

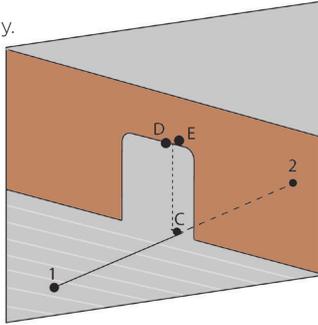


## CHECKING ACCURACY

Before starting any critical work, check your laser for accuracy.

### PLUMB LINE ACCURACY:

- Position laser at point 1 10' from a doorway.
- Mark beam at point 1.
- Mark beam at point 2 20' away.
- Mark points C on the floor under doorway and D on doorway.
- Move laser near point 2. Aim the beam through point 2, C and point 1. Mark point E next to D on doorway.
- If the distance D to E  $< 1/16"$  for a 10' doorway, your plumb accuracy is within specification.



### HORIZONTAL LINE ACCURACY:

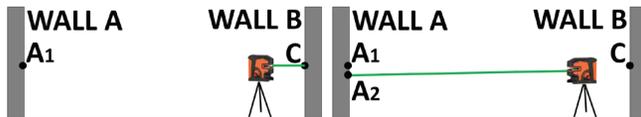
Check accuracy using two walls 15' apart.



- 1:** Set laser next to Wall A. Mark beam height on Wall A as point A1.



- 2:** Rotate laser 180°. Mark beam height on Wall B as point C.



- 3:** Set laser next to Wall B and adjust beam to height C.



- 4:** Rotate laser 180°. Mark beam height on Wall A as A2.

- 5:** Measure the vertical distance between A1 and A2. If this distance is  $< 1/16"$  at 20', your horizontal accuracy is within specification.

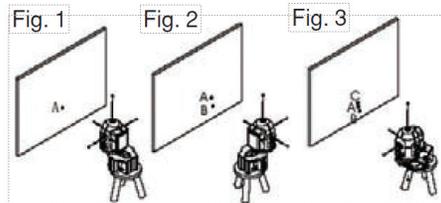
**NOTE:** If your laser needs non-warranty service or calibration, return it to a Johnson authorized service center for repair.

### PLUMB DOT ACCURACY:

1. With the laser on its base and set on a flat platform, turn the laser on.
  2. Mark the down beam location and use this as your reference point.
  3. Locate the up beam and mark its point as 'A'.
  4. Rotate the laser 180° on its base, realigning the down beam (reference point) and mark the up beam as point 'B'.
  5. Rotate the laser 90° and mark the up beam as 'C'.
  6. Rotate the laser 180° and mark the up beam as 'D'.
- Note:** Always have the down beam in the same location.
7. Connect the four dots. Connect A to B, and C to D.
  8. If the center point "E" is  $< 1/8"$  at 50' or  $1/16"$  at 25' from points A, B, C and D, accuracy is within specification

### HORIZONTAL DOT ACCURACY:

1. As shown in Fig. 1, set the laser on a tripod or flat platform 50' from an upright wall. Aim the front beam at the face of the wall. Mark the point projected on the wall by front beam as 'A'.
2. Turn the laser clockwise (Fig. 2) to make the point projected by the right laser beam on the same exact line as point 'A', and then mark the point as 'B'.
3. Turn the laser 180° (Fig. 3) to make the point projected by the left laser beam on the same exact line as point 'A', and then mark the point as 'C'.
4. The vertical distance between points A, B and C should not exceed  $1/8"$ .
5. If distances between points A, B and C is  $< 1/8"$  at 50', accuracy is within specification.



### TROUBLESHOOTING

- **Tool does not power on or remain on:** Replace batteries. Check battery polarity.
- **Laser flashing or emitting audible tone:** Laser is outside of its self-leveling range.
- **Battery light flashes, laser appears dim:** The batteries have depleted. Replace or recharge the batteries.
- **Laser does not self-level:** Unlock the pendulum. See PENDULUM LOCK.
- **Laser is not detectable by a laser detector:** Ensure pulse mode is enabled. Ensure the detector is compatible with the laser's wavelength and is meant to detect pulsed laser lines. Contact Johnson or your local Johnson dealer for help in choosing a suitable laser detector to use with your laser.

### SPECIFICATIONS

<b>Laser</b>	Class IIIa, $< 5mW$ , 520nm
<b>Accuracy</b>	$\pm 1/8"$ @ 50'
<b>Interior Range</b>	Up to 200'
<b>Self-Leveling Range</b>	$\pm 3^\circ$
<b>Power Supply</b>	Li-ion (included) or 4xAA (not included)
<b>Battery Life</b>	14 hr (cross-line only)* 36 hr (dots only)*
<b>Operating Temp</b>	14°F to 113°F
<b>IP Rating</b>	IP54
<b>Weight</b>	1.6 lb
<b>Dimensions</b>	5 1/4" x 2 1/2" x 5 1/4"

\*As tested with included Li-Ion Battery

### PRODUCT REGISTRATION

Please register your product within 30 days of purchase. Registering ensures we have your information on file for warranty service even if you lose your receipt and lets us contact you if there is ever a product recall. We will never sell your information and will only send you marketing information if you opt-in.

To register, scan or click:

[www.johnsonlevel.com/register](http://www.johnsonlevel.com/register)



### PRODUCT WARRANTY

Johnson Level & Tool offers a three-year limited warranty on this product. You can obtain a copy of this warranty on our website or by contacting our customer service department. The limited warranty contains various limitations and exclusions.

**Do not return this product to the place of purchase.**

Non-warranty repairs and calibration must be done by an authorized Johnson service center or the warranty will be void. A service center list can be found on our website.

Contact us for an RMA number before sending any product in for service. Proof of purchase is required for warranty service.

**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. If you experience problems with this product, please contact us

Email: [service@johnsonlevel.com](mailto:service@johnsonlevel.com)

On the Web: [www.johnsonlevel.com](http://www.johnsonlevel.com)

In the US: 888-953-8357

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