

L56 MSHA Alignment Laser Specifications and Operation Instructions.

Warning

Do Not Direct The Laser Light Into The Eye!

Power: 635 nm, Class IIIa Diode Laser
<5 mw Maximum Output
2 Size "AAA" Alkaline Batteries
Battery Life: 12-15 hours continuous use
Range: >500 ft

MSHA Approval Number: 2G-4022-0 Permissible

Constructed from solid brass with an "O" ring seal, the L56 Mining Alignment Laser is water tight to +1atmosphere. Integral mounting is provided for use with spad or other style support. The Laser Beam is concentric to the outside diameter of the battery compartment. This product is tested for Intrinsic Safety and is MSHA approved for use in Methane/Air mixtures only. When properly maintained, it is MSHA approved for use with 1.5 volt "AAA" Duracell MN2400 or Eveready E92 batteries. Replacement of the batteries must be performed in fresh air **ONLY**. When replacing the batteries, the negative end goes into the laser first. All positive ends must point towards the switch cap. All batteries must be replaced at the same time. Never attempt to reuse batteries. Do not mix batteries of different manufacturers or types.

OPERATION

The laser is shipped with an insulator to prevent the batteries from powering the unit and discharging during shipment and storage. It must be removed from the under the switch cap prior to use. To remove it, unscrew the switch cap completely, remove the cardboard insulator and replace the switch cap. Operation of the laser is simple and straightforward. Two hanging brackets with adjustable tabs are integral on the laser top and are used to suspend the laser from two spads or some other means of sturdy roof support. Bailing wire, chain, rope or other means of suspension can be used to hang the laser and provide a means of adjusting for elevation. This laser has sufficient mass to help prevent it from swaying in entries with high airflow. The end cap is turned in the clockwise direction until the laser is powered. Do not over tighten.

 WARNING:

This product contains one or more chemicals, including lead, known to the State of California to cause cancer and birth defects and other reproductive harm.

Wash hands after handling. 

Turn in the counterclockwise direction to turn the unit off. When the laser fails to power up, the batteries will need to be replaced. To replace the batteries, unscrew the switch cap completely, remove the old batteries and inspect the interior of the battery compartment for signs of dirt, moisture or leakage from the batteries. Correct any problems with acid leakage or case sealing before installing new batteries. Replace the batteries in fresh air **ONLY**. When replacing the batteries, the negative end goes into the laser first. All positive ends must point towards the switch cap. All batteries must be replaced at the same time. Do not attempt to reuse batteries or mix batteries of different manufacturers or types. Other than the batteries, there are no user serviceable parts on the laser. This product is warranted for a period of one year from the date of purchase for manufacturing defects. The manufacturer reserves the right to repair or replace this product if it fails due to manufacturing defects during the warranty period. **Abuse, neglect or disassembly of the laser voids this warranty.** Like any other tool, the service that this product will provide is dependent on the care it receives. Please return it to your nearest Mine Supply Dealer for service and repair.

<u>Model L56 MSHA</u>	L56 Alignment Laser complete with 2 AAA Alkaline Batteries .
<u>Model CL2000</u>	Optional Cylindrical Lens Line Generator Used with L56 Alignment Laser. Projects a 10 foot line from a distance of 100 feet.
<u>Model 10LD</u>	Optional 10 mw Laser Diode System Used with CL2000 Line Generator. Increases Laser Beam Brightness by a factor of 3.
Model AP30	Optional Soft Carrying Case 12" Long, Plush Lined and Padded with Full Length Zipper.
AP354S	Stainless Steel Tabs with Slots for Spad Mounting
Pointed Thumb Screws	1 Pair of Stainless Steel Thumbscrews that replace adjustable set screws.

Manufactured by: Laser Tools Co., Inc., 12101 Arch St.
Little Rock, AR 72206, Phone 501-562-0900
FAX 501-562-0022
E mail lasertoolsco@lasertoolsco.com
Web site: <http://www.Lasertoolsco.com>