CUSTOM PRESSURE

NinjaPaintball

NINJA X REGULATOR OWNERS MANUAL

CUSTOM OUTPUT PRESSURE
1.877.NINJAUSA (1.877.646.5287)

VIDEO GUIDES

NINJA X REGULATORS FEATURE A RECESSED BALL DESIGN. THIS IS NOT COMPATIBLE WITH TRADITIONAL PAINTBALL STYLE AIR SOURCE ADAPTERS. YOU MUST USE A "LONG PIN" ASA TO ACTIVATE THE BALL. IN CERTAIN CIRCUMSTANCES THE BALL MAY BE REMOVED ENTIRELY. IN THESE CASES THE REGULATOR MAY ONLY BE FILLED ONCE FULLY CONNECTED TO THE GUN OR ADAPTER.

⚠WARNING: This is not a toy. Misuse may cause serious injury or death. Eye protection designed specifically for paintball must be worn by the user and persons within range. Recommend 18 years or older to purchase. Persons under 18 must have adult supervision. READ OWNERS MANUAL BEFORE USING

THE SAFETY SYSTEM

The NINJA Regulator is equipped with an ASTM COMPLIANT bottle Burst Disk required by the Department of Transportation (D.O.T)

In addition to the required safety burst disk, the regulator has a Low Pressure (LP) safety burst disk

The LP safety burst disk is there to protect you and your airgun in the unlikely event your Ninja regulator fails.

⚠ **REMEMBER**, Most regulator failures are the result of contaminated air.

If the LP safety burst disk vents, it did so for a reason. We recommend you do the following:

Disassemble the regulator (refer to Service and Rebuild procedures), inspect the regulator for contamination and clean if necessary.

Install a new LP Burst disk, PER THE INSTRUCTIONS ON PAGE 6, Available at most paintball or airgun shops and refill the system.

If the LP burst disk vents after rebuild see and airsmith for help or call : 1.877.NINJAUSA (1.877.646.5287)

NINJA REGULATORS have a Safety Vent Groove on the stem (as shown in below image). This lifesaving feature allows for the venting of the bottle, in the event the regulator is unscrewed from the bottle with pressure present in the bottle.

ALWAYS CHECK TO MAKE SURE THERE IS NO GAP BETWEEN THE BOTTLE AND REGULATOR SEAL. SEE ILLUSTRATION BELOW.

⚠ **IF THERE IS A GAP STOP!! DO NOT FILL OR USE YOUR SYSTEM**

Safely drain your system and wait for the system to FULLY DEGAS! Contact a qualified Airsmith IMMEDIATELY OR CALL 1.877.NINJAUSA

Recessed Ball Bonnet

FILLING THE NINJA *X* REGULATOR SYSTEM

The ***X*** Regulator system is equipped with the industry standard “QD Style” fill fitting, which allows your ***X*** Regulator system to be refilled either on or off the marker/ gun. The ***X*** Regulator system may be filled with clean ***dry*** Compressed Air or Nitrogen.

UNDER NO CIRCUMSTANCES SHOULD THE FLEX REGULATOR SYSTEM BE FILLED WITH PURE OXYGEN. OXYGEN WILL IGNITE CAUSING INJURY OR DEATH.

When filling your ***X*** Regulator system do not exceed the pressure rating shown on the CYLINDER’S LABEL.

DO NOT APPLY OR INJECT OIL OF ANY TYPE INTO THE FILL OR BURST DISK PORTS. OIL WILL VAPORIZE AND POSSIBLY IGNITE DURING THE FILL PROCEDURE CAUSING INJURY OR DEATH

It is important to keep dirt, oil, and water out of your ***X*** Regulator system. Most regulator failures are due to dirt or contamination. Always keep a cover on the fill nipple when you are not filling the Flex Regulator system. If you use compressed air, make sure that the compressor providing that air is equipped with **WORKING** filters and moisture separators.

CONNECTING YOUR X REGULATOR

SLOWLY Screw your ***X*** Regulator system into your Ninja PCP Fill Station or Guns ASA fitting. It is recommended that you apply lube on the ***X*** Regulator bonnet threads. This simple procedure will reduce bonnet and ASA thread wear. The ***X*** Regulator has a recessed ball valve which shuts off the gas delivery when the system is removed from the Ninja PCP Fill Station or gun ASA Fitting.

DUE TO THE HIGH OUTPUT OF THE X REGULATOR IT HAS BEEN DESIGNED WITH A RECESSED BALL STYLE ACTIVATION. THIS CANNOT BE USED IN ANY TRADITIONAL SHORT PIN ASA’S OR ADAPTERS. A LONG PIN MUST BE USED

SERVICE & REBUILD PROCEDURES

FOR SAFETY AND RELIABILITY ONLY USE NINJA REPLACEMENT PARTS. VIDEO GUIDES AVAILABLE USING THE QR CODE PROVIDED ON THE FIRST PAGE OF THIS MANUAL.
For reference purposes, consult the exploded parts diagram found on page 8.

ALWAYS WEAR EYE PROTECTION, GLOVES AND POINT THE AIR SYSTEM IN A SAFE DIRECTION AWAY FROM YOURSELF AND ALL BYSTANDERS PRIOR TO DEGASSING THE SYSTEM!

SPARE PARTS & REBUILD KITS AVAILABLE AT YOUR NINJA DEALER.
NOTE: THE FOLLOWING TOOLS MAY BE REQUIRED AND ARE AVAILABLE AT MOST HARDWARE STORES:

-3/32" HEX KEY WRENCH TO REMOVE BONNET SET SCREWS #2
-10-32 THREADED MACHINE SCREW 2"-4" LONG TO HELP REMOVE BONNET

PRIOR TO DISASSEMBLY FULLY DEGAS THE AIR SYSTEM

POINT THE BOTTLE AWAY FROM YOURSELF AND BYSTANDERS

DEPRESS THE BALL VALVE UNTIL NO AIR REMAINS IN THE BOTTLE!!

IF YOU ARE NOT COMFORTABLE WITH DISASSEMBLING THE REGULATOR, BRING THE REGULATOR TO A QUALIFIED AIR SMITH OR CALL 1.877.NINJAUSA (1.877.646.5287)

1. All internal parts are accessed by removing the Bonnet set screws (#2) with the 3/32" hex wrench and unscrewing the Bonnet (#3) from the Gas Distribution Body (#16).

2. After separating the bonnet (#3) from the Gas Distribution Body (#16), The spring stack (#9), Shims (#10), Piston (#8) and ball valve components (#5 & #6) can be removed. **Helpful Hint:** Do not use tools to remove the piston (#8) as this may damage the piston. Firmly grip the end of the piston and wiggle the piston while pulling with your fingers.

3. Clean the inside of the Ninja X Gas Distribution body (#16) and Bonnet (#3) with a cotton swab. If required rubbing alcohol can be used.

4. To reassemble, lightly lubricate the piston "O" Rings (#7 & #12) using silicone lube.

5. Re-install the Output Ball Valve and Spring (#5 & #6) by dropping the ball (#5) into the bonnet (#3). Make sure the ball (#5) is seated and located in the bonnet pocket.

6. Place the ball spring (#6) into the piston cavity. Then carefully push the piston assembly into the piston bore in the Bonnet (#3). The Piston must be properly seated in the bonnet before proceeding further. The Piston is properly seated when it cannot be pushed in any further.

7. Do not apply excessive torque when screwing the Bonnet (#3) and Gas Distribution Body (#16) together. Replace and securely tighten the (2) 10-32 Bonnet retaining screws (#2) with the 3/32" hex key wrench.

BALL VALVE SEAT REPLACEMENT

1. The Ball Valve Seat (#4) sits inside of the Bonnet (#3) in the bonnet pocket. To replace the Ball Valve Seat (#4) use a small pick to gently pull the Ball Valve Seat from the Bonnet taking care to not damage the Bonnet.

2. When Placing the Ball Valve Seat (#4) into the Bonnet (#3) place the seat within the inner Bonnet pocket and gently push it into place using the eraser end of a pencil or similar small blunt object.

BURST DISK REPLACEMENT

ASTM compliant Unified Burst Disks are used on paintball regulators and CO2 Valves for both the D.O.T. (Department Of Transportation) required bottle protection and downstream over-pressure protection.

THE 3000 PSI (3K) BURST DISK IS FOR CO2 BOTTLES ONLY!!!

Four (4) most common burst disks.
1800 PSI. Used for down stream over-pressure safeties on regulators.

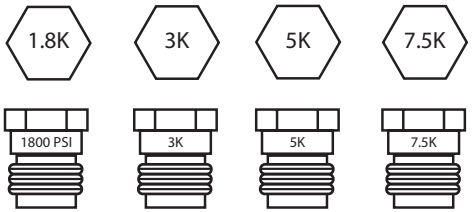
3000 PSI. Used for the D.O.T. required safety on CO2 storage bottles.

5000 PSI. Used for the D.O.T. required safety on 3000psi N2/HPA storage bottles and on "X" PCP/ ***FLEX*** regulators as the downstream safety.

7500 PSI. Used for the D.O.T. required safety on 4500psi rated N2/HPA storage bottles.

WARNING SERIOUS PERSONAL INJURY OR DEATH FROM IMPROPER DISK REPLACEMENT. IT IS ABSOLUTELY ESSENTIAL THAT YOU ONLY REPLACE FAILED UNITS WITH EXACT REPLACEMENTS!! ASTM UNIFIED BURST DISKS HAVE THE PRESSURE IDENTIFICATION MARKED ON THE HEAD OF THE DISK. SOME DISKS MAY HAVE THE PRESSURE IDENTIFIER ON THE SIDE OF THE DISK.

IF YOU ARE UNSURE DO NOT GUESS! SEE A QUALIFIED AIRSMITH OR CALL 1.877.NINJAUSA (1.877.646.5287)



TO REPLACE A UNIFIED BURST DISK ASSEMBLY:

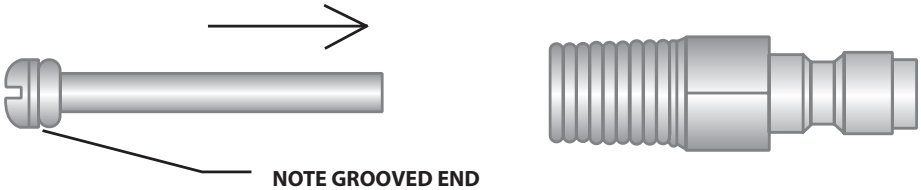
1. Unscrew (turn counterclockwise) the failed unit and discard it. **(They are not serviceable)**
2. Visually inspect the female port for damage or debris and clean out if necessary. If the port is damaged, do not replace the disk. Consult an airsmith or call 1.877.NINJAUSA for assistance. We recommend the female port be checked with a 3/8-24 UNF-2B go/no go gauge available at www.mscdirect.com
3. Screw in the new replacement unit and torque to a minimum 55 inch-pounds and a maximum 95 inch-pounds. UNIFIED BURST DISK MUST BE ASSEMBLED WITH AN INCH POUND TORQUE WRENCH!
4. If Burst Disk assembly does not seal at 95 inch-pounds, the valve should be inspected by an airsmith or call 1.877.NINJAUSA for assistance.

NINJA FILL CHECK VALVE REPLACEMENT

The Fill Check Valve on your Ninja regulator is one of the items that will require periodic replacement, Either due to leakage or mechanical wearing damage to the QD portion of the fill nipple which will cause difficulties attaching the fill valve to a fill station. **TO REPLACE FOLLOW THE PROCEDURE BELOW:**

1. ALWAYS WEAR SAFETY GLASSES AND POINT THE REGULATOR AWAY FROM YOURSELF AND ALL BYSTANDERS.
2. MAKE SURE THE SYSTEM IS COMPLETELY DE-PRESSURIZED BY DEPRESSING THE BALL VALVE UNTIL ALL AIR HAS BEEN RELEASED.
3. Using a **7/16" wrench**, turn counterclockwise. Remove the old fill check assembly.
4. Clean any debris out of the port.
5. Inspect the 1/8" NPT female fill check port threads on the gas distribution body for damage. **IF THREADS ARE DAMAGED OR WORN STOP! DO NOT USE THE REGULATOR SEE AN AIRSMITH OR CALL 1.877.NINJAUSA.** It is recommended that a go/no go gauge be used to verify these threads. This gauge is available at www.mscdirect.com
6. A thread sealant has been applied to the threads on the new Ninja fill check. Do not use any additional sealant or PTFE tape.
7. Make sure the strut is inserted fully into the NINJAOFV as shown below
8. Install the Ninja Fill Check Valve assembly turning clockwise until it is hand tight, and then tighten a further 1 & 1/2 turns. It should not be necessary to exceed 100 inch-pounds of torque to achieve sealing.
9. If the fill valve is leaking **STOP** and contact an Airsmith or call 1.877.NINJAUSA for assistance.

NEVER INJECT OIL INTO THE FILL PORT VALVE. OIL DROPLETS CAN VAPORIZE AND IGNITE DURING THE FILL PROCEDURE CAUSING INJURY OR DEATH



NINJA *X* REGULATOR BREAKDOWN

1. Tank O-Ring (015-90u x 2)
2. Bonnet Set Screws
3. Bonnet
4. Ball Seat
5. Ball
6. Ball Spring
7. Piston O-Ring (010-90u)
8. Piston
9. Belleville Spring Stack**
10. Fine adjustment shims (QTY may vary)
11. Piston O-Ring (008-90u)
12. Bottle Pressure Gauge
13. Low Pressure Burst Disk
14. High Pressure Burst Disk
15. Fill Check Valve assembly
16. Gas Distribution Body

NINJA VIDEO GUIDES CAN BE FOUND BY SCANNING THE QR CODE ABOVE