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Bosch GCL 2-160

BOSCH GCL 2-160 Self-Leveling Cross-Line Laser with Plumb Points

Instruction Manual

PRODUCT OVERVIEW

The Bosch GCL 2-160 self-leveling cross-line laser with plumb points offers all-in-one versatility for various leveling and alignment tasks. It provides highly visible lines and points that can be activated independently or together for horizontal leveling, vertical alignment, and plumb transfer applications. This laser features VisiMax™ technology to optimize line visibility and extend battery life, and a smart pendulum system for accurate self-leveling.



Figure 1: The Bosch GCL 2-160 Self-Leveling Cross-Line Laser. This compact and robust tool is designed for precision leveling and alignment tasks.



Figure 2: Key features of the Bosch GCL 2-160, including VisiMax™ technology, all-in-one functionality, jobsite-durable housing, long vertical laser line, smart pendulum system, and rotating magnetic mount.

SETUP

Battery Installation

The GCL 2-160 requires three (3) AA batteries for operation. These are typically included with the product. To install or replace batteries:

1. Locate the battery compartment on the rear of the laser unit.
2. Open the battery compartment cover.
3. Insert the three AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

Important: Always remove batteries if the tool will not be used for an extended period to prevent leakage and damage.

Mounting Options

The GCL 2-160 comes with versatile mounting accessories for various applications:

- **RM 1 Magnetic Rotating Mount:** This mount allows the laser to rotate 360 degrees while staying centered on plumb points. It features powerful magnets for attachment to metal surfaces, or can be placed on a flat surface.
- **Ceiling Grid Clip:** Use this clip with the RM 1 mount for secure attachment to ceiling grids.
- **Tripod Compatibility:** The laser unit and its mount are compatible with standard tripods for stable positioning and height adjustment.

VISIMAX™ TECHNOLOGY

Delivers maximum beam brightness, optimized energy efficiency and long-term tool reliability

LONG VERTICAL LASER LINE

Extends line visibility behind the tool to a functionally vertical plane when placed next to a wall

SMART PENDULUM SYSTEM

Self-levels up to $\pm 4^\circ$, indicates out-of-level condition, and pendulum locks for safe tool transport

ALL-IN-ONE FUNCTIONALITY

Offers highly visible crisp lines and points for horizontal leveling, vertical alignment and plumb point transfers

JOBSITE-DURABLE HOUSING

Features rubber over-mold and IP54 rating for dust and splash protection

ROTATING MAGNETIC MOUNT

Rotates 360° while staying centered on the plumb point

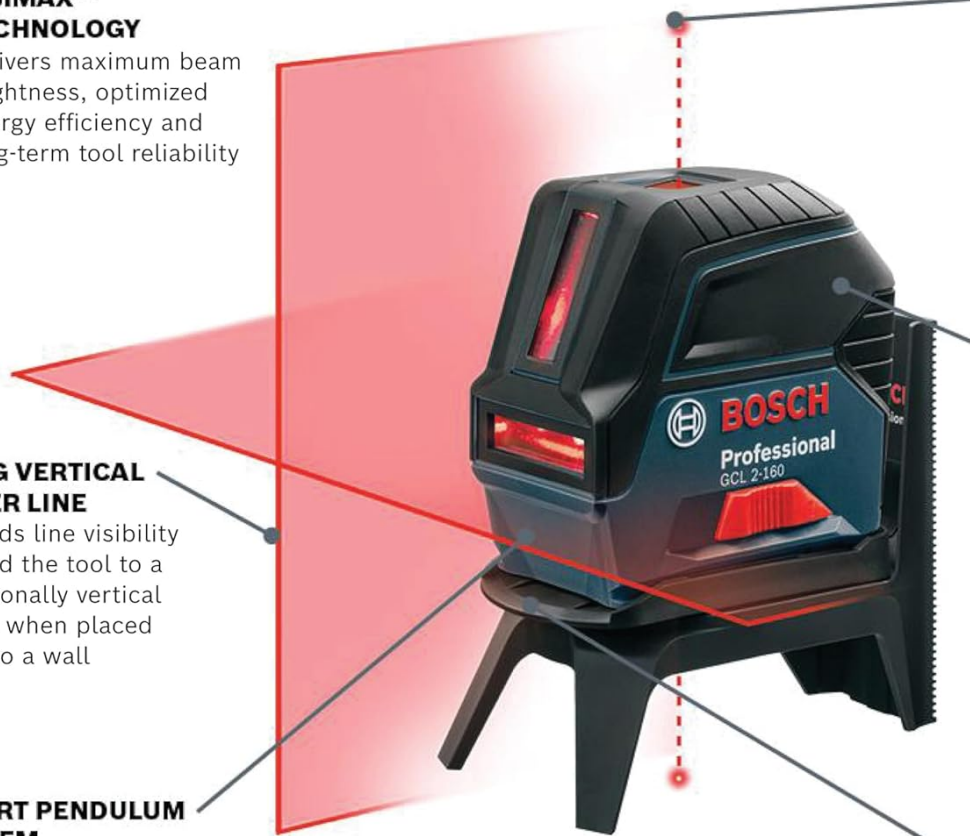


Figure 3: The Bosch GCL 2-160 laser with its included RM 1 magnetic rotating mount, ceiling grid clip, laser target plate, and AA batteries.

OPERATING INSTRUCTIONS

Powering On/Off and Mode Selection

To power on the device, slide the main switch to the "On" position. The laser will automatically self-level. To select different operating modes (horizontal line, vertical line, cross-lines, or plumb points), press the "Mode" button on the top of the unit. To power off, slide the main switch to the "Off" position.



Figure 4: The four primary selection modes: Horizontal Laser Line, Vertical Laser Line, Horizontal & Vertical Laser Lines & Plumb Points, and Laser Plumb Points.

Self-Leveling Function

The smart pendulum system allows the laser to self-level within an accuracy of up to +/- 4 degrees. If the unit is placed on a surface that is outside this range, it will indicate an out-of-level condition, typically by flashing the laser lines. For applications requiring lines at an angle, the manual mode locks the lines, allowing use at any desired angle.

Receiver Mode

For extended working ranges up to 165 feet, the GCL 2-160 can be used with an optional Bosch line laser receiver (e.g., LR 6). Activate the receiver mode on the laser unit to enable detection by the receiver, which is useful in bright conditions or over long distances where the laser line may not be visible to the naked eye.

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Video 1: Official Bosch video demonstrating the features and applications of the GCL 2-160 Self-Leveling Cross Line Laser, including its all-in-one functionality, bright laser lines, receiver mode, and robust design.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Bosch GCL 2-160 laser.

- **Cleaning:** Regularly clean the laser lenses and the tool's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the laser in its hard carrying case in a dry, cool place when not in use. Remove batteries for long-term storage.
- **Durability:** The robust over-molded construction makes the laser IP54 rated, providing splash water and dust protection. While durable, avoid submerging the tool in water or exposing it to excessive dust.



Figure 5: The Bosch GCL 2-160 boasts an accuracy of up to $\pm 1/8$ inch, a range of up to 165 ft (with receiver), and an IP54 rating for

dust and splash protection.

TROUBLESHOOTING

- **Laser Lines Not Visible:** Ensure the batteries are correctly installed and charged. In bright light conditions or over long distances, use the optional Bosch line laser receiver.
- **Laser Lines Flashing:** This indicates the tool is out of its self-leveling range. Adjust the position of the laser until the lines become steady.
- **Inaccurate Readings:** Verify the tool is on a stable surface and within its self-leveling range. Ensure the pendulum lock is disengaged for self-leveling operation.

SPECIFICATIONS

Feature	Detail
Brand	Bosch
Model	GCL 2-160
Laser Type	Cross-Line Laser with Plumb Points
Visible Range	65 feet
Working Range (with receiver)	Up to 165 feet
Accuracy	±1/8 inch at 33 feet
Self-Leveling Range	Up to ±4 degrees
IP Rating	IP54 (Splash water and dust protection)
Power Source	3 x AA Batteries (included)
Item Weight	1.1 Pounds
Product Dimensions	4.4"L x 2.2"W

WARRANTY INFORMATION

Bosch measuring and layout tools are covered by a one-year limited warranty. An additional year of coverage is available when you register your tool within eight (8) weeks of purchase. For full terms and details, please visit the official Bosch website or call 1-877-BOSCH99.



Figure 6: Bosch offers a 1-year limited warranty, extendable by an additional year upon product registration.

SUPPORT

For further assistance, technical support, or service inquiries, please refer to the contact information provided in your product packaging or visit the official Bosch Tools website. Online resources, FAQs, and additional instructional materials may also be available.