



WARNING!

Please read this owner's manual before taking your new RTT Firearms rifle out of the box. It is vital to your safety and the safety of others that you understand and adhere to the information contained in this manual, as well as information supplied by the manufacturer of the ammunition. If you have any questions, please write to:

**RTT Firearms,
1465 Countryshire Ave. #100**

Lake Havasu City, AZ. 86403

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Introduction 3

You are now the owner of a RTT Firearms rifle. With proper maintenance and care, it will serve you for many years to come.

To ensure the best performance from your rifle, please read and follow the instructions in this manual. Firearms are inherently dangerous and great emphasis should be placed on the need for safety. Always remember that you, as the owner, are the ultimate safety device.

You should become familiar with your rifle and its operation before using any live ammunition or actual firing. Study the instructions carefully and make sure you understand the rifle's operational guidelines.

This manual provides the necessary information you need to know in order to use your rifle safely and effectively. Should you have any questions or comments about this rifle or its use and maintenance, or if you need more information about other RTT Firearms products and accessories, please write:

**RTT Firearms,
Customer Service Dept.
1465 Countryshire Ave. #100
Lake Havasu City, AZ 86403**

Safety Information 4

Before you remove your new RTT Firearms rifle from the box/case, please read the following information. It is vital to both your safety and the safety of others. Firearms safety is your responsibility.

This SAFETY & HANDLING INSTRUCTIONS manual should always accompany this firearm, and should be transferred with the firearm upon change of ownership or when the firearm is presented to another person.

WARNING: YOU MUST FOLLOW ALL OF THESE SAFETY RULES TO ENSURE THE SAFE USE OF YOUR FIREARM. FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS CONTAINED IN THIS MANUAL COULD CAUSE SERIOUS INJURY OR DEATH TO YOU OR OTHERS. DAMAGE TO PROPERTY MAY ALSO OCCUR.

ALWAYS KEEP YOUR FIREARM POINTED IN A SAFE DIRECTION. Never point a firearm at anyone or anything you do not intend to shoot, whether or not the firearm is loaded. This is particularly important when loading, unloading, or field-stripping the gun. **ALWAYS** control the direction of the firearm.

This rifle may be classified as a dangerous weapon and is surrendered by RTT Firearms, with the understanding that the purchaser assumes all liability resulting from unsafe handling or any action that constitutes a violation of any applicable laws or regulations. Firearms can cause serious injury or death. Safety must be the prime consideration of anyone who handles firearms. Always treat a firearm as though it were loaded.

Safety Information 5

keep the muzzle pointed in a safe direction. When assuming ownership of a firearm, you become responsible for the safety and security of the firearm. Always secure firearms and keep out of the reach of children.

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

ALWAYS TREAT EVERY FIREARM AS IF IT WERE LOADED AND WILL FIRE. Do not take anyone's word that the firearm is unloaded:

Always check for yourself. Never pass your firearm to another person until the action is open and you confirm visually that it is unloaded. Keep your firearm unloaded and safely stored when not in use.

NEVER PLACE YOUR FINGER INSIDE THE TRIGGER GUARD OR ON THE TRIGGER UNLESS YOU INTEND TO FIRE.

ALWAYS BE SURE OF YOUR TARGET AND WHAT IS BEYOND IT. Always be sure where the bullet will strike, and shoot only where there is a safe backstop free of obstructions. Water or other surfaces can cause ricochets. Be sure your bullet will stop behind your target. Bullets can ricochet off many surfaces, such as rocks, and travel in unpredictable directions with considerable velocity. Do not fire randomly into the sky. Make sure your "audience" maintains a five foot distance behind you.

Safety Information 6

No one should stand next to you when you are firing a firearm.

- **Never touch the trigger when working the action.**
- **Never alter any components of your firearm.**
- **Never keep a loaded firearm in your home, car, boat, or RV.**
- **Never store a firearm with a cartridge in the chamber.**
- **Never store firearms and ammunition together. Keep them secured and away from children.**

Only use clean, dry, high-quality, American made, commercially-manufactured ammunition that is in excellent condition which is in the appropriate caliber of your firearm.

The use of reloaded and Non SAAMI spec ammunition will void this firearm's Warranty. Reloads or poor-quality ammunition may not meet industry specifications (SAAMI and/or NATO), may exceed pressure limits, and may be unsafe.

Never use ammunition where the pressure levels exceed industry standards. RTT Firearms, will not be held liable for any personal injury or property damage and consequential damages, if faulty ammunition is used in RTT Firearms rifles.

Never take medications, drugs, or alcohol when handling firearms. For maximum safety when carrying any rifle with a loaded magazine in place, the chamber should be empty, and the action should be closed. Any gun may fire if dropped or struck. Never discharge a firearm without proper equipment. Always wear shooting glasses and hearing protection.

Safety Information 7

If the gun does NOT discharge after the trigger is pulled, do not change its direction for at least 30 seconds. The round could be a “hang fire”. If the gun sounds different or does not operate, unload the firearm and make sure the barrel is free from obstruction before continued firing.

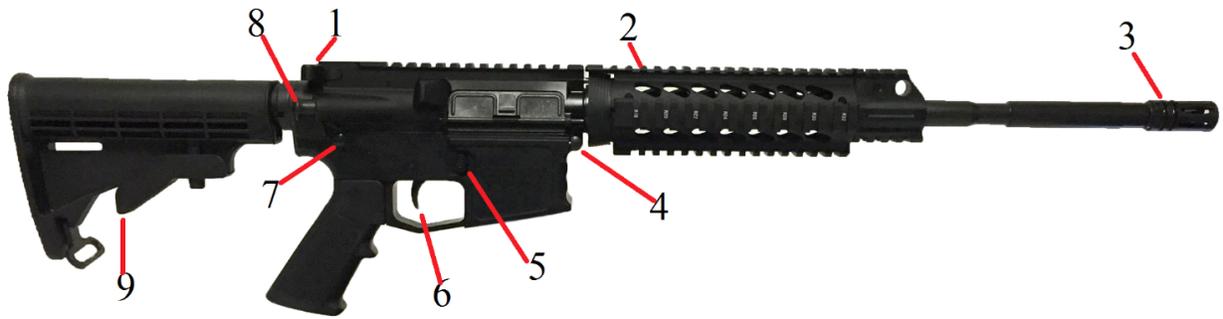
Do not allow anyone to handle or attempt to fire a RTT Firearm until they have read and understand this manual and the procedures for safe operation and safe gun-handling.

Be sure that all accessories are compatible with the firearm and that the accessories do not interfere with safe operation.

Never cross obstacles such as fences or streams with a loaded firearm.

Before the rifle left the factory, this firearm was tested, carefully inspected multiple times and packaged.

RTT Firearms, cannot control product handling after it leaves the factory; therefore please examine this firearm carefully at the time of purchase to ensure that it is unloaded and undamaged



RTT Rifle Overview 8

- **#1 Charging Handle**
- **#2 Handguard**
- **#3 A2 Flash Hider**
- **#4 Front Pivot Pin**
- **#5 Magazine Release**
- **#6 Trigger**
- **#7 Rear Takedown Pin**
- **#8 Forward Assist**
- **#9 Collapsible Stock Release**

Bolt Carrier Group Detail 9



Bolt Carrier: Includes: Gas Key Screws Gas Key



Firing Pin Retaining Pin



Bolt: Includes: (3) Gas & Rings Ejector



Bolt Cam Pin

Bolt Carrier Group Detail

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Firing Pin

General Handling Cautions

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- 1. DO NOT alter or modify your firearm, and have it serviced regularly.**
- 2. Always handle your firearm as if loaded.**
- 3. Never point your firearm at anything you don't intend to shoot.**
- 4. Always make sure your firearm is not loaded and the bolt is latched open and to the rear before laying it down or handing it to someone else.**
- 5. Never leave a loaded firearm unattended.**
- 6. Always be sure bore, muzzle, chamber and action are clear of obstruction.**
- 7. Always check that ammunition is clean and undamaged.**
- 8. Never drink alcoholic beverages or take drugs before or during shooting.**
- 9. Always wear eye and ear protection while shooting.**
- 10. Always keep the safety on "SAFE" when the firearm is loaded and a round is chambered until ready to shoot.**
- 11. Never attempt to fire if water is in the bore.**
- 12. Never indulge in "horseplay" when holding your firearm.**
- 13. Be sure the cam pin is installed in the bolt group. If it isn't, your rifle can still fire, but it could possibly explode, causing you personal injury or harm.**

General Handling Cautions

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14. DO NOT exchange or switch bolt assemblies from one rifle to another. It can cause personal injury to you and others and damage your rifle and will void warranty

15. If your firearm fails to fire, hold it, keep it pointed towards the target and wait 30 seconds. If a hang fire has occurred, the round should fire within 30 seconds. If the round does not fire, first remove the magazine, eject the round, and examine the primer. If the firing pin indent is light, misaligned or non-existent, have your firearm examined by a qualified gunsmith. If firing pin indent on the primer appears normal in comparison to previously fired rounds, assume faulty ammunition; appropriately dispose of misfired round from other live ammunition; reload and resume firing.

USE OF SAFETY SELECTOR

A selector lever, located on the left side of the lower receiver, has two positions. “FIRE” and “SAFE”. When set to “FIRE” the firearm will fire a single shot each time the trigger is squeezed. When set to “SAFE” a cam bears upon the rear of the trigger, blocking movement and preventing the hammer from being released.

FUNCTION CHECK 13

SAFE Note: Remove the magazine and make sure your rifle is unloaded and there is no ammunition in the chamber.

Point the rifle in a safe direction. Pull the charging handle to the rear and release. Place on safe. Pull the trigger. The hammer should not fall.

FIRE Note: Remove the magazine and make sure your rifle is unloaded and there is no ammunition in the chamber.

Point the rifle in a safe direction. Place the selector on fire. Pull the trigger and hold it to the rear. The hammer should fall. Pull the charging handle to the rear and release. Release trigger an audible click should be heard. Then pull again. The hammer should fall.

The disconnecter. This part of the firing mechanism prevents the firearm from slam firing. As the hammer is cocked after each shot, the disconnecter holds the hammer until the trigger is released. When the trigger is released, retention of the hammer passes from the disconnecter to the trigger, so it's ready for the next shot.

“SAFE” The rifle will not fire. The selector lever cannot be on safe unless the rifle is cocked. Always place the rifle on “SAFE” when loading and unloading.

“FIRE” The rifle will fire one round each time the trigger is pulled.

LOADING 14

Loading the magazine...

1. Use only ammunition for which your firearm is chambered.
2. With front of magazine forward, place a round between the lips of the magazine with bullets forward. Press the round down until it is retained by the magazine lips. Place the next round on top of the last and repeat until the desired number of bullets are loaded.

To load the rifle...

1. Press in on the bottom of the bolt catch while pulling back on the charging handle, to cock the hammer and leave the bolt and carrier to the rear.
2. Return the charging handle fully forward until it locks and remove finger from the bolt catch.
3. Set the selector to "SAFE".
4. With the bullets facing forward, insert the loaded magazine into the magazine well and push it in until it stops and it is retained by the magazine catch.
5. With the rifle pointed in a safe direction, press in on top of the bolt catch. This will release the bolt and carrier and move a round into the chamber. The rifle is now loaded with a round in the chamber and the hammer cocked.
6. You may now close the ejection port cover if you wish; it is located on the right side of the upper receiver and will open automatically when the first round is fired or the chamber is cleared.

Operation 15

To unload the rifle...

1. Set the safety selector to the “SAFE” position.
2. Press the magazine catch button and remove the magazine.
3. Pull the charging handle to the rear and push in the lower portion of the bolt catch. If a round has been chambered it should be ejected. If the last round in the magazine had been fired and the magazine was in place, the bolt and carrier should already be locked back to the rear.

CAUTION: Always check that your ammunition is clean and undamaged before using the forward assist. Forcing damaged ammunition into the chamber could result in personal injury or death to you and others, and damage your rifle or property. The use of reloaded, hand loaded or high pressure ammunition can be dangerous and will void the warranty.

Make sure the rifle is pointed in a safe direction and the safety is engaged at all times while loading the rifle. NEVER allow your fingers or other objects to contact the trigger while loading or unloading the rifle.

DO NOT disengage the safety until you are ready to fire and have the rifle pointed safely downrange.

Operation 16

Clearing Your Rifle...

- 1. Place the selector on “SAFE”.**
- 2. Remove the magazine.**
- 3. To lock the bolt open, pull the charging handle rearward, press the button of the bolt catch and allow the bolt to move forward until it engages in the bolt catch. Return the charging handle to forward. If you haven’t already done so, place the rifle on “SAFE”.**
- 4. Check the receiver and chamber to ensure these areas contain no ammunition.**
- 5. With the selector lever pointing toward Safe, allow the bolt to go forward by pressing the upper portion of the bolt catch.**

FIRING YOUR RIFLE 17

Never load a cartridge into the rifle until you are ready to fire the rifle. DO NOT disengage the safety until the rifle is pointed in a safe direction and you are ready to fire.

To Fire...

- 1. Always wear ear and eye protection when firing your weapon.**
- 2. Load firearm as previously described.**
- 3. Set rear sight to range required.**
- 4. Grasp firearm with one hand on the hand guard and the other on the pistol grip with the trigger finger resting alongside the trigger guard. Raise the firearm and pull the butt-stock firmly into shoulder.**
- 5. Aim by aligning the target with front and rear sights.**
- 6. Move the selector to “FIRE”.**
- 7. Keep steady aim, place the trigger finger on the trigger and squeeze gently until the trigger releases the hammer. Do not jerk the trigger as you will disturb your aim and ruin your accuracy. To fire the next round, and all subsequent rounds, all that is necessary is to release the trigger and squeeze it again after every shot, until you are finished or the magazine is empty.**
- 8. Release the trigger, remove your finger from the trigger and set the selector lever to “SAFE”. If you have fired the last round from the magazine, the bolt and carrier will be held to the rear so that you can quickly reload by replacing the magazine, or the chamber can be checked to ensure it is empty.**

MAINTENANCE 18

FIELD STRIPPING/DISASSEMBLY:

Your RTT Firearms rifle is based on a military rifle design and is very rugged, but proper maintenance is necessary to keep it in good working condition.

Make sure the Rifle is unloaded and chamber is clear.

- 1. Press the rear pivot pin from left of the lower receiver (it may be necessary to use a punch as the fit between upper and lower may be tight) Pull it out the right side until it comes to a positive stop.**
- 2. Pivot lower receiver down and away from the upper portion of the receiver.**
- 3. Press the front pivot pin in from the left side of the lower receiver and pull it out the right side until it comes to a positive stop.**
- 4. You can now separate the upper and lower receivers.**
- 5. Pull the charging handle to the rear and remove the bolt and carrier assembly.**
- 6. Remove the charging handle by pulling it backwards to key slot and down and out of the receiver.**
- 7. Push in the firing pin retaining pin right to left of the bolt carrier and remove it by pulling it out to the left.**
- 8. Tilt the bolt face up and allow the firing pin to slide out of the bolt body.**
- 9. Push the bolt in towards the carrier until it rotates and comes to a stop, then turn the cam pin 90 degrees.**

MAINTENANCE 19

10. Remove the cam pin by lifting it out away from the bolt and carrier.

11. Pull the bolt forward and out of the carrier.

12. Depress the buffer, maintaining pressure on it as the buffer is under spring tension, to prevent it from being ejected when the buffer retainer is depressed. Depress the buffer retainer to permit the buffer and spring to move forward. Depress the hammer to allow the buffer and spring to move forward and be removed from the buffer tube.

13. Using a punch, remove the extractor pin from the bolt assembly.

14. Remove the extractor and spring but DO NOT remove the spring from extractor.

15. Press the top of the extractor spring rubber tip to test spring function.

NOTE: Do NOT strip your firearm further than previously described. Further disassembly should only be performed by RTT Firearms.

Your rifle is now field stripped for cleaning. To reassemble, repeat the procedure in reverse.

MAINTENANCE 20

Upper Receiver – Clean the following with Rifle Bore Cleaner:

All areas that show powder fouling, including the bore and chamber; the locking lugs and bolt body and the gas tube protrusion inside the upper receiver. Use a worn bore brush to get the outside surface of the gas tube protrusion and the sides and bottom of the receiver.

Bolt & Carrier Group – Clean the following with Rifle Bore Cleaner:

The cleaning should include the outer and inner surfaces of the bolt carrier, the carrier key; firing pin recess and firing pin; the firing pin hole (best cleaned with pipe cleaner) the areas behind the bolt ring and under the lip of the extractor.

Lower Receiver Group

Clean areas of powder fouling, corrosion and dirt. Wipe dirt from trigger mechanism. Clean buffer and inside lower receiver extension.

CAUTION: Do not use a wire brush or any type of abrasive material to clean aluminum surfaces.

Clean, Inspect and Lube...

With the rifle disassembled, thoroughly clean, inspect and lube so you have a reliable weapon you can always depend on. After firing, clean your rifle twice on consecutive days with rifle bore cleaner. Wipe off the excess cleaner and lube according to the previous instructions.

NOTE: If any parts are missing or damaged contact RTT Firearms.

MAINTENANCE 21

Lightly lube – A film of oil barely visible to the eye.

Generously lube – Heavy enough so that it can be spread with the finger. Remember to remove excess oil from the bore before firing.

CAUTION: Only lightly lube the firing pin and firing pin recess in the bolt.

Upper Receiver:

Lightly lube the bore and chamber. Work the lube patch from the chamber to the muzzle. Do not reverse the patch direction inside the bore.

Lightly lube the outer surfaces of the barrel as well as the barrel surface under the hand guard.

Bolt Carrier Group: Generously lube the outside of the bolt and carrier making sure to get lube into the cam pin area, gas rings and the outside of the bolt body.

Using a dry pipe cleaner or cotton swab, place one drop of lube on to the carrier key.

Lightly lube the charging handle and the inner and outer surfaces of the bolt carrier.

Generously lube the slide and cam pin area of the bolt.

Lower Receiver:

Generously lube – Take down and pivot pins, lower receiver buffer and action spring and inside buffer tube.

Inspect your bolt and carrier parts before assembly

MAINTENANCE 22

ASSEMBLY...

1. Insert spring and buffer.
2. Insert extractor and spring. If the spring comes loose, put the large end of the spring in the extractor and seat.
3. Push in extractor pin.
4. Slide bolt into carrier.

WARNING: DO NOT interchange bolts between rifles.

5. Stagger ring gaps to minimize gas loss.

WARNING: Be sure that the cam pin is installed in the bolt group. Without it, the rifle can still fire, and can explode.

6. Replace bolt cam pin.
7. Drop in and seat firing pin.
8. Pull bolt back and replace retaining pin. The firing pin should not fall out when the bolt carrier group is turned vertically.
9. Engage, then push the charging handle part way into the upper receiver.
10. Be sure bolt is still unlocked. Slide in bolt carrier group.
11. Push in charging handle and bolt carrier group together.
12. Join upper and lower receivers.
13. Engage receiver pivot pin.
14. Close upper and lower receiver groups. Push in take down pins.

Service 23

Should your rifle need adjustment, refinishing, or repair, it should be returned to the factory, unloaded.

When shipping the rifle, be sure to adhere to the following rules:

Individuals who wish to return the rifle for service can do so by shipping it to the address below. No return authorization number is required.

Include a; letter of instruction, your full name, address, telephone number, and the gun's serial number. This will ensure prompt service and handling. Once your rifle has been received, anything other than warranty work will receive a quotation. You will be notified of full charges and no work will commence before your approval of the quote has been obtained.

RTT Firearms accepts payments in the form of money orders, Discovery, MasterCard, and Visa. Please return your rifle to:

RTT Firearms

Service Department

1465 Countryshire Ave #100

Lake Havasu, AZ. 86403