

# In-Line Rifle Warranty Information

This book contains information critical to the safe use and maintenance of New Frontier muzzieloading fireams. YOU MUST READ THIS MATERIAL ENTIRELY AND FULLY UNDERSTAND THIS INFORMATION BEFORE YOU CAN SAFELY have any queetons. from our factory. Call New Frontier Customer Service at (770) 449-4687 if you vidual this book must accompany the firearm. Replacement books are available USE YOUR MUZZLELOADER. If firearm is loaned or sold by a dealer or indi-

# ANTY CARD (Please complete all sections)

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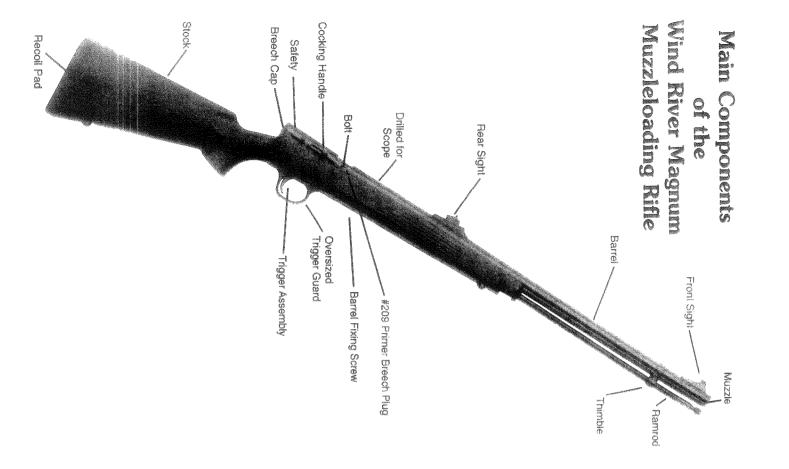
### Warranty Information

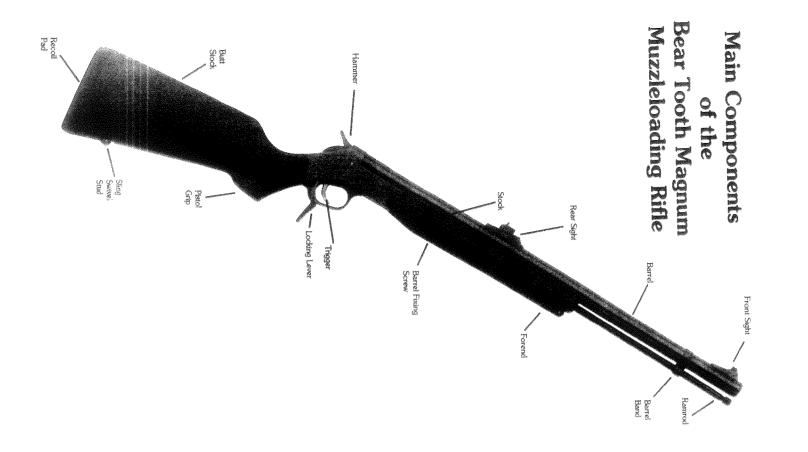
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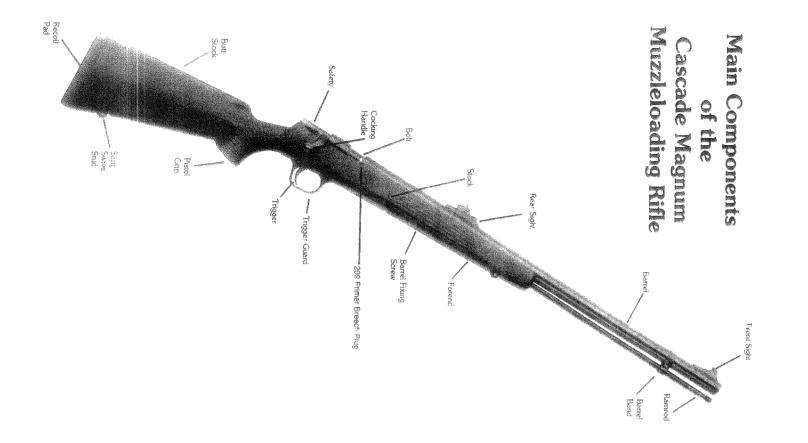
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have any questions or E-mail us at: info@BPIGuns.com Call New Frontier Customer Service at 770-449-4687 if you

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ALBRANG. THE INFORMATION LONTAINED IN THIS MATCHE IS OBTIOAL FOR THE PROPER USE AND OARE OF YOUR FIRMANAL TO LOAD OR FIRST NOT HAVE READ AND UNDERSTAND THE INFORMATION DESCRIBED IN THIS MANUAL.

for shooting and hunting. But, if abused, harmful consequences can result. Treat this muzzleloading firearm with the full respect due any firearm. When handled properly, a muzzleloader is a safe and enjoyable firearm All muzzleloading firearms, including In-Lines, are faithful to the original basic designs. For this reason, blackpowder guns cannot be made with many of the refinements and features that are standard on modern cartridge firearms. Shooters must remember that even now, despite the modern appearance of In-Line design rifles, there is no way to build a precautions and good judgement unique to all muzzleloading firearms muzzleloader that absolves the user from the need to use the special safety

e-mail our customer service department at 5988 Peachtree Corners East, Norcross, Georgia 30071; (770) 449-4687; info@BPIGuns.com. about safe use of your New Frontier Muzzleloading firearm, write, call, or firearm in its entirety to the place of purchase. If you have any questions involved in the safe handling and shooting of a muzzleloader, return the tained in this manual, you are not willing to accept the responsibilities NOTE: If after reading the instructions, cautions, and dangers con-

free of charge from New Frontier Muzzleloading. manual must accompany the firearm. Replacement books are available If you sell, trade, or give this firearm to any other person this owner's

# A. INTRODUCTION TO IN-LINE MUZZLELOADERS

In-Line design muzzleloaders are so described due to the fact that the ignition source (#11 percussion cap, musket cap or 209 primer) is located directly behind (or, in line with) the propellant charge. By contrast, side of the propellant charge. with sidelock design muzzleloaders the ignition source is positioned to the

Among the New Frontier in-line design muzzleloaders, there are three distinct categories of rifles which are differentiated by their cocking mechanisms:

- The Wind River Magnum is a "conventional in-line" and features a straight-pull cocking design. In this design the bolt stays in the cocked, or rearward, position until the trigger is pulled, releasing the bolt to spring forward and strike the primer.
- 2. The Cascade Magnum is a "bolt action in-line" and utilizes a bolt action style cocking mechanism similar to that of a modern centerfire rifle.
- The Bear Tooth Magnum is a "break-open in-line" wherein a lever (located alongside the trigger guard) actuates an internal locking mechanism allowing the rifle to pivot open at the breech.

### GETTING STARTED

- Safety First Verify gun is unloaded
- Assemble gun.
- Check all functions.
- Þ Remove breech plug (and nipple, if applicable).
- Clean and check entire gun.
- Clean barrel.
- 7 0 Apply breech plug/nippie grease or anti-seize compound to breech plug threads. Replace breech plug and nipple. Turn in until snug (do not overtighten).
- Read and study information booklet
- Understand terminology & procedures.
- Get all questions answered

fied hunter's safety course before using this muzzleloader or any other firearm. Consult your local Game & Fish authorities, The National Muzzle-For Safety: New Frontier Muzzieloading encourages that you take a certition on loading Rifle Association or your local sporting goods dealer for informathe courses available

# TEN COMMANDMENTS OF FIREARM SAFETY

- Always keep the gun muzzle pointed in a safe direction and never pull it towards you by the muzzle.
- WN Be sure of your target and beyond.
- Never rely on a gun's mechanical "safety".
- 4 Gun should be unloaded until ready to use
- Ó Always wear eye and ear protection.
- **ු** The barrel should be clear of obstruction before shooting
- Handle every gun as if it is loaded.
- Keep guns and ammo separate and in locked storage.
- Avoid alcoholic beverages and drugs before and during use of a fire-
- 10. Do not alter or modify your firearm. Have your firearm checked regularly by a competent gunsmith. Make sure all parts work properly.

or handling of ammunitions may cause exposure to lead or lead compounds. According to the state of California, exposure may cause cancer, birth de-Health Warning: Discharging of firearms in a poorty ventilated area and/ ammunition, or cleaning your firearm. Do not eat or smoke during these tion at all times. Be sure to wash hands thoroughly after shooting, handling fects, or other reproductive harm. Make sure that you have proper ventila-

# D. SAFETY CONSIDERATIONS UNIQUE TO MUZZLELOADERS

- Never smoke when shooting or handling a muzzleloader or related equipment. Ashes and/or loose sparks may cause powder or caps to ignite resulting in personal injury or death.
- muzzle are always a possibility with any muzzleloader. Always wear eye protection. Flying debris from the breech area and
- ω Never pour powder into a muzzleloader directly from a flask, horn or cause the container to explode any large volume, enclosed container. Hot embers in the barrel could
- D. shooting can cause accidental ignition of these devices. Follow all manuaway from the area where shooting is to be conducted. Sparks from facturers instructions for long term storage of powder, percussion caps All powder storage containers and percussion caps should be kept well
- O Use only Blackpowder or an approved blackpowder substitute in your muzzleloading firearms. The only approved blackpowder substitutes are Pyrodex and Pyrodex Pellets, Triple 7 Powder & Triple 7 Pellets, Pioneer Powder & Pioneer Powder Stix, Clean Shot Powder & Clean Shot smokeless powder in a muzzieloader will create dangerously high Pellets, and Clear Shot powder. NEVER USE MODERN SMOKELESS POWDER IN ANY MUZZLELOADER. The use of any amount of the shooter and/or bystanders, and will void the warranty. pressures upon ignition, may result in severe injury or death
- (ඊ) the gun to explode. loading. Check the barrel for any obstruction as any blockage may cause Always check to ensure that your muzzleloader is in good working condition before use. Test the bolt and safety mechanisms carefully prior to
- -Use only recommended loading data for the particular model of rifle in use. Different models have different powder charge and muzzleloading firearm may result in severe injury or death. projectile capabilities. Improper loading or overloading of a
- ĊO should always be removed when walking, climbing trees or fences, transferring the gun from one person to another, leaving the gun unattended, Never prime or cap a firearm until you are ready to fire. Primer/cap
- Ó Never lean or rest a loaded muzzieloader against a tree, wall, vehicle or other surface. Any fall of the loaded gun may cause accidental discharge resulting in severe injury or death to bystanders.
- 10. Never transport a loaded muzzleloader in any type of vehicle. A cap are removed muzzleloader is considered loaded until powder, bullet and percussion
- Never exchange a loaded muzzletoader with any other person. or doubleloading, which may cause severe injury or death the party who personally loaded or witnessed the loading of the muzzleloader should fire it. This practice will help prevent overloading

- 12. Never store a loaded muzzieloader. Muzzieloaders should be unloaded and cleaned (including Bolt Assembly) prior to any storage.
- ಥ Never load a muzzleloader without first making sure that it is unloaded
- Ā Exercise extreme caution when hunting from treestands with cidental discharge leading to severe injury or death. Be sure the primer/cap is removed whenever raising or lowering the firearm. muzzleloaders. The dropping of a loaded muzzleloader may cause ac-
- Never allow the hammer or bolt of a muzzleloader to rest against the cap. Any impact to the hammer or bolt could cause accidental discharge
- Ö Never rely upon a mechanical safety. Muzzleloaders should always be handled as if ready to fire, regardless of the safety systems employed
- Always use proper cleaning procedures. Firing of an improperly mainin severe injury or death. tained muzzleloader may lead to unsafe pressure conditions, resulting
- Make sure that the projectile is firmly seated against the powder charge "Short starting" of the projectile may cause the gun to explode.
- Ö Always keep the muzzle of the gun pointed in a safe direction while loading. Never lean over the muzzle while loading.

## M SPECIFIC CAUTIONS/RECOMMENDATIONS FOR THE USE OF NEW FRONTIER IN-LINE MUZZLELOADING FIREARMS

Read and understand the functions and terminology explained in this book before attempting to use your New Frontier muzzleloader. muzzleloader with intense respect for its firepower and potential danger you accept a set of demanding responsibilities. At all times handle your YOU ARE RESPONSIBLE FOR FIREARM SAFETYIAS a gun owner

- anh \* When selecting powder loads be sure to refer to the correct loading data in Section I.
- N "Magnum" loads for New Frontier in-lines are safe only when using pelletized powder. "Magnum" loads of loose blackpowder or loose blackpowder substitutes are inefficient and are not recommended.
- (2) sulting in explosion of the gun and severe injury to the shooter and Siepuratanders bullets may produce dangerously high pressure levels, possibly re loads, conical lead bullets should never exceed 400 grains. Heavier mum bullet weight should not exceed 300 grains. With loose powder and weight. When using saboted bullets and pelletized powder, maxi-Always follow recommended loading data when selecting bullet type
- burn of the entire powder charge. PowerBelt<sup>TW</sup> Bullets provide the tight gas seal necessary for efficient bullets are recommended when using New Fronte rifles
- O PowerBelt<sup>TM</sup> Bullets do not require cleaning after every shot. When be cleaned of powder fouling and plastic residue after each shot For maximum accuracy when shooting saboted bullets, the barrel must

- compromising accuracy. using PowerBelt<sup>TM</sup> Bullets, you can clean every 4 to 5 shots without
- > patched round ball loads Round ball and patch loads are not recommended for New Frontier In-Line rifles. The fast rate of rifling twist (1:28) associated with New Frontier In-Lines may not provide acceptable accuracy when using
- 00 Nevel use modern smokeless powder at any mix of smokeless pow-der, it insufficienceders. Such insulate loading of the fife may result in all explosion of the guin bausing severa injury of death in the shootel and by-standers.

## BASIC ACCESSORIES FOR A MUZZLELOADER

### LOADING ACCESSORIES

Propellant - Blackpowder or approved synthetic substitute such as Pyrodex, Triple 7, Clean Shot and Clear Shot. NEVER USE MODERN SMOKELESS POWDER.

Projectile - conical bullet, saboted bullet, or belted bullet.

the use of pelletized powder). Powder Flask - To transport and dispense powder (not required with Ignition Source - Percussion Cap, Musket Cap, or Modern 209 Primer.

with the use of pelletized powder). Powder Measure - To measure correct powder charge (not required

Bullet Starter - To "start" bullet down the barrel.

Preloaders - To hold premeasured powder charge and bullet for quick reloading. Capper - To carry and dispense percussion caps or 209 primers

N CLEANING ACCESSORIES

Solvent - Cleaning solution

Patches - For cleaning inside of barrel

Breech Plug Wrench - For removing breech plug and/or nipples (included with the purchase of all New Frontier in-line muzzleloaders) Nipple Wrench - For installing and removing nipple (if applicable)

Jag - Retains cleaning patch on end of ramrod

Bore Brush - Scours the bore and removes heavy fouling

### G. PROPELLANTS

WARNING: NEVER USE MODERN SMOKELESS POWDER IN ANY MODIZLELGADER. The use of any amount of smokeless powder in a multipleioaper will prease dangerously high pressures upon ignition, may result in severe injury or death to the shooter and/or bystangers, and will rold the warranty

Only six types of propellant are acceptable for use in New Fronties muzzleloading firearms.

the smokeless propellants manufactured for modern cartridges or shot-gur shells are also black in color, but will create extremely dangerous pressures in the muzzleloading barrels.) The first type is BLACKPOWDER. (IMPORTANT) The term "black refers to the formulation of the propellant, not the color, Many of

### FFG BLACKPOWDER

(Commonly called Double "F") This is the genuine, old fashioned blackpowder. Although other granulations of blackpowder are availble, FFG is the only granulation to be used in the New Frontier in-line muzzleloaders. Blackpowder is measured by volume, rather than by weight, using a volumetric type measure.

proved grades are listed below: mately the same velocities and pressures as blackpowder. Pyrodex is currently offered as granulated powder or compressed pellets. The ap-The second type of propellant acceptable for use in New Frontier muzzleloading firearms is PYRODEX. Pyrodex is a propellant designed for use in percussion rifles, pistols and shotguns found to be in good shootappropriate granulation. Used in this manner, Pyrodex will yield approxicharge which is ballistically similar to 100 grains of blackpowder of the blackpowder will dispense roughly 72 grains of Pyrodex (Pyrodex is bulkier). This lighter charge weight of Pyrodex will fill the measure and provide a other words, a volumetric type measure set to dispense 100 grains of powder on a volume to volume basis, but not the weight of the charge. In ing condition by a competent gunsmith. Pyrodex relates closely to black-

#### TYRODEX RS

PYRODEX SELECT

(rifle & shotgun) Designed for use in all callbers of percussion muzzleloading rifles and shotguns. Has similar loading characteristics to Pyrodex RS, but is a "match grade" propellent yeilding greater consistancy and accuracy.

#### THOSEX BELLEV

Are a premeasured and preformed version of loose Pyrodex powder. Pyrodex Peliets are available for a variety of calibers and may be combined into multiple pellet loads to create several different grain-equivalent loads.

The other four brands of approved blackpowder substitutes include Clean Shot Powder & Clean Shot Pellets, Clear Shot Powder, Pioneer Powder & Pioneer Powder Stix, and Triple 7 Powder & Triple 7 Pellets.

Pyrodex Pellets and Triple 7 Pellets are the only propellants which can be used to create "magnum" loads for New Frontier "magnum" ca-

pable in-line rilles.

cal department listed on the product label. specific propellent you are using, or contact the customer service/techni-Please refer to powder manufacturer's written instructions for the

### PROJECTIES

result when used with our recommended powder charges and projectiles PowerBelt<sup>TM</sup> Bullets are the recommended projectile for use in all New Frontier in-line rifles. New Frontier bore diameters have been carefully matched with PowerBelt<sup>TM</sup> Bullet diameters to provide a safe optimum in the appropriate caliber.

EVICE OF STREET SHOWS A SHOW SHOW TE MUZZLELOADING PROJECTILES MUST BEMADE FROM PURE LEAD. LINOTYPE OR WHEEL IGHT LEAD'S CONTAIN AVTINON WHICH GREATES AN EXTREMEN HARD. OVERSIZED PRO-

Ze¥ saboted bullets, can produce high barrel pressures creating unsafe condimail us at info@BPIGuns.com. tions. If you have questions concerning approved projectiles, contact the Some projectiles produced by other manufacturers, Frontier customer service department at 5988 Peachtree Corners, Norcross, Georgia 30071; 770-449-4687 or fax 770-242-8546, or Eespecially some

## POWERBELT TABLLETS

PowerBelt<sup>TM</sup> Bullets are easy to load ates a perfect gas seal, providing Bullet's patented snap-on base creor "belt" provides a perfect gas seal, passed accuracy. But unlike sabots consistent pressures and unsureliminating accuracy robbing blowjectiles with a plastic base. The base PowerBelt<sup>TM</sup> Bullets are conical pro-Like sabots, the PowerBeltim

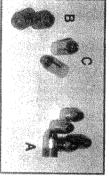


Figure 1A-C

variety of grain weights. They are the #1 selling muzzleloading bullet on the market and receive our highest reccommendation for New Frontier muzzieloaders. copper coated or pure lead, with hollow points or AeroTips, and in a loader. PowerBell Bullets are available in .45, .50, and .54 calibers sized, so you get the most knock down power possible out of a muzzle and do not require cleaning after every shot. And they are full calibe (Figure 1-A)

- N in New Frontier Muzzleloaders as well as increased knock down power desired by hunters. These projectiles are best suited for use in barrels with medium to fast twist rifling which stabilize the bullet more rapidly. CONICAL BULLETS Conical bullets provide acceptable accuracy
- Ç SABOTED BULLETS—Modern sabots from various manufacturers mendations for usage. Caution: Do not use a saboted bullet weigh-Muzzleloaders when complying with the sabot manufacturer's recomhave been tested and provide acceptable accuracy in New Frontier

and will result in very poor accuracy. in-lines. ing more than 300 grains. (Figure 1-C)
e: Patched round balls are not recommended for use in New Frontier This is because the twist rate is too fast to stabilize a round ball

recommended in Table 1. Loads for conical bullets and sabots should not exceed the maximum load

# I. RECOMMENDED LOADING DATA

on the same exact load sures below the maximum safe levels. NOTE: Rarely do two rifles settle which provides consistent ignition and velocity while keeping breech pres-The proper charge for any muzzleloading firearm is an efficient load

shown that heavier loads increase breech pressures while providing only using a charge in the middle of the recommended range, gradually ina minor increase in velocity. These tests also indicate that heavier loads creasing or decreasing the load to obtain the desired results. Tests have The shooter should load using the minimum and maximum charge limitations shown in the table below. It is recommended to begin shooting may be less accurate

FIREARM	PROJECTILE	Z Š	CHARGES IN GRAINS MINIMUM MAXIM	RAXINUM RAXINUM
Š	.50 Conical	Powder FFG	5	8
â	.45 PowerBell W/Saboled	Powder FFG	8	8
Ė	.50 PowerBell 114/Saboled	Towder TEG	8	3
Cri	.45 PowerBelt "V/Saboled	7000	8	0
ë	SO PowerBell IN/Saboled		S	8
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months of the company	Control of the Contro			

TARRET CALACTA TIME. Warning: This is a "Magnum" charge and can only be safely used in accrum calcable rifles. All New Frontier in-line rifles are magnum baare magnum

pable. DO NOT attempt to use these loads in in-line rifles not listed to be manufacturer as magnum capable, or in side lock rifles.

## NUX LELOADERS J. LOADING AND SHOOTING NEW FRONTIER IN-LINE

- Wear shatterproof shooting glasses and ear plugs or muffs to protect yourself from sparks, bits of fragmented caps, and hearing loss.
- Verify the rifle is not loaded.
- a. Place ramrod down the barrel to breech plug and mark ramrod at Step 8) ramrod that must be in the extended position for this step. (Sec. Q the muzzle. NOTE: The Bear Tooth Magnum has an extendable
- Ö Remove ramrod and lay along outside of barrel, lining up mark at
- O before proceeding. The end should be at the base of the breech plug. If rod does not line up, assume the rifle is loaded and that it should be unloaded
- snugly screwed into place. Do not overtighten. Note: Make sure breech plug grease or anti-sieze has been applied to all threads of the breech plug and nipple (if applicable). Check to make sure that breech plug and nipple (if applicable) are snugly screwed into place. Do not overtighten. Note: Make sure
- À On Cascade and Wind River rifles, confirm that the safety is in the that does not require manual setting. "safe" position (green dot). Insure the trigger does not release the bolt. The Bear Tooth rifle features an automatic, internal transfer-bar safety
- Clean all oil and grease from barrel interior.
- (D) With the rifle pointed in a safe direction, place a 209 primer into the breech plug or a percussion cap on the nipple (if rifle has been adapted to shoot percussion caps)

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AUTION. Use a capper op ace cap on the rupple as percuss on caps are sens twe top ressure and

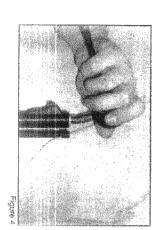
- 100 NIPPLE THAT WILL NOT BE COVERED UNDER WARRANTY. INSURE BOYE and nipple are dry of solvent or moisture. NEVER DRY FIRE ANY NEW FRONTIER MUZZLELOADER. DOING SO WILL RESULT IN DAMAGE TO THE FIRING MECHANISM AND/OR Release the safety and fire a minimum of 3 caps or shotgun primers to insure bore and nipple are dry of solvent or moisture. NEVER DRY
- (0) 9 if using pelletized powder. If using powder, pour powder from flask into a volumetric powder measure that is set for correct powder charge. (See Figure 2). Skip to step
- $\odot$ the gun, pour a measured charge or drop the correct number of pellets down the barrel. (See suitable charges Table 1, Page 8, Figure 3) With the muzzle pointed "up" and no part of your body extended over

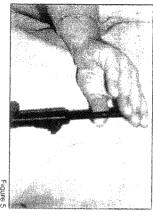




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- 10. If using loose powder, slap side of barrel in front of receiver. This will help insure that powder will fully enter the breech and nipple area.
- 11. For Lubricated Bullets, PowerBelt<sup>TM</sup> Bullet or Saboted Bullet:
- a. Make sure bullet is lubricated. PowerBelt™ Bullets and saboted bullets do not require additional lubrication.
- b. Start the projectile into the bore with your fingers, making sure it is centered
- Figure 4). Use short end of bullet starter to press bullet just into muzzle. (See
- 12. Use longer end of ball starter to move projectile about six inches down the bore. (See Figure 5).
- IMPORTANT: Be sure projectile is seated firmly against powder. No air space should exist between projectile and powder. 13. With ramrod, push projectile down on top of powder, firmly, but without crushing the powder or pellets.







CAUTION. When using the ramost never grabit more than 8 inches above the muzzle. To do so could cause alside stess, break the ramost landpossibly puncture your hand.

- 4 WITH GUN POINTED IN SAFE DIRECTION and firing mechanism open, place a 209 primer into the breech plug. If using percussion caps, place the cap onto the nipple. THE GUN IS NOW LOADED. (See Figure 6).
- Ö Aim at target and release the safety (cock hammer on Bear Tooth ). YOU ARE NOW READY TO FIRE.
- 16. Squeeze trigger to fire.
- 17. After firing, wait one minute to reload. This allows all remaining sparks in barrel to burn out prior to reloading.
- 18. If a misfire or failure to fire occurs, wait at least one minute with the gun pointed at the target.
- a. Make sure the bullet is seated on the powder charge. ē primer or percussion cap in the breech. Be certain of the target and Install a new

## CAUTION. Wart at least one minute with gun pointed at larget it mistire or failure to fre occurs

- Ò Removing A Charge, for detailed procedure der charge, and push the projectile out of the barrel. See Section R, Never attempt to shoot out a projectile which is not firmly seated against powder charge. Remove the breech plug, remove the pow-
- 0 Go back to Step 1 and repeat, being sure bore and nipple are clean and free of obstructions and moisture

## SOUTH SET ON ON THE SET ON ON THE SET ON ON THE SET ON ON THE SET ON THE SET

loose powder or Pelletized Powder. most reliable ignition source in foul weather and is suitable for use with shotgun primers. This ignition source is the primary ignition source to be used in all New Frontier Muzzleloaders. The shotgun primer is the #208 SHOTGUN PRIMER IGNITION SYSTEM Accepts modern #208

N nipple combination is substituted for the standard 209 breechplug with no other changes required. This conversion adapts the rifle for reliable ignition using #11 percussion caps or musket caps. Contact New is available for Wind River and Cascade owners hunting in areas where the #209 shotgun primer is prohibited by law. A new breechplug and PERCUSSION CAP IGNITION SYSTEM An optional ignition system Frontier Customer Service at 770-449-4687 to order.

### SAFETY SYSTEMS

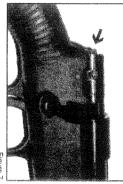
ASNING Never rely on any mechanical safety.

All Wind River Magnum and Cascade Magnum rifles are equipped

engaged to the rearward (green) position for safe setting (Fig. 7). Move the safety button to it's forward (red) posiwith a thumb actuated trigger blocking safety. The safety should be manually

the rear. No other external safety is needed primer unless the trigger is held fully to vents the firing pin from contacting the tuated transfer-bar system that prerifle features an automatic, trigger ac-The Bear Tooth Magnum break-action

N



Ç Reminder: A manual safety is no substitute for safe gun handling!

# M. CONVENTIONAL IN-LINE DISASSEMBLY/ASSEMBLY FOR CLEANING AND MAINTENANCE. (FIGURE 8)

num proceed directly to section N. For Bear Tooth Magnum proceed directly to section P. Before beginning this procedure make sure gun is NOTE: For Wind River Magnum Muzzleloaders only. For Cascade Magunloaded. (See Step 2 of Section J).

- Remove ramned from gun.
- NO from the underside of the stock Loosen and remove the hex screw
- 00 Remove the barrel/receiver assembly from the stock.
- The come and remove the call at the THE RESIDENCE CONTROL CONTROL



- (J) (J) Remove the bolt spring.
- to the side. Remove the handle from the percussion bolt by pulling it straight out

- $\geq$ the rear of the receiver. While depressing the trigger, remove the bolt by sliding out through
- 00 Remove the breech plug and nipple (if applicable) with the Breech Plug/Nipple Wrench tool supplied. The slotted end removes the nipple and the screw driver end removes the breech plug. The 5" steel rod slides through the Breech Plug/Nipple Wrench tool body acting as a
- (0 Clean barrel according to instructions found in General Cleaning and using modem 209 primers. remove breech plug assembly and clean thououghly, especially when Maintenance Section (Section Q). After each session it is critical to
- Ö Do not attempt to disassemble the trigger assembly. Clean as a one-
- .....h. Avoid prolonged contact of cleaning solvents on synthetic stocks
- Ŋ IMPORTANT-LUBRICATE BREECH PLUG AND NIPPLE THREADS WITH BREECH PLUG/NIPPLE GREASE (OR AN ANTI-SEIZE COM-POUND) BEFORE REINSTALLING. NOTE: Check breech plug for snug fit with wrench before firing. Do not overtighten plug. Reassemble the rifle by reversing the order of disassembly.
- Preparation Before Loading
- a. Insure no obstructions are present in the barrel.
- b.Insure barrel is clean and dry before loading. Fire several caps or ture or solvent remaining in the barrel. primers through the rifle before loading powder to eliminate any mois-
- c. Insure bolt locks in place to the rear and be certain safety is engaged. Insure the trigger does not activate the bolt before placing a primer in the breech plug.

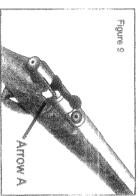
DO NOT ATTEMPT TO USE THIS RIFLE IF ANY OF THE SAFETY MECHANISMS DO NOT OPERATE PROPERLY, CHECK WITH A COMPETENT GUNSMITH OR NEW FRONTIER CUSTOMER SERVICE TO CORRECT THE PROBLEM, AS ACCIDENTAL FIRING MAY RESULT.

# FROM THE RECEIVER

beginning this procedure make sure gun is unloaded. (See Step 2 of Section J.). NOTE: For Cascade Magnum Bolt Action Muzzleloaders only. Delore

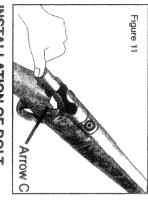
#### BOLT REMOVAL

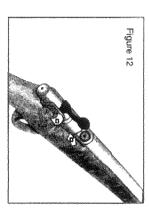
- and back position. Then, as per arrow "A" press down on the bolt handle (Figure 9).
- Maintaining downward pressure on the bolt handle (as described in Step



1), pull the bolt assembly rearward, as per arrow "B". The entire bolt assembly will now pull free from the receiver (Figure 10).







### NOTALLATION OF BOLT

- With the Bolt Assembly in the cocked position, align the bolt assembly in the same position as when removed in Figure 14. Using the thumb, push forward on the Bolt Cap, past the initial resistance, until the Bolt
- Assembly stops (Figure 11). Cycle the Bolt Handle up, as per arrow "C". Then forward, as per arrow "D" (Figure 12).

## え の O. BOLT ACTION DISASSEMBLY / ASSEMBLY AND CLEAN-

tion J. NOTE: For Cascade Magnum Bolt Action Muzzleloaders only. Before beginning this procedure make sure gun is unloaded (See step 2 of Sec-

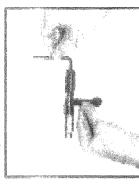


Figure 13



Figure 14

- in in Check to ensure gun is unloaded.
- Remove bolt from receiver.

- $\dot{\omega}$ Using the allen wrench provided unscrew the bolt cap by turning will now come apart (Figure 13). striker, bolt handle, and bolt body counterclockwise. The spring,
- A. all parts, then lubricate with a non-Clean all bolt parts thoroughly, dry petroleum based gun oil.
- O Reassemble bolt body, bolt handle striker, and spring (Figure 14)

Figure 15

- $\bigcirc$ Move bolt to the uncocked position
- -Place the bolt cap back over the spring. While pressing the spring downward, screw the bolt cap on to the bolt body. (See Figure 15)
- 00 Holding the bolt cap securely with the allen wrench, twist the bolt handle counter clockwise to the cocked position.
- (0 Return bolt to receiver as described in section N.

# BREAK ACTION DISASSEMBLY ASSEMBLY AND CLEANING

NOTE: For Bear Tooth Magnum Muzzleloaders only. Before beg this procedure make sure gun is unloaded. (See Step 2 of Section T) Before beginning

- e donn Remove ramnod from gun.
- Loosen and remove the screw from the bottom of the fore end
- Ņ You can now remove the fore end from the barrel.
- Open the action by pulling rearward on the locking lever.
- Remove the breech plug using the supplied breech plug wrench. The barrel may now be removed from the receiver.
- 40040 Clean barrel according to instruction found in General Cleaning and
- Maintenance Section (Section Q). Wipe out the barrel recess and breech face in the receiver with solvent.
- Do not attempt to dissassemble receiver. Clean as a unit.
- တ္ထ Reassemble in reverse order. Important - Lubricate breech plug threads with Breech Plug Grease or anti-seize before reinstalling. NOTE: Do not overtighten plug.

# GENERAL CLEANING AND MAINTENANCE

fore, careful cleaning of your muzzleloading firearm is extremely important. If left uncleaned for any length of time the fouling will cause rust, pits, and degradation of the metal particularly around threaded areas Blackpowder and blackpowder substitutes are very corrosive. There-

- Verify that gun is unloaded. (Section J, Step 2)
- N Remove cocking mechanism from gun as described in section M for Conventional In-Lines and section N for Bolt Action In-Lines.
- (4) plug. Turn counterclockwise to remove Insert breech plug tool (provided) into the receiver to engage the breech

- A all rust preventative oils and/or fouling. Important - I plug threads with Breech Plug Grease or anti-seize ing. NCTE: Do not overtighten plug. Using a cleaning brush and solvent, thoroughly clean breech plug of Do not overtighten plug important - Lubricate breech before reinstall-
- On Loosen and remove the retention screw from the underside of the
- You will now be able to separate the stock from the barrel
- ~ o (Cascade and Wind River rifles only) Remove the trigger mounting screws and lift the one-piece trigger from the receiver. Note: For a light field cleaning this process is not necessary.
- 00 from the muzzle best results, use a range or cleaning rod that allows greater clearance patches and cleaning solvent until all residue has been removed. For Attach the cleaning jag (provided) to the ramrod. Swab the barrel with
- turning counter-clockwise until the extended jag locks into place the rod until a second set of threads engages the rod end. The ramrod on the Bear Tooth Magnum features a unique extendable jag to aid in cleaning the barrel. This is deployed by unscrewing the jag until an un-threaded shaft is visible. Pull the jag and shaft out from Continue
- (0) and barrel cleaning solvent. Clean the breech area, including receiver threads, with a breech brush
- Š Dry all parts thoroughly, including the inside and outside of the barrel and spray with a light coating of non-petroleum based gun oil
- anak e Reassemble the gun components in reverse order

Note: Always store your muzzleloader unloaded and in a cool dry place

## RIMBOYENG A CHARGII

by firing it into a suitable and safe backstop. There are, however, some conditions under which the firearm cannot be fired and the charge must be removed. Under normal conditions a muzzleloading firearm is unloaded simply iring it into a suitable and safe backstop. There are, however, some

# THE TWO MOST COMMON CONDITIONS ARE AS FOLLOWS:

- If the projectile cannot be seated firmly against the powder charge, stop immediately! Do not attempt to fire the rifle! You must remove the charge and clean the barrel.
- 1/3 If the rifle is loaded in a proper manner yet fails to fire after repeated

attempts (as explained in the "Loading and Shooting" Section).

NEVER A TEMPT TO PULL A CHARGE UNTIL THE POWDER HAS BEEN SATER.

NATER.

behind the projectile. Two approved methods to remove a projectile from the barrel are to: (1) Use a CO<sub>2</sub> discharger to blow the projectile from the Removing a projectile is dangerous when there is a powder charge

from the breech forward and out the muzzle of the barrel. (see section Q). Empty the powder into a safe container. Using the ramrod and cleaning jag with a solvent soaked cleaning patch, push the projectile barrel or (2) With the muzzle in a safe direction, and the primer removed from the breech plug, remove the breech plug using the breech plug wrench

the firearn. barrel and parts After the projectile has been removed from the bore, clean the bore as explained in the "Cleaning" section and reassemble

Smith the powder has been rendered inert, take the barrel to a qualified gun-If for any reason you are unable to remove the charge in the manner recommended, soak the barrel in very hot water for one-half hour. Once

## O SOLI POLICIEMNIO

~ B Most New Frontier rifles are equipped with adjustable style rifle sights for windage and elevation. Exceptions include "slick barrels" that are sold a scope combination package.

- Adjust the rear sight for elevation by loosening the elevation retaining screw located on the side of the rear sight. REMEMBER: Slide the sight up the ramp to raise the point of impact and down the ramp to lower the point of impact.
- N Adjust the rear sight for windage by loosening the windage retaining screw on the top of the rear sight. REMEMBER: To move the point of impact to the right, move rear sight to the right. To move the point of impact to the left, move rear sight to the left.

### TOCOPH ROCKING

New Frontier Muzzleloaders are drilled and tapped for easy scope installation. Mounts and rings are available from your local dealer or from New Frontier Muzzleloading. Do not drill additional holes in the barrel as this could weaken its structure, causing injury and/or death and will void the warranty. Scopes should be mounted according to manufacturer's instructions.

loader is The recommended scope mount system for the New Frontier Muzzleer is the CVA Universal Scope Mount. The part numbers are:

AC1668 Low Mount Black AC1669 Low Mount Silver AC1666 See-Thru Black AC1667 See-Thru Silver

SOLL SIÑE You may also use the Weaver #418-M base (2 required) along with Weaver-

#### 

This gun is classified as a firearm or dangerous weapon and is sold by us with the express understanding that we assume no liability for its resale and unsafe handling under local laws and regulations. Blackpowder Products, Inc. and New Frontier Muzzleloading assume no responsibility for

physical injury or property damage resulting from intentional or accidental discharge, or the function of any gun subject to influences beyond our control. We will honor no claim which was the result of careless or improper handling, unauthorized adjustment, unauthorized modification of firearm, improper loading, use of improper powder or components, corrotice and proper loading, use of improper powder or components, corrotice and proper loading. sion or neglect

immediately. For your protection, examine this firearm carefully at the time of purchase. If any unsafe condition exists contact New Frontier Muzzleloading

New Frontier Muzzleloading does not recommend or approve of any custom alteration or conversion. Firearms subjected to alteration are not covered by factory warranty. Responsibility for these alterations rests totally with the individual performing such work. Any such work done improperly or without proper judgement may cause malfunction or damage resulting in injury or death to the shooter and/or bystanders.

### (770) 449-4687 MON-FRI 8:30 - 4:00 PM EST info@bpiguns.com

Should your New Frontier Muzzleloader require repair, we recommend that it be returned to our Warranty Repair Center. This will insure all work is performed by a competent staff of trained technicians.

Any firearm returned to the repair center should be marked to the attention of the Repair Department. A letter of instructions should be enclosed to facilitate handling. Please be sure to include name, address and day-time phone number. All firearms must be unloaded and shipped via United Parcel Service (UPS)

Our Service Department will inspect and evaluate the problem. Should any work required not be covered by warranty, you will be advised of the cost. No work will be done without your approval.

# W. ORDERING INSTRUCTIONS FOR REPLACEMENT PARTS

All correspondence and orders must be addressed to:

New Frontier Muzzleloading 5988 Peachtree Comers East

Norcross, GA 30071

info@bpiguns.com

Attention: Customer Service

N. Include in the order:

Model of Gun

Pan Number

Par Description

- (4) If the proper part identification is not possible from the parts list, send the specific part in question to aid identification.
- D. Discontinued items are subject to availability. New Frontier Muzzleloading will reserve the right to make compatible substitutions when neces-

- Enclose the total retail price of the item plus postage and handling. Refer to the chart to determine this.
- 6. Please allow four to six weeks from receipt of order for delivery.

## POSTAGE & HANDLING CHART

# X. LIMITED LIFETIME WARRANTY

New Frontier Muzzleloading warrants all factory finished firearms to be free of defects in material or workmanship, for the lifetime of the firearm, to the original consumer owner. This warranty is established by return of the authorized warranty card within fifteen (15) days of purchase, and is not transferable.

Any New Frontier Muzzleloader or part thereof returned postage paid to the address below will be repaired or replaced to our commercial standard, free of charge, and returned to the purchaser postage prepaid. This warranty does not cover any damage resulting from careless handling, improper loading, corrosion, neglect, or customer alteration. Nor does it cover normal wear of any part, metal or wood finish, cost of inconvenience due to product failure, or transportation damage.

New Frontier Muzzleloading reserves the right to refuse to repair or replace firearms or parts thereof damaged by the above.

rights which vary from state to state This warranty gives you specific legal rights. You may also have other

This warranty is void if:

- 0 Any propellant other than the correct type blackpowder or Blackpowder Substitute has been used.
- New Frontier recommended powder charge has been exceeded.
- Any form of plastic patch has been used. (modern day sabots or PowerBelts $^{\text{TM}}$  not included)

Address all inquiries and correspondence to

New Frontier Muzzleloading

5988 Peachtree Corners East

Norcross, GA 30071

FIG & BT QUINS. COM

Attn: Customer Service Department