



JT AIR Preset Regulated High Pressure Air System

OWNER'S MANUAL

- Contains:**
- Safety Information
 - Warranty Information
 - Operating Instructions
 - Annotated Diagram
 - Trouble Shooting Guide

! alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

! **WARNING:** THIS IS NOT A TOY. MISUSE MAY CAUSE SERIOUS INJURY OR DEATH. EYE PROTECTION DESIGNED FOR PAINTBALL USE MUST BE WORN BY THE USER AND ANY PERSON WITHIN RANGE. RECOMMEND AT LEAST 18 YEARS OLD TO PURCHASE, 14 YEARS OLD TO USE WITH ADULT SUPERVISION, OR 10 YEARS OLD TO USE ON PAINTBALL FIELDS MEETING ASTM-STANDARD F 1777-02. READ OPERATION MANUAL BEFORE USING.

! **WARNING:** NEVER SHOOT AT ANYONE WITHOUT PROPER PROTECTIVE EQUIPMENT FOR EYES, EARS, THROAT AND HEAD, WHICH MUST BE WORN AT ALL TIMES. EYE PROTECTION MUST BE DESIGNED SPECIFICALLY FOR PAINTBALL USE. FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS MAY RESULT IN BODILY INJURY INCLUDING BLINDNESS AND DEAFNESS.



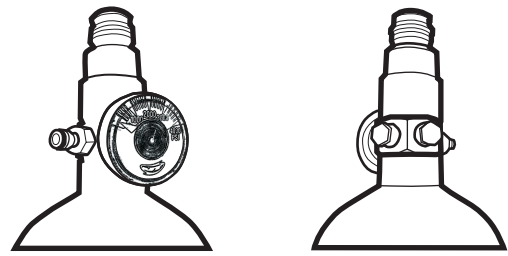
! **WARNING:**

- Never add any oil to your regulator. It may cause an explosion.
- NEVER add oil to the regulator valve.
- NEVER add any oil to your regulator valve to fix a leak. In the event of a leak, contact JTUSA at 1-800-755-5061.
- Your regulator valve is pre lubed with grease. NEVER add any oil to the valve to fix a leak or for lubrication.

Use only white lithium grease for tank threads lubrication or regulator lubrication.



To locate qualified JTUSA Factory authorized airsmith call 1-800-755-5061 www.JTUSA.com



Note: to protect your regulator threads it is recommended to purchase a regulator thread protector to be installed when the bottle is not in use. Dirt or debris inside a high-pressure air system can cause the regulator to fail. To prevent that occurrence please purchase and install a regulator fill nipple cover for your HPA system fill nipple.

To maintain the longevity of components of the HPA system, fill only with clean, dry, HPA.

! **WARNING:** All markers should be chronographed before use to determine ball speed. Compressed air and Co2 have different velocity characteristics in the same marker. Always re-chronograph your marker anytime you change air tanks, fill a tank, repair the marker, or change any marker components, including springs, barrel, ect.

HPA is the preferred choice of high level players throughout the world today, because HPA provides consistent velocities throughout wide ranges of temperature and atmospheric conditions, enhancing accuracy. In addition, the high-pressure air itself has essentially no weight, which enhances accuracy because the weight and balance of a marker and attached HPA system remains consistent.

HPA SYSTEM FILLING

HPA fills should only be performed by properly trained, qualified, and certified, persons.

NEVER OVERFILL THE CLYNDER. DO NOT EXCEED THE PRESSURE RATING STAMPED ON YOUR CYLINDER, 3000 PSI.



All components of the HPA fill system and marker HPA delivery system must be properly rated for use with a 3000 psi system. Components include but are not limited to 1/8th inch NPT straight through coupler, hoses, and fittings.
CAUTION: Fit of component does not indicate proper pressure rating.

To fill your HPA system, attach a 1/8th NPT straight through coupler to the input nipple fitting on the side of the valve.



Use only properly rated straight through coupler, hose and fittings.

TO FILL: Hold filling hose securely during filling procedure. Cylinder fill rate should not exceed 1000 psi per minute to avoid Rapid Thermal Expansion Stress to the cylinder. Filling the cylinder should only be done while the cylinder is detached from the marker. FILL only with clean and dry compressed air or nitrogen (N2). It is highly recommended that the bulk air source include a filter to "clean" and remove moisture from the air before it is put into this cylinder. Dirt or debris can lead to regulator failure. It is highly recommended that a fill nipple cover be used to cover the input nipple fitting other than during fills, to prevent debris from entering the cylinder, regulator, other HPA system components, and the marker. Never overfill past cylinder rating, 3000 psi. The person performing the cylinder fill should use a properly rated and calibrated fill station gauge.

TO DISCONNECT, bleed the airline of all air, and then remove the straight through coupler.

HIGH PRESSURE GAUGE: The HPA system includes a pressure gauge to show the amount of HPA in the cylinder pressure. The gauge markings may exceed the maximal pressure rating for the cylinder. For example: a 3000 psi system gauge with markings to 4000 psi. Do not exceed the pressure rating stamped on your cylinder (3000 psi). Should the gauge become cracked or damaged, DO NOT FILL the cylinder. The system will need to be serviced. Call JT USA Customer Service at 1-800-755-5061, or go to www.JTUSA.COM.

! **WARNING:** ONLY a qualified JT USA factory authorized airsmith should service the HPA system. Service work must only be performed on a cylinder that is completely empty of pressure with valve open. Use a tank on/off adaptor to vent your HPA system slowly. Once empty leave adaptor in place with valve open until cylinder has reached room temperature.

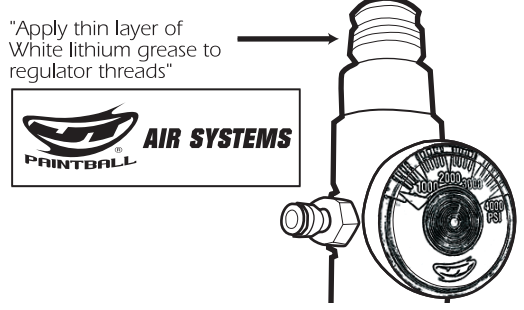
LEAKS

Should HPA leak from any part of the HPA system or marker, to avoid the possibility of pressure injury.

DO NOT STOP OR TRY TO LOCATE ANY AIR LEAK WITH ANY PART OF YOUR BODY INCLUDING, FINGERS, HANDS OR EARS.

HPA has the potential to cut through skin and other tissues and send HPA into the bloodstream. There it can cause an air embolism leading to death or serious bodily injury. Should you notice a leak, once vented and empty take the system immediately to a qualified JT USA factory authorized airsmith. Only soapy water should be used to attempt to locate the source of a leak. Should you notice a leak between the regulator and the cylinder at any time, **STOP**. Do not attempt to tighten or unscrew the regulator. Place marker on ground and move away until all leaking/venting stops. The HPA system will require servicing.

To locate qualified JTUSA Factory authorized airsmith call 1-800-755-5061 www.JTUSA.com

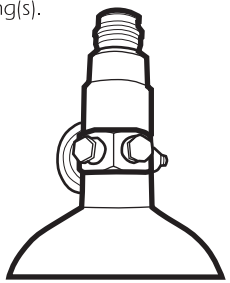


USING YOUR HPA SYSTEM

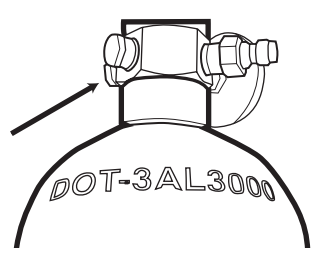
Your HIGH PRESSURE AIR (HPA) system comes standard preset at 800-psi (+/- 15 psi) output pressure. For use with markers designed to work with this input pressure only. This output pressure is similar in pressure to a Carbon Dioxide (Co2) Cylinder. Check your marker's owner's guide for the recommended input pressure for compatibility with this HPA system.

! **WARNING:** Do not look into the breach or the barrel of the marker while gas source is attached. Always wear Paintball Goggle System while handling a marker.

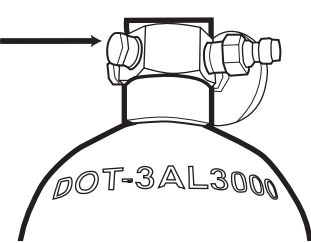
Safety Information Regulator: The HPA system regulator has two safety disks meeting ASTM standard F 2030-00. Location of the safety disk(s) is shown in the drawing(s).



US Department of Transportation regulations require both disks to be in place for cylinder to be filled. The safety disk marked 1800 (psi) is the safety disk closer to the gauge.



The safety disk marked 5k is the safety disk near the input fill nipple.



The purpose of a safety disk is to release HPA should there be an over pressurization in the cylinder/valve. If either safety disk leaks or vents, **DO NOT FILL** the cylinder. Installation of a replacement safety disk must only be performed by a qualified JT USA factory authorized airsmith. Replace a safety disk(s) only with a new properly rated safety disk from JT USA. Safety disk must be properly installed to correct torque specifications.

Any disassembly, change, or modification to the regulator, safety disk, or cylinder is dangerous and will void warranty. Removal of regulator from cylinder will void warranty. ONLY a qualified JT USA factory authorized airsmith should service the HPA system.

To locate qualified JTUSA Factory authorized airsmith call 1-800-755-5061 www.JTUSA.com

Installing your HPA cylinder

1. Install barrel plug.
2. Cock marker.
3. Put marker on safe.
4. Install HPA cylinder by locating threads in the ASA and turning clockwise until fully seated.



5. If tank o-ring leak occurs remove cylinder immediately and replace tank o-ring.
6. If leak occurs anywhere on your marker remove cylinder and repair leak before reinstalling cylinder.

Use only high quality urethane tank o-rings for replacement, available from JT USA.

Removing your HPA cylinder:

1. Put marker on safe
2. Remove paintballs from your marker and then remove the loader.
3. In safe area, remove barrel point to ground and fire marker several times.
4. Remove barrel plug from detached barrel and use squeegee to dislodge any paintballs.
5. Replace barrel plug and then barrel
6. Turn HPA cylinder counter clockwise for one turn.



7. In safe direction pointing at ground, fire marker several times.
8. Turn HPA counter clockwise for another turn.



9. Fire marker till all gas has been released or vented.
10. Should you notice a leak between the regulator and cylinder during removal **STOP**. Place marker on ground move away until venting/leaking has stopped.
11. Remove cylinder and prepare for storage or transportation.

HIGH PRESSURE ALUMINUM ALLOY CYLINDER

! DANGER

The cylinder can fly off with enough force to kill if the valve unscrews from the cylinder

- STOP if valve starts to unscrew from the cylinder. Screw it back on and take it to a trained person 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-6.3 and AV-7 available from the Compressed Gas Association, 4221 Walney Rd., Chantilly, Virginia 20151-2923.
- Valves must be installed and removed only by trained personnel.
- Never overfill the cylinder. Do not exceed the pressure rating stamped on your Cylinder, 3000 PSI.
- Do not expose to temperatures exceeding 130° F when pressurized.
- Do not use caustic cleaners or strippers.
- Do not modify this cylinder or valve in any way.
- Do not remove or cover this label.
- Cylinder *must* be destroyed if exposed to fire or heated to a temperature exceeding 250° F.
- Keep cylinder out of reach of children.

All components of the HPA delivery system must be properly rated for use with a 3000 psi system. Components include but are not limited to 1/8th inch NPT straight through coupler, hoses, and fittings.

CAUTION: Fit of component does not indicate proper pressure rating.

HYDROSTATIC TESTING: The cylinder in this HPA system must have hydrostatic testing performed pursuant to US Department of Transportation regulations and guidelines. Physical damage to the cylinder, including but not limited to dents and scratches, requires cylinder inspection before filling, pursuant to US DOT regulations and guidelines.

TRANSPORT OF CYLINDER: Cylinder must be drained of all air before any transportation via aircraft.

It is recommended to empty the cylinder before transport or storage, close the valve, and install the thread protector and input nipple cover to prevent dirt and debris from entering the cylinder.

SURFACE OF CYLINDER:

! **WARNING:** Cylinder is a pressure vessel holding high-pressure air. Do not change or alter the cylinder in any way as modification can cause death or serious bodily injury.

Do not put any coloring substance, including but not limited to paint, on the cylinder.

Do not put any chemicals, including but not limited to paint remover, cleaning solutions, or caustic solutions, on the cylinder.

Do not remove metal from the cylinder by machining, carving, scratching, or any other means.

Change or modification to the cylinder are dangerous and will void warranty.

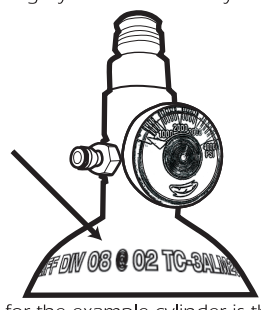
Do not place any sticker(s) on the cylinder. Do not remove the JT USA factory installed warning sticker.

The use of a protective cylinder cover, such as JT USA Pro-Series Tank Cover, is highly recommended to help protect cylinder from physical damage. Remove protective cylinder cover and inspect cylinder regularly for physical damage. If damage is observed, **DO NOT FILL**.

To locate qualified JTUSA Factory authorized airsmith call 1-800-755-5061 www.JTUSA.com

Cylinder Retesting

This cylinder must be hydrostatically retested every 5 years of life. Hydrostatic retesting must be performed by a licensed DOT re-certification facility. THE DATE OF MANUFACTURER, ON THE CYLINDER, DETERMINES this cylinder retest date. LOCATE THE date of manufacture. FOR EXAMPLE, Cliff Div. 08 @ 02 INDICATES THE DATE OF manufacture is the 8th month of 2002. The cylinder cannot be legally filled after 31 July 2007 unless it has been retested.



(((The retest date for the example cylinder is the first day of the 8th month of 2007.)))

Applicable reference standards relevant to HPA filling and handling include but are not limited to those of the U.S. Department of Transportation, Compressed Gas Association, and American Society for Testing and Materials (www.astm.org).

All handlers of compressed air or nitrogen (N2) should follow DOT regulation and CGA Standards for high-pressure gas handling.

WARRANTY INFORMATION

WARRANTY: LIMITED 90 DAY WARRANTY (ORIGINAL PURCHASE RECEIPT REQUIRED)
90 days parts and labor, from date of purchase, verified by your original purchase receipt. JT will repair or replace this product if defective in materials or workmanship. This warranty gives you specific legal rights. You may also have other rights, which may vary from state to state.
To obtain service call 1-800-755-5061 or go to www.JTUSA.COM.

SERVICE: DO NOT RETURN TO PLACE OF PURCHASE. To return this product for service or replacement you must have RA and your original purchase receipt. Product with RA number must be returned via trackable means. Product returned via regular mail or parcel post may become lost and JT USA will not be responsible for replacement.

If you have a returns question contact: JT USA Customer Services



252 Granite St.
Corona, CA 92879
U.S.A.
www.JTUSA.com
1-800-755-5061

HPA System Specifications

- Fill with only Compressed Air or N2
- Volume: 50 cu in.
- Max cylinder pressure: 3000 PSI
- Output pressure: 800 PSI (+/- 15 PSI)
- High-pressure safety disk: 5K (5000 PSI)
- Low-pressure safety disk: 1.8K (1800 PSI)
- Output thread and size: 1/8th in. NPT
- Gauge thread and size: 1/8th in. NPT
- Regulator thread: .830-14 NGO