



## M203 Grenade Launcher Operator's Manual



### **LMT DEFENSE**

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## **WARNINGS, SAFETY CONSIDERATIONS, AND RULES FOR SAFE GUN HANDLING**

### **PLEASE READ PRIOR TO OPERATING YOUR LMT FIREARM**

To safely and properly handle this firearm, you must understand that injury or death to you or others may result from unsafe or careless use. Keep in mind that while the general rules of safe gun handling always apply, circumstances or conditions may exist that require additional precautions to be taken. Safe use of a firearm is your personal responsibility. Failure to follow these basic firearm safety rules may result in unintended discharge of the firearm and/or serious personal injury or death to you or others.

**LMT DEFENSE WILL NOT BE RESPONSIBLE FOR ANY PERSONAL INJURY, DEATH OR PROPERTY DAMAGE THAT RESULTS FROM: (1) THE CRIMINAL OR NEGLIGENT USE OF THIS FIREARM; (2) A DISREGARD OF THESE SAFETY INSTRUCTIONS AND WARNINGS; (3) IMPROPER OR CARELESS HANDLING OF THIS FIREARM; (4) THE USE OF A NON-STANDARD, DEFECTIVE, IMPROPER OR RELOADED AMMUNITION; AND (5) IMPROPER OR NEGLIGENT MODIFICATIONS OR REPAIRS TO THE FIREARM.**

If you feel uncertain about any operational aspects of your firearm, please contact LMT Defense customer service (309) 787-7151 before proceeding with its operation.

To safely and properly handle this grenade launcher, you must understand that injury or death to you or others may result from unsafe or careless use. It must be kept in mind that while the general rules of safe grenade launcher handling always apply, circumstances or conditions may exist that require additional precautions to be taken.

- Always keep the muzzle pointed in a safe direction
- Treat every grenade launcher as if it were loaded
- Load your grenade launcher only when ready to fire the weapon
- Keep the safety on until ready to fire
- Keep your finger off of and away from the trigger until you are going to shoot the weapon
- Move the safety from "Safe" to "Fire" only when ready to shoot
- Fire the weapon only when you are sure of your target and backstop
- Do not fire the weapon if unsure where the grenade will travel if the backstop is penetrated
- Never rely on a mechanical safety as a replacement or substitute for safe grenade launcher handling
- Always keep the barrel free of obstructions, dirt, mud, sand or other debris

If you suspect that the barrel of the grenade launcher may be obstructed, unload the grenade launcher, examine the bore and remove any obstruction and clean before reloading and firing the weapon. An obstructed barrel may burst, destroying the grenade launcher and seriously injuring the shooter and any bystanders.

When moving over, under or on any obstacle, always maintain control of the muzzle direction. Unload the grenade launcher if there is any chance that you might fall and or lose control of the muzzle direction.

To avoid an accidental discharge, always keep the chamber empty until ready to fire. Grenade launchers, alcohol or drugs don't mix. Shooting while your senses, judgment and or coordination are impaired may cause serious injury or death to the shooter or bystander.

THE GRENADE LAUNCHER IS UNLOADED ONLY WHEN THE BARREL IS OPEN AND THE CHAMBER IS EMPTY. TREAT EVERY GRENADE LAUNCHER AS IF IT IS LOADED.

DO NOT HAND A LOADED GRENADE LAUNCHER TO ANOTHER PERSON. UNLOAD IT FIRST TO PREVENT AN ACCIDENTAL DISCHARGE.

When handing or transferring a grenade launcher to another person or accepting a grenade launcher from another person, ALWAYS inspect the grenade launcher; open the action and inspect the chamber to verify that the grenade launcher is unloaded.

When removing a grenade launcher from a case or sleeve, always open the action and inspect the chamber to verify it is unloaded and not obstructed.

Always point the grenade launcher in a safe direction when loading and unloading the grenade launcher.

Always unload your grenade launcher before cleaning.

There is no way to predict which direction grenades will travel or ricochet when fired at flat ground surfaces or water. When present, always fire directly into a sufficient back-stop.

Always wear eye and ear protection when using a grenade launcher.

Discharging a grenade launcher in a building, home or apartment always causes property damage, injury and/or death. Centerfire grenade launcher grenades can penetrate several floors and/or walls within a structure that the grenade launcher was discharged in, and an armed grenade can travel to unintended destinations. This can and/or will cause property damage, injury and/or death.

#### CAUTION! RULES FOR SAFE GRENADE LAUNCHER HANDLING WHEN UTILIZING A SLING

- Use only slings that will adequately support the grenade launcher and safely control the muzzles direction
- If a sling is to be used, unload the grenade launcher and practice pulling it on and off, moving with the grenade launcher on foot, in a vehicle (if legal in your application) or using in various firing positions
- If a sling is to be used with a vest, packs, etc., unload the grenade launcher and practice pulling it on and off, moving with the grenade launcher on foot, in a vehicle (If legal in your application) or using in various firing positions
- Always unload a grenade launcher when installing, adjusting or removing a sling or similar item

#### YOUR SAFETY RESPONSIBILITIES - SAFETY IS YOUR NUMBER ONE RESPONSIBILITY!

SAFE GRENADE LAUNCHER HANDLING IS YOUR PERSONAL RESPONSIBILITY AT ALL TIMES. Grenade launchers are dangerous and can cause serious injury or death if they are misused. Safety must be the prime consideration of anyone who owns or handles grenade launchers. Accidents are the result of violating the rules of safe grenade launcher handling and common sense.

In the field, at the range, or anywhere, the first concern of every grenade launcher owner should be safety. Apply the following safety rules in every situation, with any kind of grenade launcher. If you feel uncertain about any operational aspects of your grenade launcher, please contact Lewis Machine & Tool Co. customer service (309) 787-7151 before proceeding with its operation.

**YOU MUST FOLLOW ALL OF THESE SAFETY RULES TO ENSURE THE SAFE USE OF YOUR GRENADE LAUNCHER. THE FAILURE TO FOLLOW THESE BASIC GRENADE LAUNCHER SAFETY RULES MAY RESULT IN AN UNINTENDED DISCHARGE WHICH COULD CAUSE SERIOUS PERSONAL INJURY OR DEATH TO YOU OR OTHERS.**

**ALWAYS KEEP YOUR GRENADE LAUNCHER POINTED IN A SAFE DIRECTION.** Never point a grenade launcher at anyone or anything you do not intend to destroy regardless of whether or not it is loaded. This is particularly important when loading, unloading, or field stripping the grenade launcher. **ALWAYS** control the direction of the grenade launcher.

**ALWAYS TREAT EVERY GRENADE LAUNCHER AS IF IT IS LOADED AND WILL FIRE IF THE TRIGGER IS PULLED.**

Do not take anyone's word that the grenade launcher is unloaded – always check for yourself. Never pass your grenade launcher to another person until the action is open and you visually check that it is unloaded. Keep your grenade launcher unloaded and safely stored when not in use.

**NEVER PLACE YOUR FINGER INSIDE THE TRIGGER GUARD OR ON THE TRIGGER UNLESS YOU INTEND TO FIRE THE WEAPON.** Ensure that other objects not touch the trigger.

**ALWAYS BE SURE OF YOUR TARGET AND WHAT IS BEYOND IT.** Always be sure of where the round will strike and shoot only where there is a safe back stop free of obstructions, water or other surfaces which can cause ricochets. Do not fire into the sky.

**NEVER CROSS OBSTACLES SUCH AS FENCES OR STREAMS WITH A LOADED GRENADE LAUNCHER.**

**GRENADE LAUNCHER SECURITY IS YOUR RESPONSIBILITY.** You must secure grenade launchers safely from children and unauthorized users. Your grenade launcher should always be kept unloaded and locked when not in use. A lock can be purchased from several sources for this purpose. Never assume that the use of this lock is sufficient to safely secure your grenade launcher. You must always evaluate your personal situation and employ the security system(s) that meets your needs and prevents children and unauthorized users from gaining access to your grenade launcher.

**APPROPRIATE USE FOR YOUR GRENADE LAUNCHER MEANS USING YOUR GRENADE LAUNCHER FOR LEGAL PURPOSES.**

It is your responsibility to ensure that you are in compliance with all applicable laws and regulations regarding the use of your grenade launcher.

**NEVER RELY ON MECHANICAL FEATURES ALONE.** Mechanical features may fail. Only your safe grenade launcher-handling habits will ensure the safe use of your grenade launcher. This is your responsibility.

**ALWAYS SAFELY STORE AND SECURE YOUR GRENADE LAUNCHER.** Safe and secure storage of your grenade launcher is one of your most important responsibilities. It is a full-time responsibility. You must always secure your grenade launcher and ammunition separately so that they are not accessible to children and/or other unauthorized persons.

**NEVER KEEP AMMUNITION IN THE SAME LOCATION AS THE GRENADE LAUNCHER.** Store each in a separate and secure place.

**ALWAYS WEAR EYE AND EAR PROTECTORS THAT ARE SPECIFIED FOR GRENADE LAUNCHER USE EVERY TIME YOU DISCHARGE YOUR GRENADE LAUNCHER.** Make sure others in the vicinity of where you will be shooting do so as well.

**NEVER USE ALCOHOL OR DRUGS BEFORE OR WHILE SHOOTING.** Do not use your grenade launcher if you are on any medication which impairs, even slightly, your mental or physical ability.

**ALWAYS HAVE ADEQUATE VENTILATION.** Discharging grenade launchers, cleaning grenade launchers, or handling ammunition in poorly ventilated areas may result in exposure to lead and other substances known to cause birth defects, reproductive harm, and other serious physical injury. Review the warnings and labels for all ammunition and cleaning products carefully. Wash hands thoroughly after exposure.

**BEFORE HANDLING ANY GRENADE LAUNCHER, UNDERSTAND ITS OPERATION.** Not all grenade launchers are the same. Familiarize yourself with the mechanical features of any grenade launcher you intend to use. If you feel uncertain about any operational aspects of your grenade launcher, please contact Lewis Machine & Tool Co. customer service at (309) 787-7151 before proceeding with its operation.

**NEVER ALLOW A GRENADE LAUNCHER TO BE USED BY INDIVIDUALS WHO DO NOT UNDERSTAND ITS SAFE OPERATION OR HAVE NOT READ THESE GRENADE LAUNCHER SAFETY RULES.**

**ALWAYS USE THE CORRECT AMMUNITION FOR YOUR PARTICULAR GRENADE LAUNCHER AS INDICATED BY THE MARKING ON THE GRENADE LAUNCHER.**

**NEVER USE NON-STANDARD AMMUNITION.**  
**BE SURE ALL ACCESSORIES ARE COMPATIBLE WITH THE GRENADE LAUNCHER AND THAT THE ACCESSORIES DO NOT INTERFERE WITH SAFE OPERATION.**

**NEVER DISASSEMBLE YOUR GRENADE LAUNCHER BEYOND THE FIELD STRIPPING PROCEDURE OUTLINED IN THIS MANUAL.** Improper disassembly or reassembly of your grenade launcher may be dangerous and can lead to serious injury or death.

**NEVER MANIPULATE, ADJUST OR CHANGE ANY OF THE INTERNAL COMPONENTS OF YOUR GRENADE LAUNCHER.** Improper manipulation of any internal component may affect the safety and reliability of your grenade launcher and may cause serious injury or death.

**NEVER ALLOW ANY ALTERATION OR REPLACEMENT OF PARTS IN YOUR LEWIS MACHINE & TOOL CO. GRENADE LAUNCHER UNLESS PERFORMED BY A QUALIFIED ARMORER USING GENUINE LEWIS MACHINE & TOOL CO. PARTS.** If you do otherwise, improper functioning of your grenade launcher may occur and serious injury or death may result.

SAFE USE OF A GRENADE LAUNCHER IS YOUR PERSONAL RESPONSIBILITY AND THE FAILURE TO FOLLOW ALL OF THESE BASIC SAFETY RULES MAY RESULT IN SEVERE PERSONAL INJURY OR DEATH TO YOU OR OTHERS. You are the most important safety device when it comes to the use of your grenade launcher.

LEWIS MACHINE & TOOL CO. WILL NOT BE RESPONSIBLE FOR ANY PERSONAL INJURY, DEATH OR PROPERTY DAMAGE THAT RESULTS FROM: (1) THE CRIMINAL OR NEGLIGENT USE OF THIS GRENADE LAUNCHER; (2) A DISREGARD OF THESE SAFETY INSTRUCTIONS AND WARNINGS; (3) IMPROPER OR CARELESS HANDLING OF THIS GRENADE LAUNCHER; (4) THE USE OF A NON-STANDARD, DEFECTIVE, IMPROPER OR RELOADED AMMUNITION; AND (5) IMPROPER OR NEGLIGENT MODIFICATIONS OR REPAIRS TO THE GRENADE LAUNCHER.

## MAINTENANCE BEFORE STORAGE

When storing, do not encase your grenade launcher in anything that will attract or hold moisture, for example, leather or heavy cloth. Also, do not store grenade launchers with a plug inserted in the barrel for this can be a contributing factor to moisture accumulation. If your grenade launcher is to be stored for an extended period, the bore, the chambers and internal working mechanism should be oiled with a high quality lubricating oil or preservative intended for grenade launchers. The external working mechanisms, lower and upper receiver, and barrel should be coated with anti-rust oil. Before using your grenade launcher again, be sure to clean it. If wear is noted, do not use the grenade launcher. Return it to Lewis Machine & Tool Co. for service or have it checked by a qualified Armorer.

## SAFE STORAGE & TRANSPORTATION

GRENADE LAUNCHERS ARE DANGEROUS WHEN USED AND STORED IMPROPERLY. THEY POSE A RISK OF SERIOUS OR FATAL INJURIES. GRENADE LAUNCHERS CAN BE ESPECIALLY DANGEROUS TO CHILDREN WHEN THEY ARE STORED IN AN IRRESPONSIBLE AND UNSAFE MANNER. FOR YOUR SAFETY AND THE SAFETY OF OTHERS, IT IS IMPERATIVE THAT YOU KEEP YOUR GRENADE LAUNCHER LOCKED AND UNLOADED IN A SECURE PLACE. THE AMMUNITION SHOULD BE STORED IN A SEPARATE, SECURE LOCATION WHEN IT IS NOT IN USE. SAFE AND SECURE STORAGE OF YOUR GRENADE LAUNCHER IS ONE OF THE MOST IMPORTANT RULES OF GRENADE LAUNCHER SAFETY. YOUR FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS INJURY OR DEATH TO YOU OR OTHERS.

ALWAYS SECURE YOUR GRENADE LAUNCHER IN A MANNER THAT WILL PREVENT UNAUTHORIZED ACCESS.

Whenever your grenade launcher is not in use, keep it unloaded and locked. Your safety and the safety of others require that you always secure and store your grenade launcher in a manner that will prevent unauthorized access. Never leave a grenade launcher unattended unless it is locked.

ALWAYS USE A LOCK TO SECURE YOUR GRENADE LAUNCHER. BY PURCHASING THIS GRENADE LAUNCHER YOU HAVE ACCEPTED THE RESPONSIBILITY OF SAFELY SECURING THE GRENADE LAUNCHER AT ALL TIMES AND PREVENTING ITS UNAUTHORIZED USE. Never assume that the use of a lock alone is sufficient to safely secure your grenade launcher. It is your personal responsibility to select and use whatever measures or practices that will enable you to be absolutely certain that your grenade launcher is secure at all times. A lock, when properly used, can be an effective tool in preventing unauthorized



ized access to your grenade launcher. There are alternative locks and safe storage containers available in the marketplace which may also be appropriate for your particular needs. Consult your local weapons dealer, hardware store, or local police department for guidance on the variety of other safe storage devices or practices which may be appropriate for your particular needs. Please read and follow the instructions provided with the lock and or storage device that you have purchased to secure your grenade launcher.

**NEVER LOCK A LOADED GRENADE LAUNCHER AND NEVER LOAD A LOCKED GRENADE LAUNCHER!!!**

**NEVER ASSUME THAT A "HIDING" PLACE IS A SECURE STORAGE METHOD.** Others may be aware of your storage location or come upon it by chance. It is your personal responsibility to use common sense when storing your grenade launcher and ammunition and to always make sure they are not accessible to children or other unauthorized persons.

**NEVER TRANSPORT A LOADED GRENADE LAUNCHER.** When transporting your grenade launcher, be sure it is unloaded and locked. Safe and secure transportation of your grenade launcher is your responsibility.

**ALWAYS FOLLOW THE LAW!** Many jurisdictions have laws that make it a crime to keep a grenade launcher unlocked and in an area accessible to children or others. You must be familiar with all local, state, and federal laws regarding the safe storage and transportation of your grenade launcher. Failure to know and follow the law may result in unauthorized access or use of your grenade launcher by another. Obey all laws relating to the storage and transportation of grenade launchers. Your local police department or weapons dealer can furnish you with available information on storing and/or transporting a grenade launcher safely and legally.

**YOUR GRENADE LAUNCHER IS YOUR RESPONSIBILITY.** You must prevent your grenade launcher from being stolen or from being used by untrained or unqualified individuals. Keep it locked, unloaded and secured when not in use.



## STATE-BY-STATE WARNINGS

Certain states require by law that their own specified warning notices in larger-than-normal type be conspicuously included by the manufacturer, distributor or retailer with firearms sold in that state. LMT Defense sells its products in compliance with applicable laws and regulations. Because our products may be sold in these states, we include the following:

### California:

#### WARNING/ADVERTENCIA:

"Children are attracted to and can operate firearms that can cause severe injuries or death. Prevent child access by always keeping guns locked away and unloaded when not in use. If you keep a loaded firearm where a child obtains and improperly uses it, you may be fined or sent to prison."

"Los niños se sienten atraídos y pueden operar armas de fuego que pueden causar lesiones graves o la muerte. Evite el acceso de los niños manteniendo siempre las armas cerradas y descargadas cuando no estén en uso. "Si guarda un arma cargada donde un niño la obtiene y la usa indebidamente, puede ser multado o enviado a prisión".

### Connecticut:

"UNLAWFUL STORAGE OF A LOADED FIREARM MAY RESULT IN IMPRISONMENT OR FINE."

### Florida:

"IT IS UNLAWFUL, AND PUNISHABLE BY IMPRISONMENT AND FINE, FOR ANY ADULT TO STORE OR LEAVE A FIREARM IN ANY PLACE WITHIN THE REACH OR EASY ACCESS OF A MINOR UNDER 18 YEARS OF AGE OR TO KNOWINGLY SELL OR OTHERWISE TRANSFER OWNERSHIP OR POSSESSION OF A FIREARM TO A MINOR OR A PERSON OF UNSOUND MIND."

### Maine:

"ENDANGERING THE WELFARE OF A CHILD IS A CRIME. IF YOU LEAVE A FIREARM AND AMMUNITION WITHIN EASY ACCESS OF A CHILD, YOU MAY BE SUBJECT TO FINE, IMPRISONMENT OR BOTH. KEEP FIREARMS AND AMMUNITION SEPARATE. KEEP FIREARMS AND AMMUNITION LOCKED UP. USE TRIGGER LOCKS."

### Maryland:

"WARNING: Children can operate firearms which may cause death or serious injury. It is a crime to store or leave a loaded firearm in any location where an individual knew or should have known that an unsupervised minor would gain access to the firearm. Store your firearm responsibly!"

## STATE-BY-STATE WARNINGS



### Massachusetts:

“WARNING FROM THE MASSACHUSETTS ATTORNEY GENERAL: This handgun is not equipped with a device that fully blocks use by unauthorized users. More than 200,000 firearms like this one are stolen from their owners every year in the United States. In addition, there are more than a thousand suicides each year by younger children and teenagers who get access to firearms. Hundreds more die from accidental discharge. It is likely that many more children sustain serious wounds, or inflict such wounds accidentally on others. In order to limit the chance of such misuse, it is imperative that you keep this weapon locked in a secure place and take other steps necessary to limit the possibility of theft or accident. Failure to take reasonable preventive steps may result in innocent lives being lost, and in some circumstances may result in your liability for these deaths.”

“IT IS UNLAWFUL TO STORE OR KEEP A FIREARM, RIFLE, SHOTGUN OR MACHINE GUN IN ANY PLACE UNLESS THAT WEAPON IS EQUIPPED WITH A TAMPER-RESISTANT SAFETY DEVICE OR IS STORED OR KEPT IN A SECURELY LOCKED CONTAINER.”



### New Jersey:

“IT IS A CRIMINAL OFFENSE TO LEAVE A LOADED FIREARM WITHIN EASY ACCESS OF A MINOR.”



### New York City:

“THE USE OF A LOCKING DEVICE OR SAFETY LOCK IS ONLY ONE ASPECT OF RESPONSIBLE FIREARM STORAGE. FOR INCREASED SAFETY, FIREARMS SHOULD BE STORED UNLOADED AND LOCKED IN A LOCATION THAT IS BOTH SEPARATE FROM THEIR AMMUNITION AND INACCESSIBLE TO CHILDREN AND UNAUTHORIZED PERSONS.”



### North Carolina:

“IT IS UNLAWFUL TO STORE OR LEAVE A FIREARM THAT CAN BE DISCHARGED IN A MANNER THAT A REASONABLE PERSON SHOULD KNOW IS ACCESSIBLE TO A MINOR.”



### Texas:

“IT IS UNLAWFUL TO STORE, TRANSPORT, OR ABANDON AN UNSECURED FIREARM IN A PLACE WHERE CHILDREN ARE LIKELY TO BE AND CAN OBTAIN ACCESS TO THE FIREARM.”



### Wisconsin:

“IF YOU LEAVE A LOADED FIREARM WITHIN THE REACH OR EASY ACCESS OF A CHILD YOU MAY BE FINED OR IMPRISONED OR BOTH IF THE CHILD IMPROPERLY DISCHARGES, POSSESSES, OR EXHIBITS THE FIREARM.”

Please check with your licensed retailer or state police for additional warnings which may be required by local law or regulation. Such regulations change constantly, and local authorities are in the best position to advise you on such legal matters.

# INTRODUCTION

## ABOUT LMT

LMT Defense has a long history of manufacturing small arms for defense agencies worldwide. Since 1982, LMT has had one or more U.S. Government contracts currently in production. This has included AR15's and AR10's, components of those systems, grenade launchers, machine gun components, bolt action rifles and various other small arms defense articles. LMT has the patent on the world's best and most trusted upper receiver in the defense industry with the Monolithic Rail Platform (MRP®). The lower is also unique in that it has complete ambidextrous controls while providing the most ergonomic user experience. The lower incorporates ambidextrous selector, magazine release, bolt catch and bolt release. LMT is one of the only manufacturers of an ambidextrous bolt catch and bolt release that does not penetrate the trigger guard area.

Our firearms are currently in service in the United States with Department of Defense, Federal Reserve Bank, Central Intelligence Agency, and many law enforcement agencies, United Kingdom, New Zealand, Jordan, Columbia, Denmark, Turkey, Philippines, Estonia and Panama as general service rifle/grenade launcher platforms.

We are a sought after partner for US Government National Laboratories, major defense contractors, US Army Research Center and USSOCOM to create the best small arms technology in the world to bring concepts to production.

LMT Defense is an industry leader and innovator in the small arms market. We have proven that our firearms are among the best in the world and consistently outperform competitors. It is because of our 40+ years of experience designing, engineering and manufacturing.

## ABOUT THIS MANUAL

This LMT Defense manual describes the M203 Grenade Launcher, it's unique characteristics, functionality, and maintenance.

LMT's product warranty requires all maintenance and repair to be in accordance with the procedures provided herein.

## MODELS & NOMENCLATURE

# LMT M203 GRENADE LAUNCHER



The LMT M203 Grenade Launcher is a single-shot 40mm grenade launcher designed to attach to the underside of a rifle, or to be used as a stand-alone system. LMT has been manufacturing grenade launchers and their parts for over 35 years and in that time, we've established ourselves as one of the world's most foremost suppliers of the M203. In 2010 we recognized the modern military transition to quad rail forends and designed one of the only grenade launchers in the world that can mount directly to one. We took that a step further in 2018 with the "Shorty 40", a launcher capable of stand-alone implementation or attachment to an SBR or even an AK-47. If there's one term that defines LMT it's modularity; our grenade launchers and their accessories are exceptionally versatile systems useful for lethal and non-lethal operations.

The LMT M203 Grenade Launcher is available in several different variations:

### **Underbarrel**

The LMT M203 can be mounted underneath a rifle, and comes in multiple lengths such as the Shorty 40, Classic 9", Underbarrel 9", 12" Classic, and 12" Rail.

### **Stand Alone**

Designed as a stand alone pistol grip weapon system it includes the LMT frame for a rail mounted M203 that can be shoulder fired using the included buttstock. This model comes in different lengths, such as the Shorty 40, 9" barrel and 12" barrel.

### **Pistol**

Similar to the stand alone variation, but with no stock. This compact design promotes quick movements and versatile operations. Variation comes in a Shorty 40, 9" and 12" styles.

# MODELS & NOMENCLATURE

## M203 GENERAL SPECS



**Rail Mounted Standalone M203**



**Underbarrel Standalone M203**

### M203 Grenade Launcher Specs

<b>Model</b>	Underbarrel M203
<b>Caliber</b>	40 MM
<b>Operation</b>	Single Shot / Breech loaded
<b>Sights</b>	Leaf or Quadrant
<b>Finish</b>	Mil-Spec Anodized Aluminum
<b>Barrel</b>	7", 9" or 12"
<b>Rifling</b>	1:48 / 1,219 MM RH Twist
<b>Breech Opening</b>	5.43" / 138 mm
<b>Effective Range</b>	375M (7"), 400M (9"), 425M (12")
<b>Fire Control</b>	Fire / Safe Switch
<b>Maintenance</b>	Field Strips with no special tools

# MODELS & NOMENCLATURE

## CONFIGURATIONS & SPECS

### LMP300



The most recognizable of our offerings, the LMP300 is the same grenade launcher employed for decades by militaries around the world. It attaches directly to an M4/ M16 series rifle via the barrel and slip ring. We've even designed a standalone platform for it.

### L2B



The ideal modern grenade launcher, the L2B provides the same force multiplier as the LMP300; however, it can be mounted on the underside of a 1913 picatinny rail or employed as a standalone launcher with our frame assemblies.

### L2X



The L2X, or as we call it "Shorty 40", is our rail mounted grenade launcher with a 7" barrel. This shortened system can be weap on mounted, even on SBRs, or used as a standalone weapon for explosives, flares, or as a door breaching mechanism.

### M203 Grenade Launcher Configuration Specs

MODEL	BARREL	LAUNCHER ONLY		PISTOL CONFIG.		STANDALONE CONFIGURATION		
		LENGTH	WEIGHT	LENGTH	WEIGHT	LENGTH COLLAPSED	LENGTH EXTENDED	WEIGHT
<b>L2X</b>	7"	10.5" / 267 MM	2.1 LBS / 0.95 KG	12.5" / 318MM	2.9 LBS / 1.3 KG	17.25" / 438 MM	22.75" / 578 MM	3.6 LBS / 1.65 KG
<b>L2B</b>	9"	12.5" / 318 MM	2.2 LBS / 1.0KG	14.5" / 368 MM	3.0 LBS / 1.35 KG	22.75" / 578 MM	26.05" / 662 MM	4.7 LBS / 2.13 KG
	12"	15.5" / 394 MM	2.2 LBS / 1.0 KG	17.5" / 445 MM	3.0 LBS / 1.35 KG	25.75" / 654 MM	29.05" / 738 MM	4.7 LBS / 2.13 KG
<b>LMP300</b>	9"	12.5" / 318 MM	2.5 LBS / 1.1 KG	14.5" / 368 MM	4.2 LBS / 1.9 KG	22.75" / 578 MM	26.05" / 662 MM	5.7 LBS / 2.6 KG
	12"	15.5" / 394 MM	2.5 LBS / 1.1KG	17.5" / 445 MM	4.2 LBS / 1.9 KG	25.75" / 654 MM	29.05" / 738 MM	5.7 LBS / 2.6 KG

## FIREARM CHARACTERISTICS

# M203 BARREL & UPPER COMPATIBILITY

### BARREL

The LMT M203 launcher is renowned for its extensive customizability, offering a variety of options for rails, stocks, and sights that can be tailored to suit specific mission requirements and user preferences. This flexibility allows operators to optimize the launcher's functionality and ergonomics for diverse operational scenarios.

### 12" BARREL

**M203 12-inch Barrel:** Offers improved ballistic performance and accuracy over longer distances, but may be slightly less maneuverable.



12" Classic M203



12" Rail Mounted M203

### 9" BARREL

**M203 9-inch Barrel:** More compact and maneuverable in tight spaces or urban environments, making it easier to handle in close quarters.



9" Classic M203



9" Rail Mounted M203

### SHORTY 40

**M203 7-inch, "Shorty 40" Barrel:** This shorter barrel length is designed for maximum maneuverability and compactness, making it ideal for close-quarters combat and urban operations where space is limited.



Shorty 40



## FIREARM CHARACTERISTICS

# M203 BARREL & UPPER COMPATIBILITY

### RECEIVER

The receiver serves as the foundation for attaching essential components like the barrel assembly and frame. This allows for modular customization to meet diverse mission requirements.

- Both the classic and rail mounted receiver types are compatible with all 9" and 12" LMT barrel models.
- The Shorty 40 receiver is non-compatible with the 9" and 12" barrel models, and the Shorty 40 barrel model is only compatible with its designated receiver.

### CLASSIC M203 RECEIVER



### RAIL MOUNTED M203 RECEIVER

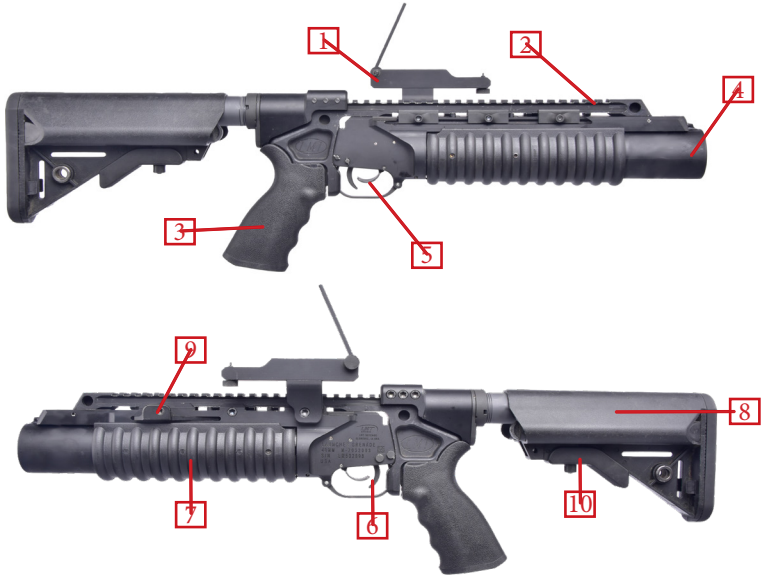


### SHORTY 40 RECEIVER



# FIREARM CHARACTERISTICS

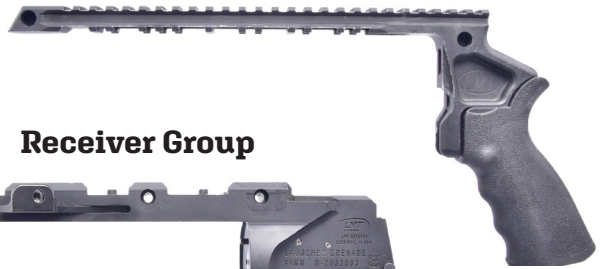
## Component and Control Details



1	LEAF SIGHT	6	TRIGGER
2	FRAME	7	HAND GRIP
3	PISTOL GRIP	8	BUTTSTOCK
4	BARREL	9	BARREL LATCH
5	SAFETY	10	BUTTSTOCK ADJUSTMENT LEVER

## MAJOR ASSEMBLY COMPONENTS

### Frame



### Receiver Group



### Barrel



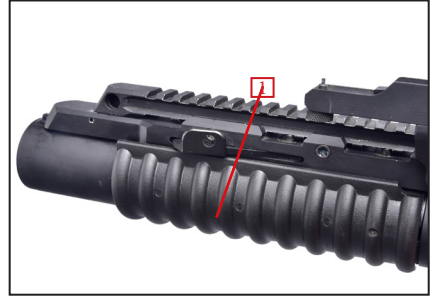
## FIREARM CHARACTERISTICS

# Component and Control Details

The following entries describe controls of the LMT firearm, their purpose, and how to operate them.

### BARREL LATCH

- The barrel latch **1** on the M203 grenade launcher securely locks the barrel assembly to the receiver.
- By pressing in the latch, the barrel unlocks, allowing the user to load, or unload the firearm.



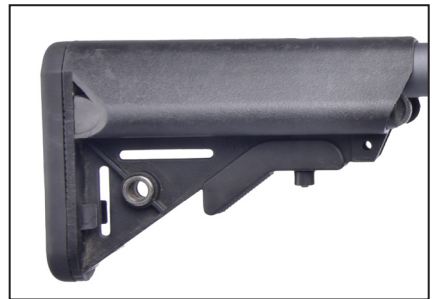
### LEAF SIGHT

- The leaf sight **2** for the M203 grenade launcher serves a critical role in enhancing the weapon's functionality and accuracy.
- Mounted securely to the frame, this sight features a vertical post that can be adjusted for elevation, allowing users to compensate for distance and achieve precise targeting.



### BUTTSTOCK

- Primarily designed to provide stability and support during firing, the buttstock helps absorb recoil forces, thereby improving accuracy and control for the operator.

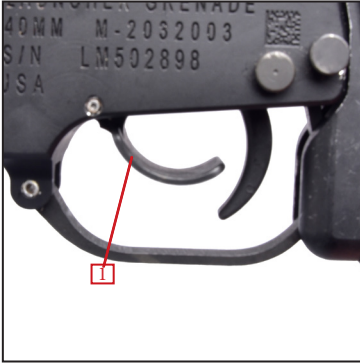


# FIREARM CHARACTERISTICS

## Component and Control Details

### SAFETY

The safety 1 is inside the trigger guard, just in front of the trigger. For the launcher to fire, the safety must be placed in the forward position. When the safety is rearward, the launcher is on SAFE. The safety is manually adjusted as shown here.



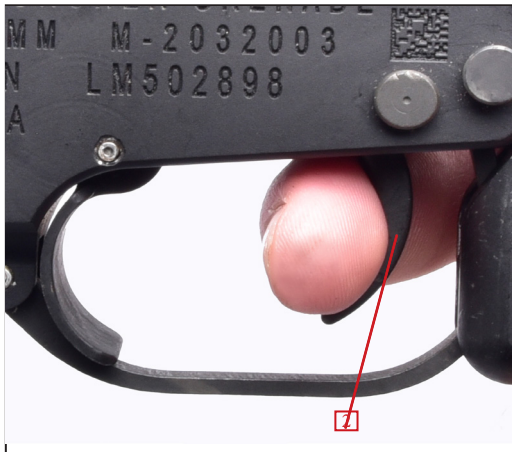
SAFE



FIRE

### TRIGGER

Each LMT trigger 2 is individually scaled and tested as part of a rigorous quality control and inspection process to ensure combat standards are maintained.



# OPERATION CHARACTERISTICS

This section describes the operational characteristics of LMT firearms to prepare the operator and ensure the firearm is safe and ready for use. These characteristics are consistent throughout all LMT M203 systems.

## CLEARING

This crucial procedure ensures the LMT M203 Grenade Launcher is completely unloaded, minimizing the risk of accidental discharge and preparing it for safe handling or subsequent operations.

## LOADING & UNLOADING

Detailed steps are provided to properly load ammunition into the M203 Grenade Launcher, ensuring readiness for firing. Similarly, the unloading process is outlined to safely remove any remaining rounds after use, adhering to strict safety protocols.

## MISFIRE / HANGFIRE

This section comprehensively covers the protocols and safety measures necessary to handle potential misfires or hangfires encountered during operation of the M203 Grenade Launcher.

## TROUBLESHOOTING

This section depicts common issues that may arise from operating the M203 Grenade Launcher, and provides necessary steps to correct malfunctions.

## DISASSEMBLY

Essential for routine maintenance and cleaning, the disassembly process of the M203 Grenade Launcher is outlined here.

## MAINTENANCE

Comprehensive guidelines are provided for cleaning and maintaining the M203 Grenade Launcher, essential for preserving its functionality and longevity. Proper maintenance practices outlined here contribute to sustained operational effectiveness and minimize the risk of mechanical failures.

## ASSEMBLY

Detailed instructions guide operators through the reassembly of the M203 Grenade Launcher following maintenance procedures.

## FUNCTIONS CHECK

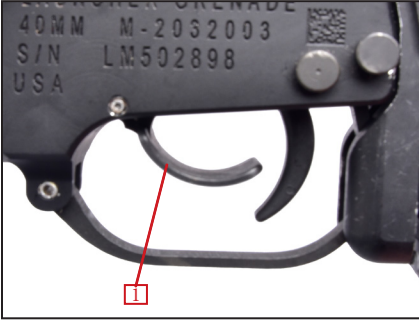
To ensure the firearm has been assembled correctly and all components are fully operational, perform a functions check.

## Operation Characteristics

# Clearing

This process describes the method by which to ensure the firearm is unloaded for safe handling or in preparation to be loaded. These precautionary steps should be taken every time the weapon is to be fired or handled. Not checking for blockages can result in a misfire or other issues which could lead to injury or death.

### STEP 1



- Ensure the firearm is pointed in a safe direction and place the safety selector on **SAFE** **1**. If the selector will not move to the safe position, the weapon is uncharged; proceed to Step 2.

### STEP 2



- Press in the barrel latch **2** to unlock the barrel.

### STEP 3



- After pressing the barrel latch, fully extend the barrel outwards.

### STEP 4



- Visually check the chamber **3** to ensure the firearm is completely unloaded and clear of debris and ammunition.
- Return the barrel to the locked position.
- The firearm is now clear.
- Place the firearm on safe.

## Operation Characteristics

# Loading

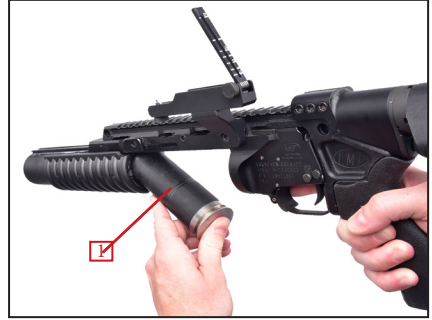
This section outlines the steps to load the firearm in preparation to fire. Proper usage of the ammunition is critical for safe use of this firearm.

### STEP 1



- Ensure the safety selector is in the **SAFE** position while loading.
- Press in the barrel latch to unlock the barrel.
- Fully extend the barrel outwards.

### STEP 2



- Point the firearm downwards, and fully insert the ammunition into the chamber **1**.

### STEP 3



- The back of the ammunition should sit flush with the entrance to the chamber **2**. If the round will not fully insert, remove the round and check for debris stuck in the chamber.

### STEP 4



- Return the barrel to the locked position.
- The firearm is now loaded and prepared to fire.



## Operation Characteristics

# Unloading

This section outlines how to correctly unload the firearm. These steps must be taken after each time the firearm is discharged.

### STEP 1



- Press in the barrel latch to unlock the barrel.
- Fully extend the barrel outwards.

### STEP 2



- During this movement any round remaining in the chamber should be ejected from the firearm **1**.
- The spring-loaded ejector pushes the live round or spent cartridge case out of the barrel assembly.

### STEP 3



- Inspect the chamber **2** to ensure the firearm is free of ammunition.
- Return the barrel to the locked position.

### STEP 4



- Ensure the safety selector is in the **SAFE** position.



## Operation Characteristics

# Hangfire / Misfire

- **HANGFIRE:** A delay in the functioning of the rounds propelling charge explosive train at the time of firing. The length of this delay is unpredictable, but in most cases, it ranges between a split second and 30 seconds. Such a delay in the functioning of the round could result from the presence of excess oil or grease, grit, sand, frost, or ice.
- **MISFIRE:** A complete failure of the weapon to fire. A misfire in itself is not dangerous, but because it cannot be immediately distinguished from a hangfire, it must be considered to be a hangfire until proven otherwise.

### STEP 1



- Keeping the weapon aimed on target, shout, **“MISFIRE!”**
- Clear unnecessary personnel from the vicinity.
- Wait 30 seconds from the time of failure before opening the breach for unloading procedures.

### STEP 2



- Pressing the barrel latch, extend the barrel while simultaneously catching the ejected round **1**, or reducing its free-fall to the ground.

### STEP 3



- Determine whether the round **1** or the firing mechanism is defective. Examine the primer to see if it has been dented. If not, the firing mechanism is at fault. Turn in the firearm for repair.

### STEP 4



- Return the barrel to the locked position.
- Ensure the safety selector is in the **SAFE** position **2**.

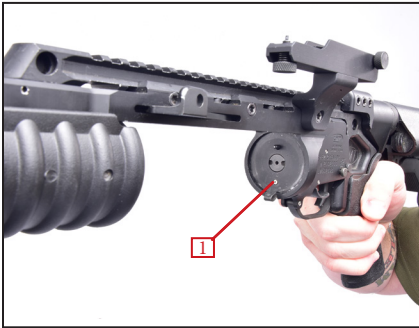
## Operation Characteristics **Troubleshooting**

Below lists some common malfunctions you may find when you operate or maintain the M203 or its components. Perform the test/inspections and corrective actions in the order they are listed.

### **Breach Won't Close**

If the breach will not close, the firing pin must be reset.

#### **STEP 1**



- Fully extend the barrel to expose the breech face **1**.

#### **STEP 2**



- Insert a 3/32-inch roll pin punch through the firing pin hole **2**.
- Push the firing pin into the receiver assembly until it clicks.

### **Failure to Fire**

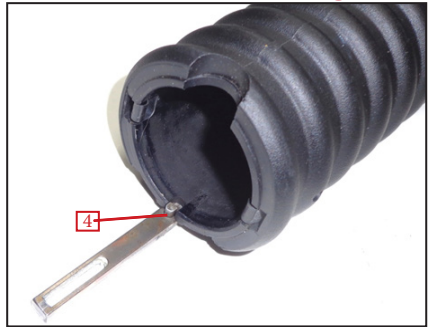
Weapon will not fire. Proceed through the following steps to correct the problem.

#### **STEP 1**



- Check for dirt in the firing pin recess **3**.
- If dirty, clean firing pin recess with CLP or RBC (Rifle Bore Cleaner).

#### **STEP 2**



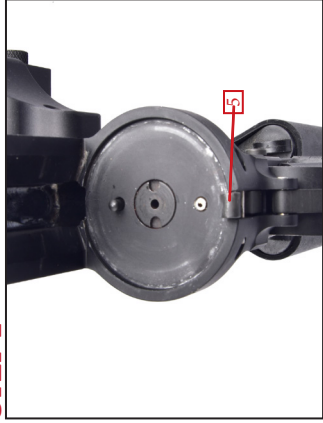
- Check for dirt in the cartridge locator slot **4**.
- If dirty, clean cartridge locator slot with CLP.

## Operation Characteristics Troubleshooting

### Failure to Extract

If the spent cartridge case fails to extract, check the following steps.

#### **STEP 1**



- Check for a broken or missing extractor **5**, spring pin, or spring.

#### **STEP 2**

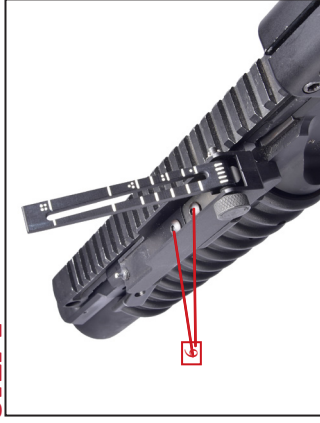


- Check for residue or build-up in the barrel and chamber area.
- To remove residue or build-up, clean and lubricate inside the barrel (see page 28).

### Leaf Sight Failure

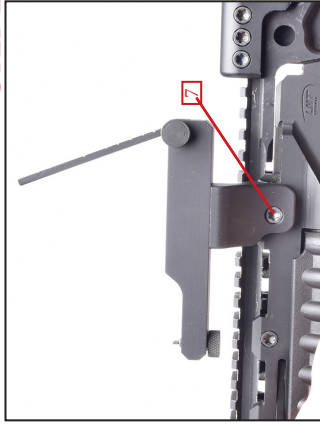
If the leaf sight assembly fails to maintain its position, follow these steps.

#### **STEP 1**



- Ensure both base plate screws are securely tight **6**.

#### **STEP 2**



- Check the leaf sight mount screw **7** and ensure it is secured tightly.

## Operation Characteristics

# Disassembly

Before proceeding with disassembly, ensure the firearm is completely cleared and placed on **SAFE**.

### Leaf Sight Removal

#### STEP 1



- Using a Torx T-27 wrench, remove the leaf sight screw **1** holding the leaf sight in place.

#### STEP 2



- Remove the leaf sight.

### Barrel Removal

#### STEP 1



- Using a flathead screwdriver or similar tool, pull up on the barrel stop **2**.
- This will unlock the barrel and allow it to be removed.

#### STEP 2



- Slide the barrel off the end of the receiver.

# Operation Characteristics

## Disassembly

### Buttstock Removal

#### STEP 1



- Remove the three buttstock screws **3** attaching the buttstock to the frame.

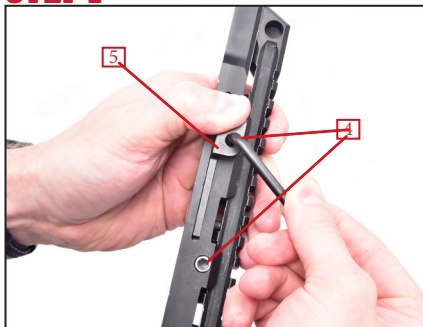
#### STEP 2



- Pull buttstock off the back of the frame.

### Frame Removal

#### STEP 1



- Remove the remaining receiver screws **4**.
- As the out-most screw resides underneath the barrel latch **5**, the latch must be depressed as shown here in order to use the wrench.

#### STEP 2



- Pull the frame off the receiver.



## Operation Characteristics

# Underbarrel Disassembly

The previous section depicted how to disassemble the rail mounted M203. Here, we will explain how to disassemble the underbarrel variant of the M203.

### STEP 1



- Before disassembling the underbarrel M203, ensure you have cleared the weapon of any ammunition and it is on SAFE.
- Begin by turning the locking plunger to the unlocked position. Notice the plunger will be pointing towards the locked position.

### STEP 2



- While unlocked and pressing the plunger down, lift up on the outer bracket to release the quick detach.

### STEP 3



- Once released, separate the receiver from the frame.

### STEP 4



- To release the barrel from the receiver, press down with your thumb on the barrel release lever.
- After this step, you may remove the buttstock, following the same steps as the rail mounted variant.
- Once completed, the weapon is disassembled.



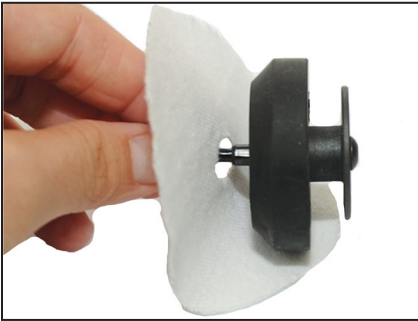
## Operation Characteristics **Maintenance**

In order for the M203 to function properly it is imperative that you clean and maintain the firearm. Below are the steps users should take to maintain proper functionality.

### **Barrel Cleaning**

Utilizing an OTIS 40mm cleaning kit (or equivalent) and CLP, clean the bore of the M203.

#### **STEP 1**



- Assemble the rubber patch saver on the arbor.
- Insert the special patch with the cable going through the hole in the center of the patch.

#### **STEP 2**



- Pull the patch down over the rubber patch saver.

#### **STEP 3**



- Apply CLP to the outer edges of the patch around the patch saver.

## Operation Characteristics **Maintenance**

### **STEP 4**



- Pull the CLP soaked patch through Breech-to-Muzzle®.

### **STEP 5**



- Remove the rubber patch saver from the arbor and replace with the two disc brushes.

### **STEP 6**



- Ensure the fit snug on the arbor.

### **STEP 7**

- Pull the nylon disks through the barrel Breech-to-Muzzle®.

### **STEP 8**

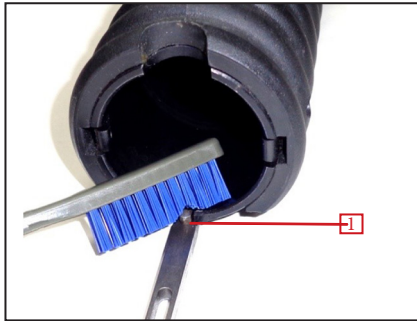
- Repeat steps 1, 2 and 4 until the patch come out of the bore clean.



## Operation Characteristics **Maintenance**

### **Locator Slot Cleaning**

Clean the locator slot with a brush and CLP.



- Using CLP and a brush, clean the locator slot **1** as shown here.

### **Receiver Cleaning**

Use a toothbrush and CLP to clean the surfaces of the receiver.



- Pay particular attention when cleaning the breech insert **3** and firing pin hole **2**.
- Do not put CLP in the firing pin hole when coating the face of the receiver, as this can cause a residue buildup.

## Operation Characteristics

# Assembly

The assembly process is essentially just the disassembly process in reverse, however there are some things to keep in mind while reassembling. The full assembly process is depicted below.

### Frame Assembly

Join together the receiver and frame using the screws and clamps.

#### STEP 1



- Line up the receiver with the frame as shown, and bring the two components together.

#### STEP 2



- The frame should be precisely aligned with the receiver.
- Hold these components together while inserting the screws.

#### STEP 3



- Fully insert the middle screw as depicted here.

#### STEP 4

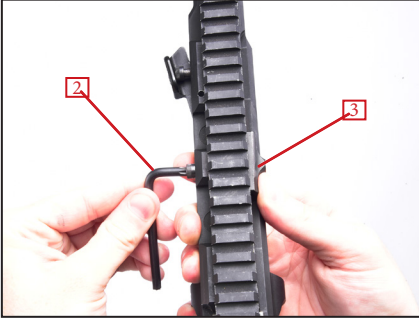


- Holding the screw in its position, place the receiver clamp **I** onto the screw as shown here.
- Make sure that all clamps are in the right orientation when

# Operation Characteristics Assembly

## Frame Assembly

### STEP 5



- Using a Torx T-27 wrench **2**, tighten the screw.
- Check the receiver clamp **3** and make sure it is firmly attached.

### STEP 6



- For the front screw, the barrel latch **4** must be pressed in while tightening the screw.

## Leaf Sight Addition

### STEP 1



- Using the designated leaf sight screw, attach the leaf sight.
- Note: The leaf sight screw is the longest of the three receiver screws.

### STEP 2



- The leaf sight should be fully attached with the screw firmly tightened.
- All three screws and clamps should now be fully installed, and the frame and receiver now joined.

# Operation Characteristics

## Assembly

### Barrel Placement

#### STEP 1



- Push up on the barrel stop **1**, unlocking the frame rail.
- Place the barrel into the receiver rail as shown here.

#### STEP 2



- Pull the barrel fully onto the rail system and lock it in place.

### Buttstock Installation

#### STEP 1



- Slide the buttstock onto the back of the frame rail.

#### STEP 2



- Insert all three buttstock screws and tighten.
- The M203 is now completely assembled.

## Operation Characteristics

# Underbarrel Assembly

The previous section depicted how to reassemble the rail mounted M203. Here, we will explain how to reassemble the underbarrel variant of the M203.

### STEP 1



- Insert the barrel into the receiver. Press the barrel release lever down with your thumb.
- Slide the barrel down and lock it into place.

### STEP 2



- Join the receiver to the frame. Pay close attention to the trigger guard. There is an internal pin inside the frame where the guard must rest. If not placed correctly, this can prevent the trigger from functioning properly.

### STEP 3



- Once the receiver and frame are correctly in place, lock them together by latching the quick detach. Notice on the right side, there is a lip where the bracket will hook onto.

### STEP 4



- Press the outer bracket down with your thumb. Afterwards, you must press the plunger down so the bracket fully seats. Turn the plunger to the lock position and the M203 is assembled.

## Operation Characteristics

# Functions Check

Perform a functions check to ensure that the grenade launcher has been assembled correctly. Before performing a functions check, first clear the firearm. Conduct the functions check in this order:

### STEP 1



- Remember to clear the firearm before performing a functions check.
- Reset the firing pin.
- A firing pin reset is completed by charging the weapon: unlock the barrel, slide it all the way forward and pull it back, locking it in place.

### STEP 2



- If the firearm is in the safe position, switch it to fire.
- Squeeze the trigger and hold. The firing pin should fall with a metallic click sound.

### STEP 3



- While still holding the trigger to the rear, charge the launcher. Slowly release the trigger. Then once again squeeze the trigger. The firing pin should fall.

### STEP 4



- Charge the weapon. Put the weapon on safe. Attempt to fire the grenade launcher. The firing pin should not fall.





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