Crimson Trace CMR-207G

Crimson Trace CMR-207 Rail Master Pro Green Laser Instruction Manual

Model: CMR-207G

Introduction

The Crimson Trace CMR-207 Rail Master Pro is a compact and powerful accessory designed for firearms equipped with M1913 Picatinny or Weaver-style accessory rails. It integrates a 400 Lumen LED flashlight and a 5mW peak, 620-670nm, Class 3R visible green laser. This unit features instant activation and memory retention, allowing it to recall the last used setting. Constructed from anodized aluminum with polymer paddles, it offers durability and water resistance for reliable long-term use.



Image: The Crimson Trace CMR-207 Rail Master Pro with its green laser and flashlight active, mounted on a pistol.

Safety Information

WARNING: This product contains a Class 3R laser. Direct exposure to the laser beam may cause eye injury. Never look directly into the laser beam or point it at people or animals. Always follow safe firearm handling practices. Ensure the firearm is unloaded and pointed in a safe direction before installing, adjusting, or performing maintenance on the CMR-207. Keep out of reach of children.

- Always verify the firearm is unloaded before handling.
- Wear appropriate eye protection when operating firearms.
- Do not disassemble the laser unit; refer servicing to qualified personnel.
- Dispose of batteries according to local regulations.

Package Contents

Verify that all items are present in the package:

- Crimson Trace CMR-207 Rail Master Pro Unit
- Mounting Hardware
- Adjustment Tools
- User Manual (this document)

Setup

Mounting the Unit

The CMR-207 is designed for secure attachment to most pistols, shotguns, and rifles equipped with M1913 Picatinny or Weaver-style accessory rails. Ensure the firearm is unloaded and safe before proceeding.

1. Align the CMR-207's rail clamp with the accessory rail on your firearm.
2. Slide the unit onto the rail until it is in the desired position.
3. Tighten the mounting screw securely. Ensure the unit is firmly attached and does not wobble. Overtightening may damage the threads.



Image: Side view of the CMR-207 mounted on a pistol, showing its compact profile.



Image: Opposite side view of the CMR-207 on a pistol, highlighting the activation paddle.

Battery Installation

The CMR-207 uses a single CR2 battery. To install or replace the battery:

1. Ensure the unit is off.
2. Unscrew the front cap of the unit (flashlight bezel).
3. Insert the CR2 battery with the positive (+) end facing forward (towards the flashlight lens).
4. Screw the front cap back on firmly. Ensure it is tightened completely to ensure proper electrical contact and water resistance. A loose cap can lead to intermittent operation of the flashlight or laser.

Operating Instructions

Activation and Mode Selection

The CMR-207 features ambidextrous activation paddles located on both sides of the unit. It also includes memory retention, which means it will power on in the last mode used.

- **Instant Activation:** Press either activation paddle once to turn the unit on or off.
- **Mode Selection:** To cycle through the available modes (Laser only, Light only, Laser and Light, Strobe Light), press and hold either activation paddle for approximately 1 second. Release the paddle when the desired mode is active. The unit will remember this setting for subsequent activations.



Image: Front-side view of the CMR-207 on a pistol, demonstrating both light and laser functions.

Laser Adjustment (Zeroing)

The laser can be adjusted for windage and elevation to align with your firearm's point of impact. Use the provided adjustment tools.

1. With the firearm unloaded and secured, activate the laser.
2. Identify the windage and elevation adjustment screws on the unit.
3. Using the small hex wrench, turn the screws incrementally to move the laser dot.
    - Turning the elevation screw clockwise typically moves the laser dot down; counter-clockwise moves it up.
    - Turning the windage screw clockwise typically moves the laser dot right; counter-clockwise moves it left.
4. Fire a test group at a target and make further adjustments as needed until the laser dot coincides with your point of impact.



Image: Another front-side perspective of the CMR-207 on a pistol, showing the active light and laser.

Maintenance

Cleaning

Keep the lens of the flashlight and the laser emitter clean for optimal performance. Use a soft, lint-free cloth and a small amount of lens cleaning solution if necessary. Avoid abrasive materials or harsh chemicals.

Battery Replacement

Replace the CR2 battery when the light or laser output diminishes. Refer to the "Battery Installation" section under Setup for detailed steps. Always ensure the battery cap is tightened securely after replacement.

Troubleshooting

Problem	Possible Cause	Solution
Unit does not turn on or operates intermittently.	Loose battery cap, dead battery, poor battery contact.	Ensure the front cap is screwed on tightly. Replace the battery with a fresh CR2 battery. Check for any debris obstructing battery contacts.
Laser does not hold zero.	Unit not securely mounted to the rail.	Re-tighten the mounting screw firmly. Ensure the unit is seated correctly in a rail slot. Consider using thread locker if persistent.
Laser appears dim when flashlight is also active.	Power distribution characteristics of the unit.	This may be a characteristic of the unit's power management. If maximum laser brightness is required, operate in laser-only mode.
Unit activates unintentionally (e.g., in holster).	Activation paddles are sensitive and can be pressed by external objects.	Exercise caution when handling or holstering the firearm. Consider a holster designed to prevent accidental activation of rail-mounted accessories.

Specifications

- **Model:** CMR-207G
- **Laser Type:** Green Laser, Class 3R
- **Laser Output:** 5mW peak, 620-670nm
- **Flashlight Output:** 400 Lumens
- **Runtime:** 1.5 hours (combined laser and light)
- **Compatibility:** M1913 Picatinny and Weaver-style accessory rails
- **Material:** Anodized Aluminum, Polymer
- **Weight:** 0.36 Pounds
- **Battery:** 1x CR2 (included)
- **Water Resistance:** Yes

Warranty and Support

The Crimson Trace CMR-207 Rail Master Pro is covered by the Crimson Trace Protect Limited Lifetime Warranty. For specific details regarding warranty coverage, claims, or technical support, please visit the official Crimson Trace website or contact their customer service department.
Website: https://www.crimsontrace.com/support/warranty

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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