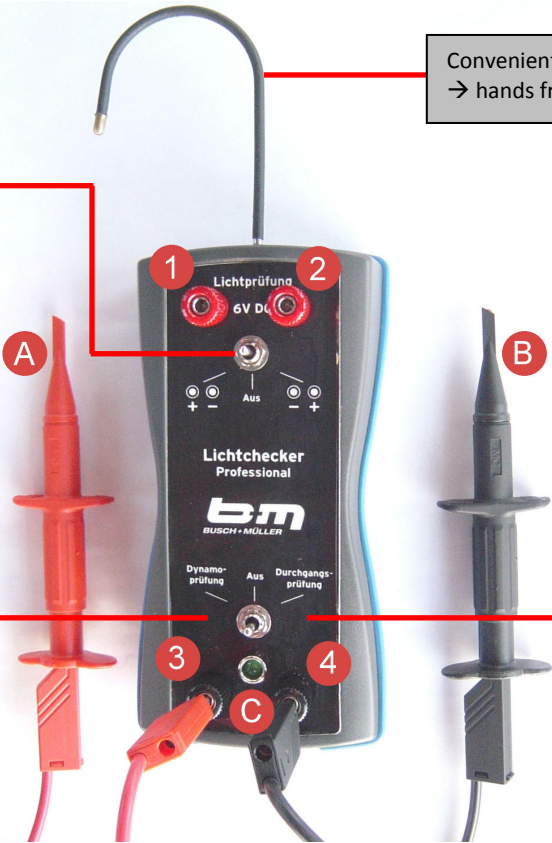


**Light check\*  
(headlight & rear light)**

- Insert red and black wire in 1 + 2.
- Connect quick contacts (A + B) to current and mass contacts of headlight/rear light.
- Set rocker switch to +/- or -/+ (reverse polarity) – the contacts now carry 6 V DC.
- If headlight or rear light shine in either of the two rocker switch positions (with the headlight switched on), they function properly.

\* Please note: 6 V DC is insufficient to compare the brightness of different headlights. The full light output is only reached when the headlight is connected to a dynamo (AC).

Convenient hanger  
→ hands free during light checks!



**Electrical continuity check  
(wiring)**

- Insert red and black wire in 3 + 4.
- Set rocker switch to „Durchgangsprüfung“.
- Connect quick contacts (A + B) to both ends of the wire section that is to be checked.
- If the LED (C) shines and an acoustic signal is heard, the electrical connection along the tested wire section is proper.

**Dynamo check**

- Insert red and black cable in 3 + 4.
- Set rocker switch to „Dynamoprüfung“.
- Connect quick terminals (A + B) to current and mass contacts of the dynamo. There is no set polarity.
- Turn the wheel in which the dynamo is installed.
- If the LED (C) shines during the turning of the wheel, the dynamo functions properly.

**Self-testing the Lichtchecker**

- Press button (D).
- If the LED (F) shines, the energy of the internal battery is sufficient for further checking.
- If the LED (F) does not shine, the Lichtchecker needs to be recharged. To do so, connect the charging device to jack (E).
- Please note: Do not carry out any light checks during recharging, this might damage the battery!



**Please note**

- If you are testing the light system of an e-bike, please disconnect the vehicle's battery before checking!
- Never connect external power sources to 1, 2, 3 or 4 (except dynamos)!



Convenient connection jacks  
→ connect wires by screwing down tightly of with included banana plugs!

**Notes for charging:** Prior to first usage, the Lichtchecker needs to be completely charged! Please note: The maximum capacity is only reached after several charging cycles! The processor-controlled charging device can be fed with 100-250 V AC 50-60 Hz. When plugging in the charging device, the LED on the devices briefly shines red. The device is now ready for use. If the Lichtchecker is connected, the LED on the charging device continues to shine red during charging. Charging ceases automatically; the power supply is brought down to conservation charging. The LED now shines green. Overcharging is not possible. If the batteries are exhaustively discharged and charging ceases after just a few minutes, please disconnect the charging device from the Lichtchecker and plug it in again. If applicable, this process needs to be repeated several times. The Lichtchecker is charged in about three hours if the charger is set to regular charging (0.9 A). When set to quick charging (1.8 A), the charging time is reduced. Quick charging may only be done if the Lichtchecker has a temperature of at least 20°C. At lower temperatures, the battery might be damaged. Over time, quick charging reduces the amount of possible charging cycles, so regular charging should be given preference. If the charging plug is short-circuited, or if the battery's polarity is reversed, the LED on the charging devices rapidly flashes red, and charging is aborted. If the charging device overheats, charging is aborted as well. An exchangeable 3A safety fuse is installed in the connection cable between charging device and Lichtchecker, which interrupts charging in case of a short circuit. (Two replacement fuses are included.) If a different charging device than the one included is used, it has to be suitable to charge five serially connected NiMH batteries and be equipped with a circular plug 3.5x1.35 mm. Polarity of that plug has to be ,plus' on the inside and ,minus' on the outside. No warranty can be provided if other charging devices than the one included are used.

- Internal battery: output 6 V DC, capacity 2100 mAh, cells with low self-discharge
- Used-up batteries and electronic parts must not be treated as domestic waste, but disposed of as hazardous waste!
- The Lichtchecker is neither splash nor rain water-proof.
- Technical modifications reserved.

