



Brilliant Aiming Solutions™



Automatic LED



Adjustable LED



Dual Illuminated

# **Trijicon RMR®**

(Ruggedized Miniature Reflex)

**Instruction Manual**



# TABLE OF CONTENTS

Warnings & Cautions _____	3	Operation _____	25
Introduction _____	13	Adjustment Procedures _____	37
Specifications _____	17	Zeroing Procedures _____	43
Controls & Indicators _____	19	Cleaning & General Care _____	45
Identification & Markings _____	20	Appendix _____	47
Installation Instructions _____	21	Limited Lifetime Warranty _____	49
Preparation for Use _____	23		

## Warnings & Cautions

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### **WARNING**




- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **INTERNAL CHEMICAL BURNS** in as little as **2 HOURS**.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- **SEEK IMMEDIATE MEDICAL ATTENTION** if a battery is suspected to be swallowed or inserted inside any part of the body.





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- ⚠ Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. DO NOT dispose of batteries in household trash or incinerate.
  - ⚠ Even used batteries may cause severe injury or death.
  - ⚠ Call a local poison control center for treatment information.
  - ⚠ Compatible with 3.0 Vdc CR2032 batteries only.
  - ⚠ Non-rechargeable batteries are not to be recharged.

## Warnings & Cautions

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-  Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
-  Ensure the batteries are installed correctly according to polarity (+ and -).
-  Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.

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-  Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
  -  Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

## Warnings & Cautions

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### ***RADIOACTIVE MATERIALS SAFETY PRECAUTIONS***

Only the Dual Illuminated RMR<sup>®</sup> contains radioactive material for low light/no light illumination. The radiation source is hydrogen-3 (<sup>3</sup>H), commonly known as tritium. Tritium is an odorless, tasteless, colorless gas that reacts to the human body in the same manner as natural hydrogen. The human body does not easily retain hydrogen or tritium as a gas. However, the oxide, HTO, which is formed by the burning of tritium, is 10,000 times more hazardous. For this reason, great care should be taken to avoid flame in the presence of a Trijicon optic with a tritium lamp which is broken or is suspected of leaking.

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If the tritium lamp in the Trijicon® product is crushed or severely damaged to the extent that the tritium lamp inside might be damaged, follow safety procedures on next page. This Trijicon product is regulated under an EXEMPT LICENSE from the United States Nuclear Regulatory Commission (NRC) held by Trijicon, Inc. Disassembly of the scope is prohibited except by Trijicon, Inc.



### ***TRITIUM FAILURE INSPECTION***

Refer to page 24 for the procedure to follow to determine if the tritium lamp in the Dual Illuminated RMR® is working correctly.

# Warnings & Cautions

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## ***WARNING***

DO NOT eat, drink, smoke, or apply cosmetics in the presence of a Trijicon® product with a damaged tritium lamp.



## ***HANDLING A DAMAGED PRODUCT (exposed internals, fire, or crushed)***

DO NOT handle products with a damaged tritium lamp if you have open skin cuts or abrasions (use gloves). If the tritium lamp in a Trijicon product is broken or suspected of being broken, work in a well ventilated area and avoid inhaling air near the unit.

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Place the unit in a sealed plastic bag, immediately wash your hands with soap and water, and contact Trijicon's Customer Service Department at 1-800-338-0563.

 **WARNING**

Before installing the optic on a weapon, ensure the weapon is UNLOADED.

## Warnings & Cautions

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### **CAUTION**

DO NOT allow the *Fiber Optic Light Collector* of the Dual Illuminated RMR<sup>®</sup> (**Figure 1** on page 19) to come into contact with harsh organic chemicals such as acetone, trichloroethane, or other cleaning solvents. They will affect the appearance but not the performance.

Repair or maintenance other than that described in this manual is prohibited by anyone other than the manufacturer because of the radioactive material contained in this Trijicon<sup>®</sup> product.

# The Science of Brilliant®

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At Trijicon, we are bound by a commitment to industry-leading research, design, and testing to seek innovative aiming solutions that constantly redefine “brilliant.” That’s why Trijicon products are subjected to the below testing methods.



Alaska-to-Africa Tested | Immersion Tested | Solid Zero Tested  
Vibration Tested | Drop Tested

# Introduction

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The Ruggedized Miniature Reflex (RMR®) is intended for quick target acquisition. The Trijicon RMR is designed to be used with both eyes open providing the operator with maximum situational awareness. Accuracy is enhanced with both elevation and windage adjustments (see page 39, 41) and performance is assured with a strong 7075-T6 forged aluminum housing.

The RMR has enhanced electronic technology, maximizing durability. This is proven through extensive testing to properly function when mounted on slide ride pistol and/or all other small arms.

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Some RMR models incorporate a button lock mode and battery saving features which make this optic ideal for concealed carry and law enforcement use. The Trijicon RMR is extremely versatile with applications as a primary optic on handguns, rifles, carbines and shotguns. This optic also serves as a great backup sight when paired with a magnified optic. It serves as a quick solution to transition from longer ranges to close quarters.

The RMR is available in three different models: Automatic LED, Adjustable LED, and Dual Illuminated with multiple dot sizes, providing several options to suit different applications and objectives.

# Introduction

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## **Automatic LED RMR®**

The Automatic LED RMR utilizes a sensor that detects your lighting conditions and automatically adjusts the dot to the optimal brightness. It takes a single CR2032 battery to power and is always on and ready to go.

## **Adjustable LED RMR®**

The Adjustable LED RMR utilizes a sensor that detects your lighting conditions and automatically adjusts the dot to the optimal brightness. It also allows the user to make manual adjustments to the dot brightness. It takes a single CR2032 battery to power.

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The RMR also has a button lock out feature (explained on page 30) which allows the optic to function just like the Automatic LED RMR. This feature can be turned on and off as desired.

### **Dual Illuminated RMR®**

The Dual Illuminated RMR reticle is illuminated by fiber optics in lighted situations (e.g. daylight or in a lit room) and by tritium in no light situations (e.g. a dark room or night). No batteries are needed.

<b>RMR Specifications</b>		
	<b>Automatic LED</b>	<b>Adjustable LED</b>
Magnification	1x	1x
Sight Window	.87 x .63 in. 22 x 16mm	.87 x .63 in. 22 x 16mm
Adjustments	1 click = 1 MOA	1 click = 1 MOA
Adjustment Range	150 MOA Total Travel	150 MOA Total Travel
Dimensions (LxWxH) <small>(w/o mount)</small>	1.8 x 1.1 x 1.0 in. 46 x 28 x 25mm	1.8 x 1.2 x 1.0 in. 46 x 30 x 25mm
Weight <small>(w/o mount)</small>	1.2 oz. 34g	1.17 oz. 33.2g
Illumination Source	LED Powered by a CR2032 (Lithium Battery)	LED Powered by a CR2032 (Lithium Battery)
Battery Life	2 years of typical use*, 5 years in dark storage	4+ years of continuous use*, at setting 4 of 8
Brightness Settings	Automatic	Automatic and 8 Adjustable Settings
Housing Material	7075-T6 Forged Aluminum Housing	7075-T6 Forged Aluminum Housing

*For available mounting adapters, please visit our website.*

<b>RMR Specifications</b>	
	<b>Dual Illuminated</b>
Magnification	1x
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Adjustments	1 click = 1 MOA
Adjustment Range	150 MOA Total Travel
Dimensions (LxWxH) <small>(w/o mount)</small>	1.8 x 1.1 x 1.0 in. 46 x 28 x 25mm
Weight <small>(w/o mount)</small>	1.2 oz. 34g
Illumination Source	Tritium & Fiber Optics
Battery Life	N/A
Brightness Settings	Automatic
Housing Material	7075-T6 Forged Aluminum Housing

*For available mounting adapters, please visit our website.*

# Controls & Indicators

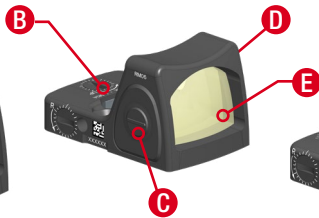
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- A** Windage Adjuster
- B** Elevation Adjuster
- C** Minus (-) Brightness

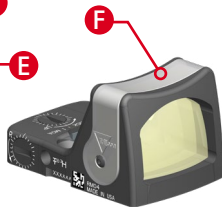
- D** Plus (+) Brightness Adjuster
- E** Lens
- F** Fiber Optic Light Collector



Automatic LED RMR®



Adjustable LED RMR®



Dual Illuminated RMR®

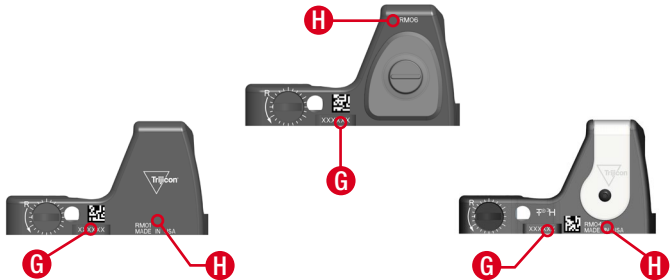
FIGURE 1

# Identification & Markings

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**G** Serial Number

**H** Model



**FIGURE 2**

## Installation Instructions: All Models

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Two sets of screws are supplied with the RMR®. Both sets are #6-32 flat head torx cap screws. One set is 1/2" long, and the other is 3/8" long. The shorter screws are required for mounting the RMR to a Glock® MOS system.



RMR Screw Set

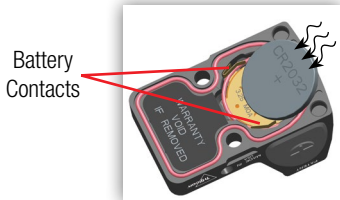
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For other mounting applications use the longer screws whenever possible, to maximize thread engagement. Your specific mounting application may require screws of different length or thread pitch. It is recommended to torque mounting screws to 15 in-lbs when mounting the optic.

# Preparation for Use

## Adjustable LED and Automatic LED Versions

Install battery into sight so that the negative (–) side of the battery is facing down as marked on the contact. Slide the battery into place from front to rear. See **Figure 3** and **4** for proper battery installation. Failure to install the battery properly may bend the contacts and prevent operation.



**FIGURE 3**



**FIGURE 4**

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## **Dual Illuminated Version**

To determine that the tritium lamp is functioning in the RMR, enter a dark room and look through the sight. The illumination provided by the tritium lamp is very faint and will be hard to see without a dark adapted eye. Remain in the dark room for approximately 10 minutes to adapt your eyes to the dark. If the reticle does not appear to illuminate in the dark, please contact Trijicon, Inc.

## Operation

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**WARNING:** The Trijicon® Adjustable LED and Automatic LED are shipped with a new lithium battery. Lithium batteries or lithium button cells pose the risk of fire. The battery can explode or leak and cause injury if installed backwards, disassembled, charged, crushed or exposed to fire or high temperature. Keep out of reach of children. Check local municipality for proper disposal. California Only; Perchlorate Material – special handling may apply.

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The Adjustable LED and Automatic LED models use one (1) CR2032 battery to power the RMR which is included in the original packaging. The battery life, as stated in the specs, is based on use under normal operating conditions. Extreme high and low temperatures and usage on higher settings will have dramatic effects on the battery life.

Trijicon recommends replacing the battery once a year, or more often if frequently used on higher power settings. The aiming dot will not immediately turn off when the battery life gets low, it will gradually become dimmer over time.

## Operation: Automatic LED RMR

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### **Automatic LED RMR®**

The power is always on in this unit unless the battery is removed or depleted. The RMR powers up into “Automatic Mode” upon battery insertion.



Automatic LED RMR®

### **Battery Conservation Feature**

The optic will automatically adjust the brightness of the reticle based on lighting conditions. When in dark storage, the Automatic LED RMR remains “on” and automatically dims to the lowest brightness setting, conserving battery power.

## Operation: Adjustable LED RMR

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### **Adjustable LED RMR®**

To turn the unit on, simply press one of the buttons on either side of the unit and it will power into the default “Automatic Mode”.

The plus (+) and minus (-) buttons on each side are what control the dot manual brightness. There are eight (8) brightness settings, one (1) being the dimmest and eight (8) being the brightest.

Please note that settings 1 and 2 are designed to be used with night vision devices and will not be visible to the naked eye.



Adjustable LED RMR®

## Operation: Adjustable LED RMR

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To place the unit in “Automatic Mode” (where the dot automatically adjusts to ambient light), press both the (+) and minus (–) buttons simultaneously for less than one (1) second and release. To turn the unit “Off” press and hold both buttons for at least three (3) seconds. To “Lock Out” the buttons, press one button (+) or (–), and hold for three (3) seconds and release.

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## **To put the RMR® into Button “Lock Out” Mode:**

1. The RMR must be turned off with battery installed.
2. Press and hold both both the plus (+) and minus (–) buttons for at least three (3) seconds and the RMR will power up in automatic mode with manual brightness settings locked out.
3. To regain manual adjustment, press and hold both the plus (+) and minus (–) buttons for at least three (3) seconds to shut off the RMR.
4. Press either the plus (+) and minus (–) button to turn the RMR on into the default “Automatic Mode”. You will now have the ability to adjust the brightness manually.

## Operation: Batteries

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### **Battery Conservation Feature**

The RMR® (Adjustable LED model) is equipped with a 16.5 hour reset timer to force the optic into automatic mode if the RMR has been manually set to any level of brightness. Each time you press a button, the automatic timer will reset to 16.5 hours. This timer adds the benefit of conserving battery power if the RMR is inadvertently left in the manual mode at a high brightness setting for extended periods of time. Power savings is achieved when the RMR can dim the brightness level to a low power mode (setting 3) when in storage.

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## **Replacing Batteries**

If the RMR® is on a mount, disassemble by removing the two RMR screws with the supplied hex wrench. Once the sight is removed, carefully lift the battery out of the battery compartment.

Before installing the new battery, inspect the new battery and battery compartment to ensure there is no corrosion or damage. Install the battery into the sight using the procedures on page 23. Ensure the sight is now functioning and the dot illuminates.

## Operation: Batteries

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**NOTE:** The battery may sit about .020" proud of the bottom of the RMR®. This is by design to allow compression of the battery o-ring once the RMR is installed onto its mount.

It is recommended to use the Trijicon sealing plate (RM63) to achieve a waterproof seal up to 66 ft.



**FIGURE 5**

## Operation: Batteries

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Place the RMR back onto the mount, aligning the holes on the sight with the holes in the mount and pressing down until the sight is fully seated (the sight should sit flush on the mount). Place the two (2) RMR screws back in place, and tighten down with the supplied hex wrench. See **Figure 5** on the previous page.

## Operation: Dual Illuminated RMR

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### **Dual Illuminated RMR®**

Illumination is provided from a combination of tritium and fiber optics and automatically adjusts based on ambient lighting conditions, no batteries are needed.



Dual Illuminated RMR®

## Adjustment Procedures: All Models ---

The Trijicon RMR® is internally adjustable. It is shipped with the illuminated dot in a factory centered position. Normally, this means that only small adjustments are necessary. The adjusters do not require a specific tool. Simply use a coin, such as a dime or penny, to fit the slot on the adjustment dial. Other useable items include the rim of a cartridge case or a flat-head screwdriver.

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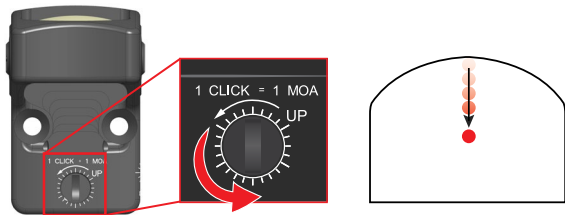
**CAUTION:** The windage and elevation adjusters should never be moved all the way to the extremes. It is possible that over-adjustment can damage the sight. When rotating the adjusters, the resistance will increase as you reach the limits of the mechanism. If adjusted past this point, the mechanism will break. For standard use you should be fine to adjust as needed, if you have questions please contact Trijicon Customer Service at 1-800-338-0563 or email [info@trijicon.com](mailto:info@trijicon.com).

# Adjustment Procedures: All Models

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## Elevation Adjustment

Moving the adjuster in the direction of the arrow (counterclockwise) will move the bullet's Point of Impact (POI) UP as indicated on the adjuster (**Figure 6**). Adjustment increments are one (1) MOA per click, meaning that one (1) click is required to move the bullet's impact one inch on a target at 100 yards. The amount of clicks can be detected through audible and tactile feedback. See page 43 for information on a 25 yd. zero.



Turning the Elevation Adjuster counterclockwise results in the dot moving **DOWN** which means the bullet's POI moves **UP**.

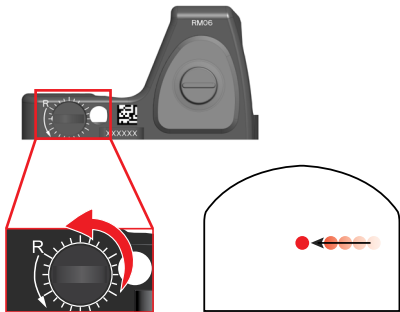
**FIGURE 6**

# Adjustment Procedures: All Models

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## Windage Adjustment

Moving the adjuster in the direction of the arrow (counterclockwise) will move the bullet's Point of Impact (POI) RIGHT, as indicated on the adjuster (**Figure 7**). Adjustment increments are one (1) MOA per click, meaning that one (1) click is required to move the bullet's impact one inch on a target at 100 yards. The amount of clicks can be detected through audible and tactile feedback. See page 43 for information on a 25 yd. zero.



Turning the Windage Adjuster counterclockwise results in the dot moving **LEFT** which means the bullet's POI moves **RIGHT (R)**.

**FIGURE 7**

# Zeroing Procedures: All Models

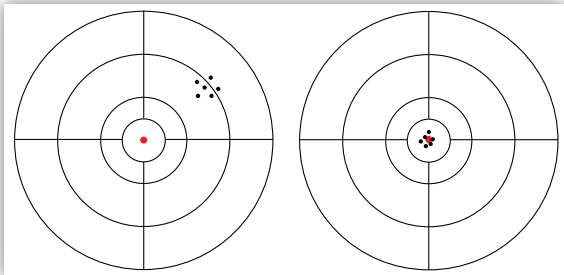
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## 25 Yard Zero

Center the aiming dot on a 25 yard target and fire a precise shot group – a minimum of three (3) rounds. Evaluate the location of the shot group compared to your Point of Aim (POA). Adjust the Windage and Elevation, and shoot another series of shots, until the center of the shot group is on the center of your POA. This establishes the POA as the Point of Impact (POI) for the bullet.

One (1) MOA = one (1) click, which provides about a one (1) inch shift in bullet impact at 100 yards or  $\frac{1}{4}$  inch per click at 25 yards.

**NOTE:** Once RMR® changes weapon platforms, it will need to be re-zeroed for new firearm.



**FIGURE 8**

# Cleaning & General Care: All Models ---

## **General Information**

This Trijicon® product requires very little maintenance. If the lenses become dirty, wash using fresh water or lens cleaner and a soft clean cloth.

The outside lenses may fog over in cold weather. Remove fog by using a dry, clean soft cloth. Anti-fog solutions can be applied to the exterior of the lenses to help prevent fogging during temperature changes.

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**CAUTION:** On Dual Illuminated models, Trijicon recommends that you DO NOT allow the Fiber Optic Light Collector of this Trijicon® product (**Figure 1** on page 19) to come into contact with harsh organic chemicals such as acetone, trichloroethane, or other cleaning solvents. They will affect the appearance, but not the performance. Trijicon's warranty does not apply to cosmetic damage.

# Appendix

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## Troubleshooting

Please visit [www.trijicon.com](http://www.trijicon.com) for answers to any questions you might have regarding your product. For more detailed information, please contact our Customer Service Department at 1-800-338-0563, or email us at [customerservice@trijicon.com](mailto:customerservice@trijicon.com).

## Models & Accessories

Visit [www.trijicon.com](http://www.trijicon.com) or contact Trijicon Customer Service at 1-800-338-0563 or for all available mounts and accessories.

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## Patents & Trademarks

U.S. patents may apply to this product. Visit [www.trijicon.com/patents](http://www.trijicon.com/patents)

## Limited Lifetime Warranty

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The original owner of the Trijicon® product registered with the warranty card is entitled to repair or replacement (at our option) of the registered item if it should fail due to defects in material or workmanship during normal use. This warranty specifically applies to the optical systems and metal structure of the product and does not apply to the illumination system. Electronics are warranted to be free of defects in material and workmanship during normal use for a period of 5 years from the date of manufacture. If repair is necessary, please contact our Customer Service Department for return instructions. This warranty does not apply to defects caused by anything which is deemed abnormal, abusive, or improper including any fault resulting from an accident or improper service. Please note that the manufactures warranty will be void and the product cannot be serviced if it is exported from the United States in violation of U.S. Export Control Laws and Regulations. Any attempt at disassembly or repair will annul this warranty. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.





**[Trijicon.com/RMR](https://www.trijicon.com/RMR)**

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