





Thank you for purchasing this Johnson rotary laser! This laser features simple operation in both horizontal (self-leveling) and vertical (manually leveling) planes and is ideal for jobsites such as residential and small commercial grading and excavation up to 800' in diameter (11 acres).

This tool features:

- Class IIIa laser
- 3/16" @ 50' accuracy
- 800' range (diameter)
- Manual vertical mode
- Includes laser detector, tripod and grade rod
- Everything you need to grade or level your jobsite, indoors or out!



## GETTING STARTED

1. Insert 6 fresh AA alkaline batteries (included) into the laser.
2. Mount the laser on a tripod or other stable mounting surface in either the horizontal or vertical position.
3. For horizontal use, unlock the pendulum and press . The laser will self-level and rotate. If the laser is out of its self-leveling range, it will stop rotating and beep. **NOTE: The laser will NOT operate in the horizontal position if the pendulum lock is engaged. To disengage it, rotate the knob clockwise.**
4. For vertical operation, keep the pendulum in the **locked** position and adjust the manual leveling knob until the level vial indicates that the laser is level. Then power on the laser by pressing . (See VERTICAL OPERATION section for further detail).
5. Adjust your rotational speed by pressing . High speeds are recommended for use with a laser detector; low speeds improve visibility when working indoors without a detector.
6. When finished, power off the laser by pressing  and ensure the pendulum lock is engaged.

## INSERTING BATTERIES

This laser requires 6xAA alkaline batteries (included).

1. Remove the battery cover screw on the bottom of the laser, and remove any existing batteries.
2. Install 6xAA batteries according to the polarity indicated on the laser.
3. If you will not use the laser for a long time (three months or longer), it is recommended to remove the batteries to prevent drainage and/or corrosion.



## USING THE PENDULUM LOCK

The pendulum lock is located on the left side of the laser. Rotate it clockwise to unlock the pendulum and counterclockwise to lock the pendulum.



- **LOCK** the pendulum for transportation and vertical operation.
- **UNLOCK** the pendulum for horizontal operation.
- Note that **UNLOCKED** is also called "ON," indicating the laser can be powered on in horizontal operating mode.

## VERTICAL OPERATION

To operate the laser in vertical mode:

1. Attach the vertical bracket.
2. Keep the pendulum **LOCKED**. This will stabilize the pendulum.
3. Level the laser by turning the vertical leveling screw (located on the vertical mounting base) until the bubble is centered within the vial.



## USING THE INCLUDED ACCESSORIES

### LASER DETECTOR

This laser system includes Johnson's model 40-6705 laser detector, used for locating the laser beam when your eye can't see it, such as outdoors or over large distances. This laser is also compatible with accessory detectors such as the machine-mounted detector (model 40-6791) designed for mounting to skid steers, excavators and other equipment.

1. Press to power the detector on.
2. Pass the detector through the laser beam until the LED's light and it begins to beep.
  - Move the detector **UP** to find grade when the top LED is lit.
  - Move the detector **DOWN** to find grade when the bottom LED is lit.
5. When the detector is on grade, the beep will become a solid tone and the center green LED will illuminate.



40-6705

### LASER TARGET & ENHANCEMENT GLASSES

This laser system includes a magnetic target and red-beam laser enhancement glasses. Both accessories help to improve the visibility of the laser beam.

The red target is ideal for completing indoor projects such as drop ceilings. Attach the magnetic target directly to the drop ceiling track. It reflects the red light, making it more visible.

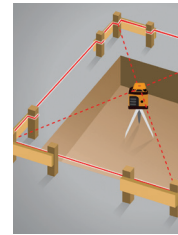


Laser enhancement glasses help highlight the red laser beam, making it appear more visible when working indoors. **NOTE:** These glasses are NOT a substitute for safety glasses and do NOT make it safe to stare directly into the laser source.



## ROTARY LASER APPLICATIONS

Your new rotary laser is a versatile tool. You will constantly find new uses around your jobsite where your rotary will help you complete your work faster, safer and smarter. Complete your leveling tasks with ease, and complete layout work in record time with your new laser.



### FENCING, POST SETTING & EXCAVATION

Set common fence post heights, determine excavation depth, layout concrete formwork and complete square alignment work using the laser's 90° split beam.



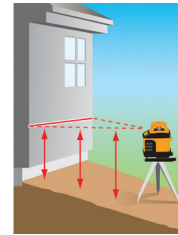
### DROP CEILINGS

Rotary lasers are the perfect tool for drop ceilings. Mount a rotary just below your ceiling, and use a magnetic laser target or detector to find the beam.



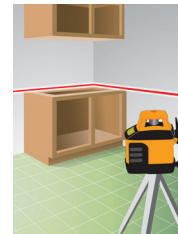
### PLUMB & ALIGN WALLS

Use the rotary in vertical mode with the 90° split beam to lay out wall locations at perfect right angles. When erecting the walls, use the laser to ensure the walls are plumb, and for setting drywall track.



### GRADING

The conventional use for rotary lasers, you can easily level or slope large areas of land for proper drainage. Pair with a grade rod and a detector, or use a machine mounted detector like Johnson's 40-6791, to simplify large grading jobs.



### CABINETS, WAINSCOTING & FINISH WORK

Use the laser to lay out kitchen cabinets (both horizontal and vertical alignment), shelving, wainscoting, chair rails and more. You can also install tile on walls and floors, and transfer layout lines from floor to ceiling.

