



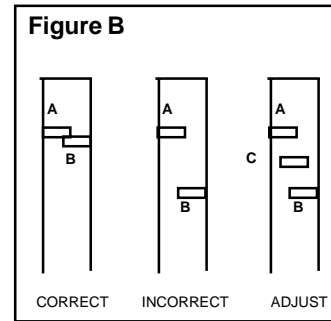
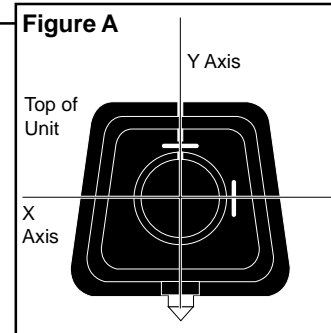
Beamer 4

MultiPurpose Laser

Operator's Manual



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Calibration Check: Horizontal & Vertical




Checking Calibration - Horizontal

1. Choose a fairly level area to project the beam approximately 100'. At far end of range a vertical surface such as a wall or post is needed as a "target" for checking the beam.
2. Set unit upright so "X" Axis (Figure A) is pointing at target. Power up unit and allow to self level.
3. Turn Rotor Head to put beam on target. Mark center of beam where it strikes target and call this mark "A"(Figure B).
4. Rotate entire unit 180° so the "X" Axis is again aligned with target, but in opposite direction. If using tripod, loosen mounting bolt to turn unit, then retighten being careful not to disturb tripod. Allow unit to self level, again move beam to aim at target, and mark height of beam center. Call this mark "B"(Figure B).
5. If marks "A" and "B" are at the same height or within 1/8" (3.2mm) of each other, calibration of the "X" axis is correct and no adjustment is necessary. Repeat the same procedure for the "Y" Axis(Figure A). If the marks are not the same, contact your local service center.

Checking Calibration - Vertical

1. Setup unit in vertical (lay down) position
2. Power up unit and allow to self-level.
3. Set rotor speed to zero rpm.
4. Drop a string and plumb bob 5 feet away from unit. It should be in line with the rotating beam.
5. Use Slope switch pad to align beam so it intercepts the bottom of the string.
6. With the unit level and the beam hitting the bottom of the string, slowly rotate the beam so it moves up the string. If the beam stays on the string all the way up, vertical calibration is correct.

Product Safety Labels

<p>A.  CLASS 3R LASER PRODUCT WAVE LENGTH 630-680 nm MAX. OUTPUT POWER: 5 mW LASER LIGHT: AVOID DIRECT EYE EXPOSURE CONFORMS TO IEC 60825-1:2001</p>	<p>B. AVOID EXPOSURE: LASER LIGHT IS EMITTED FROM THIS APERTURE.</p>
<p>SAFETY LABEL PLACEMENT</p> <p>A. Power Classification Label (right side, bottom) B. Aperture Exposure Label C. Non-Interlock, USA Class 3R D. Conformity Label E. Serial Tag</p>	<p>C. CAUTION: CLASS 3R LASER LIGHT WHEN OPEN AVOID DIRECT EYE EXPOSURE</p>
<p>NOTE Laser warning signs are included in the instrument case for posting on the jobsite.</p>	<p>D. THIS PRODUCT CONFORMS TO 21CFR, PARTS 1010 & 1040</p>
	<p>E.  </p>



IF WARRANTY CARD IS NOT ATTACHED, CALL 1-800-643-9696



Optional Extended Warranty available for AGL laser instruments and selected accessories only. See AGL Policies & Procedures "Warranty - Standard and Extended" for specific information.

WARRANTY CARD

Instrument Owner _____

Purchasing Contact _____

Address: _____

Phone: _____

City: _____

State: _____

Zip: _____

AGL Dealer: _____

Sales Person: _____

City & State: _____

Purchase Date: _____

Serial #: _____

Serial #: _____

Serial #: _____

Serial #: _____

Serial #: _____

Serial #: _____

Other: _____

FAILURE TO COMPLETE AND RETURN THIS CARD CAN RESULT IN LOSS OF WARRANTY COVERAGE.

Type of Contractor (please circle)

Interior	Excavating	Concrete	Utility
Site Prep	General		



To The Owner

Thank you for choosing an AGL Laser! Improving efficiency, productivity, and profits are obviously very important to you and your company. With proper operation as described in this manual, you will quickly discover your investment in an AGL Laser Instrument will soon pay for itself many times.

This manual has been written to help you use, understand and maintain the accuracy of your new laser. Please read it thoroughly. If you have questions about any of the procedures, or any special applications that are not described here, please call your AGL distributor or the factory for assistance and advice.

Welcome to the growing number of resourceful customers who are using AGL products to make work simpler and more profitable.

From all of us at AGL, thank you for choosing our laser instruments.

Pat Smith
Pat Smith, President

Specifications

Beamer 4

Beam: 3.5 milliwatts, 635 nM
 Beam Accuracy: ±1/16" @ 100'
 Classification: Class 3R
 SL Range: ±4% (±2.2°)
 Slope Range (both axis): ±4% (±2.2°)
 Waterproof: Yes, IPX4
 Rotor Speed - variable: 0-500 rpm
 Control Panel: Tactile feedback
 Battery Life: 35 hours
 Operating Temperature: -10° F (-18° C) to 120° F (50° C)
 Dimensions: 10.5" H x 6.5" W x 6.125" D
 Weight: 10.5 lbs.



General Information

- #### Features
1. Large, easy to read control panel.
 2. Top handle for easy carrying.
 3. Rough level vial.
 4. Adjustable feet for quick leveling.
 5. Electronic Slope Control.
 6. Rugged Aluminum Housing.
 7. Rechargeable battery makes the unit operational for approx. 35 hours.
 8. Mounting Base 5/8" x 11 and domed.

General Information

PLACE
STAMP
HERE

Control Panel

- 1. Power ON / OFF** - "ON" Indicator green
- 2. Rotor Speed** - Preset to approx. 150 rpm. Adjust rotor speed by pressing increase (rabbit) or decrease (turtle) switch pads. Stop rotation by pressing the decrease (turtle) switch pad until the rotor stops. Variable speed.
- 3. Self Leveling Control & Out-Of-Level Indicators** - Preset: ON in horizontal and vertical modes. To manually slope beam, press slope control switch pad (5 or 6). The OUT-OF-LEVEL indicators for that axis will turn "RED". To return to SELF-LEVELING mode, press the Self-Level Control switch pad (4) and the unit will self-level and the red OUT-OF-LEVEL indicators will turn off.
- 4. Slope Control** - Preset "OFF", in the horizontal and vertical modes. To activate the slope controls, press a SLOPE CONTROL switch pad. When the switch pad is released, both slope OUT-OF-LEVEL indicators for that axis will turn "RED", indicating OUT-OF-SELF-LEVEL mode and slope is activated. To return back to SELF-LEVELING mode, press the SELF-LEVEL switch pad. Unit will self-level and the red OUT-OF-LEVEL indicators will turn off.

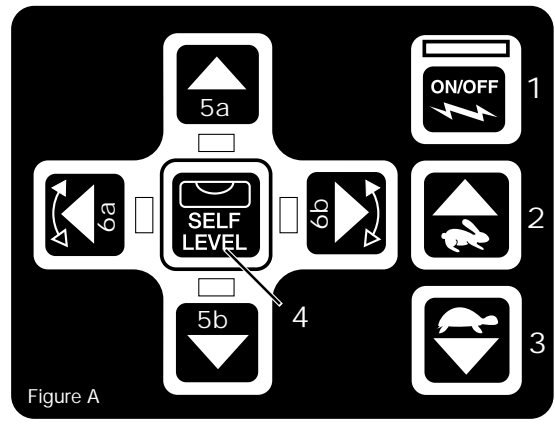
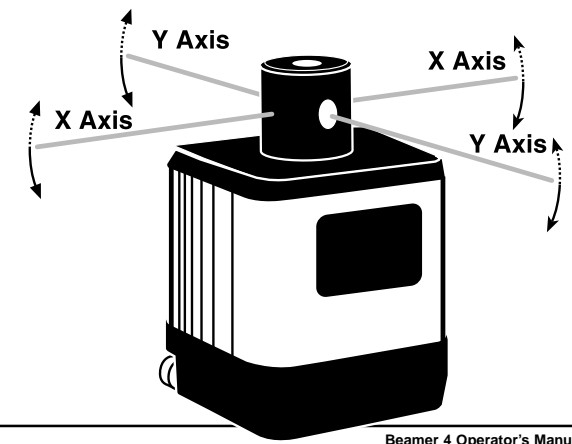


Figure A

1. Power On/Off
2. Increase Rotor Speed
3. Decrease Rotor Speed
4. Self-Leveling ON
- 5a. Y-Axis Slope Control
- 5b. Y-Axis Slope Control
- 6a. X-Axis Slope Control
- 6b. X-Axis Slope Control

NOTE: In the VERTICAL SETUP ONLY, the X axis SLOPE-OUT-OF-LEVEL indicators will turn "OFF", but the rotor head will hold the last set slope position. Slope range in both axis is ±4% (±2.2°).

NOTE: When using slope control pads, beam movement starts slow and increases as long as pad is pressed, up to the maximum speed.



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