

# LTS BCD USER GUIDE



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#### NOTICES

#### LIMITED WARRANTY

For details, refer to the Product Warranty section on the Hollis web site: www.HollisGear.com

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#### TRADEMARK, TRADE NAME, AND SERVICE MARK NOTICE

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#### PATENT NOTICE

U.S. Patents have been issued, or applied for, to protect the following design features: Backpack Systems (U.S. Patent No. 5,378,084), Gas Impermeable Laminate (U.S. Patent No. 5,693,412), Harness Buckle (U.S. Patent No. D409,114), Weight Drop System (U.S. Patent No. 5,218,745), and Soft Backpack (U.S. Patent No. 4,952,095). Other patents pending.

## EC TYPE EXAMINATION CONDUCTED BY:

SGS United Kingdom Ltd, Weston-super-Mare, BS22 6WA, UK Notified Body No: 0120' Compliance with EN 1809:1997 Compliance with EN 250:2000

#### DANGERS, WARNINGS, CAUTIONS, AND NOTES

Pay attention to the following symbols when they appear throughout this document. They denote important information and tips.

- DANGERS: are indicators of important information that if ignored would lead to severe injury or death.
- **! WARNINGS:** are indicators of important information that if ignored <u>could</u> lead to severe injury or death.
- ! CAUTIONS: are indicators of information that if ignored may lead to minor to moderate injury.
- ! NOTES: indicate tips and advice that can inform of features, aid assembly, or prevent damage to the product.



# | WARNINGS |

- Hollis BC's are intended for use by divers who have successfully completed a nationally recognized course in scuba diving.
- As with all underwater life support equipment, improper use or misuse of this product can cause serious injury or death.
- Improper use of the oral inflation/deflation or dump valve assemblies may allow water to enter the BC resulting in a subsequent reduction in buoyancy. Loss of buoyancy control could result in serious injury or death.
- The LTS is designed for operating temperatures between 1° and 40° C.
- This is not a life jacket; it does not guarantee a head up position of the wearer at the surface.
- Prior to each dive, inspect and test your BC for proper operation. If any part does not function properly, DO NOT USE!
- DO NOT inhale gases from within any Hollis BC.
- If you do not fully understand how to use your Hollis BC, or if you have any questions regarding its functions, you should seek instruction in its use from your authorized Hollis dealer before you utilize this product.
- Read and understand the owner's guide completely before diving with any Hollis BC.
- Have your Hollis equipment inspected and serviced annually or any time you have any concern about your equipment's function or condition by an authorized Hollis dealer.
- Any questions or concerns may be directed towards your local Hollis dealer. Alternately, you may contact one of our technical support representatives at 888-383-DIVE or info@hollisgear.com.
- It is the diver's responsibility to assure that fully configured, ready to dive systems are able to achieve neutral buoyancy at the beginning and end of any dive. Select a BCD with adequate lift for the equipment being used.

# INTRODUCTION

#### **ASSESSMENT OF RISK**

Hollis BC's are designed and intended for use by divers who have successfully completed a nationally recognized course in scuba diving. Hollis equipment must **NOT** be used by untrained persons who may not have knowledge of the potential risks and hazards of scuba diving. As with all underwater life support equipment, improper use or misuse of this product can cause serious injury or death.

#### **SPECIFICATIONS**

- 1000 Denier nylon outer & 420 Denier internal bladder
- Lift: 30 lb (13.6 kg)
- Two 5 lb (2.27 kg) pockets, integrated weight system
- · Lower left dump valve

# CARE AND MAINTENANCE

Your Hollis BC is a reliable piece of equipment that was designed to withstand the rigors of diving. It will last for many years if cared for properly. Follow the procedures below to ensure a long life for your BC. You should have the entire BC inspected and serviced annually by an authorized Hollis dealer to ensure it is operating properly and no components are showing signs of wear.

#### PRE DIVE CARE

Before each dive check to make sure your equipment is working properly. If any piece of equipment is not working properly, **DO NOT USE!** If damaged, return to your authorized Hollis dealer for repair.

- Under pressure, attach the low pressure inflator hose to the inflator and depress the inflator button to make sure it is working properly.
- · Check for leaks at the connection of the inflator.
- Check oral inflation/deflation button is working properly.
- Fill the BC system with air and check to make sure there are no leaks in the bladder.
- Check all dump valves to ensure air is not leaking in the closed position and that the air can be easily dumped.

#### **POST DIVE CARE**

To keep your BC in top condition, follow these procedures, in sequence, after each day of diving:

- Fill the BC one third full of fresh water through the inflator mouthpiece.
- Inflate fully, then rotate and shake, ensuring a complete internal rinse.
- Hold upside down and completely drain the water through the mouthpiece.
- Thoroughly rinse the outside of the BC with fresh water.
- Store partially inflated out of direct sunlight in a cool dry place.
- Periodically add BC disinfectant or Steramine<sup>™</sup> (available in dive stores) to rinse water to kill any bacterial growth.
- Transport your BC in a padded carrying case or equipment bag, separated from sharp items (e.g., dive knife, spear gun, etc.) that might puncture the bladder.
- You should also protect the inflation system from damage due to heavy objects (e.g., dive light, weights, first stage, etc.).

# INFLATOR AND DUMP VALVE USE

W	LP Hose Connector
Х	Power Inflator Button
Υ	Mouthpiece
Z	Deflate/(Manual Inflate) Button



working pressures: min = 120 psi (8 Bar), nominal = 140 psi (9 Bar), max = 160 psi (11 Bar)

INOTE: Install the inflator hose to your regulator per your regulator's instructions, or have an authorized technician attach the LP hose to the regulator first stage.

#### **MANUAL INFLATION**

To manually inflate the BC, depress the manual inflation button and blow into the mouthpiece. Be sure to release the manual inflation button before you remove your mouth from the mouthpiece to ensure you do not lose any air through the mouthpiece. Repeat until desired buoyancy is achieved.

#### **POWER INFLATION**

To power inflate the BC, depress the power inflator button. This can only be achieved when the low pressure inflator hose is connected and under pressure from the regulator 1st stage. Use short bursts of air to inflate the BC being careful not to add too much air.

WARNING: If you depress the Power Inflator fully, the BC will inflate rapidly. Be careful not to overinflate the BC causing an unwanted rapid rise towards the surface.

#### DEFLATING THE BC WITH POWER INFLATOR OR DUMP VALVE

To deflate the BC using the inflator, hold the inflator higher than the top of the BC and depress the deflate button to release the air. To deflate using the dump valve or, lightly pull the knob outwards and upwards. For the corrugated hose dump, simply pull on the inflator end of the hose. In all methods the vent must be at the highest point of the BC to ensure complete deflation of the BC. While underwater, be sure to release the deflate button or dump valve before all air is released, to prevent water from entering the BC.

# ATTACHING THE LP (LOW PRESSURE) INFLATOR HOSE

With the inflator hose attached to the regulator, connect the regulator to a pressurized SCUBA tank. Grasp the QD (Quick Disconnect) end of the LP inflator hose and pull back the coupling release and press it onto the connector on the inflator system and let go of the coupling. Make sure the LP hose is securely attached before pressurizing the regulator system. Pressurize the regulator system by slowly opening the tank valve. Now press the power inflator button until you hear air flowing into the BC.

#### **BUOYANCY CONTROL**

Using the inflation and deflation methods described will help you maintain neutral buoyancy throughout your dive at different depths. A diver who practices buoyancy control can hover in mid water without varying depth. Having good buoyancy control will allow a diver to shed unnecessary lead weight and use less energy creating a longer, more relaxed dive.

# ATTACHING A TANK

The LTS is only designed to handle a single tank and uses a single cam band and guide strap. Use the attached adjustable guide strap to position the tank on the LTS by placing it around the neck of the tank (*Fig.* 1).



Fig. 1

I NOTE: The upper cam band slots are for use only with shorter tanks i.e. HP 60, AL 60; etc. For proper stabillity with standard tank sizes, use the lower cam band slots.

Use the following steps to weave the cam band. Nylon may loosen when wet, to ensure an extra secure hold, soak the straps in water before tightening:

- Pull the band through SS (Stainless Steel) attachment at the base of the buckle (Labeled 1) so the band is now on the outside of the buckle (*Fig. 2*).
- Now weave the band through the middle slot (Labeled 2) from outside to inside (Fig. 3).







Fig. 3

Now weave the band through the bottom slot (Labeled 3) of the buckle so the band is against the tank (Fig. 4, 5). Pull the band tight to make sure there is no slack around the tank or in the buckle weave (Fig. 6).







Fig. 5 Fig. 6

• With the band tight, weave the band through the top slot (Labeled 4) of the buckle from inside to outside (*Fig.* 7). Pull tight and fold the buckle over so it snaps against the tank (*Fig.* 8, 9). Now attach remaining webbing to the webbing against the tank using the self gripping patch (*Fig.* 10).







Fig. 7 Fig. 8 Fig. 9



Fig. 10

# INTEGRATED WEIGHT SYSTEM

#### LOADING WEIGHT POUCHES INTO WEIGHT POCKETS

The LTS utilizes removable zippered weight pouches. Each pouch can be filled with up to 5 lbs (2.27) kg hard or soft weight. Once loaded with weight, place the weight pouches inside the pockets on the LTS waist, as shown (*Fig.* 11). Then close the zippers, and ensure that the lower velcro closures are fastened closed (*Fig.* 12).





Fig. 11

Fig. 12

- WARNING: The maximum weight capacity for each weight release pocket is 5 lbs (2.27 kg).

  Amounts that you can actually load may be less due to the type and shape of weights being used.
- WARNING: Prevent the weight from getting hung up in the pockets by ALWAYS using the included zippered pouches and NEVER overloading the pockets.
- WARNING: Inspect the velcro closures for wear before diving. Excessively worn velcro closures may lose their holding strength, leading to accidental weight loss during a dive.

### DROPPING WEIGHT POUCHES FROM THE POCKET

In an upright position, grasp the handles of both pockets (right and left). Then pull down on the handles, releasing the velcro tabs (*Fig.* 13). The weight pouch will slide free (*Fig.* 14).







Fig. 14

- WARNING: Dropping the weights will present you with immediate positive buoyancy.
- WARNING: Practice this technique with and without weights while out of the water.
- WARNING: Use of the weight drop system may not afford the diver with face up flotation.

# STERNUM STRAP

The sternum strap is adjustable. It can be installed in one of multiple positions or simply removed to suit diver preference (*Fig.* 15, 16, 17).

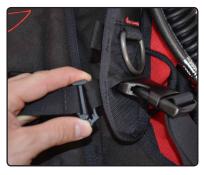






Fig. 15 Fig. 16 Fig. 17

# DONNING & FITTING

Before any dive make sure that your BC System fits properly. With your required exposure suit on, don your BC System. Make sure it fits comfortably, but is not too tight around your shoulders, waist, and crotch (when using a crotch strap). Two fingers laying flat should fit snugly between the shoulders and webbing. Make any adjustments as necessary. Adjust the D-rings and clips to your desired position. A good starting point is a position where you can reach your chest, with your hand held flat horizontally, and holding your arm and hand parallel to the ground. Fine tune the fit as needed.

NOTE: If you have any questions regarding your Hollis gear, visit your authorized Hollis retailer or contact Hollis Inc. and speak with one of our technical support representatives.

RECORDS						
LTS SERIAL NUMBER:						
DATE OF PURCHASE:						
HOLLIS DEALER:						
DEALER PHONE NUMBER:						
INSPECTIONS AND SERVICE						
DATE	SERVICE PERFORMED	DEALER/TECHNICIAN				

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