



**MAVEN®**

**MAVEN CRS.1 RIFLESCOPE**

Thank you for purchasing a Maven™. Included here are instructions for getting your rifle scope ready for your next adventure. Rig it up, get out there, then let us know all about your journey. We love hearing your stories as much as we love making great products. Keep us in the loop at [stories@mavenbuilt.com](mailto:stories@mavenbuilt.com).

## PARTS OF THE RIFLESCOPE:

- |                                         |                  |
|-----------------------------------------|------------------|
| A. Diopter (focus) adjustment           | E. Objective end |
| B. Magnification (zoom) adjustment ring | F. Ocular end    |
| C. Elevation adjustment turret          |                  |
| D. Windage adjustment turret            |                  |



## GETTING STARTED:

### FOCUSING THE RETICLE:

Turn the diopter adjustment ring clockwise until it stops. While looking through the scope at a solid, light background (white wall, blue sky, etc.), slowly twist the diopter adjustment counter-clockwise until the reticle is clear and focused.

### CHANGING THE MAGNIFICATION:

Your scope has a variable power, allowing you to see a large field of view (FOV) at lower magnifications or more detail at higher magnifications. To decrease the magnification, turn the magnification adjustment ring toward the lowest setting. To increase magnification, slowly rotate the zoom ring away from the lowest setting until the desired power is reached.



Diopter/focus adjustment



Magnification adjustment

## **INSTALLING THE SCOPE:**

To ensure alignment, safe eye-relief, and the best performance of the scope, have a competent gunsmith mount the scope on your preferred firearm. If you choose to mount the scope yourself, use high quality rings designed specifically for your firearm and follow all torque settings recommended by the ring manufacturer or a competent gunsmith.

Note: Over-torquing the ring screws is a known cause of erratic shot placement and may damage the scope.

### **CENTERING (OR RE-CENTERING) THE RETICLE:**

The reticle is shipped in the mechanical center of the travel range. You can verify or re-align the reticle by turning the desired turret (elevation or windage) counter-clockwise until it stops. Slowly twist the turret clockwise while counting the total number of clicks. Once you have reached the mechanical stop on the far end, turn back counter-clockwise half the number of the total clicks counted. This will place the reticle in the mechanical center for that direction of travel. Repeat for the second turret if desired.

### **INITIAL ALIGNMENT OF THE SCOPE TO THE RIFLE:**

Bore sighting your rifle before going to the range can save time and money. Use a quality bore sight laser or other tool specifically designed for use with your make and caliber of firearm. Follow the manufacturer's instructions.

## ADJUSTING THE RETICLE (ZEROING):

Whether bore sighting or sighting in with live shots at the range, you will need to adjust the reticle to be “zeroed in” with your firearm.

### VERTICAL ADJUSTMENT (ELEVATION):

For a shot that is too low, turn the knurled knob of the elevation turret (on top of the scope) in the direction of UP (counter-clockwise). Each click will move the relative position of the reticle as indicated on your scope turret. 1 click = 1/4 MOA.

For a shot that is too high, make the same adjustments, but turn the turret clockwise.

### HORIZONTAL ADJUSTMENT (WINDAGE):

For a shot that is too far to the left, turn the knurled knob of the windage turret (on the right of the scope) in the direction of R (counter-clockwise). Each click will move the relative position of the reticle as indicated on your scope turret. 1 click = 1/4 MOA.

For a shot that is too far to the right, make the same adjustments, but turn the turret clockwise.

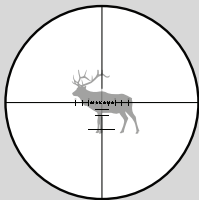


## FOCAL PLANES:

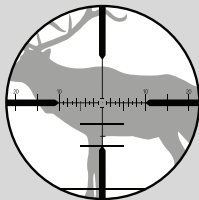
Our riflescopes come in two varieties of focal planes: first focal plane (FFP) and second focal plane (SFP). This describes where the reticle sits in relation to the magnification mechanism and describes how the reticle reacts (or doesn't) to a change in magnification.

### FIRST FOCAL PLANE:

The FFP is the newest style of modern hunting reticles and is the preferred focal plane for long-distance shooting. When adjusting the magnification, the reticle zooms with the magnification level and increases/decreases in size throughout the magnification range. Because the reticle changes at the same proportion, all subtensions units are displayed correctly regardless of the magnification setting. The example below illustrates how the reticle changes at different magnifications.



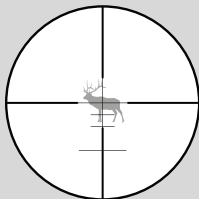
FOV @5x



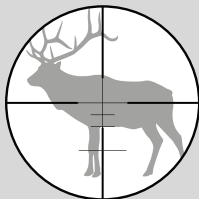
FOV @30x

## SECOND FOCAL PLANE:

The SFP reticle style is what most people are familiar with. When adjusting the magnification, the reticle stays the same size throughout the entire magnification range. Because the holdover subtensions are only correct at one magnification level (typically max power), holdover increments will need to be recalculated at lower magnifications. The example on the previous page illustrates how the reticle doesn't change at different magnifications.



FOV @2x



FOV @10x

## HOW SFP SUBTENSIONS ARE CALCULATED:

See [mavenbuilt.com](https://mavenbuilt.com) FAQ for more information on how to calculate subtensions for SFP reticles.

## ADDITIONAL INFO AND CARE:

**RINGS & BASES:** Use high quality rings and bases designed specifically for your firearm.

**TORQUE:** Always follow the ring manufacturers recommendations on torque when mounting the scope. Exceeding 18in/lbs of torque when tightening the rings may crack or damage the tube of the scope.

**STORAGE:** Prior to storage, ensure your scope is clean and dry. Place in a dark well-ventilated area for best result. If storing in a gun safe, ensure there is desiccant or a dryer in place to control humidity.

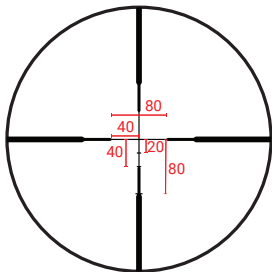
**CLEANING:** Keep the entire optic as free of dust and debris as possible. Remove as much dust and dirt as possible from the lenses with a blower or bristle brush similar to the one included in our Lens Cleaning Kit. Canned air is not recommended. Optical grade cleaning solution may be used to aid in this process. Do not use household glass cleaners as these may remove coatings.

### CAUTION

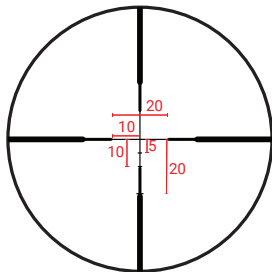
-Rifle scopes should not be used to look at the sun or any other bright light - this can permanently damage your eyes.

-Always maintain proper eye-relief (the distance from the scope to your eye) when mounting the scope. Failure to provide adequate eye-relief may result in injury caused by the scope striking the user's head/eye during rifle recoil.

## CRS.1 CSHR RETICLE



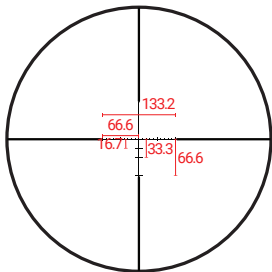
@ 3x



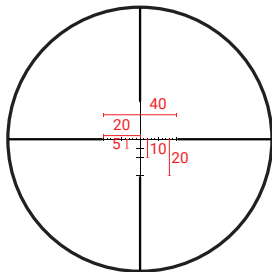
@ 12x

Subtension Dimensions (MOA)

## CRS.1 CSHR-W RETICLE



@ 3x

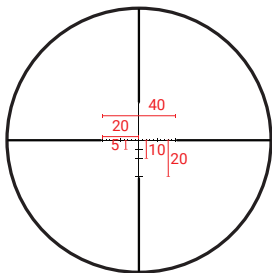


@ 10x

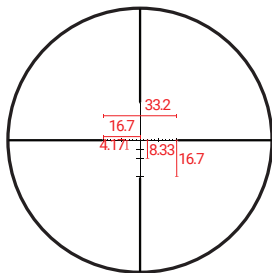
(Measurements accurate at 10x)

# Subtension Dimensions (MOA)

## CRS.1 CSHR-W RETICLE (CONTINUED)



@ 10x



@ 12x

(Measurements accurate at 10x)

# Subtension Dimensions (MOA)

## UNCONDITIONAL LIFETIME WARRANTY:

Maven optics are made with a commitment to you, our customer. All Maven optics come with an unconditional lifetime warranty\*. If your optic becomes damaged or is at all defective contact us immediately for repair or replacement. We don't care where or when you bought it or if it was your fault or not – if it says Maven, we will take care of it.

\*Warranty does not cover loss, deliberate damage, cosmetic modification, or cosmetic damage that does not hinder product performance.

Call us at 800-307-1109 or email us at: [customerservice@mavenbuilt.com](mailto:customerservice@mavenbuilt.com) with any questions.

For warranty/service repairs please visit: [mavenbuilt.com/warrantyreturns](https://mavenbuilt.com/warrantyreturns).

To ensure the fastest and easiest processing of any warranty return, please register your Maven optic. Jump on [mavenbuilt.com/warranty-registration](https://mavenbuilt.com/warranty-registration) to get registered quickly and easily.





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