

# **KNIGHT<sup>®</sup>**

## **Born to Hunt<sup>™</sup>**

© 02/1993 Original Print Date

**Manual for Models:** MK-85  
BK-92  
LK-93 Knight Legend

**Please Note:** Contact information, part numbers, part pricing, and part availability may differ from what is printed.

Please direct all customer service inquiries to the contacts below.

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# INSTRUCTION AND SAFETY MANUAL

## KNIGHT RIFLES - HUNT WITH THE LEGEND



- Muzzleloading Firearms are dangerous weapons -  
Read the instructions and warnings in this manual  
thoroughly and carefully before using this firearm

This instruction manual should always accompany this firearm and be transferred with it upon change of ownership, or when the firearm is loaned or presented to another person.

A copy of this instruction manual is available from the factory.

This instruction manual contains important warnings which must be understood before using Knight Firearms.

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## **A Brief History About Knight Firearms and Modern Muzzle Loading, Inc.**

Inventor and developer of Knight Firearms is William A. Knight; "Tony," as he is known by those close to him, has been a gunsmith practically all his life. Early on, hard work and dedication molded a craftsman that was destined to change the muzzleloading industry.

Tony served his country in the U.S. Army Infantry, saw active duty in Vietnam, and was awarded the Bronze Star and the Purple Heart. Upon returning, he worked his way up through the ranks of the railroad, retiring to do what he loved best...gunsmithing and hunting.

After opening his own gunsmith shop, he quickly became well known for his customization and rebuilding of the Remington Model 600 and compound bows. He designed and built his own bow press and for a long time had the only bow press for miles.

It was during this time that Missouri hunters in Schuyler and Putnam Counties started talking with Tony about the problems they were having with their muzzleloaders. They didn't necessarily want a "traditional" muzzleloading firearm. They wanted a firearm that was dependable, easy to clean, lightweight, weather resistant, and above all, accurate. Tony listened! In 1983, a new design was in the mind of William A. Knight. In 1985, the MK-85 Rifle, named after that year and his daughter, Michelle, was a reality. After 10 prototypes and years of development and testing, the Ultimate Muzzle Loading Rifle was in limited production.

The MK-85 was met with instant acceptance by muzzleloading hunters that wanted a high quality big game hunting rifle.

Keeping with tradition, the Knight Helmet, MML's Logo, bears the profile of Tony's son Bill.

You too are now part of Modern Muzzle Loading's family. You now own the tradition of the past and the technology of the future...a Knight Firearm. Built by a hunter and craftsman that listened to you, and made your dreams a reality.

We at Modern Muzzle Loading, Inc. are still listening. Knight Firearms are being built for you the hunter. Laminated and Composite Stocks, Rifle Grade Steels, Premium Quality Barrels, Adjustable Sights, Additional Drilled and Tapped Sight Mounting Holes, Stainless Steel Hammers and Breech Plugs, have been added at your request. Of course, you can always count on our Accu-Precision™ Premium Quality barrel, patented Sure-Fire™ In-Line Ignition System, Double Safety System™, Accu-Light™ Trigger, High Tensile Strength Ramrod, and Modern Muzzle Loading's High Standards of Quality.

When the hunt of a lifetime is at stake, you can only afford to have the best. Enjoy your new Knight Firearm...it is truly "A GENERATION AHEAD".©

### **Introduction**

CONGRATULATIONS! You have just purchased the most advanced muzzleloading firearm in the world. KNIGHT FIREARMS from MODERN MUZZLE LOADING, INC. are designed and produced to give you the safest, most accurate, most reliable, and easy to maintain muzzleloading firearm today. When the hunt of a lifetime is at stake, you can only afford to have the best...KNIGHT FIREARMS, "A GENERATION AHEAD."©

We hope that you derive many hours of shooting and hunting pleasure from your new KNIGHT FIREARM and look forward to your letters and pictures of trophies taken in the great hunting world of muzzleloading.

## Notice

MUZZLELOADERS are classified as DANGEROUS WEAPONS and are sold by us with the specific understanding that we are not responsible in any manner whatsoever for their safe handling or resale under local, state, and federal laws and regulations. MODERN MUZZLE LOADING, INC. shall not be responsible in any manner whatsoever for malfunctioning of the firearm, for physical injury, or for property damage resulting in whole or in part from:

- (1) Intentional or negligent discharge
- (2) Improper or careless handling
- (3) Unauthorized modifications
- (4) Defective or improperly loaded powder or projectile
- (5) Corrosion
- (6) Neglect
- (7) Other influences beyond our direct and immediate control.

This limitation applies regardless of whether liability is asserted on the basis of contract, negligence, or strict liability (including any failure to warn). Under no circumstances shall MODERN MUZZLE LOADING, INC. be liable for incidental or consequential damages, such as loss of use of property, commercial loss and loss of earnings, or profits.

**You must read and understand this manual.** The design and function of each firearm is different from others. The basics of safe firearms handling cannot be repeated too often. Read, re-read, and understand the basic principles of firearm safety until they are thoroughly understood. If you are unfamiliar with firearms, enroll in a safety course conducted by an NRA-approved instructor or other qualified instructor. Check with your local gun clubs and firearm dealers.

## Alteration Warning

MODERN MUZZLE LOADING, INC. will not be responsible for any alterations to this firearm or any part thereof after it leaves our control, or for the addition or substitution of parts or accessories not manufactured by MODERN MUZZLE LOADING, INC.

This product was designed to function properly in its original condition. **Any changes made in this product are specifically contrary to our instructions and we expressly do not authorize any changes to be made after manufacture.** Any alteration will result in voiding the warranty. Do not jeopardize your safety or the safety of others by making modifications to your firearm.

## More Warnings

MUZZLELOADERS ARE DANGEROUS

READ THE INSTRUCTION MANUAL

WEAR EYE AND EAR PROTECTION

CLEAR THE FLASH HOLE

USE PYRODEX RS OR BLACK FFG POWDER ONLY

DO NOT EXCEED THE MAXIMUM POWDER CHARGE of 120 GRAINS BLACK  
FFG POWDER BY VOLUME OR ITS EQUIVALENT

SEAT BULLET FIRMLY ON POWDER CHARGE

USE THE DOUBLE SAFETY SYSTEM

STUDY DIAGRAMS BEFORE DISASSEMBLY

END CAP AND HAMMER SPRING ARE UNDER TENSION

INSTALL HAMMER GROUP BEFORE TRIGGER GROUP. YOU MAY INSTALL  
THE HAMMER WITH THE TRIGGER ENGAGED BY PULLING THE TRIGGER  
BACK IN FIRING POSITION

DO NOT ADJUST TRIGGER PULL UNDER 2 1/2 POUNDS

DO NOT ADJUST OVER-TRAVEL SCREW TOO TIGHTLY

## More Warnings (Continued)

MAKE SURE FIREARM IS UNLOADED BEFORE CLEANING

PYRODEX RS AND BLACK FFG POWDERS ARE HIGHLY CORROSIVE

CLEAN THE BORE, THE BREECH PLUG, NIPPLE, AND THE OUTSIDE OF YOUR FIREARM AFTER EACH USE. IT IS IMPORTANT TO REMOVE AND CLEAN YOUR BREECH PLUG. FAILURE TO FOLLOW THIS PROCEDURE WILL INCREASE THE CHANCES OF YOUR BREECH PLUG STICKING IN THE RECEIVER

SECURELY STORE FIREARM UNLOADED

OIL THE BORE AND THE OUTSIDE OF THE FIREARM AFTER CLEANING

PLACE LITHIUM GREASE ON THE BREECH PLUG

DO NOT STORE FIREARM IN A LEATHER CASE OR SCABBARD

DO NOT FIRE FIREARM WITH WORN, BROKEN, OR MODIFIED PARTS

PROPERLY FIT PARTS

DO NOT ALTER THE FIREARM OR PARTS

## Basic Safety Rules of Muzzleloading

1. ALWAYS handle your firearm as if it were loaded.
2. NEVER install a percussion cap on the nipple before loading.
3. ALWAYS keep your firearm safeties on "SAFE" while handling and loading.
4. ALWAYS use the Secondary Safety System on the firearm.
5. ALWAYS be sure the bullet is FIRMLY seated on powder charge.  
**WARNING! FAILURE TO DO SO COULD RESULT IN INJURY OR DEATH TO THE SHOOTER OR BYSTANDERS.**
6. ALWAYS be sure that the barrel and nipple flash hole are clear of any obstructions.
7. ALWAYS remember to UNLOAD the firearm before cleaning.
8. ALWAYS carry loading and cleaning equipment with you in the field.
9. ALWAYS clean and oil your firearm thoroughly after shooting. Black and Pyrodex Powders are VERY CORROSIVE. **FAILURE TO DO SO WILL DAMAGE YOUR FIREARM.**
10. ALWAYS be sure of your backstop, what lies beyond, and the safety of bystanders, before you shoot.
11. ALWAYS wear adequate EYE and EAR PROTECTION when shooting your firearm.
12. NEVER lend your firearm to anyone who is not thoroughly familiar with its operation or the basic rules of firearm safety. Be certain that anyone using your firearm has read and understands this Instruction and Safety Manual.
13. NEVER exceed the recommended maximum powder charge of 120 grains Black Powder FFG by volume or its equivalent. **WARNING! TO DO SO COULD RESULT IN INJURY OR DEATH TO THE SHOOTER OR BYSTANDERS.**
14. NEVER point your firearm at anything you do not intend to shoot!
15. NEVER USE SMOKELESS POWDER IN MUZZLELOADING WEAPONS. BE SURE TO USE BLACK OR PYRODEX POWDERS ONLY! USE OF SMOKELESS POWDER COULD RESULT IN INJURY OR DEATH TO THE SHOOTER OR BYSTANDERS.



## Basic Safety Rules of Muzzleloading (Continued)

16. If your muzzleloader falls to fire, keep the muzzle pointed in a safe direction.
17. Be defensive and on guard against unsafe gun handling around you and others.
18. Supervise and teach firearms safety to all members of your family.
19. Always unload your gun when not in use.
20. Hunting from elevated surfaces such as tree stands is dangerous...be safe.
21. Dropping your muzzleloader when loaded may cause an accidental discharge even with the safety on.
22. Always remove your rifle's cap before crossing a fence, climbing a tree, jumping a ditch, or negotiating other obstacles.
23. **NEVER drink alcoholic beverages or take any type of drugs before or during shooting.**
24. Be aware of and follow the hunting regulations which apply.

### Serial Number

The serial number can be found on the right hand side of the receiver in front of the window.

### **\*\*Unpacking Your New Firearm\*\***

KNIGHT FIREARMS are delivered factory-packaged and preserved with a coating of protective oil for shipping. Before loading and firing, make certain that all protective oil has been cleaned from the bore, breech plug, nipple, and exposed firing mechanism.

Your firearm has been tested, inspected, and properly packaged at the factory. MODERN MUZZLE LOADING, INC. cannot control product handling after shipment. Please examine this firearm carefully at the time of purchase to insure that it is unloaded and undamaged. Your dealer will be pleased to assist you in making this examination and will endeavor to answer any additional questions you may have.

### Accuracy and Reliability

The accuracy and reliability of your rifle is greatly dependent upon its care and use. It is recommended that you clean and oil your rifle at the end of each day's shooting. It is especially important to remove your breech plug and nipple. Clean them thoroughly and lubricate.

**FAILURE TO FOLLOW THIS PROCEDURE WILL INCREASE THE CHANCES OF YOUR BREECH PLUG STICKING IN THE RECEIVER.**

Important:

Rifle grade stainless steel is more rust and corrosion resistant than blued steel, **but is not rust proof**. To insure your stainless steel rifle remains in superior condition, clean, oil, and store it in the same manner as a blued steel rifle.

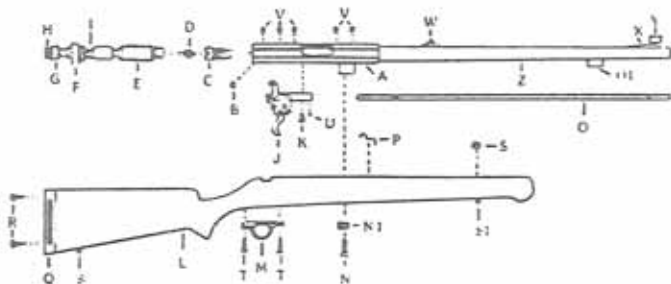
There are three components to the accuracy and reliability of your KNIGHT FIREARM.

1. **The Firearm Itself.** Your Knight Firearm is the result of years of development and use by a serious hunter with the input from many recognized hunters. (See Page 1 for a brief history.)
2. **The Accessories That Are Used.** Whenever possible, you should use KNIGHT ACCESSORIES to improve your hunting. All of our accessories have been thoroughly tested on our shooting range and in the field.
3. **You As The User.** As the user, you should spend a lot of time with your KNIGHT FIREARM and get to really know it. The more you use it, the better it will serve you.

## Disassembly

**THOROUGHLY STUDY THE DIAGRAMS AND ACQUAINT YOURSELF WITH THE DIFFERENT PARTS AND TERMINOLOGIES OF KNIGHT FIREARMS BEFORE YOU ATTEMPT TO DISASSEMBLE OR ASSEMBLE YOUR FIREARM.**

During the disassembly and reassembly of your firearm it is advisable to use a padded vice to remove and reinstall the breech plug.



### Steps for Disassembly

1. Remove the barreled action from the stock.

The BARRELED ACTION is held in the stock by (1) STOCK SCREW (HEX) #N located just forward of the TRIGGER GUARD #M. Remove this screw and carefully separate the barrel assembly from the STOCK #L. Set stock aside. Remove the RAMROD #O from the barrel assembly and set aside.

### Trigger Group

2. Remove Your Trigger Group.

To remove the TRIGGER GROUP, remove the TRIGGER MOUNTING SCREW (HEX) #K, and lift TRIGGER GROUP #J from the receiver.

### Hammer Group

3. Remove your Hammer Group.

To remove the HAMMER, loosen the END CAP LOCK SCREW (HEX) #B, located on the rear left side of the receiver. Unscrew the END CAP #F in a counter-clockwise direction. Grasp the SECONDARY SAFETY #G and pull the hammer group backwards with a slight twisting motion of the wrist, removing the hammer group from the receiver. If the end cap seems tight and difficult to unscrew, engage the secondary safety by screwing the secondary safety completely forward, covering the red ring. Pull back on the cocking handle and let it snap forward a few times. This will usually free and loosen the end cap #F, making it easy to remove.

### Ignition System

4. Remove your ignition system. **THE BREECH PLUG SHOULD BE REMOVED EACH TIME FOR CLEANING. FAILURE TO FOLLOW THIS PROCEDURE WILL INCREASE THE CHANCES OF YOUR BREECH PLUG STICKING IN THE RECEIVER.**

NOTE: The LK-93 Knight Legend comes with a breech plug (Mfg # 900022) that is exclusively designed for this series. The LK-93 Knight Legend's construction must only use this breech plug. FAILURE TO USE THE PROPER BREECH PLUG MAY CAUSE DAMAGE TO THE FIREARM OR SERIOUS HARM TO THE SHOOTER OR BYSTANDER.

MK-85 and BK-92 Breech Plug



LK-93 Legend Breech Plug



To remove the NIPPLE #D, insert the Combo Tool (Nipple Wrench side) into the receiver, engage the nipple, and turn it in a counter-clockwise direction. Remove the nipple from the receiver.

To remove the BREECH PLUG #C, put the barreled receiver into a padded vice and secure it tightly. Insert the Combo Tool (Breech Plug Wrench side) into the receiver, engage the breech plug, and turn it in a counter-clockwise direction. This may require a considerable amount of force. (Holes have been provided in the Combo Tool to allow a rod to be used for added leverage.)

### Steps for Assembly Ignition System

#### 1. Install Your Ignition System

When reinstalling the breech plug, place a film of lithium grease on the threads of the breech plug. (Lithium grease may be purchased at any hardware store.) Insert the breech plug into the rear of the receiver with the combo tool. Using the screwdriver end of the combo tool, screw the breech plug into the receiver until the breech plug is firm against the back of the barrel. Do not over-tighten or the breech plug will become difficult to remove.

**THE BREECH PLUG SHOULD BE REMOVED FOR CLEANING. FAILURE TO FOLLOW THIS PROCEDURE WILL INCREASE THE CHANCES OF YOUR BREECH PLUG STICKING IN THE RECEIVER.**

Insert the nipple into the rear of the receiver using the Combo Tool. Using the nipple end of the Combo Tool, screw the nipple into the breech plug until the nipple is firm against the breech plug. **DO NOT OVERTIGHTEN** or the nipple will become difficult to remove.

**CAUTION! BE SURE THE BREECH PLUG IS SCREWED ALL THE WAY INTO THE RECEIVER. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE FIREARM OR SERIOUS HARM TO THE SHOOTER OR BYSTANDERS.**

### Trigger Group

#### 2. Install Your Trigger Group

To install the trigger group, use the trigger retaining screw (Hex) #K, and assemble trigger group #J to the receiver. Tighten until the trigger group is firm against the receiver. Insure it is aligned with the receiver.

### Hammer Group

#### 3. Install Your Hammer Group

To install the hammer group, place the trigger safety in the forward "fire" position. **WHILE PULLING THE TRIGGER BACK**, slide the hammer group into the receiver and screw the end cap #F clockwise into place. Install the end cap lock screw (hex) #B.

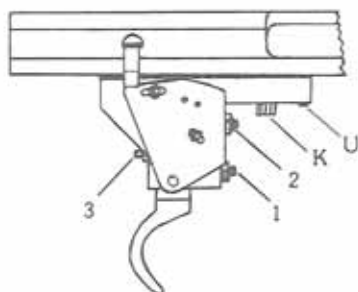
### Barreled Action

#### 4. Attach Your Barreled Action to the Stock.

To install your barreled action into the stock, place the barreled action into the stock and tighten the stock screw (Hex). Install the ramrod.



## Trigger Group Adjustment



Your KNIGHT firearm has an ACCU-LITE™ TRIGGER that has been pre-set at the factory for a crisp, clean release at approximately 2 1/2 pounds. This trigger is fully adjustable for pull weight, sear engagement, and on some models, over-travel.

**PULL WEIGHT:** Screw #1 is the trigger pull weight adjustment screw. To adjust, release the lock nut and turn the screw in (clockwise) to increase the trigger pull or turn the screw out (counter-clockwise) to decrease the trigger pull. **WARNING! DO NOT REDUCE TRIGGER PULL LOWER THAN 2 AND 1/2 POUNDS. TO DO SO COULD RESULT IN AN ACCIDENTAL DISCHARGE, CAUSING INJURY OR DEATH TO THE SHOOTER OR BYSTANDERS.**

**OVER-TRAVEL: (Not on all Models)** Screw #2 is the over travel adjustment. To adjust, release the lock nut and turn the screw in (clockwise) to tighten, or decrease, the over-travel of the trigger. Turn the screw out (counter-clockwise) to loosen, or increase, the over-travel of the trigger. **CAUTION! DO NOT ADJUST THE SCREW TOO TIGHTLY. IF IT IS ADJUSTED TOO TIGHTLY, THE TRIGGER SAFETY AND THE TRIGGER WILL NOT BE ABLE TO MOVE, THUS THE FIREARM WILL NOT FIRE.**

**SEAR ENGAGEMENT:** Screw #3 is the sear engagement adjustment. To adjust, release the lock nut and turn the screw in (clockwise) to reduce engagement and out (counter-clockwise) to induce engagement. The amount of sear engagement is dictated by the safety plunger. Adjust the sear engagement only when the safety is in the SAFE position to prevent the possibility of reducing the sear engagement to the point where the safety cannot be applied. A small window cut into the trigger housing allows you to visually verify the sear engagement. Some triggers do not have a locking nut. These can be adjusted by simply turning the adjustment screw clockwise or counterclockwise respectively. **NOTICE: THIS ADJUSTMENT SHOULD BE MADE ONLY AT THE FACTORY OR BY A CERTIFIED GUNSMITH.**

### Knight Patented Double Safety System

KNIGHT FIREARMS are equipped with the MML, INC. PATENTED DOUBLE SAFETY SYSTEM.

THE TRIGGER SAFETY is located on the right side of the receiver. When the trigger safety is pushed to the rear, the gun is in the "On Safe" position. This blocks the trigger and locks the hammer. When the safety is pushed forward, the indicator will be directly above the red dot on the stock. When this happens, your rifle is in the "Off Safe" position and ready to fire.

THE SECONDARY SAFETY IS LOCATED ON THE REAR OF THE RIFLE. This safety is activated by turning the secondary safety in a clockwise motion until it is all the way forward covering the red ring. Only then will the

firearm be positively safe from accidental firing.

To fire the firearm, turn the secondary safety in a counter clockwise motion until the red ring is fully exposed. The use and design of the secondary safety is to keep the firearm from firing by not permitting the hammer to strike the percussion cap.

## Sights and Scope Mounts

Your rifle has been bore sighted at the factory, but to shoot accurately your rifle needs to be sighted in to fit your personal sight picture. When sighting in, we recommend you swab the bore between shots. Use the ramrod extension and cleaning jag, moisten a patch using either solvent or saliva, and clean the barrel. Do not run the patch down the full length of the barrel in one stroke as this will cause the patch to stick at the bottom. Start the patch down the barrel gradually, moving the patch down the barrel with short up and down strokes, until you strike the breech plug at the bottom. Remove the patch and turn it over to the clean side. Repeat the procedure and discard the patch. You are now ready to load, and adjust, the sights on your rifle.

We recommend a "sight-in" at 50 yards, maintaining a point of impact 2" above the center of the bullseye. This would place the projectile approximately on the bullseye at 100 yards and approximately 3" below the target at about 125 yards. These approximate bullet drops will vary with the size of load and weight of bullet. After experience, you will have a preference as to how you wish to sight your rifle.

Your rifle's sights are adjusted by moving the rear sight. To make your rifle shoot higher, move the rear sight higher. To make your rifle shoot lower, move the rear sight lower. When you want to move the impact of the projectile to the right, move the rear sight blade to the right. Regardless of the sight you have or its method of adjustment, **MOVE THE REAR SIGHT IN THE DIRECTION YOU WISH THE IMPACT OF THE PROJECTILE TO MOVE.**

When shooting heavy lead bullets you may not be able to get enough height adjustment in your rear sight. Should this occur you may need to install a shorter front bead, a higher rear blade, or both. **BE SURE TO NOT TIGHTEN YOUR SIGHT SCREWS TOO TIGHT IN THE SIGHT.**

**WHEN SIGHTING IN A SCOPE, FOLLOW THE SCOPE MANUFACTURER'S DIRECTIONS.**

## Scope Bases

The Knight MK-85 and BK-92 series firearms are drilled and tapped for multi-positioning of two piece Weaver #61, two piece Redfield Midline #61, two piece Warne detachable #4072, or any two piece Browning A-bolt bases, as well as the one piece Warne detachable #4089. The MK-85 and BK-92 Knight Firearms are drilled and tapped with five 6x48 mounting holes with the following spaces:

• ← .865 → • ← .865 → • ← 2.180 → • ← .865 → •

The LK-93 Legend series firearm is drilled and tapped for multi-positioning of two piece Weaver style #45, two piece Redfield American # 581045, or Armsport # 01045 bases. The LK-93 Legend series firearm is drilled and tapped with five 6x48 mounting holes with the following spaces:

• ← .502 → • ← .502 → • ← 2.180 → • ← .502 → •

**NOTE: WHEN USING WEAVER STYLE BASES, SHORTEN THE FRONT SCREW OF THE FRONT BASE (CLOSEST BASE AND SCREW TO THE BARREL) APPROXIMATELY 1/16 INCH FOR PROPER FIT.**

## Loading Data Page

Bullet Description	Range yards	Bullet Impact Inches	Velocity ft/sec	Energy ft/lbs
Sabot MML 240 gr/44 cal Jacketed	0	-0.5	1650	1451
	25	1.4	1569	1311
	50	1.7	1491	1185
	100	0	1349	970
	150	-6.4	1228	804
Sabot MML 260 gr/45 cal Lead Alloy	0	-0.5	1625	1524
	25	1.1	1543	1375
	50	1.7	1466	1241
	100	0	1326	1014
	150	-6.7	1207	840
Sabot MML 310 gr/45 cal Lead Alloy	0	-0.5	1550	1653
	25	1.2	1485	1517
	50	1.9	1422	1392
	100	0	1308	1177
	150	-6.9	1209	1006
Sabot MML 260 gr/45 cal Jacketed	0	-0.5	1640	1552
	25	1	1566	1415
	50	1.7	1495	1290
	100	0	1364	1074
	150	-6.3	1250	901
Sabot MML 300 gr/45 cal Jacketed	0	-0.5	1600	1705
	25	1.1	1537	1573
	50	1.7	1476	1452
	100	0	1364	1238
	150	-6.4	1264	1063
Pure Lead 385 gr/50 cal	0	-0.75	1450	1797
	25	1.31	1372	1610
	50	2.23	1301	1447
	100	0	1177	1185
	150	-8.18	1085	1007
Pure Lead 410 gr/50 cal	0	-0.75	1425	1848
	25	1.39	1342	1641
	50	2.31	1268	1462
	100	0	1143	1189
	150	-8.79	1094	1089
Pure Lead 425 gr/54 cal	0	- .75	1350	1720
	25	1.57	1277	1539
	50	2.56	1211	1385
	100	0	1105	1152
	150	-9.49	1028	997



## Loading Your Firearm

Each time your rifle has been cleaned and oiled, it is necessary to free the nipple and breech plug firing holes from any oil and debris prior to its use. This is done as follows:

1. Screw the cleaning jag into the end of the ramrod.
2. Place a patch on the end of your cleaning jag and insert it into the muzzle until it sits on the breech plug (until it can't go down any farther).
3. With gun pointed in a safe direction, place (1) cap on the nipple and fire the gun, repeat this process 3 or 4 times.
4. Pull your ramrod out of the muzzle, there should be a blackened surface or a hole burned in the middle of your patch and oil residue around the rest of your patch.

## Your Rifle Is Now Ready For Loading

5. Be sure the trigger safety and the secondary safety systems are on safe.
6. Place the butt of the firearm on the ground so that the muzzle is facing up.
7. Take your KNIGHT powder measurer and set it to the recommended load. (See Ballistics Chart.) **NEVER USE SMOKELESS POWDER.**
8. Take your KNIGHT flask and pour powder into the measurer until it is full.
9. Take your KNIGHT powder measurer and pour powder into the muzzle.
10. If using sabots, place a bullet firmly into the recommended sabot so that the base of the bullet is squarely seated in the sabot.
11. Insert the projectile and start it down the bore using the KNIGHT M-P bullet starter.
12. Using a hand over hand motion, drive the bullet down onto the powder charge using the concave end of the ramrod. **MAKE SURE THE BULLET IS FIRMLY SEATED ON THE POWDER CHARGE. DO NOT POUND OR BOUNCE THE RAMROD ON THE BULLET AS YOU DO WITH A PATCHED ROUND BALL. THIS WILL DEFORM THE PROJECTILE, CAUSING LOSS OF ACCURACY AND BULLET PERFORMANCE. FAILURE TO FIRMLY SEAT THE PROJECTILE ON THE POWDER CHARGE COULD RESULT IN INJURY OR DEATH TO THE SHOOTER OR BYSTANDERS.**
13. Be sure to remove your ramrod from the bore.
14. Be sure the firearm is pointed in a safe direction, pull the cocking handle rearward until the hammer locks in the firing position.
15. Double check your trigger and secondary safeties and **BE SURE THEY ARE ON SAFE BEFORE PLACING A #11 CAP ON THE NIPPLE.**
16. Using a KNIGHT UNIVERSAL IN-LINE CAPPER, place a #11 cap on the nipple. **YOUR GUN IS NOW ARMED.**

## Care and Cleaning

**Before cleaning, be certain the firearm is unloaded and that no cap is on the nipple.**

A muzzleloader must be free of rust, dirt, grease, and powder residue to function safely and reliably. Careful maintenance, which includes inspection of all components to determine if they are in proper working order, is absolutely essential.

**Muzzleloading firearms use Black FFG or Pyrodex RS powder that is highly corrosive, and when fired will deposit corrosive particles and residue in the bore, breech plug, nipple, hammer, receiver, and other parts of the rifle.** Therefore, the frequency and extent of required cleaning is directly related to how much the rifle is fired and in what climatic conditions the firearm was used. **REMEMBER, with Black or Pyrodex powders it is always better**



## to be safe than sorry.

### Important:

Rifle grade stainless steel is more rust and corrosion resistant than blued steel, **but is not rust proof**. To insure your stainless steel rifle remains in superior condition, clean, oil, and store it in the same manner as a blued steel rifle.

**BE SURE TO REMOVE YOUR BREECH PLUG AND NIPPLE AND CLEAN THEM THOROUGHLY AT THE END OF EACH DAY'S SHOOTING. FAILURE TO FOLLOW THIS PROCEDURE WILL INCREASE THE CHANCES OF YOUR BREECH PLUG STICKING IN THE RECEIVER.**

Always clean and lubricate your rifle every time you use it. The alert gun owner soon learns that KNIGHT FIREARMS function most reliably, accurately, and consistently when they are free of accumulations of powder, grease, and other residue.

Basic cleaning equipment includes: ramrod equipped with bore brush (fiber and/or brass), a cleaning jag, patches, powder solvent, lubricant, water displacing oil, small lint-free cloths, pipe cleaners, and a toothbrush.

1. To clean the rifle thoroughly, disassemble as described previously in this manual, taking care to put all small parts and similar mislaid components in a tray.

### Cleaning with Soap and Water

- a. Place your barreled action, nipple, breech plug, and hammer in hot soapy water. **Do not use water to clean the trigger.** Clean the trigger with solvent and lubricate sear.
- b. Using a ramrod with a cleaning jag attached, place a patch over the muzzle. Scrub the bore vigorously to completely remove all foreign matter, powder residue, and fouling. Repeat this process as many times as necessary to get a clean bore.
- c. Using a toothbrush or pipe cleaner, thoroughly scrub the breech plug around the threads, seating area, and flash hole.
- d. Using a clean patch, cloth, or toothbrush, thoroughly clean the nipple, receiver, hammer, and other components of all residues, fouling, etc.

### Cleaning with an Approved Solvent

- a. Place a recommended amount of solvent on a cleaning patch. Place the patch, with solvent side to the bore, over the muzzle. Using a ramrod with a cleaning jag installed, scrub the bore vigorously to completely remove all foreign matter, powder residue, and fouling. Repeat this process as many times as necessary to get a clean bore.
  - b. Place some solvent on a toothbrush or pipe cleaner, thoroughly scrub the breech plug around the threads, seating area, and flash hole.
  - c. Using a patch with solvent, thoroughly clean the nipple, receiver area, hammer, and other components of the rifle where residues and fouling occur.
2. After cleaning, thoroughly dry all metal surfaces and generously lubricate your firearm using gun oil.
  3. **IF THE FIREARM IS TO BE STORED FOR AN EXTENDED PERIOD OF TIME, BE SURE YOUR BREECH PLUG IS PROPERLY GREASED WITH EITHER LITHIUM OR OTHER RIFLE GREASE TO PREVENT IT FROM STICKING.** Be sure your barrel is cleaned and lubricated both in the bore and outside. Clean the trigger with solvent and lubricate sear.
  4. Carefully reassemble the firearm and wipe all oil, solvent, and preservative preparations from the stock.
  5. If the firearm is to be stored for any period of time, wipe all external surfaces with a cloth containing a preservative oil.

6. Store your firearm in a cool, clean, and dry place. Do not store the firearm in a leather case or scabbard. Leather attracts moisture, even though it may appear to be dry.

**Important:**

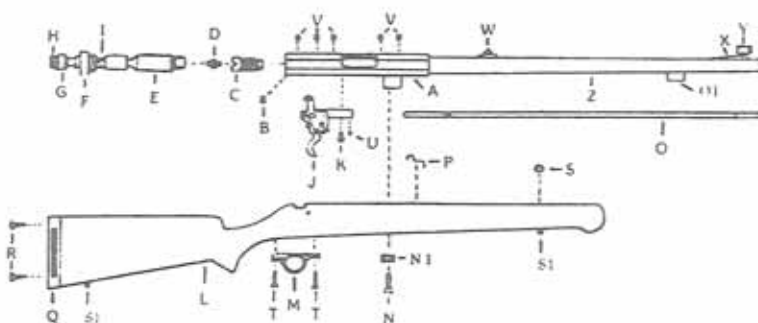
Rifle grade stainless steel is more rust and corrosion resistant than blued steel, but is not rust proof. To insure your stainless steel rifle remains in superior condition, clean, oil, and store it in the same manner as a blued steel rifle.

**WARNING: NEVER STORE A FIREARM IN SUCH A MANNER THAT IT MAY UNINTENTIONALLY BE DISCHARGED. A FIREARM SHOULD BE STORED SECURELY AND UNLOADED.**

All KNIGHT FIREARMS have closely related part descriptions.

When ordering parts from the list on the following page, you must show the Model Number and Serial Number from the receiver of your firearm.

## Parts Diagram



- |                           |                              |
|---------------------------|------------------------------|
| A. Receiver               | N. Stock Screw               |
| B. End Cap Lock Screw     | N1. Stock Screw Bushing      |
| C. Breech Plug            | O. Ramrod                    |
| D. Nipple                 | O1. Ramrod Guide             |
| E. Hammer                 | P. Ramrod Retaining Spring   |
| F. End Cap                | Q. Recoil Pad                |
| G. Secondary Safety       | **R. Recoil Pad Screws       |
| H. Hammer Screw           | **S. Swivel Stud Nut         |
| I. Hammer Spring          | S1. Swivel Studs             |
| J. Trigger                | T. Trigger Guard Screws      |
| K. Trigger Mounting Screw | **U. Trigger Case Lock Screw |
| L. Stock                  | V. Plug Screws               |
| M. Trigger Guard          | W. Rear Sight                |
|                           | X. Front Sight Ramp          |
|                           | **Y. Sight Hood              |
|                           | Z. Barrel                    |

\*\*Not on some models

**NOTE:** The LK-93 Knight Legend comes with a breech plug (Mfg # 900022) that is exclusively designed for this series. The LK-93 Knight Legend's construction must only use this breech plug. **FAILURE TO USE THE PROPER BREECH PLUG MAY CAUSE DAMAGE TO THE FIREARM OR SERIOUS HARM TO THE SHOOTER OR BYSTANDER.**

MK-85 and BK-92 Breech Plug



LK-93 Legend Breech Plug



# ACCESSORY AND PART PRICE SHEET

(Prices Subject to Change)

Ref	MFG #	DESCRIPTION	RETAIL
A,Z		BARRELED ACTION (BLUE, .50, .54), MK, BK	P.O.R.
A,Z		BARRELED ACTION (STAINLESS, .50, .54), MK	P.O.R.
A,Z		BARRELED ACTION (BLUE, .50), LK	P.O.R.
U		SCREW, TRIGGER CASE LOCK	1.95
E	000720	HAMMER, MK, BK, LK	19.95
I	000790	SPRING, HAMMER, MK, BK, LK	2.95
F	000810	CAP, END, MK, BK, LK, BLUE	10.95
F	000820	CAP, END, MK, SS	14.95
G	000850	SAFETY, SECONDARY, MK, BK, LK, BLUE	7.95
G	000860	SAFETY, SECONDARY, MK, SS	10.95
H	000870	SCREW, HAMMER, MK, BK, LK, BLUE	7.95
H	000880	SCREW, HAMMER, MK, SS	10.95
B	008500	SCREW, END CAP LOCK	.95
V	008600	SCREW, PLUG (SET OF 5)	1.95
K	008700	SCREW, MOUNTING, TRIGGER	2.95
W	008701	SIGHT, REAR W/ BLADE, MK	24.95
W	008702	SIGHT, REAR W/ BLADE, BK	19.95
W	008703	SIGHT, REAR W/BLADE, LK	16.95
*	008900	SIGHT, BLADE 1/4	5.95
*	009000	SIGHT, BLADE 3/16	5.95
*	009100	SIGHT, BLADE 5/16	5.95
*	900160	SIGHT, PEEP, WILLIAMS	29.95
X	009400	SIGHT, FRONT RAMP, MK, BK	12.95
*	009410	SIGHT, FRONT W/ BEAD, LK	16.95
*	009500	SIGHT, BEAD .260	7.95
*	009600	SIGHT, BEAD .290	7.95
*	009700	SIGHT, BEAD .313	7.95
*	009800	SIGHT, BEAD .345	7.95
*	009900	SIGHT, BEAD .375	7.95
Y	010000	SIGHT, FRONT HOOD, MK	7.95
*	010010	SCREW, SIGHT 130-STD	.95
*	010020	SCREW, SIGHT 170-STD	.95
*	010030	SCREW, SIGHT 260-STD	.95
*	010040	SCREW, SIGHT 285-PEEP	.95
*	010050	SCREW, SIGHT 350-PEEP	.95
O	010061	RAMROD, 20" ALUMINUM	19.95
O	010071	RAMROD, 22" ALUMINUM	19.95
O	010081	RAMROD, 24" ALUMINUM	19.95
M	090270	GUARD, TRIGGER, COMPOSITE	5.95
M	010130	GUARD, TRIGGER, METAL	19.95
T	010140	SCREW, GUARD, TRIGGER (SET OF 2)	1.95
S1	010150	SWIVEL STUD, FRONT, BLUE	1.95
S1	010160	SWIVEL STUD, REAR, BLUE	1.95
S1	010170	SWIVEL STUD, FRONT, SS	1.95
S1	010180	SWIVEL STUD, REAR, SS	1.95
S	010230	NUT, SWIVEL, FRONT, BLUE	1.95
N1	010200	BUSHING, STOCK SCREW, BLUE	2.95
N	010210	SCREW, STOCK 1/4 - 20X1	1.95
Q	010220	PAD, RECOIL, BROWN, MK	12.95
Q	010260	PAD, RECOIL, BLACK, MK	12.95
Q	010261	PAD, RECOIL, BLACK, BK, LK	12.95
P	010240	SPRING, RAMROD RETENTION	2.95

\*Not Shown on Diagram

Firearm users are cautioned that a weapon containing modified, broken, malfunctioning, or badly worn parts should not be fired!



## ACCESSORY AND PART PRICE SHEET (cont.)

(Prices Subject to Change)

L	090100	STOCK ASSY, SHADOW BLACK, MK .....	179.95
L	090101	STOCK, SHADOW BLACK, MK, THUMB, RH .....	298.45
L	090111	STOCK, SHADOW BROWN, MK, THUMB, RH .....	298.45
L	090112	STOCK, SHADOW BROWN, MK, THUMB, LH .....	298.45
L	090120	STOCK ASSY, FOREST GREEN, MK .....	179.95
L	090130	STOCK ASSY, WALNUT, MK .....	149.95
L	001100	STOCK ASSY, WALNUT, A, MK .....	189.95
L	001200	STOCK ASSY, WALNUT, AA, MK .....	269.95
L	001300	STOCK ASSY, WALNUT, AAA, MK .....	299.95
L	090140	STOCK ASSY, COMPOSITE, MK .....	149.95
L	090141	STOCK ASSY, BK COMPOSITE .....	139.95
L	090142	STOCK ASSY, COMP, MK, THUMB, RH .....	199.95
L	090143	STOCK ASSY, COMP, MK, THUMB, LH .....	199.95
L	090144	STOCK ASSY, COMP, BURLWOOD, MK, TH, RH .....	219.95
L	090145	STOCK ASSY, COMP, BURLWOOD, MK, TH, LH .....	219.95
L	090150	STOCK ASSY, LK, WALNUT STAINED HARDWOOD .....	99.95
L	090160	STOCK ASSY, BK PROLIGHT .....	109.95
L	090161	STOCK ASSY, BK WALNUT STAINED HW .....	119.95
L	090170	STOCK ASSY, CAMO COMPOSITE .....	149.95
*	090200	HAMMER ASSEMBLY, MK, BK, LK, BLUE .....	48.95
*	090201	HAMMER ASSEMBLY, MK, SS .....	58.95
*	090250	KIT, ACCESSORY, .50 CALIBER .....	22.35
*	090251	KIT, ACCESSORY, .54 CALIBER .....	22.35
T	090260	TRIGGER, ACCULITE DELUXE, MK .....	69.95
T	015060	TRIGGER, ACCULITE, BK, LK .....	59.95
*	100033	VIDEO, INSTRUCTIONAL 1 HOUR .....	24.95
D	900010	NIPPLE, 1/4 X 28, SS, 2 PER PACK .....	5.89
D	900011	MAGNUM SURE FIRE NIPPLE 5/16-24, 2/PACK .....	6.59
C	900020	BREECH PLUG, SS, MK, BK .....	16.95
C	900022	BREECH PLUG, SS, LK .....	16.95
*	900030	CAPPER, UNIVERSAL, IN-LINE DESIGN .....	24.95
*	900040	CLEANING JAG & EXTENSION .50 .....	4.99
*	900041	CLEANING JAG & EXTENSION .54 .....	4.99
*	900070	BULLET STARTER .50/.54 CAL .....	14.95
*	900100	POWDER MEASURE AND FLASK .....	24.95
*	900120	SABOTS 50/44 GREEN/50 PER PACK .....	6.95
*	900121	SABOTS 50/45 BLACK/50 PER PACK .....	6.95
*	900122	SABOTS 54/44 WHITE/50 PER PACK .....	6.95
*	900123	SABOTS 54/45 RED/50 PER PACK .....	6.95
*	900124	SABOTS 45/357 BLUE/50 PER PACK .....	6.95
*	900130	COMBO TOOL .....	16.95
*	900135	DECAPPER .....	15.95
*	900220	SABOT/BULLET JACKETED 50-240/20 PACK .....	5.99
*	900230	SABOT/BULLET JACKETED 54-240/20 PACK .....	5.99
*	900180	SABOT/BULLET JACKETED 50-260/20 PACK .....	6.69
*	900181	SABOT/BULLET JACKETED 50-300/20 PACK .....	7.64
*	900190	SABOT/BULLET JACKETED 54-260/20 PACK .....	6.69
*	900191	SABOT/BULLET JACKETED 54-300/20 PACK .....	7.64
*	900200	SABOT/BULLET, LEAD, 50-260/20 PER PACK .....	5.90
*	900201	SABOT/BULLET, LEAD, 50-310/20 PER PACK .....	7.33
*	900210	SABOT/BULLET, LEAD, 54-260/20 PER PACK .....	5.90
*	900211	SABOT/BULLET, LEAD, 54-310/20 PER PACK .....	7.33

LABOR: HOURLY RATE ..... 40.00

SHIPPING, HANDLING, & INSURANCE (Subject to Change)

	Regular Service	2nd Day	Next Day
Under \$40.00	\$ 7.00	\$14.50	\$24.50
\$40.01 - \$60.00	\$ 7.75	\$16.00	\$26.00
\$60.01 - \$100.00	\$ 9.00	\$17.50	\$27.50
\$100.01 - \$200.00	\$ 9.75	\$19.00	\$29.00
Over \$200.00	\$10.50	\$20.50	\$30.50

FOR C.O.D. ADD \$6.50

\*Not Shown on Diagram

**Firearm users are cautioned that a weapon containing modified, broken, malfunctioning, or badly worn parts should not be fired!**

## Service Policy

Every KNIGHT FIREARM is carefully inspected and tested in order to ensure that it conforms to MODERN MUZZLE LOADING, INC. strict specifications and standards.

Should your firearm require adjustment, repair, or refinishing, we strongly recommend that it be returned to MODERN MUZZLE LOADING, INC. for factory service.

Any alteration, adjustment, repair, or refinishing will result in voiding the warranty. Do not jeopardize your safety or the safety of others by making modifications to your firearm. If there is any question regarding the performance of your firearm, please write to our Service Department fully describing all circumstances and conditions involved. If our Service Department makes the determination that your firearm requires factory service, you will be so advised and will be given instructions for the most expeditious handling of your firearm.

Our Service Department will give your firearm a complete inspection and evaluate the problem(s) specified in your letter. If the work required is not covered under the terms of our "MK Warranty" or "BK Warranty" (copies printed in this manual); you will receive an actual cost quotation, not an estimate. Any repair work must be authorized by you, and no work will be done without your expressed approval.

### Instructions for Return

Failure to follow the instructions below will not prevent you from obtaining warranty service. These instructions are designed to assure you of the best possible service. If for any reason you should have to return the firearm, please use extreme caution and make certain that it is UNLOADED. Please return the complete firearm.

- (1) Package the firearm securely to prevent damage in transit.
- (2) Ensure that a letter is securely and obviously attached to the firearm. This letter should include your full name, address and telephone number, where you may be reached both during normal business hours and at your residence. Include a thorough description of the problem that you encountered with your firearm so that we may make proper repairs. Please make your letter as clear as possible (using diagrams, if desirable); please write or print legibly or have the letter typed. If you prefer you may call Modern Muzzle Loading, Inc. at the number listed below.
- (3) Please send your firearm prepaid parcel post or UPS insured. C.O.D. shipments will not be accepted.
- (4) Send your firearm to Modern Muzzle Loading, Inc., Service Department, 234 Airport Road, P.O. Box 130, Centerville, IA 52544.

**WHERE TO GET FURTHER HELP** - If you wish further help or information concerning this warranty, please write or call the Modern Muzzle Loading, Inc., Services Department at the following address:

**Modern Muzzle Loading, Inc.**  
234 Airport Road, P.O. Box 130  
Centerville, IA 52544 Telephone (515)856-2626

## MK-85 SERIES

### Limited Lifetime Warranty

#### WARRANTY PROVIDES FOR:

- \* **LIFETIME:** Modern Muzzle Loading, Inc. guarantees the accuracy of your firearm.
- \* **LIFETIME:** Modern Muzzle Loading, Inc. will replace or repair a defective barrel or receiver, caused by materials or craftsmanship.
- \* **YEAR 1:** Modern Muzzle Loading, Inc. will repair or replace any defective part, caused by materials or craftsmanship, free of charge.
- \* **YEAR 2-5:** Modern Muzzle Loading, Inc. will replace or repair any defective threaded part, caused by materials or craftsmanship.

#### WARRANTY LIMITATIONS:

- \* Warranty begins at the original date of purchase
- \* Applies only to normal use
- \* Under the full warranty, service must be performed by the factory or an authorized dealer
- \* Warranty only applies to original purchaser
- \* Warranty does not apply to nipples

#### Warranty is void if:

- \* Serial number is defaced
- \* Defect is due to damage or product alteration
- \* Product is not used in accordance with use and care instructions
- \* Firearm is not cleaned as instructed per owner's manual
- \* **In no event shall Modern Muzzle Loading be responsible of any incidental or consequential damages\***
- \* Firearm is used in conjunction with a Bi-pod

#### OWNER'S RESPONSIBILITIES:

- \* Providing proof of purchase (sales invoice/canceled check/warranty card)
- \* Normal care and maintenance
- \* Replacing owner replaceable items
- \* For shipping/handling & insurance on a factory return
- \* For normal cleaning as instructed per owner's manual

#### Important:

Rifle grade stainless steel is more rust and corrosion resistant than blued steel, **but is not rust proof**. To insure your stainless steel rifle remains in superior condition, clean, oil, and store it in the same manner as a blued steel rifle.

\* This warranty gives you specific legal rights, and you may have others which vary from state to state. For example, some states do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion may not apply to you.

For warranty service contact the dealer you purchased your rifle from. Should you have a service problem that is not resolved locally,

Write:

Modern Muzzle Loading, Inc.  
234 Airport Road, P.O. Box 130  
Centerville, IA 52544  
TEL: (515) 856 - 2626  
FAX: (515) 856 - 2628

## **BK-92 SERIES AND LK-93 SERIES**

### **Limited Warranty**

#### **WARRANTY PROVIDES FOR:**

- \* YEAR 1: Modern Muzzle Loading, Inc. will repair or replace any defective part, caused by materials or craftsmanship. (Labor and parts are warranted for the first year of the first registered customer.)

#### **WARRANTY LIMITATIONS:**

- \* Warranty begins at the original date of purchase
- \* Applies only to normal use
- \* Warranty only applies to original purchaser
- \* Warranty does not apply to wear items such as nipples
- \* Even the best of hardwood stocks can break if subjected to substantial abuse, so our hardwood stocks are guaranteed for quality of material and manufacturing defects only.

#### **Warranty is void if:**

- \* Serial number is defaced
- \* Defect due to damage or product alteration
- \* Product is not used in accordance with use and care instructions
- \* Firearm is used in conjunction with a Bi-Pod
- \* Firearm is not cleaned per owner's manual
- \* **In no event shall Modern Muzzle Loading be responsible of any incidental or consequential damages\***

#### **OWNER'S RESPONSIBILITIES:**

- \* Providing proof of purchase (sales invoice/canceled check/warranty card)
- \* Normal care and maintenance
- \* Replacing owner replaceable items
- \* For shipping/handling & insurance on a factory return
- \* For normal cleaning as instructed per owner's manual
- \* **This warranty gives you specific legal rights, and you may have**

**others which vary from state to state. For example, some states do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion may not apply to you.**

**For warranty service contact the dealer you purchased your rifle from.** Should you have a service problem that is not resolved locally,

Write: Modern Muzzle Loading, Inc.  
234 Airport Road, P.O. Box 130  
Centerville, IA 52544  
TEL: (515) 856 - 2626  
FAX: (515) 856 - 2628



**DISCLAIMERS** - Modern Muzzle Loading, Inc. firearms are designed specifically for use with **Pyrodex RS or Black FFG Powder only.**

**DO NOT USE SMOKELESS POWDER.**

**Exceeding maximum powder charge could result in extreme danger.** Our products are designed specifically for use on Knight Firearms. Modern Muzzle Loading, Inc. expressly disclaims any and all liability for the following: incidental or consequential damages due to the misuse or altering of these firearms and products; any mishandling (whether accidental or purposeful) of these firearms and products; exceeding the maximum load recommendations; or for firearms on which our products have been installed.

**Modern Muzzle Loading, Inc.**

234 Airport Road, P.O. Box 130

Centerville, IA 52544 Telephone: (515)856-2626