

Battery charger item-no.: 12720

USER MANUAL

Safety instructions

The following safety instructions should be read and observed before using the battery charging device to avoid injury to the user and damage to the device.

Intended use

The charging device is only to be used to charge lead acid batteries with a nominal voltage of 6 volts or 12 volts and a capacity of 7-180 Ah. It should not be used to charge NiCd or NiMH batteries and other non-rechargeable batteries.

- Only use the charging device in enclosed places.
- Keep children and bystanders away from your work area.
- Do not use the charging device in a damp or wet environment.
- Make sure that you have sufficient lighting.
- Do not place the charging device in direct sunlight, rain or snow.
- Do not use the charging device near explosive gases or liquids.
- Wear appropriate work clothes.
- Store the charging device in a dry, safe place out of the reach of children.
- Do not carry the charging device by the cable and do not pull on the cable to remove the plug from the power socket. Protect the cable from sources of heat, oil and sharp edges.
- Check that the charging device and all cables are in good condition before use.
- Have damaged cables replaced by an approved service centre.
- Do not attempt to carry out any repairs yourself.
- In the event of non-use, the charging device should always be disconnected from the mains supply.
- Avoid any reciprocal contact with crocodile clips at all costs as soon as the charging device is connected to the mains supply. Risk of short-circuiting!

Combustible gases develop during the charging of lead acid batteries. Naked flames should therefore be avoided.

Only use the charging device in a well ventilated area.

First of all, always connect the crocodile clips to the battery terminals before plugging the charging device into the mains supply.

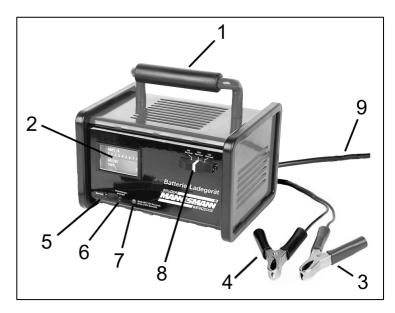
To terminate the charging process, pull out the power plug and then remove the crocodile clips from the battery terminals.

Keep battery acids away from clothing or skin. If contact does occur, rinse the affected areas thoroughly with water. In the event of eye contact, medical assistance should be sought immediately.



Description of the device

- 1. Carry handle
- 2. Amperemeter
- 3. Red battery clip (PLUS)
- 4. Black battery clip (MINUS)
- 5. Operation display
- 6. Voltage reversal display
- 7. Charging state display
- 8. Charging selector switch
- 9. Power supply cord



Technical data

Operating voltage 230V~ / 50 Hz Charging voltage: switchable 6V/ 12V

Charging rate:

12V batteries 8A fast charge

2A normal charge

6V batteries 1.5A normal charge

Protection type: IP20

Ambient temperature: -20°C to +55°C

Amperemeter

The amperemeter shows the approximate charging progress of the battery connected. The charging state is determined using an acidimeter or a voltmeter.

Voltage reversal display

The charging device is equipped with a voltage reversal display. If the crocodile clips are incorrectly connected to the battery to be charged, the corresponding display lights up on the front panel and the charging process is not started. In this case, immediately disconnect the charging device from the mains supply, connect the red clip to PLUS (+) and the black clip to MINUS (-) on the battery and reconnect the charging device to the mains supply.

Short circuit protection

If the crocodile clips touch when the power cord is plugged into the mains supply, the charging process will not start and the amperemeter will stay on "0". Unplug the charging device from the mains, connect the crocodile clips to the battery terminals and restart the procedure.

Float charging

In the operation mode "12V fast load", the device automatically switches to "float charging mode" as soon as the battery is fully charged. The charging state display changes from "YELLOW" to "GREEN".



Overload protection

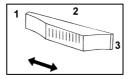
A 15A overload safety fuse is installed on the back of the charging device. To replace this, flip down the cover, pull out the safety fuse and replace it with a safety fuse of a similar type and strength.

User instructions

Remove your vehicle's cable harness from the battery terminals. If necessary, unscrew the protective covers and check the acid level. If this is below the minimum level marked on the battery, fill up the corresponding cells with **distilled water**. Do not use normal tap water under any circumstances.

During the charging process, the battery closure should stay open so that released gases can escape. (In the case of sealed batteries, the opening process and the refilling of distilled water are not needed.)

- 1. First of all, connect the red charging cable to the battery PLUS terminal and then the black cable to a body part which is far away from the battery and the fuel pipe. Make sure that the crocodile clips are in good contact and are firmly held in place.
- 2. Move the selector switch into the desired position:
 - 1 6V normal charge
 - 2 12V normal charge
 - 3 12V fast charge



- 3. Only then connect the power plug to a 230V~ mains supply.
- 4. The amperemeter shows the charging rate during the charging. The longer the charging process continues, the smaller the amplitude on the display.
- 5. As soon as the amperemeter shows "0", the battery is fully charged and the charging process can be terminated.
- 6. Disconnect the charging device from the mains supply, remove the crocodile clips from the body and then remove the clip from the battery PLUS terminal.
- 7. Check the acid level and refill with distilled water if necessary. Carefully seal the covers and attach the vehicle cable harness to the battery terminals.
- 8. Check the battery voltage with an acidimeter or voltmeter.



2 year full warranty

The warranty period for this device commences on the day of purchase. Please provide proof of the date of purchase by sending us the original receipt.

We guarantee during the warranty period:

- free of charge rectification of any faults.
- free replacement for all damaged parts.
- inclusive of free, professional service (i.e. free assembly by our specialists)

The prerequisite is that the fault cannot be attributed to improper handling.

If you have any queries or quality issues, please contact the manufacturer directly:

Brüder Mannesmann Werkzeuge GmbH Repair service department Lempstr. 24

42859 Remscheid

Telephone: +49 (0)2191/37 14 71 Fax: +49 (0)2191/38 64 77

E-mail: service@br-mannesmann.de

Unused power tools and environmental protection

- If you use the charging device so intensively that it must be replaced or if you no longer need it, you should dispose of the electric device at a central recycling point.
- You can obtain information about collection facilities for your electric device via your local disposal company or at your local administration office.
- Electric devices contain valuable recyclable raw materials. You therefore contribute to the recycling of valuable raw materials when you hand in your old device to a central collection facility.
- Electric tools also contain substances which could be harmful to humans and the environment in the event of improper disposal.



 The crossed-out rubbish container sign means that the device identified must be disposed of in a separate collection for electric and electronic devices for recycling.