



**CASCADE**  
BOLT-ACTION RIFLE™

OWNER'S MANUAL



It's Just A Better Gun™

# **CVA CASCADE™ INSTRUCTION MANUAL**

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## THE CASCADE CONCEPT

In designing the CVA Cascade, our goal was simply to build the best bolt-action hunting rifle in what we'd consider the "affordable class" – meaning: starting at around \$500. We also wanted to equip the gun with as many great features as possible, features that hunters and shooters would appreciate, but perhaps not expect in a gun in its price range.

Accomplishing all of this required taking a hard look at how modern-day hunters utilize their rifles. Suppressors and muzzle brakes are gaining popularity, so we threaded the Cascade's barrel so that installation of these devices would be simple and easy. We added an extra swivel stud to the fore-stock so that using a bi-pod is possible without detaching your sling. Our detachable magazine fits flush with the bottom of the stock yet holds more rounds than the competition, and it's spring-loaded for easy and quick removal. Plus, the Cascade's stock is adjustable to allow the removal of 1 inch of LOP, making it a perfect gun for young hunters – providing a rifle they can use now and forever. These and many more quality features, plus our MOA guarantee, firmly establish the Cascade as the new leader in practical hunting rifles.

Thank you for purchasing the CVA Cascade. If you read and precisely follow the instructions in this booklet, we are confident that you'll receive years of safe and reliable service from your new rifle.

### 1. GENERAL WARNINGS

This manual is furnished to assist you in learning to properly load, fire, and maintain your CVA Cascade™ rifle. Before handling and loading this rifle, please be sure to read this booklet in its entirety. No amount of engineering, precision manufacturing, or safety inspections can replace the common sense and safe gun handling practices for which you, as a gun owner, are solely responsible. Pay special attention to the warnings and cautions presented herein. Please be a responsible shooter and help to promote firearm safety by making yourself a safe example to others. If necessary, seek safety training from your local firearms dealer, hunter education instructor, or an experienced friend.

If, after reading the instructions, warnings, and risks detailed in this manual, you are still not ready or willing to accept the responsibility involved in handling and shooting a firearm safely, please return the unused gun to the place of purchase.

**⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For other information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

### 2. GENERAL FIREARMS SAFETY RULES

1. Read the Owner's Manual thoroughly and carefully. Become familiar with all of the features and functions of the firearm. Heed the safety warnings and follow the directions concerning the safe loading, unloading, and care of the gun.

2. Always keep the muzzle pointed in a safe direction, even when the gun is believed to be unloaded.
3. Keep fingers away from the trigger, and the safety in the “safe” position, until ready to fire the gun.
4. Be sure of the target and what is beyond it before aiming or firing.
5. Never trust the mechanical safety of any firearm. Mechanical devices can and do fail.
6. All firearms should remain unloaded until ready to be fired. Unload the gun whenever crossing difficult terrain, climbing fences, climbing into tree stands, etc.
7. ALWAYS use eye protection when loading, shooting, or cleaning a firearm.
8. Check that the barrel is free from any obstruction before loading and firing.
9. Handle all firearms as if they are loaded.
10. Store all firearms fully cleaned and unloaded in a secure, locked area separate from all ammunition and/or components of ammunition.
11. Do not consume alcohol or drugs before or while loading, shooting, or hunting with a firearm.
12. Do not alter the firearm. Have the gun serviced regularly by a qualified gunsmith or factory service center. Check all vital functions before each use.
13. Do not lean a firearm against a wall, a tree, a vehicle, or any other surface. A firearm that slides and falls may accidentally fire, potentially causing damage, injury, or death.
14. Do not transport a loaded firearm in a vehicle.
15. Do not load a firearm inside a house, tent, camper, vehicle, etc., or take a loaded firearm into such structures.
16. Do not allow children, or any inexperienced persons, unattended access to a firearm.
17. Do not attempt to modify any parts of the gun. Doing so may cause an accidental discharge and/or potential damage to the gun and/or injury or death to the shooter and/or by-standers. Also, unauthorized alterations may void the manufacturers’ warranty.
18. Only use ammunition that is of the same caliber and name as inscribed on the side of the barrel. It is possible that other caliber ammunition will fit into the chamber of the rifle, but this is extremely dangerous and should be avoided by carefully matching the ammo caliber to the rifle caliber.

### **3. BEFORE LOADING AND FIRING THE CASCADE™**

Familiarize yourself with the rifle and its functions. Learn how it works and handles **before** you attempt to load it. Below are the steps you should follow:

1. Read this entire manual carefully and completely paying close attention to the warnings and safety information.
2. The rifle comes coated in a heavy oil and with the bolt detached. Before installing the bolt, clean the outside of the rifle and the interior of the bore as described in the maintenance section of this manual. Visually inspect the barrel to be certain that there is no cartridge in the chamber and that there is nothing obstructing the bore.
3. Insert the bolt into the action as described in the maintenance section of this manual.

4. Check the trigger and safety for proper function. Dry fire the rifle several times, checking the function of the firing pin and safety each time.
5. Be certain that your ammunition caliber matches the inscription on the barrel.
6. After familiarizing yourself with the rifle, you may load and fire the rifle in a safe place.
7. If you have any questions or concerns, contact CVA Customer Service before proceeding.

#### 4. FEATURES OF THE CASCADE™

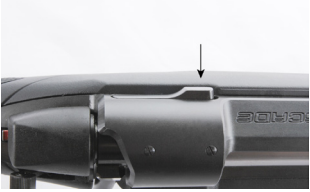


- A. Crushzone® Recoil Pad
- B. Cocking Indicator
- C. Safety
- D. Bolt Stop (Opposite Side)
- E. Barrel and Caliber Inscription
- F. Removable Stock Spacer
- G. Sling Mounting Stud
- H. Trigger
- I. Bolt / Bolt Handle
- J. Magazine Release (On the Underside)
- K. Sling and Bipod Mounting Studs
- L. Muzzle and Thread Cup

Operation of The Safety Lever



Removal of The Bolt Assembly



#### 5. MOUNTING A SCOPE ON THE CASCADE™

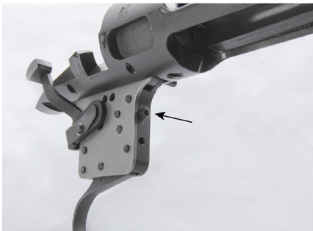
The Cascade™ is precision drilled and tapped for scope mounting and will accept any two-piece base made for the Savage Accutrigger centerfire rifle. This common base set is available almost anywhere that quality firearms are sold. For the best long-range performance, we recommend using a one-piece rail made to Picatinny specs with a 20MOA slant. If such a rail mount is not available in your area, it can be ordered at a reasonable price through CVA Customer Service or at CVA.com.

Equally important is a set of quality rings. Make sure the rings selected are heavy duty and fit the chosen base properly. Select a height that allows the scope to

sit as close to the barrel as possible, while still allowing for a proper field of view when looking through the scope. There are many manufacturers of scope bases and rings. Each manufacturer has its own specifications for installing the parts. Follow the manufacturer's instructions when installing, including the recommended torque settings for the screws (if provided).

## **6. ADJUSTING THE TRIGGER WEIGHT-OF-PULL OF THE CASCADE™**

The Cascade™ trigger is adjustable for the weight-of-pull. At the factory the pull weight is pre-set to approximately 3 pounds. The total range of adjustment is approximately 2- 4 pounds. To adjust the trigger, use a 5/32 inch or 4mm hex wrench to remove the 2 stock retaining screws from the trigger guard assembly. Remove the barrel and receiver from the stock and follow these steps:



1. Using a properly fitting hex wrench, turn the adjustment screw clockwise to raise the trigger pull weight or counterclockwise to reduce the trigger pull weight. Make small adjustments and test frequently, preferably with a trigger pull gage.

2. When satisfied with the trigger pull weight, operate the bolt vigorously and check for any failures. The cocking indicator should always be visible when

the bolt handle is lowered. If the firing pin falls when the bolt handle is lowered contact CVA Customer Service immediately.

3. Place the barrel and receiver back into the stock and tighten the retaining screws to 55 inch-pounds.

## **7. ADJUSTING THE STOCK OF THE CASCADE™**

The Cascade™ features a stock with a removable spacer, allowing you to adjust the length of pull from 13" to 14" to fit shooters of different statures.

- To remove the spacer, insert a lightly lubricated Philips-head screwdriver into one of the holes in the recoil pad and remove the screw, repeat with the other hole and remove the pad.
- Once the pad is removed, there are 2 additional screws that hold the spacer to the stock.
- After removing (or adding) the spacer, attach the pad to the stock using the original pad screws.

## **8. AMMUNITION**

CVA warrants the use of factory ammunition loaded to SAAMI specifications only. While many shooters and hunters participate in the practice of reloading ammunition, any damage resulting from the use of reloaded ammunition is not covered by the Limited Lifetime Warranty.

The use of military surplus ammunition, 7.62 NATO for example, in a rifle chambered for .308 Winchester, is also discouraged and not covered by the warranty.

## 9. TIPS FOR OPTIMAL PERFORMANCE WITH THE CASCADE™

- Read and understand this owner's manual. If you have questions, contact CVA Customer Service and resolve them.
- Use only fresh, factory loaded ammunition from reliable makers.
- Choose aftermarket accessories such as scopes, scope mounts and rings carefully. Remember – a chain is only as strong as its weakest link!
- Follow all instructions regarding proper barrel break-in, cleaning and torque settings as closely as possible.

## 10. BARREL BREAK-IN PROCEDURE

During the manufacturing process small, often microscopic tool marks and other imperfections may exist inside the bore of the barrel. A barrel break-in procedure helps to smooth and/or remove these imperfections and may result in improved performance down the road. A proper break-in almost always results in a barrel that fouls less and cleans easier. Our recommendation is:

- For the first 5 shots, clean the rifle after each shot and after the barrel cools.
- For the next 50 shots, clean the rifle after each 10 shots allowing the barrel to cool between shots.
- For the life of the barrel, clean carefully after each range or hunting trip. Avoid overheating the barrel.

## 11. LOADING AND FIRING THE CASCADE™

**⚠ Do not load the rifle until you have read and understood this manual. Do not load until you are ready to begin shooting. Unload the rifle when you are finished shooting. ALWAYS make sure that the barrel is clean and unobstructed before loading. Firing an obstructed barrel can lead to a barrel rupture and possible injury or death to the shooter and/or bystanders.**

1. Only load the rifle in a safe place and when you are ready to shoot or hunt. Consider what lies beyond the target before pulling the trigger, as bullets can easily penetrate targets and game animals and travel long distances before stopping.
2. Rotate the safety lever rearward to the safe position. Open the bolt and pull it to the rear.
3. Check the chamber of the barrel to be sure that it is not loaded.



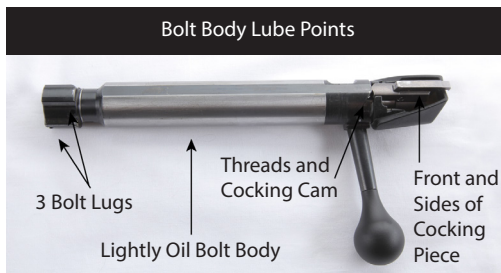
4. Remove the magazine by pressing the release located in front of the magazine.

5. Load cartridges into the magazine by pressing them straight down between the feed lips.
6. Insert the magazine into the rifle until the latch clicks and the magazine is secure.
7. Push the bolt forward, stripping the top cartridge from the magazine and into the chamber. At the forward end of the stroke, rotate the bolt handle down into the locked position.
8. Rotate the safety to the forward position and press the trigger gently to fire.

## 12. CLEANING AND MAINTAINING THE CASCADE™

**⚠ ALWAYS make sure that your Cascade™ is unloaded before leaving the range or the field. NEVER transport a loaded rifle in your vehicle or take a loaded rifle into the home. Before beginning your cleaning process, check again to be certain that the gun is unloaded.**

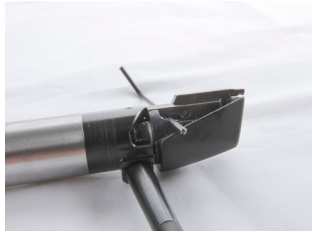
1. Rotate the safety lever rearward to the safe position.
2. Open the bolt and move it to the rear. Press the bolt stop, located on the left side of the receiver, and pull the bolt out of the receiver. Set aside.
3. Visually examine the barrel, looking through it from the breech end to ensure that there is no cartridge in the chamber or obstruction in the bore.
4. Use a good quality bore solvent and follow the manufacturer's instructions. If no instructions are given, use steps 5- 8 as a guideline for cleaning your barrel.
5. Using a good quality cleaning rod and the correct caliber jag and patch, push a single solvent-soaked patch through the bore from the breech end. Allow the solvent to work for a minute or two.
6. Place a dry patch on the cleaning jag and push it through the bore. Repeat several times until the patches come out relatively clean.
7. If the patches are not showing a clean barrel, or if they are not pushing smoothly through the bore, run a bronze cleaning brush through the bore and repeat steps 5 & 6.
8. When clean, run a patch with a small amount of oil through the barrel.
9. Using a paper towel or rag and some cotton swabs, thoroughly clean the bolt, paying special attention to the recessed bolt face where the extractor and ejector are located. Completely remove any fouling, rust or corrosion. Then, lube the bolt as illustrated below.



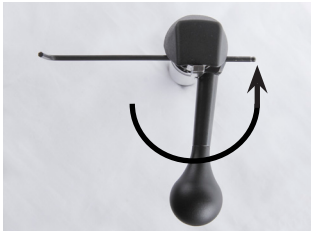
10. If you feel you need to disassemble the bolt, follow the steps below:



- Insert a strong pin, small Allen wrench or punch (a paper clip will not work here!) into the area shown



- Unscrew the firing pin assembly by turning the bolt shroud counterclockwise and remove the firing pin assembly from the bolt. Further disassembly is not recommended.



- Lubricate the bolt shroud threads and assemble in reverse order.
- The firing pin should sit at the top of the bolt cam notch as shown when complete.



11. If you have removed the stock while cleaning your rifle, tighten the retaining screws to 50 to 55 inch-pounds of torque during reassembly.
12. Insert the bolt into the receiver, close the bolt, and check the function of the trigger and safety. If you detect anything that is not as it should be, contact CVA customer Service immediately.

### 13. REPAIR AND SERVICE

In the case that your CVA Cascade™ rifle needs repair or service we recommend that you return it postage paid to our facility. This will assure that your rifle is worked on by trained, qualified gunsmiths who are familiar with all CVA firearms. We do not have approved gunsmiths outside our facilities and will not warrant the work of others. You should first contact CVA Customer Service by phone or through our web site to initiate the repair process. The Return Number and Return Authorization will be sent to you by email. Pack your rifle carefully with a copy of the Return Authorization and send postage-paid to the repair facility in your country.

**USA CUSTOMERS:**

BPI OUTDOORS  
ATTN: REPAIR DEPARTMENT  
1270 PROGRESS CENTER AVE, SUITE 100  
LAWRENCEVILLE, GA 30043  
770-449-4687  
<https://cva.com/help-center/>

**CANADIAN CUSTOMERS:**

GRECH OUTDOORS, INC  
115 FERGUS ST SOUTH  
MOUNT FOREST, ON N0G 2L2  
519-509-4867  
[www.grechoutdoors.com/warranty](http://www.grechoutdoors.com/warranty)

If you do not have email or cannot contact CVA prior to returning your rifle, be sure to include your name, address, best daytime phone number, and a detailed note regarding your repair. The Return Authorization will be generated when the rifle arrives, and we will contact you if needed. A slight delay in processing can be expected.

Individuals in the US are permitted to return their firearms directly to the manufacturer for repair. We can then return the firearm or a replacement directly to the individual.

Most small issues and concerns can be addressed with CVA Customer Service and resolved by phone, without the necessity of sending your rifle in for repair. Use the contact information above.

**14. LIMITED LIFETIME WARRANTY**

CVA warrants all factory-finished firearms to be free of defects in workmanship or materials for the lifetime of the firearm. This Limited Lifetime Warranty only applies to the original consumer owner. This warranty is put into effect by the return of the authorized warranty card within 15 days of purchase and is not transferable. To save time and postage, the warranty information may also be transmitted electronically via our web site at <https://cva.com/warranty/>

Any covered CVA firearm that is returned postage paid to the Repair Department will be repaired or replaced to our commercial standard, free of charge, and returned to the consumer postage prepaid. This warranty does not cover damage to structures, buildings, vehicles, persons or animals, or any other damage resulting from careless handling, improper loading, rust or corrosion, neglect, improper maintenance, or unauthorized repairs and modifications.

CVA reserves the right to refuse to repair or replace any firearm or parts damaged by any of the above. The warranty does not cover normal wear of any part, metal or stock finish, cost of inconvenience due to product failure, or transportation to the Repair Department.

State and Federal regulations and laws regarding the transportation and transfer of firearms will be strictly adhered to.

**BE SURE THAT THE GUN IS UNLOADED BEFORE SHIPPING! SHIPPING A LOADED FIREARM IS A CRIME.** It is not only unsafe and irresponsible to ship a loaded gun, *it is also violation of Federal Law that must be reported.*

This warranty gives you certain specific rights. You may also have other rights which vary from state to state. This warranty is void if:

- The firearm was fired with ammunition not matching the inscription on the barrel.
- The firearm was damaged while firing reloaded ammunition or military surplus ammunition.
- The firearm is returned in an abused or neglected condition (rusted, corroded, etc.)
- Any failures caused by or concerning any non-CVA OEM parts such as (but not limited to) a non-CVA barrel, bolt part, scope mounts, optics, bipod, etc.
- The firearm is damaged by a non-warranted condition, such as a drop or fall, or damage from some other source not related to the failure of a factory part.

## **15. VOLUNTARY RECALL OF CERTAIN CVA MUZZLELOADERS**

In August of 1997, CVA implemented a Voluntary Recall of all in-line muzzleloading rifle models with serial numbers ending in -95 or -96.

**Example of a recalled serial number: 61-13-XXXXXX-95**


If you, or someone you know, have a CVA in-line muzzleloader with such a serial number, do not use or allow anyone else to use the rifle under any circumstances. Call CVA immediately at 770-449-4687 or contact CVA Customer Service through the web site at <https://cva.com/help-center/> . You will receive complete instructions on how to receive a replacement gun at no charge.

In May of 1999, Blackpowder Products, Inc. purchased the assets of Connecticut Valley Arms, Inc. and now operates under the trade name of Connecticut Valley Arms and/or CVA. Any claims related to the above-described Voluntary Recall should be addressed to Connecticut Valley Arms, Inc. not to Blackpowder Products, Inc. Blackpowder Products, Inc assumes no responsibility for any products manufactured or sold prior to January 1, 1998.



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