

STRATEGOS TECHNOLOGY TRANSFERENCE

Expeditionary Lift Balloon MK II

ExLB.2 Instruction Manual & User Guide

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1. ExLB General Description & Specifications

1. Lift bag material and capacities

- 1.1 Lift Bag Capacity: 750#
- 1.2 Fabric: 1000 Denier Cordura Overbag with lightweight airtight and waterproof inner bag
- 1.3 Overpressure Valve: USIA
- 1.4 Surface Inflation/Deflation Valve: NRS

2. Dimensions

- 2.1 Inflated
 - 2.1.1 Height 50"
 - 2.1.2 Length 33"
 - 2.1.3 Depth 37.5"

3. Weights

- 3.1 Bare System: 12.5 pounds
- 3.2 System Including Bottles
 - 3.2.1 One Bottle: 37 Pounds
 - 3.2.2 Two Bottles: 61.5 Pounds

4. Inflation and Actuation Mechanisms

- 4.1 Manual Lanyard Pull Actuation
- 4.2 Optional Automatic Tow Actuated Coupler (ATAC) Pneumatic Actuation
- 4.3 System configurable for single or double HP50 (3300 psi) aluminum cylinders to accommodate different weights at different depths

5. System Protection and Packaging

- 5.1 1000 Denier Cordura Deployment Bag
- 5.2 1000 Denier Cordura Accessory bag
- 5.3 1660 Vented Pelican case w/wheels
- 5.4 1060 Pelican case for Field Repair Kit

6. Attachment System

- 6.1 1" Stainless Steel Pin capturing <3/4" Amsteel Blue line or lift strap
- 6.2 Attachment to ATAC System through same 1" pin and machined lift eye

2. Berry Amendment Compliant Textiles and Hardware

Hardware:

2" Side Release Buckles #5618

Stealth Warrior Duraflex

National Molding Corp. 5 Dubon Court Farmingdale, NY 11735

Rubber handles

1" polyethylene molded

Gerald Schwartz Inc. GA

Fabric:

Waterproof Interior Liner:

LCT-1915

Black, 400Denier nylon packcloth

M1 W/6.75 oz urethane coating

Weight 10.75 oz

Lamcotec™ 152 Bethany Rd. P.O. Box 279 Monson, MA 01057

Cordura

1000 Denier w/ 1.25 oz urethane coating

102625-BK-59/60in

DUCRBC 144 Railroad Ave., Ste. 219 Edmonds WA 98020

Weight belt webbing 2"

989N 2BK

Nylon

PK Supply corp. 6406 South 196th St. Kent, WA 98032

Thread:

T70 nylon

Anafil Nylon

Twisted multifilament

All components used comply with Title 10 United States Code [U.S.C.] §2533a.

3. ExLB System Equipment Inventory

1. Main Lift Bag System

1.1 ExLB.2 Chassis with Internal Air System

1.2 Dual HP50 Aluminum Scuba bottles

1.3 Four Scuba Tank Straps

1.4 Manual Actuation Lanyard

1.5 Rigging Attachment Pin

1.6 Handling Strap Assembly (red)

1.6.1 Actuator Safety Arming Pin

2. Component Storage

2.1 Vented 1660 Pelican™ Case (Storage and Transport)

2.1.1 Sized to allow case to be used for fresh water rinse post-dive

2.2 STT 1000 Denier Cordura™ Zippered Deployment (Bag)

2.2.1 Hypalon™ armored end to prevent machined lift eye from wearing through bag.

2.2.2 Perimeter Rigging Loops

2.2.3 Full opening YKK™ zipper

2.2.4 Enclosure for paper copy of instruction manual

2.3 1060 Pelican™ Case

2.3.1 Field Repair Kit storage box

3. Field Repair Kit

3.1 Quick Disconnect O-Ring repair Kit (N004,012,013)

3.2 ATAC O-ring Pack (CO2 Ring, Actuator Pin Rings)

3.3 Surface Inflation/Deflation Valve Adapter

3.4 Emergency Spare CO2 cartridges

3.5 Inner Bag repair patches

3.6 Aqua Seal rubber cement tube

3.7 Extra Lift pin locking clip

3.8 Scuba fill adapter (x2)

3.9 Extra Manual Pull Lanyard

3.10 Silicone Grease tube

3.11 Zipper Wax Stick

4. Limited System Warranty

Strategos Technology Transference LLC asserts that the products are guaranteed to be free from defects in material and/or workmanship and to perform as advertised when properly used and maintained in accordance with written instructions for the period of one year.

5. ExLB Setup and Use Guide

1. System Preparation

- 1.1 Set system on even ground (preferably padded) with the "Front" side toward you. Front face has the machined lift eye and manual actuation lanyard on it.



1.2 Safety Pin Inspection

1.2.1 Is the safety pin in?

- 1.2.1.1 No... The system has been fired and will need the lanyard and the actuator safety pin reset.

- 1.2.1.1.1 Follow Section 2 "Re-Fire Reset procedure on following page.



- 1.2.1.2 Yes... The system is ready to be rigged and is already prepared for service