



MIKE-15 GEN 2 QUICK START GUIDE

**READ THESE INSTRUCTIONS AND
WARNINGS IN THIS GUIDE CAREFULLY
BEFORE USING THIS PRODUCT**

**FAILURE TO FOLLOW THESE GUIDELINES MAY
RESULT IN DAMAGE TO YOUR PRODUCT AND
VOID THE LIFETIME WARRANTY**

© 2021 Foxtrot Mike Products, Inc.

WWW.FM-PRODUCTS.COM

REV C 9/23

TABLE OF CONTENTS

	Page
Warnings	2
A Message from the CEO	3
Warranty Statement	4
The Rules of Safe Firearm Handling	5
Ammunition Selection	6
Magazine Selection	8
Operational Controls	9
- Safety	9
- Fire Control (Trigger System)	10
- Charging Handle	10
- Magazine Catch	11
- Bolt Stop	11
- Ejection Port Cover	12
Loading & Reloading	13
Clearing Malfunctions	15
Field Stripping	16
Break-In & Maintenance	18
Troubleshooting Tips	20
Accessorizing your MIKE-15 Gen 2	21
- Proprietary Parts	21
- 4-Position Charging Handle	21
- Mk2 Handguard	22
- Sights & Optics	22
- Muzzle Devices	23
- Stock Adapter	23
- Fire Control (Trigger System)	23
- Bolt Carrier Assembly	24
- Lower Receiver	25
A Note for Competitive Shooters	26
State-By-State Warnings	27

IF YOU ARE HAVING A PERSISTENT MALFUNCTION WITH YOUR FM-15 GEN 2 PLEASE GO TO “TROUBLESHOOTING TIPS” ON PAGE 20 AND FOLLOW THOSE STEPS.

WARNINGS

WARNING: IF THIS FIREARM IS IMPROPERLY HANDLED, UNINTENTIONAL DISCHARGE COULD RESULT AND COULD CAUSE INJURY, DEATH, AND/OR DAMAGE TO PROPERTY.

WARNING: BEFORE USING THIS FIREARM, READ, UNDERSTAND AND FOLLOW THESE INSTRUCTIONS. THIS FIREARM SHOULD BE CONSIDERED LOADED AND READY TO FIRE UNTIL YOU REMOVE THE MAGAZINE AND VERIFY THAT THE CHAMBER IS UNLOADED.

If there is anything you do not understand, get assistance from a qualified gunsmith in the safe handling and maintenance of firearms.

This instruction manual should always accompany this firearm and be transferred with it upon change of ownership, or when the firearm is loaned or presented to another person.

As a firearm owner, it is your job to know the local, state and federal laws regarding firearms ownership. The warnings listed in this manual are not inclusive of all states and are subject to change without notice. Please check with your local authorities for current laws and regulations in your locality.

WARNING: LEAD EXPOSURE

Discharging firearms in a poorly ventilated area, or handling or cleaning firearms and ammunition can result in an exposure to lead and other harmful substances known in the State of California to cause birth defects, reproductive harm, and other serious physical injury.

A MESSAGE FROM THE CEO

Dear Customer,

I want to personally thank you for purchasing one of our new MIKE-15 Gen 2 firearms.

When I started FM Products the motto we chose was:

“Cutting edge is all we do.”

Based on consumer support and feedback, we currently produce one of the most reliable and feature rich AR-pattern pistol caliber carbines on the market. We could not have accomplished that without the support of our customers.

For the last couple years we have been developing the “Gen 2” rifle caliber carbine. Thought was put into every aspect of this firearm, and we chose to do things differently in order to offer the best possible product for our customers.

We look forward to learning ways we can continue to improve our products. Our philosophy is, we will always try to improve our products based on our consumers feedback.

Thank you for choosing to join us on this journey. We hope our attention to detail shows you how much we care about you as a customer.

Paul Noonan
CEO, Foxtrot Mike Products

WARRANTY STATEMENT

Foxtrot Mike Products is known for our lifetime warranty on all our products.

In the event that our customers have any of our products fail, FM Products will replace those parts at no cost to you.

Our lifetime warranty does not cover shipping the warranty items to us, however we will pay for return shipping the warranty items back to you.

Our lifetime warranty does not cover failures caused by ammunition, other manufacturers components, or negligence on the part of the shooter.

Please contact us at info@FM-Products.com for instructions on any warranty returns. FM Products answers customer service emails 7 days a week.

We appreciate you as a customer, and want you to be satisfied with your purchase.

FM Products strives to provide you with a quality firearm that will last a lifetime.

DISCLAIMER

Foxtrot Mike Products expressly disclaims liability for incidental or consequential damages.

You, as the owner and operator of this firearm, are responsible for its safe and lawful use.

THE RULES OF SAFE FIREARMS HANDLING

1. Always wear eye and ear protection when shooting.
2. Learn the mechanics and handling characteristics of the firearm before use.
3. Always keep your firearm's muzzle pointed in a safe direction.
4. Keep your finger off the trigger until you are ready and intending to shoot.
5. Be sure of your target and what is beyond it.
6. Use only quality ammunition of the correct caliber in your firearm.
7. Be sure that your firearm and ammunition are in good working condition.
8. Your firearm should be unloaded and properly stored when not in use.

AMMUNITION SELECTION

ALWAYS use high-quality, factory loaded ammunition.

Reloading is a science and improperly loaded ammunition can be extremely dangerous. FM Products specifically disclaims responsibility for any damage or injury whatsoever occurring in connection with, or as a result of, the use of faulty, nonstandard, “remanufactured” handloaded (reloaded) ammunition, or cartridges other than those for which the firearm was originally chambered.**

FM Products strongly recommends using brass cased ammunition, however our firearms are designed to run steel cased ammunition.

To reiterate, running steel cased ammunition will NOT void your warranty, however there are 2 ammunition related malfunctions that can appear when running steel cased ammunition that FM Products cannot prevent or warranty.

1) Steel cased ammunition generally uses harder primers, which can occasionally cause a malfunction when the firing pin strikes the primers sufficiently, and the round does not ignite. Clear the round from the weapon and discard. DO NOT attempt to re-chamber this round. The round will show a pronounced impact from the firing pin hitting the primer, but the round did not fire. This is an ammo related malfunction.

2) Steel cased ammunition is more likely to stick in a hot chamber than brass ammo. This can cause a “failure to extract”. We recommend removing the bolt and using a cleaning rod to tap out this stuck casing. Check your extractor for any damage before continuing. This is an ammo related malfunction.

AMMUNITION SELECTION, CONT'D

USING SILENCERS: FM Products supports the use of silencers; we recommend only using subsonic ammunition (loads less than 1100 FPS) when shooting suppressed to reduce back pressure and bolt carrier velocity. We do not recommend using subsonic ammunition when you are not running a suppressor.

ALWAYS function test any new ammunition before using in competition, for personal defense, or buying in bulk for leisure shooting.

ALWAYS use ammunition that complies with the industry performance standards established by the Sporting Arms and Ammunition Manufacturers' Institute, Inc. of the United States (SAAMI) or ammunition manufactured to military specifications.

NEVER use cartridges that are dirty, wet, corroded, bent, or damaged.

NEVER oil cartridges.

NEVER spray aerosol-type lubricants, preservatives, or cleaners directly onto cartridges or where excess spray may flow into contact with cartridges.

** In the event a customer uses ammunition that is not recommended with our products, FM Products may choose to charge customers to repair or replace any damaged parts that caused damage to the firearm or parts.

MAGAZINE SELECTION

ALWAYS use high quality magazines like Magpul PMAGs or aluminum USGI magazines.

Many feeding issues are the result of inferior, imported magazines.

Use a dry brush to clean your magazines after use in dusty or dirty environments.

NEVER use lubricants inside of magazines.

FM Products does **NOT** recommend, and will not be able to troubleshoot, or warranty, any problems resulting from:

- Non-factory capacity magazines (i.e. drum magazines, 100rd magazines, etc.).
- Homemade or aftermarket magazine extensions, couplers.
- Magazines made from clear plastic.***

*** Magazines made from clear plastic lack the feed lip durability of traditional glass filled polymers. The clear plastic also lacks the slickness of glass filled polymers which can cause feeding issues.

Magazines are wear items that need to be replaced over time.

Number your magazines for troubleshooting to determine if a particular magazine is a consistent source of problems.

Older magazines may benefit from replacing the magazine spring for reliable operation.

Compare the angle and height of the top round in old magazines to new magazines to see if the feed lips have worn out.

MAGAZINE SELECTION, CONT'D

FM Products will ALWAYS warranty issues when high quality Magpul PMAGs or aluminum USGI magazines are used.

A best practice, told to us by our military & law enforcement consultants, is to download high capacity magazines by 2 rounds, to help reliability in dry & dirty, “extreme” conditions (example: 28 rounds in a Magpul 30 round PMAG).

OPERATIONAL CONTROLS

Nothing can ever take the place of proper instruction and training.

FM Products **STRONGLY** recommends you get training on how to safely operate and shoot your firearm from a qualified instructor.

The operational controls of your new firearm are covered in much greater detail in our how-to videos, which can be found on our website www.FM-Products.com

SAFETY

The MIKE-15 Gen 2 is equipped with an ambidextrous, manual thumb operated safety that is located at the rear of the lower receiver.

When the safety is in the “safe” position, the trigger is blocked and the weapon will not fire.

When the safety is moved to the “fire” position, by flipping the safety lever down and forward, the trigger can be pulled and the weapon will fire.

The safety can only be engaged when the internal hammer is in the cocked position. If the safety lever will not rotate to the “safe” position then pull back on the charging handle to cock the internal hammer.

FIRE CONTROL (TRIGGER SYSTEM)

The MIKE-15 Gen 2 is equipped with an AR pattern fire control, consisting of an external trigger & internal hammer.

The trigger is operated by pulling on it using the index finger, causing the internal hammer to drop, firing the weapon. The trigger can only be operated when the safety selector is in the “fire” position.

The hammer is automatically cocked by the bolt carrier assembly as the weapon cycles, or when the bolt is manually retracted by the charging handle. The hammer must be cocked for the safety selector to move into the “safe” position.

CHARGING HANDLE

The MIKE-15 Gen 2 is equipped with a non-reciprocating, forward charging handle located inside the front handguard.

This is used to retract the bolt carrier assembly during loading, unloading, and malfunction clearing operations.

NEVER push the charging handle forward. Always release the charging handle and allow the internal springs to move it forward.

The charging handle can be put in four different positions, left or right, up or down. Refer to “Accessorizing Your MIKE-15 Gen 2: 4-Position Charging Handle” for details on how to change the position.

OPERATIONAL CONTROLS, CONT'D

MAGAZINE CATCH

The MIKE-15 Gen 2 is equipped with a magazine catch that locks the magazine into place.

To lock a magazine into place, simply insert a magazine into the magazine well of the lower receiver.

To release a magazine, depress the magazine release button on the right side of the lower receiver.

BOLT STOP

The MIKE-15 Gen 2 is equipped with a bolt stop that locks the bolt to the rear.

The bolt stop can be engaged in two ways:

1. By firing the last shot in the magazine, causing the magazine follower to engage the bolt stop.
2. By manually retracting the bolt using the charging handle, pushing the bottom of the bolt stop, and then slowly releasing the charging handle until the bolt has engaged the bolt stop. If your bolt stop is equipped with a Magpul BAD Lever, then you can push up on the lever after retracting the bolt with the charging handle.

The bolt stop can be released, allowing the bolt to close, in two ways:

1. By depressing the serrated pad at the top of the bolt release. If your bolt stop is equipped with a Magpul BAD Lever, then you can push down on the lever to release the bolt.

2. By manually retracting the bolt using the charging handle, which allows the bolt stop to drop, and then swiftly releasing the charging handle. Be sure not to “ride” the charging handle as it springs forward. The bolt needs all the momentum to strip a new round and go into battery.

EJECTION PORT COVER

The MIKE-15 Gen 2 is equipped with an ejection port cover to keep dirt and debris out of the action when the rifle is not being fired.

The ejection port cover is manually closed by rotating it up and snapping it into place.

The ejection port cover will automatically snap open any time the bolt carrier assembly moves.

LOADING & RELOADING

When loading your MIKE-15 Gen 2 **ALWAYS** make sure the rifle is pointed in a safe direction, your finger is away from the trigger and the thumb safety is in the “safe” position.

A fully loaded magazine is designed to be inserted on a locked back bolt, and have the first round stripped off as the bolt is “dropped” with the bolt release.

To properly load your weapon:

1. If not already locked open on an empty magazine, lock the bolt rearward
2. Visually check that the last round has ejected and ensure the chamber is empty
3. Remove the empty magazine, if needed, and insert a loaded magazine
4. Pull down on the magazine to confirm it is fully locked into place
5. Press firmly on the bolt release paddle, allowing the bolt to drop at full speed, and charge the weapon

FM Products STRONGLY suggests not “riding the charging handle”, to release the bolt when loading a new magazine.

If the handle is released too soon, or if the shooter “rides” the handle”, causing the bolt to slow, there may be insufficient momentum to strip the round from the magazine and load it into the chamber.

Quickly releasing the handle after pulling it rearward, is the correct way to manipulate the charging handle.

A bolt should **NEVER** be “dropped” at full speed on an empty magazine or empty chamber.

To close the bolt on an empty chamber for storage:

1. If not already locked open on an empty magazine, lock the bolt rearward
2. Visually check that the last round has ejected and ensure the chamber is empty
3. Remove the magazine
4. Pull rearward on the charging handle, allowing the bolt stop to retract
5. Slowly allow the charging handle to move forward until the bolt comes to rest on the chamber

A fully loaded magazine should **NEVER** be inserted on a closed bolt.

FM Products **STRONGLY** suggests that if you want to do “tactical reloads” or “topping off the gun”, where the shooter changes out a partially spent magazine on a closed bolt, that your magazines be downloaded by 2 rounds.

A fully loaded magazine spring exerts a great deal of upward force, and can place a substantial amount of pressure on the bolt carrier assembly when inserted.

A fully loaded magazine may cause the sides of polymer magazine tubes to swell due to the double column design.

It is normal for a fully loaded magazine to not drop free because of this swelling.

It is a best practice to always retain magazines with ammunition during a “tactical reload”, in these cases the shooter would manually remove the magazine from the gun.

Empty magazines, by design, will drop free as they do not need to be retained.

CLEARING MALFUNCTIONS

All semi-automatic firearms may experience a malfunction from time to time.

Most malfunctions are caused by improper maintenance, out of spec ammunition, improperly maintained magazines, or debris that has been introduced to the internal parts of the firearm.

To minimize the frequency of malfunctions, your firearm should be maintained in accordance with this instruction manual.

STEPS TO CLEAR A MALFUNCTION:

1. Always keep the firearm pointed in a safe direction.
2. Keep your finger outside of the trigger guard at all times.
3. Take note of the type of malfunction so that remedial maintenance or repair can be performed if necessary.
4. Retract the bolt carrier assembly to its fully rearward position and lock it open.
5. Remove the magazine and clear the malfunction using your fingers or a small plastic tool.

Metal tools should not be introduced into the action of a firearm as they can cause damage or detonate the primer of the cartridge.

If you are unable to clear the malfunction, contact info@FM-Products.com or your local gunsmith for further instructions.

FIELD STRIPPING

Field stripping is the quick disassembly of the firearms major components for cleaning and inspection.

The field stripping of your new firearm is covered in much greater detail in our how-to videos, which can be found on our website www.FM-Products.com

ALWAYS wear safety glasses when field stripping the FM-15 Gen 2, as components under spring pressure could potentially cause eye injury.

FIELD STRIPPING MIKE-15 GEN 2

1. Remove the magazine.
2. Confirm the firearm is unloaded.

The majority of negligent discharges happen because of people skipping step #2.

3. Make sure the bolt is in the closed position.
4. Push the rear takedown pin and front pivot pin from left to right until it stops.

We build our receivers tight, so it may require a hammer & punch to tap out the pins on new firearms.

5. Separate the upper from the lower.
6. Use an 1/8" punch in the rear upper receiver plug to depress the recoil spring guide rod.
7. Slide the upper receiver plug down and out of the upper, freeing the recoil spring assembly. Use your other hand to capture the recoil spring assembly.
8. Pull on the front charging handle, causing the bolt carrier assembly to move rearward.
9. Pull the bolt carrier assembly from the upper.

FIELD STRIPPING, CONT'D

REASSEMBLY

10. Ensure the bolt is pulled all the way forward in the bolt carrier assembly.
11. Drop the bolt carrier assembly into the upper receiver.
12. Slide the recoil spring assembly into the upper receiver, aligning the guide rod with the recoil spring counterbore in the carrier key.
13. Depress the recoil spring guide rod with an 1/8" punch while sliding the upper receiver plug into the upper.
14. When the upper receiver plug is fully in the upper the recoil spring guide rod should "snap" into place.
15. Reattach the upper on the lower by sliding the front pivot pin and rear takedown pin from right to left.
16. Pull back on the forward charging handle to confirm the bolt carrier assembly moves freely in the upper.

For a thorough cleaning you will need to disassemble the bolt carrier assembly.

FIELD STRIPPING GEN 2 BOLT CARRIER ASSEMBLY

1. Remove the firing pin retaining pin (cotter pin) at the left/rear of the bolt carrier.
2. Remove the firing pin.
3. Depress the bolt head fully to the rear, turn the cam pin so the flat is aligned with the carrier key and remove by pulling it out of the bolt carrier. This is a snug fit so ensure the flat on the cam pin is aligned with the side of the gas key.
4. The bolt assembly can now be removed by pulling it out of the front of the bolt carrier.
5. Push the extractor pin in on the right side of the bolt and pull the extractor pin out on the left side of the bolt, then remove the extractor from the bolt.
6. No further disassembly is required for routine cleaning.
7. Clean and oil parts.
8. Reverse steps 5 thru 1 for reassembly.

BREAK-IN & MAINTENANCE

FM Products recommends a 500 round “break-in” period for any new firearm, where extra care should be given to ensure that adequate cleaning and lubrication is used.

When a gas gun is brand new is not uncommon to see more malfunctions during the first 100 rounds, as this is when the gas rings and other internal components are “wearing in”. Please make sure the internals are well lubricated to have a successful break-in period.

FM Products are shipped coated in a corrosion inhibitor. THIS IS NOT LUBRICATION!

Wipe off all corrosion inhibitor and properly lubricate before shooting your firearm for the first time.

We recommend spraying oil into the bore of the upper receiver, and coating the bolt and carrier with oil before shooting the weapon the for first time. FM Products likes to run our guns wet, especially when the gun is new and the parts are learning to play well together.

ONLY use cleaning and lubrication products designed for firearms. Many other products for automotive or industrial applications are NOT suitable for firearms and may void your warranty.

For best results, before every shooting session we recommend you perform a “quick clean” by wiping down your bolt carrier assembly and re-lubricating your bolt carrier assembly and inside the upper receiver every time you shoot your gun.

Use a high quality, light gun oil when lubricating, like Rem Oil or CLP in the aerosol can, which can quickly spray down the

BREAK-IN & MAINTENANCE, CONT'D

bolt carrier assembly.

We do NOT recommend using grease on the bolt carrier assembly. Grease is not suitable for break-in and can become thick in colder climates.

During break-in we recommend loading high capacity magazines 60% full to reduce pressure on the bolt carrier and ensure reliable function.

Perform a thorough cleaning and visual inspection of your bolt carrier assembly and other internal components every 500 rounds, or as needed.

Detailed cleaning & lubrication instructions are beyond the scope of the quick start guide and are best explained via videos, which can be found on our website www.FM-Products.com

TROUBLESHOOTING TIPS

Always troubleshoot any malfunctions in this order:

1. CLEAN & LUBRICATE (Page 18)

Improper cleaning & lubrication (aka dry & dirty) is the number one cause of malfunctions. Perform a thorough cleaning every 500 rounds and check for worn components, replacing as needed. Best practice is to always clean and lubricate the gun prior to shooting it.

2. AMMUNITION (Page 6)

Use high-quality, factory loaded, brass cased ammunition. Test a different type of ammunition to ensure you don't have a bad batch. Ammunition can have a wide range of tolerance. Know that steel case ammunition may have soft strikes or stuck chambers.

3. MAGAZINES (Page 8)

Use high quality magazines like Magpul PMAGs or aluminum USGI magazines. Test multiple magazines to see if the problem is linked to a particular magazine. Magazines do wear out over time and need to be replaced.

4. CONTACT CUSTOMER SUPPORT

If the malfunction continues to persist please contact us at info@FM-Products.com FM Products answers customer service emails 7 days a week.

NOTE: FM Products cannot provide technical support or troubleshoot components that we do not manufacture.

ACCESSORIZING YOUR MIKE-15 GEN 2

PROPRIETARY PARTS

Many of the components in the MIKE-15 Gen 2 are proprietary and therefore not interchangeable with standard AR pattern components.

In particular the gas block, barrel, barrel nut, bolt carrier, and carrier key are all proprietary, patent pending, or patented items and should NOT be disassembled. Removing, or disassembling, the barrel nut, gas block or bolt carrier key may void your warranty!

The rest of this section will detail the components that are compatible with other accessories.

4-POSITION CHARGING HANDLE

The forward charging handle on your MIKE-15 Gen 2 can be put in four different positions, left or right, up or down.

Changing the position of the charging handle is covered in much greater detail in our how-to videos, which can be found on our website www.fm-products.com

Please see technical document **2308013 - REVISED GEN 2 CHARGING HANDLE DISASSEMBLY INSTRUCTIONS** for updated instructions on how to remove the charging handle.

DO NOT EXCEED 15-20 IN/LB WHEN RE-TIGHTENING

The technical specifications of the charging handle is available for aftermarket manufacturers who would like to create new charging handle designs. Contact us at info@FM-Products.com

Mk2 HANDGUARD

The Mk2 handguard & barrel nut is proprietary to the MIKE-15 Gen 2, and because it is integral to the forward charging system it is not interchangeable with any other manufacturer's handguards.

The Mk2 handguard can be removed by using an IP27 Torx Plus driver to remove the two #10-32 x 1 1/4" screws. Do not lose the split washers or the charging handle spring when removing.

DO NOT EXCEED 15-20 IN/LB WHEN RE-TIGHTENING

Ensure the handguard is properly aligned by running the front charging handle without the bolt carrier assembly or recoil spring assembly installed.

The Mk2 barrel nut is NOT TO BE REMOVED, and may void your warranty by doing so. If the barrel or upper receiver needs to be serviced for any reason it must be sent back to FM Products. Contact us at info@FM-Products.com if you need service.

SIGHTS & OPTICS

The MIKE-15 Gen 2 Upper Receiver & Mk2 handguard are exactly 1/4" taller than standard AR upper receivers, to accommodate the front charging handle and captured recoil system.

FM Products used standard AR-15 sights, optics, and optic mounts during development without issue.

ACCESSORIZING YOUR FM-15 GEN 2, CONT'D

MUZZLE DEVICES

The MIKE-15 Gen 2 has industry standard 1/2"-28 threads on our barrels, and features 9/16" wrench flats near the muzzle.

The wrench flats are intended to be used to support the barrel with a wrench when torque is applied loosening or tightening a muzzle device.

ALWAYS work with a competent gunsmith who will use proper fixtures and tools to prevent damage to the barrel and upper receiver when changing out muzzle devices.

STOCK ADAPTER

The MIKE-15 Gen 2 captured recoil system requires the use of one of our stock adapters, which features an integrated recoil buffer as part of the threaded adapter.

We have multiple options for stock adapters, including a fixed, folding, and picatinny rail adapters. Please contact us at info@FM-Products for more information.

Use of the MIKE-15 Gen 2 Upper receiver without one of our stock adapters will damage the upper receiver and bolt carrier assembly and may void the warranty.

FIRE CONTROL (TRIGGER SYSTEM)

The MIKE-15 Gen 2 will accept any AR pattern triggers, including most "drop-in" triggers.

FM Products is unable to test all of the numerous aftermarket triggers on the market, and therefore cannot advise or guarantee that another manufacturer's product will work in our

firearm.

FM Products **STRONGLY** recommends choosing a Mil-Spec GI style trigger that offers ample hammer / disconnector engagement.

Burst fire is **ALWAYS** the result of an issue with the fire control, and is generally due to trigger not having sufficient disconnector engagement, or disconnectors wearing out.

FM Products can **ONLY** warranty the fire control that FM Products installed in your firearm.

ANY burst fire issues with an aftermarket fire control **MUST** be taken up with that trigger manufacturer or the gunsmith that installed the trigger.

FM Products does not provide technical support or troubleshooting of binary triggers, forced reset triggers, or any other aftermarket triggers.

If you are having an issue with the trigger included with your MIKE-15 Gen 2, contact us immediately at info@FM-Products.com

BOLT CARRIER ASSEMBLY

The MIKE-15 Gen 2 features a proprietary carrier, carrier key, and cam pin, as well as an updated mil-spec style firing pin with a return spring.

Please see technical document ***MIKE-15 GEN 2 FIRING PIN AND RESET SPRING UPDATE*** for revised instructions on the updated firing pin.

ACCESSORIZING YOUR FM-15 GEN 2, CONT'D

The bolt, extractor, ejector, and their springs are mil-spec, and therefore can be replaced by any manufacturer's parts that conform to the mil-spec.

Contact us at info@FM-Products.com if you need service on the carrier, carrier key, or cam pin.

LOWER RECEIVER

The MIKE-15 Gen 2 Upper Assembly is compatible with any AR pattern lower receiver as long as it conforms to the mil-spec and uses one of our Gen 2 stock adapters.

The MIKE-15 Gen 2 captured recoil system requires the use of one of our stock adapters, which features an integrated recoil buffer as part of the threaded adapter.

Use of the MIKE-15 Gen 2 Upper receiver without one of our stock adapters will damage the upper receiver and bolt carrier assembly, and may void your warranty.

A NOTE FOR COMPETITIVE SHOOTERS

At FM Products we appreciate that competitive shooting sports is a vital part of the gun culture and a way for average citizens to exercise their second amendment right, however in their quest to gain a competitive edge many shooters take a firearm, or magazine, that is designed to perform to military standards and modify it in ways that decrease reliability.

We firmly believe that training and practice is the only path to competency. Our goal is to provide consumers a high quality product at a great price, so they can spend more on ammunition and spend more time at the range shooting and training.

We support every customer's choice to customize and accessorize their personal firearm as they see fit, however no manufacturer, FM Products included, can support, troubleshoot, or be held responsible for products and accessories that they did not manufacture.

Please contact the accessory manufacturer, or the gunsmith who installed it, when problems arise using aftermarket components we don't formally recommend or support.

STATE-BY-STATE WARNINGS

Some states require by law that specified warning notices in “larger-than-normal” type be conspicuously included by the manufacturer, distributor, or retailer with firearms sold in that state.

Since our products may be sold in those states we include the following:

CALIFORNIA:

WARNING

“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.”

ADVERTENCIA

“Los niños se sienten atraídos y se puede operar las armas de fuego que pueden causar lesiones graves o la muerte. Evitar el acceso niño siempre manteniendo las armas bajo llave y descargadas cuando no esté en uso. Si usted mantiene un arma de fuego cargada en que un niño obtiene y utiliza inadecuadamente, usted puede recibir una multa de enviado a la cárcel.”

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, CONT'D

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 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 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, NY:

“THE USE OF A LOCKING DEVICE OR SAFETY LOCK IS ONLY ONE ASPECT OF RESPONSIBLE FIREARMS 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 OTHER 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,

MIKE-15/102 Gen 2 Firing Pin & Reset Spring Update

HOW-TO VIDEO AVAILABLE AT WWW.FM-PRODUCTS.COM

The bolt in your MIKE-15/102 Gen 2 upper receiver is equipped with Foxtrot Mike Products new, patent pending, Gen 2 firing pin & reset spring.

This new firing pin & reset spring are a safety upgrade to prevent slam fire malfunctions that could potentially occur when a mil-spec free floating firing pin is combined with non-mil-spec ammunition using soft primers.

To create the space needed in the bolt assembly for the Gen 2 firing pin & reset spring the use of a proprietary extractor pin is required.

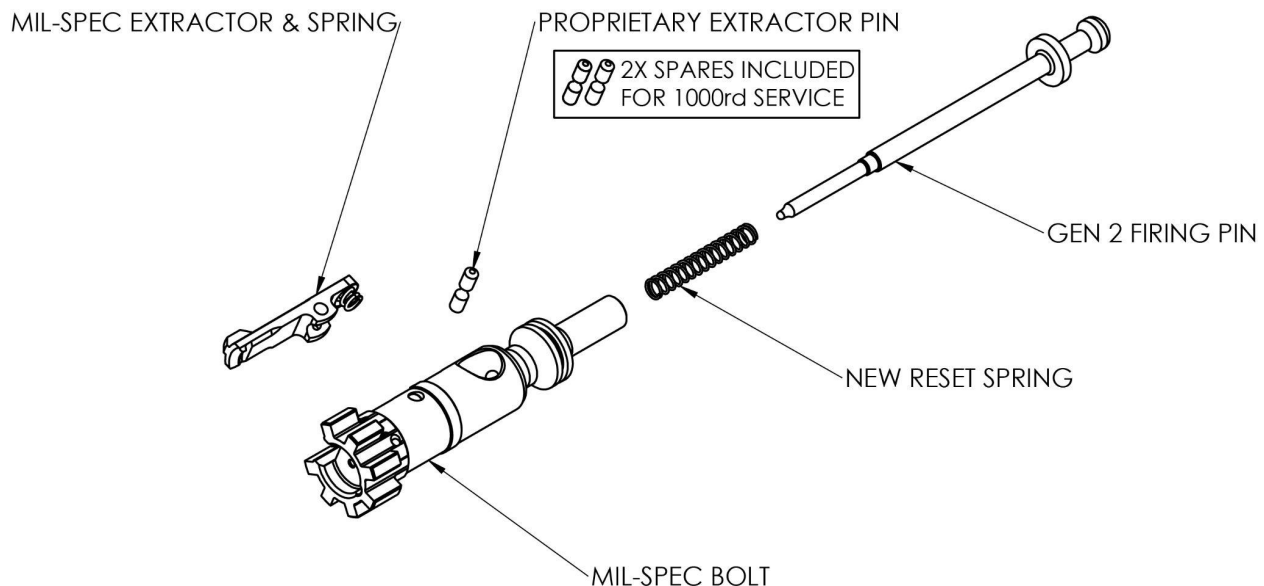
DO NOT USE A MIL-SPEC EXTRACTOR PIN WITH THE FIRING PIN RESET SPRING.

Consumers may choose to use a mil-spec free floating firing pin and extractor pin, assuming the firing pin spring is removed.

Mil-spec 5.56x45mm ammunition uses No.41 primers, they are specifically designed to mitigate slam fires. Non-mil-spec ammunition may use softer primers, which may increase likelihood of a slam fire.

The MIKE-15/102 Gen 2 firing pin & reset spring are compatible with all mil-spec bolts and are available as a stand alone kit for purchase as a safety upgrade.

**Please contact us at info@FM-Products.com with any questions.
FM Products answers customer service emails 7 days a week.**



WARNING: Always wear eye protection when working with firearms. Components under spring pressure could potentially cause eye injury.

WARNING: Always ensure the magazine is removed from your firearm and confirm your firearm is unloaded before beginning.

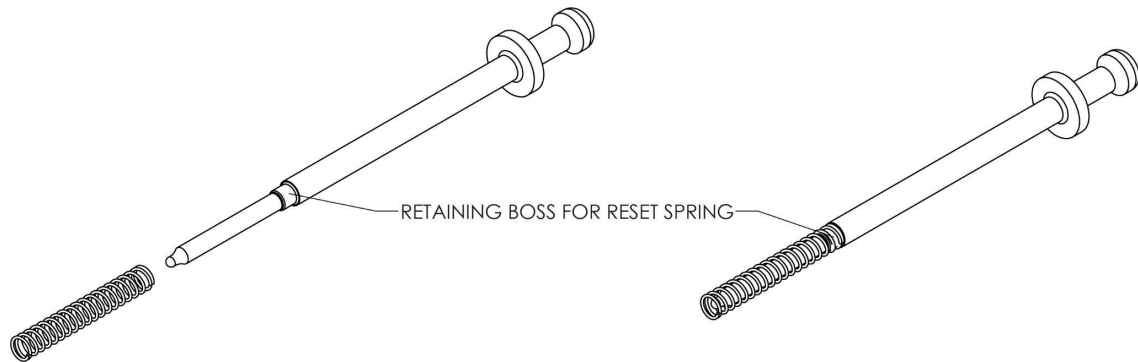
MORE INSTRUCTIONS ON THE BACK

REV B 9/23

FIELD STRIPPING

ALWAYS field strip, clean, and lubricate your bolt carrier group every 300-500 rounds. **Take care to flush the firing pin channel with gun scrubber and clean the firing pin to remove excess carbon buildup.**

The procedure to field strip your bolt carrier group does not change with the addition of the Gen 2 firing pin & reset spring. The Gen 2 firing pin features a retaining boss which should hold the reset spring in place during assembly and disassembly.

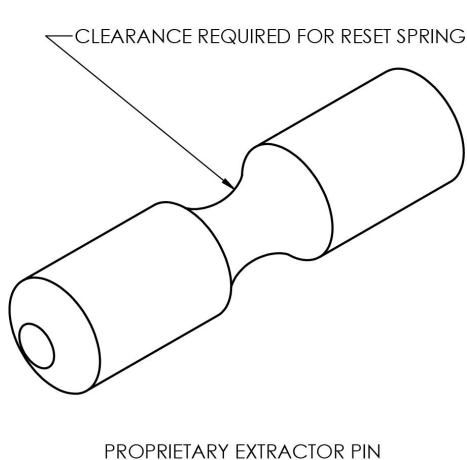


If the reset spring has slipped off this boss during operation then tap the tail of the bolt on a hard surface to bring the reset spring rearward, and use the tip of the firing pin, or a small pick if available, to fish out the spring.

EXTRACTOR REMOVAL

We recommend you perform a detailed cleaning every 1000 rounds which includes removing the extractor. **Ensure the reset spring has been removed from the bolt before attempting to remove the extractor pin.**

NEVER use the tip of the firing pin to push out an extractor pin. Use the firing pin retainer, or a small punch if available, to push out the extractor pin. Using the firing pin could damage the tip and reduce protrusion.



The Gen 2 firing pin & reset spring use a proprietary extractor pin. You cannot use a mil-spec extractor pin with the reset spring..

The proprietary extractor pin may split down the middle during operation, however because the extractor pin is captured by the carrier when the bolt is installed this does not impact proper extractor function.

To reiterate, the proprietary extractor pin is designed to function properly even if it has split in two.

FM does not recommend reusing the proprietary extractor pins once removed, which is why we have provided additional proprietary extractor pins for replacement every 1000 rounds.

FM recommends you replace the reset spring whenever you replace the other springs in your bolt, which is approximately every 3000 rounds. Bolt service kits are available which include all the recommended replacement parts and additional proprietary extractor pins.

**Please contact us at info@FM-Products.com with any questions.
FM Products answers customer service emails 7 days a week.**

MIKE-15/102 Gen 2 Picatinny Rail Adapter Installation Instructions

HOW-TO VIDEO AVAILABLE AT WWW.FM-PRODUCTS.COM

The MIKE-15/102 Gen 2 upper receiver's captured recoil system requires the use of one of our stock or picatinny rail adapters, which features an integrated recoil buffer as part of the threaded adapter.

Use of the MIKE-15/102 Gen 2 Upper receiver without one of our threaded buffer adapters will damage the upper receiver, bolt carrier assembly, & lower receiver, and may void the warranty.

Please contact us at info@FM-Products.com with any questions or concerns.

FM Products answers customer service emails 7 days a week.

WARNING: Always wear eye protection when working with firearms. Components under spring pressure could potentially cause eye injury.

WARNING: Always ensure the magazine is removed from your firearm and confirm your firearm is unloaded before beginning.

WARNING: As a firearm owner, it is your job to know and comply with the local, state and federal laws regarding firearms ownership. Please check with your local authorities for current laws and regulations in your locality.

INCLUDED COMPONENTS: Picatinny Rail Adapter Threaded Buffer Adapter #6-32 Set Screw 1/16" Hex Key Plastic Shim Rubber Band Mil-Spec Buffer Retainer Buffer Retainer Spring	REQUIRED TOOLS: 3/8" Drive Ratchet Handle with Extension SUGGESTED TOOLS: Magwell Vise Block Bench Vise All Purpose Grease
---	---

FULLY READ THESE INSTRUCTIONS BEFORE BEGINNING SO YOU UNDERSTAND HOW ALL OF THE PARTS WORK TOGETHER.

INSTALLATION STEPS:

1. We suggest securing your lower receiver in a bench vise using a magwell vise block.
2. Begin with the takedown pin* and takedown pin detent* installed in the lower receiver. We suggest greasing these parts before installation. Set the takedown pin detent spring* aside. (*parts not included)
3. If the #6-32 set screw is in the picatinny rail adapter then remove it using the 1/16" hex key and set it aside.

THERE ARE BOTH RIGHT HANDED THREADS (BIG END) AND LEFT HANDED THREADS (SMALL END) ON THE THREADED BUFFER ADAPTER.

BE CAREFUL NOT TO CROSS THREAD THE PLASTIC THREADS WHEN STARTING IT INTO THE LOWER RECEIVER (RIGHT HANDED) OR PICATINNY RAIL ADAPTER (LEFT HANDED).

ALWAYS START BY HAND AND DO NOT FORCE IT. THE ADAPTER SHOULD ROTATE FREELY.

DO NOT USE THREAD LOCKER ON THE THREADED BUFFER ADAPTER. IT IS MECHANICALLY LOCKED INTO PLACE BY THE BUFFER RETAINER.

4. Begin threading in the threaded buffer adapter into the lower receiver with the smaller threads facing rearward and the sprocket shape facing forward. Stop when only one complete revolution of the larger threads remains sticking out past the rear face of the lower receiver.
5. Install the buffer retainer and spring into the lower receiver. Use the plastic shim under the sprocket shape of the threaded buffer adapter to hold down the buffer retainer. Secure the shim in place using the rubber band around the pistol grip.
6. Install an extension onto the 3/8" drive ratchet handle. Set the ratchet to spin counter clockwise (lefty loosey), and insert the end of the extension into the square opening on the front of the threaded buffer adapter.
7. Use a counter clockwise motion (lefty loosey) to start the picatinny rail adapter onto the smaller threads of the threaded buffer adapter. You only need one complete revolution, just get it started and stop. Remember, the threaded hole in the picatinny rail adapter and the small end of the threaded buffer are both **LEFT HAND THREADS**.
8. Use your free hand to hold the picatinny rail adapter in alignment with the lower receiver, and begin spinning the ratchet handle counter clockwise. This should draw these two parts together. Ensure that the buffer retainer is being held down and out of the way by the plastic shim. Continue tightening the threaded buffer adapter until the picatinny rail adapter is snug against the back of the lower receiver. **DO NOT OVERTIGHTEN**.
9. If the threaded buffer adapter bottoms out inside of the picatinny rail adapter, leaving a gap between the picatinny rail adapter and the back of the lower receiver, you will need to reverse the direction of the ratchet to clockwise (righty tighty), and separate the two pieces just far enough to be able to spin the picatinny rail adapter on the threaded buffer adapter by one revolution counter clockwise, which will back it off from the lower receiver. Repeat from step 8, ensuring that no gap remains between the picatinny rail adapter and the rear of the lower receiver.
10. The sprocket shape of the threaded buffer adapter should protrude past the forward face of the upper receiver, **THIS IS NORMAL AND NECESSARY**, it allows the MIKE-15 Gen 2 carrier to come to a stop without damaging your lower receiver. **NEVER MODIFY THE THREADED BUFFER ADAPTER TO WORK WITH OTHER UPPER RECEIVERS.**
11. With the picatinny rail adapter snug against the rear of the lower receiver, pull the plastic shim out, allowing the buffer retainer to come up and engage with the sprocket shape of the threaded buffer adapter.
12. If the buffer detent does not align with one of the grooves in the sprocket shape then use the ratchet handle to carefully tighten the threaded buffer adapter counter clockwise (lefty loosey) until the next groove lines up and the buffer retainer snaps into place, mechanically locking it in.
13. If the sprocket shape is too far rearward to lock in with the mil-spec buffer retainer then you will need to reinsert the plastic shim, reverse the direction of the ratchet to spin clockwise (righty tighty), and separate the two pieces just far enough to be able to spin the picatinny rail adapter on the threaded buffer adapter by one revolution clockwise, which will bring it towards the lower receiver. Repeat from step 8, ensuring that the buffer retainer engages with the sprocket groove.
14. Insert the takedown pin detent spring into the lower receiver through the hole at the rear of the picatinny rail adapter. Thread in the #6-32 set screw and tighten until it's snug against the rear of the lower receiver.
15. Rotate your takedown pin to confirm the detent is engaged in the slot BEFORE function testing.
16. If you ever have to remove your picatinny rail adapter you will need to depress the buffer retainer with a pick or small screwdriver and hold it down with the plastic shim, before attempting to unthread the threaded buffer adapter with the ratchet and extension.

MIKE-15/102 Gen 2 3-Position Gas Block Update

HOW-TO VIDEO AVAILABLE AT WWW.FM-PRODUCTS.COM

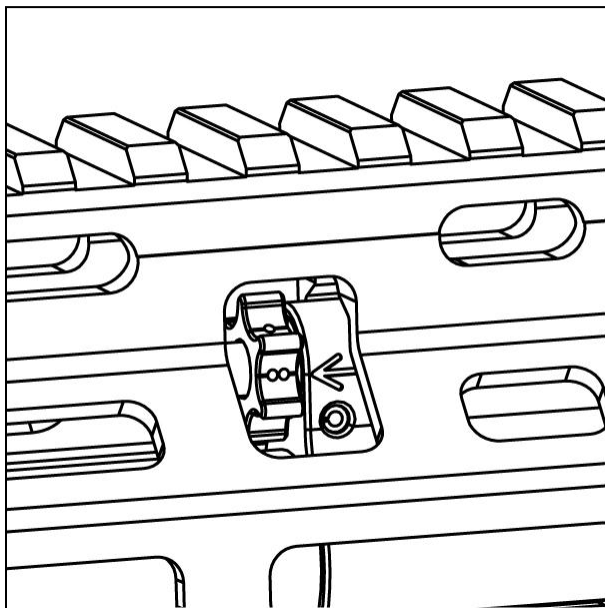
The gas system in your MIKE15/102 Gen 2 upper receiver is equipped with Foxtrot Mike Products new, patent pending, Gen 2 3-Position Gas Block.

This new 3-Position gas block is an upgrade to help regulate gas pressure and carrier velocity when using various types of ammunition or a silencer.

OPERATION

Gas blocks get hot during use! We **ALWAYS** recommend using a small flat head screwdriver, or similar tool, to rotate the gas regulator between settings.

The click adjustable gas regulator features three different positions. The arrow on the right side of the gas block indicates what position is currently selected.



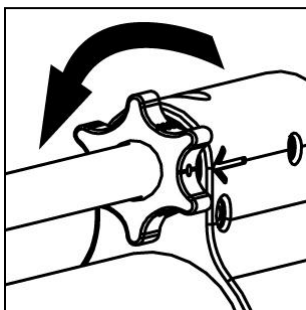
SUPPRESSED (1-DOT) - This setting has the smallest gas port, which restricts the gas as much as possible, for when you're running a silencer with high back pressure.

STANDARD (2-DOT) - This setting has an intermediate sized gas port. It was calculated to properly cycle and lock back on full powered, factory loaded, domestically produced mil-spec ammunition.

DIRTY (3-DOT) - This setting has the largest gas port, set-up to allow more gas through to cycle a bolt-carrier that is dirty or under lubricated. This is also the correct setting for running imported, underpowered ammunition.

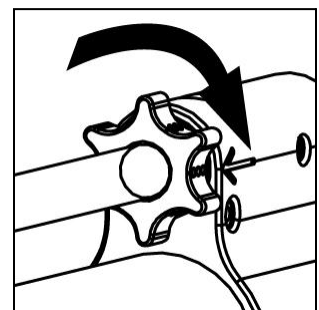
The gas regulator shown on the left is in the Standard (2-dot) position.

The gas regulator is setup to only rotate 180 degrees and then come to a complete stop. Always make sure you're turning the regulator in the correct direction.

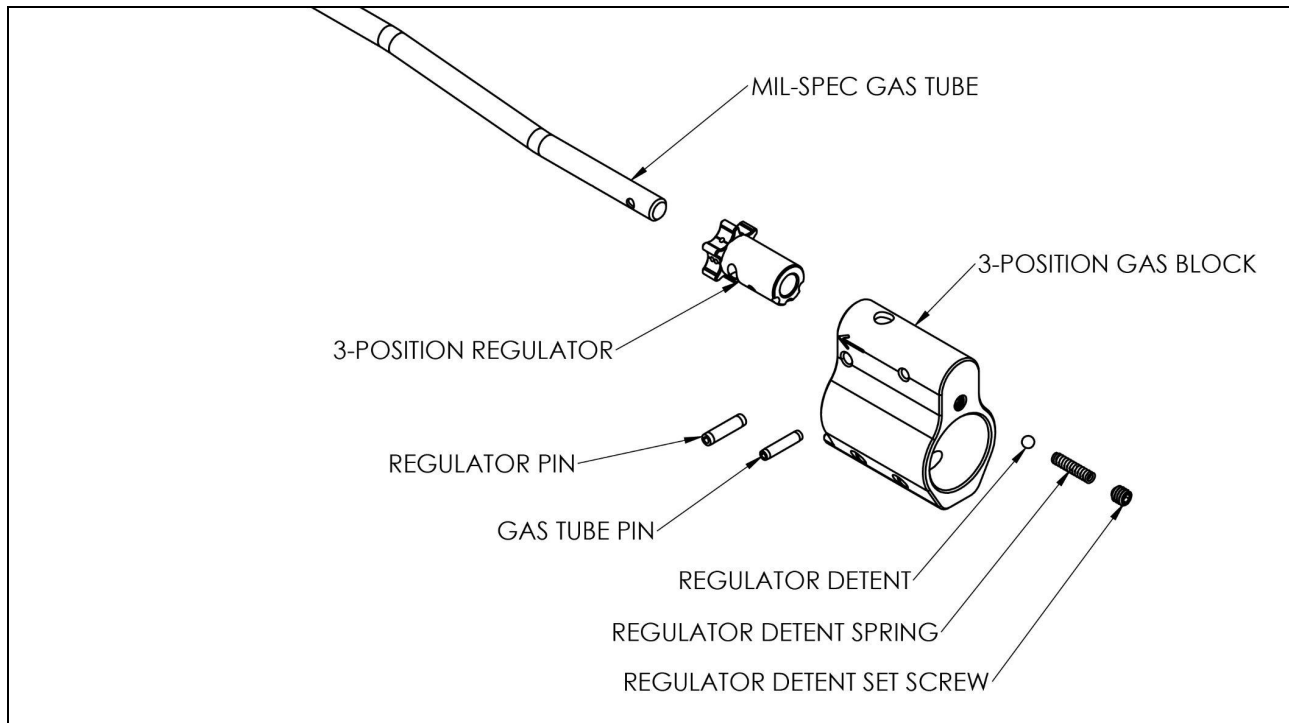


If the gas block arrow indicates you are on the suppressed (1-dot) setting, then you can only rotate counterclockwise to increase gas flow. (shown left)

If the gas block arrow indicates you are on the dirty (3-dot) setting, then you can only rotate clockwise to restrict gas flow. (shown right)



Please contact us at info@FM-Products.com with any questions.
FM Products answers customer service emails 7 days a week.



MAINTENANCE

Like any moving part on a firearm, the Gen 2 3-Position gas block requires cleaning and maintenance.

Whenever you field strip and clean your bolt carrier group (every 300-500 rounds) we recommend the following procedure.

1. With the bolt carrier group removed, prop up your upper receiver in a vertical position, muzzle side down on a shop rag to catch any oil.
2. Using a tube nozzle to reach inside the upper receiver, spray a shot of synthetic gun oil down the gas tube, with the intention of soaking oil into the interior of the gas regulator.
3. Carefully spray synthetic gun oil on the outside of the gas tube where it enters the gas regulator, with the intention of soaking oil in between the gas tube and regulator.
4. If the regulator is really stuck or dirty you may need to pull the handguard and spray synthetic gun oil into the inspection port on the top of the gas block, with the intention of soaking oil down into the regulator.
5. Give the synthetic gun oil at least an hour to soak into the assembly and loosen the carbon fouling, then begin working the regulator back and forth until it moves freely.

Keeping the regulator lubricated and moving freely between range sessions will help prevent it becoming bound up with carbon fouling.

If the regulator becomes bound up due to lack of maintenance, or from excessively dirty ammunition, it can be disassembled and thoroughly cleaned. It requires driving out the regulator and gas tube pins using a hammer and punch. **Spring pins are single use and should not be reused.**

Use a high temperature synthetic grease during reassembly to help keep the detent, spring, and regulator moving freely.

HOW-TO VIDEO AVAILABLE AT WWW.FM-PRODUCTS.COM

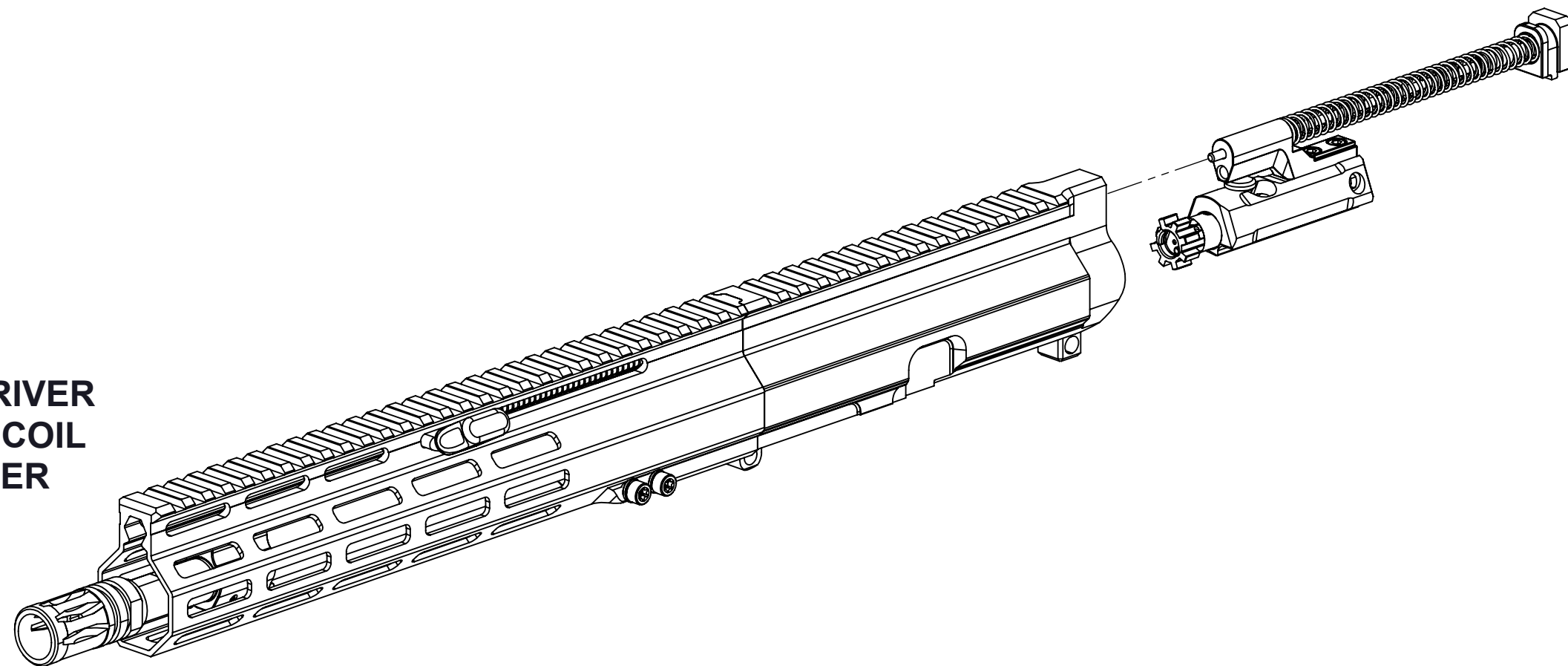
**Please contact us at info@FM-Products.com with any questions.
FM Products answers customer service emails 7 days a week.**

TOOLS REQUIRED

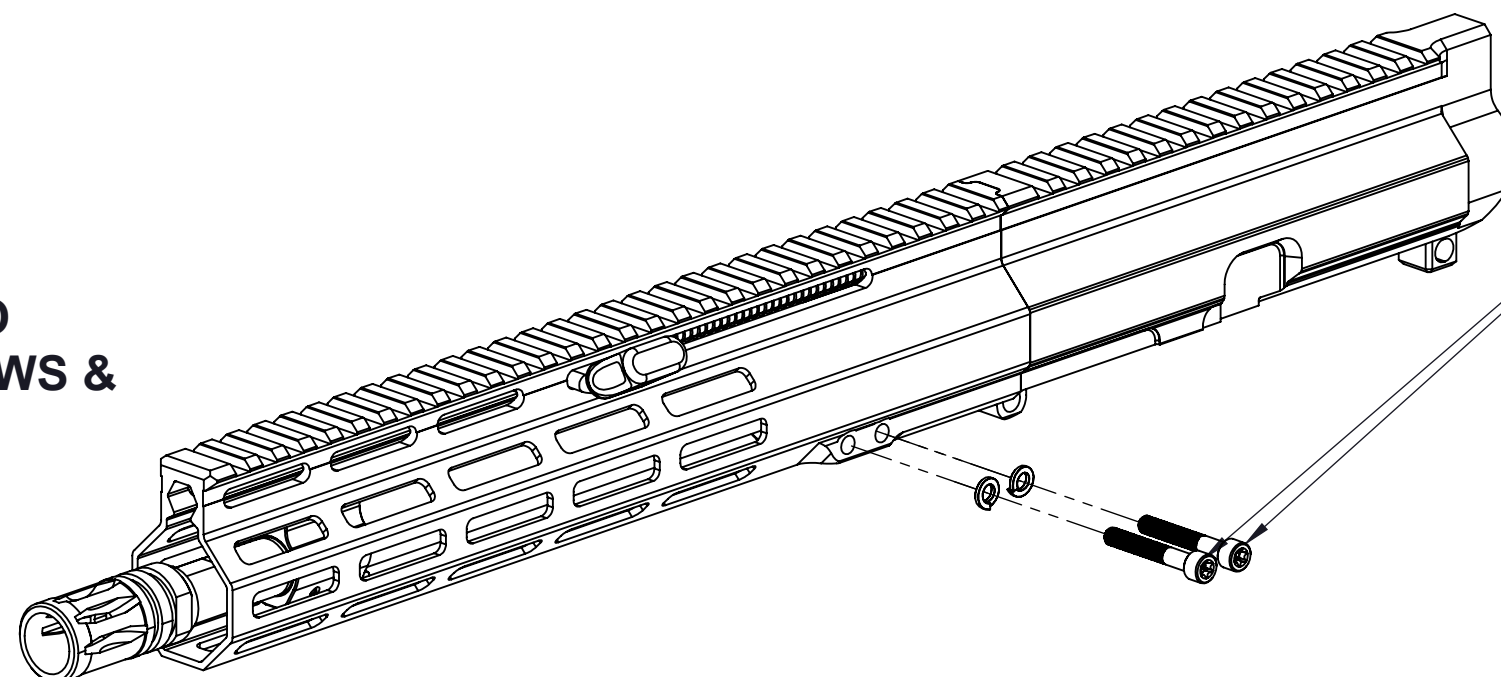
- 1. FLAT HEAD SCREWDRIVER OR 1/8" PUNCH (STEP 1)
- 2. IP27 TORX DRIVER (STEP 2)
- 3. 7/32" WRENCH (STEP 4)
- 4. LONG 3/32" HEX KEY (STEP 5)

REV.	DESCRIPTION	DATE	APPROVED
A	PRELIMINARY RELEASE	9/5/23	A. TROUT

STEP 1: USE FLAT HEAD SCREWDRIVER OR 1/8" PUNCH TO FIELD STRIP RECOIL SPRING ASSEMBLY & BOLT-CARRIER GROUP PER MANUAL

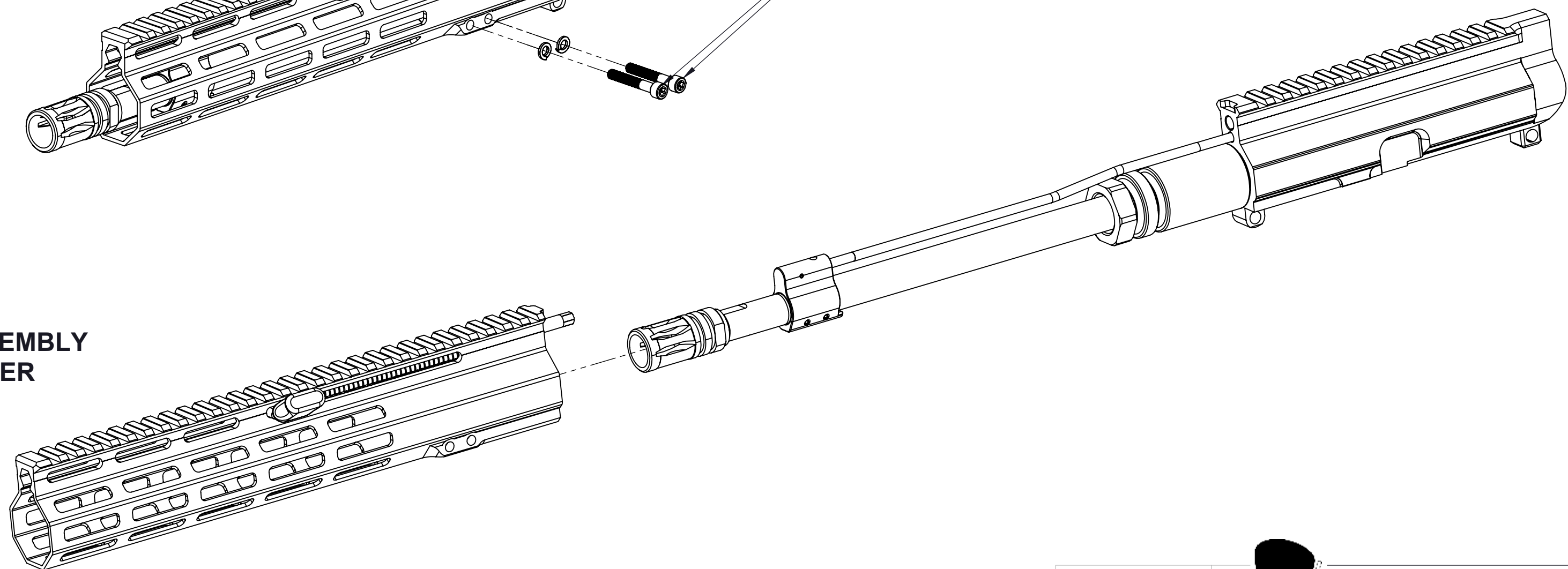


STEP 2: USE IP27 TORX DRIVER TO REMOVE TWO HANDGUARD SCREWS & SPLIT WASHER



**DO NOT EXCEED 20 IN/LB DURING REASSEMBLY
EXCESSIVE TORQUE CAN CAUSE THE THREADS IN THE HANDGUARD TO TEAR OUT AND RENDER THE HANDGUARD INOPERABLE**

STEP 3: SLIDE HANDGUARD ASSEMBLY FORWARD OFF OF UPPER RECEIVER ASSEMBLY



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: ±1°
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.005
PROPRIETARY & CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FOXTROT MIKE PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FOXTROT MIKE PRODUCTS IS PROHIBITED.



FOXTROT MIKE PRODUCTS
QUESTIONS?
INFO@FM-PRODUCTS.COM

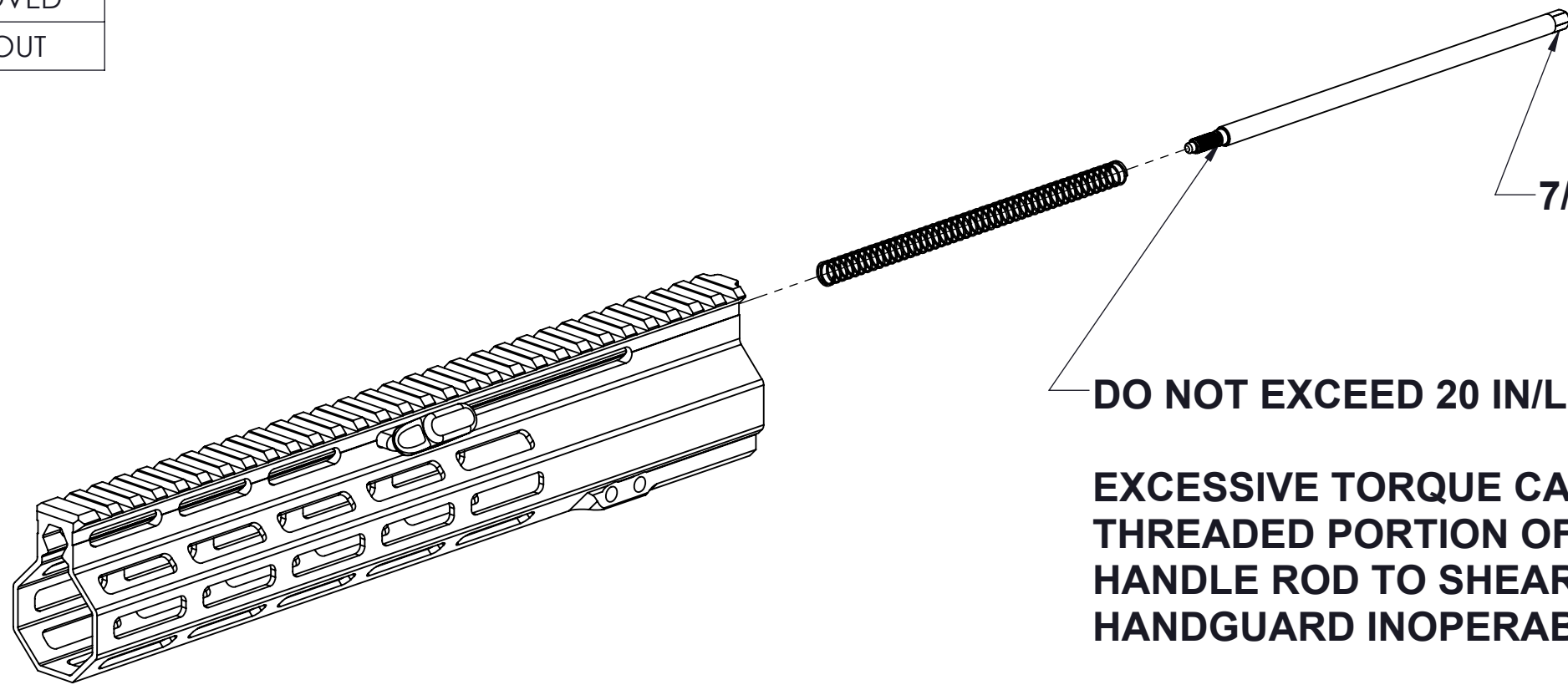
TITLE: **REVISED GEN 2 CHARGING HANDLE DISASSEMBLY INSTRUCTIONS**

SIZE: **C** DWG. NO.: **2308013** REV: **A**

DO NOT SCALE DRAWING SCALE: 1:2 WEIGHT: SHEET 1 OF 2

REV.	DESCRIPTION	DATE	APPROVED
A	PRELIMINARY RELEASE	9/5/23	A. TROUT

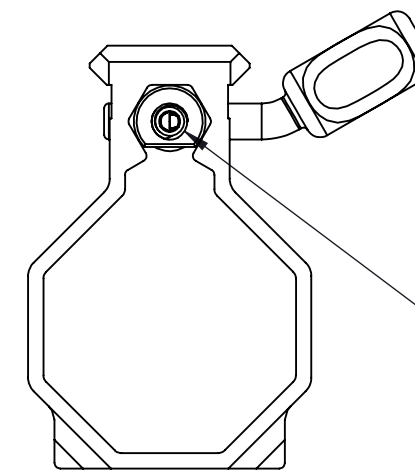
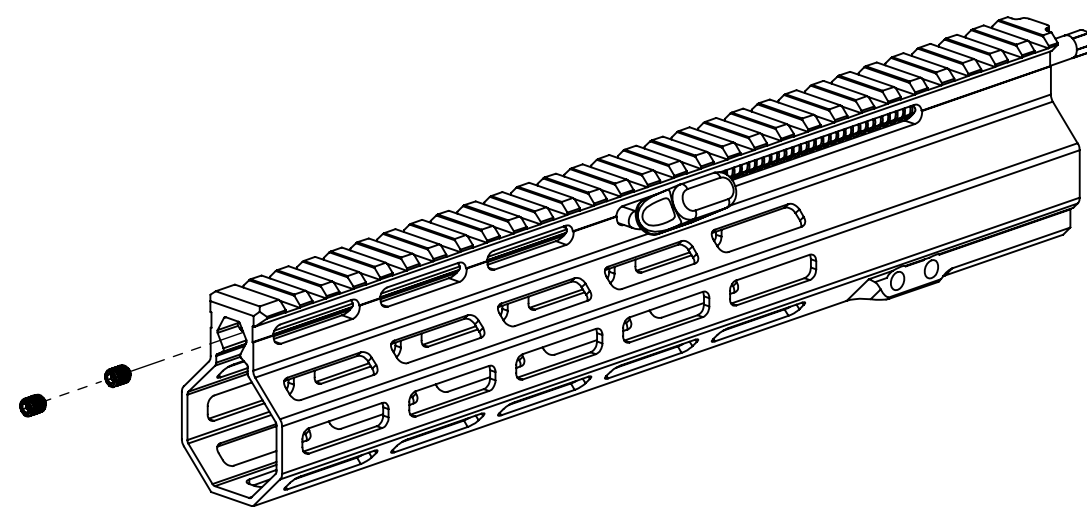
STEP 4: USE 7/32" WRENCH TO LOOSEN CHARGING HANDLE ROD. PULL ROD AND SPRING OUT FROM REAR OF HANDGUARD.



DO NOT EXCEED 20 IN/LB DURING REASSEMBLY

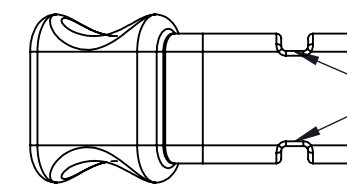
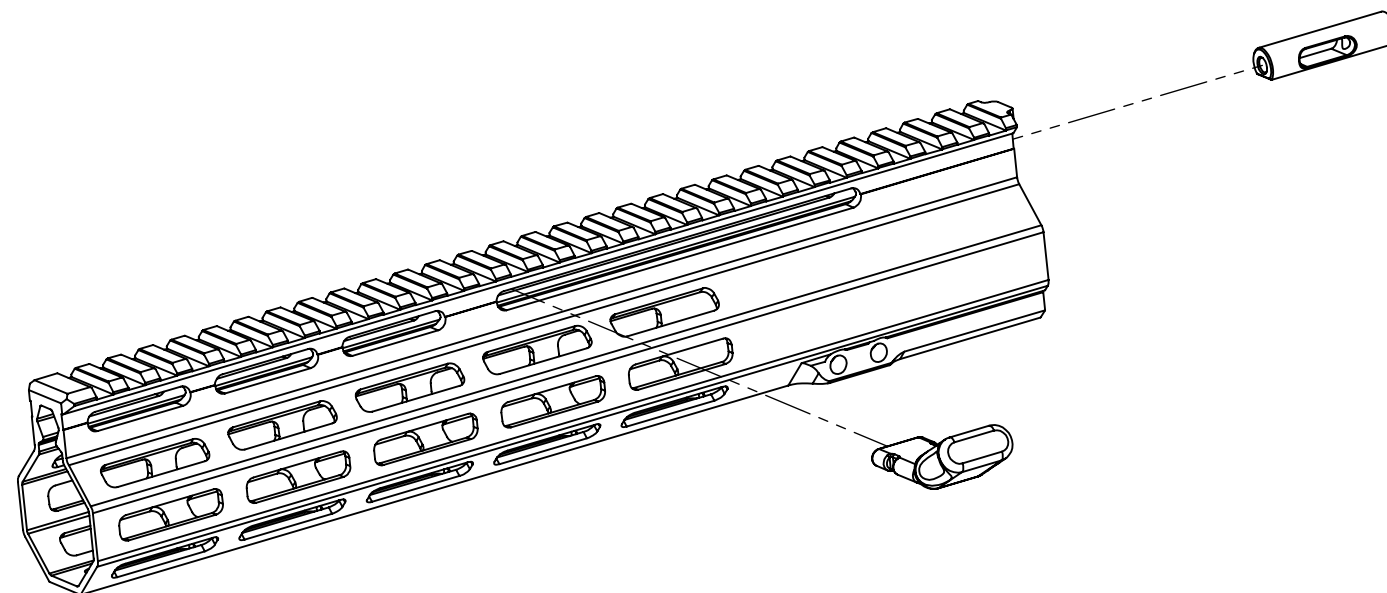
EXCESSIVE TORQUE CAN CAUSE THE THREADED PORTION OF THE CHARGING HANDLE ROD TO SHEAR AND RENDER THE HANDGUARD INOPERABLE

STEP 5: USE LONG 3/32" HEX KEY TO REMOVE TWO #10-32 SET SCREWS FROM THE FRONT OF THE CHARGING HANDLE TROLLEY



SET SCREWS ARE LOCATED HERE IN THE FRONT OF THE CHARGING HANDLE TROLLEY

STEP 6: PULL OUT THE CHARGING HANDLE AND SLIDE THE CHARGING HANDLE TROLLEY OUT OF THE HANDGUARD HEX CHANNEL



CHARGING HANDLES MUST HAVE TWO NOTCHES SO THE CHARGING HANDLE ROD CAN PROPERLY SEAT AGAINST CHARGING HANDLE.

USING A CHARGING HANDLE WITH ONLY ONE NOTCH WILL CAUSE THE CHARGING HANDLE ROD TO BE TOO LONG IN THE UPPER RECEIVER AND CAUSE MALFUNCTIONS.

ASSEMBLY NOTES:

- 1. REASSEMBLE IN REVERSE ORDER**
- 2. CLEAN ALL THREADS WITH ACETONE OR SIMILAR SOLVENT**
- 3. USE BLUE LOCTITE 243 OR SIMILAR THREAD LOCKER ON THREADS**
- 4. TIGHTEN ALL THREADS TO 15-20 IN/LBS**
- 5. LUBE THE EXTERIOR OF THE CHARGING HANDLE ROD & TROLLEY WITH GREASE BEFORE INSTALLING HANDGUARD ON UPPER RECEIVER ASSEMBLY**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES:
 ANGULAR: ±1°
 TWO PLACE DECIMAL ±.01
 THREE PLACE DECIMAL ±.005

PROPRIETARY & CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FOXTROT MIKE PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FOXTROT MIKE PRODUCTS IS PROHIBITED.



FOXTROT MIKE PRODUCTS
 QUESTIONS?
 INFO@FM-PRODUCTS.COM

TITLE: **REVISED GEN 2 CHARGING HANDLE DISASSEMBLY INSTRUCTIONS**

SIZE: **C** DWG. NO.: **2308013** REV: **A**

DO NOT SCALE DRAWING SCALE: 1:2 WEIGHT: SHEET 2 OF 2