



Manual-Leveling Rotary Laser Kit ***Model No. 40-0918***



Instruction Manual

Congratulations on your choice of this Manual-Leveling Rotary Laser Kit. We suggest you read this instruction manual thoroughly before using the instrument. Save this instruction manual for future use.

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.

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1. Kit Contents

<u>Description for Model 40-0918</u>	<u>Qty.</u>
Manual-Leveling Rotary Laser	1
Elevating Tripod	1
Tinted Glasses	1
“AA” Alkaline Batteries	4
Instruction Manual with Warranty Card	1
Hard-Shell Carrying Case	1

2. Features and Functions

- Manual level in horizontal and vertical planes.
- Simultaneous 90° split beam in vertical mode.
- Illuminated vials for easy reading in all conditions.
- Variable rotation speed from 0-600 rpm.

3. Safety Instructions

Please read and understand all of the following instructions, prior to using this tool. Failure to do so, may void the warranty.

DANGER!

Class IIIa Laser Product
Max. Power Output: $\leq 5\text{mW}$
Wavelength: 640nm-660nm

**THIS TOOL EMITS LASER RADIATION.
DO NOT STARE INTO BEAM.
AVOID DIRECT EYE EXPOSURE.**



ATTENTION



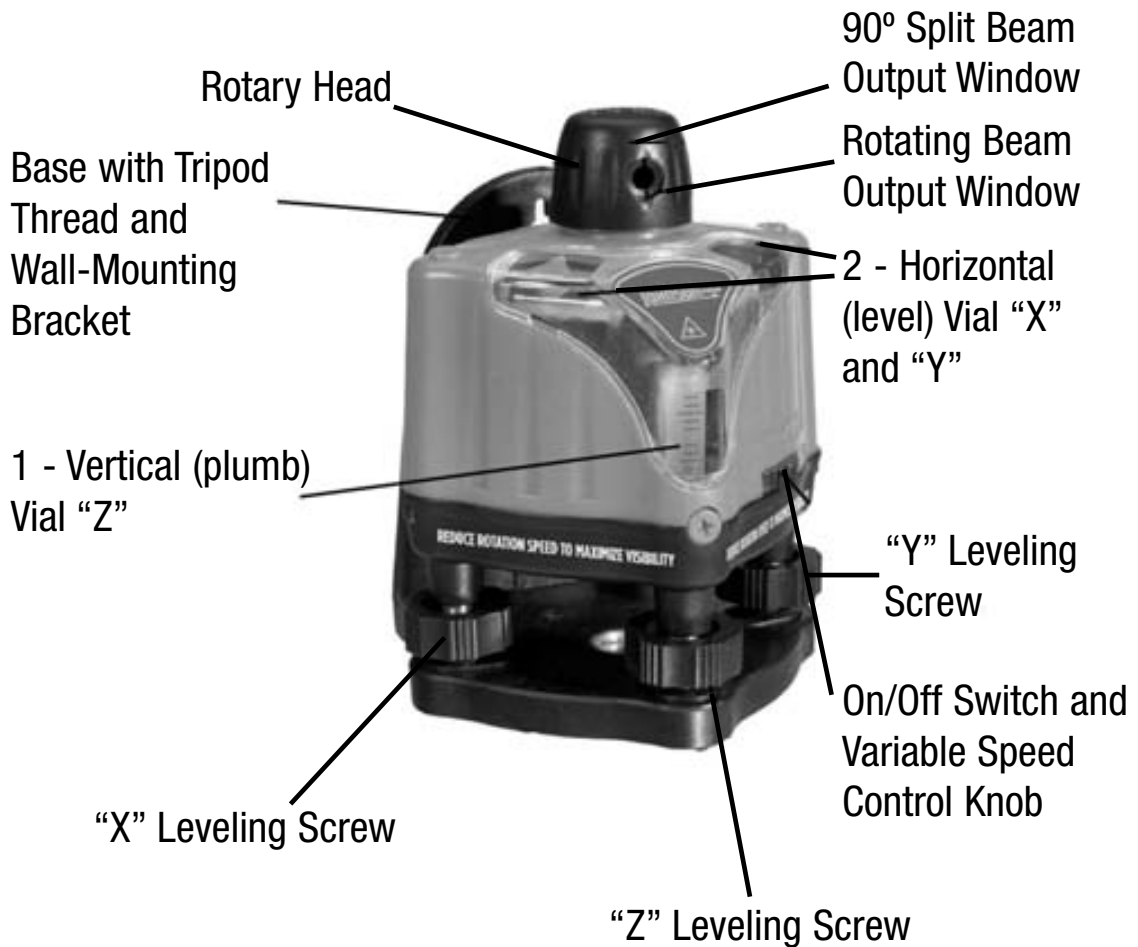
IMPORTANT

- Read all instructions prior to operating this laser tool. Do not remove any labels from tool.
- Do not stare directly at the laser beam.
- Do not project the laser beam directly into the eyes of others.
- Do not set up laser tool at eye level or operate the tool near a reflective surface as the laser beam could be projected into your eyes or into the eyes of others.
- Do not place the 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 tool in explosive environments, i.e. in the presence of gases or flammable liquids.
- Keep the laser tool out of the 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 not in use or left unattended for a period of time.
- Remove the batteries when storing the tool for an extended time (more than 3 months) 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 this tool, warranty will be void.
- Use only original Johnson® parts and accessories purchased from your Johnson® authorized dealer. Use of non-Johnson® parts and accessories will void warranty.

4. Location/Content of Warning Labels



5. Location of Part/Components





6. Operating Instructions

IMPORTANT: It is the responsibility of the user to verify the calibration of the instrument before each use.

Battery Installation

Unscrew the cover on the back top of the unit and insert four (4) AA batteries (included). Follow polarity on housing.

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

Tripod Set-up

Open up 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. Tightly screw the unit and tripod together.

The rotary laser can be used either with the tripod or independently.

Leveling the Laser

Bring the unit into a level position by means of the horizontal “X” and “Y” adjusting screws (top mounted vials for horizontal application) and one (1) vertical “Z” adjusting screw (one side mounted vial for vertical application).

To obtain accurate measures, use the leveling screws found on the mounting base and ensure that the bubble in each vial is perfectly centered.





7. Using the Product

To turn on, rotate the on/off and variable speed switch in the direction indicated by the arrow. Use this on/off and variable speed control knob to create a single laser point or an intermittent line or a continuous line. **The slower the rotation, the more visible the beam will be.** If used with an optional detector, use fastest rotation speed.

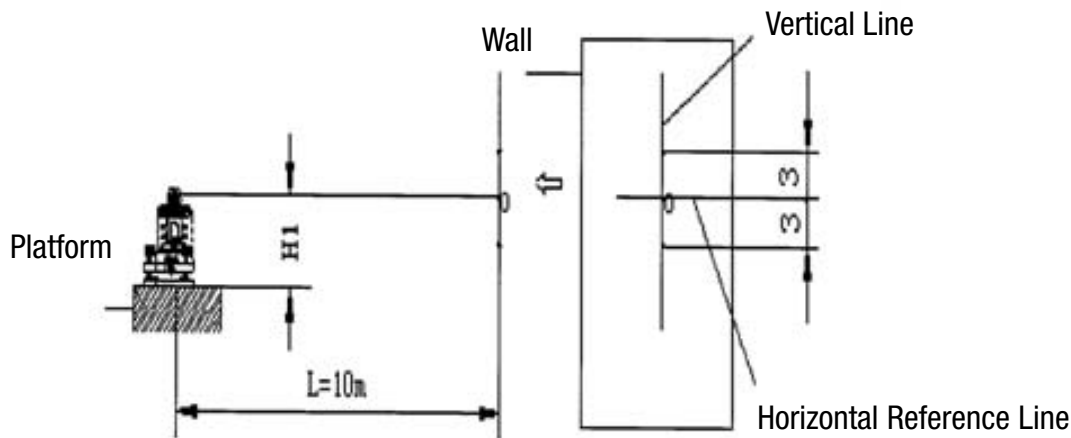
Note: Due to the 360° rotating feature of the laser beam, extra care must be taken to avoid direct contact with the eyes.



8. Self-Check & Fine Calibration

IMPORTANT: It is the responsibility of the user to verify the calibration of the instrument before each use.

Checking for Accuracy:



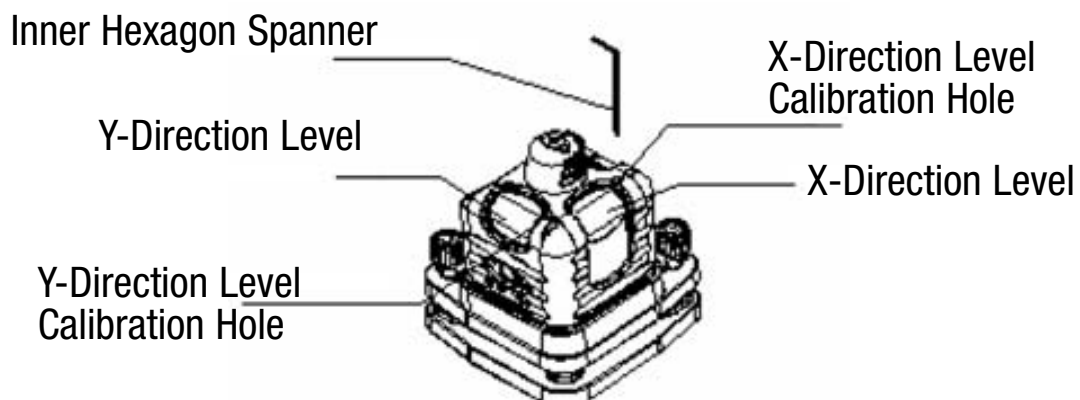
1. Start by placing the laser 1' away from a wall (near wall), and at least 20' from a wall (far wall).
2. Align the laser so that one axis (vial) points to both walls.
3. Turn the laser on and adjust the thumbscrews until the unit is level in both the X and Y axis.
4. Make a mark where the laser hits the near wall (wall #1), and then the same for the far wall (wall #2).
5. Next, move the laser to 1' next to the far wall, and ensure it is in the same axis.
6. Level the laser, and then adjust the height so that the laser is level and hits the mark you made on the far wall (wall #2). You may need to re-level to achieve this.

7. Then walk over to the original near wall (wall #1) and measure the difference between the original mark and the laser line. If the value is more than 1/8" at 30', then calibration is required.
8. Ensure accuracy is verified for both the X and Y axis.

Note: X and Y axis are determined by the end user, either vial can be considered X/Y.

Adjusting Accuracy:

1. Measure the difference between the original near wall mark (wall #1) and where the laser is hitting the near wall.
2. Walk back to the far wall (wall #2) and adjust the laser so that it is halfway between the two near wall marks (pencil mark and laser mark).
3. Next, remove the screw cap for the vial for the axis you are working with, and using a 2.5mm hex tool, adjust the vial so that it appears level.





9. Technical Specifications

Laser Wavelength	650nm±10nm
Laser Classification	Class IIIa
Maximum Power Output	≤5mW
Accuracy	±1/8"/30 ft. (±0.3mm/m)
Interior Range	Up to 200 ft. (60m) diameter depending upon light conditions
Power Supply	4 "AA" alkaline batteries (included)
Battery Life	Approx. battery life 25 hours continuous use
Dimensions	4.75" x 4.75" x 6.125" (120 x 120 x 156mm)
Weight	1.35 lbs (0.6Kg)
Working Temperature	14°F to 113°F (-10°C to +45°C)
Center screw thread	5/8" – 11
Rotation Speed	0-600 rpm
IP Protection Class	43



10. Application Demonstrations



Ceiling installation



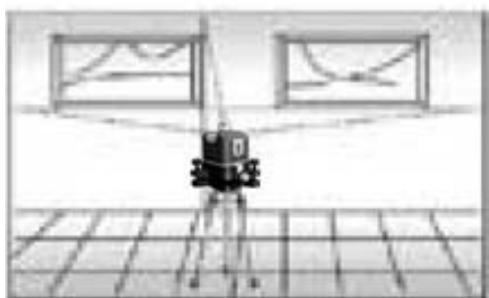
Anti-static flooring installation



Window installation



Baseboard installation



Hanging pictures



Dormer installation



11. Care and Handling

- This laser unit is a precision tool that must be handled with care.
- Avoid exposing unit to shock vibrations and extreme temperatures.
- Before moving or transporting the unit, make sure that the unit is turned off.
- Remove the batteries when storing the unit for an extended time (more than three months) to avoid damage to the unit should the batteries deteriorate.
- Always store the unit in its case when not in use.
- Avoid getting the unit wet.
- Keep the laser unit dry and clean, especially the laser output window. Remove any moisture or dirt with a soft, dry cloth.
- Do not use harsh chemicals, strong detergents or cleaning solvents to clean the laser unit.

12. Product Warranty

Johnson Level & Tool offers a three year limited warranty on each of its products. You can obtain a copy of the limited warranty for a Johnson Level & Tool product by contacting Johnson Level & Tool's Customer Service Department, as provided below, or by visiting our web site at www.johnsonlevel.com. The limited warranty for each product contains various limitations and exclusions.

Do not return this product to the store/retailer or place of purchase.

Non-warranty repairs and course calibration must be done by an authorized Johnson® service center or Johnson Level & Tool's limited warranty, if applicable, will be void and there will be NO WARRANTY. Contact one of our service centers for all non-warranty repairs. A list of service centers can be found on our web site at www.johnsonlevel.com or by calling our Customer Service Department. Contact our Customer Service Department for Return Material Authorization (RMA) for warranty repairs (manufacturing defects only). Proof of purchase is required.





NOTE: The user is responsible for the proper use and care of the product. It is the responsibility of the user to verify the calibration of the instrument before each use.

For further assistance, or if you experience problems with this product that are not addressed in this instruction manual, please contact our Customer Service Dept.

In the U.S., contact Johnson Level & Tool's Customer Service Department at 888-9-LEVELS.

In Canada, contact Johnson Level & Tool's Customer Service Department at 800-346-6682.

13. Warranty Registration

Enclosed with this instruction manual you will find a warranty registration card to be completed for your product. You will need to locate the serial number for your product that is located on the bottom of the unit. **PLEASE NOTE THAT IN ADDITION TO ANY OTHER LIMITATIONS OR CONDITIONS OF JOHNSON LEVEL & TOOL'S LIMITED WARRANTY, JOHNSON LEVEL & TOOL MUST HAVE RECEIVED YOUR PROPERLY COMPLETED WARRANTY CARD AND PROOF OF PURCHASE WITHIN 30 DAYS OF YOUR PURCHASE OF THE PRODUCT OR ANY LIMITED WARRANTY THAT MAY APPLY SHALL NOT APPLY AND THERE SHALL BE NO WARRANTY.**





14. Accessories

Johnson® accessories are available for purchase through authorized Johnson® dealers. Use of non-Johnson® accessories will void any applicable limited warranty and there will be NO WARRANTY. If you need any assistance in locating any accessories, please contact our Customer Service Department.

In the U.S., contact Johnson Level & Tool's Customer Service Department at 888-9-LEVELS.

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