge | 1 | |
| | 1607317-1 | . . CAP ASSEMBLY | 1 | |
| -26 | RO-402-1/2SS | . . . SCREW, CRES (4-48 x 5/32) | 1 | |
| -27 | 1603310-3 | . . . CHAIN, Bead | 1 | |
| -28 | 1602678-1 | . . . RING, Connecting | 1 | |
| -29 | 1605561-1 | . . . PLUG, Valve | 1 | |
| -30 | AN805-C3 | . . . NUT, Union | 1 | |
| -31 | 1605569-1 | . . STEM, Valve | 1 | |
| -32 | 1607300-1 | . . FITTING, Valve | 1 | |
| -32A | 9120097-27 | . . FILL VALVE (Note 1) | 1 | |
| -33 | 1607549-1 | . CYLINDER, Oxygen | 1 | |

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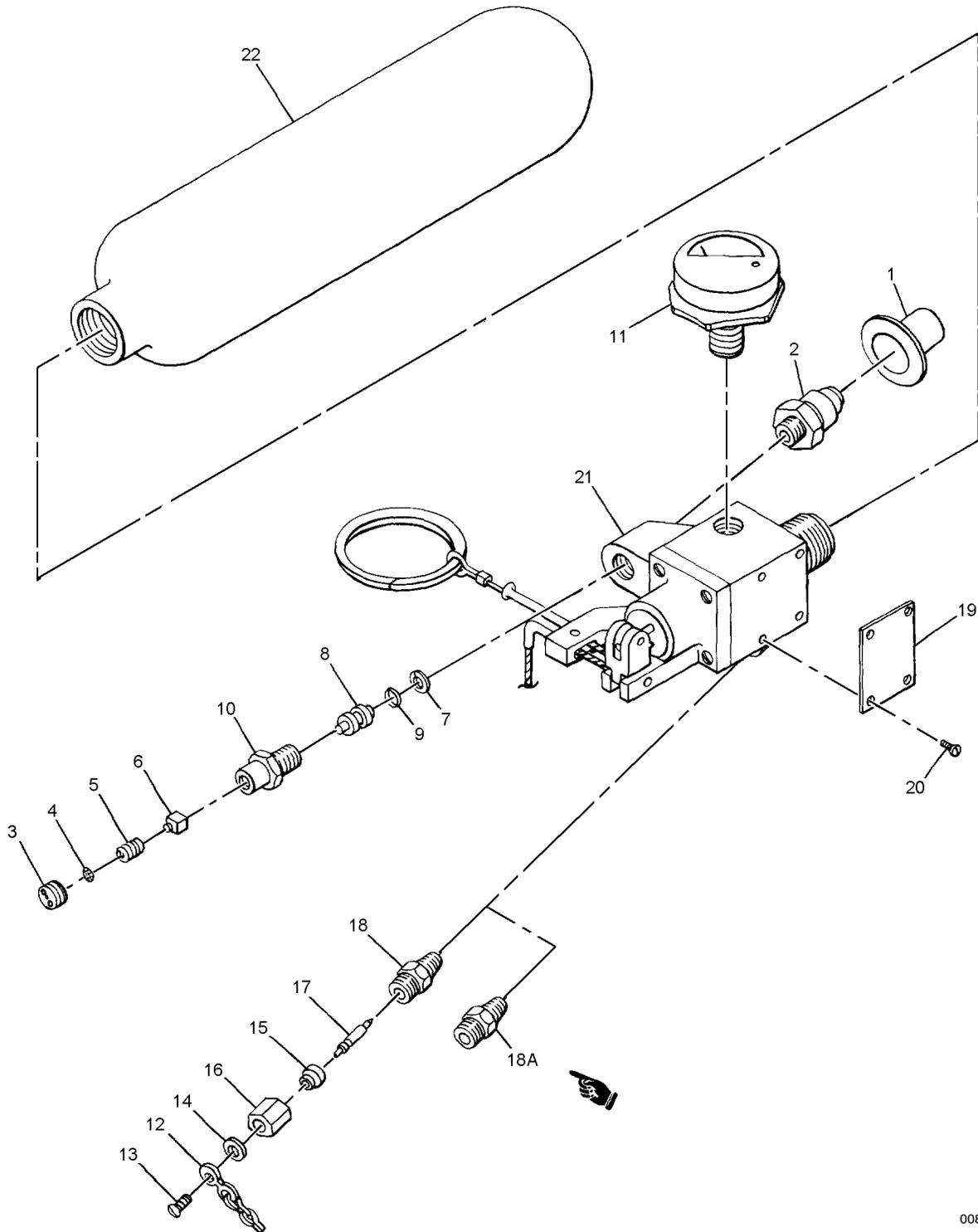
| Figure and Index Number | Part Number | Description 1 2 3 4 5 6 7 | Units Per Assembly | Usable On Code |
|--|-------------|--|--------------------|----------------|
| 8-17-34 | 1607288-1 | . SCREW, Valve retaining (KF) | 1 | |
| -35 | 1607316-1 | . SPRING, Conical compression (KF) | 1 | |
| -36 | 1607278-1 | . VALVE, Inlet (KF) | 1 | |
| -37 | 1607283-1 | . SEAT, Valve (KF) | 1 | |
| -38 | 1602321-28 | . PACKING, Preformed (KF) | 1 | |
| -39 | 1607226-1 | . HOUSING, Pressure reducer | 1 | |
| | 1601909-1 | REPAIR KIT, F, Oxygen system | 1 | |
| Notes: 1. Fill Valve can be used as an alternate to replace Recharge Valve Assembly P/N 1607318-1 or Valve Stem P/N 1605569-1 and Valve Fitting P/N 1607300-1. | | | | |



63-413A

Figure 8-18. Cam and Cable Assembly, Part No. 1607326-1

| Figure and Index Number | Part Number | Description | Units Per Assembly | Usable On Code |
|-------------------------|-------------|--|--------------------|----------------|
| | | 1 2 3 4 5 6 7 | | |
| 8-18 | 1607326-1 | CAM AND CABLE ASSEMBLY | REF | |
| -1 | 1607291-1 | . STOP, Cam (KF) | 1 | |
| -2 | 1211708-7 | . INSERT (KF) | 1 | |
| -3 | 1607289-1 | . CAM RELEASE | 1 | |
| -4 | 1607280-1 | . PLUNGER, Detent (KF) | 1 | |
| -5 | 1607287-1 | . SPRING, Helical compression (KF) | 1 | |
| -6 | 1607341-1 | . RING ASSEMBLY | 1 | |
| -7 | 1607321-1 | . . RING, Connection (KF) | 1 | |
| -8 | 814301-3 | . SLEEVE, Cable splicing (KF) | 1 | |
| -9 | 1607522-1 | . COUPLING (KF) | 1 | |
| -10 | 1607323-1 | . CABLE ASSEMBLY (KF) | 2 | |
| -11 | 1607338-1 | . HOUSING | 1 | |



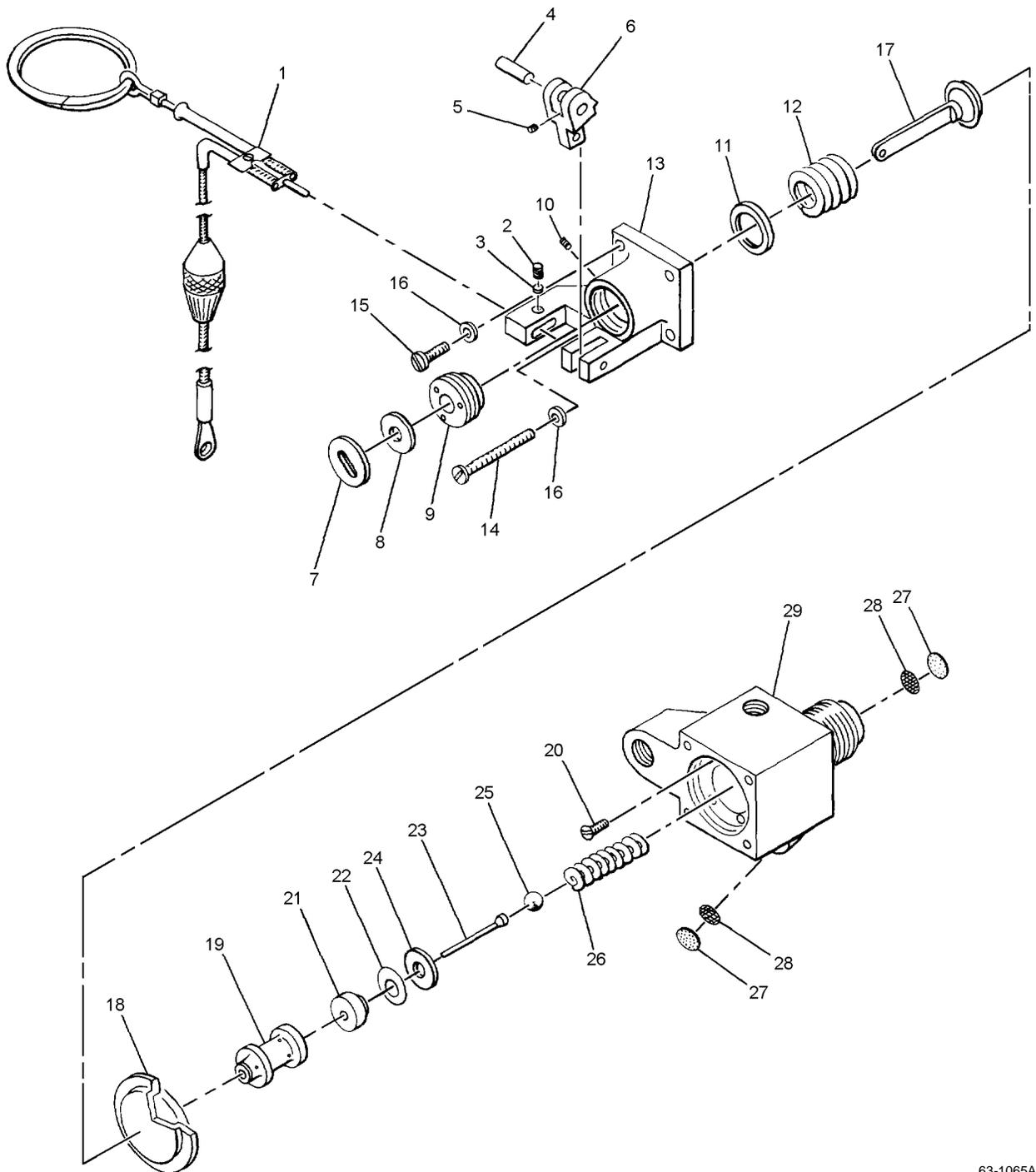
008019

Figure 8-19. Emergency Oxygen System P/N F1513000-1/-5/-7/-9

| Figure and Index Number | Part Number | Description 1 2 3 4 5 6 7 | Units Per Assembly | Usable On Code |
|-------------------------|-------------|---|--------------------|----------------|
| | | | | |
| 8-19 | F1513000-1 | EMERGENCY OXYGEN SYSTEM (03990) | 1 | A |
| | F1513000-5 | EMERGENCY OXYGEN SYSTEM (03990) | 1 | B |
| | F1513000-7 | EMERGENCY OXYGEN SYSTEM (03990) | 1 | C |
| | F1513000-9 | EMERGENCY OXYGEN SYSTEM (03990) | 1 | D |
| -1 | 206 | . CAP, Protective dust and moisture seal (81904) (KD) | 1 | |
| -2 | AN816-5D | . NIPPLE, Tube (KD) | 1 | |
| | F46400-10 | . VALVE ASSEMBLY, Relief | 1 | |
| -3 | F46405-1 | . . SCREW, Spring adjusting (KD) | 1 | |
| -4 | F46409-1 | . . SCREEN, Relief valve (KD) | 1 | |
| -5 | F46408 | . . SPRING (KD) | 1 | |
| -6 | F46407-1 | . . SEAT ASSEMBLY, Relief valve (KD) | 1 | |
| -7 | 5000-25-W | . . RING, Retaining (79136) (KD) | 1 | |
| -8 | F46404-3 | . . INSERT, Relief Valve | 1 | |
| -9 | FS5701-006 | . . PACKING, Preformed | 1 | |
| -10 | F46403-3 | . . BODY, Relief valve | 1 | |
| -11 | F3635585-1 | . GAGE, Emergency oxygen, type L-2 | 1 | |
| | F1263-1 | . VALVE ASSEMBLY, Charging | 1 | |
| | F1375-1 | . . CAP ASSEMBLY, Charging valve | 1 | |
| -12 | F32875-2 | . . . CHAIN (ATTACHING PARTS) | 1 | |
| -13 | AN530C2-4 | . . . SCREW ---*--- | 1 | |
| -14 | F1378-1 | . . . WASHER, Charging valve cap | 1 | |
| -15 | F1377-1 | . . . PLUG, Charging valve cap | 1 | |
| -16 | F1376-1 | . . . NUT, Charging valve cap | 1 | |
| | F2641-1 | . . BODY ASSEMBLY, Charging valve | 1 | |
| -17 | F3635241-1 | . . . CORE, Valve, high pressure air (KD) | 1 | |
| -18 | F1374-1 | . . . BODY, Charging valve | 1 | |
| -18A | 9120097-27 | . . FILL VALVE (Note 1) | 1 | |
| -19 | F1513016-1 | . PLATE, Identification, Emergency Oxygen System | 1 | ABC |
| | F1513016-3 | . PLATE, Identification, Emergency Oxygen System (ATTACHING PARTS) | 1 | D |
| -20 | AN53500-2 | . SCREW ---*--- | 4 | |
| -21 | F1513017-1 | . REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen (See figure 8-20 for BKDN) | 1 | A |
| | F1513017-5 | . REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen (See figure 8-20 for BKDN) | 1 | B |
| | F1513017-7 | . REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen (See figure 8-20 for BKDN) | 1 | C |

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| Figure and Index Number | Part Number | Description | Units Per Assembly | Usable On Code |
|-------------------------|-----------------|---|--------------------|----------------|
| | | 1 2 3 4 5 6 7 | | |
| 8-19 -22 | F1513017-9 | . REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen (See Figure 8-20 for BKDN) | 1 | D |
| | MS26545A2X-0022 | . CYLINDER, Nonshatterable, compressed gas | 1 | |
| | F170184 | REPAIR KIT, Emergency Oxygen System Overhaul Hardware | 1 | A |
| | F170185 | REPAIR KIT, Emergency Oxygen System Overhaul Cure Date | 1 | A |
| | F170364 | REPAIR KIT, Emergency Oxygen System Overhaul Hardware | 1 | BCD |
| | | Notes: 1. Fill Valve can be used as an alternate to replace Charging Valve Body Assembly P/N F2641-1 or Valve Core P/N F3635241-1 and Body P/N F1374-1. | | |



63-1065A

Figure 8-20. Emergency Oxygen Reducer and Actuator Assembly

NAVAIR 13-1-6.3-1

| Figure and Index Number | Part Number | Description | Units Per Assembly | Usable On Code |
|-------------------------|-------------|--|--------------------|----------------|
| | | 1 2 3 4 5 6 7 | | |
| 8-20 | F1513017-1 | REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen System (See figure 8-19 for NHA) | REF | A |
| | F1513017-5 | REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen System (See figure 8-19 for NHA) | REF | B |
| | F1513017-7 | REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen System (See figure 8-19 for NHA) | REF | C |
| | F1513017-9 | REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen System (See figure 8-19 for NHA) | REF | D |
| -1 | F1513012-1 | . ACTUATOR ASSEMBLY, Reducer | 1 | A |
| | F1513012-3 | . ACTUATOR ASSEMBLY, Reducer | 1 | B |
| | F1513012-5 | . ACTUATOR ASSEMBLY, Reducer | 1 | C |
| | F1513012-7 | . ACTUATOR ASSEMBLY, Reducer | 1 | D |
| | | (ATTACHING PARTS) | | |
| -2 | AN565D6H2 | . SCREW (KD) | 1 | A |
| | AN515C4-4 | . SCREW (KD) | 1 | BCD |
| -3 | AN935-4L | . WASHER (KD) | 1 | BCD |
| | | ---*--- | | |
| | F1513005-1 | . REDUCER ASSEMBLY, Off-On Pressure | 1 | A |
| | F1513005-7 | . REDUCER ASSEMBLY, Off-On Pressure | 1 | BC |
| | F1513005-13 | . REDUCER ASSEMBLY, Off-On Pressure | 1 | D |
| -4 | F2321-3 | . . PIN, Control Lever (KD) | 1 | |
| | | (ATTACHING PARTS) | | |
| -5 | AN565D6H2 | . . SCREW (KD) | 1 | |
| | | ---*--- | | |
| -6 | F2070-1 | . . LEVER, Off-On | 1 | |
| -7 | F2073-1 | . . WASHER, Off-On lever (KD) | 1 | |
| | F2073-2 | . . WASHER, Off-On lever (KD) | 1 | |
| | F2073-3 | . . WASHER, Off-On lever (KD) | 1 | |
| -8 | F1774078-1 | . . SPACER, Pressure reducer (KD) | 1 | |
| -9 | F2169-3 | . . NUT, Adjusting | 1 | |
| | | (ATTACHING PARTS) | | |
| -10 | AN565D4H2 | . . SETSCREW (KD) | 1 | |
| | | ---*--- | | |
| -11 | F1542-1 | . . WASHER, Regulator spring (KD) | 1 | |
| -12 | F1569 | . SPRING, Adjusting (KD) | 1 | |
| -13 | F2068-5 | . . HOUSING, Pressure reducer spring | 1 | A |

| Figure and Index Number | Part Number | Description | | | | | | | Units Per Assembly | Usable On Code |
|-------------------------|-------------|-------------------|---|--|---|---|---|---|--------------------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| 8-20 | F2068-7 | . | . | HOUSING, Pressure reducing spring | | | . | . | 1 | BCD |
| | | (ATTACHING PARTS) | | | | | | | | |
| -14 | AN500-6-16 | . | . | SCREW (KD) | | | . | . | 1 | |
| -15 | AN500-6-6 | . | . | SCREW (KD) | | | . | . | 3 | |
| -16 | AN935-6L | . | . | WASHER (KD) | | | . | . | 4 | |
| | | ---*--- | | | | | | | | |
| -17 | F2374-2 | . | . | STEM, Spring | | | . | . | 1 | |
| -18 | F2602-3 | . | . | DIAPHRAGM, Valve, flat | | | . | . | 1 | ABC |
| | F6400033-3 | . | . | DIAPHRAGM, Assembly | | | . | . | 1 | D |
| -19 | F1721-1 | . | . | GUIDE, Valve | | | . | . | 1 | ABC |
| | F1721-5 | . | . | GUIDE, Valve | | | . | . | 1 | D |
| | | (ATTACHING PARTS) | | | | | | | | |
| -20 | AN515C8-4 | . | . | SCREW (KD) | | | . | . | 4 | |
| | | ---*--- | | | | | | | | |
| -21 | F1517-3 | . | . | SEAT, Valve (KD) | | | . | . | 1 | ABC |
| | F4932062-3 | . | . | SEAT, Valve (KD) | | | . | . | 1 | D |
| -22 | FS5000-7 | . | . | PACKING, Preformed (KD 1) | | | . | . | 1 | ABC |
| | FS5701-012 | . | . | PACKING, Preformed (KD) | | | . | . | 1 | D |
| -23 | F1647-1 | . | . | STEM, Valve (KD) | | | . | . | 1 | D |
| -24 | F4932063-1 | . | . | PLATE (KD) | | | . | . | 1 | D |
| -25 | 216C1-16 | . | . | BALL, Bearing (AAFS) (80049) (KD) | | | . | . | 1 | |
| -26 | F1632 | . | . | SPRING, Off-On valve (KD) | | | . | . | 1 | |
| -27 | F2118-1 | . | . | FILTER, Sintered, stainless steel (KD) | | | . | . | 2 | |
| -28 | F1985 | . | . | SCREEN FILTER (KD) | | | . | . | 6 | |
| -29 | F1513107-1 | . | . | BODY, Off-On pressure reducer | | | . | . | 1 | ABC |
| | F1513107-3 | . | . | BODY, Off-On pressure reducer | | | . | . | 1 | D |

NUMERICAL INDEX

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