



**WRAITH**



**WOLVERINE**  
AIRSOFT

## **Welcome to the Wolverine Airsoft HPA Family!**

Your WRAITH X comes with following contents in the package. Please ensure that all components of the package are present and undamaged.

### **All packages contain:**

WRAITH X  
2mm Allen wrench  
3/32" Allen wrench  
Seal Kit  
WRAITH X Patch  
Hard Stop

### **These kits also contain:**

#### **MTW Kit**

Hardpoint Adapter  
Grip Base Plate  
Castle Nut  
Mini Airline  
Airline Fitting

#### **AEG Kits**

AEG Airline with threaded adapter  
Airline fitting  
Castle Nut  
Buffer Tube Nut

## Table of Contents

Important Safety Notices	4
Getting Started	5
MTW Installation	6
General Use / Maintenance	8
Regulator Maintenance	10
Expansion Chamber Maintenance	12

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## Don't Forget to Register Your Warranty!

Your WRAITH X is backed by Wolverine Airsoft's limited warranty. Scan the QR code or visit [www.wolverineairsoft.com/warranty](http://www.wolverineairsoft.com/warranty) to read our full warranty and register your WRAITH CO2 Stock.



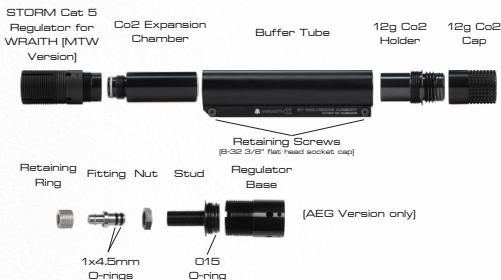
## **Important Safety Notices**

High pressure air systems contain air compressed under great pressure and should always be treated with care to avoid serious injury or death. Never leave HPA or CO2 tanks in direct sunlight (including during play), in parked cars, or otherwise submit them to excessive heat. Heat will cause an unsafe rise in pressure in the tank which could lead to serious injury or death.

Use of the WRAITH X may void your non Wolverine Airsoft HPA system warranty. Check with the manufacturer.

## Getting Started

Your WRAITH X is a precise instrument containing many individual components. Before you begin, please see the diagram below and familiarize yourself with each component.



## Specifications

Pressure adjustment Range: 60-180 PSI  
 Recommended Service Time: 100,000 shots  
 or every 6 months

Your WRAITH X uses a STORM Category 5 regulator with a unique cap design for WRAITH X. For more information including a detailed parts diagram, see the STORM Category 5 Owner's Manual.



## MTW Installation

First, separate the MTW upper and lower receivers. Then, remove the stock and buffer tube by loosening the castle nut and rotating the stock counter-clockwise. Be sure not to lose the detent and spring.



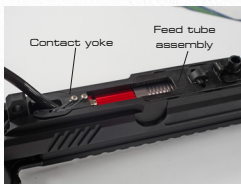
Screw the WRAITH X into the receiver all the way until the front of the buffer tube is flush with the inside of the receiver. Be sure the sling plate is correctly aligned with a groove in the WRAITH X and the MTW receiver, and the detent and spring are in place.



Secure the sling plate to the receiver with the castle nut. You may wish to use an armorer's wrench or a small hammer and punch to ensure the castle nut is tightened completely.



Remove the engine from the upper receiver. You may need to first remove the contact yoke and unplug it from the engine if applicable. Then remove the feed tube assembly and engine.



Remove the standard air line from the engine and connect the mini air line that came with your Wraith X. **DO NOT USE THE STANDARD AIRLINE.** Connect the hard-point adapter into the other end of the air line. Tighten both fittings with a 1/4" wrench.



Slide the engine back into the receiver. The hard-point adapter should stick beyond the upper receiver so that it can fit into the hole in the regulator. Reconnect the contact yoke and then reinstall the engine with the feed tube assembly and contact yoke.



Lubricate the hardpoint adapter and rejoin the upper and lower receivers, ensuring the hard-point adapter fits snugly to the regulator. Make sure the body pins are in the outward position.



## AEG Installation

Installation of the WRAITH X requires permanent modification to the gun being installed and should only be undertaken by a qualified technician. Wolverine Airsoft is not responsible for damage to the airsoft gun or HPA system being used with the Wolverine Airsoft Wraith X. For more information and videos on the WRAITH X, visit [www.wolverineairsoft.com/knowledgebase](http://www.wolverineairsoft.com/knowledgebase).



## General Use / Maintenance

### Adjusting Pressure

Adjust the pressure by using the included 3/32" hex key to turn the small set screw on the regulator as shown. Turn the screw clockwise to increase pressure, and counterclockwise to decrease pressure.



### 12g Co2 Cartridges

With the 12g Co2 holder installed, place the cartridge into the stock. Start the threads clockwise onto the 12g Co2 cap, ensuring the threads are properly aligned. Tighten firmly until the Co2 cartridge is punctured.



### 33g Co2 Cartridges

Use the supplied 2mm Allen key and loosen the rear retaining screw one full turn counterclockwise. Then, completely remove the 12g CO2 holder by rotating it counterclockwise.



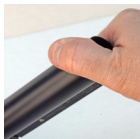
Insert the 33g CO2 cartridge and tighten it clockwise firmly until it is punctured.





### Using an HPA Tank

Use the supplied 2mm Allen key and loosen the front retaining screw one full turn. Then, separate the buffer tube and regulator by rotating the buffer tube counterclockwise.



Unscrew the CO2 expansion chamber from the regulator counterclockwise. Lightly coat the threads on your HPA tank with a **silicone-based lubricant** and thread the tank into the regulator.



### Regulator Lubrication

The WRAITH X uses a STORM Category 5 regulator which contains high precision hardened steel internals for maximum performance. To prevent corrosion and ensure uninterrupted performance it is recommended to give a brief spray of silicone based lubricant into the vent hole every few uses or before extended storage.



### Storage

To store the regulator when not in use, you should remove the air supply from the regulator and depressurize the regulator. The regulator should also be stored in a dry environment to avoid corrosion to parts.

## Regulator Maintenance

Your WRAITH X includes a built-in STORM Category 5 regulator which is designed to require very little maintenance. However if you feel the regulator is in need of lubrication you can disassemble it, use TechT Gun Sav or another O-ring safe lubricant on all O-rings, and reassemble.

Begin by removing the two locking screws with a 1.5mm hex key.



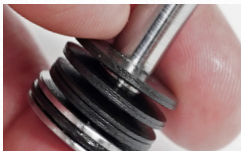
Use the included 3/32" hex key to turn the pressure adjustment screw clockwise until it is inserted fully into the regulator cap.



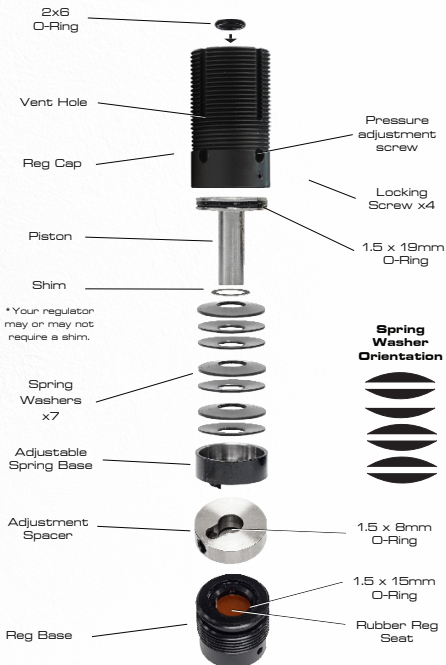
Insert the 3/32" hex key or other tool through the two holes on the regulator base for leverage and then unscrew the base counter-clockwise from the regulator cap. Remove the internals.



Remove any dust and debris, lubricate or replace the three O-rings and reassemble. During reassembly, pay special attention to the orientation of the seven spring washers as indicated on page 11.



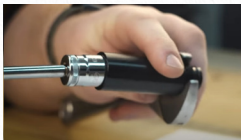
**IMPORTANT:** Your STORM Category 5 regulator contains high precision hardened steel internals for maximum performance. To prevent corrosion and ensure uninterrupted performance it is recommended to give a brief spray of silicone based lubricant into the vent hole every few uses or before extended storage.



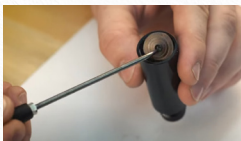
## Expansion Chamber Maintenance

In the event you have a leak around the CO2 cartridge, you should perform maintenance on the expansion chamber.

Use an 18mm or adjustable wrench to hold the flats on the expansion chamber, then use a 15mm socket to remove the screw that retains the seal and puncture pins.



Use an O-ring pick to remove the seal. Inspect the seal and puncture pin and replace if damaged. Reassemble the expansion chamber and hand-tighten the retaining screw.



Inspect the O15 O-ring on the expansion chamber. If necessary, use an O-ring pick to remove and replace it.



Apply a small amount of silicone-based lubricant like TechT Gun Sav in a circular motion around the O-ring.





## **Need professional help?**

To find a retailer close to you visit:  
[www.wolverineairsoft.com/dealers](http://www.wolverineairsoft.com/dealers)



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