

# WA HYDRA INSTRUCTIONS BOOKLET

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### 1. PACKAGE CONTENTS

- 1x HYDRA Cylinder \_\_\_\_
- 1x FCU \_\_\_\_
- 1x Tool kit \_\_\_\_
- 1x 7.4v mini lipo \_\_\_\_

#### V2 Package

- 1x V2 Trigger Board \_\_\_\_
- 1x Buffer Tube Adapter \_\_\_\_
- 14" Wiring Harness \_\_\_\_

#### V3 Package

- 1x V3 Trigger Board \_\_\_\_
- 12" Wiring Harness \_\_\_\_

#### M249 Package

- 1x M249 Wire Harness \_\_\_\_

#### TM M14/G&G M14/TM 90Package

- 1x Universal Wiring Kit \_\_\_\_
- 14" Wiring Harness \_\_\_\_

Tested by \_\_\_\_\_

Packed by \_\_\_\_\_

### 2. INSTALLATION

Due to the wide range of platforms which the HYDRA is designed for compatibility with, universal instructions for installation are not feasible in this booklet. For installation instructions specific to the platform of your choosing, please see our website:

[www.wolverineairsoft.com/installation-tips](http://www.wolverineairsoft.com/installation-tips)

**WE STRONGLY SUGGEST THAT ANY INSTALLATION USING THE UNIVERSAL WIRING KIT BE UNDERTAKEN ONLY BY TECHS WITH EXPERIENCE IN THIS TYPE OF INSTALLATION.**

### 3. TUNING

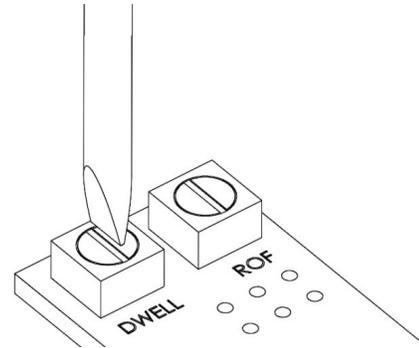
#### Step 1: Set the air pressure

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. MAINTENANCE

Regular maintenance on the HYDRA 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. O-rings should be lubricated with TechT GunSav. Re-assembly is the reverse of assembly. Tighten the two halves of the cylinder all the way down and then loosen until the two marks on the top of the cylinder are aligned

## 5. 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. -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 -Damaged O-rings -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 -Air nozzle is too long. Please contact WA or a qualified technician for assistance.
Nothing happens when trigger is pulled.	-Dead battery. -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 -Damaged O-rings -Air nozzle is too short and not sealing at the bucking. Please contact WA or a qualified technician for assistance. -System air leak, check for audible signs of leak point.

## 6. WARRANTY

Wolverine Airsoft 9 Month Limited Warranty

Your Wolverine SMP 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 SMP outside of the manufacturer's specified operating range.

Not covered by this warranty are:

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

## 7. PRODUCT SPECS

Pressure Operation Range: 40-140 PSI  
Muzzle Energy: .5J-3J (Setup Dependant)  
ROF: 5-35 RPS