



# OWNER'S MANUAL

## PRO LITE VEST

### #481 (Manual)

#### **WARNINGS & CAUTIONS**

The USCG PRO LITE VEST should not be worn by anyone under 110 lbs. or under 14 years of age.

If orally inflated, **DO NOT ACTIVATE THE CO2 CYLINDER.** Prior oral inflation will lead to excessive pressure, which may burst the flotation cell. Only use a 33-gram CO2 cylinder.

When replacing the CO2 cylinder, ensure that the inflator lever is in the up (armed) position. Failure to do so may cause the life preserver **NOT TO INFLATE OR TO INFLATE WHEN REPLACING CO2 CYLINDER.** The PRO LITE VEST must be visually inspected prior to use, and functionally tested per inspection procedures.

Should the PRO LITE VEST be immersed in either salt or chlorinated water, the vest **MUST BE FRESH WATER WASHED.** Failure to fresh water wash the vest may cause corrosion to the CO2 cylinder, firing arm, and firing pin, as well as damage to the fabric coatings.

**DO NOT** inflate the PRO LITE VEST prior to jumping into the water, if you are more than three to four feet above the water. **NEVER DIVE HEAD FIRST WITH THE VEST INFLATED.** This could cause severe personal injuries and damage the life vest.

**DO NOT** inflate the PRO LITE VEST below deck in a boat or ship as you may be trapped under water in a cabin, which has been flooded.

#### **DESCRIPTION**

The PRO LITE VEST #481 is a compact, light weight, and comfortable to wear, manually activated CO2 inflatable life vest which is designed to provide flotation characteristics normally found in large, bulky, rigid-type life preservers. It produces a positive righting moment (face up) with 35 lbs. of buoyancy. The flotation cell is a low profile design. The cell is simple to repacked by deflating, folding, and securing hook and loop tape and two snaps. The vest is equipped a buddy line with toggle, located in a pocket, inside of the wear's right lower side of the flotation cell cover and a D-ring for attachment of a tether. The vest is bright red/orange with three strips of retro reflective tape. When inflated the bladder has three additional pieces of retro reflective tape, a 3" patch of loop tape for strobe light, EPIRB or other equipment attachment and a waterproof whistle for aid in detection by rescue personnel.

#### **USING YOUR VEST**

Open the fabric cover on the lower left side by carefully pulling hook and loop tape apart. Open the anti-chaffing sleeve, ensure the inflation lever (#2) is in the full up position (armed) and the green safety pin (#4) is installed. Unscrew the CO2 cylinder (#1) and check to ensure that it has not been punctured. If punctured discard and replace. Replace cylinder into the inflator housing and tighten. Ensure the beaded inflation lanyard (#3) is snapped to the vest. Close anti-chaffing sleeve and outside cover.

To don the PRO LITE VEST, simply put the vest on the same way you would a coat. Close the front buckle and adjust the waist belt to fit snugly by pulling the two side straps to the rear. Tuck the excess belt under the waist belt. Operating instructions are located on the back cover of the left side. Should you have any questions concerning the use of your vest please do not hesitate to call LSC.

#### **INSPECTION**

LSC has designed and manufactured the inflatable to be as reliable as possible, periodic testing and inspection are necessary to ensure functional reliability. Prior to placing vest into service, perform **visual inspection** on vest and CO2 cylinder. Additionally, a leak inspection of the vest should be performed, at minimum, every six months.

#### **VISUAL INSPECTION**

##### **(Performed prior to each use)**

Open the fabric cover on the lower left side by carefully pulling hook and loop tape apart. Open the CO2 cover and ensure that the inflator lever (2) is in the full up, armed position, and the green safety pin (4) is installed. Remove the CO2 cylinder (#1) and check the bottom for pin punctures in the seal of the cylinder. Discard the CO2 cylinder if punctured and install new cylinder fully into the inflator housing. Ensure the beaded inflation lanyard is snapped to the vest. Close anti-chaffing sleeve and outside cover.

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

#### **NOTE**

For part & indication identification, refer to the illustration on Page two.

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

**LEAK INSPECTION**  
**(Performed Semiannually)**

1. Inflate the bladder through the oral tube with a low-pressure clean dry air source (2 psi max.) or by oral inflation. **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, re-inflate and locate source of leak. Repair problem or remove vest from service. Deflate the vest.
2. After deflation, replace the Cylinder Seat Gasket and reinstall charged CO2 cylinder (#1) using the steps contained in this manual. Close anti-chaffing sleeve and outside cover. Complete step listed in Visual inspection.

**(Performed Annually)**

1. Pull beaded lanyard to inflate the vest. Both sides of the bladder should fully deploy. Deflate the cell by depressing the top of the oral tube dust cover into the oral tube. Place the firing lever (#2) in the full-up (armed) position and insert a new green safety pin (#4).
2. Complete steps 1 & 2 in Leak Inspection above.

**FACTORY SUPPORT**

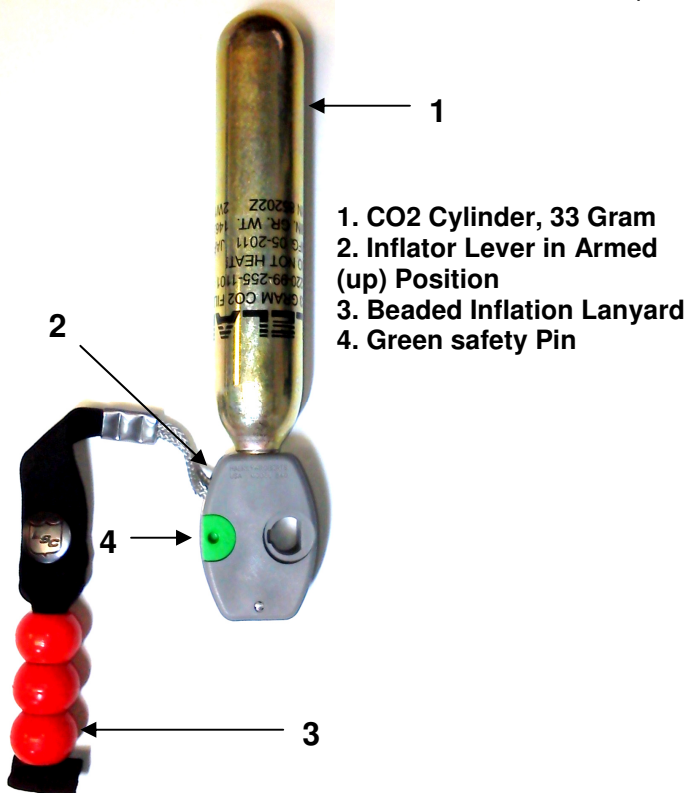
Contact LSC for inspections and services, LSC will inspect and test your inflatable vest, LSC service #000-IS33.

**REPLACEMENT PARTS**

#485-ML	MANUAL INFLATOR KIT	#HI017	PIN, SAFETY, GREEN
#484	CO2 CYLINDER, 33 GRAMS	#481-P	POCKET f/ #481 WAIST BELT (Optional)
#484-S	CYLINDER SEAT GASKET		

**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.



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