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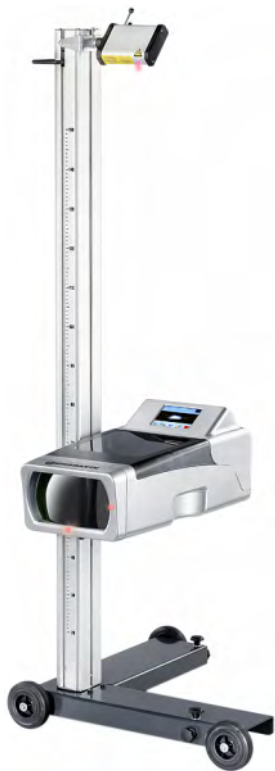
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Headlight testing device MLD 815

Beissbarth MLD 815 - Digital headlight measurement and adjustment

Article number: 1 692 104 329



German Road Traffic Type-Approval Law StVZO § 29 general-inspection headlight-test directive: MLD 815 can be calibrated according to the legal requirements

- TÜV certificate in line with StVZO § 50 - TPN 10010 6935: MLD 815 is TÜV-certified by prototype technical release examination in accordance with the directives for testing headlight adjustment/test equipment (German Road Traffic Type-Approval Law StVZO §50 paragraph 5).
- The alignment (leveling) of the MLD 815 on the testing bay corresponds to the latest requirements.
- Two-dimensional spirit level for horizontal leveling of the optical box
- Levelable 3-Wheel base system fitting for all common rail systems
- Levelable rail system for above and inground installation (3 m) as optional available accessory

Digital headlight testing with MLD 815: intelligent, fast and precise

- Cross- and alignment laser for precise positioning
- For all light sources (Xenon, Bi-Xenon, LED, Bi-LED, Halogen) and glare-free high-beam systems (Dynamic Light Assist - DLA, Matrix, ILS Ford)
- All types of vehicles (passenger cars, trucks, motorcycles)
- All types of headlights (main headlights, fog lamps, auxiliary lamps)
- CMOS camera for real-time digital image processing
- Built-in printer
- Measurement results in real time
- Comparison between measured and limit values and unambiguous red/green evaluation
- Precise definition of the cut-off line without disrupting blue fringe
- Digital LCD colour display (5.7") with 262,000 colours
- Touch-screen function (operation with gloves is possible)

- Intuitive and simple user guidance
- Visual and acoustic signals support the measurement procedure
- Menu featuring 7 languages
- Operating panel can be rotated by 180° for different areas of application (e.g. for general inspections or for the adjustment at the workshop)
- Independent operation thanks to battery - Storage battery Alignment laser: 3 x Mignon AA 1.5 V
- Measuring height (optical center): 24 - 145 cm
- Measured values: Horizontal and vertical deviation (pitch angle), intensity, roll angle, yaw angle
- Digital precision: +/- 1 cm on a 10-meter measuring distance

Test results via WLAN with quick and aptly arranged results on the PC

- Optional: visualization on the workshop computer
- Displaying of the cut-off line on the PC monitor or TFT screen
- Data transfer to PC via WLAN
- User interface simplifies intuitive use
- Database function
- Printing and archiving
- Adjustment of the colour scheme by the user: Light/dark background depending on the lighting conditions
- Workshop Network Connectivity: Supports Bosch Connected Repair, ASA Network Compatibility is guaranteed

Certificate: CE, TÜV, EMC, FCC, FDA

Headlight testing device MLD 9000

Beissbarth MLD 9000 - Digital headlight measurement and adjustment

Article number: 1 692 104 345



German Road Traffic Type-Approval Law StVZO § 29 general-inspection headlight-test directive: MLD 9000 can be calibrated according to the legal requirements

- TÜV certificate in line with StVZO § 50 - TPN 10014 8827: MLD 9000 is TÜV-certified by prototype technical release examination in accordance with the directives for testing headlight adjustment/test equipment (German Road Traffic Type-Approval Law StVZO §50 paragraph 5).
- Two-dimensional spirit level for horizontal leveling of the optical box
- Levelable 3-Wheel base system fitting for all common rail systems

Digital headlight testing with MLD 9000: intelligent, fast and precise

- Precise green alignment lasers for accurate alignment with the vehicle. Green laser diodes are particularly well visible to the human eye because the eye has its maximum spectral sensitivity in the green range
- Cross laser function for precise positioning in the center of the headlight
- For all light sources (Xenon, Bi-Xenon, LED, Bi-LED, Halogen) and glare-free high-beam systems (Dynamic Light Assist - DLA, Matrix1, HD-Matrix2, ILS Ford)
- All types of vehicles (passenger cars, trucks, motorcycles)
- All types of headlights (main headlights, fog lamps, auxiliary lamps)
- High-resolution (5 megapixel) CMOS camera for real-time digital image processing
- Measurement results in real time optimized with live images
- Comparison between measured and limit values and unambiguous red/green evaluation
- Saving and archiving of the measured values in database
- Reporting of the measurement result possible via PDF
- Time-saving quick measurement functionality

- Precise definition of the cut-off line without disrupting blue fringe
- Workshop-proof touch-screen display (7")
- Continuously swiveling display for a variety of applications (such as the MOT for testing or in the workshop for adjustment) and for adapting to the local lighting conditions
- Intuitive and simple user guidance
- Visual and acoustic signals support the measurement procedure
- Independent operation thanks to battery
- Measured values: Horizontal and vertical deviation (pitch angle), intensity, roll angle, yaw angle
- Ports: LAN, USB, RS232
- Live firmware update possible
- Optional PC software to display the measurement on the test lane PC

Highest mechanical precision and long-life cycle (suitable for future legal requirements):

- A new developed torsion-free and specially hardened aluminum column
- Easy to use, robust sliding system for precise height adjustment and comfortable working
- Robust and durable counter weight system with toothed belt
- Determination of the headlight installation height via adjustable, specially made aluminum scale or use of the optional height measuring sensor
- Optional: fine adjustment of the column with 1 angle minute accuracy

Networking: Test results via WLAN with quick and aptly arranged results on the PC

- Save measurement printouts in a network folder
- Integration with Bosch Connected Repair (fees apply for activation)

Headlight testing device MLD 9000 | with inclinometer

Beissbarth MLD 9000 with inclinometer - Digital headlight measurement and adjustment

Article number: 1 692 104 346



German Road Traffic Type-Approval Law StVZO § 29 general-inspection headlight-test directive: MLD 9000 can be calibrated according to the legal requirements

- TÜV certificate in line with StVZO § 50 - TPN 10014 8827: MLD 9000 is TÜV-certified by prototype technical release examination in accordance with the directives for testing headlight adjustment/test equipment (German Road Traffic Type-Approval Law StVZO §50 paragraph 5).
- Two-dimensional spirit level for horizontal leveling of the optical box
- Levelable 3-Wheel base system fitting for all common rail systems

Digital headlight testing with MLD 9000: intelligent, fast and precise

- The MLD 9000 (1692104346) supports leveling accuracy through software correction via a built-in inclinometer
- Precise green alignment lasers for accurate alignment with the vehicle. Green laser diodes are particularly well visible to the human eye because the eye has its maximum spectral sensitivity in the green range
- Cross laser function for precise positioning in the center of the headlight
- For all light sources (Xenon, Bi-Xenon, LED, Bi-LED, Halogen) and glare-free high-beam systems (Dynamic Light Assist - DLA, Matrix1, HD-Matrix2, ILS Ford)
- All types of vehicles (passenger cars, trucks, motorcycles)
- All types of headlights (main headlights, fog lamps, auxiliary lamps)
- High-resolution (5 megapixel) CMOS camera for real-time digital image processing
- Measurement results in real time optimized with live images
- Comparison between measured and limit values and unambiguous red/green evaluation
- Saving and archiving of the measured values in database

- Reporting of the measurement result possible via PDF
- Time-saving quick measurement functionality
- Precise definition of the cut-off line without disrupting blue fringe
- Workshop-proof touch-screen display (7")
- Continuously swiveling display for a variety of applications (such as the MOT for testing or in the workshop for adjustment) and for adapting to the local lighting conditions
- Intuitive and simple user guidance
- Visual and acoustic signals support the measurement procedure
- Independent operation thanks to battery
- Measured values: Horizontal and vertical deviation (pitch angle), intensity, roll angle, yaw angle
- Ports: LAN, USB, RS232
- Live firmware update possible

Highest mechanical precision and long-life cycle (suitable for future legal requirements):

- A new developed torsion-free and specially hardened aluminum column
- Easy to use, robust sliding system for precise height adjustment and comfortable working
- Robust and durable counter weight system with toothed belt
- Determination of the headlight installation height via adjustable, specially made aluminum scale or use of the optional height measuring sensor
- Optional: fine adjustment of the column with 1 angle minute accuracy

Networking: Test results via WLAN with quick and aptly arranged results on the PC

- Save measurement printouts in a network folder
- Integration with Bosch Connected Repair (fees apply for activation)

Headlight testing device MLD 9000 | with printer

Beissbarth MLD 9000 with integrated printer - Digital headlight measurement and adjustment

Article number: 1 692 104 347



German Road Traffic Type-Approval Law StVZO § 29 general-inspection headlight-test directive: MLD 9000 can be calibrated according to the legal requirements

- TÜV certificate in line with StVZO § 50 - TPN 100148827: MLD 9000 is TÜV-certified by prototype technical release examination in accordance with the directives for testing headlight adjustment/test equipment (German Road Traffic Type-Approval Law StVZO §50 paragraph 5).
- Two-dimensional spirit level for horizontal leveling of the optical box
- Levelable 3-Wheel base system fitting for all common rail systems

Digital headlight testing with MLD 9000: intelligent, fast and precise

- Precise green alignment lasers for accurate alignment with the vehicle. Green laser diodes are particularly well visible to the human eye because the eye has its maximum spectral sensitivity in the green range
- Cross laser function for precise positioning in the center of the headlight
- For all light sources (Xenon, Bi-Xenon, LED, Bi-LED, Halogen) and glare-free high-beam systems (Dynamic Light Assist - DLA, Matrix1, HD-Matrix2, ILS Ford)
- All types of vehicles (passenger cars, trucks, motorcycles)
- All types of headlights (main headlights, fog lamps, auxiliary lamps)
- High-resolution (5 megapixel) CMOS camera for real-time digital image processing
- Measurement results in real time optimized with live images
- Comparison between measured and limit values and unambiguous red/green evaluation
- Saving and archiving of the measured values in database
- Reporting of the measurement result possible via PDF
- Time-saving quick measurement functionality

- Precise definition of the cut-off line without disrupting blue fringe
- Workshop-proof touch-screen display (7")
- Continuously swiveling display for a variety of applications (such as the MOT for testing or in the workshop for adjustment) and for adapting to the local lighting conditions
- Intuitive and simple user guidance
- Visual and acoustic signals support the measurement procedure
- Independent operation thanks to battery
- Measured values: Horizontal and vertical deviation (pitch angle), intensity, roll angle, yaw angle
- Ports: LAN, USB, RS232
- Live firmware update possible

Highest mechanical precision and long-life cycle (suitable for future legal requirements):

- A new developed torsion-free and specially hardened aluminum column
- Easy to use, robust sliding system for precise height adjustment and comfortable working
- Robust and durable counter weight system with toothed belt
- Determination of the headlight installation height via adjustable, specially made aluminum scale or use of the optional height measuring sensor
- Optional: fine adjustment of the column with 1 angle minute accuracy

Networking: Test results via WLAN with quick and aptly arranged results on the PC

- Save measurement printouts in a network folder
- Integration with Bosch Connected Repair (fees apply for activation)

Certificate: CE, TÜV, EMC, FCC, FDA

Headlight testing device MLD 10

Beissbarth MLD 10 - Analog headlight testing device

Article number: 1 692 104 342



German Road Traffic Type-Approval Law StVZO § 29 general-inspection headlight-test directive: MLD 10 can be calibrated according to the legal requirements

- TÜV certificate in line with StVZO § 50 - TPN 10013 6530: MLD 815 is TÜV-certified by prototype technical release examination in accordance with the directives for testing headlight adjustment/test equipment (German Road Traffic Type-Approval Law StVZO §50 paragraph 5).
- The alignment (leveling) of the MLD 10 on the testing bay corresponds to the latest requirements
- Two-dimensional spirit level for horizontal leveling of the optical box
- Levelable 3-Wheel base system fitting for all common rail systems
- Levelable rail system for above and inground installation (3 m) as optional available accessory

For rail operation a wheelhub shell set is required (item no. 1 692 105 188)

Analog headlight testing device MLD 10: Basis for headlamp testing

- Cross- and alignment laser with turntable column for precise positioning
- For all light sources (Xenon, Bi-Xenon, LED, Bi-LED, Halogen)
- All types of vehicles (passenger cars, trucks, motorcycles)
- All types of headlights (main headlights, fog lamps, auxiliary lamps)
- Operating panel can be rotated by 180° for different areas of application (e.g. for general inspections or for the adjustment at the workshop)
- Measuring height (optical center): 25 - 150 cm
- Intensity measurement: Luxmeter with digital display

Certificate: CE, TÜV

Headlight testing device MLD 100

Beissbarth MLD 100 - Analog headlight testing device

Article number: 1 692 104 343



German Road Traffic Type-Approval Law StVZO § 29 general-inspection headlight-test directive: MLD 100 can be calibrated according to the legal requirements

- TÜV certificate in line with StVZO § 50 - TPN 100127181: TÜV-certified by prototype technical release examination in accordance with the directives for testing headlight adjustment/test equipment (German Road Traffic Type-Approval Law StVZO §50 paragraph 5).
- The alignment (leveling) of the MLD 100 on the testing bay corresponds to the latest requirements
- Two-dimensional spirit level for horizontal leveling of the optical box
- Levelable 3-wheel base system with wheels for the rail system
- Levelable rail system for above and inground installation (3 m) as mandatory accessories

High-End headlight testing device MLD 100: with the approved mechanics of the digital headlamp tester

- Cross- and alignment laser with turnable column for precise positioning
- For all light sources (Xenon, Bi-Xenon, LED, Bi-LED, Halogen)
- All types of vehicles (passenger cars, trucks, motorcycles)
- All types of headlights (main headlights, fog lamps, auxiliary lamps)
- Operating panel can be rotated by 180 ° for different areas of application (e.g. for general inspections or for the adjustment at the workshop)
- Measuring height (optical center): 25 - 150 cm
- Intensity measurement: Luxmeter with digital display
- Prepared for rail system usage - no overhang of the light box
- Inclination scale readable from above

Scope of deliveries:

- Optical box MLD 100 - RAL7040 - analogue

- Column
- 3-wheel base with rail wheels
- Laser visor with handle and wide laser diode
- Dust cover

Certificate: CE, TÜV

Digital



Headlight testing device MLD 815

Article number: 1 692 104 329



Headlight testing device MLD 9000

Article number: 1 692 104 345



Headlight testing device MLD 9000 | with inclinometer

Article number: 1 692 104 346



Headlight testing device MLD 9000 | with printer

Article number: 1 692 104 347

Analog



Headlight testing device MLD 10

Article number: 1 692 104 342



Headlight testing device MLD 100

Article number: 1 692 104 343



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