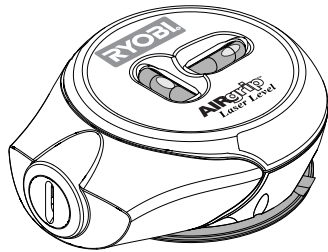




REGISTER YOUR TOOLS
http://register.ryobitools.com
1-800-525-2579

OPERATOR'S MANUAL COMPACT LASER LEVEL WITH AIRgrip™ ELL1002



SAVE THIS MANUAL
FOR FUTURE REFERENCE

WARNING: To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

SAFETY RULES

WARNING!
READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

CAUTION:
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION:
The use of an optical instrument with this product will increase eye hazard.

The laser guide radiation used in this laser level is Class IIIa with < 5mW and 650 nm wavelengths. These lasers do not normally present an optical hazard although staring at the beam may cause flash blindness.

- **Avoid direct eye exposure when using the laser and do not project the laser beam directly into the eyes of others.** Serious eye injury could result.
- **Do not remove or deface any product labels.** Removing product labels increases the risk of exposure to laser radiation.

- **Do not place the laser level in a position that may cause anyone to stare into the laser beam intentionally or unintentionally.** Serious eye injury could result.
- **Do not operate the laser level around children or allow children to operate the tool.** Serious eye injury could result.
- **Always turn the laser level off when not in use.** Leaving the tool on increases the risk of someone inadvertently staring into the laser beam.
- **Do not operate the laser level in combustible areas such as in the presence of flammable liquids, gasses, or dust.**
- **Always ensure the laser beam is aimed at a surface without reflective properties.** Shiny reflective materials are not suitable for laser use.
- **Handle the laser level with care.** Treat it as you would any other optical device such as a camera or binoculars.
- **Avoid exposing the laser level to shock, continuous vibration or extreme hot or cold temperatures.** Damage to the tool and/or serious injury to the user could result.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this laser level. If you loan someone this laser level, loan them these instructions also.

FEATURES

PRODUCT SPECIFICATIONS

Recommended Use.....Indoor
Length of Laser Line.....Up to 30 ft., Horizontal or Vertical
LaserClass IIIa, <5mW, 650 nm
Power Supply.....2 AAA, 1.5 Volt Batteries*
Battery Life.....2.5 Hours Continuous Use — included Alkaline Batteries (Vacuum)
1 Hour Continuous Use — included Alkaline Batteries (Laser)
Operating Temperature.....32°F to 104°F
Dimensions.....3-1/2 in. x 2-7/8 in. x 1-3/8 in.
Accuracy.....± 1/2 in. at 20 ft.
*Laser level performance is greatly enhanced when using premium-branded alkaline batteries.

KNOW YOUR LASER LEVEL

See Figure 1.

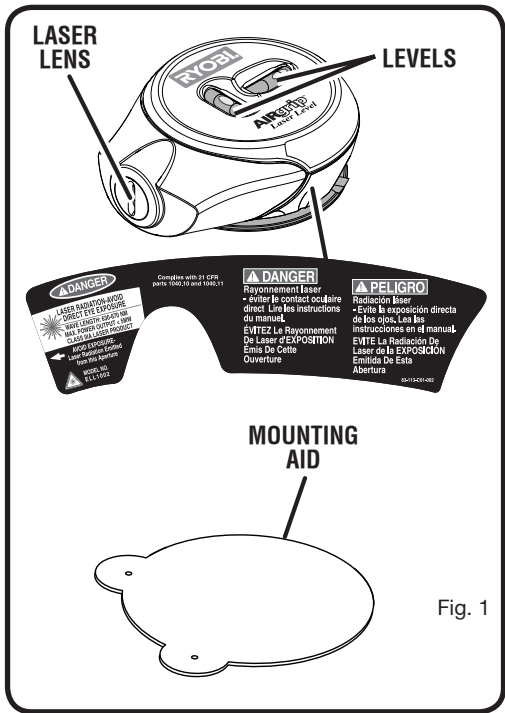
The safe use of this product requires an understanding of the information on the tool and in this operator's manual as well as a knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

AIRgrip™ VACUUM TECHNOLOGY

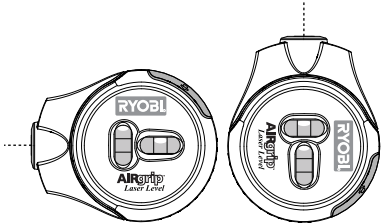
Your laser level uses a vacuum base that can adhere to smooth surfaces. Using the vacuum seal prevents wall damage caused by nails, pins, or adhesive tape.

MOUNTING AID

The AIRgrip vacuum may be ineffective on some surfaces. Use the mounting aid to increase the number of surfaces on which the AIRgrip vacuum can be used.



ALWAYS BE AWARE of the location where the laser light is emitted when using the level. ALWAYS MAKE SURE that any bystanders in the vicinity of use are made aware of the dangers of looking directly into the laser beam.



ASSEMBLY

UNPACKING

This product has been shipped completely assembled. If any parts are damaged or missing, please call 1-800-525-2579 for assistance.

PACKING LIST

Laser Level
AAA Batteries (2)
Mounting Aid
Operator's Manual

OPERATION

INSTALLING BATTERIES

See Figure 2.

- Depress the ridged area on the bottom of the battery cover and pull the cover off the laser level.
- Install batteries according to polarity indicators (+ or -) inside the battery compartment.
- Place the lens cover back onto the laser level and secure.

WARNING:

When turning on the laser level, always protect the eyes of yourself and those around you. Never point the laser beam at anyone's face, including your own.

TURNING ON/OFF

See Figure 3.

The on/off switch is located on the side of the laser level. Pushing the switch down will turn the laser level **ON** and activate the vacuum pump; pushing the switch up will turn the unit **OFF**. Always wait for at least 5 seconds between stopping and restarting the laser level.

USING THE AIRgrip VACUUM

See Figures 3 - 4.

The laser level's vacuum grip technology allows attachment to most smooth surfaces.

- Place the laser level on the surface you want it secured to and push in slightly to seal.
- Continue to hold the laser level against the surface while turning on the laser.
- Release the laser level slowly when you hear a change in motor sound.

NOTE: To release the vacuum seal, turn the laser level's power off. For fast release, press the protrusion on the side of the unit opposite the power switch. Pulling the laser level off the wall without releasing the vacuum could damage the tool.

The laser will automatically shut off 15 minutes prior to battery failure, but the motor will remain on. Press the on/off switch to power down the unit and replace the batteries.

OPERATING THE LASER LEVEL

See Figure 4.

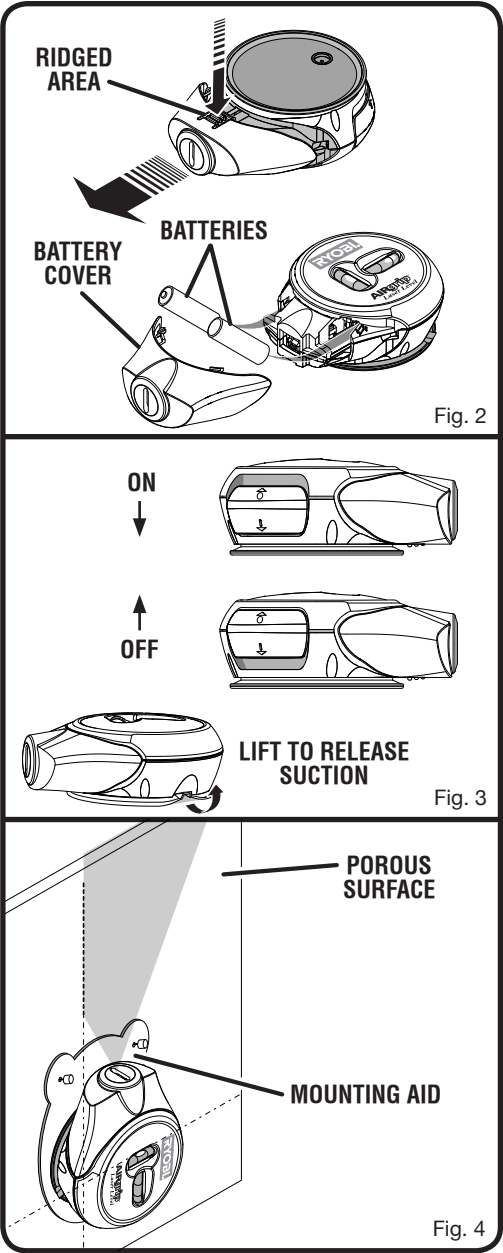
- Place the laser level in the area where you want the laser line projected.
- Rotate the unit so that the laser lens points in the direction in which you want the line projected.
- When a vertical line or level horizontal line is desired, level the tool by centering the bubble inside the appropriate vial located on top of the laser head.
- Turn on the laser.

USING THE MOUNTING AID

See Figure 4.

Using the mounting aid, you can use the laser level's AIRgrip feature to position the unit on many non-smooth surfaces, including brick, painted cinderblock, textured wallpaper, and stucco walls.

NOTE: The AIRgrip feature cannot be used with stucco or unpainted cinderblock.



- Position the mounting aid on the surface where you want to use the laser level. Secure with pins or tape (not provided).
- Place the laser level against the mounting aid and push in slightly to engage the seal.
- Continue to hold the laser level against the surface while turning the unit **ON** and unit is adhered to surface.
- Release the laser level slowly when you hear a change in motor sound.

CAUTION:

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

MAINTENANCE

WARNING:

To avoid serious personal injury, always remove the batteries from the tool when cleaning or performing any maintenance.

GENERAL MAINTENANCE

- Before initial use, wipe AIRgrip vacuum base with a damp cloth to remove any residue.
- Store the laser level indoors.
- Keep the laser level free of dust and liquids. Use a damp cloth and mild soap to clean the outside casing. Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use.

WARNING:

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic, which may result in serious personal injury.

SERVICE

This laser level has no serviceable parts. If the unit fails due to normal wear and tear within two years of purchase, return with original receipt for a replacement unit at no charge.

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OTC: TTNDY

RYOBI is a registered trademark of Ryobi Limited and is used pursuant to a license granted by Ryobi Limited.

This product has a Two-year Limited Warranty.
For Warranty details go to www.ryobitools.com

