

emission-free | low noise | thoroughly



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1 EG-Konformitätserklärung

EC declaration of conformity according to EC guideline 89/392 / EEC

The manufacturer / distributor: Westermann GmbH & Co. KG Schützenhof 23 D - 49716 Meppen

hereby declares that the following product

Product name: CLEANMELEON 800 Elektro

make: Westermann GmbH & Co. KG

Serial number: 26. _ _ _

Model / type description: CMA 800 Elektro

to which this declaration relates complies with the relevant basic safety and health requirements of EC Directive 89/392 / EEC and EMC Directive 89/336 / EEC.

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Date: 19.01.2017

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2 Gesetzliche Angaben und Informationen

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The Westermann GmbH & Co. KG reserves the right to change this document and the subject matter described therein at any time without prior notice, in particular to improve and expand it, provided and insofar as contractual agreements or legal requirements do not conflict with this.

3.1 Scope of supply

The operating manual is part of the working equipment and must be kept accessible in the immediate vicinity of the machine at all times.

The operating manual contains important information for safe and effective operation of the machine. Therefore, the operator must read and understand this operating manual thoroughly.

The basic requirement for safe working is compliance with all safety instructions and operating procedures given in this operating manual. The local accident prevention regulations and general safety regulations for the specific application must also be followed.

The provided supplier documentation for the installed components must also be followed.

The illustrations are provided for basic understanding and may deviate from the actual design.

The manufacturer assumes no liability for damage due to non-observance of the operating manual, improper use, improperly performed maintenance or repairs, unauthorised modifications, technical modifications and use of unauthorised spare parts.

3.2 Conventions

3.2.1 Symbols and signal words

Symbol / signal word Meaning



Indicates the handling and effects of the safety information.



Alerts you to a dangerous situation that, if not avoided, <u>will</u> result in death or serious injury.



Alerts you to a dangerous situation that, if not avoided, <u>may</u> result in death or serious injury.



Alerts you to a dangerous situation that, if not avoided, may result in minor or moderate injury.



Indicates possible damage to property and other important information.

3.2.2 Pictogram overview

The safety instructions contained in this operating manual, which can cause danger to people and the machine if ignored, are specially marked with the following pictograms.

Pictogram	Importance
\triangle	General warning sign
\triangle	Falling hazard
	Automatic start-up hazard
	Opposing rollers hazard (Entanglement risk)
\bigstar	Harmful or irritating substances hazard
	Toxic substances hazard
	Hand injuries hazard
	Hot surface hazard
₽	Crushing hazard
	Slip hazard
4	Electrical voltage hazard
<u>*</u>	Obstacles on the ground hazard

3.3 Marking on the machine

The scraper CMA 800 Elektro has a nameplate that contains all basic data. Components and accessories from suppliers have their own nameplates.



3.3.1 Warning pictogram on the machine



Article number: AUF-00-00016



Labels must always be kept clean. Missing or damaged labels must be replaced.

3.4 Ordering spare parts

NOTICE

When ordering spare parts or accessories, state the type designation, machine number and year of manufacture. The use of accessories and spare parts from other manufacturers is only permitted after consultation with the manufacturer.

Original accessories and manufacturer-authorised accessories are provided for safety. Use of other accessories may void liability for consequential damages.

4.1 Intendent use of the machine

The Cleanmeleon 800 Elektro battery-operated machine for cleaning slatted floors.

The powerful DC motor and the high-quality rechargeable batteries guarantee a powerful and long-term work with the machine.

Various gap systems can be cleaned of faeces residues in a very short time by using the double gap scraper.

Adherence to the instructions for use given by the manufacturer is essential for proper use.

Only proper operation, compliance with the safety instructions and appropriate maintenance and care guarantee the long-term use of your newly acquired machine.

Please note that only the handling required for the Cleanmeleon 800 Elektro is explained.

HINWEIS

Store the machine in a dry place and protect it from moisture and water! When cleaning the device, do not aim with high pressure or water at the handlebar, as this could damage the water-sensitive controls in the upper area of the handlebar.

4.2 Machine naming information

The scraper CMA 800 Elektro is referred to in the following simply as a machine or CMA 800 Elektro.

4.3 Requirements for the operator



Danger due to misuse! Misuse can lead to dangerous situations.

Therefore:

- ✓ Refrain from any use beyond the intended use.
- ✓ Strictly comply with all information in this operating manual and, where applicable, the associated documents.
- ✓ Switching operations on the controls can only be carried out by instructed persons.
- ✓ Maintenance and servicing must be carried out exclusively by trained maintenance personnel.
- ✓ Refrain from modifying, converting or altering the design or individual pieces of equipment with the aim of changing the area of application or usability.
- ✓ Only use the equipment with the aids specified in the operating manual.
- ✓ Only use the equipment in a technically perfect condition.
- ✓ Use in areas with an explosive atmosphere is prohibited.
- ✓ Do not exceed the carrying capacity of the equipment.
- ✓ Avoid transporting persons with the equipment.

NOTICE

Maintenance and repair

Maintenance and repair work is part of the intended use and must be carried out in compliance with the maintenance intervals.

4.4 Danger area



Danger while staying in the danger area!



Staying in the danger zone involves risks that unauthorised persons cannot assess.

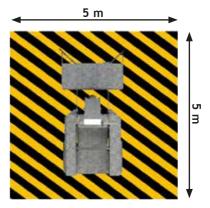
Therefore:

- ✓ Always monitor the danger zone during the work process and ensure that no people are present there.
- ✓ If an unauthorised person enters the danger zone, warn the person and stop operating immediately.

The area surrounding the machine with a safety distance of at least five meter is defined as a danger area.

This area must be free of people during the operation in order not to influence the work process and to cause hazards.

(Fig. 1 - Danger area)



4.5 Foreseeable misuse | Reasonably foreseeable misuse

All use deviating from the intended use is considered misuse and is not permitted.

These include, for example

- Transport of humans and animals
- Use as a climbing aid
- Use outside the permissible operating limits

4.6 Behaviour in case of emergency



4.6.1 Personal injury



If during use an event occurs from which personal injury results, the measures taken depend on the severity of the injury.

4.6.2 Case of fire



In the event of a fire, immediate action must be taken.

- Protect people
- Fight the fire
- Repair damage

4.6.3 Technical complications

If technical complications occur during use, they must be remedied by a specialist before further use.

4.7 Application

The area of application includes all locations worldwide that enable safe use of the machine. Use must be in accordance with the specified intended use.

4.7.1 Local requirements

The area of application includes all locations worldwide that enable safe use of the machine. To this end, the following criteria must be met.

- ✓ Safe installation of the machine
- √ Temperature range of -10°C to +40°C
- ✓ Suitable area of use which guarantees the safe usage of the CMA 800.

4.7.2 Disposal

For environmentally sound disposal, the hazardous substances must be disposed of separately. All other materials must be sorted according to their material quality and disposed of accordingly.

4.8 Responsibility of the operator

If the machine is used commercially, the operator is subject to the statutory provisions on occupational safety.

4.8.1 Obligations of the operator

The operator is responsible for ensuring the machine is in good condition.

- ✓ The operator must regularly check all safety equipment for functionality and completeness.
- ✓ The operator must ensure that prescribed maintenance is carried out as scheduled.
- ✓ The operator must inform the manufacturer immediately of any damage detected.
- ✓ The operator must provide the personnel with the necessary protective equipment and check, maintain and replace defective parts in accordance with regulations.
- ✓ The operator must request a new copy of the instruction manual if it is in poor condition or parts are missing.
- ✓ The operator must immediately replace all labels, signs or stickers that are in poorly readable condition or have been lost.
- ✓ The operator must keep the workrooms and escape routes free and in good condition.

NOTICE

The battery must be properly and permanently reconnected to the charging station after each use to avoid deep discharge of the battery.

4.9 Personal responsibility

Basic requirements

- ✓ Only people who are expected to adhere to the safety regulations and perform their work reliably may enter the danger zone.
- ✓ People whose ability to act is influenced by drugs, alcohol, medicines or the like are not permitted.
- ✓ When selecting personnel, the age and occupation-specific regulations
 applicable at the place of work must be observed.
- ✓ The user must be at least 16 years old!

Qualifications

In general, people may only perform the activities for which they have the necessary qualifications.

Specialists for installation and start-up

Able to carry out the work entrusted and to independently recognize and avoid dangerous situations due to professional training, knowledge and experience as well as knowledge of the relevant provisions.

Service staff for maintenance and start-up

Able to carry out the work entrusted and to independently recognize and avoid possible danger due to professional training, knowledge and experience as well as knowledge of the relevant provisions.

Electrical specialist for maintenance, installation and start-up

Able to carry out the work and to independently recognize and avoid possible danger due to professional training, knowledge and experience as well as knowledge of the relevant standards and provisions. The electrical specialist is trained for the specific location in which he works and knows the relevant standards and regulations.

Instructed operating personnel for operation

Is informed of the tasks entrusted and possible dangers of improper conduct after instruction given by the operating company.

4.10 Observance of the operating manual



The operating manual is provided by the manufacturer or supplier of the product in order to provide the user with essential knowledge for the proper and safe use and to point out dangers in handling the machine.

Before starting up the machine, the operating manual must be worked through; it must be observed carefully during start-up. We point out that we accept no liability for damage and malfunctions resulting from non-compliance with the operating manual.

The illustrations and information contained in the operating manual are subject to technical modifications necessary for the improvement of the machine.

4.11 Residual hazards and protective measures

The knowledge and technical implementation of the safety instructions contained in this documentation is a prerequisite for a faultless product. However, this documentation cannot cover all the details of every conceivable case of machine use. Therefore, as in any other case, especially due to human error, there is a residual risk. This residual risk should be kept to a minimum by this documentation.

4.12 Safety marking on the machine



Danger and information points, as well as important information must be marked on the machine and, if necessary, due to dirt or if unrecognisable, cleaned or renewed.

4.13 Personal protection

The Personal Protective Equipment (PPE) is not included in the scope of delivery. Responsibility for the availability, testing and proper use of PPE therefore lies with the operator.

- ✓ Wear PPE according to the instructions below.
- ✓ Do not enter the danger area without PPE.
- ✓ On the equipment follow the attached instructions for PPE.



Wear foot protection

Protection of the feet from heavy falling parts, slip prevention, piercing of footwear by sharp-edged parts.



Wear protective clothing

Close-fitting workwear with low tear resistance, with tight sleeves and no protruding parts. Predominantly serves as protection from being drawn into rotating machine parts. When working on the electrical system, wear work clothing with arc protection.



Use hand protection

Protection of hands from friction, abrasions, punctures and cuts, as well as from contact with hot surfaces. When working on live parts, use insulated gloves.



Use hearing protection

Protection of hearing from damaging sound frequen-

5 Safety instructions for the operator/user

If other persons are to operate the machine, they must be instructed in the operation of the machine and the operating manual must be read and understood in order to avoid accidents.

Before using the machine, watch out for people, animals, obstacles, etc. in the area of the machine to avoid personal injury or property damage.

Never take people with you on the machine or on attachments.

The area to be cleaned must first be cleaned of large foreign bodies.

Observe the marked hazard area specified in chapter 4.4 on page 13.

5 Safety instructions for the operator/user

5.1 Before use

Always check the CMA 800 Elektro for possible damage or wear. Only a flaw-less machine may be used.

For repairs and replacements, please only use original spare parts or parts approved by the manufacturer.

The operator must be 18 years old and is responsible to any people or animals in the work area.

The surface to be cleaned must first be cleaned of large foreign bodies. Under certain circumstances, these could be moved in an uncontrolled manner by the machine.

Please remove the key after each use!

After each work process, the machine must be connected to the charger which is supplied. This prevents deep discharge of the batteries and the machine is ready for use at any time.

Familiarize yourself with the handling of the machine. Make a note of how to turn it off in a case of emergency.

The key must be removed before the following work:

- Checking, cleaning or other work on the machine
- Unfamiliar noises or operating behavior
- · With all settings of the machine.

Only remove the attaching machine (the pusher) from the basic machine for cleaning. Do not drive the machine without the pusher!

NOTICE

The CMA 800 Elektro is used purely for cleaning slatted floors in dairy farms and can therefore only be used on flat surfaces! While working in the stable, watch out for possible steps and/or kicks from the animals!

6 Technical data

6.1 General technical data of CMA 800 Elektro

DC motor:

24V, 800 watts

Batteries / rechargeable batteries:

2 x 12V, 44 Ah

Basic machine:

- Total weight (incl. pusher) approx. 134 kg
- 3-wheel carrier vehicle, steering via the front axle
- AS tires (16 x 6.50-8)
- Electronic charger 24 V 4 Ah
- · robust, galvanized frame
- Forward / backwards drive via switch
- Infinitely variable speed control
- · adjustable handlebar

Attaching machine "Double scraper ASS 800":

- Lifting up the attachment by using the foot pedal
- 2 flexible rubber strips lying one behind the other
- · V-shaped front bar

7 Assembly, comissioning

7.1 Start preparation

Please check that the scraper is complete.

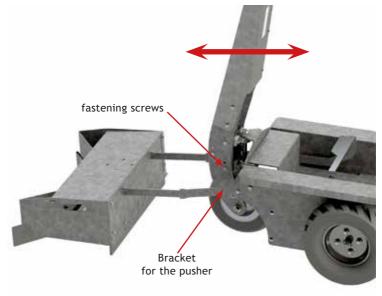
Please read the operating instructions with the associated setting instructions before commissioning!

7.2 Adjustment of the handlebar and holder for the pusher

Mount the handlebar after delivery by attaching it with the screws (see picture).

it is possible to loosen the screws at both lower sides of the handlebar to adjust it forwards or backwards. Then tighten the screws again. After that the brackets for the pusher must be attached to the machine (see picture).

The lever is mounted on both sides from the inside, so that the angled part is facing up. The pusher can then be pushed open (see page 24).

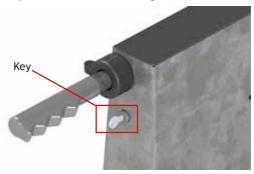


(Fig. 2: Adjustment of handlebar)

NOTICE

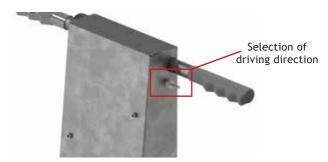
Before the device can be used, the key supplied must be inserted and turned on the right-hand side of the handlebar (see sticker).

1. Insert the key and turn in the driving direction.



(Fig. 3: Key)

2. Selection of driving direction forwards / neutral / backwards.



(Fig. 4: Selection of driving direction)

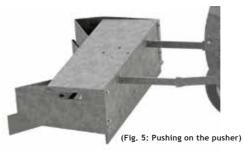
You select the driving speed using the twist grip. The more you turn it, the faster the machine drives in the previously selected driving direction.

9 Installation / Adjustment of attaching machine

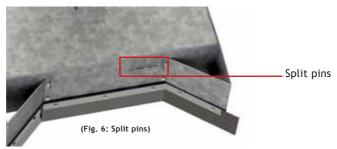
9.1 Installation of attaching machine

This is the same process as for removal. Simply slide the pusher in and insert the split pin.

1) The pusher is pushed onto the fork as far as possible.

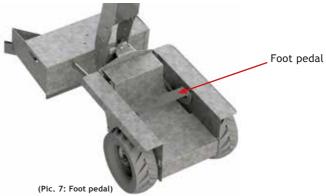


2) Now the two split pins are inserted.



9.2 Adjustment of attaching machine

The attachment machine can be raised and lowered by using the foot pedal.



10 Charging CMA 800 Elektro

Please, only use the charger included in the scope of delivery.

- 1) Remove the power plug from the holder on the handlebar.
- 2) Put the toggle switch on the left side of the handlebar in neutral position.
- 3) Insert the mains plug into the 220V socket.
- 4) The charge status (charged or full) can be read on the control element on the inside of the handlebar.



The charger must be connected after every use of the machine. The overcharge protection in the charger prevents the batteries from being overcharged.

Indicator LEDs

Yellow on: Mains voltage is present Charging completed

Green flashes: Loading

Yellow and green together: Charger on standby

Function of the voltage monitor

The voltage monitor integrated in the machine prevents deep discharge of the batteries. The machine switches to a slow speed level if the voltage falls below the specified level.

The batteries must be charged immediately. The normal speed level is only released again after the above specified voltage has been reached.

11 Maintenance and servicing

11.1 Screw fittings

Check bolts and nuts for tightness after five hours of operation for the first time, then regularly (every 50 hours) and retighten if necessary.

- All torques TA are standard values for standard metric threads according to DIN. Coefficient of friction 0.14 new screws unlubricated.
 These values have been recommended as standard values by various screw manufacturers. We cannot assume any liability for the application.
- · Self-locking nuts must be replaced after each disassembly.



Torque for screwls TA						
Thread	3.6	5.6	6.8	8.8	10.9	12.9
M6	3.43	4.51	8.73	10.3	14.71	17.65
M8	8.24	10.79	21.57	25.50	35.30	42.17
M10	16.67	21.57	42.17	50.01	70.61	85.32
M12	28.44	38.25	73.55	87.28	122.58	147.10
M14	45.11	60.80	116.70	135.27	194.17	235.36
M16	69.63	93.16	178.46	210.84	299.10	357.94
M18	95.13	127.40	245.17	289.30	411.88	490.34
M20	135.33	180.44	348.14	411.88	576.50	669.26
M22	162.40	245.17	470.72	558.98	784.45	941.44

11 Maintenance and servicing

11.2 Procedures after maintenance

After completing all maintenance work, perform the following steps:

- Make sure that all previously loosened bolts are tightened.
- Make sure that all previously removed safety devices and covers are properly reinstalled.
- Make sure that all tools, materials and other equipment that have been used are removed from the working area.
- Clean the working area and remove cleaning material such as cleaning rags etc.
- · Make sure that all safety devices function properly.

11.3 Notes regarding maintenance work



Only original spare parts may be used for servicing work and components replaced for this reason.

11.4 Documentary list



Events and interventions must be recorded in a list of records. The lists of records must be filed digitally and/or in paper form.

12 Residual dangers



Danger of slipping / stumbling



Danger of injury due to slipping and stumbling! Careless operation, soiling of the stand area and unsuitable footwear for the work can lead to slipping or stumbling and resulting injuries.

Therefore:

- ✓ The machine may only be operated by trained personnel.
- ✓ Clean the stand area regularly.
- ✓ Wear suitable footwear.
- ✓ Pay attention to free body edges and pedals.



Machine kickback



Danger of injury due to unpredictable machine movements!

Unpredictable machine movements may lead to personal injury or damage to property.

Therefore:

- ✓ The machine may only be operated by trained personnel.
- ✓ Perform all operating steps according to the information in these operating instructions.
- ✓ Sweepings and sweeping quantity must be considered
- ✓ Check brush height
- ✓ Avoid collisions with solid objects





Improper operation



Danger of injury due to improper operation! Improper operation may lead to personal injury or damage to property.

Therefore:

- ✓ The machine may only be operated by trained personel.
- ✓ Perform all operating steps according to the information in these operating instructions.
- ✓ Before commencing work, ensure that all fastenings are properly installed and undamaged.
- ✓ Observe order and cleanliness! Loose objects such as tools, cables and components that are lying around or piled up are sources of accidents.



Movements during operation



Danger of injury due to moving components! During operation, individual components or parts of the machine may move and lead to dangerous situations.

Therefore:

- ✓ Always observe the danger area during operation and ensure that no unauthorised persons are present therein.
- ✓ Use the main switch to switch off the equipment and secure it against reactivation before performing any work on the machine.
- ✓ Perform all operating steps according to the information in the operating instructions.
- ✓ Do not operate the machine without the safety devices. Before commencing work, firmly mount all safety devices.

13 Troubleshooting

13.1 CMA 800 Elektro

The following table contains the most common malfunctions and their remedies. In the event of a motor defect or any other defect, please contact your dealer.

Fault	Cause	Remedy
Vehicle shows no function and reaction	Battery discharges or defective Key switch operated or defective Main fuse removed or defective Drive control or motor defective	Check battery voltage and connections Check key switch for continuity Check fuse Check drive control and motor, change if necessary
Vehicle drives only forwards or only backwards	Direction switch defective Incorrect connection of switch for driving direction	Change switch Check connection of switch
Vehicle drives only with low speed or power	Battery discharged Battery was deeply discharged and not fully charged Battery connections faulty Voltage monitor defective	Charge battery Charge the battery fully Check battery connections Change voltage monitor
Vehicle keeps on rolling	heavily sloping ground Gas handle faulty	bring the vehicle onto a level surface Change gas handle
Abnormal noises, rattle, etc.	Screws on the device loose	Control screws, tighten if necessary
Pusher does not clean properly	worn rubber lips	Renew rubber lips
Charger shows nor or faulty function	LEDs are off - no mains voltage Yellow LED flashes 1x, 2x or 3x - battery capacity can be too high, batter can be damaged Yellow LED flashes 4x Yellow LED flashed 5x - chaarger overheated	 Plug in the power plug Change battery if necessary battery voltage exceeds the voltage range of the charger disconnect from the mains, wait 10 minutes, connect again
	Yellow and green LED flash at the same time	Battery not connected or deeply discharged, battery conenctions reversed

14 Warranty policy

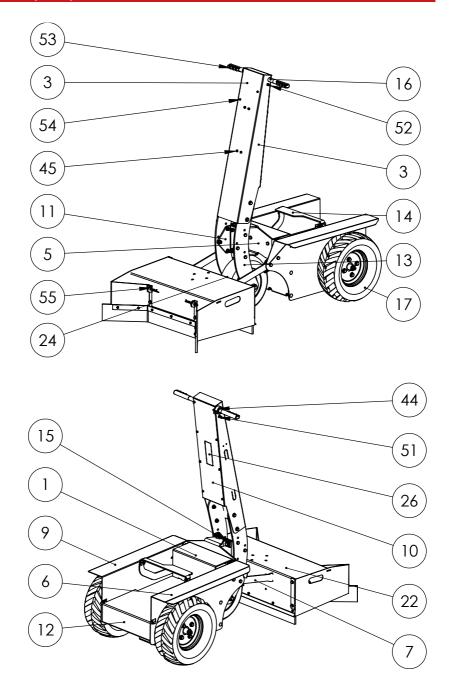
The following policies are valid from 01.01.2002 for the Westermann warranty.

- For Westermann products of the consumer goods sector (private use), which have been sold via the Westermann specialist trade, the warranty period is 2 years from the date of sale to the end customer. For Westermann products of the capital goods sector (commercial/professional), which have been sold via the Westermann specialist trade, the warranty period is 1 year from the date of sale to the end customer.
- The warranty covers defects which can be traced back to material and/ or manufacturer defects. All faults occurring due to a Westermann product or production defect during the warranty period will be acknowledged and corrected by repair or a spare parts delivery via a Westermann specialised dealer.
- 3. Excluded from this are wear parts such as Bowden cables, starter ropes, V-belts, bearings, clutch plates, tyres, air filters, spark plugs, glow plugs, fuel filters, oil filters, sweeping brushes, rubber lips, batteries if these cannot be proven to have clear material defects.
- 4. Warranty claims are generally excluded in the event of inadequate maintenance and care. Regular maintenance and cleaning of the product as specified in the Westermann operating instructions is essential. Damage due to improper maintenance and cleaning cannot be accepted as a case of warranty.
- 5. The operating instructions for the respective product as well as the safety notes must be observed. Damage caused by faulty operation, improper use or use of accessories not authorised by Westermann GmbH & Co. KG, cannot be accepted as a case of warranty.
- 6. Make sure that only original Westermann spare parts and Westermann accessories are used. They can be obtained from Westermann specialised dealers. Damage and an increased danger of accidents cannot be ruled out if other than original Westermann spare parts or Westermann accessories have been used. These consequential damages are not subject to warranty claims.
- 7. As from 01/01/2002, only Westermann warranty claim forms must be used. The warranty claim forms are mandatory. Exceptions will not be accepted. Warranty claim forms without the required information cannot be processed and will be returned unprocessed for completion of the missing information.
- 8. The Westermann Machine and Warranty Pass (warranty document) must be sent to Westermann Customer Service within 4 weeks of the sale of the

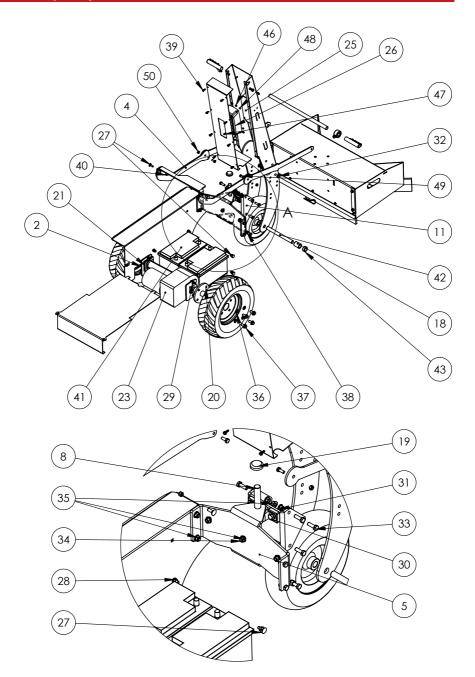
14 Warranty policy

- product, complete with the information on the end customer, the end customer's confirmation by signature and the indication of use (private | commercial | professional).
- 9. The warranty period for original Westermann spare parts is 2 years if the installation by a Westermann specialised dealer is proven (for wearing parts the limitation under point 3 applies). For warranty claims relating to spare part deliveries or warranty repairs, we ask you to keep the relevant parts on call for 2 months after receipt of the warranty claim. We may require the relevant part for examination.
- 10. As from 01/01/2002, for logistical reasons, spare parts required for warranty purposes can only be ordered via Westermann Customer Service. From Monday to Friday between 08:00 a.m. and 4:30 p.m., telephone orders are accepted on +49(0)5931 / 49690-0. Please state the item no., the serial no. of the device in question and the customer no. You may also forward your warranty spare parts order to us via fax: +49(0)5931 / 49690-99.
- 11. Should your warranty claim be rejected, you will be charged for the ordered spare parts at their usual purchase conditions. The invoice will also be issued if no warranty claim has been received by Westermann Customer Service within 4 weeks. If a Westermann spare part for warranty repairs is not available at short notice (within 2 working days) and you use an original Westermann spare part from your stock to repair the damage, we will deliver a replacement free of charge as soon as it is available again or can be supplied by Westermann Customer Service. If a spare part is no longer available (NLA), the purchase price paid by you will be refunded.
- 12. The complained parts or machines are to be sent free of charge to the Westermann works in Meppen. After the warranty has been accepted, the freight costs will be reimbursed.
- 13. The warranty claim must be submitted to Westermann Customer Service no later than 5 working days after the repair has been performed to ensure a fast processing. Warranty claims received 3 months after repair can no longer be processed.
- 14. All previous warranty guidelines as well as the conditions of the general terms and conditions and point 7 hereby lose their validity.

Westermann GmbH & Co. KG



Pos.Nr.	Artikel	BENENNUNG	part name	Menge/ quantity
1	LA-00-00164	Grundblech CMA 800	base plate CMA 800	1
2	LA-00-00439	Zentrierblech	centering plate	2
3	LA-00-00152	Lenkkonsole	steering console	1
4	LA-00-00155	Hebel 495x188x6	lever 495x188x6	2
5	LA-00-00156	Gelenkblech CMA 800	joint plate CMA 800	1
6	LA-00-00163	Träger rechts CMA 800	fender right CMA 800	1
7	LA-00-00168	Aufnahme	receiver	2
8	DR-00-00028	Welle für CMA Ø20	shaft for CMA Ø20	1
9	LA-00-00382	Träger links CMA 800	fender left CMA 800	1
10	LA-00-00153	Abdeckung	cover	1
11	LA-00-00157	Lagerblech	bearing plate	1
12	LA-00-00165	Auftrittblech CMA 800	step plate CMA 800	1
13	LA-00-00158	Lenkradhalter	steering console holder	2
14	LA-00-00154	Trittpedale	foot pedal	1
15	KT-00-00110	Lager UCP 204	bearing UCP 204	2
16	DR-00-00027	Griffrohr	handhold	1
17	RE-00-00017(rechts) RE-00-00018(links) (RE-00-00001)	Antriebsrad rechts / links (Antriebsrad bis März 2021)	drive wheel right / left (drive wheel until march 2021)	2
18	DR-00-00049	Distanzbuchse Hinterrad	spacer rear wheel	2
19	KT-00-00186	Radkappe 20er	hub cap 20mm	1
20	SB-00-00021	Radnabe CM2	wheel hub CM2	2
21	LA-00-00167	Distanzscheibe	distance plate	4
22	100908	ASS800 (Anbauspaltenschieber)		1
23	KT-00-00333 KT-00-00332	Getriebe CMA800 Motor CMA 800		1
24	RE-00-00016	Luftrad 172 ABS 20x75	wheel 172 ABS 20x75	1
25	LA-00-01078	Montageblech Ladegerät	mounting plate charger	1
26	KS-00-00019	Ladegerät CMA / WS800	charger CMA / WS 800	1
27	DIN-603-M8x25	Flachrundschraube M8x25	mushroom head screw M8x25	10
28	DIN-SZ-M8	Sperrzahnmutter M8 DIN 6923	locking nut M8	12
29	DIN-SZ-M8x20	Sperrzahnschraube M8x20	locking screw M8x20	4
30	DIN-933-M12x35	Sechskantschraube M12x35	hexagon screw M12x35	4
31	DIN-985-M12	Sechskantmutter M12 selbsts.	hexagon nut M12 selflocking	4



Pos.Nr.	Artikel	BENENNUNG	part name	Menge/ quantity
32	DIN-SZ-M10x25	Sperrzahnschraube M10x25	locking screw M10x25	4
33	DIN-933-M10x30	Sechskantschraube M10x30	hexagon screw M10x30	8
34	DIN-933-M10x25	Sechskantschraube M10x25	hexagon screw M10x25	7
35	DIN-SZ-M10	Sperrzahnmutter M10	locking nut M10	17
36	DIN-6319-13x24x4,6	Kugelscheibe Form C	spherical disc	8
37	DIN-6921-M12x20	Sechskantschraube M12x20	hexagone screw M12x20	8
38	DIN-985-M10	Sechskantmutter M10 selbsts.	hexagon nut M10 selflocking	2
39	DIN-7504-4,8x19	Sechskantbohrschraube 4,8x19	self tapping screw 4,8x19	8
40	DIN-985-M8	Sechskantmutter M8 selbsts.	hexagon nut M8 selflocking	4
41	KS-00-00022	Batterie naß, 12V, 60 Ah	battery 12V 60 Ah	2
42	DR-00-00113	Zylinderachse	cylindrical axis	1
43	KT-00-00167	Stellring 20 DIN 705 mit Gewindestift	adjustment ring 20mm DIN 705 with set screw	2
44	KT-00-01017 (KT-00-00072)	Daumengas (Gasgriff bis März 2021)	thumb throttle (throttle until march 2021)	1
45	DIN-6921-M5x10	Sechskantschraube mit Flansch DIN 6921-M5 x10	hexagon flange screw DIN-6921 M5x10	4
46	DIN-6923-M5	Sechskantmutter mit Flansch DIN 6923 - M5 - N	Hexagon Flange Nut DIN 6923 - M5	4
47	DIN-912-M4x20	Innensechskantschraube DIN 912 M4 x 20	allen screw DIN 912 M4x20	4
48	DIN-934-M4	Sechskantmutter DIN 934 M4	hexagon nut DIN 934 M4	4
49	DIN-933-M8x20	Sechskantschraube DIN 933 M8x20	hexagon screw DIN 933 M8x20	2
50	DIN-934-M8	Sechskantmutter DIN 934 M8	Hexagon Nut DIN 934 M8	2
51	KT-00-01019 (KT-00-00247)	Zündschloss (CMA,WS) (Zündschloss bis März 2021)	ignition lock (WS,CMA) (ignition lock until march 2021)	1
52	KT-00-01021 (KS-00-00024)	Fahrtrichtungsschalter 3 Polig (Fahrtrichtungsschalter 6 Polig bis März 2021)	drive direction switch 3 pins (drive direction switch 6 pins until march 2021)	1
53	KT-00-00193	Muldengriff schwarz	handles black	2
54	DIN-912-M5x20	Innensechskantschraube DIN 912 M5 x 20	allen screw DIN 912 M5x20	2
55	KT-00-00171	Rohrklappsplint 4,5mm	pipe split pin 4,5mm	2

Interne Bauteile / internal parts

Artikel	Benennung	part name
KS-00-00014	60A Sicherung	60A fuse
KT-00-01020 (KS-00-00011)	Kabelbaum (Kabelbaum bis März 2021)	cable harness (cable harness until march 2021)

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17 Overview maintenance

Date	Maintenance	Done by



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Your expert dealer