



OWNER'S MANUAL

Low Profile Flotation Collar (T-LPFC)

#741 (65+lbs Buoyancy)

WARNINGS & CAUTIONS

The Tactical Low Profile Flotation Collar is intended to be used by professional military and law enforcement personnel. The collar must be properly integrated with a compatible vest/harness carrier assembly with leg straps to function properly. Consult LSC for proper integration methods.

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

The #741 TLPFC utilizes two (2) manual CO2 inflation mechanisms with safety, water-activated backup feature. Users are to be trained to manually inflate the vest by pulling the two (2) beaded lanyards as the primary method of vest inflation. The water-activation is a safety-backup in the event the wearer becomes incapacitated.

The inflator mechanisms utilize a water-soluble tablet for the backup, water-activation. Upon immersion in water the tablets dissolve, releasing a spring-loaded pin, which punctures the CO2 cylinders and releases the compressed gas into the inflatable bladder of the flotation collar. The tablet installation and arming procedure for the inflator mechanisms must be carefully followed to ensure proper functioning of the flotation collar. Review all arming instructions.

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 arms are in the up (armed) position prior to cylinder installation. Check for proper routing of the CO2 inflation lanyard.

The flotation collar must be visually inspected prior to use and functional tested per inspection procedures.

Do not allow the collar to become excessively soiled. If collar becomes heavily soiled, disarm the water activated inflator mechanisms by first removing the CO2 cylinders and then the water-soluble tablets. Clean collar with fresh water and mild detergent. Allow components to thoroughly air dry, protected from direct sunlight. Rearm and repack the flotation collar per instructions prior to placement in service.

Do not enter the water from excessive heights with the bladder inflated. Personal injury and/or damage to the flotation collar may result.

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

DESCRIPTION

The TLPFC provides in excess of 65 lbs of buoyancy, offering above average flotation characteristics for personnel carrying tactical loads (ballistic vests, firearms & ammunition etc.). The portion of the collar that lies across the shoulders is only 1/4" thick, eliminating interference with helmets and equipment. Dual chamber bladder ensures redundancy and allows for full buoyancy recovery should one chamber become compromised. Bladder is protected by a Nomex fabric case. Manual inflation requires two (2) 33-gram CO2 cylinders. Separate beaded lanyards located on the front left and right lobes of the collar fire each cylinder independently. Both cylinders must be activated to obtain full flotation buoyancy. Inflation mechanisms feature a water-activated safety backup. Consult LSC for proper integration of flotation collar with vest/harness carrier assemblies.

USING YOUR #741 T-LPFC

Mount the flotation collar to a compatible vest/harness using the four (4) mini-buckles. Vest/harness may require minor modification for integration with flotation collar. Attach the mini-buckles to the mating hardware on the vest/harness. All buckles are located on the underside of the collar. Ensure proper orientation of the collar when mounting. When complete, don and adjust the vest/harness according to the manufacturer's instructions and then secure the front closure buckle of the flotation collar. Leg straps must be worn to ensure correct flotation characteristic.

- Before packing the vest, check and ensure the inflation mechanisms are properly armed with new water-soluble tablets. Install tablets and arm the inflation mechanisms **BEFORE** installing the CO2 cylinders. Failure to do so will result in puncturing the cylinder during installation.
- Check and ensure the CO2 cylinders are the correct size and that they have not been previously punctured or damaged.
- Ensure the lanyards are properly attached.

To manually inflate the vest, pull rapidly down on both beaded inflation lanyards to puncture the CO2 cylinders and inflate the bladder. The released gas immediately inflates the bladder. Lanyards do not need to be actuated at the same time. However, the vest will only reach full inflation after both CO2 cylinders have been punctured. Inflation by only one cylinder will result in partial inflation (approx. 50%) and the bladder will not be fully deployed. Both cylinders will require replacement after use/inflation.

Should the bladder not fully inflate after pulling both lanyards, open the remaining portion of the case and pull out the bladder to be inflated orally. To open a closed or partially closed case by hand, reach behind the neck and open the cover flap by releasing the 2 plastic snap fasteners. After releasing the cover flap locate the start of the closure zippers behind the neck (one zipper starts from neck and proceeds to left extension, the other from neck to right extension). Part the closure zipper on one side by sliding your fingers between the two zipper cords. Continue parting the zipper from the neck to the bottom of the extension, repeat for the other side. With the case opened, unpack the remaining portion of the inflatable bladder and locate the two oral tubes (one left and one right). Unlock one oral tube valve. Depress the end of the valve and blow air into the bladder. Either oral tube can be used for inflation. After inflation, lock the oral tube valve in the closed/sealed position. If the bladder will not inflate or does not retain air, try inflation using the second oral tube, which fills a separate air chamber.

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. It is also recommended that the user practice removing the bladder from the case to access the oral tubes in the event of a failed or partial CO2 inflation.
- The water-soluble tablet used in the inflator mechanism will soften over time and with exposure to high moisture levels. Softening, at some point will cause the tablet to breakdown and result in premature vest inflation. Replace the tablet regularly to prevent or limit premature inflations. The tablet manufacturer recommends replacement every 6 - 12 months depending on climatic and exposure conditions. High humidity locations will require more frequent replacement. It is suggested that you start with a 9-month replacement cycle and adjust this period up or down depending on the occurrence of premature inflations in your operating environment.
- Replace tablet after each immersion in water.
- For repacking and arming procedures reference the separate repack instructions.

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 by serial number in a logbook.

VISUAL INSPECTION

Thoroughly inspect the outer case, webbing, mini-buckles, closure zippers and front buckle for damage. Repair or replace the case as required. Open the case and unfold the stowed bladder. 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). Check the inflator mechanisms for damage and ensure each is properly armed.

- Replace the lock pins if broken or missing.
- Replace old or missing water-soluble tablets.
- Ensure that the inflator levers are in the up (armed) position, and that the water-soluble tablet is properly inserted before installing or replacing cylinders.
- Refer to the repack instruction for replacement procedures.

FUNCTIONAL & LEAK INSPECTION

1. Pull both beaded lanyards 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 left oral tube (front chamber) with a low-pressure air source (2 psi max.) or by oral inflation. Depress the right oral tube valve to allow trapped air to escape. CAUTION: DO NOT OVER INFLATE. Bladder damage 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 right oral tube (aft chamber) using the same procedure as in step 2.
4. After deflation relock the oral tube valves. Replace water-soluble tablets, reinstall charged CO2 cylinders, refill the bladder and close the cover. Refer to separate repack instructions.

LEAK INSPECTION

Complete steps 2, 3 & 4 as above.

FACTORY SUPPORT

Contact LSC for inspections and services, LSC will inspect and test your inflatable vest, LSC service #000-ID33.

REPLACEMENT PARTS

#740-01	ARAMID CASE (SPECIFY COLOR) *Optional Nylon Case Available	#740-02	INFLATABLE BLADDER, 65+lbs.
#740-03	CO2 DUAL INFLATOR ASSEMBLY	#740-04	ZIPPER SLIDER w/PULL TAB, EA.
#484	CO2 CYLINDER, 33 GRAMS, EA.	#479	GASKET SET, CO2 CYLINDER, EA.
#484-S	GASKET, 1/2" CYLINDER SEAT, EA.	#HI014	NUT, CO2 STEM, EA.
#HI015	LOCK PIN RED, f/MANUAL INFLATORS, EA.		

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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