



TVM Suggested Cleaning Method

Supplies: fouling scraper, patches, wax, quality gun oil, and a toothpick.

- Apply **wax** to stock and leave on throughout the process.
 - Remove lock bolt(s), gently remove the lock, clean both sides of the lock and **oil** inside.
 - Replace the lock. The **top/center** lock bolt is the **longer** bolt. **Never over tighten the bolts.**
*Doing so may compress the wood and could affect the function of the **lock and trigger.***
 - Run a **fouling scraper** down barrel, turn to right a couple of times, then empty fouling from barrel.
 - Place a **toothpick** in vent liner. Pour **warm soapy water** down barrel and let **sit** about 5 minutes.
 - **Pour** water from barrel. Remove toothpick and run **patches** down the barrel. When the patches come out **clean and dry**, run an **oiled** patch down the barrel.
 - **Buff** wax from the stock & apply **gun oil** to all metal surfaces.
1. Use **only** black powder with your **flintlock**. You may use black powder or a black powder substitute (such as Pyrodex) with your **percussion lock**.
 2. Always **discharge** the load down range and **clean** your muzzleloader before storing it. **Never overtighten the lock bolts.** Doing so may compress the wood & could affect the lock/trigger function.
 3. **IMPORTANT – Never discharge** a short-started load from a muzzleloader. If the load cannot be pushed to the breech, remove it with a ball puller. Mark your ramrod to ensure the load is seated. Failure to seat the ball may result in damage to the muzzleloader and possibly cause personal injury.
 4. **Always** treat a muzzleloader as if it is loaded. Point it only at what you intend to shoot.
 5. If you are inexperienced, **ASK FOR HELP!** Experienced users will be glad to share their knowledge.
 6. Always wear **ear protection** while shooting a muzzleloader.
 7. **Never** smoke or have an open flame nearby while shooting.
 8. **Never** use alcoholic beverages before or during the use of a muzzleloader.
 9. You must **work up a load** for your muzzleloader. Start with a powder charge equal to 1 grain per caliber (example - .50 caliber = 50 grains).
 10. TVM's recommended **maximum loads**:
.32, .36, .40, .45 - Maximum load not to exceed 75 grains
.50, .54, .58, .62 - Maximum load not to exceed 100 grains
The customer accepts full responsibility for any load that he/she puts in a TVM built muzzleloader that exceeds the recommendation.
 11. TVM recommends a .015 to .018 **patch thickness** according to ball size.
Example: If you have a .50 caliber rifle and use a .490 ball size, we recommend a .015 to .018 patch. If you have a .50 caliber rifle and use a .495 ball, we recommend a .01 to a .012 patch.
 12. Consider keeping the box & packing materials in case you need to ship the muzzleloader in the future.
 13. This message is made in lieu of all warranties, expressed or implied. Neither seller or manufacturer shall be liable for any loss, injury, or damage, direct or consequential, arising from the use or misuse of any product sold by Tennessee Valley Muzzleloading. User shall determine the stability of the circumstances under which the product is used. The user assumes all risks and liabilities whatsoever in connection therewith. The foregoing may not be changed by anyone, except by the company officers of both seller and manufacturer.