



OWNER'S MANUAL

TRI-SAR SURFACE SWIMMER

#487-S

WARNINGS & CAUTIONS

Use only 33-gram CO2 cylinders (LSC #484) 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 arm is in the up (armed) position prior to cylinder installation. Check for proper routing of the CO2 inflation lanyard.

The Rescue Swimmer's Vest must be visually inspected prior to use and functionally tested per inspection procedures.

Do not allow the vest to become excessively soiled. Rinse the vest with fresh tap water after exposure to salt or chlorinated 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 **TRI-SAR SURFACE** is LSC's rescue harness designed for surface rescue swimmers with dual recovery capability. The TRI-SAR line of harnesses was the first harness designed to combine the security of a full body harness, comfort of a seat harness and safety of integrated flotation. The surface swimmer model includes a swimmer's attachment point V-Ring to secure vessel-based rescuers to a tender line for safety and recovery options.

The full body harness is constructed primarily of mil-spec type 8 and type 13 nylon webbing and features LSC's exclusive low profile, quick adjusting stainless steel hardware. The TRI-SAR incorporates LSC's operationally proven techniques in weight distribution for superior comfort without the use of heavy, bulky pads. The harness hoists in a seated position with the leg and waist straps supporting the rescuer, allowing them to have total use of both hands during rapid deployment type rescues in swift water, cold water, and cliff rescue missions.

The integrated flotation vest features a low profile easy to swim in design, with user variable buoyancy up to 35 lbs. Flotation cell is encased entirely in a heavy weight, puncture/abrasion-resistant nylon case. Due to its encased design, the cell requires no repacking after use; simply deflate. Inflated manually with CO2 or orally with air. Generous storage pockets for critical rescue and emergency equipment are provided. Orange vest has SOLAS grade retro reflective panels. Utilizes a 33-gram CO2 cylinder (LSC #484).

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.

FACTORY SUPPORT

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

REPLACEMENT PARTS

| | | | |
|----------|--|------------|--------------------------------------|
| #487-VB | Black Inflatable Bladder US Navy Pockets | #487-HM-S | Harness, Medium, 64"-69" in height |
| #358 | Rescue and Survival Knife | #487-HL-S | Harness, Large, 68"-73" in height |
| #484 | CO2 Cylinder, 33 Grams | #487-HXL-S | Harness, X-Large, 72"-78" in height |
| #487-1-3 | Tri-SAR Inflator Assembly | #487-HXX-S | Harness, XX-Large, 74"-80" in height |
| | | #HI015 | Pin, Safety, Red |

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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USING YOUR TRI-SAR

Position the Tri-Sar with the front up. Open the chest buckle, remove V-Ring from keeper, re-close the keeper, fully extend waist, leg, and shoulder straps. Hold the vest open behind you with both hands. Step through the waist strap and through the proper leg strap with one foot then the other. Pull the vest and harness into position. Put your arms through the shoulder straps. Adjust the shoulder and waist straps. Open the V-Ring keeper and secure the V-Ring. Adjust the leg straps. It is normally more comfortable to leave the leg straps slightly loose.

To inflate the vest, pull down rapidly on the beaded inflation lanyard. This action punctures the CO2 cylinder. The released gas immediately inflates the bladder. The cylinder will require replacement after inflation. Should a bladder not fully inflate, remove the oral tube from the cover and blow air into the bladder manually.

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 inside fold on the left side of the vest.

VISUAL INSPECTION

Prior to each use, inspect the entire vest, harness and components for excessive wear and the following: Adjustors, Snap Hook and Quick-Release Safety Buckle for proper operation. Apply a light coat of a light lubricant, such as WD-40 to Quick Release Safety Buckle and snap hook. Inspect knife for proper storage and pockets for proper equipment and security. Remove the CO2 cylinder and check the bottom for pin punctures in the seal of the cylinder. Discard the CO2 cylinder if punctured. Ensure that the inflator lever is in the up (armed) position and install a fully charged cylinder (1/4 turn after seal contact).

FUNCTIONAL INSPECTION

1. Pull beaded lanyard to inflate the bladder. Both sides of the vest should fully deploy. Deflate the vest by depressing the oral inflation tube valve and vacuuming or squeezing out the CO2.
2. Inflate the vest 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 recheck for leaks and replace the vest if required. Deflate the vest.
3. After deflation, stow the oral tube valve. Reinstall a charged CO2 cylinder, and close side panels.

LEAK INSPECTION

Complete steps 2 and 3 as above.