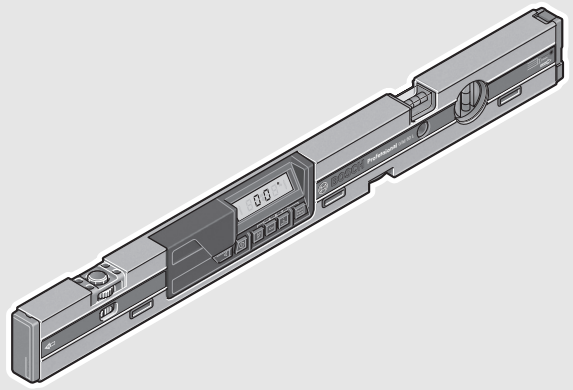

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Power Tools Division
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Germany

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1 618 C00 62X (2012.08) T / 223 **XXX**

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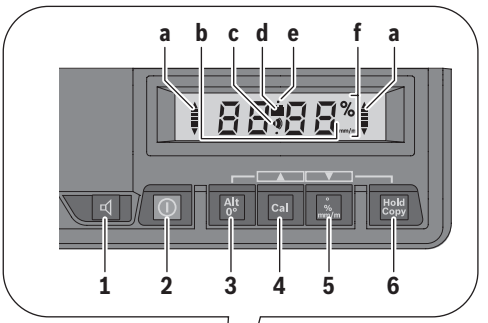
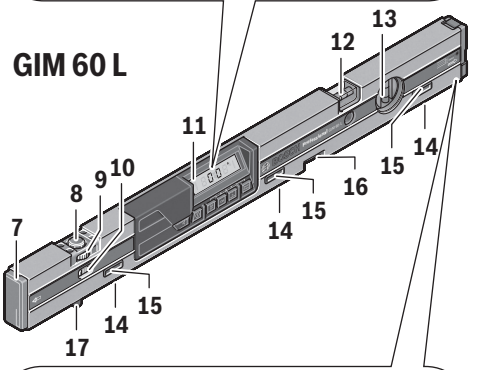
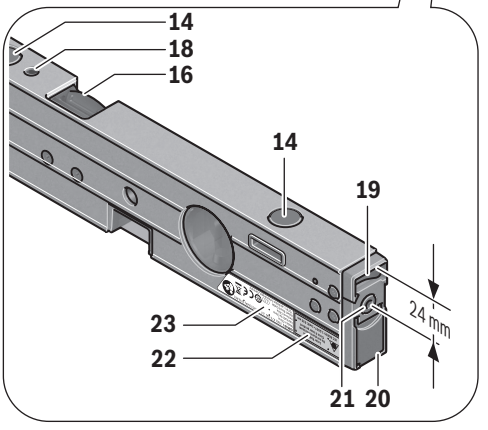
GIM 60 L Professional

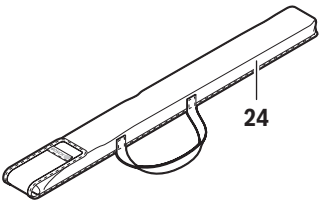
BOSCH

de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
nl Oorspronkelijke gebruiksaanwijzing
da Original brugsanvisning
sv Bruksanvisning i original
no Original driftsinstruks
fi Alkuperäiset ohjeet
el Πρωτότυπο οδηγιών χρήσης
tr Orijinal işletme talimatı
pl Instrukcja oryginalna
cs Původní návod k používání
sk Pôvodný návod na použitie
hu Eredeti használati utasítás
ru Оригинальное руководство по эксплуатации
uk Оригінальна інструкція з експлуатації
ro Instrucțiuni originale
bg Оригинална инструкция
sr Originalno uputstvo za rad
sl Izvirna navodila
hr Originalne upute za rad
et Algupärane kasutusjuhend
lv Instrukcijas oriģinālvalodā
lt Originali instrukcija
ja オリジナル取扱説明書
cn 正本使用说明书
tw 正本使用說明書
ko 사용 설명서 원본
ar تعليمات التشغيل الأصلية
fa راهنمای طرز کار اصلی









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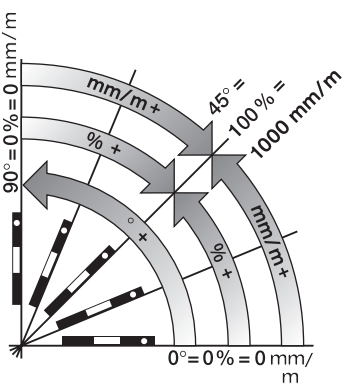

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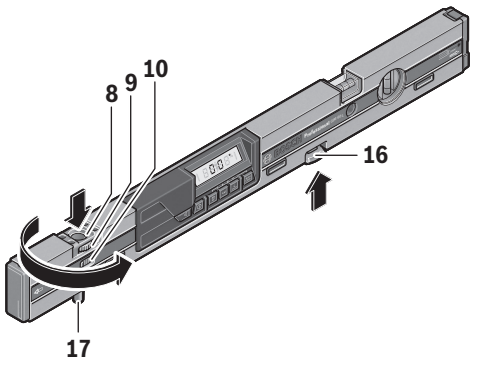

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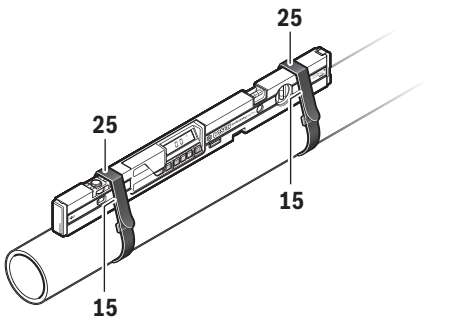

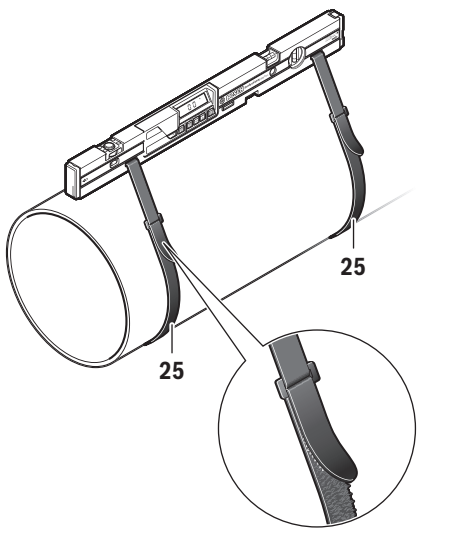

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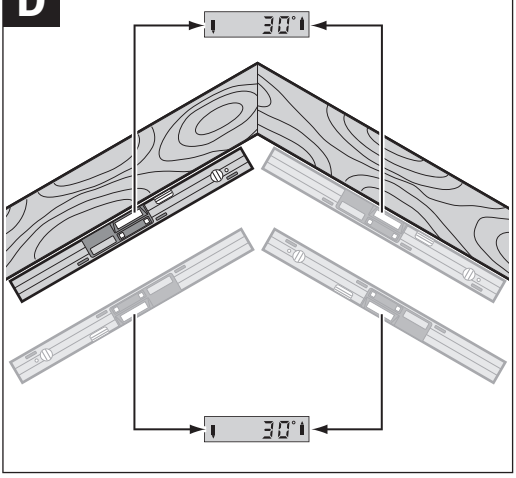
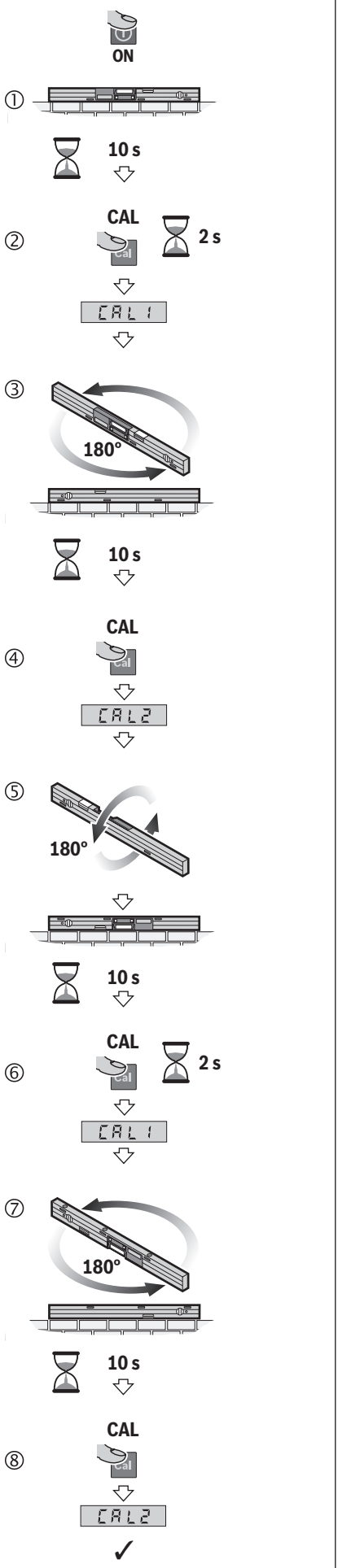


E



F

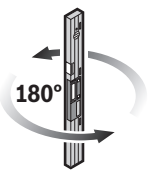
① ON

10 s

② CAL 2 s

CAL 1

③

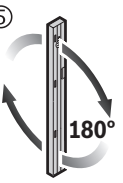


10 s

④ CAL

CAL 2

⑤

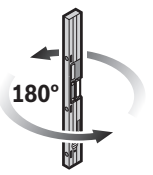


10 s

⑥ CAL 2 s

CAL 1

⑦



10 s

⑧ CAL

CAL 2

✓

Sollte das Messwerkzeug trotz sorgfältiger Herstellungs- und Prüfverfahren einmal ausfallen, ist die Reparatur von einer autorisierten Kundendienststelle für Bosch-Elektrowerkzeuge ausführen zu lassen. Öffnen Sie das Messwerkzeug nicht selbst.

Geben Sie bei allen Rückfragen und Ersatzteilbestellungen bitte unbedingt die 10-stellige Sachnummer laut Typenschild des Messwerkzeugs an.

Senden Sie im Reparaturfall das Messwerkzeug in der Schutztasche **24** ein.

Kundendienst und Kundenberatung

Der Kundendienst beantwortet Ihre Fragen zu Reparatur und Wartung Ihres Produkts sowie zu Ersatzteilen. Explosionszeichnungen und Informationen zu Ersatzteilen finden Sie auch unter:
www.bosch-pt.com
Das Bosch-Kundenberater-Team hilft Ihnen gerne bei Fragen zu Kauf, Anwendung und Einstellung von Produkten und Zubehören.

www.powertool-portal.de, das Internetportal für Handwerker und Heimwerker.
www.ewbc.de, der Informations-Pool für Handwerk und Ausbildung.

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Entsorgung

Messwerkzeuge, Zubehör und Verpackungen sollen einer umweltgerechten Wiederverwertung zugeführt werden.

Werfen Sie Messwerkzeuge und Akkus/Batterien nicht in den Hausmüll!

Nur für EU-Länder:

Gemäß der europäischen Richtlinie 2002/96/EG müssen nicht mehr gebrauchsfähige Messwerkzeuge und gemäß der europäischen Richtlinie 2006/66/EG müssen defekte oder verbrauchte Akkus/Batterien getrennt gesammelt und einer umweltgerechten Wiederverwendung zugeführt werden.

Nicht mehr gebrauchsfähige Akkus/Batterien können direkt abgegeben werden bei:
Deutschland
Recyclingzentrum Elektrowerkzeuge
Osteroder Landstraße 3
37589 Kalefeld
Schweiz
Batrec AG
3752 Wimmis BE

Änderungen vorbehalten.

English

Safety Notes

Working safely with the measuring tool is possible only when the operating and safety information are read completely and the instructions contained therein are strictly followed. Never make warning labels on the measuring tool unrecognisable. SAVE THESE INSTRUCTIONS.

► **Caution – The use of other operating or adjusting equipment or the application of other processing methods than those mentioned here, can lead to dangerous radiation exposure.**

- ► **The measuring tool is provided with a warning label (marked with number 22 in the representation of the measuring tool on the graphics page).**

- ► **If the text of the warning label is not in your national language, stick the provided warning label in your national language over it before operating for the first time.**
- ► **Do not direct the laser beam at persons or animals and do not stare into the laser beam yourself.** This measuring tool produces laser class 2 laser radiation according to IEC 60825-1. This can lead to persons being blinded.
- ► **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.
- ► **Have the measuring tool repaired only through qualified specialists using original spare parts.** This ensures that the safety of the measuring tool is maintained.
- ► **Do not allow children to use the laser measuring tool without supervision.** They could unintentionally blind other persons or themselves.
- ► **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.

Keep the measuring tool away from cardiac pacemakers. The magnets **14** generate a field that can impair the function of cardiac pacemakers.

- ► **Keep the measuring tool away from magnetic data medium and magnetically-sensitive equipment.** The effect of the magnets **14** can lead to irreversible data loss.

Product Description and Specifications

Please unfold the fold-out page with the representation of the measuring tool and leave it unfolded while reading the operating instructions.

Intended Use

The measuring tool is intended for precise measuring and transferring of grades.

The measuring tool is optimized for indoor use.

Product Features

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

1 Audio signal button
2 On/Off button for grade measurement/display
3 **“Alt 0°”** button for changing the zero point
4 **“CAL”** button for calibration/increasing the display value
5 **“° / % / mm/m”** button for changing the unit of measure/reducing the display value
6 **“Hold/Copy”** button
7 Battery lid, grade measurement
8 Button for extracting the levelling foot
9 Adjusting screw of the levelling foot
10 Switch for retracting the levelling foot
11 Display
12 Spirit level, horizontal
13 Spirit level, vertical
14 Magnets
15 Opening for strap attachment
16 Pedestal
17 Levelling foot
18 Tripod mount 1/4"
19 Laser On/Off button
20 Battery lid, laser
21 Exit opening for laser beam
22 Laser warning label
23 Serial number
24 Protective pouch
25 Fastening strap
26 Tripod*

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

Display Elements

- **a** Alignment aides
- **b** Reading
- **c** Audio signal indicator
- **d** Battery low indicator
- **e** Indicator for changed zero point
- **f** Unit of measure

Technical Data

Digital level	GIM 60 L
Article number	3 601 K76 300
Measuring range	0 – 360° (4 x 90°)
Measuring accuracy – 0°/90° – 1° – 89°	 ±0.05° ±0.2°
Working range of laser [1)]	30 m
Levelling accuracy of laser	±0.5 mm/m
Clearance of laser exit – bottom edge of measuring tool	24 mm
Laser class	2
Laser type	635 nm, < 1 mW
Laser beam diameter (at 25 °C) approx. – at 5 m distance – at 10 m distance	 3.5 mm 6 mm
Operating temperature	– 10 °C … + 50 °C
Storage temperature	– 20 °C … + 70 °C
Relative air humidity, max.	90 %
Tripod mount	1/4"
Batteries – Grade measurement – Laser operation	 1 x 9 V 6LR61 2 x 1.5 V LR03 (AAA)
Operating life time, approx. – Grade measurement – Laser operation	 300 h 20 h
Weight according to EPTA-Procedure 01/2003	0.9 kg
Dimensions (length x width x height)	600 x 27 x 59 mm

1) The working range can be decreased by unfavourable environmental conditions (e.g. direct sun irradiation).

The measuring tool can be clearly identified with the serial number **23** on the type plate.

Assembly

Inserting/Replacing the Battery

The measuring tool has two separate electric circuits: The grade measurement and display are powered by a different battery than the laser.

Alkali-manganese batteries are recommended for the measuring tool.

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

Inserting/Replacing the Battery for Grade Measurement

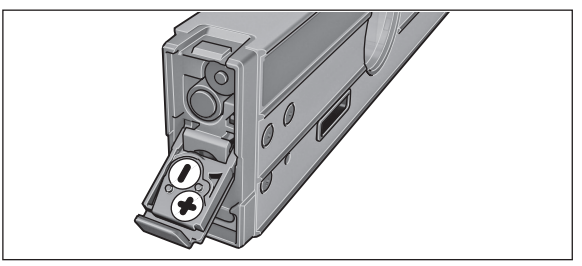
Carefully remove the battery lid **7** with the battery holder from the measuring tool. Pay attention that neither the connection cables of the battery nor the battery lid become damaged. Damage on the supporting surfaces of the battery compartment **7** can lead to faulty measurements.

Connect the battery to the battery tray observing the correct polarity. Insert the battery lid with the battery tray into the measuring tool in such a manner that the connection cables are not pinched.

When switching on the grade measurement for the first time after changing the battery, all display elements light up for 1 s and an audio signal sounds. All saved settings (measuring mode, set unit of measure) are deleted when changing the battery.

When the battery low indicator **d** lights up, the battery must be replaced.

Inserting/Replacing the Batteries for the Laser



Fold out the battery lid **20** and insert the batteries. When inserting, pay attention to the correct polarity according to the representation on the inside of the battery lid.

When the laser no longer lights up, the batteries must be replaced.

Note: The battery low indicator **d** on the display does not refer to the laser batteries.

► **Make sure to switch the laser off before changing the batteries.** An accidentally switched on laser can blind other persons.

Always replace all batteries intended for laser operation at the same time. Only use same-brand battery with the identical battery capacity.

Operation

Initial Operation

► **Protect the measuring tool against moisture and direct sun light.**

► **Do not subject the measuring tool to extreme temperatures or variations in temperature.** As an example, do not leave it in vehicles for 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.** After severe exterior effects to the measuring tool, it is recommended to carry out an accuracy check (see "Accuracy Check and Calibration of the Measuring Tool", page 18) each time before continuing to work.

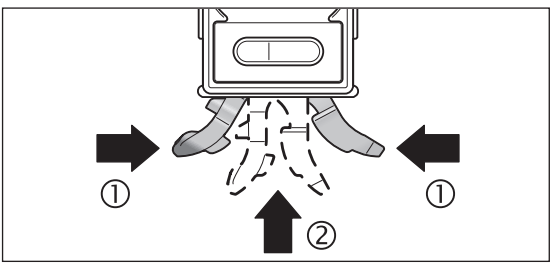
► **Keep the supporting surfaces of the measuring tool clean and protect them against impact and shock.** Debris particles or deformations can lead to faulty measurements.

Setting Up/Attaching the Measuring Tool

To measure or transfer grades, the measuring tool can not only be placed on or against surfaces, but can also be set up or fastened in various ways.

Setting up with the levelling mechanics (e. g. on uneven floors) (see figure B):

– Briefly press against the pedestal **16** to extract it. Press button **8** to extract the levelling foot **17**. Adjust the height of the levelling foot by turning adjusting screw **9** so that the laser beam runs along the surface to be measured or the desired grade is displayed as the measuring value **b**.



– For work without levelling mechanics, retract pedestal **16** and levelling foot **17**. For this, press both parts of the pedestal (①) together and then slide the pedestal **16** into the measuring tool (②) until it can be heard to engage. To retract the levelling foot **17**, press switch **10** sideways.

Fastening to the tripod:

– Position the measuring tool with the 1/4" tripod mount **18** onto the quick-change plate of the tripod **26** or a commercially available camera tripod. Tighten the measuring tool with the quick-change plate locking screw.

Attachment with magnets:

– Place the measuring tool against an adequate magnetic object via the magnets **14**.

► Check the secure attachment of the measuring tool. Improperly secured measuring tools can fall down and cause injury to yourself or other persons. A falling down measuring tool can become damaged or cause damage.

Attachment with fastening straps (see figure C):

– Thread the fastening straps **25** through the openings **15** and attach the measuring tool with both straps to a pipe or similar. Pay attention that the Velcro attachment of the strap end is pressed against the fastening strap. For thin pipes, thread the fastening strap through the openings with the smooth side facing outward and wrap it once more around the measuring tool; for thick pipes, thread the fastening strap through the openings with the smooth side facing inward.

► **Always secure the measuring tool with both fastening straps and check the tight seating of the straps.** The holding force of the straps **25** depends on the nature of the material that they are being fastened to. Loosely attached measuring tools can slip down and become damaged or cause damage.

► **Do not allow children to use the fastening straps 25 without supervision.** Possible danger of injury through the fastening straps.

Switching the Grade Measurement and Display On and Off

To **switch on** the grade measurement and display, press the On/Off button **2**. The measuring tool is in grade measurement mode with standard zero point.

To **switch off** the grade measurement and display, press the On/Off button **2** again.

When no button on the measuring tool is pressed for approx. 30 minutes and its grade is not changed by more than 1.5°, then the grade measurement and display are automatically switched off to save the battery. This does not affect the laser.

Switching the Laser On and Off

To **switch on** the laser, press the On/Off button **19** to position **"I"**.

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

To **switch off** the laser, press the On/Off button **19** to position **"0"**.

► **Do not leave the measuring tool unsupervised with the laser switched on, and switch the laser off after use.** Other persons could be blinded by the laser beam.

When not using the laser, switch it off in order to save energy.

Changing the Unit of Measure (see figure A)

You can change between the units of measure "°", "%" and "mm/m" at any time. For this, press the button for changing the unit of measure **5** as often as required until the desired setting is displayed in indicator **f**. The current measuring value is automatically converted.

The unit-of-measure setting is retained when switching the measuring tool on or off.

Switching the Audio Signal On/Off

The audio signal can be switched on/off with the audio signal button **1**. When the audio signal is switched on, indicator **c** appears in the display.

The signal tone setting is maintained after switching the measuring tool off and on again.

Measured-value Indication and Alignment Aides

For each movement of the measuring tool, the measured value is updated. After moving the measuring tool to any extent, wait until the measured value no longer changes before reading the value.

Depending on the position of the measuring tool, the measured value and the unit of measure are indicated in the display rotated by 180°. Thus, the indication can also be read for overhead work.

By means of the alignment aides **a** in the display the measuring tool indicates the direction in which it has to be inclined, in order to reach the target value. For standard measurements, the target value is the horizontal or the vertical line; in **"Copy"** mode, the target value is the saved measuring value and when changing the zero point, the target value is the saved zero point.

When the target value is reached, the arrows of the alignment aides **a** go out and a continuous audio signal sounds when the audio signal is switched on.

Measuring Functions

Holding/Copying a Measured Value (see figure D)

Two functions can be controlled with the **"Hold/Copy"** button **6**:

– Holding ("Hold") of a measured value, even when the measuring tool is moved afterwards (e.g., because the measuring tool is in a position, in which the display cannot be read);
– Copying ("Copy") of a measured value.

"Hold" function:

– Press the **"Hold/Copy"** button **6**. The current measured value **b** is held in the display; all display elements flash, with exception of the measured value.
– To switch to the **"Copy"** function, press the audio signal button **1**; to start a new measurement, press the **"Hold/Copy"** button **6**.

"Copy" function:

– Switch the audio signal on (see "Switching the Audio Signal On/Off", page 17).
– Press the **"Hold/Copy"** button **6**. The current measuring value is saved. A short beep sounds, the indicators for unit of measure **f** and audio signal **c** flash.
– Coarsely measured values can be corrected before transferring them: To increase the saved value, press the button for increasing the display value **4**; to decrease the value, press the button for decreasing the display value **5**.
– Position the measuring tool at the target location, where the measured value is to be transferred. As shown in the figure, the alignment of the measuring tool is irrelevant. The alignment aides **a** indicate the direction in which the measuring tool has to be moved, in order to reach the angle to be copied. When reaching the saved value, an audio signal sounds and the alignment aides **a** go out.
– Press the **"Hold/Copy"** button **6** again to start a new measurement.

Changing the Zero Point

For easier checking of grades (e.g. 45°), the zero point of a measurement can be changed.

Align the measuring tool by placing it against a reference workpiece in such a manner that the desired new zero point is displayed as the measuring value (e.g., 45.1°). Press the **"Alt 0°"** button **3**. The measured value **b** and the indicator for a changed zero point **e** flash.

Coarsely measured values can be corrected as long as the measured value **b** flashes: To increase the saved value, press the button for increasing the display value **4**; to decrease the value, press the button for decreasing the display value **5** (e.g. from 45.1° to 45.0°). 3 s after the last button actuation, the displayed grade value is saved as the new reference value.

After the value has been saved, the flashing indicator **e** indicates the changed zero point. The current measuring value, with reference to the new zero point, is displayed in measuring indicator **b**; the alignment aides and the audio signals also refer to the new zero point. Example: For a 43.8° grade with reference to the horizontal line and a saved zero point of 45°, the value 1.2° is displayed as the measuring value.

To return to the standard zero point 0°, press either of buttons **"Alt 0°" 3**, **"Hold/Copy" 6** or **"CAL" 4**. The indicator for changed zero point **e** goes out.

Contact-free Measuring/Transferring of Grades

With the laser, it is possible to measure and transfer grades contact-free, even over greater distances.

- ► **Do not point the laser beam at persons or animals and do not look into the laser beam yourself, not even from a large distance.**
- ► **Always use the centre of the laser point for marking.** The size of the laser point changes with the distance.

To **measure** grades, align the measuring tool in such a manner that the laser beam runs alongside the surface to be measured. To **transfer** grades, align the measuring tool in such a manner that the desired grade is displayed as measuring value **b**, and mark the grade on the target surface using the laser point.

Note: When transferring grades via laser, take into consideration that the laser comes out 24 mm above the bottom edge of the measuring tool.

Accuracy Check and Calibration of the Measuring Tool

Checking the Measuring Accuracy

Check the accuracy of the measuring tool prior to critical measurements, after intense variations in temperature as well as after heavy impact.

Before measuring angles < 45°, the accuracy check should take place on a level and roughly horizontal surface; before measuring angles > 45°, on a level and roughly vertical surface.

Switch the measuring tool on and place it on the horizontal or vertical surface.

Select the unit of measure "°" (see "Changing the Unit of Measure", page 17).

Wait for 10 s and note down the measured value.

Rotate the measuring tool by 180° around its vertical axis. Wait again for 10 s and note down the second measured value.

- ► **Calibrate the measuring tool only when the difference between both reading values is greater than 0.1°.**

Calibrate the measuring tool in the position (vertical or horizontal), in which the difference of the measured values has been determined.

Calibration for Horizontal Surfaces (see figure E)

The surface onto which you place the measuring tool must not deviate from the horizontal line **by more than 5°**. If the deviation is greater, the calibration process is discontinued with the indication **"---"**.

① Switch the measuring tool on and position it on the horizontal surface in such a manner that the spirit level **12** faces upward and the display **11** faces you. Wait for 10 s.

② Then press the calibration button **"CAL" 4** for approx. 2 s until **"CAL1"** briefly appears in the display. Afterwards, the measuring value flashes in the display.

③ Turn the measuring tool by 180° around the vertical axis so that the spirit level still faces upward, but the display **11** faces away from you. Wait for 10 s.

④ Then press the calibration button **"CAL" 4** again. **"CAL2"** is briefly indicated in the display. Afterwards, the measuring value appears in the display (no longer flashing). The measuring tool is now re-calibrated for this supporting surface.

⑤ After this, the measuring tool must be calibrated for the opposite supporting surface. Rotate the measuring tool around the horizontal axis in such a manner that the spirit level **12** faces downward and the display **11** faces you. Place the measuring tool on the horizontal surface. Wait for 10 s.

⑥ Then press the calibration button **"CAL" 4** for approx. 2 s until **"CAL1"** briefly appears in the display. Afterwards, the measuring value flashes in the display.

⑦ Turn the measuring tool 180° around the vertical axis so that the spirit level still faces downward but the display **11** is facing away from you. Wait for 10 s.

⑧ Then press the calibration button **"CAL" 4** again. **"CAL2"** is briefly indicated in the display. Afterwards, the measuring value appears in the display (no longer flashing). The measuring tool is now re-calibrated for both horizontal supporting surfaces.

Note: If the measuring tool is not turned around the axis shown in the figure in steps ③ and ⑦, **then the calibration cannot be completed** (**"CAL2"** is not indicated in the display).

Calibration for Vertical Surfaces (see figure F)

The surface onto which you place the measuring tool must not deviate from the vertical line **by more than 5°**. If the deviation is greater, the calibration process is discontinued with the indication **"---"**.

① Switch the measuring tool on and position it on the vertical surface in such a manner that the spirit level **13** faces upward and the display **11** faces you. Wait for 10 s.

② Then press the calibration button **"CAL" 4** for approx. 2 s until **"CAL1"** briefly appears in the display. Afterwards, the measuring value flashes in the display.

③ Turn the measuring tool by 180° around the vertical axis so that the spirit level still faces upward, but the display **11** faces away from you. Wait for 10 s.

④ Then press the calibration button **"CAL" 4** again. **"CAL2"** is briefly indicated in the display. Afterwards, the measuring value appears in the display (no longer flashing). The measuring tool is now re-calibrated for this supporting surface.

⑤ After this, the measuring tool must be calibrated for the opposite supporting surface. Rotate the measuring tool around the horizontal axis in such a manner that the spirit level **13** faces downward and the display **11** faces you. Place the measuring tool against the vertical surface. Wait for 10 s.

⑥ Then press the calibration button **"CAL" 4** for approx. 2 s until **"CAL1"** briefly appears in the display. Afterwards, the measuring value flashes in the display.

⑦ Turn the measuring tool 180° around the vertical axis so that the spirit level still faces downward but the display **11** is facing away from you. Wait for 10 s.

⑧ Then press the calibration button **"CAL" 4** again. **"CAL2"** is briefly indicated in the display. Afterwards, the measuring value appears in the display (no longer flashing). The measuring tool is now re-calibrated for both vertical supporting surfaces.

Note: If the measuring tool is not turned around the axis shown in the figure in steps ③ and ⑦, **then the calibration cannot be completed** (**"CAL2"** is not indicated in the display).

Maintenance and Service

Maintenance and Cleaning

Store and transport the measuring tool only in the supplied protective pouch.

Keep the measuring tool clean at all times.

Do not immerse the measuring tool in 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 at the exit opening of the laser in particular, and pay attention to any fluff of fibres.

If the measuring tool should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an authorised after-sales service centre for Bosch power tools. Do not open the measuring tool yourself.

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

In case of repairs, send in the measuring tool packed in its protective pouch **24**.

After-sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:
www.bosch-pt.com
Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

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Disposal

Measuring tools, accessories and packaging should be sorted for environmental-friendly recycling.

Do not dispose of measuring tools and batteries/rechargeable batteries into household waste!

Only for EC countries:

According to the European Guideline 2002/96/EC, measuring tools that are no longer usable, and according to the European Guideline 2006/66/EC, defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner.

Batteries no longer suitable for use can be directly returned at:

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Subject to change without notice.