



# HAMMERLI®

## OPERATION MANUAL

### Spring Operated Break-Barrel & Under-Lever Pellet Rifles

Shoots Lead Pellets 

Hammerli Model	Caliber	Velocity	Danger Distance
X2	.177 / .22	1100 / 900 fps	600 yds
Storm	.177 / .22	1000 / 820 fps	575 yds
Storm Elite	.177 / NA	1000 / NA fps	575 yds
Razor	.177 / .22	1000 / 820 fps	575 yds
Nova (under-lever)	.177 / NA	1000 / NA fps	575 yds
Titan	.177 / NA	1000 / NA fps	575 yds
Quick	.177 / NA	625 / NA fps	425 yds
490 Express	.177 / NA	495 / NA fps	350 yds

Read this owner's operation manual completely.

This airgun is not a toy. Treat it with the same respect you would a firearm. Always carefully follow the safety instructions found in this owner's manual and keep this manual in a safe place for future use.

Hammerli Air Rifles are recommended for persons that are at least 16 years of age. Adult supervision is required.

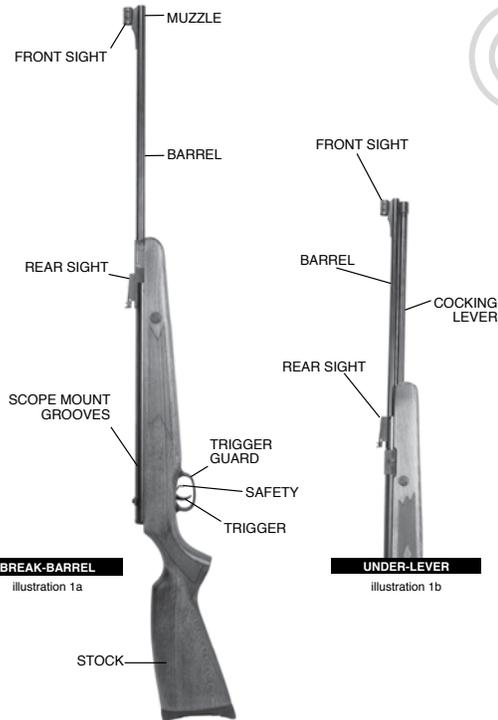
**⚠ WARNING:** THIS AIRGUN IS RECOMMENDED FOR ADULT USE ONLY. MISUSE OR CARELESS USE MAY CAUSE SERIOUS INJURY OR DEATH. MAY BE DANGEROUS UP TO 600 YARDS (548 METERS).

THIS IS A HIGH POWERED AIRGUN FOR USE BY PERSONS 16 YEARS OF AGE OR OLDER. READ ALL INSTRUCTIONS BEFORE USING. THE PURCHASER AND USER SHOULD CONFORM TO ALL LAWS GOVERNING USE AND OWNERSHIP OF AIRGUNS.

**⚠ WARNING:** THIS GUN CAN CAUSE SERIOUS INJURY OR DEATH. READ AND FOLLOW THE INSTRUCTIONS CAREFULLY. DO NOT LOAD A PELLET INTO THE GUN UNTIL YOU ARE READY TO SHOOT. IF YOU DO LOAD A PELLET AND THEN DECIDE NOT TO SHOOT, REMOVE IT EITHER MANUALLY OR BY SHOOTING THE GUN AT A SAFE TARGET. AN UNLOADED, UNCOCKED GUN IS SAFEST. ACCIDENTS HAPPEN FAST, FATALLY WOUNDING SOMEONE IS A TERRIBLE THING. PLEASE SHOOT SAFELY.

Guns differ in their operation and you are never ready to fire any gun until you are thoroughly familiar with it. Read the following operating instructions thoroughly prior to operating.

**⚠ CAUTION:** YOU AND OTHERS WITH YOU SHOULD WEAR SHOOTING GLASSES TO PROTECT YOUR EYES. IF YOU WEAR READING GLASSES, YOU SHOULD WEAR SAFETY GLASSES INTENDED FOR USE OVER NORMAL OPTICAL READING GLASSES.



BREAK-BARREL

illustration 1a

UNDER-LEVER

illustration 1b

**⚠ WARNING:** BE SURE THE GUN IS ALWAYS POINTED IN A SAFE DIRECTION. NEVER POINT THE GUN AT ANY PERSON EVEN IF IT IS UNCOCKED AND UNLOADED. NEVER POINT THE AIR RIFLE AT ANYTHING YOU DO NOT INTEND TO SHOOT. ALWAYS ASSUME AND HANDLE THE GUN AS IF IT WERE LOADED AND READY TO FIRE.

## HAMMERLI AIR RIFLE OPERATION STEPS

### STEP 1. OPERATING THE SAFETY

All Hammerli Air Rifles have an automatic safety. When the gun is cocked it is automatically put "ON SAFE".

There are three types of safeties on the Hammerli Air Rifles listed in this manual. See illustrations 2a and 2b for the safety that is applicable to your Hammerli Air Rifle.

#### Storm, Storm Elite, Razor, Nova, Quick, Titan

These Hammerli Air Rifles have the safety as shown in illustration 2a. These air rifles are automatically put "ON SAFE" when they are cocked. To put "OFF SAFE", push the safety lever forward. Only the Razor and Titan can be put back "ON SAFE" by pulling the safety back toward the trigger.

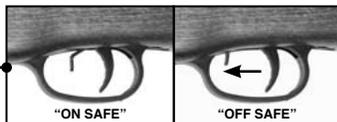


illustration 2a

#### 490 Express

The safety on the Hammerli 490 Express is located on the top of the gun, at the rear of the receiver (see illustration 2b). The 490 Express is automatically put "ON SAFE" when it is cocked. To put "OFF SAFE", push the safety button in (to the right).



illustration 2b

#### Hammerli X2

The safety on the Hammerli X2 is located on the top of the receiver (see illustration 2c).

The safety will be automatically placed in the "ON SAFE" position after the air rifle has been cocked. The safety is not "ON SAFE" unless it is pushed all the way back towards the butt of the stock and the red dot on the safety is not showing. To put the X2 "OFF SAFE", push the safety all the way forward toward the barrel. When you see the red dot on the safety, the air rifle is "OFF SAFE" and can be fired. To manually put the X2 "ON SAFE", push the safety all the way toward the butt of the stock. It is "ON SAFE" when the 'S' is showing and the red dot is not showing.



illustration 2c

**⚠ ATTENTION:** BEFORE YOU PUT YOUR AIR RIFLE "OFF SAFE", BE ABSOLUTELY CERTAIN THAT YOUR AIR RIFLE IS POINTED IN A SAFE DIRECTION AND THAT YOU ARE READY TO FIRE. ONCE YOUR AIR RIFLE IS COCKED AND AUTOMATICALLY "ON SAFE", YOU WILL NOT BE ABLE TO PUT IT BACK "ON SAFE" UNLESS YOU RE-COCK THE GUN (EXCEPT RAZOR, TITAN, AND X2). DO NOT RECOCK THE AIR RIFLE WHILE IT IS LOADED TO PUT IT BACK "ON SAFE". SEE "STEP 1. OPERATING THE SAFETY" FOR INSTRUCTION ON HOW TO PUT THE RAZOR, TITAN, AND X2 BACK "ON SAFE".

### STEP 2. COCKING YOUR AIR RIFLE

**⚠ WARNING:** WHEN COCKING THE RIFLE DO NOT PLACE YOUR HAND OVER OR IN FRONT OF THE MUZZLE. DON'T ALLOW THE MUZZLE TO POINT TOWARD YOU OR ANYONE ELSE DURING COCKING. ALWAYS KEEP THE MUZZLE POINTED IN A SAFE DIRECTION.

**BREAK BARREL AIR RIFLES** — With one hand grasp stock firmly behind trigger guard, avoiding contact with the trigger, and brace the butt end of the stock against your thigh. Grasp the barrel near the muzzle end, just behind the front sight. Pull downward and to the rear until it comes to a solid stop. You will hear a click indicating that the spring piston has been locked into position (see illustration 3a).

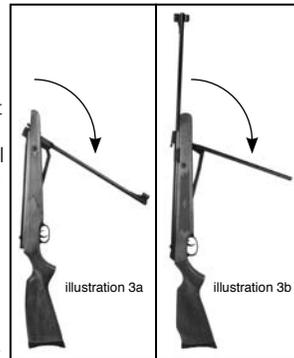


illustration 3a

illustration 3b

#### UNDER-LEVER (HAMMERLI NOVA)

With one hand grasp stock firmly behind trigger guard, avoiding contact with the trigger, and brace the butt end of the stock against your thigh. Grasp the cocking lever near the muzzle end, just behind the front sight. Pull the cocking lever downward until it comes to a solid stop. (see illustration 3b). You will hear a click indicating that the spring piston has been locked into position. Return cocking lever to the closed position ensuring it is locked back into its cocking lever holder located under the muzzle.

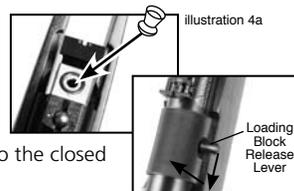


illustration 4a

illustration 4b

### STEP 3. LOADING YOUR AIR RIFLE

**BREAK BARREL AIR RIFLES** — Insert the correct caliber lead pellet carefully into the chamber of the breech end which is exposed when you cock the air rifle (see illustration 4a). Be sure to seat the pellet flush with the breech. Avoid damaging the pellet skirt.



illustration 4c

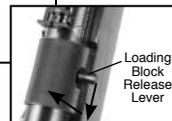


illustration 4b

**UNDER-LEVER AIR RIFLES** — Pull loading block release lever rearward and then lift upward (see illustration 4b). Load correct caliber pellet into the chamber of the breech end and then close loading block securely. (see illustration 4c).

**⚠ WARNING:** NEVER CARRY YOUR AIR RIFLE WHILE COCKED AND/OR WHILE LOADED. IT IS BEST TO COCK THE AIR RIFLE ONLY BEFORE SHOOTING. UNDER NO CIRCUMSTANCES SHOULD YOUR AIR RIFLE BE CARRIED COCKED AND LOADED.

#### STEP 4. CLOSING THE BARREL

Firmly grasp the barrel behind the front sight, return the barrel to its original closed and latched position.

**⚠ CAUTION:** BE CAREFUL TO KEEP FINGERS CLEAR OF COCKING MECHANISM (SEE “PINCH POINTS”, ILLUSTRATIONS 5A AND 5B). GRASP THE BARREL OR LEVER FIRMLY AS YOU COCK IT AND CLOSE IT TO PREVENT IT FROM SNAPPING BACK AND POSSIBLY CAUSING INJURY.

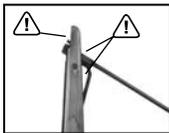


illustration 5a

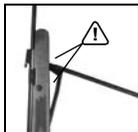


illustration 5b

#### STEP 5. AIM AT A SAFE TARGET

Always aim your air rifle in a SAFE DIRECTION. Always choose your target carefully. It is best to shoot at a paper bullseye target which is attached to a safe backstop. A heavy blanket should be hung behind the target backstop to prevent ricochet should you miss the backstop. Think about what you will hit if you miss the target.

##### ALL HAMMERLI AIR RIFLES

**EXCEPT THE X2** have open sights.

Air rifles with this type of sight are correctly aimed when the front sight blade is positioned exactly in the

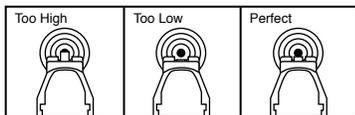


illustration 6a

notch of the rear sight. The top of the front sight blade should be even with the top of the notch in the rear sight. The bullseye should appear to rest on the top of the front sight (see illustration 6a).

**THE X2 AIR RIFLE** has a peep sight and is correctly aimed when the top of the front sight post is positioned exactly in the center of the hole of the rear sight. The top of the front sight post should be even with the top of the hole in the rear sight. The bullseye should appear to rest on the front sight (see illustration 6b).

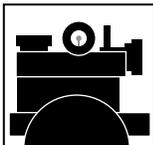


illustration 6b

**⚠ CAUTION:** YOUR BACKSTOP SHOULD BE INSPECTED FOR WEAR BEFORE AND AFTER EACH USE. DISCONTINUE USE IF THE BACKSTOP SURFACE SHOWS SIGNS OF FAILURE. ALWAYS PLACE THE BACKSTOP IN A LOCATION THAT WILL BE SAFE SHOULD THE BACKSTOP FAIL. DISCONTINUE THE USE OF A BACKSTOP IF THE PROJECTILE REBOUNDS OR RICOCHETS.

#### STEP 6. PUT “OFF SAFE”

When you are absolutely sure your air rifle is aimed at a safe target and you are ready to fire, put your air rifle “OFF SAFE” (see STEP 1. OPERATING THE SAFETY).

#### STEP 7. FIRING YOUR AIR RIFLE

Squeeze the trigger.

**⚠ WARNING:** IF A PELLET DOES NOT FIRE AFTER COMPLETING THE OPERATION STEPS, THE GUN MAY BE JAMMED. AN UNFIRED PROJECTILE IN THE BARREL CAN BE A DANGEROUS SITUATION. KEEP GUN POINTED IN A SAFE DIRECTION AND REPEAT ALL OPERATION STEPS EXCEPT STEP 3. IF A PROJECTILE STILL DOES NOT FIRE, DO THE FOLLOWING:

1. Put in “ON SAFE” position (see illustration 2a, 2b, or 2c).
2. Cock the gun and leave the barrel open with the safety in the “ON SAFE” position.
3. Clear barrel by using a cleaning rod (see CARE AND MAINTENANCE).
4. Repeat operation steps.

**⚠ CAUTION:** DO NOT FIRE WITH THE BARREL OPEN. THIS MAY RESULT IN A BENT BARREL AND/OR CRACKED STOCK AND WILL VOID YOUR WARRANTY.

#### UNLOADING A PELLET

Fire the pellet at a SAFE TARGET to unload the gun. If this is not practical, put the air rifle “ON SAFE”, cock the gun to open the barrel, and push the pellet from the chamber by running a cleaning rod through the muzzle end. Insert an RWS Cleaning Pellet and discharge into a safe target.

#### REMOVING A JAMMED PELLET

If a pellet is jammed in the barrel, DO NOT reload the air rifle.

1. Cock the air rifle (see STEP 2. COCKING YOUR AIR RIFLE), point the air rifle in a SAFE DIRECTION, put the air rifle in the “OFF SAFE” position and squeeze the trigger to fire.
2. Break the barrel open slightly (without pulling the barrel all the way down to the point that it cocks) and look down the breech to see if the air rifle is jammed (see illustration 7). NEVER LOOK DOWN THE MUZZLE.
3. If the air rifle is still jammed, insert the correct caliber ramrod into the breech on break-barrels or the muzzle end on an under-lever, and push the jammed pellet out of the muzzle. Do not try to reuse that pellet.

If you are not able to unjam your air rifle, contact Umarex USA's Service Department.

**⚠ CAUTION:** DO NOT ATTEMPT TO REUSE FIRED PELLETS OR PELLETS WHICH ARE DEFORMED. PROJECTILES SUCH AS STEEL SHOT (BBS) AND DARTS MAY DAMAGE YOUR AIR RIFLE AND CAUSE INJURY TO YOURSELF OR BYSTANDERS DUE TO RICOCHETING.

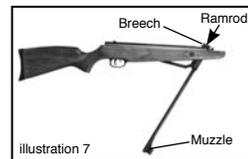


illustration 7

## ADJUSTING THE SIGHTS

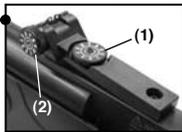
Hammerli Rifles are equipped with a micrometer rear sight, with vertical and horizontal adjustments.

### STORM, STORM ELITE, QUICK, EXPRESS 490

**Elevation Settings**—The settings for elevation are marked by the numbers 0-9 on the elevation adjustment screw(1) (see illustration 8a). If the rifle shoots high: turn the screw clockwise. If the rifle shoots low: turn the screw counterclockwise. Note: the numbers 0-9 are reference numbers only and are not calibrated to distance.

**Windage Settings**—Windage settings are controlled by turning the screw(2) on the side (see illustration 8a). If the air rifle shoots to the right: adjust clockwise. If it shoots to the left: adjust counterclockwise.

illustration 8a

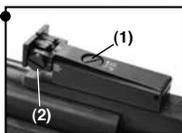


### NOVA, RAZOR

**Elevation Settings**—If the rifle shoots high: turn the screw(1) clockwise (see illustration 8b). If the rifle shoots low: turn the screw counterclockwise (marked "UP").

**Windage Settings**—Windage settings are controlled by turning the screw(2) on the side (see illustration 8b). If the air rifle shoots to the right: adjust clockwise (marked "R →"). If it shoots to the left: adjust counterclockwise.

illustration 8b

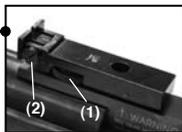


### TITAN

**Elevation Settings**—If the rifle shoots high: turn the bottom wheel(1) clockwise (see illustration 8c). If the rifle shoots low: turn the wheel counterclockwise (UP).

**Windage Settings**—Windage settings are controlled by turning the screw(2) on the side (see illustration 8c). If the air rifle shoots to the right: adjust clockwise (marked "R →"). If it shoots to the left: adjust counterclockwise.

illustration 8c



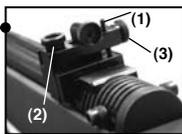
### X2 SIGHT INSTALLATION AND ADJUSTMENTS

**Installing the rear sight:** Slide the rear sight onto the dovetail grooves on the receiver. Using a 9/64" hex wrench, tighten the two mounting screws on the right side of the sight.

**Adjusting the rear sight:** Elevation Settings—

Loosen the elevation slide lock screw(1) by turning it counterclockwise (see illustration 8d). If the air rifle shoots high, turn the elevation knob(2) clockwise. If it shoots low, turn the elevation knob counterclockwise. Be sure to lock the elevation slide in place after you make adjustments by turning the elevation slide lock screw clockwise.

illustration 8d



**Windage Settings**—Windage settings are controlled by turning the windage adjustment knob(3) located on the side (see illustration 8d). If the air rifle shoots to the right: adjust clockwise. If it shoots to the left: adjust counterclockwise.

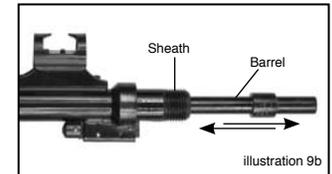
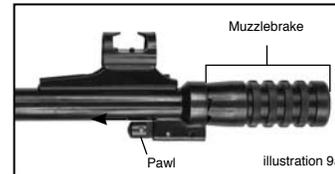
## X2 INTERCHANGEABLE BARREL SYSTEM

### Before changing barrels:

- Clean the barrel before inserting into rifle.
- Be sure the interior of the sheath is clean. The presence of strange objects could obstruct the mechanism of the air rifle and even damage it.

1. Pull the pawl toward the butt of the gun until it stops (see illustration 9a).
2. Twist the muzzlebrake counterclockwise until it comes off.
3. Remove the barrel from the sheath (see illustration 9b).
4. Slightly lubricate the outside of the interchangeable barrel with RWS Spring Cylinder Oil before inserting.
5. Insert the interchangeable barrel (see illustration 9b).
6. Screw the muzzlebrake back on the threads by twisting it clockwise until snug. Several "clicks" should be heard before the muzzlebrake is firmly in place. Do not over-tighten.

**ATTENTION: DO NOT STRIKE OR FORCE THE PAWL. DO NOT REST THE PAWL OR MUZZLE AGAINST ANY SURFACE. THESE ACTIONS COULD DAMAGE THE MECHANISM.**



## STORING YOUR AIR RIFLE

NEVER STORE A LOADED OR COCKED GUN. Unload pellet from the gun. Keep air rifle away from children and untrained shooters. Store pellets separately from the air rifle to keep them from untrained shooters. Protect your air rifle from moisture and dirt; clean gun and wrap it in a smooth, dry cloth. If you are going to store your airgun for an extended length of time be sure the barrel is protected. This can be accomplished by coating the bore with RWS Spring Cylinder Oil. Always use a soft cloth and insert the cleaning rod from the breech end on break barrel rifles. On under-lever cocking rifles, insert the cleaning rod from the muzzle end. Remove the oil completely before the next use.

## DO NOT MODIFY YOUR AIR RIFLE

**⚠CAUTION:** THE COMPONENTS OF YOUR AIRGUN WERE ENGINEERED AND MANUFACTURED TO DELIVER OPTIMUM PERFORMANCE. ANY MODIFICATION OR TAMPERING WITH YOUR AIRGUN MAY CAUSE A MALFUNCTION, WILL VOID YOUR WARRANTY, AND MAY MAKE IT UNSAFE TO USE. ANY CHANGE IN PERFORMANCE (SUCH AS A LOWERED TRIGGER PULL FORCE AND SHORTENED TRIGGER TRAVEL), INDICATES POSSIBLE MODIFICATION, TAMPERING, AND/OR WEAR. SUCH AIRGUN SHOULD BE INSPECTED, REPLACED, OR PROPERLY REPAIRED BY ONLY QUALIFIED UMAREX USA PERSONNEL. ANY AIRGUN THAT HAS BEEN DROPPED SHOULD BE CHECKED BY QUALIFIED PERSONNEL TO ENSURE THAT ITS FUNCTION HAS NOT BEEN AFFECTED.

**⚠WARNING:** A GUN THAT IS NOT OPERATING PROPERLY MAY BE DANGEROUS. IT SHOULD BE KEPT SAFELY FROM USE BY ANYONE UNTIL REPAIRED OR DESTROYED. DO NOT TRY TO TAKE THE GUN APART. IT IS DIFFICULT TO REASSEMBLE AND IMPROPER DISASSEMBLY OR REASSEMBLY CAN CAUSE SERIOUS INJURY OR DEATH.

## AMMUNITION

Your Hammerli Air Rifle is designed to fire caliber .177 or .22 lead pellets only. We recommend the use of RWS Pellets because of their superb accuracy and dimensional uniformity. The correct caliber is clearly stamped on the barrel near the breech block or on the breech block.

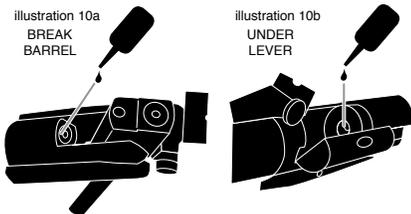
## NEVER DRY FIRE YOUR AIR RIFLE

If the air rifle is fired without a lead pellet or RWS Cleaning Pellet in the breech, it will cause the piston to bottom out in the cylinder which can permanently damage the air rifle.

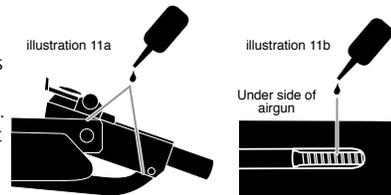
## CARE AND MAINTENANCE

**⚠CAUTION:** BEFORE ANY CARE, CLEANING, OR MAINTENANCE, ALWAYS BE SURE YOUR AIR RIFLE IS "ON SAFE" AND UNLOADED. KEEP IT POINTED IN A SAFE DIRECTION. IT IS IMPORTANT TO MAINTAIN YOUR AIRGUN PROPERLY.

**WORKING PARTS:** The working parts (piston and mainspring) require very little lubrication. Two(2) drops of RWS Air Chamber Lube every 1000 shots will suffice. It is easily applied through the compression chamber port with a 3 1/2" applicator needle (see illustrations 10a & 10b). The wearing surfaces at the barrel hinge, the cocking arm, and the trigger mechanism should be lubricated with



RWS Spring Cylinder Oil (see illustration 11a). Mainsprings should be oiled every 1000 shots with six(6) drops of RWS Spring Cylinder Oil (see illustration 11b). Remember, a little is good—a lot is not better.



**⚠CAUTION:** CHECK THE TIGHTNESS OF THE FRONT TRIGGER GUARD AND STOCK SCREWS BETWEEN, DURING, AND AFTER SHOOTING ACTIVITY. LOOSE SCREWS MAY CAUSE INJURY OR DEATH.

**BARREL:** In day to day use, very little dirt or residue will accumulate in the bore. This can be removed by using soft RWS Cleaning Pellets. Note: High quality RWS Lead Pellets not only increase accuracy, they help to reduce lead deposit. During periods of regular use the bore of the barrel should be cleaned periodically by means of a felt wad or cleaning rod with wool mop. Wire brushes should not be used. Insert rod from breech end, do not remove barrel seal (insert from muzzle end on break-barrel models).

**SURFACE:** The exposed metal parts (rear sight, receiver, screw heads, sight hood, etc.) are a gun blue finish and MUST be wiped clean using a slightly oiled cloth after handling to prevent rust. Use light acid free and resin free oil. RWS Spring Cylinder Oil is excellent for this.

**⚠CAUTION:** OILS THAT CONTAIN ACID OR RESIN CAN DAMAGE THE BREECH SEAL, COMPRESSION SEAL, AND POSSIBLY THE FINISH OF THE STOCK.

## WARRANTY AND REPAIR

Hammerli Air Rifles have a One (1) Year Limited Warranty. If you do not have a copy of the warranty, you may request a copy or view it online at [www.UmarexUSA.com](http://www.UmarexUSA.com). A copy of the original purchase receipt is required for warranty repairs.

Do not return defective or damaged product to the dealer. If your air rifle needs repair, call Umarex USA (479) 646-4210 and ask for the Service Department or visit [www.UmarexUSA.com](http://www.UmarexUSA.com). DO NOT ATTEMPT TO DISASSEMBLE IT! Your airgun requires special tools and fixtures to repair it. Any disassembly or modification not performed by Umarex USA will void the warranty.

**UMAREXUSA®**

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