

Beissbarth MLD 815 Ford – Headlight tester for Ford workshops



- Also for LED headlights with glare-free high beam
- Aligned with the vehicle centre line
- Leveled rail system for general-inspection directive



MLD 815 Ford headlight testing system

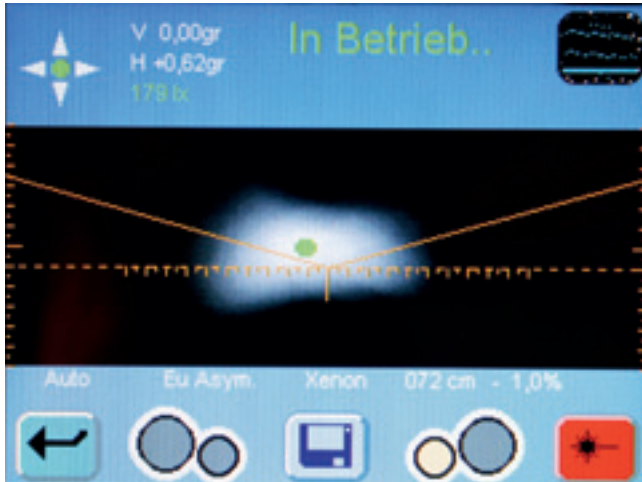
Exclusively for Ford workshops



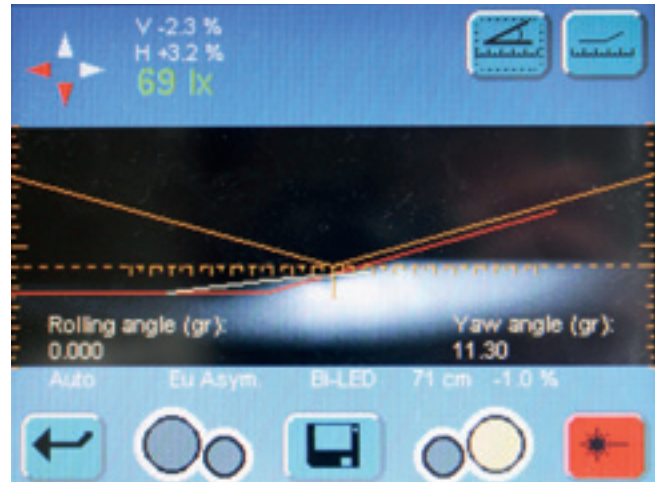
- Digital system for Ford workshops
- Analogue system for all types of headlights and light sources – including LED
- Exclusively for Ford: Software feature for glare-free high beam (ILS/GFHB)
- Aligned with the vehicle centre line via laser module
- Alignment towards rear target post with cross laser
- Rail system for the new general-inspection directive
- TÜV-certified by type examination
- TÜV certificate No. TPN100101161



MLD 815 Ford: digital live images



High-beam xenon light on the left



Low-beam LED light on the right

- All types of light sources (xenon, bi-xenon, LED, bi-LED, halogen)
- Glare-free high beam: DLA / Matrix
- All types of vehicles (passenger cars, trucks, motorcycles)
- All types of headlights (main headlights, fog lamps, auxiliary lamps)
- Measuring height (optical centre): 24 - 145 cm
- Measured values: Horizontal and vertical deviation (pitch angle), intensity, roll angle, yaw angle
- Digital LCD colour display (5.7") with 262,000 colours
- Touch-screen function
- 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 thanks to battery operation



CMOS camera with high resolution and frame rate

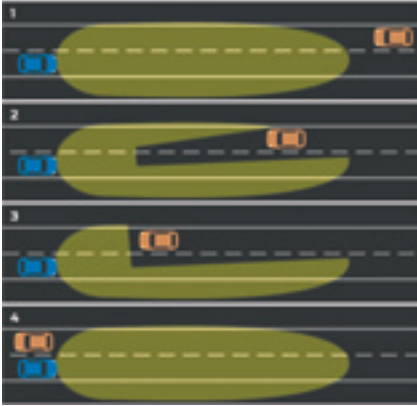


Integrated printer



Operating panel can be rotated by 180° (operation with gloves is possible)

For Ford Dynamic LED:



Adaptive LED headlight with glare-free high beam

(ILS/GFHB: Intelligent Light System/Glare Free High Beam)

Front cameras identify approaching vehicles and those ones driving ahead by their headlights or tail lights. Based on this data, the individual headlights can be controlled in a manner allowing to omit any other road users while still illuminating the area around them. A rotating cylinder inside the headlight, located between light source and lens, allows partial illumination of the vehicle surroundings with different light intensities. Although you benefit from best-possible visibility at night, other road users are not blinded.



Your YouTube link

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In order to test and adjust the headlight system, the headlight tester has to be precisely aligned with the **vehicle centre line** first:

- MLD 815 is located centrally in front of the vehicle
- The rear target post is attached to the back
- Targeting the rear target post with the MLD 815 laser module
- Final positioning of the MLD 815 in front of the vehicle
- Connection to a Ford diagnostic tester: -> Basic adjustment mode for headlights
- Using rails, MLD 815 is laterally moved towards the headlights
- Start the headlight test in accordance with Ford target data



The vertical laser module
at the top of MLD 815 Ford
(laser class M1)



MLD 815 Ford: special Ford software routine

Rear target post for laser targeting



Fine-adjustment of rear target post

- Target for laser alignment
- Vertically extends the centre of the vehicle back upwards
- Simple fitting by means of magnets or vacuum cups

A special test pattern was developed for Ford headlights featuring glare-free high beam:

At the MLD 815 display, a digital tolerance area is shown which allows the adjustment of the vertical cut-off line:



Red: Tolerance area with differing measurement line.
Mechanical adjustment of the headlight is done manually.



Green: If the centre line turns green, the cut-off line is within the allowed tolerances.

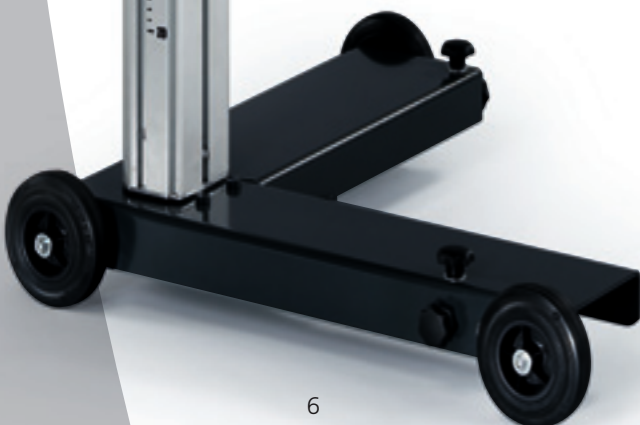
Leveling in line with the new directive



German Road Traffic Type-Approval Law StVZO § 29 general-inspection headlight-test directive

- MLD 815 alignment (leveling) on the test area complies with the latest requirements placed on test areas in workshops.
- Two-dimensional level for the horizontal leveling of the light box
- Adjustable 3-wheel trolley
- Adjustable rail system (3m) for above and in-ground installation as optional accessory

Adjustable trolley

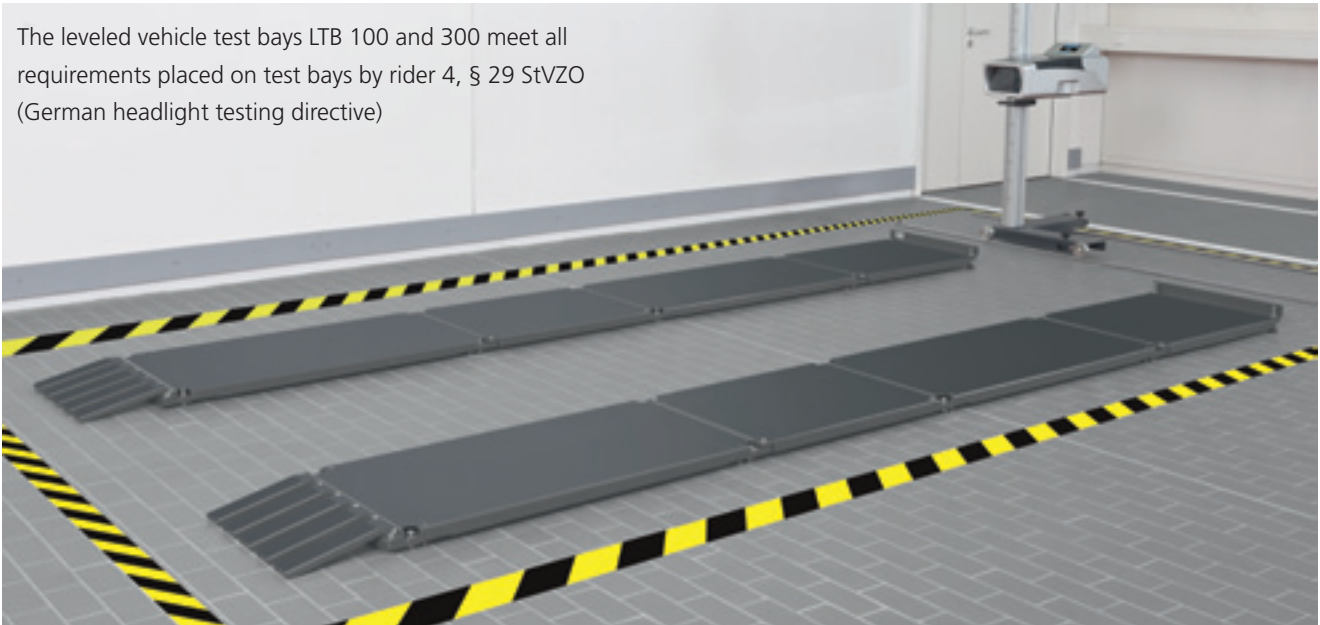


Adjustable rail system



LTB 100: leveled vehicle test bay in line with the new headlight test directive

The leveled vehicle test bays LTB 100 and 300 meet all requirements placed on test bays by rider 4, § 29 StVZO (German headlight testing directive)



- Specifically for uneven workshop floors
- Axle weights of up to 2.5 t
- Patented design
- Fine adjustment by 4 separate plate modules per rail
- Adjustable height compensation (0 to 40 mm)
- Standard length: 4 m
- Optional extension to up to 6 m (for vans and LCVs)
- Minimum height: 54 mm
- Also suitable for workshop pits (optional: drive-in protection)
- Also suitable as drive-through solution (optional: roll-on ramps)

Scope of delivery

LTB 100 (4 m)*

Order No.

1 692 100 030

Accessories

2 m extension	1 692 100 031
Set of roll-on ramps	1 692 100 032
Pit drive-in protection (4 m)	1 692 100 033
Extension for the pit drive-in protection (2 m)	1 692 100 037

For service/assembly

Service kit (assembly patterns; carrying pliers)	1 692 100 034
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* Assembly plugs not included in scope of delivery

Available soon for purchase: LTB 300. Work and test bay will then also be suitable for wheel alignment and the adjustment of assistance systems.






Height compensation of up to 40 mm



Roll-on ramps for vehicle reception

Technical data MLD 815 Ford

Light intensity	Candela
Illumination	0 - 150.000 Lux/1 m 0 - 240 Lux/25 m
Orientation (in %, cm, °)	
Low beam	0% - 10% (0 - 1.000 mm)
High beam	0% - 10% (0 - 1.000 mm)
Top and bottom, right and left	0% - 6% (0 - 600 mm)
Measuring height (optical centre above ground level)	240 - 1.450 mm
LCD colour screen	5,7", 262.000 colours
CMOS camera	Image rate 60 fps
Laser classes:	- Alignment laser  3R - Cross laser  3R - Vertical laser module  1M
Plug voltage (input voltage of the battery charger)	100 - 240 V / 50 - 60 Hz
Supply voltage (integrated battery)	12 V
Operating temperature (°C)	+ 5 to + 45°C
Weight	35 kg
Size of the device (W x D x H)	660 x 695 x 1.780 mm

Order numbers

MLD 815 Ford (with laser unit and rear target post)	1 692 104 338
Set of 3m rails (with guide and running rails, steel rollers, installation kit)	1 692 105 080

Optional accessories

1,5 m rail extension kit (with installation kit)	1 692 105 112
Height sensor	1 692 105 066
Protective cover	1 692 105 079

Subject to technical modification and changes to scope of delivery.
Pictures may sometimes show special accessories or similar versions.
Please contact your Beissbarth dealer for a binding up-to-date quotation.

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