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**INSTRUCTION MANUAL**  
**GUIDE D'UTILISATION**  
**MANUAL DE INSTRUCCIONES**  
**MANUAL DE INSTRUÇÕES**

INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA DE GARANTÍA.  
ADVERTENCIA: LÉASE ESTE INSTRUCTIVO ANTES DE USAR EL PRODUCTO.

The DEWALT logo is rendered in a large, bold, black, sans-serif font. The letters are thick and blocky. A registered trademark symbol (®) is located at the bottom right of the letter 'T'. The logo is centered horizontally and is flanked by two thick, solid black horizontal bars, one above and one below the text.

**DW08301**  
**Self-Leveling 3 Beam Laser Pointer**  
**Pointeur laser autonivelant 3 faisceaux**  
**Puntero láser de 3 rayos de autonivelación**  
**Apontador-Laser 3 Autonivelante**

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FIG. 1

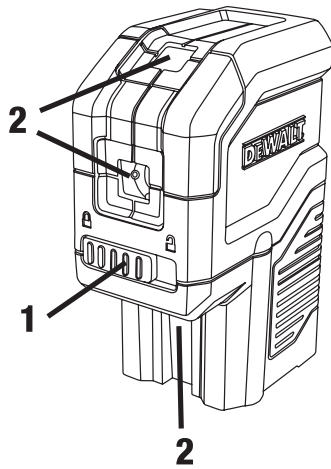


FIG. 2

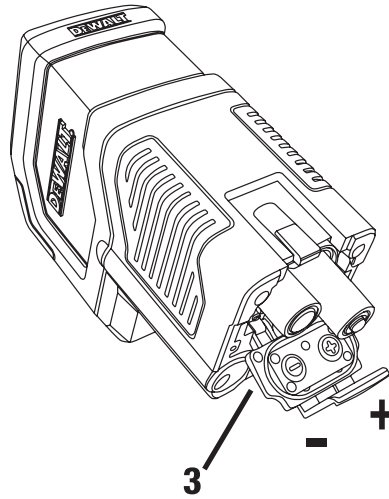


FIG. 3

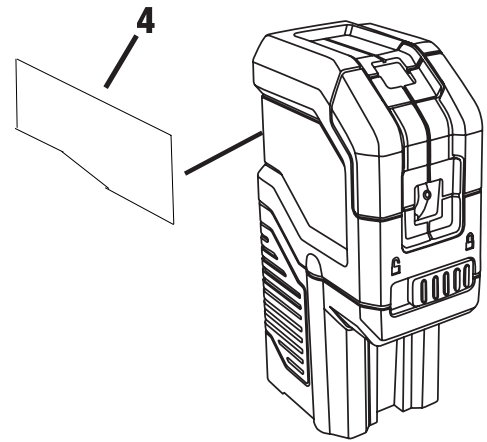


FIG. 4

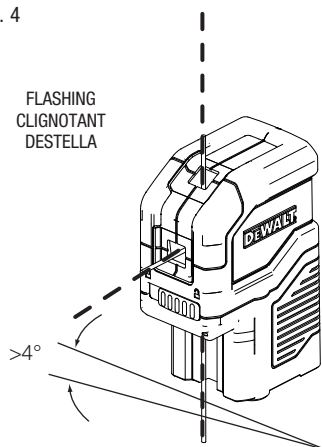


FIG. 5

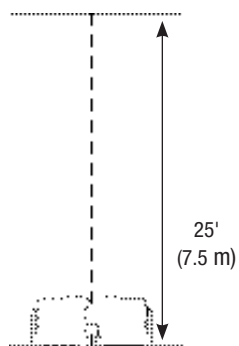
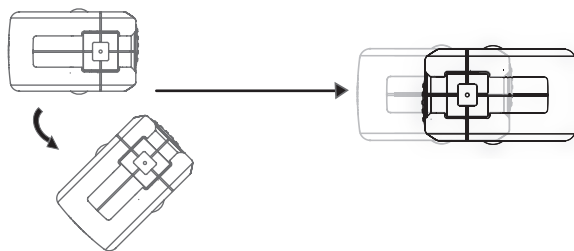


FIG. 6



1. Power Switch
2. Laser Apertures
3. Battery Compartment
4. Label information

Figure 7

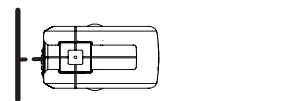


Figure 8

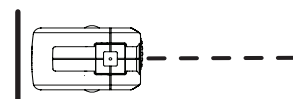


Figure 9

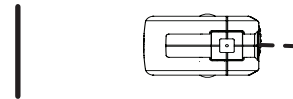
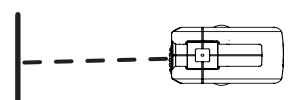



Figure 10



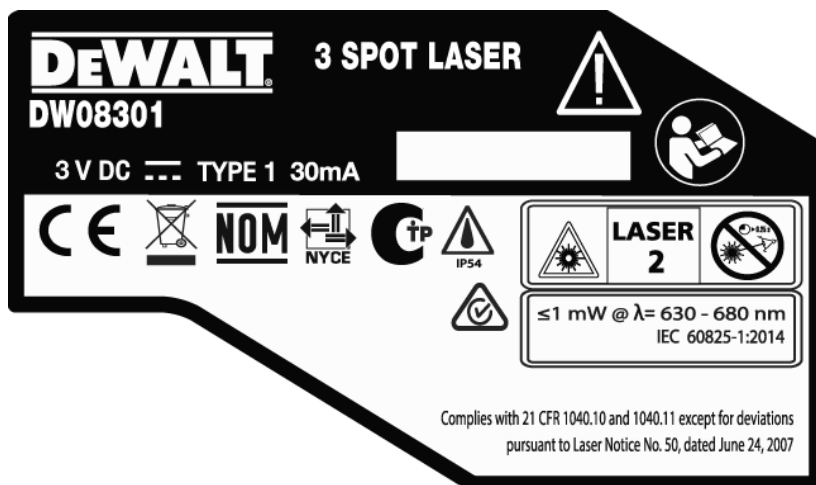
IF YOU HAVE ANY QUESTIONS OR COMMENTS ABOUT THIS OR ANY DeWALT TOOL, CALL US TOLL FREE AT: 1-800-4-DeWALT (1-800-433-9258).

## Safety

 **WARNING:** To reduce the risk of injury, read the safety manual provided with your product or access it online at [www.DeWALT.com](http://www.DeWALT.com). Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### WARNING LABELS

For your convenience and safety, the following label is on your laser.



**⚠ CAUTION: LASER RADIATION - DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCT.**

### LASER INFORMATION

The DW08301 laser level is a class 2 laser product and complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007.

### PRODUCT OVERVIEW

The DW08301 laser level is a self-leveling laser tool that can be used for horizontal (level) and vertical (plumb) alignment and square alignment. This tool comes fully assembled and has been designed with features that allow for quick and easy set-up. Please read and understand all instructions within this instruction manual in addition the Safety Manual prior to use.

### Specifications

SPECIFICATIONS	
Light Source	Semiconductor laser diode
Laser Wavelength	630–680 nm visible
Laser Power	<1.0 mW (each beam) CLASS 2 LASER PRODUCT
Working Range (Dot)	100ft (30 m)
Accuracy* (Horizontal)	±1/8" @30ft ( ± 3mm/10m )
Accuracy* (Up Beam)	±1/8" @30ft ( ± 3mm/10m)
Accuracy* (Down Beam)	± 1/4" @ 30' ( ± 6 mm @ 10 m)
Indicators	Flashing Laser: tilt range exceeded
Power Source	2 AA size batteries (3.0 V DC)
Operating Temperature	14 °F to 131°F (-10 °C to 55 °C)
Storage Temperature	-5 °F to 158 °F (-20 °C to 70 °C)
Environmental	Water resistant

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## Keypad, Modes and LED.

### Power switch.

The Power ON/OFF switch is located on the front of the tool as shown in figure 1 (A). When the switch (A) is in the OFF/LOCKED position, the unit will remain off and the pendulum will be locked.

When the on/off switch (A) is in the ON/UNLOCKED position, the unit will be powered ON, the pendulum will be released from the locked position and self level.

### Out of Level Indicator

The DW08301 is equipped with an out of level indicator on the keypad as shown in Figure 2. When the tilt range ( $> 4^\circ$  tilt) has been exceeded the laser beam will flash. The flashing beam indicates that the tool IS NOT LEVEL (OR PLUMB) AND SHOULD NOT BE USED FOR DETERMINING OR MARKING LEVEL (OR PLUMB). Try repositioning the laser on a more level surface.

## Batteries & Power

Your laser tool requires 2 x AA batteries. (B)

Use only new, high-quality batteries for best results.

- Ensure batteries are in good working condition. If the low battery indicator light is flashing, the batteries need replacement.
- To extend battery life, turn laser off when not working with or marking the beam.

## Set Up

### LEVELING THE LASER

This tool is self-leveling. It is calibrated at the factory to find plumb as long as it is positioned on flat surface within  $4^\circ$  of level. As long as the tool is properly calibrated, no manual adjustments must be made.

To ensure the accuracy of your work, check to make sure your laser is calibrated often. See **Field Calibration Check**.

- Before attempting to use the laser, make sure it is positioned securely, on a smooth, flat surface.
- Always mark the center of the dot or pattern created by the laser.
- Extreme temperature changes may cause movement of internal parts that can affect accuracy. Check your accuracy often while working. See **Field Calibration Check**.
- If the laser has been dropped, check to make sure your laser is calibrated. See **Field Calibration Check**.

## OPERATION

### TURNING THE LASER ON AND OFF (FIG. 3)

- With the laser off, place it on a stable, flat surface. Turn the laser on by sliding on/off switch (A) to the ON/UNLOCKED position.
- To turn the laser off, slide the the on/off switch (A) to the locked position.

The DW08301 is equipped with a locking pendulum mechanism. This feature is only activated when the laser is switched off.

## USING THE LASER

The beams are level or plumb as long as the calibration has been checked (see **Field Calibration Check**) and the laser beam is not flashing (see **Out of level Range Indicator**).

The tool can be used to transfer points using any combination of the three beams.

### OPERATING TIPS

To ensure the accuracy of your work, check to make sure your laser is calibrated often. See **Field Calibration Check**.

- Before attempting to use the laser, make sure it is positioned securely, on a smooth, flat surface.
- Always mark the center of the dot or pattern created by the laser.
- Extreme temperature changes may cause movement of internal parts that can affect accuracy. Check your accuracy often while working. See **Field Calibration Check**.
- If the laser has been dropped, check to make sure your laser is calibrated. See **Field Calibration Check**.

### USING THE LASER WITH ACCESSORIES

The laser is equipped with  $1/4"$  x 20 female threads on the bottom of the unit. These threads may be used to accommodate current or future DeWALT accessories. Only use DeWALT accessories specified for use with this product. Follow the directions included with the accessory.

**▲ WARNING:** Since accessories, other than those offered by DeWALT, have not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only DeWALT recommended accessories should be used with this product.

Recommended accessories for use with your tool are available at extra cost from your local dealer or authorized service center. If you need assistance in locating any accessory, please contact DeWALT Industrial Tool Co., 701 East Joppa Road, Towson, MD 21286, call 1-800-4-DeWALT (1-800-433-9258) or visit our website: [www.DEWALT.com](http://www.DEWALT.com).

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## FIELD CALIBRATION CHECK

### CHECKING ACCURACY – PLUMB (FIG. 5–6)

Checking the plumb calibration of the laser can be most accurately done when there is a substantial amount of vertical height available, ideally 25' (7.5 m), with one person on the floor positioning the laser and another person near a ceiling to mark the dot created by the beam on the ceiling (Fig. 5). It is important to conduct a calibration check using a distance no shorter than the distance of the applications for which the tool will be used.

1. Start by marking a point on the floor.
2. Place the laser on the floor so that the down dot beam is centered on the point marked on the floor.
3. Allow time for the laser to settle to plumb and mark the center of the dot created by the up beam.
4. Turn the laser 180° as shown (Fig. 6), making sure that the down dot beam is still centered on the point previously marked on the floor.
5. Allow time for the laser to settle to plumb and mark the center of the dot created by the up beam.

If the measurement between the two marks is greater than shown below, the laser is no longer in calibration.

Distance Between Floor and Ceiling	Measurement Between Marks
15' (4.5 m)	1/8" (3 mm)
30' (9 m)	1/4" (6 mm)
50' (15 m)	11/32" (9 mm)

### CHECKING ACCURACY - LEVEL (FIG. 7–10)

Checking the level calibration of the laser unit requires two parallel walls at least 20' (6 m) apart. It is important to conduct a calibration check using a distance no shorter than the distance of the applications for which the tool will be used.

1. Place unit 2"–3" (5–8 cm) from first wall, facing the wall (Fig. 7).
2. Mark the beam position on the first wall.
3. Turn the unit 180°, and mark the beam position on the second wall (Fig. 8).
4. Place the unit 2"–3" (5–8 cm) from the second wall, facing the wall (Fig. 9).
5. Adjust the height of the unit until the beam hits the mark from step 3.
6. Turn the unit 180°, and aim the beam near the mark on the first wall from step 2 (Fig. 10).
7. Measure the vertical distance between the beam and the mark.
8. If the measurement is greater than the values shown below, the laser must be serviced at an authorized service center.

Repeat steps 1 through 8 to check the front beam, left beam, and right beam.

Distance Between Walls	Measurement Between Marks
15' (4.5 m)	1/8" (3 mm)
30' (9 m)	1/4" (6 mm)
50' (15 m)	11/32" (9 mm)

## TROUBLESHOOTING

### THE LASER DOES NOT TURN ON

- Make sure batteries are installed according to (+), (-) markings on battery door.
- Make sure the batteries are in proper working condition. If in doubt, try installing new batteries.
- Make sure that the battery contacts are clean and free of rust or corrosion. Be sure to keep the laser level dry and use only new, high-quality batteries to reduce the chance of battery leakage.
- If the laser has been stored in extremely hot temperatures, allow it to cool.

### THE LASER BEAMS FLASH (FIG. 4)

The DW08301 laser level has been designed to self-level up to 4° in all directions when positioned as shown in Figure 4. If the laser is tilted so much that internal mechanism cannot plumb itself, the laser will flash—the tilt range has been exceeded. THE FLASHING BEAMS CREATED BY THE LASER ARE NOT LEVEL OR PLUMB AND SHOULD NOT BE USED FOR DETERMINING OR MARKING LEVEL OR PLUMB. Try repositioning the laser on a more level surface.

### THE LASER BEAMS WILL NOT STOP MOVING

The DW08301 is a precision instrument. Therefore, if it is not positioned on a stable (and motionless) surface, the tool will continue to try to find plumb. If the beam will not stop moving, try placing the tool on a more stable surface. Also, try to make sure that the surface is relatively flat, so that the laser is stable.

\*Accuracy spec assumes laser is positioned on a surface within 4° of level.





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