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CEINUM RA-KB00-018

1 BOAT CREW SURVIVAL VEST INSP/ACCPT

REFERENCES:

MPC [KB0096.0](#)

MPC [KB0107.0](#)

TOOLS/TEST EQUIPMENT:

NONE

EXPENDABLES:

Cord, Fibrous (Type I Nylon Cord), P/N: MIL-C-5040, CAGE: 81349, NIIN: 002402154

CONSUMABLES:

Marker, Tube Type (Permanent), P/N: 7520-00-973-1059, CAGE: 83421, NIIN: 009731059 (Or equivalent)

A INSPECT SURVIVAL VEST

1. Apply a locally generated serial number to the underside of the upper right chest pocket flap using permanent marker, P/N: 7520-00-973-1059, (Refer to [Figure 1](#)).
2. Inspect survival vest, (Refer to Step [2 A](#)).

B ATTACH SURVIVAL EQUIPMENT AND PYROTECHNICS

1. Inspect the following survival equipment and pyrotechnics, (Refer to MPC [KB0107.0](#) and MPC [KB0096.0](#)):
 - a. Signal whistle.
 - b. Strobe light.
 - c. PLB.
 - d. Signal mirror.
 - e. MK-79 personal distress kit.
 - f. MK-124 smoke and illumination signal.
 - g. Survival knife.

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2. Attach the following equipment to the webbing loop inside the corresponding survival vest pocket using a sear cut, 42 inch length of Type I nylon cord, P/N: MIL-C-5040, secured with a bowline and overhand knot on each end, (Refer to [Figure 1](#) and [Figure 2](#)):

NOTE: Finished length of line from knot to knot shall be 36 inches or greater.

- a. Signal whistle, (right front pocket).

NOTE: Sirius LED Strobe lights are furnished with a manufacturer installed 42 inch lanyard. The manufacturer installed lanyard is acceptable for use until no longer serviceable.

- b. Strobe light, (upper right chest pocket).

- (1) Replace lanyard using a sear cut, 42 inch length of Type I nylon cord secured with a bowline and overhand knot on each end, (If required).

- c. Personal Locator Beacon, (left pocket).
- d. MK-79 personal distress kit, (right side pocket).
- e. Signal mirror, (upper right chest pocket).

3. Attach survival knife sheath to the webbing strap located in the survival knife pocket, (Refer to [Figure 2](#)).

NOTE: Finished length of line from knot to knot shall be 36 inches or greater.

4. Attach survival knife to the webbing strap located in the survival knife pocket using a sear cut, 42 inch length of Type I nylon cord.

- a. Place survival knife into sheath.

5. Attach one MK-124 smoke and illumination signal to the survival vest.

- a. Attach a retention harness to the MK-124 using a sear cut, 72 inch length of Type I nylon cord with two surgeon's knots, (Refer to [Figure 3](#), [Figure 4](#), and [Figure 5](#)).

NOTE: Finished length of line from knot to knot shall be 36 inches or greater.

- b. Attach the opposite end of the lanyard to the webbing loop inside the right front pocket using a bowline with an overhand knot.

6. Document any discrepancies in the Boat Crew Survival Vest Maintenance Log.



2 SEMI-ANNUAL BOAT CREW SURVIVAL VEST INSPECTION

REFERENCES:

- MPC [KB0096.0](#)
- MPC [KB0107.0](#)

TOOLS/TEST EQUIPMENT:

NONE

EXPENDABLES:

- Vest, High Visibility (Size: Regular), P/N: 217-CG, CAGE: 64249, NIIN: 014325893 (If required)
- Vest, High Visibility (Size: Large), P/N: 217-LCG, CAGE: 64249, NIIN: 014325896 (If required)

CONSUMABLES:

- Thread, Orange TEX 70, P/N: T004, CAGE: 64249, NIIN: N/A (Or equivalent) (If required)

A INSPECT BOAT CREW SURVIVAL VEST

1. Check survival vest over its entire surface for the following:
 - a. Cuts or tears.
 - b. Seam separation.
 - c. Loose stitching.
 - d. Missing retro-reflective tape.

NOTE: Unit level repairs are limited to minor re-stitching of Velcro patches, and reattachment of pockets to mesh.
 - e. Perform minor repairs using bonded nylon thread, P/N: T004, (If required).
2. Check the attached D-ring for the following:
 - a. Corrosion.
 - b. Damage.
 - c. Security of attachment.
3. Inspect the waist buckle for proper operation.
4. Inspect required vest markings for legibility.
5. Remove boat crew survival vest from service if any above discrepancies are noted.
 - a. Send boat crew survival vest to repair facility, if repair cost does not exceed the replacement cost.
 - b. Replace boat crew survival vest, P/N: 217-CG, if repair cost exceeds the replace cost.
6. Inspect legibility of unit serial number marking on the underside of the upper right chest pocket flap.
 - a. Restore serial number marking, (If required).

B INSPECT SURVIVAL EQUIPMENT AND PYROTECHNICS

1. Inspect the following attached survival equipment and pyrotechnics, (Refer to MPC [KB0107.0](#) and MPC [KB0096.0](#)):
 - a. Signal whistle.
 - b. Strobe light.



- c. PLB.
 - d. Signal mirror.
 - e. MK-79 personal distress kit.
 - f. MK-124 smoke and illumination signal.
 - g. Survival knife.
2. Verify survival equipment is attached in the correct location, (Refer to Step [1 B 2.](#)).
 3. Inspect lanyards attaching all survival equipment to the survival vest for the following:
 - a. Cuts or frays.

NOTE: Finished length of line from knot to knot shall be 36 inches or greater.
 - b. Correct length.
 - c. Security of lanyard attachment to equipment and survival vest.
 4. Replace or re-tie lanyards as required, (Refer to Step [1 B](#)).
 5. Document any discrepancies in the Boat Crew Survival Vest Maintenance Log.



- 1 Signal Mirror
- 2 Strobe Light
- 3 MK-79 Kit
- 4 Signal Whistle
- 5 MK-124

- 6 Survival Knife
- 7 PLB



**Serial Number Placement
(Underside of pocket flap)**



Bowline with an Overhand Knot

BOAT CREW SURVIVAL VEST

Figure 1


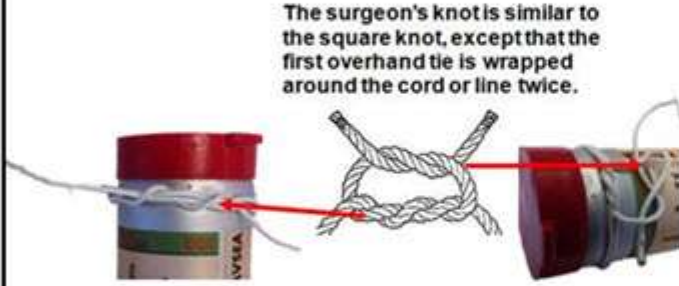

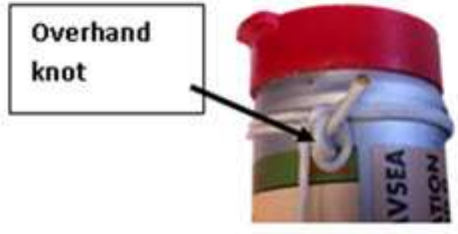





SURVIVAL EQUIPMENT

Figure 2



<p>1. Sear cut a piece of Type 1 Nylon cord to facilitate the retention harness tying process. (Cut approx. 72" long)</p>	<p>2. Wrap two turns of cord around the day end of the signal flare. (Leave approx. 2" of bitter end)</p> 
<p>3. Tie with a Surgeon's knot.</p> <p>The surgeon's knot is similar to the square knot, except that the first overhand tie is wrapped around the cord or line twice.</p> 	<p>4. Tighten the Surgeon's knot, keeping it flat and even.</p> 
<p>5. With the approx. 2" of bitter end, Tie an overhand knot to secure the Surgeon's. Sear cut this to prevent fraying</p> <p>Overhand knot</p> 	<p>6. Tighten down the overhand knot.</p> 

MK-124 RETENTION HARNESS STEPS 1-6

Figure 3



7. Route the remaining cord along the length of the signal to the opposite end.



8. Between the two raised beads of the night end, wrap two turns of cord around the signal.



9. Wrap the working end around both loops twice.



10. Take the bitter end and go under the line that stretched across the signal.



MK-124 RETENTION HARNESS STEPS 7-10

Figure 4



11. With the working end, go through the loop that was just created, making an overhand knot.



12. Pull tightly



13. Tie an overhand knot to secure the first knot.



14. Tighten down the overhand knot and secure signal to vest.



MK-124 RETENTION HARNESS STEPS 11-14

Figure 5

