

# WA INFERNO INSTRUCTIONS BOOKLET

## TABLE OF CONTENTS

1. Package Contents
2. Installation
3. Premium Electronics Tuning
4. Spartan Electronics Tuning
5. Maintenance
6. Troubleshooting
7. Warranty
8. Product Specs

### 1. PACKAGE CONTENTS

- 1x Inferno Cylinder

#### Spartan Package

- 1x V2 Integrated FCU/Trigger board
- 1x Buffer Tube Adapter

#### V2 Package

- 1x V2 Trigger Board
- 1x Buffer Tube Adapter
- 14" Wiring Harness
- 1x FCU
- 1x Tool Kit
- 1x V2 Mini Lipo

#### V3 Package

- 1x V3 Trigger Board
- 12" Wiring Harness
- 1x FCU
- 1x Tool Kit
- 1x V2 Mini Lipo

#### M249 Package

- 1x M249 Wire Harness
- 1x FCU
- 1x Tool Kit
- 1x V2 Mini Lipo

## 2. INSTALLATION

We strongly suggest having a professional install your Inferno! To find a retailer close to you visit:

For instructions for your specific platform please visit:

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

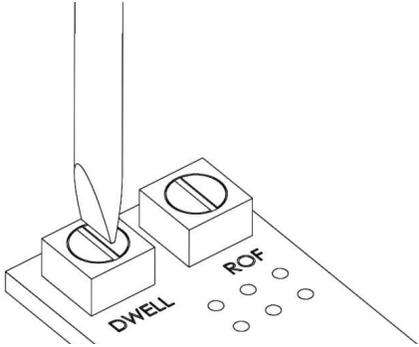
## 3. PREMIUM ELECTRONICS TUNING

### Step 1: Set the air pressure

Increase the dwell time to its maximum setting by turning the dial labeled "dwell" counter clockwise as far as it will go.

Connect your high pressure air (HPA) tank and regulator.

Using a chronograph, adjust the air pressure by turning the adjustment knob on your regulator to achieve the velocity you want. **NEVER EXCEED THE SPECIFIED OPERATING PRESSURE OF 140 PSI. DOING SO MAY DAMAGE TO THE PRODUCT OR CAUSE SERIOUS INJURY.**



### Step 2: Maximize air efficiency

To achieve maximum air efficiency, turn the dwell time down as far as possible until the velocity begins to drop. This is the precise point at which you are providing just enough air through to carry the BB to the end of the barrel. If you don't have a chronograph to do this step, you can also watch the flight of the BB and listen to the sound of the gun firing. When you see a reduction in range or velocity and the muzzle crack becomes muffled, you have turned the dwell down too far and you are no longer providing enough air. Turn the dwell back up just enough to achieve the desired velocity.

### Step 3: Adjust rate of fire

The rate of fire (ROF) can be adjusted by turning the dial labeled "ROF" on the FCU. Turn the dial counterclockwise to increase the ROF and clockwise to decrease the ROF. The maximum ROF that can be obtained is determined by the selected operating pressure and dwell settings.

### Step 4: Set burst mode

**DISCONNECT THE GUN FROM YOUR AIR TANK BEFORE ATTEMPTING TO SET THE BURST MODE TO ENSURE THAT NO ROUNDS ARE ACCIDENTALLY FIRED.**

Hold down the gun's trigger while plugging in the battery to access the burst menu located in the fire control unit (FCU). The LED light on the FCU will flash to indicate that you have accessed the menu. Release the trigger.

Pull the trigger to set the number of rounds in each burst as outlined in the table below. Each time you pull the trigger, the LED will flash a corresponding number of times to indicate the burst setting that has been selected.

To exit the menu, wait 5 seconds after the last trigger pull. Now the gun is ready to fire. The setting you selected will be saved as your default setting.

| # of rounds in each burst         | # of trigger pulls/LED flashes |
|-----------------------------------|--------------------------------|
| 1                                 | 1                              |
| 2                                 | 2                              |
| 3                                 | 3                              |
| 5                                 | 4                              |
| 7                                 | 5                              |
| full auto                         | 6                              |
| 1 with 2 sec. delay between shots | 7                              |

Now you're ready to get out and play!

To change your settings, be aware of the following:

If you want to change your velocity, start at the beginning of the instructions. With the dwell turned all the way up, set the air pressure to achieve the desired velocity. Then, decrease the dwell until you find the precise point at which velocity begins to drop.

#### 4. SPARTAN TUNING

##### Step 1: Preparation

Before you start you will want a loaded magazine, a filled tank with your regulator set to your desired operating pressure, and your air line. For best results we recommend having a chronograph set up as well. If you are not using a chronograph see the extra tips below.

##### Step 2: Enter Programming Mode

With the air and magazine removed and air unplugged from the gun, hold down the gun trigger and plug in the battery while holding the trigger down. The gun will now fire every time the trigger is released, indicating that you are in programming mode.

##### Step 3: Load the Gun

Put the loaded magazine in the gun and plug in the air line. Put the gun's selector switch in semi-auto.

##### Step 4: Program the dwell

With the gun pointed through the chronograph, press and hold down the trigger. The gun will fire once every second reducing the dwell with each shot. Watch the chronograph readings and release the trigger when you see a drop of about 10 FPS in the velocity. Double tap the trigger to back up to the previous dwell setting. You may test fire by pressing and releasing the trigger to verify that setting is correct. Double tapping the trigger will increase the dwell further if necessary. If you hold the trigger down long enough to cycle through all the dwell settings the gun will shoot twice indicating that it has cycled back to the highest dwell setting.

##### Step 5: Program the ROF

With the dwell set properly, switch the selector to auto. Pressing and holding the trigger will produce a 3 round burst once every second. Hold the trigger down until the desired ROF is reached.

##### Step 6: Exit Programming

To exit programming mode simply unplug the battery and plug it back in. The gun will now operate normally with your desired settings.

##### Extra Tips

If you do not have a chronograph simply watch for the trajectory of the bb to drop indicating a loss of velocity indicating you have reached the maximum efficiency point.

To switch the gun from full auto to three round burst put the gun in semi auto in normal operating mode and hold down the trigger for 10 seconds. To reverse the operation simply press and hold the trigger for another 10 seconds.

To see how this all works, go to: <https://youtu.be/RE-vzapF-lc>

#### 5. MAINTENANCE

Regular maintenance on the inferno 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. Maintenance involves disassembling the cylinder unit by unscrewing the two halves. The two halves of the unit will then pull apart and the nozzle can be removed. Lightly lubricate all o-rings. Screw the two halves of the cylinder back together. Do not overtighten.

#### 6. TROUBLESHOOTING

| Symptom   | Possible Solutions   |
|---|--|
| Gun always fires in semi regardless of selector switch position                                     | -The selector plate is not engaging the selector switch and will need material added to permit proper operation. Please contact WA or a qualified technician for assistance.<br>-The burst setting is set to semi-semi         |
| Gun always fires in burst regardless of selector position   | -The selector plate is always engaging the selector switch and will need material removed to permit proper operation. Please contact WA or a qualified technician for assistance.  |
| In burst the gun fires one bb and then continues to cycle/blow air down the barrel but no bbs fire. | -ROF is set too high. Reduce the ROF to allow the action time to cycle and load bbs.   |
| Inconsistent/Low velocity   | -Dwell is set too low<br>-Damaged O-rings<br>-Air nozzle is too short and not providing adequate seal at the hop up bucking. Please contact WA or a qualified technician for assistance  |
| The valve cycles/releases burst of air but no bbs fire.   | -non-feeding magazine<br>-Air nozzle is too long. Please contact WA or a qualified technician for assistance.  |
| Nothing happens when trigger is pulled.   | -Dead battery.<br>-Trigger is not properly engaging the trigger switch. Open gearbox and manually press the trigger switch to see if the solenoid fires. If not, please contact WA or a qualified technician for assistance.   |
| Poor air efficiency   | -Dwell is set too high<br>-Damaged O-rings<br>-Air nozzle is too short and not sealing at the bucking. Please contact WA or a qualified technician for assistance.<br>-System air leak, check for audible signs of leak point. |

## **6. WARRANTY**

### Wolverine Airsoft 9 Month Limited Warranty

Your Wolverine Airsoft Product carries a 9 month limited warranty which covers all defects in manufacturing and material for the first 9 months from the date of purchase. Wolverine Airsoft will repair or replace any defective parts at their discretion.

This warranty is non-transferrable.

In order to be eligible for warranty service the unit must be presented with original bill of sale or receipt.

This warranty does not cover damage due to misuse/abuse of the system, improper installation, or operating the Wolverine Airsoft Product outside of the manufacturer's specified operating range.

Not covered by this warranty are:

- Battery
- Normal component wear and tear
- Acts of God

Warranty claims should be brought to the attention of Wolverine Airsoft, LLC in writing to [manager@wolverineairsoft.com](mailto:manager@wolverineairsoft.com).

It is the responsibility of the customer to ship the unit to Wolverine Airsoft at the customer's expense for warranty repair/replacement. Wolverine Airsoft utilizes USPS Priority Mail for return shipping to the customer which in most cases is 2-3 day (US domestic) delivery.

## **7. PRODUCT SPECS**

Pressure Operation Range: 40-140 PSI

Muzzle Energy: .5J-3J (Setup Dependant)

ROF: 5-35 RPS