

Operating and maintenance manual

AMAZONE

PROFIHOPPER

PH-1250 zDrive

PH-1250 iDrive

PH-1250 4WDi



MG5087
BAF0012.15 12.23
Printed in France

**Read and observe this
operating manual before putting
the equipment into operation
for the first time!
Keep in a safe place for future
reference!**

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 very 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. Stark.



Identification data

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

Machine identification number:
(ten-digit)

Type:

PROFIHOPPER

Year of manufacture:

Empty 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

Document number: MG5087

Compilation date: 12.23

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Other applicable documents

Component designation	Document designation
Diesel engine	Operating manual
Weatherproof tarpaulin	Installation instructions



Foreword

Foreword

Dear Customer,

You have chosen one of the quality products from our wide range of AMAZONE agricultural machinery. 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.

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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1 User information

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

1.1 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.

1.2 Locations in the operating manual

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

1.3 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

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)

- Figure 3
- Item 6



2 General safety instructions

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

2.1 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" (page 18) 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).



General safety instructions

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.

2.2 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:



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.



CAUTION

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



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.



NOTE

Indicates handling tips and particularly useful information.

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



2.3 Organisational measures

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

- Hearing protection
- 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.

Check all the available safety equipment regularly.

2.4 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.

2.5 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.



2.6 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.

2.7 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.

2.8 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.

2.9 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.

2.10 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.



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.



2.10.1 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.

2.11 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.

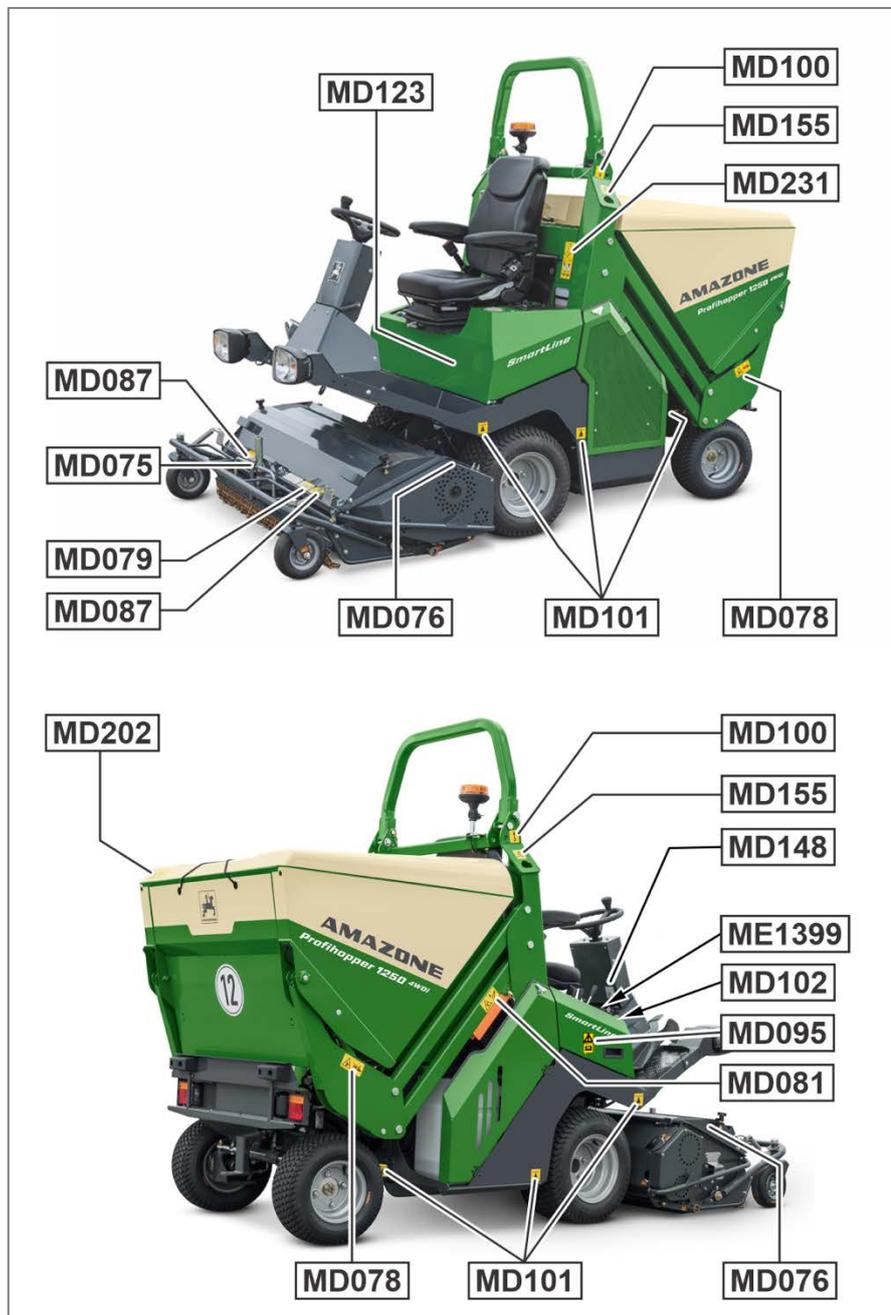
2.12 User workstation

The machine may be operated by only one person sitting in the driver's seat.

2.13 Warning symbols and other signs on the machine

2.13.1 Positioning of warning symbols and other labels

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

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:



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.

Order number and explanation

Warning symbols

MD 075**Risk of fingers and hands being cut or severed by rotating machine parts.**

This hazard can cause extremely serious injuries with the loss of body parts such as fingers or hands.

Never reach into the danger area when the tractor engine is running with the PTO shaft/hydraulic system connected.

Do not touch machine parts until they have come to a complete standstill.

**MD 076****Risk of hands or arms being drawn in or caught by power-driven, unprotected chain or belt drives.**

This hazard can cause extremely serious injuries, including loss of parts of the body from hands or arms.

Never open or remove protective equipment from chains or belt drives,

- while the tractor engine is running and the PTO shaft is connected/hydraulic drive is engaged
- or the ground wheel drive is in motion

**MD 078****Risk of fingers or hands being crushed by accessible moving machine parts.**

This hazard can cause extremely serious injuries with the loss of body parts such as fingers or hands.

Never reach into the danger area when the tractor engine is running with the PTO shaft/hydraulic system connected.

**MD 079****Hazard from materials or foreign objects that are thrown from or ejected by the machine.**

This hazard can cause extremely serious injuries to any part of the body.

Ensure that persons not involved in the operation of the machine maintain a sufficient safety distance from the danger area created by the machine while the tractor engine is running.



General safety instructions

MD 081

Risk of any part of the body being crushed by machine parts descending unintentionally, having been raised via the lifting cylinder.

This hazard can cause extremely serious injuries anywhere on the body, or even death.

If machine parts have been raised, secure the lifting cylinder against lowering unintentionally, before entering the danger area beneath the raised machine parts.

To do this, use the mechanical lifting cylinder support or the hydraulic locking device.



MD 083

Risk of arms or upper body being caught or drawn in by unprotected, moving machine parts.

This can cause severe injury to the arm or upper body.

Never open or remove guard devices from moving machine parts while the tractor engine is running with the PTO shaft connected/hydraulic drive engaged.



MD 087

Risk of toes or feet being cut or severed by power-driven tools.

This hazard can cause serious injuries, including loss of parts of the body from toes or feet.

Maintain a sufficient safety distance from the danger area while the tractor engine is running and the PTO shaft/hydraulic system is connected.



MD 095

Read and understand the operating manual safety information before starting up the machine!



MD 096**Danger of infection to the whole body from liquids escaping at a high pressure (hydraulic fluid)!**

This danger will cause serious injuries over the whole body, if hydraulic fluid escaping at high pressure passes through the skin and into the body.

Never attempt to plug leaks in hydraulic lines using your hand or fingers.

Read and understand the information in the operating manual before carrying out maintenance and repair work.

If you are injured by hydraulic fluid, contact a doctor immediately.

**MD 100**

This symbol indicates lashing points for fastening slinging gear when loading the machine.

**MD 101**

This pictogram shows application points for lifting gear (jack).

**MD 102****Danger from unintentional machine starting and rolling during intervention in the machine, e.g. installation, adjusting, troubleshooting, cleaning, maintaining and repairing.**

This hazard can cause extremely serious injuries anywhere on the body, or even death.

- Secure the tractor and the machine against unintentional start-up and rolling before any intervention in the machine.
- Depending on the type of intervention, read and understand the information in the relevant sections of the operating manual.

**MD 114**

This symbol indicates a lubrication point



General safety instructions

MD 123

Combination label

see MD095, MD102, MD199, MD096



MD 148

The noise level (L_{WA}) is 105 dB.



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 182

Risk of burns from hot surfaces.

This can cause severe burns.

- Do not work on the machine until it has cooled down completely.



MD 199

The maximum operating pressure of the hydraulic system is 210 bar.



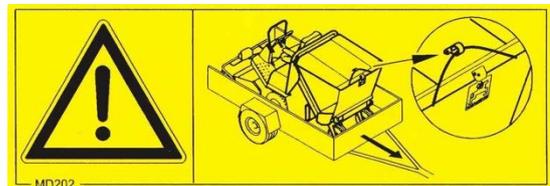
MD 202

Placing the transport safeguard

This danger can result in machine parts getting lost during transport and posing significant hazards for road traffic.

Danger of fatal injury in public road traffic!

- Prior to transporting the machine, on a trailer or on an open load surface, the locking mechanisms must be firmly closed via the rubber strap.
- Open the rubber element for work deployment



MD 231

Driving across the slope up to max. 16 %:

- Use roll-over protection
- Attach seat belt

To pass through low clearance height on level ground:

- Fold in roll-over protection
- Do not put on seat belt



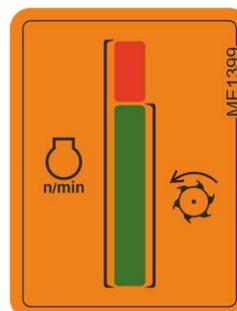
General safety instructions

ME1399

Identifies the optimum range of the engine speed for starting the cutting deck.

The cutting deck can only be started at engine speeds below 2500 rpm.

This protects the electromagnetic cutting deck drive coupling.



2.14 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.

2.15 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.



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, always check it is safe to drive and operate.

2.16.1 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!
- Drive carefully so that you are always in control of the machine.
Always take your own driving ability, the road, traffic, visibility and weather conditions, and the driving characteristics of the machine into account.

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!
- Do not exceed the maximum machine load and the permitted loads on the axles and drawbars. If necessary, drive only with a partially-filled hopper.
- It is forbidden to stand in the working area of the machine (see section 3.7).
- 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 machine against unintentional start-up and rolling before you leave it.
For this:
 - Apply the parking brake
 - Switch off the engine
 - Remove the ignition key



Machine transportation

- When using public highways, national road traffic regulations must be observed.
- Before moving off, check:
 - the lighting system for damage, function and cleanliness
 - the brake and hydraulic system for visible damage
 - that the parking brake is released completely
- Ensure that the machine has sufficient steering and braking power.
- Check the brake power before moving off.
- When driving around corners, allow for the wide overhang and the centrifugal mass of the machine.
- Before moving off, move all the swivel machine parts to the transport position.
- Check that the transport equipment, e.g. lighting, warning equipment and protective equipment, is correctly mounted on the machine.
- Adjust your driving speed to the prevailing conditions.

2.16.2 Hydraulic system

- The hydraulic system is under a high pressure.
- Ensure that the hydraulic hose lines are connected correctly.
- Make sure the hydraulic system is not pressurised when connecting hydraulic hose lines.
- It is forbidden to block the operator controls 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
 - Switch off all machine parts
 - Depressurise the hydraulic system
 - Switch off the 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.

2.16.3 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.



2.16.4 Safety check before moving off



DANGER

Check the function and safety of the following safety-relevant components each time before you move off:

- **Tyre pressure and tread condition**
- **Seat switch operation**
- **Oil and hydraulic lines for leaks and/or porosity**
- **Blade and blade mounts for loose screws and severe wear**
- **Check safety devices for loose screws or mounts**
- **Hopper lid must be closed**
- **Check mulcher flap is in place**
- **The mower unit must switch off, as soon as the hopper is raised**

3 General description of the machine

3.1 Areas of application

The AMAZONE Profihopper 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.

3.2 Declaration of conformity

The Profihopper conforms to the EC Machinery Directive 2006/42/EC and the relevant amendments

3.3 Details required for enquiries



Please always specify the **machine number** when ordering special optional equipment and spare parts, or when making technical enquiries.

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.

3.4 Rating plate and CE marking

The rating plate shows:

- Vehicle- / machine ID no.
- Product
- Basic weight (kg)
- Permissible front axle supported weight (kg)
- Permissible rear axle load (kg)
- Permissible system pressure (bar)
- Permissible maximum weight (kg)
- Factory
- Model year



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



3.5 Technical data

Type PROFIHOPPER	PH 1250 zDrive	PH 1250 iDrive	PH 1250 4WDi
Drive system	Hydrostatic, front wheel drive, 2 hydro motors and 2 hydraulic pumps		Hydrostatic, front wheel drive, 4 hydro motors and 2 hydraulic pumps
Steering system	Lever steering; Zero-Turn	Steering wheel; 0 turning radius	
Basic weight with cutting deck	1050 kg	1175 kg	
Permissible total weight	1600 kg	1600 kg	
Tyres	Front:	20 x 10.00-10 6PR 20 x 12.00-10 4PR	
	Rear:	15 x 6.00-6 4PR KEV-LAR	16 x 6.50-8 6PR 16 x 6.50-8 4PR KEV-LAR
Forward speed (infinitely variable regulation)	Forwards/reverse: 0 – 12 km/h	Forwards: 0 - 12 km/h / Reverse: 0 - 6 km/h	
Motor	Kohler diesel, water-cooled, 3 cylinders, 1029 ccm, 18,8 kW (25.5 HP)		
Tank volume	40 litres diesel fuel		
Engine oil	3,4 litres	10W40 API-CF	
Hydraulic oil	15 litres	15 litres	18 litres
	10W40 API-CF		
Engine coolant	up to machine ID no. PH00053368	7 litres	SAE J814C, J1941, J1034, J2036
	as of machine ID no. PH00053369	6,3 litres	
Brake	Hydrostatic and parking brake		
Cutting deck control	Electromagnetic		
Dimensions with cutting deck	Length: 2.785 metres · Width: 1.482 metres · Height: 1.994 metres		
Mower unit	Hydraulic cutting deck lifting		
Working width	1.25 m		
SmartCut rotor	72 (36 pairs) flail knives, long H77 sharpened and/or 36 scarifying knives		
Working height	Infinitely adjustable		
Support wheels	8 x 3.00-4-4 PR		



Collection system	Cross and feed auger with overload safety Hydraulic high-lift tipping at 2.10 metres, Acoustic fill level indicator
Hopper volume	730 litres, condensed (corresponds to more than 1,000 litres of mowed material)

3.5.1 Noise production data

The emission value (noise level) applicable to the working area is:
LpA = 90 dB(A). Measurements were taken under working conditions close to the driver's ear. Noise level in accordance with Decree 2000/14/CE: LwA = 105 dB(A).



Comply with EC Noise-at-Work Directive (2003/10/EEC) and the German "Occupational Health and Safety Ordinance on Noise and Vibration"



DANGER:

The running drive motor and mower drive cause noise pollution. If there is excessive exposure, noise can permanently impair hearing.

Wear hearing protection!

Recommended hearing protection:

MOLDEX Comets® 6420

(Tested and approved in accordance with EN 352-2:2002)

3.5.2 Vibration data

- Hand-, Arm- and complete Body vibrations measured according to EN 12096:

(a) Levering machine :

left-hand side 2.18 m/s² (measurement accuracy 0,08 m/s²)
right-hand side 1.72 m/s² (measurement accuracy 0,11 m/s²)
complete body 0.34 m/s² (measurement accuracy 0,03 m/s²)

(b) Steering wheel machine:

left hand 0.88 m/s² (measurement accuracy 0,01 m/s²) ,
right hand 1.61 m/s² (measurement accuracy 0,12 m/s²)
complete body 0.33 m/s² (measurement accuracy 0,05 m/s²)



3.6 Intended use

The AMAZONE Profihopper can be used for the following operations:

- Mowing and scarifying of green spaces as well as sports fields and gardens.
- Picking up and chopping leaves.

It is not intended to be combined with other machines, implements and superstructures.

Limitations for use on slopes:

On slopes, the motor must be operated at full throttle (to prevent cavitation damage to the pump).

- (1) During operation with lowered cutting deck in float position
- (2) With raised cutting deck
- (3) Turning with raised cutting deck

	(1)	(2)	(3)
Across a slope	16% / 9°	16% / 9°	16% / 9°
Uphill / downhill	27% / 15°	18% / 10°	18% / 10°

On slopes, the motor must be operated at full throttle (to prevent

"Intended use" also covers:

- observing all of the instructions in this operating manual.
- execution of inspection and maintenance work.
- exclusive use of genuine AMAZONE spare parts.

Other uses to those specified above are forbidden and shall be considered as improper.

For any damage resulting from improper use

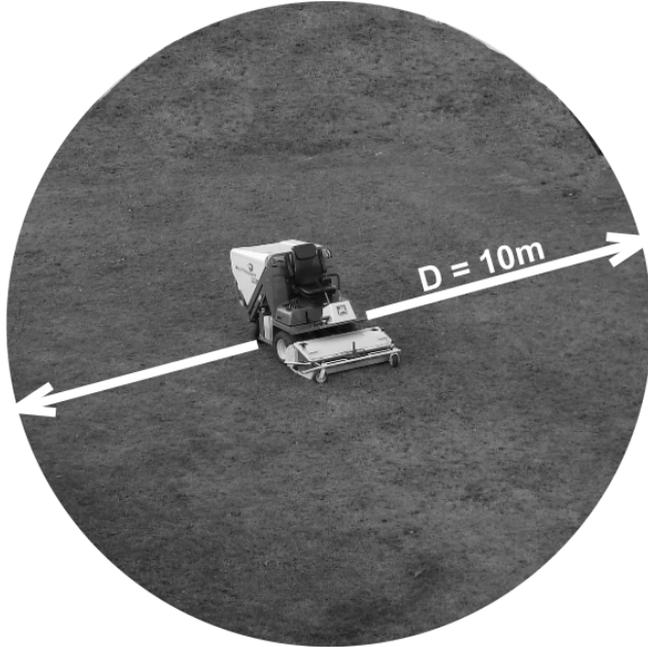
- the operator bears the sole responsibility,
- AMAZONEN-WERKE accepts no liability.



3.7 Safe distance

It is forbidden to stand in the working area of the machine.

The working area means a radius of 5 metres around the working machine.



4 Loading and transporting the implement

4.1 Loading

**WARNING**

Risk of accident due to the weatherproof tarpaulin becoming detached.

At high speeds, the weatherproof tarpaulin can become detached and fly away. This can result in injury or death.

Remove the weatherproof tarpaulin before loading the implement on a transport vehicle.

**CAUTION**

When manoeuvring, set the maximum engine speed.

Risk of accident due to the implement escaping and falling down.

Observe the maximum gradient of the ramps.

- On machines with weatherproof tarpaulin: Remove the weatherproof tarpaulin, see page 55.
- Completely empty the grass collector and lower it.
- Use anti-slip ramps with good grip.
- Drive the implement slowly and carefully onto the trailer or HGV.

Loading in reverse

- **With raised cutting deck:** drive onto ramps at a maximum gradient of 13° (23%).
- **With lowered cutting deck:** drive onto ramps at a maximum gradient of 16.70° (30%).

Loading forwards

- **With raised or lowered cutting deck:** drive onto ramps with maximum gradient of 16.70° (30%).

4.2 Transport

For transport on a trailer, the machine must be firmly lashed, the parking brake must be engaged and the motor switched off.



- Only attach lashing straps at the marked points.
- Secure the implement in accordance with the regulations to the transport vehicle.



Lash the machine on the transport vehicle as prescribed:

- Lash diagonally in accordance with DIN EN121951
- At least 4 lashing elements must be used!
- Only use lashing elements that are approved for public road traffic!

Minimum required lashing force Lc (Lashing capacity):

1000 daN

1. • Fire hazard! The machine must not be covered with a tarpaulin until the motor has completely cooled.
2. Fire hazard! After concluding mowing tasks, the hopper must always be completely emptied. Fermenting mowed material can auto-ignite under certain conditions due to the significant heat development.
3. Danger of damaging the drive system! Do not push the machine if the motor is switched off!



The fastening on the hood must be fixed tight!

Ensure that the cover of the hopper is adequately secured

CAUTION A strong headwind can cause the hood to break off!





5 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.

Any damage must be noted on the delivery note immediately in the presence of the driver.

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

6 Product description

6.1 Overview of the machine



- (1) Cutting deck support wheel
- (2) Cutting deck
- (3) Front lighting
- (4) Steering wheel
- (5) Driver's seat
- (6) LED warning beacon
- (7) Weatherproof tarpaulin

- (8) Roll-over protection
- (9) Grass collector
- (10) Rear wheels, steerable
- (11) Front wheels
- (12) Rear lights
- (13) Socket

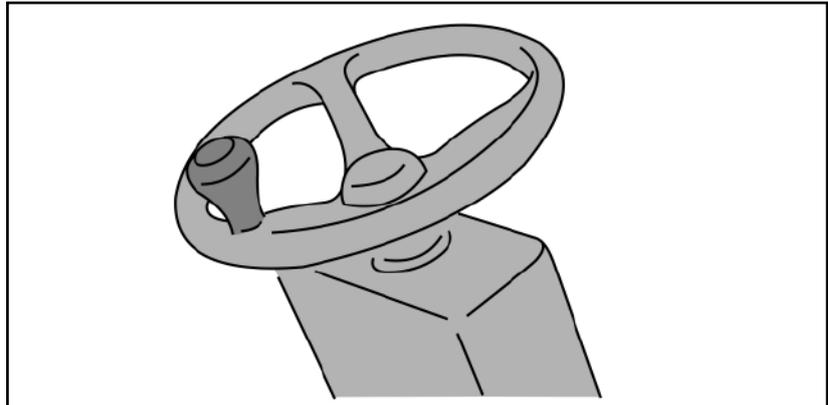
6.2 Control panel and operating elements

6.2.1 Steering

The machine is steered by the front wheels under the driver's seat.

Steering wheel

The steering wheel with steering knob enable comfortable on-handed steering.



Lever steering

(1) Two-part steering lever

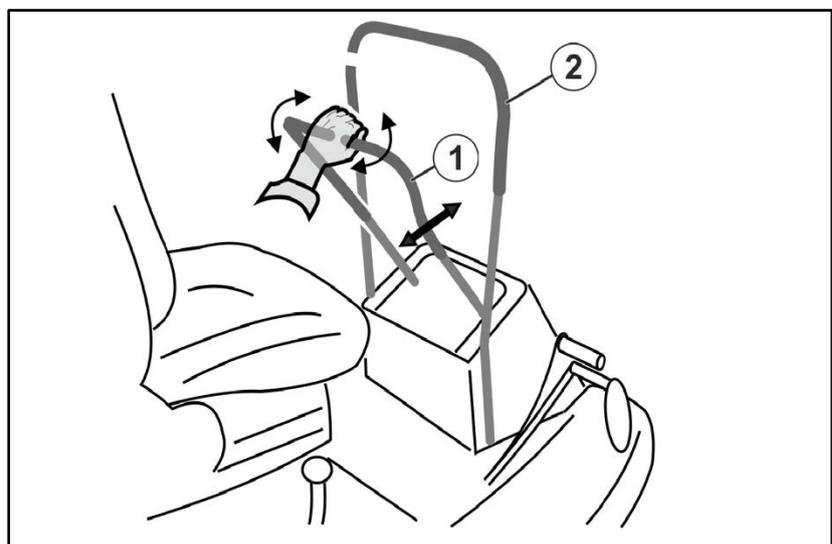
To change the direction to the left, pull the left lever to the rear. To change the direction to the right, pull the right lever to the rear.

To better manage the steering system, operate both levers with one hand.

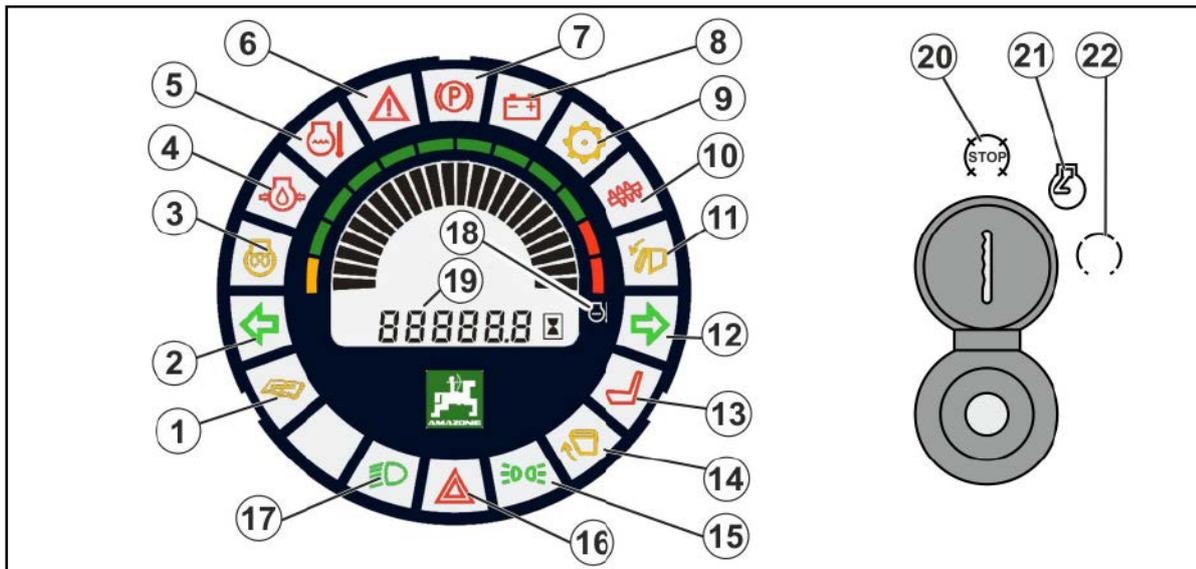
When changing the forward speed, the steering levers are moved parallel in the direction of travel.

(2) Holding rail

The holding rail makes it easier to climb on and off the machine, and serves to protect the driver in critical driving situations



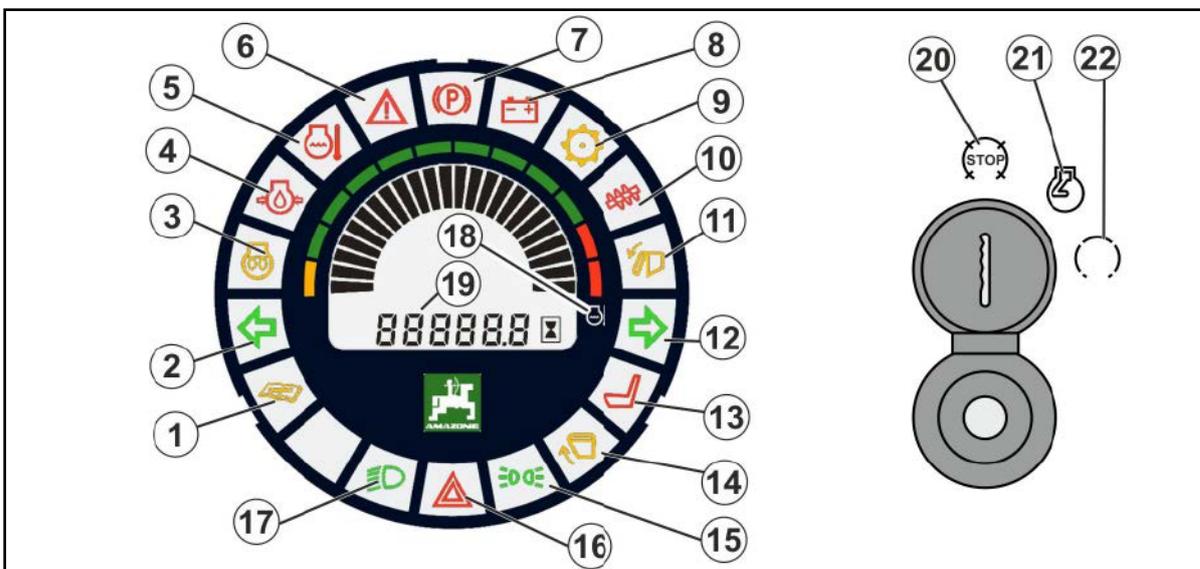
6.2.2 Control panel



- (1) Maintenance required (after 50 hours and every 125 hours)
- (2) Turn signal
- (3) Pre-heating indicator of the diesel engine
- (4) Oil pressure control lamp
 - When the lamp lights up, switch off the engine immediately and check the oil level, and refill oil if necessary. If the warning lamp is not turned off when the engine is started again, switch off the engine and contact your service partner.
- (5) Cooling water overheating display
 - When the lamp lights up, the cutting deck is automatically switched off!
 - Allow the engine to cool down for approx. 5 minutes at idle. If the temperature rises again, the engine is automatically switched off.
 - Check the coolant level and refill if necessary. Check the guard screen and radiator for contamination and clean if necessary. If the warning lamp is not turned off when the engine is started again or if the engine overheats again, contact your service partner.
- (6) Warning indicator
 - Flashes when the implement is in a safety-critical state.
- (7) Parking brake control lamp
 - The control lamp is turned off when the parking brake is released.
- (8) Battery charge control
 - If the control lamp is not turned off after the engine is started, check the charging procedure (the control lamp might only be turned off when the engine speed increases slightly).
- (9) Mower unit control
 - Indicates whether the cutting deck is switched on.
- (10) Function check of the collection system

- When lighting up, the cutting deck is automatically switched off, because the feed auger is no longer rotating (e.g. blockage due to foreign objects).
- (11) Hopper fill level
 - Flashes when the hopper is full.
- (12) Turn signal
- (13) Seat contact switch defective
- (14) Hopper position control lamp
 - Light off → Hopper in working position
 - Light on → Hopper is lifted or in emptying position

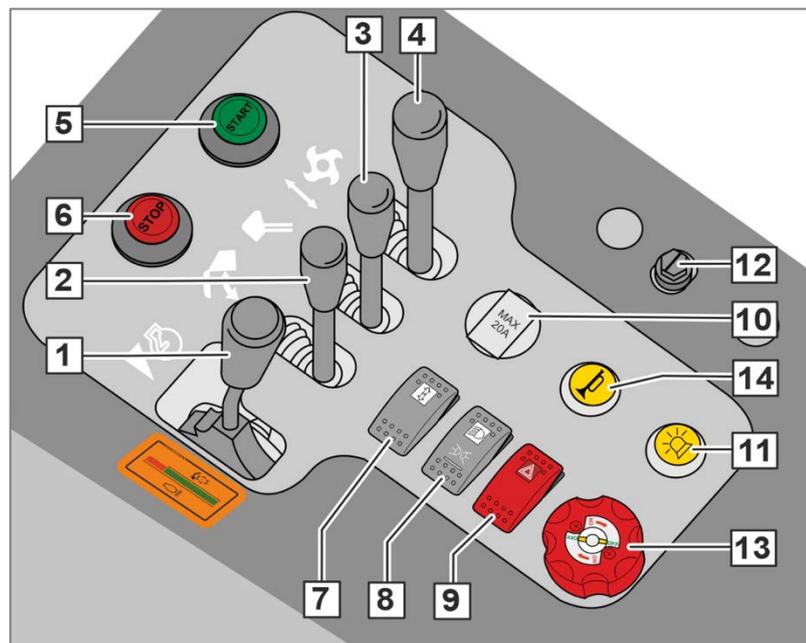
A safety switch stops the engine when the hopper is accidentally raised during operation. The hopper must then be moved to working position, the engine restarted and the mower unit switched on again.
- (15) Parking lights
- (16) Warning flasher
- (17) Dipped beam
- (18) Cooling water temperature display
 - Green light = Cooling water temperature is normal
 - Red flashing light = Motor is overheating.
- (19) Operating hours counter
- (20) Ignition key position: Engine off
- (21) Ignition key position: Pre-heating
- (22) Ignition key position: Start



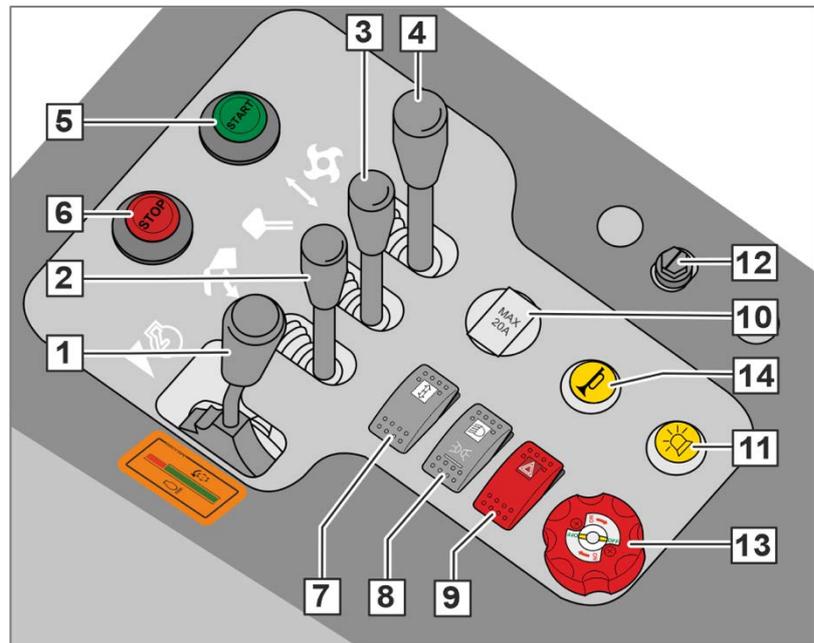
Caution, power consumption.

If the engine is not started after 8 seconds when the ignition is switched on, an acoustic signal sounds.

6.2.3 Control elements



- (1) Engine speed setting lever
 - To start and stop the engine, set a low engine speed.
 - During operation, set the maximum engine speed.
- (2) Emptying the hopper
 - To empty the hopper, pull the lever to the rear, and to move it into working position, push the lever to the front.
- (3) Lifting / lowering the hopper
 - To lift the hopper, pull the lever to the rear, and to lower it, push the lever to the front.
- (4) Cutting deck: lifting / lowering / locking the float position
 - Lifting the cutting deck → Pull the lever to the rear.
 - Lowering the cutting deck → Push the lever to the front.
 - Locking the cutting deck at the bottom in float position → The cutting deck can then adapt to ground undulations.
- (5) Switching on the cutting deck
 - To start running the cutting deck more smoothly, select a moderate engine speed in the green range on the sticker beside the setting lever (1).
 - Briefly press on the start switch (5) to start the cutting deck.
 - Wait until the cutting deck is fully running.
 - The engine speed may only be increased when the cutting deck has completely run up to speed.
 - This switch is deactivated when the hopper is lifted.



- (6) Switching off the cutting deck
- (7) Turn signal left / right (optional)
- (8) Driving light (optional)
- (9) Warning flasher (optional)
- (10) Socket (12V / maximum 20 A)
- (11) Warning beacon (optional)
- (12) Hood locking mechanism

The hood is locked mechanically and is only opened with the aid of the ignition key.

For this purpose, place the head of the key on the slotted screwdriver and turn to the right by less than 45°. The mechanical lock is therefore open and the seat support can be opened upwards using the handle.

→ Only open the hood when the engine is switched off.

- (13) Battery disconnecter (optional)

→ Protects the battery against discharging during longer periods of standstill and against short circuits.

→ It can be used to stop the machine in case of emergencies.

- (14) Horn



CAUTION

Drive very carefully when the hopper is raised. Risk of tipping!

6.2.4 Accelerator pedal and parking brake

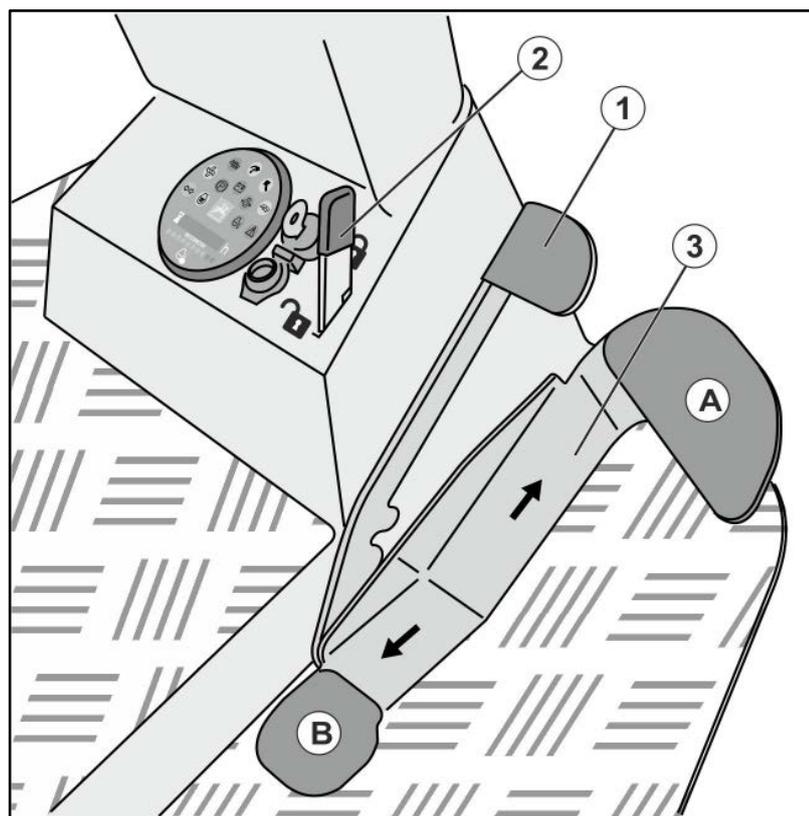


WARNING

- Risk of accident when the accelerator pedal is abruptly actuated!
- Risk of accident when the actuation is abruptly released (rapidly removing the foot from the pedal / pushing the pedal in the opposite direction).

Abrupt actuation of the accelerator pedal causes strong acceleration of the machine or sudden standstill.

Familiarise yourself with the driving behaviour of the machine in an open area and at moderate speeds. Risk of accident!



- (1) Parking brake pedal
- (2) Parking brake locking mechanism
- (3) Accelerator pedal



The accelerator pedal is used to accelerate and decelerate the machine.

Accelerator pedal

The accelerator pedal is used to accelerate and decelerate the machine.

- Acceleration: carefully increase the pedal pressure.
- Deceleration: carefully decrease the pedal pressure.
- Rapid deceleration: take foot off the pedal.
- Maximum deceleration: press the pedal slightly in the opposite direction.

The accelerator pedal allows the forward and reverse driving speeds to be controlled continuously.

Forward drive:

- to drive forwards, press the pedal forward (A).
- 0 to 12 km/h

Reverse drive:

- to drive in reverse, press the pedal to the rear.
- 0 to 6 km/h

To stop the machine, take your foot off the pedal. The pedal can also be pressed back a little to brake more quickly.

Parking brake

- When the parking brake is applied, the accelerator pedal is blocked.
- Thanks to an additional circuit, the driver can leave the driver's seat when the parking brake is applied and the cutting deck is switched off, without the engine switching itself off. This prevents constant restarting of the engine after leaving the seat.

This protects the engine, starter and battery.

Securing the parking brake:

Press the locking pedal downwards so that the accelerator pedal engages. Secure the parking brake with the hand lever of the locking mechanism.

Only let go of the locking pedal once the hand lever has been correctly engaged.

Releasing the parking brake:

To release the parking brake, press the brake pedal downwards and release the locking mechanism with the hand lever.



When the parking brake is released, the engine cannot be started.

When the parking brake is applied, the cutting deck cannot be started.

6.3 Roll-over protection

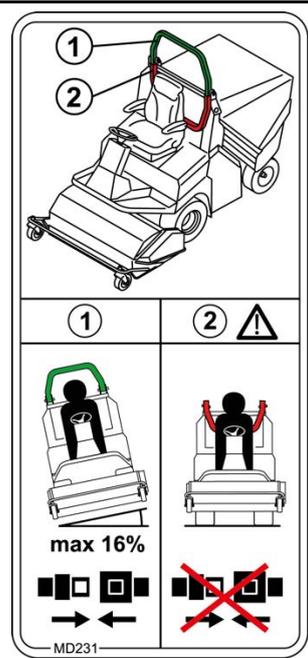


WARNING

Always use the roll-over protection when driving with the machine!

To pass under low clearance heights, the roll-over protection can be temporarily folded down.

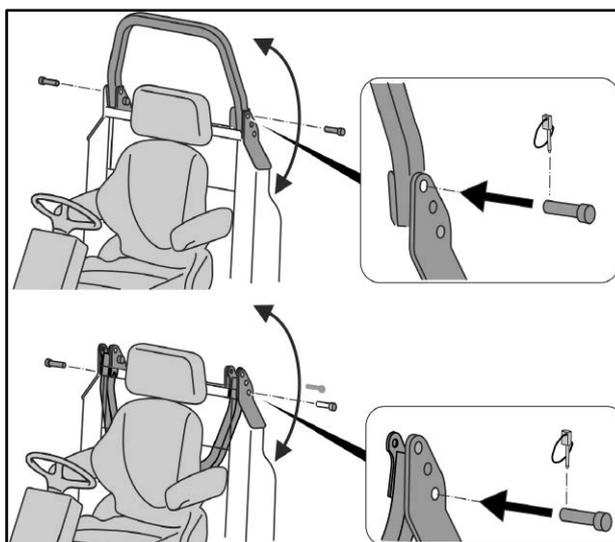
- In this case, do not put on the seat belt. This way, you can jump off in case the machine tips.
- This is only allowed on level ground.
- Fold the roll-over protection back up again immediately after passing the obstacle and fasten the seat belt.



On machines with weatherproof tarpaulin, the tarpaulin must be completely removed from the roll-over protection beforehand.

Putting the roll-over protection into operation / out of operation

1. Lift the catch and insert the safety supports.
2. Remove the positioning pins.
3. Fold the roll-over protection down / up.
4. Fix the roll-over protection with the pin and secure using the linch pin.
5. Fold in the safety support on the catch and put the catch back down again.



6.4 Drivers seat



CAUTION

The seat switch must be checked for proper function before each departure!

If there is a defect or delayed triggering time, the service partner must be contacted immediately!

6.4.1 Standard driver's seat

Back and forth

Turn the lever (1) to the left and move the seat to the desired position.

Adjusting the seat suspension

The seat has different suspension positions (2).

Soft suspension: Lift the lever and turn it to the right.

Hard suspension: Lift the lever and turn it to the left.

Safety belt

The seat is equipped with a safety belt. When the roll-over protection is upright, always wear a safety belt. Do not jump from a machine rolling over.

- o Insert both ends of the safety belt.
- o Tighten or loosen the safety belt until it is close enough on your body.
- o Press the red button on the buckle in order to release the safety belt.



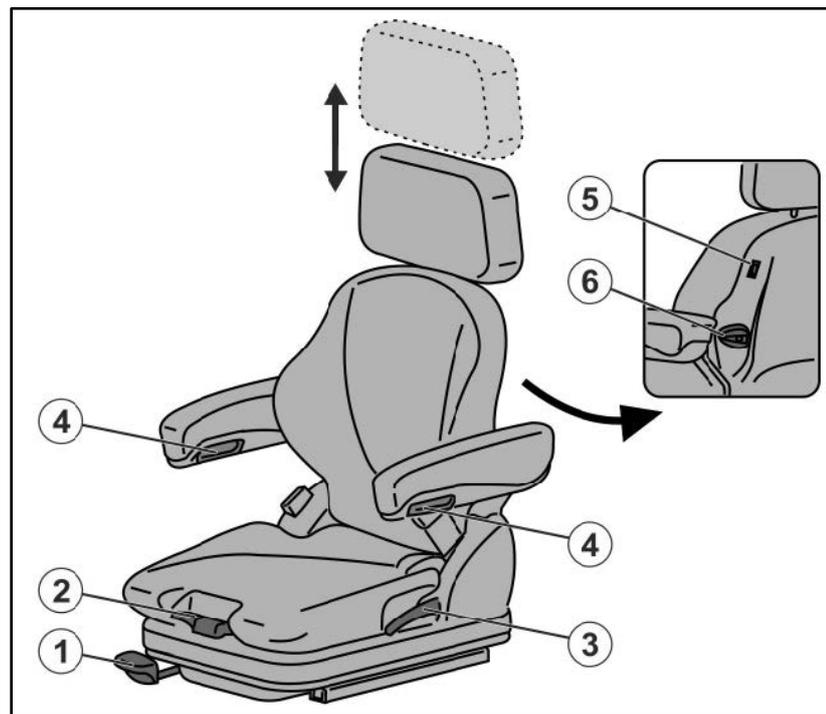
The driver's seat has a safety switch that switches off the engine as soon as the driver leaves the seat.

It takes less than 7 seconds to switch off.

If the seat suspension is too hard, ground undulations can trigger this safety function (engine will sputter).

6.4.2 "Deluxe" driver's seat

Grammer seat with air suspension and heater



- (1) Handle for horizontal adjustment
- (2) Handle for weight adjustment
- (3) Handle for backrest adjustment
- (4) Hand wheel for armrest tilt adjustment
- (5) Switch for seat heater
- (6) Hand wheel for lumbar support

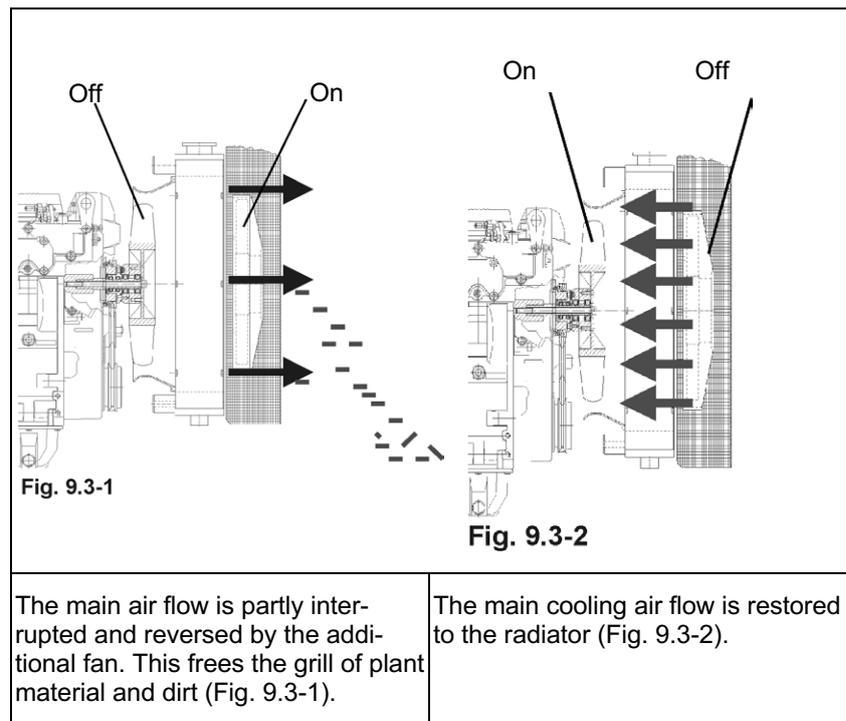
6.5 **AMAZONE Cooling System** - self-cleaning cooling system

The AMAZONE PROFIHOPPER is available with an optional self-cleaning cooling system (**AMAZONE Cooling System**) for removing plant material blocking the radiator grill, especially when mulching.

The self-cleaning system contains:

- a controller
- an extra cleaning fan
- an electromagnetic clutch (for the engine fan).

Operation





7 Starting and using the machine



WARNING

Danger of being entangled and drawn in and danger from foreign objects being caught and thrown in the danger area of the driven cutting deck!

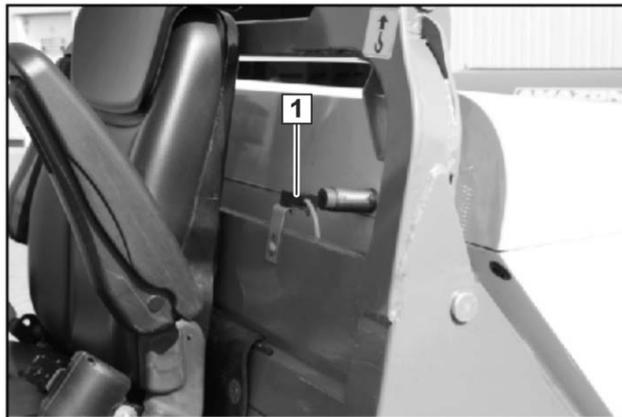
- Ensure that all other persons also maintain a sufficient safety distance from the danger area of the implement.
- It is forbidden to drive with the cutting deck cover folded open.
- It is forbidden to switch on the cutting deck when the cutting deck cover is folded open.

7.1 Protective equipment

7.1.1 Safety switch

The mower has 5 safety switches:

- One on the engine to switch off the mower unit if the engine temperature exceeds 110 °C (see section 9.2.3).
- A safety switch under the seat for switching off the engine as soon as the driver leaves the seat and the parking brake is not engaged.
- One on the hopper to switch off the engine if the hopper is raised while the mower unit is still in operation.



- A safety switch (1) on the hopper cover for switching off the cutting deck once the catch basket has been filled completely.
- One under the mower unit to switch off the electromagnetic clutch if the worms become blocked or jams.

The mower deck can only be put into operation if the following 5 requirements are met:

- No engine overheating (for example: dirty cooler).
- The hopper must be closed and completely lowered.
- The operator is sitting in the drivers seat.
- The auger collection system is not blocked.
- The parking brake must be released

**NOTE**

The engine can only be started if the driver's seat is occupied.

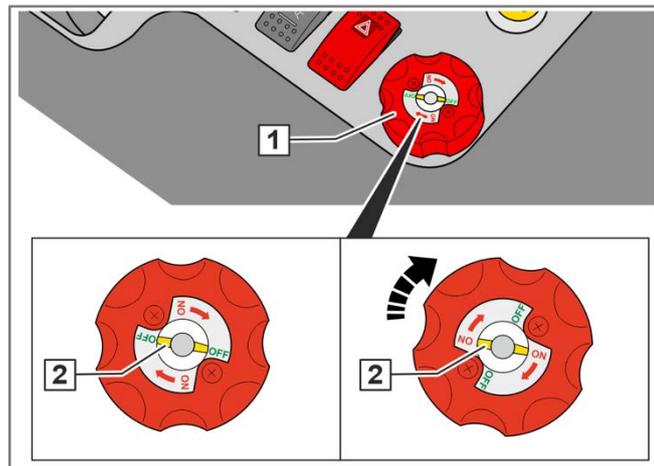
7.1.2 Battery disconnecter (optional)

With the battery disconnecter, the battery can be disconnected from the machine's electric circuit during longer periods of standstill. This protects the battery against discharging.

**Risk of machine damage**

Activation of the battery disconnecter while the engine is running can cause damage to the machine's electrical system.

- Only activate the battery disconnecter with the engine running in case of emergency.

**Activating the battery disconnector:**

- Press the button (1) until it engages.
Check if the display (2) is set to "OFF" in the viewing window.
→ The battery is disconnected from the machine.

Deactivating the battery disconnector:

- Turn the button (1) by 90° until it engages.
Check if the display (2) is set to "ON" in the viewing window.
→ The battery is connected to the machine.

7.2 Tyre pressure

Always inflate the tyres to the specified pressure. Pressures other than those recommended may impair driving characteristics.

Tyre pressure:	front:	1.5 bar
	rear:	1.5 bar
	Mower unit tyres:	1.5 bar

7.3 Before starting

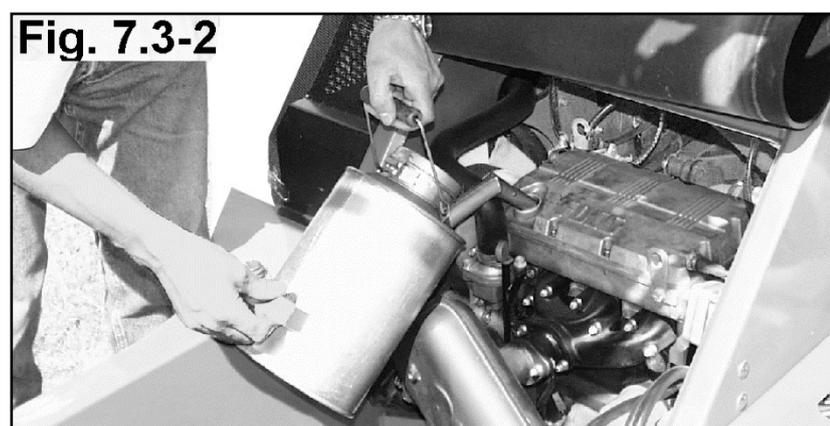
Engine oil

Check the following before every use:

Check oil level (Fig. 7.3-1) and top up if necessary (Fig. 7.3-2).

Oil grade: 10W40 API-CF diesel engine oil

Total filling amount: 3,4l



Hydraulic oil hydrostat

The oil tank is integrated into the frame and is located on the left-hand side of the implement (Fig. 7.3-3). The hydraulic oil level can be checked on the fill level indicator (1) on the right of the tank.

The oil level is optimal when the level reaches the MAX mark. If required, refill the hydraulic oil, see page 82 – 84.

Avoid overfilling! Please note that the oil expands when heated.

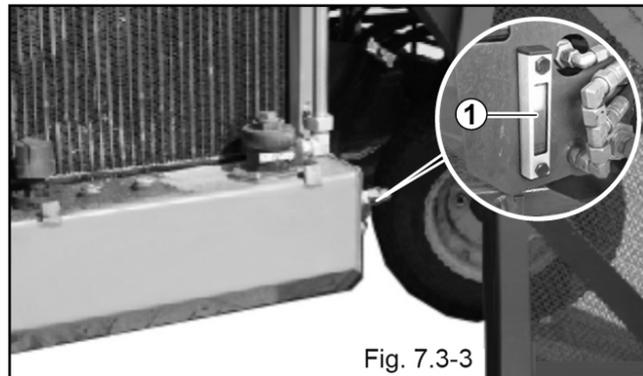


Fig. 7.3-3

Fuel (diesel)

The fuel tank is on the right side of the machine. It is easy to access.

Opening the screw connection (1) and folding down the guard screen (Fig.7.3-4).



Fig. 7.3-4

Filling the tank through by opening the cap. (Fig.7.3-5).



Fig. 7.3-5



The fuel tank is transparent so you can easily see the level. Make sure there is always enough fuel in the tank so it does not run dry.

Use DIESEL fuel according the norm ISO 8217 DMX or EN590:96 only!

The use of another fuel (e.g. biodiesel RME) or another fuel mixture will make the engine inoperable!

- **Diesel tank capacity:** 40 l
- **Diesel consumption:** 3-4 l per hour



DIESEL catches fire easily. Fire, naked flames and smoking are forbidden near diesel.

Prevent diesel from coming into contact with your bare skin.

Breathing in diesel fumes is hazardous for your health.



7.4 Starting and stopping the engine

To start the engine, sit on the drivers seat and proceed as follows:

1. Make sure the parking brake is on.
2. Do not operate the accelerator pedal or Steering wheel.
3. Deactivate the battery disconnecter (optional).
4. Turn the ignition key clockwise until the glow-plug light comes on.
5. When the glow-plug light goes out, turn the key clockwise and release it as soon as the engine is running. Move the accelerator lever no further than the centre position. Do not interrupt the starting procedure but do not try to start the engine for more than 5 seconds at a time.



CAUTION

**Never start the engine in an enclosed space.
There is a risk of asphyxiation.**

To switch off the engine, proceed as follows:

1. Bring the machine to a stop.
2. Move the accelerator lever back to the idle position.
3. Apply the parking brake.
4. Turn the ignition key anti-clockwise.
5. Activate the battery disconnecter (optional).



- The driver's seat must be occupied to start the engine.
- The driver's seat can be left without the engine stopping if:
 - the parking brake is applied.
 - the cutting deck is switched off.

7.5 Driving the machine



- The roll-over protection must be folded up!
- Make sure the cutting deck is lifted before road transport.
- Abrupt actuation of the accelerator pedal causes unexpected strong acceleration or deceleration.



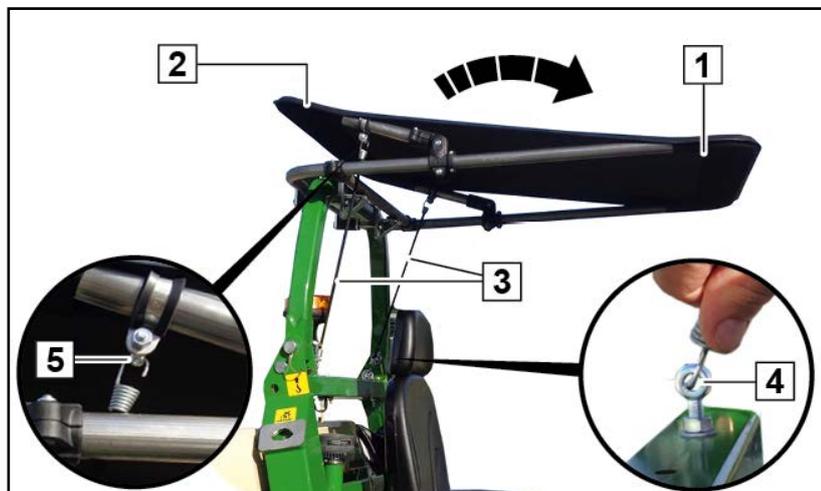
On slopes, the motor must be operated at full throttle (to prevent cavitation damage to the pump).

1. Attach seat belt.
2. Disengage parking brake.
3. Increase engine speed.
4. Drive off carefully (actuate accelerator pedal).
5. Check the steering.
6. While driving, set the maximum engine speed.

7.5.1 Using the weatherproof tarpaulin

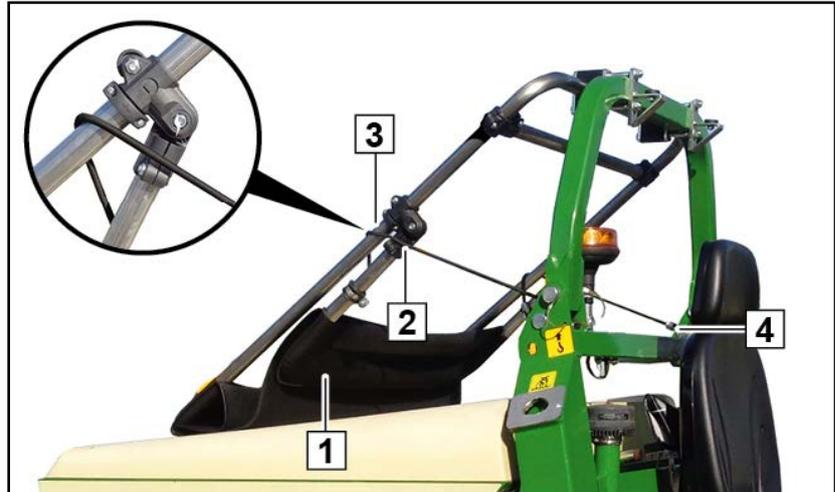
Opening the weatherproof tarpaulin

1. Fold the weatherproof tarpaulin (1) to the front.
2. Fold the rear part (2) to the rear.
3. Hook both tensioning ropes (3) on the eyes (4) (5).



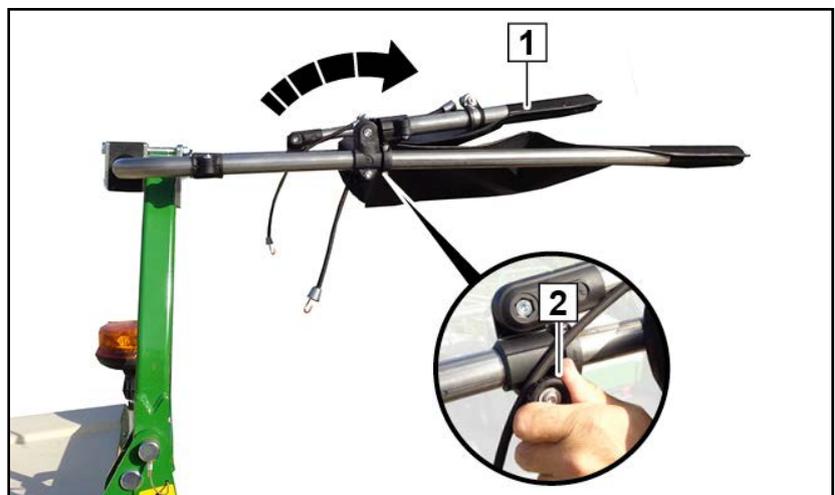
Folding back the weatherproof tarpaulin

1. Unhook both tensioning ropes from the eyes.
 2. Fold back the weatherproof tarpaulin (1) until it is resting on the grass collector.
 3. Guide both tensioning ropes (2) outwards over the frame (3).
 4. Hook both tensioning ropes on the eyes.
- The weatherproof tarpaulin is fastened on the grass collector.

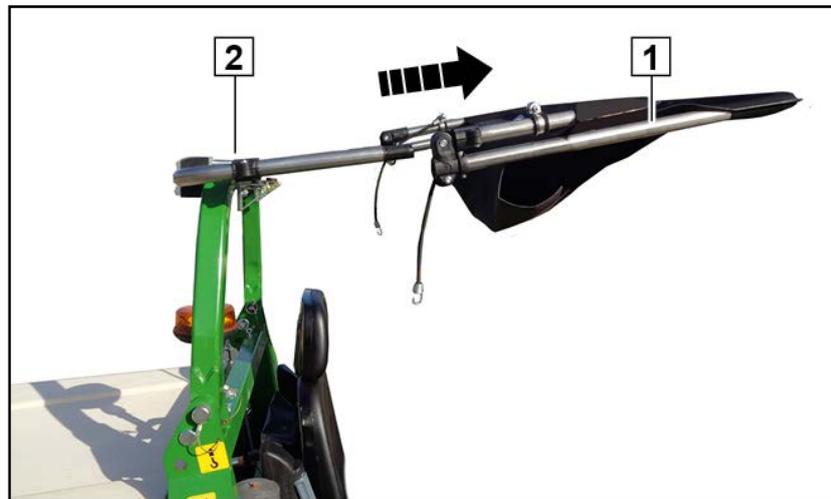


Removing the weatherproof tarpaulin

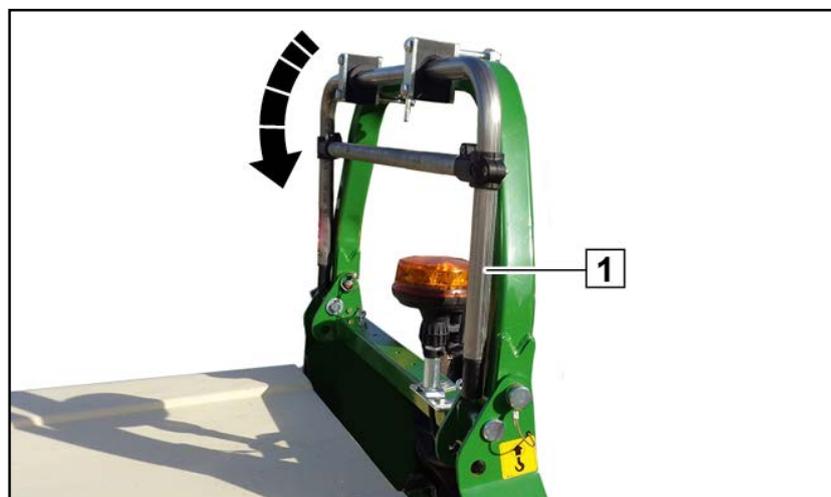
1. Unhook both tensioning ropes from the eyes.
2. Fold the rear part (1) to the front.
3. Loosen both fastening bolts (2).



4. Pull the front frame (1) with the weatherproof tarpaulin to the front out of the rear frame (2).
5. Store the front frame with the weatherproof tarpaulin in a suitable place outside of the working area.

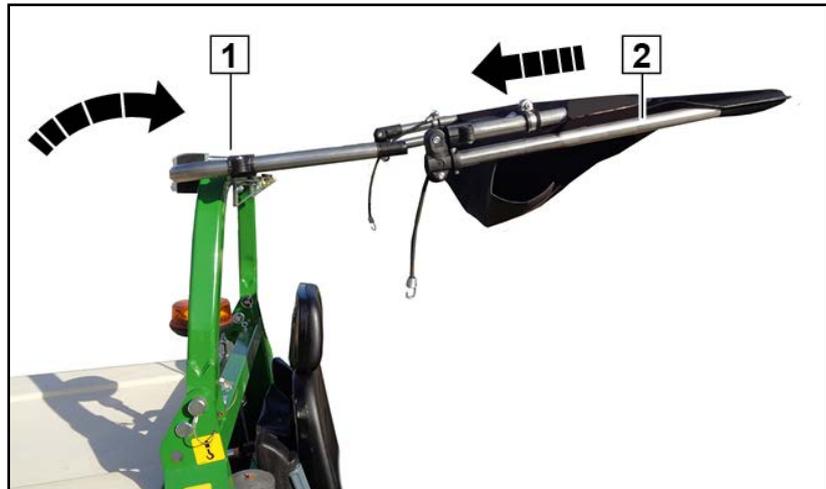


6. Fold the rear frame (1) back up until it is resting on the roll-over protection.

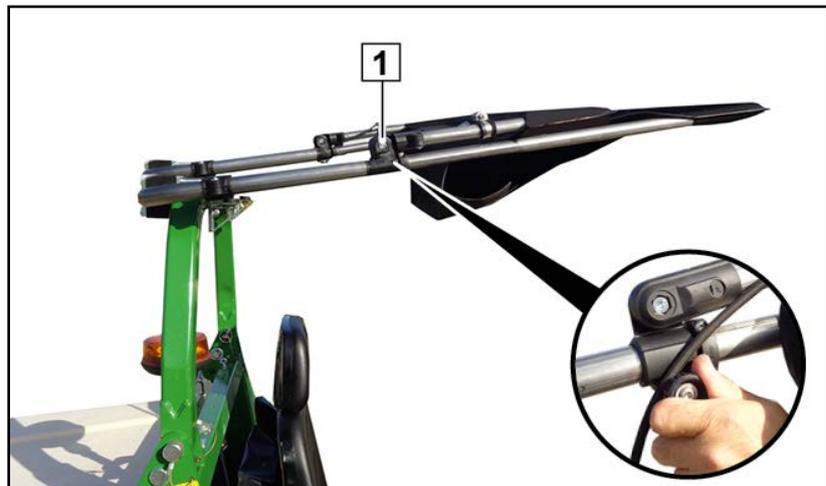


Putting on the weatherproof tarpaulin

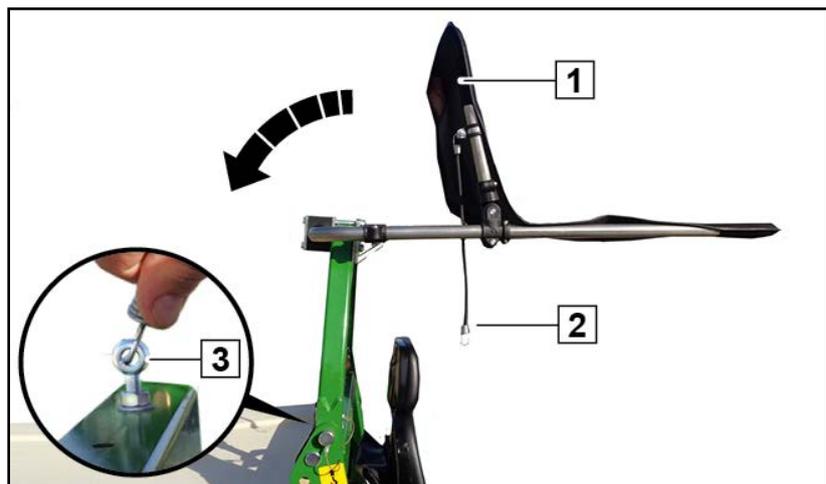
1. Fold the rear frame (2) to the front up to the stop.
2. Slide the front frame (1) with the weatherproof tarpaulin onto the rear frame.



3. Tighten both locking bolts (1).
4. Check the front frame for firm seating.



5. Fold back the rear part (1).
6. Hook both tensioning ropes (2) on the eyes (3).



7.6 Mowing

**WARNING**

- Always use the roll-over protection when driving with the machine!
- To pass under low clearance heights, the roll-over protection can be temporarily folded down.
 - In this case, do not put on the seat belt. This way, you can jump off in case the machine tips.
 - This is only allowed on level ground.
 - Fold the roll-over protection back up again immediately after passing the obstacle and fasten the seat belt.

**Wear hearing protection!**

Recommended hearing protection:

MOLDEX Comets® 6420

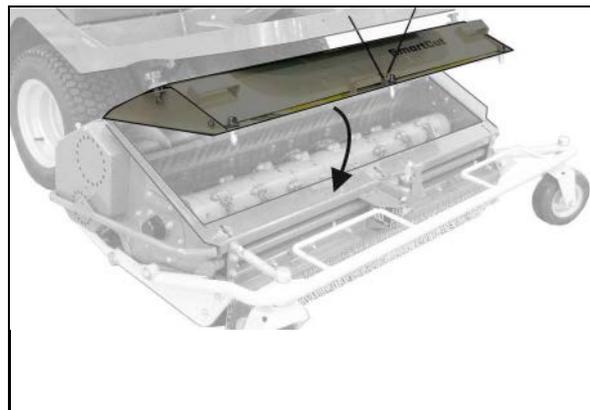
(Tested and approved in accordance with EN 352-2:2002)



Abrupt actuation of the accelerator pedal causes unexpected strong acceleration or deceleration.

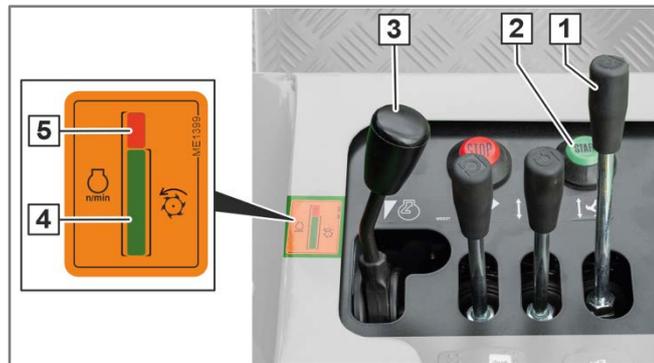
**WARNING****Danger of being entangled and drawn in and danger from foreign objects being caught and thrown in the danger area of the driven cutting deck!**

- It is forbidden to drive with the cutting deck cover folded open.
- It is forbidden to switch on the cutting deck when the cutting deck cover is folded open.



7.6.1 Lowering and starting the cutting deck

1. Start the engine.
2. Attach seat belt.
3. Disengage parking brake.



4. Completely lower the cutting deck with the lever (1) and engage the lever in the front position.
 - The cutting deck remains in float position and can therefore adapt to ground undulations.
5. Use the lever (3) to set a moderate engine speed in the green range (4).
 - The cutting deck then starts up more smoothly and the cutting deck drive coupling is protected.
6. Briefly press on the start switch (2) to start the cutting deck.
7. Wait until the cutting deck is fully running.
8. Set the maximum engine speed up to the red range (5).
9. Drive off carefully (actuate accelerator pedal).
 - Slowly press on the foot throttle until you have reached the desired driving speed.
 - Adapt the driving speed to the mowing conditions.



During operation, check the cooling air grid for contamination and plant residues.

7.6.2 Switching off and lifting the cutting deck



1. Switch off the cutting deck with the stop switch (1).
2. Completely lift the cutting deck with the lever (2).

7.7 Emptying the hopper

A fill level signal sounds when the hopper is full.
Empty the hopper when you hear this signal.



Do not overfill the hopper; you could damage the conveyor system.



When emptying, do not exceed the slope incline of $5^\circ \triangleq 8.75\%$!



On machines with weatherproof tarpaulin:

The weatherproof tarpaulin is opened or removed, see page 55/56.

Emptying at ground level

1. Pull the lever back to tip the hopper.
2. Return the hopper to the working position when it is empty by pushing the lever forward.

Emptying from a height

1. Back the machine to within about 1 m of the discharge point.
2. Use the control lever to bring the hopper to the correct discharge height.
3. Slowly back towards the discharge point (Fig. 8.7).



4. Tip the hopper.
5. Swing the hopper back to its original position
6. Move forwards to about 1 m from the discharge point
7. Lower the hopper into the working position.



CAUTION

Risk of fire.

The hopper must always be emptied fully after grass-cutting. Fermenting clippings can become very hot and even catch fire under certain conditions.



8 Cutting, scarifying and mulching

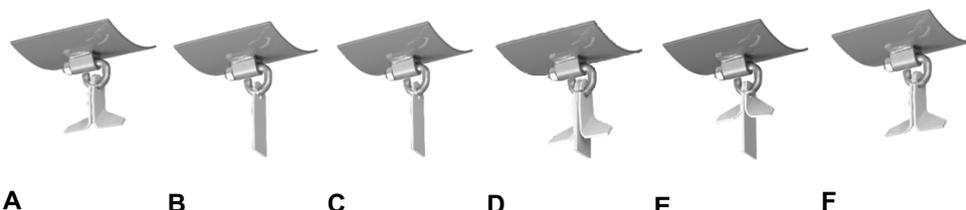


CAUTION

The period from the shutdown of the engine to a complete stop of the rotor is approx 5-7 seconds.
The mower deck cover must only be opened when the rotor has stopped moving.

8.1 Fitting the blades

Blade overview



Blade replacement without tools	Wing blade, long H77 sharpened (standard)	Scarifying blade 3 mm	Scarifying blade 2 mm	Wing blade, long H77 sharpened, with scarifying blade	Wing blade, sharpened, with scarifying blade	Wing blade, long H88 sharpened
Short cut in moist and fine lawn	● ●					● ● ●
Lawn	● ● ●					● ● ●
Golf course	● ● ●					● ● ●
Park	● ● ●					● ●
Public green spaces	● ● ●					● ●
Cutting flowers and eco-meadows	● ● ●					● ●
Foliage collection	● ●			● ● ●	● ● ●	● ●
Scarifying		● ● ●			● ● ●	
Scarifying golf courses / bowling greens			● ● ●		● ● ●	
Weeding lawns					● ● ●	
Paddocks					● ● ●	
● ● ● excellent result						
Blades not Required	36 pairs	36 pieces	36 pieces	36 pairs + 36 pieces	36 pairs + 36 pieces	36 pairs

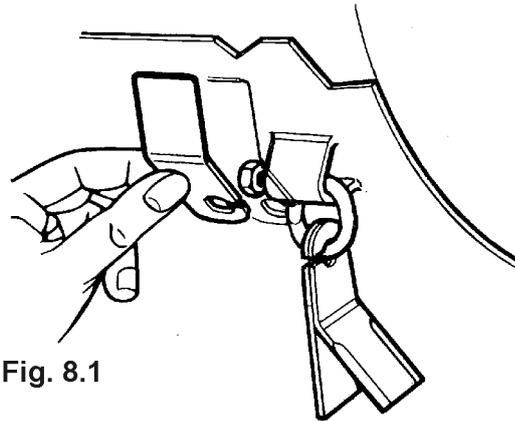
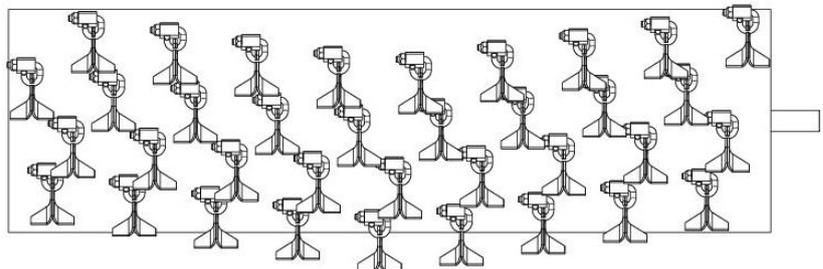


Fig. 8.1

The cutting and scarifying blades can be swapped without using tools (see Fig. 8.1).

MOWING

Profihopper is fitted with 36 pairs of wing blades as standard
9 pairs blades x 4 rows = 36 pairs blades / rotor

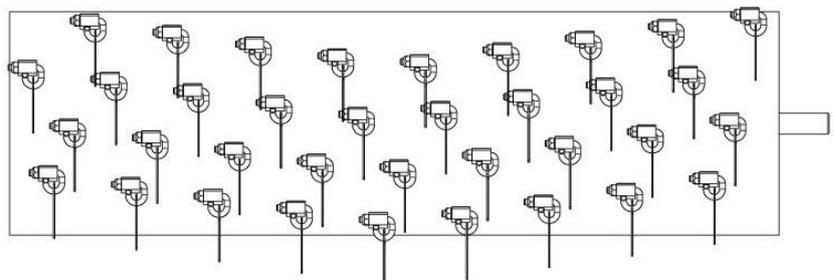


Direction of travel

SCARIFYING

The Profihopper can be used to scarify the lawn and collect the scarified material as it goes.

9 blades x 4 rows = 36 blades / rotor.



Direction of travel



NOTE

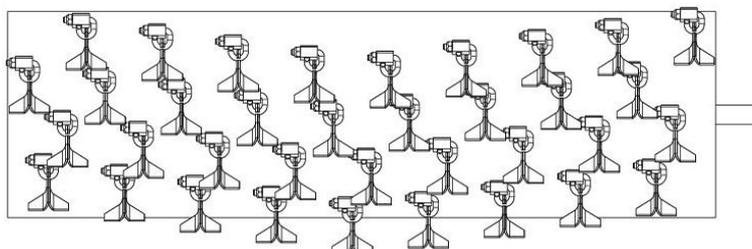
Only one type of scarifying blade may be used at a time (2mm OR 3mm). Risk of imbalance.

If required, the wing blades can be replaced by different blades. No tools are needed to hang the blades on the clip bolts.

WING BLADES LONG H77 / H88

Operational area:

Lawn; Golf course; Park; Public green spaces; Cutting flowers and eco-meadows; Foliage collection; mulch.

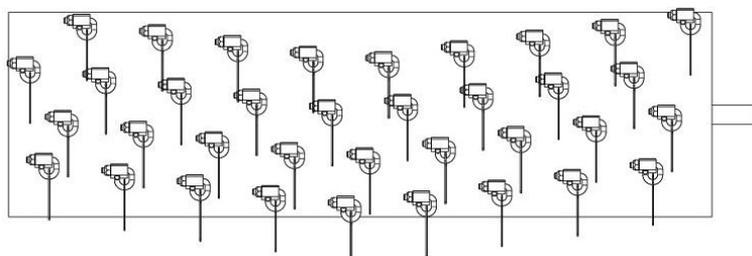


SCARIFYING BLADES

Operational area:

2mm: Scarifying

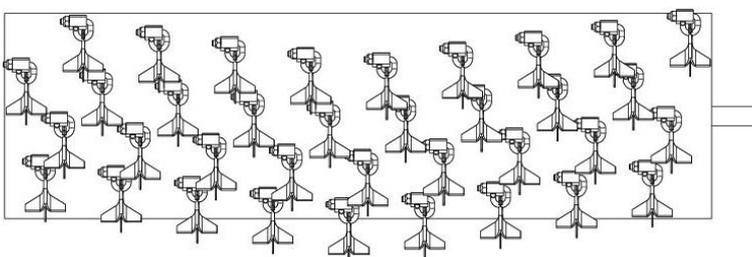
3mm: Scarifying golf courses / bowling greens



WING BLADES LONG H77 WITH SCARIFYING BLADES

Operational area:

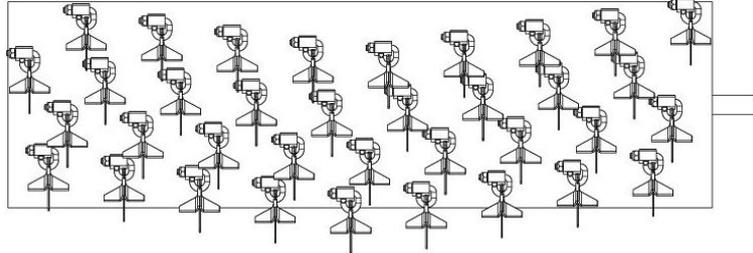
Foliage collection; Paddocks; mulch



WING BLADES H60 WITH SCARIFYING BLADES

Operational area:

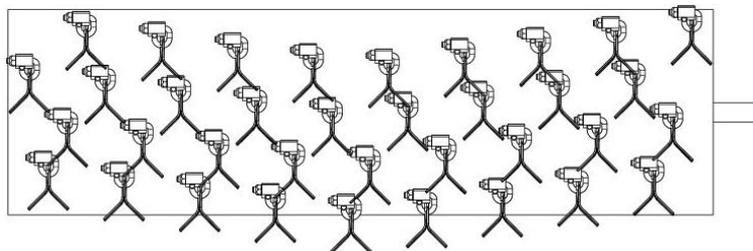
Foliage collection; Paddocks; Scarifying golf courses / bowling greens;
Weeding lawns



MOWING BLADES ("Y"- SHAPED)

Operational area:

Mulch ONLY (These require less power from the machine but are re-
stricted in their collection capabilities.)



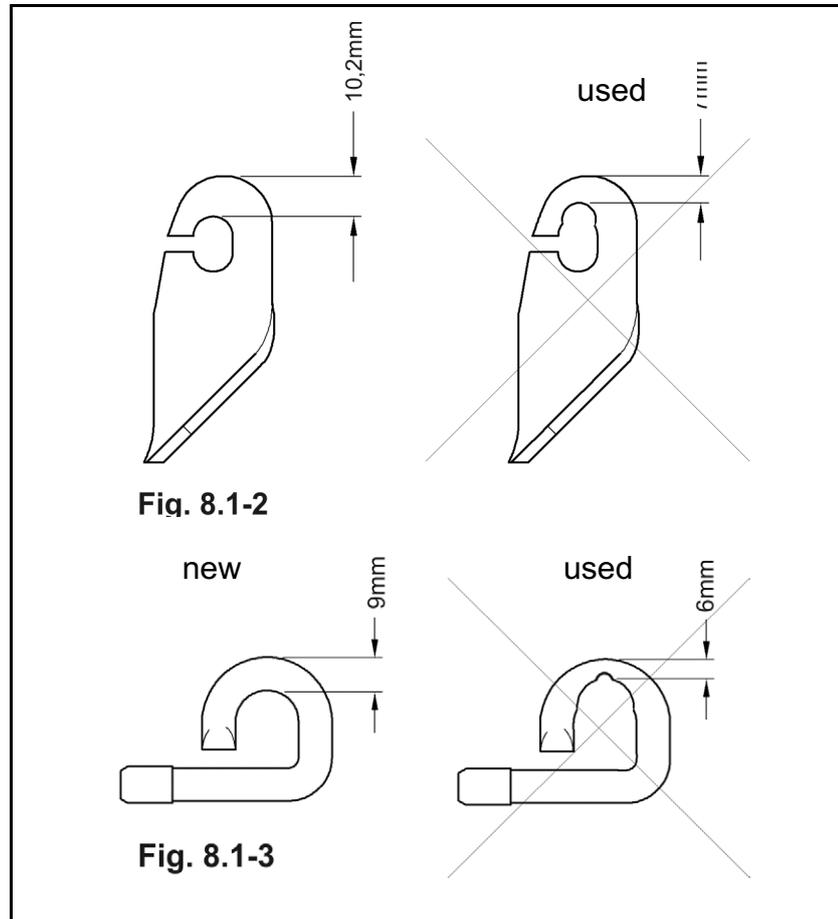
NOTE

It is essential for the rotor to be equipped with one of the above blade arrangements. If mower tools are missing or have been incorrectly fitted, an imbalance is created which, over time, will lead to the whole machine being damaged.

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. 8.1-2 and 8.1-3 show the limits of wear for the mounting brackets.



CAUTION

The blades and the blade fasteners must be checked before the start of every run.

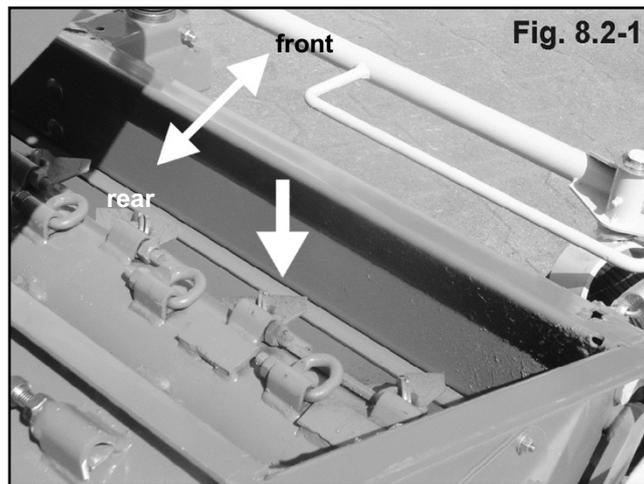
All screw unions must be firmly tightened.

8.2 Adjusting the baffle plate

There is a baffle plate in front of the mowing unit (Fig. 8.2-1) which can be adjusted to improve cut quality when mowing. The baffle plate is set for scarifying at the factory.

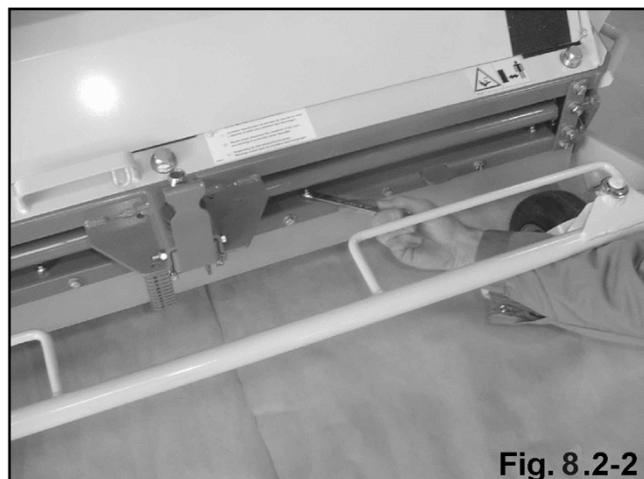
Setting options:

- Scarifying push the plate forwards to the stop.
- Mowing push the plate back to the stop.

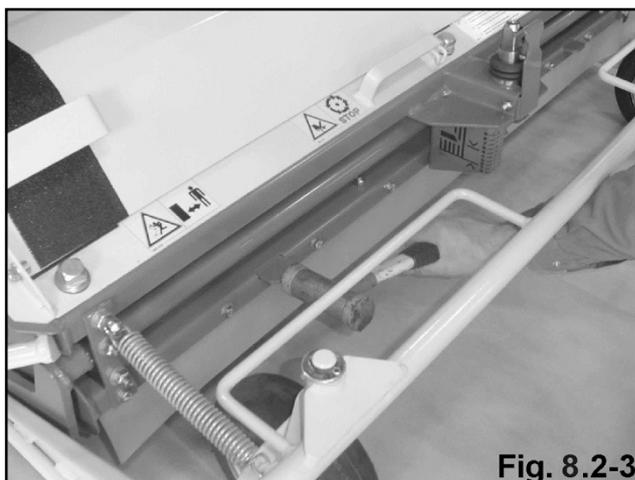


The plate must be in the forward position when scarifying.

Four bolts (Fig. 8.2-2) need to be undone to slide the bar.



You can use a hammer to tap the plate towards the rotor (Fig. 8.2-3).



8.3 Adjusting the cutting height

To adjust the cutting height, proceed as follows:

- Open the retaining hook and remove the crank handle (Fig. 8.3-1),
- Turn the lever (Fig. 8.3-2).
- Turn to set the desired cutting height (Fig. 8.3-3),
- Return the lever to the locked position and fix in holder.



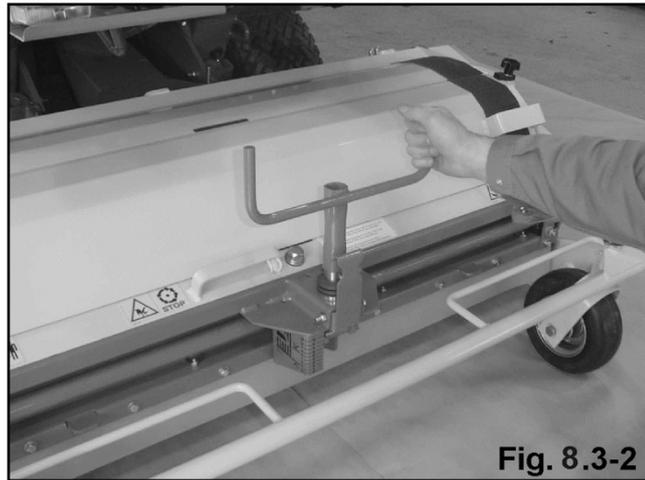


Fig. 8.3-2

The mower unit has a cutting height gauge.

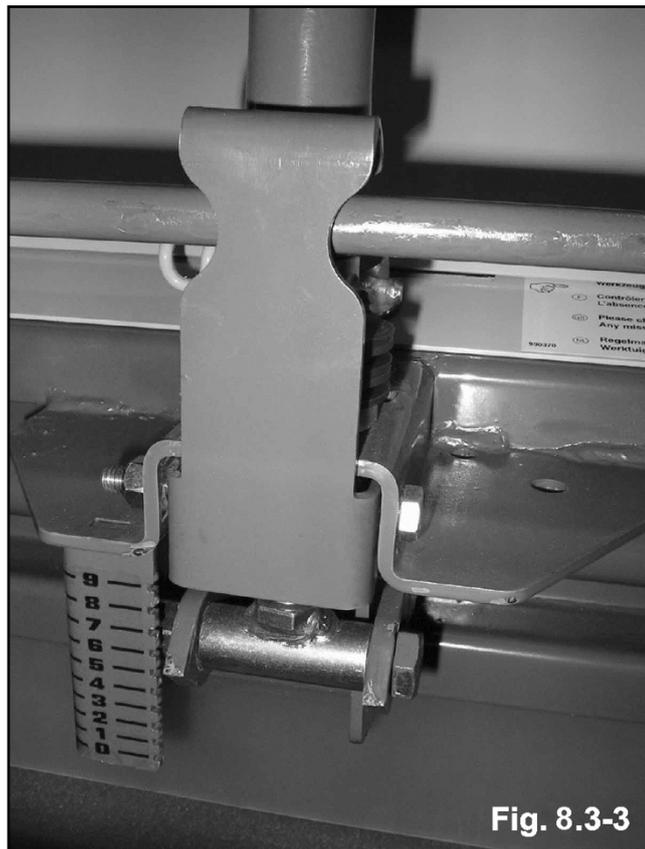


Fig. 8.3-3



CAUTION

The lever must be returned to the locked position.
To do so, turn the lever, place it on the pin and lock with the retaining hook (Fig. 8.3-4).



8.4 Collection system

The cuttings are collected and are conveyed by worm conveyors into the hopper where they are compressed. The drive belts on both worm conveyors are fitted with an overload switch in case they become blocked with foreign bodies.



CAUTION

Risk of damage to the overload clutch.

The warning light on the instrument panel also comes on.

Switch off the mower unit as quickly as possible.



ATTENTION

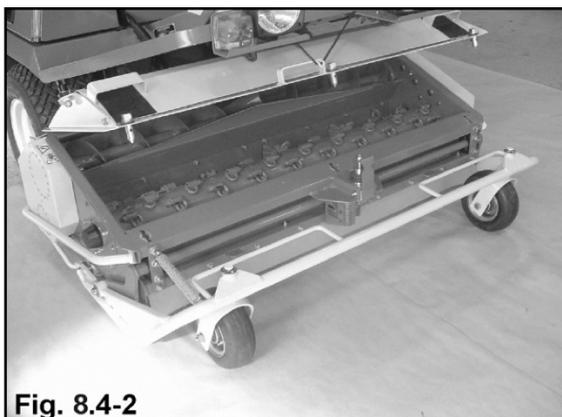
After the period, from the shutdown of the engine to a complete stop of the rotor, is ca 5 seconds.

The mowers may only be opened when the rotor hibernation has been achieved.

Clean the worm conveyors as follows:

Cleaning the transverse worm:

1. Switch off the mower unit.
2. Switch off the engine
3. Open the mower unit cover with the crank handle (Fig. 8.4-1).
4. Secure the cover with the holding strap (Fig. 8.4-2).



1. Open the protective cover on the belt guard (Fig. 8.4-3).
2. Insert the crank handle over the end of the transverse worm conveyor (Fig. 8.4-4).
3. Release the foreign matter by turning the worm and remove.



Cleaning the longitudinal worm:

- Raise the hopper to the highest position
- Support it with the safety bracket (Fig. 8.4-5).

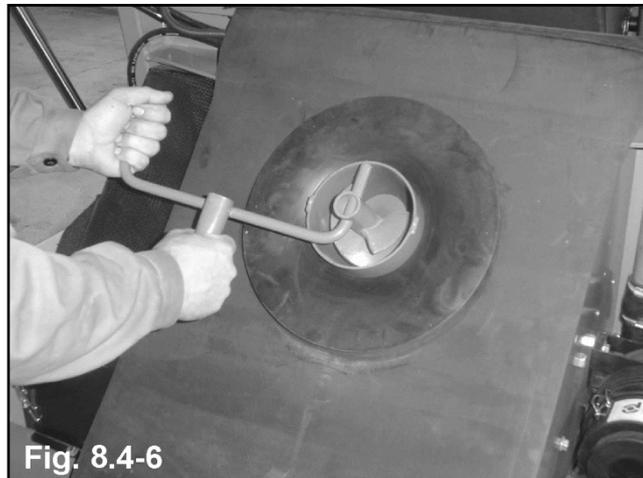


**CAUTION**

The safety bracket must be in place any time work is carried out under the hopper.

This prevents the hopper from lowering accidentally.

- Release the foreign matter by turning the worm and remove (Fig. 8.4-6).



- Remove the safety bracket.
- Lower the hopper into the working position.
- Close and lock the mower unit cover.

**CAUTION**

Before restarting the mower unit, make sure the cover is firmly locked in place. If the lock bolts are faulty, replace them immediately.

You can now continue working.



8.5 Mulching

The mower comes with an attachment that allows you to mow and mulch the cut grass without collecting it.

To do so, take the mulch flap from the cover and place it in the rotor box (Fig. 5.5). This stops the cuttings entering the transverse worm. Instead, they are mulched and returned directly to the ground.





9 Options

9.1 Lights

This additional equipment is required before an operator's permit can be issued.

The lighting kit contains:

- front turn indicators
- rear turn indicators, incl. fittings
- front headlamps
- rear lights
- 1 horn
- 1 control unit that is fitted next to the driver's seat

9.2 Rubber support roller

The rubber support roller can be factory-mounted or used as a retrofit instead of the conventional support roller.

The rubber support roller greatly reduces the rolling noise when mowing and collecting leaves on hard surfaces, such as cobblestones, asphalt or suburban railway tracks with grass.

The rubber support roller is used under the same conditions as the conventional support roller.

9.3 Battery disconnecter

With the battery disconnecter, the battery can be disconnected from the machine's electric circuit during longer periods of standstill. This protects the battery against discharging.

9.4 Weatherproof tarpaulin

The folding weatherproof tarpaulin provides protection against rain and sun. It can be installed and removed in just a few steps.

10 Faults

10.1 Seat contact switch defective



Seat contact switch defective control lamp.

As soon as the parking brake is released, the engine is switched off.

Driving the machine with a defective seat contact switch:

1. Apply the parking brake.
2. Start the engine.
3. Move the catch into working position.
4. Press and hold the "Cutting deck on" switch.
5. Press the "Cutting deck off" switch 10 times.

→ The machine can be moved, but the cutting deck cannot be started.

10.2 The machine cannot be started

Possible cause:

The battery disconnecter is activated, if it is installed on the machine.

Solution:

- Deactivate the battery disconnecter, see 7.1.2.

10.3 The cutting deck cannot be started

Possible cause:

The set engine speed is too high.

The cutting deck can only be started at engine speeds below 2500 rpm.

Solution:

- Start the cutting deck at the correct engine speed, see 7.6.1.

10.4 Towing the machine

- Secure the machine against rolling away!
 - Only tow or push the machine for short distances.
 - Before towing / pushing the machine, open the bypass of the hydraulic pumps.
- Otherwise, there can be damage to the machine.
- Close the bypass against before operation.

iDrive / 4WDi

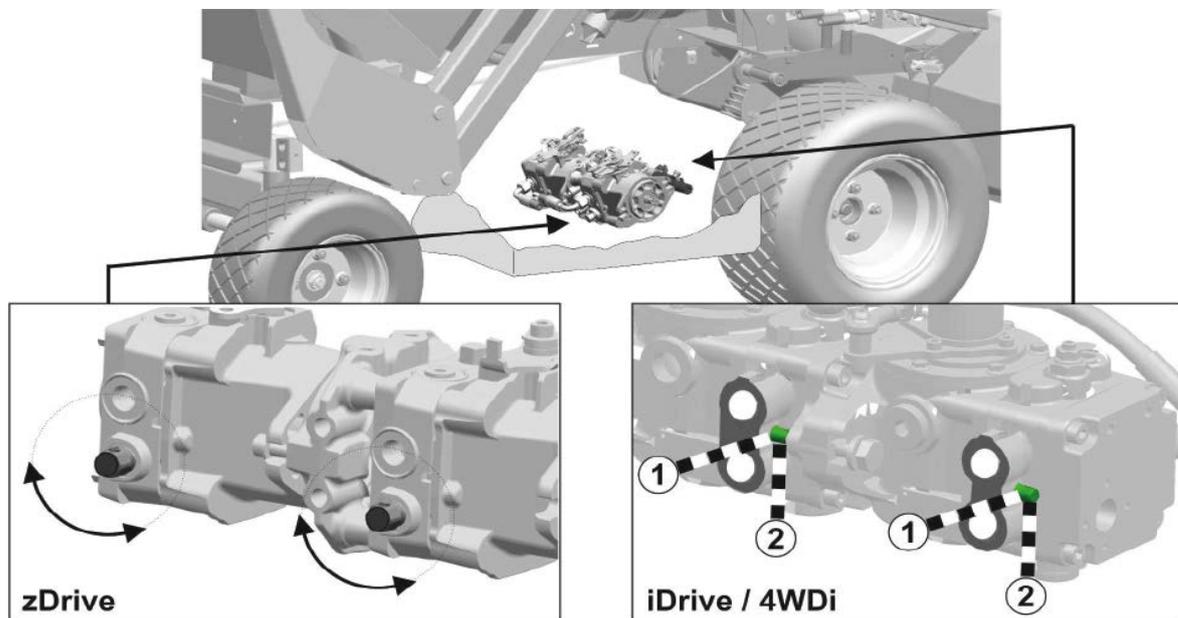
Open the bypass of the hydraulic pumps using the hand lever.

Close the bypass again before operation.

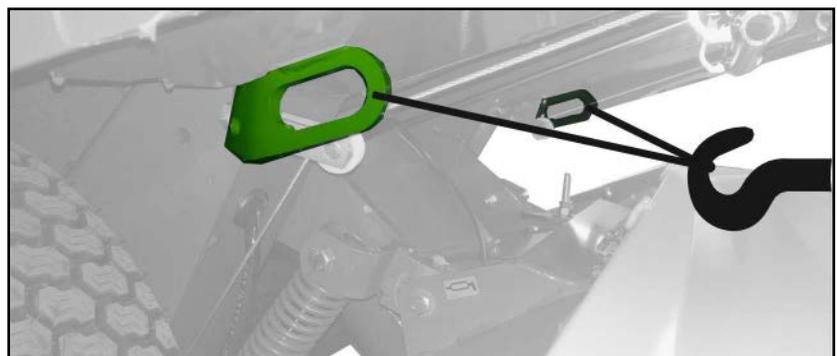
- (1) Hand lever in towing position
- (2) Hand lever in operating position

zDrive

Open the bypass of the hydraulic pumps by loosening the adjusting screw (by one turn).



To tow the machine, use the two attachment points for the towline under the foot plate.



11 Maintenance



CAUTION

Before performing any maintenance, make sure the machine is switched off, the parking brake engaged and the key removed from the ignition.



ATTENTION

The period from the shutdown of the engine to a complete stop of the rotor is approx 5-7 seconds.

The mower deck cover must only be opened when the rotor has stopped moving.

11.1 Raising the implement

Lifting points on the implement are indicated with stickers.



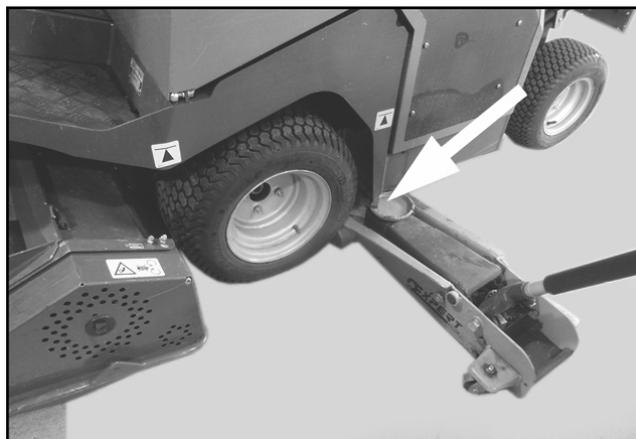
IMPORTANT

Implement damage due to incorrect positioning the jack or lifting equipment.

Position the jack or lifting equipment only in the marked area on the frame.

Raising the implement to change the tyres

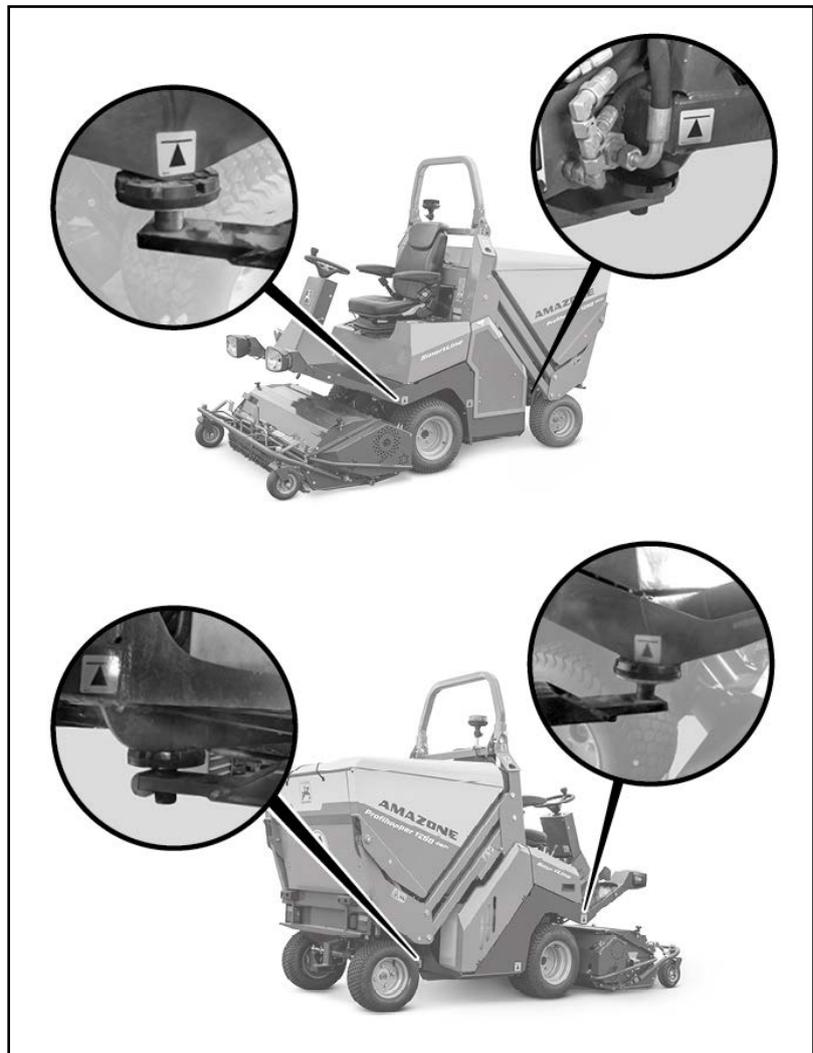
- Only using the lifting point behind the front wheels to change the tyres.
- To raise the implement, it must be standing completely on the ground.
- Position the jack on one side only and lift the implement slowly.





Lifting the implement with the lifting device

- Only attach the lifting device to the implement at the marked points.
- Slowly lift the implement.



11.2 Cleaning

**WARNING!**

- The high-pressure cleaner jet may never be sprayed directly on the drive elements, bearings and electrical components!
- Do not clean the control panel with a high-pressure cleaner!
- During the cleaning procedure, remove the ignition key and seal the ignition lock with the protective dust cap!

1. Open the mower unit cover.
 2. Clean the rotor box with a high-pressure hose.
- After cleaning, the dirty water must flow away completely from the worm conveyor system.
3. Clear the drain holes underneath the feeder tube for the longitudinal worm.
 4. Clean the radiator with compressed air only.

11.3 Maintenance control lamp



The control lamp indicates that a maintenance interval has been reached (after 50 hours and every 125 hours).

- Perform maintenance.

Resetting the control lamp

1. Lift the catch.
 2. Stop the engine.
 3. Ignition key in Position 1
 4. Press and hold the "Start cutting deck" button.
 5. Press the "Stop cutting deck" button 10 times.
- The control lamp is turned off.

11.4 Rotor condition

**CAUTION**

Missing or wrongly aligned blades can throw the machine out of balance and damage it.

Always check the position/condition of the blades.

There are some spare blades in the machine's toolkit. If the rotor starts to vibrate strongly even though the blades are fitted correctly, contact Service.

11.5 Engine maintenance

Follow the operating and maintenance instructions in the LOMBARDINI / KOHLER operating instructions. These instructions are supplied with the machine.

**CAUTION**

Make sure you read the LOMBARDINI / KOHLER operating instructions carefully before starting the machine for the first time.

**CAUTION**

Before working on any parts connected to the engine, switch off the engine, remove the ignition key and allow the engine to cool down.

To access the main drive components:

- Raise the hopper to the highest position
- Put the support bracket in place
- Open the cover
- Open the engine cover

The engine is now easy to reach (Fig.10.3-1)



11.5.1 Oil level - oil change

See LOMBARDINI / KOHLER engine operating instructions.

11.5.2 Engine oil filter

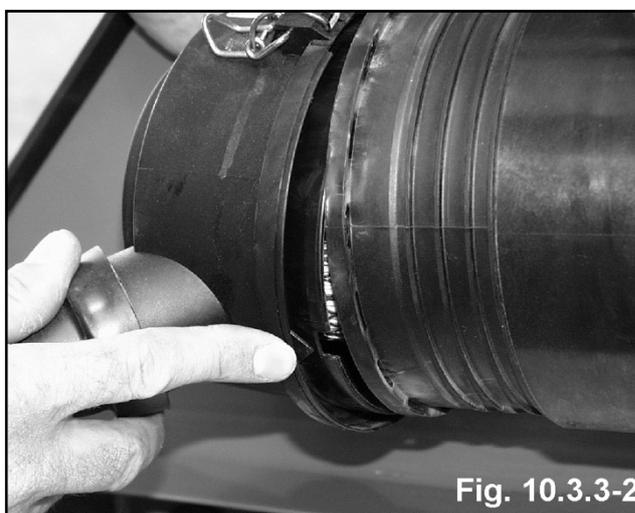
See LOMBARDINI / KOHLER engine operating instructions.

11.5.3 Air filter

Clean the air filter with compressed air at least once a week.
If conditions are dry and dusty, clean the filter daily.
Replace faulty filter cartridges immediately.

To remove the air filter, proceed as follows:

- Open both retaining clips
- Remove the cover
- Remove the cartridges (2 filters inside each other) (Fig. 10.3.3-1)



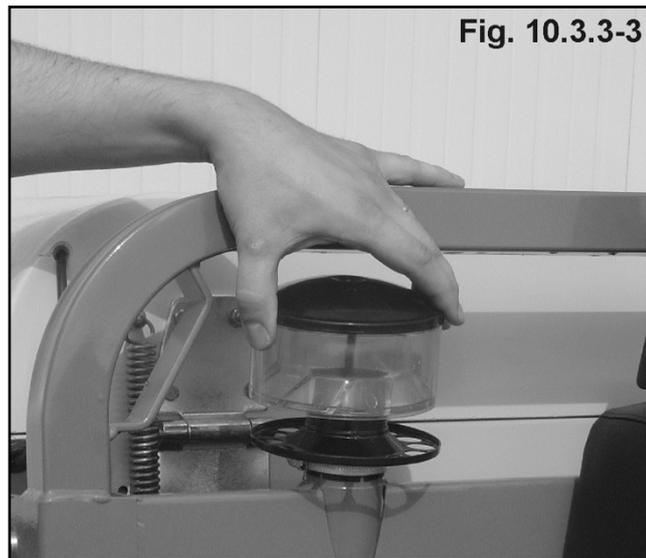
The filter cartridge should be replaced every 300 operating hours or at least once a year.

To fit the filters, proceed in the reverse order (Fig. 10.3.3-2).

Up to implement ID no. PH00053158, the air filter is equipped with a pre-filter that needs to be cleaned on a daily basis.

To clean the pre-filter, proceed as follows:

- Remove the wing nut.
- Take off the seal.
- Clean the dust catcher (Fig. 10.3.3-3)
- **Reverse the above order to refit the pre-filter.**



As of implement ID no. PH00053159, the implement is equipped with a self-cleaning pre-filter (1).

For this reason, cleaning is not necessary.



11.5.4 Fuel filter

The fuel filter should be replaced every 250 operating hours or at least once per year.
For more details, see the LOMBARDINI / KOHLER operating instructions.



11.5.5 Cooling system

The radiator has a protective grille that also serves as a prefilter for the cooling air. This filter and the radiator must **be cleaned regularly with compressed air** to prevent the engine from overheating. Cleaning with water could block the radiator fins. Using a high-pressure hose could bend the fins.

The protective grille can be removed by undoing the retaining clips (Fig. 10.3.5-1).

When replacing the grille, make sure the gasket lips are pressed against the radiator. Damaged gaskets must be replaced to prevent grass and dirt particles from clogging the radiator.

The machine is fitted with a water expansion tank. This does not prevent overheating, but ensures that the overheated water can condense and be returned to the system. The fluid level in the expansion tank should be checked daily.



fig. 10.3.5-1



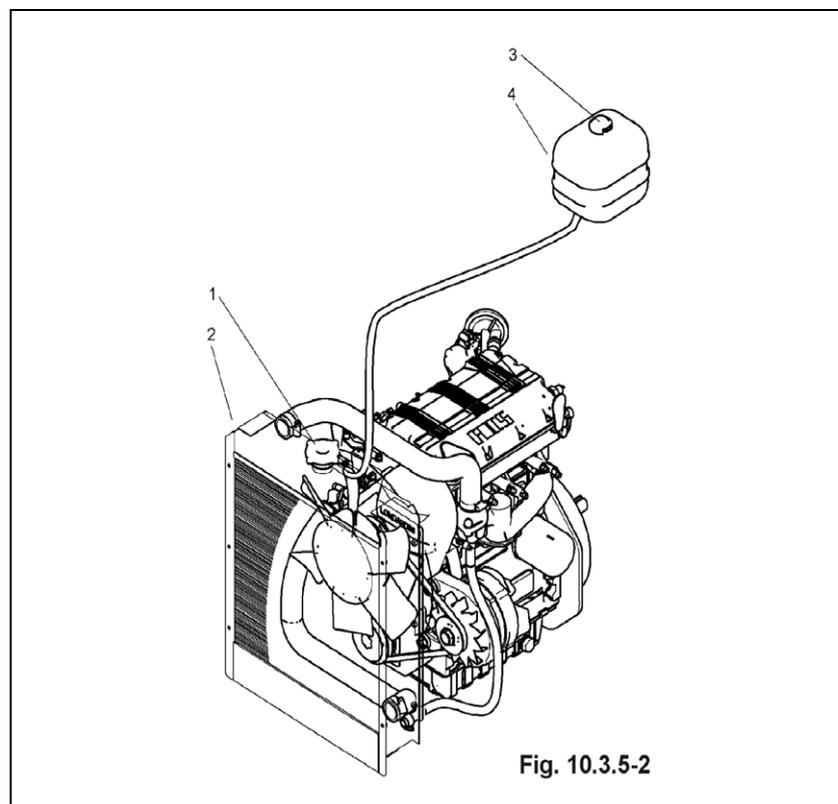
CAUTION

- All covers must be closed when the engine is started.
- Do not open and/or fill the tank with the engine running.
- To avoid the risk of burns, do not open the radiator until it has cooled down.
- **THE TANK COULD BE PRESSURISED.**

11.5.5.1 Cooling system up to machine ID no. PH00053368

Refill the radiator if the coolant circuit is empty. To do so:

- Undo and remove the radiator cover (Fig.10.3.5-2/1)
- Fill the radiator to the lip with coolant (Fig.10.3.5-2/2), then refit the cover
- Open the expansion tank (Fig. 10.3.5-2/4).
- Fill the tank to the MIN/MAX mark
- Close the tank cap (Fig.10.3.5-2/3)
(The cap has ventilation holes because this is a pressureless equalisation system)
- Start the engine and check the tank level
- Add coolant if the level is below the MIN/MAX mark



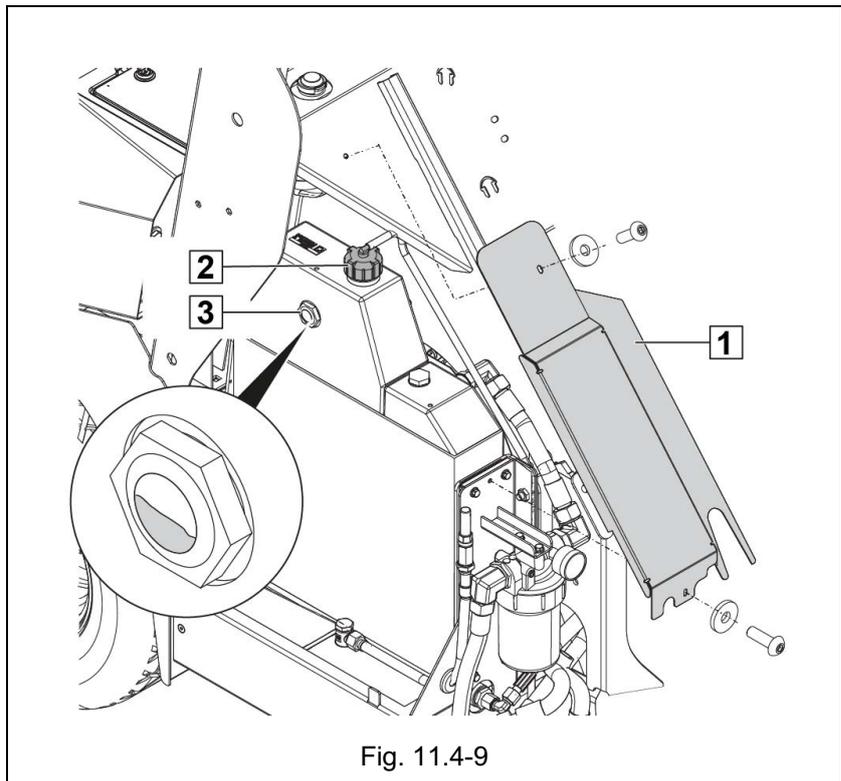
The coolant level should be checked weekly.
The coolant remains liquid to - 30°C.

11.5.5.2 Cooling system as of machine ID no. PH00053369

If the coolant circuit is empty, the coolant must be refilled (Figure 11.4-9).

In doing so, the following sequence must be observed:

- Remove the protective cover (1).
- Unscrew and remove the radiator cap (2).
- Fill the radiator with coolant until the coolant level becomes visible in the inspection glass (3) of the fill level indicator.
- Screw the radiator cap (2) back on.
- Start the engine and monitor the coolant level.
- If the coolant level drops below the inspection glass (3) of the fill level indicator, coolant must be added.
- Put on the protective cover (1).



The coolant level should be checked weekly.
The coolant remains liquid to - 30°C.

11.5.6 Power transmission belts

See LOMBARDINI / KOHLER engine operating instructions.

11.6 Hydrostatic drive

11.6.1 Oil change

The oil for the hydraulic system must be changed after each 500 operating hours. The drain plug is located under the hydraulic tank.

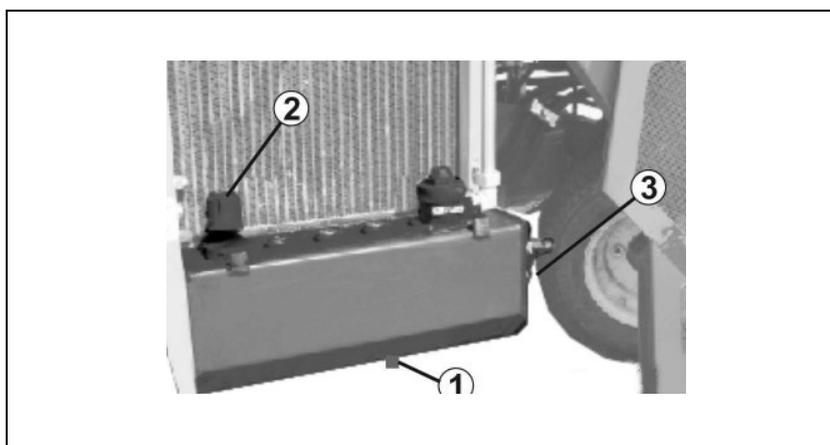
fill quantity	15 litres	15 litres	18 litres



11.6.1.1 Oil change up to machine ID no. PH00053368

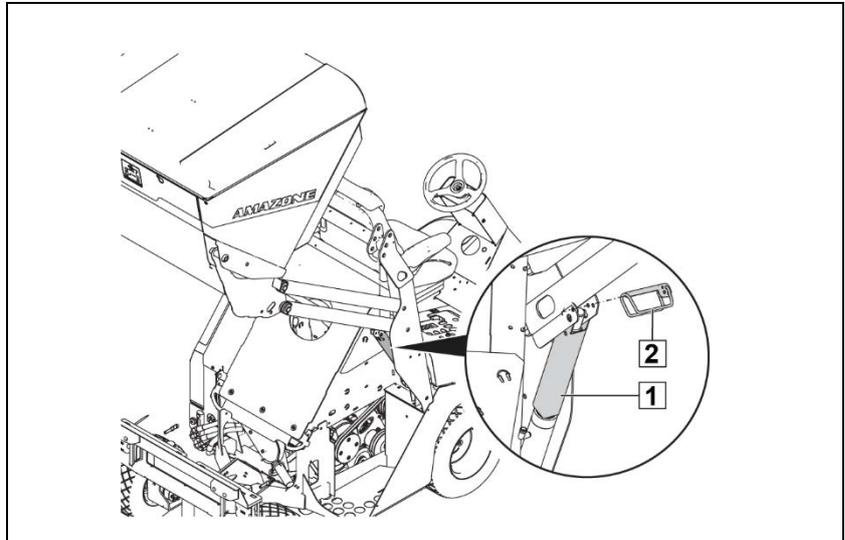
If an oil change is required, the following sequence must be observed:

- Unscrew the sealing cap (2).
- Put a collection bucket with a sufficient volume under the drain plug (1).
- Unscrew the drain plug (1) and completely drain the oil.
- Screw the drain plug back on and tighten it.
- Fill oil through the filling sieve in the filling opening (2) until the oil level is visible in the fill level indicator (3).
- Screw the sealing cap (2) closed.

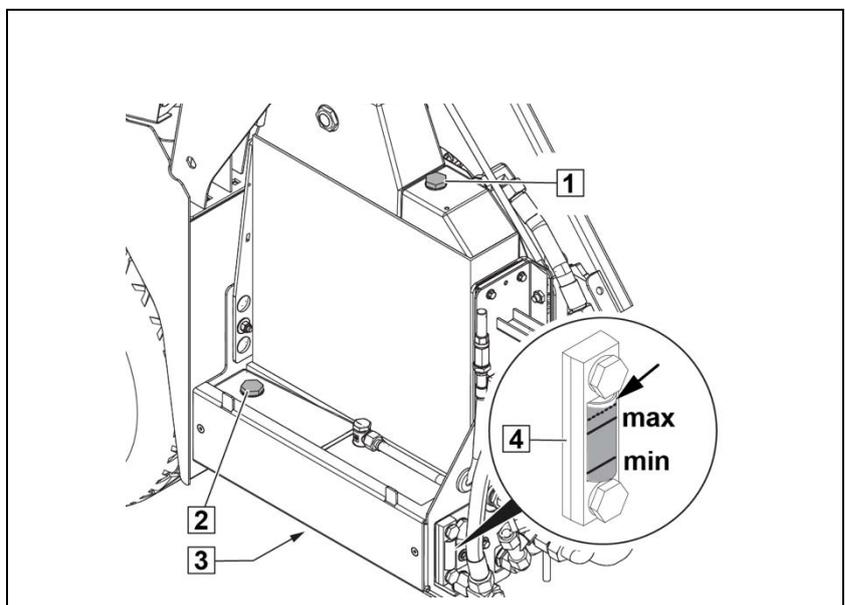


11.6.1.2 Oil change as of machine ID no. PH00053369

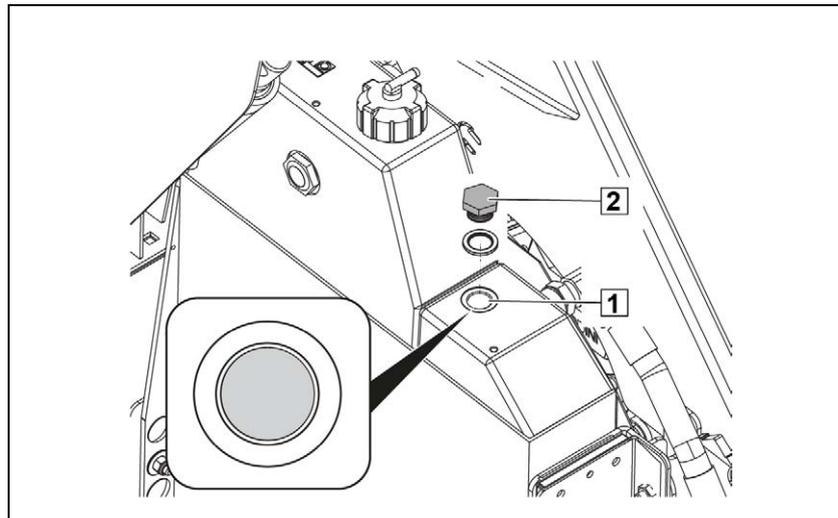
completely raise the grass collector.
Insert the safety support (1) and secure with a linch pin (2).



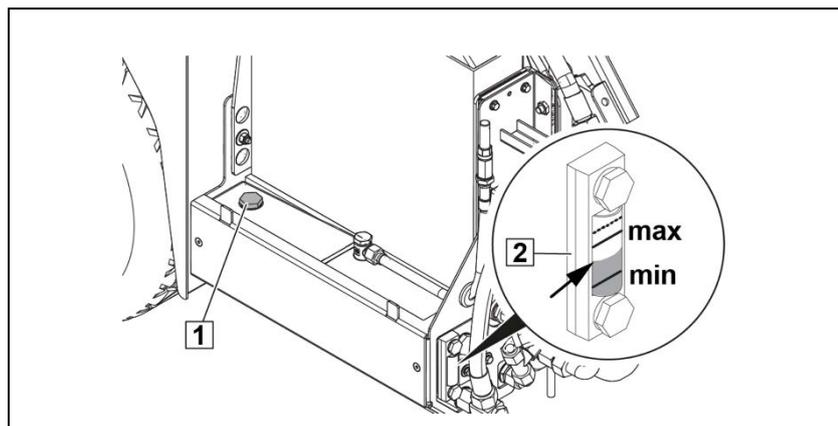
Unscrew the bleed screw (1).
Unscrew the screw for the filling opening (2).
Put a collection bucket with a sufficient volume under the draining plug (3).
Unscrew the drain plug (3) and completely drain the oil.
Screw the drain plug back on and tighten it.
Fill oil in the filling opening (2) until the oil level is above the mark on the fill level indicator (4).



- Start the engine and let it run until the oil is visible at the bleeding opening (1).
- Stop the engine.
- Screw in the bleeding screw (2) and tighten it.



- Unscrew the screw for the filling opening (1).
- Refill the oil until the oil level is 10 mm under the MAX mark on the fill level indicator (2).
- Screw in the screw for the filling opening and tighten it.



Check the level of oil

- Pull out the safety support on the grass collector and fold it in. Secure the folded safety support with the lynch pin.
- Start the engine.
- Move all of the hydraulic components on the machine:
 - Lift and lower the cutting deck
 - Lift and lower the grass collector
 - Tip and swivel back the grass collector
 - Turn the steering wheel all the way to the left and right
 - Activate the hydrostatic drive forwards and in reverse
- When all of the hydraulic cylinders are retracted, check the oil level.
- If necessary, top up the oil up to the MAX mark.

11.7 Battery



Charging the battery

Refer to the charger operating manual.
Detach and remove the battery before charging.

Disconnecting the battery

Do not disconnect the terminal clamps until the engine has stopped.
Switch off electrical consumers.
Undo and remove the negative and positive leads in that order.

Reconnecting the battery

Connect the positive and then the negative leads.
Make sure the leads are connected to the correct terminal.

Jump starting

If the battery is flat, the engine can be started using jump leads and a second battery with the same rating. First attach the positive, then the negative jump lead.



Do not allow sparks and flames in the vicinity.



Risk of explosion, explosive gas.

**Do not place metal items on the battery.
Risk of short-circuits.**



Risk of chemical burns.

**Battery acid is caustic. It must not come into contact with skin, eyes or clothing.
Rinse away splashed acid with clear fresh water. Consult a doctor if necessary.**



Protect eyes and face.

Keep children well away.

The DELCO FREEDOM PLUS battery has a HYDROMETER for fast and simple checking of the battery charge level.

Green display:

Battery is sufficiently charged (more than 65%).

Black display:

Battery is not sufficiently charged (less than 65%). The battery must be recharged.

Pale display:

The electrolyte level is too low. The battery must be replaced.

11.8 Fuse box under the seat support

The fuses are located in the electric switch box under the seat support. Undo the two screws to open the box. Replacement fuses can be found in the accessories kit under the seat support. Eliminate the cause of the fuse melting in all cases.

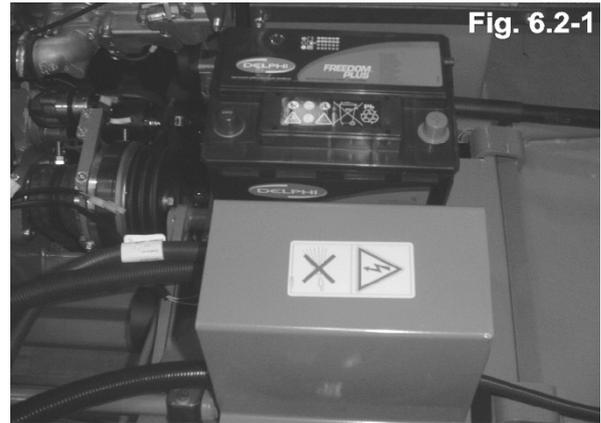


Fig. 6.2-1

- Fuses F1 – F10: 15 A
- Fuse F11: 20 A
- Fuse F12: 40 A
- Relays K1 – K8

F1 =	K1 =
F2 = Left side	K2 = Secured starting
F3 = Right side	K3 = Gasoil solenoid valve
F4 =	K4 =
F5 =	K5 =
F6 =	K6 = 4x4
F7 =	K7 =
F8 = 4x4	K8 =
F9 = 12V Socket	
F10 = General	
F11 =	
F12 =	

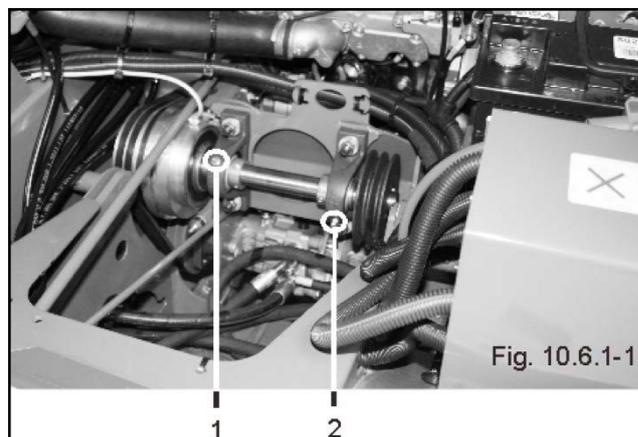
11.9 Lubrication points

The following locations should be lubricated regularly or every time the machine is thoroughly cleaned, in order to keep your Amazone Profihopper working in top condition.

11.9.1 Running gear

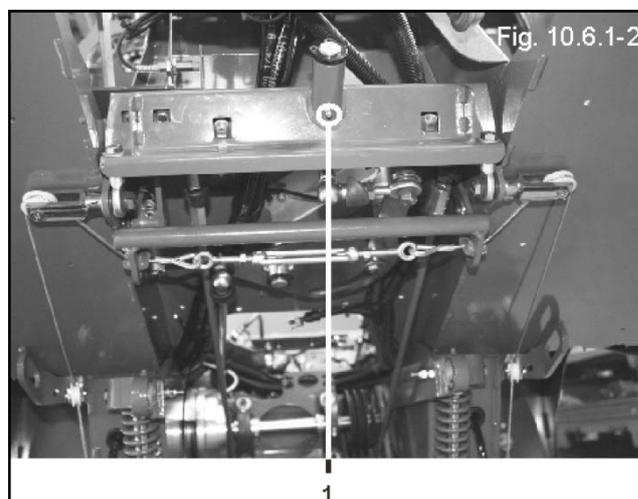
Main drive shaft

- Main drive shaft bearings (Fig. 10.6.1-1)
Every 50 operating hours (2 pump strokes)



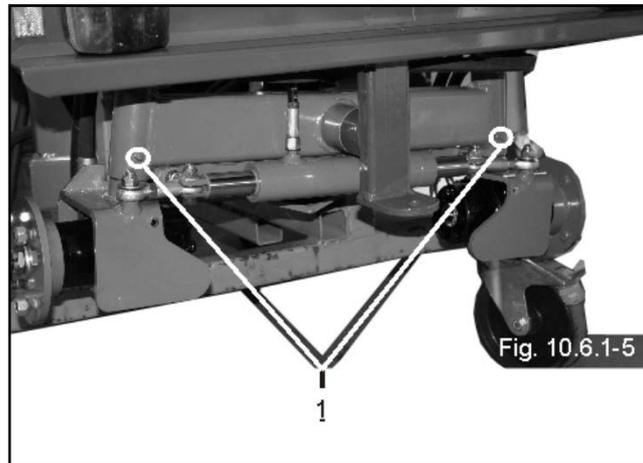
Controls

- Control lever linkages (Fig. 10.6.1-2)
- Links of the foot throttle



Rear wheels

- Rear wheel bearings (Fig. 10.6.1-5)



11.9.2 Mower unit

- Overload safety (every 150 operating hours only) (Fig. 10.6.2-1)



CAUTION

Excess grease can easily reach the lower protection plate on the belt drives and damage it (Fig. 10.6.2-2).

- Front wheel fork bearings (Fig. 10.6.2-3/1)
- Support bracket linkage (Fig. 10.6.2-3/2)
- Rear cage roller bearing (Fig. 10.6.2-3/3).
- Connecting arm bearing (Fig. 10.6.2-4 and Fig. 10.6.2-5)



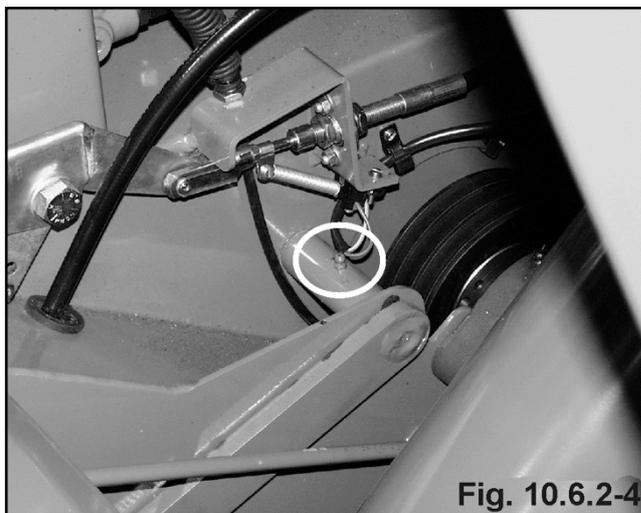
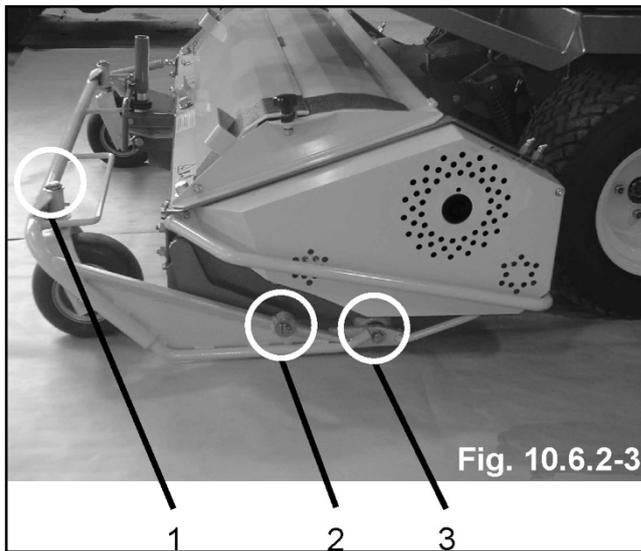




Fig. 10.6.2-5

- Mower unit drive shaft bearing (Fig. 10.6.2-6 and Fig. 10.6.2-7)
There are 2 lubrication nipples of the drive shaft bearings.



Fig. 10.6.2-6

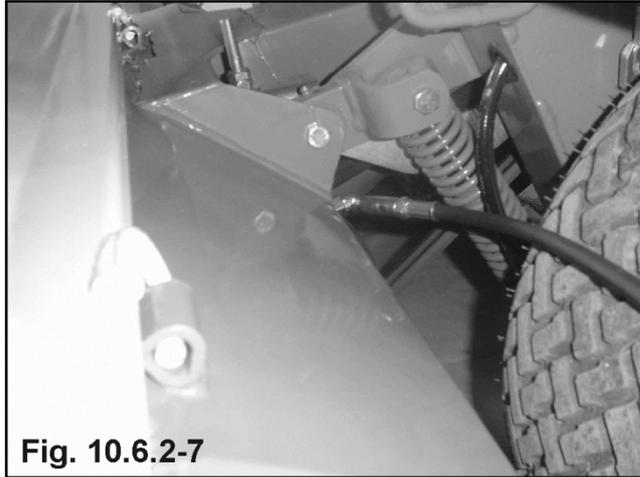


Fig. 10.6.2-7

- Longitudinal worm drive shaft bearings (Fig. 10.6.2-8)

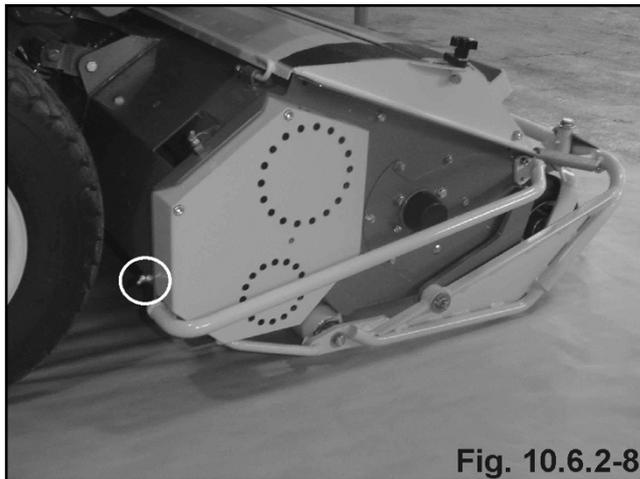


Fig. 10.6.2-8

- Longitudinal work drive cross-linkage (Fig. 10.6.2-9)

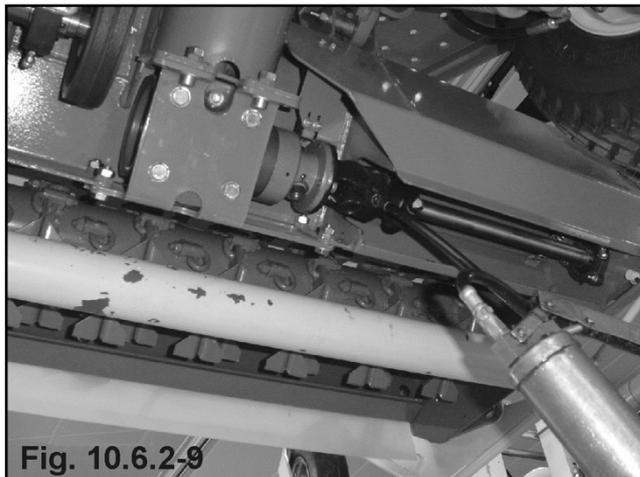
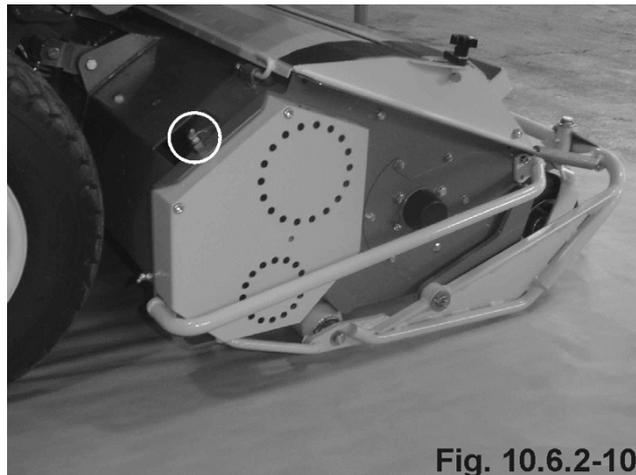
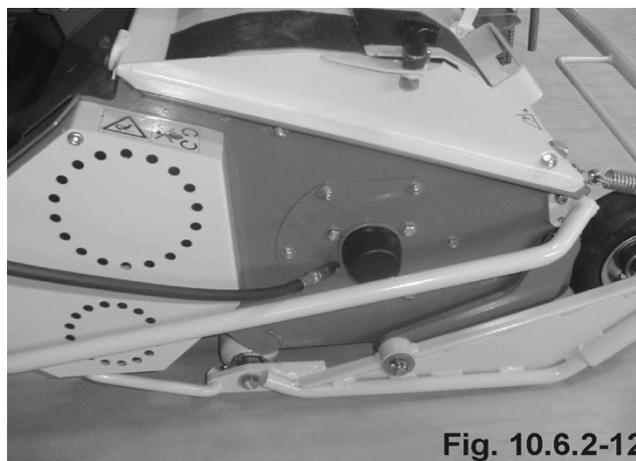
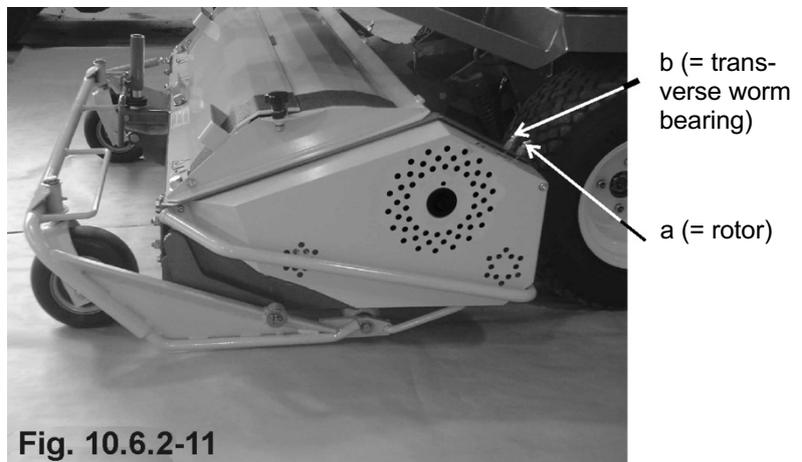


Fig. 10.6.2-9

- Transverse worm bearings (Fig. 10.6.2-10 + Fig. 10.6.2-11)



- Rotor bearings (Fig. 10.6.2-11 + Fig. 10.6.2-12)



- Height adjustment (Fig. 10.6.2-13)





11.10 Rear wheel shock absorbers

Workshop work

Readjustment of the V-belts must only be carried out by a certified specialist workshop

Drive	Number of belts	Static tension	
		Natural frequency*	
		Init. installation	After running-in
Fan drive	1	250 N – 300 N	200 N – 250 N
		156 Hz – 171 Hz	140 Hz – 156 Hz
Main drive	2 Single belt	380 N – 430 N	330 N – 380 N
		97 Hz – 103 Hz	91 Hz – 97 Hz
Main drive	1 Compound belt	760 N – 860 N	660 N – 760 N
		86 Hz – 92 Hz	80 Hz – 86 Hz
Mower unit drive	2 Single belt	380 N – 430 N	330 N – 380 N
		57 Hz – 61 Hz	53 Hz – 57 Hz
Mower unit drive	1 Compound belt	840 N – 940 N	800 N – 900 N
		53 Hz – 56 Hz	52 Hz – 55 Hz
Rotor drive	5	380 N – 430 N	330 N – 380 N
		167 Hz – 177 Hz	155 Hz – 167 Hz
Longitudinal worm drive	3	380 N – 430 N	330 N – 380 N
		254 Hz – 270 Hz	237 Hz – 254 Hz

* Natural frequency of the greatest length between 2 V-belt pulleys



11.11 Long periods without use, overwintering

- Clean the machine thoroughly.
- Carry out all lubrication.
- Empty the fuel tank.
- Disconnect the battery, see 11.7, or activate the battery disconnecter (optional), see 7.1.2.
- Disconnect the battery (see 10.5).
- Store the battery in a dry, cool and frost-free place.
- Check the condition of the V-belts. Contact Service if they need replacing.
- Make sure there is sufficient antifreeze in the cooling system.
- Store the machine in a dry place.

11.12 Maintenance plan

PROFIHOPPER

Entretien - Wartung - Maintenance -
Mantenimiento - Техническое обслуживание

8	G		C	C		C	C			C	
50		G		R1	R1			R1			C
125				R	R						
250								R	R	R	
500						R	R				R

G Graissage NLGI 3 EP
Schmierung
Greasing
Lubricación
Смазка

C Contrôle
Kontrolle
Checking
Control
Контроль

R Remplacement
Wechsel
Replacement
Cambio
Замена

R1 1er Remplacement
1. Wechsel
1st Replacement
1. Cambio
1-я Замена

Nombre d'heures
Betriebsstunden
Hours
Horas operativas
Часы эксплуатации

Point de graissage
Schmierstelle
Greasing points
Punto de lubricación
Точка смазки

Rotor de tonte
Mährotor
Mowing rotor
Rotor de cosechado
Косилочный ротор

Huile moteur 3,4 L
Motoröl
Engine Oil
Aceite de motor
Моторное масло

Filtre à huile moteur
Motorölfilter
Engine oil filter
Filtro del aceite de motor
Фильтр для моторного масла

Filtre à air
Luftfilter
Air filter
Filtro de aire
Воздушный фильтр

Liquide de refroidissement moteur
Motorkühflüssigkeit 6,5 L
Engine coolant
Refrigerante de motor
Охлаждающая жидкость для двигателя

Huile circuit hydraulique
Hydrauliköl
Hydraulic oil
Aceite hidráulico
Гидравлическое масло

Filtre à huile hydraulique
Hydraulikölfilter
Hydraulic oil filter
Filtro de aceite hidráulico
Фильтр для гидравлического масла

Filtre à carburant
Kraftstofffilter
Fuel filter
Filtro de combustible
Топливный фильтр

Courroies
Riemen
Drive belts
correas de transmisión
приводные ремни

ME1359 (fr/dep/es/ru)



11.13 Maintenance reports

<p style="text-align: center;">MAINTENANCE REPORT</p> <p>Date: _____ Mechanic: _____</p> <p>Report no.: _____</p> <p>Operating hours: _____</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="width: 10%; text-align: center;">YES</th> <th style="width: 20%; text-align: center;">NO</th> </tr> </thead> <tbody> <tr><td>Engine oil change</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Hydraulic oil change</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Engine oil filter</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Hydraulic oil filter</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Air filter (x2)</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Fuel filter</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> </tbody> </table> <p>Other: _____</p> <p>Next service on: _____</p> <p style="text-align: center;"><i>Dealer stamp and signature</i></p>		YES	NO	Engine oil change	<input type="checkbox"/>	<input type="checkbox"/>	Hydraulic oil change	<input type="checkbox"/>	<input type="checkbox"/>	Engine oil filter	<input type="checkbox"/>	<input type="checkbox"/>	Hydraulic oil filter	<input type="checkbox"/>	<input type="checkbox"/>	Air filter (x2)	<input type="checkbox"/>	<input type="checkbox"/>	Fuel filter	<input type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">MAINTENANCE REPORT</p> <p>Date: _____ Mechanic: _____</p> <p>Report no.: _____</p> <p>Operating hours: _____</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="width: 10%; text-align: center;">YES</th> <th style="width: 20%; text-align: center;">NO</th> </tr> </thead> <tbody> <tr><td>Engine oil change</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Hydraulic oil change</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Engine oil filter</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Hydraulic oil filter</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Air filter (x2)</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Fuel filter</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td></tr> </tbody> </table> <p>Other: _____</p> <p>Next service on: _____</p> <p style="text-align: center;"><i>Dealer stamp and signature</i></p>		YES	NO	Engine oil change	<input type="checkbox"/>	<input type="checkbox"/>	Hydraulic oil change	<input type="checkbox"/>	<input type="checkbox"/>	Engine oil filter	<input type="checkbox"/>	<input type="checkbox"/>	Hydraulic oil filter	<input type="checkbox"/>	<input type="checkbox"/>	Air filter (x2)	<input type="checkbox"/>	<input type="checkbox"/>	Fuel filter	<input type="checkbox"/>	<input type="checkbox"/>
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	YES	NO
Engine oil change	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil change	<input type="checkbox"/>	<input type="checkbox"/>
Engine oil filter	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filter	<input type="checkbox"/>	<input type="checkbox"/>
Air filter (x2)	<input type="checkbox"/>	<input type="checkbox"/>
Fuel filter	<input type="checkbox"/>	<input type="checkbox"/>

Other: _____

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Engine oil change	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil change	<input type="checkbox"/>	<input type="checkbox"/>
Engine oil filter	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filter	<input type="checkbox"/>	<input type="checkbox"/>
Air filter (x2)	<input type="checkbox"/>	<input type="checkbox"/>
Fuel filter	<input type="checkbox"/>	<input type="checkbox"/>

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Engine oil filter	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic oil filter	<input type="checkbox"/>	<input type="checkbox"/>
Air filter (x2)	<input type="checkbox"/>	<input type="checkbox"/>
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France

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