



**AMERICAN
DEFENSE MFG**

USER MANUAL

**UIC15 / ADM4
RIFLE SYSTEMS**

**MAY 2019
REV B**





NOTE



This manual references .223 Remington or 5.56mm NATO ammunition throughout, although it should be used for the ADM UIC .300 Blackout.

Please be sure to use the appropriate ammunition for your specific firearm.

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SLIP2000

Slip2000™ Gun Lube is the official Gun Lube
used by American Defense Manufacturing.



1.0 CAUTIONARY NOTES



- Read and understand all of the following precautions before removing this firearm from its packaging. If you are unsure about or don't fully understand any part of these precautions or instructions, contact our factory safety help line at (262) 780-9831 for assistance before loading and/or firing this rifle.
- Carefully read this instruction manual which gives basic advice on the proper handling and operation of this firearm prior to loading and firing. Your safety and the safety of others depends on your considered and mature compliance of safe practices.
- If unfamiliar with firearms, seek further advice through safe handling, courses run by your local gun clubs, NRA approved instructors, or similarly qualified personnel or organizations.
- Use only clean, dry, original high quality commercially manufactured .223 Remington or 5.56mm NATO ammunition in good condition in your UIC/ ADM4 Rifle. The use of remanufactured or hand-loaded ammunition is not recommended as it may severely damage your rifle and/or cause you or others personal injury or death.
- If this firearm is carelessly or improperly handled, unintentional discharge could result which could cause injury, death, or damage to property.
- This American Defense Manufacturing (ADM) product is classified by the Bureau of Alcohol, Tobacco, and Firearms division of the Internal Revenue Service, U.S. Treasury department as a firearm or dangerous weapon. It is, therefore, potentially lethal to you and/or others.



1.1 GENERAL HANDLING PRECAUTIONS



- Always keep selector lever set to safe when the firearm is loaded and cocked until you are aiming at a target and intend to fire.
- Always handle your firearm as if it were loaded so that you never fire it accidentally when you think it is unloaded.
- Never point your firearm at anything you do not intend to shoot.
- Never take anyone's word that a gun is unloaded. Inspect it yourself with your finger off the trigger, safety on and the gun pointed in a safe direction.
- Always make sure your firearm is set on safe, unloaded, and the bolt is locked back before laying it down or handing it to another person.
- Always keep and carry your firearm unloaded with the bolt locked open and on safe, except when you intend to shoot.
- Always be aware of possible risk from dropping your firearm. Some parts of the weapon could be damaged. You may not see the damage, but if it is severe, the firearm may discharge unexpectedly and cause injury, death, or damage to property. If your firearm has been dropped, have it examined by a competent gunsmith before loading and using it again.
- Never leave a firearm cocked and ready to fire, unless you intend to shoot, as this condition is extremely dangerous and the firearm could be accidentally discharged causing injury, death, or damage to property.



1.2 RANGE PRECAUTIONS



- Ensure bullet backstop is adequate to stop and contain bullets before beginning target practice.
- Always have a knowledgeable and responsible person in charge to maintain safety control on the range.
- Always carry your firearm empty, on safe with the bolt locked open while on a range until preparing to fire. Keep it pointed towards the backstop and ensure no one is down range when loading, firing, and unloading to eliminate the risk of injury, death, or damage to property from premature discharge.



1.3 LOADING PRECAUTIONS



- Always check that ammunition is clean and undamaged before firing.
- Ensure barrel, bore, chamber, and action are clean and clear of obstructions or debris. Clean a wet or fouled firearm immediately so that it will function correctly and safely. Only use high quality ammunition in good condition, as stated earlier.
- Forcing damaged ammunition into the chamber could damage your rifle and/or result in injury, death, or damage to property.



1.4 CLEANING/STORAGE PRECAUTIONS



- Always make sure your firearm is not loaded before cleaning and storing.
- Always keep and store your firearms and ammunition in separate locked receptacles out of reach and sight of children and untrained individuals to minimize the risk of firearms and ammunition being easily

available for loading and firing.

- Never dry fire when the receiver is open as the level of safety could be reduced.
- Never alter parts, as the safety of the weapon will be compromised.



1.5 SHOOTING PRECAUTIONS



- Always keep selector lever set to safe when the firearm is loaded and cocked until you are aiming at a target and intend to fire.
- Never drink alcoholic beverages or take drugs before or during shooting.
- Always seek a doctor's advice if you are taking medication to be sure you are physically and mentally fit to shoot and handle your firearm safely.
- Always wear ear protection and shooting glasses when shooting, especially on a range.
- Always keep clear of the ejection port, to ensure safe ejection of live rounds.
- Never place fingers in the ejection port, as they could be burned by hot metal or injured by the bolt moving forward.
- Never attempt to fire if water is in the barrel. Water can accumulate in your firearm if exposed to heavy rain or fog. Open the bolt on an empty chamber and allow water to drain before firing. Clean and dry a wet firearm as soon as possible.
- Never shoot at a hard surface such as a rock, or a liquid surface such as water. A bullet may ricochet and travel in any direction to strike you or an object

you cannot see causing injury, death, or damage to property.

- Never discharge a firearm near flammable material.
- Never walk, climb, or follow a companion with your firearm cocked and ready to fire to eliminate risk of accidental discharge. When hunting, hold your firearm so that you can always control the direction of the muzzle if you fall. Always keep the selector set to safe.
- NOTE: American Defense Manufacturing's firearms are designed to function with a variety of brands and types of factory manufactured ammunition in the appropriate caliber, but not all ammunition produces the same results. To protect you from danger and your rifle from damage, American Defense Manufacturing does not recommend the use of hand loads or remanufactured ammunition.

2.0 EQUIPMENT

DESCRIPTION AND DATA

NOTE: Pictures in this manual are for illustration purposes only.

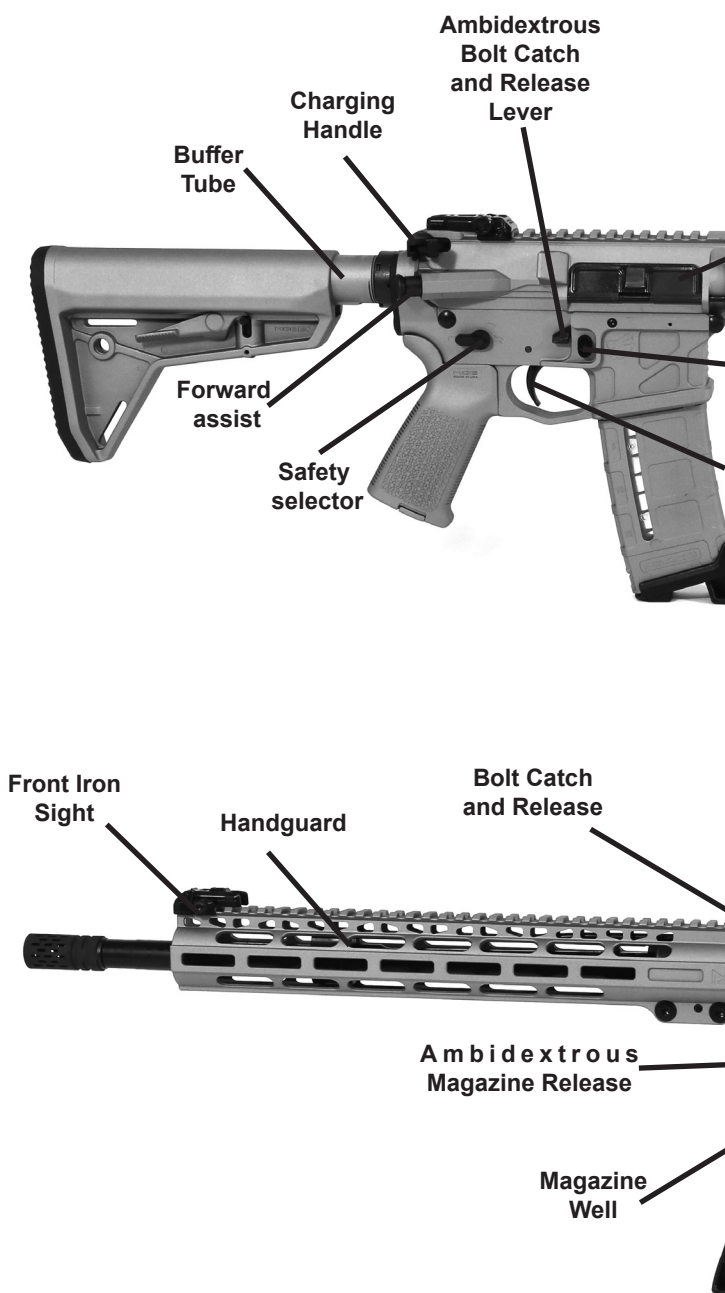
American Defense Manufacturing shall not be responsible for injury, death, or damage to property resulting from either intentional or accidental discharge of this firearm, or from its function when used for purposes or subjected to treatment for which it was not designed.

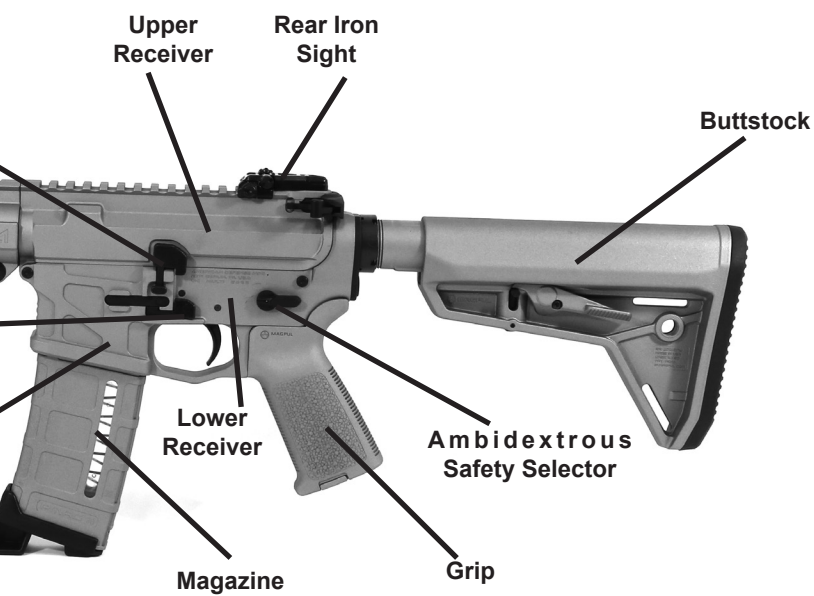
American Defense Manufacturing will not honor claims involving this firearm which result from careless or, improper handling, unauthorized adjustment or parts, replacement, corrosion, neglect, or the use of incorrect caliber ammunition, or the use of ammunition other than original high quality commercially manufactured ammunition in good condition, or any combination thereof.

American Defense Manufacturing will not honor claims involving this firearm for any reason or cause when such claims are made by the second or subsequent owner. Before it left the factory, this firearm was test fired, carefully inspected, and packaged.

American Defense Manufacturing cannot control product handling after it leaves the factory. Examine this firearm carefully at the time of purchase to ensure that it is unloaded and undamaged. The dealer will be pleased to assist you in making this examination and endeavor to answer your further questions. This instruction manual should always accompany this firearm. When you lend, give, or sell this firearm, be sure this manual goes with it.

3.0 GENERAL UIC RIFLE ANATOMY





4.0 PRINCIPLES OF OPERATION

4.1 SAFETY SELECTOR

Selector levers are located on the left and right sides of the lower receiver. They have two positions, **FIRE** and **SAFE**. When set to FIRE, the firearm will fire a single shot each time the trigger is pulled. When set to SAFE a cam bears on the rear portion of the trigger, preventing it from being pulled and preventing the hammer from being released.



4.2 FIRING

To fire the rifle, the safety is rotated to FIRE and the trigger is pulled, releasing hammer. The hammer springs forward under tension of the hammer spring. The hammer strikes the firing pin and the firing pin strikes the cartridge primer. The primer detonates from the firing pin impact and ignites propellant (gunpowder) inside the cartridge case. Very high pressure develops inside the case as the powder burns. The bullet is pushed from the case and accelerated down the barrel and out the muzzle.

4.3 UNLOCKING

Expanding gas pressure enters the gas tube through a port in the forward area of the barrel. This gas pressure travels through the gas tube into the gas key. Via the gas key, high pressure gas enters the carrier interior, but is trapped by the bolt rings at the front. Consequently, expanding gas pressure begins pushing the carrier to the rear, away from the bolt. As this gas continues to expand, (the bullet has already left the barrel) the bolt carrier continues to move rearward overcoming the tension of the action (recoil) spring. The cam groove of the bolt carrier acts on the bolt cam pin which, in-turn, causes the

bolt to rotate and the bolt lugs to disengage from the barrel extension locking lugs.

4.4 EXTRACTION

As the bolt now begins movement to the rear, the lip of the extractor, which is hooked on the rim of the cartridge case, pulls the case out of the chamber. The lip maintains its grip on the rim of the case through tension of the extractor spring as the bolt passes by the ejection port.

4.5 EJECTION

As the case clears the barrel extension, the stored energy of the ejector spring is applied to the rim of the case by the ejector plunger. The plunger completes its action as the case clears the ejection port and is rotated free of the extractor lip and bolt. If working properly, this sequence throws the case through the ejection port and clear of the rifle.

4.6 CHAMBERING

Chambering occurs when the cartridge is fully forward in the chamber. If there is an obstruction in the chamber, the cartridge case will not fit the chamber properly and the bolt will be prevented from locking.

4.7 COCKING

The thrust of the carrier assembly from the injection of expanding gases is so great, it continues to move the carrier and bolt assembly fully back into the receiver extension. As these parts move to the rear, the bottom surface of the carrier passes over the face of the hammer forcing it back and down against the tension of the hammer spring. With the trigger finger probably still to the rear at this moment, the hook of the disconnecter engages the rear hook of the hammer, holding the hammer to the rear and down until the trigger is released. The action or recoil spring is now fully compressed and prepared to thrust the recoiling mass (carrier and bolt assembly) forward.

4.8 FEEDING

As the bolt and carrier begin moving forward under tension of the action spring, the lower feed lug of the bolt strikes the base of the top cartridge in the magazine. The force of the bolt strips a round from the magazine feed lips. As the round begins to move forward, the tip of the bullet hits one of the two feed ramps of the barrel extension. The angle of the feed ramp helps force the round up and into the chamber as the bolt continues to move it forward in the feeding cycle.

5.0 PRINCIPLES OF OPERATION



WARNING



If the weapon fails this procedure, do not fire it. Take it to be inspected by a competent gunsmith or call American Defense Manufacturing at (262) 780-9831 to find a trained dealer near you. All safety checks must be done with the weapon unloaded and no ammunition present.

- Set safety selector to SAFE.
- Pull the charging handle fully to the rear and release. Pull trigger. Hammer should not fall.



- Set safety selector to FIRE. Squeeze trigger and hold it to the rear. (Hammer should fall.)
- Pull the charging handle to the rear and release it.
- Release trigger and pull it again. (Hammer should fall.)

NOTE:

- If the hammer is not cocked, selector will not be able to go to SAFE.
- Rifles with 2-stage trigger should exhibit a “first” stage of initial take-up of slack, then a heavier “second” stage that subsequently releases the hammer.
- 2-Stage triggers that do not exhibit a distinct first and second stage trigger pull, are not safe to load and fire.
- Contact American Defense Manufacturing Company customer service if you have any issues with your rifle.

6.0 CLEARING PROCEDURE

- Point rifle in a safe direction.
- Attempt to rotate safety selector to the SAFE position. If hammer is not cocked, selector will not rotate to SAFE.
- Press magazine release button.
- Allow magazine to drop or pull magazine down and out of the rifle.

**Ambidextrous Bolt
Catch and Release
Lever**

**Magazine
Release**

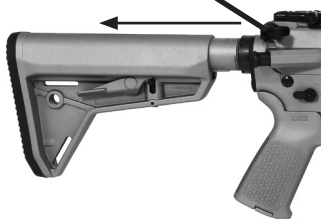


- Lock bolt open by pulling the charging handle fully to the rear and pressing the bolt catch below its pivot.

**Ambi-Charging
Handle**

**Bolt
Catch**

**Ambi-Magazine
Release**



- Once bolt is locked, return the charging handle forward until it locks back into the rifle.

- Visually inspect and verify that the chamber is clear and no ammunition is present in the rifle.
- The Weapon is now clear in Weapon State Green (No Magazine and Chamber Clear of Ammunition)



CAUTION



- Always check that ammunition is clean and undamaged before using the Forward Assist.
- Forcing damaged ammunition into the chamber could damage your firearm and could result in injury, death, or damage to property.
- Examine the ammunition, particularly on and around the primer. Look for dents, scratches, and other signs of damage. Do not load damaged ammunition. With the short end of the magazine facing forward, place a round between the lips of the magazine with the bullet forward.
- Press the round down until it is held by the magazine lips. Place next round on top of the previous round and repeat until desired number is loaded.
- The weapon may be loaded from either closed bolt (bolt forward) or open bolt (bolt locked to the rear). Preferred method of loading will determine on situation. The open bolt load is most often done when reloading from an empty magazine.



7.0 LOADING THE RIFLE

7.1 BOLT CLOSED LOAD

- Point weapon in a safe direction, place the weapon in readiness state amber (or yellow), cock the weapon first and place the safety on SAFE.
- Insert magazine into the magazine well, and push pull on the magazine to ensure it is fully seated.
- That completes the load.
- Pull the charging handle to the rear.
- Release the charging handle and allow it to move

forward on its own (do not ride the charging handle).

- The weapon is now in weapon state RED (weapon loaded, round in the chamber).

7.2 BOLT LOCKED TO THE REAR LOAD

(This results in a readied weapon at the completion)

7.3 READY FROM BOLT CLOSED LOAD

- Press in the bolt catch while pulling back the charging handle, to cock the hammer and leave bolt and carrier latched open to rear.
- Insert a loaded magazine firmly until the magazine catch engages. Press the top of the bolt catch. (Bolt should go forward).



- When you are ready to fire, aim your rifle towards your intended target.
- Rotate safety selector to FIRE.
- Squeeze the trigger to fire the rifle.

8.0 UNLOADING THE RIFLE



CAUTION



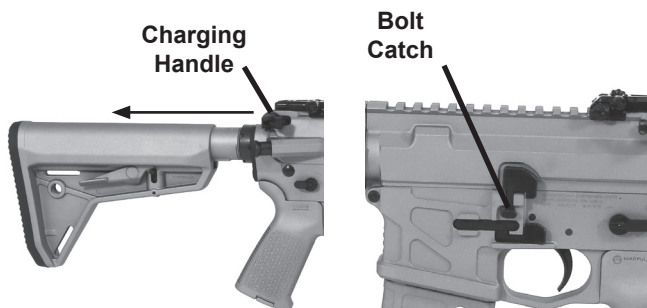
CAUTION: Always keep the muzzle of the rifle pointed in a safe direction and be sure the safety selector is on the SAFE position.

To safely unload the firearm, perform the following:

- Press the magazine release and remove the magazine.



- Pull the charging handle to the rear and push the lower section of the bolt catch to hold the bolt open.



- Visually inspect the chamber through the ejection port to ensure the chamber is empty.
- Insert a chamber flag to display to others that the rifle is unloaded and safe.
- Remove remaining ammunition from the magazine by sliding the forward and out of the magazine.

8.1 CLEARING MISFIRES/MISFEEDS



CAUTION



CAUTION: Always keep the muzzle of the rifle pointed in a safe direction and be sure the safety selector is on the SAFE position.

To clear a **misfire**, perform the following:

- If a round fails to fire, wait 10-15 seconds while keeping the muzzle pointed in a safe direction.
- Press the magazine release and remove the magazine from the rifle.
- Pull the charging handle to the rear and push the lower section of the bolt catch to hold the bolt open. Return the charging handle fully forward until it locks.
- Visually inspect the chamber through the ejection port to ensure the chamber is empty.

To clear a **misfeed**, perform the following:

- Follow instructions above for misfire.
- Once the bolt is secured to its rear position, it may be necessary to manually remove a jammed cartridge. When attempting manual removal, only use wood tools and use extreme care to avoid striking the primer of the cartridge.
- Visually check to make sure all cartridges have been removed from the rifle. Safely dispose of any cartridges involved in a misfeed incident. Do not try to re-use damaged ammunition.

9.0 CLEANING INSTRUCTIONS

NOTE: Clear and make your rifle safe before cleaning and inspection.

1. Before firing: Check that the barrel and chamber are clean. Run a dry patch from the chamber through the bore to remove any lubrication.
2. After firing: Clean your firearm as soon as possible so that the job will be easier and there will be less opportunity for corrosion to start.
3. Periodically, if not fired, clean your weapon at least twice a year in temperate climates and as often as once a week in tropical climates.
4. If you carry a loaded firearm, UNLOAD it and clean it at least once a month. If your firearm gets wet, clean it as soon as possible.
5. Clear the rifle and disassemble as needed.
6. Attach cotton patch to end of cleaning rod, insert it into the chamber, and pass rod and patch down through the barrel. Repeat while changing patches each time until the patch comes out clean.
7. Attach brass wire bristle brush to the cleaning rod and dip brush in gun cleaning solution (such as Shooter's Choice.) Thoroughly scrub out the barrel, passing the brush all the way through before reversing the movement. If you try to change direction while the brush is in the barrel, it will stick.
8. Repeat steps 6 and 7 until clean.
9. Attach the larger chamber cleaning brush to the cleaning rod. Dip the brush in cleaning solution and clean the chamber. Use a minimum of five plunge strokes and three 360° clockwise rotational strokes.
10. Use a solvent wet toothbrush to clean carbon and powder residue from around the gas tube in the upper receiver, bolt locking lugs, bolt rings, firing pin, bolt cam pin, lip of the extractor, and inside the bolt carrier from both front and rear.
11. Using a large patch and/or toothbrush, clean the receiver extension as well as the recoil spring and buffer. The same tools can be used to clean the

inside of the upper receiver as well as the charging handle.

12. Do not use wire brush on aluminum surfaces such as the receivers. If cleaning is necessary, avoid small scratches by using a small toothbrush or cotton patches. Wipe all components clean and dry and inspect them for excessive wear, corrosion, or mechanical damage. If any of these conditions are discovered, have them corrected before firing again.

13. Lightly moisten a cotton patch with gun oil and pass it once through the barrel leaving a thin film of oil on the inside surface. Leave this film of oil on the surface if firearm is to be stored. If it is not being stored or is removed from storage for use, pass a dry patch through the barrel and chamber to remove as much oil as possible prior to firing.

14. Check that pieces of patch, brush bristles, or any other residue from cleaning tools have not become lodged in any part of the firearm. Lightly lubricate the following parts:

- a. Ejection Port Cover Latch.
- b. Ejection Port Cover Spring.
- c. Action Springs and Pins.
- d. Charging Handle Latch.
- e. Charging Handle Latch Spring.
- f. Inside rear of Bolt.
- g. Mouth of Bolt Carrier Key.
- h. Bolt Carrier Exhaust Ports.
- i. Forward Assist.

15. Remove any gun cleaning solution, oil, and fingerprints from the outside surfaces of the firearm.

10.0 LUBRICATION GUIDE

ADM recommends, uses and includes Slip 2000™ Gun Lube with all firearms sold. Over lubrication should be avoided at all times. A light to medium coat of lubricant is all that is required to prevent rust. The following lubricating instructions are for before operations and firing, not storage.

- **LIGHTLY LUBED:** A thin film of oil barely visible to the eye. Wetting a cleaning patch with 5 -10 drops of oil and then wiping the area over several times with the same patch should produce this effect and spread the oil thinly and evenly.
- **GENEROUSLY LUBED:** A medium thick film of oil that can be spread or dabbed on with a finger. This can be applied with the fingers or a patch wetted with 20-30 drops of oil.



WARNING



Before the rifle is fired, wipe any lubricant from the chamber and bore with one or two clean dry patches, each run through the bore twice. This leaves just a trace coating of oil to those areas for short term corrosion protection.

Be careful not to get solvents or oils on the scope lens when cleaning or lubricating rifle or to scratch them while cleaning.

UPPER RECEIVER



- Lightly lube the inside of the upper receiver with oiled patch or angle-head, soft bristle, toothbrush. This includes the locking lugs and feed ramps of the barrel extension. A soft bristle toothbrush works best for locking lugs of barrel extension.

- Place one drop of oil on dust cover detent. Push detent in several times to work oil past detent into spring area. Brush/wipe off excess oil.
- Place one drop of oil on each end of the dust cover hinge. Work oil in by rotating dust cover open and closed. Brush/wipe off excess oil.
- Install Bore Rod Guide into Upper receiver. Assemble clean patch to leaning rod tip, or wrap the appropriate size patch around the Brass Jag from the Cleaning Kit.
- Push the patch through the receiver, into the chamber, and through to clear the muzzle and remove patch before withdrawing rod.
- Repeat several times as necessary. Repeat this with another clean patch paying particular attention to wiping the chamber clear of old lubricant by rotating the rod clockwise.
- With a lightly lubed patch, push the rod through to the muzzle and back again, 2 or 3 times, leaving just a trace coating of oil.
- Lightly lube charging handle. Apply one drop of oil to catch and spring. Squeeze catch several times and then brush/wipe off excess. Assemble charging handle to upper receiver, but do not push it fully forward.

BOLT CARRIER GROUP



- Lightly lube the firing pin. Apply lubricant to the firing pin recess hole with a lightly lubed, doubled-over, pipe cleaner through the firing pin recess hole. Pass the end of the lightly lubed pipe cleaner through extractor pin hole once or twice.
- Using the same, lightly lubed/doubled-over pipe cleaner push this into the straight section of the gas key two or three times.
- Lightly lube inner and outer surfaces of bolt carrier. Generously lube the four (4) carrier slide ribs. Two are located on either side of the gas key (10 & 2

o'clock) and two are at 5 & 7 o'clock. Also lightly lube cam pin groove and lightly lube the carrier's hammer cocking surface.

- Lightly lube extractor and extractor pin. Assemble extractor to bolt.
- Generously lube the cam pin and the outside of the bolt's diameter, bolt rings and tail-piece.
- Insert cam pin with firing pin hole aligned front to rear, rotate 90 degrees.
- Drop in firing pin and push it fully forward with cleaning rod section or small end of general purpose cleaning brush if necessary. Push firing pin retaining pin flush with carrier body to lock-in firing pin.
- Shake bolt and carrier assembly to ensure firing pin is retained.
- Work bolt back and forth several times to spread lubricant. Pull bolt to unlocked position and assemble in upper receiver with charging handle installed.
- Push bolt carrier and charging handle fully forward. Close dust cover.

LOWER RECEIVER



- Wipe buffer and inside of receiver extension (buffer tube) dry. Lightly lube action (recoil) spring. Place one drop of oil to buffer detent and push detent in several times to work lube past detent to detent spring. Brush/wipe off excess oil. Assemble buffer and action spring in receiver extension. Generously lube take down and pivot pins. Apply one drop of oil to their detent grooves. Work pins in and out several times to spread lubricant. Wipe dry all excess oil.
- Apply one drop of oil to the bolt catch, trigger guard detent, and magazine catch button areas. Work these controls in and out several times. Brush/wipe off any excess oil.

- Hold hammer down (to rear), apply one drop of oil to each end of the trigger pin. Pull trigger to rear several times to work oil between trigger pin and receiver. Wipe off excess oil.
- Apply one drop of oil to each end of the hammer pin. Rotate the hammer back about 1" several times while keeping the trigger pulled. Repeat this several times to work oil between hammer pin and receiver. Wipe off excess oil.
- Rotate hammer back fully with trigger pulled and note action of disconnect and rear hammer hook. Apply one small drop of oil each to contact surfaces of the hammer hook and disconnect and in between the sear and the disconnect.
- Observe that when hammer is forward, the hammer's sear hooks can be observed within the lower receiver.
- Apply one small drop of oil to the front and rear hooks, and with finger off trigger, cock the hammer.
- Hold hammer with thumb and release hammer by squeezing the trigger. Do this several times to spread oil down to the sear where not visible. Remove any excess oil with a dry, bent pipe cleaner.
- From inside receiver, apply one drop of oil to both visible round ends of the safety selector lever (Safety) shaft (not the midsection/cut-out portion) and to the end of the safety selector lever shaft on the right side of the receiver. Rotate safety from FIRE to SAFE several times. Wipe off excess oil.
- Lightly lube the face of the hammer.
- Assemble lower and upper receivers. Check action of charging handle, bolt catch, and dust cover.
- Dry fire rifle once or twice and listen for hammer fall.
- Close dust cover.
- SAFE rifle. It is now ready for loading and firing.

11.0 PREVENTATIVE MAINTENANCE CHECKS AND SERVICES (PMCS) TABLE

ITEM #	INTERVAL			PROCEDURE	EQUIPMENT IS NOT READY IF:
	B	D	A		
1	*		*	Check the system parts.	Major parts or components are missing.
2	*		*	Visually inspect the entire rifle for damaged or missing rifle components.	If components are damaged or missing.
3		*		Clean the rifle and day optic sight.	If rifle or components are dirty.
4A	*		*	Actuate safety-rifle must be cocked.	If hammer will not stay cocked.
4B	*		*	Rotate safety to SAFE position, squeeze trigger.	If hammer falls.
4C	*		*	Rotate safety to the FIRE position, squeeze trigger. Hammer should fall. (You should hear the hammer fall).	If hammer does not fall forward.
5	*		*	BOLT OPERATION-grasp charging handle and pull bolt fully to the rear. Operations should be smooth.	If operation is not smooth.
6	*		*	BOLT CATCH-while holding bolt to the rear, depress lower end of bolt catch and return charging handle fully forward. Bolt should be retained to the rear by the bolt catch.	If bolt is not held to the rear by the bolt catch.
7	*		*	MAGAZINES – check spring action and free up and down movement of magazine follower. Movement should be smooth and strong.	If magazine follower movement is not smooth and strong.
8	*		*	(Optional) DAY OPTIC SIGHT SYSTEM- Inspect for visual obstruction of target image by dust, dirt, fungus or moisture on optical surfaces, and loose or broken optical elements.	If these conditions resist correction after cleaning lenses.
9	*		*	Safety/trigger function check-perform safety/function check.	If scope is loose or reticle is canted.

12.0 TROUBLESHOOTING

NOTE: These are some of the conditions that may be observed, but in no way is it inclusive of all.

MALFUNCTION	CAUSE	CORRECTION/ACTION
1. Failure to Fire	a. Safety on SAFE	a. Move safety to FIRE
	b. Defective ammunition	b. Eject round.
	c. Improper assembly of firing pin	c. Retaining pin passes behind large diameter of firing pin
	d. Excess lube	d. Wipe firing pin dry and use pipe cleaner in firing pin recess
	e. Short firing pin protrusion	Replace firing pin
	f. Round not fully chambered	Clear obstruction from chamber. Clean and lube bolt, cam pin, and carrier
	g. Hammer not cocking, or "hair trigger".	g. Contact American Defense Mfg. Customer Service at 262-780-9831
	h. Trigger fails to release hammer	h. See Armorer for assistance and re-adjustment
	i. Rifle (pistol) grip screw is too long or washer is missing	Loosen rifle grip screw and re-test hammer cocking and trigger pull.
2. Failure to unlock	a. Gas key clogged	a. Use pipe cleaner to check and clear gas key
3. Failure to extract	a. Chamber ammo dirty	a. Clean chamber and wipe ammo clean
	b. Extractor spring weak	Replace springs
	c. Extractor stuck	Remove, clean, lube extractor
4. Failure to eject	a. Frozen ejector	a. Clean brass flakes from ejector and clean/lube ejector
	b. Not enough pressure	b. Replace gas rings and clean gas key
	c. Restricted movement of bolt carrier group	c. Remove, clean, lube, and check gas key fit and gas lube
	d. Restricted buffer	d. Remove, clean, lube extractor

MALFUNCTION	CAUSE	CORRECTION/ACTION
5. Failure to cock	a. Hammer spring in wrong	Contact American Defense Mfg. Customer Service at 262-780-9831
	b. Disconnecter hook worn	
	c. Disconnecter spring weak	
	d. Hammer hood worn	
	e. Hammer spring broken	
6. Failure to feed	a. Dirty/corroded ammo	a. Clean or replace
	b. Magazine not full seated	b. Adjust magazine catch
	c. Double feed	c. Replace magazine
	d. Bolt overrides cartridge	d. Replace magazine
	e. Restricted movement of bolt carrier group	e. Remove, clean, lube.
	f. Restricted buffer	f. Remove, clean, lube.
	g. Too many rounds in magazine	G. Remove excess
	h. Dirty magazine	h. Disassemble, clean, and lube magazine spring
7. Failure to chamber	a. Obstruction in chamber	a. Clear chamber
	b. Dirty/corroded ammo	b. Replace ammo
	c. Bullet stuck in bore just past chamber	c. Remove bullet
8. Failure to lock	a. Dirty bolt/locking lugs	a. Remove, clean, lube
	b. Dry/dirty cam pin or cam pin groove	b. Remove, clean, lube
	c. Burrs on bolt locking lugs	c. Show to armorer or gunsmith

13.0 DISASSEMBLY/ASSEMBLY

13.1 SEPARATION OF UPPER / LOWER RECEIVERS

NOTE: For detailed cleaning or in the event of functional problems, the lower receiver can be separated from the upper by pivoting it downwards after pushing out the takedown pin. This provides access to the mechanism and separates the firing mechanism from other components so that a cocked hammer cannot strike the firing pin. Never open or separate the upper receiver from the lower if a round is expected to be in the chamber or the rifle is loaded as serious injury or death may occur in the cause of a hang-fire or cook-off with the receivers open or separated.



CAUTION



When receivers are open or separated, never pull trigger and let hammer spring forward against receiver wall/bolt catch. Without the bolt installed and the receivers assembled, this can damage the receiver and bolt catch. When it is necessary to lower the hammer, retard it springing forward with your non-shooting hand as you pull the trigger.

Ensure rifle is cleared and release the bolt carrier with the bolt catch or the charging handle and allow it to go forward into battery.

- Pull takedown and pivot pins out as far as they can go.



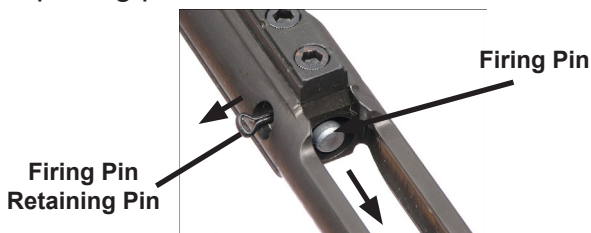
- Separate upper and lower receivers.



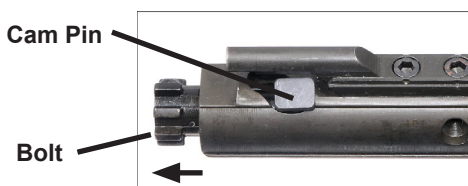
For assembly procedure, follow DISASSEMBLY instructions in reverse.

13.2 BOLT AND CARRIER

- Remove charging handle and bolt carrier assembly by pulling backwards. Lift charging handle out of channel. Remove charging handle.
- Remove firing pin retaining pin.
- Drop firing pin out of the rear of the carrier.

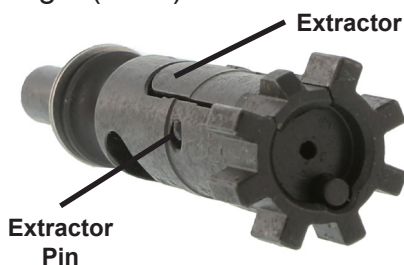


- Push bolt to the rear, rotate cam pin 90° and remove it.
- Pull bolt from the front of the carrier.



NOTE:

The following steps are only necessary if the extractor is dirty or damaged. Be careful not to lose extractor springs. (2 ea.)



- Push extractor pivot pin out.
- Remove extractor. (It is not recommended to remove the ejector.)
- For assembly procedure, follow DISASSEMBLY instructions in reverse.

13.3 HANDGUARD REMOVAL/ATTACHMENT

See Handguard Installation Appendix on **Page 31** for full details. To remove handguard:

- Remove the (4) screws at the rear end of the handguard.



- Slide handguard off from barrel assembly.
- If necessary to remove the aluminum barrel nut, use a carbine stock wrench.
- For assembly procedure, follow removal instructions in reverse.

13.4 LOWER RECEIVER DISASSEMBLY

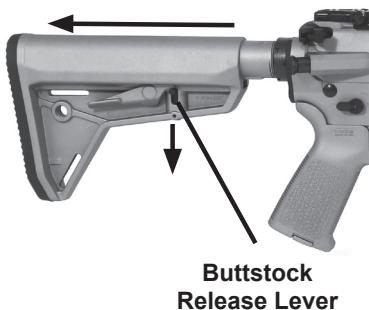


CAUTION



Buffer is under tension.

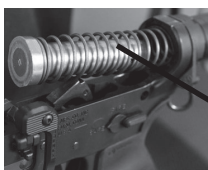
- Pull down on the buttstock release lever.
- Slide buttstock rearward off of the rifle.
- Ensure hammer is cocked.
- While holding the buffer steady, depress the buffer retaining pin.
- Release buffer slowly and remove buffer spring.
- For assembly procedure, follow DISASSEMBLY instructions in reverse.



Buffer Retainer



Buffer and Buffer Spring



13.5 ADJUSTABLE GAS BLOCK (MOD3 UIC)



- The adjustment screw in the front of the gas block has 15 useable positions.
- The default position on all MOD 3 rifles is at position 15 and fully opened gas flow.
- Turn the adjustment screw clockwise to close off the gas flow until there is 100% gas cutoff at position 1 to 0. Turn the screw counter-clockwise to increase gas flow. Position 5-7 from closed is usually the proper position for most 16" AR's unsuppressed.
- Contact cleaner and compressed air should be used to clean the screw, spring, and plunger if needed.
- Do not apply excessive oil or lube the gas adjustment screw. A light oiling followed by a wipe down is all that is required before re-installation of the adjustment screw.
- When cleaning the rifle, it is recommended to turn the adjustment screw to the fully closed position before any bore cleaners are used. When finished, return the screw to your desired position. This will also break free any carbon build up that may occur.
- Clamp-on and set screw bolt torque values are 25 in/lbs. Use common sense and tighten bolts and screws with moderate force.

14.0 LIMITED WARRANTY

FOR OWNERS WITHIN THE UNITED STATES
AMERICAN DEFENSE MANUFACTURING, LLC.
FORM OF LIMITED WARRANTY

Standard Conditions of Sale

All American Defense Manufacturing Rifles, hereafter referred to as products sold by American Defense Manufacturing, L.L.C.(hereafter referred to as the "Company") are subject to these terms and conditions of sale.

Limited Warranty

The Company warrants that its American Defense Manufacturing Rifles, if properly maintained, stored, transported and used, will be free from defects in materials and workmanship during the warranty period.

Warranty Period

Labor - One (1) year.

Parts - For the lifetime of the original purchaser.

Warranty Service

To obtain warranty service, the purchaser must deliver the American Defense Manufacturing Product to the point of purchase and submit a written service request. A written service request must include: (1) proof of purchase; (2) a copy of these terms and conditions of sale; and (3) an explanation of the problem. The Customer is responsible for shipping, damages, and loss in transit to ADM. ADM will cover return shipping and insurance in the event ADM finds a proper warranty claim. If ADM deems the service to be outside the scope of the warranty, the shipper will be responsible for any services authorized and cost of return shipping and insurance.

Extent of Limited Warranty

If the American Defense Manufacturing Product which is the subject of this Limited Warranty fails

during the warranty period for reasons covered by this Limited Warranty, and the purchaser submits the written service request required under these terms and conditions of sale, at its option, the Company will:

REPAIR THE AMERICAN DEFENSE MANUFACTURING PRODUCT OR REPLACE THE AMERICAN DEFENSE MANUFACTURING PRODUCT WITH A AMERICAN DEFENSE MANUFACTURING PRODUCT THAT IS FUNCTIONALLY AT LEAST EQUAL TO THAT OF THE AMERICAN DEFENSE MANUFACTURING PRODUCT BEING REPLACED.

This Limited Warranty does not cover damages due to external causes including, but not limited to, accidents, misuse, neglect, alteration, repair, improper maintenance, use of improper, reloaded, or corroded ammunition, or normal wear.

An Operation and Maintenance Manual (the "Manual") is included with the packing materials you received with this American Defense Manufacturing Product. Any usage or care not in accordance with the Manual voids this warranty, and any damage caused by such usage or care is not covered under this warranty. This warranty is limited to the original purchaser and is not transferable.

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HAVE OTHER RIGHTS THAT VARY FROM JURISDICTION TO JURISDICTION.

Assumption of Risk

Purchaser assumes all risk and liability for loss. Company shall not be responsible for injuries to person or property arising out of the use or misuse of the American Defense Manufacturing Products.

Merger

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Governing Law; Forum

These terms and conditions shall be governed by and interpreted in accordance with the laws of the State of Wisconsin. Any legal action or proceeding arising from or in connection with these Exhibit "E" – American Defense Firearms Limited Warranty for Owners Within the United States terms and conditions shall be brought exclusively in the Circuit Court for Waukesha County in the State of Wisconsin, or in the U.S. District Court, District of Wisconsin. Purchaser hereby irrevocably consents to service of process out of said State of Wisconsin or U.S. Courts in any such action or proceeding by mailing copies thereof by U.S. mail to Purchaser or any other method of service permitted by such courts. Final judgment (certified or exemplified copy of which shall be conclusive evidence of the fact and of the amount of any indebtedness therein described) in any such action or proceeding shall be conclusive and may be enforced in any court of competent jurisdiction by suit on the judgment.

FIREARM MAINTENANCE RECORD

[illegible]

15.0 Appendix A: Handguard Installation

1. Ensure that your firearm is unloaded.
2. Remove original handguard and barrel nut assembly (this includes the muzzle device and gas block/tube assembly).
3. Install ADM barrel nut, torque to 50-65 Ft/Lbs.

*** Industry standards recommend loosening and re-torquing three times for proper thread engagement***

4. Apply a small amount of Vibra-Tite® VC-3 thread locker to all mounting screw threads and let dry for 10 minutes.
5. Install jack screw to open handguard slightly to make installation easier.
6. Install handguard onto barrel nut.
7. Ensure handguard is aligned with upper receiver.
8. Loosen jack screw.
9. Install Anti-walk screw, and tighten hand tight.
10. Install Two handguard clamp screws, and torque screws to 55-60 in/lbs

Required Tools needed:

1 - Carbine stock pattern wrench (Castle nut wrench, AR-15 Armors wrench) *not included*

1 - T30 Torx driver/bit *not included*

Recommended tools / materials:

- 1 - Geissele Reaction Rod/Magpul Bev Block/Upper receiver vise block
- 1 - Torque wrench (ft/lb)
- 1 - Torque wrench (in/lb)
- 1 - Non-graphite moly grease (anti-seize barrel nut grease). Aeroshell 33ms recommended.
- 1 - Non-permanent thread locker (Vibratite VC-3, Loctite 242).

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