



**DIVE  
RITE®**

*Equipment for Serious Divers®*

RG5300  
**XT Regulator**  
User Manual

[www.DiveRite.com](http://www.DiveRite.com)

RG5300XTRegulator User Manual\_Nov.18, 2021

# IMPORTANT WARNINGS



Read this manual carefully before diving with the XT Regulator. You should fully understand how this regulator works and be proficient in its use prior to diving.



Assembly and disassembly of regulator system components, and any repairs to or internal maintenance of such components, should only be performed by a certified technician who is working under the supervision of an authorized Dive Rite dealer.



Before using your XT Regulator it is extremely important that you read and understand each warning, as well as warnings and cautions that appear throughout the manual. Failure to do so could result in damage to or loss of equipment, serious personal injury, or death.



Before diving, you should have the proper training from a qualified instructor and obtain certification from a recognized training agency.



As part of your dive training, you should master all the basic skills of regulator use, including proper assembly and disassembly of complete scuba units, including regulator, cylinder, harness, regulator second stage recovery and clearing, continuous breathing while on scuba, and post dive regulator cleaning and storage..

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## Congratulations on purchasing your XT Regulator.

The XT Regulator has been designed, manufactured and tested for the highest possible performance and reliability. With proper use and maintenance outlined in this manual it will provide you with many years of outstanding service.

**Web Resources:** *As you read through the manual, watch for pointers and helpful tips from the Dive Rite pros. To access our complete library, interactive Solution Finder, and helpful videos at Dive Rite TV, go to [www.DiveRite.com/DiveRiteTV](http://www.DiveRite.com/DiveRiteTV)*



For product updates and new product release notifications, SIGN UP for the Dive Rite Newsletter and follow us on Facebook.

## Product Description

The XT Regulator welcomes a new generation of regulator performance at Dive Rite. An elite performer, the XT's advanced, patented design earns top marks from Mike Ward of Dive Lab. With work of breathing at less than 1.0 J/l, the XT performs right alongside premier regulators on the market today. Dive Rite offers a variety of packages combining our XT1 First Stage with our premier XT4 second stage or our workhorse XT2 second stage.

### XT1 First Stage Regulator

- Balanced first stage provides consistent gas flow regardless of depth and tank pressure
- Five low pressure ports (3/8-24 UN) and a swivel turret achieves optimal hose routing
- Two HP ports (7/16-20 UNF/ISO263) are angled 90-degrees from the DIN/Yoke fitting which gives the perfect angle for hose routing
- Environmentally sealed to protect against internal corrosion, contaminants and freeze
- Available as DIN or Yoke
- Intermediate pressure: 140 PSI



### XT4 Second Stage Regulator

- Pneumatically balanced downstream design provides consistent gas delivery regardless of depth or tank pressure
- Venturi assist reduces work of breathing
- Glove friendly dive/pre-dive lever avoids free flows at the surface
- Adjustable design allows the diver to fine tune inhalation effort for dive conditions and personal preference
- User adjustable secondary micro spring adjustment for independently adjusting spring preload and cracking pressure
- Finned metal heat exchanger for improved cold-water performance
- Black DLC (Diamond Like Carbon) coating on adjustment knob and finned heat exchanger
- Orthodontic mouthpiece reduces jaw fatigue on long dives
- All internal moving parts are Teflon coated for reduced friction and cold-water use
- Oxygen compatible O-rings and lubricant used throughout
- Available as a standard right-hand regulator (RG5900-RIGHT) or left-hand regulator (RG5900-LEFT)



## XT2 Second Stage Regulator

- Pneumatically balanced downstream design gives consistent gas pressure for easy inhalation
- Venturi assist reduces work of breathing
- Glove friendly dive/pre-dive lever avoids free flows at the surface
- Adjustable design helps diver fine tune cracking pressure so breathing resistance matches diver personal preference
- Deflection ring works to maximize performance while deterring free flow
- Orthodontic mouthpiece reduces jaw fatigue on long dives
- Internal parts are Teflon coated for cold-water use
- Oxygen compatible O-rings and lubricant used throughout
- Available in right-hand, left-hand configuration or with yellow faceplate



### **WARNING**

Using oxygen compatible materials and assembly processes that are today industry standard, the XT is suitable for oxygen enriched gas mixtures only if precautions are taken. Diver must use oxygen compatible materials, keep the regulator clean from contaminants during assembly and use and open the tank valve slowly.

## Attaching High and Low Pressure Hoses

There are two high-pressure and five low-pressure ports on the first stage. The high-pressure port is for attaching a pressure gauge. The low-pressure ports give divers ultimate flexibility in streamlining and routing for the inflator hose and second stage regulator configurations.

### **WARNING**

Do not try to connect a low-pressure hose to a high-pressure port or visa versa. Do not open a cylinder valve unless you are certain that **all** hoses are correctly attached.

NOTE: The turret-port base is slightly convex and slotted on each side to accommodate an 11/16 wrench for securing the turret while loosening the LP hose. This makes it easy to change the hose without concern of loosening the turret.

### To Attach a Hose:

1. Check that the hose O-ring is in place
2. Line up the hose connector with a port
3. Hand-tighten the hose to the regulator. Tighten further using the appropriately sized wrench. Do not over tighten.
- 4.

## Using the External Adjustment Knob

Turning the adjustment knob clockwise increases spring tension, making it more difficult for the valve to open. This helps to reduce the tendency to free-flow in strong currents.

Turning the knob counter-clockwise decreases spring tension, making the valve easier to open. This reduces breathing resistance, but can increase the tendency to free-flow.

You will want to try various settings of this knob during your first few dives to find the right position for you. The best practice is to set the regulator so that it breathes easily, short of free flowing.



## WARNING

Adjusting the knob for the maximum breathing resistance does not reduce the amount of air you breathe from your cylinder. It may actually cause you to use more air because your diaphragm has to work harder to compensate for the resistance.

## Using the Venturi Dive/Pre-Dive Switch

The dive/pre-dive switch controls a venturi flow valve located within the second stage of the regulator. When in the pre-dive position (pushed forward), this valve decreases the likelihood of free-flow when not in use. The dive position (back, toward mouthpiece) decreases breathing effort and improves regulator performance.

### To Set the Venturi Switch:

1. Set the switch to the dive position before each dive.
2. Set the switch to the pre-dive position when the regulator is not in use in or out of the water.

## XT4 Secondary Micro Spring Adjustment

The XT4 second stage offers an additional adjustment for fine tuning your regulator. The micro spring adjustment independently adjusts the spring preload and cracking pressure. To adjust, first turn the external adjustment knob fully counterclockwise to its maximum setting. Then, holding the external adjustment knob, use a 5mm Allen wrench to turn the micro spring adjustment located inside the knob. Turning this adjustment clockwise increases spring preload and cracking pressure. If you are unsure of how to properly set this adjustment, contact your authorized Dive Rite regulator technician.

## Care and Maintenance

Your regulator will provide you years of service with proper care and maintenance. This involves post-dive care and regular professional service.

**NOTE:** Stainless steel can develop rust even when properly cared for.

### Post-dive care:

1. After use, replace the dust cover.
2. Thoroughly rinse the regulator in fresh water and allow it to dry before storing in a close container. Do not hang or store the regulator in a manner that puts strain on the hoses.

### Professional service:

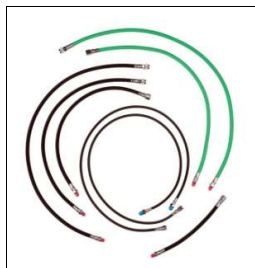
Over time, mineral deposits and salt build-up will accumulate on your regulator, which can adversely affect its performance. Professional cleaning and service is the only way to remove these deposits and return the regulator to its proper working order. Other regulator breakdowns can also occur whether the regulator is used or not, such as spring tension and o-ring breakdown. These too will affect the performance of the regulator.

To keep your regulator working at its best performance, you should have your regulator serviced at least once every two years or 100 dives by a Dive Rite authorized regulator technician.

**NOTE:** Avoid excessive pool use. Excessive use in chlorinated water can lead to premature discoloration and shorten the products life.

## Optional Accessories Available At Your Local Dive Rite Dealer

To get the most enjoyment out of your XT Regulator, you may wish to add the following accessories:



Airflex Braided Hoses



[Tech Tool Bag](#)



[Regulator Necklace](#)

## Warranty Information

**Lamartek, Inc. dba Dive Rite** warrants this regulator against any and all defects in materials and workmanship throughout its useful life. This warranty does not apply to normal wear and tear, mouthpieces, hoses, o-rings, diaphragms, filters, valve seats, or any cosmetic damage and is extended only to its original owner.

- Although this warranty is not contingent upon any annual service, it is highly recommended that any and all regulators receive an annual safety inspection performed by factory-authorized personnel. Factory or authorized dealer servicing is required every 200 hours of dive time or every 2 years whichever occurs first.
- This warranty applies only to regulators purchased from authorized Dive Rite Dealers. Misuse, neglect, unauthorized service, as well as any modifications void this warranty.
- Dive Rite shall not be liable for incidental or consequential damages incurred through the use of this regulator. Some states in the U.S. and certain foreign countries do not allow exclusions or limitations of liability for incidental or consequential damages so this may not apply to you.
- This warranty gives you specific legal rights. You may have other rights which vary from state to state and country to country.
- To make a claim under this warranty, the owner must have registered his/her warranty using Dive Rite's website ([www.DiveRite.com](http://www.DiveRite.com)). All warranty repairs (international or domestic) *must* be accompanied by a copy of the purchase receipt. For warranty repairs (international or domestic) the product must be returned to the *store* where the item was purchased or directly to Dive Rite. A Return Authorization must be obtained by calling Dive Rite corporate offices (386-752-1087) to send items to Dive Rite. No warranty service will be performed for other than registered owners.

### Activating and Utilizing Your Warranty

1. To activate your warranty, you must register your regulator within 30 days of purchase through our online product warranty registration. This is located within our website at [www.DiveRite.com](http://www.DiveRite.com).
2. Proof of original ownership is provided by your purchase receipt and should be retained for your records.
3. To maintain your original-owner lifetime warranty, you must have your regulator serviced within the prescribed 200 hours of usage or two year time frame as outlined above. This service can be done at your local authorized Dive Rite Dealer or directly by Dive Rite.
4. If you intend to receive your service directly from Dive Rite, you must first obtain a Return Merchandise Authorization (RMA) number by calling Dive Rite at 386- 752-1087. Your RMA number is to be printed on the address label of your package.

All Dive Rite products receive our commitment to excellence in customer service from your fellow divers. Contact us at 800-495-1046, M-F, 9 AM-4 PM, EST or email us at [Support@DiveRite.com](mailto:Support@DiveRite.com)



800-495-1046

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