

JOHNSON®
HOT SHOT®
SOUND & LIGHT LASER LEVEL KIT
Model #9105/40-0910
ASSEMBLY & OPERATING MANUAL



This tool emits a laser beam that is projected as a visible point on the surface at which the tool is aimed. Beam visibility depends upon lighting conditions in the work area and attachments used.

This is a Class IIIa laser tool and is manufactured to comply with CFR 21 parts 1040.10 and 1040.11 as well as international safety rule IEC 285.

SAFETY INSTRUCTIONS

Please read and understand all the following instructions prior to using this tool. Failure to follow all the warnings below may result in bodily injury.

CAUTION!

Class IIIa Laser Product
 Max. Power Output: < 5mW
 Wavelength: 640-660nm
THIS TOOL EMITS LASER RADIATION
DO NOT STARE INTO BEAM
AVOID DIRECT EYE EXPOSURE



TECHNICAL SPECIFICATIONS

Class IIIa Laser	
Length of Level:	21-1/2" (54.5cm)
Maximum Power Output:	< 5mW
Measuring Range:	Up to 330 ft. (100m) of visible light, depending on illumination of work area and attachments used.
Wavelength:	640-660nm
Measuring Accuracy:	±.006 in./ft. (±.5mm/m)
Power Supply:	2 AAA (1.5V) batteries
Certifications:	CE, GS

ABOUT THIS PRODUCT

The Johnson Sound & Light Laser Level is an instrument utilizing a laser beam to plot distant points or lines. The main body of the spirit level is made of heavy-duty aluminum with two quality vials (horizontal and vertical), a semiconductor laser and a special digital “sound and light” leveling system.

When the laser level is installed on the leveling base and rotated through 360°, the laser point always remains horizontal. The lightweight, yet sturdy tripod allows the laser point or beam to be set to the required height. The attachments supplied with the kit help find level and plumb points easily, and can be further adjusted to any angle.

KIT INCLUDES

- Sound & Light laser level
- 360° rotating leveling base
- Telescoping tripod
- 90° angle deviator lens
- Line projection lens
- Tinted goggles
- 2 AAA (1.5V) batteries

WARNING!

The tinted goggles are designed to enhance the visibility of the laser beam. They DO NOT offer protection to the eyes from direct exposure of the laser beam.



ATTENTION!



ATTENTION!

- Never look into the laser beam with naked eyes. Any improper use of this laser level may cause injury to the eyes.
- Do not direct laser beam at another person or reflective surfaces. Even a lower capacity laser beam may cause injury to the eyes.
- Store laser level out of children’s reach. It is not a toy.
- Any change to the laser level resulting in increased performance is strictly prohibited. Any claim for damages due to injuries resulting from the non-compliance of these safety instructions will be refused.
- When storing laser level for time periods over 3 months, remove the batteries from the unit in order to avoid damage due to battery leaks.
- This laser level does not contain any serviceable parts. Never open the housing, as this will void the warranty.

SAFETY INSTRUCTIONS

Please read and understand all the following instructions prior to using this laser tool. Failure to follow all the warnings below may result in bodily injury.

IMPORTANT:

Read all instructions prior to operating this laser tool and DO NOT remove any labels from the tool.

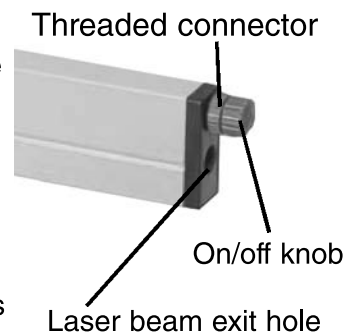
- Use of controls or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not stare directly at the laser beam.
- Do not project the laser beam directly into the eyes of others.
- Do not set up the laser tool at eye level or operate the tool on or near a reflective surface, as laser beam could be projected into your eyes or the eyes of others.
- Do not place laser tool in a manner that may cause someone to unintentionally look into the laser beam. Serious eye injury may result.
- Do not operate the laser tool in explosive environments, i.e. in the presence of gases or flammable liquids.
- Keep the laser tool out of reach of children and other untrained persons.
- Do not attempt to view the laser beam through optical tools such as telescopes as serious eye injury may result.
- Always turn the laser tool off when it is not in use or is left unattended for a period of time. Remove the batteries when storing the tool for an extended time to avoid damage to the tool should the batteries deteriorate.
- Do not attempt to repair or disassemble the laser tool. If unqualified persons attempt to repair the tool, serious injury may result to the person.

INSERTING/CHANGING BATTERIES & ACTIVATING THE LASER BEAM

Open the red, threaded connector and insert the two AAA (1.5V) batteries (as shown on the diagram printed on the level housing).

To turn the laser level “on”, rotate the knob located above the laser beam exit hole in a clockwise direction. To turn the beam “off”, rotate the knob counter-clockwise.

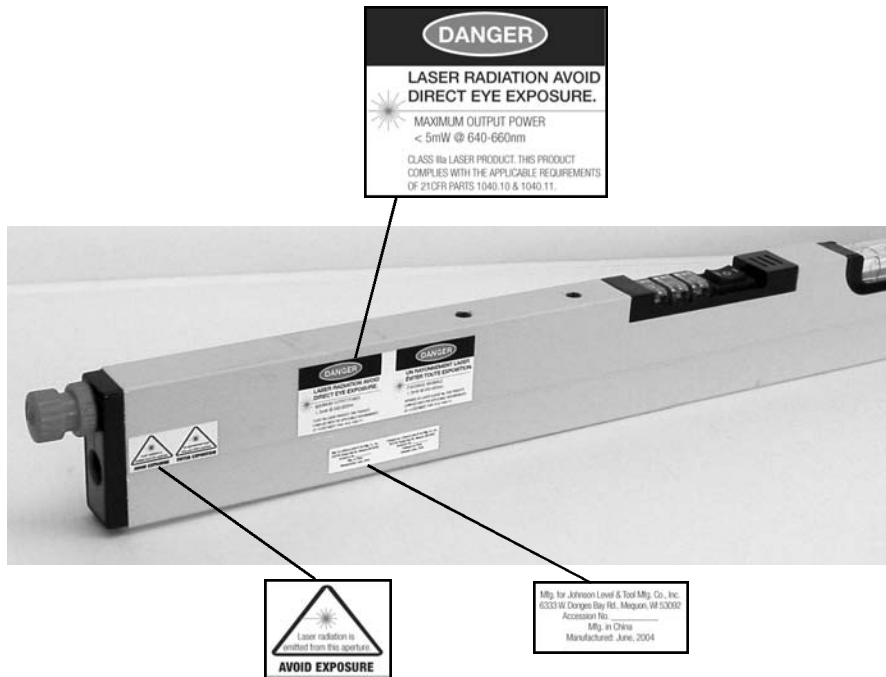
Note: Used (discharged) batteries are hazardous waste and must be disposed of properly.



CARE & HANDLING

- This laser unit is a precision tool that must be handled with care.
- Avoid exposing the unit to shock vibrations and extreme temperature.
- Always store the laser tool in its case when not in use.
- Avoid getting unit wet.
- Keep the laser tool dry and clean.
- It is recommended that the batteries be removed from the laser if it is to be stored for an extended period of time.

LOCATION/CONTENT OF WARNING LABELS

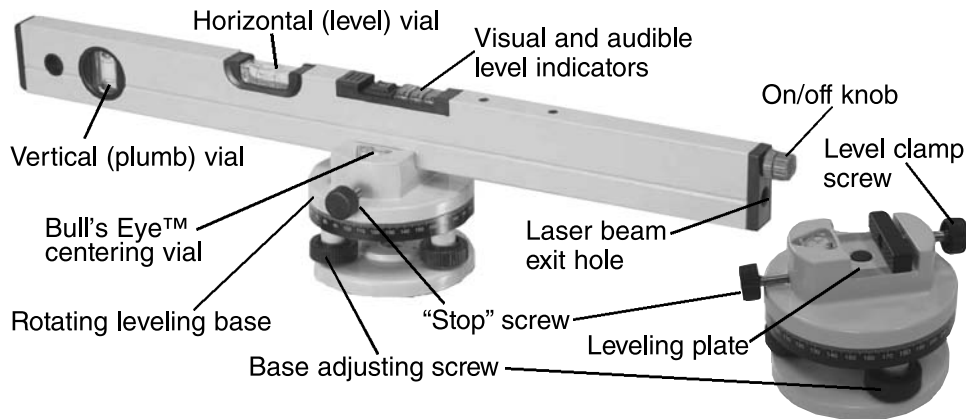


WARNING!

**DO NOT LOOK DIRECTLY INTO THE LIGHT BEAM.
DO NOT AIM LIGHT BEAM DIRECTLY INTO EYES
THIS WILL DAMAGE THE EYES**



LOCATION OF PARTS/COMPONENTS



ASSEMBLY & ADJUSTMENT

- 1) Open the tripod and position it firmly on a surface that is even and as near level as possible. For uneven surfaces and inclines, compensate by adjusting the telescoping legs of the tripod and level with the aid of the built-in Bull's Eye® centering vial (found at the top of the tripod).
- 2) Tightly screw rotating leveling base and tripod together.
- 3) Bring leveling plate of base in a level position by means of the three base adjusting screws and built-in Bull's Eye® centering vial.
- 4) Balance laser level on leveling plate with sound and light indicators centered on leveling plate's surface. Bottom of laser level should be flat against leveling plate. Secure level in place with level clamp screw.
- 5) Next, loosen "stop" screw on rotating leveling base. Turn base until laser level's on/off knob is located directly over one of the base adjusting screws. Check bubble in the horizontal level vial. It should be centered between the vial's lines. If not, use this base adjusting screw to adjust bubble's position. Be sure to only adjust the screw over which the on-off knob is positioned. Repeat this bubble alignment check over the other two base adjusting screws—this is critical! Then, turn base to first position checked and re-check, adjusting if necessary.
- 6) Set the height (elevation) of the laser's point at the desired position using the tripod's crank handle.
- 7) Use the degree scale on the rotating leveling base to set the laser level at the required angle.

USING THE SOUND AND LIGHT FEATURES

Turn the laser on by turning the red on/off knob located at the front of the unit. Note: The laser must be turned on to use the level in Sound & Light mode. To turn the laser off simply turn the knob back in the opposite direction. There are three options for leveling the laser:

Manual Mode

With the switch set to position (O) both the sound and light features are turned off and leveling is done manually through the use of the level vial.

Sound & Light Mode

With the switch set to position (I) both the sound and light features are activated. When both a long and constant beep is heard and the light remains constantly green, that signifies that the laser is level. In this state the vial should be level as well.

Light Mode

When the switch is set to the position (II) it is in the power saving mode and only the lights will work. In this position there is no audible feature activated. The vial too should be level when the light is constantly green.



Note: The sound and light feature is intended only for use in the horizontal position.

WARNING!

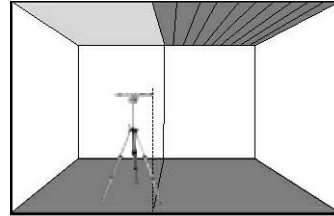
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90° ANGLE OPTION/ 360° DEVIATION OF BEAM

By inserting the deviation lens into the laser beam exit hole, the emerging laser beam will be deviated by 90 degrees. This generates a vertical (perpendicular) reference point to the standard, horizontal laser beam.

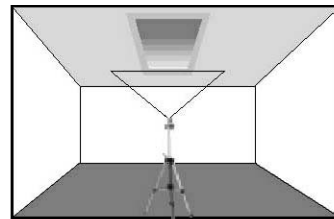
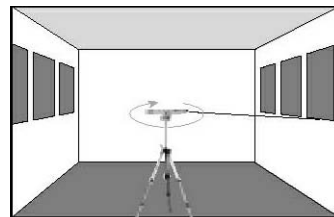
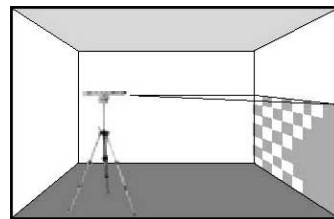
Please note: The laser line optic facilitates a simple marking of horizontal and vertical lines.



LINE PROJECTION

Inserting the line projector attachment will project a line onto the wall (instead of a point). To achieve a level line, rotate laser level without attachments towards a wall corner and mark where the laser point appears. Repeat on opposite wall corner. Then rotate laser level towards center of these two dots and insert line projection attachment. Rotate attachment until laser beam meets both points marked on wall.

Please note: Use of the line projection lens results in a loss of brightness.



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PRODUCT WARRANTY

Every Johnson® tool is guaranteed from imperfections and defects in material and workmanship. Our obligation under this warranty is expressly limited to the following:

If any tool proves to be imperfect or defective under conditions of normal use within one year from the date of purchase, we agree to repair or replace the tool if it is immediately returned to our factory in Mequon, Wisconsin; transportation charges prepaid. Under no circumstance, however, do we assume responsibility for breakage where flaws do not appear or for tools which have suffered from abusive treatment, or which have been stamped with the owner's name, altered, or experimented upon. No dealer or distributor is authorized to make replacements for us. This warranty is made in lieu of all other warranties, expressed or implied, and in lieu of all other obligations in our past. We neither assume nor authorize any agent or other person to assume for us any further liability in connection with the sale of our tools.

**If you experience any issues with this product,
Do Not Return to Store!**

**In the US, contact:
Johnson Level & Tool's
Customer Service Dept.
at (262) 242-1161**

**In Canada, contact:
Johnson Level & Tool
Customer Service Dept.
at (514) 695-7221**

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LASER