

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 (up to 11 acres).

This tool features:

- Class IIIa laser
- 1/4" @ 100' accuracy
- 800' range (diameter)
- Manual vertical mode
- Some models include a laser detector
- 99-026K includes a rechargeable NiMH battery



## GETTING STARTED

1. Fully charge the NiMH battery or insert 4 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 counterclockwise.**
4. For vertical operation, keep the pendulum in the locked position and adjust the manual leveling foot until the level vial indicates that the laser is level, then power on the laser by pressing .
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

Model 99-026K includes a NiMH battery pack and charger for convenience but can also operate on AA batteries.

1. To insert the NiMH battery pack, loosen the battery cover screw and insert both NiMH battery packs. Next, plug in the battery connector to the pin terminals located between the batteries. The pin terminals are keyed to prevent erroneous installation.
2. All other laser models require 4xAA batteries (included). Loosen the battery cover screw and remove any existing batteries. Install 4xAA 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. Mount the laser vertically to a tripod or other stable surface
2. Keep the pendulum **LOCKED**. This will stabilize the pendulum.
3. Level the laser by turning the vertical leveling screw (located below the operation panel) until the bubble is centered within the vial.



## USING THE LASER DETECTOR

Laser detectors locate the laser beam when you otherwise can't see it with your naked eye, such as when working outdoors, in high ambient light, and over long distances.

Models 40-6516, 99-002K, 99-006K, and 99-026K include Johnson's 40-6700 detector, and model 40-6517 includes Johnson's 40-6705 detector. All models are compatible with all Johnson red beam rotary laser detectors, including the machine-mounted detector Model 40-6791 that mounts to skid steers, excavators and other equipment.

### HOW TO USE THE LASER DETECTOR

1. Specifics and features vary slightly with each model - consult your manual for the specifics of your detector.
2. Press (40-6700) or (40-6705) to power the detector on.
3. Adjust the volume by pressing (40-6700 only).
4. Adjust the accuracy by pressing (40-6700 only). Use fine accuracy for critical work (+/-0.012") and coarse accuracy (+/-0.030") for rough work or quickly locating the grade position.

**NOTE:** Fine accuracy will show the symbol on the LCD.

5. Pass the detecting window through the beam. The detector will beep (if volume is on), and the LCD arrow or LEDs will indicate the direction you need to move the detector to locate the beam.
6. When the detector is on grade, the beep will become a solid tone, and the LCD arrow will become a solid line in the center of the LCD (40-6700), or the green LED will illuminate (40-6705) to indicate you are on grade.



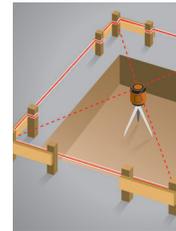
40-6700



40-6705

## 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.



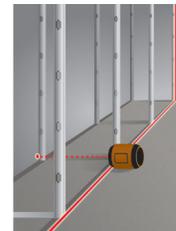
### FENCING, POST SETTING & EXCAVATION

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



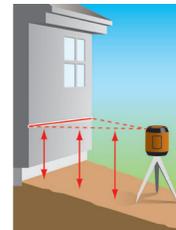
### DROP CEILINGS

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.



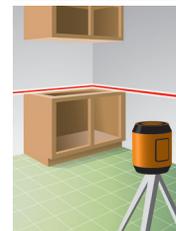
### PLUMB & ALIGN WALLS

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.

