

## OPERATING INSTRUCTIONS FOR STREAMLIGHT TLR-1® / TLR-2® SERIES

Thank you for selecting the TLR-1®, TLR-1 HL®, TLR-1® HP, TLR-1 HPL®, TLR-2®, TLR-2® G, TLR-2 HL®, or TLR-2 HL® G weapon-mounted tactical flashlight. As with any professional tool, reasonable care and maintenance of this product will provide years of dependable service. Please read this manual before using your TLR.

SAVE THESE INSTRUCTIONS. This guide contains important safety and operating instructions for your TLR.


**⚠ WARNING** HANDLING A FIREARM CAN BE DANGEROUS AND MAY RESULT IN SERIOUS INJURY, DAMAGE TO PROPERTY, OR DEATH. FOLLOW BOTH THE FLASHLIGHT AND THE FIREARM MANUFACTURER'S SAFETY / OPERATING INSTRUCTIONS. NEVER HANDLE A FIREARM UNLESS YOU HAVE RECEIVED QUALIFIED TRAINING. SAFETY MEASURES MUST BE EMPLOYED AT ALL TIMES. NEVER POINT THE FIREARM AT SOMETHING YOU DO NOT INTEND TO SHOOT.

**⚠ WARNING** ACCIDENTAL DISCHARGE OF A FIREARM MAY RESULT IN SERIOUS INJURY, DAMAGE TO PROPERTY, OR DEATH. MAKE SURE THAT THE FIREARM IS UNLOADED AND THE BREECH IS OPEN WHEN INSTALLING, CLEANING, ADJUSTING AIM, MAINTAINING, OR REMOVING THE FLASHLIGHT. ONLY ACTIVATE THE FLASHLIGHT WITH THE NON-TRIGGER HAND WHILE EMPLOYING A TWO-HAND GRIP ON THE FIREARM AND WITH THE TRIGGER FINGER OUTSIDE OF THE TRIGGER GUARD.


**⚠ WARNING** RISK OF INJURY. THE USE OF SUBSTANDARD OR AFTERMARKET COMPONENTS, MODIFICATIONS TO THE ORIGINAL PARTS, OR USE OF THIS FLASHLIGHT WITH ANY INCOMPATIBLE PRODUCT MAY VOID WARRANTY AND COULD LEAD TO PRODUCT FAILURE OR PERSONAL INJURY.

**⚠ CAUTION** LED RADIATION (RG-2). DO NOT STARE INTO BEAM. MAY BE HARMFUL TO EYES. PER IEC 62471 Ed 1.0:2006-07.

**LASER (TLR-2® series only)**

AVOID EXPOSURE; LASER RADIATION	▲ IS EMITTED FROM THIS APERTURE.
 <div> <p>CAUTION - LASER/LED RADIATION</p> <ul style="list-style-type: none"> <li>- CLASS 3R LASER PRODUCT</li> <li>- AVOID DIRECT EYE EXPOSURE</li> <li>- MAX. OUTPUT: &lt;5 mW</li> <li>- WAVELENGTH: 650 - 660 nm</li> <li>- LED RADIATION (RG-2):</li> <li>- DO NOT STARE INTO BEAM.</li> <li>- MAY BE HARMFUL TO EYES.</li> </ul> </div>	
COMPLIES WITH 21 CFR 1040.10 AND 1040.11 AS AMENDED BY LASER NOTICE 56, 08 MAY 2019	
LASER/LIGHT	LIGHT LASER

**(TLR-2® G series only)**

AVOID EXPOSURE; LASER RADIATION	▲ IS EMITTED FROM THIS APERTURE.
 <div> <p>CAUTION - LASER/LED RADIATION</p> <ul style="list-style-type: none"> <li>- CLASS 3R LASER PRODUCT</li> <li>- AVOID DIRECT EYE EXPOSURE</li> <li>- MAX. OUTPUT: &lt;5 mW</li> <li>- WAVELENGTH: 510 - 530 nm</li> <li>- LED RADIATION (RG-2):</li> <li>- DO NOT STARE INTO BEAM.</li> <li>- MAY BE HARMFUL TO EYES.</li> </ul> </div>	
COMPLIES WITH 21 CFR 1040.10 AND 1040.11 AS AMENDED BY LASER NOTICE 56, 08 MAY 2019	
LASER/LIGHT	LIGHT LASER

**⚠ CAUTION** STROBE MODE MAY CAUSE SEIZURES IN PERSONS WITH PHOTSENSITIVE EPILEPSY.

**⚠ CAUTION** The TLR series provides a powerful beam. When operated for a long time, it will get uncomfortably warm. This is NORMAL and is not a defect. Any LED flashlight of similar size and performance will produce similar amounts of heat during operation. The only way to reduce operating heat is to SIGNIFICANTLY lower the output or increase the size of the flashlight. While this heating may trigger the drop reflex if an unattended hot light is picked up, the temperature does not present a burn hazard. When used tactically for short periods of time to clear a room, check for intruders, etc., heating will not be a problem.

### BATTERY SAFETY

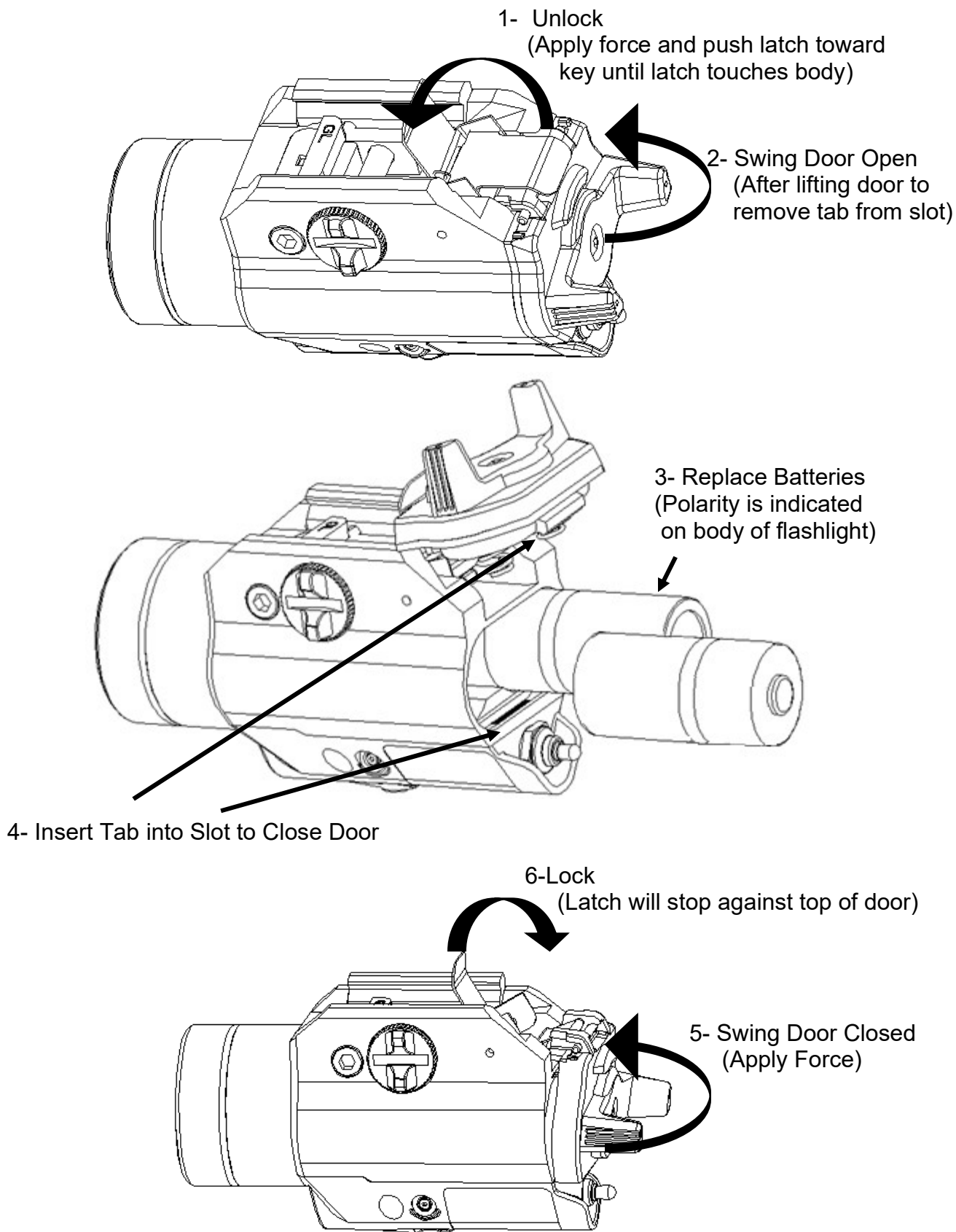
**⚠ CAUTION** EXPLOSION RISK, BURN, AND FIRE HAZARD. DO NOT DISASSEMBLE, CRUSH, SHORT CIRCUIT, HEAT ABOVE 212°F (100°C), OR DISCARD IN FIRE. DO NOT MIX BATTERIES OF DIFFERENT BRANDS OR OLD WITH NEW BATTERIES. DO NOT RECHARGE CR123A. USE ONLY WITH THE SPECIFIED STREAMLIGHT PRODUCTS. KEEP AWAY FROM CHILDREN. BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.

## BATTERY INSTALLATION/ REMOVAL

(TLR-2® Shown)

**⚠ WARNING** HANDLING A FIREARM CAN BE DANGEROUS AND MAY RESULT IN SERIOUS INJURY, DAMAGE TO PROPERTY, OR DEATH. MAKE SURE THAT THE FIREARM IS UNLOADED AND THE BREECH IS OPEN. IT IS IMPERATIVE THAT SAFETY MEASURES BE EMPLOYED AT ALL TIMES WHILE HANDLING THE FIREARM.

THE TLR MUST BE REMOVED FROM THE FIREARM BEFORE THE BATTERY COMPARTMENT CAN BE OPENED OR CLOSED.



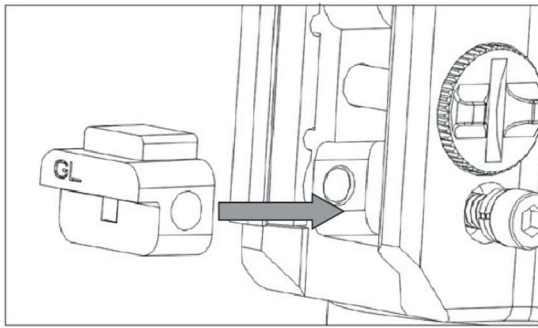
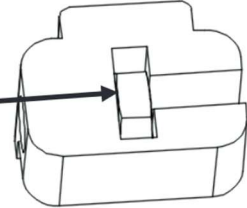
## Rail Keys

Four polymer rail keys (included) allow the TLR to be attached to a variety of firearms: GL -Glock or "universal" rails; 1913 – Mil Std-1913 (Picatinny); SW - TSW & 99, and Beretta - 90two.



Each rail key is stamped for easy identification and the keys share a common key screw and hex nut. Each key has a hex nut cavity in the base.

Hex Nut Cavity

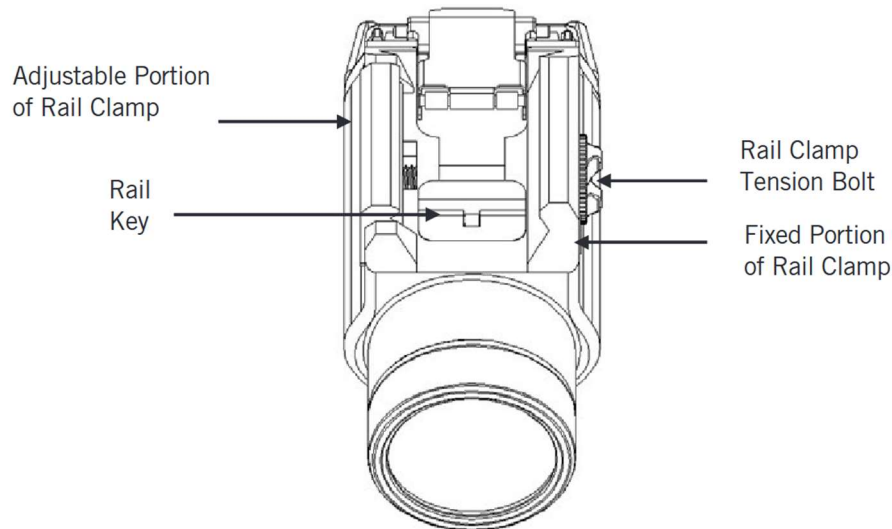


1. Select the appropriate key and insert a hex nut into the cavity in the base of the key.  
Note: Adjust the hex nut so no portion protrudes from the key.
2. Hold the rail key (hex nut side up) and the TLR (key pocket side down) and align the two.
3. Insert the key into the TLR key pocket and use a 7/64" hex wrench to secure it with the key screw.

**NOTE: A key MUST be used or the TLR will slide off the front of the rail under recoil.**

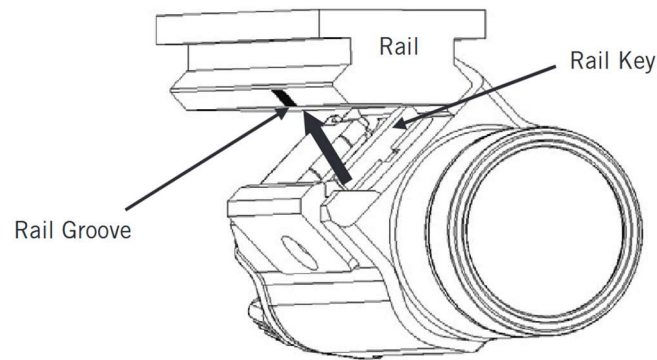
## MOUNTING

**⚠ WARNING** HANDLING A FIREARM CAN BE DANGEROUS AND MAY RESULT IN SERIOUS INJURY, DAMAGE TO PROPERTY, OR DEATH. MAKE SURE THAT THE FIREARM IS UNLOADED AND THE BREECH IS OPEN. IT IS IMPERATIVE THAT SAFETY MEASURES BE EMPLOYED AT ALL TIMES WHILE HANDLING THE FIREARM.



1. The TLR is designed to be quickly attached or detached from the side of the weapon or accessory rail.
2. Loosen the rail clamp tension bolt.

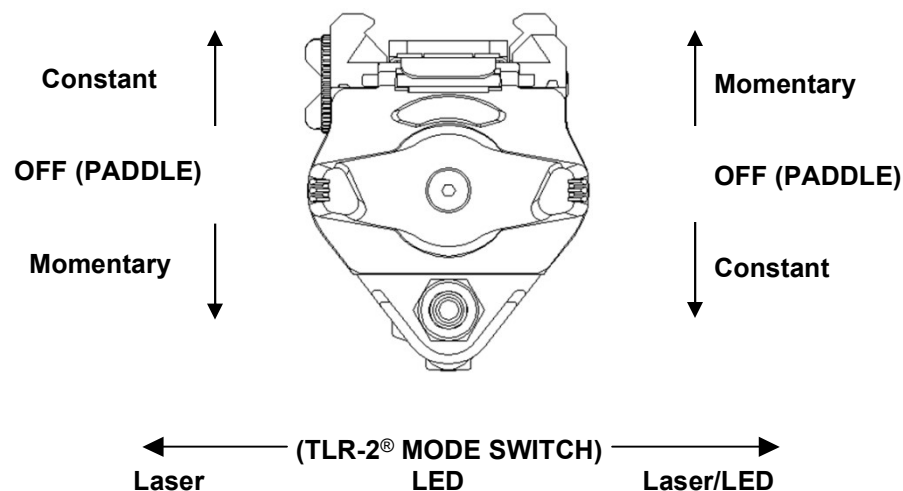
3. Angle the TLR, placing the fixed portion of the rail clamp against the accessory rail and align the rail key with the appropriate cross groove in the accessory rail.
4. Depress the tension bolt to open the rail clamp, rotate the TLR into place and release the pressure on the tension bolt to "snap" the light in place.



5. Check for fit and tighten tension bolt until the TLR is securely attached to the firearm.  
A coin should be used to obtain sufficient tightness

### GENERAL OPERATION (TLR-2® Shown)

The TLR features a paddle switch providing momentary or constant activation.  
The TLR-2® series has an additional mode selection switch located on the rear of the laser housing.



### Strobe Operation

The TLR features a strobe mode that can be activated by the paddle switch. Within 0.4 seconds, press the paddle switch into the momentary position, release and immediately re-press and hold for strobe.

### Strobe Enable/Disable

The TLR ships from the factory with the strobe mode enabled.

The light can be reprogrammed to disable strobe by tapping the momentary paddle switch very rapidly ten times and holding it down on the tenth time. Hold until the light turns off (about one second) which indicates reprogramming was successful. Repeat the procedure above to re-enable the strobe mode.

Note: Activation of the strobe function is NOT recommended with the remote switch.

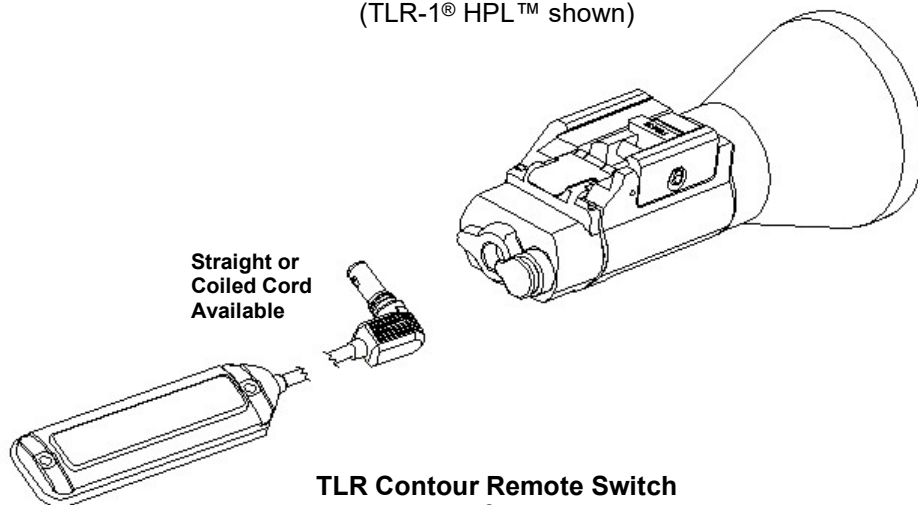
## TLR-2® Models Laser Sight Zeroing

For a laser mounted below or to the side of the bore, there is only one distance where the bullet path will coincide with the laser sight line. This point is the "zero range." Laser adjustment and the muzzle velocity of the bullet determine where this point occurs. The user must decide how high above or below the sight line the bullet can be allowed to strike and adjust the sight accordingly. At distances less than the zero range the bullet will be above the sight line. Beyond the zero range the bullet will be below the sight line. If mounted to the side, the bullet will also deviate to the side of the laser line, as well as up and down. In practice, a TLR-2® model on a handgun can be adjusted to keep the bullet strike within about 2" high and 2" low out to about 100 feet. There are two adjustment screws located on the laser cartridge housing (for the TLR-2® G on the side body and housing). The windage adjustment is located on the left hand side of the laser cartridge. Turn the set screw clockwise to move the laser to the left (POI right). Turn the set screw counter-clockwise to move the laser to the right (POI left). The elevation adjustment is located on the underside of the TLR-2® model laser cartridge. With the TLR-2® model pointed down range a clockwise turn of the adjustment screw will move the laser down (POI up). A counter-clockwise turn on the adjustment screw will move the laser up (POI down). Move the laser dot in the direction that the shots are hitting the target (example: If the bullets are striking low and right, move the laser dot down and right to coincide with the bullet strike).

**NOTE:** When making large adjustments there may be an interaction that causes the laser to move diagonally or bind. It may become necessary to rotate the opposing adjustment screw counterclockwise to allow the laser cartridge to move to the desired position.

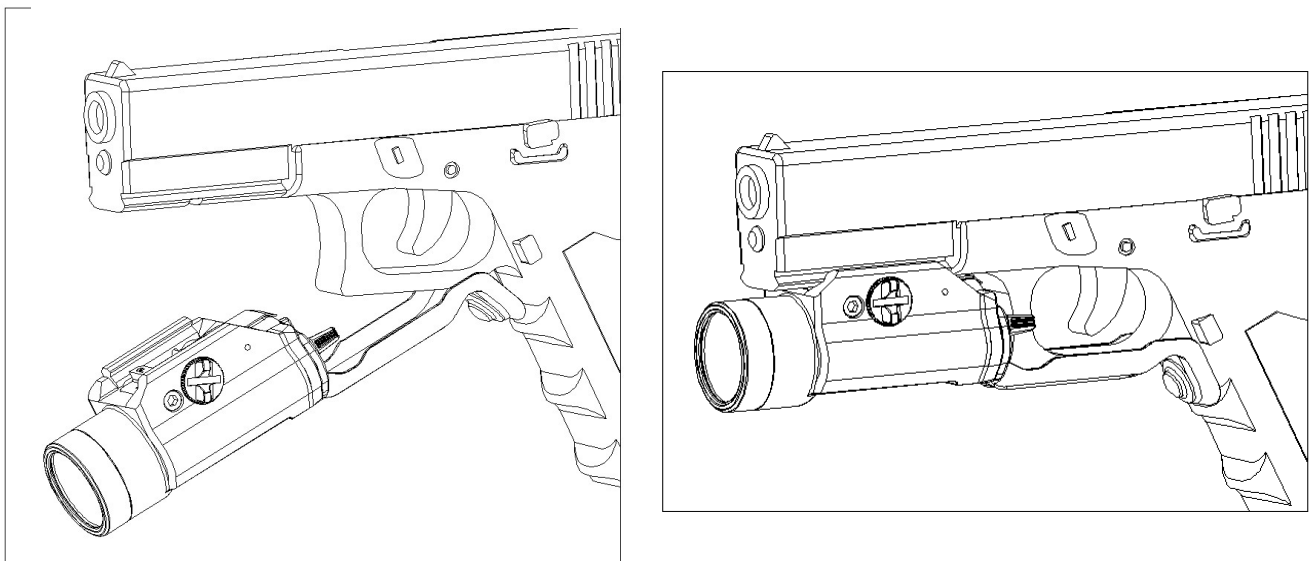
## Accessories

### TLR Remote Switch (TLR-1® HPL™ shown)



### TLR Contour Remote Switch (TLR-1® Shown)

(Contour remote not recommended for use with the TLR-2® G)



## MAINTENANCE

The TLR rail clamp tensioning bolt requires an application of high quality gun oil to keep it rust free. Use a soft cloth and mild detergent to clean the glass LED lens and keep it free of dirt and grime. The laser aperture on the TLR-2® models can be cleaned with a Q-tip (or similar item) and mild detergent.

### **NOTICE**

Always avoid aggressive cleaning solutions as they may damage the TLR.

## PRODUCT USE

Streamlight flashlights are intended for use as high intensity, heavy duty, and portable light sources. Use of Streamlight flashlights for any purpose other than as light sources is specifically discouraged by the manufacturer. Streamlight specifically disclaims liability for other than recommended use.

### **NOTICE**

Be sure to use only genuine Streamlight replacement parts to ensure product safety. Substitution may invalidate the product approval. Do not try to repair the unit yourself. Send to a qualified service facility or return it to the factory.

## Streamlight Limited Lifetime Warranty

Streamlight warrants this product to be free of defects for a lifetime of use except for batteries and bulbs, abuse, and normal wear. We will repair, replace, or refund the purchase price of this product should we determine it to be defective. This limited lifetime warranty also excludes rechargeable batteries, chargers, switches and electronics which have a 2 year warranty with proof of purchase.

**THIS IS THE ONLY WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARE EXPRESSLY DISCLAIMED EXCEPT WHERE SUCH LIMITATION IS PROHIBITED BY LAW.** You may have other specific legal rights which vary by jurisdiction.

Go to [www.streamlight.com/support](http://www.streamlight.com/support) for a complete copy of the warranty. To register your product, go to [www.streamlight.com](http://www.streamlight.com) (Online Product Registration). Retain your receipt or any proof of purchase.

## SERVICE OPTIONS

The TLR models contain few user-serviceable parts.

For service options, go to [www.streamlight.com/support/service](http://www.streamlight.com/support/service) and complete the Online Service Request for factory service or to find the location of an authorized Streamlight repair center near you.

### **Or contact:**

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