

OCT 2

OPERATING MANUAL

Introduction

Thank you for purchase of our product.

This manual is the guidebook to provide instructions on how to use your OCT 2, an inflator with octopus function, which is used attaching to a Bism made B.C. for recreational diving.

We believe this manual is useful in mastering technology of a regulator and a B.C. for people who have learned the right usage of a regulator and B.C., and obtained a C-card through proper training at a diving instruction organization as well as people who use it at C-card training. Please carefully read and digest the contents of this manual before use. We also suggest that you take this manual with you to refer to before diving.

Keep this manual in a safe place. If you lose it, contact your original dealer or authorized distributor of our company. A replacement manual will be reissued later

The main contents consist of the check before use, usage, care after use, storage, and a periodic inspection.

This product is diving gear to use in combination with B.C. for recreational diving. Therefore, the knowledge of the right handling of B.C. is also necessary. Please use the operating manual of the combination equipment which you use as well as this manual.

In addition, depending on the model of regulator, it is considered not being suitable for the use by the combination with this product. We recommend you use by the combination with the equipment made by Bism.

We are constantly researching and improving our safety second, and so the product you purchased may differ in certain details from the one described in this manual. If you have any queries regarding your safety second or the information contained in this manual, please feel free to contact our company at the address lower right.

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Key to Symbols Used in this Manual

🛕 Danger

Danger indicate a great risk of death or serious injury from improper use.

Marning

Warning indicate a risk of death or serious injury from improper use.

A Caution

Caution indicate a risk of minor injury or damage to property from improper use.

[Note] Useful Information to know.

Bism CORPORATION

5F, 3-6-18, Higa shinihonba shi, Chuo-ku, Tokyo 103-0004 Japan

Phone: +81-3-5640-8126 Fax: +81-3-5640-8131

E-mail: info@bism.co.jp URL: http://www.bism.co.jp

IMPORTANT INFORMATION

Purpose of Use

This product is diving gear for recreational diving use.

The connection with the Bism made B.C. allows the use, and is a diving equipment which performs buoyancy control by "supply and an exhaust of the air to B.C.", and emergency spare breathing by "supply of the air in a tank.

Before Use

It is vital to safety that you use and maintain your regulator correctly and have it inspected periodically. Carefully read and understand the advice on safety given in the manuals of this product and also the combination equipment which you use before diving.

■ Use only for recreational diving.

A Warning

- Do not use this product for any purpose other than recreational diving.
- Obtain C-card before use.

A Warning

Use this product after having obtained a C-card and completing a proper training program at a recognized diving school, and be familiar with the product, or under the instruction of the diving school. Otherwise it may cause an accident resulting in injury or death. ■ Please follow instructions about safety.

🛕 Warning

- When you use this product, please follow all the instructions about the safety directed in this operating manual
- Do not use if functioning abnormally.

AWarning

- Do not use this product if it is not functioning normally.
- If the product starts to function abnormally, contact your original dealer or authorized distributor of our company. Using a faulty regulator may cause an accident resulting in injury or death.

SPECIAL FEATURES

The Features of this Product

■ Integration of inflator and octopus.

Normally, it can be used as an inflator, but in emergency, it can be used as an octopus for backup. You can secure the safety by little equipment.

■ Adoption of a special plastic hose.

The lightweight special plastic hose is adopted as a low-pressure hose. Since it is no odor nature (Food Sanitation Act conformity hose), the air to supply is also clean. In addition, its excellent flexibility also reduces the stress of your month.

■ Global standard correspondence of couplings for hose.

End configuration of couplings for hose is changed into the full conformity form of ANSI. Z86. 7.2 of the U.S. diving industry standard from the JIS threads.

☐ Follow the safety rules.

Only use under the direction of a recognized diving school or after obtaining a C-card having completing a proper training program at a recognized diving school and thoroughly familiarizing yourself with the correct use of a regulator.

Have your buddy double check everything.

Avoid diving deeper than 30m/98ft which is the maximum safe depth for normal recreational diving.

☐ Please use the Bism made hose guard.

Please do not attach hose guards and hose protectors other than our products to a low-pressure hose. It may cause hose breakage.

\square Do not modify the product.

Since it may become a safety problem, please do not modify the product. Responsibility cannot be taken about the trouble after modification.



☐ Avoid contact with chemicals.

If mercury and chemicals (thinner, gasoline and various solvents or those cleaner, adhesives, paint, medicine and cosmetics which are containing them) adhere, discoloration and breakage may be occurred on the main body and hoses.



Gasoline

☐ Please use designated grease.

Please apply the designated grease to the designated portion only. Breakage may be caused, if greases other than designated are used or you apply to the portion out of the designation. (Please refer to "Installation of Various Hoses" in the page 9)



Grease

☐ Avoid shocks.

Though the product can withstand the shock in the usual use, drops and hard knocks may damage it.



☐ Do not fold or pull a hose.

AWarning

 Please do not fold or pull a hose. It not only breaks, but it may cause an accident resulting in injury or death.



☐ Do not use it in special environment.

Marning

- It is a regulator for recreational diving to use in the normal water area (the ocean, a lake, fresh water and seawater swimming pool). You cannot use it in special environment containing a medicine, a solvent, oil, etc.
- ☐ Do not block up the water pressure sensor hole.

Marning

• A regulator does not operate normally when the water pressure sensor hole of the first and second stage of a regulator is blocked up. Please do not block up the water pressure sensor hole.



☐ Check the tank to use.

A Warning

This product is designed to attach to the tank which can fill up 250 bars or less with the air in the atmosphere. Therefore, the tank with pure oxygen or high fraction of oxygen cannot be used.



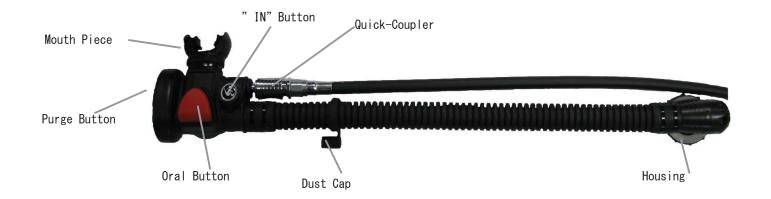
0xygen

◆ Please do not use the tank with the fraction of oxygen of greater than 40% for the regulator made out of titanium. Ignition and combustion is generated, and it may cause an accident resulting in injury or death.

NAMES OF PARTS & SPECIFICATIONS

0CT 2

NAMES OF PARTS



Specifications

Body

Corrugated hose length; 450 mm

(Length from the center of a housing to the end of an oral button)

Weight; 680 g (Including hose)

Air supply flow to B.C.; 150 liter/minute

Hose Portion

Material: Inner tube ; Vinyl chloride

Outer cover ; Vinyl chloride

Coupling; Copper alloy Outer diameter; 13 mm

Hose length; 700 mm

Nominal size of coupling threads; 3/8-24UNF

Working pressure; 15 bar

Minimum bending radius (Inside of hose); 15 mm

Hose guard ; Regular equipment

Attachments

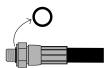
Please confirm before using this product.

■ Operating Manual (This copy)

INSTALLATION OF LOW PRESSURE HOSE

A Warning

Please attach a hose in the state that the first stage of a regulator is not connected to a tank. If the first stage is pressurized during work, a plug in the port flies and it is dangerous.



- Please confirm that 0-rings are set at the threads portion of each hose. When there are no 0-rings, it causes the air leakage.
- Please install the attached special hose. Otherwise, not only it causes the breakage of equipment, but also you cannot breathe as the hose comes off, and there is possibility of an accident resulting in injury or death.

A Caution

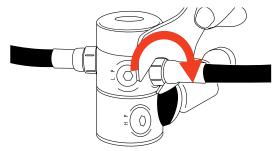
- Please ask the authorized distributor of our company for installation of low pressure hose.
- When you tighten hose couplings with a spanner, please keep the tightening torque (1/36 turns from a tightening start) of 9.8N⋅m (100kgf⋅cm). Otherwise it may cause to damage the threads portion.
- In the case of the value of tightening torque listed in the operating manual of a first stage is smaller than 9.8 N·m, please follow the value.

Installation of Low Pressure Hose

Warning

- Please install the low pressure hose to an L.P. port, and only the thread size of 3/8-24UNF of low pressure hose couplings should be connected. Otherwise, not only it causes the damage of equipment, but also a hose comes off and it may cause an accident resulting in injury or death.
- $\begin{tabular}{lll} \begin{tabular}{lll} \begin{$
- Please screw in the coupling of a low pressure hose to L.P. port and turn it clockwise with a spanner to tighten it. Tightening torque is $9.8~N \cdot m$ (100 kgf · m).





CHECK BEFORE USE & SETTING

Warning

- If there is an abnormality in your regulator by following various checks, you must not use it.
- When there is an abnormality, contact your original dealer or authorized distributor of our company. Use of the regulator which is not normal may cause an accident resulting in injury or death.

1 Check of the hoses.

Before setting your regulator to a tank valve, please check whether the hose is damaged or has not broken.

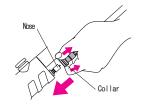
All the hoses, such as a hose of the safety second connected to the first stage and a high pressure hose, are to be checked.

Check if there is any crack in each part of the second stage by visual.

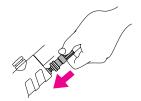
Connect a quick-coupler to inflator.

A Warning

- When you perform the connecting work of a quickcoupler, close the tank valve, depress the purge button of a regulator to release the pressurized air in a hose.
- Connect a quick-coupler to a nose of B.C. inflator while sliding a collar of the quick-coupler.



(2) Grip the end of the quick-coupler and push it until it sounds "click".



(3))While pulling the quick-coupler by gripping the end of it, check whether it comes off. When it comes off, please start it again from the beginning.

Check of the air leakage.

- (1) Before opening the tank valve, please hold a mouthpiece in your mouth and inhale air to check if the air does not leak and does not come in to your mouth.
- (2) Open the tank valve slowly and once it gets to full open, return by half-rotation.
- (3) Check if there is any air leakage on the first and second stage of regulator, connecting portion of hose and hose itself.
- (4) When air leaks from connecting portion to inflator (around the quick-coupler), close the valve, release the residual pressure in a hose by depressing purge button of a regulator second stage, and then install the quick-coupler again recheck the air leakage.
- (If air still leaks, stop to use it and consult with your original dealer or authorized distributor of our company.)

S Check of the air intake and exhaust.

▲ Warning

- After setting, when air does not come out from the second stage of the regulator normally, please do not use it.
- When the inhaled air has a smell, please stop to use the tank and change for other tanks. When the air still has a smell even if you change a tank, please stop to use the regulator.

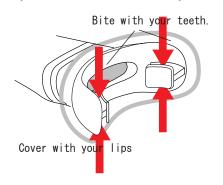
Please hold a mouthpiece in your mouth, breathe with a mouth 4 \sim 5 times, and check that air flows normally.

How to Hold a Mouthpiece in Your Mouth.

▲ Caution

Please do not bite the projection portion of a mouthpiece strongly. You may cut it off, if you bite strongly.

Bite the projection portion of a mouthpiece lightly with your teeth, and hold it in your mouth so that the whole may be covered with lips.



BASIC USAGE

How to Hold a Mouthpiece

Marning

- Please do not bite the projection portion of a mouthpiece strongly. Otherwise, as you may cut it off, and there is a possibility of becoming easy to separate from a mouth which leads to be drowned, thus it may cause an accident resulting in injury or death.
- Please hold the second stage in your mouth so that a hose installed portion comes to a lower position.

Hold it in your mouth so that a mouthpiece comes to an upper position and a hose comes to a lower position.



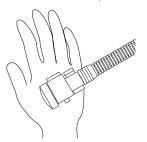
Breathing

After holding a mouthpiece in your mouth and performing regulator clear, breathe with your mouth deeply and slowly.

If a Free Flow is Carried Out • • •

A Caution

- Although a free flow may be carried out from the second stage of a regulator immediately after an entry, if you cannot stop it by the method explained below, please stop use.
- ▼ Please plug up the hole of a mouthpiece with a palm or a finger.



[Note]

O By the direction of second stage, such as immediately after an entry, air may blow off from a mouthpiece portion. It is not failure when it stops by the above mentioned method.

Regulator Clear

A Warning

- Please be sure to breathe, after draining by performing regulator clear before inhaling air.
 It may cause drowning by drinking water accidentally.
- If it carries out in the state that regulator clear is not mastered, it may cause drowning by drinking water. Please perform practice of regulator clear under instruction of a diving school.

Before inhaling air, perform discharge operation of water which entered in the second stage of a regulator. (Regulator Clear)

■ Regulator Clear with the Purge Button.

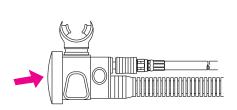
In the state of holding a mouthpiece in your mouth, depress the purge button while exhaling.

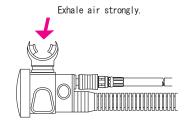
Since water may remain, inhale air slowly so that you may not drink water, and if the water still remains carry out the same once again.

■ Regulator Clear by Exhaling.

In the state of holding a mouthpiece in your mouth, exhale air strongly to blow off the water in the second stage.

Since water may remain, inhale air slowly so that you may not drink water, and if the water still remains carry out the same once again.





[Note] O Because if you operate a purge button when it positions just beside, an exhaust valve becomes below, then water can be effectively discharged.

As to the basic usage of a B.C., please follow the operating manual of the B.C.

CARE AFTER USE & STORAGE

Disconnect Quick-Coupler from B. C. Inflator.

A Caution

- Before disconnecting a quick-coupler of B.C. hose from inflator, be sure to close the tank valve, depress the purge button of a regulator to release the pressurized air in a hose.
- According to the operating manual of a regulator and a tank for SCUBA diving, close the tank valve.
- Depress the purge button of regulator second stage to release residual air in a hose.
- Pull the collar of a quick-coupler and disconnect from the nose while pulling the collar.



Wash.

A Caution

- Equipment may be damaged if soaked in hot water of 50°C or more.
- Please do not push purge button of the regulator second stage by any means during washing. Water comes in and may cause the trouble.
- Please be sure to put the dust cap of the regulator first stage firmly. Otherwise water comes in the gauge and hose, and it causes failure.

(Note)

O When you push the purge button of the regulator second stage by accident during washing or forget to put a dust cap, connect the first stage to a tank again and push the purge button to blow off internal water.

- ¶ Put a dust cap to a quick-coupler.
- Wash it according to an operating manual of B.C.

PERIODIC INSPECTION & SERVICE AFTER THE SALES

Drying-Out and Storage

Caution

- Please keep the hose in a natural form. Forced bending causes kinking of a hose and shorten a hose life remarkably.
- If you leave the product in the state of high temperature, such as in a car or on a beach, it may interfere with a function.
- When a translucent mouthpiece and white parts (hose etc.) are left under sunlight or a fluorescent light for a long time, it may yellow. Moreover, if they touch



rubber commodities, such as a fin, for a long time, a color of the rubber may stain.

- Wash OCT 2 together with B.C. fully.
- Avoid direct rays, and store the products after making it fully dry in the shade with the dry, cool and sufficient ventilation.

Periodic Inspection

A Warning

- Please ask your original dealer or authorized distributor of our company for a periodic inspection per once in a year or once in every 100 dives.
- Regardless whether or not you use it, OCT 2 may not function normally when you ignore a periodic inspection.

[Note]

- Some parts carry out natural deterioration. Exchange of such parts is also performed by periodic check.
- Please ask your original dealer or authorized distributor of our company for a periodic inspection per once in a year. (Pay Service)

Service after the Sales

 \square When your OCT 2 is out of condition, check it first.

Please refer to the clause of "Troubleshooting" and check whether it is failure.

□ When it is still out of order;

Please contact your original dealer or authorized distributor of our company.

☐ Reserving period of parts.

Our company reserves the performance parts (the parts required to maintain the function of the product) for repairing a regulator for at least 8 years after the production is discontinued. Since repair may be possible depending on a problem even after this reserving period passes, please consult with your original dealer or authorized distributor of our company.

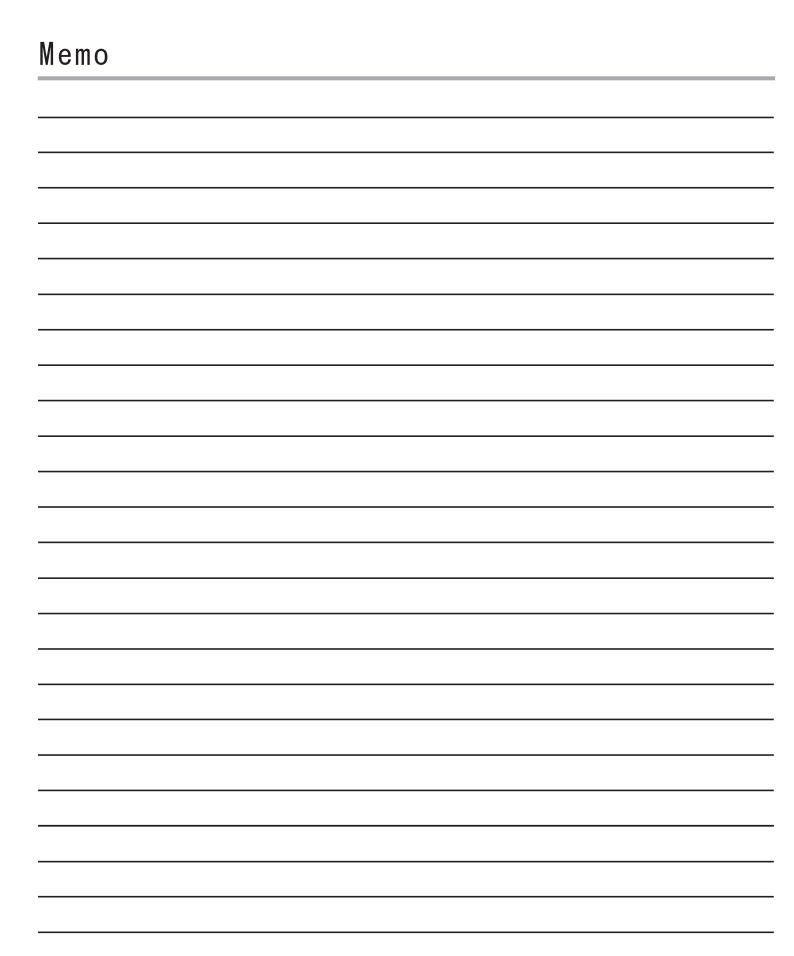
TROUBLESHOOTING

Please check it once again before sending it to repair. When still not operating normally, please consult with your original dealer or authorized distributor of our company for repair.

Trouble	Major Cause	Measure	Page
Air does not	OA failure to open the cock of a	O Open the tank valve.	_
flow.	tank valve. O A tank is empty. O Water pressure sensor hole of	O Change to a tank with full of air.	_
		O Check whether the water pressure sensor hole is blocked.	3
Inhalation resistance is		O Change to a tank with full of air.	_
high.	O Tank valve is not fully opened.	O Make a tank valve full open.	6
	O Operation failure of the second stage.	O Consult with your original dealer or authorized distributor of our company.	
	O Water pressure sensor hole of either first stage or second stage is blocked.	O Check whether the water pressure sensor hole is blocked.	3
Exhalation resistance is high.		O Dip in water and melt the crystal of salt.	8
Free flow	O Air is blow off by Venturi effect.	O Block the hole of mouthpiece.	7
	O Regulator clear is not enough. O A foreign substance is caught in an exhaust valve.	O Perform the regulator clear again. O Check of the exhaust valve. O Check of a mouthpiece.	7
		O Consult with your original dealer or authorized distributor of our company.	I I
Air lookaga fram	O Thread nextion of a base lesson	O Detichten the thread nextical of	_
_	or comes off.	O Retighten the thread portion of all hose.	
		O Consult with your original dealer or authorized distributor of our company.	

TROUBLESHOOTING

Trouble	Major Cause	Measure	Page
		O Connect the B. C. hose correctly.	6
linflate even	3 tooc and b. o. 11000 out 100try.		
if I push the	_		
	O Tank valve is not open.	Open the tank valve.	_
(Air is not	_	O open one can varie	
1 *	O Air in a tank is not enough.	O Change to the tank with full of air.	_
BC does not	O You might push "ORAL" button at	O Do not push "ORAL" button.	_
inflate even if		S so net paon ent a bacterii	
I push the "IN"			
I .	OPull dump valve is open.	O Do not pull remote valve.	_
supplied).			
	O Pull dump valve is open.	O Do not pull remote valve.	
inflate even if I			
	O Relief valve is open.	O Do not pull exhaust knob.	
Inflation". (Air		•	
is not supplied).			
	O The "ORAL" button is pushed at	O Push "ORAL" button only at the	
	-	time blowing air.	
	·	•	
Exhaust cannot	O Posture is not appropriate.	O Perform button operation while	_
be performed by		taking a posture so that the position	
"ORAL" button.		of the exhaust vent becomes higher	
		than the float portion.	
Air leaks from	O A foreign object is stuck in an	O Wash the inside of inflator with	8
a mouth piece	oral valve.	water well.	
portion of an			
inflator.			
Air leaks from a	OA foreign object is stuck in an	OWash the housing portion with water	8
housing at the	exhaust valve.	well.	
shoulder portion			
of inflator.	O Housing is not tightened	O Install the housing portion again.	
	enough.		
B. C. hose cannot	O Inside of the B. C. hose is	O Close the tank valve, release the	6
be connected to		air pressure in the hose by pushing	
an inflator.		the purge button of a regulator	
		O Use the Bism made B. C. hose of	
	not adequate as the B. C. hose is	attachment.	
	not Bism product		



Bism CORPORATION

5F, 3-6-18, Higashinihonbashi, Chuo-ku, Tokyo 103-0004

Japan

Phone: +81-3-5640-8126 Fax: +81-3-5640-8131 E-mail: info@bism.co.jp URL: http://www.bism.co.jp