



MY PROJECT CPAWSB 2 C2 Battery and Alternator Tester User Manual

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BATTERIE- UND
LICHTMASCHINENTESTER
MPAWSB 2 C2
IAN 497435_2204

BATTERY & ALTERNATOR TESTER










Operation and Safety Notes

Translation of the original instructions

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Table of pictograms used

	Read the operating instructions for this product attentively and with care before use.
	Made from recycled material
	Wear protective goggles and protective gloves!
	You are legally obliged to place devices marked as such in a collection which is separate from unsorted municipal waste. Disposal through household waste is prohibited.
	DC voltage
	Caution! Possible risks!
	Caution! Risk of electric shock!
	This device is marked in accordance with the 2012/19/EU directive on old electronic and electrical devices (WEEE).
	Dispose of the device and packaging in an environmentally friendly manner!

Battery & Alternator Tester MPAWSB 2 C2

Introduction



Congratulations! You have purchased one of our high-quality products. The operating instructions form part of this product. They contain important information on safety, usage and disposal. Please familiarise yourself with all operating and safety instructions before use. Use the product only as described and only for the specific applications as stated. Ensure you hand over all documentation when passing the product on to anyone else.

The device should only be used by specialists or those who have been trained.

KEEP OUT OF THE REACH OF CHILDREN!

Intended use

The device is to be used for checking the charge level of a 6 or 12 Volt battery. It can also be used to test the charging function of an alternator. Damage or injury caused by misuse and disregarding the above warning is not covered by the warranty or any liability on the part of the manufacturer. The device is not intended for commercial use. Commercial use will void the guarantee.

Scope of delivery

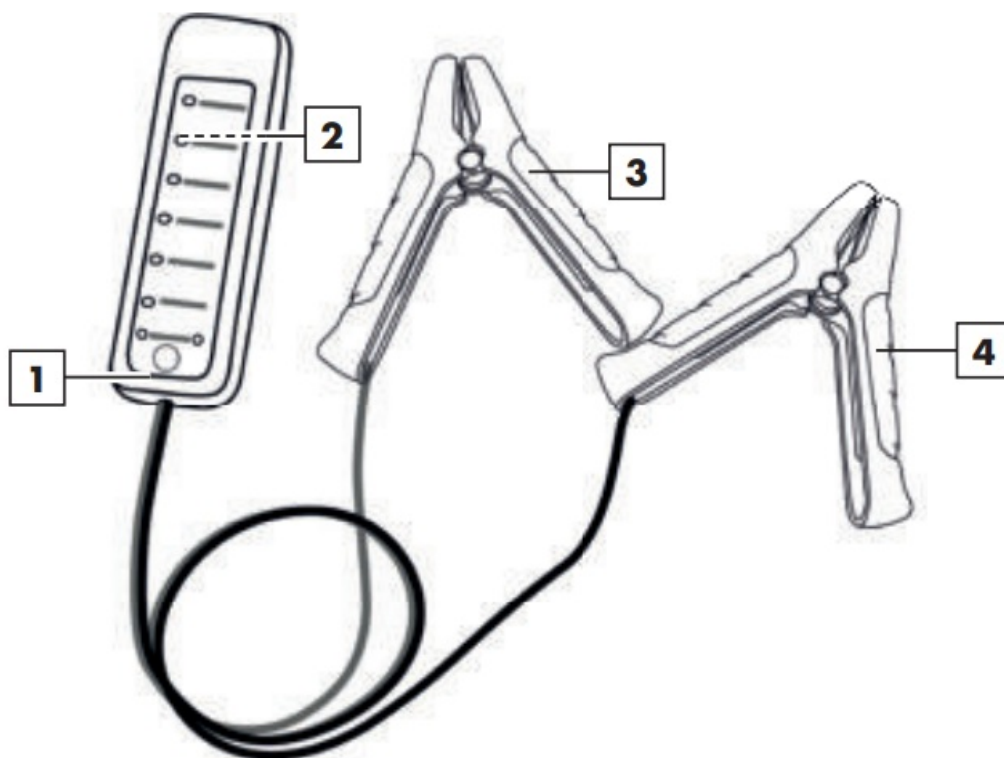
- Battery & Alternator Tester MPAWSB 2 C2
- 2 quick contact connector clamps, fully assembled (1 red "+", 1 black "-")
- Operating instructions

Technical Specifications

- Input voltage in 6 V operation 5.6–7.8 V $\overline{\text{---}}$
- Input voltage in 12 V operation 11.5–15.5 V $\overline{\text{---}}$
- Ambient temperature: 5 °C to 40 °C

Description of device

1. Selector switch for 6 V/12 V operation
2. Magnetic strips (on the back of the device)
3. Red quick contact connector clamp Positive terminal ("+")
4. Black quick contact connector clamp Negative terminal ("-")



Safety instructions

- The device is only suitable for indoor operation!
- Do not use the device in wet or moist environments.
- Do not operate the device with a damaged measuring cable.
- Lay the measuring cable such that it does not come into contact with rotating parts in the engine compartment.



CAUTION: Damaged measuring cables mean there is a danger to life through electric shock. Dispose of the device if the measuring cable is damaged. Measuring cables are not intended to be repaired.



EXPLOSION AND FIRE HAZARDS: Ensure that explosive or flammable substances, such as petrol or solvents cannot be ignited when you are using the device! Keep sources of ignition (e.g. open fire, lit cigars, cigarettes or electric sparks) away from the starter batteries.



DANGER OF CAUSTIC BURNS: Protect your eyes and skin from caustic burns from the acid (sulphuric acid) when it comes into contact with the battery! Do not look directly at the battery when it is connected and use acid-resistant safety goggles, clothing and gloves! If your eyes or skin have come into contact with the sulphuric acid, flush the affected body region with plenty of clear, running water and seek medical advice at once!

- Avoid an electrical short circuit when connecting the device to the battery. Only connect the red quick contact connector clamp 3 to the positive terminal (“+”) of the battery. Only connect the black quick contact connector clamp 4 to the negative terminal (“-”) of the battery.
- Only touch the quick contact connector clamps 3 and 4 on the insulated area!



ATTENTION: AVOID MATERIAL DAMAGE FROM IMPROPER USE!

- Only use the device with the original parts it was delivered with!
- Keep the contact surfaces of the battery free of dust and lubricants. Clean the contact surfaces with a clean, dry cloth as necessary.

Operation

- First connect the red quick contact connector clamp 3 to the positive terminal (“+”) of the battery.
- Then connect the black quick contact connector clamp 4 to the negative terminal (“-”) of the battery.
- During the measurement process, the device can be fixed to the vehicle body using the magnetic strips 2 on the back of the device.

Testing batteries and alternators

Select operating mode

- The device automatically detects whether a 6 V or 12 V battery is connected.
- If this function does not work (e.g. discharged 12 V battery is detected as a 6 V battery), then set the selector switch 1 on the front of the device to 6 V or 12 V, depending on the type of battery or alternator to be tested.

Battery test/Starting capability

- If only the “very low charged” LED lights up, the battery charge level is low. In this LED status the electrical voltage in 6 Volt operating mode is approximately 5.8 Volt and in 12 Volt operating mode it is approximately 11.5 Volt. The battery must be recharged.
- If the “half charged” LED lights up, the battery is approximately half charged. In this LED status the electrical voltage in 6 Volt operating mode is approximately 6.1 Volt and in 12 Volt operating mode it is approximately 12 Volt. It is recommended that the battery is recharged.

- If the “fully charged” LED lights up, then the battery is fully charged and ready to start. In this LED status the electrical voltage in 6 Volt operating mode is approximately 6.4 Volt and in 12 Volt operating mode it is approximately 12.6 Volt.



Attention: Please refer to the operating instructions about the maintenance of the battery prior to charging!



Please note: If no LED lights up in 6 V operating mode, then it can be assumed that the battery is defective or deeply discharged. If an LED in the 6 V operating mode lights up when a 12 V battery is connected, then it can be assumed that the battery is deeply discharged or defective.

Alternator test

- Connect the device to the battery as described under “Operation”.
- Start the engine and switch on all consumers (headlights, radio, heated rear window, etc.).
- Briefly increase the idle speed to 2500 RPM.
- If the “charging function O.K.” LED to “charging function MAXIMUM” lights up, the alternator or voltage regulator is OK. In this LED status the electrical voltage in 6 Volt operating mode is approximately 6.7 Volt or 7.3 Volt and in 12 Volt operating mode it is approximately 13.2 Volt or 14.5 Volt.
- If the “Overvoltage/controller defect” LED lights up, then the alternator or voltage regulator is defective. In this LED status the electrical voltage in 6 Volt operating mode is approximately 7.8 Volt and in 12 Volt operating mode it is approximately 15.5 Volt. In this case contact your motor vehicle garage.

Cleaning



DANGER OF ELECTRIC SHOCK: Always disconnect the connection to the battery, before you clean the device. Under no circumstances should you immerse the device in water or hold it under running water.



ATTENTION: POSSIBLE MATERIAL DAMAGE: Do not use any aggressive or abrasive detergents, as these could corrode the surface of the housing.

Clean the outside of the housing with a slightly damp cloth.

Information about recycling and disposal



DO NOT DISPOSE OF ELECTRICAL TOOLS IN HOUSEHOLD WASTE! DON'T THROW AWAY – RECYCLE!

According to European Directive 2012/19/EU, used electrical devices must be collected separately for environmentally compatible recycling or recovery.

Electrical and electronic devices which have become waste are called old devices. Owners of old devices are obliged to place them in a collection which is separate from unsorted municipal waste.

Owners of old devices have old batteries and old rechargeable battery packs, which are not enclosed by the old device, as well as bulbs which must be separated from the device before it is handed in at a collection point. This does not apply if the old devices are handed in to public waste disposal authorities and they are separated from other old devices there for the purposes of preparation for recycling. If you are unsure, please contact an independent specialist. Owners of old devices from private households can hand these in to collection points for public waste disposal authorities or collection points which have been set up by manufacturers or distributors in line with the ElektroG (German disposal of electrical equipment act). The disposal of defective devices which you have sent in will be carried out free of charge. You can also return the old device to your Kaufl and branch, free of charge. As the end user, it is your responsibility to delete any personal information on the old devices to be disposed of.



Please return this device, accessories and packaging to your local recycling depot.



Please note the marking on the different packaging materials and separate them as necessary. The packaging materials are marked with abbreviations (a) and digits (b) with the following definitions: 1–7: Plastics, 20–22: Paper and cardboard, 80–98: Composite materials.

EC Declaration of Conformity

We,

C. M. C. GMBH

Responsible for documentation:

Dr. Christian Weyler

Katharina-Loth-Str. 15

66386 St. Ingbert

Germany

hereby take sole responsibility for declaring that the product

Battery & Alternator Tester

IAN: 497435_2204

Year of manufacture: 05/2023

Art. no.: 2524

Model: MPAWSB 2 C2

meets the basic safety requirements as specified in the European Directives

EC Guideline on Electromagnetic Compatibility

2014/30/EU

RoHS Directive

2011/65/EU+2015/863/EU and the amendments to these Directives.

The manufacturer will be solely responsible for the creation of the declaration of conformity.

The object of the declaration described above meets the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. This conformity assessment is based on the following harmonised standards:

EN 55014-1:2017

EN 55014-2:2015

St. Ingbert, 01 June 2022

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– Quality Assurance –

Warranty and service information

Warranty from Creative Marketing &

Consulting GmbH

Dear Customer,

The warranty for this equipment is 3 years from the date of purchase. In the event of product defects, you have

legal rights against the retailer of this product.

Your statutory rights are not affected in any way by our warranty conditions, which are described below.

Warranty conditions

The warranty period begins on the date of purchase.

Please retain the original sales receipt. This document is required as your proof of purchase.

Should this product show any defect in materials or manufacture within 3 years from the date of purchase, we will repair or replace it – at our discretion – free of charge. This warranty service requires that you retain proof of purchase (sales receipt) for the defective device for the three year period and that you briefly explain in writing what the fault entails and when it occurred.

If the defect is covered by our warranty, we will repair and return your product or send you a replacement. The original warranty period is not extended when a device is repair or replaced.

Warranty period and statutory claims for defects

The warranty period is not extended by the guarantee.

This also applies to replaced and repaired parts. Any damages or defects detected at the time of purchase must be reported immediately after unpacking. Any incidental repairs after the warranty period are subject to a fee.

Extent of warranty

This device has been manufactured according to strict quality guidelines and carefully inspected before delivery.

The warranty applies to material and manufacturing defects only. This warranty does not extend to product parts, which are subject to normal wear and tear and can thus be regarded as consumable parts, or for damages to fragile parts, e.g. switches, rechargeable batteries or parts made from glass.

This warranty is voided if the product becomes damaged or is improperly used or maintained. For proper use of the product, all of the instructions given in the operating instructions must be followed precisely. If the operating instructions advise you or warn you against certain uses or actions, these must be avoided in all circumstances.

The product is for consumer use only and is not intended for commercial or trade use. The warranty becomes void in the event of misuse and improper use, use of force, and any work on the device that has not been carried out by our authorised service branch.

Processing of warranty claims

To ensure prompt processing of your claim, please follow the instructions given below.

Please retain proof of purchase and the article number (e.g. IAN) for all inquiries.

The product number can be found on the type plate, an engraving, the cover page of your instructions (bottom left), or the sticker on the back or underside of the device.

In the event of malfunctions or other defects, please first contact our service department below by phone or email.

If your product is found to be defective, you can then send your product with proof of purchase (till receipt) and a statement describing what the fault involves and when it occurred free of charge to the service address given.



PLEASE NOTE: You can download this handbook and many more at www.kaufland.com/manual. With this QR code you can gain immediate access to our international website (www.kaufland.com/manual) By clicking on the appropriate country you can gain access to the national overview of our handbooks. By entering the article number (IAN) 497435 you can open the operating instructions.



<http://www.kaufland.com/manual>

How to contact us:

