

# Halcyon Traveler BC



OWNER'S MANUAL





## CE CERTIFICATION INFORMATION

### Eclipse / Infinity / Evolve / Explorer / Traveler BC Systems

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EC Type approval conducted by  
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# HALCYON BUOYANCY COMPENSATOR OWNER'S MANUAL

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## WARNINGS, CAUTIONS, AND NOTES

Pay special attention to information provided in warnings, cautions, and notes accompanied by these icons:



**A WARNING indicates a procedure or situation that, if not avoided, could result in serious injury or death to the user.**



**A CAUTION indicates any situation or technique that could cause damage to the product and could subsequently result in injury to the user.**

**WARNING:** This manual provides essential instructions for the proper fitting, adjustment, inspection, and care of your new Buoyancy Compensator (BC). Because Halcyon's BCs utilize patented technology, it is very important to take the time to read these instructions in order to understand and fully enjoy the features that are unique to your specific model. Improper use of your BC could result in serious injury or death.

## Copyright Notice

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## GENERAL PRECAUTIONS AND WARNINGS

\*Before using this Buoyancy Compensator (BC), you must receive instruction and certification in SCUBA diving and buoyancy control from a recognized training agency. Use of SCUBA equipment by uncertified or untrained persons is dangerous and can result in serious injury or death.

\*Read this owner's manual completely before attempting to use your BC, and become familiar with it first in a controlled environment, such as a swimming pool, in order to weight yourself properly and to become comfortable with using its many features and adjustments.

\*Before every dive, perform a complete pre-dive inspection according to the procedure prescribed in this manual to ensure that all components are functioning properly and that no signs of damage or leaks are present. If your BC is not functioning properly or is damaged, remove it from service until it can be repaired by an authorized Halcyon Dealer.

\*Before every dive, as part of your pre-dive inspection, ensure that all components of your BC system are securely connected.

\*Your BC is not a lift bag. DO NOT use it to bring heavy objects to the surface. Doing so may cause permanent damage to the BC and could also result in an uncontrolled ascent.

\*DO NOT overinflate your BC. Control all ascents. A rapid, uncontrolled ascent may cause arterial gas embolism or decompression sickness and could lead to serious injury or death.

\*In the event of an uncontrolled ascent, it is important to immediately begin venting air from the BC. Continue venting air to slow your ascent rate if neutral buoyancy cannot be re-established.

\*In an emergency such as an out-of-air situation or uncontrolled descent, it is important to remove and jettison weight immediately. DO NOT depend solely on using your BC's power inflator to lift you to the surface.

\*DO NOT inhale from your oral inflator. The BC may contain harmful contaminants or gasses, which could cause suffocation, serious injury, or infection of the lungs.

\*Disassembly, repair, or lubrication must not be attempted by persons who are not factory-trained and authorized by Halcyon. Unauthorized service will render the warranty null and void.

\*Factory-prescribed service for this BC should be performed at least once annually by an authorized Halcyon Dealer.

\*Annual service consists of a complete overhaul of the power inflator and a general air leak inspection of the bladder and valve connections.



**WARNING: Your Buoyancy Compensator (BC) is NOT a lifejacket; it does not guarantee a head-up position of the wearer at the surface. It does not meet U.S. Coast Guard regulations for a life preserver or personal flotation device (PFD). If you become unconscious in the water without a buddy present to immediately assist you, you may suffer serious injury or death from drowning.**

Your Buoyancy Compensator is primarily designed to help you maintain neutral buoyancy while in a comfortably balanced, face-down swimming position underwater. It is also designed to provide you with flotation so that you can rest on the surface, but it is not designed to function as a life preserver or personal flotation device (PFD). In order to meet U.S. Coast Guard regulations, a PFD must be designed so that it automatically rights you to a face-up position and holds your head out of the water on the surface. The design characteristics of a personal flotation device are therefore different from those of a Buoyancy Compensator. The ability of any flotation device to float you in a face-up position can also be affected by other diving equipment you wear, including a cylinder or exposure suit, and whether it can be inflated before you lose consciousness.

For this reason, it is important to always dive with a buddy and to maintain close proximity with them at all times. Do not depend on any flotation device to hold your face above the surface in the event that you are rendered unconscious in the water while diving.



**WARNING: While this manual provides some basic guidelines for certain buoyancy control techniques, it is not a substitute for training from a professional diving instructor. Failure to weight yourself properly may create a hazardous condition that could lead to serious injury or death. If you are unsure how to weight yourself in order to achieve optimum buoyancy underwater and on the surface, do not dive until you have obtained the necessary instruction from your diving instructor or an authorized Halcyon Dealer.**

If you have any questions regarding your Buoyancy Compensator or these instructions, contact your Halcyon Dealer or Halcyon at: (386) 454-0811.

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**The Halcyon Traveler™ BC** merges the simplicity and lightweight appeal of small jacket systems with the performance and convenience of back-mounted BC systems. The Traveler™'s unique molded backplate has an integrated single tank carrier and Cinch™ quick-adjust system, creating a secure and easily adjustable BC. These integrated design features are specifically designed for single-tank diving by keeping the tank close to the diver's back while maintaining the full adjustability of the wildly popular Cinch™ adjustment system. These unique design features are combined with a number of other weight-cutting features making the Halcyon Traveler™ one of the lightest high-performance BCs in the industry.

Your Halcyon Traveler™ BC includes a unique, patent-pending Cinch™ adjustment that allows you to size the harness quickly, creating the perfect fit regardless of the amount of thermal protection worn. This novel combination allows your new Halcyon BC to provide all the benefits of technical diving systems without the sizing complications inherent in other designs. Individuals are now able to change suits or even share a BC between divers by quickly adjusting the harness; all this without compromising the harness integrity or our trademarked continuous-webbing design.

## DISASSEMBLY OF THE TRAVELER™ BC

The Traveler™ is not designed to be disassembled. This system can only be used with a single tank. It is not possible to use other BCs with the Traveler™. If you are looking for a modular system, please see our Infinity™ and Eclipse™ product lines.

## ADJUSTING THE HALCYON TRAVELER™ BC



Figure 1



Figure 2

- To tighten the harness: while using both hands, grasp the ends of the waistband webbing and pull up and outward (at roughly 45 degrees) from the body. (Fig. 1)
- To loosen the harness: grasp the webbing at the shoulder straps just above the waist; push the harness out and up slightly from your waist. (Fig. 2)

\*Note: It is possible to over-tighten the harness. If desired, a tri-glide can be put in place as a “stopper” on the webbing to allow a full stop of sizing when the harness has reached its desired fit. (Fig. 2a)



Figure 2a



## FITTING THE HALCYON TRAVELER™ BC

While standing on land, your BC should be snug but not uncomfortably tight. In the water your harness should be snug enough to prevent notable motion of the cylinder as you change orientation, but not too tight so as to bind or restrict your complete range of shoulder and arm movement. Generally speaking, you should be able to fit two or three fingers underneath the strap.

Figure 3



Allow for at least two fingers of spacing between the harness strap and your body. (Fig 3)

The shoulder D-rings should be high enough to allow for proper storage of your Scout back-up lights and to allow for ease of use of your wing's inflator hose.

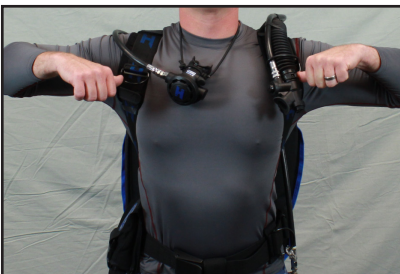
Figure 4



The crotch strap should be comfortable but should also prevent your tank from riding up on your back. To adjust the crotch strap, buckle the waist strap without running it through the crotch strap. Now pull the crotch strap up to the waist belt. Set the length so that the top of the crotch strap loop extends a half inch (12mm) over the top of the waist belt. (Fig. 4)

Once you have properly sized your Secure Harness, you will want to fine-tune the position of the D-rings. The shoulder D-rings should be positioned relatively high on the shoulder straps.

Figure 5



To position the shoulder D-rings, extend your arms straight out to the side, parallel to the ground. Bend at the elbow and bring your thumb straight to the shoulder strap. The center of your thumb should intersect the center of the D-ring. (Fig. 5)

Figure 6



Next, reach across your body to (or almost to) your left shoulder with your right arm. Make sure the right-side D-ring doesn't pinch between your arm and chest. Do the same with your left. If either D-ring pinches, adjust it upwards. (Fig. 6)

Figure 7



The waist D-ring is normally used for clipping off the SPG. To position the waist D-ring, run your left thumb straight down your left side until it hits the waist strap. Your thumb should intersect the D-ring very close to your hip bone. The position might need to be adjusted after your first dive with your BC system. (Fig. 7)

The front crotch D-ring is only used with a tow-behind scooter. Gear should never be clipped to this D-ring, as it will hang in the slipstream and pose entanglement hazards.

Figure 8



You will probably want to trim the extra webbing after you've determined the best size range for your Cinch™ harness and crotch strap. You should leave a bit of extra length until you are certain you are happy with the sizing range of your harness. (Fig. 8)

In water, practice clipping/unclipping the SPG and have your buddy check the position of the tank. You do not want the waist D-ring positioned so far back that you can't comfortably clip or unclip your SPG.

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## WEIGHTING YOUR HALCYON TRAVELER™

Your Halcyon BC utilizes a unique set of weight fixtures that allow the quick installation of additional weight. This is particularly useful when traveling as it reduces the weight you must carry with you. Moving some weight to the BC system also balances your body more efficiently and reduces the inefficiency and discomfort of weight worn on your waist.

You should refer to your previous training in order to assess how much weight you need to carry in releasable form. If you require releasable weight, you may use a weight belt or the Halcyon's optional ACB weight pockets (discussed below).

The Halcyon Traveler™ has been designed to work with a maximum 12 pounds (6kg). The back side of your BC plate has four fixtures, each designed to hold 3 pounds (1.5kg). You must be sure not to use overly large weights or weight that exceeds these limits. You must also be sure to secure this weight properly and to replace any worn or damaged fixtures.



Figure 9

Installing weights on your Halcyon Traveler™ is relatively easy but must be done with care. Place the weight within the small velcro closure and secure tightly. Be sure to tightly secure the large retaining strap. (Fig. 9)

## WARNING



- Do not use the straps if they are becoming worn or if the velcro is not holding tightly.
  - Do not use more than 3lb (1.5kg) per fixture.
- 

## FINAL ASSEMBLY



WARNING: The cam straps may stretch after they become wet. Always wet the straps prior to making the final adjustment, and apply enough tension to ensure that the cylinder is held completely secure. If the cylinder were to slip free from the BC while you are diving, you may lose your air supply, which could lead to serious injury or death.



WARNING: Using too much weight may stress the retaining fixtures, allowing the weight to release spontaneously, which could lead to serious injury or death. Always test your fully rigged and weighted BC system in a controlled environment such as a pool before attempting a dive.



WARNING: Failure to use the appropriate amount of lift for a given cylinder can result in negative buoyancy, which could lead to serious injury or death. Always test your fully rigged and weighted BC system in a controlled environment such as a pool before attempting a dive.



CAUTION: It is important not to overweight the diving rig with too much fixed weight; this configuration may not allow sufficient removable weight, preventing the diver from “ditching” the weight and swimming to the surface during an emergency.



CAUTION: You should be certain through in-water testing prior to a dive that, without any air in your BC, you are capable of swimming against the weight of your configuration with a full tank and all weight in place. You need to verify that you are able to manage your SCUBA configuration in the event of a buoyancy failure.

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## OPTIONAL LIGHT FIXTURE ASSEMBLY

Figure 10



If you wish to carry a primary, hip-mounted light then you should purchase the optional Halcyon light fixture assembly, which allows the light to remain fixed at your waist while the harness adjusts freely. (Fig. 10)

## INSTALLING THE OPTIONAL LIGHT RETAINER ASSEMBLY

- Insert the rigid webbing grommet hole through the outer slot of the Cinch adjustment. (Fig. 11)
- Fold the webbing and align the grommet with the hole on the Cinch adjustment. Secure both items with the 5/8-inch bolt and tighten snugly. (Fig. 12)
- Slide the buckle fixture on to the waist band with the open end of the buckle facing the backplate. The buckle is secured to the tab of webbing that protrudes from the attached light fixture. (Fig. 13)
- The buckle can be adjusted and the light positioned according to individual preference.



Figure 11



Figure 12



Figure 13

## INSTALLING THE OPTIONAL ACB WEIGHT POCKETS

To facilitate the use of releasable weight, Halcyon offers the optional Active Control Ballast (ACB) Integrated Weight Pockets. These are designed to replace the need for a conventional weight belt. The ACB is comprised of two weight pockets attached to the harness waist belt. Each pocket features an internal pocket with handle for convenient transport between dives. The left pocket has an integrated D-ring that replaces the D-ring on the harness. Both pockets have a simple and secure tri-glide attachment to prevent the pockets from sliding forward while you are in a proper horizontal swimming position.

- The ACB attachment webbing should have an installed tri-glide that determines placement of the pocket on the diver's waist. The webbing tail should run through the outermost slot on the Cinch adjustment and then through the attached tri-glide. (Fig. 14)
- Thread the waistband webbing through the ACB sleeve. (Fig. 15)
- Repeat the process on the opposite side.

Figure 14



Figure 15



## RELEASING THE ACB INTEGRATED WEIGHT POCKETS

To remove the weight pockets, release the buckles on the outer pockets, and slide the inner pockets out and away from your body. Make certain that the weighted inner pockets are free from any entanglements, then release. (Fig. 16)

Figure 16



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## PRE-DIVE BC SYSTEM INSPECTION

Before each use, the BC must be given a thorough visual inspection and functionality test. Do not dive with a BC that shows signs of damage unless a complete inspection is performed by an authorized Halcyon dealer. As part of your normal yearly service, you should ensure your Halcyon technician periodically checks the entire Buoyancy Compensator, including the OPV, for damage or corrosion. The Secure Harness webbing should be checked for signs of wear. If your harness shows wear, replace the webbing before diving.

## INSPECTION CHECKLIST

- Connect the wing's power inflator to a clean air source via the LP quick-disconnect hose. Depress and release the inflator button intermittently to ensure that the airflow is unobstructed and that the airflow stops completely when the button is released.
- Manually operate the overpressure (OP) valve by pulling on the attached string to test spring and valve integrity. Fully inflate the buoyancy wing until the OP valve opens. Regular inspection of the OP valve for corrosion or damage is recommended.
- Examine the operation of the OP valve by repeatedly inflating the wing to ensure that the valve opens to relieve excess pressure, yet closes immediately afterward to allow the bladder to remain taut and fully inflated.
- Check the function of the oral inflator button, rapid exhaust valve, and overpressure/manual dump valve to ensure a rapid and unobstructed exhaust from each valve. Listen closely for any leakage with the wing fully inflated but not connected to a low-pressure air source. If there is any suspicion of leak, submerge and, once equalized to depth, check for continued bubbling.
- Make a final check of tension of both cam straps on the SCUBA cylinder to ensure that they have not loosened due to stretching.
- Before entering the water, check both ACB system pockets (if using optional ACB system) to ensure that they are correctly fastened to the BC.



**WARNING:** Loss of the ACB system pockets can occur if the buckles are not securely latched. Unintentional release of both weight pockets underwater may lead to an uncontrolled ascent and could result in serious injury or death.



**WARNING:** If any leakage can be heard, or if the bladder begins to deflate within 5-10 minutes, **DO NOT** attempt to use the BC until it has received factory-prescribed service from an authorized Halcyon dealer.

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## **BC SYSTEM CARE AND MAINTENANCE**

With proper care, your Halcyon BC will provide many years of reliable service. The following preventative maintenance must be performed to extend the life of your BC.

### **PREVENTATIVE MAINTENANCE**

- Avoid repeated or prolonged use in heavily chlorinated water. Prolonged exposure to chemically treated water can damage the BC's material.
- Do not allow the BC's wing to chafe against any sharp objects or rough surfaces that could abrade or puncture the bladder.
- Do not set or drop heavy objects, such as block weights, on the BC's wing. Store the wing partially inflated to reduce the possibility of puncture.
- Avoid prolonged exposure to direct sunlight and extreme heat. Nylon fabric may fade when exposed to the sun's ultraviolet rays, and extreme heat may damage the integrity of the BC's welded seams.
- Avoid any contact with oil, gasoline, or other solvents or contaminants.

### **ADDITIONAL WARNINGS**



**CAUTION:** Recommended working pressure of the Halcyon BC inflator is 120 psi (8.3 bar) to 160 psi (11 bar).



**CAUTION:** The operating temperature range of the Halcyon BC system is -20 Celsius (-4 Fahrenheit) to 70 Celsius (158 Fahrenheit). All prudent/known safeguards and procedures should be observed when diving in near or sub-freezing temperatures on the surface and below.

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## POST-DIVE MAINTENANCE

To prevent permanent damage from corrosion, salt crystals, or chlorine attack, thoroughly rinse the BC inside and out with fresh water after every day of use, using the following procedure:

1. Pressurize the power inflator with low-pressure air via the quick-disconnect hose.



CAUTION: Before rinsing, ensure that the power inflator is pressurized with air. This will prevent foreign particles and contaminants from entering the valve mechanism in the event that the inflator button is accidentally depressed.

2. Using a garden hose or other fresh water source, direct water through the oral inflator to flush the interior of the bladder, and then thoroughly rinse the exterior of the BC.
  3. Completely drain the bladder of water, either through the oral inflator or through the overpressure valve, being careful to avoid operating the power inflator.
  4. Inflate the BC and allow it to dry inside and out before storing. Store the BC partially inflated, away from direct sunlight, and in a cool, dry, clean area.
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## WARRANTY INFORMATION

All warranty requests must be accompanied by proof of original purchase from an authorized Halcyon Dealer. Be sure to save your sales receipt, and present it whenever returning your BC for warranty service.

HALCYON warrants, to the original purchaser only, that the HALCYON Buoyancy Compensator will be free of defects in materials and/or craftsmanship under normal diving use for one year from the date of purchase, provided proper care is performed on all materials as described within this manual. Should your HALCYON BC prove to be defective for any reason (other than those listed in the limitations section below), it will be repaired or replaced (at HALCYON's discretion) free of charge excluding shipping and handling charges. All correspondence concerning this warranty must be accompanied by a copy of the original sales receipt. Repair or replacement is HALCYON's only responsibility and your only remedy under this warranty.



**WARNING:** It is dangerous for untrained and uncertified persons to use the equipment covered by this warranty. Therefore, use of these products by an untrained person renders any and all warranties null and void. Use of SCUBA equipment by anyone who is not a certified diver, or who did not receive training through a recognized certification agency, shall render void all warranties, expressed or implied.

ALL WARRANTIES, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO A PERIOD ENDING ONE YEAR FROM THE DATE OF PURCHASE.

Some states in the U.S. and certain foreign countries do not allow limitations on the duration of implied warranties, so this may not apply to you. This warranty gives you specific legal rights. You may have rights that vary from state to state and country to country.

HALCYON MANUFACTURING DISCLAIMS AND EXCLUDES ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

SOME STATES IN THE U.S. AND CERTAIN FOREIGN COUNTRIES DO NOT ALLOW EXCLUSIONS OR LIMITATIONS OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS MAY NOT APPLY TO YOU.

The following restrictions apply to this warranty.

This warranty extends to all power inflator parts and to the seams of the BC wing bladder.

This warranty does not extend to abrasion, punctures, or tears of the bladder, or seam separation caused by chemical attack, including prolonged exposure to chlorine.

This warranty does not extend to damages caused by improper use, improper maintenance, neglect, unauthorized repairs, modifications, accidents, fire, or casualty.

Cosmetic damage, such as scratches, fraying, and nicks, are not covered by this warranty.

This warranty does not extend to equipment used for rental, commercial, governmental, or military purposes.

This warranty covers products purchased in the United States. For warranties that may apply elsewhere, please contact your local representative.

**Failure to meet any of the above requirements will render the warranty null and void.**



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