



Brilliant Aiming Solutions™



Trijicon RCR™

(Ruggedized Closed Reflex)

Instruction Manual

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Warnings & Cautions

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

-  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

WARNING

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

CAUTION

This Trijicon® product is 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.



CAUTION

DO NOT allow harsh organic chemicals such as acetone, trichloroethane, or other cleaning solvents to come in contact with this Trijicon® product. 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.

The Science of Brilliant®

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

The Ruggedized Closed Reflex (RCR™) is specifically designed for use on multiple weapon platforms. The RCR is designed to be used with both eyes open providing the operator with maximum situational awareness and quick target acquisition. Accuracy is enhanced with both elevation and windage adjustments (see page 27, 29) and performance is assured with a durable 7075-T6 aluminum housing.

The Trijicon RCR features a large clear window, improved tactile adjustment buttons, and a machined aluminum housing that surpasses the RMR® in durability. The large field of view also aids in finding and tracking the dot more easily.

Introduction

The RCR™ is based on the award winning Ruggedized Miniature Reflex (RMR®), a design which achieves unprecedented levels of mechanical and electrical robustness. Specifically, the RCR is a perfect choice for slide ride and frame mounted pistols and/or all other small arms that require fast target acquisitions and aiming clarity.

The RCR utilizes the industry leading Trijicon RMR footprint for mounting which makes it easily compatible with firearms already accepting the RMR.

The RCR will also work with traditional suppressor height iron sights in the same way as the Trijicon RMR.

A single CR2032 battery powers the system via a top loading battery cap. The optic does not need to be removed to change the batteries, thus alleviating concerns regarding the need to re-zero the optic. Even though all Trijicon optics maintain their zero after changing batteries (even those that are removed and properly reinstalled), Trijicon strongly recommends that the user confirms the optic's zero anytime a battery is replaced.

The RCR also has a Brightness Lock-In feature (explained on page 23). These features can be turned on and off as desired.

RCR Specifications	
Magnification	1x
Sight Window	.88 x .64 in. 22.3 x 16.3mm
Adjustments	1 click = 1 MOA
Adjustment Range	±75 MOA
Dimensions (LxWxH) (w/o mount)	1.8 x 1.2 x 1.3 in. 45.7 x 30.5 x 33mm
Weight (w/o mount)	1.95 oz. (w/ battery) 55g
Optical Center Over Base	0.69 in 17.53mm
Illumination Source	LED Powered by a Top Loading CR2032 (Lithium Battery)
Battery Life	56,000 hours (6.4 years) of continuous use, at setting 5 of 10, dot only
Brightness Settings	10 Adjustable Settings (3 NV, 7 Visible)
Housing Material	Machined 7075-T6 Aluminum Housing

For available mounting adapters, please visit our website.

Controls & Indicators

A Elevation Adjuster

B Battery Compartment

C Lens

D Plus (+) Brightness Adjuster

E Minus (–) Brightness Adjuster

F Windage Adjuster

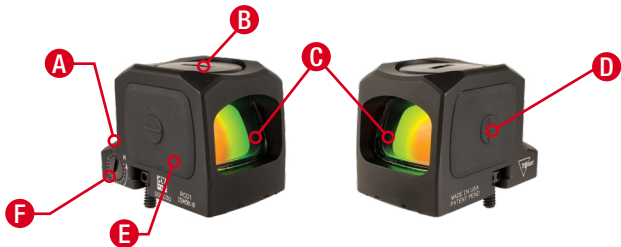


FIGURE 2

Identification & Markings

G Serial Number

H Model



FIGURE 3

Installation Instructions

WARRANTY VOID WARNING: The bottom of the RCR™ is completely sealed and does not require a sealing plate to make the optic waterproof. Removing or tampering with the bottom plate and/or seal will void the Trijicon warranty.

The RCR can be directly mounted to most RMR® footprints.

Four (4) #6-32 custom capstan screws are supplied. Any tool that fits the holes in the capstan head screw may be used, including, but not limited to, pins, a 1/16th hex key, etc.

Installation Instructions

The screw length provided should be sufficient for most mounting applications, however in the event longer screws are needed, consult Trijicon.com or contact customer service. It is recommended to torque the mounting screws to 15 in-lbs, which can be accomplished by using the provided 1/16th hex key and torque graphic. A thread locker (Loctite™ 242/243) is also supplied with the optic and should be applied to the leading threads of each fastener upon installation. A 24-hour cure time is recommended.

For more information on the RCR™ and how to install it, please scan this QR code:



Preparation for Use

Battery Installation

Install battery so that the positive (+) side faces the cap (as shown).



FIGURE 4

Preparation for Use

Ensure the battery cap o-ring is properly seated in its groove on the cap before assembly to the housing. Set the cap into the housing lightly pressing down to mate the leading threads of the cap to the housing pocket. Using a tool (flat blade screwdriver, quarter, penny, dime, nickel, 9mm case rim, .223 Rem case rim, etc.), rotate/turn the cap clockwise until resistance is felt. Take care not to cross thread the cap and pocket threads. The cap should thread easily if the threads are aligned during installation.

Operation

The RCR™ uses one (1) CR2032 battery to power the LED which is included in the original packaging and already installed in the optic.

The battery life has been tested to provide over six (6) years (on setting 5 of 10) of “continuously on” power in normal operating conditions. Extreme high and low temperatures, and usage on higher brightness settings, will have dramatic effects on the battery life.

Operation

Trijicon recommends replacing the battery once a year, or more frequently if used on higher brightness settings or continuous use of dot. The dot brightness at each setting will remain constant throughout the life of the battery. However, if the voltage drops too low, the RCR™ may not power up normally, which would require the battery to be replaced.

RCR

To turn the unit on, simply press and release one of the buttons on either side of the unit, and it will power into the default Manual Mode. The plus (+) and minus (−) buttons on each side control the manual dot brightness. There are ten (10) brightness settings, one (1) being the dimmest and ten (10) being the brightest.

Please note that settings 1, 2, and 3 are designed to be used with night vision devices and will not be visible to the naked eye.

Operation

To turn the optic off, press and hold both the plus (+) and minus (–) buttons for at least six (6) seconds.

To place the RCR into Manual Brightness Lock-In Mode:

1. Manually select the desired brightness setting by pushing either the plus (+) or minus (–) button. Once the desired setting is selected, press and hold either button for three (3) seconds. The dot will blink accepting the brightness level and will then lock into that setting.
2. To change Lock-In settings, press and hold both the plus (+) and minus (–) buttons for one (1) second to return to manual control. Repeat step 2.

Replacing Batteries

If the RCR is mounted, there is no need to remove it from the firearm to replace the battery. Ensure the firearm is free of any ammunition source before replacing the battery. Inspect the new battery to ensure there is no corrosion or damage. Install the battery into the sight using the procedures on page 15. Ensure the sight is now functioning and the dot illuminates.

The RCR is waterproof up to 66 ft. (20 m) of submersion as shipped from the factory. The bottom plate is permanently attached and should not be removed by the user.

Adjustment Procedures

The Trijicon RCR™ 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.

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 may break. If you have questions please contact Trijicon Customer Service at 1-800-338-0563 or email info@trijicon.com.

Adjustment Procedures

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 5**). Adjustment increments are one (1) MOA per click, meaning that one (1) click is required to move the bullet's impact one (1) inch on a target at 100 yards. The amount of clicks can be detected through audible and tactile feedback. The laser etched tick marks on the housing around the adjustment screws, can be used for adjustment reference.

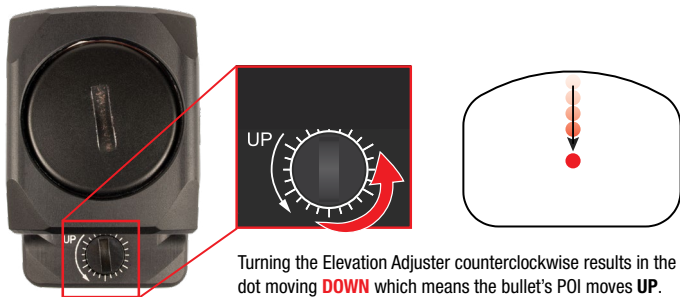
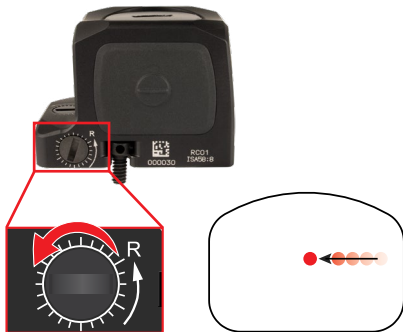


FIGURE 5

Adjustment Procedures

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 6**). Adjustment increments are one (1) MOA per click, meaning that one (1) click is required to move the bullet's impact one (1) inch on a target at 100 yards. The amount of clicks can be detected through audible and tactile feedback. The laser etched tick marks on the housing around the adjustment screws, can be used for adjustment reference.



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

FIGURE 6

Zeroing Procedures

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 location of 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 the RCR™ changes firearm platforms, it will need to be re-zeroed for the new firearm.

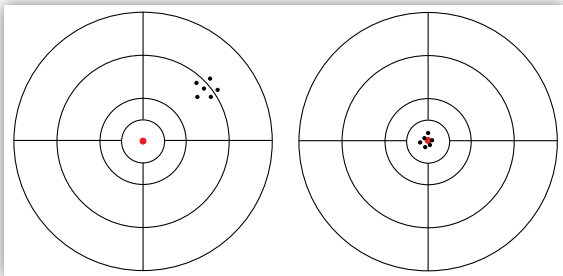


FIGURE 7

Cleaning & General Care ---

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.

Troubleshooting

Please visit our FAQ page at 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.

Models & Accessories

Contact Trijicon Customer Service at 1-800-338-0563 or visit our website at www.trijicon.com for all available mounts and accessories.

Patents & Trademarks

U.S. patents may apply to this product. For details, visit www.trijicon.com/patents.

Limited Lifetime Warranty

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/RCR](https://www.trijicon.com/RCR)

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