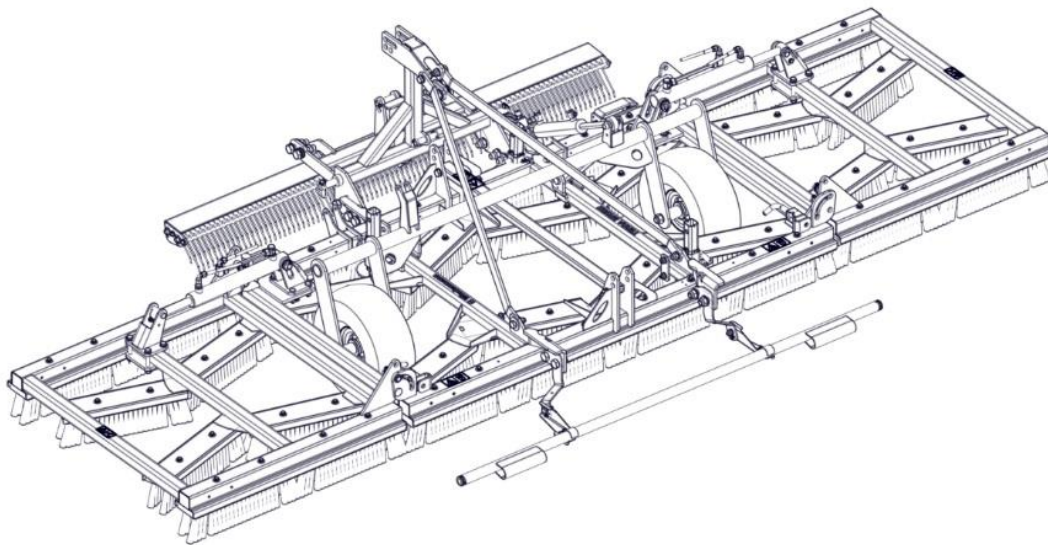


Translation of original Operating Instruction

EN

Sand brush

Terra Brush





Document number: **508 99 01.004**

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 	IMPORTANT!
	<ul style="list-style-type: none">➤ Read these operating instructions thoroughly before initial commissioning and observe the safety information!➤ Keep these operating instructions in a safe place!

1. Manufacturer



Wiedemann GmbH
Am Bahnhof
89192 Rammingen
DEUTSCHLAND

Tel. +49 7345 953-0
Fax +49 7345 953-233
info@wiedemann.de
www.wiedemann.de

1.1 Information for inquiries and orders

Year	
Machine no.	
Typ	Terra Brush

1.2 Contact details of your dealer

--

1.3 Preface

These operating instructions are an integral part of this delivery. They must always be kept in the vicinity of the machine.

In the event that the machine is sold on, the operating instructions must be passed on to the purchaser.

Read these operating instructions carefully to learn how to operate and service your machine correctly. Failure to do could result in personal injury or equipment damage. These operating instructions and safety signs on your machine may also be available in other languages (see your dealer to order).

Please be aware that we cannot assume liability for damage or downtimes which occur as the result of failure to observe the operating instructions.

This machine is designed exclusively for industrial use and regular operation in agriculture and forestry, and for the maintenance of grassy areas and parks. See Section 3.3 "Intended Use".

The machine described in these operating instructions corresponds to the state of the art of the time when these operating instructions were created.

Before delivery, your dealer carried out an inspection to guarantee optimum functioning of the machine.

In the interest of further developing the machine, we reserve the right to make those changes to individual components and accessories, which shall be made for your benefit while maintaining the essential functions of the machine and shall be deemed expedient in terms of increasing the performance and safety of the machine.

Measurements in these operating instructions are given in metric units. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

Write product identification numbers (P.I.N.) in the "Technical specifications" section. Record all the numbers accurately. These numbers help to trace the machine should it be stolen. Your dealer also needs these numbers when you order spare parts. File the identification numbers in a secure place off the machine.

Before initial operation, please take into consideration and clarify the following:

- "The maintenance requirement for synthetic turf fields differs depending on the layout and the used synthetic turf. We recommend that you consult with your groundsman or synthetic turf manufacturer to clarify the suitability of maintenance machines before usage."
- The cleaning and maintenance activities should conform to the written maintenance suggested guidelines provided by the synthetic installation builder.

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2. To this document

2.1 Validity

This document applies to machines of the type:

Terra Brush

All information, figures and technical specifications were the latest available at the time this document was published. Design specifications are subject to change at any time without prior notification.

2.2 Reorder

Should this document have become wholly or partly unusable, you can use the document number on the cover sheet to request a replacement.

The document can also be downloaded via the Wiedemann homepage.

www.wiedemann.com

2.3 Applicable documents

Alongside the machine operating instructions, the following documents are also supplied and should also be observed:

- Operating manual tractor

2.4 Target group of the document

This document is aimed at machine operators that fulfil the minimum personnel qualification requirements, see Section 3.6.1 "Workstations at the machine".

2.5 How to use this document

2.5.1 Directories and references

Table of contents / Headers and footers

The table of contents, as well as the headers and footers in this document provide fast orientation in the sections.

Cross-references

The text contains cross references to other documents or page references to a different section in the same document.

2.5.2 Directions

The designations "right" and "left" are applicable to the trailed device moving in forward direction.

2.5.3 Term machine

The term "machine" is also used to refer to the "Sand brush" in the remainder of this document.

2.5.4 Figures

The figures in this document do not always represent the exact machine type. The information with reference to the figures always corresponds to the machine type in this document.

2.5.5 Scope of the document

Alongside the standard equipment, optional equipment is also described in this document. Your specific machine may differ from this.

2.5.6 Means of presentation

Symbols in Text

The following means (symbols) are used to present the text with a clear structure.

- This arrow represents an **action step**. Multiple arrows in succession represent a sequence of actions that is to be performed one step at a time.
- ✓ This symbol represents a **prerequisite** that must be met in order to perform an action step or sequence of actions.
- ⇒ This arrow represents the **interim result** of an action step.
 - ☑ The tick represents the result of an action step or sequence of actions.
- The dot represents a list. If the dot is indented, it represents a further level of the list.

Symbols in pictures

The following symbols can be used in figures:

Symbol	Explanation
①	Reference sign for component

Symbol	Explanation
A	Position of a component

Position numbers in pictures

Digits in round brackets refer to item numbers in figures.

Warnings

Warnings regarding hazards are offset from the rest of the text as warning signs and also include both a danger symbol and signal words.

To avoid personal injury and material damage, it is important to observe the warning signs and their measures!







Explanation of the danger sign

This is the danger symbol that warns about a potential risk of injury and material damage.

Observe all notes with the danger symbol!



Explanation of the signal words

	! DANGER! <ul style="list-style-type: none">➤ The signal word DANGER warns of a dangerous situation that will lead to serious injuries or even death if the warning message is not observed.
	! WARNING! <ul style="list-style-type: none">➤ The signal word WARNING warns of a dangerous situation that could lead to serious injuries or even death if the warning message is not observed.
	! CAUTION! <ul style="list-style-type: none">➤ The signal word CAUTION warns of a dangerous situation that could lead to minor or moderate injuries if the warning message is not observed.
	! ATTENTION! <ul style="list-style-type: none">➤ The signal word ATTENTION warns of a dangerous situation that could lead to property and material damage if the warning message is not observed.
	NOTE! <ul style="list-style-type: none">➤ The signal word NOTE in connection with a mandatory sign specifies corresponding protective measures that prevent health risks.
	INFO! <ul style="list-style-type: none">➤ The signal word INFO in connection with the symbol provides information and tips on how to use the machine.

3 Safety notes

3.1 Obligation of the operator

The operator must ensure that only those persons work with the machine that

- have knowledge of the accident prevention regulations associated with health and safety at work.
- have received instruction in how to work with/at the machine.
- have read and understood the operating instructions.

The operator must ensure that

- all safety signs on the machine are clearly legible.
- damaged safety signs are replaced with new ones.

3.2 Obligation of the operator

All persons commissioned to perform work with/at the machine are committed to

- observing the fundamental regulations regarding workplace safety and accident prevention.
- reading and observing the information in the section entitled "Safety information" in these operating instructions.
- reading the information provided in the section entitled "Warning signs" in these operating instructions and observing the safety instructions associated with the warning signs when operating the machine.
- familiarising themselves with the machine.
- reading the sections of the operating instructions that are important for performing the work assigned to them.

If the operator determines that a safety device is not in perfect working order, this defect must be rectified immediately or the issue reported to the superior (operator).

3.3 Intended Use

This machine is designed exclusively for industrial use and regular operation in agriculture and forestry, and for the maintenance of grassy areas and parks.

This includes the following tasks:

- brushing up grassy areas
- spreading sand on grassy areas
- spreading sand and granulate on artificial turf

Any use that goes beyond this is NOT considered "intended use", and the manufacturer will not be liable for any damage resulting from this. All risks in this regard are borne exclusively by the user. Intended use also includes compliance with the operating, maintenance and servicing conditions prescribed by the manufacturer.

3.4 Predictable misuse

The attached device must not be used for transporting persons or objects.

This machine may only be used, maintained and serviced by persons that are familiar with this work and have been instructed about the hazards/dangers. The relevant accident prevention regulations, as well as other generally recognised rules of safety, occupational healthcare and road traffic law are all to be observed. Any and all unauthorized changes made to this machine exclude all liability on the part of the manufacturer for damage resulting from this.

3.5 Service life of the machine

- The useful life of this machine depends on correct operation and maintenance, as well as the deployment and operating conditions.
- Continuous operational readiness and a long useful life of the machine can be achieved by following the instructions and notes in these operating instructions.
- Once the season is over, the machine should be checked thoroughly for wear and any other damage.
- Damaged and worn components should be replaced before using the machine again.

3.6 General safety instructions

- Observe the generally applicable safety and accident prevention regulations as well as the notes in these operating instructions!
- Familiarize yourself with all equipment and operating elements and their functions before starting work. Ensure that all protective equipment has been properly installed.
- In the working area, the user is responsible for the safety of other persons.
- Always observe local road traffic regulations when using public roads.
- Check the immediate surroundings before driving (children!).
- Keep all persons clear of the danger zone of the machine!
- The driving and operating properties of the tractor may be influenced by the attachment of the machine! Always adapt your driving style to match the terrain and ground conditions. Special care should be taken when working and turning on a slope.
- Switch the machine and the motor of the tractor off and remove the ignition key before carrying out maintenance.
- Use your personal protective equipment (PPE) for work, such as:
 - Work gloves;
 - Safety shoes;
 - Breathing protection;
 - Ear protectors;
 - Face and eye protection, etc.
- All safety devices must be assembled before initial operation of the machine.
- Always keep the machine in a good condition. Improper changes to the machine impair its function, operational reliability and service life

3.6.1 Personnel qualification of the operating personnel

Improper handling can lead to serious personal injuries or even death. To prevent accidents, all persons working with the machine must meet the following minimum requirements:

- They must be physically capable of controlling the machine.
- They must be able to perform the work with the machine described in these operating instructions safely.
- They must understand how the machine works within the scope of their duties and be able to both recognise and avoid the hazards/dangers.
- They must have read and understood the operating instructions.
- They must be familiar with operating vehicles.
- When driving the machine on roads, they must have sufficient knowledge of the rules of road traffic and possess the stipulated driving licence.

3.6.2 Personnel qualification of the specialist personnel

If the work to be performed (conversion, retrofitting, repairs, etc.) is carried out improperly on the machine, persons can potentially suffer serious injuries or even death. To prevent accidents, all persons performing work in line with these instructions must meet the following minimum requirements:

- They must be a qualified specialist with corresponding training.
- They must be capable of completing the work to be performed within the scope of these instructions correctly and safely.
- They must understand how to perform the requisite work, how the machine itself works and be able to both recognise and avoid the hazards/dangers.
- They must have read and understood the operating instructions.

3.6.3 Children in danger

Children cannot properly assess dangers and can behave unpredictably. Children therefore represent a particular risk.

- Keep children away from the machine.
- Keep children away from operating materials.
- Particularly prior to starting up the machine and activating machine movements, first ensure that there are no children in the danger area.

3.6.4 Coupling up the machine

Failure to couple the tractor and machine correctly leads to hazards that can cause serious accidents.

- Observe all relevant information in the various operating instructions when coupling the machine. These include:
 - The tractor operating instructions
 - The machine operating instructions, see Section 7 “Attaching to a tractor”.
- Be aware of the altered driving characteristics of the combined unit.

3.6.5 Structural changes to the machine

Unauthorised structural changes and extensions can impair the functionality and operational reliability of the machine. This leads to an increased risk of injury.

Structural changes and extensions are not permitted!

3.6.6 Additional equipment and spare parts

Additional equipment and spare parts that do not meet the requirements of the manufacturer can impair the operational reliability of the machine and cause accidents.

- To ensure operational reliability, always use original or standard parts that meet the requirements of the manufacturer.

3.6.7 Workstations at the machine

Anyone "riding along" on the machine can suffer severe injuries or fall off and be run over. Objects flying out of the machine can hit and potentially injure any persons riding along on the machine.

- Never allow anyone to ride along on the machine.

3.6.8 Operational reliability, perfect technical condition

Operation only after proper commissioning

Without proper commissioning in line with these operating instructions, the operational reliability of the machine is not guaranteed. This can then lead to a risk of serious or even fatal injuries.

- Do not use the machine until it has been properly commissioned.
See Section 8 „Before initial operation“.

Technically perfect condition of the machine

Improper maintenance and settings can influence the operational reliability of the machine and cause accidents. This can then lead to a risk of serious or even fatal injuries.

- Perform all maintenance and setting/adjustment work in line with the "Maintenance" and "Settings" sections.
- Prior to performing any maintenance or setting/adjustment work, shut down and secure the machine, see Section 3.7.1 "Shutting down and securing the machine".

Dangers due to damage to the machine

Damage to the machine can impair its operational reliability and cause accidents. This can then lead to a risk of serious or even fatal injuries. The following parts of the machine are particularly important with regards to safety:

- Guards
- Coupling devices
- Hydraulics
- Tyres

If you are in any doubt regarding the operational condition of the machine, for example if it suddenly starts to behave differently unexpectedly or if you observe visible damage / fluids escaping:

- Shut down and secure the machine, see Section 3.7.1 "Shutting down and securing the machine".
- Eliminate any potential causes of the damage immediately, such as heavy soiling or loose screws.
- If you encounter damage that affects operational reliability and which you cannot rectify yourself by following the information/instructions in the operating instructions, please have the equipment repaired by a qualified specialist workshop.

Technical limits

The machine can be damaged if its technical limits are not observed. This can then lead to a risk of serious or even fatal injuries. Observing the following limits is particularly important in terms of safety:

- Maximum permitted hydraulic operating pressure
 - Observe the limits, see Section 4.3 „Technical specifications“.

3.6.9 Danger areas

When the machine is switched on, a danger area can result all around the machine.

Adequate safety clearance must be maintained to prevent any access to this danger area.

If the safety clearance is not observed, there is a risk of severe or even fatal injuries.

- Make sure there are no persons in the danger area before switching on drives and the engine.
- Should any persons enter the area reserved as safety clearance, shut down the drives immediately
- Stop the machine if currently manoeuvring.
- Prior to performing in the machine's danger area, shut down and secure the machine, see Section 3.7.1 „Shutting down and securing the machine“. This also applies to quick checks.
- Observe the information provided in all relevant operating instructions:
 - Operating instructions Engine
 - The machine operating instructions, see Section 7 "Attaching to a tractor"

Danger zone between tractor and machine

Anyone remaining between the tractor and the machine can potentially suffer serious or even fatal injuries due to machine movements, the tractor rolling away or carelessness:

- Prior to performing any work between the tractor and machine, shut down and secure the machine, see Section 3.7.1 "Shutting down and securing the machine". This also applies to quick checks.

Protective devices keep functioning

There is an increased risk of injury if any guards protecting moving machine parts are missing or damaged!

- Replace damaged guards.
- Prior to removing guards, shut down the engine and wait until all moving machine parts have come to a complete standstill.
- Keep hands, feet and garments well away from moving parts.
- Before starting up the machine, re-attach any guards covering machine parts that were removed and then move them into their guard position.
- If you are in any doubt as to whether all guards have been fitted properly and are working as they should, commission a specialist workshop to perform a check.

3.6.10 Personal protective equipment

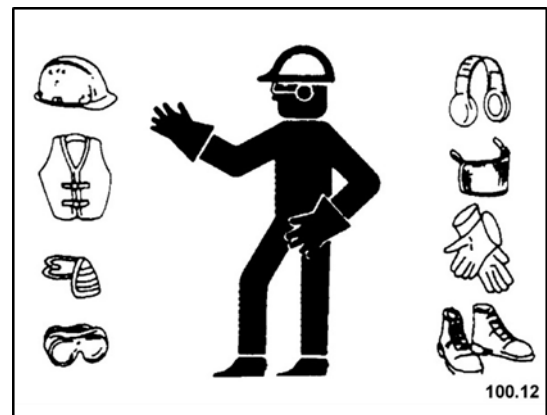
Wearing personal protective equipment is an important safety measure. Missing or unsuitable protective equipment increases the risk of health issues and personal injuries.

Examples of personal protective equipment include the following:

- Suitable protective gloves
 - Safety shoes
 - Tight-fitting protective clothing
 - Hearing protection
 - Goggles
- Specify and provide personal protective equipment for the specific task at hand.
 - Only use personal protective equipment that is in proper condition and offers effective protection.
 - Adjust personal protective equipment to the person performing the work. (e.g. size)
 - Remove any unsuitable items of clothing and jewellery.

Secure operation of the machine requires the driver's full attention.

- Never wear headphones to listen to the radio or music.

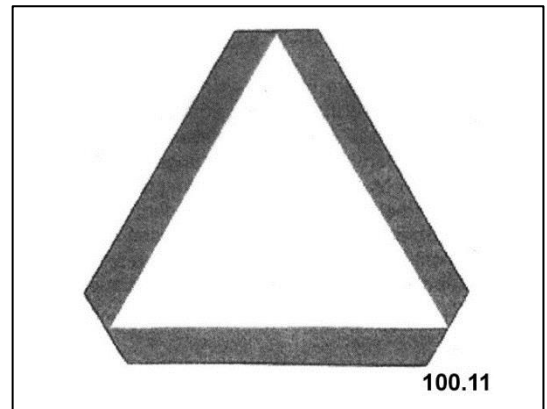


3.6.11 Road safety

Dangers when driving on the road

If the machine exceeds the maximum dimensions and weights stipulated by national legislation and is not properly illuminated as per the regulations, you will put other road users at risk when driving on public roads.

- Always observe local road traffic regulations when using public roads.
- Prior to any road travel, ensure that the maximum permitted dimensions, as well as the weight, axle, support and trailer loads are not exceeded. Observe all guidelines pursuant to national law when driving on public roads.
- Prior to any road travel, switch on the lighting and ensure that it is working properly (in line with the regulations).
- Prior to any road travel, close all shut-off valves of the machine's hydraulic system between the tractor and machine.
- Prior to any road travel, move the tractor's control units to their neutral position and lock them in place.



3.6.12 Shutting down the machine securely

A machine that has been improperly shut down can start to move in an uncontrolled manner. This can then lead to a risk of serious or even fatal injuries.

- Always shut down and park the machine on stable, horizontal and level ground.
- Secure the machine with a support rod.
- Prevent the machine from rolling away by placing a chock under the wheel.
- Prior to performing any servicing, maintenance or cleaning work, first make sure that the machine is on secure ground and is stable.

Unattended parking of the machine

An inadequately secured and unattended machine can present a danger to persons, particularly to children.

- Before parking, shut down and secure the machine, see Section 3.7.1 "Shutting down and securing the machine".

3.6.13 Operating materials

Environmental protection and disposal

Operating materials such as hydraulic oil or gearbox oil can have harmful consequences for human health and the environment.

- Do not allow the operating materials to escape into the environment.
- Pour the operating materials into a liquid-tight container specially labelled for this purpose and dispose of them in line with official regulations.
- Soak up expired operating materials using absorbent material, pour them into a liquid-tight container specially labelled for this purpose and dispose of them in line with official regulations.

3.6.14 Potential hazards at the machine

Noise can lead to health problems

The noise generated by the machine while in operation can lead to health conditions such as hearing impairment, deafness or tinnitus. When using the machine at high speed, the noise level is also increased.

- Before commissioning the machine, first assess the danger posed by noise. Specify and use suitable hearing protection based on the environmental conditions, working times and work/operating conditions of the machine.
- Specify a regulation for the use of hearing protection and for the duration of work.



Liquids under high pressure

The following liquids are highly pressurised:

- Hydraulic oil

High-pressure fluids which leak under pressure can penetrate the skin causing serious injury.

- If you suspect that a pressure system may be damaged, shut down and secure the machine immediately and then contact a qualified specialist workshop.
- Never attempt to trace the source of leaks with your bare hands. Even just a pin hole can cause serious personal injuries.
- Use suitable materials when searching for leaks. (for example, a piece of cardboard)
- Keep your body and face well away from leaks.
- If a fluid penetrates the skin, it must be removed immediately by a doctor who is familiar with such injuries. Otherwise serious infections may result.
- Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.



- Prior to recommissioning, check the leak-tightness of the hydraulic system!

Avoid heating near pressurized fluid lines

- Do not cause heating near pressurized fluid lines by welding, soldering or using a torch.
 - Pressurized fluid lines can be cut through accidentally if heat develops outside the immediate area of flame. In addition, heating near pressurized fluid lines can cause highly flammable mists to develop. If these mists ignite they can cause serious burns.



3.6.15 Hazards when performing certain tasks at the machine

Work only on stopped machine

If the machine has not been shut down and secured, parts can move unintentionally or the machine can begin to move.

Maintenance and repair work

Improper servicing and repair work jeopardise operational reliability. This can then lead to a risk of serious or even fatal injuries.

- Only perform the work described in these operating instructions.
- Prior to performing any work, shut down and secure the machine, see Section 3.7.1 "Shutting down and securing the machine".
- Have all other servicing and repair work performed exclusively by a qualified specialist workshop.

Raised machine or machine parts

The raised machine or raised machine parts can descend or tip over unintentionally. This can then lead to a risk of serious or even fatal injuries.

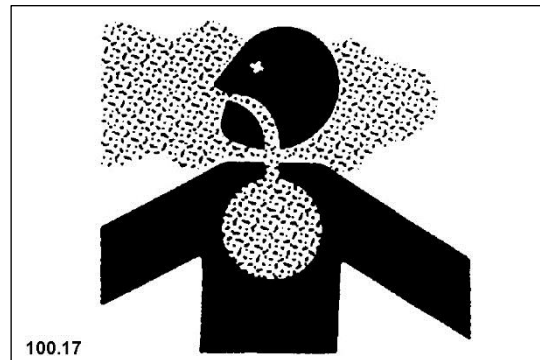
- Do not stand or remain below the raised machine or raised machine parts that do not have proper supports, see Section 3.7.1 "Shutting down and securing the machine".
- Prior to performing any work below a raised machine or raised machine parts, secure the respective machine or machine parts and prevent them from descending using a rigid safety prop or hydraulic locking device and suitable supports.

Hazard due to welding work

Welding should only be carried out by persons with a relevant qualifying certificate i.a.w. EN287.



Improper welding work jeopardises the operational reliability of the machine. This can then lead to a risk of serious or even fatal injuries.

- Never weld any of the following parts:
 - Gearboxes
 - Components of the hydraulic system
 - Chassis or load bearing assemblies
- Prior to performing welding work on the machine, shut down the machine securely.
- Attach the earth of the welding device near to the welding point.
- Avoid generation of toxic vapour and dust. Hazardous fumes can be produced when paint is heated by welding, soldering, or using a torch.
- Do all work outside or in a well ventilated area.
- Dispose of paint and solvent properly.
- Remove paint before welding or heating:
 - If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
 - If you use solvent or paint stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from the area. Allow fumes to disperse at least 15 minutes before welding or heating.



3.7 Safety routines



3.7.1 Shutting down and securing the machine

	 WARNING!
	Risk of injury due to movements of the machine or machine parts!
	➤ Shut down and secure the machine before leaving the operator's seat!

To shut down and secure the machine:

- Shut down the drive and wait until any parts with overrun have come to a complete stop.
- Shut down the machine, remove the ignition key and take it with you.
- Secure the machine to prevent it from rolling away. (parking brake).

3.7.2 Securing the raised machine and machine parts to prevent them from descending

	 WARNING!
	Risk of injury due to the machine or machine parts descending!
	➤ Prior to performing any work below a raised machine or raised machine parts, secure the respective machine or machine parts and prevent them from descending using a rigid safety prop or hydraulic locking device (e.g. stop valve) and suitable supports.

To securely support the machine or machine parts:

- Only use suitable and adequately dimensioned materials as supports.
- Car jacks are not suitable for supporting the machine or machine parts and therefore must not be used for this purpose.

3.8 Safety mark on the machine

Safety stickers on the machine offer warnings against hazards in danger areas and are an important component of the machine's safety equipment. Missing safety stickers increase the risk of serious or even fatal personal injuries.

- Clean soiled safety stickers.
- Check all safety stickers after all cleaning work to ensure that they are still complete and easily legible.
- Immediately replace any missing, damaged or illegible safety stickers. (replacement safety stickers are available from your dealer)

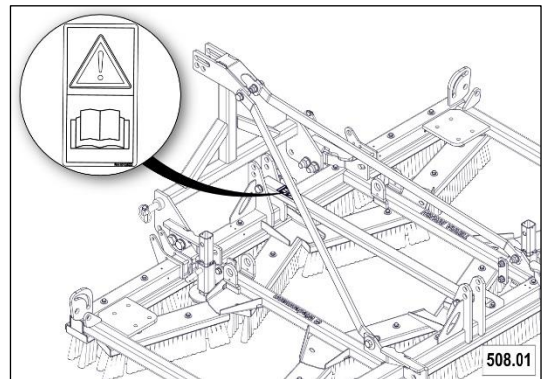


3.8.1 Position and meaning of the safety stickers



Operating Instructions

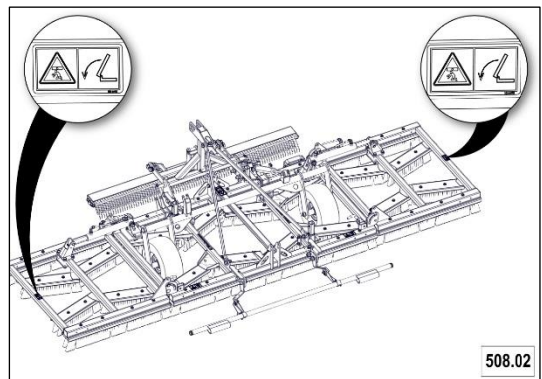
These operating instructions contain all important information necessary for safe machine operation.

- Carefully observe all safety instructions to avoid accidents.
- Read operating instructions!



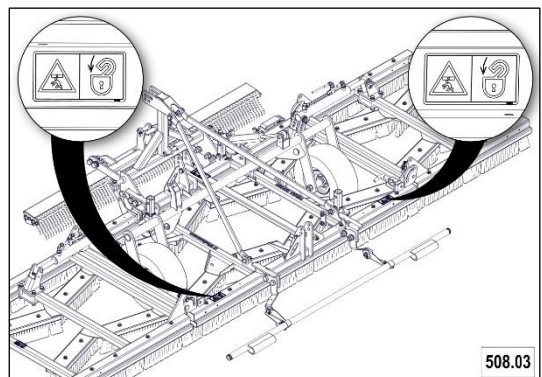
Extension arm

	 WARNING!
	Danger of injury if the extension arm falls!
	<ul style="list-style-type: none">➤ Proceed with care when raising or lowering the extension arm!





Transport

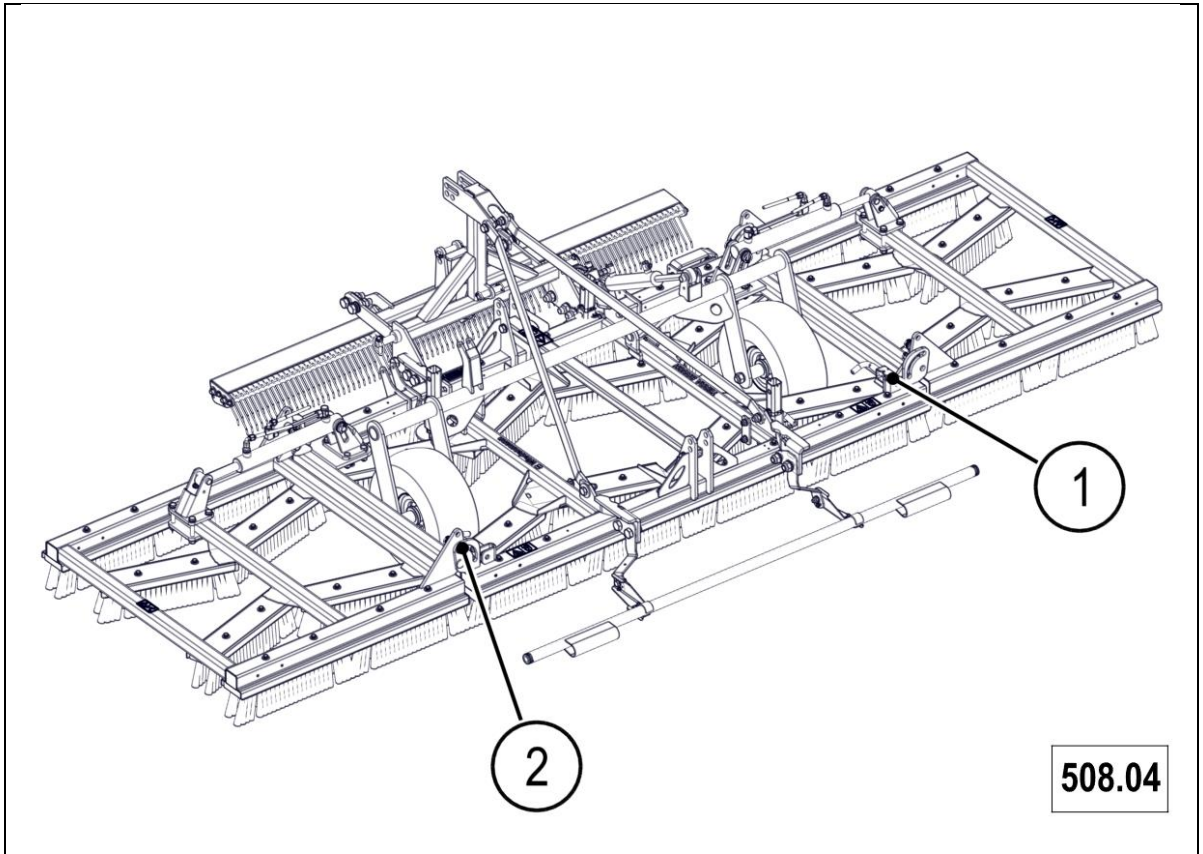
- Prior to transportation, both extension arms must be folded up and locked!



3.8.2 Safety devices

	 DANGER!
	<p>Risk of injury due to missing safety devices!</p> <p>➤ Never operate the machine without safety devices!</p>

Position of safety devices



508.04

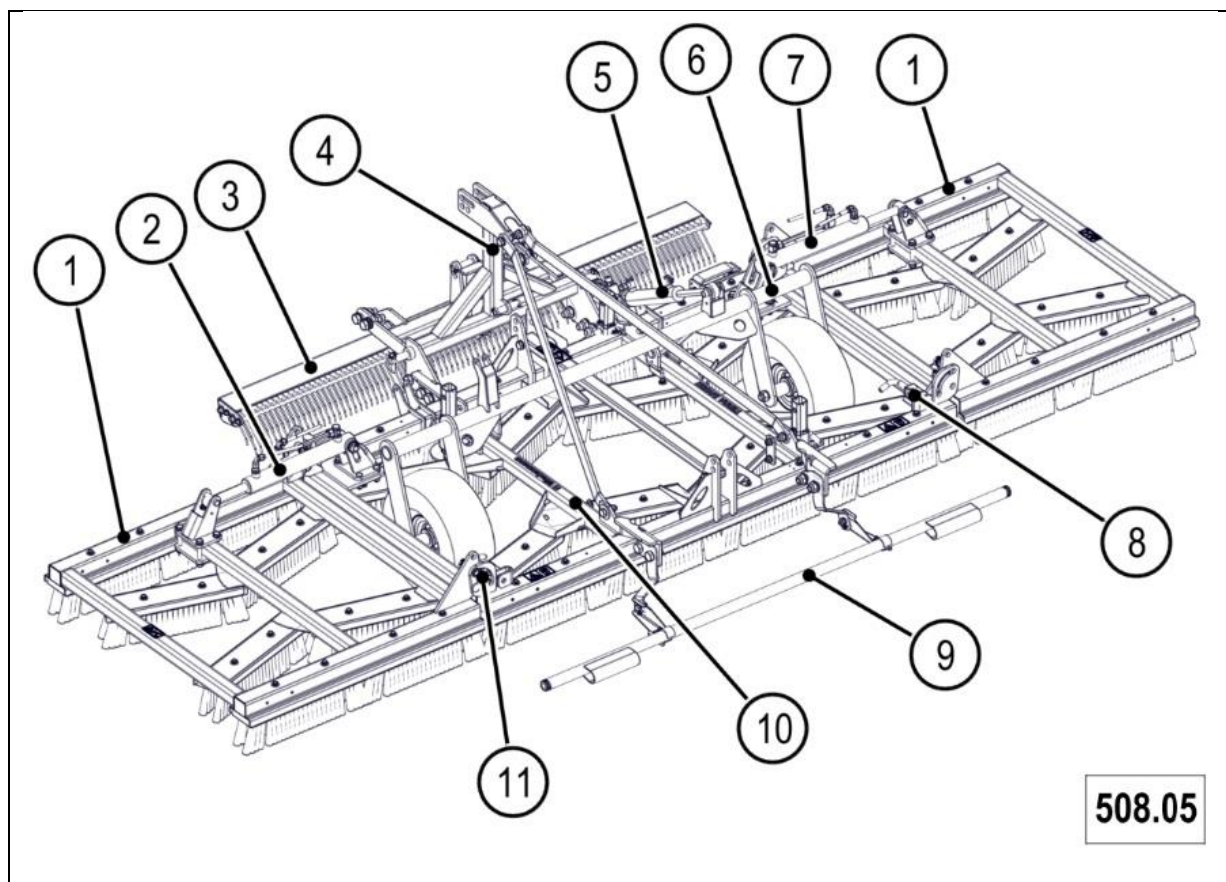
1	Transportation lock, right-hand extension arm ¹⁾
----------	---

2	Transportation lock, left-hand extension arm ¹⁾
----------	--

¹⁾ Optional

4 Machine description

4.1 Machine overview




1	Extension arm ¹⁾
2	Hydraulic cylinder, left-hand extension arm ¹⁾
3	Tine harrow
4	Three-point hitch
5	Hydraulic cylinder, chassis ¹⁾
6	Chassis ¹⁾

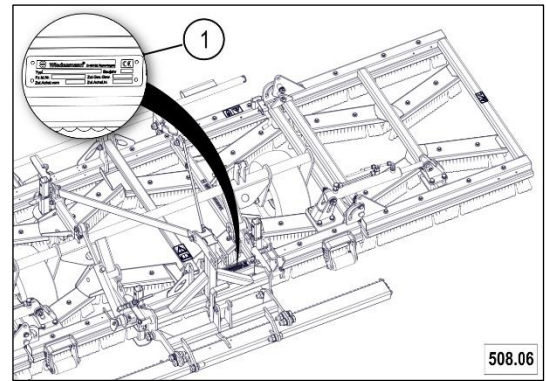
7	Hydraulic cylinder, right-hand extension arm ¹⁾
8	Transportation lock, right-hand extension arm ¹⁾
9	Magnetic bar ¹⁾
10	Basic unit
11	Transportation lock, left-hand extension arm ¹⁾

²⁾ Optional

4.2 Nameplate

	<p>INFO!</p> <ul style="list-style-type: none"> ➤ The nameplate lists documented values and must not be changed, damaged or otherwise concealed!
---	--

The machine data is printed on the nameplate (1). The nameplate is fitted on the right-hand side of the machine chassis.



4.2.1 Chassis number

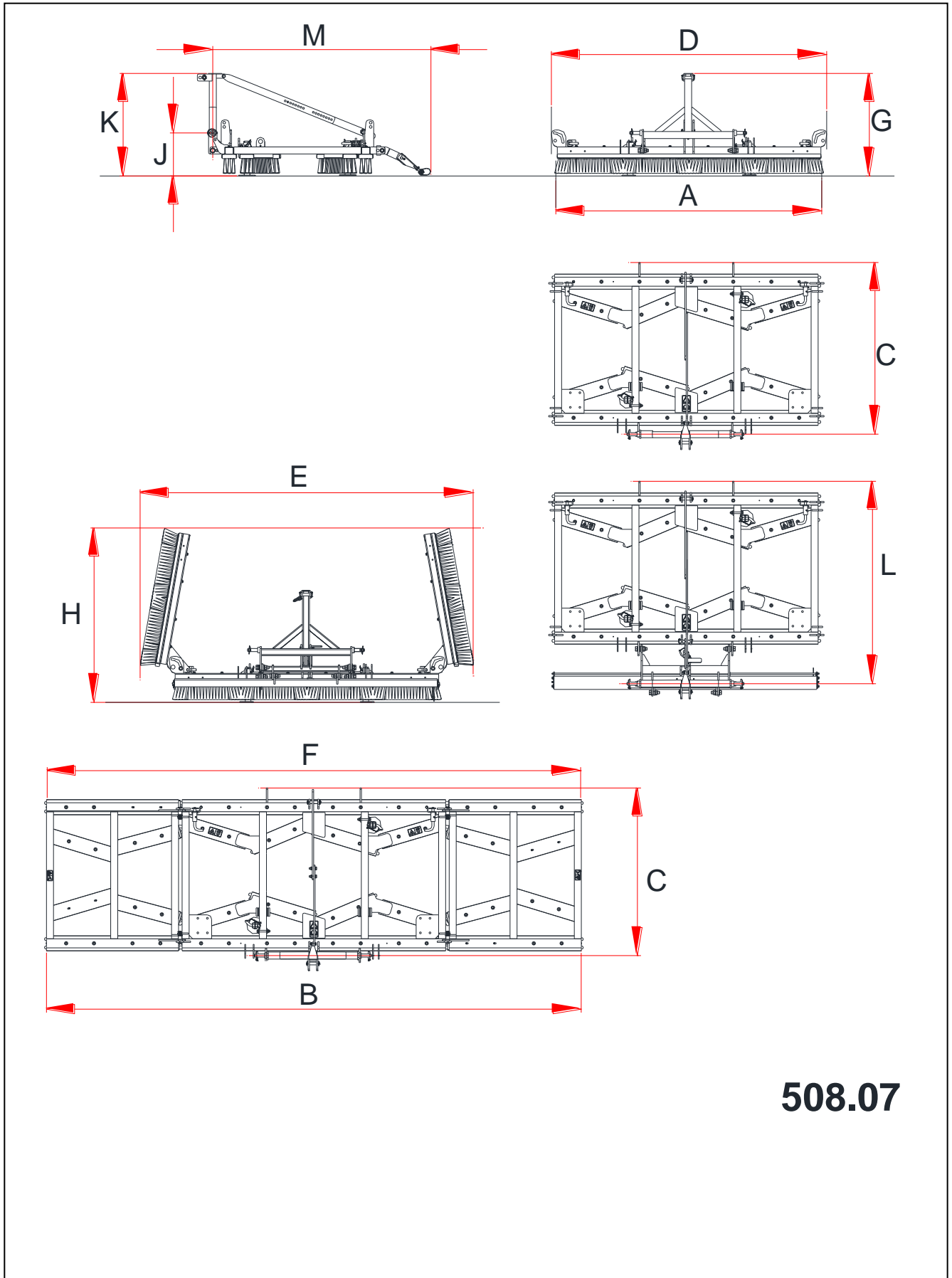
This number should be quoted in the event of warranty claims and when ordering spare parts. See Section 4.2 "Nameplate".

- Enter the vehicle identification number, the machine type and the year of manufacture on the front cover page of these operating instructions.

4.3 Technical specifications

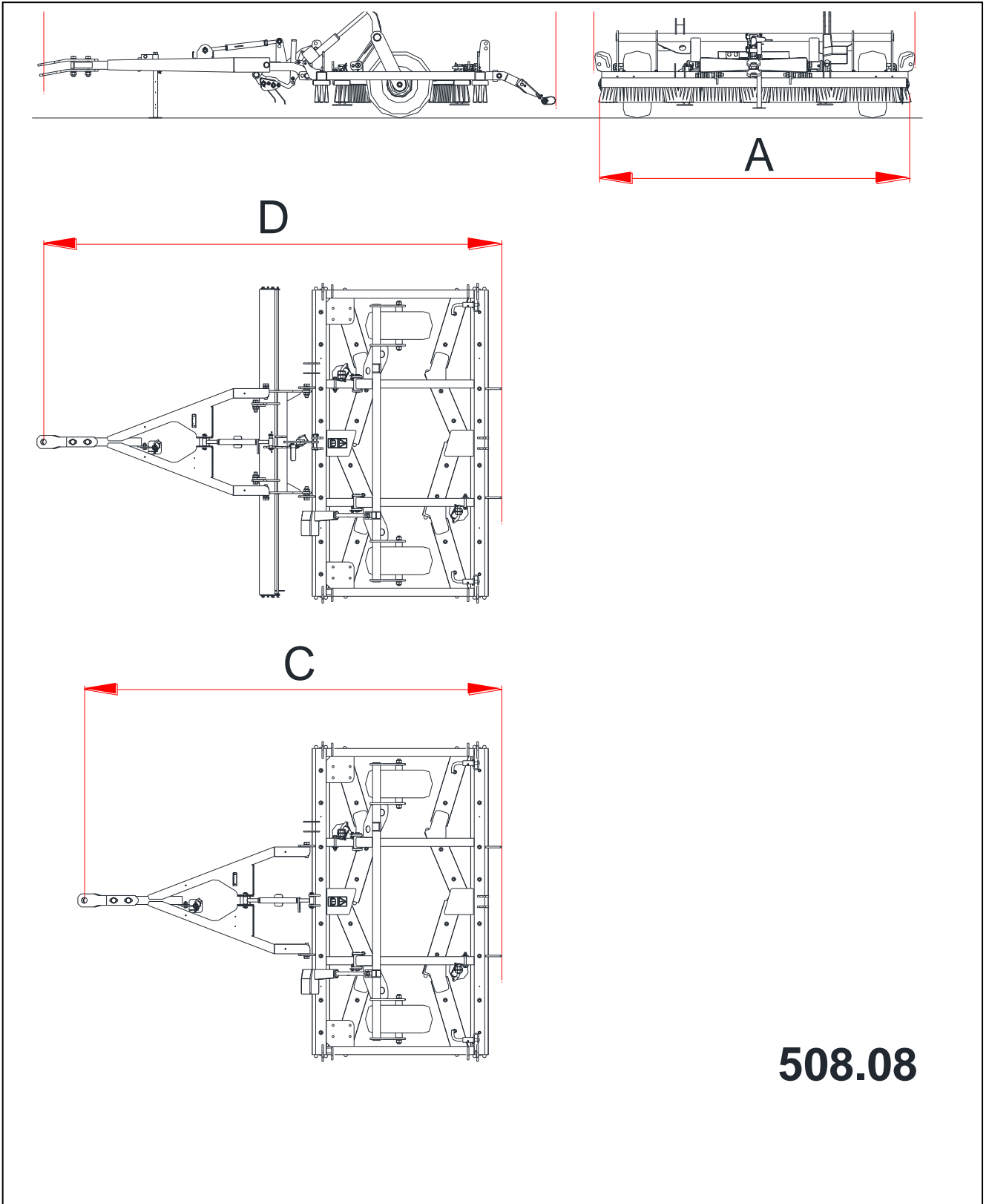
4.3.1 Three-point version

A	Effective width without extension arm	1870 mm
B	Effective width with extension arm	3790 mm
C	Equipment length without tine harrow	1230 mm
D	Equipment width without extension arm	1960 mm
E	Equipment width with extension arms folded up	2360 mm
F	Equipment width with lowered extension arms	3790 mm
G	Machine height	770 mm
H	Equipment height with extension arms folded up	1240 mm
J	Height to middle of lower guide bar connection	345 mm
K	Height up to middle of upper guide bar conn	730 mm
L	Equipment length with tine harrow	1450 mm
M	Max. device length with magnetic bar	1830 mm
	Min. hydraulic operating pressure	140 bar
	Max. hydraulic operating pressure	175 bar
	Min. lifting power of tractor	450 kg
	Total weight of basic unit without extension arm	126 kg
	Total weight of basic unit with extension arm	222 kg
	Dead weight hydraulic actuation of extension arms	30 kg
	Dead weight of jockey roller KIT	6 kg
	Dead weight of tine harrow	38 kg
	Dead weight of magnetic bar	10 kg
	Max. weight for grass pitches	306 kg
	Max. weight for synthetic turf	180 kg



4.3.2 Trailer version: without extension arms

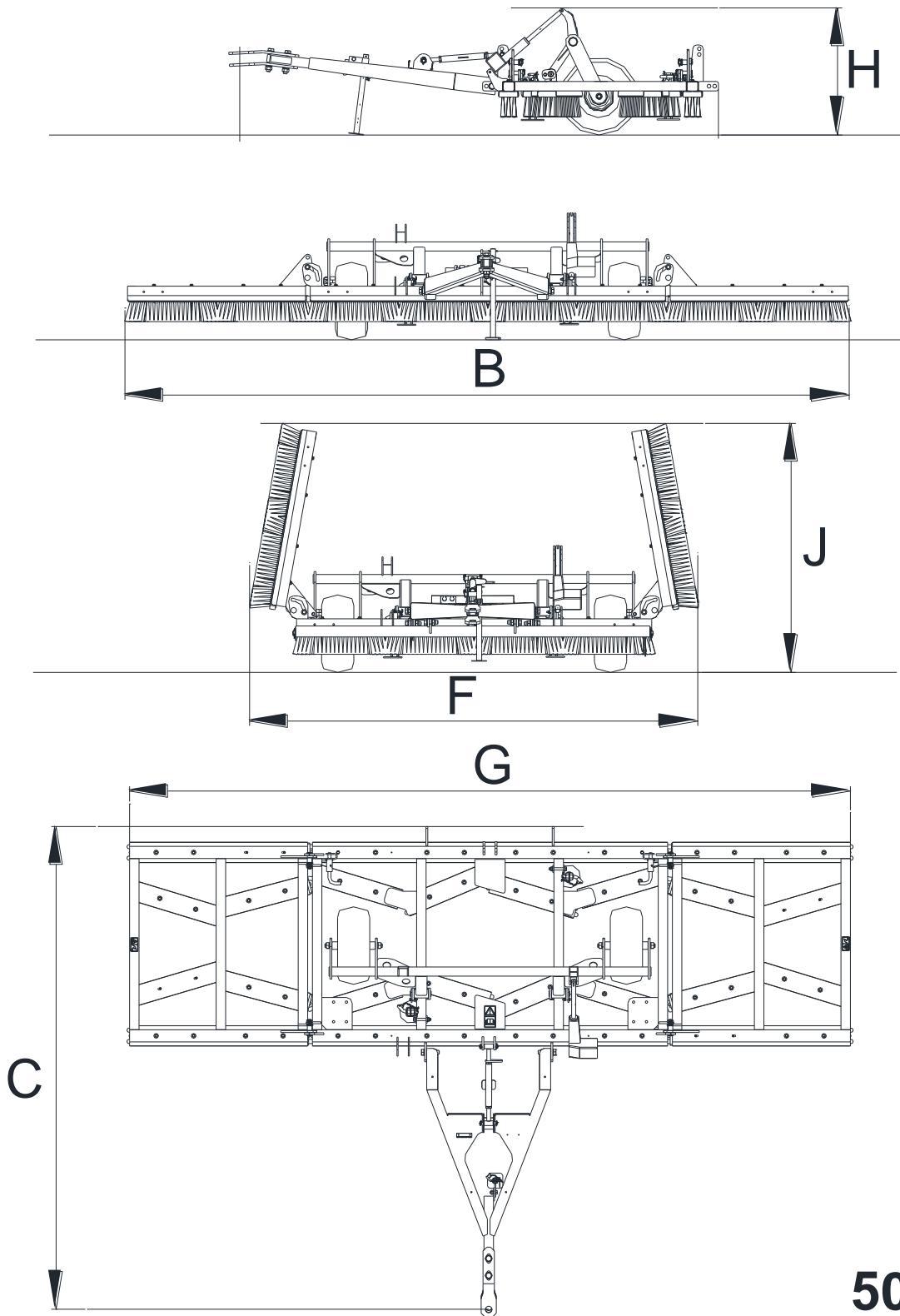
A	Effective width without extension arm	1870 mm
B		
C	Equipment length with chassis and drawbar	2540 mm
D	Equipment length with tine harrow, chassis and drawbar	2820 mm
E	Equipment width without extension arm	1960 mm
F	Device length with magnetic bar	2920 mm
G		
H	Equipment height with chassis and drawbar	670 mm
J		
	Min. hydraulic operating pressure	140 bar
	Max. hydraulic operating pressure	175 bat
	Tyres	16x6.50-8/4PR
	Tyre pressure	1,4 bar
	Track width	1440 mm
	Total weight of basic unit without extension arm	106 kg
	Dead weight of hydraulic lifting of chassis	80 kg
	Dead weight of electrical lifting of chassis	80 kg
	Dead weight of hydraulic actuation of extension arms	30 kg
	Dead weight of jockey roller KIT	6 kg
	Dead weight of tine harrow	38 kg
	Dead weight of magnetic bar	10 kg
	Permissible drawbar load	100 kg
	Max. weight for grass pitches	240 kg
	Max. weight for synthetic turf	240kg



508.08

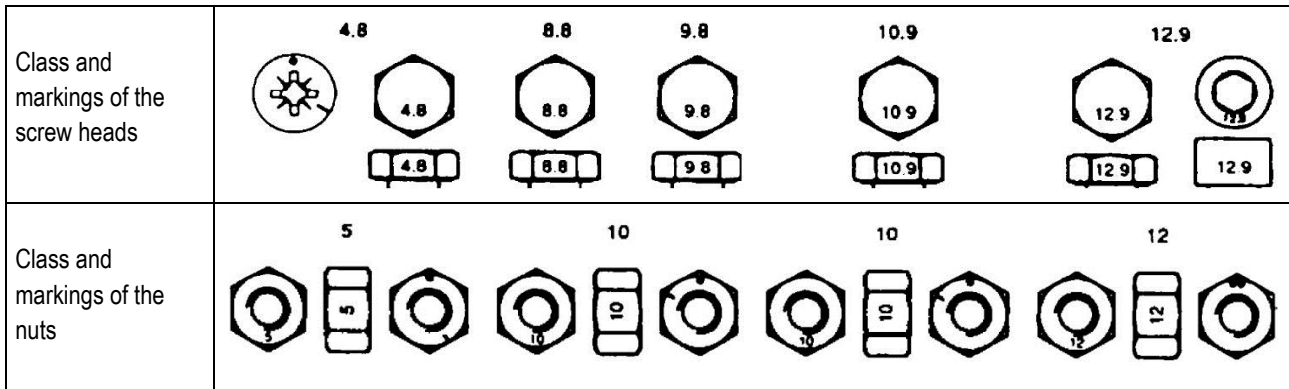
4.3.3 Trailer version: with extension arms

A		
B	Effective width with extension arm	3790 mm
C		
D	Equipment length with tine harrow, chassis and drawbar	2820 mm
E		
F	Equipment width with extension arms folded up	2360 mm
G	Equipment width with lowered extension arms	3790 mm
H		
J	Equipment height with extension arms folded up	1320 mm
	Min. hydraulic operating pressure	140 bar
	Max. hydraulic operating pressure	175 bar
	Tyres	16x6.50-8/4PR
	Tyre pressure	1,4 bar
	Track width	1440 mm
	Total weight of basic unit with extension arm	202 kg
	Dead weight of hydraulic lifting of chassis	80 kg
	Dead weight of electrical lifting of chassis	80 kg
	Dead weight of hydraulic actuation of extension arms	30 kg
	Dead weight of jockey roller KIT	6 kg
	Dead weight of tine harrow	38 kg
	Permissible drawbar load	100 kg
	Max. weight for grass pitches	356 kg



508.09

4.3.4 Torques for metric screws



Size	Class 4.8				Class 8.8 oder 9.8				Class 10.9				Class 12.9			
	Lubricated *		Dry **		Lubricated *		Dry **		Lubricated *		Dry **		Lubricated *		Dry **	
	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft
M6	4,8	3,5	6	4,5	9	6,5	11	8,5	13	9,5	17	12	15	11,5	19	14,5
M8	12	8,5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

The torques in this table are guidelines and do NOT apply where a different torque for certain screws or nuts is given in this instruction manual. Check tightness of fasteners periodically. Shear bolts are designed to fail under predetermined loads. Always replace shear bolt with identical property class. Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

* "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 % of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

** "Dry" means plain or zinc plated without any lubrication.

4.4 Supplies

Designation	Specifications
Hydraulic oil	Tectrol Super 2000 CD HC

5 Assembly

5.1 General information on assembly

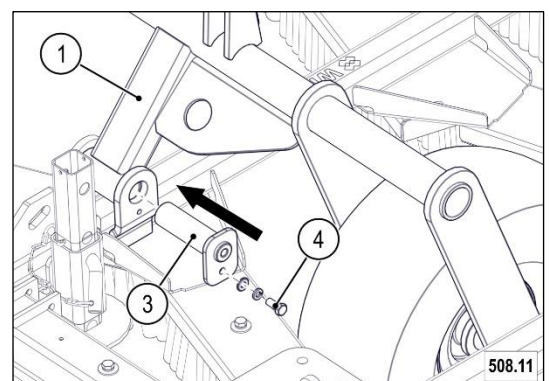
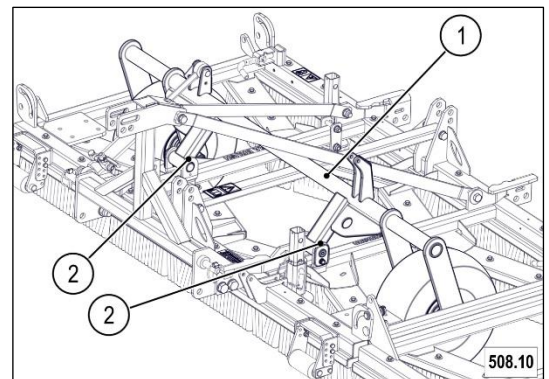
- For this work, please use your personal protective equipment (PSA) such as:
 - gloves
 - goggles
 - ear protectors.....
- Lay all the hydraulic lines and electrical cables so that they are not damaged during operation.

5.2 Chassis

5.2.1 Mounting the chassis

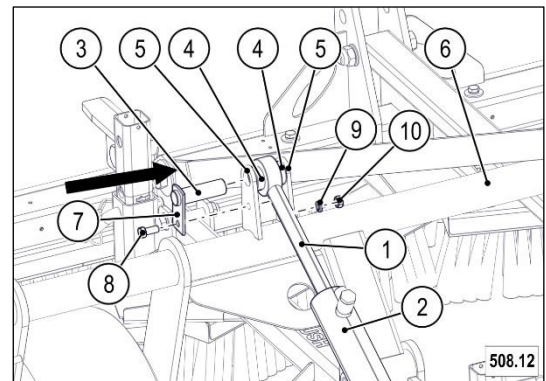
i	INFO!
	<ul style="list-style-type: none"> ➤ 2 persons are required for the installation of the chassis. The installation load is 40 kg.

- Install the chassis (1) into the support clips (2) of the base frame as shown in Fig.508.10.
- Peg out the chassis (1) with pin (3) on the base frame.
- Pin (3) is then secured with a lock washer and a hexagon screw (4).

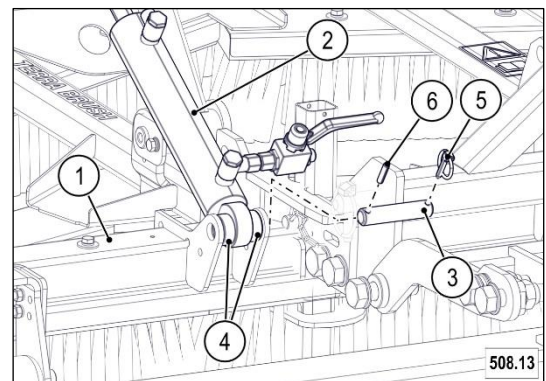


Mounting hydraulic cylinder for chassis

- Peg out the piston rod (1) of the hydraulic cylinder (2) with pin (3) and two-sided spacer ring (4) on the clips (5) of the chassis (6).
- The pin (3) is locked by securing the pin clip (7) with screw (8), lock washer (9) and nut (10).

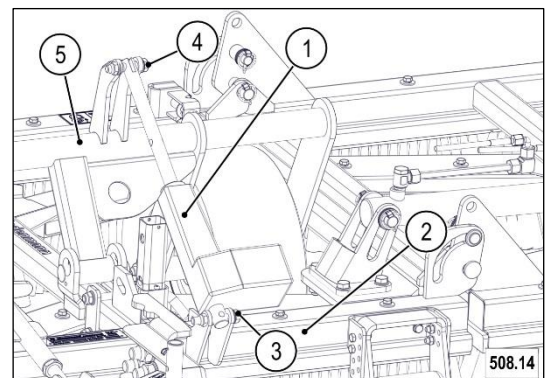


- On the base frame (1), peg out the hydraulic cylinder (2) with pin (3) and two-sided spacer ring (4) and secure with the linch pin (5) and clamping sleeve (6).

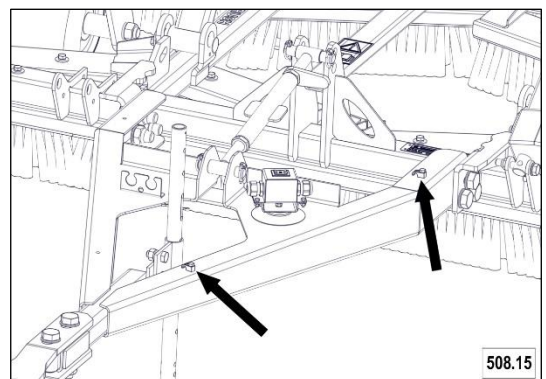


5.2.2 Mounting electric lifting equipment for chassis

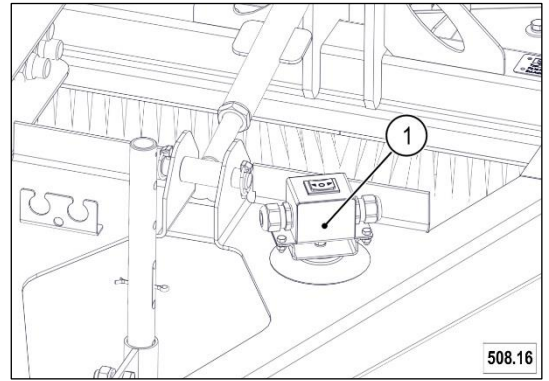
- Secure the electric lifting equipment (1) to the base frame (2) with screw (3) and screw (4) on the chassis (5).



- Attach the cable to the bores present on the hitch drawbar using fastening clamps.

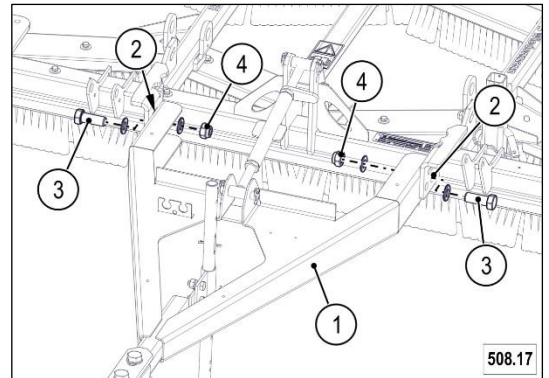


- Run electric cable with rocker switch (1) and plug (E) to the tractor.
- Connect plug (E) to the socket.

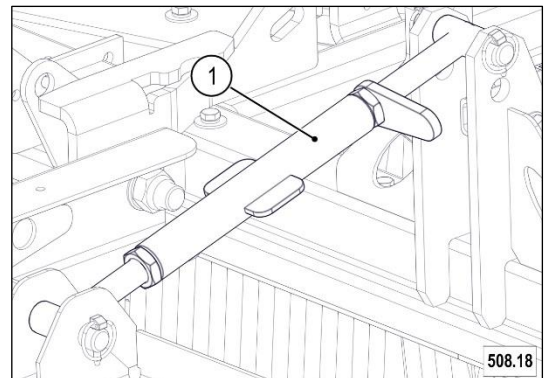


5.3 Mounting drawbar

- Secure the drawbar (1) at the rear bores (2) using the hexagon screw (3) and nut (4) such that it can still move.

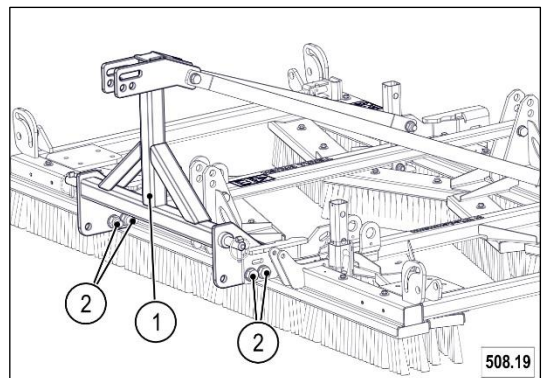


- Peg out the upper guide bar (1) at one of the two bores on the base frame and secure it.

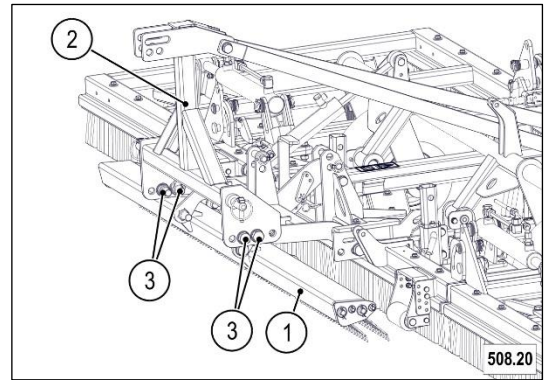


5.4 Mounting three-point frame

- Secure the three-point frame (1) to the front bores using screws (2) and nut.

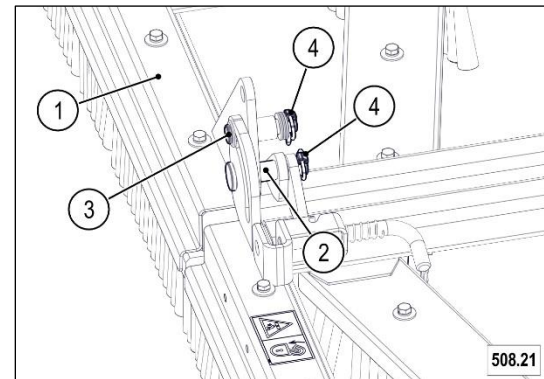


- For machines with tine harrow (1), the three-point frame (2) is secured to the bores using screws (3) and nut.

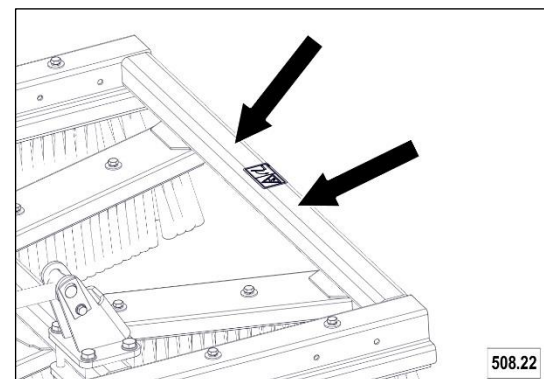


5.5 Mounting extension arms

- Lower basic unit onto the ground.
- Insert hinge clips of extension arm (1) from the outside into the hinge clips of the base frame.
- Peg out lower pin (2) at front and rear.
- Peg out upper pin (3) at front and rear.
- All pins must be secured with a linch pin (4).



- For safe (manual) lifting and lowering, the extension arms must be gripped as shown in image 508.22.
- The load during lifting/lowering of the side riggers is 24 kg.



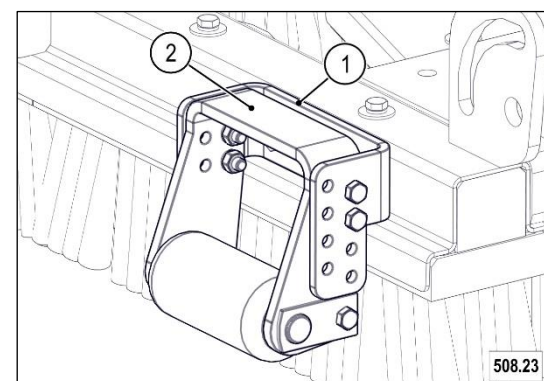
5.6 Mounting spacer rollers

On uneven surfaces, the rollers are designed to prevent the frame or extension arm from digging cavities in the turf.

Installation is always at the front, viewed in direction of travel.

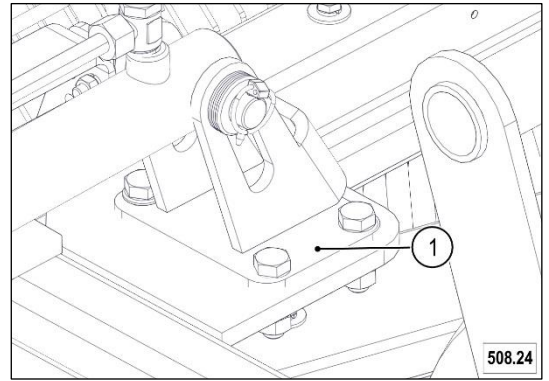
- Secure mounting (1) on available bores of frame.
- The roller mounting (2) can be secured at different distances to the end of the bristles.

We recommend a distance of 40 mm from the bottom of the roll to the end of the bristles on the strip brushes.

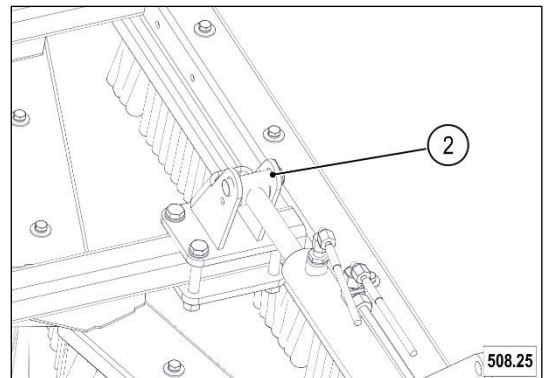


5.7 Installing the hydraulic system for the extension arms

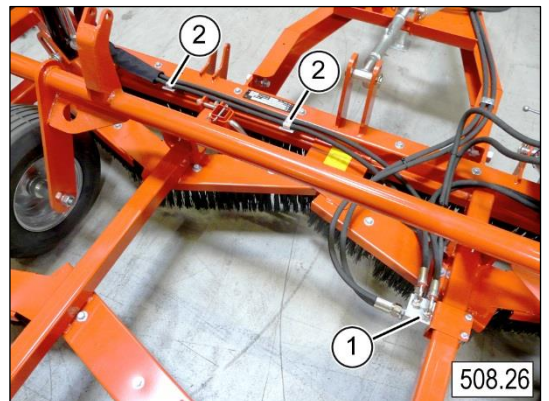
- Attach retainer (1) to the basic unit's plate with screws



- Secure clamp retainer (2) on side frame.

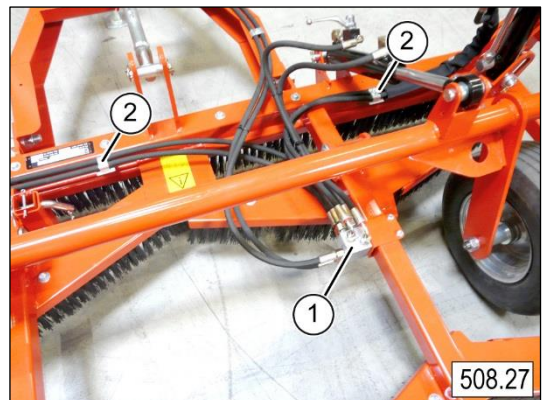


- Attach hydraulic distributor (1) to basic unit with clamp
- retainer.
- Secure hydraulic pipe to frame using securing screws (2).

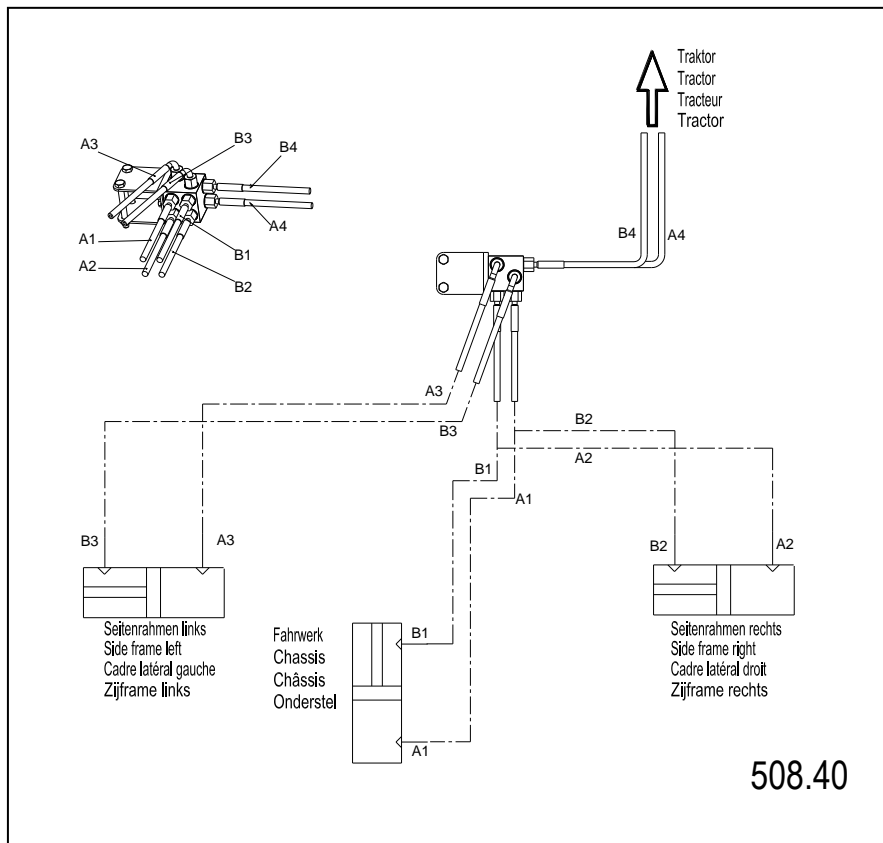


When connecting the hydraulic pipes, the following must be observed:

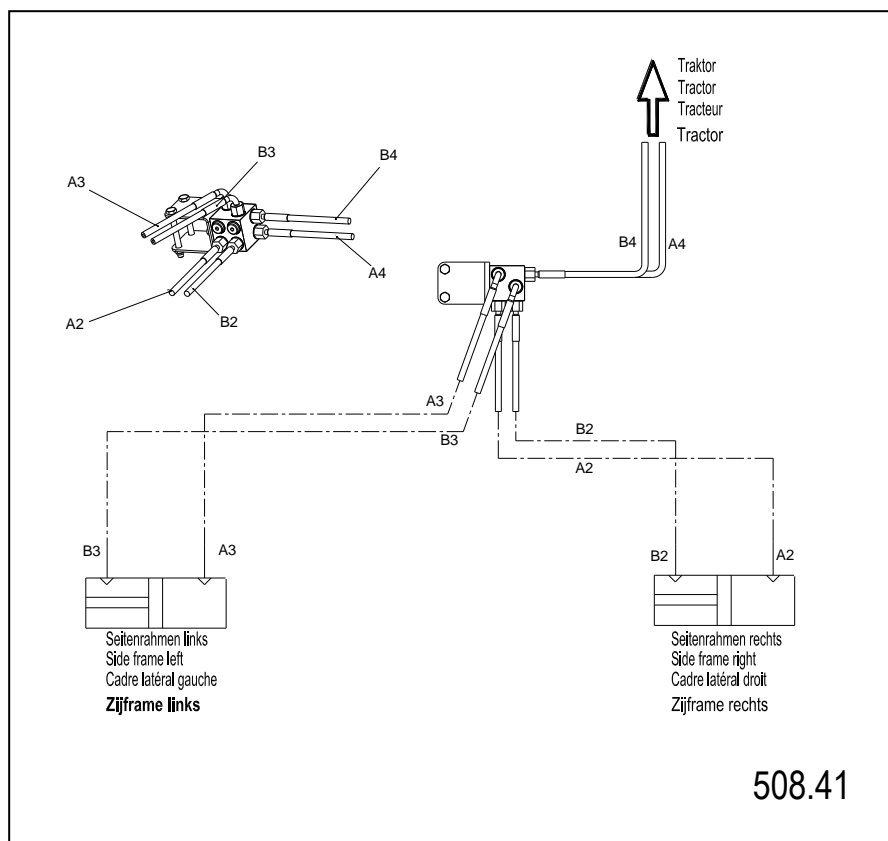
- that length is sufficient to allow movements
- that none of the pipes may be damaged by the movements.



5.7.1 Connection diagram for chassis and side frame

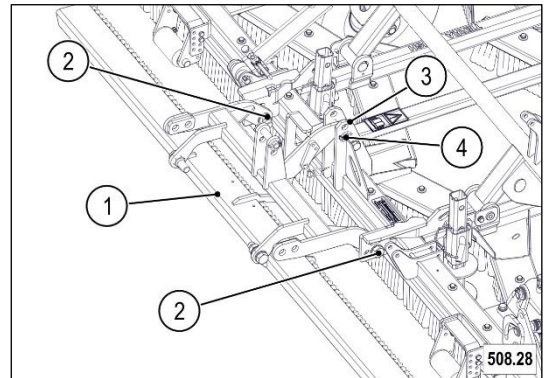


5.7.2 Connection diagram for side frames only



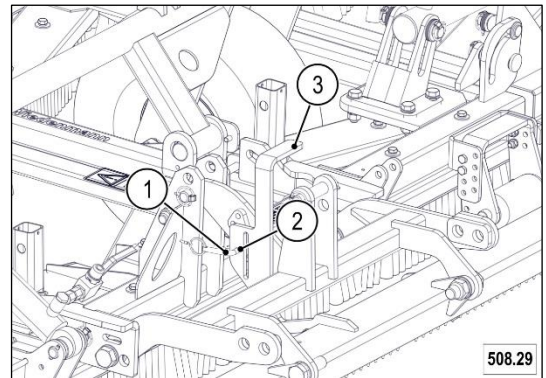
5.8 Mounting tine harrow

- Secure tine harrow (1) to the rear bores using screws (2) and nut.
- Release nut slightly so that tine harrow remains movable for uneven surfaces.
- Lift tine harrow to the front, insert at the clips (3) of the base unit into lower bore using pin (4) and secure.



- Prior to transportation of the tine harrow, peg out the tine harrow with pin (1) in bore (2) and secure.
- Lift the tine harrow with handgrip (3) to unplug and plug the bolt (1).

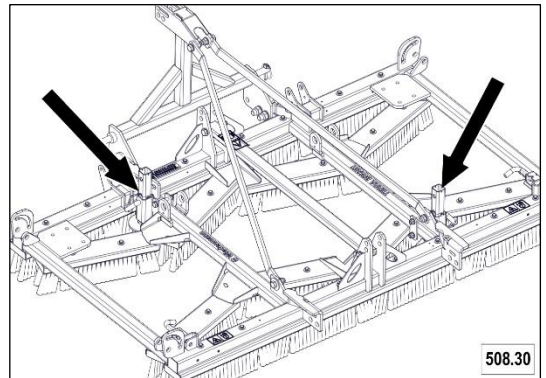
The supports described in chapter 2.9 must be mounted.



5.9 Positioning the supports

5.9.1 Three-point hitch vers

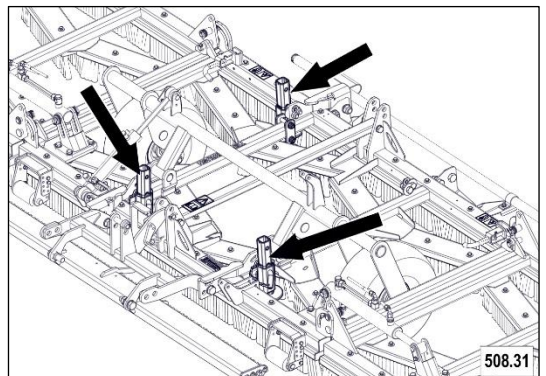
Basic unit without tine harrow



Basic unit with tine harrow

An additional support is included in the scope of delivery for the tine harrow. This is necessary for the base unit version with tine harrow and 3-point hitch.

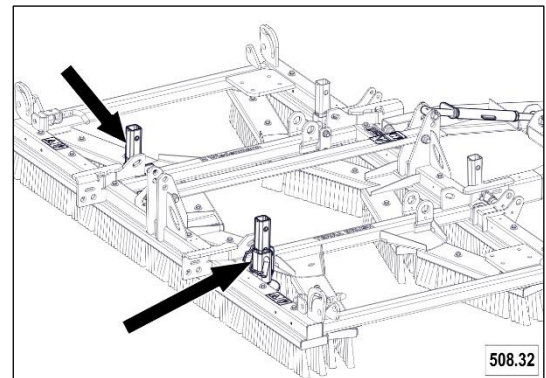
The position of the three supports can be seen in Fig. 508.31.




5.9.2 Drawbar version

Base unit with chassis with or without tine harrow

The support delivered with the tine harrow is not required.



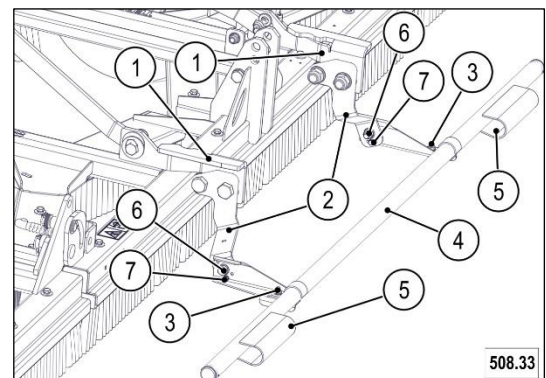
5.10 Mounting the magnetic bar

	⚠ WARNING!
	Magnets can influence the function of pacemakers and implanted defibrillators! <ul style="list-style-type: none">➤ A pacemaker may be switched to test mode and cause discomfort.➤ A defibrillator may no longer function under certain circumstances.➤ Please maintain sufficient distance to the magnets if you have a pacemaker/defibrillator➤ Please warn all persons, who have these devices, against coming too close to the magnets.

The magnetic bar is attached to the rear lugs of the basic unit.

- Slide the brackets of the magnetic bar (1) onto lugs (2) and securely screw on.
- Release clamping screws (3).
- Place the magnets (4) on the lower holder surface (5) and align laterally.
- The holder is always to the rear.
- Tighten clamping screws (3).



Screws (6 + 7) may not be tightened as the magnetic bar must remain movable.



6 Transport



6.1 Safety instructions for transport

The machine is delivered secured on a transport frame.

	 DANGER!
	<p>Danger to life due to falling load!</p> <ul style="list-style-type: none"> ➤ Only use a forklift truck with sufficient load capacity to raise the machine! ➤ Never stand under lifted loads.

Improper transportation and attachment of the machine can:

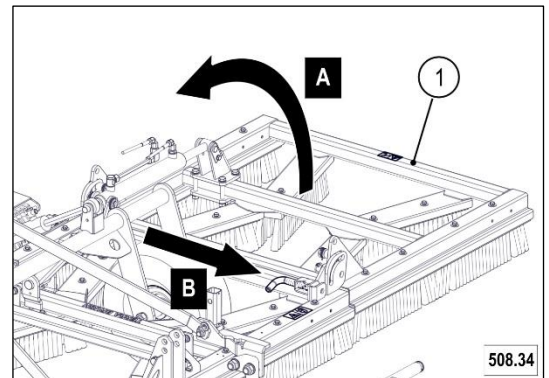
- injury to persons
 - damage to property
 - Pay special attention to the direction of approach when lifting the machine with the transport frame.
- We do not accept any liability for damage resulting from improper handling.

	 WARNING!
	<p>Risk of injury due to the ends of the tensioning straps "jumping up"!</p> <ul style="list-style-type: none"> ➤ Caution must be exercised when cutting through the securing straps.

6.2 Transportation

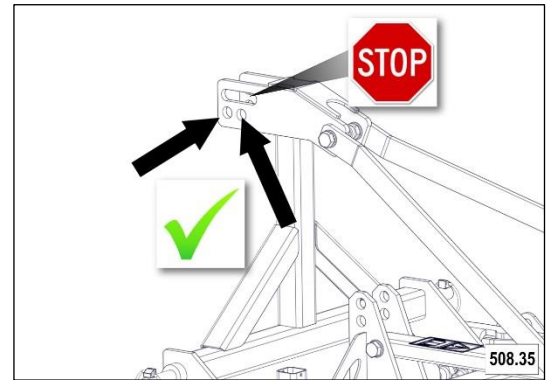
6.2.1 General Information


- The equipment version with a drawbar is NOT approved for travel on public roads!
- Prior to transportation, both extension arms (1) must be folded up and locked.



6.2.2 Transportation with three-point hitch

- Raise the attached equipment with the tractor rear hydraulic system and secure against inadvertent lowering.
- When driving on public roads, please observe the swivel range of the attached Terra Brush.




	CAUTION!
	<p>Risk of material damage to the Terra Brush</p> <ul style="list-style-type: none"> ➤ During transport, hook the upper guide bar of the tractor into one of the two holes and secure it.


6.2.3 Transportation with drawgear

- Lower the chassis of the mounted equipment hydraulically or electrically to the stop by pressing downwards and secure against accidental lowering.

7 Attaching to a tractor



7.1 Safety instructions for attachment to the tractor

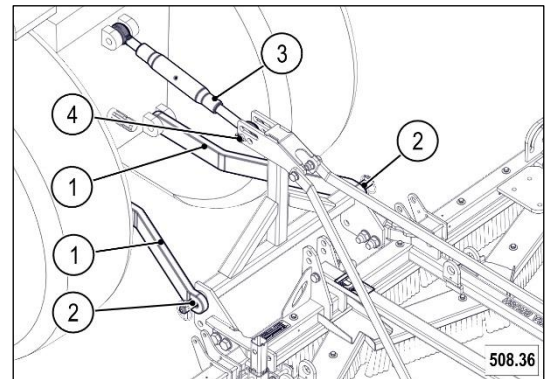
	CAUTION!
	<p>Impairment of the tractor's driving characteristics!</p> <ul style="list-style-type: none"> ➤ Always adapt your driving style to match the terrain and ground conditions! ➤ Special care should be taken when working and turning on a slope! ➤ Take into account unevennesses of the ground (bumps)!

	DANGER!
	<p>Potential hazard through not securing the tractor</p> <ul style="list-style-type: none"> ➤ Switch off the engine before performing any work. ➤ The ignition key must be removed. ➤ Secure the tractor against rolling away.

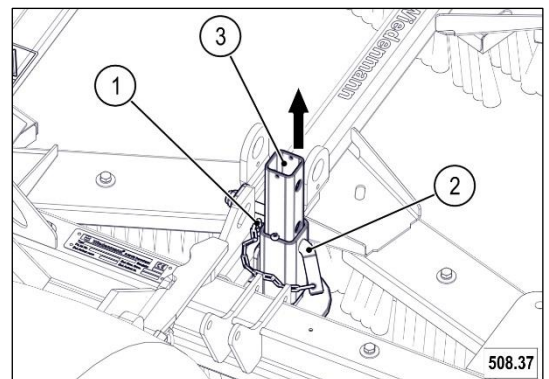
7.2 Installation with three-point hitch

- Mount lower guide bar (1) to pins (2) and secure.

	 CAUTION!
	<p>Risk of material damage to the Terra Brush</p> <ul style="list-style-type: none"> ➤ During transport, hook the upper guide bar of the tractor into one of the two holes and secure it.

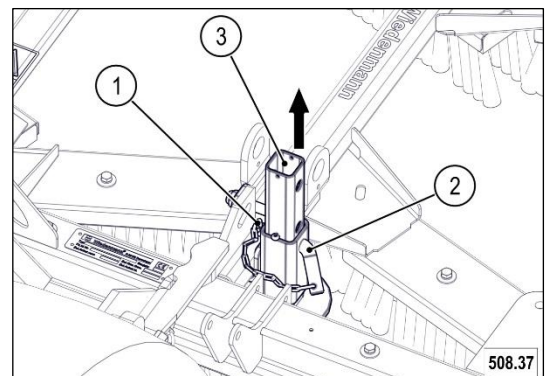
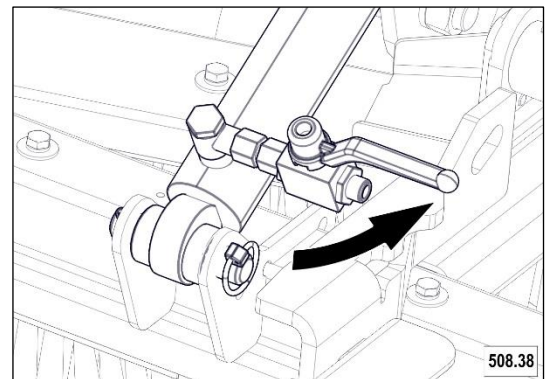


- Insert and secure the upper guide bar (3) with the bolt (4) to one of the two bottom holes in the three-point frame.
- Slightly raise mounted equipment with the tractor rear hydraulic system.
- Detach spring (1) cotter and remove pin (2).
- Push supports (3) upwards and insert in the lowest bores.
- Secure pin (2) with spring cotter.



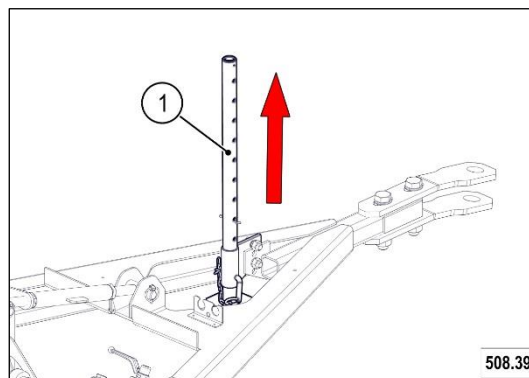
7.3 Mounting with drawbar

- Peg out drawbar on tractor and secure.
- Connect hydraulic lines to tractor. Move ball cock into opened position.
- With the version with electric lifting of the chassis, the electric plug must be connected to the socket on the tractor.
- If your tractor is not equipped with such a socket, please consult your dealer or have one installed by a specialist technician.
- Press chassis of attached equipment with the hydraulic system downwards so that the equipment can be raised.
- Detach spring (1) cotter and remove pin (2).
- Push supports (3) upwards and insert in the lowest bores.
- Secure pin (2) with spring cotter.



7.4 Support for drawbar

- Push supports (1) into the most upper position, peg out and secure.



7.5 Connecting the hydraulic system

- The hydraulic system is connected to the hydraulic sockets at the rear of the tractor.
- If your tractor is not equipped with such a socket, please contact your dealer.
- Avoid tight bends and chafing of the hydraulic lines.

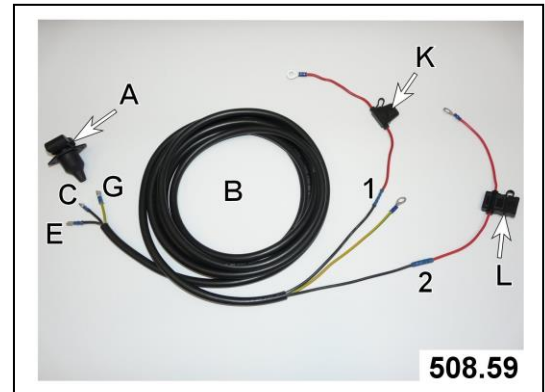
7.6 Ballast

- When mounting equipment at the rear, always ensure there is sufficient front axle load; steering must remain supported.
- Loads must always be attached to the mounting points provided in accordance with regulations.
- When selecting the front axle load, ensure that the permissible axle load weight, as well as the permissible overall weight including the mounted equipment, is not exceeded.
- Specifications in the Operating Instructions for the tractor must be observed.

7.7 Electric connection to battery

i	INFO!
	➤ Only appropriately qualified professionals may carry out the connection work.

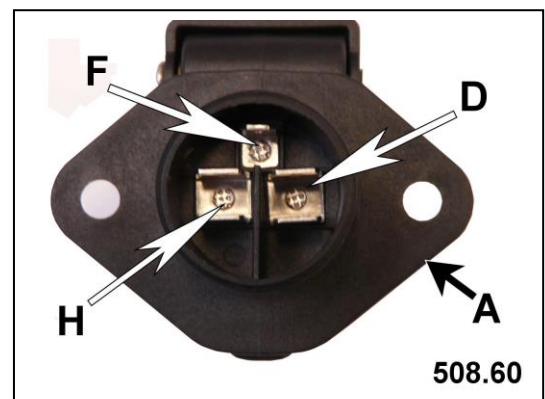
- Mount 3-pin socket (A) at a suitable location in the area of the driver's seat.
- Install cable (B) from the battery to 3-pin socket (A).
- Insert flat connector (C) of line 1 in socket (A) at position (D).
- Insert flat connector (E) of line 2 in socket (A) at position (F).
- Insert flat connector (G) of green/yellow line in socket (A) at position (H).



- Connect ring shoe of lines 1 and 2 to positive terminal of battery.
- Connect ring shoe of green/yellow line to negative terminal of battery.

The lines are fused as follows:

- Line 1 with 25 A (K)
- Line 2 with 10 A (L)



8 Before initial operation

8.1 General information before startup

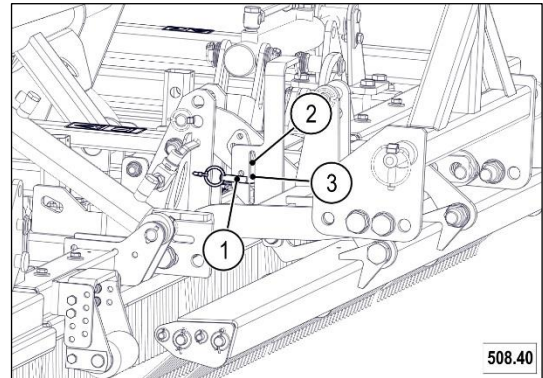
- Check whether all connection parts necessary for complete delivery are there.
- Observe the technical data when connecting to other tractor types.
- Observe the warning and information signs on the machine!
- When changing position with the machine in the working area, the sweeping head needs to be raised!
- Switch off the engine before performing any work. The ignition key must be removed.
- Secure the tractor against rolling away.
- For grassy areas with large ground unevenness, the terra brush must be changed.

8.2 Presetting

- The basic setting of both equipment versions must be made on a firm and flat surface.
- Move machine to working position.
- Using the upper guide bar on the tractor or the drawbar, the frame must be adjusted so that the load on all strip brushes is equal.


8.3 Setting the tine harrow


When working with the tine harrow, the plug (1) must be inserted in the slot (2) and the lower bore (3) and secured.



9 Operation



9.1 General information on operation

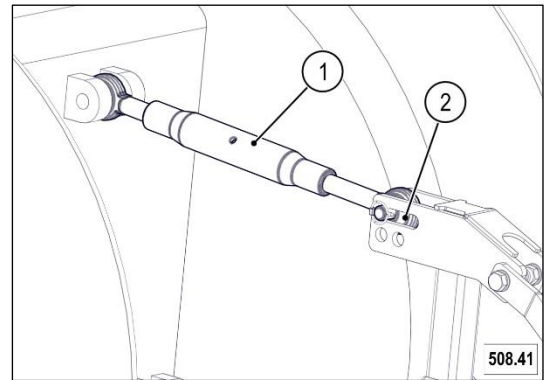
	⚠ WARNING!
	Risk of injury when remaining in the danger area! <ul style="list-style-type: none">➤ In the working area, the user is responsible for the safety of other persons!➤ Keep all persons clear of the danger zone of the machine!➤ Check the immediate surroundings before driving (children!)

	⚠ CAUTION!
	Impairment of the tractor's driving characteristics! <ul style="list-style-type: none">➤ Avoid driving in tight corners with the equipment version with drawgear.➤ In the case of the equipment version with a three-point frame, the rear hydraulic system of the tractor must always be in the floating position during operation.➤ Always adapt your driving style to match the terrain and ground conditions!➤ Special care should be taken when working and turning on a slope!➤ Take into account unevennesses of the ground (bumps)!

9.2 Three-point hitch in normal operation

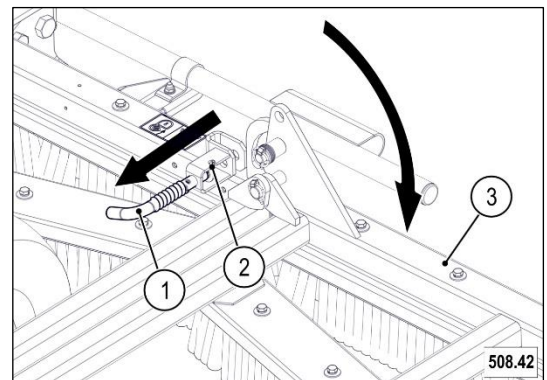
- For better adjustment to the ground, fix the upper guide bar (1) into the slot (2) in the three-point hitch.

	 CAUTION!
	<p>Risk of material damage to the Terra Brush</p> <ul style="list-style-type: none"> ➤ During transport, hook the upper guide bar of the tractor into one of the two holes and secure it.



9.3 Release locking element for extension arms

- Pull locking plug (1) and engage at recess (2).
- Carefully lower extension arm (3).

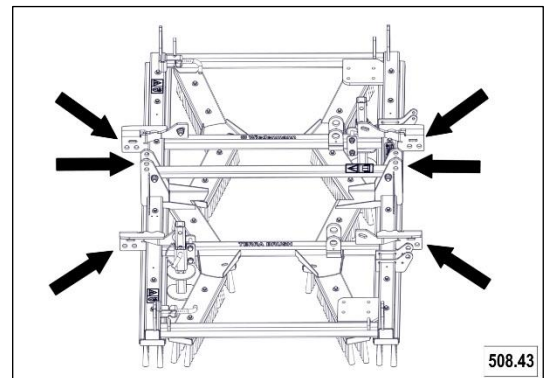


5.1 Deformed strip brushes

The base frame has been designed so that the three-point hitch or drawgear can be installed at the front or rear.



If the bristles on the strip brushes are permanently bent, we recommend that you install the three-point hitch or drawgear on the other side.



In the case of seriously bent bristles, replacement of the set is necessary.



10 Detaching from the tractor

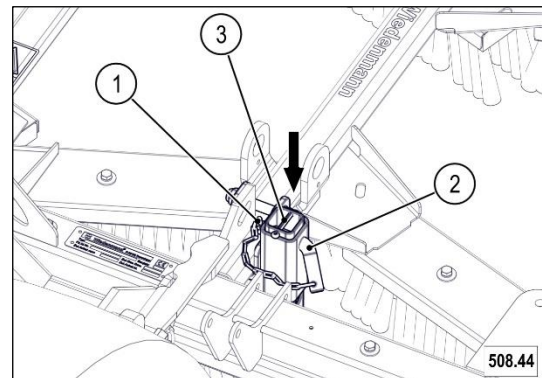
10.1 Safety instructions for dismantling the tractor

	 DANGER!
	Potential hazard through not securing the tractor <ul style="list-style-type: none">➤ Switch off the engine before performing any work.➤ The ignition key must be removed.➤ Secure the tractor against rolling away.

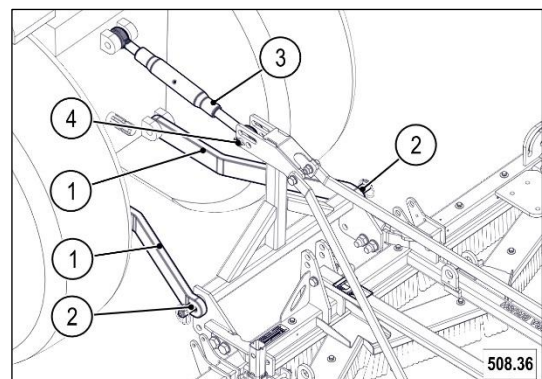
	 WARNING!
	Danger of overturning! <ul style="list-style-type: none">➤ Only detach the machine on solid and flat ground!

10.2 Removal with three-point hitch

- Before setting down the machine.
- Detach spring cotter (1) and remove pin (2).
- Insert supports (3) in the topmost bores.
- Secure pin (2) with spring cotter.

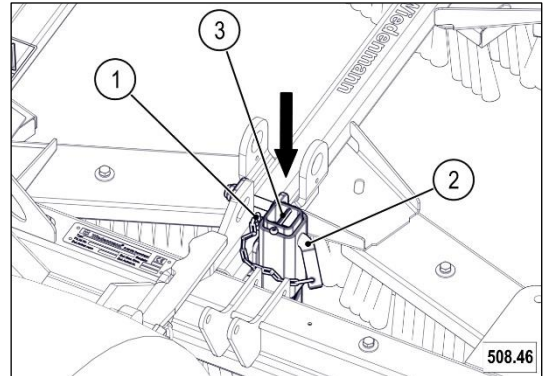


- Lower terra brush to ground.
- Release upper guide bar (3) and disconnect pins (4) from three-point frame.
- Release lower guide bar turnbuckles and remove lower guide bar (1) from locating pins (2) on three-point frame.

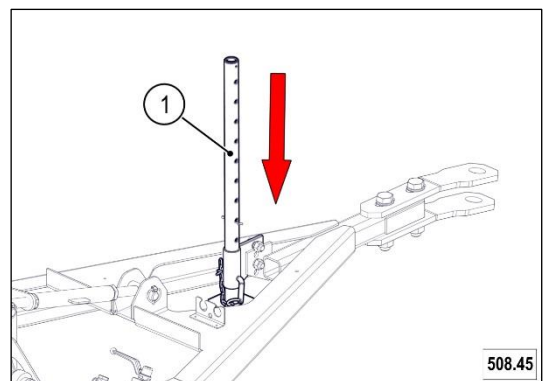


10.3 Removal with trailer version

- Before setting down the machine.
- Detach spring cotter (1) and remove pin (2).
- Insert supports (3) in the topmost bores.
- Secure bolt (2) with spring cotter (1).



- Lift the chassis of the mounted equipment hydraulically or electrically to the stop and secure against accidental lowering.
- Lower support at drawbar and secure.
- Disconnect hydraulic lines or electric plug.
- Disconnect drawbar from tractor.





11 Maintenance

11.1 General instructions for maintenance

	⚠ DANGER!
	<p>Potential hazard through not securing the tractor</p> <ul style="list-style-type: none"> ➤ Switch off the engine before performing any work. ➤ The ignition key must be removed. ➤ Secure the tractor against rolling away.

	⚠ WARNING!
	<p>Incorrect servicing/maintenance!</p> <ul style="list-style-type: none"> ➤ All maintenance, servicing and disassembly work must only be carried out by qualified personnel. ➤ On the machine version with lateral extension arms, ensure that the safety lock is engaged.

 	⚠ ATTENTION!
<p>➤ Only original parts should be used! Parts from other manufacturers are often not of sufficient quality and so endanger your safety.</p> <p>In addition, the warranty and claims against warranty can only be guaranteed if only original parts by Wiedemann were used. We explicitly inform you that parts not delivered by Wiedemann are not tested or released by Wiedemann. Therefore, installing or using such products may negatively influence preset properties of your vehicle and therefore endanger your active or passive safety. Damage caused by the use of parts other than original parts are excluded from the manufacturer's liability</p>	

11.2 Maintenance tables

11.2.1 Maintenance table (staggered in time)

Maintenance interval	Maintenance measure	Area
Regularly	➤ Check the air pressure. See 11.5 "Wheels and tyres"	Wheels and tyres
Once a week	➤ The lubricating points for the chassis frame must be greased every weekend.	Basic unit

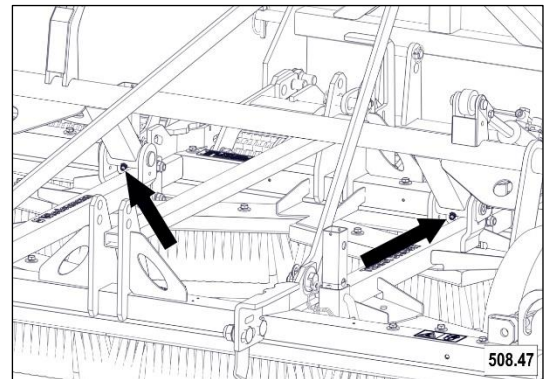
11.3 Lubricating points

11.3.1 Lubricating greases

Designation	Specifications
SAE Hochdruck-Mehrzweckfett	mit 3 – 5% Molybdändisulfid

11.3.2 Lubrication

- Switch off the machine for all lubrication work.
- Lubricate more often, if required.
- Keep all exposed machine parts, threaded spindles and guides slightly lubricated.
- Clean grease nipple before lubricating it.
- Clean up leaking grease.
- Before starting the machine after a longer standstill, lubricate and maintain the entire machine.
- The lubricating points for the chassis frame must be greased every weekend.



11.4 Hydraulic system



Check hydraulic lines at regular intervals for damage and aging. Change when necessary.

11.4.1 General safety information for the hydraulic system

- Only trained personnel are permitted to work on the hydraulic system!
- High-pressure fluids which leak under pressure can penetrate the skin causing serious injury.
- If you suspect that a pressure system may be damaged, shut down and secure the machine immediately and then contact a qualified specialist workshop.
- Never attempt to trace the source of leaks with your bare hands. Even just a pin hole can cause serious personal injuries.
- Use suitable materials when searching for leaks. (for example, a piece of cardboard)
- Keep your body and face well away from leaks.
- If a fluid penetrates the skin, it must be removed immediately by a doctor who is familiar with such injuries. Otherwise serious infections may result.
- Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.
- Prior to recommissioning, check the leak-tightness of the hydraulic system!

11.5 Wheels and tyres

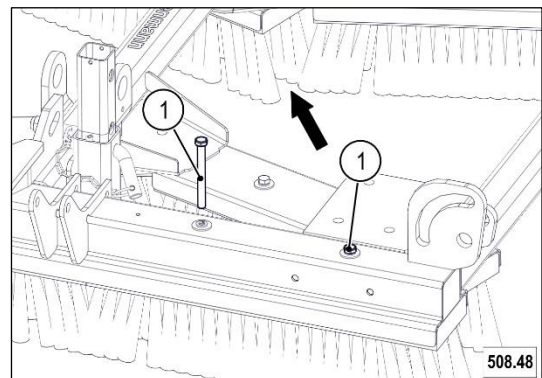
- Check the air pressure regularly : 1.4 bar (20 psi)


	 DANGER!
	<p>Risk of accident through explosive bursting of the tyres</p> <ul style="list-style-type: none"> ➤ Always ensure the tyre pressure is correct and do not exceed the maximum pressure stated. ➤ Check the wheels and tyres daily for underpressure, incisions, protrusions and swellings or damaged rims. ➤ Only carry out tyre installation if you have appropriate experience and equipment.

11.6 Replacing strip brushes




The strip brushes must always be replaced in sets.

- Release hexagon screws (1).
- Replace strip brush.
- Screw hexagon screws (1) in manually.
- Align strip brushes.
- Firmly tighten hexagon screws.



	INFO!
	<ul style="list-style-type: none"> ➤ When mounting the strip brush, always begin in the centre. ➤ Arrange the strip brushes so that the bristles overlap (see arrow in fig. 508.48). ➤ When the strip brushes are mounted in such a manner, this prevents streaks.

11.7 Cleaning



 	 ATTENTION!
	<p>Risk of injury</p> <ul style="list-style-type: none"> ➤ Reinigung nur mit Handfeger oder Wasser. ➤ Niemals mit den Händen.

- Clean the machine daily after the work is finished to ensure faultless functioning when it is next used.
- ☑ Only cleaned strip brushes ensure optimal functioning.
- Store the cleaned machine in dry conditions only.
- Lubricate the machine after cleaning it with water.

11.8 Unauthorized conversion and spare part manufacture

- Only convert or change the machine with the express permission of the manufacturer!
- The use of original parts and accessories authorized by the manufacturer is in the interest of your safety. Using parts not released by the manufacturer can have a negative impact on the properties of the machine. In this case, the manufacturer will assume no responsibility for the resulting consequences.




12 Troubleshooting

	 DANGER!
	<p>Potential hazard through not securing the tractor</p> <ul style="list-style-type: none"> ➤ Switch off the engine before performing any work. ➤ The ignition key must be removed. ➤ Secure the tractor against rolling away.




Description	Cause	Solution
Chassis cannot be raised or lowered.	Ball cock in closed position.	Set ball cock to open position.

13 Disposal

13.1 Disassembly/disposal

 	 ATTENTION!
	<p>Incorrect disassembly of machine parts!</p> <ul style="list-style-type: none"> ➤ Please refer to the chapter "Safety measures" and local safety regulations! ➤ The following hazards are: <ul style="list-style-type: none"> • residual pressure in lines and components. • heavy parts that could fall after disassembly • sharp edges

- Place the machine on firm ground.
- Drain the hydraulic oil and collect it in a suitable vessel.
- Disassemble the machine from top to bottom.

 	 ATTENTION!
	<p>Incorrect disposal of environmentally hazardous substances!</p> <ul style="list-style-type: none"> ➤ Regulations and laws concerning the disposal of hazardous substances and pollutants must be observed in all cases! ➤ Familiarize yourself completely with the procedure for disposal!

14 Equipment

14.1 Scope of Delivery

Basic unit	
Chassis with drawbar	Three-point hitch
Set of brushes with standard bristles	Set of brushes with hard bristles
Hydraulic lifting equipment for chassis	Special equipment electric lifting equipment for chassis
Operating instructions, transfer declaration with guarantee card	

14.2 Special equipment

- Extension arm set
- Set of brushes with standard bristles for extension arms
- Set of bristles with hard bristles for extension arms
- Jockey roller KIT (with 2 pieces) suitable for base frame and extension arm
- Electric lifting equipment for chassis
- Hydraulic actuation of extension arms
- Tine harrow
- Magnetic bar

14.3 Permissible equipment combinations

	Grassy areas					
Basic unit	S	S	S	S	S	S
Chassis	W	W	W	--	--	--
Three-point hitch	--	--	--	W	W	W
Extension arm set	--	O	--	--	O	--
Jockey roller KIT O O	O	O	O	O	O	O
Tine harrow	--	--	O	--	--	O
Magnetic bar	O	--	O	O	--	O

	Artificial turf					
Basic unit	S	S	--	S	S	--
Chassis	W	W	--	--	--	--
Three-point hitch	--	--	--	W	W	--
Extension arm set	--	--	--	--	--	--
Jockey roller KIT O O	O	O	--	O	O	--
Tine harrow	--	O	--	--	O	--
Magnetic bar	O	O	--	O	O	--

S = standard	W = selective	O = optional
--------------	---------------	--------------

15 EC Declaration of conformity



EC DECLARATION OF CONFORMITY

We

**Wiedemann GmbH
Am Bahnhof
89192 Rammingen**

declare under our sole responsibility that the product

**Drag brush
Terra Brush**

to which this declaration refers, corresponds with the relevant basic safety and health requirements of the machinery directive 2006/42/EC.



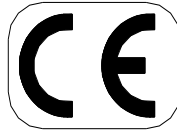
Rammingen, the 20.11.2019	Horst Wiedemann
(Place and date of issue)	Managing Partner
	(Name, function and signature of authorized person)



Rammingen, the 20.11.2019	Winfried Eckle
(Place and date of issue)	Technical office manager Authorised representative for tech. documentation
	(Name, function and signature of authorized person)

NOTE: The declaration of conformity is no longer valid if changes are made to the machine that have not been agreed with the manufacturer.

16 Declaration of conformity



Declaration of conformity

We

**Wiedemann GmbH
Am Bahnhof
89192 Rammingen**

hereby declare that the product

**Drag brush
Terra Brush**

referred to by this declaration complies with the requirements of
Machinery Directive 2006/42/EC.



Rammingen, the 20.11.2019	Oliver Matthes
(Place and date of issue)	Sales Manager
	(Name, function and signature of authorized person)



Rammingen, the 20.11.2019	Markus Remmele
(Place and date of issue)	Operations Manager
	(Name, function and signature of authorized person)

