

Riflescope Instruction Manual

SIGHTRON®

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Introduction to Sightron

Congratulations on the purchase of your new Sightron Riflescope. Sightron is a leader in developing new products for the outdoor enthusiast. Sightron is certain our riflescopes, binoculars and spotting scopes will line up to your high expectations and never let you down. This instruction manual is designed to provide you with the proper fundamentals for using your riflescope.

If you have any questions please feel free to contact us at info@sightron.com on the web, or by phone at +1-919-562-3000.

Riflescope Features

Sightron produces several variations of Riflescopes; you should become familiar with the features of your particular riflescope before using. Available on select series, Sightron has introduced innovations like our ExacTrack Windage and Elevation™ System and our Zact-7 Revcoat® Fully Multi-Coated glass that delivers performance demanded by you.

Fixed Power Rifle Scope

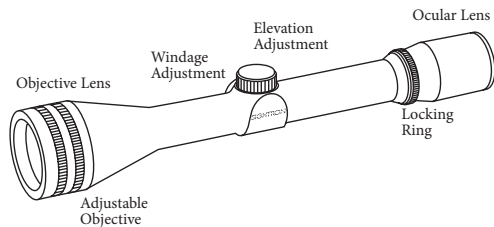


Figure 1

Fixed Power Target Rifle Scope

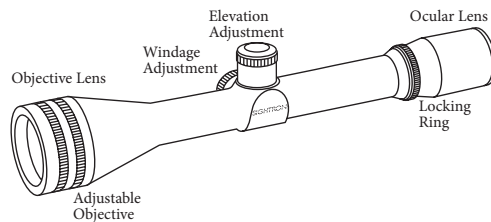


Figure 3

Variable Power Rifle Scope

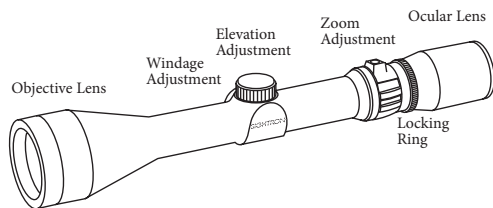


Figure 2

Variable Power Target Rifle Scope

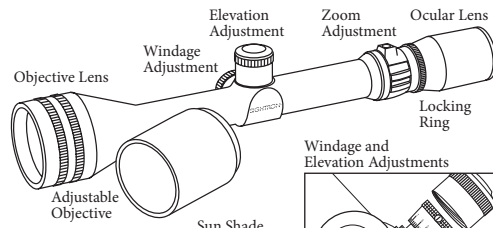


Figure 4

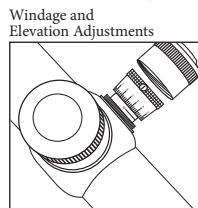


Figure 5

Side Focus Riflescope

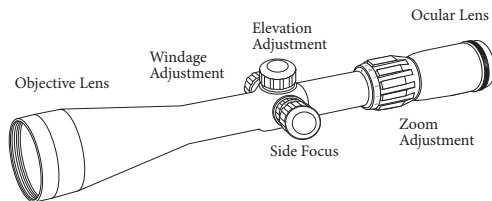


Figure 6

Setting Your Diopter

CAUTION: LOOKING AT THE SUN WITH THIS OR ANY OPTICAL INSTRUMENT COULD CAUSE PERMANENT INJURY TO THE EYE.

1. All Sightron Fixed and Variable power riflescopes are factory preset for zero (0) diopters or 20/20 vision.
2. Certain models contain the Fast Focus Eyebell (Figure 7) which allows the shooter to adjust their diopter quickly by turning the diopter adjustment located at the end of the eyepiece. All

other models contain a Locking Ring Eyebell that adjusts simply by loosening the locking ring located near the magnification ring and rotating the eyepiece.

3. To properly focus the reticle, simply adjust the diopter (eyebell) while looking at a light colored background or bright surface. Adjust the diopter until the reticle becomes sharp and crisp. If prescription glasses are worn during this process, then you must wear them at all times while using the riflescope.

Eyebell Adjustment

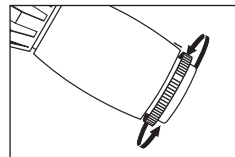


Figure 7

Locking Diopter

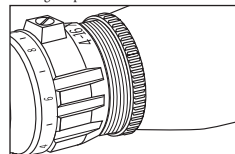


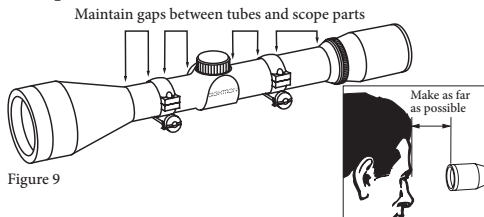
Figure 8

Mounting Your Riflescope

CAUTION: ALWAYS INSURE THAT YOUR WEAPON IS UNLOADED PRIOR TO MOUNTING YOUR SCOPE. USE EYE AND HEARING PROTECTION AND FOLLOW PROPER SAFETY RULES WHEN HANDLING OR FIRING YOUR WEAPON.

1. Place both rings on your mount base or receiver, and tighten slightly, adjustment may be needed. Remove the top half of the rings and place the riflescope in the bottom half of the rings. Once you have determined proper ring spacing (see Fig. 9) and eye relief (see Fig. 10), tighten the top half of the rings between 15-20 inch pounds or 169-225 Newton Centimeters.

2. To align the riflescope with the bore axis of the gun, level the turrets or crosshairs by using a scope level or a level chart.



3. The final step will now be to secure the riflescope by tightening the rings to the mount or receiver.

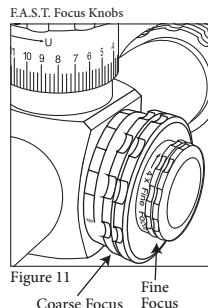
Fine Adjustment Sight Tuner (F.A.S.T.)

The Fine Adjustment Sight Tuner (F.A.S.T.) located on the left side of the turret housing consists of two focusing knobs.

The larger knob, known as the Coarse Adjustment knob allows the shooter to focus over large distances to bring the image into focus. The smaller knob, referred to as the Fine Adjustment Knob allows for the image to be focused in small increments for precise image focusing. To

properly adjust the F.A.S.T. focus system, rotate the focusing knob to the infinity (∞) mark and adjust down till the image is in focus and parallax free.

Note: Due to weather conditions, focusing may not be able to be achieved at higher magnifications. If this problem should occur, simply reduce the magnification used.



Parallax Focus Adjustment

Parallax is the apparent displacement of an object caused by a change in the position from which it is viewed. **For a riflescope to be parallax free there has to be an equal balance between the eye to the reticle and the image to the reticle.** Sightron Hunting models are set parallax free at 100 yards except Rimfire models which are set at 50 yards. This means targets that are closer or farther from this focal point will show a small apparent movement. The amount of reticle movement is generally less than 1 inch at 100 yards, and is not a relative concern when using the scope for hunting or casual shooting applications. For other disciplines of this sport, like competition or precision shooting, the use of a scope with parallax adjustment is recommended.

Adjustable Objective

The Parallax Adjustment is located on the objective end of the riflescope and is designed for precision shooting applications. The Adjustable Objective will allow parallax free viewing, by correctly setting the distance scale ring to the desired setting. To properly adjust the Adjustable Objective, rotate the objective to the infinity (∞) mark on the scale ring and adjust back till the image is in focus and parallax free.

Note: Models that offer a 720° Adjustable Objective use the two color index markings located on the main body tube and the objective ring to obtain proper focusing.

Note: That the markings on the Adjustable Objective will not always match up with the actual viewing distance due to environmental circumstances.

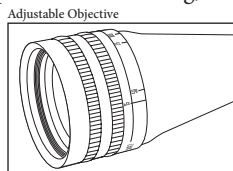


Figure 12

Side Focus Adjustment

The Side Focus Adjustment is located on the left side of the turret housing and allows the shooter to conveniently adjust the parallax setting for precision shooting applications. To properly adjust the Side Focus Adjustment, rotate the focusing knob to the infinity (∞) mark and adjust down till the image is in focus and parallax free.

Note: Minimum parallax distance varies depending on model.

Please refer to technical specifications for your rifle scope model.

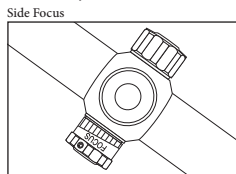


Figure 13

Rear Focus Adjustment

The Rear Focus Adjustment is located in front of the eyepiece before the turret housing. To properly adjust the Rear Focus Adjustment, rotate the focusing knob to the infinity (∞) mark and adjust the knob down till the image is in focus and parallax free.

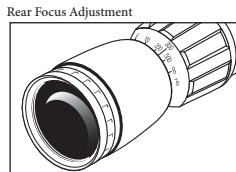


Figure 14

Sighting in Your Gun

Your new scope has been optically centered at the factory and superior performance will be obtained with minimal adjustment. *Prior to sighting in your scope it is important to know the windage and elevation adjustment specifications of your particular scope model. A general rule is the more the magnification the less internal adjustment is available. Specifications for Sightron's scopes are located in our annual catalog or on our website. Sightron recommends not using more than 25% of the available adjustment on Hunting models and 10% on Target models to zero your scope. If your ring alignment exceeds these adjustment requirements it is recommended to correct the alignment by using windage and elevation adjustable rings before you begin to adjust your scope.*

Note: For best performance optically and mechanically keep the windage and elevation travel centered to allow for maximum adjustment range for your model of rifle scope.

Note: Most sight in problems are caused by poor ring alignment.

Sighting in Your Gun

1. Place a 2 to 3 foot target 50 to 100 yards away. Using a bench rest, fire two shots while aiming at the center of the bullseye.
2. Adjust the reticle to the bullets impact point by using the turret adjustments or by using windage and elevation adjustable rings.
3. Fire two more shots while aiming at the center of the bullseye to confirm the adjustments made. If bullet impact is different from point of aim, then repeat steps 1-3 until point of aim is aligned with the bore of the gun.

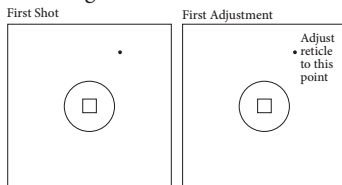


Figure 15

Note: By adjusting the Windage and Elevation knob in the direction of the arrow on the knob it will move the bullet impact in the direction indicated.

Note: The Windage and Elevation click values will vary depending on your model of riflescope.

Windage and Elevation Movement Table

Click Value	50 Yards	100 Yards	200 Yards	500 Yards
0.50 Minute	.25 MOA	.50 MOA	1 MOA	2.5 MOA
0.25 Minute	.125 MOA	.25 MOA	.50 MOA	1.25 MOA
0.125 Minute	.0625 MOA	.125 MOA	.25 MOA	.625 MOA
.1 MRAD	.05 MRAD	.1 MRAD	.2 MRAD	.5 MRAD
.05 MRAD	.025 MRAD	.05 MRAD	.1 MRAD	.25 MRAD

Locking Turrets

Sightron offers certain models with a Locking Turret feature. This feature allows the user to adjust the turret and lock it in place to secure the adjustment that was made. To adjust the Locking Turret pull up and fully extend the turret knob before rotating. The Locking feature is engaged when the turret knob is fully pushed down.

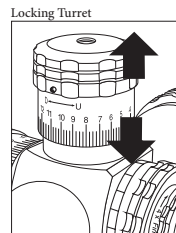


Figure 16

Note: When the Turret knob is engaged in Locked mode, do not forcibly try to rotate the turret knob or damage may occur.

Re-Zeroing Your Scope

Certain Sightron riflescope models are resettable to zero after sighting in your riflescope.

1. Models with Locking Turret.

To reset the Locking Turret to zero, simply loosen the three 1.27mm Allen Screws located around the top lip of the turret knob. Rotate the turret knob to zero aligning with the revolution counter under the turret knob and tighten the three set screws evenly around the turret knob.

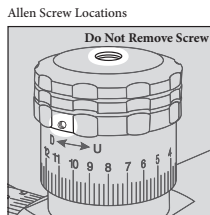


Figure 17

Note: Do not remove the 3mm Allen Screw located on top of the turret knob.

2. Target Models.

To re-zero all target models loosen either the 1.5mm or 1.27mm Allen Screws located around the top lip of the turret knob or Torx 20 screws located at the top of the turret knob. Rotate the knob until the zero mark lines up with the index line on the revolution scale underneath the turret knob. Re-tighten the Allen or Torx screws.

3. Low Profile ReSettable Hunting Knobs.

On certain models with low profile resettable Hunting knobs, simply pull up the turret knob and rotate the knob to zero and the indexed mark and push down. The turret should adjust after it is snapped down and engaged to the tracking system.

Using Your Illuminated Reticle

Sightron offers Illuminated Reticle scopes that can be operated either with or without illumination. When the riflescope is operated without illumination, the reticle will appear the same as a reticle without illumination. An illuminated reticle offers the shooter contrast when shooting in low light circumstances or when shooting against a dark background. To operate the illumination, locate the digital/analog switch located either on the eyepiece or the side of the turret housing. Adjust the digital/analog switch from the highest illumination setting to the desired illumination setting for the external lighting circumstance.

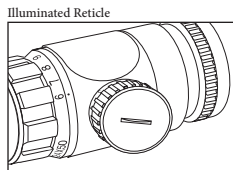


Figure 18

Certain models offer an (0-11) option to determine intensity of the illumination, with (0) being the OFF mode as shown in Figure (19). Other models offer an ON/OFF feature with an (1-11) option to determine intensity of illumination with the (·) in between each intensity setting being the OFF mode as seen in Figures (20 & 21).

Note: Incorrect diopter settings can cause distortion to the illumination. Please check the diopter setting for your eye before using the illumination.

Note: To increase battery life, always remember to turn off the illumination when the scope is not in use. For extended storage, remove the battery.

Changing the Battery

Models equipped with illumination require a CR-2032 battery. Depending on intensity of illumination and temperature, battery life ranges between 10

and 48 hours. The colder the environment the shorter the life of the battery.

Note: Battery life varies depending on specification set by Manufacturer of the Battery.

To replace the battery take a coin and place in the battery slot. Hold the rheostat switch while rotating the battery cap in a counter clockwise direction. Place the new battery with the positive (+) side up. Rotate the battery cap clockwise to tighten.

On models with a side saddle rheostat switch, replace the battery by rotating the end of the knob counter clockwise with your fingers. Place the new battery with the positive (+) side facing in. Rotate the cap clockwise to tighten.

Note: Only a snug fit is required. Do not over tighten.

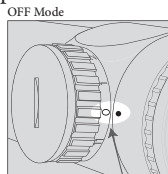


Figure 19
S-TAC ON Mode

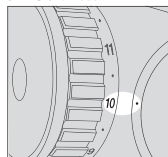


Figure 20
S-TAC OFF Mode

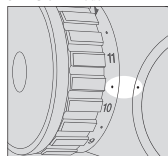


Figure 21

Illuminated Reticle Battery Replacement

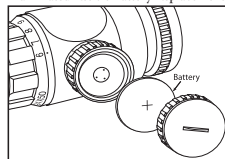


Figure 22

Side Saddle Battery Replacement

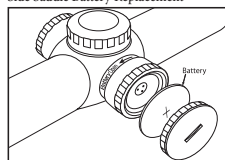


Figure 23

Digital Illuminated Reticle Battery Replacement

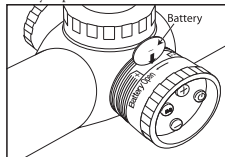


Figure 24

Maintaining Your Scope

Lenses

1. Sightron Riflescope lenses are Fully Multi-Coated and are engineered for a lifetime of performance. Lenses should be cleaned regularly to ensure optimal performance during the life of the riflescope. By using a lens cleaning kit, first brush all loose dust and dirt particles with a lens brush. Using a camera lens grade cleaner and lens cloth carefully clean the lenses.

Adjustment Dials

1. All Sightron riflescope models external adjustments operate in a sealed system that requires no additional maintenance or lubrication. Sightron riflescopes use the latest technology that ensures each model riflescope is 100% waterproof.

Riflescope Exterior

1. All Sightron Riflescope models are made from High Quality Aircraft Aluminum. The hard coated anodizing allows the shooter worry free maintenance for a lifetime of enjoyment. To clean the main body tube, simply wipe off any dirt particles using a moist clean cloth (use water only).

Troubleshooting Tips

Please check the following items before returning your riflescope for warranty repair.

1. Check the Elevation and Windage travel to make sure that it is not past the allotted specification for the model riflescope.
2. Make sure that the rings and bases are torqued to the required specification provided by the manufacturer.
3. Check the diopter setting to make sure that it is properly adjusted for your eye.
4. Please contact a Sightron Technical Specialist for all other questions concerning your model riflescope.

Servicing Your Scope (USA Only)

Should your Sightron scope ever require service, please package it securely and ship to:

Sightron, Inc.
100 Jeffrey Way
Suite A
Youngsville, NC 27596

1. Please include a detailed description of the problem.

2. Include your daytime telephone number and/or your email address (if available).

3. Add return shipping address

4. Remove all rings, caps and sunshades.

Package in the Riflescope box provided by Sightron, Inc. and place in a shipping container to ensure the safety of the product.

Servicing Your Scope (Outside USA)

Please contact the distributor in your country. For complete listings of International Distributors visit www.sightron.com.

Sightron USA Limited Lifetime Warranty

Sightron is certain our riflescopes, binoculars and spotting scopes will line up to your high expectations and never let you down.

The Sightron “**Limited Lifetime USA Warranty**” covers all Sightron products sold and shipped within the 50 States of the United States. Should your Sightron product ever fail due to workmanship or materials simply return it to Sightron and we will repair or replace it at our option. See Sightron Warranty Exclusions on page 25.

This warranty does not cover damage that occurs in shipment or failures that result from accidents, misuse, abuse, unauthorized alterations, theft, modifications or acts of God.

Note: Products shipped from the USA out of the Country are considered Gray Market Products and are not covered by this warranty.

Please return your Sightron product to:
Sightron, Inc. 100 Jeffrey Way, Suite A, Youngsville, NC 27596. Include a detailed letter with the issues you are experiencing along with return address and complete contact information. If you have any questions please contact us at: 1-919-562-3000 or at info@sightron.com.

Sightron Warranty Exclusions

Sightron ESD Warranty-Two Years
Sightron GPS Warranty-One Year
Sightron Electronic Components
Warranty-Two Years

Sightron International Warranty

Sightron is certain our riflescopes, binoculars, and spotting scopes will line up to your high expectations and never let you down.

The Sightron “**Limited Lifetime International Warranty**” covers all Sightron products sold outside the 50 States of the United States. “**See Exclusions below**”.

This warranty does not cover damage that occurs in shipment or failures that result from accidents, misuse, abuse, unauthorized alterations, theft, modifications or acts of God.

Should your Sightron product ever fail due to workmanship or materials simply return it to the Sightron Distributor from the Country it was purchased along with a copy of the sales receipt and we will repair or replace it at our option. If you are not sure of the Distributor for your country or region please email us at info@sightron.com or contact us in the U.S.A. +1-919-562-3000.

Due to the changing requirements by the U.S. Department of Commerce it is important to let your Distributor return your scope for repair as they are aware of the proper importation and exportation regulations for your Country. ***Scopes sent directly to Sightron U.S.A. will not be accepted unless a prior RMA is authorized.***

Sightron Warranty Exclusions

Sightron ESD Warranty-Two Years
Sightron GPS Warranty-One Year
Sightron Electronic Components
Warranty-Two Years

Glossary

Adjustable Objective - An Objective lens that is adjustable for focus at varying distances. Sightron Adjustable Objectives can focus as low as 30 feet to infinity depending on the individual model.

Elevation Knob - The adjustment knob on top that adjusts the bullet impact up and down in the vertical plane when mounted in the traditional manner (elevation knob on top and windage knob on the right side as seen from the shooting position).

Eye-Relief - The distance from the rear of the objective lens to the eye as measured with a full field of view in the rifle scope.

Fast Focus Eyeball - A type of eyeball focus that allows the ocular lens assembly to rotate independent of the eyeball assembly. This feature allows for quicker reticle sighting adjustments.

Objective Lens - The front lens of a Rifle scope, usually the larger of the two outermost lenses of the Rifle scope. The objective lens is a critical factor in determining resolution and light transmission characteristics.

Ocular Lock Ring - The Lock ring on the rear of the scope that tightens against the Ocular Lens Assembly to prevent movement.

Ocular Lens Assembly - The lens group at the rear of the scope that allows your eye to focus on the reticle.

Parallax - Parallax is the effect or lack of proper adjustment between the image and the reticle. For a rifle scope

to be parallax free the target image must be focused onto the reticle. Almost all rifle scopes are preset parallax free at 100 yards. This means, targets that are closer or farther from this focal point, the scope reticle will show an apparent movement. However, the amount of reticle movement is insignificant, and is not of concern when using the scope for hunting or casual shooting. For other disciplines of this sport, like competition or precision shooting, the use of a scope with parallax adjustment is recommended.

Reticle Selector Knob - The knob on the left side of an Electronic Sighting Device that changes the reticle pattern.

Rheostat Switch - The switch found on Electronic Sighting Devices and illuminated reticle scopes that house the battery. This switch also controls the light intensity and is adjustable.

Side Focus Knob - An adjustable knob usually found on the left side of the scope that changes the focus of the image as viewed through the rifle scope.

Variable Power Ring - The ring in the back of the scope that changes the magnification.

Windage Knob - The adjustment knob on the right side that adjusts the bullet impact left and right in the horizontal plane when mounted in the traditional manner (elevation knob on top and windage knob on the right side as seen from the shooting position).

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