



# OWNER'S MANUAL

## USCG PRO LITE VEST

### #481-CG (Automatic)

#### **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 armed auto-inflator indicators A thru D shown on Page 2 are visible. Failure to do so will cause the life preserver NOT TO INFLATE OR INFLATE WHEN REPLACING CO2 CYLINDER. Replacement of the inflator tablet (#5) is suggested whenever a CO2 cylinder is replaced.

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 USCG PRO LITE VEST #481-CG is a compact, light weight, and comfortable to wear, manually activated CO2 inflatable life vest with an automatic backup inflator 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 automatic backup inflator will activate the CO2 bottle after approximately 2 seconds of immersion should the user fail to activate the vest manually. 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. The vest has USCG markings on back and the new 3-D USCG patches on front cover. 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.

#### **NOTE**

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

*Lifesaving Systems Corp.*

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#### **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; unscrew the CO2 cylinder (#3) and check to ensure that it has not been punctured. If punctured discard and replace. Replace cylinder into the inflator housing and check the CO2 seating window (#2) for a green indication after cylinder installation. Red indicates a improperly seated CO2 cylinder. Additionally, ensure armed auto-inflator indications A thru D are visible. Ensure the beaded inflation lanyard 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 or its auto-inflator, please do not hesitate to call LSC.

The primary means to inflate the life vest is manually, using the beaded inflation lanyard (#1). To inflate manually, jerk the beaded lanyard (located on your left side) down and the cell will inflate. The automatic backup inflator is a backup device, which should inflate the vest. The automatic backup inflator will activate the CO2 bottle after approximately 2 seconds of immersion. Should the vest not inflate either manually or automatically, the wearer should inflate the vest using the oral inflation tube. To orally inflate the vest, simply open the cover of the vest, pull the oral inflation tube out located on your right lobe, take the dust cover off, and blow into the tube until the vest is firm.

After inflation of the vest in the water, avoid body movement or wasteful expenditures of energy as much as possible and remain calm. Should the inflatable cell lose some buoyancy, remove the cap on the oral inflation tube and blow into it. Replace the cap on the oral inflation tube after you have topped-off the cell.

The automatic backup inflator will inflate the cell whenever exposed to water. Should the vest inadvertently inflate due to heavy rain or sea states, deflate the cell by depressing the top of the oral tube dust cover into the oral tube. Remove the CO2 cylinder (#3) and discard. Ensure the beaded inflation lanyard (#1) is in the full up (armed) position and insert a new green safety pin. Pull the spring-loaded lever (#4) up until it "clicks" and locks into place. Dry the inflator and inflator tablet case (#6). Install a inflator tablet (#5) into the tablet case (#6) and return spring loaded lever (#4) to its closed position. Install the new CO2 cylinder (#3) into housing until green indicator is visible. Ensure that the armed auto-inflator indications A thru D are visible.

## INSPECTION

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, especially with regard to the inflator tablet in the auto inflator, should be determined by the frequency and condition of use. However, prior to each use a visual inspection should be conducted. Additionally, a leak inspection of the vest and replacement of the inflator tablet should not exceed six (6) months.

### VISUAL INSPECTION (Performed prior to each use)

Open the CO2 cover and ensure that the armed auto-inflator indicators A thru D are visible. Remove the CO2 cylinder (#3) and check the bottom for pin punctures in the seal of the cylinder. Discard the CO2 cylinder if punctured and install new cylinder (#3) fully into the inflator housing. Check the CO2 seating window (#2) for a green indication after cylinder installation. 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.

### LEAK INSPECTION (Performed Semiannually)

1. Inflate the bladder through the oral tube with a low-pressure 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, install a new inflator tablet (#5) and reinstall charged CO2 cylinder (#3) using the steps contained in this manual. Close anti-chaffing sleeve and outside cover. Complete step listed in Visual inspection.

### FUNCTIONAL & LEAK 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 inflation lanyard (#1) in the full up (armed) position and insert a new green safety pin.
2. Complete steps 1 & 2 in Leak Inspection above.

## FACTORY SUPPORT

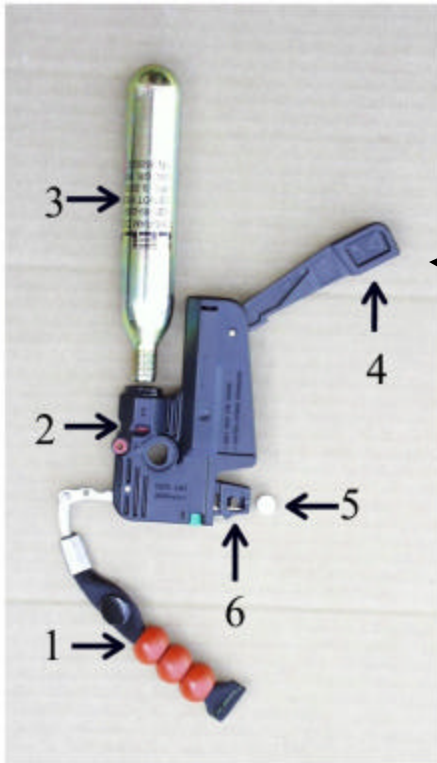
Contact LSC for inspections and services, LSC will inspect and test your inflatable vest, LSC service #000-IS33.

## REPLACEMENT PARTS

#470-CG	AUTO INFLATOR KIT	#471	TABLETS, INFLATOR (10 pack)
#470-1	PIN, SAFETY, GREEN	#484	CO2 CYLINDER, 33 GRAMS
#481-P	POCKET f/#481 WAIST BELT (optional)		

## 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.

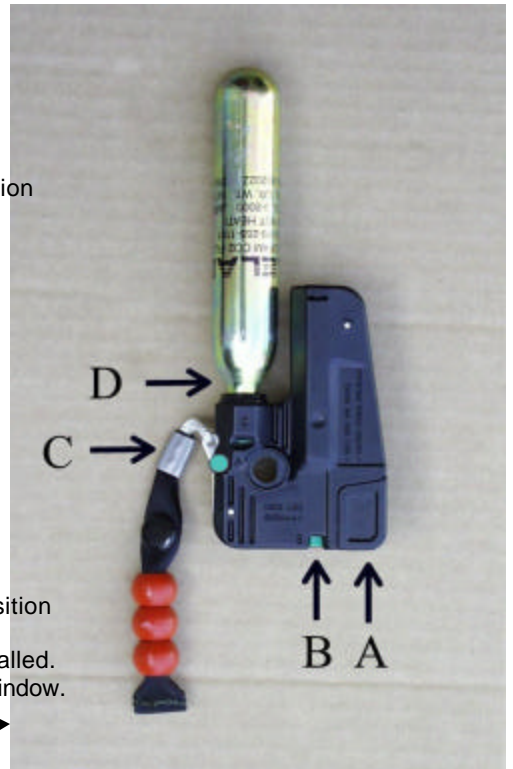


**Parts Breakdown of CO2 Auto-Inflator**

- 1. Beaded Inflation Lanyard
- 2. CO2 Seating Window
- 3. CO2 Cylinder, 33 Gram (#484)
- 4. Spring-loaded Cocking Lever in Open Position
- 5. Inflator Tablet (#471)
- 6. Inflator Tablet Case

**Armed CO2 Auto-Inflator Indications**

- A. Spring-loaded Cocking Lever in Closed Position
- B. Green Indicator Flush with Bottom Edge.
- C. Beaded Lanyard Armed with Safety Pin Installed.
- D. CO2 Cylinder Installed/Green Indicator in Window.



**LIFESAVING SYSTEMS CORP.**

220 ELSBERRY RD.  
 APOLLO BEACH, FL 33572

PHONE: 813/645-2748

FAX: 813/645-2768

[www.lifesavingsystems.com](http://www.lifesavingsystems.com)