



## HEADLIGHT TESTING

# Headlight testing device MLD 815 Ford

Beissbarth MLD 815 Ford - Digital headlight measurement and adjustment according Ford requirements

Article number: 1 692 104 338

## Description

### Headlight testing system MLD 815 with Ford homologation

- Homologated headlight testing system for Ford workshops
- Alignment to the vehicle center line according Ford requirements: with laser module and rear target post
- Including developed software function for glare-free high beam system (ILS / GFHB) built into Ford models

### Alignment kit for alignment on the vehicle center line (Ford requirement)

- Exact alignment to the vehicle center line: with laser module and rear target post
- Designed for Ford vehicles with glare-free high beam, usable for all manufacturers vehicles to increase the precision
- Attached to the rear of the vehicle using magnets or suction cups
- Fine adjustment for exact positioning to the vehicle center
- High quality, highly visible, green vertical laser
- Low laser class - 1M

Note: Rail system is mandatory to use this alignment solution (Ford requirement)

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

- TÜV certificate in line with StVZO § 50 - TPN 10010 1161: MLD 815 Ford 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 vehicle center line alignment with pendulum is considered in the type approval certificate.
- The alignment (leveling) of the MLD 815 Ford 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 - Storage battery Alignment laser vertical 4 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

### **Reliable check and adjustment of permanent high beams (e.g. Dynamic Light Assist - DLA, Matrix Beam etc.)**

MLD 815 Ford assists the user with intelligent headlamps:

- Mechanical adjustment of the vertical cut-off line (e.g. DLA, ILS)
- Position of the cut-off line read out by means of the MLD 815 Ford software - with an accuracy level based on angular minutes (e.g. bei Matrix Beam)

Note: To adjust the glare-free high beam, an OBD diagnostic device is also required

### **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

## **Technical Data**

Operating temperature	5 - 45 °C
Electrical connection	100 - 240 V   50 - 60 Hz
Battery voltage (DC)	12 V
Height of light center	250 - 1500 mm
Measuring range lowest stand/highest stand	600 - -600 mm
Light intensity	0 - 150000 cd
Illumination	(1m) 0 - 150000 / (25m) 0 - 240 lx
Storage temperature	-25 - 45 °C
Version	- Digital
Packaging length	650 mm
Packaging width	1790 mm
Packaging height	700 mm
Gross weight	40 kg
Measuring range low beam left/right	1000 - -1000 mm
Measuring range high beam left/right	1000 - -1000 mm
Relative humidity storage	20 - 80 %
Relative humidity, use	30 - 60 %
Radiant power alignment laser	5 mW
Operating voltage alignment laser	3 - 5 V (DC)

Laser class alignment laser	3R
Projection alignment laser	130° x 0,4 mrad
Laser diode alignment laser	635 nm
Laser class cross laser	3R
Projection cross laser	90° x 0,4 mrad
Laser diode cross laser	635 nm
Radiant power cross laser	5 mW
Operating voltage cross laser	3 - 5 V (DC)
Projection alignment laser (vertical)	(P-Assist S5) 130° x 0,4 mrad
Laser diode alignment laser (vertical)	(P-Assist S5) 520 +/- 5 nm
Laser class alignment laser (vertical)	(P-Assist S5) 1M
Radiant power alignment laser (vertical)	(P-Assist S5) 10 mW
Operating voltage alignment laser (vertical)	(P-Assist S5) 4,5 - 6 V (DC)

## Accessories

1 692 105 080	Rail kit 3 m
1 692 105 112	Extension kit for rail kit   1.5 m
1 692 105 066	Height-messuring sensor   for MLD 6xx and 8xx
1 692 105 079	Cover for headlight testing devices
1 692 105 145	PC Software Iqperform - Headlight
1 692 105 269	Matrix 2 Upgrade   for MLD 815
1 692 105 288	Ford Matrix   for MLD 815
1 692 105 289	Skoda Function   for MLD 815