



Scraper
WS 800 Vario

The new generation of scrapers.

Operating instruction



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1 EC declaration of conformity

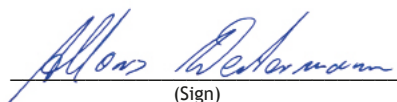
EC declaration of conformity
according to the EC directive 89/392 / EEC

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

declares under sole responsibility that the following product

Westermann Scraper 800 (WS 800 Vario),
to which this declaration relates, complies with the relevant basic health and safety
requirements of EC Directive 89/392 / EEC and EMC Directive 89/336 / EEC.

Meppen, 05.10.2020



(Sign)

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2 Legal information

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Personally liable partner:

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3 Important basic information

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 Important basic information

3.2.2 Pictogram overview

The safety notes within these operating instructions, which may endanger persons and the machine if not observed, are specifically marked by the following pictograms.

Pictogram	Meaning
	General warning sign
	Warning of danger of falling
	Warning of automatic startup
	Warning of counter-rotating rollers (danger of drawn in)
	Warning of harmful or irritating substances
	Warning of toxic substances
	Warning of hand injury
	Warning of hot surface
	Warning of danger of crushing
	Warning of danger of slipping
	Warning of electrical voltage
	Warning of obstacles on the ground

Marking on the machine

The Westermann scraper 800, **WS 800** for short, is an akku driven scraper.

A powerful DC motor and high-quality rechargeable batteries enables a powerful and long-term working with the machine, if it is maintained correctly.

Various slot systems can be cleaned of faeces in a very short time by the double 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 machine.

Please note that only the handling of the **WS 800** is explained.

NOTICE

The machine must be stored in a dry place and protected from moisture and water! When cleaning the machine, do not use high pressure or running water, as the electronics inside can be damaged.

Use a hand brush and / or a damp cloth for cleaning. The pushing shield can be cleaned with water as required after dismantling.

Before use

The WS 800 must be checked for possible damage or wear before any use. Only a flawless machine may be used.

Please only use original spare parts or parts approved by the manufacturer for repairs and replacements.

The operator must be at least 18 years old and is responsible for people and animals in the work area.

Large foreign bodies must be removed from the surfaces to be cleaned before starting work. These can lead to uncontrolled movements of the machine.

NOTICE

The key must be removed after each use, also prevent the machine from being used by unauthorized persons! Connect the machine with the supplied charger after finishing the work process. This will prevent a deep discharge and the machine is ready for use at any time.

Familiarize yourself with the handling of the device. 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 works at the machine
- ✓ Abnormal noises or operating behavior of the machine
- ✓ When adjusting the machine

Only remove the attached scraper for cleaning. **Never use the machine without the scraper!**

The WS 800 is only used to maintain crevices in dairy farms and can therefore only be used on flat surfaces! While working in the stable, watch out for possible steps by the animals!

General technical data of the WS 800 Vario

DC motor:

- 24V, 800 watts

Battery/Accu:

- 2x12V (24V), 44Ah

Working width:

- approx. 800 mm

Basic machine:

- Total weight approx. 130 kg (incl. scraper)
- 2 drive wheels 16x6,5-8
- Charger 24V 4Ah
- Completely galvanized
- Driving direction choosable via switch
- Adjustable handle height

Attaching scraper ASS 800:

- 2 flexible rubber strips lying one behind the other
- V-shaped front
- Easy to lift by hand

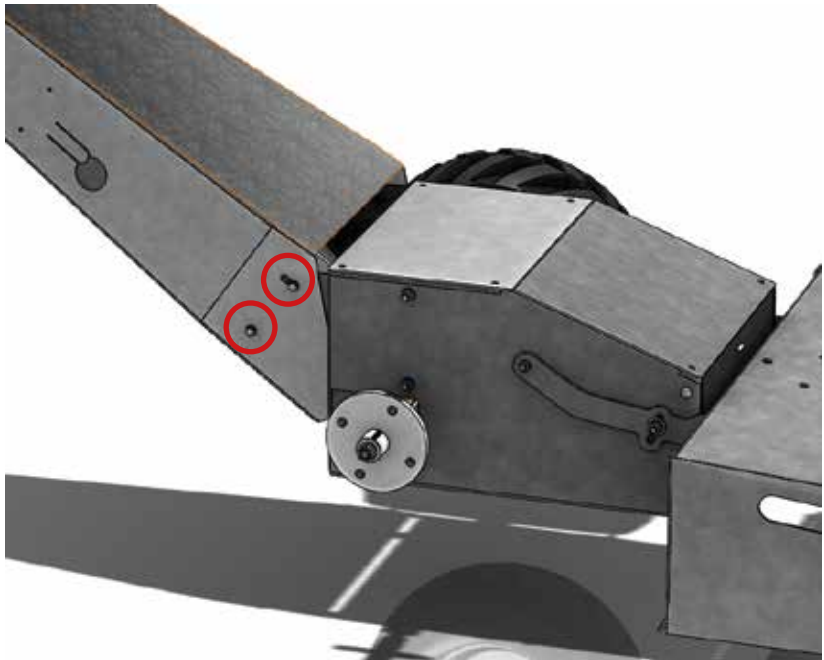
7 Installation

First of all, check your WS 800 for completeness!

7.1 Assembly of push bar

The WS 800 is shipped disassembled for an easier transport. You will find the basic machine, as well as 2 tires and the push bar.

First you need to assemble the push bar with the included screws at the marked positions (Fig. 1). The upper screw is used for fixing as well as for adjusting the tilt of the push bar.



(Fig. 1 - Assembly of push bar)

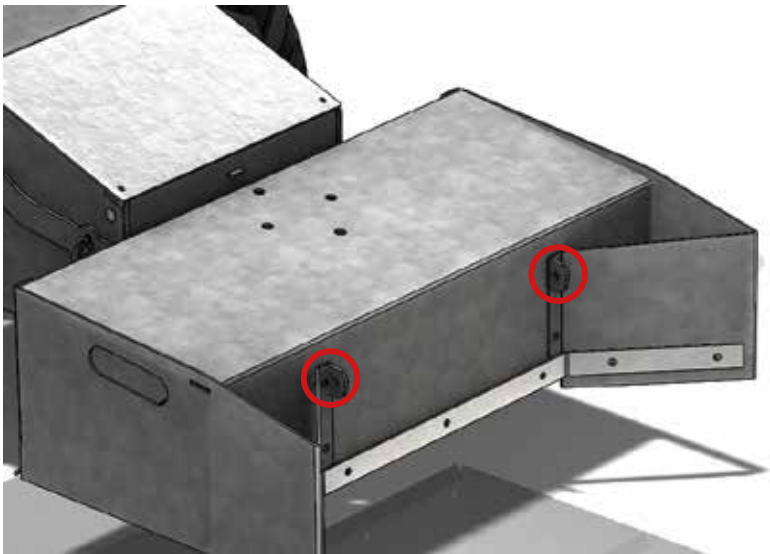
Be careful to not put tension on the harness during assembly! After the push bar is fixed the wheels can be installed. For assembly use the included screws and the spherical discs.

7 Installation

7.2 Disassembly / assembly of the scraper

The preassembled scraper of the WS 800 can be attached or removed in two simple steps.

First pull out both split pins that secure the scraper to the forks (Fig. 2). Now the scraper can be pulled on or of the forks. The WS800 has to be secured against rolling or tipping over during the diss-/assembly. It's best to perform these tasks with the help of an additional person. Don't forget to put the pins back in after you are done with the diss-/assembly to not lose them.



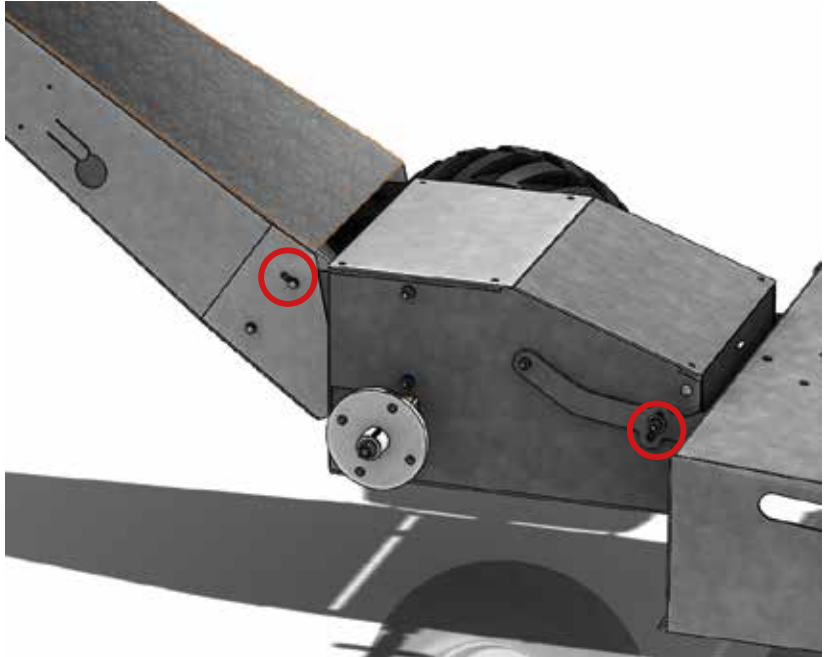
(Fig. 2 - Disassembly and assembly of scraper)

NOTICE

While working on the device, it must be switched off and be secured against being switched on again!

7.3 Adjustment of handle height

There are two setting options to adjust the handle height to the height of the user. On the one hand, the inclination of the push bar can be adjusted using two adjusting screws (see Figure 3). The other adjustment is on the front of the WS 800. Here two hexagon nuts can be loosened and the inclination of the scraper can be changed.



(Fig. 3 - Adjustment of handle height)

7.4 Charging the WS 800 Vario

A charger is integrated in the push bar of the WS 800. This is preset by production and does not require any further intervention.

After finishing the work, the WS 800 must be parked near a power supply. Switch off the WS and prevent it from being switching on by unauthorized persons.

Next, the cable wound on the stile can be plugged into a socket to be connected. The charger has a voltage control and switches off automatically when the batteries are fully charged.

A fully functional charger cannot be damaged by charging for too long.

NOTICE

The battery **must be properly and permanently** re-connected to the charging station **after each use** to avoid deep discharge of the battery. The overcharge protection in the charger prevents the batteries from being overcharged. Only use the charger supplied!

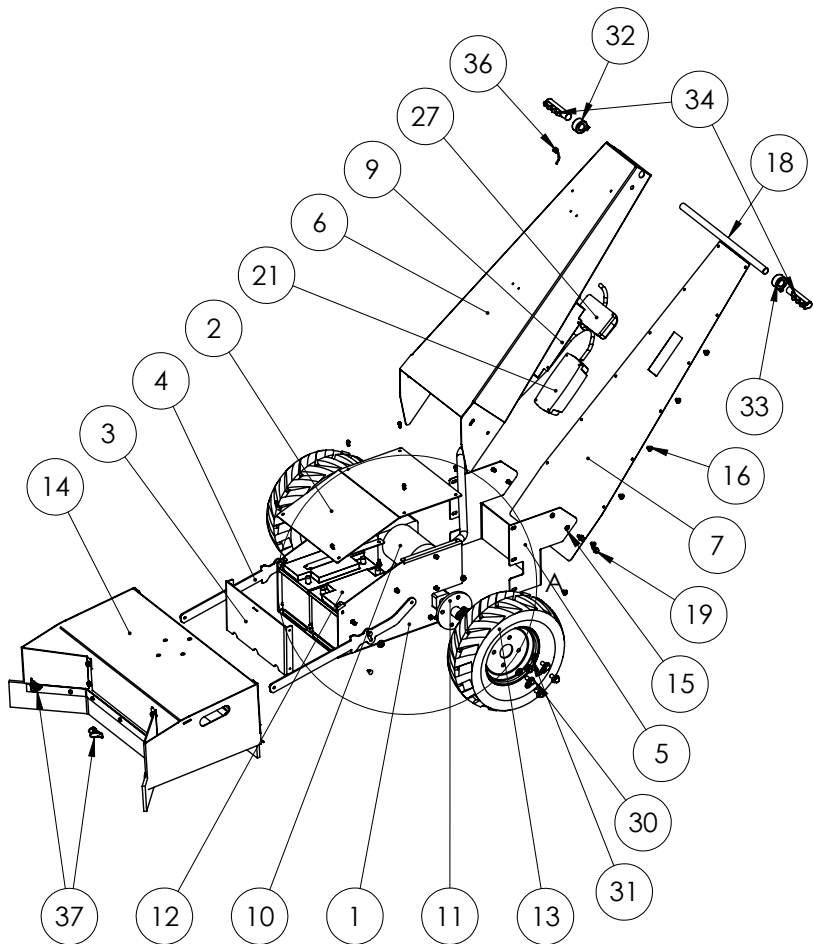
8 Troubleshooting

The following table lists common malfunctions and their remedies.

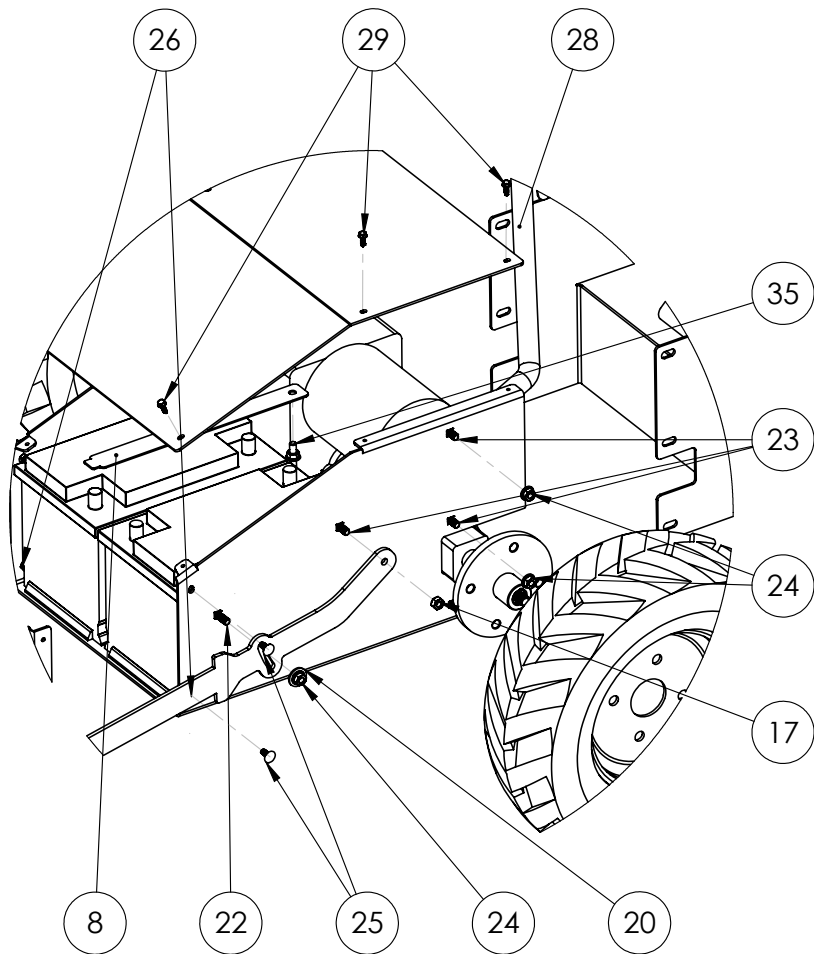
Fault	Cause	Remedy
Engine not running	<ul style="list-style-type: none">• Battery empty• Fuse is blown• Battery terminal without contact• Oxidation on the terminal	<ul style="list-style-type: none">• Charge battery• Change fuse• Tighten the terminal screws• Clean terminal apply terminal grease
Battery is not charging	<ul style="list-style-type: none">• Oxidation on the power plug or charger• Overcharge protection triggered• Fuse defect• Charger not set to 24V	<ul style="list-style-type: none">• Clean the contacts• Turn on the overcharge protection• Change fuse• Set charger to 24V
Unusual noises (rattling etc.)	<ul style="list-style-type: none">• Lose screws	<ul style="list-style-type: none">• Control screws and tighten all lose screws
Scraper is not cleaning correctly	<ul style="list-style-type: none">• Wrong setting• Worn rubber lip	<ul style="list-style-type: none">• Adjust the tilt• Renew the rubber lip

If you have a defect that is not listed in the table, please contact your dealer.

9 Spare parts list

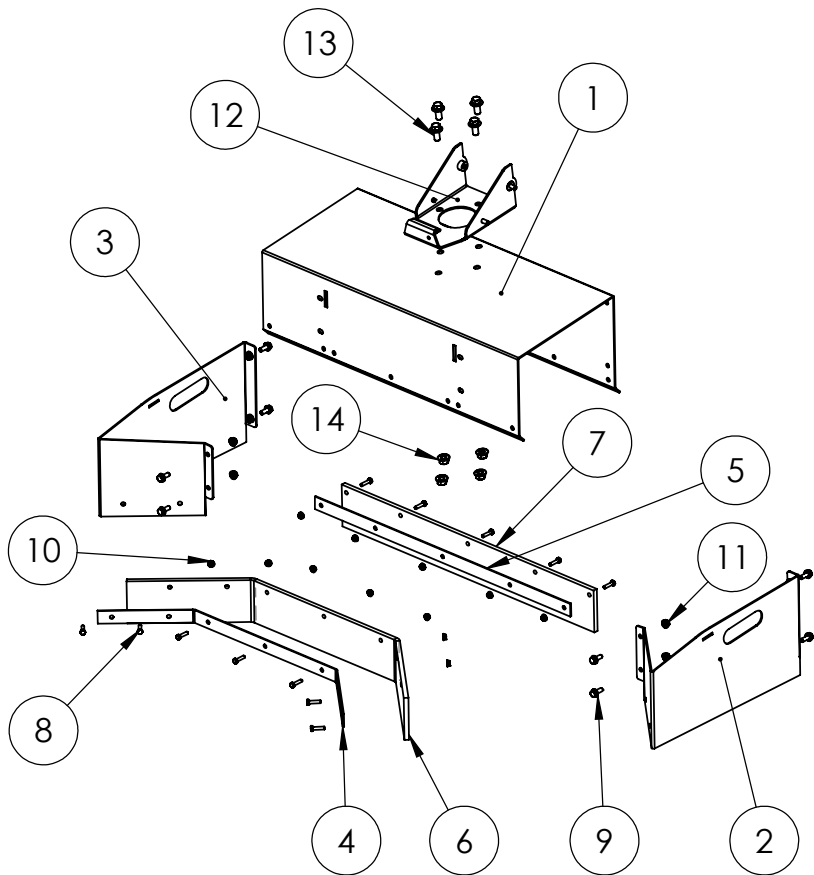


DETAIL A



9 Spare parts list

Pos.	Artikel	Bezeichnung	part name	Menge
1	LA-00-01057	Grundblech	base frame	1
2	LA-00-01058	Deckel	cover	1
3	LA-00-01059	Frontblende	front panel	1
4	LA-00-01060	Zinke Schieber	pusher fork	2
5	LA-00-01061	Rückwand	backplate	1
6	LA-00-01062	Holm	handle bar	1
7	LA-00-01063	Holm Unterseite	handle bar cover	1
8	LA-00-01064	Batteriehalter	batterie holder	1
9	LA-00-01079	Montageplatte Ladegerät	mounting plate charger	1
10	KT-00-00333 / 332	Getriebe CMA800 / Motor CMA 800	gear CMA 800 / engine CMA 800	1
11	SB-00-00021	Radnabe CM2	wheel hub CM2	2
12	KS-00-00022	Batterie naß, 12V, 60 Ah	batterie 12V 60Ah	2
13	RE-00-00017/18	Antriebsrad rechts / links	drive wheel right / left	2
14	100908	Anbauspaltenschieber ASS800	slatted floor pusher	1
15	KT-00-00697	Blindnietmutter M8 sechskant	hexagon blind rivet nut M8	5
16	KT-00-00499	Schraubniet A=7 B=3-9mm schwarz	screw rivet A=7 B=3-9mm	12
17	DIN-934-M8	Sechskantmutter M8	hexagon nut M8	2
18	DR-00-00027	Griffrohr 22x2	handhold 22x2	1
19	DIN-6921-M8x16	Sechskantschraube mit Flansch M8x16	hexagon flange screw M8x16	4
20	DIN-9021-8,4	Kofflügelscheibe 8.4	fender washer 8,4	2
21	KS-00-00019	Ladegerät CMA WS800	charger CMA / WS 800	1
22	DIN-603-M8x25	Flachrundschrabe M8x25	mushroom head srew M8x25	2
23	DIN-603-M8x20	Flachrundschrabe M8x20	mushroom head screw M8x20	8
24	DIN-SZ-M8	Sperrzahnmutter M8	double security nut M8	8
25	DIN-603-M6x16	Flachrundschrabe M6x16	mushroom head screw M6x16	4
26	DIN-934-M6	Sechskantmutter M6	hexagon nut M6	4
27	KT-00-01018	Motorsteuerung	motor control	1
28	KT-00-01020	Kabelbaum	cable harness	1
29	DIN-7504-4,8x19	Sechskantbohrschraube 4,8x19	self tapping screw 4,8x19	6
30	DIN-6921-M12x20	DIN 6921 - M12 x 25 x 25-N	hexagon flange screw M12x20	8
31	DIN-6319-13x24x4,6	Kugelscheibe Form C d=13	spherical washer d=13mm	8
32	KT-00-01017	Daumengas	thumb throttle	1
33	KT-00-01021	Rückwärtsschalter	reverse switch	1
34	KT-00-00193	Muldengriff schwarz	soft grip PVC	2
35	DR-00-00217	Gewindestange M8	threaded rod M8	1
36	KT-00-01019	Zündschloss AMP (CMA,WS)	key switch (CMA,WS)	1
37	KT-00-00171	Rohrklappstecker 4,5x32	hinged pin 4,5x32	2



Pos.-Nr.	Artikel	Benennung	part name	Menge/ quantity
1	LA-00-00169	Grundblech	ground plate	1
2	LA-00-00170	Seitendeckel links	side plate left	1
3	LA-00-00435	Seitendeckel rechts	side plate right	1
4	LA-00-00171	Leiste vorne	ledge front	1
5	LA-00-00172	Leiste hinten	ledge back	1
6	KT-00-00226	Gummileiste vorne	rubber ledge front	1
7	KT-00-00595	Gummileiste hinten	rubber ledge back	1
8	DIN-933-M6x25	Sechskantschraube M6x25	hexagon head screw M6x25	12
9	DIN-SZ-M8x20	Sperrzahnschraube M8x20	locking screw M8x20	8
10	DIN-SZ-M6	Sperrzahnmutter M6	locking nut M6	12
11	DIN-SZ-M8	Sperrzahnmutter M8	locking nut M8	8
12	LA-00-00296	Anbauschuh	quick connector	1
13	DIN-SZ-M12x25	Sperrzahnschraube M12x25	locking srew M12x25	4
14	DIN-SZ-M12	Sperrzahnmutter M12	locking nut M12	4

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

1. 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.
2. 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.

10 Warranty policy

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 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.

10 Gewährleistungsrichtlinie

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

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