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GL350 MSHA Green Laser Technology™ Mining Alignment Laser Specifications and Operator Instructions

Warning

Do Not Direct The Laser Light Into The Eye!

Specifications: 532 nm, Class IIIa Diode Laser
<5 mw Maximum Output
2 Size "D" Alkaline Batteries
Battery Life:> 40 hours continuous use
Range: >3000 ft.
Dimension: Length 10.5" (266.7cm) x Diameter 1 5/8" (4.13cm)
Weight: 4 Lbs., 12 oz.

Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. [CDRH: Battery cap ON/OFF switch is an alternative to the beam on indicator and beam attenuator requirement.]

MSHA Approval Number: 18-A070010-0 Permissible

Constructed from solid brass with "O" ring seals, the GL350 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 2 1.5-volt size "D" Duracell MN1300 or Eveready E95 Alkaline 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, hanging string 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. Turn the battery end cap 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. Lubricate the battery cap "O" rings with a silicone-based spray lubricant or grease. 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 GL350 MSHA</u>	GL350 Alignment Laser complete with 2 D Alkaline Batteries.
<u>Model GL1000</u>	Optional Cylindrical Lens Line Generator Used with GL350 Alignment Laser. Projects a 10 foot line at 100 ft.
<u>Model AP185B</u>	Beam Shaper draws a uniform brightness line on the roof and rock face.
<u>Model AP42</u>	Optional Soft Carrying Case 18" Long, Plush Lined and Padded with Full Length Zipper.
<u>AP354S-TAB</u>	Stainless Steel Tabs with Holes for Spad mounting.

Manufactured by: Laser Tools Co., Inc.,
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