

Black & Decker BDL100S

Black & Decker BDL100S BullsEye Laser Line Generator with Stud Finder Instruction Manual

1. PRODUCT OVERVIEW

The Black & Decker BDL100S BullsEye is a versatile tool designed for accurate leveling and stud detection. It combines a self-leveling laser line generator with a stud finder capable of detecting studs through walls up to 3/4 inch thick. The unit features a rubber overmold for a secure grip and includes target cones to enhance laser line visibility over distances.

Key Features:

- Laser line automatically levels for precise horizontal alignment.
- Stud finder detects studs through walls up to 3/4-inch thick.
- Rubber overmold provides comfort and grip during handheld use.
- Hanging pin fastens the unit to the wall for hands-free operation.
- Target cones enhance visibility of the laser line at long distances.



Figure 1: Black & Decker BDL100S BullsEye Laser Line Generator with Stud Finder. This image shows a close-up view of the tool, highlighting its ergonomic design, laser output, and stud detection area.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the BDL100S BullsEye Laser Line Generator with Stud Finder:

- **CAUTION:** Laser radiation. Do not stare into the beam. Avoid direct eye exposure to the laser beam.
- Do not attempt to modify or disassemble the laser unit. Unauthorized modifications can result in hazardous laser radiation exposure.
- Keep the tool out of reach of children.
- Use the tool only for its intended purpose as described in this manual.
- Ensure the work area is well-lit to prevent accidents.

- Remove the battery when the tool is not in use for extended periods to prevent leakage.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Black & Decker BDL100S BullsEye Laser Line Generator with Stud Finder unit
- Protective storage case
- 2 Target cones
- Adapter cone
- 9-volt alkaline battery
- Hanging pin (for drywall surfaces)

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment on the unit.
2. Open the battery compartment cover.
3. Insert the included 9-volt alkaline battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

4.2 Mounting the Unit

The BullsEye can be mounted for hands-free operation:

- **For Drywall:** Place the unit at the desired height. Push the hanging pin (included) through the open center of the unit into the drywall.
- **For Other Surfaces:** Use the keyhole insert on the back of the unit with a standard screw or nail (not included) for surfaces other than drywall.

5. OPERATING INSTRUCTIONS

5.1 Using the Laser Line Generator

1. Mount the unit securely at the desired height.
2. Activate the laser line function. The built-in pendulum will automatically level the unit, projecting a horizontal laser line.
3. The laser line is typically visible up to 10 feet in either direction under normal indoor lighting conditions.
4. For extended visibility up to 50 feet in either direction (total 100 feet), use the included target cones. Place the cones at the desired points to capture and enhance the laser light.

5.2 Using the Stud Finder

1. Ensure the unit is held flat against the wall surface.
2. Activate the stud finder function.
3. Slowly slide the unit horizontally across the wall.
4. The stud finder detects changes in wall density. It provides both an LED indicator and an audible alarm to signal the edge of a stud.
5. The stud finder is effective through walls up to 3/4 inch thick.

6. MAINTENANCE

- **Cleaning:** Wipe the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents. Keep the laser output window clean for optimal performance.
- **Battery Care:** Replace the 9-volt battery when the indicators dim or the unit's performance decreases. Remove the battery if the tool will not be used for an extended period to prevent corrosion.
- **Storage:** Store the BullsEye in its protective storage case when not in use to prevent damage from impacts or dust.

7. TROUBLESHOOTING

- **Laser Line Appears Uneven or Inaccurate:** Ensure the unit is placed on a stable, flat surface or securely mounted. Allow the internal pendulum sufficient time to self-level. Avoid vibrations during operation.
- **Laser Line Not Visible:** Check battery level. Ensure the work area is not excessively bright. Use the target cones to enhance visibility, especially in brighter conditions or over longer distances.
- **Stud Finder Not Detecting:** Ensure the unit is held flat against the wall and moved slowly. Verify battery level. The stud finder may have difficulty with certain wall materials or very deep studs.
- **Unit Not Powering On:** Check battery installation and ensure the battery has sufficient charge.

8. SPECIFICATIONS

Item Weight	2.3 pounds
Package Dimensions	12 x 9.6 x 3 inches
Item Model Number	BDL100S
Is Discontinued By Manufacturer	Yes
ASIN	B00006S7D2
Date First Available	October 1, 2002

9. WARRANTY AND SUPPORT

Warranty Description: This product comes with a 2-Year Warranty.

For warranty claims or technical support, please refer to the contact information provided with your original purchase documentation or visit the official Black & Decker website. As this model has been discontinued, support availability may vary.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question