



Self-Leveling Cross-Line Laser Level
Model No. 40-6620



Instruction Manual

Congratulations on your choice of this Self-Leveling Cross-Line Laser Level. We suggest you read this instruction manual thoroughly before using the instrument. Save this instruction manual for future use.

This small and economical self-leveling cross-line laser level was specially designed to be easily carried. It is widely used as a layout tool for indoor applications. Beam visibility depends upon lighting conditions in the work area.

This is a Class II laser tool and is manufactured to comply with CFR 21, parts 1040 .10 and 1040 .11 as well as international safety rule IEC 285.

Table of Contents

1. Kit Contents	8. Self-Check and Calibration
2. Features and Functions	9. Technical Specifications
3. Safety Instructions	10. Application Demonstrations
4. Location/Content of Warning Labels	11. Care and Handling
5. Location of Parts/Components	12. Product Warranty
6. Operating Instructions	13. Product Registration
7. Using the Product	14. Accessories

1. Kit Contents

Description	Qty.
Self-leveling Cross Line Laser Level	1
Multi-Functional Mount	1
"AA" Alkaline Batteries	3
Mounting Strap	1
Magnetic Target	1
Instruction Manual with Warranty Card	1
Soft Sided Carrying Case	1

2. Features and Functions

- Able to project one cross-line beam, consisting of one horizontal line and one vertical line.
- Magnetic dampening compensation system.
- Laser flashes and sounds audible alarm when beyond leveling tolerance.
- Multi-functional magnetic mount is included to allow hanging on wall, attach to metal, or connect to tripod (5/8" or 1/4").
- Pocket size brings more convenient portability and operation.
- Includes adjustable strap for attachment to pipe or conduit.

3. Safety Instructions

Please read and understand all of the following instructions, prior to using this tool. Failure to do so, may result in bodily injury.



ATTENTION

IMPORTANT

- Read all instructions prior to operating this laser tool. Do not remove any labels from 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 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, serious injury may result.
- Use only original AccuLine Pro™ parts and accessories purchased from your AccuLine Pro authorized dealer. Use of non-AccuLine Pro parts and accessories will void warranty.

CAUTION!

Class II Laser Product
Max. Power Output: $\leq 1\text{mW}$
Wavelength: 625-645nm

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



CAUTION: If using this product with any type of tinted goggles, please note safety warning below.

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.

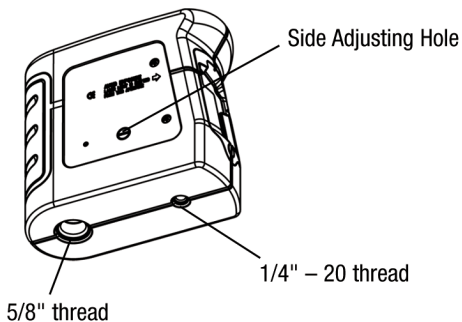
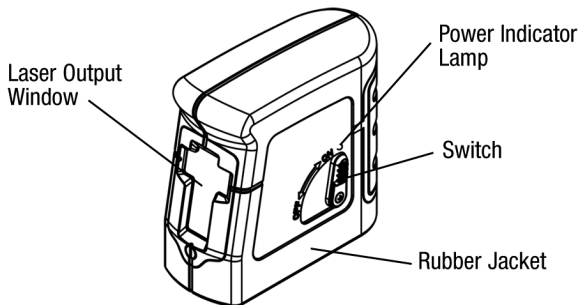


4. Location/Content of Warning Labels

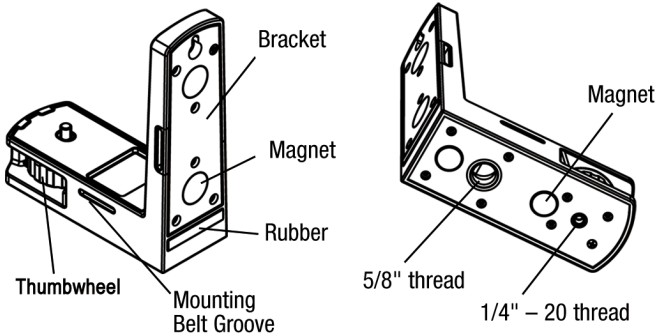


5. Location of Part/Components

Instrument



Special Base



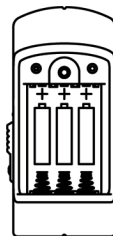
6. Operating Instructions

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

Battery Installation

Note: Always check to be sure that the on/off switch is in the off position before removing and replacing batteries.

1. Open the battery-box cover and put in three "AA" batteries according to the illustrated polarity direction
2. Place the instrument on a platform or a tripod.
3. Power on the instrument, and a cross line will be projected.



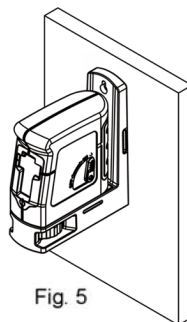
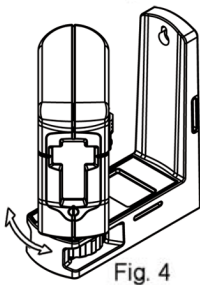
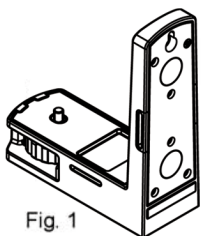
Note:

- Pay attention to the polarity of the batteries.
- Do not charge alkaline batteries to avoid explosion.
- Used (discharged) batteries are hazardous waste and should be disposed of properly.

7. Using the Product

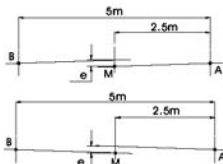
This base was specially designed for more extensive environment adaptability of the instrument. With the help of the base, the instrument can be connected with a standard tripod by 5/8" thread and camera tripod by 1/4" – 20 thread. The instrument can be freely rotated or elevated up and down within the range of 0.591" (15mm). With the use of its base, the instrument can also be hung on the wall, attached to a metal plate, or bound on staff or pipe with use of its strap.

1. As shown in fig. 1, take out the special base.
2. As shown in fig. 2, install the instrument on the base by adjusting the connecting knob.
3. As shown in fig. 3 and fig. 4, the instrument can be rotated on the base.
4. As shown in fig. 5, the instrument can be hung on the wall or column by a nail.



8. Self-Check and Calibration

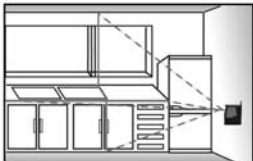
1. Set up a tripod 16 ft. (5m) away from a wall.
2. Install the unit on the tripod, and then make it face the wall.
3. Power on the instrument to project a cross line on the wall. Mark A at its center point.
4. Mark M on the horizontal line, which is 9 ft. (2.5m) away from A.
5. Turn the instrument until the center point of the cross line is 16 ft. (5m) away from A, and then mark B at the center point of the cross line.
6. Measure the distance e between the horizontal line and M.
7. If $e > 0.118"$ (3mm), the accuracy exceeds tolerance, reference section 12 of this document.



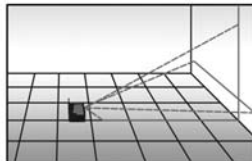
9. Technical Specifications

Laser Wavelength	635nm±10
Laser Classification	Class II
Maximum Power Output	≤1mW
Accuracy	±1/8" / 33 ft. (±3mm/10m)
Working Range	Maximum 100 ft. (30m) depending upon light conditions
Self-Leveling Range	Backward to forward: 5° Leftward to rightward: 3°
Power Supply	3 "AA" alkaline batteries
Dimensions	2" x 5-1/4" x 6-1/4" (51x133x159 mm)
Weight	2 lbs. (0.93Kg)
Working Temperature	14°F to 113°F (-10°C to +45°C)
Center Screw Thread	5/8" - 11; 1/4" - 20

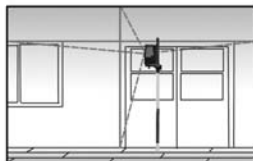
10. Application Demonstrations



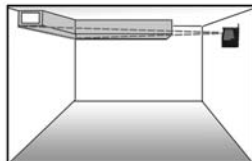
Reference for fixing cabinets



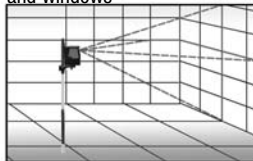
Reference for laying tile



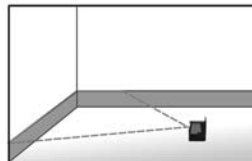
Reference for fixing doors
and windows



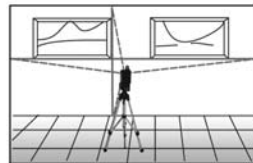
Reference for setting pipelines



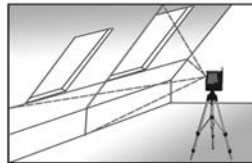
Reference for installing partitions



Reference for installing baseboards



Reference for hanging pictures



Reference for 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 and is in the locked position. Failure to lock before transport or storage may cause damage to the units inner mechanisms and void warranty.
- 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 one year limited warranty on each 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 us online 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. Required repair/calibration must be done by an authorized AccuLine Pro™ service center or Johnson Level & Tool's limited warranty, if applicable, will be void and there will be NO WARRANTY. Contact our Customer Service Department to obtain a Return Material

Authorization (RMA) number for return to an authorized service center.
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 Department.

In the U.S., contact Johnson Level & Tool's Customer Service Department at 800-563-8553.

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

13. Product Registration

Enclosed with this instruction manual you will find a warranty card to be completed for product warranty registration. Product warranty registration can also be completed online at our web site www.johnsonlevel.com. You will need to locate the serial number for your product that is located inside the battery cover. **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 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

AccuLine Pro™ accessories are available for purchase through authorized AccuLine Pro dealers. Use of non-AccuLine Pro 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.

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