

Operating manual

AMAZONE

GROUNDKEEPER GHD SMARTCUT



MG5072
BAF0007.4 06.22
Printed in France

Please read and follow this operating manual before putting the machine into operation. Keep it in a safe place for future use.

en





READING THE INSTRUCTION

manual and adhering to it should not appear to be inconvenient and superfluous as it is not enough to hear from others and to realise that a machine is good, to buy it and to believe that now everything should work by itself. The person concerned would not only harm himself but also make the mistake of blaming the machine for the reason of a possible failure instead of himself. In order to ensure good success one should go into the mind of a thing, make himself familiar with every part of the machine and to get acquainted with its handling. Only in this way would you be satisfied both with the machine as also with yourself. To achieve this is the purpose of this instruction manual.

Leipzig-Plagwitz 1872. Rud. Sark.





Foreword

Identification data

Enter the machine identification data here. You will find the identification data on the rating plate.

Machine identification number:
(ten-digit)

Type: Groundkeeper GHD SMARTCUT

Year of manufacture: _____

Basic weight (kg): _____

Approved total weight (kg): _____

Maximum load (kg): _____

Manufacturer's address

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Spare part orders

Spare parts lists are freely accessible in the spare parts portal at www.amazone.de.

Please send orders to your AMAZONE dealer.

Formalities of the operating manual

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Identification data

Foreword

Dear Customer,

You have chosen one of the quality products from the wide product range of AMAZONEN-WERKE, H. DREYER SE & Co. KG. We thank you for your confidence in our products.

On receiving the machine, check to see if it was damaged during transport or if parts are missing. Using the delivery note, check that the machine was delivered in full including the ordered special equipment. Replacement will be made only if a claim is filed immediately!

Please read and follow this operating manual—in particular, the safety instructions—before putting the machine into operation. Only after careful reading will you be able to benefit from the full scope of your newly purchased machine.

Please ensure that all the machine operators have read this operating manual before they put the machine into operation.

Should you have any questions or problems, please consult this operating manual or contact your local service partner.

Regular maintenance and timely replacement of worn or damaged parts increases the lifespan of your machine.

Formatiert: Englisch (USA)

User evaluation

Dear Reader

We update our operating manuals regularly. Your suggestions for improvement help us to create ever more user-friendly manuals. Please send your suggestions to:

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User information

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31 User information

The "User information" section supplies information on using the operating manual.

3.11.1 Purpose of the document

This operating manual

- Describes the operation and maintenance of the machine.
- Provides important information on safe and efficient handling of the machine.
- Is a component part of the machine and should always be kept with the machine or the traction vehicle.
- Keep it in a safe place for future use.

3.21.2 Locations in the operating manual

All the directions specified in the operating manual are always viewed in the direction of travel.

3.31.3 Diagrams used

Instructions for action and reactions

Tasks to be carried out by the user are presented as numbered instructions. Always keep to the order of the instructions. The reaction to instructions is given by an arrow.

Example:

1. Instruction for action 1
→ Reaction of the machine to instruction for action 1
2. Instruction for action 2

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Lists

Lists without a mandatory sequence are presented as a list with bullet points.

Example:

- Point 1
- Point 2

Item numbers in diagrams

Numbers in round brackets refer to the item numbers in the diagrams. The first digit refers to the diagram; the second digit, to the item number in the illustration.

Example (Fig. 3/6)

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User information

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- Figure 3
- Item 6

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General safety instructions

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42 General safety instructions

This section contains important information on safe operation of the machine.

4.12.1 Obligations and liability

Comply with the instructions in the operating manual

Knowledge of the basic safety information and safety regulations is a basic requirement for safe handling and fault-free machine operation.

Obligations of the operator

The operator is obliged only to let those people work with/on the machine who

- Are aware of the basic workplace safety information and accident prevention regulations.
- Have been trained in working with/on the machine.
- Have read and understood this operating manual.

The operator is obliged

- To keep all the warning symbols on the machine in a legible state.
- To replace damaged warning symbols.

If you still have queries, please contact the manufacturer.

Obligations of the user

Before starting work, anyone charged with working with/on the machine is obliged

- To comply with the basic workplace safety instructions and accident prevention regulations.
- To read and understand the section "General safety information" of this operating manual.
- To read the section "Warning symbols and other labels on the machine" of this operating manual and to follow the safety instructions represented by the warning symbols when operating the machine.
- To get to know the machine.
- To read the sections of this operating manual, important for carrying out your work.

If the user discovers that a function is not working properly, then they must eliminate this fault immediately. If this is not the task of the user or if the user does not possess the appropriate technical knowledge, then they should report this fault to their superior (operator).

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Risks in handling the machine

The machine has been constructed to the state-of-the art and the recognised rules of safety. However, there may be risks and restrictions which occur when operating the machine

- For the health and safety of the user or third persons,
- For the machine,
- For other goods.

Only use the machine

- For the purpose for which it was intended.
- In a perfect state of repair.

Eliminate any faults that could impair safety immediately.

Guarantee and liability

Our "General conditions of sales and business" are always applicable. These shall be available to the operator, at the latest on the completion of the contract. Guarantee and liability claims for damage to people or goods will be excluded if they can be traced back to one or more of the following causes:

- Improper use of the machine.
- Improper installation, commissioning, operation and maintenance of the machine.
- Operation of the machine with defective safety equipment or improperly attached or non-functioning safety equipment.
- Non-compliance with the instructions in the operating manual regarding commissioning, operation and maintenance.
- Independently-executed construction changes to the machine.
- Insufficient monitoring of machine parts that are subject to wear.
- Improperly executed repairs.
- Catastrophic events as a result of the impact of foreign objects or force majeure.



General safety instructions

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4.22.2 Representation of safety symbols

Safety instructions are indicated by the triangular safety symbol and the highlighted signal word. The signal word (DANGER, WARNING, CAUTION) describes the gravity of the risk and has the following significance:

Formatierte Tabelle



DANGER

Indicates an immediate high risk, which will result in death or extremely serious physical injury (loss of body parts or long term damage) if not avoided.

If the instructions are not followed, then this will result in immediate death or serious physical injury.



WARNING

Indicates a medium risk, which could result in death or (extremely serious) physical injury if not avoided.

If the instructions are not followed, then this may result in death or serious physical injury.

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CAUTION

Indicates a low risk, which could incur minor or medium level physical injury or damage to property if not avoided.

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IMPORTANT

Indicates an obligation to special behaviour or an activity required for proper machine handling.

Non-compliance with these instructions can cause faults on the machine or in the environment.

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NOTE

Indicates handling tips and particularly useful information.

These instructions will help you to use all the functions of your machine to the optimum.

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4.32.3 Organisational measures

The operator must provide the necessary personal protective equipment, such as:

- Protective glasses
- Protective shoes
- Protective suit
- Skin protection, etc.

The operation manual

- Must always be kept at the place at which the machine is operated.
- Must always be easily accessible for the user and maintenance personnel.

Formatierte Tabelle



Check all the available safety equipment regularly.

4.42.4 Safety and protection equipment

Before each commissioning of the machine, all the safety and protection equipment must be properly attached and fully functional. Check all the safety and protection equipment regularly.

Faulty safety equipment

Faulty or disassembled safety and protection equipment can lead to dangerous situations.

4.52.5 Informal safety measures

As well as all the safety information in this operating manual, comply with the general, national regulations pertaining to accident prevention and environmental protection.

When driving on public roads and routes, then you should comply with the statutory road traffic regulations.

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General safety instructions

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4.62.6 User training

Only those people who have been trained and instructed may work with/on the machine. The operator must clearly specify the responsibilities of the people charged with operation, maintenance and repair work.

People being trained may only work with/on the machine under the supervision of an experienced person.

Activity \ People	Person specially trained for the activity ¹⁾	Trained person ²⁾	Person with specialist training (specialist workshop) ³⁾
Loading/Transport	X	X	X
Commissioning	--	X	--
Set-up, tool installation	--	--	X
Operation	--	X	--
Maintenance	--	--	X
Troubleshooting and fault elimination	--	X	X
Disposal	X	--	--

Legend: X..permitted --..not permitted

- ¹⁾ A person who can assume a specific task and who can carry out this task for an appropriately qualified company.
- ²⁾ Instructed persons are those who have been instructed in their assigned tasks and in the possible risks in the case of improper behaviour, have been trained if necessary, and have been informed about the necessary protective equipment and measures.
- ³⁾ People with specialist technical training shall be considered as a specialist. Due to their specialist training and their knowledge of the appropriate regulations, they can evaluate the work with which they have been charged and detect possible dangers.

Comment:

A qualification equivalent to specialist training can be obtained through long term activity in the appropriate field of work.



Only a specialist workshop may carry out maintenance and repair work on the machine, if such work is specifically designated "Workshop work". The personnel of a specialist workshop shall possess the appropriate knowledge and suitable aids (tools, lifting and support equipment) for carrying out the maintenance and repair work on the machine in a way which is both appropriate and safe.

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4.72.7 Safety measures in normal operation

Only operate the machine if all the safety and protection equipment is fully functional.

Check the machine at least once a day for visible damage and check the function of the safety and protection equipment.

4.82.8 Dangers from residual energy

Note that there may be residual mechanical, hydraulic, pneumatic and electrical/electronic energy at the machine.

Use appropriate measures to inform the operating personnel. You can find detailed information in the relevant sections of this operating manual.

4.92.9 Maintenance and repair work, fault elimination

Carry out prescribed setting, maintenance and inspection work in a timely manner.

Secure all media such as compressed air and the hydraulic system against unintentional start-up.

Carefully fix and secure larger subassemblies to lifting gear when carrying out replacement work.

Check all the screw connections for a firm seat. On completing maintenance work, check the function of safety and protection equipment.

4.102.10 Constructive changes

You may make no changes, expansions or modifications to the machine without the authorisation of AMAZONEN-WERKE. This is also valid when welding support parts.

Any expansion or modification work shall require the written approval of AMAZONEN-WERKE. Only use the modification and accessory parts released by AMAZONEN-WERKE so that the operating permit, for example, remains valid in accordance with national and international regulations.

Vehicles with an official type approval or with equipment connected to a vehicle with a valid type approval or approval for road transport according to the German road traffic regulations must be in the state specified by the approval.

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General safety instructions



WARNING

Risk of being crushed, cut, caught, drawn in or struck if supporting parts break.

It is forbidden to:

- Drill holes in the frame or on the chassis.
- Increasing the size of existing holes on the frame or the chassis.
- Welding support parts.

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4.10.12.10.1 Spare and wear parts and aids

Immediately replace any machine parts which are not in a perfect state.

Use only genuine **AMAZONE** spare and wear parts or the parts cleared by AMAZONEN-WERKE so that the operating permit retains its validity in accordance with national and international regulations. If you use wear and spare parts from third parties, there is no guarantee that they have been designed and manufactured in such a way as to meet the requirements placed on them.

AMAZONEN-WERKE accepts no liability for damage arising from the use of unapproved spare parts, wear parts or auxiliary materials.

4.112.11 Cleaning and disposal

Handle and dispose of any materials used carefully, in particular:

- When carrying out work on lubrication systems and equipment and
- When cleaning using solvents.

4.122.12 User workstation

Without exception, the machine may be operated by only one person sitting in the driver's seat of the tractor.

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General safety instructions

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4.13.2.13 Warning symbols and other signs on the machine

4.13.12.13.1 Positioning of warning symbols and other labels

Warning symbols

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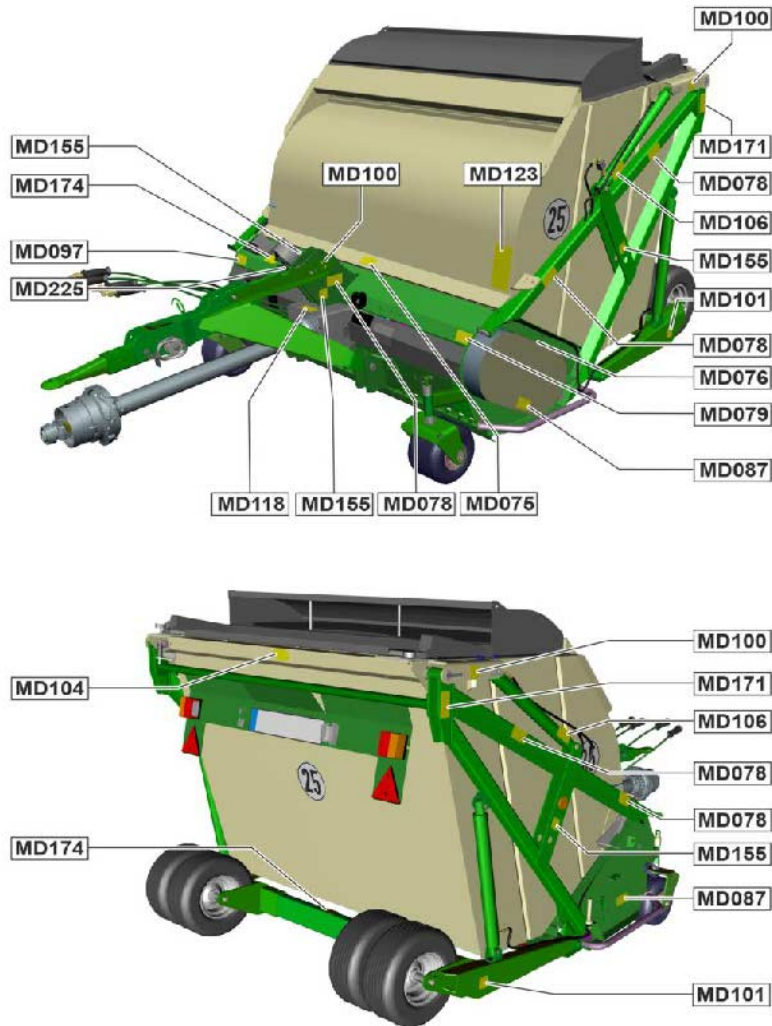
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General safety instructions

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The following diagrams show the arrangement of the warning symbols on the machine.



Always keep all the warning symbols of the machine clean and in a legible state. Replace illegible warning symbols. You can obtain the warning symbols from your dealer using the order number (e.g. MD 075).

Warning symbols - structure

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General safety instructions

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Warning symbols indicate dangers on the machine and warn against residual dangers. At these points, there are permanent or unexpected dangers.

A warning symbol consists of two fields:

Formatiert: Englisch (USA)



Field 1

is a symbol describing the danger, surrounded by triangular safety symbol.

Field 2

is a symbol showing how to avoid the danger.

Warning symbols - explanation

The column **Order number and explanation** provides an explanation of the neighbouring warning symbol. The description of the warning symbols is always the same and specifies, in the following order:

1. A description of the danger.
For example: danger of cutting!
2. The consequence of non observance of the danger protection instructions.
For example: causes serious injuries to fingers or hands.
3. Instructions for avoiding the danger.
For example: only touch machine parts when they have come to a complete standstill.

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General safety instructions

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Order number and explanation

Warning symbols

MD 075

Risk of cuts for fingers, hands, and arms..

- ▶ As long as engine of the tractor or machine is running, stay away from the danger area.
- ▶ Wait until all moving parts of the machine are at a standstill before reaching into the danger area.
- ▶ Make sure that there is nobody standing in the danger area.



MD 076

Risk of being drawn in or caught

- ▶ As long as engine of the tractor or machine is running, stay away from the danger area.
- ▶ As long as engine of the tractor or machine is running, do not remove any protective equipment.
- ▶ Make sure that there is nobody standing in the danger area.



MD 078

Risk of crushing fingers or hands

- ▶ As long as the tractor engine or implement motor is running, stay away from the danger area.
- ▶ If you have to move marked parts with your hands, pay attention to the crushing areas.
- ▶ Make sure that there is nobody standing in the danger area.



MD 079

Danger due to ejected material

- ▶ As long as engine of the tractor or machine is running, stay away from the danger area.
- ▶ Make sure that there is nobody standing in the danger area.



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MD 087

Danger due to cutting and moving machine parts

- ▶ As long as engine of the tractor or machine is running, stay away from the danger area.
- ▶ Make sure that there is nobody standing in the danger area.



MD 095

Before your work on or with the implement, read and understand the operating manual

- ▶ Before your work on or with the implement, read and understand the operating manual.



MD 096

Risk of infection from escaping hydraulic fluid under high pressure

- ▶ Never look for leaks in hydraulic hose lines using your hand or fingers.
- ▶ Never attempt to plug leaks in hydraulic hose lines using your hand or fingers.
- ▶ If you are injured by hydraulic oil, consult a doctor immediately



MD 097

Risk of crushing between the tractor and the implement

- ▶ Before you actuate the tractor hydraulic system, instruct persons away from the area between the tractor and the implement.
- ▶ Actuate the tractor hydraulic system only from the designated work station.





General safety instructions

Formatiert: Schriftart: Fett

MD 100

Risk of accidents due to improperly attached lifting gear

- ▶ Only attach the lifting gear at the marked positions.



MD 101

Risk of accidents due to improperly attached lifting equipment

- ▶ Only attach the lifting equipment at the marked positions.



MD 102

Risk due to unintentional starting and rolling away of the machine

- ▶ Before performing any work, secure the implement against unintentional starting and rolling away.



MD 104

Risk of crushing due to swivelling parts of the implement

- ▶ As long as the tractor engine is running, maintain an adequate safety distance from swivelling implement parts.
- ▶ Make sure that there is nobody standing close to swivelling parts.



MD 106

Risk of crushing from the machine parts unintentionally lowering

- ▶ Before entering the danger area secure raised machine parts with a hydraulic or mechanical locking device.



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General safety instructions

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MD 114

[This symbol indicates a lubrication point?????](#)



Formatiert: Schriftart: 10 Pt.

MD 118

Risk of implement damage due to excessively high drive speeds and incorrect direction of rotation of the drive shaft

- Comply with the maximum drive speed and direction of rotation of the drive shaft on the implement side.



MD 123

[Combination sticker](#)

[See MD095, MD102, MD199, MD096](#)



Formatiert: Englisch (USA)

Formatiert: Abstand Vor: 0 Pt.

MD 155

Risk of accident and machine damage during transport due to improperly secured machine

- Only attach the lashing belts at the marked lashing positions for transporting the machine.



MD 170

[Danger due to open protective device](#)

- [Before you operate the implement, close the protective device.](#)



Formatiert: Englisch (USA)

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General safety instructions

Formatiert: Schriftart: Fett

MD 170

Danger due to open protective device

- ▶ Before you operate the implement, close the protective device



MD 171

Risk of crushing due to the lifted hopper

- ▶ Before moving the hopper, make sure that there is nobody standing in the danger area.



MD 174

Risk of rolling over due to unsecured implement

- ▶ Secure the implement against rolling away.
- ▶ To do so, use the parking brake and/or wheelchocks.



MD 199

Risk of accident if the hydraulic system pressure is too high

- ▶ Only couple the implement to tractors with a maximum tractor hydraulic pressure of 210 bar.



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General safety instructions

Formatiert: Schriftart: Fett

MD 225

Risk of crushing when coupling the tractor and the implement

- Make sure that there is nobody standing in the danger area.



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Formatiert: Schriftart: 1 Pt.



General safety instructions

4.14

4.162.14 Dangers if the safety information is not observed

Non-observance of the safety information

- ▶  Can pose both a danger to people and also to the environment and machine.
- ▶  Can lead to the loss of all warranty claims.

Seen individually, non-compliance with the safety information could pose the following risks:

- ▶  Danger to people through non-secured working areas.
- ▶  Failure of important machine functions.
- ▶  Failure of prescribed methods of maintenance and repair.
- ▶  Danger to people through mechanical and chemical impacts.
- ▶  Risk to environment through leakage of hydraulic fluid.

4.172.15 Safety-conscious working

Besides the safety information in this operating manual, the national general workplace safety and accident prevention regulations are binding.

Comply with the accident prevention instructions on the warning symbols.

When driving on public roads and routes, comply with the appropriate statutory road traffic regulations.

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Formatiert: Schriftart: Deutsch (Deutschland), Rechtschreibung und Grammatik prüfen

Formatiert: Schriftart: 1 Pt.



4.18.2.16 Safety information for users

	WARNING Risk of being crushed, cut, caught, drawn in or struck due to insufficient traffic and operational safety! • Before starting up the machine and the tractor, always check their traffic and operational safety.
---	---

Formatierte Tabelle

4.18.12.16.1 General safety and accident prevention information

- Beside these instructions, comply with the general valid national safety and accident prevention regulations.
- The warning symbols and labels attached to the machine provide important information on safe machine operation. Compliance with this information guarantees your safety!
- Before moving off and starting up the machine, check the immediate area of the machine (children)! Ensure that you can see clearly!
- It is forbidden to ride on the machine or use it as a means of transport!
- Drive in such a way that you always have full control over the tractor with the attached machine.
- In so doing, take your personal abilities into account, as well as the road, traffic, visibility and weather conditions, the driving characteristics of the tractor and the connected machine.

Connecting and disconnecting the machine

- Only connect and transport the machine with tractors suitable for the task.
- Connect the machine to the prescribed equipment in accordance with the specifications.
- When coupling machines to the front or the rear of the tractor, the following may not be exceeded:
 - The approved total tractor weight
 - The approved tractor axle loads
 - The approved load capacities of the tractor tyres
 - The approved attachment load of the tractor
- Secure the tractor and the machine against unintentional rolling, before coupling or uncoupling the machine.
- Do not stand between the machine and tractor to be coupled while the tractor is approaching the machine.
- Any helpers may only act as guides standing next to the vehicles, and may only move between the vehicles when both are at a standstill.
- When coupling and uncoupling machines, move the support equipment (if provided) to the appropriate position

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General safety instructions

Formatiert: Schriftart: Fett

- When actuating the support equipment, there is a risk of injury from nip and shear points.
- Be particularly careful when coupling the machine to the tractor or uncoupling it from the tractor! There are nip and shear points in the area of the coupling point between the tractor and the machine.
- It is forbidden to stand between the tractor and the machine when actuating the three-point hydraulic system.
- Coupled supply lines:
 - Must give without tension, bending or rubbing on all movements when travelling round corners.
 - May not scour other parts.
- The release ropes for quick action couplings must hang loosely and may not release themselves when lowered.
- Also ensure that uncoupled machines are stable!

Use of the machine

- Before starting work, ensure that you understand all the equipment and actuation elements of the machine and their function. There is no time for this when the machine is already in operation!
- Do not wear loose-fitting clothing! Loose clothing increases the risk over being caught by drive shafts!
- Only start-up the machine, when all the safety equipment has been attached and is in the safety position!
- Once connected/attached, observe the maximum load of the machine and the approved axle, support and attachment loads of the tractor. If necessary, drive only with a partially-filled hopper.
- It is forbidden to stand in the working area of the machine.
- It is forbidden to stand in the turning and rotation area of the machine.
- There are contusion and cutting points at externally-actuated (e.g. hydraulic) machine points.
- Only actuate externally-actuated machine parts when you are sure that there is no-one within a sufficient distance from the machine!
- Secure the tractor against unintentional start-up and rolling before you leave the tractor.
 - ◆ For this:
 - Lower the machine onto the ground
 - Apply the parking brake
 - Switch off the tractor engine
 - Remove the ignition key

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General safety instructions

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General safety instructions

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Machine transportation

- When using public highways, national road traffic regulations must be observed.
- Before moving off, check:
 - the correct connection of the supply lines
 - the lighting system for damage, function and cleanliness
- Ensure that the tractor has sufficient steering and braking power.
- Any machines and front/rear weights connected to the tractor influence the driving behaviour and the steering and braking power of the tractor.
- If necessary, use front weights.
- The front tractor axle must always be loaded with at least 20 % of the empty tractor weight, in order to ensure sufficient steering power.
- Always fix the front or rear weights to the intended fixing points according to regulations.
- Comply with the maximum load of the connected machine and the approved axle and support loads of the tractor.
- The tractor must guarantee the prescribed brake delay for the loaded vehicle combination (tractor plus connected machine).
- Check the brake power before moving off.
- When turning corners with the machine connected, take the broad load and balance weight of the machine into account.
- Before moving off, ensure sufficient side locking of the tractor lower links, when the machine is fixed to the three-point hydraulic system or lower links of the tractor.
- Before moving off, move all the swivel machine parts to the transport position.
- Before moving off, secure the operating lever of the three-point hydraulic system against unintentional raising or lowering of the connected machine.
- Check that the transport equipment, e.g. lighting, warning equipment and protective equipment, is correctly mounted on the machine.
- Before transportation, carry out a visual check that the upper and lower link pins are firmly fixed with the lynch pin against unintentional release.
- Adjust your driving speed to the prevailing conditions.
- Before driving downhill, switch to a low gear.
- Before moving off, always switch off the independent wheel braking (lock the pedals).

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General safety instructions

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4.18.22.16.2 Hydraulic system

- The hydraulic system is under a high pressure.
- Ensure that the hydraulic hose lines are connected correctly.
- When connecting the hydraulic hose lines, ensure that the hydraulic system is unpressurised on both the machine and tractor sides.
- It is forbidden to block the operator controls on the tractor which are used for hydraulic and electrical movements of components, e.g. folding, swivelling and pushing movements. The movement must stop automatically when you release the appropriate control. This does not apply to equipment movements that:
 - are continuous or
 - are automatically locked or
 - necessarily require an open centre or pressure position to operate correctly
- Before working on the hydraulic system
 - Lower the machine
 - Depressurise the hydraulic system
 - Switch off the tractor engine
 - Apply the parking brake
 - Remove the ignition key
- Have the hydraulic hose line checked at least once a year by a specialist for proper functioning.
- Replace the hydraulic hose line if it is damaged or worn. Only use original **AMAZONE** hydraulic hose lines.
- The hydraulic hose lines should not be used for longer than six years, including any storage time of maximum two years. Even with proper storage and approved use, hoses and hose connections are subject to natural ageing, thus limiting the length of use. However, it may be possible to specify the length of use from experience values, in particular when taking the risk potential into account. In the case of hoses and hose connections made from thermoplastics, other guide values may be decisive.
- Never attempt to plug leaks in hydraulic lines using your hand or fingers.
- Escaping high pressure fluid (hydraulic fluid) may pass through the skin and ingress into the body, causing serious injuries!
- If you are injured by hydraulic fluid, contact a doctor immediately. Danger of infection.
- When searching for leakage points, use suitable aids, to avoid the serious risk of infection.

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4.18.32.16.3 Electrical system

- When working on the electrical system, always disconnect the battery (negative terminal).
- Only use the prescribed fuses. If fuses are used with too high a rating, the electrical system will be destroyed – danger of fire.
- Ensure that the battery is connected correctly - firstly connect the positive terminal and then connect the negative terminal. When disconnecting the battery, disconnect the negative terminal first, followed by the positive terminal.
- Always place the appropriate cover over the positive battery terminal. Contact with earth may cause an explosion
- Risk of explosion: avoid the production of sparks or the presence of naked flames in the vicinity of the battery.
- The machine can be equipped with electronic components and units, whose function may be influenced by electromagnetic interference from other devices. Such influences can lead to personal hazard if the following safety information is not followed.
 - If electrical units and/or components are retrofitted on the machine, which require a connection to the on-board power supply, the user must assume responsibility for checking whether the retrofit causes faults in the vehicle electronics or in other components.
 - Ensure that the retrofitted electrical and electronic components comply with the EMC directive 89/336/EEC in the appropriate version and carry the CE mark.

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General description of the machine

Formatiert: Schriftart: Fett

53 General description of the machine

5.13.1 Areas of application

The AMAZONE Lift Groundkeeper with drawbar is intended to be used for grass cutting and scarifying in public parks as well as sports fields and gardens, etc.
It can be used to collect and chop foliage in the autumn.

5.23.2 Declaration of conformity

The machine complies with the requirements of the EC Machinery Directives 2006/42/EC and associated additional guidelines.

5.33.3 Details required for enquiries

When ordering special optional equipment and spare parts, please remember to quote the **machine number**.

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Safety requirements are only fulfilled if genuine AMAZONE spare parts are used when a repair is undertaken. The use of other parts may remove liability for any consequences which may occur as a result.

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Formatiert: Abstand Vor: 6 Pt.

Formatierte Tabelle

5.43.4 Identification of the machine

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Formatiert: Schriftart: 1 Pt.



General description of the machine

Formatiert: Schriftart: Fett

The rating plate is fitted on the front left-hand side of the machine (Fig. 3.4/1).



The whole identification plate has the status of a certificate and must not be altered or made non recognisable.

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Formatierte Tabelle

5.6.3.5 Technical data

Model	Working width	Hopper capacity	Tare weight	Permissible total weight	Dimensions L x B x H [m]
GHD 1500	1,50 m	1800 l	900 kg	1350 kg	3,40 x 1,90 x 1,70
GHD 1800	1,80 m	2200 l	950 kg	1500 kg	3,40 x 2,20 x 1,70
Front tyres	11 x 7.00-4				
Rear tyres	16 x 6.5-8				
Front and rear tyre air pressure	2 bar				
Overall height	1,70 m				

5.6.13.5.1 Performance characteristics of the tractor

Model	Engine rating	
	Minimum	Maximum
GHD 1500	40 PS	80 PS
GHD 1800	50 PS	100 PS

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General description of the machine



Tractor attachment:

Specified performance characteristics are used to check the permissible total weight of the train, consisting of tractor and trailed machine.

5.6.23.5.2 Noise production data

The emission value (noise level) applicable to the working area is: $L_{pA} = 98 \text{ dB(A)}$. Measurements were taken under working conditions close to the driver's ear. Maximum noise emission : $L_{wA} = 115 \text{ dB(A)}$.

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General description of the machine

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Taking delivery of the machine

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5.73.6 Intended use

The AMAZONE Groundkeeper has been designed for conventional use in maintaining grassed open areas and parks (intended use).

Any use which goes beyond these limits is not regarded as the intended use. The manufacturer is not liable for any damages which may result from such use.
The risk involved in such use is borne solely by the user.

Intended use also includes compliance with instructions specified by the manufacturer concerning operation, servicing and maintenance as well as the exclusive use of **genuine AMAZONE spare parts**.

The AMAZONE Groundkeeper may only be used, serviced and maintained by persons who are familiar with the machine and who have received instruction concerning the risks involved.

All relevant accident prevention regulations and any other generally recognised rules concerning safety, occupational health and traffic laws must be observed and the safety instructions listed on the labels attached to the machine must be strictly followed.

Any unauthorised modification of the machine will automatically render all warranty claims against the manufacturer for resulting damage invalid.

64 Taking delivery of the machine

On receiving the machine, check to see if it was damaged during transport or if parts are missing. Replacements will only be made if claims are submitted promptly to the haulage company. Please check that all the parts listed on the despatch note have been delivered.

Before starting up, completely remove all packaging (including wires) and check lubrication.

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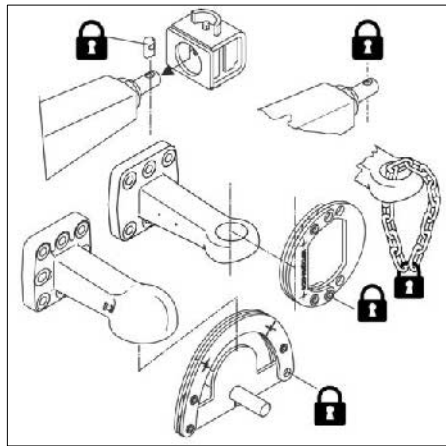


75 Attaching and detaching the machine to/from the tractor

7.15.1 Coupling the machine

7.1.15.1.1 Removing the safety device against unauthorised use

1. Unlock the padlock.
2. Remove the safety device against unauthorised use from the hitch device.





Attaching and detaching the machine to/from the tractor

Formatiert: Schriftart: Fett

7.1.25.1.2 Coupling and uncoupling the machine



The machine does not have a parking brake.

- Before uncoupling, the machine must always be secured with 2 wheel chocks, i.e. with one wheel chock under each rear wheel on both sides of the machine.
- When in use or during journeys on the road, the machine always runs on the rear wheels.
- Couple the machine to the yoke bar (Fig. 5.1.1/2) of the tractor with the towing eye (Fig. 5.1.1/1).
- Secure the pin (tractor-dependent) (Fig. 5.1.1/3).

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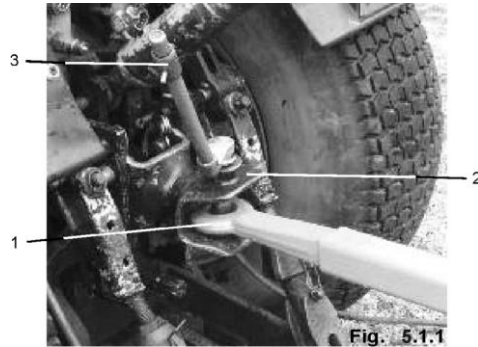


Fig. 5.1.1

Formatiert: Links



When coupling vehicles, use the equipment provided for that purpose in the intended manner.



It is prohibited for persons to stand between tractor and machine when the tractor is driving towards the machine to couple or uncouple.

Any assistants present standing next to the tractor and machine may only give directions.

Do not link up the operating connections from the machine until tractor and machine have been coupled, the tractor engine has been turned off, the handbrake applied and the ignition key taken out.

Check the routing of the supply lines.

The supply lines

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Attaching and detaching the machine to/from the tractor

- must give slightly in order to accommodate all movements produced when cornering without being subjected to tension, kinks or friction
- must not chafe against other parts.
-

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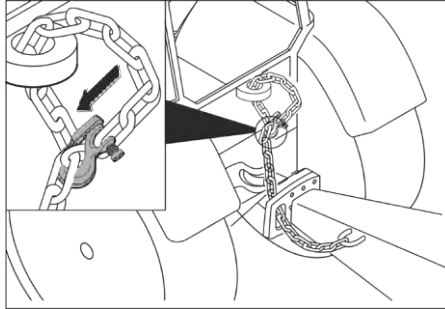


Attaching and detaching the machine to/from the tractor

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7.1.35.1.3 Attach the safety chain

Depending on country-specific regulations, implements are equipped with a safety chain.



- The safety chain must be mounted at a suitable point on the tractor as prescribed before travelling.

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Attaching and detaching the machine to/from the tractor

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7-1-45.1.4 Hydraulic connections

The hydraulic system operates under high pressure! The maximum permissible hydraulic operating pressure is 200 bar.

- When connecting the hydraulic hoses to the tractor's hydraulic system, care must be taken to ensure that the hydraulic system is free of pressure, both on the tractor side and on the machine side.

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Formatierte Tabelle

All hydraulic hose lines are colour-coded to allow each hydraulic function of the pressure hoses of a tractor control unit to be correctly assigned.

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Formatierte Tabelle

Hydraulic connections:

Plug hydraulic hose lines into the appropriate connections.

Function GH/GHS			
colour	marker		
	1	2	T
red	flow for Hydraulic block		return for Hydraulic block
yellow	Tilt hopper	Lower hopper	
green	Lift machine in back	Lower machine in back	
nature	Drawbar + (Cutting deck operation)		

7-1-55.1.5 Electrical connections

Connecting the power line: connect the machine's power cable to the socket provided on the tractor.

Required battery voltage: 12 volts

Plug for lighting: 7 pin

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Attaching and detaching the machine to/from the tractor

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7.1.65.1.6 Safety yoke

Fold the yoke forward and rest it on the drawbar.



Fig. 5.1.4

7.25.2 Uncoupling

- Bring the tractor and machine to a stop in a straight line on a level area of ground.
- Retract the hydraulic cylinder on the drawbar. The machine should be standing on all tyres and the support roller.
- Turn off the tractor engine, apply the handbrake and remove the ignition key.
- 2 Remove the wheel chocks from their holders at the rear of the machine.
- Secure the machine on both sides with 1 wheel chock under each of the outside tyres.

Formatierte Tabelle



Always secure the machine with 2 wheel chocks before you uncouple the machine from the tractor. The wheel chocks take the place of the machine's parking brake.

Formatiert: Abstand Vor: 6 Pt.

- Uncouple all supply lines between tractor and machine.
- Close off the coupling heads on the lines with protective caps.
- Plug all supply lines into the holders provided.
- Remove the lynch pin and fold the yoke backwards
- Depending on the height of the tractor, secure the yoke in the anchor with the lynch pin (Fig. 5.2)

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Attaching and detaching the machine to/from the tractor

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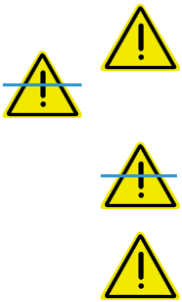
Attaching and detaching the machine to/from the tractor

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The machine must only be set down on level and firm ground.

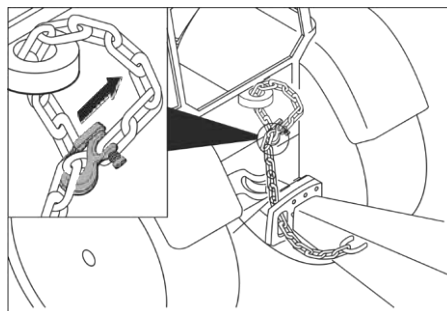
Before detaching the machine, check that the coupling point is not under load.

- Uncouple the drawbar.
- Drive the tractor away.

When driving the tractor away, there must be nobody present between tractor and machine.

Always use the retaining bracket for the drawbar. Without the retaining bracket, the drawbar would fall to the ground, thereby creating a risk of injury.

7.2.15.2.1 Release the safety chain



- Release safety chain from tractor.

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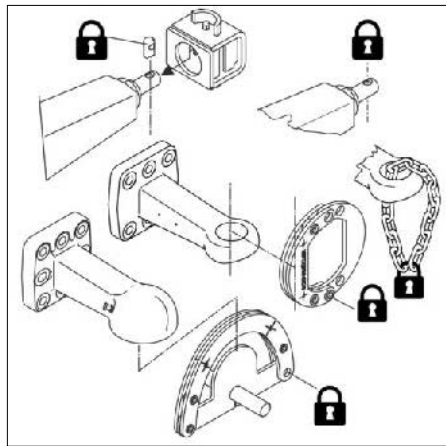
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7.2.25.2.2 Putting on the safety device against unauthorised use

1. Put the safety device against unauthorised use on the hitch
2. Put on the padlock.



7.35.3 PTO shaft



Only use the PTO shaft specified by the manufacturer:

- Walterscheid WWE2380 with or without freewheel for tractors with max. 40 hp output

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Formatierte Tabelle



If you have a tractor without a double clutch for the universal joint shaft drive, you must necessarily use a freewheel PTO shaft. Otherwise, the tractor will remain in motion due to the flywheel mass of the rotor, even if the clutch pedal has been depressed.

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Attaching and detaching the machine to/from the tractor

7.45.4 Fitting and adapting the PTO shaft

7.4.15.4.1 Fitting the PTO shaft



Before fitting, clean the gearbox input shaft on the machine and always use grease to push the PTO shaft onto the input shaft.

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Formatiert: Abstand Vor: 6 Pt.

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7.4.35.4.2 Adjusting the PTO shaft when first attached



When first attached, adjust the PTO shaft to the tractor according to Fig. 5.2.2. Since this adjustment is only applicable for this one type of tractor, the PTO shaft adjustment must be checked and repeated if the type of tractor is changed.

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Formatierte Tabelle

When attaching other PTO shaft halves onto the tractor's universal joint shaft profile, fit them without sliding the PTO shaft tubes into each other.

1. Hold the two PTO shaft tubes side by side and check whether the PTO shaft tubes provide a guaranteed sliding profile overlap of **at least 40 % of the LO** both when the machine is lowered and raised.
2. When pushed together, the PTO shaft tubes must not knock against the forks of the universal joint. A minimum safety distance of 10 mm must be observed.
3. To adjust the length, hold the PTO shaft halves alongside each other in the shortest operational position and draw a mark.
4. Shorten the inner and outer protective tube equally.
5. Round off the cut edges and carefully remove swarf.
6. Grease the sliding profiles and slide inside each other.
7. Hook in the supporting chain in such a way that the PTO shaft guard does not turn at the same time during operation.
8. Only use the machine if the drive is fully guarded.

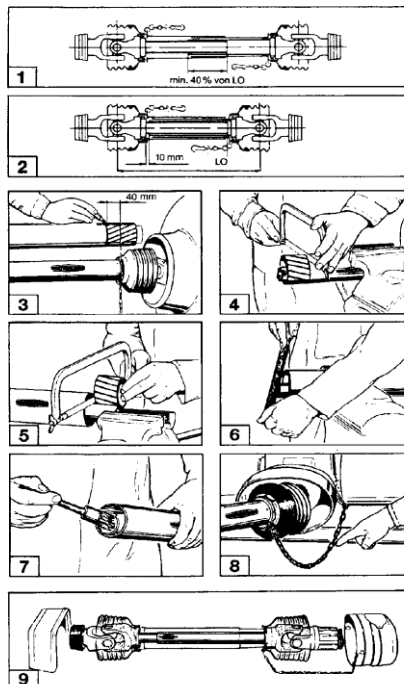


Fig. 5.4.2

Use PTO shaft with the full PTO shaft protection and supplementary protection at the tractor and machine. Replace protective equipment immediately at the first signs of damage.

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Attaching and detaching the machine to/from the tractor

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The angle defining the maximum joint bends in a universal joint on the PTO shaft can be found in the accompanying operating manual provided by the manufacturer.



This manual also contains information on fitting and maintenance that must be observed.

To avoid damage, only connect the universal joint shaft slowly when the tractor engine is running at low revs.

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Formatierte Tabelle

7.55.5 Groundkeeper transmission input speed

The gearbox on the Groundkeeper is equipped with a universal joint shaft connection. The machine must be powered with a maximum drive speed of 540 rpm:

Drive speed $n = 540$ rpm.

Formatierte Tabelle



Drive speeds higher than specified will cause the rotor to turn at a significantly higher speed. In extreme cases, this may lead to blades being released which could create a hazard for operating personnel.

Warranty claims for damage which can be traced back to an excessively high drive speed of the universal joint shaft will not be recognised.

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5.6 Connecting the hydraulics

In order to be able to work correctly with the machine, the following hydraulic joint must be fitted on the tractor side.

5.6.1 Electrically controlled hydraulic block (optional, country-specific)

7.6

In order to be able to work correctly with the machine, the following hydraulic joint must be fitted on the tractor side.

7.6.1 Electrically controlled hydraulic block (optional, country-specific)

Connection 1: permanent pressure connection (SVK socket 7241-1A 12.5)

required hydraulic power: 200 bar
40 l/min

Connection 2: Free flow return (SVK plug or socket 7241-1A 12.5)

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Groundkeeper GHD SMARTCUT_BAF0007.3_BAF0007.3_08.21

57

Groundkeeper GHD SMARTCUT_BAF0007.4_06.22

58



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max. return pressure: 1.5 bar

CAUTION:

If the return is not free flow, the following faults may occur:

- 1.) The hopper can no longer be lowered or is raised of its own accord
- 2.) The system becomes very hot and may overheat

Connection 3: Electrical socket, 3 pin (connection: DIN 9680)

required electrical power: 12 V / 15 A



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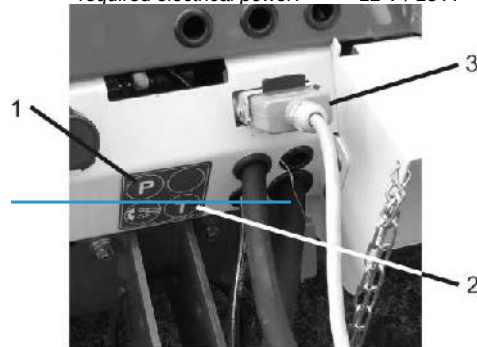


Fig. 5.6.1-1

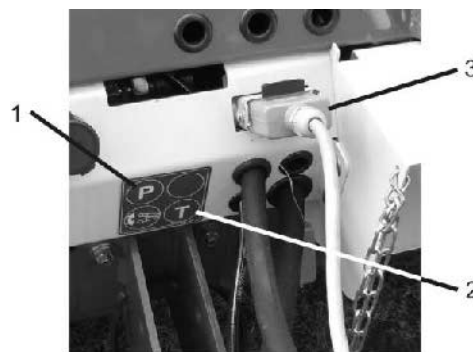


Fig. 5.6.1-1

The remote control supplied with the machine, which is held in place in the driver's cab by the holder provided, allows the machine to be operated using only two hydraulic lines and one additional electrical connection.

Formatierte Tabelle



If the tractor has no connection for the electrical system, an optional additional cable with socket can be acquired from the **AMAZONE** spare parts portal.
If the plug for the power supply needs to be replaced, care should be taken to ensure that the brown cable is used as the supply cable (+).

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Explanation of the remote control (Fig. 5.6.1-2):

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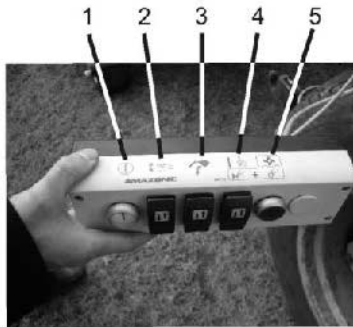


Fig. 5.6.1-2

- 1- On/Off switch
- 2- Raise and lower the drawbar
- 3- Raise and lower the hopper
- 4- Extend and retract the rear hydraulic cylinders
- 4+5- Machine in float position when both switches are operated simultaneously

Float position means that the mower takes control of ground tracking, with the rear wheels only providing a support function while for the most part equalising differences in ground level between the right and left hand side wheels. The drawbar is also in float position.

As soon as another switch is operated, the float position is automatically switched off. The machine's hydraulic system shifts into transport mode.

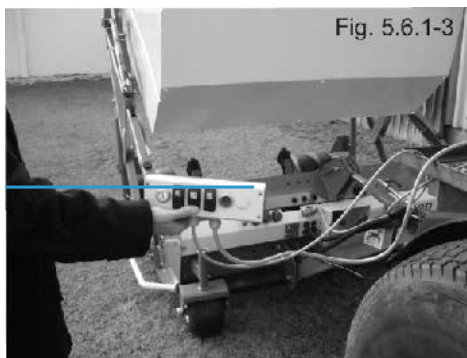


Fig. 5.6.1-3



Attaching and detaching the machine to/from the tractor

If a switch is released during operation, the hydraulic block is locked and the machine remains in the exact position it is in at the time.

Float position means that the mower takes control of ground tracking, with the rear wheels only providing a support function while for the most part equalising differences in ground level between the right and left-hand side wheels. The drawbar is also in float position.

As soon as another switch is operated, the float position is automatically switched off. The machine's hydraulic system shifts into transport mode.

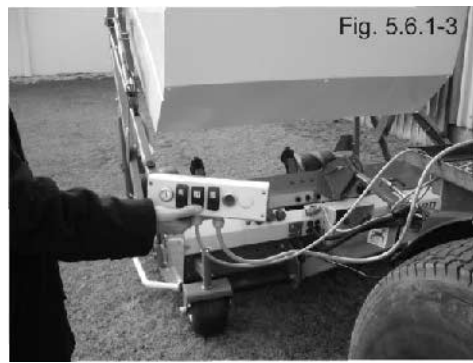


Fig. 5.6.1-3

If a switch is released during operation, the hydraulic block is locked and the machine remains in the exact position it is in at the time. During prolonged periods of downtime and/or if the unit is put away for the winter, it is recommended that the remote control should be stored in a dry and secure location and that the sealing cap on the electrical connection (Fig.5.6.1-1/3) should be firmly closed.



During prolonged periods of downtime and/or if the unit is put away for the winter, it is recommended that the remote control should be stored in a dry and secure location and that the sealing cap on the electrical connection (Fig.5.6.1-1/3) should be firmly closed.

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7.6.35.6.2 Standard hydraulic system

Connection 1 and 2: Double-acting control unit
Operates the emptying function of the hopper

Connection 3 and 4: Double-acting control unit
Operates the rear running gear

Connection 5: Single-acting control unit
Operates the drawbar

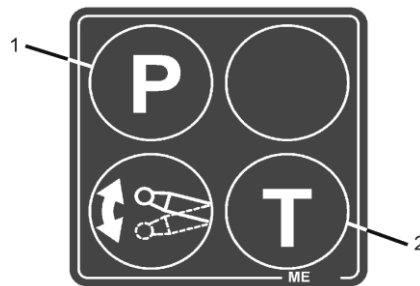


Fig. 5.6.1



Fig. 5.6.2-2

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86 The mower unit

The Groundkeeper has a flail-type mower unit. This involves free-moving cutting tools which are suspended on a large-diameter tube. When the rotor starts to turn, the cutting and scarifying blades are erected by centrifugal force, which allows them to reach into the grass which is to be cut and mow it off. The blades are made of special steel and suspended in four rows around the rotor from so-called clip bolts

8.16.1 Fitting the mowing and scarifying tools

There are 5 different tool arrangements as shown in table 11.

If the mowing blades (tab. 11, A) or scarifying blades (tab. 11, B) have been worn out on one side only, they can be turned round and used again. This is possible because both the front side and the rear side of the blades have been provided with a cutting edge.

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The blades can be turned or replaced without the use of tools (Fig. 6.1-1).



Care must be taken to ensure that the rotor is evenly fitted with blades. If cutting tools are missing or have been incorrectly fitted, an imbalance is created which, over time, will lead to the whole machine being damaged.

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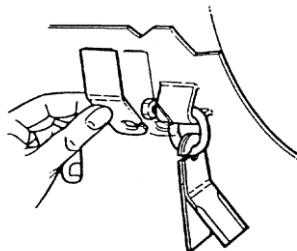


Fig. 6.1-1

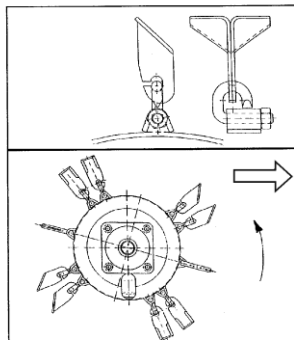


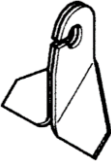
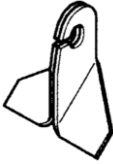
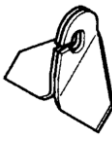
Fig. 6.1-2

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	50 %	100 %	100 %	50 %	100 %	100 %
	Mowing blade	Scarifying blade (2 mm)	Scarifying blade (3 mm)	Wing blade, long, H77 ground	Wing blade, long, H77 ground sharpened	Wing blade, long, H60 ground
	Piece	Piece	Piece	Pair	Pair	Pair
Working width 1.50 m	82 pcs.	83 pcs.	83 pcs.	42 pairs	83 pairs	83 pairs
Working width 1.80 m	100 pcs.	100 pcs.	100 pcs.	50 pairs	100 pairs	100 pairs

Wear limit of suspended tools:

The blade fasteners and clip bolts must be checked regularly for wear. Heavily worn tools must be promptly replaced.

Figs. 6.1-3 and 6.1-4 show the limits of wear for the mounting brackets.

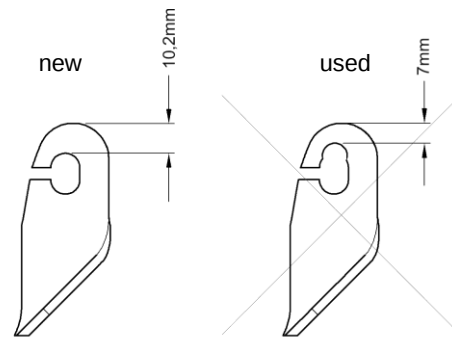


Fig. 6.1-3

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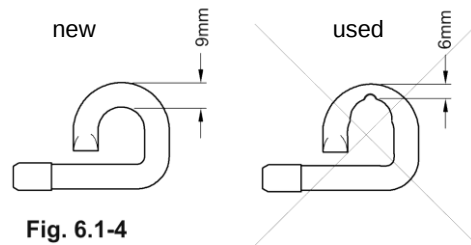


Fig. 6.1-4



CAUTION

- The blades and the blade fasteners must be checked before the start of every run.
- All screw unions must be firmly tightened.

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Rechtschreibung und Grammatik prüfen

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The mower unit

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Blade overview					
Blade replacement without tools		100% Cutting blade	50% Cutting blades + 50% Wing cutting blades long H77	100% Wing cutting blades long H77	100% Wing cutting blades extralong H88
Flower residue and environmental sites (biotopes, annual moving, fallow land)	Dry conditions	● ● ●	● ● ●	● ●	
	Wet conditions	● ● ●	● ● ●	● ● ●	
Mowing lawns, parks	Dry conditions		● ● ●	● ●	
	Wet conditions		● ● ●	● ● ●	
Mowing fairways, lawns and sports fields	Dry conditions		● ●	● ● ●	● ●
	Wet conditions		● ●	● ● ●	● ● ●
Fine cutting and grass grooming					
Cleaning of horse paddocks					
Leaf collection	Dry conditions		● ●	● ●	
	Wet conditions		● ●		
Scarifying and collecting in one single pass					
Scarifying fairways, sports fields or turf					

● ● ● Very good result ● ● Good result

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The mower unit

Formatiert: Schriftart: Fett

						
100% Scarfing blade	100% Cutting blades and scarfing blades combined*	50% Cutting blades and scarfing blades combined* + 50% Wing cutting blades long H77 and scarfing blades combined*	100% Wing cutting blade, H60 and scarfing blades combined*	100% Wing cutting blade long H77 and scarfing blades combined *	Scarfing blade for combination*	
					2mm	3mm
						✓
						✓
						✓
						✓
					✓	
					✓	
					✓	
						✓
						✓
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						✓
					✓	

 Very good result  Good result

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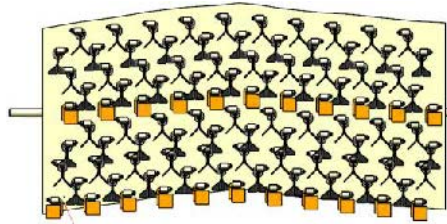
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The mower unit

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The figure shows the standard equipment with cutting blades and flail blades H77.



Caution:

When you intend to work on the rotor with the hopper raised, make sure that the rotor is stationary and fit the safety support on the hopper.

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The rotor is accessed in the following manner:

- Attach the machine to a tractor.
- Fully raise the hopper.
- Fit the safety support on the upper right-hand lifting cylinder of the hopper (Fig. 6.1-6).
- Turn off the tractor engine.
- Fold up the intermediate hood (Fig. 6.1-7).



Fig. 6.1-6

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8.26.2 Mowing

The cutting tools described above are used for mowing or scarifying. The working speed depends on the density and wetness of the turf. It must be adjusted to suit the conditions. The maximum PTO shaft speed of 540 rpm must be observed. The hopper must be emptied in good time to ensure tidy collection.

The hopper is fitted with an indicator which shows whether the hopper needs to be emptied (Fig. 6.2).

While the indicator is in the lower position, cuttings can continue to be collected. When the pointer starts to approach or has reached the upper position, the hopper must be emptied. The sensitivity of the indicator is dependent on the type of the cuttings.





8.36.3 Scarifying

Scarifying is usually carried out at the start or end of vegetation growth.

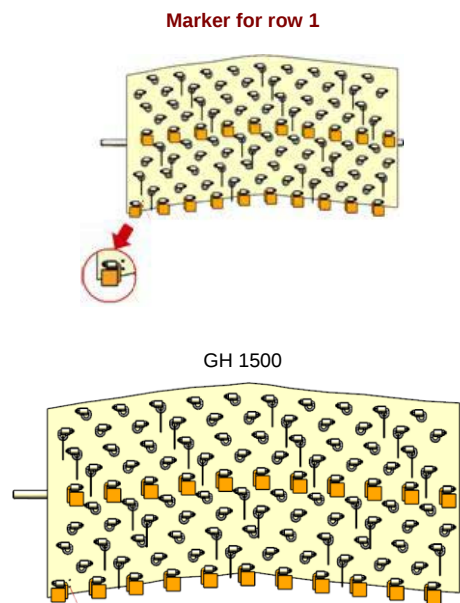
It is possible to clean and aerate turf containing thatch and moss by simultaneously mowing, scarifying and collecting in one operation.

To achieve this, straight scarifying blades are fitted between the pairs of curved mowing blades. If the turf has already been cut short, only the straight blades are fitted. The combination of mowing and scarifying blades produces the best suction effect. Therefore, a combination of mowing and scarifying blades should be used for wet and difficult conditions.

- **Wide scarifying, blade spacing 51 mm**

In this case, 3 mm or 2 mm wide scarifying blades are mounted on the rotor (drawing A).

This allows the working depth to be increased without engaging too aggressively with the turf.



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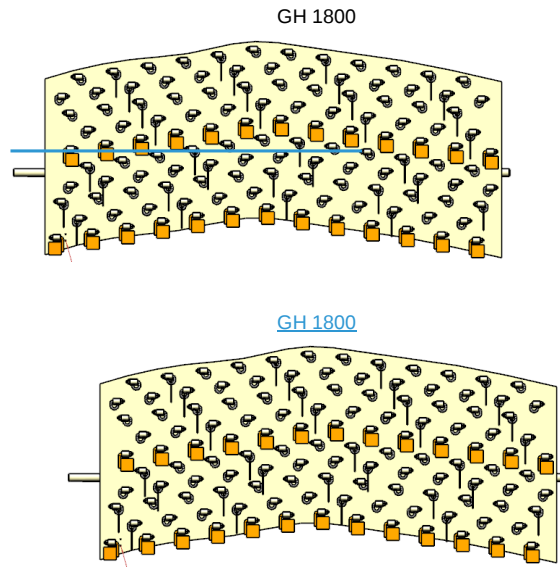


The mower unit

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- **Narrow scarifying, blade spacing 17 mm**

Scarifying blades must be attached to all clip bolts on the rotor.

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This type of scarifying is relatively aggressive and is suitable for restorative work on heavily thatched turf (moss) in the spring.



CAUTION

1. It must be ensured that the rotor is equipped with one of the above blade arrangements. If cutting tools are missing or have been incorrectly fitted, an imbalance is created which, over time, will lead to the whole machine being damaged.
2. Only one type of scarifying blade may be used! Risk of imbalance.
3. When scarifying produces a high proportion of soil content, only fill the hopper to approximately half way, otherwise there is a risk that the tractor and the machine frame will be overstressed when driving with a full hopper.
4. Similarly, the tractor must also be driven with due care across uneven terrain when the hopper is full and the machine is raised, otherwise the frame may be damaged.

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The mower unit

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5. When the hopper is full the machine must always be lowered slowly. The machine may be damaged if the rear cage roller strikes against stones or fixed edges.

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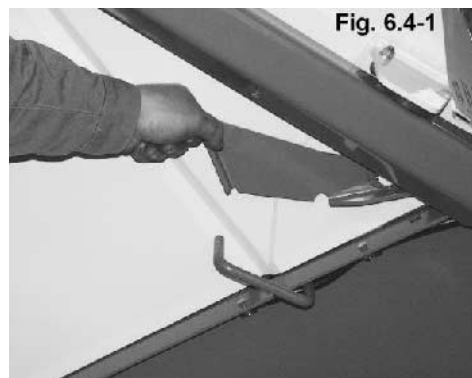
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8.46.4 Mulching

If the mowing material is only to be cut off, chopped to smaller pieces and deposited back on the ground, the flap which is normally used to guard the rotor when the hopper is raised can also remain closed during mowing.

To set the flap, the operating lever is swung upwards (Fig. 6.4-1) and secured in the locking slot provided (Fig. 6.4-2). The mulch flap is reset to its normal position when the hopper is raised or lowered.



The machine should always be raised and lowered evenly, i.e. care should be taken to keep the machine as level as possible in every lifting position. If the machine is raised too much on one side only, whether at the front or rear, damage may be caused to the PTO shaft, if the machine is still running.

When the machine is in the working position, the hydraulic lines for the height-adjustable guide wheels must be unpressurised. Otherwise, on uneven terrain, the cage roller may be raised off the ground unintentionally and, as a result, the cutting height will be uneven.

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The mower unit

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8.56.5 Collecting

Because of the strong suction effect produced by the rotor, the machine can also be used for collecting material which has already been mowed or any other material lying loose on the ground. The material is then lifted up by air suction, chopped to smaller pieces by the rotating blades and conveyed through the chute to the hopper.

8.66.6 Emptying the hopper

The machine is first raised at the front via the drawbar and at the rear via the lifting unit. The hopper is then tipped backwards about its swivel axles by the cylinders mounted at the side. When unloading on a slope, the machine must not be positioned across the slope, in order to prevent the tractor and machine from tipping over.



Drive with great care if the hopper is raised.

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The closing procedure for the hopper should take at least 8 seconds. It is possible to adjust this lowering speed using the integrated check valve (only on double acting cylinders) (Fig. 6.6-1 and 6.6-2).



Fig. 6.6-1

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The mower unit

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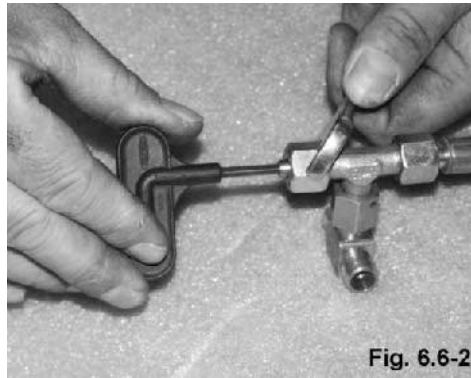


Fig. 6.6-2

8.76.7 Transport on public roads

When travelling on the road, the machine must be raised to the required height using the rear guide wheels' hydraulic system and the drawbar. The machine must always be in a level position (Fig. 6.7-1).

Formatierte Tabelle



The weight of the machine (especially if the hopper is full) should not be underestimated, particularly on tractors with a low kerb weight

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Fig. 6.7-1

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97 Adjusting the cutting height

The height of the guide wheels is adjusted by removing and repositioning the distance sleeves (Fig. 7-1). To adjust the wheels, it is necessary to raise the machine using the drawbar. The guide wheel retractor must be removed and the sleeves positioned according to the required working height. Then hook the guide wheel retractor back in and secure.

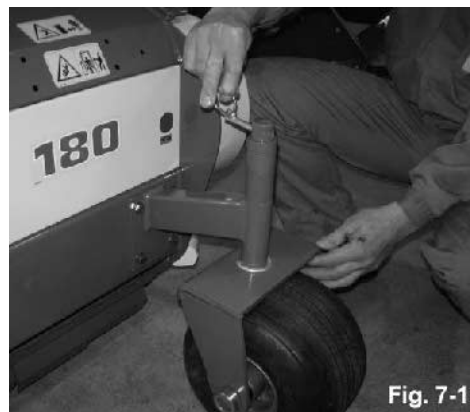


Fig. 7-1

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The height of the rear cage roller is adjusted as follows:

3. Raise the machine,
4. Loosen the clamping screw (Fig. 7-2),

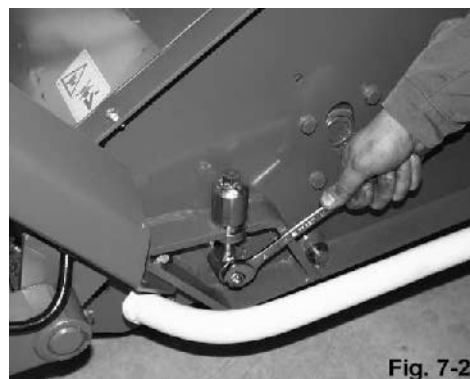


Fig. 7-2

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Adjusting the cutting height

5. Move the cage roller into the required position by turning the adjusting screws (Fig. 7-3).
6. Tighten the clamping screws.



Fig. 7-3

7. Care must be taken to ensure that the cage roller is equally adjusted on both sides. For this purpose, a check scale has been fitted (Fig. 7-4).

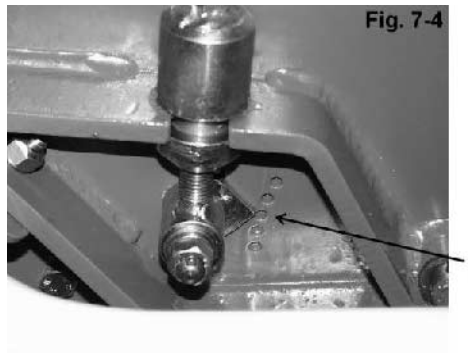


Fig. 7-4

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Adjusting the cutting height



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9.17.1 Front roller

A front roller is available as a special accessory for scarifying on uneven terrain. It is fitted into the holders of the front guide wheels (Fig. 7.1-1).

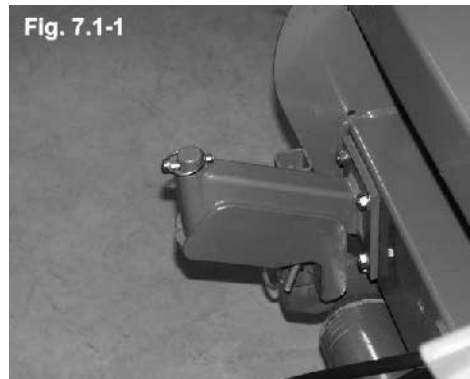


Fig. 7.1-1

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To adjust the height, the machine must first be raised and the lynch pin and the pin must be removed on both sides and the roller must be pegged in the required position. Then re-secure the pin with the lynch pin. (Fig. 7.1-2).



Fig. 7.1-2

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108 Cleaning the machine



IMPORTANT

Risk of machine damage due to cleaningjet of the high-pressure nozzle.

- Never aim the cleaning jet of high- pressure cleaners or hot water high- pressure cleaners on electrical or electronic components.
- Never aim the cleaning jet of the high pressure cleaner directly on lubrication points, bearings, rating plates, warning signs, and stickers.
- Always maintain a minimum distance of 300 mm between the high-pressure nozzle and the machine.
- Do not exceed a water pressure of 120 bar.

The machine can, on occasion, become heavily soiled, especially when mowing and scarifying wet grass which is also sometimes interspersed with earth. In such cases, it is recommended to clean the rotor and the hopper intensively with a jet of water.

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239 Maintenance

The Groundkeeper was designed to be largely maintenance free. The following points, however, should be observed and receive attention.

23.19.1 Oil level in the angular gearbox

The angular gearbox on the machine does not require lubrication servicing. However, the oil level should be checked annually. The inspection screw on the side of the gearbox must be opened (Fig. 9.1) in order to check whether the oil level reaches up to the lower edge of the bore hole. The gearbox must be filled with SAE 90 transmission oil (capacity 0.45 l), if required.



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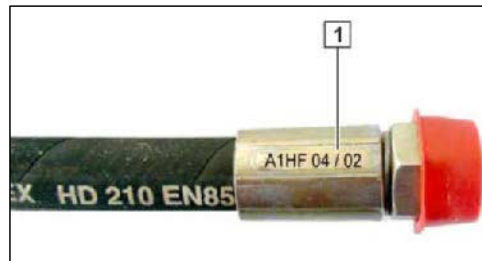
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23.29.2 Checking the hydraulic hose lines

Interval:

- After initial operation
 - Every 50 operating hours or weekly
8. Check the hydraulic hose lines for damage, such as chafing point, cuts, tears and deformation.
 9. Check the hydraulic hose lines for leaks.
 10. Check the manufacturing date (1).



NOTE

Hydraulic hose lines must not be more than 6 years old.

11. Have any worn, damaged or aged hydraulic hose lines immediately replaced at a specialist workshop.
12. Retighten loose bolted connections.

23.39.3 Lubrication points

Depending on the intensity of work, the following areas should be regularly lubricated with multipurpose grease:

- Hopper hinges (Fig. 9.2-1).
- Guide wheel fork bearing (Fig. 9.2-1).
- Rotor bearings (the V-belt protection on the left-hand side of the machine must be removed beforehand (WAF 13) (Fig. 9.2-2, 9.2-3),
- Rear cage roller bearing (Fig. 9.2-4).
- PTO shaft.
- Cage roller bearings (Fig. 9.2-5)
- Transport frame pivot point (Fig. 9.2-6)

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Fig. 9.2-1



Fig. 9.2-2



Fig. 9.2-3

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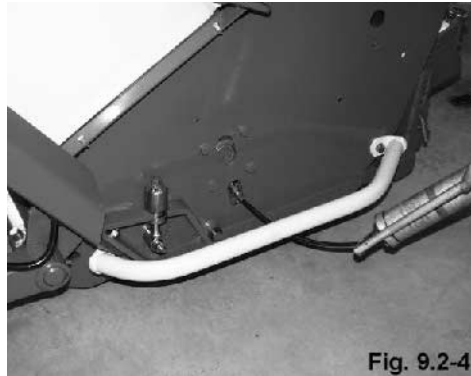


Fig. 9.2-4

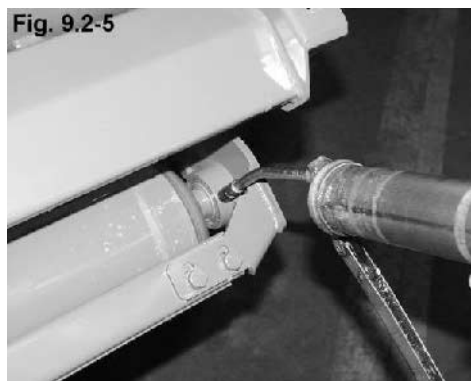


Fig. 9.2-5

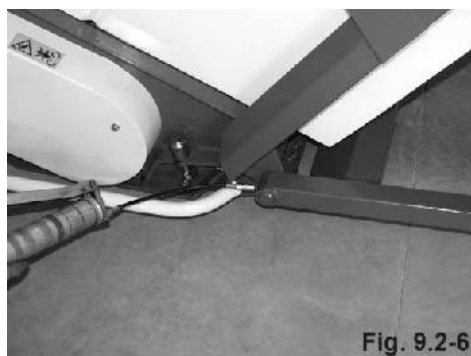


Fig. 9.2-6

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23-49.4 Extended periods of downtime

If the machine is not to be used for a prolonged period, it is recommended that, before storing, it should be cleaned and protected using a suitable preservative product. Before re-commissioning, an authorised garage should check that the overload clutch between the angular gearbox and the belt drive is operating correctly.

23-59.5 Tyre pressure

Front guide wheels: 2 bar

Rear wheels: 2 bar

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When removing or fitting tyres, the tyres must always be fully deflated (a split tyre wall can fly apart with explosive force during removal).

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Maintenance

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Groundkeeper GHD SMARTCUT_BAF0007.4_06.22



Maintenance

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