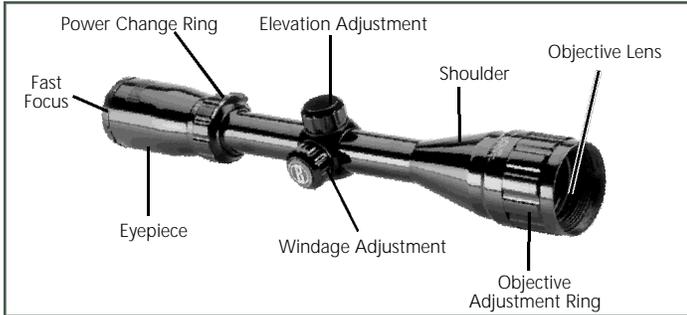


# Bushnell® Riflescope Instruction Manual

**Congratulations** on your choice of a Bushnell® riflescope. It is a precision instrument constructed of the finest materials and assembled by highly skilled craftsmen for a lifetime of trouble-free use under the most demanding conditions.

This booklet will help you achieve optimum performance by explaining how to use its various features and how to care for it. Read the instructions carefully before mounting and using your scope.

The following photographs are guides to the nomenclature and location of the riflescope parts mentioned throughout this text.



## EYEPIECE FOCUSING

The eyepiece is designed to provide a precise fast focus. The eyepiece will focus faster than your eye can compensate for any inaccuracy in your adjustment.

Look at a distant object for several seconds without using your scope. Then, shift your vision quickly, looking through the scope at a plain background. Turn the fast-focus eyepiece clockwise or counter clockwise to adjust to your eyes. The reticle pattern should be sharp and clear before your eye can refocus. After you have made your adjustment, with a quick glance re-check the image.

**WARNING:** NEVER LOOK AT THE SUN THROUGH THE RIFLESCOPE (OR ANY OTHER OPTICAL INSTRUMENT). IT MAY PERMANENTLY DAMAGE YOUR EYES.

## CENTERING THE RETICLE

The reticle was carefully set at the optical center of your riflescope at our factory. This setting provides you with the ideal adjustment range from the center position. The riflescope's adjustments are used to zero-in the riflescope.

It is wise to check the center of the optical axis before mounting. Do this by placing the scope in a solid V-block (cardboard box with two slots). While looking through the scope in a normal viewing position, carefully rotate the scope. If the target moves in a circle larger than 1" from center (at 25 yards) in relation to intersection of crosshairs, reset windage and elevation adjustments. Remove adjustment caps. Set each adjustment to midpoint and recheck for centering. If target still rotates, use adjustments to correct.

## MOUNTING

To achieve the best accuracy from your rifle, your Bushnell scope must be mounted properly. (We strongly recommend that those unfamiliar with proper procedures have the scope mounted by a qualified gunsmith). Should you decide to mount it yourself:

1. Use a high-quality mount with bases designed to fit your particular rifle. The scope should be mounted as low as possible without touching either the barrel or the receiver.
2. Carefully follow the instructions packed with the scope mounts you have selected.
3. Before tightening the mount rings, look through the scope in your normal shooting position. Adjust the scope (either forward or backward) until you find the furthest point forward (to ensure maximum eye relief) that allows you to see a full field of view.

**WARNING:** IF THE SCOPE IS NOT MOUNTED FAR ENOUGH FORWARD, IT'S REARWARD MOTION MAY INJURE THE SHOOTER WHEN THE RIFLE RECOILS.

4. Rotate the scope in the rings until the reticle pattern is perpendicular to the bore and the elevation adjustment is on top.
5. Tighten the mounting screws.

## BORE SIGHTING

Bore sighting is a preliminary procedure to achieve proper alignment of the scope with the rifle's bore. It is best done using a Bushnell® Bore Sighter. If a bore sighter is not available, it can be done as follows: Remove the bolt and sight through the gun barrel at a 100 yard target. Then sight through the scope and bring the cross hairs to the same point on the target. Certain mounts have integral windage adjustments and, when bore sighting, these should be used instead of the scope's internal adjustments. If major elevation adjustments are needed, they should be accomplished by shimming the mount base.

## ZEROING

Final sighting-in of your rifle should be done with live ammunition, based on your expected shooting distance. If most of your shots will be at short range, zero-in at 100 yards. But, for long-range shooting at big game, most experienced shooters zero-in about three inches high at 100 yards. Three-shot groups are useful for averaging the point of impact.

## ELEVATION AND WINDAGE ADJUSTMENT

Most Bushnell® scopes feature finger-adjustable audible-click elevation and windage adjustments.

1. Remove the covers from the Elevation and Windage Adjustments.
2. Grasp the Adjustment Bar and turn it in the appropriate "UP" (and/or "R") direction indicated by the arrows. Each "click" or increment on the Adjustment Scale Ring will change bullet impact by 1/4" **Minute of Angle**. 1/4" MOA corresponds to 1/4 inch at 100 yards, 1/2 inch at 200 yards, 3/4 inch at 300 yards and so on (1/12" at 50 feet for air rifles).



## RESETTING THE ADJUSTMENT SCALE RING

This step is not necessary, but, for future reference, you may want to realign the zero marks on the Adjustment Scale Rings with the index dots.

1. Using a jeweler's screwdriver, loosen the Phillips screw on the Adjustment Scale about 1/2 turn. Take care not to disturb your zero by "losing" a click or two when loosening the screws.
2. Rotate the Adjustment Scale Ring (which should now turn freely) to align the "0" with the Index Dot.
3. Retighten the screw in the Adjustment Scale and reinstall the Elevation and Windage Adjustment Knobs.

## VARIABLE POWER ADJUSTMENTS

To change magnification, simply rotate the Power Selector Ring to align the desired number on the power scale with index dot.

When still-hunting or stalking game, a variable scope should be set to the lowest power. You then have the widest field of view for quick shots at close range. Higher powers should be reserved for precise long-range shots.

**WARNING:** A SCOPE SHOULD NEVER BE USED AS A SUBSTITUTE FOR EITHER A BINOCULAR OR SPOTTING SCOPE. IT MAY RESULT IN YOUR INADVERTENTLY POINTING THE GUN AT ANOTHER PERSON.

## ADJUSTABLE OBJECTIVE LENS

This feature (if present on your scope) permits precise focusing, while simultaneously readjusting the parallax-free distance, for any range from 50 yards to infinity. To change range focus, turn the Objective Adjustment Ring and align the number with the distance index dot. An alternative method is to look through the scope and turn the Objective Adjustment Ring until the target, at whatever range, is sharply focused.

## MAINTENANCE

Your Bushnell riflescope, though amazingly tough, is a precision instrument that deserves reasonable cautious care.

1. When cleaning the lenses, first blow away any dirt and dust, or use a soft lens brush. Fingerprints and lubricants can be wiped off with lens tissue, or a soft clean cotton cloth, moistened with lens cleaning fluid.

**WARNING:** UNNECESSARY RUBBING OR USE OF A COARSE CLOTH MAY CAUSE PERMANENT DAMAGE TO LENS COATINGS.

2. All moving parts of the scope are permanently lubricated. Do not try to lubricate them.
3. No maintenance is needed on the scope's outer surface, except to occasionally wipe off dirt or fingerprints with a soft cloth.
4. Use lens covers whenever convenient.

## STORAGE

Avoid storing the scope in hot places, such as the passenger compartments of vehicles on hot days. The high temperatures could adversely affect the lubricants and sealants. A vehicle's trunk, a gun cabinet or a closet is preferable. Never leave the scope where direct sunlight can enter either the objective or the eyepiece lens. Damage may result from the concentration (burning glass effect) of the sun's rays.

## WARRANTY / REPAIR

### **LIFETIME LIMITED WARRANTY**

Your Bushnell® riflescope is warranted to be free of defects in materials and workmanship for the lifetime of the original owner. The Lifetime Limited Warranty is an expression of our confidence in the materials and mechanical workmanship of our products and is your assurance of a lifetime of dependable service. In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product postage prepaid. This warranty does not cover damages caused by misuse or improper handling, installation or maintenance of the product.

**Any return made under this warranty  
must be accompanied by the items listed below:**

- 1) A check in the amount of \$10.00 to cover the cost of handling
- 2) Name and address for product return
- 3) An explanation of the defect
- 4) Product should be well packed in a sturdy outside shipping carton to prevent damage in transit and return postage prepaid to the address listed below:

**IN U.S.A. Send To:**

Bushnell Performance Optics  
8500 Marshall Drive  
Lenexa, Kansas 66214

**IN CANADA Send To:**

Bushnell Performance Optics  
25A East Pearce Street, Unit 1  
Richmond Hill, Ontario L4B 2M9

For products purchased outside the United States and Canada please contact your local dealer for applicable warranty information. This warranty gives you specific legal rights. You may have other rights which vary from country to country.

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