



# OWNER'S MANUAL

## PRO VEST

### #489

#### **WARNINGS & CAUTIONS**

The Pro-Vest should not be worn by anyone under 110 lbs. or under 14 years of age.

When orally inflated, do not inflate with the CO2 inflation system. Prior oral inflation and subsequent CO2 inflation will cause damaging high pressure in the bladder.

Use only 16-gram CO2 cylinders (LSC #540) or equal. Inspect the seal on the threaded end of the cylinders prior to installation. Discard any cylinder showing any sign of puncture. Ensure that the CO2 inflation valve lever arms are in the up (armed) position prior to cylinder installation. Check for proper routing of the CO2 inflation lanyards.

The Pro-Vest must be visually inspected prior to use and functional tested per inspection procedures.

Do not allow the vest to become excessively soiled. Rinse the vest after exposure to salt or chlorinated water with fresh tap water.

Do not enter the water from excessive heights with the bladder inflated. This could cause personal injury and/or damage to the vest.

Do not inflate the bladder while below deck on a vessel or in the cabin of an aircraft. The additional buoyancy and bulk could restrict your egress.

#### **DESCRIPTION**

The Pro-Vest is a compact, lightweight, comfortable to wear inflatable survival vest. It provides flotation characteristics normally found in large, bulky, rigid-type flotation devices. It produces a positive righting moment (Face-up) with 35 lbs. of buoyancy. It incorporates a unique single action dual chamber design. Should either chamber develop a leak, oral inflation of the other chamber will provide full (35 lbs.) buoyancy. The floating center bulkhead accomplishes this. The flotation bladder is protected in the folded position by high abrasion and puncture resistant fabric cover. The vest is equipped with two (2) survival equipment pockets. The right pocket is designed to hold a survival radio (#373) in the front section; aft section is available for misc. survival items. The left pocket is designed for the Heeds III (#575). It also contains a Buddy-Line with snap hook. The Survival Knife (#358) will also fit in the pocket.

#### **USING YOUR PRO-VEST**

To wear the Pro-Vest, simply put it on the same way you would a coat. Then zip up the front zipper of the vest. Close the front buckle, adjust the waist belt to fit snugly by pulling on the two side straps and tuck the excess belt under. Excessive belt length can be cut from the ends; provided the same or similar sized persons will wear the vest.

Check the CO2 cylinders to ensure that they have not been punctured.

To inflate the vest, pull rapidly down on the beaded inflation lanyard. This action punctures both CO2 cylinders at once. The released gas immediately inflates the bladder. The outboard cylinder inflates the front chamber of the bladder while the other inflates the rear chamber. Both cylinders will require replacement after inflation.

Should a bladder not fully inflate, open the left bladder cover by hand.

Remove the oral tube from the cover. Turn the oral tube lock to the unlocked position. Depress the end of the oral tube and blow air into the bladder. Either oral tube can be used for oral inflation. After inflation, screw the oral lock back into the locked position. If pressure cannot be maintained, try oral inflation with the other oral tube.

#### **FACTORY SUPPORT**

Contact LSC for inspections and services, LSC will inspect and test your inflatable vest, LSC service #000-ID16.

#### **REPLACEMENT PARTS**

#489-2	MANUAL INFLATOR w/LANYARDS	#HI015	PIN, SAFETY, RED
#540	CO2 CYLINDER, 16 GRAMS		

#### **WARRANTY**

LSC products are warranted to the first consumer purchaser to be free from defects in material or workmanship for a period of twelve (12) months. Please contact LSC for our complete Warranty information and Policies, or visit our website.

#### **NOTE**

Before placing in service, and thereafter once a year, LSC strongly recommends an in-water functional test of the vest, to familiarize the user with the flotation characteristics and to ensure proper functioning of the CO2 inflation mechanism. The test should be performed in the shallow end of a pool by actuating the CO2 inflation lanyard.

#### **INSPECTIONS**

While LSC has designed and manufactured the inflatable to be as reliable as possible, periodic testing and inspection are necessary to ensure functional reliability. The frequency of the inspection should be determined by the frequency and condition of use. However, the inspection shall not exceed six (6) months. Record inspections on the record inspection patch located on the underside of the right bladder.

#### **VISUAL INSPECTION**

Open the right bladder and CO2 cover, remove the CO2 cylinders and check the bottom for pin punctures in the seal of the cylinders. Discard the CO2 cylinder if punctured and install new cylinders fully (1/4 turn after seal contact).

Ensure that the inflator levers are in the up (armed) position.

Inspect the entire vest, fabric, webbing, hardware and other components for damage.

#### **FUNCTIONAL & LEAK INSPECTION**

1. Pull beaded lanyard to inflate the bladder. Both sides of the bladder should fully deploy from the cover. Deflate the cell by depressing both oral inflation tube valves and vacuuming or squeezing the CO2 out.
2. Inflate the bladder through the inboard oral tube (aft bladder chamber) with a low-pressure air source (2 psi max.) or by oral inflation. Depress the outboard oral tube valve to allow trapped air to escape. CAUTION: DO NOT OVER INFLATE. Damage to the bladder will result from overpressure. After four (4) hours, recheck the bladder for pressure. If the bladder has lost pressure recheck for leaks and replace the bladder if required. Prior to deflation, depress the outboard tube to check for leakage past the internal bulkhead. Leakage of the internal bulkhead will require replacement. Deflate the bladder.
3. Inflate and leak test the bladder through the outboard oral tube using the same procedure as in step 2.
4. After deflation relock the oral tube valves. Reinstall charged CO2 cylinders, refold the bladder and close the cover.

#### **LEAK INSPECTION**

Complete steps 2, 3 & 4 as above.

(1)



(2)



(3)



(4)



# #489 Pro Vest

## Repacking Instructions

1. Lay the Pro Vest on a clean, flat surface as shown in Figure (1). Prior to repacking the vest perform a visual inspection per the instructions in the owner's manual.
2. Deflate the cell. Open both oral tube valves by manually depressing the valves. While depressing both valves, slowly squeeze or vacuum the air out of both air chambers.
3. After evacuating the air from both chambers, relock both oral valves in the closed/sealed position. Place the oral tube ends in the keeper pocket located on the front of the cell for stowage.
4. Remove and discard the spent CO<sub>2</sub> cylinders. Prior to installing new, charged CO<sub>2</sub> cylinders (16 gram), ensure that the inflator levers are in the up (armed) position. Replace missing inflation lever lock-pins (LSC#H015). Install the new cylinders and close the CO<sub>2</sub> cylinder cover.
5. Fold the cell along the original fold/crease lines; refer to Figure (2). All folds are made towards the underside of the cell. For each side of the bladder perform the two side folds first, and then follow with the bottom fold.
6. Tuck the folded cell under the cover gussets and below the hook & loop tape that is along the perimeter of the folded cell. See Figure (3).
7. Attach the pull lanyard for the inflators to the retainer snap located at the bottom of the vest and below the inflators. See Figure (3).
8. Close the cover by folding the front cover panels over. Align the mating hook & loop tape along the perimeter of the cover and secure.
9. Fold the collar portion of the vest towards the back and secure to the vest using the two snaps located on the vest back. The vest is now ready for wear or stowage.

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