



J800 HOPE BUOYANCY COMPENSATOR  
OWNER'S MANUAL

EN1809  
CE 0120

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## I. INTRODUCTION

THANK YOU FOR CHOOSING IST J800 HOPE Buoyancy Compensating Device (BCD). Only the best materials specifically suited to diving conditions were used and your new BCD was designed, developed, and made according to the highest standard in diving equipment manufacturing so you can have many years of reliable service from it.

Notice: Buoyancy compensation device is considered a Personal Protective Equipment (PPE). IST J800 HOPE BCD was submitted for testing and design validation, and was certified according to Art. 10 of Directive 89/686/EEC by:

SGS United Kingdom Ltd. (Notified body No. 0120)  
202B Worle Parkway,  
Weston-super-Mare, BS22 6WA  
United Kingdom

The  marking on this product represents compliance to the basic health and safety requirements of Annex II of Directive 89/686/EEC (European standard EN1809: 1997 (Category II PPE)). The number 0120 represents the certifying body SGS UK Ltd., which was entrusted to perform such task for the EC quality control system according to Art.11 A of Directive 89/686/EEC. The manufacturing process is carried out under strict supervision by:

IST Sports Corp.  
Room A, 6<sup>th</sup> Floor, No. 6, 345 Lane,  
Yangkuang Street,  
Taipei,  
Taiwan.  
Tel: +886 2 26272516 / Fax: +886 2 26599056

## II. GENERAL WARNING AND CAUTION

Please read and thoroughly understand this owner's manual and the label affixed to the BCD before using this product. If there is anything not clear, do not use this product and please contact your nearest authorised IST dealer with your queries.

Do not use this BCD if you have not received proper dive training and certification from a recognised scuba training agency.

This is not a life jacket. It does not guarantee the wearer to always be in a head-up floating position at the surface.

Improper use or intentional misuse of this product may cause serious injury or death.

Do not inhale gas from within this BCD

Maximum recommended cylinder capacity (with max. 8" / 203mm diameter) is 15 litres.

Do not use this BCD as a lift bag. It is not designed for this purpose and by doing so can result in uncontrollable ascent, which could lead to serious injury or even death.

Prior to each dive, fully inflate the BCD and inspect for leakage, damage and proper operation.

Before diving with this BCD in open water, it is highly recommended to familiarise yourself with it first in confined water.

Ensure that you have clear access to the weight belt so it can be easily and quickly released without any obstruction when required in an emergency.

**Do not** use this BCD deeper than 50m (164ft) below surface.

**Repair**, maintenance task and any disassembly must only be performed by an authorised IST dealer. Unauthorised service will render the warranty void and may cause this product to malfunction.

Temperature range for using this BCD:

Air	-20°C ~ 50°C / -4°F ~ 122°F
Water	-2°C ~ 40°C / 28°F ~ 104°F

Definition of **WARNING**, **CAUTION** and **ATTENTION**:



### **WARNING**

Indicates a situation that, if not avoided, will result in serious injury or death



### **CAUTION**

Indicates a situation that, if not avoided, may result in serious injury or death.



### **ATTENTION**

Indicates a situation that, if not avoided, may result in minor or moderate injury or damage to your scuba equipment.

III. USING THE BCD

Power inflator

The power inflator is located in the end of the corrugated inflator hose. Its working pressure is 7.6BAR (110psi) ~ 11BAR (160psi) while the ideal pressure is between 9.5BAR (138psi) ~ 10BAR (145psi).

Inflator button: Use thumb to press the inflation button to inflate the BCD.



Deflation / oral inflation button: Use index finger to press the button to 1) deflate the BCD; 2) orally inflate the BCD through the mouthpiece.



△ Using J800's oral inflator while diving is a skill to be learned under the supervision of a certified scuba diving instructor.

△ Depressing the oral inflator button while the BCD is empty may allow water to enter the bladder!

Attaching low pressure inflator hose

- 1) Make sure there is an o-ring present in the male end of the low pressure BC hose.



- 2) Screw the hose into a low pressure port in your regulator's first stage. It is recommended to route the hose directly over the left shoulder.



△ Only attach the hose to a regulator's low pressure port. Attaching to the high pressure port can cause the hose to burst, which may result in serious injury or death.

- 3) Pull back the quick disconnect sleeve in the female end of the low pressure BC hose and connect it to the power inflator's quick disconnect nipple.



- 4) Open the tank valve SLOWLY. Check for any air leakage and proper power inflator function before using the BCD.



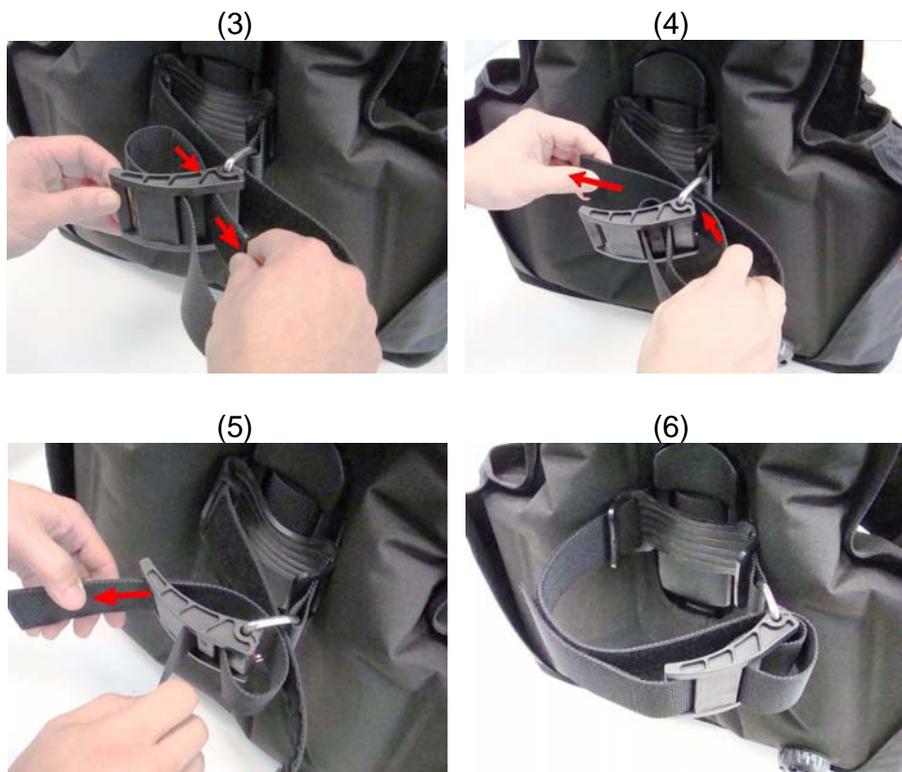
### Rapid exhaust valve

It is located over the left shoulder (connected to the power inflator by the BCD's corrugated hose). It automatically releases air when the air pressure inside the bladder is 0.17kg/cm<sup>2</sup> (2.4psi) over the ambience. You can also conveniently vent gas in the BCD (by pulling downward while holding onto the power inflator) to reduce buoyancy while diving.



### Threading the tank band





### Attaching the BCD to the tank



Always check the tank band's threading before attaching it to a scuba cylinder.



Wet the tank band first as the nylon webbing can stretch a little in this state.



Make sure the metal ring is as close to the BCD as possible (as picture 6 above). This will provide the greatest range of adjustment.

Loop the tank locator strap over the tank valve. Adjust it to hang the BCD at a height which the right hand can reach back and turn the valve on / off but without the head hitting the valve when bending back.

### Tank locator strap



Open the buckle and pull the free end of the band until tight. Half-close the buckle and thread the free end of the band through the end slot of the buckle. Close the buckle and secure the Velcro closure.



### Donning the BCD

Loosen each shoulder strap to its maximum length by lifting up the bottom edge of the buckles. Open up the sternum strap waist strap

buckle and cummerbund. Ask a dive buddy to hold the BCD (with cylinder attached) steady so you can put the arms through.

Shoulder strap buckle



Sternum strap



Cummerbund



Adjust the shoulder straps (by pulling the webbing through the shoulder strap buckle while holding onto the D-rings) and fasten the cummerbund until snug.



At this point your dive buddy can slowly let go the BCD and cylinder. Bend forward at the waist and tighten the shoulder straps and cummerbund further.

Close and tighten the sternum and waist strap until snug but not restricting movement and breathing.

Sternum strap



Waist strap



### Over pressure relief valves

Located on the right shoulder and behind the right waist, they automatically release gas when pressure inside the bladder is 0.17kg/cm<sup>2</sup> (2.4psi) over the ambience. You can also pull either handle to adjust buoyancy as needed.



## Cummerbund adjustment

To adjust the cummerbund length, loosen the back plate end of the cummerbund and re-secure the Velcro as shown below.



Please note the adjustment should have an overlap of at least 10cm (4") after the closing of the cummerbund.



This BCD is not weight-integrated. Do not use its pockets to store any weight. The inability to remove weight quickly is dangerous and can result in serious injury or death. Use a weight belt instead.

## BCD care and storing

- Do not put or drag the BCD across rough and / or sharp surfaces.
- Do not place any sharp and / or heavy object on the BCD.
- Do not expose the BCD to the sun while not actually diving.
- After dive, rinse the BCD both inside and outside with fresh water. To rinse the inside, press the deflation button to let fresh water into the bladder through the power inflator mouthpiece. Shake the BCD so all corners can be rinsed then drain the water out completely in turn through the rapid exhaust valve and 2 over pressure valves. Repeat this process a few times.
- Fully inflate the BCD and allow it to dry inside and out.



Do not put your BCD away until it is completely dry!

- Store the BCD slightly inflated in a cool, shaded place.
- Have an authorised IST dealer to perform a thorough inspection of this BCD at least once a year.



Do not hang the BCD on hook as the bladder can be easily damaged.



#### IV. BUOYANCY DATA

Sizes	Newton	Pound force
XXS	70N	15lbf
XS	120N	2lbf
S	140N	31lbf
M	170N	38lbf
L	220N	49lbf
XL	270N	60lbf

#### V. WARRANTY



Use of non-factory parts or any modification may (irreparably) damage this BCD, which can lead to a loss of buoyancy control or air holding capability while diving. This could result in injury or death, and will void your warranty. ONLY replace worn or damaged items with genuine, factory supplied or specified parts.



Your BCD should be inspected by an authorized IST dealer at least once a year, and more often if you dive frequently. This is a required action to keep your warranty in effect

The warranty of this floatation device is valid to the original owner only (with proof of purchase) AND it covers any defects in materials and / or workmanship for the period of 2 years from the date of purchase. Proper maintenance as prescribed in this manual is required. This warranty does not cover any wear and tear under normal usage. The following action will also invalidate the warranty: incorrect use of the BCD, the use of non-original parts, any commercial / rental usage, any modification, servicing task performed by an unqualified, non-IST authorised dealer.

If a problem has developed with your BCD, please contact your nearest authorised IST dealer or IST distributor for return authorisation. Please properly package the BCD and send with your proof of purchase with postage prepaid. We reserve the right to service any **non-authorised** returns.

VI. PURCHASE & MAINTENANCE RECORD

Serial #	
Date of purchase	(dd) / (mm) / (yy)
Dealer's name & address	
	(Dealer's stamp)
Purchaser:	
Address:	

Tasks performed:	
Service person:	
Date of service:	
Dealer:	

Tasks performed:	
Service person:	
Date of service:	
Dealer:	

Tasks performed:	
Service person:	
Date of service:	
Dealer:	

Tasks performed:	
Service person:	
Date of service:	
Dealer:	

Tasks performed:	
Service person:	
Date of service:	
Dealer:	



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