

CAUTION

This is not a toy. Misuse may cause serious injury or death. Eye protection specifically designed for paintball use must be worn by the user and any person within range. Recommend 18 years or older to purchase. Persons under 18 years must have adult supervision. Read operator manual before use.

All air system service or repairs of any type, including the removal of the regulator from the cylinder, must be completed by qualified personnel only. Tampering with this product could result in damage to the unit and potential injury or death to the user or any person nearby. For more information, contact your local dealer or Paintball Solutions at 1-800-220-3222. To maintain the performance of your regulator, the Piston [3] should be lightly lubricated with silicone-based grease every three to six months. See your local paintball dealer to complete this service.

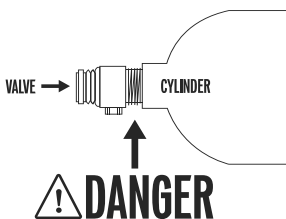
Never lubricate any part of your air system with any type of liquid or spray oil.

WARNING: THIS CYLINDER MUST BE HYDROTESTED EVERY FIVE YEARS BY A QUALIFIED RETESTER.

THE CYLINDER CAN FLY OFF WITH ENOUGH FORCE TO KILL IF THE VALVEUNSCREWS FROM THE CYLINDER.

LOOK AT VALVE WHEN REMOVING CYLINDER. STOP IF THE CYLINDER STARTS TO UNSCREW FROM THE VALVE. SCREW THE CYLINDER BACK ON AND CONTACT THE MANUFACTURER FOR INSTRUCTIONS FOR REPAIR.

- EXPLOSION HAZARD: Improper use, filling, storage or disposal may result in property damage, serious personal injury or death.
- This cylinder must be filled only by properly trained personnel in accordance with CGA Pamphlets P-1, C-6, G-6.8 and AV-7 available from the Compressed Gas Association, 4221 Walney Rd., Chantilly, Virginia 20151-2923
- Do not over-pressurize cylinder or exceed maximum capacity.
- Do not expose pressurized cylinder to temperatures in excess of 130 degrees F.
- Do not alter this cylinder or valve in any way.
- Do not expose cylinder to corrosive materials, caustic strippers or cleaners.
- Valves must be installed or removed only by trained personnel.
- Cylinders heated to a temperature of 350 degrees F or more must be condemned or re-qualified in accordance with test defined in CFR-49.
- Keep cylinder out of reach of children unless properly supervised.



REACTOR PRESET REGULATOR (REBUILDABLE)

Your Reactor preset Regulator is equipped with the industry standard "QD Style" fill fitting, allowing your system to be refilled either on or off the marker. Your Reactor regulator system may be filled with clean, dry either Compressed Air or Nitrogen. There will not be a noticeable difference in your marker's performance.

Use only properly rated fill fittings or assemblies when refilling your air system. Fill through the fill fitting only. This regulator is covered by a Lifetime Limited Manufacturers Warranty, which does not cover O-Rings, abuse, or neglect. For technical support, customer service, or complete warranty information contact Paintball Solutions at 1-800-220-3222 or visit www.paintballsolutions.com. DO NOT OVERFILL.

DO NOT EXCEED THE PRESSURE RATING LISTED ON YOUR TANK LABEL!

A high-pressure gauge showing tank pressure is standard with our air system.

As the operator, understand the importance of keeping dirt, oil, and water out of your air system. It is estimated that 99% of all regulator failures are due to dirt or contamination. Always keep a cover on the fill nipple when not filling the tank. If using Compressed Air, make sure the compressor is equipped with WORKING filters and moisture separators.

We recommend filling your air system no faster than 100 PSI/second. Filling your air system too quickly can cause your fill nipple to fail. Overly fast fills are dangerous to both the regulator and the tank and can lead to catastrophic failure.

UNDER NO CIRCUMSTANCES SHOULD ANY AIR SYSTEM BE REFILLED WITH PURE OXYGEN.

If the 1800 PSI safety burst disk vents, there must be sufficient cause. If this happens, we recommend the following:

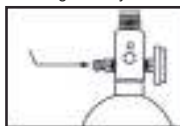
- Refer to the service procedures and clean dirt and debris from the regulator.
- Inspect the internal O-Rings [9, 10] for damage or dirt.
- Replace all worn or damaged parts.

Because your air system's preset regulator is factory set to deliver gas at normal pressure, there is no "setup" or user adjustment required. Your preset regulator system simply screws into your marker's ASA fitting. It has a "pin valve" type output valve which shuts off the gas delivery when the power system is removed from the marker.

Connecting Your System



Filling Your System



SERVICE & REBUILD PROCEDURES

PRIOR TO DISASSEMBLY, DE-GAS THE AIR SYSTEM COMPLETELY! ALL AIR MUST BE REMOVED FROM THE SYSTEM OR THE BONNET CANNOT BE REMOVED. ALL REPAIR PARTS MUST BE CERTIFIED FOR USE WITH THIS AIR SYSTEM OR WARRANTY IS VOID!

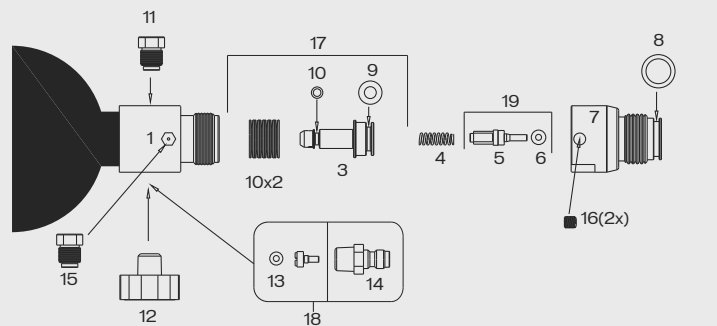
Your air tank regulator is completely rebuildable. Repairs can be done by any qualified technician without the need for special tools.

Never remove the Regulator Body [1] from the tank itself. All internal parts are accessed by removal of the Bonnet [7] from the Regulator Body [1].

1. To remove the Bonnet [7], first remove the two 08-32 Bonnet Set Screws [16] with a 3/32" Allen wrench.
2. When the two Bonnet Set Screws [16] are completely removed, unscrew the Bonnet [7]. Thread locking compound was not used, so do not apply heat! If the Bonnet [7] does not easily unscrew, a 1-7/16" (1.110") collet or a set of soft jaws in a vise can be used to hold the Bonnet [7].
3. After the Regulator Body [1] and Bonnet [7] have been separated, the Belleville Spring Pack [2], Piston [3], and Output Pin Valve [5] components can be removed.
4. Replace both O-rings [9, 10] on the Piston [3] with new parts.
5. Before reassembly, lubricate both piston O-rings [9, 10] using a silicone-based grease, such as Dow 33.

DO NOT USE OIL IN ANY HIGH PRESSURE REGULATOR OR FILL NIPPLE ASSEMBLY!

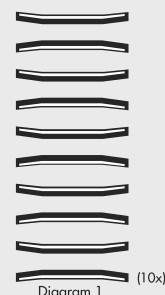
6. Reinstall the Output Pin Valve [19] and Pin Valve Spring [4] into the Piston [3] and carefully push the Piston Assembly [17] minus the Belleville Spring Stack [2] into the bore of the Bonnet [7]. The Piston [3] must be properly seated in the Bonnet [7] before proceeding further.
7. Place the Belleville Spring Stack [2] over the small end of the Piston [3] in the correct order (Diagram 1).
8. Once Belleville Springs [2] are in place, thread the Bonnet [7] onto the Regulator Body [1]. Do not apply excessive torque when screwing the Bonnet [7] and Regulator Body [1] together. Secure the Bonnet [7] using the two 08-32 Bonnet Set Screws [16] with a 3/32" hex key.



REGULATOR COMPONENTS:

1. Regulator Body	n/a
2. Belleville Springs (x10 BASICS)	use #17
3. Piston	use #17
4. Pin Valve Spring	40996
5. Pin Valve	40995
6. Bonnet O-Ring	40997
7. Bonnet Aluminum	40998
8. O-ring 015/90 UR	41010
9. Piston O-ring (large) 13.2x1.8 90A Urethane	41000
10. Piston O-ring (small) 8.1 x 1.8 90A Urethane	40994
11a. 7500 PSI Unified Burst Disk (4.5k tank)	41030
11b. 5000 PSI Unified Burst Disk (3k tank)	41029
12. Gauge 6000 PSI	40956
13. Quick Disconnect O-Ring & Pin	use #18
14. Male Quick Disconnect Housing	use #18
15. 1800 PSI Unified Burst Disk	41019
16. Bonnet Set Screws (qty 2)	40999
17. Piston Assembly - Parts #2,#20, #3,#5,#6	40993
18. Quick Disconnect Assembly - Parts #13,#14,#21	40973
19. Pin Valve with Bonnet O-ring	use #5 & #6

SPRING STACK ORIENTATION



8.1 x 1.8 [10]



13.2 x 1.8 [9]



015-90 - [8]