INTRODUCTION

The DW082 Laser Plumb Bob is a self-plumbing laser tool that can be used inside and outside for vertical (plumb) alignment projects. This tool comes fully assembled. This tool has been designed with features that allow for quick and easy set-up. Please read and understand all instructions within this instruction manual prior to use.

General Safety Rules for Battery Operated Tools

1. WORK AREA
   - a. Keep work area clean and well lit. Clutter and dark areas invite accidents.
   - b. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gasses or dust. Power tools create sparks which may ignite the dust or fumes.
   - c. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2. ELECTRICAL SAFETY
   - a. Use battery operated tool only with the specifically designed batteries. Use of any other batteries may result in a fire or risk of injury.
   - b. Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.
   - c. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
   - d. Turn the laser off when it is not in use.
   - e. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gasses or dust. Power tools create sparks which may ignite the dust or fumes.
   - f. Keep cutting tools sharp and clean.
   - g. The free and clear condition of the work area permits better operation of the tool.

3. PERSONAL SAFETY
   - a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
   - b. Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
   - c. Avoid accidental starting. Ensure the switch is in the off position before connecting to power source or batteries, picking up tool, carrying it, or inserting and removing key. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
   - d. Store idle tools out of reach of children and other untrained persons.
   - e. Turn the laser off when it is not in use.
   - f. Do not remove or deface warning labels.
   - g. Remove dead batteries immediately and dispose of per local codes.

4. POWER TOOL USE AND CARE
   - a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
   - b. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
   - c. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
   - d. Battery-powered tools and the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
   - e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
   - f. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
   - g. Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.

5. BATTERY TOOL USE AND CARE
   - a. Do not use the battery pack or battery charger that was not provided by DEWALT.
   - b. Do not operate power tool with a damaged battery pack.
   - c. Do not disassemble the battery pack. There are no user serviceable parts inside.
   - d. Do not put batteries in a fire. Batteries may explode.
   - e. Do not operate power tool with a damaged battery pack.
   - f. Do not operate power tool with a damaged battery pack.
   - g. Do not open batteries or dispose of same in fire.

6. SERVICE
   - a. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
   - b. Batteries get hot during use, and may get hot enough to cause burns. Use care when handling.

7. LASER SAFETY
   - a. Use the laser tool only with the specifically designed batteries. Use of any other batteries may result in a fire or risk of injury.
   - b. Battery This tool is powered by four AA size batteries.

To install batteries:
   - 1. Lift up the battery compartment cover (A) as shown in Figure 1.
   - 2. Insert four fresh AA batteries in the compartment, placing the batteries according to label in battery compartment.

WARNING: Batteries can explode, or leak, and can cause injury or fire. To reduce this risk:
   - a. Carefully follow all instructions and warnings on the battery label and package.
   - b. Always insert batteries correctly with regard to polarity (+ and -). Marked on the battery and the equipment.
   - c. Do not short battery terminals.
   - d. Do not charge batteries with any charger other than that recommended by the manufacturer.
   - e. Do not mix old and new batteries.
   - f. Do not mix rechargeable and non-rechargeable batteries.
   - g. Do not mix different battery brands.
   - h. Replace all of them at the same time with new batteries of the same brand and type.
   - i. Do not remove dead batteries immediately and dispose of per local codes.
   - j. Do not dispose of batteries in fire.
   - k. Do not disassemble the battery pack.

SAVE THESE INSTRUCTIONS

WARNING! DO NOT DISASSEMBLE THE LASER PLUMB BOB. There are no user serviceable parts inside.

The DW082 Laser Plumb Bob will void all warranties on the product. Do not modify the product in any way. Modifying the tool may result in Hazardous Laser Radiation Exposure.

• Do not operate the laser in explosive atmospheres, such as in the presence of flammable liquids, gasses or dust. Power tools create sparks which may ignite the dust or fumes.
• Use the laser only with the specifically designated batteries. Use of any other batteries may create a risk of fire. Do not place the laser in a position which may cause anyone to intentionally or unintentionally stare into the laser beam. Serious eye injury could result.
• Turn the laser off when it is not in use. Leaving the laser on increases the risk of staring into the laser beam.
• Repairs and servicing MUST be performed by a qualified repair facility. Repairs performed by unqualified personnel could result in serious injury.
• Do not disassemble the laser tool. There are no user serviceable parts inside.
• Do not modify the laser in any way. Modifying the tool may result in Hazardous Laser Radiation Exposure.
• Do not disassemble the laser tool. There are no user serviceable parts inside.
• Do not do any servicing which involves the laser. Serious eye injury may result.
• Do not remove or damage warning labels. Removing labels increases the risk of exposure to radiation.
• Position the laser securely on a level surface. Damage to the laser or serious injury could result if the laser falls.
• Do not use alignment magnets to support the weight of the tool. Use alignment magnets for support increases the risk of laser falling.

CAUTION: Use of controls or adjustments or procedures other than those specified herein may result in Hazardous Radiation Exposure.

• The label on your tool may include the following symbols.

WARNING LABELS

For your convenience and safety, the following label is on your laser (Fig. 1).

AC-Version: LASER RADIATION - DO NOT STARE INTO THE BEAM.

CAUTION: CLASS II LASER RADIATION WHEN OPEN DO NOT STARE INTO THE BEAM.

Laser Information

The DW082 Laser Plumb Bob is a Class II laser product and complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice no. 50, dated july 26, 2001.
using the Laser Plumb Bob

With the Laser Plumb Bob Off, place the plumb bob on the floor, press the ON/OFF button to power the laser ON. The laser will turn on and project two beams, one up and one down. The two beams are plumb as long as the calibration has been checked (see Field Calibration Check below) and the laser beam is not flashing (see Out of Tilt Range Indicator). The tool can be used to transfer a point up or down by using one beam to locate the Laser Plumb Bob, and then transferring the point using the other beam.

NOTE: The Laser Plumb Bob has magnets which can be used to help position the tool against steel track fastened to the floor. The magnets are for alignment purposes only and SHOULD NOT BE USED TO SUPPORT THE WEIGHT OF THE LASER. Always make sure the tool is positioned securely and on a smooth surface.

OUT OF TILT RANGE INDICATOR

The DW082 Laser Plumb Bob is designed to self-plumb. If the laser has been tilted so much that internal mechanism cannot plumb itself (> 4° tilt), it will flash the laser beam (Fig. 5). The flashing dot indicates the tilt range has been exceeded. THE FLASHING DOT CREATED BY THE LASER IS NOT PLUMB AND SHOULD NOT BE USED FOR DETERMINING OR MARKING PLUMB. Try repositioning the laser on a more level surface. The DW082 is a precision instrument. Therefore, if it is not positioned on a stable (and moistureless) surface, the tool will continue to try to find plumb. If the dot 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.

Using the Laser Plumb Bob

As long as the tool is properly calibrated, this tool is self-plumbing. It is calibrated at the factory to find plumb as long as it is positioned on a flat surface within 4° of level. No manual adjustments must be made.

MAINTENANCE

To maintain the accuracy of your work, have the laser checked often to make sure it is properly calibrated. See the Field Calibration Check section of this manual. Calibration checks and other maintenance repairs may be performed by DEWALT service centres. When not in use, store the laser in the kit box provided. Do not store your laser in the kit box below 0°F or above 100°F.

CAUTION: Do not store your laser in the kit box if the laser is wet. The laser may be dired first with a soft dry cloth.

Cleaning

Exterior plastic parts may be cleaned with a damp cloth and mild detergent. Although these parts are solvent resistant, MEK-based solvents. Use a soft dry cloth to remove moisture from the tool before storage.

Field Calibration Check

This section provides instructions by which you can perform a simple field calibration check of your DEWALT Laser Plumb Bob. Checking the plumb calibration of the laser can be most accurately done when there is a substantial amount of vertical height available, ideally 15m (50'), with one person on the floor positioning the laser and another person near a ceiling about 15m (50') higher to mark the dot on the ceiling (Fig. 6). It is important to conduct a calibration check using a vertical distance no shorter than the vertical distance of the applications for which the tool will be used.

1. Start by marking a point on the floor.
2. Place the laser so that the down 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. 7), making sure that the down 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.

Note: The distance between the two marks on the ceiling is TWICE the actual error.

The two marks on the 15m (50') high ceiling should be no more than 6.35mm (1/4") apart. If the vertical distance being used is much less than 15m (50'), than the dots should be closer.

Troubleshooting

THE LASER DOES NOT TURN ON

• Make sure batteries are installed according to the label in the battery compartment.
• Make sure the batteries are in proper working condition. If in doubt, try installing new batteries.

Check the following:

• Make sure the battery contacts are clean and free of rust or corrosion. Be sure to keep the Laser Plumb Bob dry and use only new, high-quality, name brand batteries to reduce the chance of battery leakage.
• While the laser may be stored in temperatures up to 180°F (85°C), the laser has a built-in protection circuit that will not allow it to operate at temperatures in excess of 104°F (40°C). If the laser has been stored in extremely hot temperatures, allow it to cool. The Laser Plumb Bob will not be damaged by pressing the ON/OFF button before cooling to its proper operating temperature.

THE LASER BEAMS FLASH

The DW082 Laser Plumb Bob has been designed to self-plumb 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, it will flash the laser (Fig. 5) – the tilt range has been exceeded. THE FLASHING DOT CREATED BY THE LASER IS NOT PLUMB AND SHOULD NOT BE USED FOR DETERMINING OR MARKING PLUMB. Try repositioning the laser on a more level surface.

THE LASER DOTS WILL NOT STOP MOVING

The DW082 is a precision instrument. Therefore, if it is not positioned on a stable (and moistureless) surface, the tool will continue to try to find plumb. If the dot 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.

Service & Repairs

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by authorized service centers. Service or maintenance performed by unqualified persons may result in a risk of injury. To locate your nearest DEWALT Service centre call 1800 654 155 (Aus) or 09 526 2556 (NZ).

Guarantee

Three Year Limited Warranty

DEWALT will repair, without charge, any defects due to faulty materials or workmanship for three years from the date of purchase. Please return the complete unit, transportation prepaid, to any DEWALT Service Centre, or any authorized service station. For warranty repair information, call 1800 654 155.

This warranty does not apply to:
• Accessories
• Damage caused where repairs have been made or attempted by others.
• Damage due to misuse, neglect, wear and tear, alteration or modification.

This warranty gives you specific legal rights and you may have other rights under the provisions of the Consumer Guarantee Act 1993 (New Zealand only), Trade Practices Act 1974 and State Legislation (Australia only). In addition to the warranty, DEWALT tools are covered by our:

FREE ONE YEAR SERVICE CONTRACT

DEWALT will also warrant the tool for the first 12 months of purchase of the consumer with your sales receipt within 30 days for a replacement unit or a full refund. FREE WARNING LABEL REPLACEMENT: If your warning labels become illegible or are missing, call 1800 654-155 for a free replacement.

Environmental Water Resistant

This product is water resistant. Do not submerge.

Specifications

<table>
<thead>
<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>Laser Wavelength</td>
<td>635 nm visible</td>
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<td>Laser Power</td>
<td>5 mW (each beam)</td>
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*Accuracy spec assumes laser is positioned on a surface within 4° of level.

NOTE: Three Year Warranty is not applicable to items deemed as consumables. Radial arm saws are covered by a one (1) year warranty only. DEWALT reserves the right to review its warranty policy prior to launch of any new business development products.

30 Day Satisfaction Guarantee

If you are dissatisfied with any DEWALT power tools, laser, or nailer, for any reason, simply return it to the point of purchase with your sales receipt within 30 days for a replacement unit or a full refund.

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