



***CRIMSON TRACE***<sup>®</sup>

**USER GUIDE**

**LG-459 & LG-459G LASERGUARD**<sup>®</sup>



**PROTECTION**

# PLEASE READ THE ENTIRE MANUAL

**FAILURE TO FOLLOW THESE INSTRUCTIONS AND PROCEDURES MAY RESULT IN INJURY OR DEATH.**

Always follow firearm safety rules as outlined by the firearms manufacturer.


 **WARNING: VISIBLE LASER RADIATION EMITS FROM THE CRIMSON TRACE® LASERGUARD® WHILE IN OPERATION - AVOID DIRECT EYE EXPOSURE OR PERMANENT EYE DAMAGE MAY RESULT.**

Keep this and all firearm related products locked and secured from children or other unauthorized users.

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## GENERAL WARNINGS

 **WARNING: READ THESE INSTRUCTIONS AND WARNINGS CAREFULLY. BE SURE YOU UNDERSTAND THESE INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT ON A FIREARM. FAILURE TO READ THESE INSTRUCTIONS AND TO FOLLOW THESE WARNINGS MAY RESULT IN SERIOUS INJURY OR DEATH TO YOU AND OTHERS AND DAMAGE TO PROPERTY.**

 **WARNING: ENSURE THAT YOUR FIREARM IS UNLOADED, THE MAGAZINE IS REMOVED, THE SAFETY IS ON AND YOUR FINGER(S) ARE OFF THE TRIGGER BEFORE ATTEMPTING TO INSTALL, REMOVE OR ADJUST YOUR LASER SIGHT. FOLLOW THE BASIC FIREARMS SAFETY RULES AT ALL TIMES.**

 **WARNING: DO NOT INSTALL OR USE THIS PRODUCT IF THE INSTALLATION OF THE PRODUCT IN ANY WAY AFFECTS THE SAFE FUNCTION OF THE FIREARM.**

ALWAYS FOLLOW THE 4 RULES OF FIREARM SAFETY:

1. HANDLE ALL FIREARMS AS IF THEY ARE LOADED.
2. NEVER LET THE MUZZLE COVER ANYTHING THAT YOU ARE NOT WILLING TO DESTROY.
3. KEEP YOUR FINGER OFF THE TRIGGER UNTIL YOUR SIGHTS ARE ON THE TARGET AND YOU ARE READY TO FIRE.
4. BE SURE OF YOUR TARGET AND WHAT IS BEYOND.

REMEMBER, THE USER IS ALWAYS RESPONSIBLE FOR THE SAFE USE OF A FIREARM.

CRIMSON TRACE RECOMMENDS THAT EVERY GUN OWNER TAKE A GUN SAFETY COURSE FROM A CERTIFIED NRA INSTRUCTOR BEFORE HANDLING OR FIRING YOUR FIREARM.

## LG-459 & LG-459G KEY FEATURES

- A. PROVIDED SCREWS (3x)
- B. BATTERY CAP
- C. BATTERY
- D. LOCKING GROOVES



**WARNING: USE CAUTION WHEN ACTIVATING THE LASER TO AVOID DIRECT EYE EXPOSURE, WHICH CAN RESULT IN PERMANENT EYE DAMAGE. FOLLOW ALL PRECAUTIONS AS OUTLINED BY THE FIREARMS MANUFACTURER. KEEP THIS AND ALL FIREARM RELATED PRODUCTS LOCKED AND SECURED FROM CHILDREN OR OTHER UNAUTHORIZED USERS.**

## SMITH & WESSON® M&P® 380 SHIELD™ EZ™ & M&P® 22 COMPACT

## INSTALLATION INSTRUCTIONS

1. Make sure firearm is unloaded. Remove magazine and double check that chamber is empty. (See “Inspecting Your Pistol” section in the Safety & Instruction Manual that accompanied your firearm” in Owner’s Handbook.)
2. Slide laser side of Laserguard® laser sight under the trigger guard. Ensure activation button hooks around to the left side of the trigger guard and rests on the front strap.
3. Hook left side of Laserguard® laser sight into the right, at an angle, by inserting into locking grooves located near activation button. Apply pressure to the front of both sides until both sides join together.
4. Install the three provided screws into the left side (non-laser side) of the Laserguard® laser sight using the .050" hex wrench (provided). Tighten together until there is no gap.
5. Insert battery with the flat, (+) side facing out. Refer to image above.
6. Slide battery cap into place.
7. Slide Master ON/OFF switch to the forward “ON” position.
8. Press activation button to turn on laser. Confirm that laser and iron sights are in alignment. Laser dot should rest on top of front site post with correct iron sight picture. Laserguard® laser sights are sighted-in at the factory at 50 feet, but can be fine-tuned for windage and elevation. (See Windage & Elevation Adjustments section.)

## OPERATING INSTRUCTIONS

The LG-459 and LG-459G are activated by a strategically located pressure pad on the front strap, directly beneath the trigger guard. With a normal shooting grip, your middle finger will naturally hit the pressure pad and activate the laser, whether shooting right or left-handed.

A master ON/OFF switch is located on the right side of the Laserguard. Turning the master switch OFF will NOT increase battery life.

## LASER SAFETY LABELING

IMPORTANT: LASER PRODUCTS MUST ONLY BE OPERATED WITH THE SAFETY LABEL APPLIED TO THE FIREARM.

Labels could not be affixed to the product but are supplied and must be installed as indicated and shown below:

- Attach the "Aperture" warning label with the arrow pointing to the laser aperture.
- Attach the "Danger" warning label to the outside of the firearm.

**⚠ WARNING: USE CAUTION WHEN ACTIVATING THE LASER TO AVOID DIRECT EYE EXPOSURE, WHICH CAN RESULT IN PERMANENT EYE DAMAGE. FOLLOW ALL PRECAUTIONS AS OUTLINED BY THE FIREARMS MANUFACTURER. KEEP THIS AND ALL FIREARM RELATED PRODUCTS LOCKED AND SECURED FROM CHILDREN OR OTHER UNAUTHORIZED USERS WHEN NOT IN USE.**

## PRODUCT SPECIFICATIONS

Beam Intensity Red: 5mW peak, 620-670 nm, Class 3R laser

Beam Intensity Green: 5mW peak, 515-532 nm, Class 3R laser

Dot Size: Approximately 0.5" diameter at 50 feet

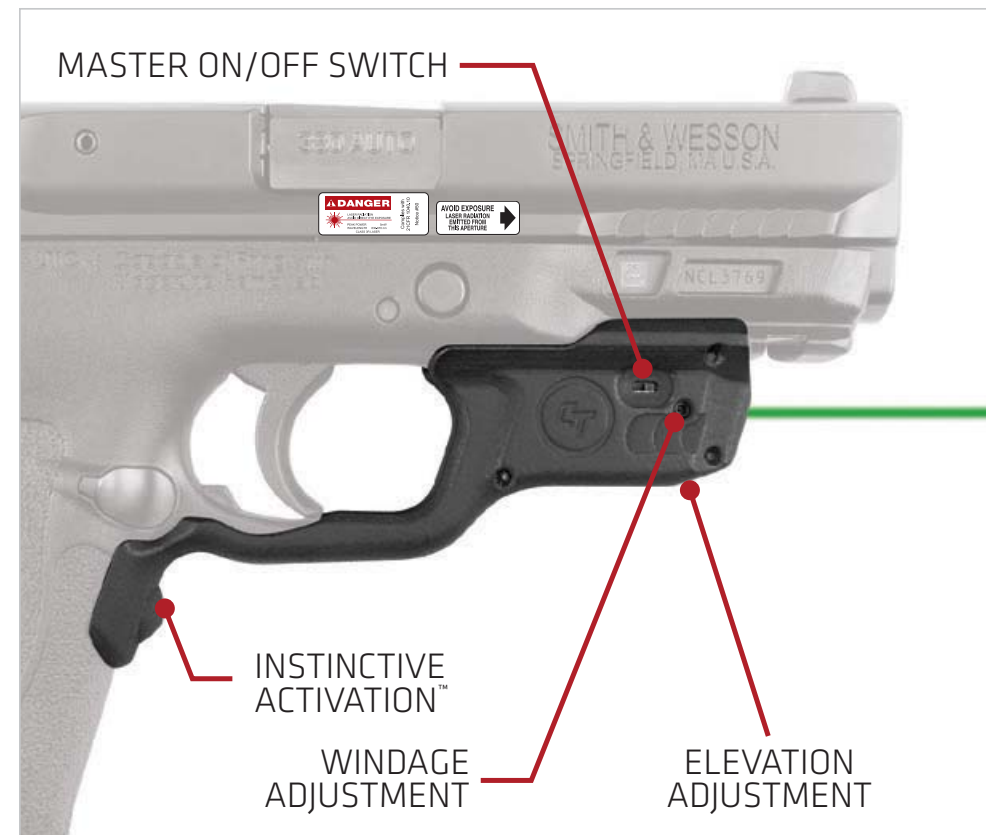
Batteries: One 1/3N 3V lithium

Red Laser: over four hours of illumination

Green Laser: over two hours of illumination

Activation: Front-located integrated momentary pressure pad

This product complies with 21 CFR 1040.10



## WINDAGE & ELEVATION ADJUSTMENTS

Crimson Trace® laser sights are pre-sighted at the factory to 50 feet. All products are fully adjustable for windage and elevation if further adjustments are desired. A good starting point is to align the laser with the fixed sights on the firearm. (Fig. 1 on page 8).





A two-screw alignment system is used to adjust for windage and elevation. The adjustment screws are located just behind the laser source. Use the supplied allen wrench to make any adjustments. Refer to the figure below and reference your particular model for sighting instructions. For additional information on your model, please refer to the installation guide included.

DO NOT overturn the adjustment screws.

A little adjustment goes a long way. Rarely is more than a quarter turn required to make your needed adjustments.

Start by lining your laser sight up with your fixed sights at a desired distance. Most people sight in their laser at between 20 and 50 ft. However because of the offset between the laser sight and the bore of the barrel, the actual change in point-of-impact at these distances is very small.

## LASERGUARD® LASER SIGHT PLATFORM

Windage		Elevation	
LEFT	Counter Clockwise 	DOWN	Clockwise 
RIGHT	Clockwise 	UP	Counter Clockwise 

Further adjustments can be made at the range to determine where your bullet impacts in relation to your firearms fixed sights. The laser should be moved to the actual impact point of the bullet (Fig. 2).

## TROUBLESHOOTING

Occasionally one of the adjustment screws will turn but not adjust the beam. If this happens, turn the windage and elevation screws counter clockwise until 1-2 threads of the sighting screw are protruding from the housing of the diode. (DO NOT remove the sighting screws from the grip. If sighting screw is removed you will need to send in your grip for repair (if necessary, refer to warranty work instructions at back of manual). Once 1 - 2 threads are visible, lightly tap on the side of the diode housing with your finger to help reset the sighting spring. To finish, turning a 1/4 turn at a time, alternate from windage and elevation to slowly sight in your laser sight to your fixed sights.

**NOTE: The Laserguard® laser sight elevation screw is recessed, therefore the left side of the Laserguard will need to be removed to make the threads of the sight screw visible. Follow instructions above, and reinstall right side of Laserguard prior to realigning your laser sight.**

## MAINTENANCE

Laser sights require minimal attention and are designed to resist most common firearm chemicals and lubricants, however, excessive exposure to these chemicals can be detrimental. To ensure the safe and effective operation of your laser sights:

- Remove Laser Sight before cleaning gun.
- Do not use pressurized or compressed air.

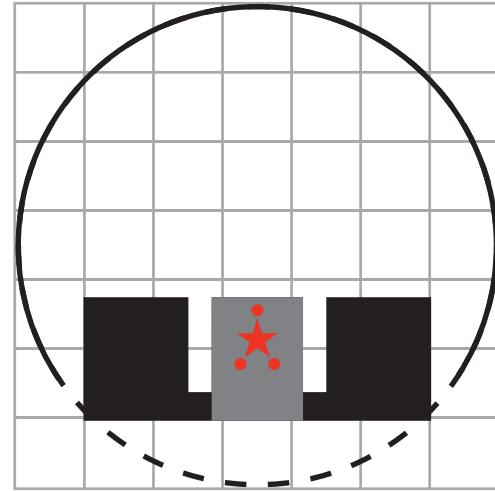


FIG. 1: BEAM LINED UP WITH PROPER SIGHT PICTURE.

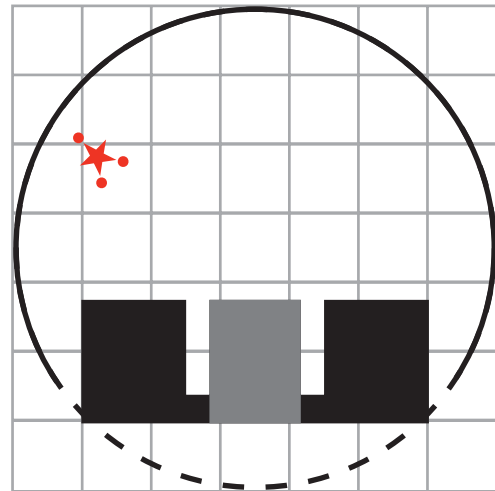


FIG. 2: BEAM MOVED TO LINE UP WITH IMPACT POINT.

- Do not immerse in cleaning fluid or lubricate firearm excessively. A firearm that has too much oil will foul the lens of the laser and result in an unfocused beam. This can be easily cleaned and causes no permanent damage.
- Do not allow cleaning solution to enter lens source.
- Do not allow solvents to contact your grips that contain: VOCs or TCE such as: carb/brake cleaner, acetone, MEK, gasoline. Grip damage will result.
- Crimson Trace® diodes are designed and positioned to minimize exposure. Occasional cleaning of the lens is recommended.

**NOTE: After extensive shooting, you may notice a degradation of beam quality or “beam spread”. This is the result of fouling on the lens surface. This is normal and can be easily cleaned with the included cleaning swabs or a small cotton swab dipped in isopropyl alcohol or window cleaner. Dry the lens with a clean dry swab. When cleaning the lens do not touch lens with any sharp objects.**

## BATTERY GUIDELINES & REPLACEMENT


Our batteries typically provide four (4) hours for red laser, two (2) hours for green laser of illumination under normal conditions. If the laser becomes dim or fades, simply replace the batteries. Keep battery compartment free of dirt or other contaminants. Debris inside the battery compartment may affect laser operation and performance.

Crimson Trace® products use commonly available batteries.

## BATTERY WARNINGS

If a battery-operated accessory or attachment (i.e., laser, optical sight, or flash light, etc.) is supplied or used with a firearm, the following warnings and instructions must be adhered to:

 **WARNING: KEEP BATTERIES AWAY FROM CHILDREN. THERE IS A CHEMICAL BURN HAZARD ASSOCIATED WITH BATTERIES.**

 **WARNING: IF A NEW OR USED LITHIUM BUTTON/COIN CELL BATTERY IS SWALLOWED OR ENTERS THE BODY, IT CAN CAUSE SEVERE INTERNAL BURNS AND CAN LEAD TO DEATH IN AS LITTLE AS 2 HOURS. ALWAYS COMPLETELY SECURE THE BATTERY COMPARTMENT. IF THE BATTERY COMPARTMENT DOES NOT CLOSE SECURELY, STOP USING THE PRODUCT, REMOVE THE BATTERIES, AND KEEP IT AWAY FROM CHILDREN. IF YOU THINK BATTERIES MIGHT HAVE BEEN SWALLOWED OR PLACED INSIDE ANY PART OF THE BODY, SEEK IMMEDIATE MEDICAL ATTENTION.**

- When used correctly, batteries provide a safe and dependable source of portable power. However, misuse or abuse may result in leakage, fire, or explosion.
- Batteries can explode or leak and cause burns if installed backwards, disassembled, charged, or exposed to water, fire or high temperature.
- Always take care to install your batteries correctly observing the “+” and “-” marks on the battery and the device.
- Always replace the whole set of batteries at one time, taking care not to mix old and new batteries, or batteries of different types.
- Store unused batteries in their original packaging and away from metal objects that may short-circuit them.
- Remove discharged batteries from equipment promptly to avoid possible damage from leakage.
- Never dispose of batteries in fire. (Failure to observe this precaution may result in an explosion.)
- The batteries are supplied in a charged state, and are not designed for recharging. Recharging may cause leakage, fire, or explosion.
- The batteries should be disposed of properly, including keeping them away from children.
- Dispose of used batteries immediately. Even used batteries can cause injury.