

Robert Bosch GmbH

Power Tools Division 70745 Leinfelden-Echterdingen Germany

www.bosch-pt.com

2 609 140 991 (2013.05) O / 136 **WEU**



PLR 15



- 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
- ar تعليمات التشغيل الأصلية

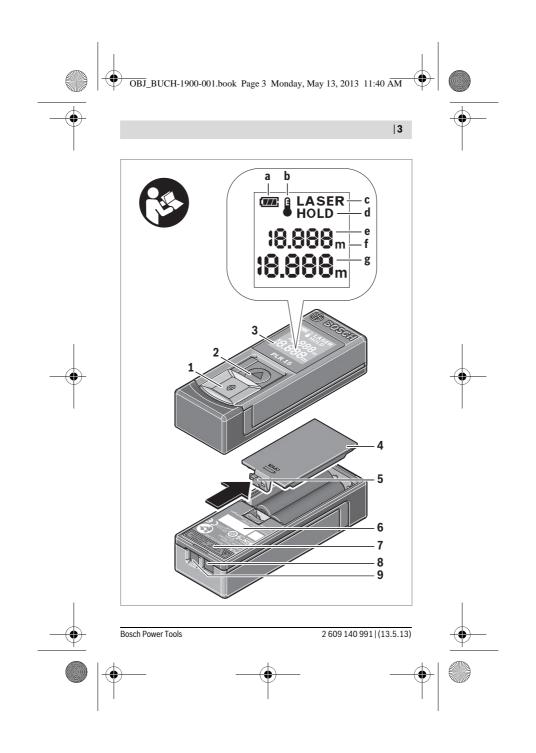


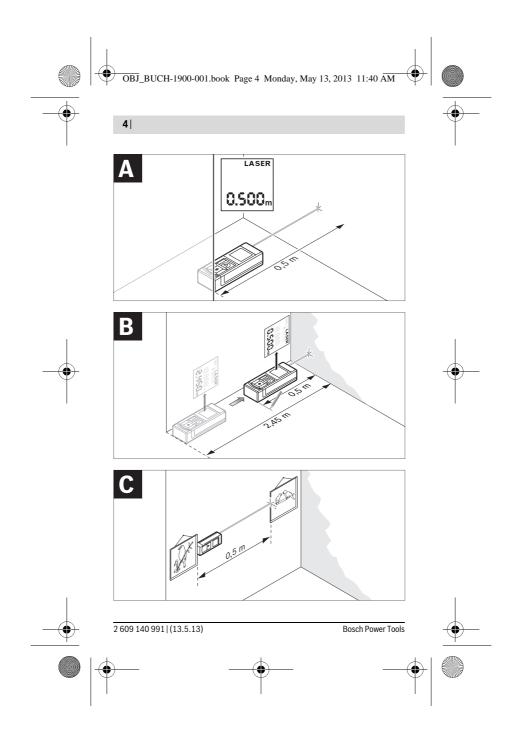




















Nur für EU-Länder:



Gemäß der europäischen Richtlinie 2012/19/EU 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:

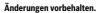
Deutschland

Recyclingzentrum Elektrowerkzeuge Osteroder Landstraße 3 37589 Kalefeld

Schweiz

Batrec AG 3752 Wimmis BE





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.



2 609 140 991 | (13.5.13)

















▶ The measuring tool is provided with a warning label (marked with number 7 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.
- ▶ 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 them-
- ▶ 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

Product Description and Specifications

Intended Use

 $The \ measuring \ tool \ is \ intended \ for \ measuring \ distances, \ lengths, \ heights,$ and clearances. The measuring tool is suitable for measuring indoors.

Product Features

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

- 1 On/Off switch
- 2 HOLD button

Bosch Power Tools 2 609 140 991 | (13.5.13)

































- 3 Display
- 4 Battery lid
- 5 Latch of battery lid
- 6 Serial number
- 7 Laser warning label
- 8 Reception lens
- 9 Laser beam outlet
- $\ensuremath{^\star}$ The accessories illustrated or described are not included as standard delivery.

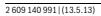
Display Elements

- a Battery low indicator
- **b** Temperature warning
- c Laser switched on
- d Measurement hold
- e Previous measuring value
- ${\bf f} \ \ {\sf Unit} \ {\sf of} \ {\sf measure}$
- g Current measuring value

Technical Data

PLR 15
3 603 F72 000
0.15 15 m ^{A)}
± 3.0 mm ^{B)}
1 mm
0.5 s 4 s
10 °C +40 °C
20 °C +70 °C
90 %
2
635 nm, < 1 mW
9 mm

























+-==-		
Ψ		English 17
	Digital Laser Rangefinder	PLR 15
	Batteries	2 x 1.5 V LR03 (AAA)
	Battery service life in measuring operation, ap-	

Weight according to EPTA-Procedure 0.1 kg 01/2003 Dimensions 100 x 36 x 23 mm

A) The working range increases depending on how well the laser light is reflected from the surface of the target (scattered, not reflective) and with increased brightness of the laser point to the ambient light intensity (interior spaces, twilight). In unfavourable conditions, e.g., with extreme interior illumination or a badly reflecting surface, the measuring range may be limited.

 $B)\ In\ unfavourable\ conditions,\ e.\ g.,\ with\ extreme\ interior\ illumination,\ badly\ reflecting$ surface or the room temperature deviating heavily from 25 $^{\circ}$ C, the maximum deviation can be up to ± 7 mm per 15 m. In favourable conditions, a deviation influence of ± 0.05 mm/m must be taken into account.

The measuring tool can be clearly identified with the serial number ${\bf 6}$ on the type plate.





prox.

Inserting/Replacing the Batteries

Alkali-manganese batteries are recommended for the measuring tool. To open the battery lid 4, press the latch 5 in the direction of the arrow and remove the battery lid. Insert the batteries. When inserting, pay attention to the correct polarity according to the representation on the inside of the battery compartment.

measurements are still possible for approx. 15 minutes. When the battery symbol flashes, the batteries must be replaced; measurements are no

Replace all batteries at the same time. Only use same-brand batteries with the identical battery capacity.



Bosch Power Tools











2 609 140 991 | (13.5.13)











➤ 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.



Operation

Initial Operation

- ➤ 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.
- ▶ 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 a check (see Checking the Measuring Tool, page 21) each time before continuing to work.



To **switch on** the measuring tool, push the On/Off switch **1** toward the rear. When switching on the measuring tool, the laser beam is switched on. The **LASER** indicator flashes on the display.

To \mathbf{switch} off the measuring tool, push the On/Off switch $\mathbf{1}$ toward the front.

Measuring Procedure

After the measuring tool is switched on, continuous measurement takes place. Aim the laser beam at the target surface. The current measuring value **g** is displayed in the bottom line of the display (see figure A). During continuous measurement, the measuring tool can be moved relative to the target, whereby the current measuring value **g** is updated approx. every 0.5 seconds in the bottom line of the display (see figure B). In this manner, as an example, you can move a certain distance away from a wall, while the actual distance can always be read. The **LASER** indicator flashes on the display.



2 609 140 991 | (13.5.13)

















For a wall to wall measurement, as an example, position the measuring

▶ Do not point the laser beam at persons or animals and do not look

HOLD Function (see Figure B)

LASER HOLD

LASER HOLD

18.888_m

18.888...

18.888_m

Press the HOLD button 2 to stop the measur-LASER HOLD ing procedure. The laser beam is switched off and the **HOLD** indication appears on the dis-18.888_m play. The current measuring value is still dis-18.888_m played in the bottom line of the display, but is no longer continuously updated.

Press the HOLD button 2 once more to switch the laser on again. The LASER indicator flashes on the display. The previous measuring value is displayed in the top line. The continuously updated/current measuring value is displayed in the bottom line.

Press the HOLD button 2 once more to stop the measuring procedure again. The laser beam is switched off and the HOLD indication appears on the display. The previous measuring value is displayed in the top line. The current measuring value is displayed in the bottom line, but is no longer continuously updated.

When no button on the measuring tool is pressed for approx. 5 minutes,

When a measuring value was held using the HOLD function, it is retained after the automatic shut-off. After switching the measuring tool on again by pressing the HOLD button 2, the previous measuring value e is indicated in the top line of the display.

the measuring tool automatically switches off to save the batteries.



Bosch Power Tools 2 609 140 991 | (13.5.13)





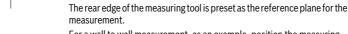


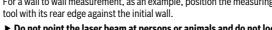


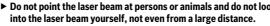




















Working Advice

General Information

The reception lens ${\bf 8}$ and the laser beam outlet ${\bf 9}$ must not be covered when taking a measurement.

Measurement takes place at the centre of the laser beam, even when target surfaces are sighted at an incline.

Influence Effects on the Measuring Range

The measuring range depends on the light conditions and the reflection properties of the target surface.

Influence Effects on the Measuring Result

Due to physical effects, faulty measurements cannot be excluded when measuring on different surfaces. Included here are:

Transparent surfaces (e.g., glass, water),

Reflecting surfaces (e.g., polished metal, glass),

Porous surfaces (e.g. insulation materials),

Structured surfaces (e.g., roughcast, natural stone).

Also, air layers with varying temperatures or indirectly received reflections can affect the measured value.



Troubleshooting Causes and Corrective Measures

Cause	Corrective Measure			
Temperature warning indicator (b) sible	flashing; measurement not pos-			
Measuring tool not within the operating temperature range between $10~^{\circ}\text{C}$ and $+40~^{\circ}\text{C}$.	Wait until the measuring tool has reached the operating temperature			
Battery low indicator (a) appears				
Battery voltage decreasing (measurement still possible).	Replace batteries			
Battery low indicator (a) flashing; measurement not possible				
Battery voltage too low	Replace batteries			
All indicators on the display flash				
The measuring tool is defective.	Contact the Customer Service			



2 609 140 991 | (13.5.13) Bosch Power Tools





















English | 21

Cause The laser beam outlet 9 or the recep-	Wine the laser beam outlet
the laser beam outlet 9 of the recep-	

1 9 tion lens 8 are misted up (e.g. due to a and/or the reception lens 8 dry rapid temperature change). using a soft cloth

The Err indication is displayed after pressing the HOLD button **Unreliable measuring result**

The target surface does not reflect cor- Cover off the target surface rectly (e.g. water, glass).

The laser beam outlet 9 or the recep-Make sure that the laser beam tion lens 8 are covered. outlet 9 or the reception lens 8 are unobstructed

Measuring result not plausible Laser point must be completely Obstruction in path of laser beam on target surface.

The measuring tool monitors the proper function for each measurement. When a defect is detected, all indicators on the display flash. In this case, or when the corrective measures listed above cannot correct the error, have your dealer forward the measuring tool to an authorised Bosch aftersales service.



The accuracy of the measuring tool can be checked as follows:

Select a permanently unchangeable measuring section with a length of approx. 3 to 10 metres; its length must be precisely known (e.g. the width of a room or a door opening). The measurement should be carried out under favourable conditions, meaning, the measuring distance must be indoors and the target surface for the measurement must be smooth and reflect well.

Measure the distance 10 times after another.

Under favourable conditions, the deviation of the individual measurements from the mean value must not exceed ± 3.5 mm (max.) over the complete measuring distance. Log the measurements, so that you can compare their accuracy at a later point of time.





Bosch Power Tools

2 609 140 991 | (13.5.13)





















Maintenance and Service

Maintenance and Cleaning

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.

Maintain the reception lens ${\bf 8}$ in particular, with the same care as required for eye glasses or the lens of a camera.

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.

For repairs, send in the measuring tool in.

Our a

After-sales Service and Application Service

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

Bosch s application service team will gladly answer questions concerning our products and their accessories.

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

Great Britain

Robert Bosch Ltd. (B.S.C.) P.O. Box 98 Broadwater Park North Orbital Road Denham Uxbridge UB 9 5HJ

Tel. Service: (0844) 7360109 Fax: (0844) 7360146

E-Mail: boschservicecentre@bosch.com

























English | 23

Ireland

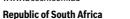
Origo Ltd. Unit 23 Magna Drive Magna Business Park City West Dublin 24 Tel. Service: (01) 4666700

Fax: (01) 4666888

Australia, New Zealand and Pacific Islands

Robert Bosch Australia Pty. Ltd. **Power Tools** Locked Bag 66 Clayton South VIC 3169 **Customer Contact Center** Inside Australia: Phone: (01300) 307044

Fax: (01300) 307045 Inside New Zealand: Phone: (0800) 543353 Fax: (0800) 428570 Outside AU and NZ: Phone: +61 3 95415555 www.bosch.com.au



Customer service Hotline: (011) 6519600

Gauteng BSC Service Centre 35 Roper Street, New Centre

Johannesburg

Tel.: (011) 4939375 Fax: (011) 4930126 E-Mail: bsctools@icon.co.za









2 609 140 991 | (13.5.13)





















KZN BSC Service Centre

Unit E, Almar Centre 143 Crompton Street Pinetown Tel.: (031) 7012120

Fax: (031) 7012446 E-Mail: bsc.dur@za.bosch.com

Western Cape BSC Service Centre

Democracy Way, Prosperity Park

Milnerton

Tel.: (021) 5512577 Fax: (021) 5513223 E-Mail: bsc@zsd.co.za

Bosch Headquarters

Midrand, Gauteng Tel.: (011) 6519600 Fax: (011) 6519880

E-Mail: rbsa-hq.pts@za.bosch.com



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 2012/19/EU, 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.





2 609 140 991 | (13.5.13)











