

# BOLT

## OWNER'S MANUAL



**WOLVERINE AIRSOFT**

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

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

Your BOLT HPA engine kit comes with following contents in the package. Please ensure that all components of the package are present and undamaged.

### **Package Contents**

BOLT HPA Engine

BOLT patch

Airline

Airline Fitting

O-Ring Kit

Cylinder Head

Cylinder [Cylinder Kit Only]

## **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.

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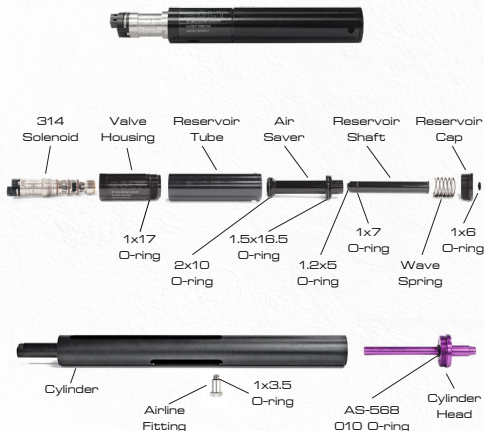
### **Don't Forget to Register Your Warranty!**

Your BOLT HPA Engine 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 BOLT HPA engine.



## Getting Started

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



## Specifications

Pressure Operation Range: 80-180 PSI  
Voltage Operation Range: 6-8V  
Muzzle Energy: .5J-3J [Setup Dependant]  
Rate of Fire: N/A

## Installation

The process of installing the BOLT HPA engine can vary greatly depending on your replica. To make it easier, we have a variety of videos available online specific to a common gun platforms.



Please scan the QR code or visit [www.wolverineairsoft.com/documentation](http://www.wolverineairsoft.com/documentation).


























## Compatibility

- Tokyo Marui VSR 10\* [Cylinder recommended, Use of stock cylinder requires drilling out rivets]
- JG Bar 10 [Cylinder not required]
- Echo1 M28 [Use stock cylinder]
- Cybergun FN Herstal SPR [Cylinder required]

**WARNING:** Many different brands and gun variants claim to be VSR compatible, but have small differences which can cause compatibility issues with our system. If you do not see your gun listed, please contact us or your local retailer for assistance before purchasing.

## Tuning

The BOLT requires no tuning in a standard installation, but when operating at high pressure or using a short barrel, you may benefit from the optional BOLT Tuning Kit to save air. The kit contains our red high pressure wave spring and three shims. When installing shims, place them between the air saver and spring as shown below.

				<b>80 PSI</b> Standard Spring
				<b>90 PSI</b> Standard Spring 1 shim
				<b>100 PSI</b> Standard Spring 2 shims
				<b>110 PSI</b> Standard Spring 3 shims
				<b>120 PSI</b> High Pressure Spring
				<b>130 PSI</b> High Pressure Spring 1 shim
				<b>140 + PSI</b> High Pressure Spring 2 shims [Do not exceed]

## Maintenance

Regular maintenance on the BOLT 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. [We recommend TechT GunSav]

Begin by disassembling your BOLT unit by unscrewing the two halves counterclockwise.



When you take the two halves apart, the 1.2 x 5mm O-ring can be in one of two positions: on the valve body or around the piston. The O-ring will seal properly in either position, you just need to keep track of it for reassembly. Inspect this O-ring for damage or debris as either could compromise the seal. Lightly apply lubrication if necessary.



Inspect the 1 x 17mm O-ring on the valve body for damage or debris as either could compromise the seal. Lightly apply lubrication if necessary.



Remove the reservoir cap from the reservoir tube by unscrewing it counterclockwise. Notice the 1mm x 6mm O-ring in cap and inspect the O-ring for damage and debris. Be sure to keep track of this O-ring for reassembly.



Remove the spring and Air Saver. Inspect the 2 x 10mm Viton O-ring and the 1.5 x 16.5mm O-ring for damage or debris. Lubricate thoroughly if necessary.



Finally, push the shaft out of the air saver and inspect the 1 x 7mm O-ring for debris or damage. Lubricate thoroughly if necessary. Install the 1.2x5mm O-ring on the small tip of the shaft. Then, slide the piston back into the Air Saver.



Slide the Air Saver back into the reservoir tube. You will notice there is a ledge in one end of the tube. The small end of the Air Saver pushes past this ledge to seal.



The wave spring is now ready to be put back in the unit. Simply place the spring on the Air Saver in the cap-end of the reservoir tube with the two vent holes.





Screw the reservoir cap clockwise into the tube but do not screw it in all the way. Make sure the 1 x 6mm O-ring is still in the cap.



Next, screw the valve body clockwise into the tube but not screw it in all the way. Make sure the 1.2 x 5mm O-ring is still lined up with the center of the shaft.



Go back and screw the reservoir cap in the rest of the way. Finish by screwing the valve body in completely.



For solenoid maintenance, please refer to our separate Solenoid Maintenance Guide available at [www.wolverineairsoft.com/documentation](http://www.wolverineairsoft.com/documentation).

## **Need professional help?**

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



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