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CEINUM RA-KB00-019

1 485-CG LIFE PRESERVER SURVIVAL VEST (LPSV) INSP/ACCEPT

REFERENCES:

MPC KB0096.0 MPC KB0107.0

TOOLS/TEST EQUIPMENT:

NONE

EXPENDABLES:

Rope, 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 PFD

- 1. Apply locally generated serial number to the PFD under the right pocket flap using permanent marker, P/N: 7520-00-973-1059, (Refer to Figure 1).
- Inspect PFD, (Refer to Step 2 A).
- 3. Function test PFD, (Refer to Item 4).

B ATTACH SURVIVAL EQUIPMENT AND PYROTECHNICS

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

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 Attach the following equipment to the webbing loop inside the corresponding PFD 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 for each item below shall be 36 inches or greater.

a. Signal whistle, (left 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, (right pocket).
 - (1) Replace lanyard using a sear cut, 42 inch length of Type I nylon cord secured with a bowline and an overhand knot on each end, (If required).
- c. PLB, (left pocket).
- d. MK-79 personal distress kit, (left pocket).
- e. Signal mirror, (left pocket).
- Attach survival knife sheath to the webbing strap located between the bladder cover and the vests mesh.
 - Snap the strap to the mesh.

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

- 4. Insert survival knife into the sheath.
 - a. Secure the knife to the mesh vest using a sear cut 42 inch length of Type I nylon cord secured with a bowline and an overhand knot on each end.
- 5. Attach one MK-124 smoke and Illumination signal to the PFD.
 - 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 for each item below shall be 36 inches or greater.

- b. Attach the opposite end of the lanyard to the webbing loop inside the right accessory pocket using a bowline with an overhand knot.
- 6. Document any discrepancies in the 485-CG LPSV Maintenance Log.



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2 MONTHLY 485-CG LPSV INFLATOR TABLET REPLACE

REFERENCES:

NONE

TOOLS/TEST EQUIPMENT:

Balance, Analytical (Scale), P/N: CS200, CAGE: 85973, NIIN: 015148863 (Or equivalent) (If required)

EXPENDABLES:

Cartridge, Compressed Gas, P/N: IC33SGL-00-000, CAGE: 63806, NIIN: 014872933 (If required) Chemical Pills (Inflator Tablet), P/N: 1701SPI-00-NAV, CAGE: 63806, NIIN: 014709908 Safety Pin, P/N: 470-1, CAGE: 64249, NIIN: N/A (If required)

CONSUMABLES:

NONE

A REPLACE INFLATOR TABLET

- 1. Lay out the PFD in a clean area, free of obstructions.
- Inspect CO2 cylinder, (Refer to Figure 6).
 - a. Open inflator cover flap.
 - Remove CO2 cylinder from inflator assembly.
 - c. Inspect CO2 cylinder primer for punctures.

CAUTION

TO PREVENT ACCIDENTAL INFLATION OF THE PFD, DO NOT REINSTALL CO2 CYLINDER UNTIL THE INFLATOR TABLET REPLACEMENT IS COMPLETE.

- (1) Replace CO2 cylinder, P/N: IC33SGL-00-000, if primer is punctured.
 - (a) Weigh replacement cylinder using a scale, prior to installation.
 - (b) Discard cylinder if it is not within 2 grams of the cylinder's stamped weight.
- 3. Replace inflator tablet, P/N: 1701SPI-00-NAV, (Refer to Figure 6).
 - a. Open the inflator cocking lever to the fully open (up) position.
 - b. Remove inflator tablet from the tablet case.
 - Install new inflator tablet into the tablet case.
 - d. Move the inflator cocking lever to the fully closed (down) position to lock the tablet into the case.
- Re-arm PFD.
 - a. Route the CO2 cylinder through the web retaining loop into the auto-inflator housing.

CAUTION

OVERTIGHTENING THE CO2 CYLINDER WILL CAUSE DAMAGE TO THE INTERNAL GASKET. INSTALL CO2 CYLINDER HAND TIGHT.

(1) Tighten CO2 cylinder hand tight.



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- 5. Check auto-inflator armed indicators, (Refer to Figure 7).
 - a. Green safety pin installed at arming pin indicator, location "A".
 - (1) Install green safety pin, P/N: 470-1, into the pin slot if missing.
 - b. Green indicator present at inflator tablet indicator, location "B".
 - (1) Install inflator tablet if indicator shows red.
 - c. Green indicator present at cylinder seating indicator, location "C".
 - (1) Replace CO2 cylinder, if indicator shows red.
 - (a) Weigh replacement cylinder using a scale prior to installation.
 - (b) Discard cylinder if it is not within 2 grams of the cylinder's stamped weight.
- 6. Re-pack PFD.
 - a. Snap the beaded manual inflation lever to the PFD.
 - b. Fold the left and right lobes of the bladder cover under and between the vests mesh.
 - c. Snap lobes in place.
 - d. Snap the back portion of the bladder cover in place.
 - e. Close inflator cover flap.
- 7. Document any discrepancies in the 485-CG LPSV Maintenance Log.



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3 SEMI ANNUAL 485-CG LPSV INSP/LEAK TEST

REFERENCES:

MPC KB0096.0 MPC KB0107.0

TOOLS/TEST EQUIPMENT:

Balance, Analytical (Scale), P/N: CS200, CAGE: 85973, NIIN: 015148863 (Or equivalent) (If required)

EXPENDABLES:

Cartridge, Compressed Gas, P/N: IC33SGL-00-000, CAGE: 63806, NIIN: 014872933 (If required)

Life Preserver Survival Vest (Selected) (If required)

Regular, P/N: 485-CG, CAGE: 64249, NIIN: 01HS21151

Extra Large, P/N: 485-XLCG, CAGE: 64249, NIIN: 01HS21152

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

Safety Pin, P/N: 470-1, CAGE: 64249, NIIN: N/A (If required)

CONSUMABLES:

Leak Test Compound, P/N: MIL-PRF-25567E, CAGE: 81349, NIIN: 006211820 (Or equivalent) Pad, Scouring, P/N: 7920-00-753-5242, CAGE: 80244, NIIN: 007535242 (Or equivalent) (If required)

A INSPECT PFD

WARNING

VARIOUS STEPS IN THIS PROCEDURE EMPLOY ITEMS ON THE HAZARDOUS MATERIALS LIST. BEFORE EXECUTING THIS MPC, REFER TO THE APPLICABLE MSDS/SDS FOR FULL SAFETY AND HANDLING PROCEDURES.

- 1. Lay out the PFD in a clean area, free of obstructions.
- 2. Inspect PFD for the following:
 - a. Check PFD over its entire surface for the following:
 - (1) Cuts or tears.
 - (2) Seam separation.
 - (3) Loose stitching.
 - b. Check the attached D-ring for the following:
 - (1) Corrosion.
 - (2) Damage.
 - (3) Security of attachment.
 - c. Check waist belt/adjustment straps for proper operation.
 - d. Inspect required PFD markings for legibility.
 - e. Inspect reflective tape for the following:
 - (1) Wear.
 - (2) Adhesion to PFD.
 - f. Remove PFD from service if any above items are noted.



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- (1) Send PFD to repair facility, if repair cost does not exceed the replacement cost.
- (2) Replace PFD, P/N: 485-CG, or, P/N: 485-XLCG, if repair is cost exceeds the replace cost.
- 3. Inspect unit serial number marking located on the right pocket flap.
 - a. Restore serial number marking, (If required).
- 4. Open inflator cover flap.
- 5. Remove CO2 cylinder from inflator assembly.
- 6. Inspect inflator assembly for the following:
 - a. Corrosion.
 - (1) Remove corrosion using a scouring pad, P/N: 7920-00-753-5242.
 - b. Cut or frayed manual inflation lanyard.
 - Presence of o-ring located in CO2 cylinder port.

NOTE: Check for proper operation by exercising the manual inflation lever.

- d. Proper operation of CO2 cylinder piercing pin.
- e. Remove PFD from service if any above discrepancies are noted.
 - Send PFD to repair facility, if repair cost does not exceed the replacement cost.
 - (2) Replace PFD if repair is cost exceeds the replace cost.

B LEAK TEST PFD

NOTE: If functional test is due, perform the function test prior to conducting the leak test.

1. Manually inflate PFD, (Refer to Figure 8).

NOTE: There are three snaps, one on each side, and one on the back.

- Unsnap the bladder cover.
- b. Unfold the bladder cover.
- c. Unfold inflation bladders on the left and right sides of the PFD.
- d. Inflate PFD through the oral inflation tube until firm.

WARNING

AVOID EYE CONTACT, INHALATION, AND PROLONGED SKIN CONTACT WITH LEAK TEST COMPOUND. USE IN A WELL VENTILATED AREA. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.

2. Apply leak test compound, P/N: MIL-PRF-25567E, to the inflator cap nut and between the inflator and bladder.



CAUTION

DO NOT SUBMERGE THE PFD IN WATER TO CHECK FOR LEAKS.

NOTE: If leaks are present, the leaking area will begin bubbling or foaming within 5 seconds and continues for about 2 minutes.

- 3. Inspect PFD for signs of leakage.
 - Remove PFD from service if leakage is detected at the inflator cap nut area or between inflator and bladder.
 - (1) Send PFD to repair facility, if repair cost does not exceed the replacement cost.
 - (2) Replace PFD if repair is cost exceeds the replace cost.

NOTE: The PFD must be set aside, undisturbed, for 2 hours before proceeding.

- 4. Inspect PFD for signs of leakage or pressure loss after 2 hours.
 - a. Remove PFD from service if signs of leakage or pressure loss are evident.
 - Send PFD to repair facility, if repair cost does not exceed the replacement cost.
 - (2) Replace PFD if repair cost exceeds the replacement cost.

CAUTION

TO PREVENT DAMAGE TO THE PFD, DO NOT WRING OR TWIST IT WHILE DEFLATING.

- 5. Deflate PFD through oral inflation tube.
 - a. Gently squeeze the bladder until all air is expelled.
- 6. Route the CO2 cylinder through the web retaining loop into the cylinder port.

CAUTION

OVERTIGHTENING THE CO2 CYLINDER WILL CAUSE DAMAGE TO THE INTERNAL GASKET. INSTALL CO2 CYLINDER HAND TIGHT.

- 7. Tighten CO2 cylinder hand-tight.
- 8. Check auto-inflator armed indicators, (Refer to Figure 7).
 - a. Green safety pin installed at arming pin indicator, location "A".
 - (1) Install green safety pin, P/N: 470-1, into the pin slot if missing.
 - b. Green indicator present at inflator tablet indicator, location "B".
 - (1) Install inflator tablet if indicator shows red.
 - c. Green indicator present at cylinder seating indicator, location "C".
 - (1) Replace CO2 cylinder, P/N: IC33SGL-00-000, if indicator shows red.
 - (a) Weigh replacement cylinder using a scale prior to installation.
 - (b) Discard cylinder if it is not within 2 grams of the cylinder's stamped weight.



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- 9. Pack PFD.
 - a. Snap the beaded manual inflation lever to the PFD.
 - b. Fold left and right lobes of the bladder cover under and between the vest mesh.
 - c. Snap lobes into place.
 - d. Snap the back portion of the bladder cover in place.
 - e. Close inflator cover flap.

C 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).
- 3. Inspect lanyards attaching all survival equipment to the PFD 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 PFD.
- 4. Replace or re-tie lanyards, as required, (Refer to Step 1 B).
- 5. Store, segregate, or dispose of hazardous materials IAW all applicable local, state, and federal regulations.
- 6. Document any discrepancies in the 485-CG LPSV Maintenance Log.



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4 ANNUAL 485-CG LPSV FUNCTION TEST

REFERENCES:

NONE

TOOLS/TEST EQUIPMENT:

Balance, Analytical (Scale), P/N: CS200, CAGE: 85973, NIIN: 015148863 (Or equivalent)

Stopwatch, P/N; LCD-200, CAGE; 86582, NIIN; 011064303 (Or equivalent)

EXPENDABLES:

Cartridge, Compressed Gas, P/N: IC33SGL-00-000, CAGE: 63806, NIIN: 014872933

Life Preserver Survival Vest (selected) (If required)

Regular, P/N: 485-CG, CAGE: 64249, NIIN: 01HS21151

Extra Large, P/N: 485-XLCG, CAGE: 64249, NIIN: 01HS21152

Safety Pin, Green, P/N: 470-1, CAGE: 64249, NIIN: N/A

CONSUMABLES:

NONE

A REPLACE

- 1. Lay out the 485-CG LPSV in a clean area, free of obstructions.
- Inflate the PFD by pulling the beaded inflation lanyard.
- Verify PFD inflates to design shape within 30 seconds using a stopwatch.
 - a. Check CO2 cylinder for condition, proper installation if PFD fails to inflate correctly within 30 seconds.
 - (1) Function test PFD, (Refer to Steps 4 A 1. through 4 A 3.).
 - b. Remove PFD from service if cause of failure cannot be determined.
 - (1) Send PFD to repair facility, if repair cost does not exceed the replacement cost.
 - (2) Replace PFD, P/N: 485-CG, or, P/N: 485-XLCG, if repair is cost exceeds the replace cost.
- 4. Leak test inflated PFD, (Refer to Step 3 B).
- 5. Deflate the PFD through the oral inflation tube.

CAUTION

TO PREVENT DAMAGE TO THE 485-CG LPSV, DO NOT WRING OR TWIST IT WHILE DEFLATING.

- a. Gently squeeze the inflated bladder until all air is expelled.
- Re-arm PFD.
 - a. Move the manual inflation cocking lever up fully into the inflator housing.
 - b. Replace green safety pin, P/N: 470-1, at location "A", (Refer to Figure 7).
 - c. Replace CO2 cylinder, P/N: IC33SGL-00-000.
 - (1) Weigh replacement cylinder using a scale prior to installation.
 - (2) Discard cylinder if it is not within 2 grams of the cylinder's stamped weight.
 - d. Route the CO2 cylinder through the web retaining loop into the cylinder port.



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CAUTION

OVERTIGHTENING THE CO2 CYLINDER WILL CAUSE DAMAGE TO THE INTERNAL GASKET. INSTALL CYLINDER HAND TIGHT.

- (1) Tighten CO2 cylinder into inflator hand tight.
- 7. Check auto-inflator armed indicators, (Refer to Figure 7).
 - a. Green safety pin installed at arming pin indicator, location "A".
 - (1) Install green safety pin into the pin slot if missing.
 - b. Green indicator present at inflator tablet indicator, location "B".
 - (1) Install inflator tablet if indicator shows red.
 - c. Green indicator present at cylinder seating indicator, location "C".
 - (1) Replace CO2 cylinder if indicator shows red.
 - (a) Weigh replacement cylinder using a scale prior to installation.
 - (b) Discard cylinder if it is not within 2 grams of the cylinder's stamped weight.
- 8. Perform PFD leak test, (Refer to Step 3 B).
- 9. Document any discrepancies in the 485-CG LPSV Maintenance Log.

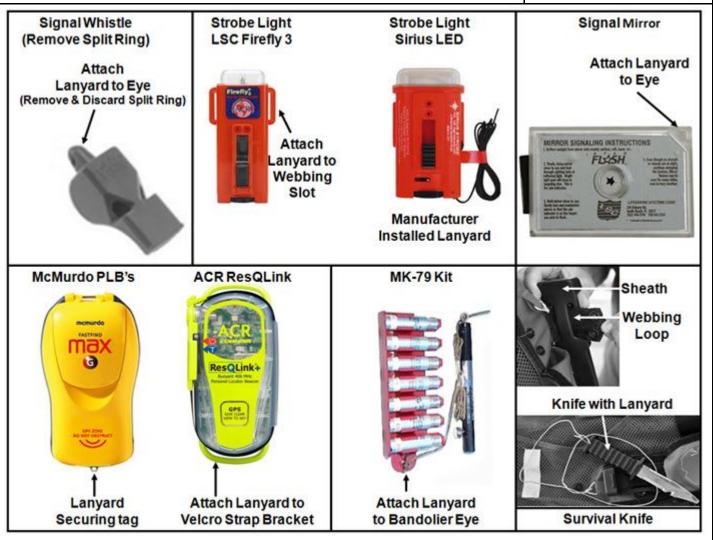




485-CG LPSV Figure 1



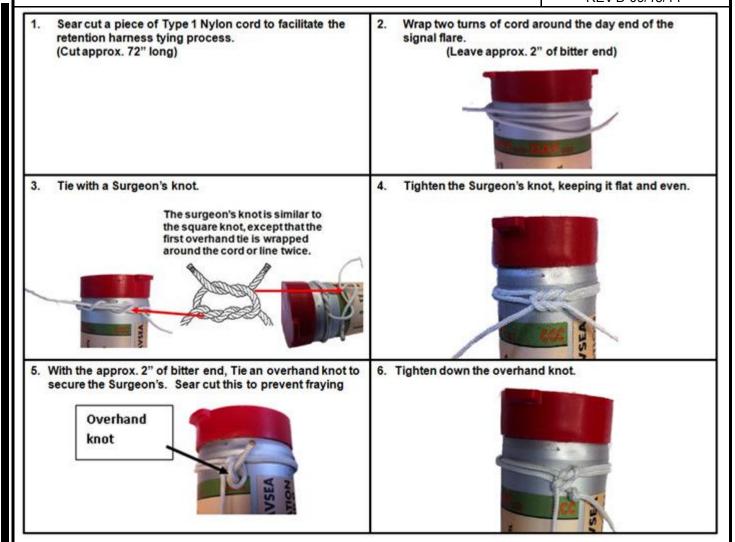
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SURVIVAL EQUIPMENT Figure 2



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MK-124 RETENTION HARNESS STEPS 1-6 Figure 3



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



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.



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



MK-124 RETENTION HARNESS STEPS 7-10 Figure 4



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





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



 Tighten down the overhand knot and secure signal to vest.



MK-124 RETENTION HARNESS STEPS 11-14 Figure 5



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1. Open inflator cover flap.



Remove CO2 Cylinder from inflator.



Check CO2 Cylinder for punctures.



 Open the inflator cocking lever to the full open position, you will hear and audible click.



 Insert a fresh inflator tablet into the pill housing. Press the cocking lever to the full open position to insert the pill.



- Close cocking lever to the fully closed position.
- Re-install CO2 Cylinder into inflator.

485-CG CO2 CYLINDER/INFLATOR TABLET REPLACEMENT Figure 6



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CO2 cylinder

Arming pin indicator Location "A"



Cylinder seat indicator Location "C"

Inflator tablet indicator Location "B"

INFLATOR ARMED INDICATORS
Figure 7



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MANUAL INFLATION Figure 8

