

CHAPTER 26

LPU-21C(V)1/P LIFE PRESERVER ASSEMBLY

Section 26-1. Description

26-1. GENERAL.

CAUTION

WARNING

LPU-21C(V)1/P life preserver assemblies shall not be used in aircraft equipped with ejection seats.

26-2. The LPU-21C(V)1/P life preserver assembly is authorized for use by all aircrew personnel wearing compatible flight clothing. It is designed as a constant wear item for use with the SV-2B Survival Vest.

26-3. CONFIGURATION.

WARNING

LPU-21C(V)1/P life preserver assemblies shall not be configured with the FLU-8/P or FLU-8B/P series automatic inflation device.

NOTE

The use of the LPU-21D/P flotation assembly with the LPU-21C/P casing is not authorized.

26-4. LPU-21C(V)1/P is not a procurable item. It is assembled by modifying the Polychloroprene flotation assembly used in the LPU-21C/P life preserver and assembling it into an LPU-21D/P casing assembly. See [paragraph 26-80](#).

Use only Polychloroprene adhesives and Polychloroprene-coated cloth and patches on Polychloroprene-coated LPU-21C(V)1/P life preserver assemblies.

26-5. The LPU-21C(V)1/P Life Preserver weighs four pounds (without survival items). It consists of a casing assembly, flotation assembly, and carbon dioxide (CO₂) inflation assemblies. Two independent flotation chambers constructed of Polychloroprene-coated nylon cloth provide a combined minimum buoyancy of 65 pounds. One chamber consists of the left waist lobe joined by a channel to the right collar lobe. The other chamber is comprised of the right waist lobe joined by a channel to the left collar lobe. The two chambers are sewn together at the center seam flash of the collar lobes. Each chamber is serviced by a CO₂ inflation assembly and an oral inflation valve which are installed in each waist lobe (see [figures 26-1](#) and [26-2](#).)

26-6. The inflation chambers provide an integral protective pocket for the oral inflation valve. The pocket consists of a narrow open-end sleeve extending from the upper seam of each waist lobe bladder ([figure 26-2](#)). When folded at its root toward the oral inflation valve, the sleeve becomes a pocket positioned for insertion of the valve.

26-7. Attached to each waist lobe of the modified flotation assembly is an attachment patch with six uni-directional snap fastener sockets installed. These snap fastener sockets, when mated to six uni-directional snap fastener studs on the casing assembly, secure the waist lobes of the flotation assembly to the casing assembly. The right

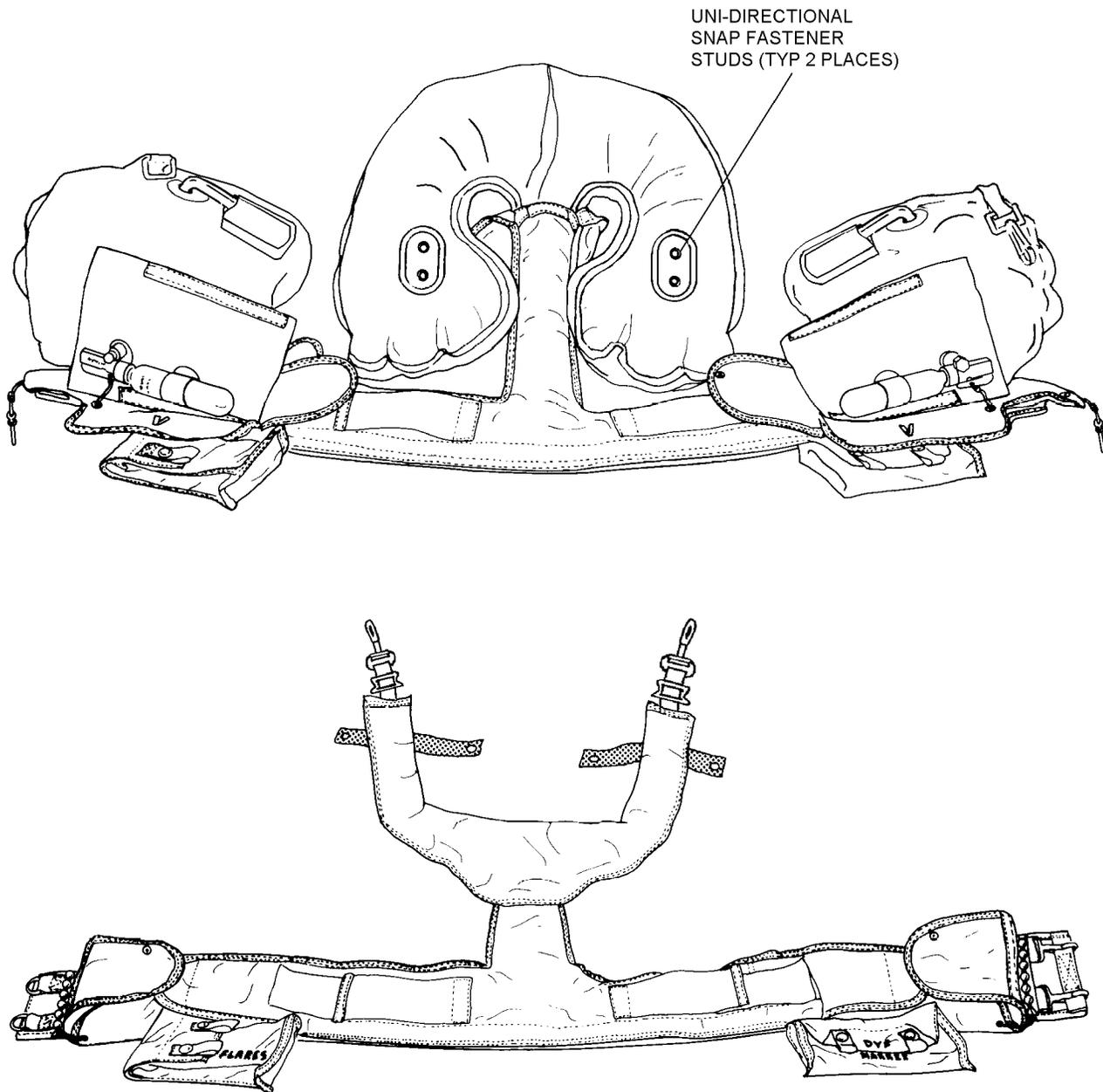


Figure 26-1. LPU-21C(V)1/P Life Preserver Assembly

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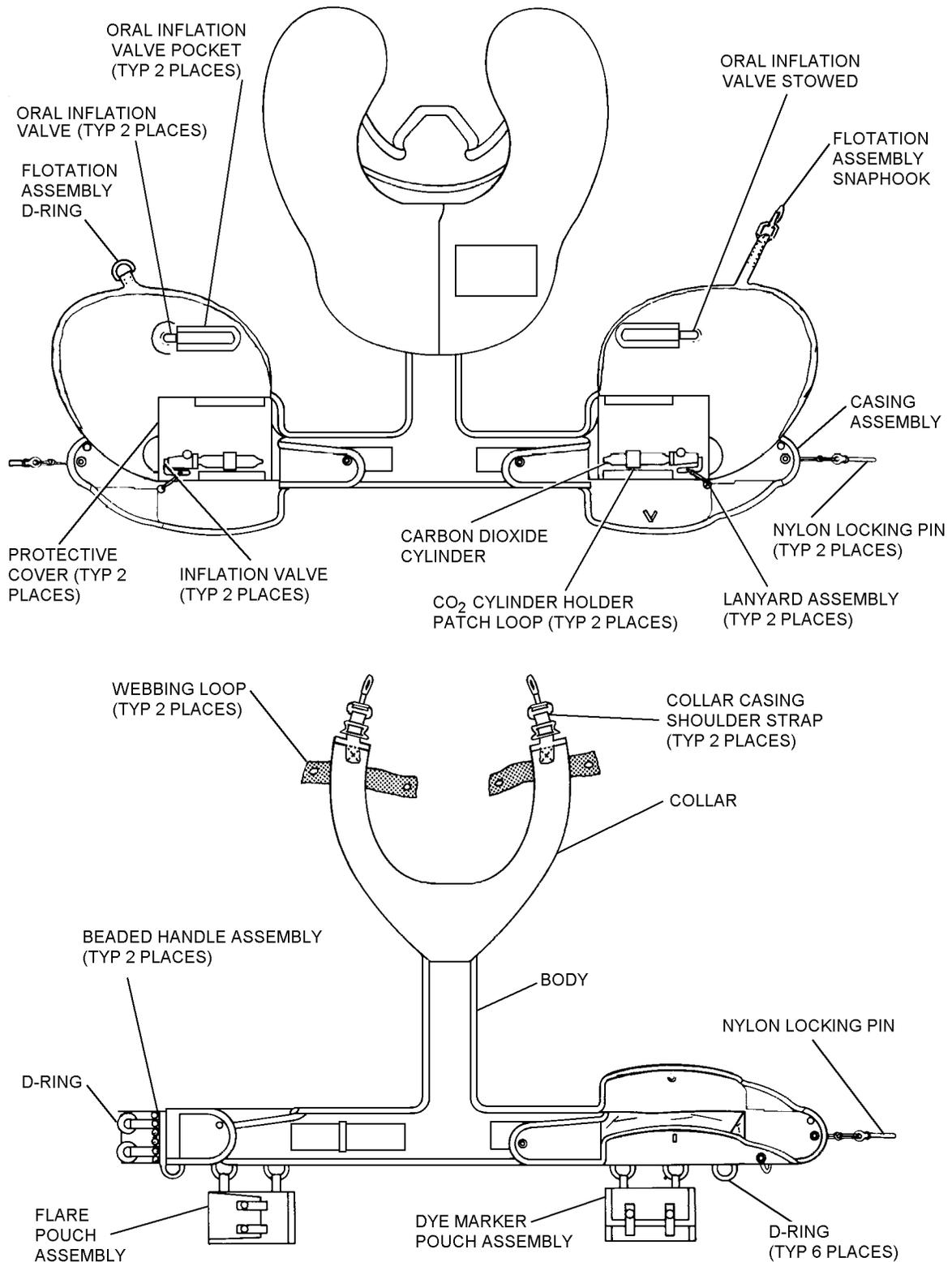


Figure 26-2. LPU-21C(V)1/P Life Preserver Assembly, Parts Nomenclature

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waist lobe is equipped with a snaphook which connects with a D-ring on the left waist lobe to secure the lobes together after inflation.

NOTE

The uni-directional snap fastener socket is installed with the dot on its button oriented to the side of the fastener on which lift must be applied to disengage the socket from the snap fastener stud.

26-8. Two uni-directional snap fastener studs, whose centers are 1 1/4 inches apart, are installed on each collar lobe of the modified flotation assembly. The snap fastener studs connect with two uni-directional snap fastener sockets on the casing collar assembly to secure the flotation collar lobes to the casing collar assembly. The dots on the two buttons of the casing assembly uni-directional snap fastener sockets are oriented to the inside, facing each other. To disengage the sockets from the uni-directional snap fastener studs, insert one finger beneath the edge of the casing fabric between the two snap fasteners and apply lift.

26-9. CASING ASSEMBLY. The casing assembly, which is constructed of fire retardant aramid cloth, provides a protective cover for the flotation assembly. The casing assembly consists of the adjustable casing, belt keeper loops, uni-directional snap fastener sockets on the collar assembly (which mate with snap fastener studs on the collar lobes), uni-directional snap fastener studs on the inside waist portion (which mate with snap fastener sockets on the waist lobes), and the front connector assembly.

26-10. The webbing belt, which was a part of the LPU-21A, -21B and -21C/P has been deleted from the LPU-21C(V)1/P. Webbing belt keeper loops have been retained and provide a means for attaching the survival vest about the wearer's waist. Six D-rings attached to the webbing belt keeper loops provide attach points for the life raft retaining line and other accessories.

26-11. Hook and pile tapes, attached to the outside waist portion of the casing, are used for slack adjustment. In addition, hook and pile tapes, attached about the periphery of the collar casing and the lower edge of the back portion of the casing, are used to enclose the casing assembly about the flotation assembly.

26-12. The front connector assembly secures the casing assembly about the wearer's waist. The front connector assembly consists of two snap-hooks and two D-rings backed by webbing pads to prevent abrasion and discomfort.

26-13. FLOTATION ASSEMBLY. The flotation assembly is constructed of polychloroprene-coated nylon and consists of two independent flotation chambers. The waist lobe of each chamber contains an oral inflation valve and a primary valve stem upon which the inflation assembly is installed. A check valve is installed in the valve stem to prevent back-pressure leakage. There are two snap fastener studs affixed to each collar lobe which mate with uni-directional snap fastener sockets on the casing assembly. Attached to each waist lobe is an attachment patch containing six uni-directional snap fastener sockets which secure the waist lobes to the casing assembly. Each of the six snap fasteners of the attachment patch requires lift from a different direction to disengage flotation lobe from casing assembly. This is a safety factor to prevent separation of the flotation lobe upon impact when entering the water from a height.

NOTE

The uni-directional snap fastener socket is installed with the dot on its button oriented to the side of the fastener on which lift must be applied to disengage the socket from the snap fastener stud.

26-14. INFLATION ASSEMBLY. A carbon dioxide (CO₂) inflation assembly services each of the inflation chambers of the flotation assembly. The inflation assembly consists of the body (inflator) of the assembly, upper and lower pressure-seal gaskets, and a cap nut which secures the inflator to the valve stem installed in the waist lobe and serves as a cap for the valve stem. The assembly also includes a 35 gram Type III carbon dioxide cylinder which is threaded, with an O-ring, into the inflator body. An inflation lanyard attached to the actuating lever of the inflation assembly connects with the beaded inflation handle and the nylon locking pin of the casing assembly.

26-15. APPLICATION.

26-16. The LPU-21C(V)1/P life preserver is authorized for use only by aircrew personnel in aircraft without ejection seat systems. It was designed for use as a constant wear item with the SV-2 survival vest system by aircrew personnel wearing compatible flight clothing.

26-17. FUNCTION.

NOTE

NOTE

Although the beaded inflation handle provides a multidirectional capability for initiating inflation of the life preserver, only the most effective and commonly used method is discussed here.

After each functional inflation, the CO₂ cylinder and seat seal gasket must be replaced with a charged CO₂ cylinder and a new seat seal gasket.

The casing must be manually opened and the flotation assembly unfolded prior to inflating a preserver through the oral inflation valve.

26-18. Inflation of the LPU-21C(V)/P life preserver is initiated by pulling both beaded inflation handles in a natural, slightly down and straight out direction away from the body. The resulting action removes the nylon locking pins, which secure the casing assembly about the waist lobes, and actuates the inflation assembly. As the flotation assembly inflates, the hook and pile tapes securing the casing assembly about the collar separate to free the collar lobes. After inflation, the flotation assembly D-ring and snap-hook on the waist lobes must then be connected by the wearer.

26-19. In an emergency situation, the oral inflation valves may be used to top-off an inflated preserver, maintain inflation of a leaky preserver or inflate a chamber if an inflation assembly malfunctions. The oral inflation valves are also used to inflate a preserver with air during an inspection test and to evacuate a preserver in preparation for packing.

26-20. Survival item pouches are attached to the life preserver casing. The dye markers and signal flares are not initially supplied and must be individually requisitioned. Refer to [table 26-1](#) and see [figures 26-1](#) and [26-2](#).

Table 26-1. LPU-21C(V)1/P Survival Items

Description	Quantity Required	Reference Number	NIIN	SM&R Code
Dye Marker (Note 1)	2	MIL-S-17980	00-270-9986	PAOZZ
Signal, Smoke and Illumination, Marine MK-124 MOD 0 (Note 1)	2	—	01-030-8330	PA--Z

Notes: 1. Optional equipment at the discretion of the Squadron Commander.

Section 26-2. Modification

26-21. GENERAL.

26-22. There are no authorized modifications to the LPU-21C(V)1/P life preserver at this time.

26-23. Common repairs and fabrication instructions to maintain serviceability are listed in [table 26-2](#).

Table 26-2. LPU-21C(V)1/P Common Repairs and Fabrications

Description of Repair or Fabrication	Paragraph Number
Determination of Repairability	26-58
Casing Repair Procedures	26-60
Casing Grommet Replacement Procedures	26-61
Cementing Life Preservers	26-62
Patching Life Preservers	26-63
Replacement of Oral Inflation Valve	26-65
Recementing of Bladder Fin Seams	26-66
Fabrication of Slip-On Pockets For Life Preserver Hardware	26-67
Replacement of Flare and Dye Marker Pouch Snaphooks	26-68
Flare Pouch Repair	26-69
Disassembly of the Life Preserver	26-70
Reassembly of Life Preserver	26-71
Replacement of Beaded Inflation Handle Assembly	26-72
Repair of Corroded CO ₂ Inflation Valve	26-73
Replacement of Top and Bottom Gaskets	26-74
Replacement of Check Valve Assembly	26-75
Fabrication of Protective Cover Assembly	26-76
Addition of Collar Lobe Webbing Loops	26-77
Fabrication and Installation of Locking Pin Cover	26-78
Replacement of Collar Lobe Snap Fasteners and Webbing	26-79
Fabrication of LPU-21C(V)1/P Life Preservers	26-80
Fabrication and Installation of Waist Lobe Attachment Patch	26-81
Fabrication and Installation of Collar Lobe Snap Fastener Studs	26-84

Section 26-3. Maintenance

26-24. GENERAL.

26-25. This section contains information on inspection, disassembly, repair/replacement, testing, and re-assembly of the LPU-21C(V)1/P life preserver.

26-26. INSPECTION.

26-27. All life preservers shall be subjected to Preflight, Special and Calendar/Phase Inspections.

26-28. The Preflight Inspection shall be performed on life preservers prior to each flight by the aircrewmember to whom the life preserver is assigned. The Preflight Inspection shall be performed on life preservers installed in aircraft prior to each flight by assigned aircrewmembers.

26-29. The Special Inspection shall be performed on all aircraft installed life preservers at intervals not to exceed 30 days. The inspection shall be performed at the organizational level of maintenance by personnel assigned to the Aviator's Equipment Branch.

26-30. Upon completion of the inspection, make necessary entries on the appropriate form in accordance with OPNAVINST 4790.2 Series. The 30-Day Special Inspection may be recorded on a separate history card from the history card recording Calendar/Phase Inspections, functional checks, and modifications.

NOTE

The Calendar Inspection interval for preservers assigned selected air reserve aircrewmembers has been extended to 180 days vice 90 days, providing preservers are stowed under controlled conditions.

26-31. The Calendar/Phase Inspection shall be performed on all life preservers prior to placing in service. The inspection cycle thereafter shall be as follows: personal issue life preservers shall be inspected once every 90 days. Aircraft-installed life preserver inspection shall coincide with the inspection cycle of the aircraft in which installed. See applicable Planned Maintenance System (PMS) publications for specific intervals. In no case shall the interval exceed 231 days. Unless operational requirements demand otherwise, the life preserver Calendar/Phase Inspection shall be performed by the intermediate level of maintenance or above. The functional test shall be performed prior to placing in service, every fourth inspection cycle thereafter, and whenever an inflation assembly is replaced. The leakage test shall be performed during every inspection cycle. If inspection indicates damage, complete appropriate forms in accordance with OPNAVINST 4790.2 Series and forward entire assembly to supply. Refer to [paragraph 26-58](#) for determination of repairability.

26-32. QUALITY ASSURANCE. Properly detailed procedures present a logical sequence for the inspection process. The more critical procedures are underlined to designate steps which require a Quality Assurance inspection to assure performance of specific requirements. After the underlined step is performed by the Aircrew Survival Equipmentman, the procedure shall be verified before the next step is performed. This verification shall be performed by a Collateral Duty Inspector or Quality Assurance Representative (CDI, CDQAR, or QAR). Work Center supervisors are primarily responsible for quality assurance within their centers. OPNAVINST 4790.2 Series permits supervisors to nominate their more experienced personnel to serve as quality assurance inspectors. Nominated personnel shall be screened and examined by the Quality Assurance Officer prior to their designation as Quality Assurance Inspectors or Quality Assurance Representatives by the Commanding Officer. Under no circumstances shall an Aircrew Survival Equipmentman perform his own quality assurance inspection.

26-33. PREFLIGHT/SPECIAL INSPECTION. To perform a Preflight/Special Inspection, proceed as follows:

WARNING

Ensure that the beaded inflation handles are readily accessible. Beaded inflation handles shall be secured with four snap fasteners to the life preserver end flap.

CAUTION

Do not open any sealed or safety-wired/ safety-tied portions of preserver for Pre-flight/Special Inspection.

1. Inspect exposed metal parts for corrosion and damage.
2. Inspect for presence, security of attachment and, if applicable, operation of survival items.
3. Inspect casing fabric for cuts, tears, abrasions, security of stitching, and other damage.
4. Ensure beaded inflation handles are secured to snap fasteners. Inspect safety-ties on beaded inflation handles. The beaded inflation handle safety-ties may be replaced without removing the life preserver from service.
5. Inspect safety-ties on locking pins.
6. Inspect uni-directional snap fasteners securing flotation assembly to casing assembly for presence, security of attachment, corrosion, and ease of operation.
7. Inspect hook and pile tape closure at collar for separation; fasten as necessary.
8. Adjust and don preserver to ensure proper fit.
9. If any discrepancy is noted, the preserver shall be removed from service and repaired in accordance with procedures in this volume.

26-34. ACCEPTANCE/CALENDAR/PHASE INSPECTION. The Acceptance/Calendar/Phase Inspection consists of the following tasks:

1. Beaded Inflation Handle Inspection
2. Case, Container/Pouch Inspection
3. Functional Test (every fourth inspection cycle)
4. Visual Inspection

5. Life Preserver Configuration
6. General Inspection
7. Markings Inspection
8. Survival Items Inspection
9. Inflation Assembly Inspection
10. Beaded Inflation Handle Pull Test
11. Leakage Test
12. Records Updating
13. Repacking

26-35. BEADED INFLATION HANDLE INSPECTION. Inspect beaded inflation handle for the following:

1. Attachment of inflation lanyard to beaded handle.
2. Attachment of locking pin lanyard to beaded handle. Overhand knot on locking pin lanyard shall be within 3/4 inch from eye of pin.
3. Corrosion on snap fasteners and ease of operation.
4. Cuts, tears, deterioration, abrasion, stains, and general cleanliness of fabric.
5. Presence of safety tie on beaded inflation handle.

26-36. CASE, CONTAINER/POUCH INSPECTION. To inspect cases, containers, and/or pouches, proceed as follows:

1. Inspect fabric for cuts, tears, deterioration, abrasion, stains, and general cleanliness.
2. Inspect seams for proper adhesion or stitching.
3. Inspect straps and loops for security and wear.
4. Inspect any other parts for wear, damage, and security.

NOTE

Life preservers missing the D-rings used to attach dye marker and flare pouches shall be considered serviceable provided the aircrewmember to whom it is issued does not desire to utilize the pouches.

5. All hardware for security of attachment, corrosion, damage, wear and, if applicable, ease of operation.

6. Inspect uni-directional snap fastener assemblies for presence, security of attachment, proper orientation, ease of operation, corrosion, and wear.

NOTE

All uni-directional snap fasteners shall be installed with the dot on the button of the snap fastener socket positioned on the side of the snap fastener to which lift must be applied to disengage the socket from the snap fastener stud.

All snap fasteners on the attachment patch of each flotation lobe shall be installed with the dot on each socket button positioned nearest to, and pointing toward, the center point of the attachment patch.

7. If any discrepancies are found, the case, container, or pouch shall be repaired or removed from service as deemed appropriate by the inspection activity.

26-37. FUNCTIONAL TEST. To perform a functional test, proceed as follows:



Ensure area surrounding preserver is free of foreign objects.

1. Completely open preserver casing prior to conducting functional test. Both release pins shall be removed from their respective loops, the collar hook and pile tape fasteners shall be separated, and the waist and collar lobes shall be completely unfolded and laid out flat.

2. Actuate inflation assemblies.

3. The preserver shall fully inflate to design shape, without evidence of restriction, in less than 30 seconds.

4. If preserver does not properly inflate, determine cause. Ensure stem and valve are clean and free of foreign matter.

5. If correction is made, the preserver shall be functionally tested again.

6. Deflate preserver in accordance with [paragraph 26-38](#) to remove all CO₂.

26-38. DEFLATION. To deflate a life preserver, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Pump, Rotary Vacuum (or equivalent)	NIIN 00-052-5015 (90567)
As Required	Hose, 3/8- or 1/2-inch Inside Diameter, Rubber	—

1. Attach one end of rubber hose to vacuum pump.

2. Deflate through oral inflation valves. Unlock oral inflation valve, hold in open position, and hold vacuum pump hose against end of oral inflation valve. When compartment is collapsed, release oral inflation valve. Screw lock closed.

26-39. VISUAL INSPECTION. Prior to visually inspecting a life preserver assembly, the life preserver shall be inflated with air to 1.0 psig.



Remove all carbon dioxide cylinders prior to inflating life preserver with air.

NOTE

If suitable air source is not available, water-pumped nitrogen (FED SPEC BB-N-411) may be substituted.

26-40. LIFE PRESERVER CONFIGURATION. The life preserver shall be updated by comparing it to the configuration illustrations, [figures 26-1 and 26-2](#), and [section 26-4](#).

26-41. GENERAL INSPECTION. Examine life preservers for the following:

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NOTE

Refer to the referenced paragraph number at end of inspection for repairs.

1. Preserver fabric for cuts, tears, punctures, deterioration and abrasion. Refer to paragraph 26-60 for repair instructions.

2. Flotation assembly seams for proper adhesion. Refer to paragraph 26-66 for instructions.

3. Valve inlet stems for security.

4. Oral inflation valve(s) for cracks, security, ease of operation, and corrosion.

5. Patches for proper adhesion and wear. Refer to paragraph 26-63 for repair instructions.

6. Any other parts for wear or other damage.

7. All hardware for security of attachment, corrosion, damage, wear and, if applicable, ease of operation.

8. Preservers for stains, dirt, and general cleanliness. Refer to paragraph 26-50 for cleaning instructions.

9. Cross threading and/or loose manifold nuts.

26-42. MARKINGS INSPECTION. To inspect and restore marking, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Ink, Marking, Laundry, Black	SPE-92 NIIN 00-161-4229
	-or-	
As Required	Ink, Drawing, Waterproof, Yellow	A-A-59291 NIIN 00-634-6583

1. Compare markings on preserver to those listed in table 26-3.

NOTE

A LPU-21C/P Flotation assembly which has been installed in an LPU-21D/P casing is designated an LPU-21C(V)1/P life preserver assembly. See paragraph 26-80.

2. Restore any faded markings.

3. Deleted.

4. Correct any markings which do not agree with table 26-3. Paint out old markings and enter new marking as close to proper position as possible.

26-43. SURVIVAL ITEMS INSPECTION. To inspect survival items, proceed as follows:

1. Inventory items by checking items against table 26-1. Replace any missing or unsatisfactory item.

NOTE

NAVAIR 13-1-6.5, Rescue and Survival Equipment contains detailed information on the inspection of survival items.

2. Inspect all items for damage, spent contents and expired service life. Replace as necessary.

3. Operate items which are not intended for one-time use. Replace as necessary.

26-44. INFLATION ASSEMBLY INSPECTION. To inspect life preserver inflation assemblies, proceed as follows:

1. Loosen CO₂ cylinder locking screws, if present, and remove CO₂ cylinders from valve assembly.

2. Examine inflation device, actuating lever and lanyard, and locking pins for fraying, corrosion, stripped threads, and other damage.

3. If required, remove any sharp edges from valve with a fine round file.

4. Operate actuating lever several times. Ensure that lever moves freely and ensure that piercing pin moves properly inside valve body. Inspect point of piercing pin for serviceability. If point is flat, rounded, dull, or otherwise worn or damaged, replace inflation assembly.

Table 26-3. LPU-21C(V)1/P Life Preserver Markings

Marking	Location	Letter Height
LPU-21C(V)1/P	Outside surface of collar delivery tube case	Optional
CASING, LIFE PRESERVER, LPU-21C(V)1/P PART NO. CONTRACT NO. [applicable number] MANUFACTURER [applicable number] DATE OF MANUFACTURE [month and year] SERIAL NO. [applicable number]	Center of casing waist section (inside)	5/16 inch 3/16 inch
DYE MARKER	Pouch (right side)	1/2 inch
FLARES	Pouch (left side)	1/2 inch
Notes: 1. Replacement markings shall be stamped or stenciled using waterproof black ink.		

NOTE

Each time inflation assembly gaskets or inflation assembly is removed and replaced for any reason, a functional test shall be conducted. Refer to [paragraph 26-37](#). Use new gaskets when replacing device.

5. If any discrepancy is noted in device that is not repairable in accordance with [paragraph 26-73](#), remove assembly and install a new inflation device.

6. If CO₂ cylinder locking screws are installed, remove them.

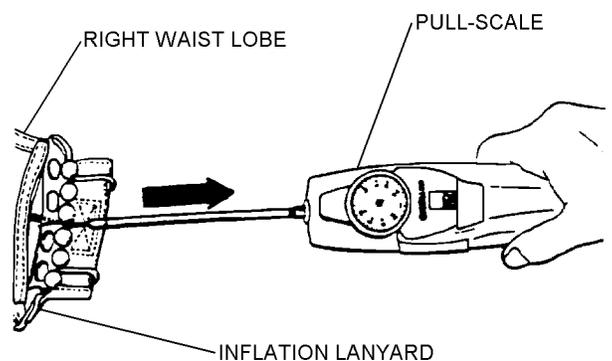
26-45. BEADED INFLATION HANDLE PULL TEST. To perform the inflation lanyard pull test, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Gage, Dial, Push/Pull, 0 to 50 lb	DPPH50 (CAGE 11710) or equivalent NIIN 00-473-0108

1. Ensure that CO₂ cylinder has been removed. Actuate the inflator assembly. All snap fasteners on beaded inflation handle must be fully engaged.

2. Attach gage to webbing between third and fourth bead on inflation handle.



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3. Hold inflator steady. Slowly exert a 25-pound straight pull on webbing. All snap fasteners should release at or before 25 pounds.

4. If all snap fasteners do not release at or before the 25 pound limit, inspect the male and female snap fasteners for damage. Replace the entire beaded inflation handle if required and repeat [steps 1 through 4](#).

5. If the snap fasteners release properly, leave the pull scale attached, add an additional 25 pound force to check the security of the beaded handle attachment to the inflation lanyard. Examine inflation lanyard for frays, ruptures, thin spots, split casing, and security of stitches and knots. If unsatisfactory, replace the entire beaded inflation handle. Refer to [paragraph 26-72](#).

26-46. LEAKAGE TEST. All life preservers shall be subjected to a leakage test each Calendar/Phase Inspection. To perform a leakage test proceed in accordance with [paragraph 26-48](#).

26-47. Test Fixture. A suggested test fixture, consisting of a three-way valve, pressure gage, and adapters for compartments being tested, is shown in [Chapter 3](#). Test fixtures must be fabricated to meet the requirements of the schematic shown in [figure 26-3](#).

26-48. Test Procedure. To test life preservers, using test fixture shown in [Chapter 3](#), proceed as follows:

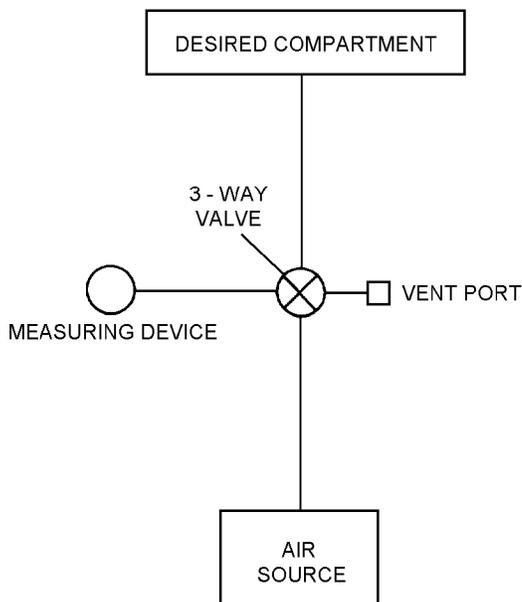


Figure 26-3. Test Fixture Schematic

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CAUTION

Ensure test area is free of foreign objects.

1. Ensure all carbon dioxide has been removed from any preserver which has been functionally tested.

CAUTION

If 3-way valve is not used, measuring device valve must be closed when air feed valve is open.

Damage may occur to oral inflation valve if air supply pressure entering the life preserver exceeds ten (10) psi during this test.

NOTE

If a suitable air source is not available, water-pumped nitrogen (BB-N-411) may be substituted.

2. Unlock oral inflation valve and insert into rubber hose. Rotate valve to air supply position and inflate chamber. Alternately position valve between measuring device, vent and air supply until proper pressure of 2.0 psig is attained in both chambers. ■

3. The air supply shall be securely shut off and after a minimum of 15 minutes, the pressures shall be readjusted, if necessary, to the leakage test pressures. Record time.

4. Disconnect air supply and check for leaks. Ensure all valves are closed.

5. Record temperature and barometric pressure.

6. After a minimum of 4 hours after completing [step 3](#), record test pressure of both chambers. Test pressure shall not decrease to less than 1.6 psig for a life preserver chamber, from a maximum test pressure of 2.0 psig.

7. Record temperature and barometric pressure and correct test pressure for any changes in temperature and barometric pressure. Refer to [tables 26-4 and 26-5](#).

EXAMPLE

UNCORRECTED TEST READING 1.70 PSI

	TEMP.	BARO.
START	75° F	29.90 IN. Hg
END	70° F	29.70 IN. Hg
DIFFERENCE	- 5° F	-0.20
CORRECTION	+0.155	-0.098

TEMP. CORRECTION	+ 0.155
+ BARO. CORRECTION	- 0.098
CORRECTION	+ 0.057

UNCORRECTED READING	1.700 PSI
+ CORRECTION	+ 0.057
CORRECTED READING	1.757 PSI

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Step 7 - Para 26-48

Table 26-4. Temperature Conversion Chart

Temperature Difference (°F)	Correction (psig)
1	0.031
2	0.062
3	0.093
4	0.124
5	0.155
6	0.186
7	0.217
8	0.248
9	0.279
10	0.310

Rise in temperature: subtract from gage reading.
Fall in temperature: add to gage reading

8. If pressure of chamber is below 1.6 psig inflate to leakage test pressure and coat with a soap solution to locate leaks. Mark leak areas. Rinse preserver with fresh water, air dry and repair in accordance with [paragraph 26-63](#).

9. Deflate preserver in accordance with [paragraph 26-38](#).

Table 26-5. Barometric Pressure Conversion Chart

Press. Diff. (inHG)	Corr. (psi)								
0.01	0.005	0.16	0.078	0.31	0.152	0.46	0.225	0.61	0.299
0.02	0.010	0.17	0.083	0.32	0.157	0.47	0.230	0.62	0.304
0.03	0.015	0.18	0.088	0.33	0.162	0.48	0.235	0.63	0.309
0.04	0.020	0.19	0.093	0.34	0.167	0.49	0.240	0.64	0.314
0.05	0.025	0.20	0.098	0.35	0.172	0.50	0.245	0.65	0.319
0.06	0.030	0.21	0.103	0.36	0.176	0.51	0.250	0.66	0.323
0.07	0.035	0.22	0.108	0.37	0.181	0.52	0.254	0.67	0.328
0.08	0.040	0.23	0.113	0.38	0.186	0.53	0.260	0.68	0.333
0.09	0.045	0.24	0.118	0.39	0.191	0.54	0.265	0.69	0.338
0.10	0.049	0.25	0.123	0.40	0.196	0.55	0.270	0.70	0.343
0.11	0.054	0.26	0.127	0.41	0.201	0.56	0.275	0.71	0.348
0.12	0.060	0.27	0.132	0.42	0.206	0.57	0.279	0.72	0.353
0.13	0.064	0.28	0.137	0.43	0.211	0.58	0.284	0.73	0.358
0.14	0.069	0.29	0.142	0.44	0.216	0.59	0.289	0.74	0.363
0.15	0.073	0.30	0.147	0.45	0.221	0.60	0.294	0.75	0.368

Rise in pressure: add to gage reading.
Fall in pressure: subtract from gage reading.

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10. Ensure that inflation valve lever is cocked. Install CO₂ cylinder in accordance with [paragraph 26-54](#).

26-49. RECORDS UPDATING. Make necessary entries on appropriate form in accordance with OPNAV-INST 4790.2 Series.

26-50. CLEANING AND SERVICING.

26-51. Cleaning and servicing consist of cleaning the life preserver, case, container and/or pouch, installation of the inflation valve protective covers and CO₂ cylinders and, when required, safety wiring of the inflation valve actuating lever.

26-52. CLEANING OF LIFE PRESERVER CASINGS/BLADDERS. To clean life preservers, machine washing is preferred on casings, containers, and pouches. Alternate method is by hand. Remove any survival items and other detachable items and proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Detergent, General Purpose	MIL-D-16791 NIIN 00-282-9699
As Required	Cloth, Lint-Free, Type II	MIL-C-85043 NIIN 00-044-9281
As Required	Talc, Technical	MIL-T-50036A NIIN 01-080-9589

CAUTION

Solvents are not to be used in cleaning life preservers.

1. Prepare solution of detergent (MIL-D-16791) consisting of 1/4 to 1/2 ounce of detergent per gallon of water.

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

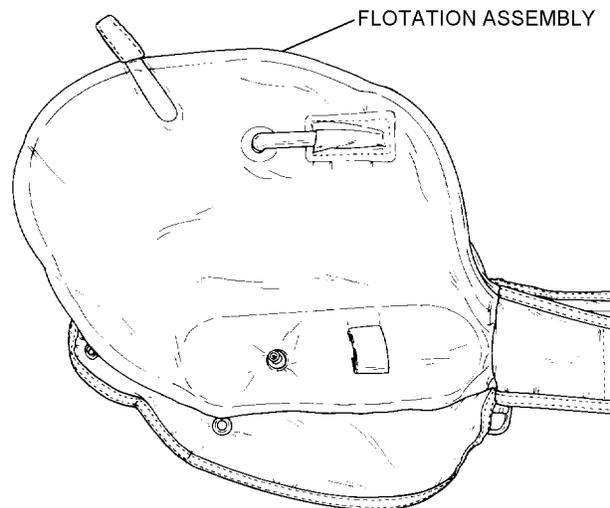
3. Allow solution to remain on surface for several minutes, then agitate with a soft brush or rag.

4. Rinse surface thoroughly with water; wipe with a cloth or sponge. Repeat this application until surface is free from all solution.

5. Dry casing before use and dry bladder with a lint-free cloth (MIL-C-85043). Apply a light coating of talc (MIL-T-50036A).

26-53. INSTALLATION OF INFLATION VALVE PROTECTIVE COVERS. To install inflation valve protective covers, proceed as follows:

1. Open life preserver flotation assembly, then position on a flat surface.



Step 1 - Para 26-53

Z0053001

2. Place inflation valve protective cover upon the life preserver. Ensure that inlet manifold stem hole and CO₂ cylinder holding loop hole are aligned according to [figure 26-4](#).

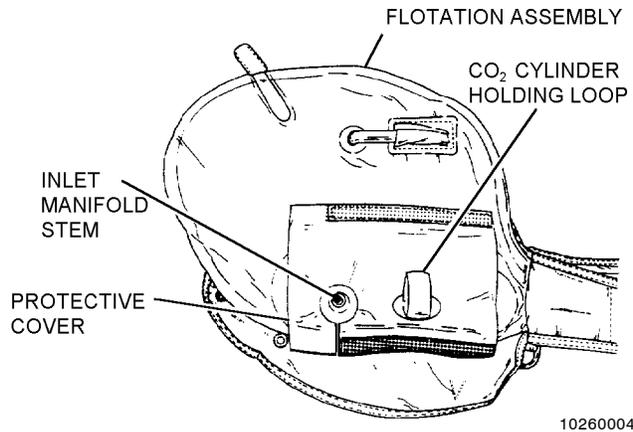


Figure 26-4. Installation of Inflation Valve Protective Cover

26-54. INSTALLATION OF CO₂ CYLINDERS. To install CO₂ cylinders, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Scale (Gram)	A-A-52021-1 NIIN 00-514-4117 or equivalent
1	Die, Cylinder Thread Chaser	1842-008-01 (CAGE 03688) NIIN 00-069-4040

Materials Required

Quantity	Description	Reference Number
1	Valve Stem and Seat Seal Kit (Not EIT)	105AS100-5 (CAGE 30003) NIIN 00-498-6964

Notes: 1. Seat Seal is obtained from Valve Stem and Seat Seal Kit, P/N 105AS100-5, NIIN 00-498-6964, which contains two top, two bottom, and two seat seal gaskets.

NOTE

Weight of charged cylinder will vary according to manufacturer.

1. Weigh a charged cylinder and compare the minimum stamped weight with the scale weight. Discard and replace cylinder if scale weight is 2 grams less than minimum stamped weight.

2. Each inflation assembly consists of an inflator (MIL-I-25370, Type II, NIIN 00-561-0094), and a CO₂ cylinder (MIL-C-25369, Type III, NIIN 01-077-8773).

3. Remove and discard inflator setscrew(s) if installed. Ensure that inflator lever is in a cocked position.



Steel threads on CO₂ cylinder can cause damage to aluminum threads on inflator if cylinder is not carefully threaded. If binding occurs during installation of cylinder, use thread chaser dye on cylinder thread to cut free excessive plating. Reinstall cylinder. If binding still occurs, replace cylinder.

4. To assure a firm cylinder seat, conduct a cylinder thread count. Threaded portion of cylinder neck shall contain a minimum of seven full threads to assure a firm cylinder seat within valve body. Any cylinder found with less than seven full threads shall be discarded. See figure 26-5.

5. After performing functional test, insert a new seat seal gasket. At intermediate inspection intervals, inspect condition of gasket and replace if necessary.

6. Install CO₂ cylinder into inflator body as far as hand twisting will permit.

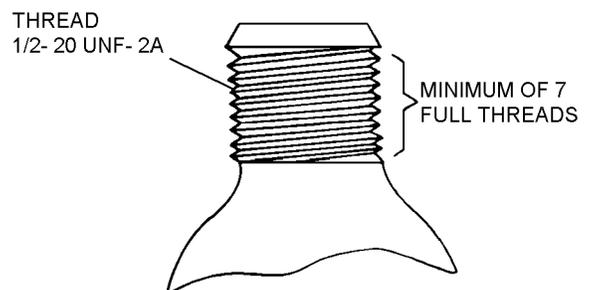


Figure 26-5. Cylinder Thread Count

10260005

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NOTE

When replacing CO₂ cylinder to inflator, ensure that CO₂ cylinder passes through the holding patch loop.

Do not install setscrews in LPU-21C(V)1/P life preservers.

7. Close inflation valve protective covers; then secure with hook and pile tape provided. See [figure 26-4](#).

26-55. REPAIR/REPLACEMENT.

26-56. This section contains instructions for the repair or modification of various components or subassemblies of life preservers to ensure that appropriate items of equipment remain in Ready For Issue (RFI) status. Reference numbers for parts which are defective, corroded or worn and require replacement are included in the applicable paragraph of this section. Other replacement parts, such as carrying cases and personal survival equipment, are listed in the applicable table of each chapter. Procedures are applicable to the type life preserver described in parentheses following the title of the repair or modification, or before a step.

26-57. Replacement of easily removed assembly components such as CO₂ inflation valves and survival items are authorized in addition to repair and replacement procedures documented in this section. The life preserver shall be subjected to a functional and leakage test each time CO₂ inflation valves are removed and replaced for any reason, and each time inflation valve gaskets are replaced.

26-58. DETERMINATION OF REPAIRABILITY.

Patching of holes, cuts, tears or punctures 1-inch square or less are the only repairs authorized in a life preserver bladder.

26-59. Life preserver shall be considered beyond repair for any of the following reasons:

1. Porous fabric areas on flotation bladder.
2. Split or open bladder seams.
3. Leakage test failure resulting from other than repairable cut, tear or puncture.
4. Holes, cuts, tears or punctures within 1-inch of flotation bladder seams.

5. Deterioration of the rubberized fabric caused by oil, grease, or any other foreign substance.

6. Deterioration of the rubberized fabric caused by a heavily mildewed condition.

26-60. CASING REPAIR PROCEDURES. To repair casings, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Thread, Nylon, High Temperature Resistant, Sage Green	MIL-T-83193 NIIN 00-405-2252
	-or-	
As Required	Thread, Nylon, Type II, Size E, Sage Green	V-T-295 NIIN 00-204-3884
As Required	Cloth, Aramid, Non-melting, Type 456, Class I, Sage Green	MIL-C-83429 NIIN 01-147-2064
As Required	Tape, Hook, Type II Sage Green,	MIL-F-21840 NIIN 00-405-2266
As Required	Tape, Pile, Type II Sage Green,	MIL-F-21840 NIIN 00-405-2263

1. Minor holes, rips, tears, or abrasions in casing assembly may be repaired if they do not exceed 2 inches.

2. Repair or replace loose or damaged hook and pile tape as required.

3. Remove bladder in areas being repaired.

4. For all repairs plus loose or broken stitching use 6 to 8 stitches per inch and back stitch one half inch.

5. Casing assembly worn beyond economical repair shall be discarded.

26-61. CASING GROMMET REPLACEMENT PROCEDURES. To replace casing grommet, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Punch, Cutting, 3/16"	3GGG-P-833 NIIN 00-180-0941
1	Pencil, Solder	W-S-570 NIIN 00-204-3855

Materials Required

Quantity	Description	Reference Number
1"	Tape, Nylon, Sage Green, 1" Wide	MIL-T-5038 NIIN 00-753-6144
	-or-	
1 1/2" X 1 1/2"	Cloth, Aramid, Sage Green, Type 456, Class I	MIL-C-83429 NIIN 01-147-2064
2	Grommet, Brass, Size 00	MS20230B20 NIIN 00-291-0302

1. Remove bladder in areas being repaired.
2. Remove loose grommet.
3. Reinforce worn grommet hole in casing by using either nylon tape or aramid cloth.

- a. Prepare reinforcing material.

(1) Cut and sear edges of a 1" piece of nylon tape

or

(2) Cut a 1 1/2" X 1 1/2" piece of aramid cloth and fold under 1/4" on all edges.

b. Sew reinforcing material to outside of casing, centered where possible over original grommet location. Use a cross boxstitch with 6 to 8 stitches per inch, 1/8 inch from edge.

4. Install new grommet.

a. Locate original grommet hole. Cut hole in reinforcing material using 3/16" cutting punch.

b. (For nylon tape only.) Carefully sear hole to prevent fraying using solder pencil.

c. Install grommet and washer using 00 grommet setter and base.

26-62. CEMENTING LIFE PRESERVERS. All cementing of life preservers shall be performed as follows:

NOTE

Toluene shall be the primary solvent used in the fabrication or repair of this assembly. MEK may be used if toluene is not available. Always use sparingly and wipe up excess solvents; do not allow to dry by evaporation.

Support Equipment Required

Quantity	Description	Reference Number
1	Roller, Wooden	GGG-R-00620 NIIN 00-243-9401

Materials Required

Quantity	Description	Reference Number
1	Brush, Disposable	NIIN 00-514-2417
As Required	Toluene	TT-T-548 NIIN 00-281-2002
	-or-	
As Required	Methyl Ethyl Ketone (MEK)	TT-M-261 NIIN 00-281-2762
As Required	Cement, Polychloroprene	MIL-A-5540 NIIN 00-142-9913
As Required	Talc, Technical	MIL-T-50036A NIIN 01-089-9589

WARNING

Do not use toluene or MEK near open flame, heat or electrical sparks. Avoid prolonged contact with skin or breathing of fumes. Use only in a well ventilated area.

CAUTION

Use only Polychloroprene adhesives and Polychloroprene-coated cloth and patches on Polychloroprene-coated LPU-21C(V)1/P life preserver assemblies.

NOTE

Toluene or MEK must be applied vigorously to life preserver material over three years old in order to reactivate the material prior to cementing. Pigment from the material coloring staining a cloth rubbed over the treated surface will indicate the material has been reactivated. Cement shall be applied immediately after the surface has dried.

1. Clean both surfaces to be cemented with four applications of toluene or MEK. Apply toluene or MEK with back-and-forth strokes on the first and third applications, and one-way strokes on the second and fourth applications. Allow area to dry between applications.

CAUTION

The effective active period of adhesive mixture composed of polychloroprene and an accelerator is eight (8) hours. Do not use mixture if older than eight hours.

2. Prepare only enough mixture for 8 hours. Dispose of any remaining mixture.

3. Using a disposable brush, apply cement to completely cover surfaces to be cemented. Use long, one direction strokes and complete each surface before cement becomes tacky as the brush may pull tacky cement from the surface. Allow to dry for 10 minutes.

4. Apply a second coat of cement as in [step 3](#). Use brush strokes perpendicular to the original direction.

5. When second coat of cement has become tacky, place pieces together. If cemented area has a cut or tear, butt edges of damage before applying patch. Roll out bubbles with a wooden roller.

6. Allow cement to cure a minimum of 48 hours.

7. Dust area with talc (MIL-T-50036A).

26-63. PATCHING LIFE PRESERVERS. Life preservers are not repairable if there are holes, cuts, tears, or punctures over one-inch square. Patching of life preservers shall be performed as follows:

CAUTION

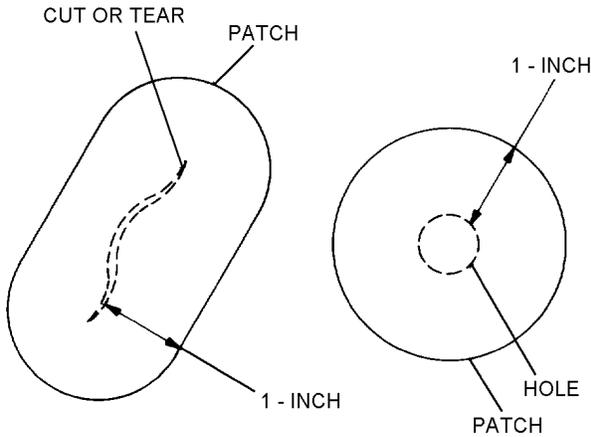
Use only Polychloroprene adhesives and Polychloroprene-coated cloth and patches on Polychloroprene-coated LPU-21C(V)1/P life preserver assemblies.

Materials Required		
Quantity	Description	Reference Number
As Required	Cloth, Nylon, Polychloroprene-coated, Type I, Sage Green	MIL-C-19002 NIIN 00-935-1759

NOTE

Select patch color as near as possible to color of life preserver being repaired.

1. Cut a rounded patch 1 inch larger than damage on all sides.



Step 1 - Para 26-63

Z0063001

2. Center patch over damage and trace an outline of patch on fabric.
3. Cement patch to damaged area in accordance with [paragraph 26-62](#).
4. Dust area with talc (MIL-T-50036A).
5. Perform a leakage test.

26-64. INSPECTION RECORD PATCH.

NOTE

The 28th In-Service Management Panel meeting for Aviation Life Support Systems rescinded the requirement for the packer to sign the Inspection Record Patch on life preservers. The requirement for all other documentation remains unchanged. The reason for this change is that most history patches are unreadable and the packer's and inspector's names are documented on Aviation Crew Systems Records.

- 26-65. REPLACEMENT OF ORAL INFLATION VALVE.** To replace the oral inflation valve, proceed as follows:

Figure 26-6 Deleted.

NOTE

Replacement of oral inflation valves can only be obtained through salvage of BCM'ed or surveyed inflatable survival equipment.



Only toluene or MEK shall be used to clean oral inflation valve and tube. Only Polychloroprene cement (MIL-A-5540, NIIN 00-142-9913) shall be used to cement oral inflation valve into oral inflation tube.

Materials Required

Quantity	Description	Reference Number
1	Valve, Oral Inflation	—
As Required	Cement, Polychloroprene	MIL-A-5540 NIIN 00-142-9913
As Required	Brush, Disposable	NIIN 00-514-2417
As Required	Toluene	TT-T-548 NIIN 00-281-2002
	-or-	
	Methyl Ethyl Ketone (MEK)	TT-M-261 NIIN 00-281-2762

1. Carefully cut through metal clamp securing oral inflation valve to oral inflation tube and remove metal band and oral inflation valve.

2. If the tip of the oral inflation tube was damaged during removal of valve, trim off damaged section.

3. Clean both surfaces to be cemented with toluene or MEK. Allow areas to dry.

4. Using a small disposable brush, carefully apply a small amount of Polychloroprene cement to the surfaces of the tube and the valve which are to be cemented together.

5. Immediately place oral inflation valve into oral inflation tube. Oral inflation valve should be inserted up to valve shoulder. Inspect for proper application/cement.

6. Tightly wrap the cemented portion of the oral inflation tube with cord or wire and allow to cure for 48 hours before removing wrap.

7. Perform leakage test in accordance with [paragraph 26-46](#).

26-66. RECEMENTING OF BLADDER FIN SEAMS. This repair shall be performed only a flotation bladder does not leak, that is, if only outer seam around bladder is split or separating. To recement an open fin seam proceed as follows:

1. If fin seam is not leaking, recement open material surrounding flotation bladder in accordance with [paragraph 26-62](#).

2. Perform a leakage test in accordance with [paragraph 26-46](#).

NOTE

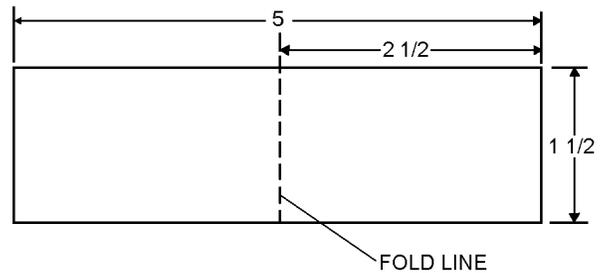
If bladder exhibits leakage from seam, bladder cell has ruptured. Dispose of life preserver after usable parts have been salvaged.

26-67. FABRICATION OF SLIP-ON POCKETS FOR LIFE PRESERVER HARDWARE. To fabricate slip-on pockets life preserver hardware, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cloth, Nylon, Polychloroprene-coated, Type I	MIL-C-19002 NIIN 00-935-1759
As Required	Thread, Nylon Size E	V-T-295 NIIN 00-204-3884

1. Cut two pieces of coated nylon cloth as shown.



Z0067001

Step 1 - Para 26-67

2. Fold piece of cloth in half along fold line.

3. Sew two sides adjacent to fold forming a pocket. Use stitch type 301 stitching 8 to 10 stitches per inch.

4. Repeat [steps 2](#) and [3](#) for other piece of cloth.

5. When packing life preserver, slip pockets over applicable pieces of hardware.

26-68. REPLACEMENT OF FLARE AND DYE MARKER POUCH SNAPHOOKS. To replace a broken snaphook, proceed as follows:

Materials Required

Quantity	Description	Reference Number
12 inches	Cord, Nylon, Type I	MIL-C-5040 NIIN 00-014-6699

1. Cut through ring portion of snaphook.

2. Remove snaphook and discard.

3. Pass end of cord through webbing loops on pouch and preserver ring.

4. Secure cord ends with binder knot, cut excess cord, and sear ends.

26-69. FLARE POUCH REPAIR. To repair flare pouch which will not close or is extremely difficult to close with flares installed, proceed as follows:

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Materials Required

Quantity	Description	Reference Number
As Required	Thread, Nylon, Size E	V-T-295 NIIN 00-204-3884
2	Socket, Snap Fastener	MS27983-2 NIIN 00-945-2577
2	Cap, Snap Fastener	MS27983-1 NIIN 00-891-9073
3 1/2 inches	Webbing, Type VIII	MIL-W-4008

1. Remove both sets of sockets, caps, and pull tabs from pouch closure flap. Save pull tabs.

2. Position MIL-W-4008 Type VIII webbing on outside surface of pouch flap. Cut and sear webbing ends to match contour of flap end. Boxstitch webbing to flap using size E nylon thread (V-T-295). See figure 26-7.

3. Reposition both sets of sockets, caps, and pull tabs 3/8 inch closer to flap end. Use original pull tabs.

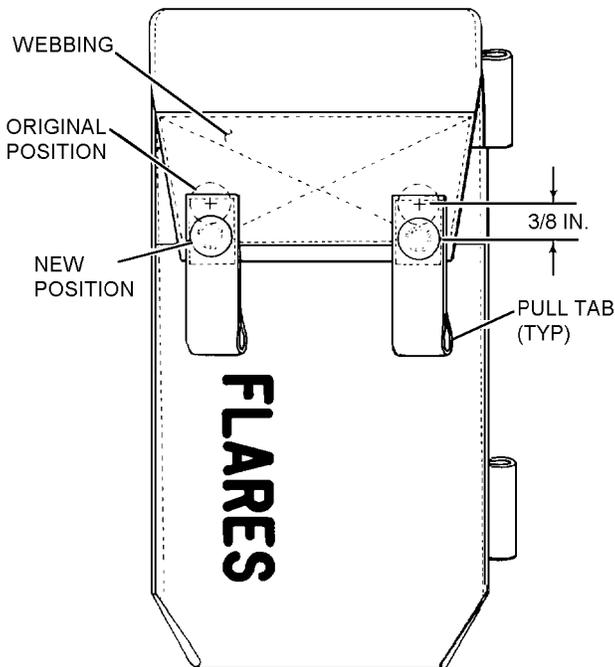


Figure 26-7. Flare Pouch Repair

10260007

26-70. DISASSEMBLY OF THE LIFE PRESERVER.

To disassemble the life preserver for bladder or case repairs, proceed as follows:

NOTE

Life preserver shall be disassembled only to the extent necessary to perform required maintenance or inspection.

The uni-directional snap fastener socket is installed with the dot on its button oriented to the side of the fastener on which lift must be applied to disengage socket from the snap fastener stud.

1. Open casing and remove both inflation assemblies.

2. Disengage uni-directional snap fasteners securing waist lobes to casing by applying lift on the dot-side snap fastener buttons.

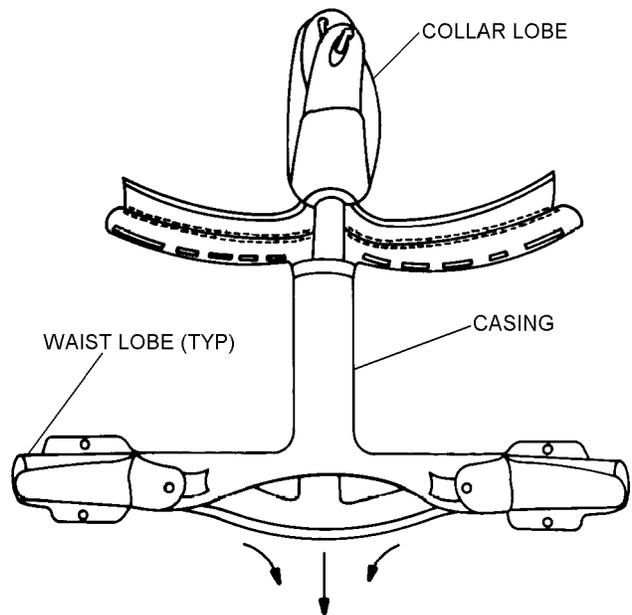
3. Disengage collar lobe from casing by inserting finger under casing between the two uni-directional snap fastener buttons and apply lift.

4. Reattach cap nuts to valve stems.

5. Release all hook and pile tape fasteners.

6. Fold collar lobe and waist lobes to width of casing.

7. Hold casing at collar and pull flotation assembly down and out of casing, one lobe at a time.



Step 7 - Para 26-70

Z0070007

26-71. REASSEMBLY OF THE LIFE PRESERVER.

To reassemble the life preserver proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Valve Stem and Seat Seal Kit (Note 1)	105AS100-5 (CAGE 30003) NIIN 00-498-6964

Notes: 1. Valve Stem and Seat Seal Kit, P/N 105AS100-5, NIIN 00-498-6964, contains two top, two bottom, and two seat seal gaskets.



Ensure flotation assembly is not twisted in casing channels.

1. Roll collar lobes of flotation assembly together to form compact rod-like configuration and insert into base of back channel of casing. While holding lobes in roll configuration, work them through casing back channel. Next, insert waist lobes through casing waist channels.

2. When flotation assembly is in casing assembly, ensure that it is in proper configuration and is not twisted inside casing.

3. Align uni-directional snap fastener studs on each collar lobe with snap fastener sockets of casing assembly and secure snap fasteners.

NOTE

For ease of operation, insert one side of snap fastener stud into the socket on the side opposite the dot on the button, and press to engage.

4. Align uni-directional snap fastener sockets of flotation assembly waist lobe attachment patch with snap fastener studs of casing assembly and secure waist lobes to casing assembly.

5. Remove old inflation gaskets and replace with new gaskets. Reinstall inflation assemblies and protective covers. Pack life preserver in accordance with paragraph 26-85.

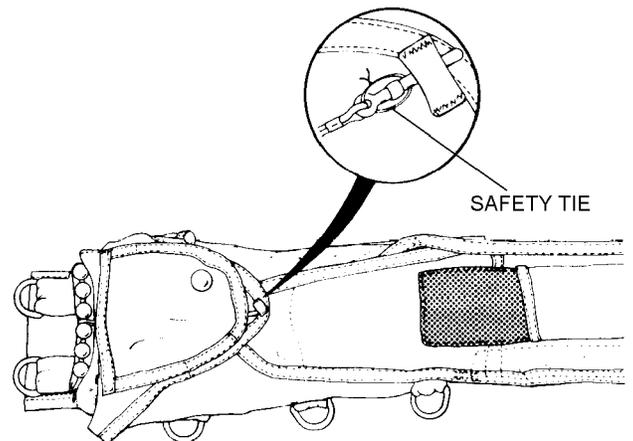
26-72. REPLACEMENT OF BEADED INFLATION HANDLE ASSEMBLY.

To replace the beaded inflation handle, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Handle, Beaded, Inflation	975AS121-11 NIIN 01-120-4752 (CAGE 30003)
As Required	Thread, Nylon, Size E	V-T-295 NIIN 00-204-3884

1. Open snap fastener on locking pin cover; then cut and remove safety tie securing eye of locking pin to retaining loop. Carefully remove locking pin from pin keeper and retaining loop.



Step 1 - Para 26-72

Z0072001

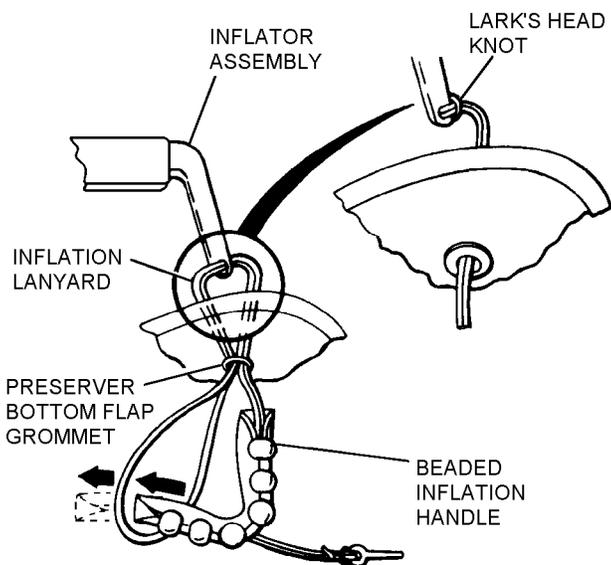
2. Open flaps and unfold life preserver assembly.

3. Remove CO₂ cylinder and seat seal gasket from CO₂ inflator assembly. Retain CO₂ cylinder and seat seal gasket for reinstallation.

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4. Remove inflation lanyard from inflator assembly; then unsnap beaded inflation handle from life preserver casing.

5. Secure new beaded handle inflation lanyard to actuating lever by passing lanyard through grommet in bottom casing flap and through hole in end of actuating lever. Pass lanyard back through grommet in bottom casing flap and form lark's head knot.



Step 5 - Para 26-72

Z0072005

6. Fasten beaded inflation handle to casing with snap fasteners provided; then safety-tie beaded inflation handle with one turn of size E nylon thread, single. Draw thread sufficiently to permit 1/2-inch ± 1/8-inch space between the middle beads and webbing on the preserver. Tie ends of both safety ties with a surgeon's knot followed by a square knot.

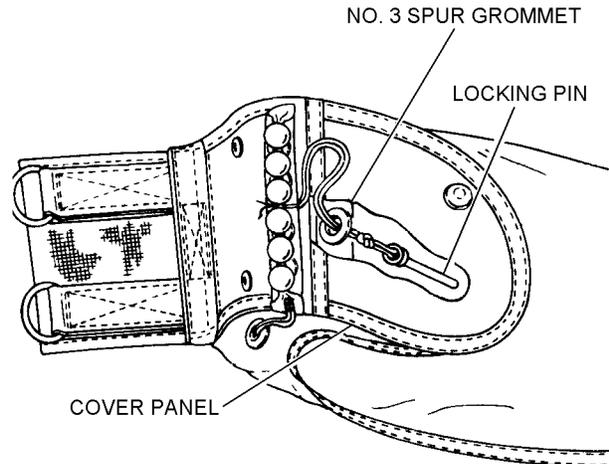
NOTE

Ensure that overhand knot on locking pin lanyard is within 3/4 inch from eye of pin.

7. Route locking pin under outboard flap cover panel and through No. 3 spur grommet.

NOTE

On some late issue LPU-21D/P casings, the No. 3 spur grommet has been deleted.

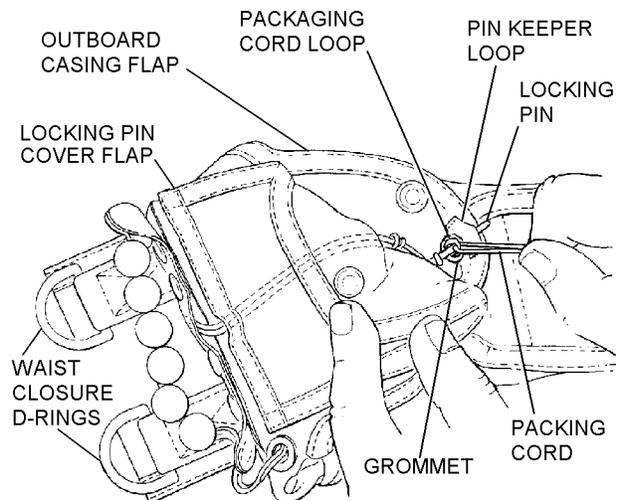


NOTE: LEFT LOBE SHOWN

Z0072007

Step 7 - Para 26-72

8. Route the locking pin under the locking pin cover flap through the opening in the stitching at the base of the flap, through the retaining loop/packaging cord loop, and under the pin keeper loop.



(WITHOUT NO. 3 SPUR GROMMET)

NOTE: LEFT LOBE SHOWN

Z0072008

Step 8 - Para 26-72

9. Perform beaded inflation handle pull test. Refer to [paragraph 26-47](#).

10. Recoil CO₂ inflator and install seat seal gasket and CO₂ cylinder.

NOTE

Ensure that all hook and pile tapes are securely mated.

11. Pack life preserver according to procedures outlined in [paragraph 26-85](#).

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

26-73. REPAIR OF CORRODED CO₂ INFLATION VALVE MIL-I-23145. To repair CO₂ inflation valve, proceed as follows:

Materials Required (Cont)

Quantity	Description	Reference Number
As Required	Corrosion Preventative Compound, (Amiguard) Type I	MIL-C-85054 NIIN 01-041-1596

Notes: 1. Valve Stem and Seat Seal Kit, P/N 105AS100-5, NIIN 00-498-6964, contains two top, two bottom, and two seat seal gaskets.

1. Remove CO₂ cylinder from valve.
2. Remove inflation valve from preserver. Discard two gaskets on valve stem.
3. Remove grooved taper pin (retaining lever) from inflation valve, using awl and mallet. See [figure 26-8](#).
4. Remove lever, spring, and piercing pin. If spring is broken or corroded, replace entire valve.
5. If piercing pin or actuating lever is corroded, remove corrosion with abrasive mat. If abrasive mat is ineffective, use 240 grit emery cloth. Do not damage O-ring on piercing pin. Wipe off any dirt or moisture from actuating lever and apply a thin coat of MIL-C-85054 and allow to dry.

Materials Required

Quantity	Description	Reference Number
As Required	Lubricant, Silicone	DC7 (CAGE 71984) NIIN 00-995-0712
1	Valve Stem and Seat Seal Kit (Note 1)	105AS100-5 (CAGE 30003) NIIN 00-498-6964
As Required	Cloth, Emery No. 240	—
1	Valve, Inflation	MIL-I-23145 Type II NIIN 00-941-1922
As required	Abrasive Mat	MIL-A-9962 NIIN 00-967-5093

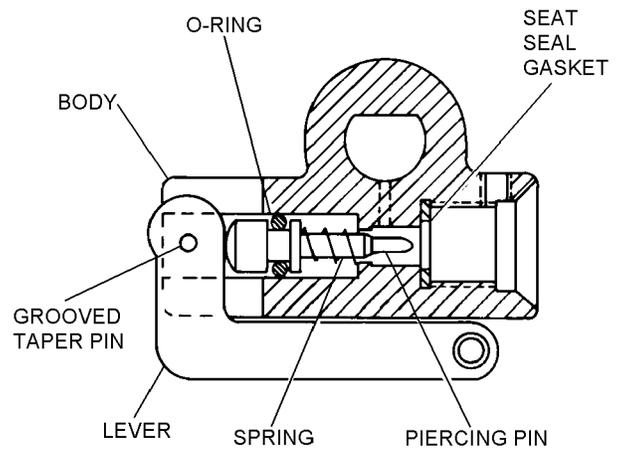


Figure 26-8. CO₂ Inflation Assembly

NAVAIR 13-1-6.1-2

6. Clean residue from actuating lever on piercing pin. Lightly coat base of piercing pin with silicone lubricant.

7. Reassemble inflation valve and operate actuating lever three or four times. Ensure that lever and piercing pin move freely.

8. If piercing pin and lever do not move freely, obtain replacement valve.

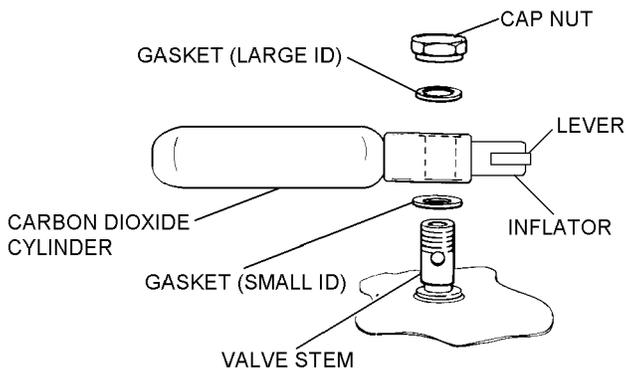
9. Reinstall inflation valve on life preserver using new gaskets from kit.



Valve stem may rotate if cap nut is over torqued.

10. Install cap nut onto valve stem and torque to a value of 8 ± 1 in-lb.

11. Reinstall new seat seal gasket and CO₂ cylinder.



Step 11 - Para 26-73

Z0073011

26-74. REPLACEMENT OF TOP AND BOTTOM GASKETS. To replace the top and bottom gaskets on an inflator, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Wrench, 9/16-inch	—

Materials Required

Quantity	Description	Reference Number
1	Valve Stem and Seat Seal Kit (Note 1)	105AS100-5 (CAGE 30003) NIIN 00-498-6964

Notes: 1. Valve Stem and Seat Seal Kit, P/N 105AS100-5, NIIN 00-498-6964, contains two top, two bottom, and two seat seal gaskets.

1. Remove cap nut and top gasket from inflator.

WARNING

Ensure that gaskets are properly positioned. The top gasket has a larger internal diameter than the bottom gasket.

2. Remove inflator and replace bottom gasket.

3. Carefully place inflator onto valve stem.

4. Install top gasket onto valve stem.

CAUTION

Valve stem may rotate if cap nut is over torqued.

5. Tighten cap nut onto valve stem and torque to a value of 8 ± 1 in-lb.

6. Perform functional and leakage tests on life preserver cell that was repaired. Refer to paragraphs 26-37 and 26-46.

26-75. REPLACEMENT OF CHECK VALVE ASSEMBLY. To replace a defective check valve assembly, proceed as follows:

Materials Required

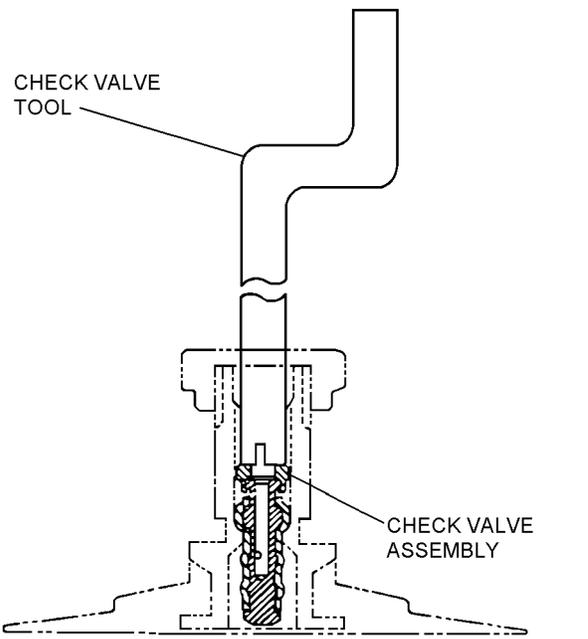
Quantity	Description	Reference Number
1	Valve, Pneumatic Inflator (Check Valve Assembly) (Note 1)	Schrader-Bridgeport P/N 8457500047

Notes: 1. Schrader-Bridgeport P/N 8457500047 must be open purchased from:
 Schrader-Bridgeport Intl
 205 Frazier Rd
 P.O. Box 668
 Altivista, VA 24517
 Phone (804) 369-8875

Support Equipment Required

Quantity	Description	Reference Number
1	Tool, Valve Core	8769A or equivalent (CAGE 27783) NIIN 01-354-5423
1	Wrench, Torque	—

1. If not available, fabricate a valve core tool as shown in Chapter 3.
2. Remove inflator cap nut.
3. Insert valve core tool and unscrew check valve from valve stem.



Step 3 - Para 26-75

4. Insert new check valve in valve stem and tighten with valve core tool hand tight.



Valve stem may rotate if cap nut is over torqued.

5. Replace cap nut and torque to a value of 8 ± 1 in-lb.

6. Perform a functional and leakage test on life preserver cell that was repaired. Refer to paragraphs 26-37 and 26-46.

26-76. FABRICATION OF PROTECTIVE COVER ASSEMBLY. To fabricate a protective cover, proceed as follows:

Materials Required

Quantity	Description	Reference Number
17 x 6 inches	Cloth, Nylon, Polychloroprene-coated, Type I Sage Green	MIL-C-19002 NIIN 00-935-1759
12 x 5/8 inches	Fastener, Tape, Hook, Type II	MIL-F-21840
12 x 5/8 inches	Fastener, Tape, Pile, Type II	MIL-F-21840
As Required	Thread, Nylon, Type I or II, Size E	V-T-295 NIIN 00-204-3884

NOTE

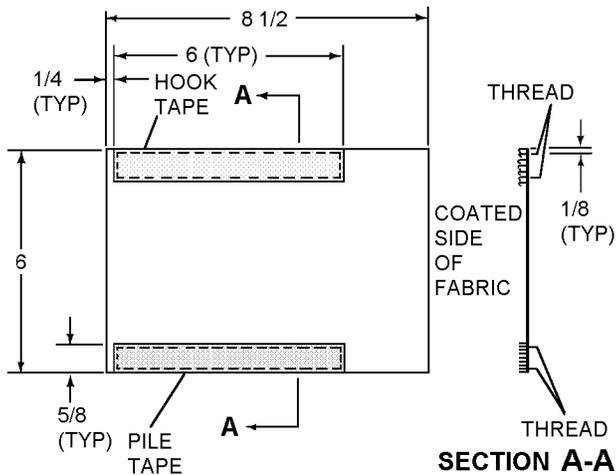
Procedural step 1 is for a right protective cover and step 2 is for a left protective cover.

1. To fabricate a right protective cover, proceed as follows:

- a. Cut an 8 1/2-inch length of cloth.

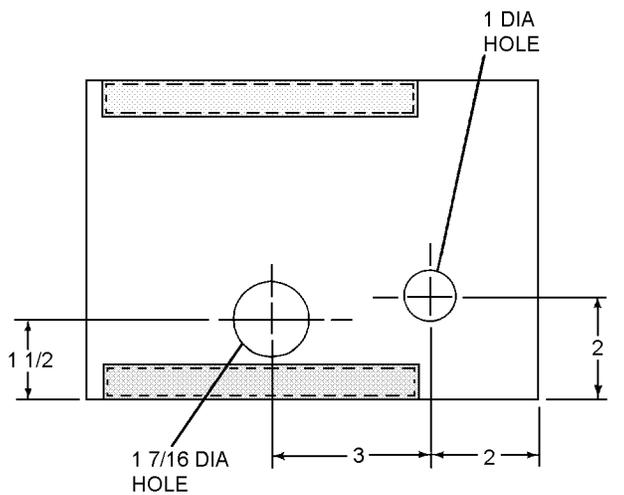
NAVAIR 13-1-6.1-2

b. Cut a 6-inch length each of hook and pile tape and sew to the coated side of the cloth. Use stitch type 301 stitching 8 to 10 stitches per inch.



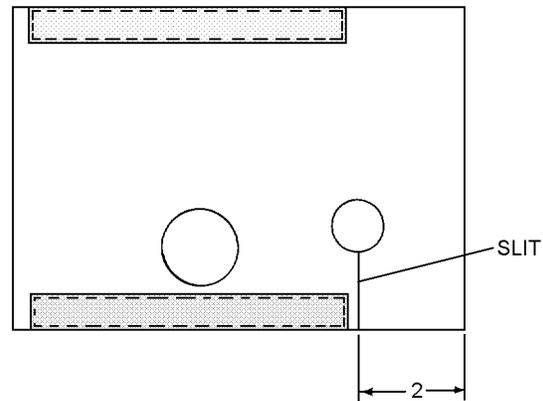
Step 1b - Para 26-76

c. Position coated, coated side up, over cutting board and punch a 1 7/16-inch diameter hole and a 1-inch diameter hole.



Step 1c - Para 26-76

d. Cut slit into cloth up to the 1-inch diameter hole.

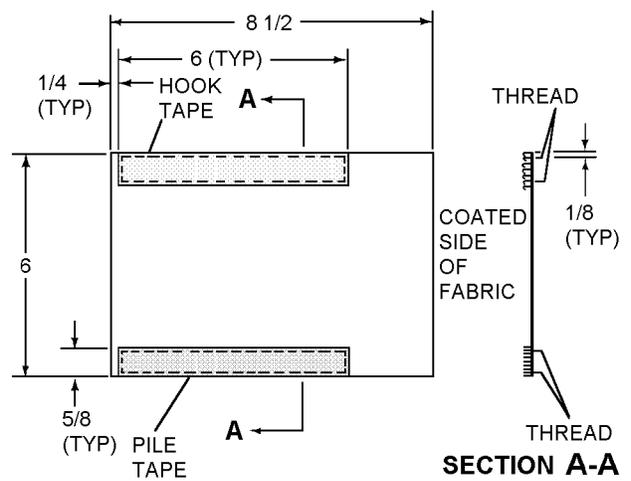


Step 1d - Para 26-76

2. To fabricate a left protective cover, proceed as follows:

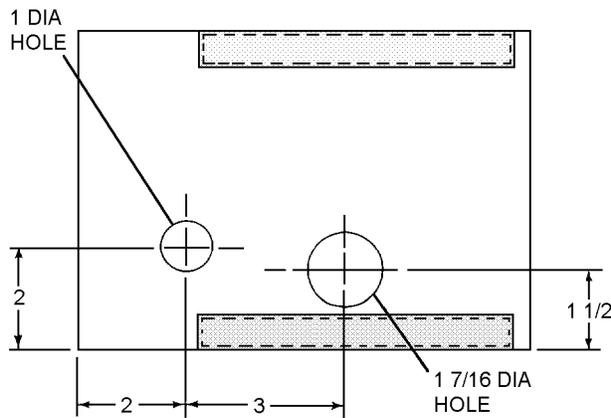
a. Cut an 8 1/2-inch length of cloth.

b. Cut a 6-inch length each of hook and pile tape and sew to the coated side of the cloth.



Step 2b - Para 26-76

c. Position cloth, coated side up, over cutting board and punch a 1 7/16-inch diameter hole and a 1-inch diameter hole.



Step 2c - Para 26-76

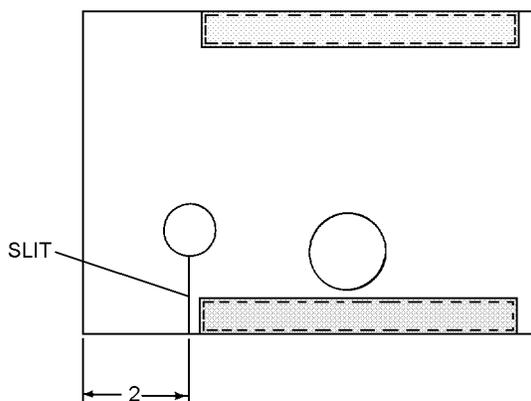
Z007602C

26-77. FABRICATION OF COLLAR LOBE WEBBING LOOPS. To fabricate collar lobe webbing loops, proceed as follows:

Materials Required

Quantity	Description	Reference Number
18-inch Length	Webbing, Nylon, Type IV, 1-inch Width	MIL-T-5038 NIIN 00-261-8579 (CAGE 81349)
2	Post, Snap Fastener	MS27981-5B NIIN 00-250-6858 (CAGE 96906)
2	Stud, Snap Fastener	MS27981-4B NIIN 00-901-9660 (CAGE 96906)
2	Socket, Snap Fastener	M527981-3B NIIN 00-276-4966 (CAGE 96906)
2	Cap, Snap Fastener	M527981-1B NIIN 00-276-4954 (CAGE 96906)
As Required	Thread, Nylon Type II, Size E	V-T-295 NIIN 00-204-3884

d. Cut slit into cloth up to the 1-inch diameter hole.



Step 2d - Para 26-76

Z007602D

NOTE

All stitching shall be 10 to 12 stitches per inch, size E nylon thread.

1. Cut two 9-inch lengths of 1-inch wide nylon webbing and sear ends.

2. Sew one piece of webbing to outer side of each collar lobe casing in accordance with dimensions shown in figure 26-9.

3. Position and install snap fasteners in accordance with dimensions shown in figure 26-9, and ensure proper mate.

26-78. FABRICATION AND INSTALLATION OF LOCKING PIN COVER (LIFE PRESERVERS WITH-OUT NO. 3 SPUR GROMMET). Fabricate and install the locking pin cover as follows:

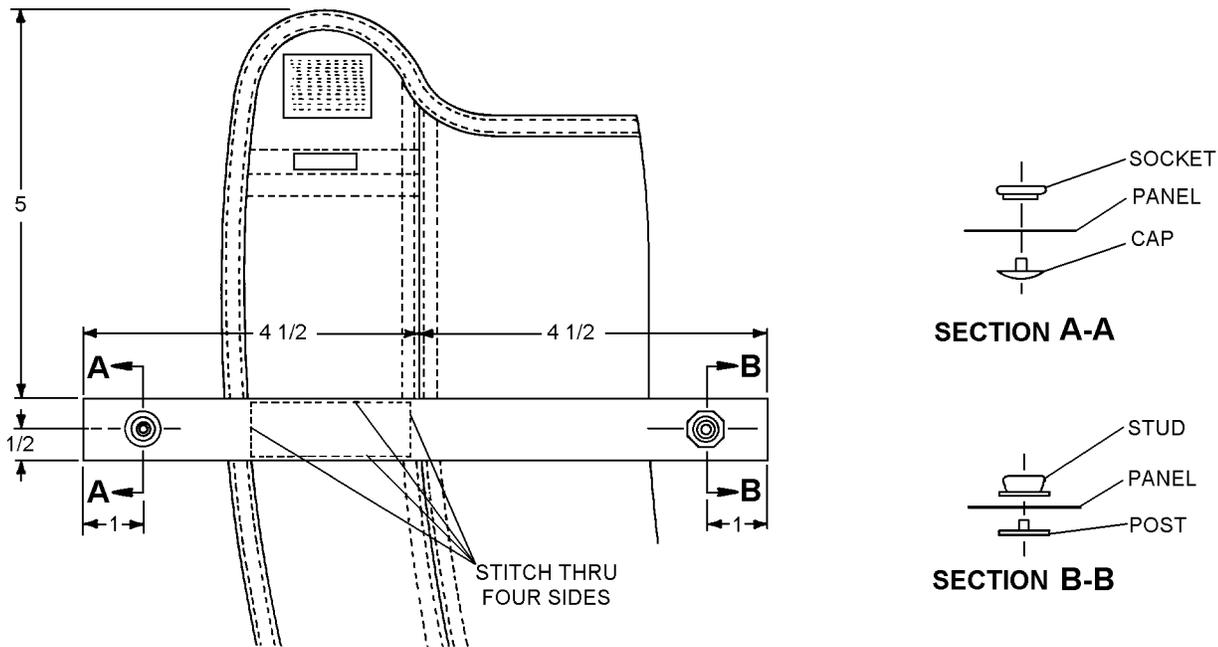


Figure 26-9. Addition of Webbing Loops

10260009

CAUTION

Only Polychloroprene adhesives and Polychloroprene-coated cloth patches shall be used on Polychloroprene-coated LPU-21C(V)1/P life preserver assemblies.

Materials Required

Quantity	Description	Reference Number
1	Socket, Snap Fastener	MS27981-3B NIIN 00-276-4966
1	Cap, Snap Fastener	MS27981-1B NIIN 00-276-4954
As Required	Cloth, Nylon, Polychloroprene-coated, Type I Sage Green	MIL-C-19002 NIIN 00-935-1759

Materials Required (Cont)

Quantity	Description	Reference Number
As Required	Thread, Stitching, Nylon, Type I or II, Size E	V-T-295 NIIN 00-204-3884
As Required	Tape, Binding, Nylon, 3/4-inch Wide, Sage Green 1551 Type III	MIL-T-5038 NIIN 00-176-8083

1. Cut basic locking pin cover from coated nylon cloth in dimensions shown in figure 26-10. Define form of locking pin cover using appropriate end of casing waist lobe assembly as pattern.

2. Reinforce fabric with single row stitching around entire perimeter of locking pin cover.

NOTE

Binding tape may be in one continuous strip or two sections.

3. Apply 3/4-inch binding tape to perimeter of cover as shown in figure 26-10.

4. Align locking pin cover with mating surface of casing assembly and install in accordance with figure 26-11.

5. Mark snap fastener alignment and install locking pin cover, snap fastener socket and cap.

NOTE

When properly aligned with casing assembly, the straight edge of locking pin cover will be butted 1/8-inch from edge of beaded inflation handle snap fastener stud installation (casing main panel subassembly).

26-79. REPLACEMENT OF COLLAR LOBE UNI-DIRECTIONAL SNAP FASTENERS AND WEBBING. Fabricate and install snap fasteners and shoulder strap webbing as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Webbing, Nylon, Type IV, 1-inch Wide	MIL-T-5083 NIIN 00-261-8579
4	Socket, Snap Fastener	MS27983-2 NIIN 00-945-2577
4	Cap, Snap Fastener	MS27983-1 NIIN 00-891-9073
2	Loop, Slide	MS51940-3B
2	Hook, Snap	M43770/1-CWBCI
As Required	Thread, Nylon, Type I or II, Size E	V-T-295 NIIN 00-204-3884

1. Cut 14-inch length of nylon webbing and sear each end.

2. Form an inch long three-layer end-tab and sew a 3/4 inch long cross box stitch in accordance with figure 26-12.

3. Pass the free end through slide loop, then route through snap hook and back through slide loop. Ensure snap hook is facing proper direction.

4. Position free end of webbing on collar lobe casing and stitch in place as indicated.

NOTE

Ensure dots on caps of uni-directional snap fasteners are installed with dot-side of caps facing each other.

5. Install two uni-directional snap fastener sockets with dots on caps on the inside (facing) as shown in figure 26-12.

26-80. FABRICATION OF LPU-21C(V)1/P LIFE PRESERVER. To fabricate an LPU-21C(V)1/P, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Ink, Marking, Laundry, Black	SPE-92 NIIN 00-161-4229

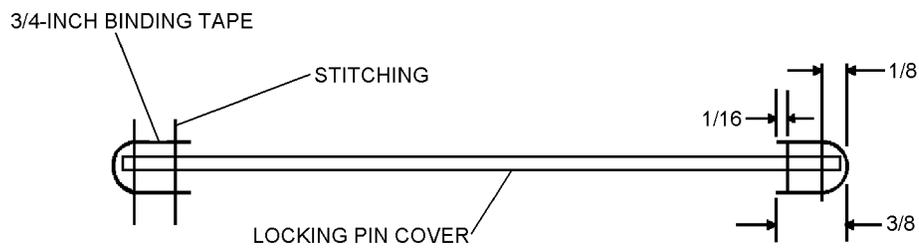
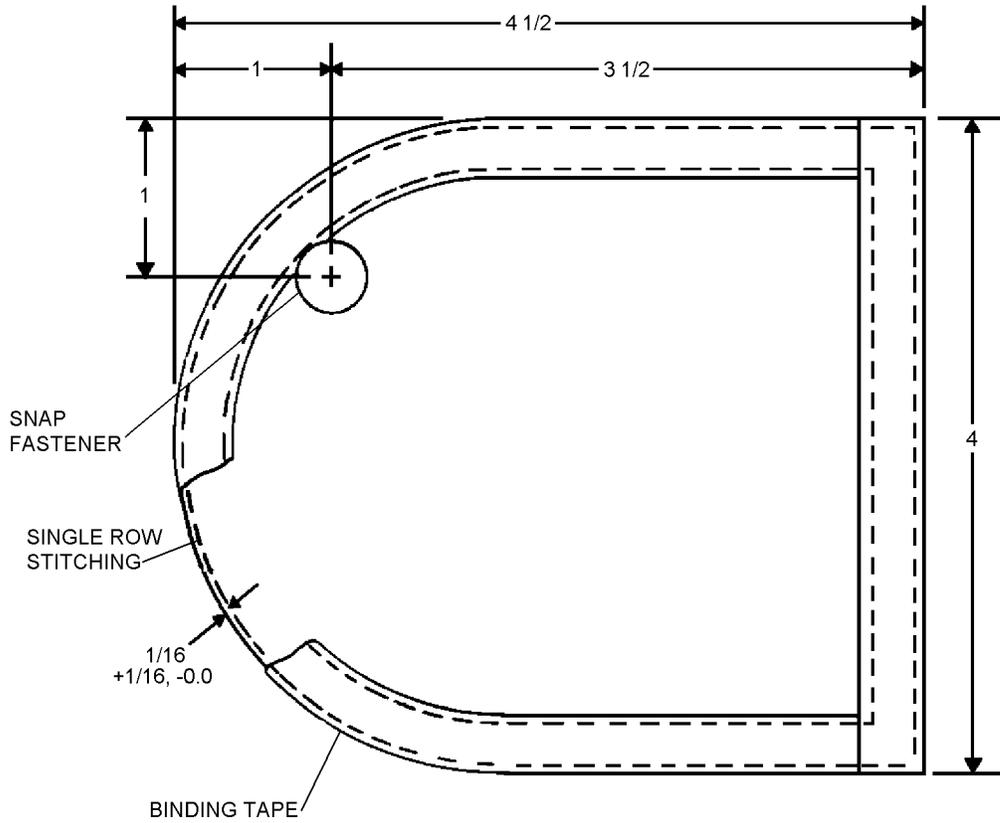
NOTE

Prior to beginning modification/fabrication procedures ensure the collar lobe snap hooks and patches and the old waist lobe attachment patches have been removed from the LPU-21C/P bladder assembly. All old cement should be removed for ease in cementing new bladder and snap fastener attachment patches.

1. Modify LPU-21C/P flotation assembly with the addition of waist lobe and collar lobe snap fasteners in accordance with paragraphs 26-81 through 26-84.

2. Using black waterproof ink, blackout existing type classification number on the inside of the life preserver casing. As closely as possible to the original number, stencil in the new number, LPU-21C(V)1/P, using black waterproof ink.

3. Assemble life preserver in accordance with procedure of paragraph 26-71.

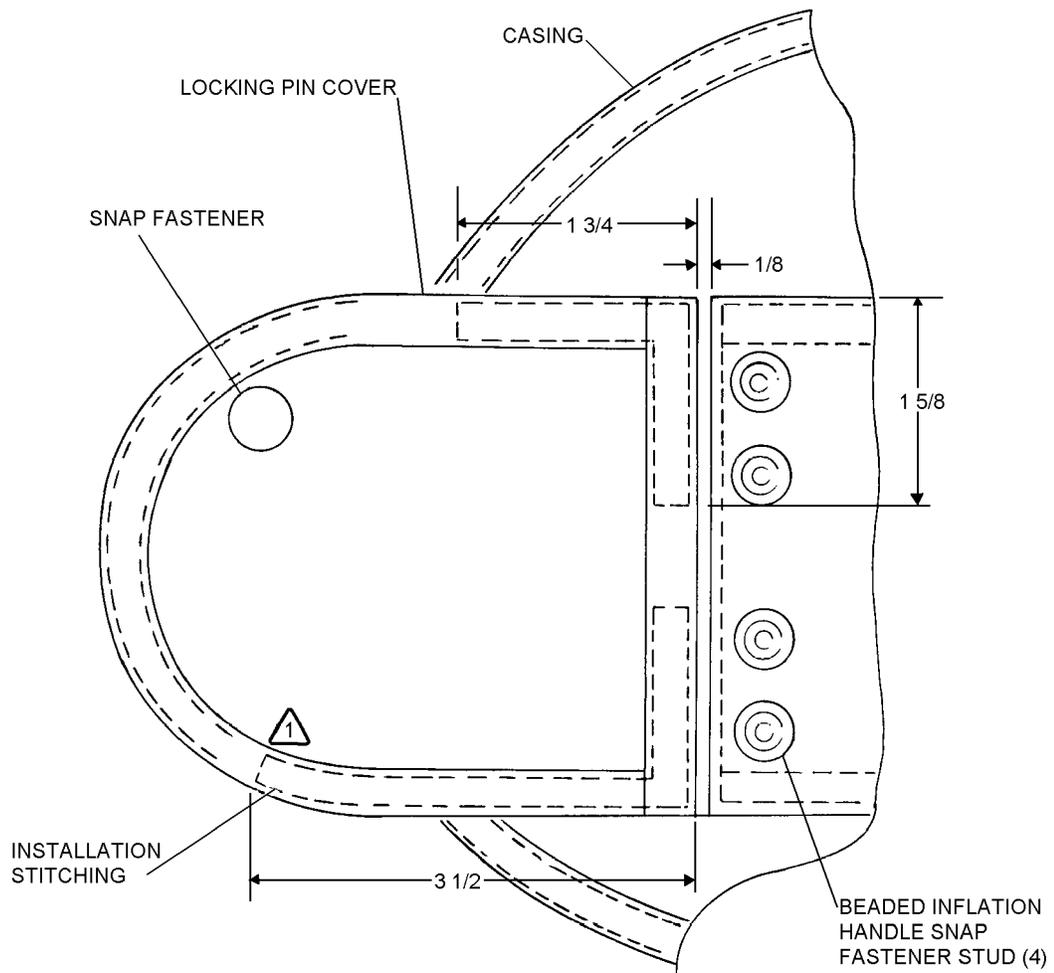


BINDING TAPE INSTALLATION

RIGHT HAND SHOWN - LEFT HAND OPPOSITE

Figure 26-10. Fabrication of Locking Pin Cover

10260010



RIGHT HAND SHOWN - LEFT HAND OPPOSITE

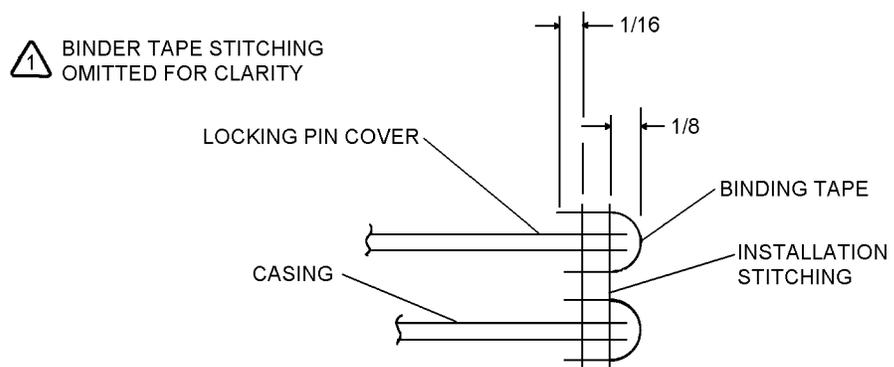


Figure 26-11. Locking Pin Cover Installation

10260011

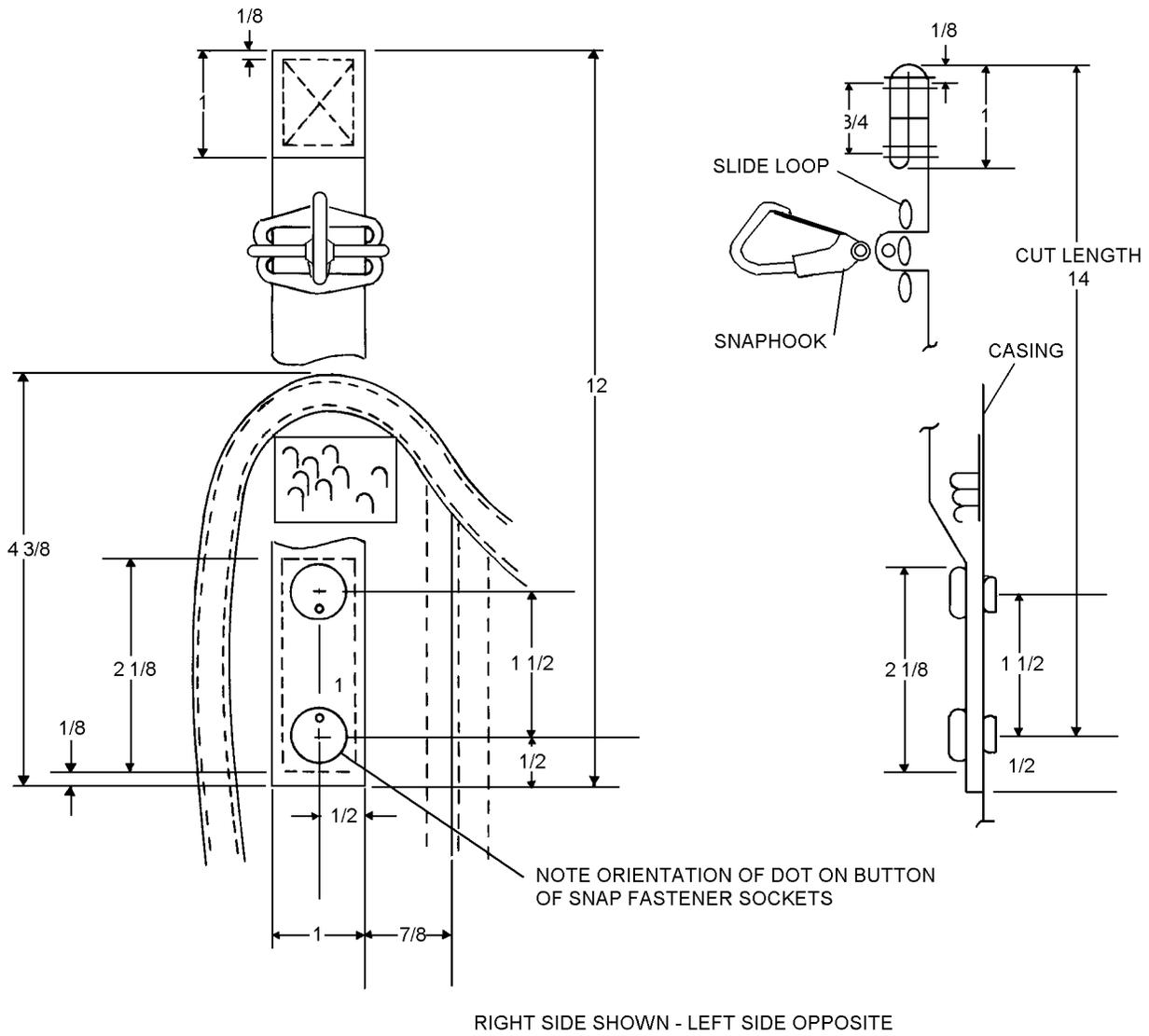


Figure 26-12. Collar Casing Shoulder Strap Fabrication and Installation

10260012

NOTE

The installation of an LPU-21D/P flotation assembly into an LPU-21C/P casing is not authorized.

26-81. FABRICATION AND INSTALLATION OF WAIST LOBE ATTACHMENT PATCH (LPU-21C(V)1/P).

The following procedures pertain to the fabrication and installation of the left waist lobe attachment patch. These instructions are typical and apply to both left and right waist lobe installations (See Figure 26-13).

Support Equipment Required

Quantity	Description	Reference Number
1	Roller, Wooden	GGG-R-00620

Materials Required

Quantity	Description	Reference Number
12	Cap, Snap Fastener	MS27983-1 NIIN 00-891-9073
12	Socket, Snap Fastener	MS27983-2 NIIN 00-945-2577
12	Stud, Snap Fastener	MS27983-3 NIIN 00-276-4908
12	Post, Snap Fastener	MS27983-4 NIIN 00-276-4978
As Required	Cloth, Polychloroprene-coated	MIL-C-87187

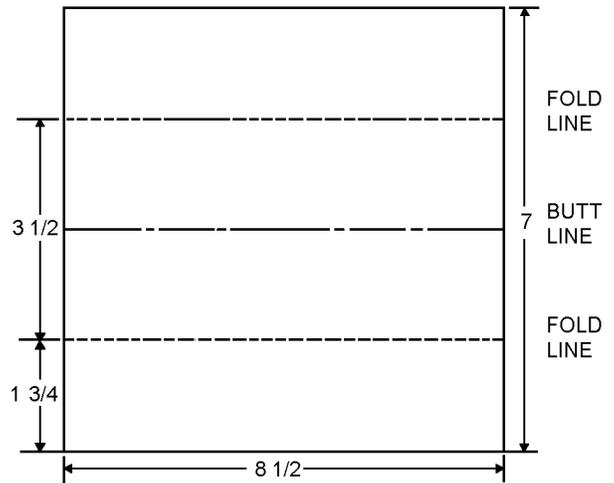


Use only Polychloroprene adhesives and Polychloroprene-coated cloth patches on Polychloroprene-coated LPU-21C(V)1/P flotation assemblies.

26-82. Bladder Attachment Patch. Procedures for fabrication and installation of the bladder attachment patch are as follows:

1. Spread left waist lobe of deflated life preserver bladder on clean flat surface.

2. Fabricate attachment patch using polychloroprene-coated cloth.



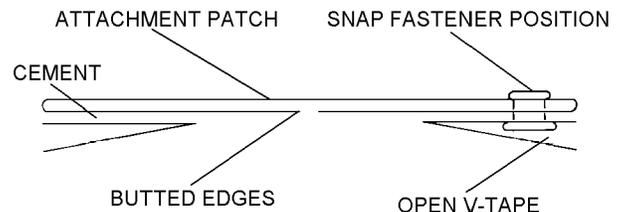
Step 2 - Para 26-82

Z0082002

3. Fold cloth at fold lines, with coated side inside, butt edges together at butt line to form attachment patch 8 1/2 inches by 3 1/2 inches. Crease edges at fold line.

4. Complete the basic attachment patch form by applying polychloroprene adhesive to coated side of the patch in accordance with paragraph 26-62. Fold and butt together the edges as in step 3.

5. Cut two 8 1/2-inch x 2-inch lengths of polychloroprene-coated cloth. Fold each length in half, coated side out, to form 8 1/2-inch x 1-inch lengths. Roll fold line with wooden roller to form "V". Cement one length on each side of the attachment patch, open "V" to the outside. Follow cementing procedure in paragraph 26-62 using polychloroprene adhesive.



Step 5 - Para 26-82

Z0082005

NAVAIR 13-1-6.1-2

6. Measure and punch six holes in attachment patch for installation of six uni-directional snap fastener sockets (figure 26-13).

7. Install six uni-directional snap fastener sockets with dots on caps oriented to center point of attachment patch (figure 26-13).

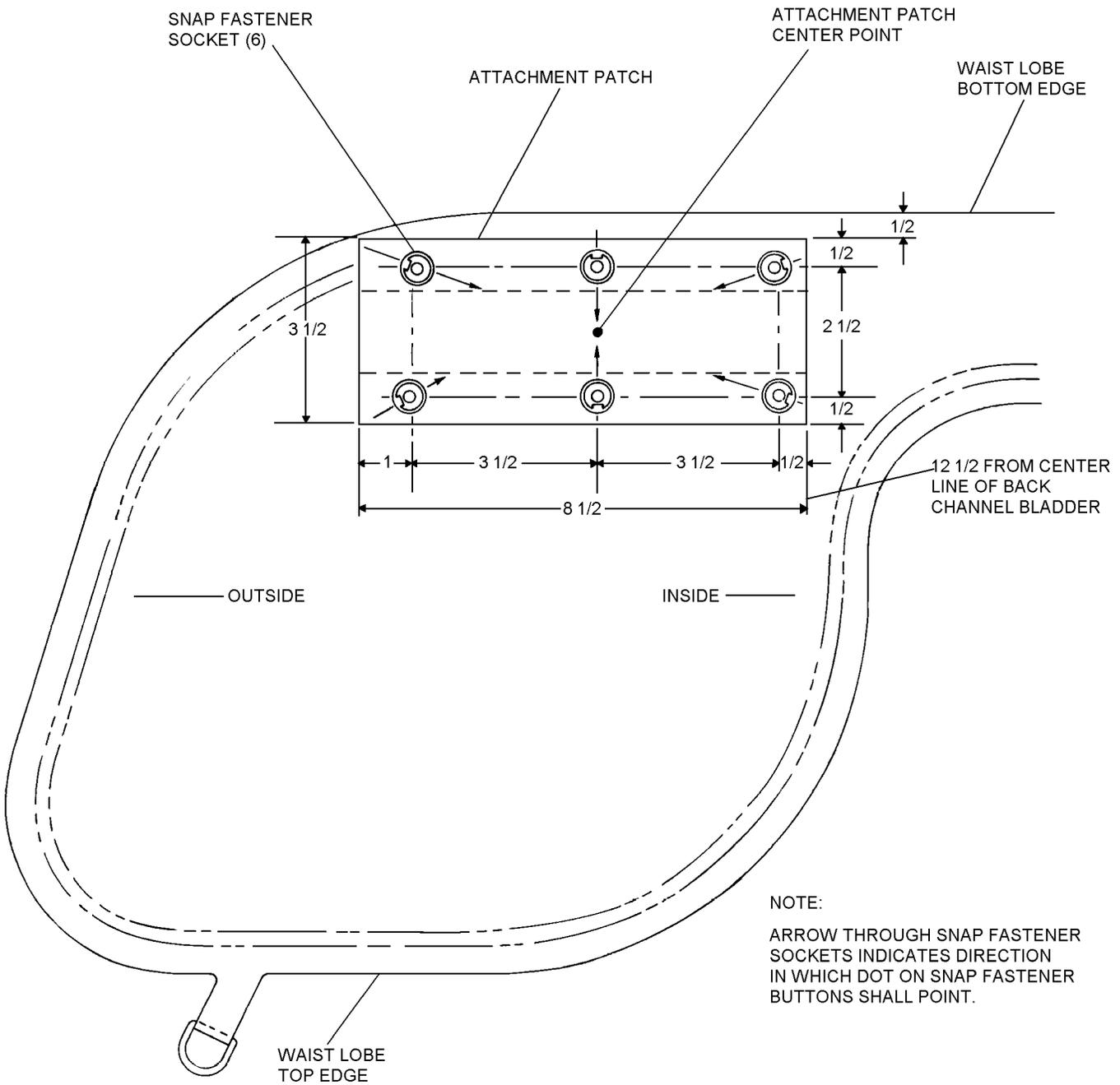


Figure 26-13. Bladder Attachment Installation Dimensions

10260013

8. Position attachment patch on bladder waist lobe as indicated in figure 26-13 and mark the area on waist lobe. Apply polychloroprene adhesive in accordance with paragraph 26-62 and attach the patch to bladder waist lobe.



Use only Polychloroprene adhesives and Polychloroprene-coated cloth patches on Polychloroprene-coated LPU-21C(V)1/P flotation assemblies.

26-83. Installation of Casing Attachment Patch Snap Fastener Studs. Install six uni-directional snap fastener studs in waist lobe casing as follows:

1. Spread casing assembly flat on clean level surface. Hold in flat non-distorted position using thumb tacks or other available means not harmful to fabric.

2. Measure and mark snap fastener positions using dimensions in figure 26-14. Remove restraints from casing.

3. Install six snap fastener studs and posts.

Materials Required

Quantity	Description	Reference Number
As Required	Cloth, Nylon, Polychloroprene-coated, Type I, Sage Green	MIL-C-19002 NIIN 00-935-1759
2	Stud, Snap Fastener, Uni-directional	MS27983-3 NIIN 00-276-4908
2	Post, Snap Fastener	MS27983-4 NIIN 00-276-4978

26-84. FABRICATION AND INSTALLATION OF COLLAR LOBE UNI-DIRECTIONAL SNAP FASTENER STUDS. Fabrication and installation of the bladder collar lobe snap fastener studs are typical of left and right sides. See figure 26-15. Proceed as follows:

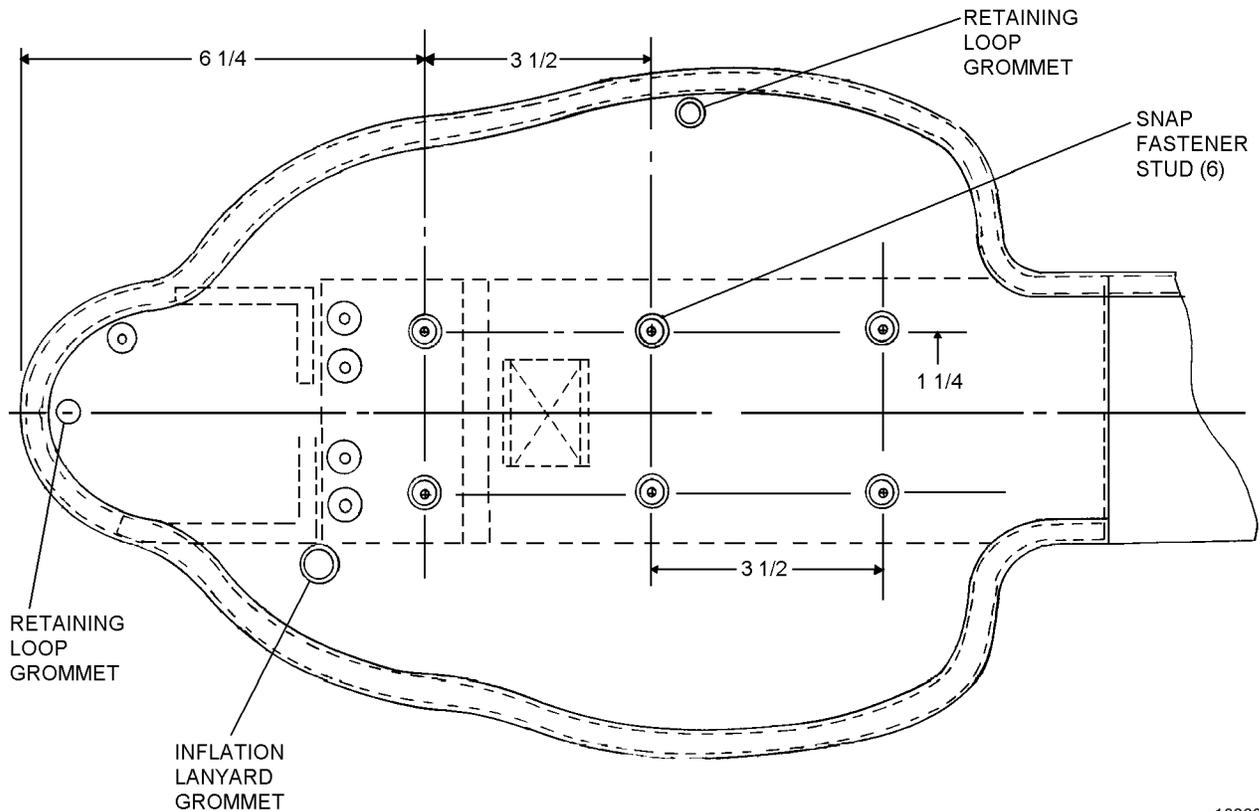


Figure 26-14. Installation Casing Attachment Patch Snap Fastener Studs

10260014

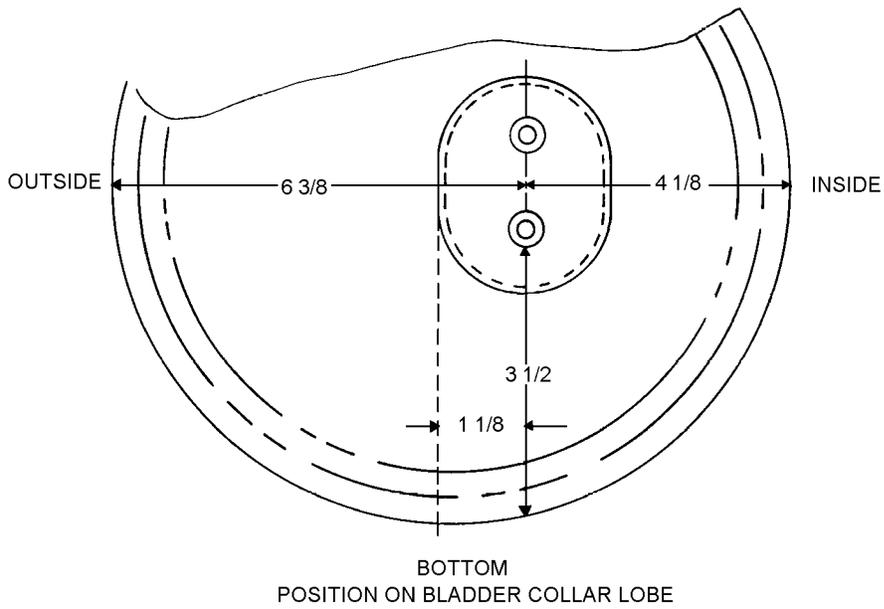
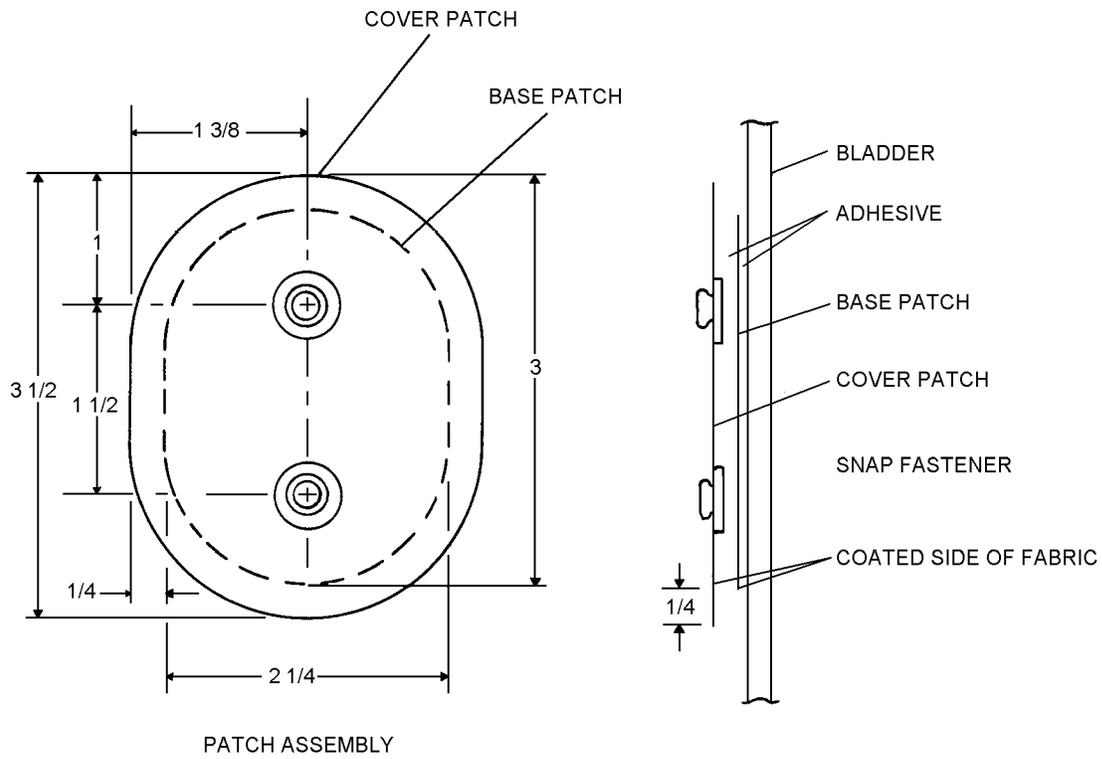


Figure 26-15. Bladder Collar Lobe Snap Fastener Studs

10260015

WARNING

Do not use toluene or MEK near open flame, heat, or electrical sparks. Avoid prolonged contact with skin or breathing of fumes. Use only in well-ventilated area.

NOTE

Toluene shall be the primary solvent used in the fabrication or repair of this assembly. MEK may be used if toluene is not available. Always use solvents sparingly and wipe up excess solvents; do not allow to dry by evaporation.

1. Fabricate new cover and base patches from polychloroprene-coated nylon cloth (figure 26-15).
2. Install two uni-directional snap fastener studs on cover patch.
3. Cement base patch uncoated surface to coated surface of cover patch using adhesive following procedures in paragraph 26-62.

NOTE

Properly oriented base patch will leave 1/4 inch perimeter of cover patch coated surface exposed (figure 26-15).

4. Ensure proper orientation of cover and base patch assembly (figure 26-15) and cement coated surface to life preserver flotation bladder following procedures in paragraph 26-62.
5. Apply toluene or MEK solvent to loosen unsatisfactory cover and base patches. Remove loosened patches from life preserver flotation bladder and discard.

26-85. PACKING PROCEDURE FOR LPU-21C(V)1/P LIFE PRESERVER ASSEMBLY.

NOTE

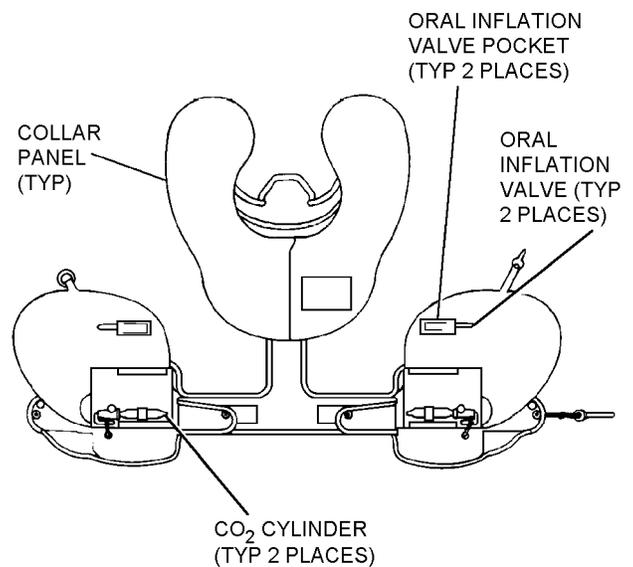
The LPU-21C(V)1/P shall be packed by qualified personnel at the lowest level of maintenance possible.

26-86. To pack an LPU-21C(V)1/P life preserver assembly, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Talc, Technical	MIL-T-50036A
As Required	Cord, Nylon Type I	MIL-C-5040 NIIN 00-240-2154
As Required	Thread, Nylon Size A	V-T-295 NIIN 00-204-3803
As Required	Thread, Nylon Size E	V-T-295 NIIN 00-204-3884

1. Ensure that preserver has been inspected in accordance with paragraph 26-26.
2. Prior to packing, ensure that chambers are thoroughly deflated. Ensure all bladder surfaces front and rear are lightly dusted with talc.
3. Oral inflation valve shall be locked by knurled ring and placed in oral valve pocket. Position life preserver assembly with collar panel folded down.

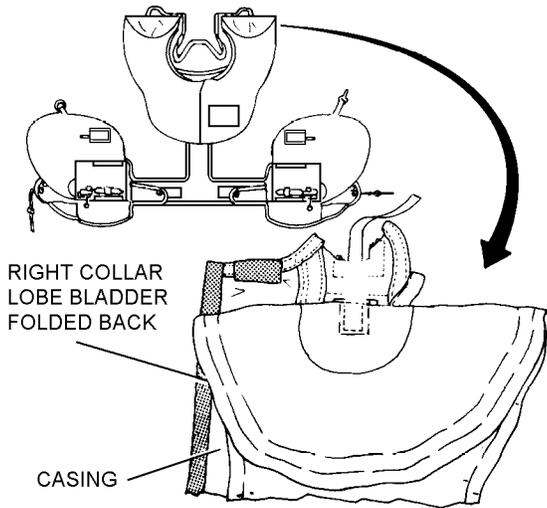


Step 3 - Para 26-86

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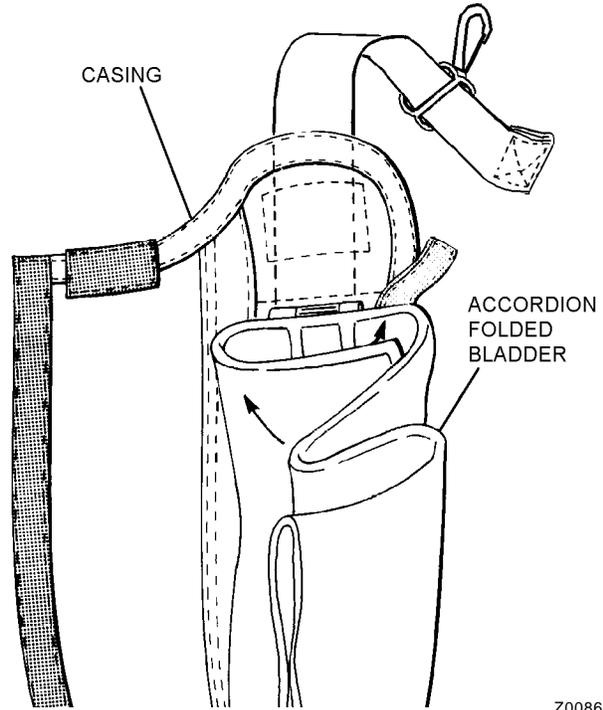
4. Connect the snap fasteners on the bladders collar lobes with those on the casing and fold collar edge over snap fasteners in casing.



Step 4 - Para 26-86

Z0086004

6. Accordion-fold sides of collar lobes into collar casing.

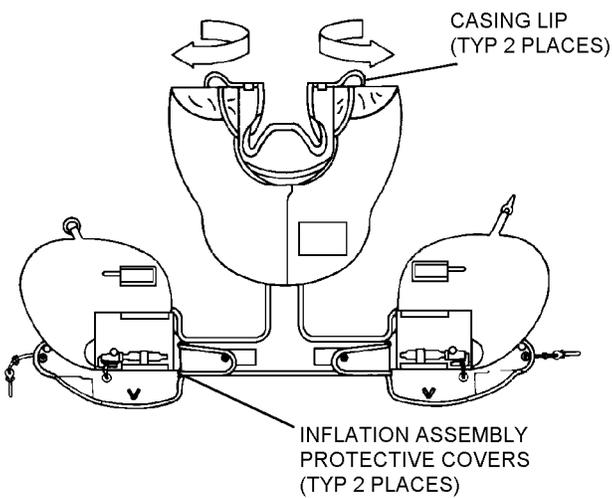


Step 6 - Para 26-86

Z0086006

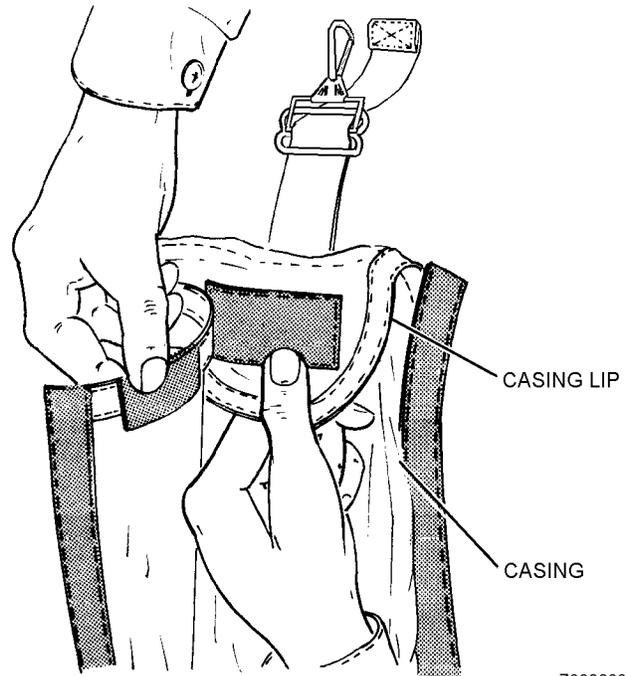
5. Fold over edge of collar panels.

7. Tuck in casing lip and secure collar casing with hook and pile tape.



Step 5 - Para 26-86

Z0086005



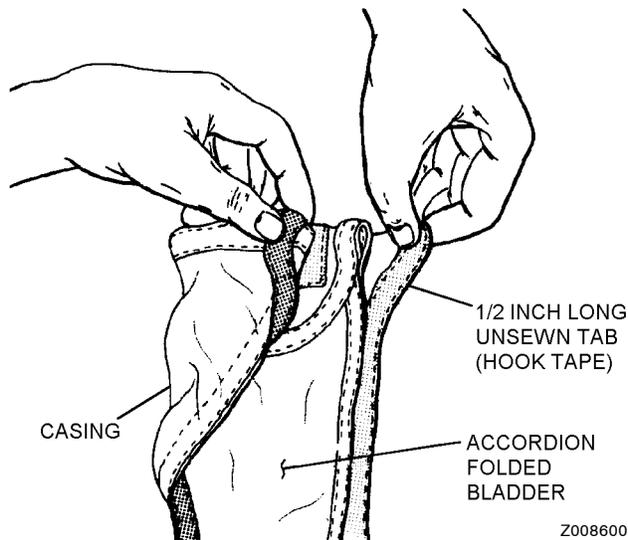
Step 7 - Para 26-86

Z0086007

NOTE

The unsewn 3/8 to 1/2 inch end tab of hook tape located on the front edge of the collar lobe casing shall be attached to the mating pile tape on the collar casing cover.

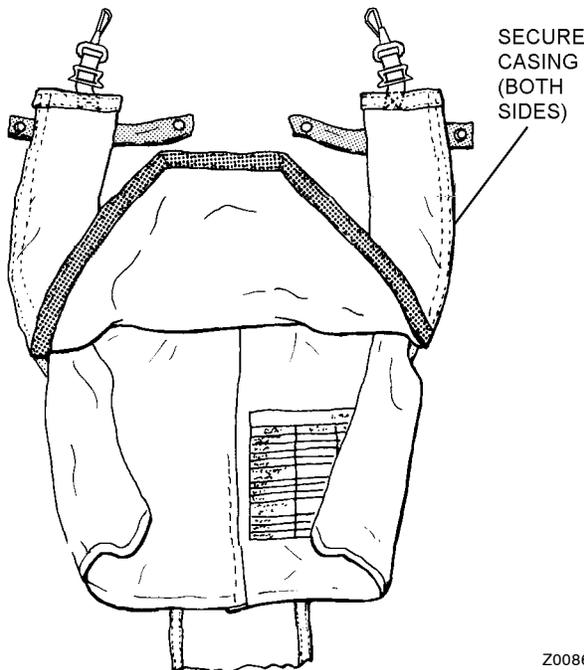
8. Close collar lobe section by securing the 3/8 to 1/2 inch unsewn portion of hook tape to pile tape casing cover.



Step 8 - Para 26-86

Z0086008

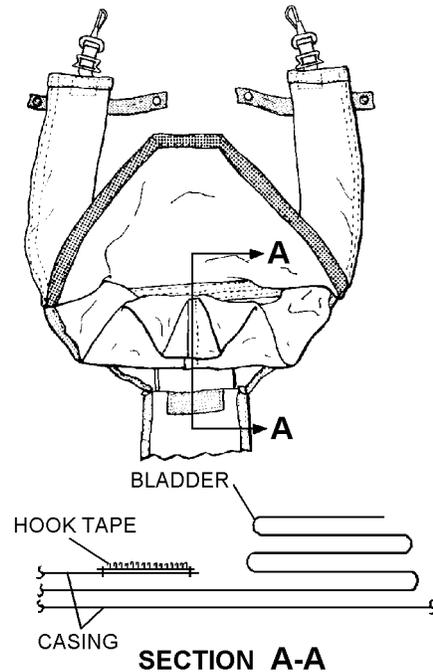
9. Secure hook and pile tape approximately 8 inches along casing cover edge, securing the accordion-folded bladder within casing cover.



Step 9 - Para 26-86

Z0086009

10. Accordion-fold bottom of collar lobe into collar casing.



SECTION A-A

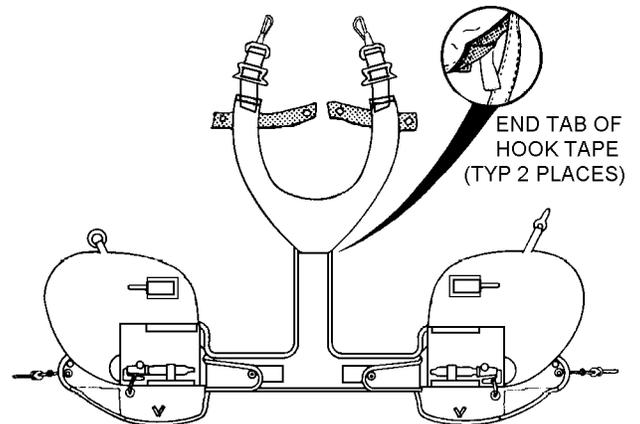
Step 10 - Para 26-86

Z0086010

NOTE

The unsewn 3/8 to 1/2 inch end tab of hook tape located on the rear edges of the collar lobe casing shall be attached to the mating pile tape on the collar casing cover.

11. Continue securing hook and pile tape along casing cover edge and casing lip, ending on unsewn end tabs of hook tape, completely enclosing collar lobe bladder within casing cover. Ensure all hook tape is engaged with pile tape and not exposed.



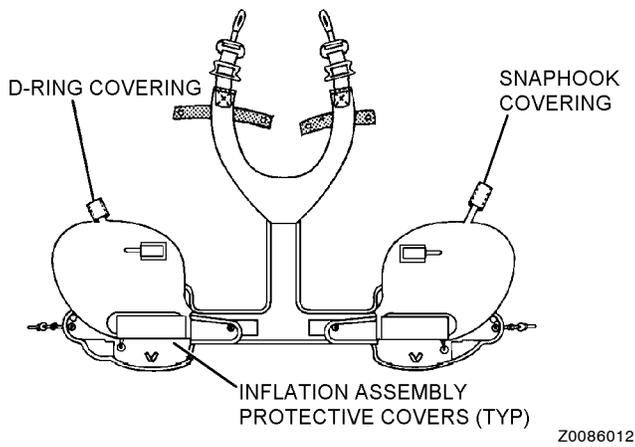
Step 11 - Para 26-86

Z0086011

WARNING

Do not use rubber bands to hold slip-on pockets on D-ring and snaphook fittings.

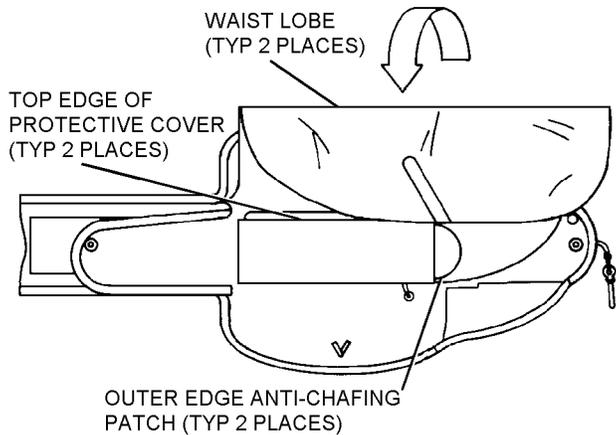
12. Insert snaphooks and D-ring into slip-on pockets. Close protective cover around inflation assembly and secure with hook and pile tape.



Step 12 - Para 26-86

Z0086012

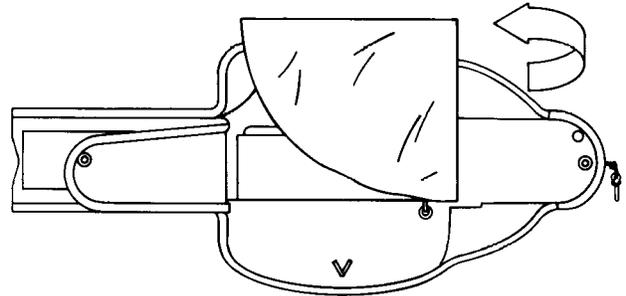
13. Fold waist lobes over to top edge of protective covers.



Step 13 - Para 26-86

Z0086013

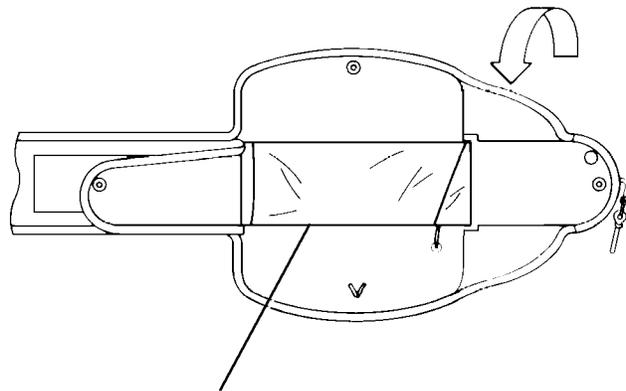
14. Fold waist lobes over to outboard edge of a chafing patch.



Z0086014

Step 14 - Para 26-86

15. Fold waist lobes over to bottom edge of protective covers.



BOTTOM EDGE OF PROTECTIVE COVERS (TYP 2 PLACES)

Z0086015

Step 15 - Para 26-86

NOTE

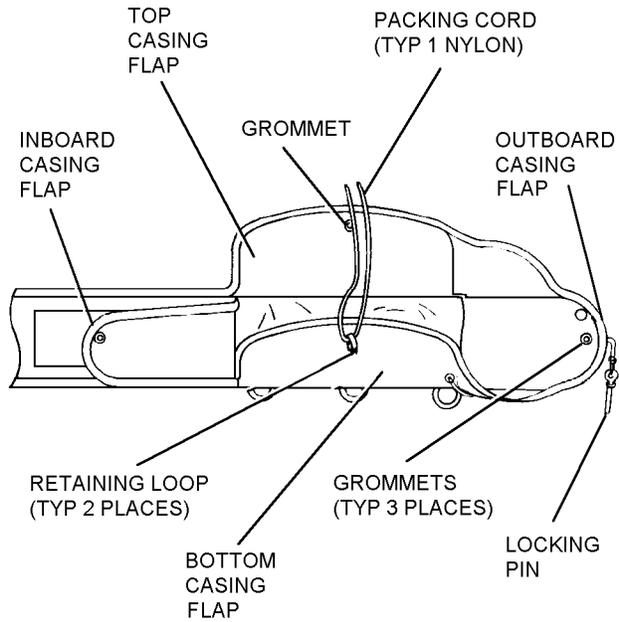
Packing cord shall be used to aid in closing life preserver casing.

16. Fold up bottom casing flap containing retaining loop. Insert an 8-inch length of Type I nylon cord through retaining loop (figure 26-16).

17. Pass ends of packing cord through grommet located in top casing flap (figure 26-17). Pull retaining loop through grommet.

18. Fold inboard casing flap over. Pass the packing cord through the grommet. Pull retaining loop through (figure 26-16).

19. Route locking pin under locking pin cover flap.



RIGHT LOBE SHOWN

10260016

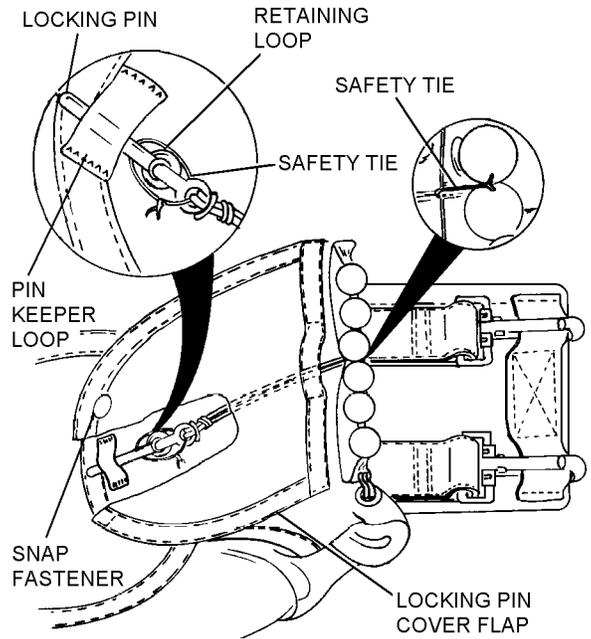
Figure 26-16. LPU-21C(V)1/P Packing Nomenclature

WARNING

To avoid possible injury when closing casing of right waist lobe, do not place palm of hand on waist closure snaphooks.

20. Fold outboard casing flap over. Pass packing cord through grommets and pull retaining loop through grommet far enough to accept locking pin. Insert locking pin through retaining loop and into pin keeper loop. Remove packing cord.

21. Safety-tie eye of locking pin to retaining loop with one turn of size A nylon thread, single. Safety-tie beaded inflation handle with one turn of size E nylon thread, single. Draw thread sufficiently to permit a 1/2 ± 1/8 inch space between middle beads and webbing on preserver. Tie ends of both safety ties with a surgeon's knot followed by a square knot.



Step 21 - Para 26-86

Z0086021

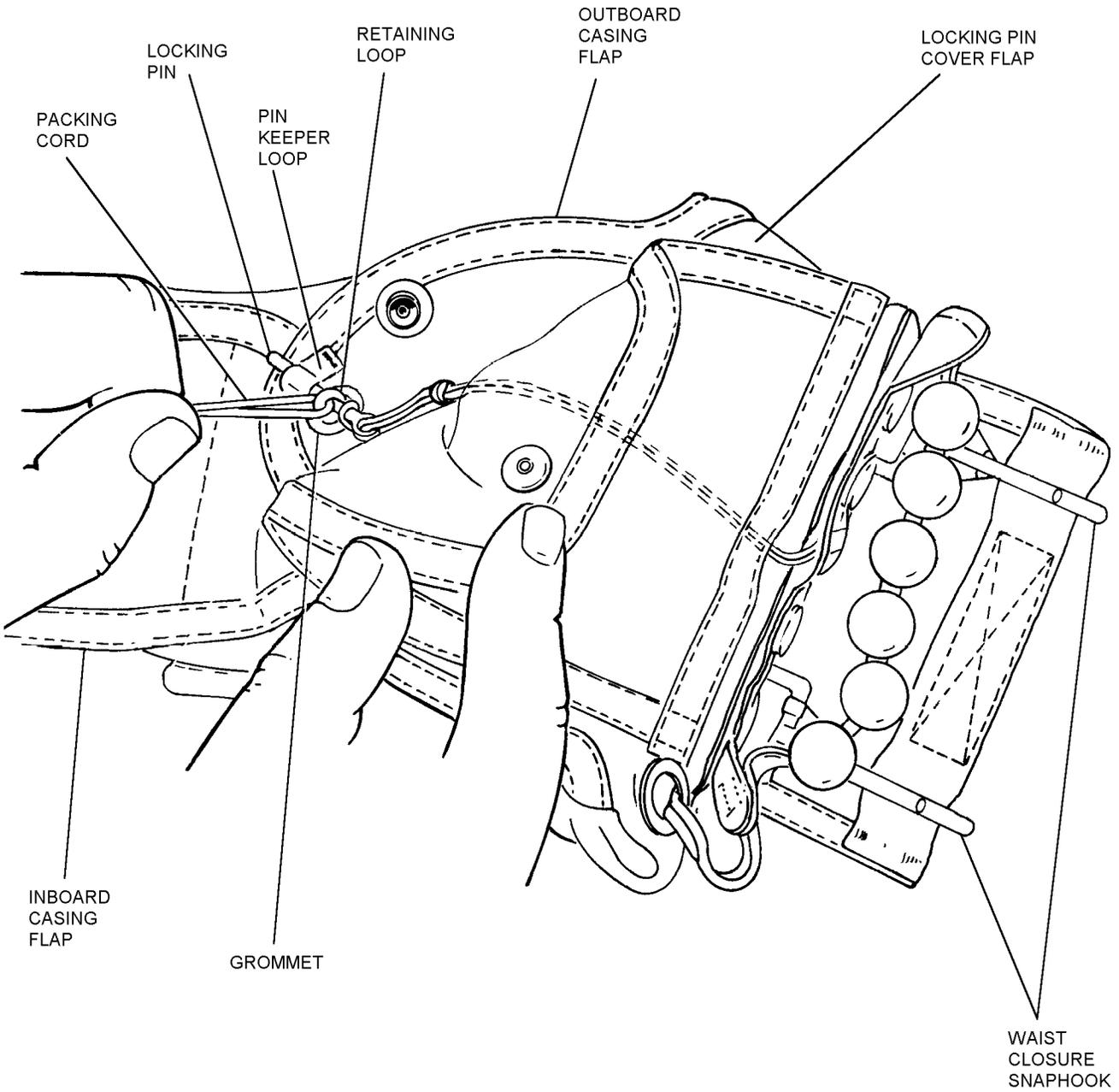
22. Close locking pin cover flap snap fastener.

NOTE

NAVAIR 13-1-6.5, Rescue and Survival Equipment, contains information on inspection and replacement of survival items.

23. When required, ensure that survival items have been inspected for expiration dates and damage.

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



RIGHT LOBE SHOWN

Figure 26-17. Packing LPU-21C(V)1/P Life Preserver

10260017

Section 26-4. Illustrated Parts Breakdown (IPB)

26-87. GENERAL.

26-88. This section lists and illustrates the assemblies and detail parts of the LPU-21C(V)1/P Life Preserver assembly.

26-89. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

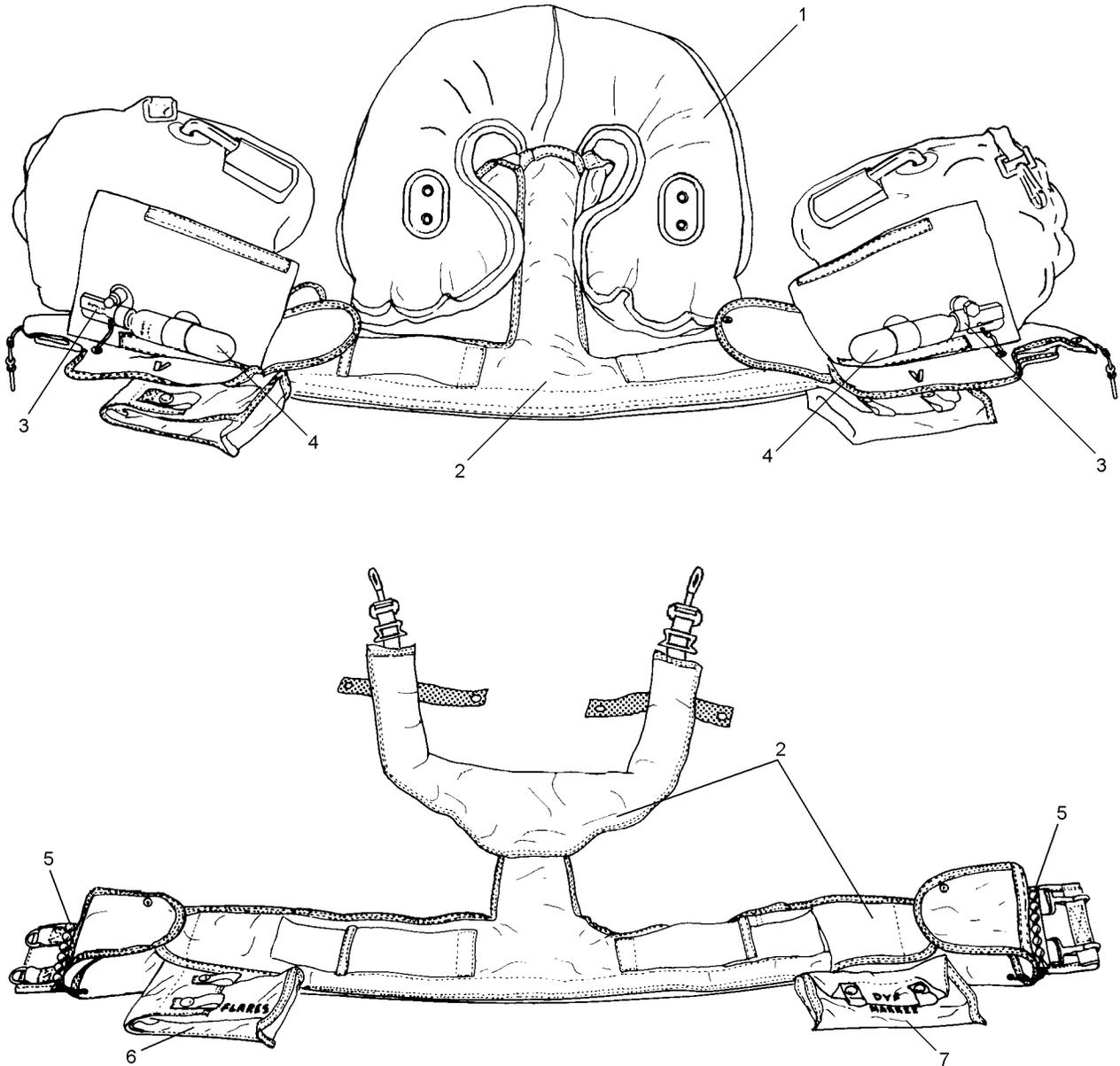


Figure 26-18. LPU-21C(V)1/P Life Preserver Assembly, Illustrated Parts Breakdown

10260018

Figure and Index Number	Part Number	Description	Units Per Assembly	Usable On Code
		1 2 3 4 5 6 7		
26-18	No Number	LPU-21C(V)1/P SERIES LIFE PRESERVER	REF	
-1	68A73H1-103 (NIIN 01-120-4894)	. INFLATABLE LIFE PRESERVER LPU-21C/P	1	
-2	1957AS104-1 (NIIN 01-120-4751)	. . CASING ASSEMBLY, LPU-21D/P	1	
	MIL-S-43770/1A	. . . SNAPHOOK	2	
-3	MIL-I-25370 (NIIN 00-561-0094)	. . INFLATION ASSEMBLY, Type II	2	
	105AS100-3	. . . GASKET, Top (30003) (Note 1)	2	
	105AS100-4	. . . GASKET, Bottom (30003) (Note 1)	2	
	105AS100-2	. . . GASKET, Seat Seal (30003) (Note 1)	2	
-4	MIL-C-25369 (NIIN 01-077-8773)	. . . CO ₂ CYLINDER, Type III, 35 Gram	2	
-5	9975AS121-11 (NIIN 00-120-4752)	. . . BEADED INFLATION HANDLE, Type I	2	
-6	68A73D3-61 (NIIN 00-118-6187)	. . FLARE POUCH ASSEMBLY (Note 2)	1	
-7	68A73D2-41 (NIIN 00-118-6186)	. . DYE MARKER POUCH ASSEMBLY (Note 2)	1	
Notes:		<p>1. Top, bottom, and seat seal gaskets are obtained from Valve Stem and Seat Seal Kit, P/N 105AS100-5, NIIN 00-498-6964, which contains two top, two bottom, and two seat seal gaskets.</p> <p>2. Optional equipment at the discretion of the Squadron Commander.</p>		

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code
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MIL-C-25369	26-18-4	PAGZZ
MIL-I-25370	26-18-3	PAGZZ
MIL-S-43770/1A	26-18-2	
105AS100-2	26-18-3	
105AS100-3	26-18-3	
105AS100-4	26-18-3	

Part Number	Figure and Index Number	SM&R Code
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1957AS102-1	26-18-1	PAOGG
1957AS104-1	26-18-2	PAGZZ
68A73D2-41	26-18-7	PAGZZ
68A73D3-61	26-18-6	PAGZZ
68A73H1-103	26-18-1	PAOGG
975AS121-11	26-18-5	PAGZZ