



INFERNO™
XTS

OWNER'S MANUAL



WOLVERINE AIRSOFT

www.wolverineairsoft.com

Important Safety Information

This product is not a toy. Adult supervision is required. This product is intended for use by those 18 years of age or older. Misuse or careless use of airsoft guns may cause serious injury, especially to the eye[s], or death. Eye and mouth protection designed for airsoft guns must be worn at all times by the user and any person within range. Read the instructions and owner's manual for this product and for your airsoft gun prior to use. The buyer and the user of this product and airsoft guns have the duty to obey all local, state, and federal laws.

Important: modifying your airsoft gun with this product may alter its accuracy and range. User of this product may make your airsoft gun dangerous up to 200 meters.

Table of Contents

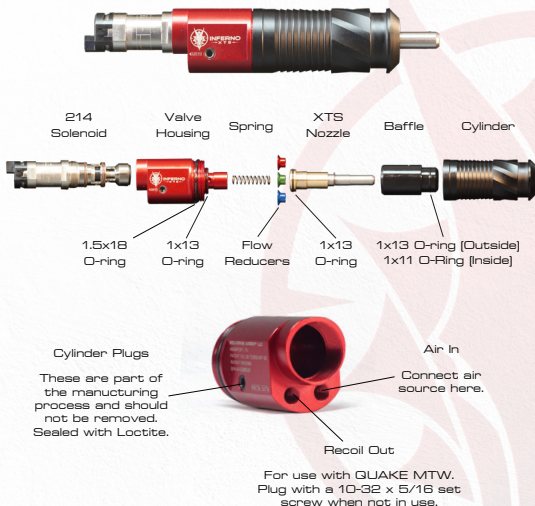
Components	4
Installation	5
General Usage / Tuning	6
Maintenance	8
Nozzle Service	10
Troubleshooting	11

Don't Forget to Register Your Warranty!

Your INFERNO XTS HPA Engine is backed by Wolverine Airsoft's limited warranty. Scan the QR code or visit www.wolverineairsoft.com/warranty to read our full warranty and register your INFERNO XTS HPA engine.



Overview



Specifications

Pressure Operation Range: 60-160 PSI

Minimum sealing pressure: 30PSI

Voltage Operation Range: 6-8V

Muzzle Energy: .75J-3J (Setup Dependant)

ROF: 5-35 RPS (Setup Dependant)

Note: With the exception of the solenoid and some O-rings, INFERNO XTS components are not interchangeable with previous generation INFERNO engines.

Installation

The INFERNO XTS installs similarly to other Wolverine Airsoft engines including the INFERNO Gen 2. Note: If installing with the QUAKE MTW, see the QUAKE MTW Owner's Manual.

Attach your air line to the "AIR IN" port on the rear of the valve housing. Use a 1/4" wrench and gently tighten.



Slide the engine into the upper receiver. Run the contact yoke wire through the receiver and plug it into solenoid the rear of the engine.



Position the engine so that the retaining groove of the cylinder aligns with the grooves on the upper receiver. The retaining clip and contact yoke should snap into place when correctly aligned.



General Usage / Tuning

The performance of the INFERNO XTS can be tuned through a combination three components:

Input Pressure

Controlled by your airsoft regulator, a higher input pressure will result in a higher maximum output pressure.

The INFERNO XTS is designed to operate between 60 and 160 PSI. Lower input pressures will not allow the engine to seal properly and allow air leakage. Higher pressures could permanently damage your engine and other components.

Refer to your regulator owner's manual to adjust the input pressure.



Dwell

Controlled by the electronic FCU, dwell is the measurement of time the solenoid valve remains open each time your gun is fired.

For maximum efficiency, the dwell time must be set precisely to provide just enough air to carry the BB to the end of the barrel. Higher dwell will waste air, and lower dwell results in inconsistent velocity and lower accuracy.

Refer to your FCU owner's manual for instructions on tuning the dwell.



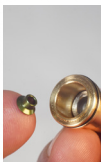
Flow Reducers

Flow reducers restrict airflow through the nozzle and lower output energy.

Use of flow reducers is only recommended as a last-resort method to lower output energy to meet field requirements in some regions.

Additionally, flow reducers can be used to adjust the amount of recoil when using the QUAKE MTW Recoil stock. See the QUAKE MTW Owner's Manual for more information.

The INFERNO XTS includes three flow reducers that can be individually installed for different effects.



Color	Diameter	Velocity Reduction
Blue	0.08"	Approx 50% at 110 PSI
Green	0.10"	Approx 25% at 110 PSI
Red	0.13"	Approx 10% at 110 PSI

Maintenance

Regular maintenance on the INFERNO XTS HPA engine should be performed every 25-50k rounds depending on the conditions it is being used in. The dustier and dirtier the conditions, the more frequently it should be serviced.

Items needed:

- O-ring compatible lubricant (ex. TechT GunSav)
- Clean, lint-free cloth
- O-ring pic

Begin disassembling your engine by unscrewing the two halves counterclockwise. Separate the cylinder, baffle, nozzle and spring.



Clean the components with a clean, dry cloth and inspect them for any damage.



Inspect all five O-rings and if necessary, use an O-ring pick to remove and replace them.

[See page 4 for O-ring sizes and placement.



Apply a small amount of lubricant around the circumference of each O-ring.

To reassemble, first insert the nozzle into the baffle until it is fully seated.

Insert the nozzle and baffle into the valve housing until they are fully seated.

Install one end of the spring into the back of the nozzle and the other into the nose of the valve housing.

Carefully screw the cylinder clockwise onto the valve housing and hand-tighten it. Pressurize the engine and test for leaks before reinstalling it in your gun.

Refer to the Troubleshooting guide **[Page 10]** to identify the source of any leaks.



For solenoid maintenance, please refer to our separate Solenoid Maintenance Guide available at www.wolverineairsoft.com/knowledgebase.

Nozzle Service

The INFERNO XTS nozzle should be serviced if the nozzle doesn't move smoothly within the brass poppet, or if you are experiencing low joules that is not corrected by regular engine maintenance.

Fully extend the nozzle and use pliers to remove the C-clip from the nozzle, then separate the nozzle from the poppet.



Inspect the 1x7.5 O-ring around the nozzle and replace if it is damaged. Apply a small amount of lubricant all the way around the O-ring.



Reinsert the nozzle into the poppet and replace the C-clip in the groove as indicated. Ensure it is fully seated and secure.



Troubleshooting

If your INFERNO XTS is leaking, use this chart to identify the O-ring that could be faulty.

Potential Leak Points



O-Rings



Leak Point	Fault Location
1	O-rings A or B RECOIL OUT port should be sealed with a 10-32 x 5/16 set screw if not in use.
2	O-ring D
3	O-rings G or H
4 Slow	O-rings C, E, or F
4 Fast	Debris in Solenoid

Need professional help?

To find a retailer close to you visit:
www.wolverineairsoft.com/dealers



www.wolverineairsoft.com