



**1-6 X 24mm & 4-16 X 44mm**

**SHOOTER SERIES SCOPES**

**INSTRUCTIONS**

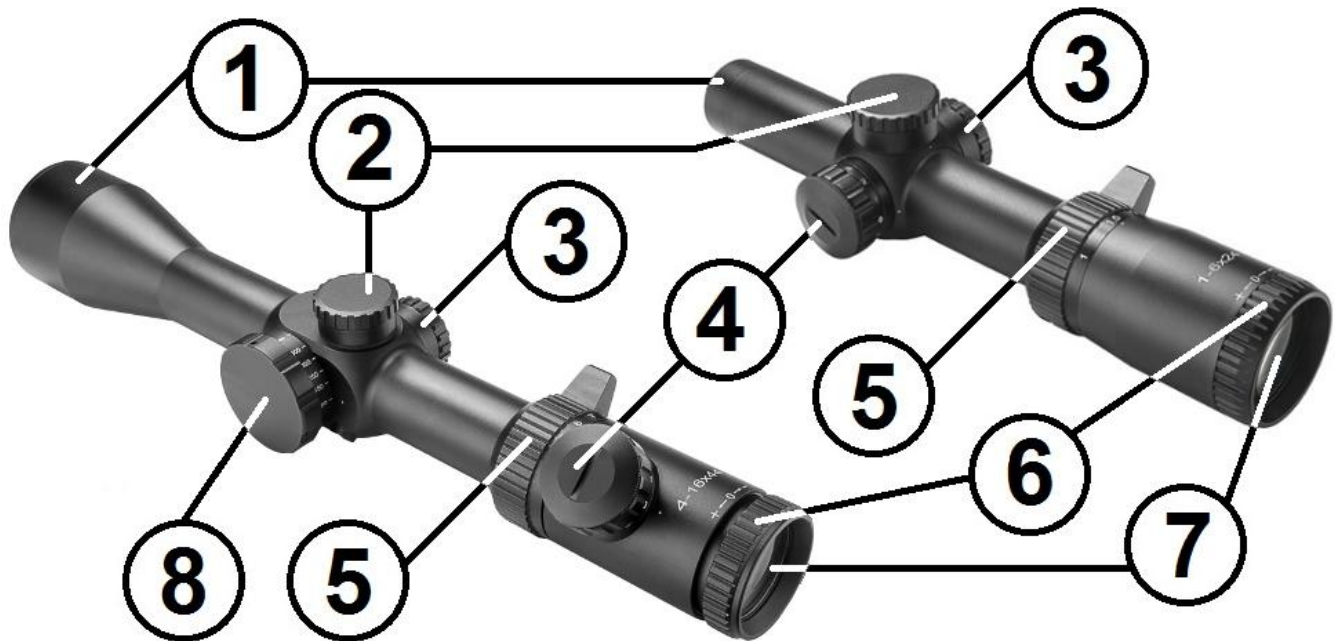
# SHOOTER SERIES SCOPES

Congratulations on the purchase of your NCSTAR® Shooter Series scope! The scope series is available in two popular magnifications 1X - 6X with the LPV (Low Power Variable) reticle or the 4X - 16X with the P4 Sniper reticle. The scope is equipped with many of the popular tactical scope features: target turrets with turret caps, 30mm scope tube diameter, glass etched reticle, fully multi-coated lenses for bright and clear image quality, rheostat for the illuminated reticle, one piece scope tube body, and parallax adjustment knob on the 4X - 16X 44mm model.

Backed by a Lifetime Limited Warranty, your Shooter Series scope models will provide you with years of reliable service. This Owner's Manual will help you understand all of the features of your new scope.

Please follow all instructions carefully before initial use, to experience the best performance.

## Shooter Scope Series Features:



- |  |                             |
|--|-----------------------------|
| 1. Objective Lens                        | 5. Magnification Ring       |
| 2. Elevation Cap & Adjustment Turret     | 6. Quick Focus Ring         |
| 3. Windage Cap & Adjustment Turret       | 7. Ocular Lens              |
| 4. Rheostat Knob for Illuminated Reticle | 8. Parallax Adjustment Knob |
| Battery Cap & Compartment                | (4X - 16X 44mm model only)  |

## Mounting Your Scope

❖ **CAUTION: BE SURE THAT YOUR FIREARM IS UNLOADED AND POINTED IN A SAFE DIRECTION. PRACTICE SAFE FIREARMS HANDLING PROCEDURES AT ALL TIMES.**

❖ **NOTE: IF YOU ARE UNFAMILIAR WITH THE PROCESS OF SCOPE MOUNTING IT MAY BE NECESSARY TO EMPLOY THE SERVICE OF A QUALIFIED GUNSMITH.**

The scopes do not include scope rings. You will have to purchase 30mm scope rings or 30mm scope mount to mount the scope to your firearm.

It is best that you first loosen all the upper scope ring screws to help with mounting the Shooter scope onto your optics rail on your firearm. This will allow you to space out the rings properly, for the ring mounting bolts to match up with the cross slots of the optics rail. Once you have the scope rings mounted onto your optics rail, you will next have to move the scope forwards or rearwards to adjust the scope's position to allow for Maximum Eye Relief and reticle leveling. Slide the scope as far forward as possible in the rings. While viewing through the scope in a normal shooting position move the scope back towards your eye until a Full Field of View is achieved while ensuring that the scope will be a safe distance from your eye when the firearm recoils.

Without disturbing the Eye Relief settings, aim the reticle at a plumb line. Align the vertical cross hair of the reticle with the plumb line by rotating the scope within the rings. Once you are satisfied with your scopes settings and placement, tighten the rings screws evenly to approximately **10 to 15 inch lbs.** of torque (Not foot lbs.) with an inch pound torque wrench/screw driver. Be sure not to over tighten the rings, as doing so can cause permanent damage to the scope.

## **Focusing Your Scope**

❖ **CAUTION: VIEWING THE SUN WITH THIS SCOPE OR ANY OTHER OPTICAL DEVICE CAN CAUSE PERMANENT INJURY TO THE EYE INCLUDING BLINDNESS**

This scope has a quick focus ring feature. Holding the scope at the proper distance from your eye, in order to achieve a Full Field of View, the reticle should appear sharp and clear. If not, it will be necessary to adjust the focus by turning the Quick Focus Ring.



1. Make quick glances through the eyepiece at a featureless bright surface such as a white wall, or the open sky.
2. Turning the Quick Focus Ring Counter-Clockwise (↺) will extend the Ocular Lens outward, generally suitable for those who are far sighted. Turning the Quick Focus Ring Clockwise (↻) will draw the Ocular Lens inward, generally suitable for those who are near sighted.
3. Fine tune your adjustments until the reticle appears sharp and clear. If the Ocular Lens reaches its outer limits of adjustment, be sure not to force it as doing so will cause damage to the eyepiece.

## **Windage and Elevation Adjustment Turrets**

Your scope is equipped with Elevation and Windage Adjustment Turret which change your scopes point of aim relative to the bullet point of impact on a



target for a specific range. The Elevation Adjustment Turret is located on top of the Turret Body, and is responsible for the Up and Down movement of the reticle.

The Windage Adjustment Turret is located on the right side of the Turret Body, and is responsible for the Left and Right movement of the of the reticle. To access the Adjustment Turret simply twist the protective Turret Caps off Counter-Clockwise (↺).

On the top of each Adjustment Turret you will notice that there are arrows indicating direction of movement.

Turning the Elevation Adjustment Turret Counter-Clockwise (↺) will move the reticle Down in the scope, shifting the bullet point of impact Up (↑).

Turning Elevation Adjustment Turret Clockwise (↻) will move the reticle in the scope Up, shifting the bullet point of impact Down (↓).

Turning the Windage Adjustment Turret Counter-Clockwise (↺) will move the reticle Left in the scope, shifting the bullet point of impact Right (⇒).

Turning Windage Adjustment Turret Clockwise (↻) will move the reticle in the scope Right, shifting the bullet point of impact Left (⇐).

The Elevation and Windage Adjustment Turret also feature audible and tactile clicks which you can hear or feel the adjustments. Each click moves the reticle point of aim 1/2 MOA\* at 100 Yards. The chart below represents the amount of movement of each click at various distances.

	Elevation/Windage movement per click				
Magnification	100 yards	200 yards	300 yards	400 yards	500 yards
1X – 6X model	1/2 MOA	1 MOA	1 1/2 MOA	2 MOA	2 1/2 MOA
4X – 16X model	1/4 MOA	1/2 MOA	3/4 MOA	1 MOA	1 1/4 MOA

\*1 MOA = 1.047 Inches at 100 Yards

## Zeroing your Scope

After you have completed the installation of your scope it will be necessary to adjust the scopes point of aim to match the bullet's point of impact on a target. This can be accomplished using several methods; we recommend the use of a Bore Sighting device to save time and ammunition. Using a Bore Sighting device will ensure that your shots land "on paper". Follow the Manufacturer's Instructions for the Bore Sighting device that you choose in order to achieve the best results. You are now ready to finalize your Zero.

- ❖ **CAUTION: ALWAYS BE SURE TO REMOVE THE BORE SIGHTING DEVICE BEFORE SHOOTING LIVE AMMUNITION. FAILURE TO DO SO CAN CAUSE DAMAGE TO YOUR FIREARM OR INJURY TO YOURSELF AND THOSE AROUND YOU.**
- ❖ **CAUTION: WHEN OPERATING ANY TYPE OF FIREARM ALWAYS USE PROPER EYE AND EAR PROTECTION. BE SURE TO USE YOUR FIREARM IN AN AREA THAT IS PERMISSIBLE UNDER LOCAL, STATE, AND FEDERAL LAW.**

Bore Sighting alone is not sufficient enough to ensure an accurate Zero. You must shoot your firearm at the range in order to confirm an accurate Zero. Follow these steps to fine tune your scope adjustments:

1. Secure your firearm using a steady platform such as a bench rest or sand bags.
2. Fire 3 to 5 carefully aimed shots at a target that is set to your desired Zeroing distance (starting at 50 or 100 yards is recommended).
3. Observe where the bullets have struck the target and make adjustments to the Elevation and Windage settings as necessary until your point of aim matches your point of impact.
4. Continue with this process until you have achieved your desired level of accuracy.
5. Your scope is now Zeroed to your firearm at the distance that you have chosen.

It is important to remember that many factors can affect the accuracy of your scopes zero including ammo type, temperature, humidity, elevation, distance, angle, and other conditions. Changing ammunition brands can affect Zero as well.

## **Illuminated Reticle**

There is a white dot on the center housing for the 1-6X scope (pictured) or ocular housing for the 4-16X scope as an indicator mark for the illuminated reticle brightness settings.



Depending in which direction you turn the rheostat, the reticle can be illuminated in Red or Green with multiple brightness levels for each color. If you look closely at the rheostat knob you will notice a series of numbers. "0" represents the OFF positions. If you turn the knob in either direction the reticle will be illuminated in Red or Green. There is 5 brightness levels, "1" being the dimmest and "5" being the brightest for each of the colors.

Adjust the brightness level as needed in accordance with the surrounding conditions. The illumination will increase reticle visibility especially during dusk, dawn, and in low light conditions. When the illumination is turned OFF the reticle will appear as the normal black lined reticle. Be sure the rheostat knob is set to the "0" position when not in use to preserve battery life.

## **Battery Installation**

This scope uses a CR2032 type battery inside the Rheostat knob. The Rheostat knob is located on the center housing for the 1-6X scope or on the ocular housing for the 4-16X scope model (pictured).

1. The Battery compartment is located within the Rheostat knob.



2. On the top of the Rheostat knob you will notice a thin top cap. To remove this cap grasp it firmly with one hand and twist it Counter-Clockwise (⤿) while holding the Rheostat Knob firmly in place with the other hand.
3. Remove the old battery and dispose of it properly. Replace it with a new 3 volt Lithium battery type **CR2032** only. Place the battery in the battery compartment with the Positive "+" terminal facing out. Twist the Battery Cap Clockwise (⤿) onto the Rheostat knob and hand tighten. Avoid using tools (such as pliers) to perform this procedure as this may cause damage to the unit.

## **Adjustable Parallax Knob**

The adjustable Parallax Knob on the 4X – 16X 44mm model will fine tune the parallax alignment of the P4 Sniper reticle to the target image inside the scope.

If you do not have the parallax adjust properly, the P4 Sniper reticle will seem to float/ move in relations to the target image, if you had the scope perfectly still and were to move your head around the ocular lens.

Have the scope on a stable setup/platform, while viewing your target through the scope. If you were to move your head around the ocular lens while viewing through the scope adjust the Parallax Knob in either direction until the P4 Sniper reticle stays perfectly still on your target image inside the scope. With the reticle properly adjusted, the reticle should remain perfectly still on your target image (as if the reticle was painted onto the target). Adjusting the parallax so that the reticle is stationary against the target image will help the shooter make a more precise and accurate shot at longer distances and help with shooting a more consistent and tighter shot groupings.

## **Care and Maintenance**

Your NCSTAR® Shooter Series scope is shock, fog, and water proof. However, you should never try to take it apart or clean it internally. The exposed optical lens surfaces will perform their best if they are routinely cleaned with a lens brush or a lens cloth. For a deep cleaning, you can also use high grade camera lens paper and camera lens cleaning solutions. Never use any other type of materials or solvents other than those designed specifically for optical lenses to avoid damaging your scope. Clean the outer portion of the lens cavity first with cotton swabs, clearing as much debris and dust as possible. Then, gently clean the lenses using a circular motion starting in the center and ending at the edges. Do not rub the lenses continually; simply wipe in short circular patterns. Maintain the exterior surfaces of the scope by removing dirt or sand by using a soft brush or a soft, dry cloth. It is not necessary to lubricate any part of the scope as all of the moving parts, such as the turrets and the quick focus eyepiece, are permanently lubricated. When not in use, always store your scope in a dry place with the lens caps on to prevent dust and scratches to the lenses.

❖ IF YOU ARE UNFAMILIAR WITH ANY OF THE PROCEDURES IN THIS MANUAL, ALWAYS SEEK THE HELP OF A QUALIFIED PROFESSIONAL TO AVOID DAMAGE TO YOUR SCOPE AND YOUR FIREARM.

## Scope Specifications

MODEL NUMBER	RETICLE	MAGNIFICATION	TUBE DIA.	OBJECTIVE DIA. (mm)	FOV (FEET @ 100 YARDS)	EYE RELIEF (in)	EXIT PUPIL (mm)	Weight (oz.)	LENGTH (in)	CLICK VALUE	LENS COATING
SEEFL1624G	LPV	1X - 6X	30mm	24 mm	106.3' - 17.3'	3.8"	11.5 - 4.0 mm	16.0	10.25"	½ MOA	Green
SEEFP41644G	P4 SNIPER	4X - 16X	30mm	44 mm	26.2' - 6.8'	3.7" - 3.3"	11.0 - 2.75 mm	23.0	13.4"	¼ MOA	Green

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FOR TECHNICAL ASSISTANCE CALL:  
1-866-NcSTAR-8  
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