

H2Odysey



INTRIGUE WS



SPORTPAK

H2Odysey

USER / OWNER

**BUOYANCY COMPENSATOR
DEVICE MANUAL**

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INTRODUCTION

Congratulations on the purchase of your **H2Odysey** Buoyancy Compensating Device (BCD). Your BCD is one of the key elements of buoyancy control, and has been designed and manufactured to combine design features and technology to provide you with fit and comfort in a high performance package that will enhance your time spent in the underwater world.

This manual contains information about your BCD as well as information which may affect your safety and the longevity of your equipment. Please take the time to thoroughly read this manual and become familiar with all of your SCUBA equipment before you enter the water.

This information has been put together for your safety. Please read and understand this manual completely before using your new BCD.

Before using this product in open water, familiarize yourself with its function and use in a controlled environment such as a pool. Use all equipment you would normally use for an open water dive. A BCD's function is to make diving more comfortable by allowing a diver to maintain neutral buoyancy. It is NOT a substitute for proper swimming and diving skills.

A BCD works in combination with your weight belt. It is very important for you to be properly weighted. If you over-weight, you reduce the BCD's capacity to provide positive buoyancy.

Use of this product requires training in buoyancy compensation from an internationally recognized SCUBA certifying agency (PADI, NAUI, SSI etc). Read the owner's manual and all warnings and instructions that accompany this product. Misuse of this product, or the use of improperly functioning equipment can result in uncontrolled ascents, uncontrolled descents, or loss of buoyancy control.

CAUTION

This is **NOT** a Coast Guard approved surface flotation device and will not provide face-up flotation for all users in all conditions.

Inflate the BCD slowly. Rapid inflation can cause an uncontrolled ascent that could result in air embolism, serious injury, or death. Practice is required to maintain a safe rate of ascent. The Overpressure Valve (OPV) does not control or prevent uncontrolled ascents.

Adding weights in the pockets or attaching them to the BCD may prevent you from easily releasing the weights in case of an emergency. Excess weight may impair or prevent proper operation of the BCD and may reduce the buoyancy of the BCD.

Always perform a pre-dive, dive, and post dive inspection of the BCD and have your dive buddy perform the inspections of your equipment as well. See the inspection procedures detailed in this manual for further information.

Adjust the cummerbund and attachment straps for a comfortable fit. A properly fitted BCD should not restrict your breathing when fully inflated. Before each use, check all of the bands, straps, quick-disconnect clips, and the cummerbund for wear. Have an authorized scuba equipment repair facility replace worn or damaged items before use.

Use of after-market accessories or changes to the BCD can prevent the BCD's proper functioning and result in product damage.

Always soak the air cylinder band in water before each use to allow the band to stretch. Failure to soak the band may allow the cylinder to loosen during use resulting in loss of air supply, buoyancy control, or equipment damage. Before each use check all scuba tank buckles and bands for wear. Have an authorized scuba equipment repair facility replace worn or damaged items before use.

CAUTION

Do not attach a high pressure hose to the Pneumatic Inflation Valve (PIV). The Pneumatic Inflation Valve (PIV) handles only low pressure air (150 psi or less). Read the inflator manufacturer's instructions concerning proper connection locations and procedures. Product damage or personal injury can result from improper connection.

These instructions do not necessarily incorporate all steps required under all conditions for oral inflation of the BCD underwater. Oral inflation of the BCD underwater requires special training and practice. This should first be attempted under controlled conditions with the supervision of a certified instructor.

Never breathe from the BCD Oral Inflation/Deflation Valve (OIDV) Mouthpiece. Your BCD may contain contamination that may be hazardous if inhaled.

Use of the Oral Inflation/Deflation Valve (OIDV) or the Overpressure Valve (OPV) for deflation may allow water to enter the BCD bladder. Repeated use may allow enough water in to reduce the amount of buoyancy provided by the BCD. Drain the BCD of any accumulated water after each dive.

BCD's USE and FUNCTION

Your new BCD:

Provides surface flotation:

The BCD adds to your surface buoyancy and allows you to put more effort into swimming instead of flotation. The BCD alone, however, will not necessarily provide adequate surface flotation.

Provides neutral buoyancy at various depths:

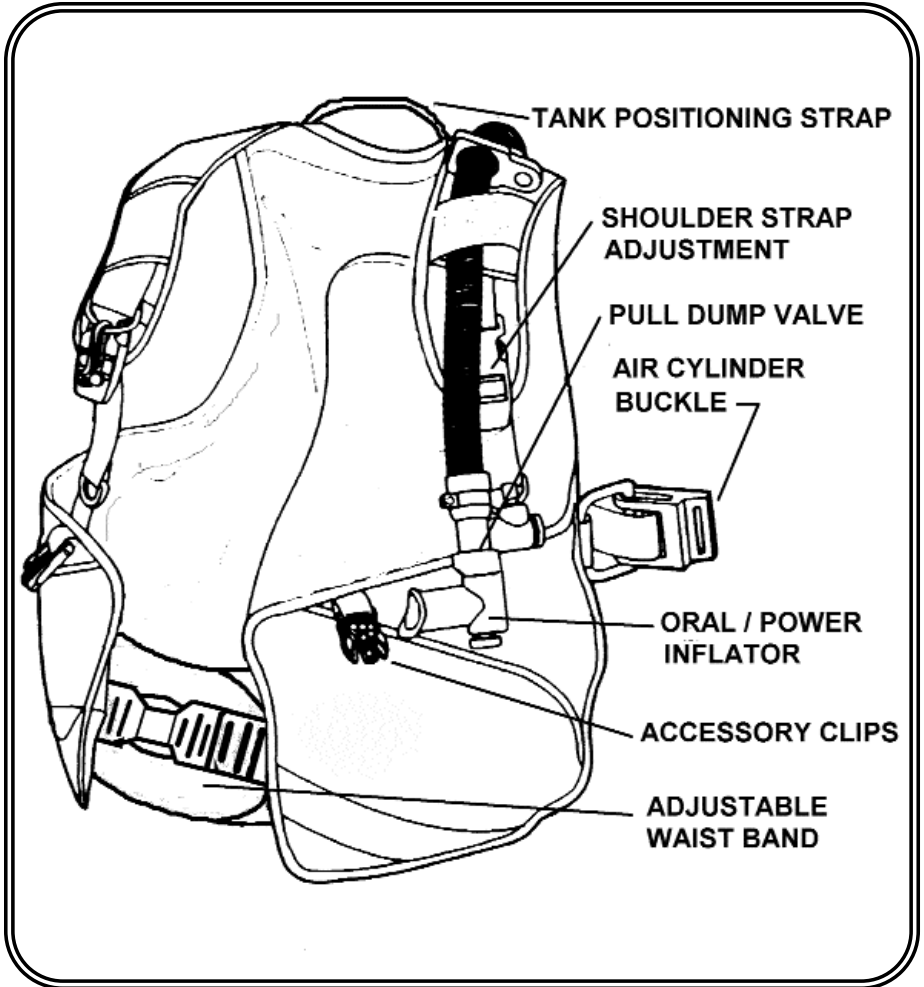
When you have reached your desired diving depth, adding or releasing the correct amount of air will assist in achieving neutral buoyancy.

Allows adjustment of Buoyancy:

The BCD provides the diver with the ability to adjust their buoyancy by releasing and adding air to the BCD.

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BUOYANCY COMPENSATOR



FEATURES

CONSTRUCTION and MATERIALS

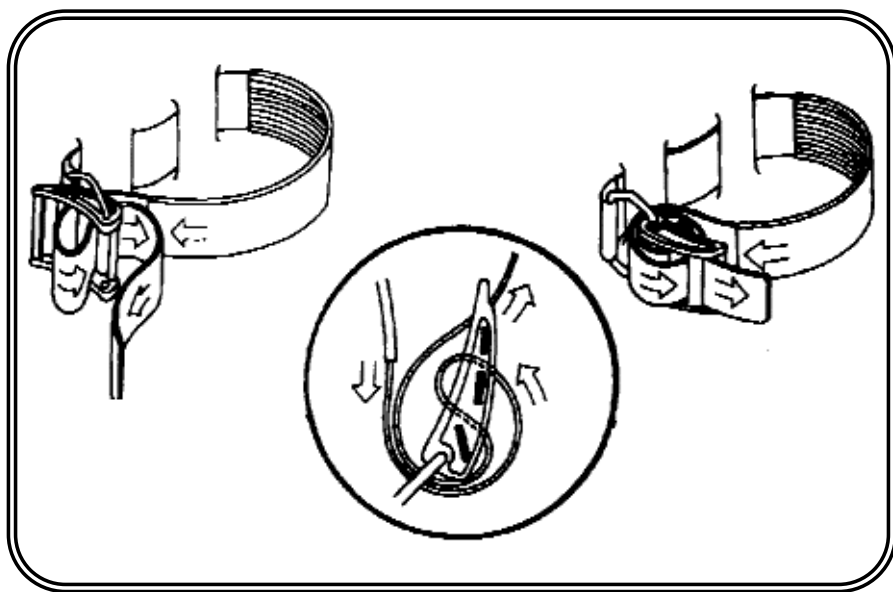
Your BCD may employ either a single bag or double bag construction. The double bag BCD is constructed of a strong nylon fabric outer shell and a durable polyurethane inner bladder. The urethane bladder is radio frequency (RF) welded to provide a durable air chamber. The single bag BCD is constructed of a single chamber made from a 420 denier nylon fabric backed by a polyurethane coating. This high strength fabric composite provides exceptional resistance to tears, abrasions, and punctures. The single bag is also RF welded to provide an exceptionally strong seal. All hardware and related items on your BCD such as buckles, D-rings, and webbing have been chosen for their superior strength and resistance to the harsh conditions the diving environment places upon them. With proper care, your BCD will provide years of service.

SCUBA CYLINDER MOUNTING PROCEDURE

Refer to the following diagrams to properly assemble the tank strap.

1. Soak the mounting bands in water. Nylon expands as it absorbs water. Soaking will permit the natural stretch of the nylon webbing.
2. Place the SCUBA tank against the mounting plate on the back of the BCD. Pull the end of the tankband around the tank.
3. Make sure that the buckle is in the "open" position.
4. Thread the end of the band between the metal ring and the plastic body of the buckle.
5. Feed the end of the band through the center slot on the top side of the buckle.

6. Feed the webbing end through the lower slot and then back through the metal ring.
7. Remove excess slack from the tankband by pulling on the webbing end.
8. Thread the end of the webbing through the top slot on the buckle. Grasp the end of the webbing and pull the buckle closed. Press the end firmly onto the hook and loop fastener on the webbing.
9. Check the entire assembly for tightness. If the assembly is not secure, retighten the webbing by unweaving the webbing end through the last slot in the buckle. Pull firmly while "rocking" the buckle to tighten. Always wet strap assembly before attaching to Scuba Cylinder.



SCUBA CYLINDER BUCKLE ASSEMBLY

TANK POSITIONING STRAP

Description and Use

Your **H2Odyssey** BCD is equipped with a **TANK POSITIONING STRAP**.

This strap will permit you to consistently replace the Scuba Cylinder on to your BCD in the **SAME** location (relative to height) each and every time you mount a Scuba Cylinder to your BCD.

To properly use the TANK POSITIONING STRAP:

A: Loosen the strap to its full open position.

B: Slide the BCD. on to a Scuba Cylinder at the required height of the Scuba Cylinder Valve.

C: Verify the height of the Scuba Cylinder Valve is correct.

D: Draw up the slack on the TANK POSITIONING STRAP.

E: Lock the Scuba Cylinder Retaining Strap into position.

F: Verify desired height of Scuba Cylinder Valve.

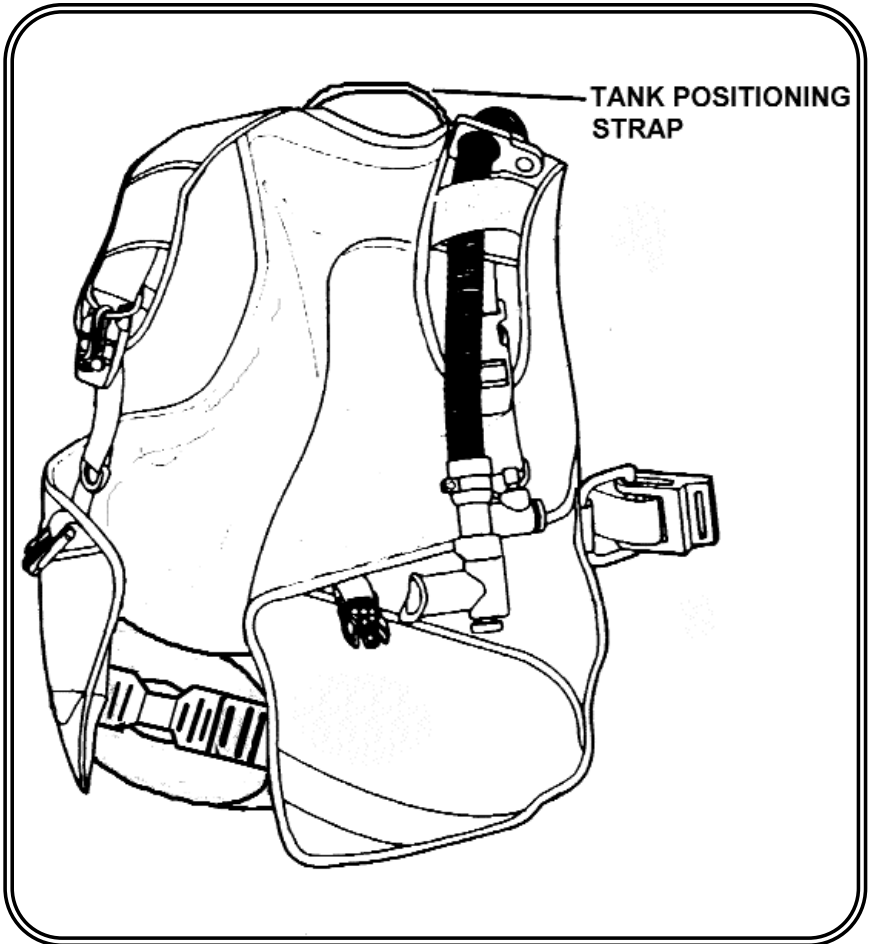
G: If this position is correct, you may remove Scuba Cylinder.

H: Your **H2Odyssey** BCD will now **REPEAT** the location of the Scuba Cylinder each time you put a different Scuba Cylinder, of the same dimension, on your BCD.

NOTE:

If the location of the Scuba Cylinder Valve is incorrect, repeat steps A through G until desired height is achieved.

BCD TANK POSITIONING STRAP



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DONNING and ADJUSTMENT

of your **H2Odysey** BCD

Your **H2Odysey** B.C.D. has been designed to make adjustments to the waistband and shoulder straps a “one time” adjustment. Your B.C.D. may be used either with a Wet Suit or Dry Suit with only a “one time” adjustment. Upon completion of adjustment, you may either doff or don the BCD without further adjustment.

TO ENSURE A PROPER AND COMFORTABLE FIT PLEASE FOLLOW INFORMATION ON PAGE 9/10.

- A: Release Cummerbund Buckle Assembly (3).
- B: Open Cummerbund completely (4).
- C: Retract the Shoulder Straps completely to put the “D-Rings”(2), closest to the Buckle (1).
- D: Put the BCD on (no scuba tank) and pull on the “D-Rings”(2) to bring the shoulder straps close to your body but not tight. the straps should feel a little snug, but not tight. In the final position the straps will feel snug, but comfortable to wear.
- E: First, fold the **RIGHT** side of the Cummerbund flap (4) flat across your stomach and then fold over the **LEFT** side of the Cummerbund flap (4).
- F: Press the VELCRO flap to connect the VELCRO to the other flap. The Cummerbund (4) should feel snug, but not uncomfortable or too tight in any way.
- G: When Cummerbund is adjusted completely, open adjustment (webbing) on the Cummerbund Buckle (3) completely.
- H: Snap Cummerbund Buckle and check adjustment. If adjustment is too loose, open Cummerbund Buckle (3) and take-up some slack in webbing and try again.
- I: Continue until the Cummerbund Buckle feels snug, but not tight.
- J: Adjustment is now complete.

BCD ADJUSTMENTS SHOULDER and CUMMERBUND

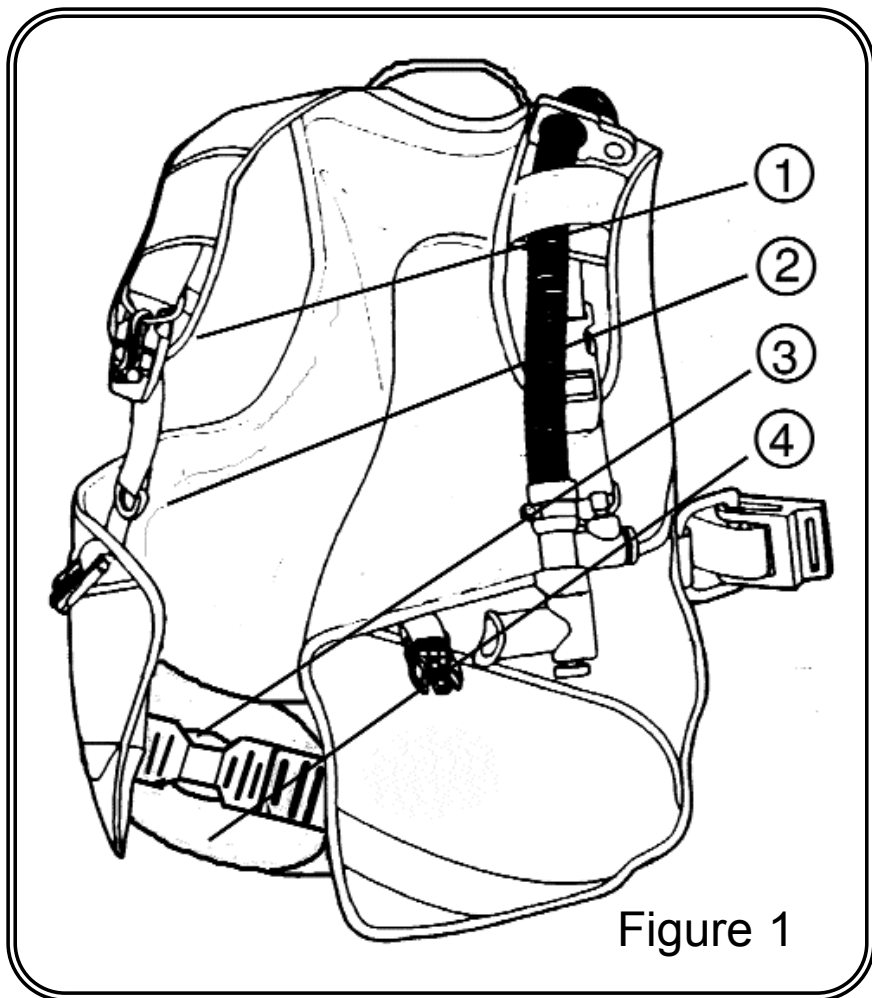


Figure 1

H2Odysey

DOFFING (REMOVAL)

of your

***H2O*dysey BCD**

TO REMOVE YOUR BCD

- A:** Inflate your BCD slightly.
- B:** Open Cumberbund Buckle (3) completely.
- C:** Grasp **LEFT** Side of Cumberbund Flap and pull from **VELCRO**.
- D:** Open one Shoulder Strap Buckle (1).
- E:** You may now slide out of your BCD.

DRAINING YOUR BCD

- A:** Slowly **INFLATE** BCD until firm.
- B:** Remove Scuba Cylinder.
- C:** After removal of your Scuba Cylinder it is important that you drain all of the water from inside of your BCD.
- D:** Turn BCD upside down and point Inflator **DOWNWARD** and **DEPRESS ORAL INFLATOR** Button to release all of the air and remaining water in BCD
- E:** Repeat if necessary to purge all water from inside of BCD.
- F:** Rinse inside (using fresh water) of BCD to remove any salt water if present.

PRE-DIVE

BCD EXAMINATION

The pre-dive, dive, and post-dive BCD examinations help identify equipment problems before unsafe conditions exist. Equipment-related diving accidents can be prevented by following these simple steps and having all equipment regularly inspected by an authorized scuba equipment repair facility.

VISUAL INSPECTION

Examine the entire BCD for cuts, punctures, frayed seams. Excessive abrasion or other damage. If there is any doubt of the condition of the BCD, do not dive.

Inspect the OIDV/PIV Assembly for any cracks or damage. Check the OIDV Button and OIDV mouthpiece for sand or other debris. Check the EDV (2) EXHAUST DUMP VALVE and the OPIV (7) housings to make sure they are free from damage, sand and or other debris.

OPERATIONAL INSPECTION

After the visual examination, it is recommended to test the BCD's operating systems.

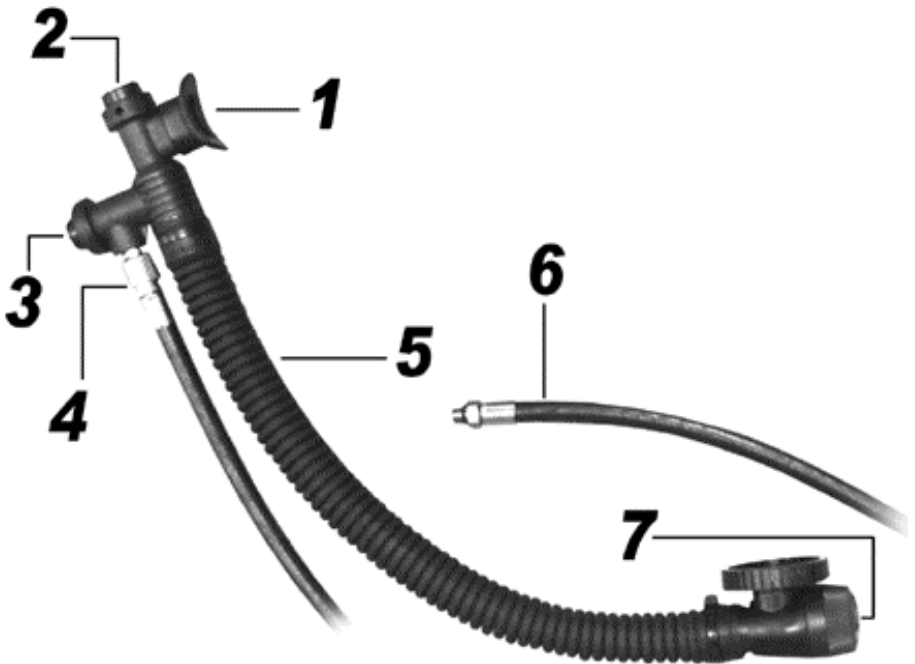
Test the oral inflator by inflating the BCD through the oral inflator mouthpiece(1). Check the inflation system and the BCD for leaks. Let the BCD stand inflated for 30 minutes or more. Check the BCD for any loss of air.

Test the power inflator by attaching the male quick connect (4) to the pressurized L.P. hose (6) and depressing the power inflator button (3). Check the inflation system and the BCD for leaks. Let the BCD stand inflated for 30 minutes or more. Check the BCD for loss of air. Allow the BCD to remain connected to the pressurized L.P. hose. Deflate the BCD using the deflator button (2) and allow to stand uninflated for 30 minutes or more. Leakage through the power inflator (3) will be evident if the BCD self inflates.

Test the dump valve by pulling on the inflator assembly. The internal cable will activate the upper dump valve (7). The valve should close properly upon release.

OPERATIONAL INSPECTION (cont.)

Your **H2Odysey** BCD is equipped with **TWO (2) OPV's**. One (1) is located on the **LOWER RIGHT SIDE** of your BCD. The other on the **INFLATOR HOSE**. To check the **LOWER RIGHT SIDE OPV**, inflate BCD until **FIRM** and pull on cord lightly coming out of OPV. If air is released, OPV is functioning. Check OPV (7) operation by **slowly** over inflating the BCD. Fill the BCD until it is firm, then continue to add air in small amounts. Do this cautiously in case the valve is malfunctioning and does not release. Once the maximum internal pressure for the BCD is reached, the OPV (7) will open. You will hear air escaping through the valve. If the OPV (7) fails to open or if there is any question about its operation, have the BCD checked by an authorized scuba repair facility. If the OPV (7) has a Pull Dump Assembly, make sure it operates by pulling on the cord.



DIVE

BCD EXAMINATION and PROCEDURES

This is the final BCD check before you begin your actual dive. The examination can be performed on the beach, on the boat, or on the water's surface next to the boat.

OPERATIONAL INSPECTION

After your gear is assembled and you have put your BCD and scuba cylinder on, perform the following operational check.

Check the PIV (3) and the OPV (7). Inflate the BCD using the PIV (3) until the OPV (7) opens to exhaust the excess air. Use short bursts of air instead of one long flow to better control the inflation of the BCD.

Leave the BCD inflated for 60 seconds and check for any leaks. If you are at the water's surface, you may not hear any leaks but you may see a steady stream of air bubbles which could indicate a leak. Use your dive buddy to help with this check.

Check the EDV (2): Deflate the BCD using the EDV (2). You should hear the air exhausting out of the EDV from the mouth-piece(1).

Check the OIDV (2): Orally inflate the BCD using the OIDV (2). Leave the BCD inflated for 60 seconds and check for any leaks. Deflate the BCD using the OIDV (2).

Have your dive buddy check the tank band for proper assembly and tightness. (See instructions on page 6).

Check that all connections are secure.

If the BCD fails to pass any of these tests or there is any doubt about any of the components, **DO NOT DIVE WITH THE BCD**. Have the BCD inspected by an authorized repair facility.

POST DIVE
BCD EXAMINATION and PROCEDURES

With proper care your BCD should provide many years of use. Maintenance procedures are as follows:

AFTER DIVING:

Rinse the BCD thoroughly inside and out with fresh water after every use. Use the following procedure:

- A) Fill the BCD inner bladder approximately one fourth full of fresh water.
- B) Orally inflate the BCD and shake to distribute the water throughout the inside of the BCD.
- C) Hold the BCD upside down. Depress the oral inflator button and allow the water to drain from the oral inflator mouthpiece.
- D) Repeat this rinsing procedure one or two times more.
- E) Rinse the exterior of the BCD by dipping it into a tub of fresh water.
- F) Rinse all valving to make sure that sand or other debris is removed.
- G) Hang the BCD out of the sun and allow to dry completely.
- H) Partially inflate the BCD and store in a dark and dry location.

PLAN YOUR DIVE
DIVE YOUR PLAN

IMPORTANT INFORMATION

Avoid prolonged exposure to direct sunlight or excessive heat. The ultraviolet rays of the sun will shorten the life span of the BCD materials.

Keep sharp objects from coming into contact with the BCD.

Do not rest heavy objects on the BCD. Do not drag your equipment over rough surfaces.

Periodically lubricate the quick connect coupling with silicone lubricant.

Chlorine can be especially harmful to the BCD materials. Rinse the BCD thoroughly after pool use.

Use only fresh water and mild soap to clean the BCD. Chemical, strong detergents or solvents could damage the BCD.

It is recommended that the BCD be inspected yearly by an authorized SCUBA repair facility.

NAME:.....

ADDRESS:.....

CITY:.....STATE:.....ZIP:.....

MODEL NUMBER:.....

MODEL NAME:.....

DATE PURCHASED:.....

SERVICE DATES:.....

BUOYANCY COMPENSATOR LIMITED WARRANTY

WHAT IS COVERED

This warranty covers to the original owner, all defects in material or workmanship in any Buoyancy Compensator sold by **H2Odysey**.

WHAT IS NOT COVERED

This warranty does not cover damage, failure or loss caused by wear or tear, failure to perform normal maintenance on **H2Odysey** items. Cosmetic damage such as scratches, tears, punctures, discoloration or any damage failure or loss caused by:

- 1: Accident misuse neglect, abuse, or improper maintenance.
- 2: Failure to follow instructions in the USERS GUIDE.
- 3: Rental, Training Class, Military, or Commercial usage.
- 4: Use by uncertified (ie. PADI, NAUI, SSI, etc.) persons.

FOR HOW LONG

The warranty coverage is limited lifetime on the Buoyancy Compensator Air Cell Radio Frequency (RF) seams and airway assembly (inflator, corrugated hose and dump valve mechanism). The warranty coverage on low pressure hose assembly, sewn seams and non aircell materials have a one (1) year limited warranty on **H2Odysey** BCD'S to the original purchaser, under the terms and conditions defined below.

Within the warranty period, **H2Odysey** will at its option, either repair or replace (with same or equivalent product) the defective in warranty product, part or accessory. Cost of labor for warranty is not covered by warranty. **The product must be accompanied by a dated proof of purchase for warranty service.** As a matter of warranty policy, **H2Odysey** will not refund the consumers purchase price.

NO LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES

Repair or replacement of defective products, parts or accessories specified above are Your sole Remedy under this warranty and IN NO EVENT SHALL **H2Odysey** BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

HOW YOU CAN GET SERVICE

Contact your authorized **H2Odysey** Service Center or write to **H2Odysey**, 975 Park Center Dr, Vista CA 92083 for the name and address of your nearest authorized **H2Odysey** Service Center.

YOUR RIGHTS UNDER THE LAW

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

IMPORTANT NOTE

The above warranty applies to product sold and serviced in North America and Caribbean. Consult your local dealer or importer for details of warranty coverage in your country. Product purchased in the United States, Canada, or Caribbean but serviced in other counties will be subject to the warranty conditions in effect in the country of use and service.

<http://www.h2odysey.com>