



ADMINISTRATION

FOR

PRODUCT SERVICE PROCEDURES

The Product Service Guide conveys lists of components and service procedures that reflect the products as they are configured at the time of their writing.

They also contain Supplemental Information intended to assist the Authorized Oceanic Service Technician who is servicing an Oceanic product that may be configured with older components.

GENERAL INFORMATION

CONTENTS

OVERVIEW	3
TECHNICAL TRAINING	3
TECHNICAL UPDATES AND BULLETINS	3
EQUIPMENT INSPECTION	3
SERVICE - REGULATORS AND BC POWER INFLATORS	4
GENERAL SERVICE GUIDELINES AND PRECAUTIONS	5
USER MAINTENANCE OF REGULATORS	5
STATEMENT OF OCEANIC 2-YEAR AND 1-YEAR LIMITED WARRANTY	6
REGULATOR PARTS REPLACEMENT PROGRAM	7

PROCEDURES

GENERAL (FOR REGULATORS)	DOC. 12-2202
DX4 FIRST STAGE	DOC. 12-2203
CDX FIRST STAGE	DOC. 12-2204
DXI FIRST STAGE	DOC. 12-2205
DX3 FIRST STAGE	DOC. 12-2206
'95 BALANCED DIAPHRAGM FIRST STAGE	DOC. 12-2207
EXPLORERS FIRST STAGE**	DOC. 12-2208
CDX5 FIRST STAGE	DOC. 12-2209
PX2 FIRST STAGE	DOC. 12-2210
'95 BALANCED PISTON FIRST STAGE	DOC. 12-2211
PR '95 BALANCED PISTON FIRST STAGE	DOC. 12-2212
SP4 FIRST STAGE	DOC. 12-2213
SPORT PISTON FIRST STAGE	DOC. 12-2214
UNBALANCED PISTON FIRST STAGE	DOC. 12-2215
SECOND STAGE SWIVEL	DOC. 12-2219
ZETA SECOND STAGE	DOC. 12-2220
OMEGA 2 SECOND STAGE	DOC. 12-2221
DELTA 3 SECOND STAGE	DOC. 12-2222
DELTA 2 SECOND STAGE	DOC. 12-2223
ALPHA 7 SECOND STAGE	DOC. 12-2224
ALPHA 4 SECOND STAGE	DOC. 12-2225
GAMMA SECOND STAGE	DOC. 12-2226
SLIMLINE OCTOPUS SECOND STAGE	DOC. 12-2227
AIR XS SECOND STAGE/REGULATOR	DOC. 12-2228
AIR XS2 SECOND STAGE/REGULATOR	DOC. 12-2229
SWIVEL 180 OCTOPUS SECOND STAGE	DOC. 12-2230
EXPLORERS SECOND STAGE**	DOC. 12-2231
GAMMA 2 SECOND STAGE	DOC. 12-2232
BC PATCHING	DOC. 12-2234
BC GENERAL INSPECTION	DOC. 12-2235
BC ALLIANCE INFLATOR	DOC. 12-2236
FLEX DRY SUIT	DOC. 12-2237
ANALOG INSTRUMENT	DOC. 12-2238
DIGITAL INSTRUMENT	DOC. 12-2239
MAKO DPV	DOC. 12-2240

** BEING DEVELOPED AT THE TIME OF THIS WRITING

GENERAL INFORMATION

OVERVIEW

The Oceanic Product Service Guide is intended to be used as step-by-step procedures for the service of Oceanic Diving Equipment only by service technicians trained and authorized by Oceanic. It is not to be used as an instructional manual for the novice, or to serve as a substitute for unauthorized technicians.

⚠ WARNING: Possession of the Product Service Procedures by any dealer, or individual, does not constitute consent by Oceanic, implied or otherwise, to service Oceanic life support equipment. Any individual performing the procedures described herein outside of an Authorized Oceanic Sales and Service Facility will automatically assume sole responsibility and all liability for any damage or injuries which may result from the service performed.

TECHNICAL TRAINING

Training and Authorization to service Oceanic products is available to Authorized Oceanic Dealers only by attending service seminars held frequently throughout the year. **In order to maintain Authorized Oceanic Technician status, you must attend an annual product update.** For information regarding a seminar in your area, contact the Oceanic Sales Representative for your region.

TECHNICAL UPDATES AND BULLETINS

When an improvement is made to the way Oceanic products are manufactured or serviced and it needs to be understood by Authorized Dealers, it is communicated in the form of a **Blue Page**, Oceanic's official technical bulletin for keeping dealers up to date. For instance, a new material that greatly improves the performance of a product may be used for a certain part, making the original part obsolete.

In the event that an important quality issue arises that can be remedied by Authorized Dealers, it is communicated in the form of a **Quality Alert** that explains the nature and severity of a specific problem and the proper way for it to be corrected.

Both the **Blue Page** and **Quality Alert** are posted on the OceanicNet web site. They are important documents that should be shared with and understood by store staff.

⚠ NOTE: Only Authorized Oceanic Dealers, Affiliates, and Distributors are authorized to perform annual inspection or service of Oceanic products. Other individuals and facilities are not authorized. Authorized Dealers, Affiliates, or Distributors must maintain a complete inventory of all parts, tools, and documentation needed to perform this service.

EQUIPMENT INSPECTION

For Regulators, also refer to the Guideline for Minimum Service Intervals on page 4.

Oceanic Regulators, Buoyancy Compensators, and Instrumentation are Life Support Equipment that require inspection or service on a regularly scheduled basis; no less than once a year. An **Annual Inspection** is required of all Buoyancy Compensators and Analog and Digital Instruments to maintain valid warranty status. This Inspection is used as a safeguard to determine if service is required. An **Annual Inspection** of all Oceanic Regulators or BC Power Inflator Assemblies is required as a preliminary procedure to performing an **Annual Service**, but does not serve as a substitute for an **Annual Service** of these products. Oceanic USA extends a grace period to the consumer of no more than thirty days before or after the anniversary of the original date of purchase to perform this service. This period may vary in other countries.

⚠ NOTE: Annual Inspections must be performed by Authorized Oceanic Dealers. All products returned to Oceanic for Service will receive a complete Annual Service.

SERVICE - REGULATORS AND BC POWER INFLATORS

An **Annual Service** consists of:

- Thorough initial inspection.
- Troubleshooting of any problems or symptoms present.
- Complete disassembly.
- Thorough cleaning and evaluation of all reusable parts.
- Replacement of all non-reusable parts.
- Complete reassembly.
- Tuning and final testing.

⚠ WARNING: Use only genuine Oceanic parts, subassemblies, and components whenever assembling Oceanic products. DO NOT attempt to substitute an Oceanic part with another manufacturer's, regardless of any similarity in shape, size, or appearance. Doing so may render the product unsafe, and could result in serious injury or death of the user.

⚠ NOTE: This same service is required 3 to 6 months for all BC Power Inflators used for rental or instruction in chlorinated water. For Regulators, refer to the Guideline that follows.

GUIDELINE FOR REGULATOR EQUIPMENT MINIMUM SERVICE INTERVALS:

⚠ NOTE: Due to variations of use and storage time that Oceanic Regulator equipment may be subjected to, the Guidelines and defined Intervals given herein are subject to the discretion of the owner of the specific product. Inspection and/or service indicated must be performed only by an Authorized Oceanic Dealer.

Personally owned equipment used for recreational diving activity:

Equipment used 100 dives or less per year should be serviced at least once per year.

Equipment used more than 100 dives per year should be serviced after 100 dives prior to further use.

Equipment stored for more than 6 months should be inspected, and serviced as required, prior to use.

Equipment used for dive training and/or consumer rental activities:

Equipment should be inspected prior to every use.

Equipment should be serviced at least once every 6 months regardless of use.

Equipment should be serviced after 100 dives, prior to further use.

Equipment stored for more than 3 months should be inspected, and serviced as required, prior to use.

Regardless of ownership or intended use:

Equipment should be inspected and serviced if it displays any sign of leakage or malfunction.

Equipment should be inspected and serviced if the first stage inlet filter shows any sign of residue or discoloration.

Equipment should be inspected and serviced if it displays signs of improper performance or breathing effort.

Equipment should be inspected and serviced as required if it displays signs of freeflowing.

Equipment should be inspected and serviced if o-rings or hoses display any signs of deterioration.

GENERAL SERVICE GUIDELINES AND PRECAUTIONS

1. Refer to the specific Product Service Procedure for the product at all times while performing each step of every procedure. Don't rely on your memory.
2. Maintain a well organized work station that is properly equipped with all needed tools and parts to perform service according to the Oceanic Procedures.
3. Don't assume something about one manufacturer's product based on what you have been taught about another, regardless of how similar they may appear.
4. Maintain a thorough understanding of the conditions, limitations, and exclusions of all warranties and parts replacement programs.
5. DO NOT attempt service for a product that you haven't received training for.
6. DO NOT substitute parts with another manufacturer's. Only genuine Oceanic parts must be used while servicing Oceanic products, without exception.
7. DO NOT re-use schedule A (mandatory replacement) Regulator parts. Discard and replace with new during every service, regardless of how much use the product has received.
8. DO NOT overtighten or over torque parts during reassemble. Parts can easily be damaged by unnecessary stress.
9. ALWAYS remember that your customers have placed their safety in your hands. Be a responsible service technician at all times.

USER MAINTENANCE OF REGULATORS

At the point of original sale and when performing service, explain and demonstrate to the customer how to use and maintain the diving equipment purchased.

1. After exiting the water, blow all excess water out of the second stages by depressing the purge buttons for a sufficient amount of time before closing the cylinder valve.
2. Purge the regulator system of air and detach the first stage from the cylinder valve. Avoid blowing air toward the opening of the first stage.
3. Shake excess water off the dust cap, yoke and filter area, and immediately replace the dust cap over the cone filter and tighten the yoke screw until snug. Failure to seal the dust cap over the cone filter may allow water to enter the first stage, and cause internal corrosion.
4. As soon as possible, when finished using, place the regulator system in a clean container filled with fresh water to soak - preferably for 12 hours or more. Gently agitate the system when first immersing to ensure that fresh water fills all open cavities.
5. After soaking Piston first stages, thoroughly flush the inlet openings of the piston cap with a pressurized stream of fresh water.
6. Flush second stages by directing fresh water through the mouthpiece and allowing the water to exit through the exhaust valve.

⚠ CAUTION: DO NOT depress the purge buttons of the second stages while soaking and flushing. If the system contains a Delta second stage, ensure the adjustment knob is turned clockwise 2 full turns before soaking to prevent water from entering the second stage valve, and possibly through the LP hose into the first stage.

7. Hang the regulator to dry with the second stages hanging down to allow excess water to drain.

⚠ CAUTIONS:

- DO NOT leave the regulator pressurized or attached to a SCUBA cylinder for an extended amount of time when not in use.
- DO NOT use the regulator or any of the hoses as a handle for carrying a SCUBA cylinder. Doing so will result in damage that might render the system inoperable.
- DO NOT expose the regulator (or any Oceanic diving equipment) to extreme heat such as direct sunlight or the hot trunk of a car when not in use. Doing so may cause damage to the high pressure seat of the regulator first stage.

STATEMENT OF OCEANIC 2-YEAR AND 1-YEAR LIMITED WARRANTY*

- * 2-year warranty applies to Instruments, Regulators, and Buoyancy Compensators.
- * 1-year warranty applies to Dive Propulsion Vehicles.

Oceanic guarantees, to the original purchaser only, that the equipment purchased is free of defects in material and/or workmanship under normal recreational scuba use for a period of two (2) years*, or one (1) year*, from the date of consumer purchase from an Authorized Oceanic Dealer, provided proper care and maintenance have been performed as prescribed by the owner's guide or instruction card included with the equipment. Should the equipment prove to be defective for any reason (other than those listed as limitations below) the equipment will be serviced or replaced at Oceanic's sole discretion at no charge (excluding shipping and handling).

- This warranty shall be void if the registration card is not completed and signed by both the Authorized Oceanic Dealer and the product Owner, and registered within 30 days of purchase.
- This warranty shall be void if the equipment has been tampered with by a person (or persons) not authorized by Oceanic to perform service, or if the equipment is used for rental, military, or commercial purposes.
- This warranty is nontransferable and extends to the original purchaser only. It is void if the equipment was purchased from anyone other than an Authorized Oceanic Dealer.

Warranty Correspondence: All correspondence regarding the equipment covered by this warranty agreement or in direct reference to this warranty should be accompanied by a copy of the original sales receipt and a copy of the owner's portion of this warranty card.

Limitations: Warranty does not extend to cover theft, loss, or damage due to accident, abuse, tampering, lack of maintenance, exposure to excessive temperature, extended sunlight, or deteriorating chemicals. Service or modifications by any person or persons other than an Authorized Oceanic Dealership voids the warranty. Oceanic will not be responsible for recovery or replacement of the product in the event of loss or theft. Oceanic, its Authorized International Distributors, and Authorized Dealers make no other warranties, either expressed or implied, orally, or in writing, with respect to any other warranty coverage except those expressly stated within the preceding paragraphs. Oceanic will not be held responsible for any agreements orally or in writing with the exception of those expressly included in this warranty statement. This warranty registration card and the terms contained herein supersede all statements contained in any and all owner's guides, instruction cards, or other equipment literature or catalogs. In no event will Oceanic, its Authorized International Distributors, and Authorized Dealers be held responsible or liable for any personal injuries resulting from the use of the covered equipment, or for any other damages, whether direct, indirect, incidental, or consequential; even if Oceanic has been advised of such damages.

INSTRUMENTS: Warranty does not extend to plastic gauge faces, rubber boots, HP hoses, o-rings, batteries, hose fitting corrosion, or chrome loss.

REGULATORS: Warranty does not extend to LP hoses, swivel or hose end o-rings, mouthpieces, stress cracks due to spraying with aerosols, rubber deterioration due to excessive exposure or lack of maintenance, chrome loss, or corrosion.

BUOYANCY COMPENSATORS: Warranty does not extend to abrasion, punctures or cuts to bladder material, or delamination due to chlorine exposure.

DRY SUITS: Warranty varies, refer to the information enclosed with the specific Dry Suit.

DIVE PROPULSION VEHICLES: Warranty does not extend to the DPV for damage caused by battery leakage. Warranty for the Battery Charger is limited to 90 days.

WARRANTY CORRESPONDENCE

All correspondence regarding the equipment covered by the product's warranty agreement, or in direct reference to this warranty, should be accompanied by a copy of the original sales receipt and a copy of the owner's portion of the warranty card.

REGULATOR PARTS REPLACEMENT PROGRAM

It is important to note that this special program is not the same as a warranty. A warranty may only be applied specifically to the issue of defects, while a parts replacement program provides free replacement of certain parts which have worn out in the course of normal use.

Regulators may be entitled to the benefits of the Parts Replacement Program, on the following conditions:

- The Parts Replacement Program is valid for only two years (two services) after the original purchase date.
- The original warranty identification card and original receipt must be provided.
- Free parts are provided only once a year for a regulator covered under the program.
- Regulators purchased for rental use are not covered.

PARTS REPLACEMENT SCHEDULE

The diagram numbers for parts listed with each regulator exploded view are followed by a letter code (a, b, c) that designates inspection/replacement options recommended by Oceanic during service.

Schedule A parts (a) shown in bold type (Yoke) or with a • symbol (DIN) are to be replaced during every service, without exception and regardless of the warranty status of the Regulator. These parts include all dynamic O-rings and LP and HP Seats of the First and Second Stage. They are covered under the Parts Replacement Program.

Schedule B parts (b) are to be replaced on a discretionary basis, if determined by the Oceanic factory Authorized Service Technician to be worn or damaged. These parts may be reused for an additional year if use is moderate and the Regulator is properly maintained. However, if replacement is required due to normal wear, they are also covered under the Parts Replacement Program.

Schedule C parts (c) do not require replacement and may be reused repeatedly, provided that they have not been tampered with through unauthorized repair or misuse. These parts are covered against any defects in materials and craftsmanship by the product's two year warranty. They are not covered under the Parts Replacement Program.

CUSTOMER OBLIGATIONS

Maintain proof of original purchase/ownership in the form of the original sales receipt or invoice. (The serial number of the product must be recorded on the invoice by the Oceanic Dealer.)

Provide proof of original purchase/ownership and annual service at the time of each service.

Obtain service for the product by an Authorized Oceanic Dealer no less frequently than on an annual basis, and maintain a record of this service.

Properly use and maintain the product as instructed in the owner's guide, without attempting any unauthorized repair, modification, or tampering.