

TECHNICAL MANUAL
FOR
BLAST 2 (Bright Light Aiming System Tactical 2)

For Rifles and Pistols Equipped with
MIL-SPEC-1913 and Picatinny Rails



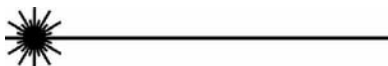
LASER DEVICES
INC.

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SAFETY SUMMARY

DANGER

**LASER RADIATION
AVOID DIRECT EXPOSURE TO THE BEAM**



LASER WAVELENGTH: 632 - 650Nm

WARNING

When activated, the aiming laser for the BLAST 2 emits laser light that has been determined to pose a risk of eye injury. In order to avoid the possibility of eye injuries resulting from direct viewing, please adhere to the following warnings:

- DO NOT stare into the laser beam.
- DO NOT look into the laser beam through binoculars or telescopes.
- DO NOT point the laser beam at mirror-like surfaces.
- DO NOT shine the laser beam into other individual's eyes.

SAFETY SUMMARY, continued



BLAST 2 uses a high pressure Xenon lamp or a high intensity LED illuminator that will produce a considerable amount of light and heat. Please observe the following precautions when operating the BLAST 2:

Never set an operating BLAST 2 face down on a table or flat surface—it can create a fire hazard.

Operate the BLAST 2 tactical light for fairly short periods of time.

Turn off the light if it becomes too hot to hold comfortably in your hands.

Lithium batteries may pose a fire and/or burn hazard if they overheat.

Do not expose lithium batteries to water or dispose of by burning.

Do not disassemble batteries, attempt to recharge or mix a lithium battery with other battery types.

Improperly handled batteries may leak, explode or cause personal injury.

SAFETY SUMMARY, continued

THE COMMANDMENTS OF FIREARMS SAFETY

ALWAYS keep the firearm pointed in a safe direction.

ALWAYS keep your finger off of the trigger until ready to shoot.

ALWAYS keep the firearm unloaded until ready to use.

ALWAYS be sure the firearm is safe to operate and the barrel is clear of any obstruction.

ALWAYS use the proper factory made ammunition recommended your firearm.

ALWAYS know your target and what is beyond it.

ALWAYS wear eye and ear protection when shooting.

ALWAYS store your firearm and ammunition in separate locked containers so that they are secure and not accessible to children or unauthorized persons.

ALWAYS treat every firearm as if it were loaded.

NEVER use alcohol or drugs while handling a firearm.

NEVER bring a loaded firearm into a building.

NEVER transport a loaded firearm.

GENERAL INFORMATION

Please read these handling and safety instructions as well as the instructions for your weapon before attempting to install or use this laser aiming device. In addition, please observe all laws in your area relating to the use of firearms and laser aiming devices. Failure to properly install this device may result in damage to your firearm.

BLAST 2 can be mounted on a variety of pistols equipped with accessory rails and rifles equipped with a MIL-SPEC-1913 rail.

LOCATION OF MAJOR PARTS

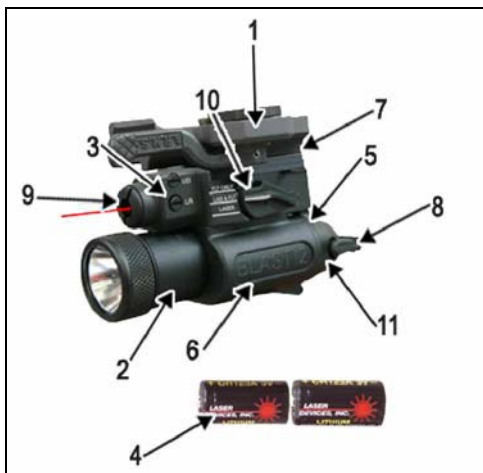


Figure 1 BLAST 2 with A.R.M.S. Throw Lever Mount

1. A.R.M.S. Throw Lever Mount
2. Flashlight Head Assembly
3. Windage & Elevation Adjustment Screws
4. Battery (two, 3-volt lithium)
5. Battery Compartment Door Latch
6. BLAST 2 Housing
7. Quick Release Mounting Bracket
8. Activation Switch Lever
9. Laser Front Cap
10. Laser/Flashlight Selector Switch

LOCATION OF MAJOR PARTS

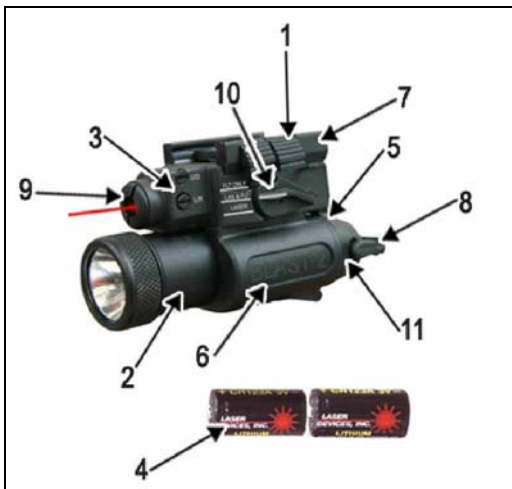


Figure 2 BLAST 2 with Slide On MIL-SPEC-1913 Mount

1. Quick Release Tab
2. Flashlight Head Assembly
3. Windage & Elevation Adjustment Screws
4. Battery (two, 3-volt lithium)
5. Battery Compartment Door Latch
6. BLAST 2 Housing
7. Quick Release Mounting Bracket
8. Activation Switch Lever
9. Laser Front Cap
10. Laser/Flashlight Selector Switch
11. Rear Switch Housing

INSTALLATION OF BLAST 2 EQUIPPED WITH SLIDE ON MIL-SPEC-1913 MOUNT

WARNING

Be sure the weapon is **CLEAR** and on **SAFE** before proceeding.

NOTE

This mounting bracket is used on pistols and rifles that have a MIL-SPEC-1913 rail that can be accessed from the front of the weapon.

Slide the BLAST 2 housing onto the accessory rail until the quick release tab engages the rail on the weapon. See Figure 3.



Figure 3

INSTALLATION OF BLAST 2 EQUIPPED WITH SLIDE ON MIL-SPEC-1913 MOUNT, continued

Make sure that the BLAST 2 slides all the way back on the rail. If necessary, pull down on the quick release tab on each side of the BLAST 2 housing as you slide the unit onto the rail. See Figure 4.

Push forward on the BLAST 2 to make sure it is locked in place.



Figure 4

INSTALLATION OF BLAST 2 EQUIPPED WITH AN A.R.M.S. THROW LEVER MOUNT

NOTE

BLAST 2 with A.R.M.S. Throw Lever Mount will attach to all MIL-SPEC-1913 rails.

The BLAST 2 may be mounted on the LEFT, RIGHT or BOTTOM rail using the A.R.M.S. Throw Lever Mount. See Figure 5.

Open the A.R.M.S. Throw Lever Mount so that it is perpendicular to the BLAST 2 housing. See Figure 6.

Place the rail buffer against the left side of the MIL-STD-1913 rail and align the crossbar on the bottom of the mount with a slot on the rail. Push forward on the BLAST 2 so that the crossbar contacts the front of the slot on the MIL-STD-1913 rail. Move the throw lever arm so that it is parallel with the body of the laser housing. See Figure 7.



Figure 5

**INSTALLATION OF BLAST 2 EQUIPPED WITH AN A.R.M.S.
THROW LEVER MOUNT, continued**



Figure 6



Figure 7

LAMP REPLACEMENT

WARNING

Be sure the weapon is CLEAR and on SAFE before proceeding.

Make sure that the switch is in the OFF position to prevent damage to the contact spring on the lamp assembly. Be careful not to cross-thread the light module as it may permanently damage the housing.

The BLAST 2 Xenon lamp will need to be replaced from time to time. Always keep a spare lamp assembly on hand and replace as follows:

Turn the Activation Switch Lever to the OFF position then remove the BLAST 2 from your weapon.

Unscrew the light head in a counter-clockwise direction and remove the lamp. See Figure 8.



Figure 8

LAMP REPLACEMENT, continued

Install the replacement lamp. Be careful not to touch the glass bulb with your fingers. See Figure 9. If you accidentally touch the glass bulb, use an oil free cloth and rubbing alcohol to clean the bulb.

Reinstall the tactical light head onto the BLAST 2 housing.



Figure 9

ADJUSTING THE WINDAGE & ELEVATION

The BLAST 2 laser is pre-aligned by the manufacturer for use at twenty-five feet. To precisely align the laser to your weapon or to change the alignment for use at other distances, follow the steps below:

Mount the BLAST 2 on the weapon.

Using a sandbag or other steady rest, activate the laser and aim the weapon at the target. Place the laser point on the center of the target and carefully fire three rounds from the weapon then check the target for their impact point.

If the bullet holes are clustered to one side or the other, you will need to adjust the windage. If the bullet holes are grouped above or below the target, you will need to adjust the elevation. See Figure 10.

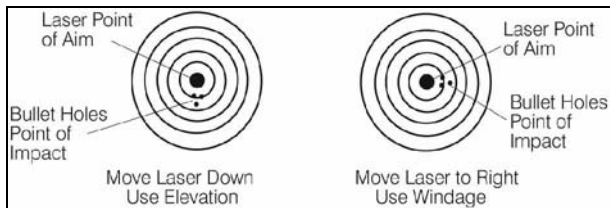


Figure 10

ADJUSTING THE WINDAGE & ELEVATION, continued

WARNING

Unload your firearm before adjusting the windage and elevation.

NOTE

Adjust the windage or elevation screws using the supplied tool. Turn the screws by no more than a one-quarter (1/4) turn.

Always adjust the laser towards the impact point on the target.

When mounted on a bottom rail, (e.g. on a pistol), turning the windage and elevation screws will move the shot group in the direction indicated in Table 1.



Figure 11

Table 1

ZEROING THE AIMING LASERS	Adjuster Movement	Shot Group Movement
Top Screw Elevation	CW CCW	Up Down
Bottom Screw Windage	CW CCW	Right Left

REPLACING THE BATTERIES

CAUTION

To prevent damage to the battery contact spring, always make sure that the BLAST 2 switch is in the OFF position prior to opening the battery compartment.

The two 3-volt, 123A batteries provide up to 48 hours of laser activation and up to one hour of flashlight illumination. To replace the batteries, follow the steps below:

Confirm that your firearm is unloaded, turn the BLAST 2 off and remove the device from your firearm.

Push down on the battery compartment latch to open the battery compartment. See Figure 12.



Figure 12

REPLACING THE BATTERIES, continued

Remove the used batteries and install two, new 3-volt 123A batteries, as indicated on the inside of the battery compartment door.

Close the battery compartment and press down firmly on the front of the battery compartment door latch until it snaps into place. See Figure 13.

Test the BLAST 2 to confirm proper operation.



Figure 13

TROUBLESHOOTING

If the BLAST 2 fails to operate or appears to operate at low power, check the following prior to contacting the manufacturer for repair.

Fails to Operate: Replace the batteries. Check the battery installation to make sure that the batteries were installed properly.

Laser is Weak or Dim: Check the laser front cap to make sure it is free of dirt or power residue. If the front lens is dirty, gently clean it with a cotton swab or clean cloth moistened with glass cleaner.

Warranty Information

Laser Devices, Inc. will furnish its standard form LIMITED WARRANTY in favor of its customers and the first end users of its products. The terms of the warranty are as follows: All LDI manufactured products (excluding flashlight bulbs, borelight inserts, batteries and other items that are ordinarily consumed during the normal use of the product) have a ONE (1) year limited warranty on parts and workmanship from the date of purchase. The warranty is void if the serial number or the manufacturer's labels affixed to the product have been removed or if the product has been misused, modified, neglected or has been disassembled prior to return to the manufacturer. LDI will repair or replace defective products at its discretion. To the maximum extent permitted by law, LDI's election to repair or replace the device shall constitute the purchaser's sole remedy in the event of a defect. LDI disclaims all other warranties, expressed or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose. Moreover, to the maximum extent permitted by law, LDI on behalf of itself, its suppliers, distributors, dealers and agents disclaims any and all other liability for damages, including without limitation, actual damages, consequential damages and indirect damages, for personal injury, wrongful death, pecuniary loss and any other physical or financial loss arising out of the use or the inability to use any LDI product even if Laser Devices, Inc. has been advised of the possibility of such damages. This limited warranty gives the purchaser specific legal rights which may vary by state and jurisdiction.

NON-Warranty Information

Non-warranty repairs are subject to an evaluation fee. BLAST 2 units that are not covered by the warranty will be tested and evaluated for failure. Customer permission and payment terms will be obtained prior to performing any repairs.

SERVICE AND REPAIR

For service, repair or replacement contact us by sending an email to Sales@laserdevices.com or calling 831-373-0701 or 800-235-2162 (outside CA) and ask to speak with Service Representative (SR).

To assist the SR with determining if the item is repairable, please provide the following information:

1. Serial Number of the defective item
2. Thorough description of the malfunction, defect or damage
3. An explanation as to how the malfunction, defect or damage occurred, if known.

If the SR determines that the BLAST 2 is under warranty or should be returned for repair, a Return Material Authorization (RMA) number will be provided.











When returning the BLAST 2 for service or repair, the following procedures should be followed to prevent any additional damage:

1. Be sure that the BLAST 2 is free of all contaminants such as dirt or any other foreign material.
2. Remove the battery.
3. Package the BLAST 2 securely and return the unit in a suitable shipping container.
4. Mark the package with the RMA number. Ship the fastest, traceable, prepaid means to:

Laser Devices, Inc.

2 Harris Court, Suite A-4
Monterey, CA 93940

ACCESSORIES AND OPTIONS

	DESCRIPTION	PART NO.
	Luxeon LED Flashlight Head	2210157
	Visible Laser Module	221101
	Infrared Laser Module	221102
	6-volt Lamp Assembly	85019
	Pressure Pad Switch End Cover	
	Bianchi Belt and Thigh Holsters	Call
	Nylon Pouch with Storage Pocket	LO0151
	Full-size Xenon Flashlight Head	2210140
	Compact Xenon Flashlight Head	2210150
	Accur-Aim Laser Target	30102
	Daytime Laser Glasses (high efficiency)	30204
	Daytime Laser Glass (standard efficiency)	30302



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