



**WHITE  
MUZZLELOADING**

Performance Others Can Only Shoot For

**W SERIES  
SUPER 91**



# WHITE'S W SERIES SUPER 91

## OFFICIAL INSTRUCTION MANUAL

CONGRATULATIONS! YOU HAVE PURCHASED THE MOST ADVANCED MUZZLELOADING RIFLE AVAILABLE TODAY. THE SUPER 91 IS THE RESULT OF INNOVATIVE THINKING AND MODERN COMPUTERIZED PRODUCTION TECHNIQUES. IT WILL SERVE YOU FOR A LIFETIME.

The White SUPER 91 borrows its basic design from Pauly's 1812 British patent for an in-line action, while the SUPERSLUG traces its roots to Joseph Whitworth's elongated bullet and ballistics of 1853. The SUPER 91 features modern ordnance grade stainless and chrome-moly steels crafted in Classic Mauser style combined with an English style stock adapted for contemporary hunting use. The SUPER 91 throws our heavy, elongated SUPERSLUG with markedly superior downrange velocity and retained energy. The SUPERSLUG'S superior accuracy, offers near Minute-Of-Angle (MOA) performance with careful loading practices.

The SUPER 91 is available in corrosion resistant stainless steel or bead blasted blued chrome-moly steel. SUPER 91 stocks are manufactured from American Hardwood Black Laminate or Kevlar/Fiberglass Composite. The Laminated stock is finished with a tough urethane finish requiring little special care. The Kevlar Composite stock is lighter than the Laminated stock and is impervious to weather. Our Kevlar Composite stock is strong and damage resistant with a tough epoxy black finish and fancy checkering. The SUPER 91 is drilled and tapped for easy scope or peep sight mounting. It is equipped with our QUICKSLING for easy and comfortable hunting afield, and is supported by a host of White Accessories for loading, cleaning, maintenance and hunting. The White SUPER 91 is designed for and operates at higher pressures than ordinary traditional or in-line round ball, sabot or conical rifles. Do not use these instructions or any of our loading data for any rifle other than the SUPER 91. The SUPER 91 is an advanced design, made with special modern steels for increased strength. Don't allow these advantages to make you complacent! You must carefully study and follow the instructions and warnings contained in this manual before using the SUPER 91.

- ALWAYS ASSUME THE RIFLE IS LOADED
- ALWAYS POINT THE RIFLE DOWN RANGE TOWARD A SAFE AREA

- ALWAYS WEAR HEARING AND EYE PROTECTION
- ALWAYS BE SURE THE BULLET IS SEATED ON THE POWDER CHARGE
- NEVER USE "SMOKELESS" PROPELLANTS

DO NOT DISREGARD THESE WARNINGS AND INSTRUCTIONS! TO DO SO WILL ENDANGER YOUR HEALTH AND SAFETY AND THE HEALTH AND SAFETY OF OTHERS. MUZZLELOADING RIFLES ARE DANGEROUS FIREARMS. FAILURE TO COMPLY WITH THESE INSTRUCTIONS AND PRACTICING SAFE FIREARM HANDLING TECHNIQUES CAN CAUSE DEATH OR SERIOUS INJURY TO THE SHOOTER AND/OR BYSTANDERS.

### **THE SUPER 91 DOUBLE SAFETY SYSTEM:**

The SUPER 91 is equipped with two (2) separate safety systems. These safety systems completely lock the sear and hammer. To engage these safeties, point your rifle in a safe direction. Using your thumb, pull the Primary Safety, located on the right rear side of the receiver, rearward toward the buttstock. This is the Primary "SAFE" position. Grasp the hammer cocking handle pulling it firmly to the rear until it catches. The rifle is now cocked. Place the Secondary Safety to the "SAFE" position by pulling the hammer cocking handle from the cocked position rearward toward the buttstock while turning it clockwise until it stops. This is the Secondary "SAFE" position. To disengage these safeties, again pointing your rifle in a safe direction and using your thumb, push the Primary Safety forward toward the muzzle. This is the Primary Safety "Fire" position. Grasp the hammer cocking handle and pull it rearward toward the buttstock while turning it counter clockwise. While still holding the hammer cocking handle lower the hammer to the "Cocked/Fire" position. This is the Secondary Safety "FIRE" position. The rifle is ready to Fire!

Thoroughly acquaint yourself with the operations of the two (2) safety systems. **WARNING! DO NOT PROCEED WITH THIS MANUAL UNTIL YOU HAVE A CLEAR UNDERSTANDING OF THE OPERATION OF BOTH SAFETY SYSTEMS! ALWAYS USE THESE SAFETY SYSTEMS WHILE HANDLING THIS FIREARM!**

### **LOADING THE SUPER 91:**

Easy loading is one of the outstanding features of the SUPER 91. While the rest of the industry continued to foster the "pound the bullet down the barrel" loading technique, White Shooting Systems invented the "White Muzzleloading System." The "old way" uses a conical; sabot bullet, or patched round ball that is larger than the bore. This requires beating the bullet into the muzzle with a "short starter" and then using the ramrod to pound the projectile down onto the powder charge. This deforms the bullet's nose, loads it crooked and is an impossible way to achieve shot to shot consistency. The "White Muzzleloading System's" secret is a careful match of barrel, bullet and action to precisely deliver effective and consistent loading, accuracy and down range performance. Instead of cutting the rifling in the bullet while loading, White SUPERSLUGS are cut by the rifling when fired. This important difference precisely delivers easy loading, shot to shot consistency, deadly accuracy, and greater safety. The "White's Muzzleloading System" (patent pending) is revolutionizing the muzzleloading industry and will change the way you hunt. While your SUPER 91 will shoot any conical bullet, sabot/pistol bullet or patched round ball accurately and effectively, our SUPERSLUG conical bullet delivers greater accuracy and greater energy, at greater distances than any bullet, sabot or ball currently avail-

able. SUPERSLUGS are a key element of the "White Muzzleloading System."

Before loading check the barrel for cleanliness and obstructions. To make sure the rifle is not loaded, drop the ramrod down the barrel. It should be flush or protrude slightly from the muzzle. Now, place a patch on the ramrod/cleaning jag and push it all the way to the breech of the barrel. Leaving the patched ramrod down the barrel, grasp the hammer cocking handle, pulling it rearward until it catches in the cocked "FIRE" position. Engage the Primary Safety. Place a # 11 percussion cap on the nipple. Point the muzzle into the air or in another safe direction muzzle up, disengage the Primary Safety and fire the cap. (We recommend that you use CCI or RWS #11 percussion caps.) Remove the patched ramrod/cleaning jag from the barrel. The patch should be charred. This tells you that the nipple is clear and that the patch has absorbed any residual oil, lube or cleaning solvent from the bore.

Next, fire a squib load. A squib load is a POWDER ONLY load. Use only Black or Pyrodex powder. The squib load fouls the bore and clears the barrel and breech. NEVER LOAD A PROJECTILE WHILE FIRING A SQUIB LOAD.

Load '30 to 40 grains by volume of Black or Pyrodex Powder down the muzzle. Grasp the hammer cocking handle, pulling it rearward until it catches in the cocked "FIRE" position. Engage the Primary Safety, place a #11 percussion cap on the nipple, point the rifle into the air, disengage the Primary Safety and fire. YOU MUST FIRE A SQUIB LOAD BEFORE LOADING A PREVIOUSLY CLEAN BARREL!

Now, placing the buttstock of the rifle on the ground, pour a previously measured charge of Black or Pyrodex Powder into the muzzle. We recommend starting with 80 grains of Black FFg or Pyrodex RS or P by volume. THE MAXIMUM LOAD FOR THE SUPER 91 IS 150 GRAINS IN .50 CALIBER, 125 GRAINS IN .45 CALIBER AND 100 GRAINS IN .41 CALIBER BY VOLUME.

**BLACK FFG OR PYRODEX RS OR P POWDERS.** Place a SUPERSLUG base first into the muzzle and push it into the barrel with your thumb. Place the ramrod on the bullet and push the bullet onto the powder. Apply firm pressure to the ramrod, firmly seating the bullet onto the powder. DO NOT TAP OR BOUNCE THE RAMROD ON THE BULLET I This deforms the nose of the bullet and will effect your accuracy. SIMPLY PRESS THE RAMROD VERY FIRMLY ON THE BULLET FOR SECURE BULLET SEATING. WARNING! THE BULLET MUST BE SEATED ON THE POWDER CHARGE! FAILURE TO DO SO COULD CAUSE INJURY OR DEATH TO THE SHOOTER AND I OR BYSTANDERS.

Pointing your rifle in a safe direction, engage the Primary Safety located on the right rear side of the receiver to the "SAFE" position. Grasp the hammer cocking handle pulling it firmly to the rear until it catches. The rifle is now cocked. Engage the Secondary Safety to the "SAFE" position. Using a straight-line capper, cap the nipple with a #11 percussion cap. The rifle is loaded and ready to fire!

WARNING! NEVER CARRY A CAPPED AND LOADED RIFLE WHILE IN A

VEHICLE. RIDING A MOTORCYCLE OR HORSE (EVEN IF THE RIFLE IS IN A SCABBARD). OR WHILE CLIMBING STEEP TERRAIN OR INTO A TREESTAND. IT'S SAFEST NOT TO CAP UNTIL YOU ARE READY TO SHOOT.

### **FIRING THE SUPER 91:**

Once the rifle is loaded, firing is accomplished by identifying the target, disengaging the Primary and Secondary Safeties, taking careful aim, and finally squeezing the trigger. The recoil of the SUPER 91, depending upon the load and bullet, will range from that of a 20 gauge shotgun field load to a 12 gauge 3 inch magnum. In any event, always hold the rifle firmly against the shoulder.

We suggest that you sight in your new rifle at twenty-five (25) yards. Your three (3) shot group should be on point of aim at twenty-five (25) yards. Move to one hundred (100) yards and sight your rifle to fire a three (3) shot group 4 inches above point of aim. This will put your rifle dead on at about one hundred fifty (150) yards and about twelve (12) inches low at two hundred (200) yards. These are approximate figures. They could vary depending upon the load, bullet and sight picture. You will want to practice shooting your new SUPER 91 extensively to learn how your particular rifle shoots and which loads it likes best. Adjust your loads up or down in five (5) grain increments by volume until the most accurate load is found. The load and sight picture may be adjusted entirely to your liking and comfort level. You will be surprised at the level of accuracy and performance that the SUPER 91 will deliver.

Although the SUPER 91 comes equipped with fully adjustable hunting sights, best accuracy is obtained by using sighting equipment that allows you to see the target better. The SUPER 91 is drilled and tapped for our side-mounting SUPERPEEP, manufactured exclusively to our specifications by Lyman Mfg.

The SUPERPEEP features total steel construction and custom knurled target! hunting knobs for easy elevation and windage adjustment in the field. The SUPERPEEP mounts easily to the right rear of the receiver. For increased peep sight performance, add our Adjustable Aperture QUICKPEEP to the SUPERPEEP. Our QUICKPEEP is like a camera aperture, simply dial in the desired opening from a large hole for low light conditions to a small hole for bright conditions. Shooters with vision problems will find the QUICKPEEP a helpful accessory that brings game clearly into focus.

The SUPER 91 is also drilled and tapped for commonly available Weaver scope mounts (Rear Receiver # 35, Front Receiver # 46 and Barrel Breech # 11), or our exclusive QUICKLEVER Quick Detachable Scope Mounting System. QUICKLEVER was tested by the NRA, and performed flawlessly, returning to within a half (1/2) minute of angle when detached and re-attached. QUICKLEVER makes cleaning a snap, and provides your SUPER 91 with increased versatility to meet every hunting condition. The SUPER 91 is capable of Minute-Of-Angle (MOA) groups from the bench with careful loading and practice. For optimum accuracy use a bench rest, telescopic

sights, carefully measured (by weight) charges and very careful shooting. These measures are rarely needed under hunting conditions, and are not ordinarily recommended. Still, in-the field groups should average 1.5 to 2.5 MOA or less, depending upon the shooters ability and choice of sights. The "White Muzzleloading System", provides a quick second shot when using our QUICKCHARGERS. QUICKCHARGERS are designed for both hunting afield and shooting at the range. They provide clean, dry and visible storage for bullet and powder and can be put into action quickly and effectively. Using QUICKCHARGERS, and with a little practice, reloads of 15 seconds or less are obtainable.

SUPERSLUGS are shipped in see-through protective containers called SUPERKEEPERS. SUPERKEEPERS are soft and pliable allowing for visible, clean storage and easy access to SUPERSLUG bullets. SUPER KEEPERS will keep your pocket or possible bag lube-free and your SUPERS LUGS dent and dirt free. SUPERSLUGS are lubricated with our SUPERLUBE 2000. It is a non- petroleum lubricant that helps deliver superior accuracy while automatically cleaning the bore. SUPERLUBE enables the precise fitting SUPERSLUG to be pushed easily onto the next powder charge, despite a previously fired and dirty barrel. SUPER LUBE helps to hold the bullet firmly in place while seated on the powder charge. As the rifle is fired, SUPERLUBE softens the fouling, blowing the powder residue out the barrel with every shot. The result is a consistently cleaner bore, less fouling and greater accuracy.

### **BALLISTICS:**

Enclosed with your rifle is a Ballistic Table which illustrates the performance of various powder charges and bullets. For an example, the SUPER 91 with a 90 grain load of Black FFg Powder and a 45 caliber 460 grain SUPERSLUG, leaves the muzzle at 1244 fps with 1589 ftllbs (over three quarters of a ton) of muzzle energy. It arrives 100 yards down range at a velocity of 1102 fps and 1247 ftllbs of energy. With a 120 grain charge of Black FFg Powder and the same .45 caliber 460 grain SUPERS LUG, the SUPER 91 shoots at a muzzle velocity of 1421 fps with 2073 ft/lbs (over a ton) of energy and strikes two hundred (200) yards down range with 1158 ft/lbs (over half a ton) of energy. Other SUPERSLUG calibers are comparable. SUPERSLUG is the only muzzleloading bullet that has over 1000 ft/lbs of energy at two hundred (200) yards!

### **CLEANING THE SUPER 91 AT THE RANGE OR A FIELD:**

The SUPER 91 stainless steel model reduces the effects of corrosion and gives you extra time to clean your rifle after shooting. Stainless steel is water resistant, handling harsh weather with ease. However, you must remember that even stainless steel will rust and corrode. Give your new SUPER 91 the care and maintenance necessary to provide you with flawless performance afield.

When using Black Powder, the bore can become fouled with continued shooting. The barrel may require periodic cleaning during shooting to remove this accumulated black powder fouling. It is recommended that the barrel be routinely swabbed with a moist patch about every 3-6 shots. This is not as necessary when using Pyrodex Powder. A cleaning jag/bullet puller is

built right into the ramrod for your cleaning convenience afield. In addition, depending on use, the rifle should be completely disassembled after shooting. This should include removing the Instafire nipple/breech plug. You will need a QUICKWRENCH or 3/8 inch box end wrench or socket with long extension.

For emergency cleaning afield keep our QUICKVALVE Flush Tube and our SUPER-T-GRIP Ramrod Extension handy. The QUICKVALVE's rubber tube slips over the nipple and the valve can be dropped in a small jar of cleaning solvent or any available water source. The SUPER-T-GRIP is light weight and provides an excellent handle for the ramrod during cleaning or bullet pulling.

### **DISASSEMBLY OF THE SUPER 91:**

- 1.** To remove the barreled action from the stock first remove the ramrod, and detach the sling from the barrel. This can be done by removing the sling bracket retaining screw on the barrel sling bracket. Then remove the two (2) action screws located at the mid-forestock and at the rear of the trigger guard. The barreled action can now be lifted out of the stock.
- 2.** To remove the hammer assembly from the receiver, disengage the Primary Safety located to the right rear side of the action. Pull the hammer cocking handle rearward, cocking the action. Engage the Secondary Safety by continuing to pull the hammer rearward while turning the hammer in a clockwise direction moving the Secondary Safety to the "Safe" locked position. Lift . 'the rear flange of the hammer assembly retaining spring with your thumb and pull the hammer assembly to the rear and out of the action. The hammer assembly retaining spring is located on the left side of the action. NOTE: The hammer assembly retaining spring needs to be lifted only 1/8 inch for hammer assembly release.
- 3.** To disassemble the hammer assembly, tightly hold the hammer housing with one hand and carefully pull the hammer rearward while turning the hammer counterclockwise to the off safe" position and slowly lowering the hammer to the uncocked position. Be careful to keep your fingers away from the hammer sear located on the underside of the hammer. Unscrew the hammer from the hammer assembly by holding the hammer housing in one hand while turning the hammer counterclockwise with the other hand. Be careful because the hammer is under tension by the hammer spring. After the hammer is removed, remove the hammer spring from the assembly which was exposed by the removal of the hammer. Then remove the hammer cocking handle/sear from the hammer assembly.
- 4.** To remove the Instafire nipple/breech plug from the barreled action, place QUICKWRENCH or a 3/8 inch socket and extension or 3/8 box end wrench on the nipple/breech plug nut and turn counterclockwise. Remove it from the action' cut out or from the rear of the action. {When replacing the nipple/breech plug into the barrel, make sure you place SUPERGREASE 2000 in the nipple/breech plug threads and

tighten the nipple/breech plug snugly ... finger tight only. DO NOT OVER TIGHTEN THE NIPPLE/BREECH PLUG!

**5.** To remove the trigger, turn the barreled action upside down and using a Allen wrench, turn the trigger assembly retaining screw counterclockwise and remove. The trigger assembly screw is located toward the muzzle end of the trigger assembly.

To re-assemble follow steps 1-5 in reverse order. Do not attempt to remove the barrel from the action and never alter the Primary or Secondary Safeties. These items should only be repaired at the factory.

### **CLEANING YOUR SUPER 91:**

After disassembly, place the nipple/breech plug, hammer, hammer spring, hammer cocking handle and hammer housing into a bowl of SUPERCLEAN 2000 Concentrated Black Powder Cleaning Solution and let soak. Dip a patch in a solution of our SUPERCLEAN 2000 Concentrated Black Powder Cleaner and placing it on the ramrod/cleaning jag, work the patch back and forth the full length of the barrel. Repeat this step until barrel is sparkling clean. Using a soaked patch and tooth brush, clean the action thoroughly, especially around the breech area. After cleaning, spray the inside and outside of the barreled action with a water displacing oil such as Rusty Duck. Run an oily patch down the bore with your ramrod/cleaning jag, followed by a dry patch. Finish and "Season" the bore by running a patch coated with our SUPERLUBE 2000 down the barrel. Using a tooth brush and soaked patches, scrub each part put to soak earlier. Make sure all powder residue is cleaned off. Dry each part and lubricate with a water displacing oil.

Special attention should be given to the trigger, as it is not made of stainless steel and is subject to rust and corrosion. Inspect the trigger for function and lubricate the trigger sear, trigger and safety plate. If hunting in inclement conditions, lubricate the trigger assembly often. Make sure to protect the trigger from rust and corrosion.

**WARNING! RUST AND CORROSION CAN CAUSE THE TRIGGER TO FAIL, THEREBY CAUSING THE FIREARM TO MALFUNCTION WHICH MAY CAUSE SERIOUS INJURY OR DEATH TO THE SHOOTER AND/OR BYSTANDERS.**

Now that your SUPER 91 is clean, you can re-assemble your rifle by reversing the disassembly steps in the disassembly section of this manual. Before replacing the Instafire nipple/breech plug, be sure to grease the breech plug threads with our SUPERGREASE 2000. The active polymers in our SUPERGREASE 2000 allows for easier removal and cleaning while at home or in the field. It also prevents excessive blow-back while firing. When installing the nipple/breech plug into the barrel, tighten and snug the nipple/breech plug finger tight. DO NOT OVER TIGHTEN THE NIPPLE/BREECH PLUG! After assembly is complete, inspect the sights, sling, ramrod and stock for



function and finish. Lightly coat the exterior of the rifle with a water displacing oil or for extended storage periods coat the rifle with a film of SUPERGREASE 2000. Keep your SUPER 91 stored in a cool dry place out of the reach of children. Never store it in a leather or wool lined gun case. Your rifle is now clean and ready for your next hunting or shooting adventure.

### **SUPERSLUGS EFFECT ON GAME:**

Many big game animals have been harvested using the SUPERS LUG over the last 20 years. Animals as large as Moose, Kodiak Brown Bear and Buffalo succumb readily to its persuasion. The SUPERSLUG is manufactured with our exclusive "Enhanced Lead" for greater accuracy, controlled expansion, deeper penetration and deadly down range stopping power. It will completely penetrate smaller big game like deer and elk and will fully penetrate large animals like Moose, Bear and Buffalo. Under normal conditions SUPERSLUG will mushroom to about twice its caliber diameter and retain almost all of its weight. The wound channel will be large and deep and the shock effect is substantial. SUPERSLUGS as well as the entire "White Muzzleloading System" was designed to effectively take down the largest big game cleanly and humanely. By using White Muzzleloading Rifles and Bullets you will reduce wounding loss and help preserve our precious wildlife resource.

### **WHITE SHOOTING ACCESSORIES AND EQUIPMENT:**

White Muzzleloading Systems has a complete line of Rifles and hunting and shooting accessories. Our rifles include the W Series Super 91 and G Series Whitetail and Bison models in both blue and stainless steel. Our bullet line features our SUPERSLUGS in .41, .45, and .50 caliber. SUPERSLUGS are made precisely for our Wand G Series Rifles and other muzzleloaders with a 1 in 24 or faster rate of twist. Our BUCKBUSTER Bullets in .45, .50 and .54 caliber are made for CVA, TIC, Knight and other muzzleloaders with a 1 in 28 or slower rate of twist. While these rifles fall short of the "White Muzzleloading System", BUCKBUSTER Bullets will enhance your other rifles performance.

Other accessories include our QUICKCHARGERS in .41, .45, .50 and .54 caliber, SUPER-T-Grip Ramrod Extension, QUICKWRENCH Nipple / Breech Plug Tool, QUICKVALVE Flush Tube and Valve, SUPERLUBE 2000, SUPERGREASE 2000, SUPERCLEAN 2000, QUICKSLING, SURESLING, QUICKLEVER Scope Mounts and Rings, SUPERPEEP Receiver Mounting Hunting Peep Sight and QUICKPEEP Adjustable Peep Sight Aperture. You may purchase our complete line of accessories at your local Dealer or if unavailable in your area, contact us directly. Please see our Catalog for a complete description and full details. Our Custom Shop performs every type of custom modification including drop-in SUPERSLUG barrels for TIC, CVA and other rifles. Call us for details!

### **LIMITED LIFETIME WARRANTY:**

White Muzzleloading Systems warrants the SUPER 91 to be free from defects in material and workmanship for the life of the first registered owner. See the Warranty Certificate enclosed with your rifle for details. Enclosed is a warranty registration card. Please take a moment and fill out the card and return it to us immediately. This activates your lifetime warranty, places you on our mailing list and provides us with valuable marketing information. We appreciate your prompt reply.

**HELP-LINE:**

While White Muzzleloading Systems is leading the Industry In muzzleloading technology, we do not want to lose touch with our customers. If you need a Dealer or Distributor near you, have a recommendation, question or need to place an order, please call our Customer Service Department Toll Free (800) 213-1315. For Warranty Service call the same toll free number and ask for the Warranty Department. For your convenience we have a 24 Hour Fax Line (435) 722-3054. We are open Monday through Friday 8:00 A.M. to 5:00 P.M. Mountain Time. During Lunch and after hours an answering machine will answer your calls for your convenience. Please leave your name, number, nature of the call and best time to reach you. Our customer Service Representatives return calls promptly.

Remember the number (800) 213-1315.

The easy loading, clean shooting, extremely accurate White G SERIES WHITETAIL OR BISON will provide you with a life-time of hunting enjoyment.

The "White Muzzleloading System" provides *"Performance That Others Can Only Shoot For"* Thank you for your purchase!

"Dedicated To The Hunters And Sportsmen Who Care About The Wildlife They Pursue."



**The ABC's of Muzzleloading Hunting**

**Accuracy** - You can hunt confidently knowing your White rifle was designed for accuracy and built for the "Perfect Shot"

**Ballistics** - White's SUPERSLUG and BUCKBUSTER Bullets will put superior ballistic principles to work for you afield for cleaner kills.

**Conservation** - White Rifles, Bullets and Accessories are designed to reduce wounding loss, thereby preserving the future of our precious wildlife resource.

**WHITE SHOOTING SYSTEMS, INC.**

P.O. Box 277

1099 East Highway 40

Roosevelt, UT 84066

Phone: (800) 213-1315 or (435) 722-3085

Fax: (435) 722-3054