



U n l e a s h T h e G l o w



NEW GEN

U n l e a s h T h e G l o w

**OWNER'S
MANUAL**

LT-TLP28

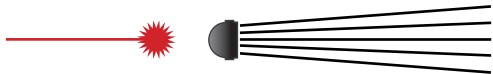
Xenon Flashlight & Red Laser Combo

LT-ELP223

LED Flashlight



CAUTION!



If you need to mount the Flashlight & Laser Combo onto a firearm, make sure firearm is not loaded before installation. Remove magazine and examine chamber. Use safe handling procedures at all times.

Always use safe handling procedures at all times. Do not operate the laser if the unit is defective or the cover or seal is damaged.

Avoid direct eye exposure to laser beam or bright reflection as this may cause eye injury.

Do not direct laser beam toward any aircraft, public transportation or other objects with safety concerns. This is very dangerous and may be considered a felony.

Do not direct laser beam toward any person or animal. Direct eye contact with beam or bright reflection may cause eye injury.

The flashlights produce substantial heat during operation. Do not leave activated flashlight unattended. Do not set activated flashlight face down. Do not place activated flashlight against combustible material or material that could be damaged by heat. Do not hold bezel or lens of activated flashlight against any portion of human body. Keep away from children.

Ensure that the flashlight and laser cannot be turned on when stored or being transported. If the lamp is activated while in a case or any container, the lamp could overheat and cause damage to surrounding materials.

Do not touch a hot lamp assembly of the flashlight. Allow it to cool before handling. Avoid touching reflector surface of the flashlight. Always wear safety glasses when handling.

Make sure to turn off the flashlight or disconnect the pressure switch before inspecting bulb and battery if the light cannot be turned on.

Examine battery quality and appearance before use each time and make sure that there is no leaking or any deformation. Dispose appropriately if there is a problem.

The batteries are pre-charged by the manufacturer, and cannot be recharged. Recharging can cause battery leakage or, in some cases, high-pressure rupture. Inadvertent charging can occur if a battery is installed backwards.

Install batteries by aligning the + and – signs marked on the battery with the + and – signs marked on the battery chamber in the light.

Turn off the light/laser and remove batteries from flashlight/laser after use. Leaving battery in without use for long period of time may cause damage or danger. Keep batteries cool and dry.



CAUTION! (continued)

Never use non-rechargeable and rechargeable batteries together in the system. Always replace batteries with the exact type and size specified for the system.

Always replace the whole set of batteries at the same time. Never mix new and used batteries in the system.

Never deliberately short circuit batteries. Prolonged short circuit will cause the battery to lose energy and result in significant temperature increase.

Do not carry the Flashlight and Laser Combo with batteries installed in the car trunk while driving.

Keep battery compartment clean and keep any metallic object away from the battery.

Lithium batteries can explode or cause burns if disassembled, shorted, recharged, exposed to water, fire, or high temperatures. Do not place loose batteries in a pocket, purse, or other container containing metal objects. Do not mix new with used batteries or mix required batteries with other types of battery. Do not store batteries with hazardous or combustible materials. Store in cool, dry, ventilated area. Follow applicable laws and regulations for disposal.



Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

LT-TLP28		
Common Specification	Length	3.58" (91mm)
	Weight with Batteries	6.3oz (179g)
	Battery/Qty	CR123A X 2 (6V)
	Pressure Switch	Optional
	Mount/Ring	Integral Mounting Deck
	Battery Operating Time	70mins
Flashlight Specification	Bulb Type	23mm Xenon IRB*
	Voltage	6V
	Max. Output	126 lumens
	Focus	Preset
Laser Specification	Control & Adjustment	TS & 4 Points
	Beam Movement	31.5"@11yds
	Type	Class 3R
	Output Power	2.5~3.1mW
	Wavelength	630~640nm
	Beam Diameter	0.6~0.8"@16yds, 75-79°F
	Operating Temperature	14~113°F (-10~45°C)
	Range	500m
	Life Time	6000hrs
Laser Beam Divergence Value	<2mRad	

The Laser Products are designated as Class 3R during all procedures of operation.

LT-ELP223		
Specification	Bulb Type	23mm LED IRB*
	Voltage	6V
	Max. Output	150 lumens
	Battery Operating Time	2hrs+
	Weight with Batteries	4.9oz
	Main Body Diameter	N/A
	Length	3.39"
	Battery/Qty	CR123A X 2
	Mount/Ring	Integral Mounting Deck
	Focus	Preset

*IRB - Integrated Reflector and Bulb

Component Illustration



LT-ELP223



The purpose of this diagram is to provide a better understanding of the structure of the Flashlight (and Laser) System. Please do NOT disassemble the product which will void its warranty.

*IRB - Integrated Reflector and Bulb

Installation & Operation

Battery Installation (LT-TLP28, LT-ELP223)

1. Press down the Tail Cap Locking Lever, and pull the Tail Cap to open (Fig. 1.1).
2. Insert two 3-volt lithium batteries. Press down the Locking Lever and push Tail Cap toward the Main Body until Locking Lever is securely engaged into position (Fig. 1.2).

Rotary Functional Switch Operations (LT-TLP28 only)

Gently rotate the Functional Switch to select one of the three functions, flashlight only, laser only, or both laser and flashlight (Fig. 2.1).

On/Off Power Switch (LT-TLP28 only)

Press down and release the Power Switch to turn on/off the power (Fig. 3.1).

Three Different On/Off Operations

Note: Make sure the Power Switch is on.

1. Tail Cap Ambidextrous On/Off Switch (LT-TLP28, LT-ELP223)

The laser/flashlight can be turned on permanently by pushing the Ambidextrous On/Off Switch upward, and can be turned off by setting the Ambidextrous On/Off Switch in the middle (Fig. 4.1). The ambidextrous design makes it convenient for either right-handed or left-handed users.



Fig. 1.1



Fig. 1.2 Battery Storage



Fig. 2.1



Fig. 3.1 Power Switch

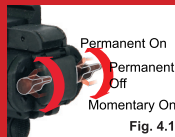


Fig. 4.1



Fig. 4.2



Fig. 4.3



Fig. 5.1

2. Momentary On/Off Switch (LT-TLP28, LT-ELP223)

The laser/flashlight can be temporarily turned on by pushing down the Ambidextrous On/Off Switch (Fig. 4.1).

3. Optional Pressure Switch (TL-PSTL28A) Operation (LT-TLP28 only)

The laser/flashlight can be turned on/off by pressing/releasing the pressure switch after it is installed. Make sure the Ambidextrous On/Off Switch stays at the Permanent "ON" position. Otherwise, the Pressure Switch will not turn on the light or laser.

To Install Optional Pressure Switch (LT-TLP28 only)

Unscrew the Power Switch and replace with the threaded end of the Pressure Switch (Fig. 4.2).

Note: Make sure the Ambidextrous On/Off Switch is still at the Permanent "ON" position for the Pressure Switch to work properly (Fig. 4.3).

Installation (LT-TLP28, LT-ELP223)

Use the Allen wrench to loosen the two hex screws on the locking plate (Fig. 5.1).

Clamp the Mounting Deck on the rail underneath the firearm barrel. Tighten the hex screws.



Do not over tighten the screws as you could cause damage to the flashlight body.

Windage/Elevation Adjustment (LT-TLP28 Only)

Windage Adjustment:
To move the laser beam left/right

















Fig. 6.1

Elevation Adjustment:
To move the laser beam upward/downward

1. Once the Flashlight/Laser Combo is mounted in position, the Adjustment Screw on the bottom of the Laser becomes the Elevation Adjustment Screw, and the Adjustment Screw on the side of the Laser becomes the Windage Adjustment Screw.
2. Stabilize the firearm to minimize any unexpected movement. Fire a test shot. If the impact point of the bullet is exactly in the center of the target, then the Laser Sight is zeroed. Otherwise, it needs to be adjusted based on the bullet impact. To move the laser beam upward/downward, use Allen wrench to rotate the Elevation Adjustment Screw. To move the laser beam left/right, rotate the Windage Adjustment Screw.
3. Keep test firing and adjusting until achieving zero.

NOTE: To optimize the Windage/Elevation Adjustment function, the positions of the W/E Adjustment Screws on each laser unit were pre-set on factory equipment. The Windage Adjustment Screw could be on either side of the unit, thus may appear different from the example illustration in Fig. 6.1. **PLEASE DO NOT ROTATE THE LASER HEAD.** To use the W/E function, refer to the 'IMPACT POINT MOVEMENT INSTRUCTION' table and follow the W/E adjustment instructions on Page 10.

IMPACT POINT MOVEMENT INSTRUCTION		Adjustment Screw Positions (From Rear of Laser)	
			
W/E Adjustment		Bullet Impact Point Movement	
Windage			
			
Elevation			
			

Replacement Parts

Contact your flashlight distributor for the following replacement parts:

				
	BAT-LIT870	BLB-TLP08A	IRB-EL023	TL-PSTL28A
	2PC Set of CR123A Lithium Batteries	23mm Xenon IRB*	23mm LED IRB*	Optional Pressure Switch
LT-TLP28	*	*		*
LT-ELP223	*		*	

IRB* Replacement

(LT-TLP28, LT-ELP223)



1. Make sure there is no battery in the light. Unscrew the Front Head Cap counterclockwise to expose the IRB*.
2. Pull out IRB* from the Flashlight Head.
3. Follow the above steps in reverse order to install a new IRB*.

*IRB - Integrated Reflector and Bulb



Make sure the flashlight is totally cool down before replacing right bulb.

Maintenance

1. Maintain the metal surface of the Flashlight and Laser Combo by removing any dirt or sand with a soft brush to avoid scratching the finish.
2. Store the system in a cool dry place when not in use. Be careful to avoid contact with acid, alkaline or corrosive chemicals.
3. Take the battery out. This insures good working batteries for your system and prevents battery leakage.
4. Keep a fresh package of batteries next to your laser. This gives you back-up power for your system.
5. Do not store your system in high temperatures. This would damage your laser sight and may result in battery leakage.
6. Do not put the flashlight head against any surface especially paper or human skin for it has heat and may result in accidents.
7. Do not leave your system under the seat in your car, or in direct sunlight to avoid over-heating.
8. Make sure that power is at off position before storing it away.
9. Do not attempt to lubricate any part of the system.
10. Do not disassemble the system other than replacing light bulb or pressure switch. Do not loosen or remove screws or parts. Any such or similar actions will void the warranty.
11. For laser products, service is only to be handled by authorized factory trained technicians. There is no product service or user serviceable parts allowed by the customer.

One Year Limited Warranty

This warranty covers defects in materials and workmanship of the product, provided that they are purchased from an authorized distributor and purchased and used in the United States. The warranty lasts for a period of one year from the date of original purchase of the product.

You are entitled to rights under this warranty only if you are the original purchaser of the product and have the original purchase receipt. This warranty is not transferable. We will at our option, repair or replace products that do not conform to this warranty. We may use functionally equivalent reconditioned, refurbished, remanufactured, pre-owned or new products or parts.

This warranty is void if:

- the product has been disassembled, tampered with or parts or screws have been removed or loosened; or
- the product has been abused, maliciously damaged, mistreated or used for a purpose contrary to the purpose for which it was designed or the instructions provided with the product.

For Warranty service, please contact your authorized distributor and provide them with a written description of the defect and your original purchase receipt. You must obtain a Return Authorization Number and return procedures with delivery destination before returning the product for repair or replacement. For further warranty service information, contact: Customer Service Department, Leapers[®], Inc., 32700 Capitol Street, Livonia, MI 48150; (734) 542-1500.

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