

# MODULAR TRAINING WEAPON OWNERS MANUAL



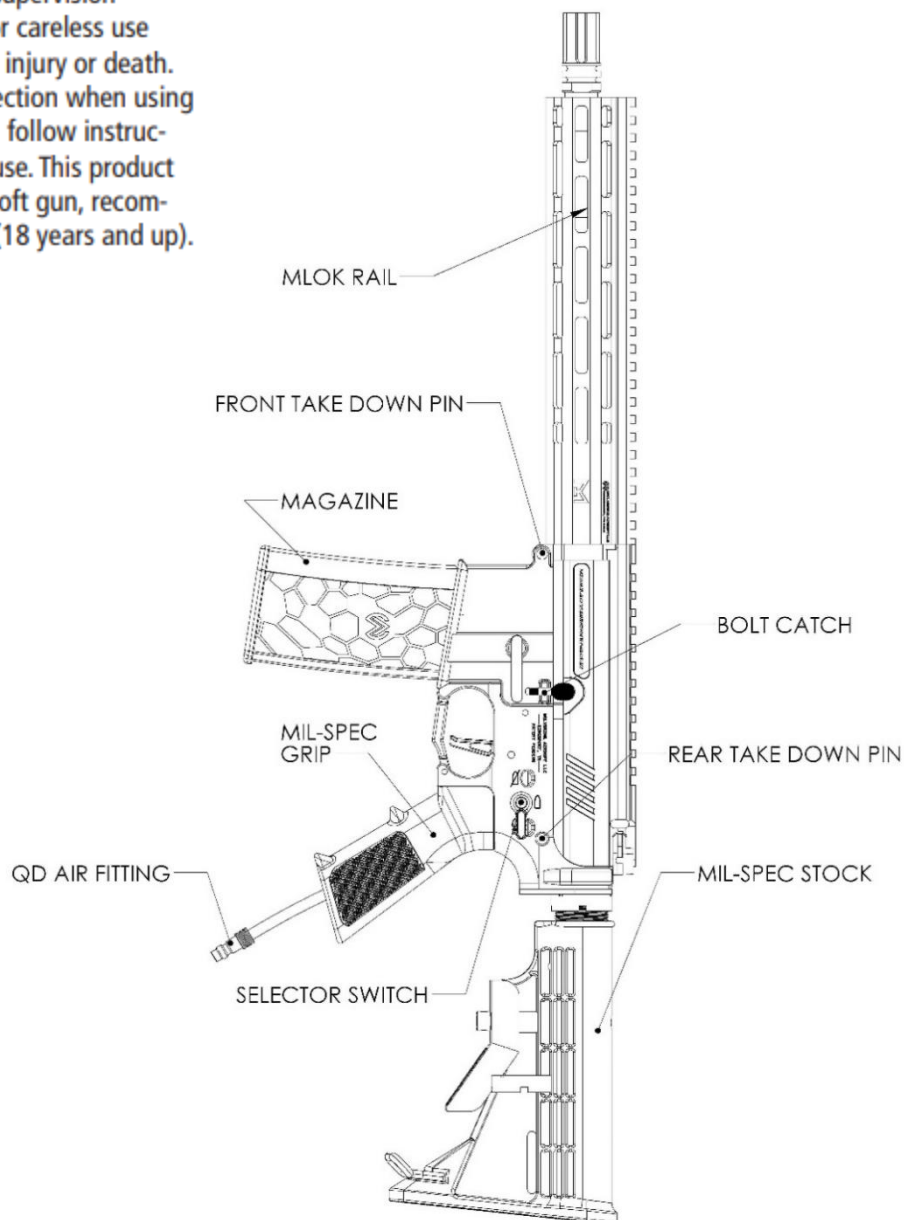
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## MTW Basic Features

**!** Not a toy. Adult supervision required. Misuse or careless use may cause serious injury or death. Always wear eye-protection when using this product. Read and follow instructions carefully before use. This product is a high-powered Airsoft gun, recommended for adult use (18 years and up).



Thank you for joining the Wolverine family! We hope you will enjoy your new Modular Training Weapon. Please read the Owners Manual carefully before use, and always obey your local laws.

## MTW Safety

### Warning / Avertissement / Advertencia



Always wear safety goggles when using your Airsoft gun.  
*Portez toujours des lunettes de protection lorsque vous utilisez votre réplique.*  
 Utilice siempre gafas protectoras cuando emplee su réplica.



Do not look directly into the gun barrel.  
*Ne regardez pas directement dans le canon de votre réplique.*  
 No mire directamente hacia el cañón de la réplica.



Never aim or shoot at people or animals. Always set the selector on "safe" position (except when you are ready to shoot a target).  
*Ne visiez et ne tirez jamais sur une personne ou un animal. Veuillez régler le sélecteur sur la position sécurité (excepté lorsque vous êtes prêt à tirer sur votre cible).*  
 Nunca apunte o dispare hacia personas o animales. Mantenga siempre el seguro en la posición "safe" hasta que esté listo para disparar al blanco.



Select a safe place for operating the Airsoft gun. Avoid shooting in public places.  
*Choisissez un endroit sûr pour utiliser votre réplique à billes, évitez les endroits publics.*  
 Escoja un lugar seguro para disparar la réplica. Evite lugares públicos.



Never shoot holding the Airsoft gun sideways as the BB pellets will curve (this is due to the Hop-up system).  
*Ne tenez jamais la réplique de travers. Les billes peuvent partir à droite ou gauche. (Cela est dû au système de Hop-up).*  
 Jamás agarrar y disparar la réplica horizontalmente, por el sistema Hop-up los proyectiles BB podrán cambiar de dirección en el aire.



Do not disassemble gun yourself. Always contact your local retailer.  
*Ne jamais démonter ou modifier votre réplique. Veuillez contacter votre revendeur d'airsoft pour toute question.*  
 No desarme la réplica usted mismo. Póngase siempre en contacto con el revendedor local.

Always treat the Airsoft gun as if it were loaded. Do not carry the Airsoft gun in open view. Always transport the Airsoft gun unloaded in a locked case. Do not openly brandish the Airsoft gun, as this may be perceived by others (including law enforcement units) as a threat, and cause prompt reaction. Always use precision 6mm BBs for this Airsoft gun. Never use any used or damaged BBs.

*Manipulez toujours votre réplique comme si elle était chargée. Ne pas porter cette réplique sur vous en public. Transportez toujours la réplique déchargée, dans une mallette verrouillée. Ne pas ouvertement brandir votre réplique, car cela peut être perçu par d'autres (y compris les unités de police) comme une menace, et provoquer des troubles à l'ordre public. Veuillez toujours utiliser des billes de précision avec votre réplique à billes 6 mm. N'utilisez jamais de billes déjà utilisées.*

Siempre trate la réplica como si estuviera cargada. No lleve la réplica en vista pública. Transporte la réplica descargada, en una funda cerrada. No blandir la réplica abiertamente, ya que esto puede ser percibido por otras personas (incluso unidades de la policía) como una amenaza, y provocar una reacción instantánea. Utilice siempre BBs 6 mm para su réplica. Nunca utilice BBs disparados o dañados.

Proper handling of your replica is critical to the safety and well being of yourself and those around you. When in doubt follow the Four Rules of Gun Safety:

1. Always treat every gun as if it was loaded
2. Never point a gun at something you are not willing to destroy
3. Keep your finger off the trigger until you have the weapon pointed at your target and are ready to shoot
4. Be aware of the backdrop of your target. (i.e. what is behind your target in case you miss or the projectile over-penetrates)

Every day our rights continue to be restricted because people are irresponsible and abuse them. Please be part of the solution, not the problem. Learn your local laws, how your equipment works, how to use it safely, and always exercise responsibility.

## Specs

### Carbine Length MTW

- Outer Barrel: 14.5"
- Rail: 13" MLOK™
- Inner barrel: 380mm
- Output Energy: Max 1.9J @140 PSI Measured with .2g bb's\*
- Pressure Range: 60-140 PSI
- Rate of Fire: Programable 15-35 RPS
- Fire Modes: Programable (safe/semi/full), (safe/semi/3rnd), (safe/semi/2rnd), (safe/semi/semi), (safe/2rnd/full)
- Recommended BB weight .28g or higher
- Battery: 7.4v minimum 250mah capacity
- Magazine capacity: 100 rounds

### SBR Length MTW

- Outer Barrel: 10.3"
- Rail: 10" MLOK™
- Inner barrel: 285mm
- Output Energy: Max 1.9J @140 PSI Measured with .2g bb's\*
- Pressure Range: 60-140 PSI
- Rate of Fire: Programable 15-35 RPS
- Fire Modes: Programable (safe/semi/full), (safe/semi/3rnd), (safe/semi/2rnd), (safe/semi/semi), (safe/2rnd/full)
- Recommended BB weight .28g or higher
- Battery: 7.4v minimum 250mah capacity
- Magazine capacity: 100 rounds

**\*Stock 14.5" MTW are shipped with a flow reducer installed in the air line to reduce maximum energy to safe levels and comply with various countries legal standards. Changing the air line or equipping our MTW with Wraith Aero or Wraith CO2 will change maximum energy output of the system. For more help with this contact [tech@wolverineairsoft.com](mailto:tech@wolverineairsoft.com).**

## Quick Start Guide

Getting started using your MTW is quick and easy. You will need the following items:

- MTW
- 7.4v Lipo battery which will fit inside the MTW buffer tube. Most in the 250-500 mah range will work.
- Charged HPA tank (Always carefully follow tank manufacturer's instructions when filling and using HPA tanks. They are very safe when used properly, but when misused or abused can cause serious injury or death)
- STORM™ Regulator or other airsoft regulator in the 60-140PSI range
- Air line with Foster spec fittings (standard in US airsoft market)

To get started first plug the battery into the leads connected to the control board. To do this push the rear take down pin (see Basic Features diagram) all the way to the right side of the gun. Note that new guns the take down pins tend to be stiff and you may find it easier to do this using a non-marring punch such as the back side of a plastic handled screwdriver to get the pin started. With use the pins break in and can usually be pushed out by hand. Plug battery into leads coming off the board and slide the battery and leads into the buffer tube. The braided line should lay flat along side the control board and on the left side the the air line. Close the receiver ensuring that wires are not pinched in the process. The wiring will run underneath the upper receiver rear take down pin lug and up into the buffer tube.

Mount your regulator to your tank and set pressure to 100 PSI (see regulator manufacturer's instructions). Connect tank air line to gun air line by pulling down on the collar on the Foster™ fitting and pushing the male fitting into the female. Your MTW comes from the factory tuned for 100PSI, which should have the gun shooting between 1.1 and 1.3J depending on bb weight etc. We recommend starting at 100 PSI and adjusting to meet your performance needs and comply with local laws and field rules.

Please read the full owners manual including relevant safety warnings and full programming instructions before use.

**WARNING:** Always disconnect the battery after use. Failure to do so will gradually drain the battery any may cause permanent damage to the battery due to over discharge condition.

**WARNING:** Do not exceed 140 PSI input pressure to the system. Doing so may lead to an unsafe condition and/or cause damage to the system.

**WARNING:** The use of high-energy emission transmitters like handheld radios or similar devices close to the gun may cause the onboard electronics to malfunction in an unsafe manner. Please test your high-energy devices to ensure best performance under safe conditions.

# System Tuning

**WARNING:** When programming the MTW will fire to indicate current settings, so be sure to always wear eye protection and be pointing the gun in a safe direction throughout the programming process.

## Programming Mode:

Programming mode is a special area of the program which accesses a series of start up menus. These menus allow you to set the dwell (the length of time the valve stays open for) as well as the Rate of Fire. Burst settings are programmed in the normal fire mode, not in programming mode.

To enter programming mode place the gun selector in semi auto and hold the trigger down while you plug the battery into the wire harness.

While in programming mode the gun will fire on the release of the trigger. Pulling and releasing the trigger will fire the gun with the current settings.

## Dwell Time Setting (Selector in Semi Auto):

For this, you need the MTW to be loaded with BB's and a chronograph. Press and hold the trigger and the MTW will begin to fire a single shot every 1.5 seconds, which you can measure the velocity from. Each subsequent shot reduces the length of time the valve is open and as a result the amount of air released. The optimal setting is the last setting before a drop in velocity is noticed. A double tap on the trigger will step back one place in the menu, increasing the dwell setting, in case you go a step to far. Choose the one you receive the best result from by releasing the trigger immediately after the particular shot has been performed. Dwell time is the time is used to optimize released air to fit perfectly to: barrel length, ROF, bore, air pressure, and BB type. The default setting will work fine on many setups, but feel free to experiment. Note that at the lower dwell settings the gun may seem to have no response at all. Continue holding the trigger until the gun fires twice indicating it has cycled back to the highest dwell setting and then proceed.

## Rate of Fire (Selector in Full Auto):

Press and hold the trigger and the MTW will begin to fire the ROF settings, by cycling through the different possibilities (15 – 35 RPS). Choose the one you want by releasing the trigger immediately after the setting has been fired. Note that at the max good performing ROF may vary a bit depending on air pressure, magazines etc. and that not all BB brands performs well at high ROF settings. Note: It cannot be expected that high ROF setting can be used all setups. Ex. using low pressure setting can lead irregular BB feed at high ROF setting.

## Saving Settings:

To exit programming mode and save your settings either unplug the battery, or wait for 1 minute for the menu to time out and the gun will return to normal fire mode.

## System Tuning (Continued)

### Empty Magazine Detection:

The MTW is equipped with Empty Magazine Detection (EMD) when used with Wolverine Airsoft MTW magazines. There are two different modes of EMD available in the programming. They are:

- Traditional: In this mode the gun will stop firing when the magazine is out of bbs. To re-start firing the user must remove the empty magazine and press the Bolt Catch (see Basic Features Diagram page 1)
- Simplified: In simplified mode the gun will stop firing when the magazine is out of bbs, but will automatically resume normal function as soon as the magazine is removed without the need of operating the bolt catch.

To change between Traditional and Simplified mode simply place the selector on semi and hold down the trigger and the bolt catch for 5 seconds. We recommend putting the gun in simplified mode when using standard AEG mags that do not have the empty mag detection functionality.

### Burst Settings:

To change burst setting options simply place the selector in semi position and hold down the trigger for 5 seconds. This will advance the burst setting to the next option in the menu the menu options are: (safe/semi/full), (safe/semi/3rnd), (safe/semi/2rnd), (safe/semi/semi), (safe/2rnd/full)

### Bolt Catch/Empty Mag Detection

When using Wolverine Airsoft MTW mags, your MTW will stop firing when the magazine is empty. There are two programmable options for the Empty Mag Detection (EMD) System. In the traditional mode the gun will not fire again until the magazine is removed and the bolt catch (see Basic Features) is pressed.

In simplified mode, the bolt catch is de-activated, but the empty mag detection still functions. In this mode the gun will be ready to fire again as soon as the empty mag is removed from the gun.

**WARNING:** The EMD is not intended as a replacement for the safety. After the EMD system has activated there still may be bbs in the hop up. Never assume that because there is no magazine in the gun that there is not a round in the chamber ready to fire. When clearing the gun always remove the magazine, press the bolt catch, and fire the gun in a safe direction to clear the chamber before putting the gun in 'safe'.

## Limited Lifetime Warranty

The MTW comes with a **limited lifetime warranty** against manufacturing defects. Wolverine Airsoft will repair or replace defective parts at their own discretion. To be eligible for warranty service the gun must be registered by the original purchaser within 30 days of original purchase. To obtain warranty service the product must be shipped to an approved Wolverine Airsoft warranty facility. Shipping charges to and from warranty center are not included in the warranty. This warranty is non-transferable and does not cover normal wear and tear, consumable parts such as hop up rubbers, magazines, etc., damage due to misuse or abuse, modifications to the system, or any other damage which is not a result of manufacturing defects.

## “Got Your Six” Policy

In addition to our formal warranty policy, Wolverine Airsoft is committed to enhancing the game for all of our users. Whether you are the original purchaser, a second hand owner, or the product has been damaged in some way not covered under warranty, we want to help get you back in the game as quickly and painlessly as possible. To that end you can always send your MTW in to Wolverine Airsoft and we will repair or replace any damaged parts. You will only be billed a small flat service fee and the cost of the parts which need to be replaced to get your MTW back up and running.