The LIFELINE Advanced Air System is better. Here’s why.

After years of design and testing, LIFELINE’s revolutionary new Advanced Air System is ready to race! It’s tough and user-friendly, with every feature you ever wanted in an air system. Racers love it the instant they put it on.

Includes Helmet Bag, Orange in sizes S-XL. Optional Communication System available.

- Water-activated ambient Air Valve with manual override
- Double-flange silicone Mask on ergonomic ball swivel moves with you
- Flexible braided Hose with stainless hardware, including 2 male Quick Disconnects
- Easy Turn Knob adjusts mask to your face
- Snell SA2015 certified Helmet, pre-drilled for head and neck restraint
- 2nd Stage Scuba Regulator with easy-access Purge Button
- Right-side Hinge Mounting Assembly with Emergency Release Pin
- Two Exhaust Valves—one in the Regulator, one in the Mask
- Left side push-and-release locking Latch System

Contact us: 928-669-9241 • sales@liferineracegear.com
Helmet Hardware Adjustable Sizing

**Moving Latch System:**
- Peel away Cheek Pad for access to “Mounting Plate”.
- Remove Latch System “Cover” (four screws)!
  - You DO NOT need to remove “Catch” and “Spring”.
- Using a 3/32” hex key, remove 2 screws!
  - Hold onto “Mounting Plate” inside helmet
- Move to desired hole position (see Figure 1)
- Tighten screws!
  - Thread locker (temporary) is recommended.
- Install cover with 4 screws!
  - Thread locker (temporary) is recommended.

![Figure 1](image)
*Six holes for four adjustments*

**Moving Hinge:**
- Peel away Cheek Pad for access to “Mounting Plate”.
- Remove 2 screws from “Hinge”.
  - Hold onto “Mounting Plate” inside helmet
- Move to desired hole position (see Figure 1”)
  - *Note: Be sure to match Latch side holes.*
- Install and tighten screws!
  - Thread locker (temporary) is recommended.

Face Shield Installation:

- Align Face Shield Hinge with Helmet Hinge.
- Install Quick-Release pin (from top) first.
  - *Never pull out Quick-Release pin when system is Latched unless in an emergency.*
    - This will subject the Tongue to excessive bending
  - *Always unlatch system before removing Quick-Release pin.*
- Adjust Knob so mask is all the way out.
- Put on head.
- Latch system closed (see ! below)
- Adjust Knob until fit is acceptable.
- Unlatch system: Push button (do not pull out Q-R pin)
- Latch system closed for fit check.
  - *Practice makes perfect!*
    - Latching the system may seem difficult at first.
    - This is part of learning and getting well acquainted your equipment.

Re-Arming A-Valve:

**Manual Override Re-Arm:**
- This will be easier if shield is removed from helmet
  - Examine and note orientation and positions of parts.
    - Insert “Re-Arming Tool” into “A-Valve Fitting” from inside mask.
    - Match up Alignment pins (on tool) with cutouts in fitting.
    - Push inward to compress valve spring and turn tool 90°.
    - A-Valve “Sleeve” might rise with pushrod (see photo Fig.2 in sequence)
    - Use a finger to push it down into the Bobbin
      (See photos Fig. 3, 4 sequence)
o Align “Trigger” with slot in “A-Valve Housing”
o Push “Trigger” down into “Armed” position
(see Fig. 5 below)

o Remove “Re-arming Tool” by turning in either
direction until free.
• It will “pop out” under the force of the spring.

**Water Activated Re-Arm:**

! This will be easier if shield is removed from helmet.
! Examine and note orientation and position of parts.
  o From the underside of the shield, use a 13/16”
    open end wrench to unscrew the “Socket Swivel”.
    (See Fig. 6 below)

o Rotate mask assembly to access the A-Valve easily (see
photo below)

o Insert “Re-Arming Tool” into “A-Valve Fitting”
  from inside mask.
o Match up Alignment pins (on tool) with cutouts in
fitting.
o Push inward to compress valve spring and turn
  tool 90°.
o Remove “Trigger”
  (swing Trigger upside down and feed through slot)

o Remove “Sleeve” and used “Bobbin.”
o Clean area to remove any Bobbin powder or other
debris.
! A-Valve must be Dry before installing a “Bobbin”.
o Install new “Bobbin” in correct orientation (see below)

! Alignment splines will not allow improper
orientation.
! DO NOT FORCE THE BOBBIN INTO POSITION!

**WARNING:** Please return your Advanced Air System to LIFELINE
every two years for complete inspection, servicing and testing.
**WARNING:** Racer must be clean-shaven for proper seal.


\textbf{Cautions:}
- Carefully follow the directions below to maintain the bobbin integrity.
- Intended for use in Halkey-Roberts Corp. products only.

\textbf{Safety Handling:}
1. The white pill material is a pharmaceutical grade Microcrystalline Cellulose, typically used as the filler in medicine tablets, ill. 1. The pill formulation is considered proprietary.
2. The MSDS for the yellow bobbin is provided under separate cover.

\textbf{Operation:}
1. The V80040 Bobbin Assembly is designed to disintegrate when exposed to water. This allows the firing mechanism to puncture the CO$_2$ cylinder and fill the inflatable chamber.
2. To insure consistent service from your manual/automatic inflator the bobbin should be changed at regular Halkey-Roberts recommended intervals or replace bobbin more frequently in extreme conditions, i.e. high temperature and high humidity.
3. Install V80040 Bobbin Assembly with the white pill facing the cap of the inflator, ill 1. The Bobbin Assembly will slide in easily if installed correctly.
4. Shelf life plus service life not to exceed six (6) years from Date Code, ill 2. Replace (Discard) bobbin within a maximum of six (6) years from Date Code.

\textbf{Shelf Life:}
1. See tables below, use Date Code printed on side, ill. 2.
2. Bobbin must be stored in a cool dry environment. (65°F to 85°F, 19°C to 29°C; Maximum 60% RH)
3. Service life begins when bobbin is removed from a cool dry environment or when bobbin is installed in an inflator, which ever comes first.

\textbf{Recreational use:}
- V86000 Pro -1F° Inflator
- V85000 Mark IV
- V90000 Alpha Inflator®

\begin{tabular}{|l|c|c|}
\hline
 & Shelf Life (years) & Service Life (years) \\
\hline
V86000 Pro -1F° Inflator & three (3) & three (3) \\
V85000 Mark IV & three (3) & three (3) \\
V90000 Alpha Inflator® & three (3) & three (3) \\
\hline
\end{tabular}

\textbf{Commercial use:}
- V86000 Pro -1F° Inflator
- V85000 Mark IV
- V90000 Alpha Inflator®

\begin{tabular}{|l|c|c|}
\hline
 & Shelf Life (years) & Service Life (years) \\
\hline
V86000 Pro -1F° Inflator & four (4) & two (2) \\
V85000 Mark IV & five (5) & one (1) \\
V90000 Alpha Inflator® & five (5) & one (1) \\
\hline
\end{tabular}

\textbf{Illustration 1}

\textbf{Illustration 2}

\textbf{US Patent 7,572,161 and Foreign Patents Pending or Issued.}
HALKEY ROBERTS®, HR®, Pro -1F° and Alpha Inflator® are registered trademarks of the Halkey-Roberts Corporation.
Made in the USA.

Halkey-Roberts
2700 Halkey-Roberts Pl. N.
St, Petersburg, FL 33716 USA
727-471-4200
www.halkeyroberts.com
sales@halkeyroberts.com
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