

MARK V[®] RIFLES

OWNER'S MANUAL

INTRODUCTION

Thank you for buying a Weatherby® firearm, and welcome to the family. We realize that you had many products to choose from and hope you feel as we do, that you purchased the finest quality production firearm on the market today.

When Roy Weatherby, Sr. started this company in 1945, it was as a means to turn his revolutionary vision of rifle design and cartridge performance into practical realities.

At the time, we're sure that he had little idea that the Weatherby® name would come to be one of the most respected and revered in the firearms industry. That is a level of respect we appreciate, and you have our assurance that it will not be taken for granted.

This Owner's Manual is designed to assist you in learning how to use and care for your Weatherby® rifle. Please read it very carefully and follow all instructions and safety warnings.

In closing, let us assure you that we are committed to the hunter, shooter, and sportsman and to delivering the uncompromising craftsmanship, performance, and value that you require in all that we do.

Good Shooting!

Ed Weatherby

Value le

Adam Weatherby

- SAFETY -FIRST AND FOREMOST

FIREARMS ARE DANGEROUS WEAPONS, WHICH CAN CAUSE SERIOUS INJURY OR DEATH. WHEN USING ANY FIREARM, SAFETY MUST BE YOUR FIRST AND CONSTANT CONCERN.

READ AND UNDERSTAND THE FOLLOWING SAFETY RULES

KNOW YOUR FIREARM. Before assembling or using your Weatherby® Mark V® rifle, read and understand the instructions and safety warnings contained in this Owner's Manual in order to learn how to use the firearm safely and correctly.

ALWAYS TREAT YOUR FIREARM AS IF IT WERE LOADED. Use the manual safety as outlined in this manual. **Never move the safety to "FIRE" until <u>YOU</u> are ready to fire.**

KEEP THE MUZZLE POINTED IN A SAFE DIRECTION. The safe direction may be "up" on some occasions, and "down" on others. Never point the muzzle toward anything not intended as a target.

USE ONLY THE CORRECT AMMUNITION FOR YOUR FIREARM. Be sure to use only the correct ammunition for your Weatherby® Mark V® rifle as stamped on the side of the barrel.

ALWAYS UNLOAD YOUR FIREARM WHEN NOT SHOOTING. Never transport or store a loaded firearm in a vehicle or building. Unload your firearm before climbing a fence or obstruction, or entering a slippery area.

MAINTAIN YOUR FIREARM. Keep the barrel clean and free of obstructions. Clean your firearm regularly and have it inspected periodically to make sure it is mechanically correct and functioning properly. Worn or damaged parts can be dangerous.

DO NOT MAKE ADJUSTMENTS. Never make changes or alterations to your firearm. Use only Weatherby® parts. Do not make any adjustments to the trigger or change the shape or size of the sear or other parts. Repairs or adjustments should be performed only by a qualified gunsmith.

MAKE YOURSELF SAFE. Always wear eye and ear protection when shooting or plinking. If your firearm is equipped with a muzzle brake or is "ported", wear ear protection at all times. Never drink alcoholic beverages before or during shooting.

REMEMBER - FIREARMS SAFETY DEPENDS ON YOU!!

INDEX

• Introduction	Page 3
• Safety-First and Foremost	Page 5
• Index	Page 6-7
• General Overview	Page 8
• Manual Safety Operation	Page 9
• Ammunition	Page 9-10
 Operating Instructions Inserting Bolt Assembly into Receiver Removing the Bolt Assembly from Receiver Checking for and Clearing Bore Obstructions To Check the Barrel for Obstructions If There is an Obstruction To Load the Magazine To Feed a Cartridge from the Magazine into the Chamber Firing the Rifle Unloading the Rifle 	Page 10 Page 10-11 Page 11 Page 11 Page 11 Page 12 Page 12 Page 13 Page 13
 Disassembly Instructions Disassembly of the Mark V® Rifle Disassembly of the Bolt Assembly Cleaning of the Bolt Assembly Assembly of Bolt After Cleaning Cleaning Your Weatherby® Mark V® Rifle Cleaning the Bore Cleaning the Outside of the Barrel and Receiver Cleaning Muzzle Brakes Cleaning the Receiver Cleaning the Magazine Cleaning the Trigger Guard Assembly Cleaning/Lubricating the Trigger Assembly Cleaning the Stock Rust Prevention and Repair 	Page 14 Page 14-15 Page 15-16 Page 15-16 Page 16-17 Page 17 Page 17 Page 18
 Assembly of Weatherby® Mark V® Rifle Assembly of Barrel and Receiver to Stock 	Page 19 Page 19

INDEX

Trigger Assembly Adjustment	Page 19-20
Storing Your Rifle	Page 20-21
 Suggestions for Getting Top Performance from Your Weatherby® Mark V® Rifle 	Page 21
• Exploded View Diagram	Page 22
• Part List	Page 23
Weatherby Service Policy	Page 24
• Ten Commandments of Firearms Safety	Page 24-25
Exercise Extreme Caution	Page 25



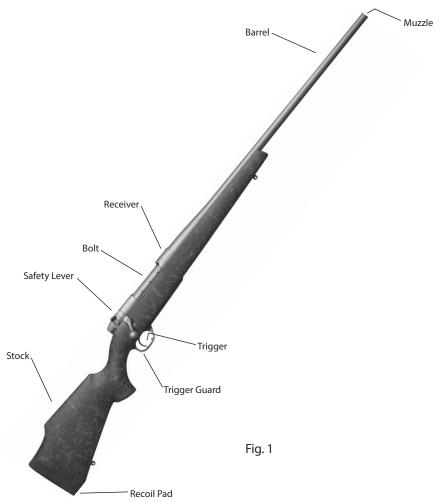
NEVER PLACE SAND BAGS DIRECTLY BEHIND THE PISTOL GRIP OR USE A FIXED, OR IMMOVABLE TYPE REST WHEN SHOOTING THIS RIFLE. PORTIONS OF THE STOCK, INCLUDING THE PISTOL GRIP MAY DIRECTLY CONTACT THE REST. ON FIRING, RECOIL CAN DRIVE THE RIFLE BACK INTO THE REST OR SAND BAGS WITH GREAT FORCE, TRANSMITTING RECOIL ENERGY TO ALL POINTS OF CONTACT. UNREPAIRABLE DAMAGE TO THE PISTOL GRIP AND/OR STOCK MAY RESULT. SUCH DAMAGE IS **NOT COVERED UNDER WARRANTY.**

WEATHERBY® MARK V® RIFLE

The Weatherby® Mark V® is a bolt action rifle primarily used for hunting and target shooting.

With proper care as outlined in this manual, your Mark V® rifle should give you many years of dependable use and shooting pleasure.

The picture below shows the main parts of the Mark V° rifle. Please refer to it when reading this manual. It will aid in understanding the terminology.





DISCHARGING FIREARMS IN POORLY VENTILATED AREAS, CLEANING FIREARMS, OR HANDLING AMMUNITION MAY RESULT IN EXPOSURE TO LEAD OR OTHER SUBSTANCES KNOWN TO CAUSE BIRTH DEFECTS, REPRODUCTIVE HARM AND OTHER SERIOUS PHYSICAL INJURY. HAVE ADEQUATE VENTILATION AT ALL TIMES. WASH HANDS THOROUGHLY AFTER EXPOSURE.

MANUAL SAFETY OPERATION

The manual safety on the Mark V° rifle is a lever-type safety located on the side of the bolt sleeve. When in proper condition and correctly engaged in the "SAFE" position, the manual safety blocks the firing pin and prevents accidental discharge under normal usage.



NEVER DEPEND ON ANY MECHANICAL SAFETY MECHANISM OR DEVICE TO PREVENT THE DANGERS OF CARELESS HANDLING OR POINTING A FIREARM IN AN UNSAFE DIRECTION.

WHEN MANIPULATING THE MANUAL SAFETY, KEEP ALL FINGERS OUTSIDE THE TRIGGER GUARD. THE RIFLE WILL FIRE IF THE TRIGGER IS PULLED WHEN THE SAFETY IS NOT IN THE "SAFE" POSITION.

THE SAFETY SHOULD ALWAYS BE IN THE "SAFE" POSITION EXCEPT WHEN THE RIFLE IS INTENDED TO BE FIRED.

NEVER PULL THE TRIGGER WHEN THE SAFETY IS IN THE "SAFE" POSITION.

The manual safety can only be moved between the "SAFE" and "OFF SAFE" positions when the rifle is cocked. To minimize the possibility of accidental discharge, it is strongly recommended that the safety always be placed in the "SAFE" position except when the rifle is intended to be fired.

To engage the manual safety, use your thumb to rotate the safety lever rearward until the safety lever is horizontal with the barrel and covering the red dot. Figure 2 depicts the safety in the "On Safe" position on a right hand action.

To disengage the safety, use your thumb to rotate the the safety forward from the horizontal "On Safe" position until the safety lever is perpendicular to the barrel, and the red dot is exposed. Figure 3 depicts the safety lever in the "Off Safe" position on a right hand action.



Fig. 2





Fig. 3

Weatherby® Mark V® rifles are chambered for numerous calibers and cartridges ranging from .223 Remington to .460 WBY MAG (Weatherby® Magnum), for which factory-loaded ammunition manufactured in accordance with U.S. industry standards is commercially available.

Exercise care to assure that you are using only the correct ammunition for your rifle. Always make certain that the caliber and cartridge indicated on the factory loaded cartridge headstamp matches the caliber marked on the barrel of your rifle.



USE OF INCORRECT OR OVERLOADED AMMUNITION CAN RESULT IN DEATH OR SERIOUS INJURY AND DAMAGE TO YOUR FIREARM DUE TO EXCESSIVE PRESSURE. EVEN THE STRONGEST FIREARM CAN BE "BLOWN UP" BY EXCESSIVE PRESSURE. USE ONLY FACTORY-LOADED AMMUNITION OF THE CORRECT CALIBER AS MARKED ON THE RIFLE'S BARREL.

ALWAYS WEAR SHOOTING GLASSES AND HEARING PROTECTORS WHEN SHOOTING.

AMMUNITION NOTICE

WEATHERBY, INC. SPECIFICALLY DISCLAIMS RESPONSIBILITY FOR ANY INJURY OR DAMAGE WHATSOEVER OCCURRING IN CONNECTION WITH, OR AS A RESULT OF THE USE OF FAULTY, OR NON-STANDARD, OR "REMANUFACTURED," OR HAND-LOADED OR RELOADED AMMUNITION, OR OF AMMUNITION OTHER THAN FOR WHICH THE FIREARM WAS ORIGINALLY CHAMBERED.

OPERATING INSTRUCTIONS

INSERTING BOLT ASSEMBLY INTO RECEIVER

Keeping the muzzle of the rifle pointed in a safe direction and your fingers out of the trigger guard and away from the trigger (except as instructed below):

- 1. Inspect the rifle and remove any ammunition present in the chamber or magazine (refer to Unloading the Rifle, page 13).
- 2. Fit the front end of the bolt assembly into the rear of the receiver.
- 3. Pull the trigger rearward as far as possible.
- 4. Slide the bolt assembly forward into the receiver about three inches and release the trigger.
- 5. As the bolt assembly moves forward in the receiver, slightly rotate the bolt assembly right or left until the bolt stop engages the bolt stop groove on the underside of the bolt.
- 6. Once the bolt stop is engaged the bolt assembly is ready to be pushed forward to the fully closed position.

REMOVING THE BOLT ASSEMBLY FROM RECEIVER

Keeping the muzzle of the rifle pointed in a safe direction, and your fingers out of the trigger guard and away from the trigger (except as instructed below):

- 1. Move the safety lever to the "Off Safe" position (refer to Manual Safety Operation, page 9).
- 2. Open the bolt by rotating the bolt handle upward until the bolt rotation stops.
- 3. Move the bolt to the rear until the bolt hits against the bolt stop.

- 4. Inspect the rifle to insure no rounds are in the magazine or chamber (refer to Unloading the Rifle, page 13).
- 5. Pull the trigger rearward as far as possible
- 6. Move the bolt straight rearward until the bolt clears the receiver

CHECKING FOR AND CLEARING BORE OBSTRUCTIONS

The barrel of your rifle should always be checked for obstructions before assembly, before loading and **immediately** following any occurrence in the field, which might result in mud, dirt or other debris entering the bore.

WARNING!! NEVER ATTEMPT TO CHECK FOR OR CLEAR A BORE OBSTRUCTION BY LOADING A CARTRIDGE INTO THE CHAMBER OF THE BARREL AND FIRING! IF THERE IS A BORE OBSTRUCTION THIS WILL CAUSE EXCESSIVE PRESSURES WHICH MAY RESULT IN DEATH OR SERIOUS INJURY AND DAMAGE TO YOUR RIFLE.

TO CHECK THE BARREL FOR OBSTRUCTIONS

Keep the muzzle of the rifle pointed in a safe direction, and your fingers out of the trigger guard and away from the trigger at all times.

- 1. Move the manual safety to the "OFF SAFE" position (refer to Manual Safety Operation, page 9).
- 2. Unload the rifle (refer to Unloading the Rifle, page 13).
- 3. Remove the bolt (refer to Removing the Bolt Assembly from the Receiver, page 10).
- 4. Visually check the bore for obstructions by looking through the barrel from the breech end through the muzzle.

IF THERE IS AN OBSTRUCTION

- 1. Push a rifle bore cleaning tool through the bore from the breech end until the end of tool exits the muzzle.
- 2. If the obstruction cannot be easily cleared, contact our Weatherby® Service Department.

LOADING THE RIFLE



USE OF INCORRECT OR OVERLOADED AMMUNITION CAN RESULT IN DEATH OR SERIOUS INJURY AND DAMAGE TO YOUR FIREARM DUE TO EXCESSIVE PRESSURE. EVEN THE STRONGEST FIREARM CAN BE "BLOWN UP" BY EXCESSIVE PRESSURE. USE ONLY FACTORY-LOADED AMMUNITION AS MARKED ON THE RIFLE'S BARREL.

THE ACCIDENTAL CHAMBERING AND DISCHARGE OF CARTRIDGES OF THE WRONG CALIBER CAN RESULT IN DAMAGE TO YOUR RIFLE AND POSSIBLE INJURY TO THE SHOOTER. CARRY ONLY THE PROPER CALIBER AMMUNITION WITH YOU WHEN SHOOTING.

ALWAYS WEAR SHOOTING GLASSES AND HEARING PROTECTORS WHEN SHOOTING.

AMMUNITION NOTICE

WEATHERBY, INC. SPECIFICALLY DISCLAIMS RESPONSIBILITY FOR ANY INJURY OR DAMAGE WHATSOEVER OCCURRING IN CONNECTION WITH, OR AS A RESULT OF THE USE OF FAULTY, OR NON-STANDARD, OR "REMANUFACTURED," OR HAND-LOADED OR RELOADED AMMUNITION, OR OF AMMUNITION OTHER THAN FOR WHICH THE FIREARM WAS ORIGINALLY CHAMBERED.

TO LOAD THE MAGAZINE

Keep the muzzle of the rifle pointed in a safe direction, and your fingers out of the trigger guard and away from the trigger at all times.

- 1. Move the manual safety lever to the "OFF SAFE" position (refer to Manual Safety Operation, page 9).
- 2. Open the bolt by lifting the bolt handle until it stops. Pull the bolt to the rear until it stops. Visually check to make sure no cartridge is in the chamber.
- 3. Insert desired number of cartridges of the proper caliber (*refer to Ammunition*, *page 9*) into the magazine by pressing them individually into the top of the magazine box. The cartridges must be loaded with the bullets pointed toward the barrel.
- 4. Use your thumb or fingers to press the top cartridge down as you push the bolt forward so the bolt does not strip the cartridge from the magazine and load it into the chamber.

TO FEED A CARTRIDGE FROM THE MAGAZINE INTO THE CHAMBER

Keep the muzzle of the rifle pointed in a safe direction and your fingers out of the trigger guard and away from the trigger at all times.

- 1. Visually check the manual safety to make sure it is in the "OFF SAFE" position (refer to Manual Safety Operation, page 9).
- 2. Open the bolt by lifting the bolt handle until it stops. Pull the bolt to the rear until it stops.
- 3. Close the bolt by pushing the bolt handle forward. As the bolt moves forward it will strip a round from the magazine and feed it into the chamber. With the bolt fully forward rotate the bolt handle down until it stops. The rifle is now ready to fire. Keep your fingers out of the trigger guard and away from the trigger until you are ready to fire the rifle.
- 4. Immediately rotate the safety lever rearward to the "On Safe" position (refer to Manual Safety Operation, page 9).

WARNING!! IF THE MANUAL SAFETY IS NOT IN THE "SAFE" POSITION, THE RIFLE IS READY TO FIRE. DO NOT TOUCH THE TRIGGER UNTIL YOU ARE READY TO FIRE.

FIRING THE RIFLE

Pulling the trigger fires the rifle when a cartridge is in the chamber.

- 1. With a cartridge of the proper caliber and type in the chamber of the barrel, and *keeping the muzzle of the rifle pointed in a safe direction and your fingers out of the trigger guard and away from the trigger,* rotate the manual safety lever to the "Off Safe" position (*refer to Manual Safety Operation*, page 9).
- 2. Hold the recoil pad snugly to your shoulder and carefully point the muzzle of the rifle at your intended target, using properly installed sights or riflescope to aim.
- 3. Squeeze (pull) the trigger with steadily increasing pressure until the rifle fires.

WARNING!! DO NOT TOUCH THE TRIGGER UNTIL YOU ARE ACTUALLY READY TO FIRE THE RIFLE, OR AN UNINTENDED DISCHARGE MAY OCCUR, POSSIBLY RESULTING IN DEATH OR INJURY TO A BYSTANDER, OR DAMAGE TO AN UNINTENDED TARGET.

UNLOADING THE RIFLE

ALWAYS UNLOAD YOUR RIFLE IMMEDIATELY AFTER YOU FINISH SHOOTING.

Keep the muzzle of the rifle pointed in a safe direction and your fingers out of the trigger guard and away from the trigger at all times.

- 1. Move the manual safety lever to the "OFF SAFE" position (refer to Manual Safety Operation, page 9).
- 2. To remove a cartridge from the chamber, open the bolt by lifting the bolt handle until it stops. Pull the bolt to the rear until the bolt stops against the bolt stop, and the cartridge will be ejected from the receiver.
- 3. Visually and manually check to make certain that the bolt has extracted any live round or fired cartridge case from the chamber. If a live round or fired cartridge case remains in the chamber, remove the bolt, (refer to Removing The Bolt Assembly From The Receiver, page 10) and immediately take the rifle to a Weatherby® service center or a qualified gunsmith. Keep the bolt out of the rifle at all times.
- 4. To unload the magazine, open the floor plate by depressing the floor plate latch (refer to Fig. 4). The floor plate will swing out, allowing the cartridges to drop free. Do not allow the cartridges to fall to the ground as they may be damaged or become dirty making loading and chambering more difficult. Subsequent loading of a damaged cartridge may cause a live round to become jammed in the chamber of the firearm resulting in an unsafe condition.
- 5. Visually and manually reconfirm that there are no cartridges remaining in the magazine or chamber.
- 6. Reposition the magazine follower inside the magazine box and close the floorplate.



Fig. 4

WARNING: IF THE BOLT IS PUSHED ALL THE WAY FORWARD AND A CARTRIDGE IS IN THE MAGAZINE, THAT CARTRIDGE WILL BE CHAMBERED AND THE RIFLE CAN BE FIRED. THERFORE, ALWAYS DOUBLE CHECK THE MAGAZINE AND CHAMBER.

DISASSEMBLY INSTRUCTIONS

DISASSEMBLY OF THE MARK V® RIFLE

Before attempting to disassemble your MARK V° rifle, study the exploded view diagram on page 22 of this Owner's Manual to familiarize yourself with the general appearance and position of each part.

- 1. Unload the rifle. (refer to Unloading the Rifle, page 13)
- 2. Move the safety lever to the "Off Safe" position (refer to Manual Safety Operation, page 9).
- 3. Raise the bolt handle and draw the bolt all the way to the rear.

4. VISUALLY CHECK THE CHAMBER AND THE MAGAZINE TO BE CERTAIN THERE ARE NO CARTRIDGES IN THE RIFLE

- 5. Remove the trigger guard assembly and stock.
 - a. Press the floorplate latch (refer to Fig. 4) to open the floorplate.
 - b. With a screwdriver of the proper size, remove the front and rear trigger guard screws.
 - c. Remove the trigger guard assembly from the stock.
 - d. Remove the stock.

DISASSEMBLY OF THE BOLT ASSEMBLY

- 1. Remove the bolt. (refer to Removing the Bolt Assembly from Receiver, page 10)
- 2. Using a square-faced object, push the cocking piece to the rear and rotate it onto its engaging shoulder in the bolt sleeve (refer to Fig. 6).







Fig. 6

- 3. Disengage the bolt sleeve lock by pushing it in with a blunt object or finger and unscrew the bolt a few turns until the firing pin retaining ball is completely exposed.
- 4. Remove the retaining ball and unscrew the bolt body completely from the bolt sleeve.
- 5. Weatherby does not recommend further disassembly except by an Authorized Weatherby® Service Center or qualified gunsmith.

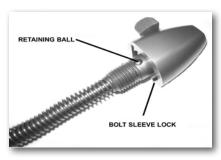




Fig. 7

Fig. 8

CLEANING OF THE BOLT ASSEMBLY

- 1. Clean all parts with a gun cleaning solvent and dry with a clean cloth. Use of a small brush will help in cleaning recesses of the bolt sleeve and firing pin spring.
- 2. Apply a light coat of gun oil.

ASSEMBLY OF BOLT AFTER CLEANING

- 1. Hold the bolt sleeve horizontally with the retaining ball hole "UP". (refer to Fig. 7)
- 2. While firmly holding the cocking piece on its engaging shoulder (*refer to Fig.6*), rotate the firing pin clockwise until one of the firing pin grooves is directly under the retaining ball hole, with the end of the firing pin flush with the rear surface of the cocking piece.
- 3. Examine the bolt sleeve assembly to assure that the rear end of the firing pin is flush with the rear end of the cocking piece. (refer to Fig. 8)
- 4. Insert the retaining ball into the retaining ball hole in the bolt sleeve.
- 5. Screw the bolt body onto the bolt sleeve until it is stopped by the bolt sleeve lock hitting the bolt.
- 6. Push in the bolt sleeve lock and continue screwing the bolt body onto the bolt sleeve until the bolt sleeve stops against the bolt body.
- 7. Unscrew the bolt body from the bolt sleeve (counter clockwise) until the bolt sleeve lock aligns with the bolt sleeve detent slot in the end of the bolt body.

- 8. Rotate the cocking piece off the engaging shoulder of the bolt sleeve allowing the firing pin assembly to move forward. (refer to Fig. 5 & 6)
- 9. Assemble bolt to receiver. (refer to Inserting Bolt Assembly into Receiver, page 10)

Further disassembly of the rifle is not recommended. If further disassembly is required, contact a Weatherby Authorized Service Center or your local gunsmith.

CLEANING YOUR WEATHERBY® MARK V® RIFLE

Any firearm requires regular cleaning and periodic maintenance. To ensure safe and reliable functioning of your Weatherby Mark V® rifle, it is very important that you clean it immediately after each use, and periodically during extended storage periods, to remove powder residue, dirt, dust and excess lubricant, and to prevent rust. During cleaning, inspect components to determine whether they are in proper working order.

A basic cleaning kit consists of proper-sized cleaning rod, bore brush(es) and patches; gun cleaning solvent, gun lubricant, and lint-free cloth. The cleaning rod must have a tip with a slot into which patches can be inserted. Additionally, plastic bristle gun cleaning brushes, cotton swabs and pipe cleaners are very handy tools for cleaning away dirt in hard to reach places.

To properly clean your rifle, it must first be disassembled (refer to Disassembly Instructions, page 14), the parts and components cleaned as discussed below, then reassembled (refer to Assembly of Weatherby® Mark V® Rifle, page 19).

WARNING: APPLY SOLVENTS AND LUBRICANTS PROPERLY AND SPARINGLY. DO NOT SPRAY OR APPLY DIRECTLY ON AMMUNITION. SOLVENTS AND LUBRICANTS MAY AFFECT THE PROPELLANT, CAUSING IT NOT TO IGNITE, BUT THE ENERGY FROM THE PRIMER MAY BE SUFFICIENT TO PROPEL THE PROPELLANT AND BULLET INTO THE BORE OF THE BARREL, CAUSING AN OBSTRUCTION, AND RESULTING IN DAMAGE TO THE RIFLE AND SERIOUS INJURY TO THE SHOOTER AND BYSTANDERS UPON FIRING A SUBSEQUENT CARTRIDGE.

CLEANING THE BORE

- 1. Remove the bolt. (refer to Removing the Bolt Assembly from the Receiver, page 10)
- 2. With a bore cleaning brush of the proper size attached to the cleaning rod, apply gun cleaning solvent to the brush.
- 3. Push the cleaning rod all the way through the bore from the chamber end several times.
- 4. With a clean patch inserted in the tip attached to the cleaning rod, push the rod all the way through the barrel bore from the chamber end until the cloth emerges from the muzzle. Remove the dirty patch and withdraw the rod.
- 5. Repeat step 4 as many times as needed until the patch is clean as it emerges from the muzzle.
- 6. Using a clean patch or lint-free cloth wrapped around the tip of your finger or similarly shaped object, remove all solvent from the muzzle.

- 7. Insert a patch saturated with gun lubricant into the cleaning rod tip and push it through the bore from the chamber end. Remove the patch and withdraw the rod.
- 8. Insert a dry, clean patch into the cleaning rod tip and push it through the bore from the chamber end, to remove excess lubricant. Remove the patch and withdraw the rod.
- 9. Using a clean patch or lint-free cloth wrapped around the tip of your finger or similarly shaped object, apply a light coat of gun lubricant to the muzzle.

WARNING!! Excess lubrication in the bore or chamber of any firearm may create excessive chamber pressures or a partial bore obstruction, resulting in possible damage to the firearm and serious injury to the shooter and bystanders upon firing. **BE SURE ALL EXCESS LUBRICANT HAS BEEN REMOVED.**

CLEANING THE OUTSIDE OF THE BARREL AND RECEIVER

- 1. Using a patch or clean cloth saturated with cleaning solvent, wipe down all accessible surfaces of the barrel and receiver. (A clean tooth brush may be handy for cleaning the corners and recesses of the receiver)
- 2. With a clean, dry, lint-free cloth, remove all cleaning solvent.
- 3. Using a patch or clean cloth, apply a light coat of gun lubricant to the outside surfaces of the barrel and receiver being careful to remove any excess lubricant.

CLEANING MUZZLE BRAKE

If your rifle is equipped with a muzzle brake, use the supplied wrench to unscrew the muzzle brake from the barrel. Turn the muzzle brake counter clockwise to unscrew.

- 1. With a bore cleaning brush of proper size attached to the cleaning rod, apply gun cleaning solvent to the brush.
- 2. Push the brush all the way through the muzzle brake several times. Repeat step 2 as many times as needed until all powder residue has been cleaned from the bore of the brake. Use of a plastic bristle gun cleaning brush will help to clean the threads and exterior of the muzzle brake.
- 3. Using a clean cloth dry the solvent from the brake.
- 4. Insert a patch saturated with gun lubricant into the cleaning rod tip and push it through the muzzle brake. Remove the patch and withdraw the rod.
- 5. Insert a dry, clean patch into the cleaning rod tip and push it through the muzzle brake to remove excess lubricant. Remove the patch and withdraw the rod.
- 6. Using a patch or clean cloth, apply a light coat of gun lubricant to the outside surfaces of the muzzle brake, being careful to remove any excess lubricant.

CLEANING THE RECEIVER

- 1. Using a small lint-free cloth, clean the inside and outside of the receiver with gun-cleaning solvent and dry thoroughly with a clean cloth. Use of a plastic bristle gun cleaning brush will help to clean the recesses of the receiver.
- 2. Using a clean cloth, dry the solvent from the receiver.
- 3. With a clean cloth or patch, apply a light coat of gun lubricant to all accessible surfaces of the receiver.

CLEANING THE MAGAZINE

- 1. Using a lint-free cloth, clean the inside of the magazine, follower and spring with gun-cleaning solvent, and dry thoroughly with a clean cloth.
- 2. With a clean cloth or patch, apply a light coat of gun lubricant to inside surface of the magazine and to the follower and spring.

CLEANING THE TRIGGER GUARD ASSEMBLY

1. Using a small lint-free cloth, clean the outside of the trigger guard assembly and with a clean tooth brush, brush the exposed surfaces of the trigger guard assembly with gun-cleaning solvent; and dry thoroughly with a clean cloth.

CLEANING/LUBRICATING THE TRIGGER ASSEMBLY

1. Using compressed air, blow the internal components of the trigger assembly off to remove any loose dirt and debris.

CAUTION: ALWAYS WEAR EYE PROTECTION WHEN USING COMPRESSED AIR TO AVOID INJURY TO EYES BY FOREIGN OBJECTS.

- 2. Apply some gun cleaning solution such as Gun Scrubber® to the contact surfaces of the Trigger and Sear.
- 3. Using a small cleaning utensil like a Q-tip, clean hard to reach surfaces on the Sear and Trigger.
- 4. Again using compressed air, blow out the trigger assembly to remove dirt and excess cleaning solution.
- 5. Lube all contact points (refer to Fig. 9) with a drop of Shooter's Choice FP 10° lubricant.
- 6. Blow the assembly out one last time using compressed air to remove excess oil.



CLEANING THE STOCK

Usually, wiping the stock with a clean, dry cloth or a silicon cloth is all that is necessary. If you have been hunting or shooting in wet weather, allow the stock to dry thoroughly before storage.

RUST PREVENTION AND REPAIR

During normal maintenance, after a thorough cleaning, allow 2-3 hours at room temperature, for all metal parts to dry completely. Then apply a liberal amount of high grade Gun Oil to all metal parts, wiping off any excess with a clean dry cloth. If rusting does occur it may only be surface rust due to excessive moisture. You may be able to clean it by using a plastic bristle gun cleaning brush and gun cleaning solvent. If you are unable to remove rust on your rifle, please contact a Weatherby Authorized Service Center or your local gunsmith. Immediate attention to this problem is imperative to prevent irreparable rust damage.

DO NOT ALLOW RUST TO GO UNTREATED!

ASSEMBLY OF WEATHERBY® MARK V® RIFLE

ASSEMBLY OF BARREL AND RECEIVER TO STOCK

- 1. With the barreled action resting upside down on a horizontal surface such as a workbench or table, place the stock onto the barreled action, aligning the recoil lug and trigger guard screw holes.
- 2. Insert the magazine box, seating it completely against the receiver.
- 3. Insert the trigger guard assembly with its follower and spring into the stock and hold in place.
- 4. Insert the trigger guard screws and, with a screw driver of proper size, lightly seat the screws while holding the rifle in a vertical position with the butt down. Pull down on the barrel to help seat the recoil lug on the receiver with the mating surface in the stock.
- 5. Tighten the trigger guard screws to the proper torque and in the proper sequence as follows. Always tighten the rear screw first to a torque of 35 inch pounds, followed by a torque of 35 inch pounds to the front screw. For wood and synthetic stocks this is the final torque value that should be used. On composite stocks with aluminum bedding blocks, apply additional torque to 55 inch pounds to the rear screw followed by 55 inch pounds to the front screw.

TRIGGER ASSEMBLY ADJUSTMENT

The MARK V® trigger assembly has a pull weight adjustment screw. The adjusting screw on the bottom of the trigger assembly adjusts for the weight of the trigger pull, and is for your use. The LXX™ trigger is adjustable down to a weight of 2.5 lbs. when the screw is fully backed out and not applying compression force on the trigger spring.



DO NOT ATTEMPT TO ADJUST SEAR ENGAGEMENT, MAKE ANY ADJUSTMENTS OTHER THAN AS DESCRIBED BELOW, OR MODIFY THE TRIGGER ASSEMBLY IN ANY WAY. IMPROPER ADJUSTMENT OR MODIFICATION OF ANY FIREARM TRIGGER ASSEMBLY CAN RESULT IN THE FIREARM DISCHARGING PREMATURELY DUE TO "HAIR TRIGGER", MINOR BUMPS OR MOVEMENT, RESULTING IN SERIOUS INJURY OR DEATH.

The trigger assembly has been set at the factory for weight of trigger pull appropriate for most shooters. If you require a heavier or lighter weight of trigger pull, adjust as follows:

- 1. Unload the rifle (refer to Unloading the Rifle, page 13), remembering to VISUALLY CHECK THE CHAMBER AND THE MAGAZINE TO BE CERTAIN THERE ARE NO CARTRIDGES IN THE RIFLE.
- 2. Remove the trigger guard and stock (refer to Disassembly of Mark V° Rifle, page 14).
- 3. To increase weight of the trigger pull, with a 5/64 Allen wrench turn the weight adjustment screw clockwise until desired weight of trigger pull is established. To decrease weight of trigger pull turn the weight adjustment screw counter-clockwise until desired weight of trigger pull is established (refer to Fig. 9).

Note: The trigger should not be adjusted above about 4 pounds, for too much spring compression can hinder proper bolt stop function. If after trigger adjustment you are unable to remove the bolt from your gun, back the trigger weight screw out until the bolt stop can release the bolt properly when the trigger is pulled all the way back.

4. Replace stock and trigger guard assembly (refer to Assembly of Barrel and Receiver to Stock, page 19).



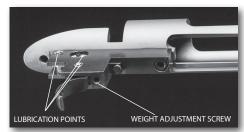


Fig. 9

STORING YOUR RIFLE

Your Weatherby® Mark V® rifle may be stored fully assembled.

If storing your rifle fully assembled, release the pressure on the firing pin spring as follows:

- 1. Make certain the rifle is not loaded by following proper unloading procedures (refer to Unloading the Rifle, Page 13).
- 2. **Pointing the muzzle of the rifle in a safe direction,** while pulling the trigger slightly, close the bolt.

Do not store your rifle in a leather case, scabbard or foam lined gun case. Leather and foam can attract moisture and cause rusting.

For your safety, and the safety of others, <u>store your rifle either in a gun safe</u> <u>or with a lock or other safety device properly installed; and store your ammunition in a separate, locked location.</u>

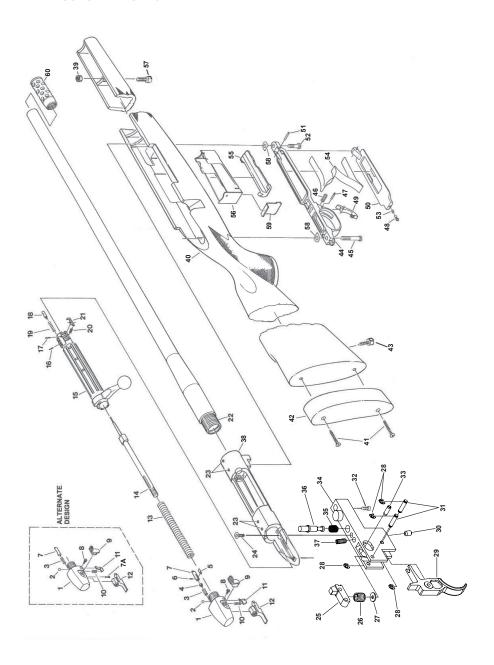
SUGGESTIONS FOR GETTING TOP PERFORMANCE FROM YOUR WEATHERBY® MARK V® RIFLE

- 1. With the rifle unloaded, check and tighten muzzle brake frequently --before, during and after shooting. Muzzle brake threads may loosen with repeated recoil, which may result in changes in point of impact or damage to muzzle brakes or barrel threads with extended use.
- 2. Make sure that all trigger guard screws are properly tightened before firing the rifle. Always tighten the rear guard screw first and the front last (refer to Assembly Of Weatherby® Mark V® Rifle, page19 line 5). Loose trigger guard screws not only contribute to inaccuracy but can also cause stock damage. Check these screws periodically as recoil and atmospheric conditions can cause them to work loose.
- 3. Be sure your scope or iron sights are secure. Loose mount screws are a definite source of inaccuracy. If you experience accuracy problems it is our recommendation that you contact your local gunsmith or an Authorized Weatherby® Service Center to check your scope.
- 4. The condition of the bore is important in obtaining optimum accuracy from you rifle. Be sure to follow the instructions for "Cleaning the Bore" on page 16.
- 5. The accuracy of any firearm can vary depending upon the brand and type of ammunition used in it. If your rifle does not exhibit the consistent point of impact you expect, you should try several brands and types of ammunition, after referring to point 1-3, above, before concluding that it is "inaccurate".

DO NOT ALTER THE STOCK BEDDING IN ANY WAY. Once a stock has been altered, it cannot be reworked by our Service Department.

6. Consult the factory before returning any product for inspection or repair.

EXPLODED VIEW DIAGRAM



PARTS LIST

- 1) Bolt sleeve
- 2) Ball, retaining
- 3) Spring, plunger
- 4) Plunger, bolt sleeve lock
- 5) Retainer leaf, bolt sleeve lock
- 6) Pin, retainer leaf
- 7) Bolt sleeve lock
- 7A) Screw, bolt sleeve lock
- 8) Screw, safety lever
- 9) Safety lever
- 10) Spring, safety hook
- 11) Safety hook
- 12) Cocking piece
- 13) Spring, firing pin
- 14) Firing pin
- 15) Bolt body
- 16) Pin, ejector
- 17) Pin, extractor
- 18) Ejector
- 19) Spring, ejector
- 20) Spring, extractor
- 21) Extractor
- 22) Barrel
- 23) Screw, plug, receiver
- 24) Screw, top trigger housing
- 25) Sear
- 26) Spring, sear
- 27) Washer, sear spring
- 28) E-clip, trigger and sear pin
- 29) Trigger
- 30) Screw, weight adjustment
- 31) Pin, trigger and sear
- 32) Screw, bottom trigger housing
- 33) Pin, sear lock
- 34) Trigger housing
- 35) Spring, bolt stop
- 36) Bolt stop
- 37) Spring, trigger
- 38) Receiver

- 39) Nut, swivel stud front
- 40) Stock
- 41) Screw, recoil pad
- 42) Recoil pad
- 43) Swivel stud, rear
- 44) Trigger guard
- 45) Screw, trigger guard rear
- 46) Spring, floorplate catch
- 47) Pin, floorplate catch
- 48) Post, floorplate
- 49) Latch, floorplate
- 50) Floorplate
- 51) Pin, floorplate
- 52) Screw, trigger guard front
- 53) Spring, post
- 54) Spring, follower
- 55) Follower
- 56) Magazine box
- 57) Swivel stud, front
- 58) Shim
- 59) Insert, magazine box
- 60) Accubrake

WEATHERBY® SERVICE POLICY

Weatherby® is a name that has been synonymous with quality firearms for over 70 years. All Weatherby® firearms are manufactured of the finest materials and have been thoroughly inspected and tested in every phase of production. Because of the confidence we have in our products, Weatherby, Inc. does not provide a written warranty, but rather stands behind its reputation for customer service and satisfaction.

Simply stated, we will consider requests for service or repair of Weatherby® firearms without charge on a case by case basis. A determination will be made taking into consideration such things as the age and condition of the firearm, and the circumstances surrounding its malfunction or other problem.

Weatherby, Inc. will not be responsible for defects resulting from ordinary wear and tear, alterations by unauthorized persons, accidents, misuse, use of incorrect or other than factory loaded ammunition, or failure to provide reasonable and normal maintenance.

Should any Weatherby® firearm require service or repair under this service policy, it must be delivered transportation prepaid to a Weatherby Authorized Service Center (names and addresses supplied by Weatherby upon request). The product must be accompanied by a proof of purchase and a letter explaining the problem. It should also be insured by the owner at the time of shipment, as Weatherby, Inc. can accept no responsibility for damage or loss in transit. Weatherby will pay all charges to return the product to the owner if it is accepted for service or repair without charge under the provisions of this service policy. Weatherby, Inc. also reserves the right to repair or replace any product at our sole discretion.

WEATHERBY, INC. SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR CONTINGENT DAMAGES.

TEN COMMANDMENTS OF FIREARMS SAFETY

Prevention is the solution to hunting and shooting casualties. Every hunting and shooting accident that has occurred could have been prevented. Most such accidents happen as a result of people ignoring basic firearms safety rules. Prevention involves knowing and obeying those basic safety rules. Responsible, knowledgeable, and safe hunters and shooters will learn, remember and follow these simple rules:

- 1. Treat every firearm with the same respect as a loaded firearm.
- Control the direction of your firearm's muzzle. Carry your firearm safely, keeping the safety on until ready to shoot. Keep your finger off the trigger until ready to shoot.
- 3. Identify your target and what is beyond it. Know the identifying features of the game you hunt or the targets you intend to shoot.
- 4. Be sure the barrel and action are clear of obstructions and that you have only ammunition of proper size for the firearm you are carrying.

- 5. Whenever not in use, keep your firearm unloaded and store all ammunition in a separate location.
- 6. Never point a firearm at anything you do not want to shoot. Avoid all horseplay with a firearm.
- 7. Never climb a fence or tree, or jump a ditch or log, with a loaded firearm. Never pull a firearm toward you by the muzzle.
- 8. Never shoot at a flat hard surface or water. During target practice, be sure your backstop or shot-fall area is adequate.
- 9. Store firearms and ammunition separately beyond the reach of children and careless adults.
- 10. Avoid alcoholic beverages or other mood-altering drugs before or while shooting.

EXERCISE EXTREME CAUTION

Heed and follow these additional gun handling warnings whenever using any firearm

- Be sure the barrel is clear of any obstruction before loading. Make it a habit to check the barrel every time before reloading.
- Never place a loaded gun into a vehicle or lean the gun against any object. The gun should be emptied and placed into a case when not in use.
- Keep the safety on at all times. Move the safety to the "FIRE" position only when you are sure that a shot is imminent.
- While loading or unloading, make sure the gun is pointed in a safe direction. Keep your finger off the trigger while operating the action.
- Treat every gun as if it is loaded it may be!
- If you do not thoroughly understand the proper use and care of your gun, seek the advice of someone you know is competent.
- Do not abuse your hunting privileges. Be respectful of others and other people's property.



NOTES



WARNING

CHILDREN ARE ATTRACTED TO AND CAN OPERATE FIREARMS THAT CAN CAUSE SEVERE INJURIES OR DEATH.

PREVENT CHILD ACCESS BY ALWAYS KEEPING GUNS LOCKED AWAY AND UNLOADED WHEN NOT IN USE, IF YOU KEEP A LOADED FIREARM WHERE A CHILD OBTAINS AND IMPROPERLY USES IT, YOU MAY BE FINED OR SENT TO PRISON.



ADVERTENCIA

A LOS NIÑOS LOS ATRAEN LAS ARMAS DE FUEGO Y LAS PUEDEN HACER FUNCIONAR. ELLOS PUEDEN CAUSARSES LESIONES **GRAVES Y LA MUERTE.**

EVITE OUE LOS NIÑOS TENGAN ACCESO A LAS ARMAS DE FUEGO GUARDÁNDOLAS SIEMPRE CON LLAVE Y DESCARGADAS CUANDO NO LAS ESTÉ UTILIZANDO. SI USTED TIENE UN ARMA DE FUEGO CARGADA EN UN LUGAR EN OUE UN NIÑO TIENE ACCESO A ELLA Y LA USA INDEBIDAMENTE, LE PUEDEN DAR UNA MULTA O ENVIARLO A LA CARCEL.

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