



# SUMMIT RIFLE

## Instruction Manual

17 Mach 2 • 22 LR Toggle Bolt-Action Rifle



## EXCELLENCE IS ESSENTIAL

Warning: Read entire manual before using firearm.

©2022 Volquartsen Firearms. All rights reserved.

## WELCOME!

Congratulations on the purchase of one of the finest firearms available — the Volquartsen Summit Rifle. Volquartsen Firearms takes great pride in each and every firearm that we produce. Each rifle is meticulously machined using the latest machining technology to ensure that you are completely satisfied with each and every rifle that we manufacture.

If you have any questions or encounter a problem, please be sure to contact us by either phone or email, and we will take care of it immediately. Your Volquartsen Summit Rifle comes with a limited lifetime warranty.

**712-792-4238**

**[info@volquartsen.com](mailto:info@volquartsen.com)**

This instruction manual is designed to assist you in learning the proper use and care for your Volquartsen Summit Rifle. However, in no way should this manual be a substitute for proper firearm training. Any alterations or unauthorized repairs to this pistol will void this warranty.



For warranty details visit  
**[Volquartsen.com/warranty](https://www.volquartsen.com/warranty)**

# SUMMIT RIFLE

## TABLE OF CONTENTS

Warnings . . . . .	4
Basic Rules of Firearm Safety . . . . .	5
General Information . . . . .	6
Loading . . . . .	7
Unloading . . . . .	8
Disassembly . . . . .	8
Firing . . . . .	10
Clearing a Malfunction . . . . .	11
Barrel Cleaning . . . . .	12
Ammunition . . . . .	13
Additional Information . . . . .	14

## **WARNINGS**

Read the instructions and warnings in the manual before operating this firearm.

This instruction manual contains operating, care, and maintenance instructions. Failure to follow the instructions and warnings in this manual can void the warranty. Failure to follow the instructions and warnings can also lead to accidents resulting in injury or death.

This instruction manual should be kept with this firearm at all times. This instruction manual should be transferred with it upon change of ownership.

There is no such thing as a foolproof firearm!

**FIREARM SAFETY  
IS YOUR  
RESPONSIBILITY!**

# SUMMIT RIFLE

## BASIC RULES OF FIREARM SAFETY

1. Before using any firearm, learn the mechanical and handling characteristics of your firearm.
2. Never point the muzzle in an unsafe direction.
3. Be sure to unload the firearm when not in use.
4. Check the barrel before shooting. Take care to make sure there are no obstructions.
5. Check your target thoroughly before shooting. Take note of anything or anyone close by.
6. Wear protective shooting glasses and hearing protection when shooting.
7. Never climb a tree, fence, or other structure with a loaded firearm.
8. Never shoot at any hard surface or at water.
9. Never transport a loaded firearm.
10. Never use any firearm when under the influence of alcohol or drugs.

## GENERAL INFORMATION

Before disassembling or working with your Volquartsen Summit Rifle, be sure it is unloaded.

### Alterations

Your Volquartsen Summit Rifle is designed to operate and function properly when it left the factory. Any alterations can cause the firearm to become unsafe. **DO NOT** substitute any part or accessory that is not produced by Volquartsen Firearms. If a repair becomes necessary for any reason, please contact us so we can repair your firearm properly. Any alterations of this pistol by anyone other than Volquartsen Firearms will void the warranty and any subsequent work needed will be charged at our full shop rate.

### Trigger Mechanism

Your Volquartsen Summit Rifle features a target trigger that has been preset for trigger pull weight and optimal performance. It features internal parts made to exacting tolerances. Any modifications to this unit or its parts can cause the firearm to malfunction and/or become unsafe. Any alterations to the trigger mechanism by anyone other than Volquartsen Firearms will void the warranty and any subsequent work needed will be charged at our full shop rate.

# SUMMIT RIFLE

## Manual Safety

This rifle features a cross-button safety that is located in the forward portion of the trigger guard. The safety should always be in the “safe” position unless the firearm is actually fired. Never rely on a safety mechanism to justify careless handling or allowing the gun to be pointed in an unsafe direction. The only way to ensure safety is with the bolt open, the chamber empty, and no magazine in the rifle.

## Handling

The firearm may fire if it is mishandled, dropped, or struck with the safety in the “fire” position. Always make sure the chamber is empty and the magazine is removed when the firearm is not being used.

## LOADING

First, insert the loaded rotary magazine into the Volquartsen Summit Rifle. Load a cartridge into the chamber by fully retracting the bolt handle then pressing it forward fully.

Be sure the rifle’s safety is in the “safe” position during this process and be sure your finger is off the trigger. The rifle is now fully loaded, and it should remain in the “safe” position until it is ready to be fired.

## UNLOADING

Your Volquartsen Summit Rifle can also be fired as a single shot rifle. **THE RIFLE SHOULD NOT BE CONSIDERED UNLOADED IF THE MAGAZINE IS NOT IN THE RIFLE.** To properly unload your firearm, first make sure the safety is in the safe position, remove the magazine, pull the bolt to the rear, and eject the chambered cartridge.

Your final step is to visually inspect the chamber.

## DISASSEMBLY

The firearm must be unloaded during the disassembly. Safety glasses should be worn at all times when working with any firearm.

Follow the steps below to disassemble your Volquartsen Summit Rifle:

- 1 Remove the magazine from the receiver and visually inspect the chamber to ensure that there is not a cartridge in the chamber. (Fig. 1)

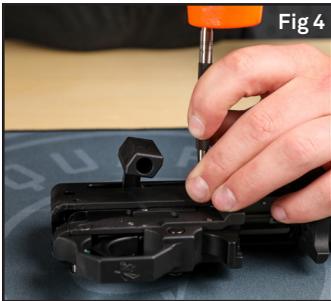


# SUMMIT RIFLE



2 Remove the takedown action screw—located at the bottom of the rifle—using a  $\frac{1}{8}$ " hex key wrench. (Fig. 2)

3 Remove the barreled action from the chassis. (Fig. 3)



4 Before removing the bolt, you will first need to remove the trigger guard. Use a  $\frac{1}{8}$ " punch to remove the two  $\frac{3}{16}$ " cross pins located at the bottom of the receiver. (Fig. 4) The trigger guard should slide out. (Fig. 5)



5 It is not recommended to disassemble the trigger guard any further. The inside of the trigger guard should be cleaned periodically. When cleaning the trigger guard, use an aerosol gun cleaner that leaves no residue. **DO NOT** spray any oil onto the hammer/sear engagement area. Be sure to remove any excess over spray with a cotton swab.

**6** In order to remove the bolt, use a  $\frac{1}{4}$ " punch and drift out the  $\frac{5}{16}$ " cross pin located in the top rear of the receiver. Lay the barreled action upside down on a flat, padded surface. (**Fig. 6**)



**7** Pull the bolt handle to the rear and remove the bolt by lifting upward. Removal of the bolt handle and operating rail is not recommended. (**Fig. 7**)



**8 DO NOT** disassemble the bolt any further. The inside of the receiver should be cleaned and minimally lubricated on a regular basis using any quality gun oil.

## **FIRING**

Once the safety is switched to the “fire” position, the rifle will fire with each pull of the trigger. After firing, pull the bolt to the rear to eject the spent round. Then cycle the bolt forward to reload and fire again. Be sure to switch the safety back to the “safe” position if subsequent shots are not going to be immediately fired.

# SUMMIT RIFLE

Be sure to keep face and hands away from the ejection port. The brass ejected will be hot.

## CLEARING A MALFUNCTION

Any firearm may malfunction or jam. One of the easiest ways to prevent this is to keep the chamber clean. If a cartridge jams, **DO NOT FORCE IT**. A hard impact on the rim can ignite the ammunition. If a jam or malfunction should occur, follow these steps in order to clear the malfunction:

- 1 Point the muzzle in a safe direction.
- 2 If possible, remove the magazine before proceeding to the next step.
- 3 Pull the bolt handle rearward before attempting to clear the jam or malfunction. The jammed cartridge may clear itself when you retract the bolt, so keep your face away from the ejection port during this operation.
- 4 If the cartridge did not eject on its own when you retracted the bolt, be sure to use only wood “tools” to remove the jam. This will help prevent a live cartridge from being ignited. A wooden dowel with a pointed end is recommended. The use of metal tools or objects may damage the chamber as you attempt to clear the jam.

- 5 Before resuming firing, visually check and make sure the firearm is cleared of any cartridge(s) that were involved in the malfunction incident.
  
- 6 If there are **ANY** questions or problems regarding a malfunction, be sure to contact us at Volquartsen Firearms.

## **BARREL CLEANING**

The barrel should be cleaned only from breech to muzzle using a pull-through cleaning system. Any use of a cleaning rod from the muzzle end will void the warranty and greatly affect accuracy.

We recommend that you clean the barrel approximately every 500-600 rounds.

It may be necessary to clean the chamber area on a more frequent basis using only a cotton swab.

# SUMMIT RIFLE

## AMMUNITION

Always wear protective shooting glasses and hearing protection when firing your Volquartsen Summit Rifle.

The use of incorrect ammunition or incorrect cartridge components can result in damage to the firearm, serious injury, or even death to the user. Use of incorrect ammunition can cause bore obstruction and will void the warranty.

### 17 Mach 2

Your Volquartsen Summit Rifle is designed to use 17 Mach 2 type ammunition.

### 22 LR

Your Volquartsen Summit Rifle is designed to use 22 Long Rifle (22 LR) type ammunition. CCI® Stinger ammo is **NOT** recommended for use in this rifle due to the oversized cartridge.

## ADDITIONAL INFORMATION



To learn more about cleaning and operating your Volquartsen Summit Rifle, visit our videos page at: [volquartsen.com/videos](http://volquartsen.com/videos)

If you have any problems or questions concerning your Volquartsen Summit Rifle, please do not hesitate to contact us at:

**Volquartsen Firearms**  
**PO Box 397**  
**24276 240<sup>th</sup> Street**  
**Carroll, IA 51401**

**712-792-4238**  
**[Volquartsen.com](http://Volquartsen.com)**



# GREAT ACCESSORIES FOR YOUR SUMMIT RIFLE

[VOLQUARTSEN.COM](http://VOLQUARTSEN.COM)

## BREAKTHROUGH® BATTLE ROPE™

The perfect on-the-go cleaning option for those needing a quick and efficient cleaning on the range. The integrated bronze brush scrubs away stubborn carbon, while the extra-thick rope wipes up residue.

## BREAKTHROUGH® ALL-IN-ONE CLP

This biosynthetic CLP is expertly crafted using the finest base oils, additives, and most effective solvents that modern chemistry has to offer. Providing superior 2-in-1 cleaning and lubrication; it removes carbon fouling, oil, and grime. While penetrating deep to provide protection from rust and corrosion, all while minimizing friction and wear from metal-to-metal contact.

## DELUXE RIFLE BAG

This bag features internal adjustable magazine pouches, dense foam padding, and heavy duty zippers. It has a heavy duty nylon exterior with an outside zippered pocket for additional magazines or gear.

## CLEANING MAT

The soft polyester top will ensure your gun doesn't get scratched while the neoprene rubber backing on the mat will keep everything in place and prevent your work surface from sliding around.





@volquartsen\_firearms



@volquartsen



@volquartsencustom



@volquartsenguns