

SAFETY PROCEDURES
HAWKEYE PISTOL

These instructions are designed to assist you in learning how to properly load, handle, and fire your new KNIGHT HAWKEYE PISTOL. Do not attempt to shoot this muzzleloading pistol until you are certain that you fully understand the proper procedures. If you have any doubts about your ability to handle or use any type of gun safely, seek supervised instruction.

You have purchased the Knight Hawkeye Pistol which is similar in design to the Knight rifle. However there are two basic differences. First the stock screw in your Hawkeye pistol is located just behind the trigger in the pistol grip. Secondly, the trigger system in your pistol uses a cross bolt safety located immediately behind the trigger. To activate the safe position push cross bolt safety to the right while holding pistol in the normal firing position. Special note: the cross bolt safety system in the trigger of your Hawkeye pistol is ambidextrous and can be placed in reverse operation for left handed shooters. However this procedure should be performed by factory authorized personnel only.

Since Knight Hawkeye pistols use the same basic design and functions as a Knight muzzleloading rifle, we have included the Knight Rifle Instruction and Safety Manual with your pistol for instructions on disassembly, assembly, cleaning, sighting, and scoping. (Use Knight LK Quick Detach Rings and Bases or Weaver #45 bases with compatible rings.)

The Knight Hawkeye Pistol is a high quality percussion muzzleloading hunting handgun designed and manufactured to our strict specifications and incorporating our standards of safety, accuracy, and reliability.

The Hawkeye Pistol is designed for use with Black Powder or Pyrodex "p", "RS", and "Select" grade powders. NEVER USE SMOKELESS POWDER! To use anything but the recommended powders could result in damage to the pistol and injury to the shooter.

Black Powder is commercially available in four granulations for today's muzzleloading shooter. The largest granulation is designated "FG" and the finest granulation is designated "FFFG". While any granulation of Black Powder can be safely fired in the Hawkeye Pistol, MODERN MUZZLELOADING, INC. recommends "FFFG" for best performance. Remember that Black Powder is a "Class A" explosive and is extremely sensitive, readily ignited by heat, sparks, static electricity, friction, impact, etc. Handle and store with care.

Your Hawkeye Pistol may be loaded and fired with a wide range of projectiles, including the patched round ball, pure lead conical,

or a modern sabot bullet. For optimum accuracy and performance, MODERN MUZZLELOADING, INC. recommends the 260 grain .45 caliber diameter bullet with a black HI-PER SHOCK sabot loaded with 50 grains of "FFFG" Black Powder. Bullets of these types, Black Powder or Pyrodex, and accessories can be purchased from your local sporting goods dealer.

LOADING INSTRUCTIONS

Loading Your Firearm

Each time your pistol 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. Make sure that both safeties are in the safe position.
2. Be sure that the firearm is unloaded and free of bore obstruction. To do this insert the ramrod into the muzzle, letting it fall to the bottom of the barrel. If the firearm is unloaded and clear of bore obstructions, the top of the ramrod will be flush with the muzzle. If bore is not clear refer to page 6 of your instruction and safety manual and follow disassembly and cleaning instructions.
3. Screw the cleaning jag onto the concave end of the ramrod.
4. Place a patch over the end of your barrel, and using your ramrod with the cleaning jag, push it into the barrel until it bottoms on the breech plug.
5. With firearm pointed in a safe direction, place (1) cap on the nipple and fire the gun, repeat this process 3 or 4 times.
6. 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. If there is no evidence of a burn then remove your nipple and breech plug, clean and repeat procedure. Remove the cleaning jag from your ramrod prior to loading.

YOUR PISTOL IS NOW READY FOR LOADING

7. Be sure the trigger safety and the secondary safety systems are still on safe.
8. Place the receiver end of the firearm on a solid surface or as illustrated.



9. Preset your KNIGHT powder measurer to the recommended load. (See Ballistics Chart.) NEVER USE SMOKELESS POWDER.
10. Using the Knight powder flask fill the powder measurer.
11. Pour powder from measurer into the barrel of your pistol.
12. Insert the projectile and start it down the bore using the KNIGHT MP-bullet starter.
13. Push 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.
14. Remove your ramrod from the bore.
15. Be sure the firearm is pointed in a safe direction, pull the cocking handle rearward until the hammer locks in the firing position.
16. Double check your trigger and secondary safeties and BE SURE THEY ARE ON SAFE BEFORE PLACING A #11 CAP ON THE NIPPLE.

MEMO

: FIRING OF PISTOL

THE FOLLOWING ARE THE RESULTS OF FIRING THE PISTOL THROUGH THE CHRONOGRAPH.

44-240 50 GRAINS FFFG BLACK POWDER BC=.165 STANDARD DEVIATION=32

	<u>VELOCITY</u>	<u>ENERGY</u>	<u>TRAJECTORY</u>
MUZZLE	1115	662	
25 YARDS	1070	610	0.57
50 YARDS	1032	567	0
75 YARDS	999	531	-2.60

44-240 60 GRAINS FFFG BLACK POWDER BC=.165 STANDARD DEVIATION=27

	<u>VELOCITY</u>	<u>ENERGY</u>	<u>TRAJECTORY</u>
MUZZLE	1200	767	
25 YARDS	1142	694	0.46
50 YARDS	1092	636	0
75 YARDS	1051	588	-2.26

45-260 60 GRAINS FFFG BLACK POWDER BC=.183 STANDARD DEVIATION=27

	<u>VELOCITY</u>	<u>ENERGY</u>	<u>TRAJECTORY</u>
MUZZLE	1160	777	
25 YARDS	1113	714	0.50
50 YARDS	1072	663	0
75 YARDS	1037	621	-2.39

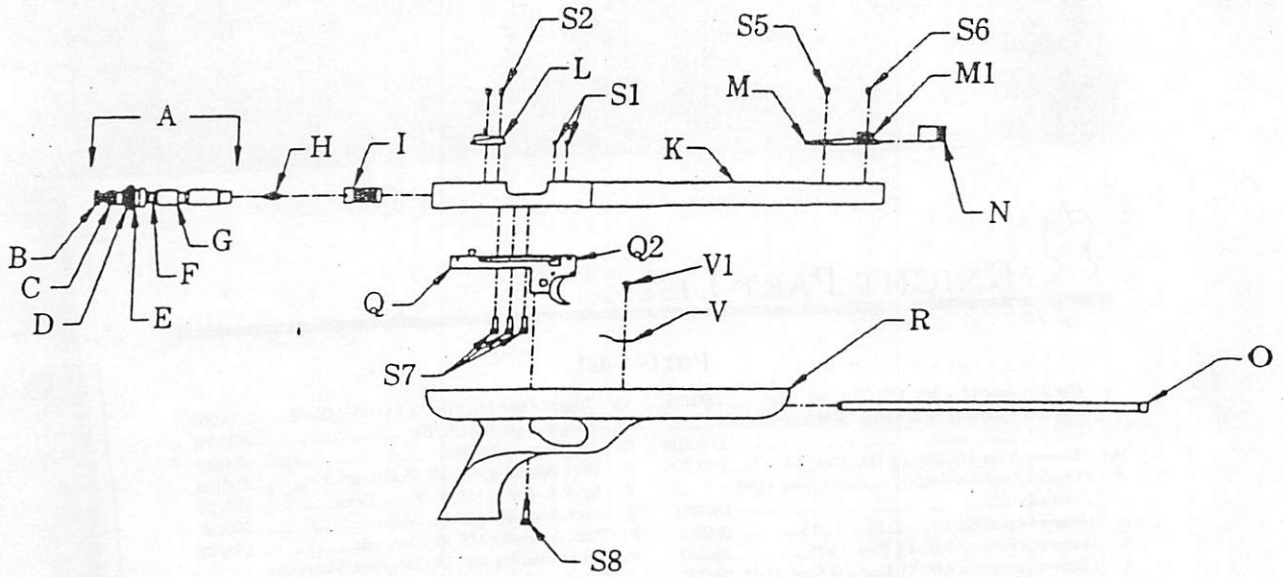
45-260 70 GRAINS FFFG BLACK POWDER BC=.183 STANDARD DEVIATION=26

	<u>VELOCITY</u>	<u>ENERGY</u>	<u>TRAJECTORY</u>
MUZZLE	1202	834	
25 YARDS	1149	762	0.45
50 YARDS	1103	702	0
75 YARDS	1063	653	-2.22

CONSISTENT LOADING PRESSURE RESULTED IN THE CONSISTENT STANDARD DEVIATION.

THE 44-240 AT 50 AND 60 GRAINS OF FFFG WAS VERY ACCURATE. WHEN THE 45-260 WAS SHOT AT 60 AND 70 GRAINS OF FFFG THE GROUP SHOT APPROXIMATELY TWO INCHES HIGHER.

Knighi HK-94 Hawkeye Pistol



- | | |
|-----------------------------------|---------------------------------|
| A. Hammer Assembly | R. Stock |
| B. Hammer Screw | S1. Plug Screws (3) |
| C. Secondary Safety | S2. Screw, 260-STD |
| D. End Cap | S3. Screw, 160-STD |
| E. End Cap O-Ring | S5. Screw, 130-STD |
| F. Hammer Spring | S6. Screw, 350-STD |
| G. Hammer | S7. Trigger Mounting Screw |
| H. Nipple | S8. Stock Screw |
| I. Breech Plug | U. Base Weld Nut |
| J. Receiver | V. Flat Ramrod Retaining Spring |
| K. Receiver/Barrel | V1. Ramrod Spring Screw |
| L. Rear Sight with screw | |
| M. Front Ramp | |
| M1. Front Bead | |
| N. Front Hood | |
| O. Ramrod | |
| P. Ramrod Guide | |
| Q. Trigger | |
| Q2. Trigger Pull Adjustment Screw | |



(Figure A)



Parts List

A.	Hammer Assembly, BK, L.K, Blue, 5/8.....	090200
A.	Hammer Assembly, MK-85, HK Stainless Steel, 5/8.....	090201
A.	Hammer Assembly, MK-85, HK, Blue, 5/8.....	090202
A.	Hammer Assembly, MK-95, Stainless Steel, 11/16.....	090203
A.	Hammer Assembly, BK, L.K, Blue, 11/16.....	090205
A.	Hammer Assembly, MK-85, Blue, 11/16.....	090207
A.	Hammer Assembly, MK-85, Stainless Steel, 11/16.....	090208
A.	Hammer Assembly, MK-86, Blue, 11/16.....	090213
A1.	Hammer Assembly, MK-95, Stainless Steel, 11/16.....	090204
	("Post-Fire").....	090204
B.	Hammer Screw, All Models, Blued.....	000870
B.	Hammer Screw, All Models, Stainless Steel.....	000880
C.	Secondary Safety, All Models, Blued.....	000850
C.	Secondary Safety, All Models, Stainless Steel.....	000860
D.	End Cap, MK-85, BK, L.K, HK, Blued.....	000810
D.	End Cap, MK-85, HK, Stainless Steel.....	000820
D.	End Cap, MK-86, Blued.....	000815
D.	End Cap, MK-95, Stainless Steel.....	000825
E.	End Cap O-ring, MK-85, BK, L.K, HK.....	000813
F.	Hammer Spring, MK-85, BK, L.K, HK.....	000790
F.	Hammer Spring, MK-95, MK-86.....	000795
G.	Hammer, BK, L.K 5/8.....	000720
G.	Hammer, BK, L.K 11/16.....	000721
G.	Hammer, MK-85, 5/8.....	000722
G.	Hammer, MK-85, 11/16.....	000723
G.	Hammer, MK-95 with "Post-Fire" Ignition System.....	000724
G.	Hammer, MK-86, MK-95 with percussion system.....	000725
H.	Nipple 1/4 x 28 Knight Red Hot Nipple (1 pack).....	900013
I.	Breech Plug, All Calibers, 11/16.....	900021
I.	Breech Plug, .45/.50 Caliber, 5/8.....	900023
I.	Breech Plug, .54 Caliber, 5/8.....	900024
I.	Breech Plug, 12 Gauge Shotgun, 11/16.....	900022
I2.	Breech Plug, "Post-Fire" Ignition System.....	000626
J.	Receiver, MK-86, Blued.....	000050
K1.	Barrel, MK-86 - .50 Caliber, blued.....	000385
K1.	Barrel, MK-86 - .54 Caliber, blued.....	000485
K2.	Barrel, MK-86 - 12 gauge shotgun, blued.....	000155
KK.	Extra Fall Choke - MK-86 Shotgun Only.....	000090
L.	Sight, Rear w/ blade, MK-85, MK-95, MK-86.....	0008701
L.	Sight, Family, L.K, BK.....	0008800
L.	Sight, Rear w/ blade, HK.....	0008704
M.	Sight, Front ramp, MK-85, MK-95, MK-86.....	0009400
M.	Sight, Front ramp, HK.....	0009420
M1.	Sight, Bead 281, MK-85, MK-95, MK-86.....	0009600
M1.	Sight Bead .313, HK.....	0009700
M2.	Sight Bead, MK-86 Shotgun.....	0009450
N.	Hood, Front Sight, MK-85, MK-86, MK-95, HK.....	010000
O.	Ramrod, 20" Aluminum.....	010061
O.	Ramrod, 22" Aluminum.....	010071
O.	Ramrod, 24" Aluminum.....	010081
O.	Ramrod, 12" Aluminum.....	010091
P.	Ramrod Guide, MK-85, MK-86, Blue.....	000891
P.	Ramrod Guide, MK-85, MK-95, Stainless.....	000901
P.	Ramrod Guide, L.K, BK.....	000890
Q.	Trigger Assembly, MK-85, MK-95, MK-86.....	090260
Q.	Trigger Assembly, L.K, BK.....	015060
Q.	Trigger Assembly, HK.....	090264
R.	Stock Assembly, MK-85, Shadow Black.....	090100
R.	Stock Assembly, MK-85, Forest Green.....	090120
R.	Stock Assembly, MK-85, Walnut.....	090130
R.	Stock Assembly, MK-85, Composite.....	090140
R.	Stock Assembly, MK-85, Composite, Mossy Oak.....	090170
R.	Stock Assembly, MK-85, Composite, Realtree All Purpose.....	090171
R.	Stock Assembly, HK-92, Composite.....	090141
R.	Stock Assembly, L.K-93, Fiber-Lite.....	090151
R.	Stock Assembly, L.K-93, Mossy Oak Treestand.....	090154
R.	Stock Assembly, L.K-93, Realtree All Purpose.....	090155
R.	Stock Assembly, MK-95, Composite.....	090180
R.	Stock Assembly, MK-95, Mossy Oak Treestand.....	090181
R.	Stock Assembly, MK-95, Realtree All Purpose.....	090182
R.	Stock Assembly, MK-86, Composite, Black.....	090149
R.	Stock Assembly, HK, Shadow Black.....	090192
S1.	Plug Screws (Set of 5).....	090253
S2.	Screw, 260-STD.....	010030
S3.	Screw, 160-STD.....	010020
S4.	Screw, 197-STD.....	010022
S5.	Screw, 130-STD.....	010010
S6.	Screw, 350-STD.....	010050
S7.	Trigger Mounting Screw, MK-85, BK, L.K, MK-86, MK-95.....	008700
S7.	Trigger Mounting Screw, HK (3 required).....	008699
S8.	Trigger Guard Screw (2 required).....	010140
S9.	Stock Screw.....	010210
S10.	Barrel Lock Screw (MK-86).....	008510
T1.	Swivel Stud, Rear, Blue.....	010160
T2.	Swivel Stud, Front, Blue.....	010150
U.	Base Weld Nut.....	010232
V.	Flat Ramrod Retaining Spring, MK-85, MK-95, BK, L.K, ..	010242
V.	HK, MK-86.....	010245
V1.	Ramrod Spring Screw, HK.....	010120
W.	Trigger Guard, Composite, BK, L.K.....	010120
W.	Trigger Guard, Metal, MK-85, MK-86, MK-95, Blue.....	010130
W.	Trigger Guard, Metal, MK-85, MK-95, Silver Satin Finish.....	010131
X.	Recoil Pad, MK-85, Brown.....	010220
X.	Recoil Pad, MK-85, Black.....	010260
Y.	Bolt Assembly, ("Post-Fire" Ignition System).....	090230
Y1.	Bolt Handle, ("Post-Fire" Ignition System).....	000660
Z.	Plunger Retention Screw Assembly, ("Post-Fire" Ignition System).....	008400

For details on current Knight Rifle Accessories, see your local dealer or call Knight Rifles at (515) 856-2626.

Knight HK-94 Hawkeye Pistol

The perfect companion for your Knight Rifle. The Hawkeye Pistol is a high performance pistol with many of the same features as Knight Rifles.

Specifications:


Caliber:	.50 Only
Barrel:	Precision cut rifled 12" barrel with 1:20" twist.
Steel:	Certified rifle grade blued steel or stainless steel
Receiver:	Drilled and tapped for easy scope mounting.
Recommended Scope Mounts:	Knight two piece #900715 / two piece * Weaver #45 and #55 / two piece Redfield Midline #45
Safeties:	Patented Double Safety System
	• Trigger Safety
	• Secondary Hammer Safety
Breech:	Open breech with fully removable stainless steel breech plug for easy cleaning.
	Patented in-line ignition system
Ignition:	Hardened Stainless Steel
Hammer:	Adjustable for pull weight
Trigger:	Fully adjustable metal rear sight and front ramp with brass bead and removable hood.
Sights:	Refer to current catalog
Stock:	Same as XP 100 Remington or T/C Contender "Super 14"
Holster:	3.25 Pounds
Weight:	20"
Overall Length:	Refer to Pistol Loading on page 39
Loading:	Black Powder FFg and Pyrodex 'P'
Powders:	70 Grains
Maximum Powder Charge:	Accessory Kit (combo tool, cleaning jag & extension, Allen wrench, 5 sample bullets) video, and 5 plug screws.
Included in Packaging:	Limited Lifetime Warranty with extended service policy
Warranty:	Spacing of receiver holes for mounting scope bases:
	• - .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.

Assembly of Hawkeye Pistol


1. Install Your Ignition System.

When reinstalling the breech plug, place a film of high temperature synthetic breech plug grease on the threads of the breech plug. 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 (I) is firmly against the back of the barrel. Do not over tighten or the breech plug will become difficult to remove.

 **Warning:** Be sure the breech plug is screwed all the way into the receiver.

Failure to do so may cause damage to the muzzleloader or serious harm to the shooter or bystanders.

Insert the nipple (H) 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 firmly against the breech plug.

 **Warning:** Do not over tighten or the nipple will become difficult to remove.

2. Install your trigger assembly.

To install the trigger, use the 3 trigger mounting screws (S7) and assemble the trigger assembly (Q) to the receiver. Tighten until the trigger assembly is firm against the receiver. Make sure it is aligned with the receiver.

3. Install your hammer assembly

To install your hammer assembly, place the trigger safety in the forward "Fire" position. While pulling the trigger back, slide the hammer assembly (A) into the receiver and screw the end cap (D) clockwise into place.


4. Attach your barreled action to the stock.

To install your barreled action into the stock, place the barreled action into the stock (R) and tighten the stock screw (S9). Install the ramrod (O).


Adjustable Trigger (Refer to diagram on page 36)

Your Knight Rifle has a crisp adjustable trigger that has been preset at the factory for a clean release at approximately 2 1/2 pounds. Trigger pull can be adjusted up to 4 pounds. (Sear engagement must be adjusted by the factory or certified gunsmith only)

Pull Weight: Screw (Q2), on your HK-94 assembly drawing, is the trigger pull weight adjustment screw. To adjust, release locking nut, and turn adjustment screw clockwise to increase the trigger pull or turn the adjustment screw counter-clockwise to decrease the trigger pull.

 **Warning:** Do not reduce trigger pull lower than 2 1/2 pounds. To do so could result in an accidental discharge, causing injury or death to the shooter or bystanders.




Loading Your Hawkeye Pistol

 **Warning:** Read all Basic Safety Rules of Muzzleloading (page 4) before proceeding with loading your muzzleloading pistol.

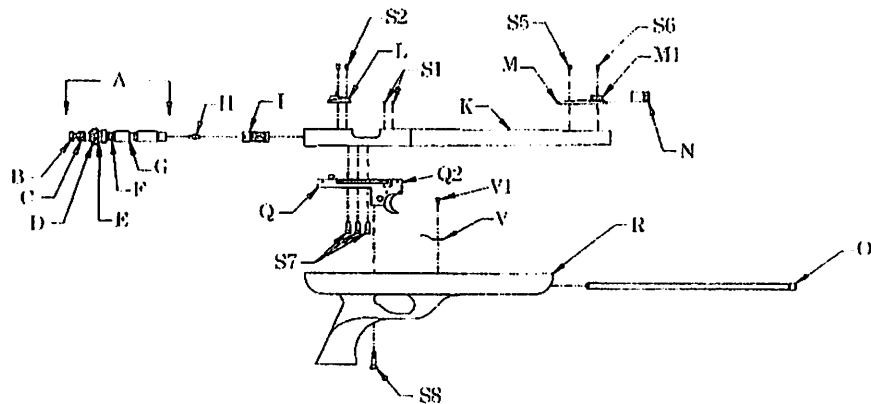
Each time your pistol has been cleaned and oiled, it is necessary to free the nipple and breech plug firing holes from any oil and debris prior to its use. This is done as follows:

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 pistol pointed in a safe direction, place (I) 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. Remove the cleaning jag from your ramrod prior to loading.

Your Pistol Is Now Ready For Loading

5. Be sure the trigger safety and the secondary safety systems are on safe.
6. Place your foot on a raised sturdy surface to raise your knee. Place the butt of your pistol on your thigh and use your leg as support while you load your pistol, keeping the muzzle pointed in a safe direction. (See Fig. A on page 36)
7. Using your Knight powder measure, set it to the recommended load. (Between 50 and 70 grains).  **Warning:** Never use smokeless powder. Use only Black Powder FFFg or Pyrodex 'P'.
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 in 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 Bullet Starter.
12. Using a hand over hand motion, drive the bullet down onto the powder charge using the concave end of the ramrod.  **Warning:** Bullet must be firmly seated on the powder charge. Do not pound or bounce the ramrod on the bullet as 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 pistol is pointed in a safe direction, pull the hammer assembly rearward until hammer locks into firing position.
15. Double check your trigger and secondary safeties and be sure that both are on safe before placing a #11 percussion cap on the nipple.
16. Using the Knight capper, place the #11 cap on the nipple. Note: Your pistol is now armed.
17.  **Warning:** Be sure to keep muzzle pointed in a safe direction away from the body during loading.

Knight HK-94 Hawkeye Pistol



- | | |
|-----------------------------------|---------------------------------|
| A. Hammer Assembly | R. Stock |
| B. Hammer Screw | S1. Plug Screws (3) |
| C. Secondary Safety | S2. Screw, 260-STD |
| D. End Cap | S3. Screw, 160-STD |
| E. End Cap O-Ring | S5. Screw, 130-STD |
| F. Hammer Spring | S6. Screw, 350-STD |
| G. Hammer | S7. Trigger Mounting Screw |
| H. Nipple | S8. Stock Screw |
| I. Breech Plug | U. Base Weld Nut |
| J. Receiver | V. Flat Ramrod Retaining Spring |
| K. Receiver/Barrel | VI. Ramrod Spring Screw |
| L. Rear Sight with screw | |
| M. Front Ramp | |
| M1. Front Bead | |
| N. Front Hood | |
| O. Ramrod | |
| P. Ramrod Guide | |
| Q. Trigger | |
| Q2. Trigger Pull Adjustment Screw | |

(Figure A)



Disassembly of Hawkeye Pistol

Thoroughly study the diagrams and acquaint yourself with the different parts and terminology of your Knight Hawkeye Pistol before attempting disassembly or assembly.

During the disassembly and assembly of your muzzleloader, it is advisable to use a padded vise or a Knight Field Vise to remove and reinstall the breech plug. Be sure to place all small parts in a pan to avoid losing them.

1. Remove the barreled action from the stock.
The barreled action is held in the stock by a single stock screw (S8). Remove this screw and carefully separate the barrel assembly from the stock (R). Set the stock aside and remove the ramrod (O) from the barrel assembly and set aside.
2. Remove the trigger assembly.
To remove the trigger assembly (Q), remove the 3 trigger mounting screws (S7), and lift the trigger assembly from the receiver.
3. Remove the Hammer assembly.
To remove the hammer assembly (A), unscrew the end cap (D) in a counter-clockwise direction. Grasp the secondary safety (C) and pull the hammer assembly backwards with a slight twisting motion, removing the hammer from the receiver.
4. Remove the nipple.
To remove the nipple (H), 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.
5. Remove the breech plug.
To remove the breech plug (I), place the barreled receiver into a padded vise, or a Knight Field Vise, 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.) Note: 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.

⚠ Caution Failure to use the proper breech plug may cause damage to the muzzleloader or serious harm to the shooter or bystanders.