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

INSTRUCTION MANUAL
GUIDE D'UTILISATION
MANUAL DE INSTRUCCIONES

DEWALT®

DW087, DW088 LaserChalkLine™ Laser Line Generator
Générateurs de faisceaux laser LaserChalkLine™ DW087 et DW088
Generador de línea láser LaserChalkLine™ DW087, DW088

DeWALT Industrial Tool Co., 701 Joppa Road, Baltimore, MD 21286
(JUN13) Form No. N296281 DW087, DW088 Copyright © 2013 DeWALT

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 Instructions for Lasers



WARNING! Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

WARNING! Laser Radiation Exposure. Do not disassemble or modify the laser level. There are no user serviceable parts inside. Serious eye injury could result.

WARNING: Hazardous Radiation. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Do not operate the laser in explosive atmospheres, such as in the presence of flammable liquids, gases, 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.
- Store idle laser out of reach of children and other untrained persons. Lasers are dangerous in the hands of untrained users.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one laser, may create a risk of injury when used on another laser.
- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in injury. To locate your nearest DeWALT service center call 1-800-4-DEWALT (1-800-433-9258) or go to <http://www.dewalt.com> on the Internet.
- Do not use optical tools such as a telescope or transit to view the laser beam. Serious eye injury could result.
- 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.
- 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 operate the laser around children or allow children to operate the laser. Serious eye injury may result.
- Do not remove or deface 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.

WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber (CCA).

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

- Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.

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

V.....volts
mW.....milliwatts

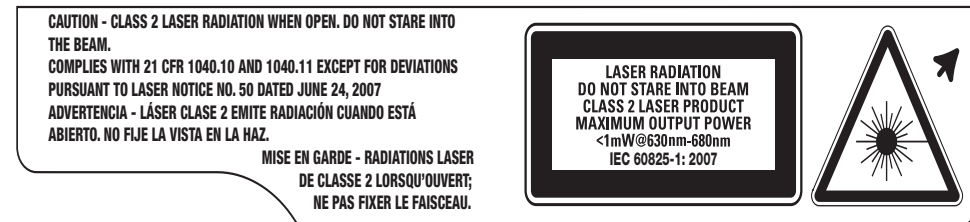
.....laser warning symbol
nm.....wavelength in nanometers
II.....Class II Laser
IIIa.....Class IIIa Laser

WARNING LABELS

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

CAUTION: LASER RADIATION - DO NOT STARE INTO THE LASER BEAM. CLASS II LASER PRODUCT.

CAUTION: CLASS 2 LASER RADIATION WHEN OPEN DO NOT STARE INTO THE BEAM.



Laser Information

The DW087 and DW088 LaserChalkLine™ Laser Line Generators are Class II laser products and comply with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007.

INTRODUCTION

The DW087 and DW088 lasers are self-leveling laser tools that can be used inside and outside for horizontal (level) vertical and plumb alignment projects.

General Safety Rules For Battery Operated Tools



WARNING! Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

WORK AREA

- Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.
- Do not operate laser tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep bystanders, children, and visitors away while operating a laser tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

- Use battery operated tool only with the specifically designed batteries. Use of any other batteries may create a risk of fire.

Battery

This tool is powered by three 1.5V AA size batteries.

To install batteries:

1. Lift up the battery compartment cover (A) as shown in Figure 1.
2. Insert three fresh AA batteries in the compartment, placing the batteries according to (+) and (-) on the inside of the battery door.

WARNING: Batteries can explode, or leak, and can cause injury or fire. To reduce this risk:

- Carefully follow all instructions and warnings on the battery label and package.
- Always insert batteries correctly with regard to polarity (+ and -), marked on the battery and the equipment.
- Do not short battery terminals.
- Do not charge batteries.
- Do not mix old and new batteries. Replace all of them at the same time with new batteries of the same brand and type.
- Remove dead batteries immediately and dispose of per local codes.
- Do not dispose of batteries in fire.
- Keep batteries out of reach of children.
- Remove batteries if the device will not be used for several months.

PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a laser tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
- Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection may be required for appropriate conditions.

TOOL USE AND CARE

- Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

To locate your nearest DeWALT service center call 1-800-4-DeWALT (1-800-433-9258) or go to <http://www.dewalt.com> on the Internet.

Operating Tips

- Use only new, high-quality, name brand batteries for best results.
- Ensure batteries are in good working condition. If the low battery red indicator light is flashing, the batteries need replacement.
- To extend battery life, turn laser off when not working with or marking the beam.
- 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 beam 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 still calibrated. See Field Calibration Check.

LOW BATTERY INDICATION

The DW087 and DW088 lasers are equipped with a red indicator light (B), as shown in Figure 2. The red indicator lights are located to the left of the ON/OFF buttons (C, D).

A flashing red indicator light indicates that the batteries are low and need to be replaced. The laser may continue to operate for a short time while the batteries continue to drain, but the beam(s) will quickly dim. After fresh batteries are installed and the laser is turned on again, the laser beam(s) will return to full brightness and the red indicator light will stay off. (A flashing laser beam is not caused by low batteries; see Out of Tilt Range Indicator.)

OPERATION

To Turn the Lasers On and Off (Fig. 2)

With the laser off, place it on a flat surface. This model has two ON/OFF buttons, one for a horizontal laser line (C) and one for a vertical laser line (D). Each laser line is powered on by pressing its ON/OFF button. The laser lines can be powered one at a time or at the same time. Pressing the ON/OFF buttons again turns the laser lines off.

Using the Lasers

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 Tilt Range Indicator).

OUT OF TILT RANGE INDICATOR (FIG. 3, 4)

The lasers are designed to self-level. If the laser has been tilted so much that it cannot level itself (average > 4° tilt), it will flash the laser beam (Fig. 4). The flashing beam indicates the tilt range has been exceeded and 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.

USING THE LASERS WITH ACCESSORIES

The lasers are equipped with a 1/4" x 20 female thread on the bottom of the unit. This thread is to accommodate current or future DeWALT accessories. Only use DeWALT accessories specified for use with this product. Follow the directions included with the accessory.

CAUTION: The use of any other accessory not recommended for use with this tool could be hazardous.

If you need any assistance in locating any accessory, please contact DeWALT Industrial Tool Co., 701 East Joppa Road, Baltimore, MD 21286 or call 1-800-4-DeWALT (1-800-433-9258). See our catalog on the World Wide Web at www.dewalt.com.

USING THE PIVOT BRACKET (FIG. 5)

The lasers have a magnetic pivot bracket (E) permanently attached to the units. This bracket allows the unit to be mounted to any upright surface made of steel or iron. Common examples of suitable surfaces include steel framing studs, steel door frames and structural steel beams. The bracket also has a keyhole slot (F) allowing the unit to be hung from a nail or screw on any kind of surface. Position the laser and/or wall mount on a stable surface. Serious personal injury or damage to the laser may result if the laser falls.

USING THE LASER WITH THE WALL MOUNT (FIG. 5)

The DW0860 Laser Wall Mount offers more mounting options for the DW087 and DW088 lasers. The wall mount has a clamp (G) at one end which can be fixed to a wall angle for acoustic ceiling installation. At the other end of the wall mount is a screw hole (H), allowing the wall mount to be attached to any surface with a nail or screw.

Once the wall mount is secured, its steel plate provides a surface to which the magnetic pivot bracket can be attached. The position of the laser can then be fine-tuned by sliding the pivot bracket up or down on the wall mount.

LEVELING THE LASERS

As long as the lasers are properly calibrated, the lasers are self-leveling. Each laser is calibrated at the factory to find level as long as it is positioned on a flat surface within average ± 4° of level. No manual adjustments must be made.

MAINTENANCE

- To maintain the accuracy of your work, check the laser often to make sure it is properly calibrated. See **Field Calibration Check**.
- Calibration checks and other maintenance repairs may be performed by DeWALT service centers.
- When not in use, store the laser in the kit box provided. Do not store your laser at temperatures below -5°F (-20°C) or above 140°F (60°C).
- Do not store your laser in the kit box if the laser is wet. The laser should be dried first with a soft dry cloth.

Cleaning

Exterior plastic parts may be cleaned with a damp cloth. Although these parts are solvent resistant, NEVER use solvents. Use a soft, dry cloth to remove moisture from the tool before storage.

Field Calibration Check

CHECKING ACCURACY – HORIZONTAL BEAM, SCAN DIRECTION (FIG. 6)

Checking the horizontal scan calibration of the laser requires two walls 30' (9m) 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.

- Attach the laser to a wall using its pivot bracket. Make sure the laser is facing straight ahead.
- Turn on the laser's horizontal beam and pivot the laser approximately 45° so that the right-most end of the laser line is striking the opposing wall at a distance of at least 30' (9m). Mark the center of the beam (a).
- Pivot the laser approximately 90° to bring the left-most end of the laser line around to the mark made in Step 2. Mark the center of the beam (b).
- Measure the vertical distance between the marks.
- If the measurement is greater than the values shown below, the laser must be serviced at an authorized service center.

Distance Between Walls	Allowable Distance Between Marks
30' (9m)	1/8" (3.0mm)
40' (12m)	5/32" (4.0mm)
50' (15m)	7/32" (5.0mm)

CHECKING ACCURACY – HORIZONTAL BEAM, PITCH DIRECTION (FIG. 7)

Checking the horizontal pitch calibration of the laser requires a single wall at least 30' (9m) long. 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.

- Attach the laser to one end of a wall using its pivot bracket.
- Turn on the laser's horizontal beam and pivot the laser toward the opposite end of the wall and approximately parallel to the adjacent wall.
- Mark the center of the beam at two locations (c, d) at least 30' (9m) apart.
- Reposition the laser to the opposite end of the wall.
- Turn on the laser's horizontal beam and pivot the laser back toward the first end of the wall and approximately parallel to the adjacent wall.
- Adjust the height of the laser so that the center of the beam is aligned with the nearest mark (d).
- Mark the center of the beam (e) directly above or below the farthest mark (c).
- Measure the distance between these two marks (c, e).
- If the measurement is greater than the values shown below, the laser must be serviced at an authorized service center.

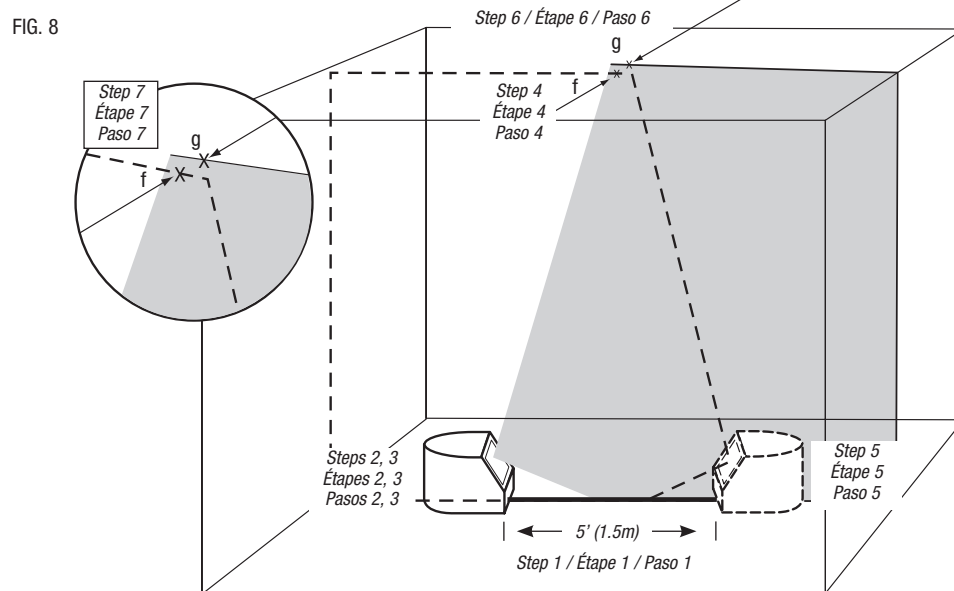
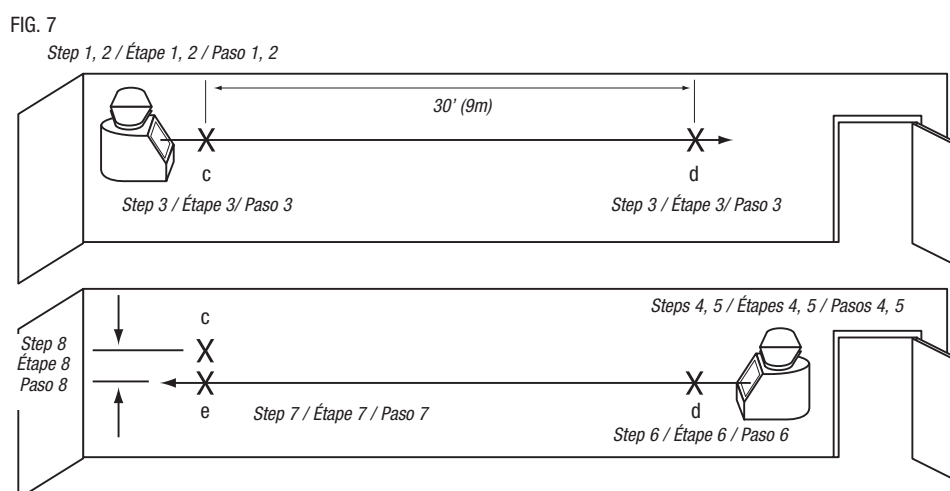
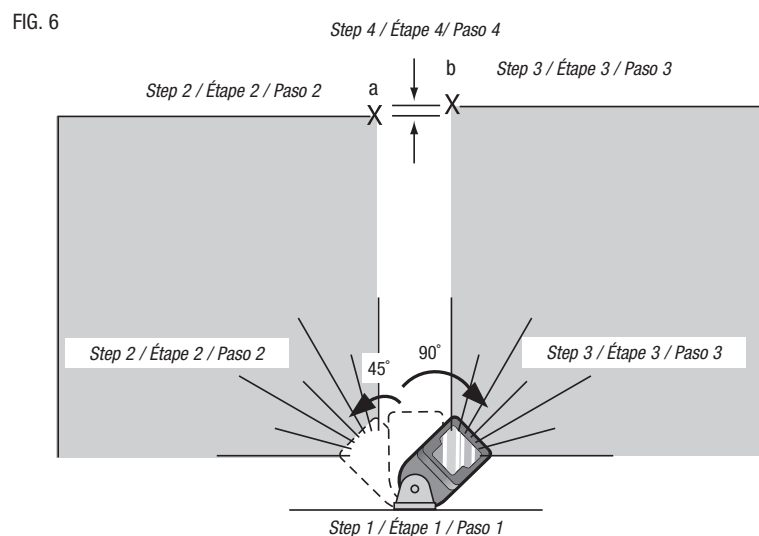
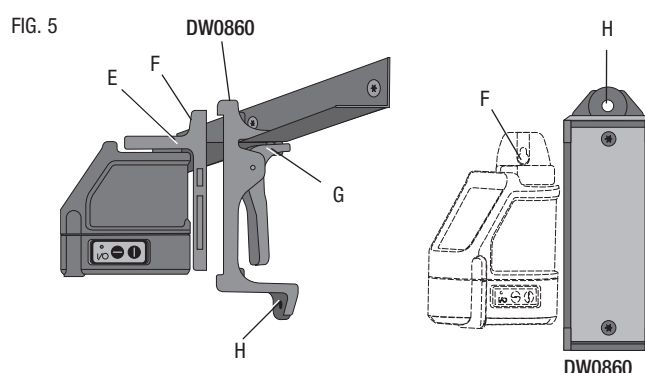
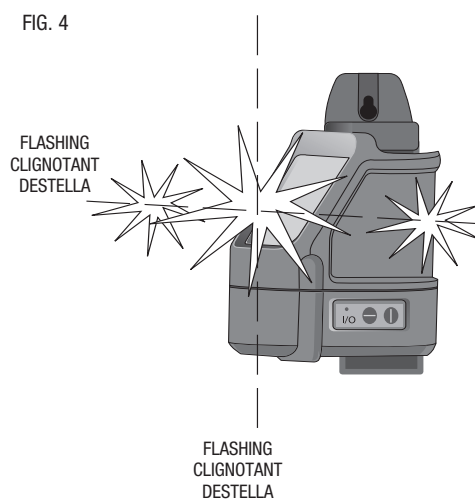
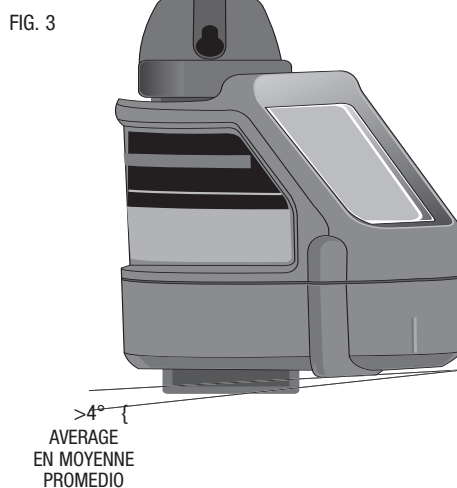
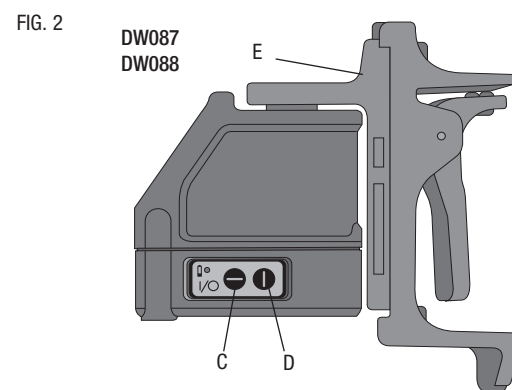
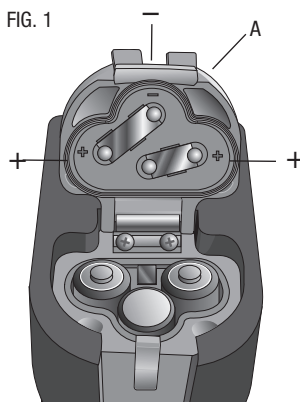
Distance Between Walls	Allowable Distance Between Marks
30' (9m)	1/4" (6.0mm)
40' (12m)	5/16" (8.0mm)
50' (15m)	13/32" (10.0mm)

CHECKING ACCURACY – VERTICAL BEAM (FIG. 8)

Checking the vertical (plumb) calibration of the laser can be most accurately done when there is a substantial amount of vertical height available, ideally 30' (9m), with one person on the floor positioning the laser and another person near a ceiling to mark the position of the beam. 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.

- Start by marking a 5' (1.5m) line on the floor.
- Turn on the laser's vertical beam and position the unit at one end of the line, facing the line.
- Adjust the unit so its beam is aligned and centered on the line on the floor.
- Mark the position of the laser beam on the ceiling (f). Mark the center of the laser beam directly over the midpoint of the line on the floor.
- Reposition the laser at the other end of the line on the floor. Adjust the unit once again so its beam is aligned and centered on the line on the floor.
- Mark the position of the laser beam on the ceiling (g), directly beside the first mark (f).
- Measure the distance between these two marks.
- If the measurement is greater than the values shown below, the laser must be serviced at an authorized service center.

Ceiling Height	Allowable Distance Between Marks
8' (2.5m)	5/32 (3,5 mm)
10' (3.0m)	3/16 (4,5 mm)
14' (4.0m)	1/4 (6,0 mm)
20' (6.0m)	3/8 (9,0 mm)
30' (9.0m)	1/2 (13 mm)



Troubleshooting

THE LASER DOES NOT TURN ON

- Make sure batteries are installed according to (+) and (-) on the inside of the 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, name brand batteries to reduce the chance of battery leakage.
- If the laser unit is heated above 120°F (50°C), the unit will not turn on. If the laser has been stored in extremely hot temperatures, allow it to cool. The laser level will not be damaged by pressing the on/off button before cooling to its proper operating temperature.

THE LASER BEAMS FLASH

The DW087 and DW088 have been designed to self-level up to an average of 4° in all directions when positioned as shown in Figure 3. If the laser is tilted so much that internal mechanism cannot level itself, it will flash the laser (Fig. 4) – 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 DW087 and DW088 are precision instruments. Therefore, if the laser is not positioned on a stable (and motionless) surface, the laser will continue to try to find level. If the beam will not stop moving, try placing the laser on a more stable surface. Also, try to make sure that the surface is relatively flat, so that the laser is stable.

Service and Repairs

NOTE: Disassembling the laser level(s) will void all warranties on the product.

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by authorized service centers. Service or maintenance performed by unqualified personnel may result in a risk of injury. To locate your nearest DeWALT service center call 1-800-4-DeWALT (1-800-433-9258) or go to <http://www.dewalt.com> on the Internet.

SPECIFICATIONS	
Light Source	Semiconductor laser diode
Laser Wavelength	630 – 680nm Visible
Laser Power	<1mw (each beam) CLASS II LASER PRODUCT
Working Range	165' (50m) (with detector)
Accuracy (Level)	± 1/8" per 30' (±3mm per 9m)
Indicators	Flashing Indicator: battery low Flashing Laser: tilt range exceeded
Power Source	3 AA (1.5V) size batteries (4.5V DC)
Operating Temperature	20°F to 115°F (-10°C to 45°C)
Storage Temperature	-5°F to 140°F (-20°C to 60°C)
Environmental	Water Resistant

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. This warranty does not cover part failure due to normal wear or tool abuse. For further detail of warranty coverage and warranty repair information, visit www.dewalt.com or call 1-800-4-DeWALT (1-800-433-9258). This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

In addition to the warranty, DeWALT tools are covered by our:

1 YEAR FREE SERVICE

DeWALT will maintain the tool and replace worn parts caused by normal use, for free, any time during the first year after purchase.

90 DAY MONEY BACK GUARANTEE

If you are not completely satisfied with the performance of your DeWALT Power Tool, Laser, or Nailer for any reason, you can return it within 90 days from the date of purchase with a receipt for a full refund – no questions asked.

RECONDITIONED PRODUCT: Reconditioned product is covered under the 1 Year Free Service Warranty. The 90 Day Money Back Guarantee and the Three Year Limited Warranty do not apply to reconditioned product.

FREE WARNING LABEL REPLACEMENT: If your warning labels become illegible or are missing, call 1-800-4-DeWALT or visit your local service center for a free replacement.

SI VOUS AVEZ DES QUESTIONS OU VOUS VOULEZ NOUS FAIRE PART DE VOS COMMENTAIRES CONCERNANT CET OUTIL OU TOUT AUTRE OUTIL DeWALT, COMPOSEZ SANS FRAIS LE : 1-800-433-9258 (1-800-4-DEWALT).

Consignes de sécurité importantes pour lasers



AVERTISSEMENT : Lire, comprendre et suivre toutes les directives précisées ci-dessous afin d'éviter les risques de choc électrique, d'incendie ou de blessure grave.

CONSERVER CES DIRECTIVES

AVERTISSEMENT : Exposition à des radiations laser. Ne pas démonter ou modifier le niveau laser. Il ne comporte à l'intérieur aucune pièce réparable par l'utilisateur. De sérieuses lésions oculaires pourraient en résulter.

AVERTISSEMENT : Radiation dangereuse. Toute utilisation des commandes ou exécution des procédures ou tout réglage non conforme aux spécifications incluses dans les présentes pose des risques d'exposition à des radiations laser dangereuses.

- **Ne pas utiliser le laser dans une atmosphère explosive, comme en présence de liquide, de gaz ou de poussière inflammable.**
- **N'utiliser que des piles spécialement conçues pour les lasers;** l'usage de tout autre type de pile pourrait entraîner des risques d'incendie.
- **Lorsqu'on n'utilise pas le laser, le ranger hors de la portée des enfants ou des personnes non qualifiées;** les lasers sont dangereux entre les mains de personnes inexpérimentées.
- **N'utiliser que les accessoires recommandés par le fabricant pour le modèle concerné;** un accessoire destiné à un laser particulier peut devenir dangereux lorsqu'il est utilisé avec un autre.
- **L'outil doit être entretenu par le personnel qualifié seulement;** tout entretien effectué par une personne non qualifiée pourrait entraîner des risques de blessure. Pour trouver le centre de service DeWALT le plus proche, appeler le 1-800-4-DEWALT (1-800-433-9258) ou se rendre sur le site Internet <http://www.dewalt.com>.
- **Ne pas utiliser un dispositif optique, tel qu'un télescope ou une lunette de passage, pour examiner le faisceau laser** afin d'éviter de blesser grièvement les yeux.
- **Ne pas mettre le laser dans une position qui pourrait encourager une personne à regarder directement le faisceau laser, volontairement ou involontairement,** car cela pourrait blesser grièvement les yeux.
- **Mettre le laser hors tension après chaque utilisation,** car un laser laissé sous tension augmente les risques que quelqu'un regarde directement le faisceau laser.
- **Ne pas démonter l'outil laser.** Il ne comporte à l'intérieur aucune pièce réparable par l'utilisateur.
- **Ne modifier le laser en aucune façon.** Le fait de modifier l'outil pose des risques d'exposition à des radiations laser dangereuses.
- **Ne pas utiliser le laser en présence d'un enfant, ni autoriser les enfants à utiliser le laser** afin d'éviter les blessures graves aux yeux.
- **Ne pas retirer ni abîmer les étiquettes d'avertissement;** le fait de retirer les étiquettes augmentera les risques d'exposition aux radiations laser.
- **S'assurer de bien déposer le laser sur une surface de niveau** afin de l'empêcher de tomber et de s'endommager ou de blesser l'utilisateur.

L'étiquette apposée sur l'outil peut afficher les symboles suivants :

- V.....volts
- mW.....milliwatts
-symbole d'avertissement laser
- nm.....longueur d'onde exprimée en nanomètres
- II.....Laser de classe II
- IIIa.....Laser de classe IIIa

ÉTIQUETTES D'AVERTISSEMENT

Pour des raisons de commodités et de sécurité, l'étiquette suivante est apposée sur ce produit.

AVERTISSEMENT : RADIATION LASER - NE JAMAIS FIXER LE FAISCEAU LASER DES YEUX. APPAREIL LASER DE CLASSE II.

AVERTISSEMENT : RADIATIONS LASER DE CLASSE 2, NE PAS FIXER LE FAISCEAU DES YEUX PENDANT SON FONCTIONNEMENT.

CAUTION - CLASS 2 LASER RADIATION WHEN OPEN. DO NOT STARE INTO THE BEAM.
COMPLIES WITH 21 CFR 1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE NO. 50 DATED JUNE 24, 2007
ADVERTENCIA - LASER CLASE 2 EMITE RADIACIÓN CUANDO ESTÁ ABIERTO. NO FIJE LA VISTA EN LA HAZ.
MISE EN GARDE - RADIATIONS LASER DE CLASSE 2 LORSQU'OUVERT; NE PAS FIXER LE FAISCEAU.

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
MAXIMUM OUTPUT POWER
<1mW@630nm-680nm
IEC 60825-1: 2007



Informations relatives au laser

Les générateurs de faisceaux laser LaserChalkLine^{MC}, DW087 et DW088, sont des appareils laser de classe II et sont conformes aux réglementations 21 CFR 1040.10 et 1040.11 excepté pour ce qui concerne certaines déviations relatives à la décision n° 50 en date du 24 juin 2007.

INTRODUCTION

Les niveaux laser sont des appareils laser auto niveleurs qui peuvent être utilisés à l'intérieur comme à l'extérieur pour un nivellement horizontal et vertical

Règles de sécurité concernant les outils à piles – généralités



AVERTISSEMENT : Lire, comprendre et suivre toutes les directives précisées ci-dessous afin d'éviter les risques de choc électrique, d'incendie ou de blessure grave.

AIRE DE TRAVAIL

- **Garder l'aire de travail propre et bien éclairée;** les établis encombrés et les endroits sombres sont propices aux accidents.
- **Ne pas utiliser les outils électriques dans une atmosphère explosive, comme à proximité de liquides, de gaz ou de poussières inflammables;** le moteur peut créer des étincelles et enflammer les vapeurs ou les poussières environnantes.
- **Tenir les enfants, les visiteurs ou toute autre personne à l'écart lorsqu'on utilise un outil électrique;** les distractions peuvent faire perdre la maîtrise de ce dernier.

MESURES DE SÉCURITÉ – ÉLECTRICITÉ

- **N'utiliser l'outil à piles qu'avec les piles désigné,** car l'utilisation d'un autre type de piles peut entraîner un risque d'incendie.

Piles

Cet appareil fonctionne sur trois piles AA 1,5 V.

Pour installer les piles:

1. Ouvrir le couvercle du compartiment des piles (A) comme illustré en Figure 1.
2. Insérer trois piles AA neuves dans le compartiment, en s'assurant de bien les disposer conformément aux signes (+) et (-) sur le couvercle du boîtier.

AVERTISSEMENT : Les piles peuvent exploser ou fuir, et posent des risques de blessure ou d'incendie. Pour réduire ces risques :

- Suivre attentivement toute instruction ou tout avertissement inclus sur l'étiquette ou l'emballage des piles.
- Lors de l'installation, toujours respecter la polarité (+ et -) inscrite sur les piles et le matériel.
- Ne pas court-circuiter les bornes.
- Ne pas recharger les piles.
- Ne pas mélanger des piles neuves avec des piles usagées. Les remplacer toutes en même temps avec des piles de la même marque ou du même type.

Patents Pending.

