

Bosch 06159940P5

Bosch GRL 600 CHV Rotary Laser Level User Manual

Model: GRL 600 CHV (06159940P5)

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your Bosch GRL 600 CHV Rotary Laser Level. Please read this manual thoroughly before first use and keep it for future reference.

The Bosch GRL 600 CHV is a professional-grade rotary laser level designed for precise horizontal and vertical leveling, alignment, and slope applications in construction and surveying. It comes as a comprehensive kit including the GRL 600 CHV laser, BT 170 HD tripod, and GR 240 measuring rod.

2. SAFETY INSTRUCTIONS

WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

2.1. Laser Safety

- Do not stare directly into the laser beam.
- Do not intentionally direct the laser beam at persons or animals.
- Avoid exposing the laser to direct sunlight or extreme temperatures.
- Use only original Bosch accessories and spare parts.

2.2. General Safety

- Keep the work area clean and well lit.
- Do not operate the laser in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- Keep children and bystanders away while operating the laser.
- Ensure the tripod is stable on a firm, level surface before mounting the laser.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking:

- Bosch GRL 600 CHV Rotary Laser Level
- BT 170 HD Tripod
- GR 240 Measuring Rod (Toise)
- Remote Control (RC 6)
- Laser Receiver (LR 60)
- Battery Pack (e.g., ProCORE18V)
- Charger
- Battery Compartment for D-cell batteries (for Dual Power option)
- Laser Target Plate
- Laser Viewing Glasses
- Wall Mount/Bracket
- Carrying Case



Figure 3.1: Overview of the Bosch GRL 600 CHV Rotary Laser Level complete kit.



Figure 3.2: The Bosch GRL 600 CHV kit components stored within the robust carrying case.

4. SETUP

4.1. Battery Installation

The GRL 600 CHV supports both Bosch Professional 18V batteries and D-cell batteries via an adapter (Dual Power system).

- Open the battery compartment cover.
- Insert the charged 18V battery pack or the D-cell battery adapter with 4x D-cell batteries, ensuring correct polarity.
- Close the battery compartment cover securely.



Figure 4.1: The GRL 600 CHV features a Dual Power system, allowing use of both Li-ion battery packs and 4x D-cell batteries.



Figure 4.2: The GRL 600 CHV is part of the Bosch Professional 18V System, ensuring compatibility with other 18V tools.

4.2. Tripod Assembly (BT 170 HD)

1. Extend the tripod legs to the desired height.
2. Ensure the tripod is stable and level on the ground.
3. Adjust the height of the center column using the crank.

4.3. Mounting the Laser Level

- Place the GRL 600 CHV onto the tripod's mounting plate.
- Secure the laser level using the tripod's locking screw.
- For vertical applications, use the included wall mount/bracket if needed.

5. OPERATING INSTRUCTIONS

5.1. Powering On and Self-Leveling

- Press the On/Off button to power on the device.
- The laser will automatically self-level. This process is indicated by a flashing laser beam. Once leveled, the beam will become steady.
- If the device is outside its self-leveling range, an error indicator will appear, and the laser will not rotate. Adjust the tripod until it is within range.



Figure 5.1: The GRL 600 CHV in operation, projecting a 360-degree horizontal laser line.

5.2. Operating Modes

The GRL 600 CHV offers various operating modes:

- **Horizontal Mode:** Projects a continuous 360° horizontal laser plane. Ideal for general leveling tasks.
- **Vertical Mode:** Projects a vertical laser plane. Useful for aligning walls, plumbing, or squaring.
- **Slope Mode:** Allows for manual or semi-automatic setting of slopes in X and Y axes.
- **Spot Mode:** Projects a single laser dot for precise point transfer.

Use the buttons on the control panel or the RC 6 remote control to switch between modes and adjust settings.

5.3. Using the Laser Receiver (LR 60)

For outdoor use or over long distances, the LR 60 laser receiver is essential:

1. Turn on the LR 60 receiver.

2. Move the receiver along the measuring rod in the path of the laser beam.
3. The display and audible signals on the receiver will indicate when it is precisely at the laser plane.

5.4. Using the Measuring Rod (GR 240)

The GR 240 measuring rod is used in conjunction with the laser receiver to determine height differences and transfer levels.

- Extend the sections of the measuring rod.
- Attach the laser receiver to the clamp on the measuring rod.
- Read the measurement directly from the scale on the rod once the receiver indicates the laser plane.

6. MAINTENANCE

6.1. Cleaning

- Keep the laser level, tripod, and accessories clean.
- Wipe off dirt and dust with a damp, soft cloth. Do not use harsh cleaning agents or solvents.
- Regularly clean the laser exit aperture to ensure optimal performance.

PROFESSIONAL 18V SYSTEM

Figure 6.1: The GRL 600 CHV is designed as a Protected Tool, offering resistance against impact, water, and dust.



Figure 6.2: The GRL 600 CHV boasts an IP 68 rating, ensuring excellent protection against dust ingress and prolonged immersion in water.

6.2. Calibration Check

Regularly check the calibration of your laser level, especially after significant impacts or temperature changes. Refer to the Bosch service center for professional calibration if needed.

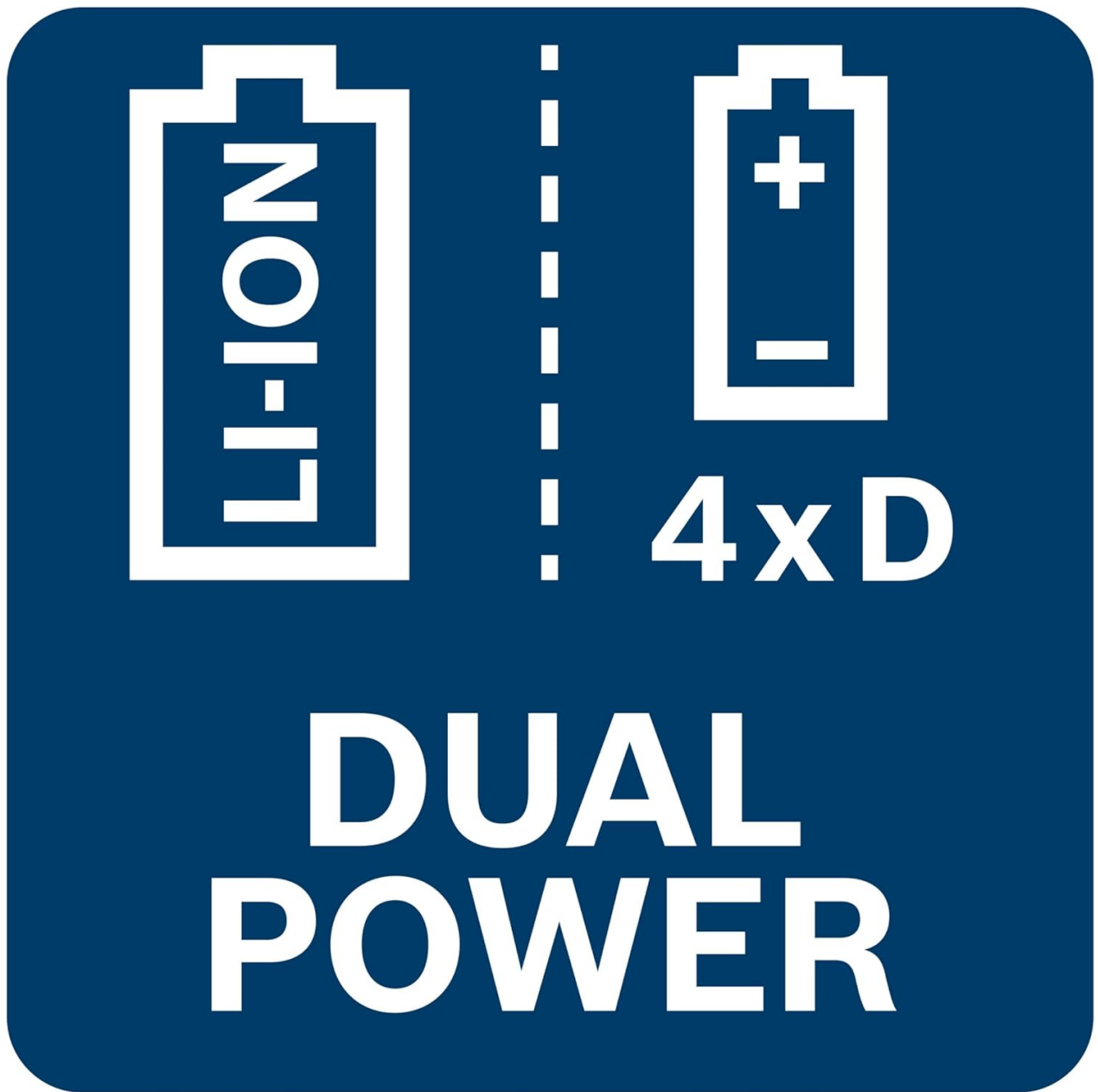


Figure 6.3: The UCAL mark indicates adherence to specific calibration standards, ensuring measurement accuracy.

6.3. Storage

Store the device and accessories in the original carrying case in a dry, dust-free environment, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser does not turn on.	Battery is dead or incorrectly inserted.	Charge battery or check battery polarity.
Laser beam flashes continuously and does not rotate.	Device is outside its self-leveling range.	Adjust the tripod/device until it is within the self-leveling range.
Inaccurate measurements.	Device is out of calibration or unstable.	Check stability of setup. Perform a calibration check or send for professional calibration.
Remote control not working.	Remote batteries are dead or out of range.	Replace remote batteries. Ensure line of sight and proximity to the laser.

8. SPECIFICATIONS

Feature	Detail
Model	GRL 600 CHV
Manufacturer	Bosch
Product Dimensions (L x W x H)	1 x 1 x 1 cm
Item Weight	4.2 Kilograms
Power Source	Manual Power (Dual Power: 18V Li-ion / 4x D-cell Alkaline)
Material	Metal
Color	Blue
Style	Laser
ASIN	B08FFH9M68
Model Number	06159940P5

9. WARRANTY AND SUPPORT

Bosch Professional tools are built to last and come with a manufacturer's warranty. For detailed warranty information, registration, and service inquiries, please refer to the official Bosch Professional website or contact your local Bosch service center.

Keep your proof of purchase for warranty claims.

For technical support or spare parts, please contact Bosch customer service or an authorized service partner.