



Owner's Manual

E-AIR # 880

WARNINGS & CAUTIONS

The products offered for sale by LSC are of a rescue and survival equipment nature. Inherent to all rescue and survival environments is an increased risk of injury and/or possible death to an individual or group of individuals. The equipment offered by LSC is intended to aid the professional rescuer(s) and/or survival victim(s). However, the risk of injury or death cannot be completely eliminated or foreseen. Equipment training, including continued proficiency reviews and maintenance, is vital to the proper and safe use of all rescue and survival equipment. It is the responsibility of the purchasing and end-user organization or individual to:

- Determine the suitability of equipment for the selected application.
- Define the operational procedures and safety guidelines associated with the proper utilization, maintenance (including service life) and storage of the rescue and survival equipment. All individuals must be thoroughly trained and familiarized with the intended purpose, correct use and function of the equipment. Failure to do so may result in serious injury or death.
- **Prior to use**, in water training shall be performed at training facilities or organizations specifically qualified to train emergency egress.
- **Read** warning label on high-pressure air cylinder.
- **Do not** apply lubricants or chemicals to any part of the E-AIR assembly.
- **Do not** allow the cylinder to be filled over 3,000 PSI and only with normal atmospheric dry (21% oxygen) filtered air.
- **Do not** stow the E-AIR in temperatures below 5° F, (-15° C) or above 130° F, (55° C).
- **After** proper training, use the E-AIR only for emergency escape from a submerged aircraft or vehicle.
- **Prior** to utilizing the E-AIR, in- water emergency egress training shall be performed.
- **Ensure** that the cylinder is filled **only** by a qualified service technician that is trained to fill high-pressure breathing air cylinders.
- **Do not** loosen or remove any component of the E-AIR assembly, except for the plastic fill dust plug, using a 3/16 " allen wrench.
- **Fill** the cylinder only with dry, filtered (21% oxygen) breathing air to 3,000 PSI maximum.

DESCRIPTION

The E-Air is an **emergency escape-breathing device**. It has been specifically designed for underwater egress from aircraft or vehicles. The primary design criteria, was to reduce weight, bulk, and provide rapid deployment. All components and regulators are based on proven, simple designs for high reliability. The E-AIR is basically a small high-pressure (3,000 PSI) cylinder that provides 1.5 cubic ft. of air at full pressure. The first stage pressure regulator attached to the cylinder, reduces the high pressure to approximately 130 PSI. The second stage regulator is attached to the cylinder/high-pressure regulator, by the 20" flexible hose. The ultra low volume (ULV) second stage, provides easy purging. The fill valve is integrated into the top of the cylinder mounted, high-pressure regulator. A plastic dust plug is installed into the fill port. LSC's PN 745-7P is a molly pocket panel, designed for the E-AIR, we strongly recommend its use if possible. The 745-7P provides for rapid (quick draw) deployment of the 2nd stage regulator/mouthpiece for emergency use. It also protects the E-Air from wear and abrasion, and accidental purging. It is constructed of fire resistant material and should mount onto most Molly type vests/harnesses.

USING THE E-AIR

The E-Air is deployed from the stowage pocket (745-7P) by pulling on the small beaded (3) lanyard to open the mouthpiece/regulator pocket flap, and extend the air hose (20"). Insert the mouthpiece and press the purge valve if required. The E-Air is always turned ON, there is no shut off valve. This prevents the possibility of the unit being turned off during an emergency, rendering the device useless in a situation where seconds can make all the difference.

INSPECTIONS

Before placing in service, have the cylinder filled to 3,000 PSI, with normal atmospheric (21% oxygen) dry, filtered air. Due to limited air supply, during filling, test the purge valve. Inspect the entire assembly for visual damage, such as cuts, dents, cracks, corrosion, discoloration, and loose fittings. E-Air's found to be unserviceable, shall be returned to a qualified technician for inspection and service.

PRE-FLIGHT

Pre-flight inspections shall be performed by the wearing crewmember. Visually inspect for any apparent damage, corrosion, discoloration, and pressure gauge reading. Remove from service and return to a qualified technician for disposition of E-AIR'S that fail. **DON'T** purge the E-Air during pre-flight. The E-AIR is always ready for use when charged with high-pressure air.

CYLINDER FILLING

Allow only properly trained technicians to fill the E-AIR cylinder. Remove the plastic fill dust plug from top of the high-pressure (1st stage) regulator (see figure 1) with a 3/16" allen wrench. Inspect filling port for debris or moisture. Clean and completely dry the unit as required. Use either a refill adapter, LSC P/N 576-1 (from scuba tank) or P/N 576-2 (from compressor station) or equivalent, and fill the cylinder to 3,000 PSI. Fill slowly to prevent heat build-up in the cylinder. Allow the cylinder to cool (cold fill) to assure a full fill. During filling, press the purge valve to check for proper operation. The miniature pressure gauge, on the H.P. regulator, is for reference only. The fill system pressure gauge should be used as the indicator of fill pressure.

MAINTENANCE

The E-Air will require factory (LSC) prescribed service every two years. The two year service requirement is based upon normal aircraft cabin/cockpit environment. E-AIR'S exposed to submersion in water, saltwater, or chlorinated pools, will require more frequent cleaning and maintenance. Chlorine and saltwater is especially corrosive and will damage many materials. After submersion, the entire assembly needs to be thoroughly soaked and rinsed in fresh water. Carefully shake the regulators to remove trapped water. Low-pressure clean air should be used in the drying process. It is very important that the cylinder be charged with at least 500 PSI, to prevent water entry into the regulator and cylinder any time the E-AIR is submerged in water. Any questions in regards to maintenance or usage, please call LSC at 813 645-2748 or check for information on our web site at www.lifesavingsystems.com

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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E-Air

Figure # 1: Fill Port



Note: Fill port adapter sold separately P/N # 576-1 (see Instructions)

Optional Stowage Pocket: P/N # 745-P7

Figure # 2: Stowing second Stage

