

BENCHMARKTM MC

CROSS LINE LASER LEVEL



5 Year Limited Warranty on tool

IC
SN011DG

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

CROSS LINE LASER LEVEL	
Laser class	class 2 (IEC/EN60825-1/2014), <1mW
Laser wavelength	520nm±10nm
Leveling accuracy	±1/8" at 33Ft (± 3mm at 10M)
Leveling/ Compensation range	3°±1°
Self-leveling time	≤ 3 seconds
Reference working Distance(100lux)	65ft/20m
Female threaded size	1/4"-20
IP rating	IP54
Operation Temperature range	-10 °C ~ +50 °C
Storage Temperature range	-20 °C ~ +70 °C
Tool operating weight	0.54Lb (0.25KG)

NEED ASSISTANCE?

Call us on our toll-free customer support line:

1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package

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SAFETY INSTRUCTIONS

⚠ WARNING! Read and understand all instructions before using this tool. The operator must follow basic precautions to reduce the risk of personal injury and/or damage to the equipment.

⚠ WARNING: Laser Radiation Exposure. Do not disassemble or modify the laser level. There are no user serviceable parts inside. Serious eye injury or blindness 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. This tool may create sparks which may ignite the dust or fumes.
- Store an idle laser out of reach of children and other untrained persons. Lasers are dangerous in the hands of untrained users.
- Tool service **MUST** be performed by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in injury.
- 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.
- Do not position the laser near a reflective surface which may reflect the laser beam toward anyone's eyes. 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 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. If labels are removed, the user or others may inadvertently expose themselves to radiation.
- Position the laser securely on a level surface. If the laser falls, damage to the laser or serious injury could result.

PERSONAL SAFETY

- Stay alert, watch what you are doing, and use common sense when operating the laser. Do not use the laser when you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the laser may result in serious personal injury.
- This tool contains a Class 2 laser product that emits laser light. An exposure to the beam of a Class 2 laser is considered safe for a maximum of 2 seconds. Eyelid reflexes will normally provide adequate protection.

- Use personal protective equipment. Always wear eye protection. Depending on the work conditions, wearing protective equipment such as a dust mask, non-skid safety shoes, hard hat, and hearing protection will reduce personal injury.
- Set the room's light levels as bright as possible to keep the eye's pupil small. The pupil will grow larger in dim light and it is easier for direct or reflected laser light to damage the retina.

⚠ WARNING: Keep the tool and any accessories such as a magnetic holder, positioning device, laser receiver or laser target plate away from cardiac pacemakers. The magnets of the tool and laser target plates etc. generate a field that can impair the function of cardiac pacemakers. Keep the tool and any accessories such as a magnetic holder, positioning device, laser receiver or laser target plate away from magnetic data medium and magnetically-sensitive equipment. The effect of the magnets of the tool and laser target plate can lead to irreversible data loss.

TOOL USE AND CARE

- Do not use the laser if the Power/Transport Lock switch does not turn the laser on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- 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.

⚠ CAUTION: To avoid damage to the unit, please protect from the following situations:

1. EMF (electro-magnetic fields) from arc welders, induction heaters
2. Thermal shock (caused by large or abrupt ambient temperature changes- allow 30 minutes for the unit to stabilize before use.
3. Do not leave the unit on or near objects of high temperature.

USER GUIDE, MAINTENANCE AND CARE

When not in use please turn the tool OFF and place the pendulum lock in the locked position to avoid damage to the lasers.

1. The laser tool is sealed and calibrated at the factory to the accuracy specified.
2. It's recommended to carry out an accuracy check before its first use and periodic checks during future use, especially for precise layouts
3. Do not touch the laser beam outlet (glass window) , this could result in fingerprints on the outlet/window which may affect the performance of the laser.
4. Do not store the laser tool in direct sunlight or expose it to high temperatures. The housing and some internal parts are made of plastics and may become deformed at high temperatures.
5. Exterior plastic parts may be cleaned with a damp cloth, NEVER use solvents. Use a soft, dry cloth to remove moisture from the tool before storage.
6. Store the tool in its case when not in use. If storing for an extended time, remove batteries before storage to prevent possible damage.
7. Do not dispose of this product with household waste.
8. Always dispose of batteries per local code.
9. Please recycle in line with local provisions for the collection and disposal of electrical and electronic waste under the WEEE Directive.

BATTERY SAFETY AND INSTALLATION

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 –), as marked on the battery and the equipment.
- Do not short battery terminals.
- Do not charge disposable batteries.
- Do not mix old and new batteries. Replace all batteries 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 when the device is not in use.

INSTALLING AA BATTERIES

1. Turn the laser away from eyes.
2. On the bottom of the laser, lift up the latch to open the battery compartment cover.
3. Insert two AA batteries (included), making sure to position the - and + ends of each battery as noted inside the battery compartment.
4. Push the battery compartment cover closed until it snaps in place.

NOTE: When the laser is not in use, keep the Pendulum/ Transit Lock switch in the (OFF) position to save battery power and protect the lasers.

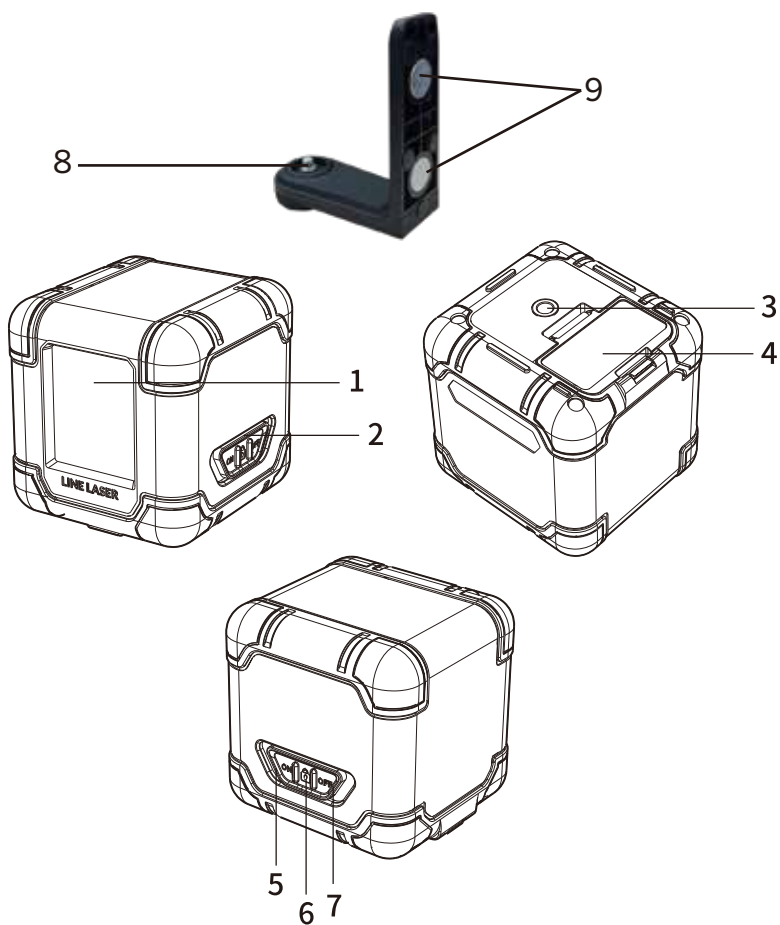
SYMBOLS

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.

	Direct current, DC		Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Refer to instruction manual/ booklet		
	General warning		Regulatory compliance mark

KNOW YOUR CROSS LINE LASER LEVEL

1. LASER BEAM OUTLET
2. PENDULUM / TRANSIT LOCK
3. 1/4" - 20 THREADED MOUNT
4. BATTERY COMPARTMENT COVER
5. SELF-LEVELING MODE
6. MANUAL MODE
7. OFF POSITION
8. MAGNETIC HOLDER
9. MAGNETS ON HOLDER



OPERATION

SELF LEVELING MODE

Move the Pendulum/Transit Lock switch to the self-leveling position (1) to unlock the pendulum and display the cross beams in self-leveling mode (Fig.1).

NOTE: If the laser is tilted so much that it cannot self-level ($> 3^{\circ}$), or the laser is not level in self leveling mode, the laser beams will flash.

MANUAL OR TILT MODE

Move the Pendulum /Transit Lock switch to manual mode (2) to keep the pendulum locked and display the cross beams in manual mode (Fig.1).

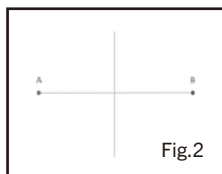
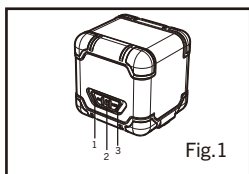
NOTE: The lasers will blink every 3-5 seconds to remind the user that the laser is in manual mode and is NOT self-leveling.

NOTE: IF THE LASER BEAM FLASHES CONTINUOUSLY, THE LASERS ARE NOT LEVEL (OR PLUMB) AND SHOULD NOT BE USED FOR DETERMINING OR MARKING LEVEL OR PLUMB. TRY REPOSITIONING THE LASER ON A LEVEL SURFACE UNTIL THE LASERS STOP FLASHING.

NOTE: Laser beams projected in manual mode cannot be used as a "level" horizontal or "level" vertical references in nature. If you require true level then **SWITCH TO SELF LEVELING MODE.**

TURNING LASER LEVEL OFF/LOCKING THE PENDULUM

Slide the pendulum/transit lock switch to the OFF position (3) to turn the laser level OFF and lock the pendulum in place.



OPERATING TIPS

- Always mark the center of the beam (dot) created by the laser.
- Extreme temperature changes may cause movement of internal parts that can affect accuracy. Check your accuracy often while working.
- If the laser is ever dropped, check to make sure it is still calibrated.

NOTE: The laser level is calibrated by the manufacturer using specialized equipment. The laser level cannot be re-calibrated by the user. Handle with care and keep the pendulum/transit lock switch in the "lock" position when the level is not in use.

CHECKING THE ACCURACY OF THE LEVEL'S CALIBRATION

1. Turn the pendulum/transit lock switch to the "unlocked" position (1) (Fig.1).
2. Project a laser line on the wall approx. (16.5ft/5m) away.
3. Rotate the body of the laser so that the left edge is just visible mark the height of the horizontal line.

4. Carefully rotate the body of the laser so that the extreme right side of the horizontal laser line is now located and make another mark.
5. If the height of both marks are the same or very close (less than 0.12" or 3mm apart, then the calibration of the laser is good and within tolerance (Fig.2).

MAINTENANCE

 **WARNING:** When servicing, use only identical replacement parts. The use of any other part may create a hazard or cause product damage.

DO NOT use solvents when cleaning plastic parts. Plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease, etc.

 **WARNING:** Do not allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come into contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

DO NOT abuse power tools. Abusive practices can damage the tool and the workpiece.

 **WARNING:** DO NOT attempt to modify tools or create accessories. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.

LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

BATTERY PACK REMOVAL AND PREPARATION FOR RECYCLING

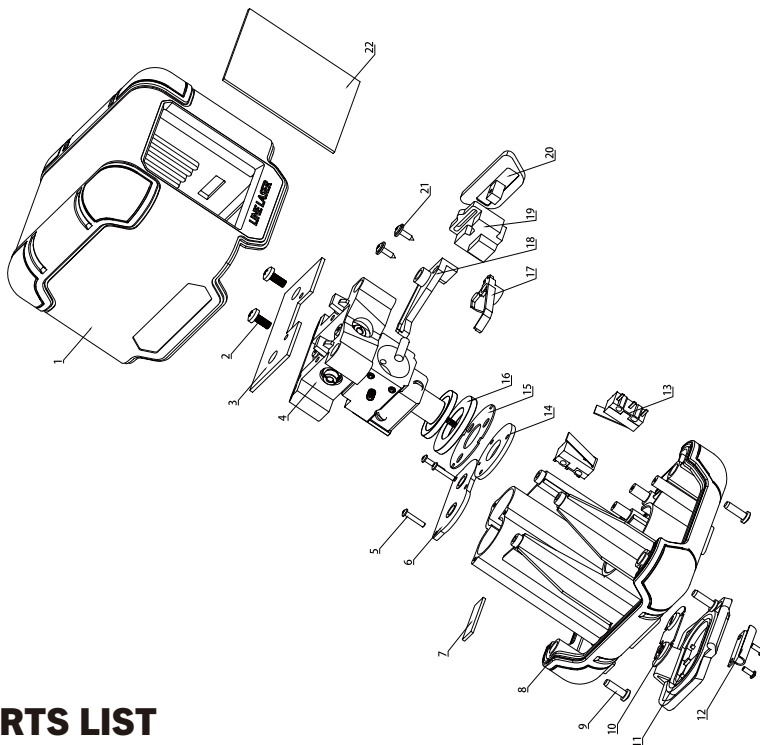
To preserve our natural resources, please recycle or dispose of batteries properly.

The batteries accompanying this tool may contain chemicals and metals that are harmful to the environment. Never dispose of rechargeable batteries in your normal household garbage or in landfill sites, because they will add to the pollution of the environment.

Consult your local waste authority for information regarding available recycling and disposal options.

 **WARNING:** Upon removal of the battery pack, cover the terminals of the battery pack with electrical tape or heavy-duty tape. Never touch both terminals with metal objects or parts, because a short circuit may result. Keep away from children. Do not attempt to destroy or disassemble battery pack or remove any of its components. Rechargeable batteries must be recycled or disposed of properly.

EXPLODED VIEW



PARTS LIST

Always order by part number.

KEY #	PART #	PART NAME / QUANTITY	KEY #	PART #	PART NAME / QUANTITY
1	302010784	Front cover / 1	12	301050002	Battery cover pressing piece / 1
2	301110011	Phillips round head screws / 1	13	302090151	Micro switch / 2
3	203100006	Main board / 1	14	300100020	Induction plate / 1
4	201070003	Green Laser Module / 1	15	301050001	Magnet base plate / 1
5	301110003	Phillips head screw / 5	16	301030001	Magnet ring / 1
6	303050201	Battery spring plate / 1	17	302050083	Locking piece A / 1
7	500100023	Sealing bar / 1	18	302050084	Locking piece B / 1
8	302060176	Base / 1	19	302090211	Locking push piece / 1
9	301110002	Phillips Round Head Screws / 4	20	302090210	Slide Switch / 1
10	301050018	Battery cover contacts / 1	21	301110005	Phillips round head tapping screws with pad / 2
11	302010785	Battery cover / 1	22	304120072	Window glass (47.1 x 36.4 x 1) / 1

WARRANTY

BENCHMARK WARRANTY FOR CROSS LINE LASER LEVEL

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

CROSS LINE LASER LEVEL



5 Year Limited Warranty on tool

BENCHMARK™

BENCHMARK TOOLS CANADA

ST. JACOBS, ONTARIO N0B 2N0

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CUSTOMER SERVICE/TECH SUPPORT

1-866-349-8665

1082-003

Made in China



* This Benchmark™ product carries a five (5) year LIMITED warranty against defects in workmanship and materials.

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