IMPORTANT:
Read Before Using



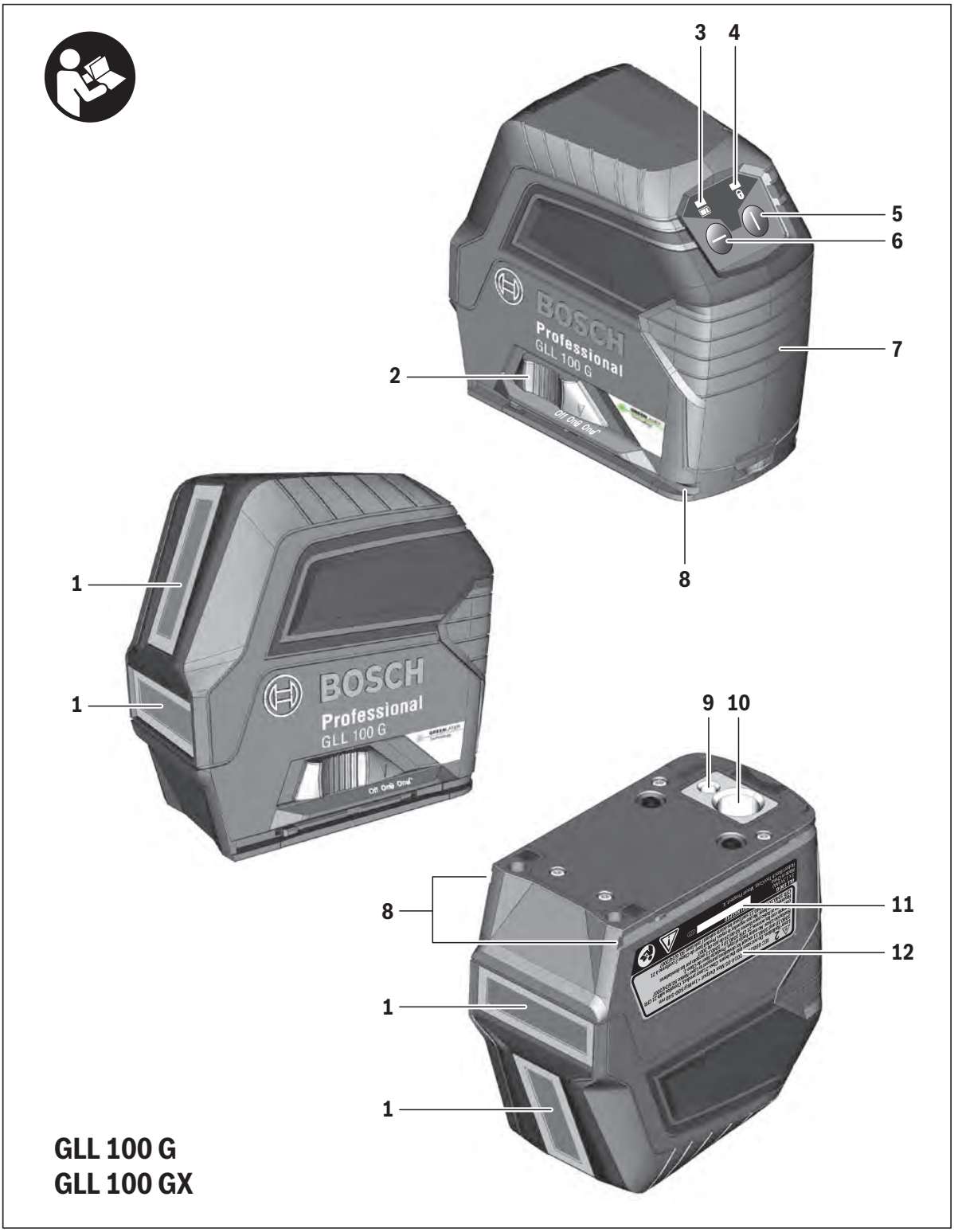
Operating / Safety Instructions

GLL 100 G
GLL 100 GX



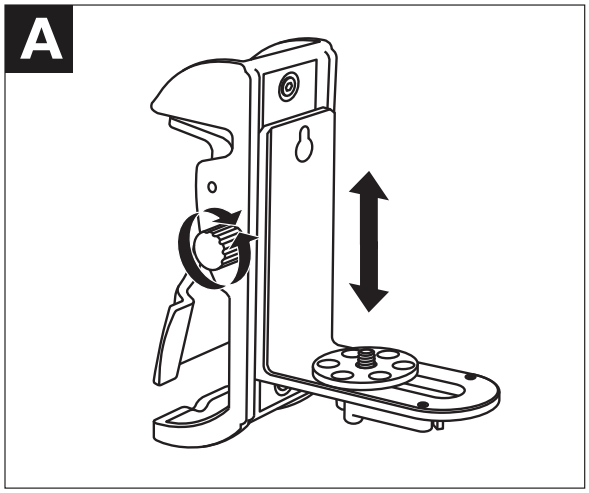
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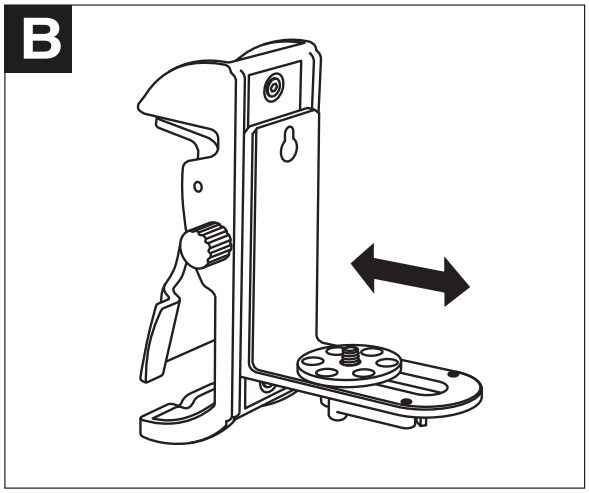
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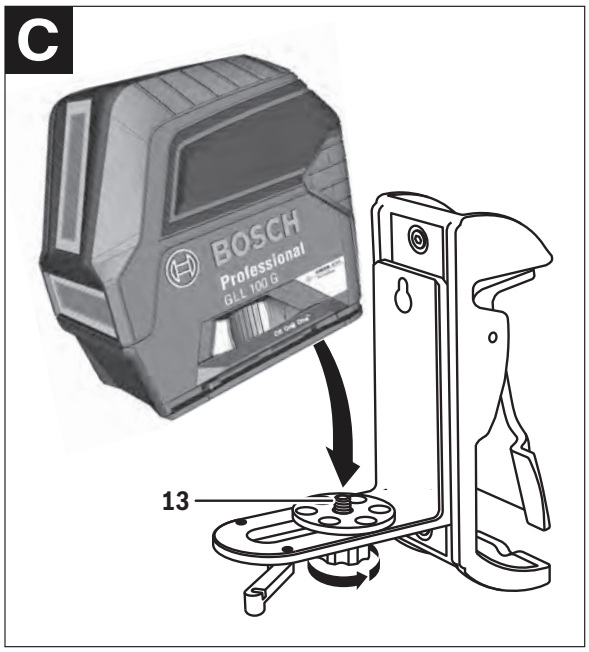


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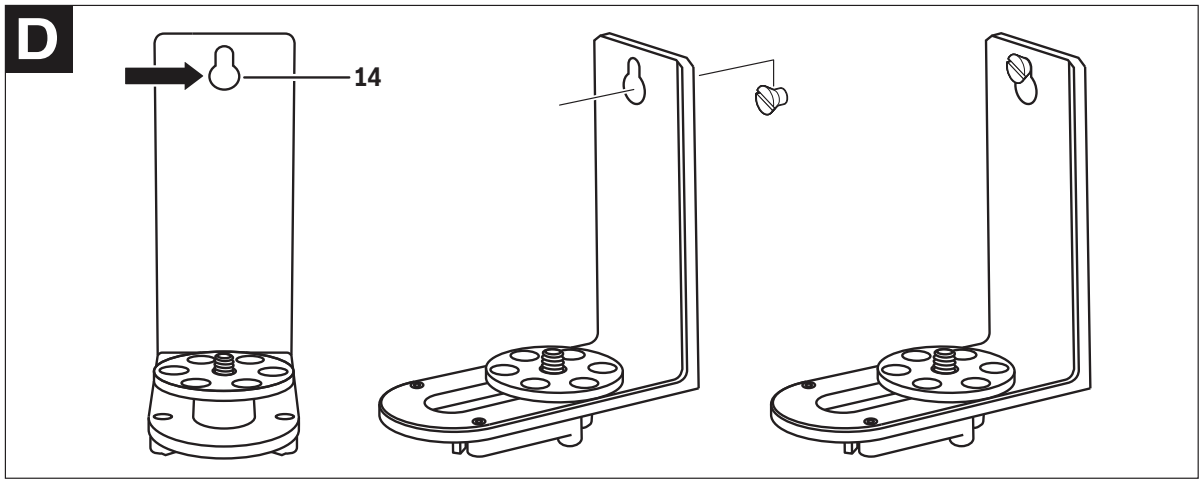




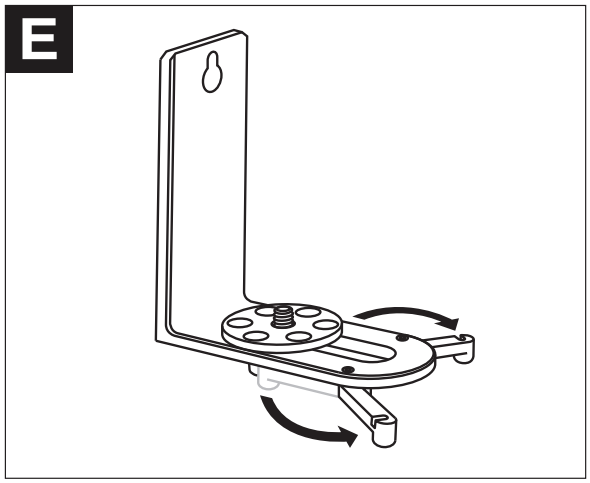


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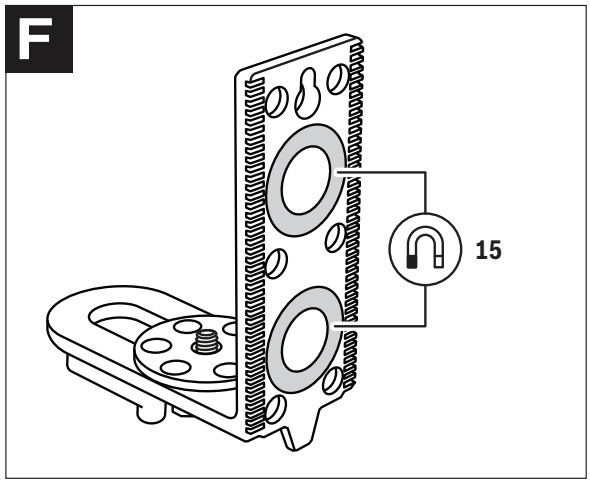
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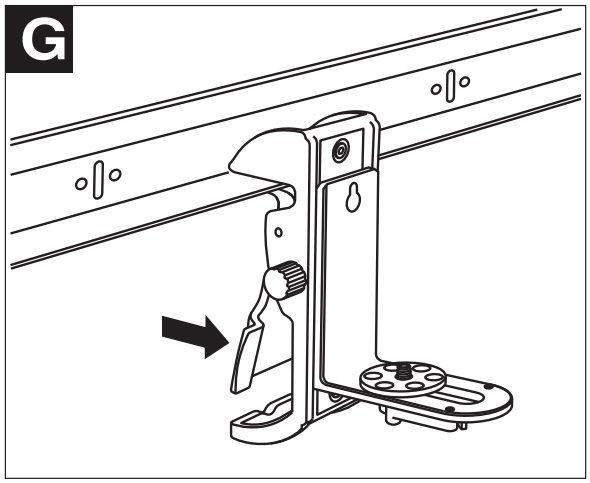
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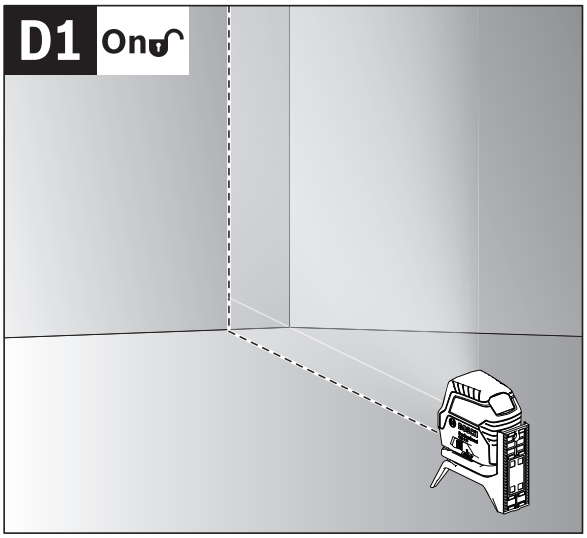
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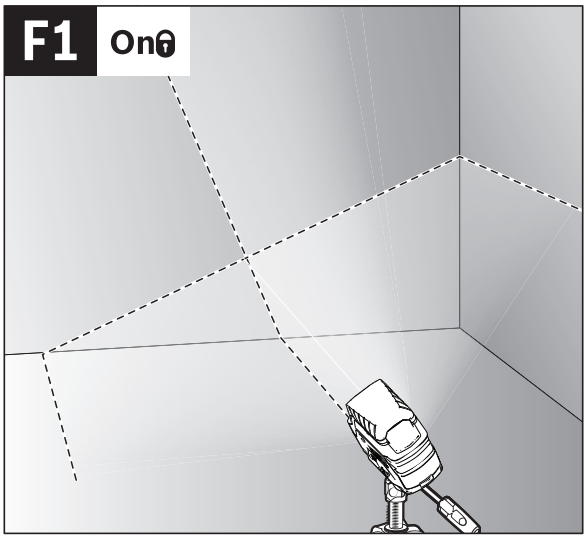


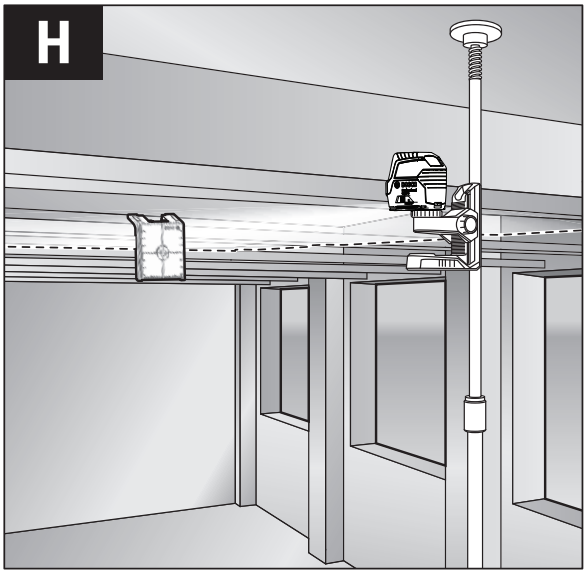
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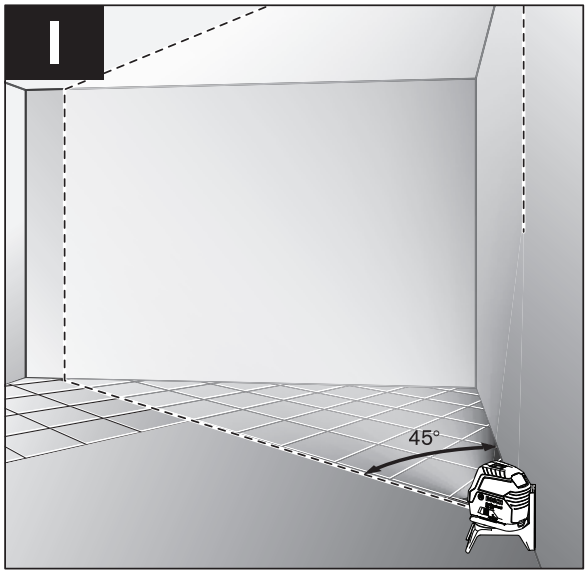


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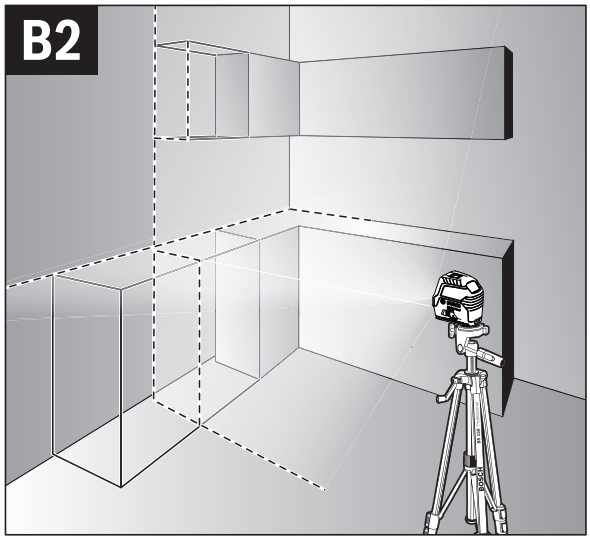


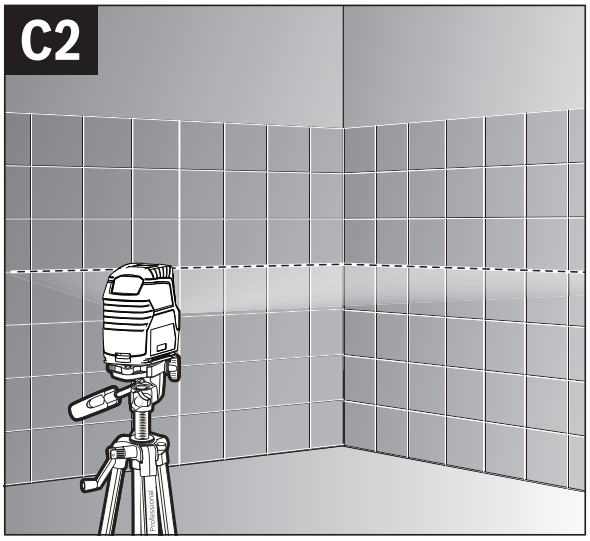


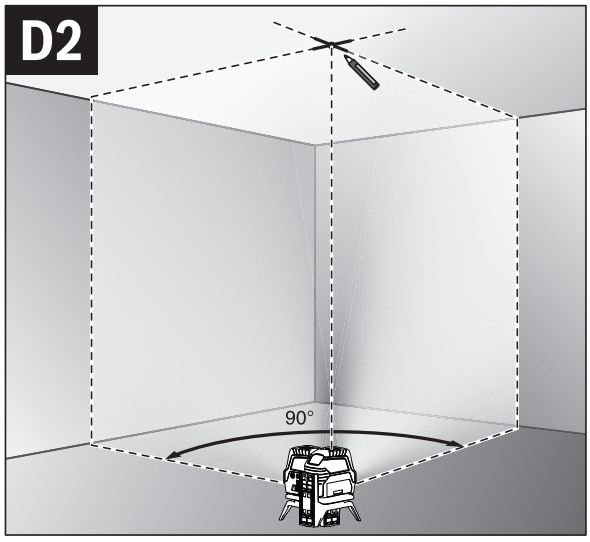


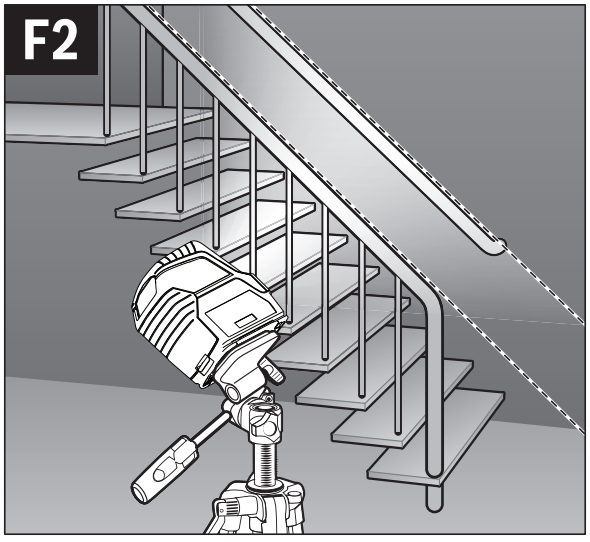


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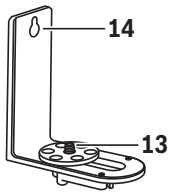




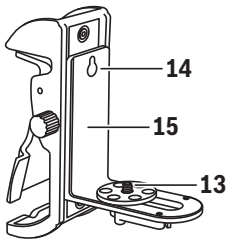




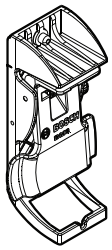
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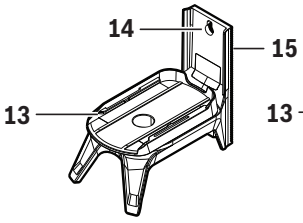
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(1 600 A00 19K)



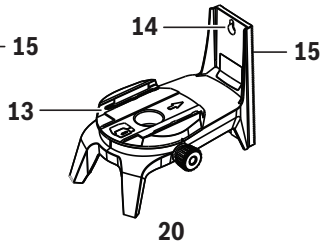
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BM 3 (1 600 A00 19K)



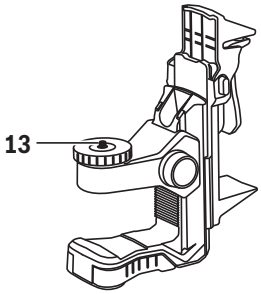
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1 600 A00 19K



19
RM 1 (0 601 092 610)



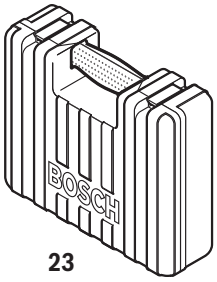
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RM 2 (0 601 092 710)



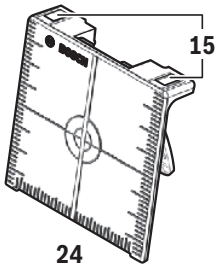
21
BM 1 (0 601 015 A11)



22
1 618 C01 44F



23
1 618 C01 44K



24
1 600 A00 XD1



25
BT 150
(0 601 096 B10)



26
BP 350
(0 601 015 B10)



27
1 608 M00 70K

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Safety Symbols

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	WARNING indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ CAUTION	CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.

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General Safety Rules

⚠ WARNING **Read all instructions. Failure to follow all instructions listed below may result in hazardous radiation exposure, electric shock, fire and/or serious injury.**

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term "tool" in the warnings listed below refers to your mains-operated (corded) tool or battery-operated (cordless) tool.

The following labels are on your laser tool for your convenience and safety. They indicate where the laser light is emitted by the tool. ALWAYS BE AWARE of their location when using the tool.



DO NOT direct the laser beam at persons or animals and do not stare into the laser beam yourself. This tool produces laser class 2 laser radiation and complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. This can lead to persons being blinded.



DO NOT remove or deface any warning or caution labels. Removing labels increases the risk of exposure to laser radiation.

Use of controls or adjustments or performance of procedures other than those specified in this manual, may result in hazardous radiation exposure.

ALWAYS make sure that any bystanders in the vicinity of use are made aware of the dangers of looking directly into the laser tool.

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DO NOT place the laser tool in a position that may cause anyone to stare into the laser beam intentionally or unintentionally. Serious eye injury could result.

ALWAYS position the laser tool securely. Damage to the laser tool and/or serious injury to the user could result if the laser tool falls.

ALWAYS use only the accessories that are recommended by the manufacturer of your laser tool. Use of accessories that have been designed for use with other laser tools could result in serious injury or unsatisfactory performance.

DO NOT use this laser tool for any purpose other than those outlined in this manual. This could result in serious injury or unsatisfactory performance.

DO NOT leave the laser tool "ON" unattended in any operating mode.

DO NOT disassemble the laser tool. There are no user serviceable parts inside. Do not modify the product in any way. Modifying the laser tool may result in hazardous laser radiation exposure.

Work area safety

Keep work area clean and well lit. Cluttered or dark areas invite accidents.

DO NOT operate the laser tool around children or allow children to operate the laser tool. Serious eye injury could result.

Do not operate the measuring tool in explosive environments, such as in the presence of flammable liquids, gases or dusts. Sparks can be created in the measuring tool which may ignite the dust or fumes.

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Electrical safety

Batteries can explode or leak, cause injury or fire. To reduce this risk, always follow all instructions and warnings on the battery label and package.

DO NOT short any battery terminals.

DO NOT charge alkaline 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.

DO NOT mix battery chemistries. Dispose of or recycle batteries per local code.

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

If laser radiation strikes your eye, you must deliberately close your eyes and immediately turn your head away from the beam.

Do not make any modifications to the laser equipment.

Do not use the laser viewing glasses as safety goggles. The laser viewing glasses are used for improved visualisation of the laser beam, but they do not protect against laser radiation.

Do not use the laser viewing glasses as sun glasses or in traffic. The laser viewing glasses do not afford complete UV protection and reduce colour perception.

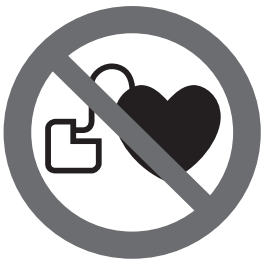
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DO NOT use any optical tools such as, but not limited to, telescopes or transits to view the laser beam. Serious eye injury could result.

Stay alert, watch what you are doing and use common sense when operating a 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 a tool may result in serious personal injury or incorrect measurement results.

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.

Magnets



Keep the tool, L-bracket (16), BM 1 (21), laser target (24), BM 3 (17), and magnetic rotating mounts (19, 20) away from cardiac pacemakers. The magnets of the tool and laser target plate generate a field that can impair the function of cardiac pacemakers.

Keep the tool, L-bracket (16), BM 1 (21), laser target (24), BM 3 (17), and magnetic rotating mounts (19, 20) 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.

Use and care

Use the correct tool for your application. The correct tool will do the job better and safer.

Do not use the tool if the switch does not turn it on and off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

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Store idle tool out of the reach of children and do not allow persons unfamiliar with the tool or these instructions to operate the tool. Tools are dangerous in the hands of untrained users.

Maintain tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the operation. If damaged, tool repaired before use. Many accidents are caused by poorly maintained tools.

Use the tool, accessories, etc., in accordance with these instructions and in the manner intended for the particular type of tool, taking into account the working conditions and the work to be performed. Use of the tool for operations different from those intended could result in a hazardous situation.

Service

Have your tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the tool is maintained.

Develop a periodic maintenance schedule for tool. When cleaning a tool be careful not to disassemble any portion of the tool since internal wires may be misplaced or pinched or may be improperly mounted. Certain cleaning agents such as gasoline, carbon tetrachloride, ammonia, etc. may damage plastic parts.

SAVE THESE INSTRUCTIONS.

Intended Use

The measuring tool is intended for determining and checking horizontal and vertical lines. The measuring tool is suitable for operation in enclosed working sites.

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Features

The numbering of the product features shown refers to the illustration of the tool on the graphic page.

1 Exit opening for laser beam
2 On/Off switch
3 Battery capacity indicator
4 Working without automatic leveling indicator
5 Button for vertical line operating mode
6 Button for horizontal line operating mode
7 Battery lid
8 Mounting slot
9 Tripod mount 1/4”
10 Tripod mount 5/8”
11 Serial number
12 Laser warning label
13 Tool Mount
14 Fastening slot
15 Magnets
16 L-bracket*
17 Bracket with Ceiling grid clip (BM 3)*
18 Ceiling grid clip*
19 Magnetic Rotating Mount (RM 1)*
20 Magnetic Rotating Mount w/ Fine Adjust (RM 2)*
21 Positioning device (BM 1)*
22 Protective pouch*
23 Case*
24 Laser target plate*
25 Compact tripod (BT 150)*
26 Telescopic rod (BP 350)*
27 Laser viewing glasses*

* The accessories illustrated or described are not included as standard delivery.

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Technical Data

Model Number	**GLL 100 G / GLL 100 GX**
Article number	0601063P1X
Working range [1]	100 ft (30 m)
Leveling Accuracy	±1/8 @ 33 ft (3 mm @ 10 m)
Self-leveling range, typically	±4°
Leveling duration, typically	< 4 s
Operating temperature	14° F to 122° F (-10° C to +50° C)
Storage temperature	-4° F to 158° F (-20° C to +70° C)
Max. altitude	6560 ft (2000 m)
Relative air humidity, max.	90%
Pollution degree according IEC 61010	2 [2]
Laser class	2
Laser type	500-540 nm, <10 mW
C_6	10
Divergence	50X10 mrad (full range)
Tripod mount	1/4”, 5/8”
Batteries	3 x 1.5 V LR06 (AA)
Operating duration in operating mode	
Cross-line operation	6 h
Line operation	12 h
Weight	1.08 lbs (0.49 kg)
Dimensions	4.4 x 2.2 x 4.2 in (112 x 55 x 116 mm)
Degree of protection	IP 54 (dust and splash water protected)

The tool can be clearly identified with the serial number on the type plate.

[1] The working range can be decreased by unfavorable environmental conditions (e.g. direct sun exposure).

[2] Conductive pollution occurs, or dry, non-conductive pollution occurs which becomes conductive due to condensation which is expected. In such conditions, equipment is normally protected against exposure to direct sunlight, precipitation, and full wind pressure, but neither temperature nor humidity is controlled.

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Preparation

Inserting/Replacing the Battery

Alkali-manganese batteries are recommended for the measuring tool.

– Fold open the battery lid **7** and insert the batteries. When inserting, pay attention to the correct polarity according to the representation on the inside of the battery compartment.

If the batteries become weak, the battery capacity indicator **3** will flash green. The laser lines will also flash every 10 mins for approx. 5 s. The measuring tool can be operated for approx. 1 hour after the first flashing. If the batteries become empty, the laser lines will flash again before automatic shutoff.

Always replace all batteries at the same time. Only use batteries from one brand and with the identical capacity.

Remove the batteries from the measuring tool when not using it for extended periods. When storing for extended periods, the batteries can corrode and self-discharge.

Working with the BM3 (see figures A – G)

The L-bracket **16** of the BM 3 **17** provides easy ability to properly position the laser line or lines.

It attaches to job site surfaces as follows:

– To drywall or wood walls using No. 8 screws

– To sit on the floor using retractable feet

– To steel studs using the magnets on the back

– To ceiling grid rails using the clip functionality

It can also be used as a mini tripod.

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•To attach the laser tool, screw the 1/4”-20 mount **13** into the tool and tighten. Turn the knob and tool together as necessary to properly position the laser line or lines.

•To adjust the height of the laser lines, adjust the height using the adjustment knob on the ceiling grid clip **18** of the BM 3 **17**.

Tip: It is recommended to clean the back of the L-bracket **16** before mounting via the magnets to make sure you have the optimal magnetic hold of the tool on the mounting surface. Cleaning this will reduce the amount of interference from any dust or debris between the magnets **15**, L-bracket **16** and the mounting surface on the jobsite.

Operation

Initial Operation

⚠ WARNING **Protect the measuring tool against moisture and direct sun exposure.**

Do not subject the measuring tool to extreme temperatures or variations in temperature. For example, do not leave it in vehicles for a long time. In case of large variations in temperature, allow the measuring tool to adjust to the ambient temperature before putting it into operation. In case of extreme temperatures or variations in temperature, the accuracy of the measuring tool can be impaired.

Avoid heavy impact to or falling down of the measuring tool. Damage to the measuring tool can impair its accuracy. After heavy impact or shock, compare the laser lines with a known horizontal or vertical reference line.

Switch the tool off during transport. Slide the On/Off switch **2** to the “Off” position when transporting the measuring tool. This locks the leveling unit, which can be damaged in case of intense movement.

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Switching On and Off

To save energy, only switch the measuring tool on when you are using it.

⚠ WARNING **Do not leave the switched-on measuring tool unattended and switch the measuring tool off after use.** Other persons could be blinded by the laser beam.

– To **switch on** the measuring tool, slide the On/Off switch **2** to position "On" (for working without automatic leveling) or to position "On" (for working with automatic leveling).

As soon as it is switched on, the measuring tool projects laser lines from the exit openings **1**.

⚠ WARNING **Do not point the laser beam at persons or animals and do not look into the laser beam yourself, not even from a long distance.**

– To **switch off** the measuring tool, slide the On/Off switch **2** to position "**Off** ".

The pendulum unit is locked when the tool is switched off.

When exceeding the maximum permitted operating temperature of 122° F (+ 50° C), the measuring tool switches off to protect the laser diode. After cooling down, the measuring tool is ready for operation and can be switched on again.

Automatic Shut-off

When no button on the measuring tool is pressed for approx. 120 minutes, the measuring tool automatically switches off to save battery life.

– To switch the measuring tool back on after automatic shutoff, you can either slide the On/Off switch **2** to position "**Off**" first and then switch the measuring tool back on, or press button **6**.

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Deactivating the Automatic Shut-off:

– To deactivate automatic shut-off, hold down button **6** for at least 3 s with the measuring tool switched on. When automatic shut-off is deactivated, the laser lines will flash briefly as confirmation.

Note: When the operating temperature exceeds 113° F (+ 45° C), the automatic shut-off can no longer be deactivated.

Activating the Automatic Shut-off:

– To activate the automatic shut-off, switch the measuring tool off and then on again.

Setting the Operating Mode (see figures B1–F1)

The measuring tool has several operating modes between which you can switch at any time:

– Cross-line operation: The measuring tool generates a horizontal and a vertical laser line facing frontward.

The laser lines cross at a 90° angle.

– Horizontal line operation: The measuring tool generates a horizontal laser line facing frontward.

– Vertical line operation: The measuring tool generates a vertical laser line facing frontward.

When the measuring tool is positioned in the room, the vertical laser line is displayed on the ceiling beyond the upper laser point.

When the measuring tool is positioned directly against a wall, the vertical laser line generates an almost completely allround laser line (360° line).

All modes can be selected both with and without automatic leveling.

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Working with Automatic Leveling

Sequence of actions		Horizontal line operation	Vertical line operation	Indicator 3 for battery capacity	Indicator 4 for working without automatic leveling	Figure
On/Off switch **2** in position "On"		● Cross-line operation	●	 green		**B2**
Mode	Press button for horizontal line operating mode **6** once	●	—	 green		**C2, H**
	Press button for vertical line operating mode **5** once	—	●	 green		**I, D2**
	Press button for vertical line operating mode **5** once and horizontal line operating mode **6** once	●	●	 green		**F1, F2**

If the measuring tool is outside of the self-leveling range, the laser lines will flash quickly.

If during work with automatic leveling you switch to the "working without automatic leveling" mode (On/Off switch **2** in position "On"), the first combination of this mode's lines is always activated.

Working without Automatic Leveling

The laser lines flash slowly in the "working without automatic leveling" mode.

If during work without automatic leveling you switch to the "working with automatic leveling" mode (On/Off switch **2** in position "On"), the first combination of this mode's indicators is always activated.

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Automatic Leveling

Working with Automatic Leveling (see figures B1–E1)

– Position the measuring tool on a level, firm support or attach it to the rotating mount **19** and **20**.

– For work with automatic leveling, slide the On/Off switch **2** to position "On".

After switching on, the leveling function automatically compensates irregularities within the self-leveling range of ±4°. The measuring tool is levelled in as soon as the laser lines no longer flash.

The laser beam will flash if the automatic leveling is not possible. This can be caused by placing the measuring tool on a surface that deviates by more than 4° from the horizontal plane. In this case, bring the measuring tool to the level position and wait for the self-leveling to take place.

In case of ground vibrations or position changes during operation, the measuring tool is automatically levelled in again. To avoid errors by moving the measuring tool, check the position of the laser beams with regard to the reference points upon re-leveling.

Working without Automatic Leveling (see figure F1)

– For work without automatic leveling, slide the On/Off switch **2** to position "On". When automatic leveling is switched off, the laser lines will flash continuously.

When automatic leveling is switched off, you can hold the measuring tool freely in your hand or place it on an inclined surface. The laser beams no longer necessarily run perpendicular to each other.

Leveling Accuracy

Influences on Accuracy

The ambient temperature has the greatest influence. Temperature differences occurring from the ground upward can divert the laser beam.

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In addition to external influences, device-specific influences (e.g. falls or heavy impacts) can also lead to deviations. For this reason, check the leveling accuracy each time before beginning work.

First, check both the height as well as the leveling accuracy of the horizontal laser line, then the leveling accuracy of the vertical laser line.

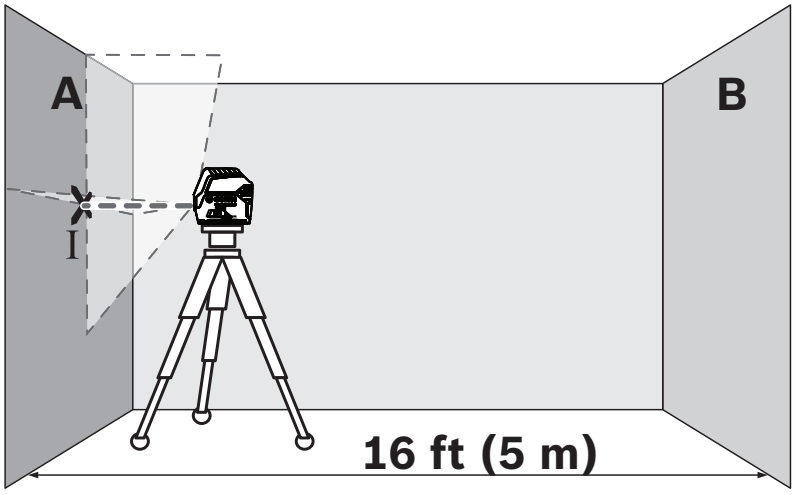
Should the measuring tool exceed the maximum deviation during one of the tests, please have it repaired by a Bosch after-sales service.

Checking the Height Accuracy of the Horizontal Line

For this check, a free measuring distance of 16 ft (5 m) on a firm surface between two walls A and B is required.

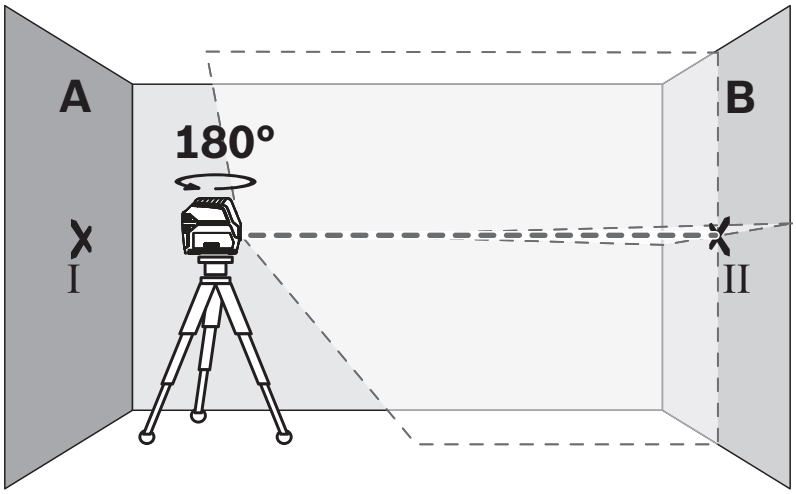
– Mount the measuring tool onto a tripod or place it on a firm and level surface close to wall A. Switch on the measuring tool. Select cross-line operation with automatic leveling.

– Direct the laser against the close wall A and allow the measuring tool to level in. Mark the center of the point where the laser lines cross each other on the wall (point I).



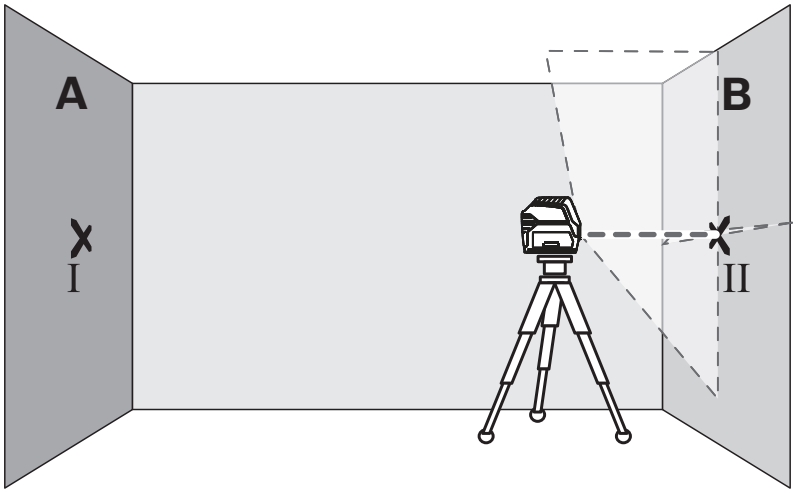
– Turn the measuring tool by 180°, allow it to level in and mark the cross point of the laser lines on the opposite wall B (point II).

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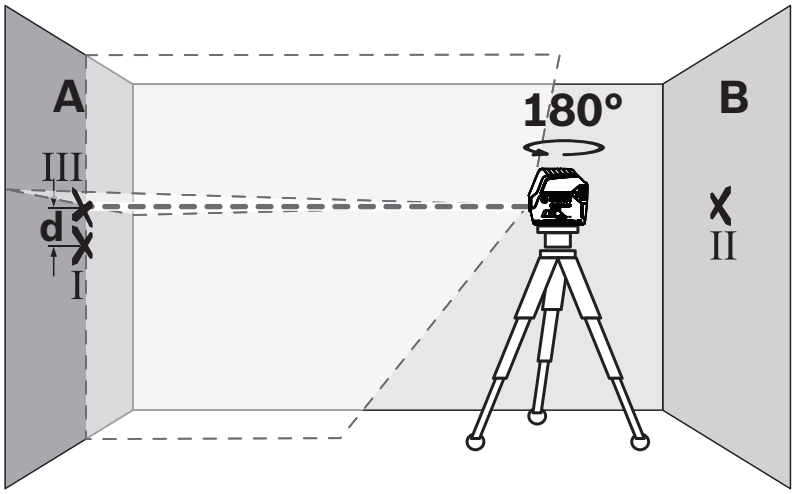
– Without turning the measuring tool, position it close to wall B. Switch the measuring tool on and allow it to level in.

– Align the height of the measuring tool (using a tripod or by underlaying, if required) in such a manner that the cross point of the laser lines is projected against the previously marked point II on the wall B.



– Without changing the height, turn around the measuring tool by 180°. Direct it against the wall A in such a manner that the vertical laser line runs through the already marked point I. Allow the measuring tool to level in and mark the cross point of the laser lines on the wall A (point III).

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– The difference d of both marked points I and III on wall A indicates the actual height deviation of the measuring tool.

The maximum permitted deviation dmax can be calculated as follows: dmax = double the distance between the walls x 0.0118 in (0.3 mm) Example: If the distance between the walls is 16 ft (5 m), the maximum deviation is dmax = 2 x 16 ft x 0.0118 in = 0.118 in (2 x 5m x 0.3 mm/m = 3mm). The marks must therefore be maximum 0.118 in (3 mm) apart.

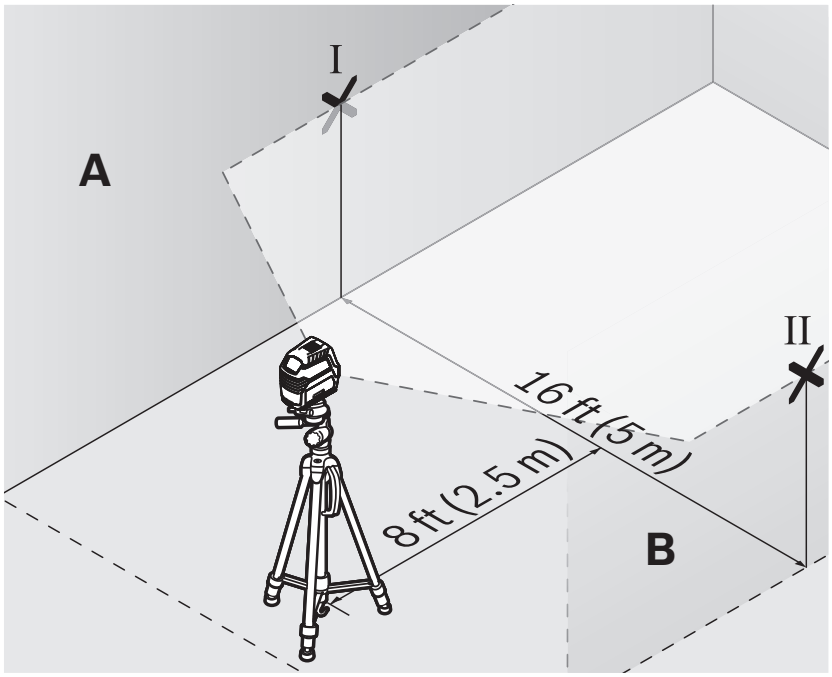
Checking the Leveling Accuracy of the Horizontal Line

For the check, an open area of approx. 16 x 16 ft is required.

– Set up the measuring tool on a firm, level surface between both walls A and B. Allow the measuring tool to level in while in horizontal operation.

– At a distance of 8 ft (2.5 m) from the measuring tool, mark the center of the laser line (point I on wall A and point II on wall B) on both walls.

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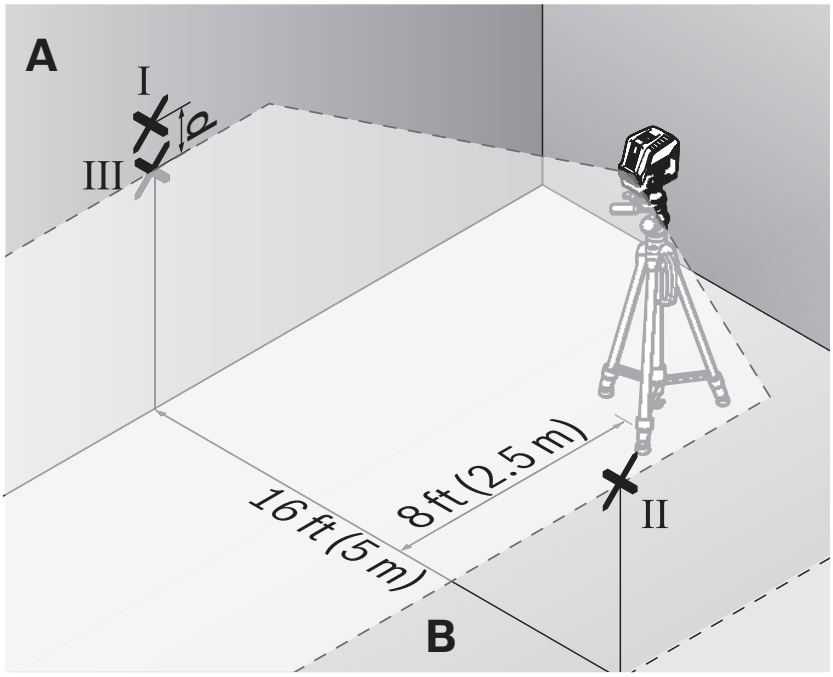


– Set up the measuring tool 16 ft (5 m) away turned by 180° and allow it to level in.

– Align the height of the measuring tool (using a tripod or by underlaying, if required) in such a manner that the center of the laser line is projected exactly against the previously marked point II on wall B.

– Mark the center of the laser line as point III (vertically above or below point I) on the wall A.

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– The difference d of both marked points I and III on wall A indicates the actual deviation of the measuring tool from the level plane.

The maximum permitted deviation dmax can be calculated as follows: dmax = double the distance between the walls x 0.0118 in (0.3 mm) Example: If the distance between the walls is 16 ft (5 m), the maximum deviation is dmax = 2 x 16 ft x 0.0118 in = 0.118 in (2 x 5m x 0.3 mm/m = 3mm). The marks must therefore be maximum 0.118 in (3 mm) apart.

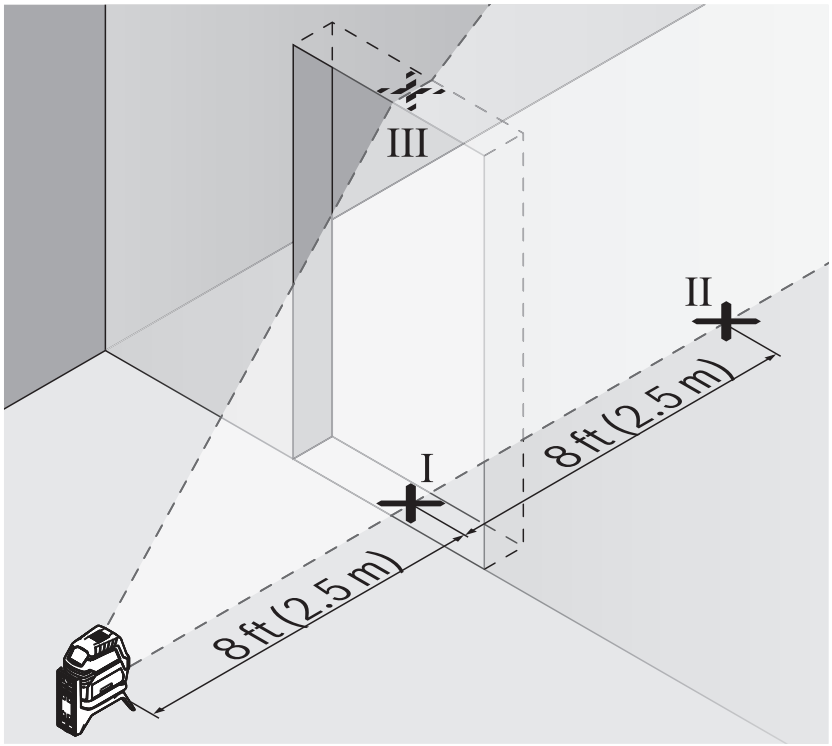
Checking the Leveling Accuracy of the Vertical Line

For this check, a door opening is required with at least 8 ft (2.5 m) of space (on a firm surface) to each side of the door.

– Position the measuring tool on a firm, level surface (not on a tripod) 8 ft (2.5 m) away from the door opening. Allow the measuring tool to level in while in cross-line operation mode, and direct the laser beams at the door opening.

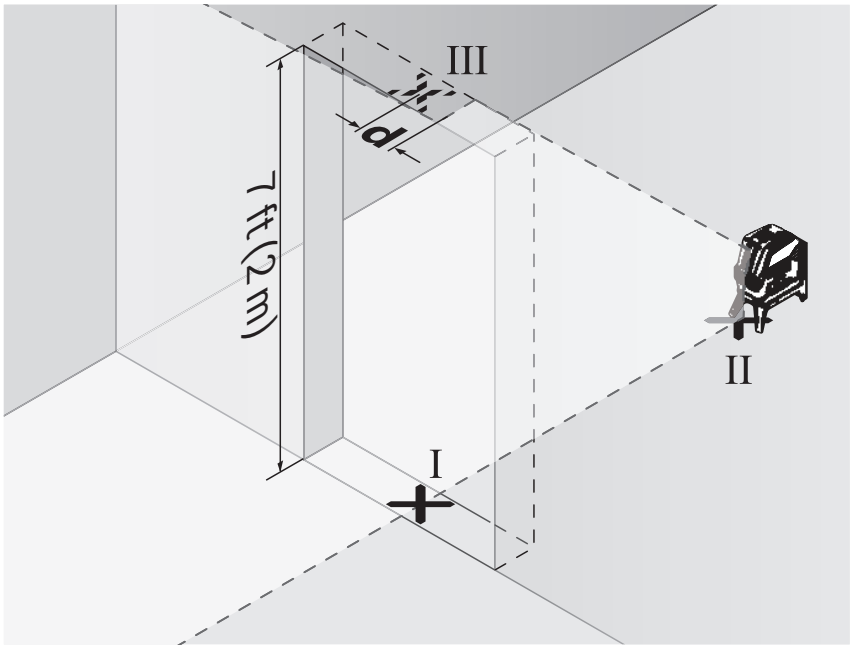
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– Mark the center of the vertical laser line at the floor of the door opening (point I), at a distance of 16 ft (5 m) beyond the other side of the door opening (point II) and at the upper edge of the door opening (point III).



– Position the measuring tool on the other side of the door opening directly behind point II. Allow the measuring tool to level in and align the vertical laser line in such a manner that its center runs exactly through points I and II.

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– The difference d between point III and the center of the laser line at the upper edge of the door opening results in the actual deviation of the measuring tool from the vertical plane.

– Measure the height of the door opening.

The maximum permitted deviation dmax is calculated as follows:
dmax = double height of the door opening x 0.0118 in (0.3 mm/m)
Example: With a door opening height of 7 ft (2 m), the maximum permitted deviation is
dmax = 2 x 7 ft x 0.0118 in = 0.0472 in (2 x 2 m x 0.3 mm/m = 1.2 mm).
Thus, the marks must not be more than 0.0472 in (1.2 mm) apart.

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Working Advice

• For marking, always use only the center of the laser line. The width of the laser line changes with distance.

Working with the Tripod (Accessory)

A tripod offers a stable, height-adjustable measuring support. Position the measuring tool with the 1/4” tripod mount **10** onto the thread of the tripod or a commercially available camera tripod. For fastening to a commercially available construction tripod, use the 5/8” tripod mount **11**. Tighten the measuring tool with the tripod mounting stud.

– Adjust the tripod before switching on the measuring tool.

Fastening with the Positioning Device (Accessory) (see figure H)

With the positioning devices **16, 17, 21,** you can fasten the measuring tool, e.g., to vertical surfaces, pipes or magnetizable materials. The positioning device is also suitable for use as a ground tripod and makes the height adjustment of the measuring tool easier.

– Adjust the positioning device **16, 17, 21** before switching on the measuring tool.

Working with the Laser Target Plate (see figure H)

The laser target plate **24** increases the visibility of the laser beam under unfavorable conditions and at long distances.

The reflective part of the laser target plate (located in the center of the plate) improves the visibility of the laser line. Thanks to the transparent strip, the laser line is also visible from the back side of the laser target plate.

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Laser Viewing Glasses (Accessory)

The laser viewing glasses filter out the ambient light. This makes the green light of the laser appear brighter to the eyes.

Work Examples (see figures B2–F2, H and I)

Application examples for the measuring tool can be found on the graphics pages.

Always position the measuring tool close to the surface or edge you want to check and allow it to level in prior to each measurement.

Always measure the distances between the laser beam and a surface or edge at two points as far as possible away from each other.

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Maintenance and Service

⚠ WARNING **Store and transport the tool only in the supplied protective case.**

Keep the tool clean at all times.

Do not immerse the tool into water or other fluids.

Wipe off debris using a moist and soft cloth. Do not use any cleaning agents or solvents.

Regularly clean the surfaces of the laser beam outlets in particular, and pay attention to any fluff of fibers.

If the tool should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an authorized after-sales service center for Bosch power tools.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the type plate of the tool.

ENVIRONMENT PROTECTION



Recycle raw materials & batteries instead of disposing of waste. The unit, accessories, packaging & used batteries should be sorted for environmentally friendly recycling in accordance with the latest regulations.

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30 Day Money Back Refund or Replacement -

If you are not completely satisfied with the performance of your laser and measuring tools, for any reason, you can return it to your Bosch dealer within 30 days of the date of purchase for a full refund or replacement. To obtain this 30-Day Refund or Replacement, your return must be accompanied by the original receipt for purchase of the laser or optical instrument product. A maximum of 2 returns per customer will be permitted.

SELLER'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. To make a claim under this Limited Warranty, you must return the complete Bosch laser or measuring tool, transportation prepaid, to any BOSCH Factory Service Center or Authorized Service Center. Please include a dated proof of purchase with your tool. For locations of nearby service centers, please use our on-line service locator.

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To make a claim under this Limited Warranty, you must return the complete product, transportation prepaid. For details to make a claim under this Limited Warranty.

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