

Original operating manual

Self-propelled mower
Profihopper 1500 SmartLine





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Please enter the identification data of the implement. The identification data can be found on the rating plate.



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About this operating manual

CMS-T-00000081-J.1

1.1 Copyright

CMS-T-00012308-A.1

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1.2 Diagrams

CMS-T-005676-G.1

1.2.1 Warnings and signal words

CMS-T-00002415-A.1

Warnings are marked with a vertical bar with a triangular safety symbol and the signal word. The signal words "DANGER", "WARNING" or "CAUTION" describe the severity of the potential danger and have the following meanings:



DANGER

Indicates a direct threat with high risk for severe physical injury, such as loss of limbs or death.



WARNING

Indicates a possible threat with moderate risk for severe physical injury or death.



CAUTION

Indicates a threat with low risk for light or moderately severe physical injuries.

1.2.2 Further instructions





IMPORTANT

Indicates a risk for damage to the implement.



ENVIRONMENTAL INFORMATION

Indicates a risk for environmental damage.



NOTE

Indicates application tips and instructions for optimal use.

1.2.3 Instructions

CMS-T-00000473-E

1.2.3.1 Numbered instructions

CMS-T-005217-B.1

Actions that have to be performed in a specific sequence are represented as numbered instructions. The specified sequence of the actions must be observed.

Example:

- 1. Instruction 1
- 2. Instruction 2

1.2.3.2 Instructions and responses

CMS-T-005678-B.1

Reactions to instructions are marked with an arrow.

Example:

- 1. Instruction 1
- → Reaction to instruction 1
- 2. Instruction 2

1.2.3.3 Alternative instructions

CMS-T-00000110-B.1

Alternative instructions are introduced with the word "or".

Example:

1. Instruction 1

or

Alternative instruction

2. Instruction 2

1.2.3.4 Instructions with only one action

CMS-T-005211-C.1

Instructions with only one action are not numbered, but rather shown with a arrow.

Example:

Instruction

1.2.3.5 Instructions without sequence

CMS-T-005214-C.1

Instructions that do not require a specific sequence are shown as a list with arrows.

Example:

- Instruction
- Instruction
- ► Instruction

1.2.3.6 Workshop work

CMS-T-00013932-B.1



WORKSHOP WORK

▶ Identifies maintenance work that must be performed at a workshop that is adequately equipped in terms of agricultural technology, safety and environmental technology by specialist personnel with appropriate training.

1 | About this operating manual Other applicable documents

1.2.4 Lists

CMS-T-000024-A.1

Lists without an essential order are shown as a list with bullets.

Example:

- Point 1
- Point 2

1.2.5 Item numbers in figures

CMS-T-000023-B.1

A framed number in the text, e.g. a 1, indicates an item number in an adjacent figure.

1.2.6 Direction information

CMS-T-00012309-A.1

Unless otherwise specified, all directions are always seen in the direction of travel.

1.3 Other applicable documents

CMS-T-00000616-B.1

A list of other applicable documents can be found in the Appendix.

1.4 Digital operating manual

CMS-T-00002024-B.1

The digital operating manual and e-learning can be downloaded from the Info Portal on the AMAZONE website.

1.5 Your opinion is important

CMS-T-000059-D.1

Dear reader, our documents are updated on a regular basis. Your suggestions for improvement help us to create ever more user-friendly documents. Please send us your suggestions by post, fax or email. AMAZONEN-WERKE H. Dreyer SE & Co. KG

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Safety and responsibility

2

CMS_T_00002521_I

2.1 Intended use

CMS-T-00002522-A.

- The machine is intended solely for conventional use for the maintenance of green areas and parks.
- The machine is a self-propelled implement.
- The machine is suitable and intended for mowing, scarifying and rolling green areas as well as for collecting and shredding the mowed material. Moreover, the machine is suitable for collecting e.g. leaves, twigs, acorns, chestnuts and other rubbish on the green area.
- When driving on public roads, the machine must comply with the provisions of the applicable road traffic regulations.
- The machine may only be used and maintained by persons who fulfil the requirements. The personnel requirements are described in the section "Personnel qualification".
- The operating manual is part of the machine. The machine is solely intended for use in compliance with this operating manual. Uses of the machine that are not described in this operating manual can lead to serious personal injuries or even death and to machine and material damage.
- The applicable accident prevention regulations as well as generally accepted safety-related, occupational health and road traffic regulations must also be observed by the users and the owner.
- Further instructions for intended use in special cases can be requested from AMAZONE.
- Uses other than those specified under the intended use are considered as improper. The manufacturer is not liable for any damage resulting from improper use, solely the operator is responsible.

2.2 Basic safety instructions

MS-T-00002523-L1

2.2.1 Meaning of the operating manual

CMS-T-00006180-A.1

Observe the operating manual

The operating manual is an important document and a part of the implement. It is intended for the user and contains safety-related information. Only the instructions provided in the operating manual are reliable. If the operating manual is not observed, it can result in serious injury or death.

- ► The safety section must be completely read and observed before initial operation of the implement.
- ▶ Before starting work, also read and observe each section of the operating manual.
- Keep the operating manual in a safe place.
- Keep the operating manual available.
- ► Hand over the operating manual to the subsequent user.

2.2.2 Safe operating organisation

CMS-T-00002524-E.

2.2.2.1 Personnel qualification

CMS-T-00002525-B.1

2.2.2.1.1 Requirements for persons working with the implement

CMS-T-00002310-C.

If the implement is used improperly, people can be injured or killed: To prevent accidents due to improper use, every person who works with the implement must meet the following minimum requirements:

- The person is physically and mentally capable of controlling the machine.
- The person can safely perform work with the machine within the scope of this operating manual.
- The person understands the functioning of the machine within the scope of their work and can recognise and prevent dangers arising during operation.
- The person head understood the operating manual and can implement the information that is conveyed in the operating manual.
- The person must be familiar with safe driving of vehicles.
- For road travel, the person knows the relevant road traffic regulations and has the prescribed driving permit.

2.2.2.1.2 Qualification levels

CMS-T-00002526-A.1

For working with the machine, the following qualification levels are provided:

- Skilled worker for communal equipment or farmer
- · Communal equipment or agricultural helper

As a matter of principle, the activities described in this operating manual can be performed by persons with the qualification level "Communal equipment or agricultural helper".

2.2.2.1.3 Skilled worker for communal or agricultural equipment

CMS-T-00002527-A.1

Skilled workers for communal equipment or farmers use machines to maintain green areas and parks. They decide on the use of a machine for a specific purpose.

Skilled workers for communal equipment or farmers are basically familiar with working with machines for the maintenance of green areas and parks, and if necessary, can instruct communal equipment and agricultural helpers in how to use the machines. They can perform odd tasks and simple maintenance and repair work on communal machines themselves.

Skilled workers for communal equipment or farmers can be e.g.:

- Skilled workers with training in the area of communal equipment.
- Skilled workers by experience, e.g. with comprehensive practical knowledge.
- Farmers with higher education or training from a technical college.
- Farmers by experience, e.g. with an inherited farm or comprehensive practical knowledge.
- Contractors who work by order of municipalities.

Activity example:

Safety training for communal equipment or agricultural helpers.

2.2.2.1.4 Communal equipment and agricultural helpers

CMS-T-00002528-A.1

Communal equipment and agricultural helpers use machines by order of a skilled worker or the farmer. They are instructed on the use of the machine by the skilled worker or the farmer, and work independently

2 | Safety and responsibility Basic safety instructions

according to the work assignment from the skilled worker or farmer.

Communal equipment and agricultural helpers can be e.g.:

- Employees of municipalities, contractors or service providers
- Seasonal workers and labourers
- Prospective skilled workers for communal equipment in training
- Prospective farmers in training
- Employees of the farmer, e.g. tractor driver
- Family members of the farmer

Activity examples:

- Driving the machine
- · Adjusting the mowing height

2.2.2.2 Workplaces and passengers

CMS-T-00002530-B.1

Passengers

Passengers can fall, be run over and severely injured or killed due to machine movements. Ejected objects can hit and injure passengers.

- Do not let anybody ride on the machine.
- ▶ Do not let anybody climb onto the driving machine.

2.2.2.3 Danger for children

CMS-T-00002531-A.1

Danger for children

Children cannot assess dangerous situations and can behave unpredictably. As a result, children are at a higher risk.

- Keep children away.
- When you drive out or actuate machine movements, make sure that there are no children in the danger area.

2.2.2.4 Operational safety

CMS-T-00005215-B.1

2.2.2.4.1 Perfect technical condition

CMS-T-00014396-A.1

Only use properly prepared machines

Without correct preparation according to this operating manual, operational safety of the machine is not ensured. This can result in accidents and serious personal injury or even death.

▶ Prepare the machine according to this operating manual.

Danger due to damage to the machine

Damage to the machine can impede the operational safety of the machine and cause accidents. This can result in serious injury or death.

- ► If you suspect or observe damage: Secure the machine.
- Repair safety-relevant damage immediately.
- Fix the damage according to this operating manual.
- ► If you are not able to fix the damage according to this operating manual yourself: Have the damage repaired by a qualified specialist workshop.

Observe the technical limit values

Non-observance of the technical limits values of the machine can result in accidents and serious personal injury or even death. Moreover, the machine can be damaged. The technical limit values can be found in the Technical Data.

Comply with the technical limit values.

2.2.2.4.2 Protective equipment

CMS-T-00005219-A.1

Make sure that the protective equipment is functional

If protective equipment is missing, damaged or removed, implement parts can cause serious personal injury or even death.

- ► Check the implement at least once a day for damage, proper installation, and functioning of the protective equipment.
- ► If you are not sure if the protective equipment is properly installed and functional, have the protective equipment checked by a qualified specialist workshop.
- ► Make sure that the protective devices are properly installed and functional before any work on the implement.
- Replace damaged protective equipment.

2.2.2.4.3 Personal protective equipment

CMS-T-00005216-A 1

Personal protective equipment

Wearing personal protective equipment is an important safety element. Missing or unsuitable personal protective equipment increases the risk of damage to health and personal injury. Personal protective equipment includes: work gloves, safety shoes, protective clothing, breathing protection, hearing protection, face protection, and eye protection

- Determine the personal protective equipment required for each job and have it ready.
- Use only protective equipment that is in proper condition and offers effective protection.
- Adjust the personal protective equipment to the person, e.g. the size.
- ▶ Observe the manufacturer's instructions regarding operating materials, seed, fertiliser, crop protection products, and cleaning agents.

Wear suitable clothing

Loosely worn clothing increases the risk of getting caught or entangled on rotating parts and getting stuck on protruding parts. This can result in serious injury or death.

- Wear close-fitting, snag-free clothes.
- Never wear rings, necklaces and other jewellery.
- If you have long hair, wear a hairnet.

2.2.2.4.4 Warning symbols

CMS-T-00005217-A.1

Keep warning symbols legible

Warning symbols on the machine warn you of risks in danger areas and are an important element of the machine's safety equipment. Missing warning symbols increase the risk of serious and lethal personal injury.

- Clean dirty warning symbols.
- Immediately replace any damaged and illegible warning symbols.
- Put the intended warning symbols on spare parts.

2.2.3 Knowing and preventing dangers

CMS-T-00002653-D 1

2.2.3.1 Safety hazards on the machine

CMS-T-00002654-B.1

Danger due to machine parts still running

When the drives are switched off, machine parts can continue running and cause serious personal injury or death.

- ▶ Before approaching the machine, wait until any machine parts that are still running have come to a stop.
- Only touch machine parts that are standing still.

Liquids under pressure

Escaping high pressure hydraulic fluid can penetrate into the body through the skin and cause serious personal injuries. A hole the size of a needle can already result in serious personal injuries.

- ► Before you uncouple the hydraulic hose lines or check for damage, depressurise the hydraulic system.
- ► If you suspect damage on a pressure system, have the pressure system checked by a qualified specialist workshop.
- Never look for leaks with your bare hands.
- ► Keep your body and face away from leaks.
- If liquids penetrate the body, consult a doctor immediately.

2.2.3.2 Danger areas

Dangers areas on the machine

The following basic dangers are encountered in the danger areas:

The machine and its work tools move during operation.

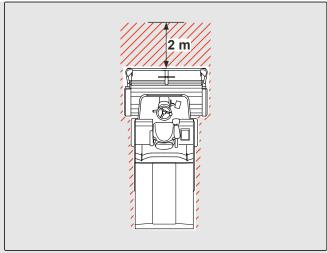
Hydraulically raised machine parts can descend unnoticed and slowly.

The machine can roll away unintentionally.

Materials or foreign objects can be ejected out of or away from the machine.

If the danger area is not observed, it can result in serious personal injury or death.

- Keep people out of the danger area of the machine.
- ► If people enter the danger area, immediately switch off the engines and drives.
- Before you work in the danger area of the machine, secure the machine. This also applies for quick checking work.



2.2.4 Safe operation and handling of the machine

CMS-T-00002656-C

2.2.4.1 Driving safety

CMS-T-00014398-A.1

Risk when driving on roads and fields

The driving characteristics also depend on the operating condition, the fill level of the load, and on the ground. If the driver does not take account of changing driving characteristics, he can cause accidents.

- Always ensure that the machine's steering and braking systems are operating correctly.
- ► To ensure the prescribed brake lag for the machine: Check the function of the brakes before moving off.
- ► Calculate and observe the permitted payload for the machine.
- Observe the permissible axle loads.
- ▶ Drive in such a way that you always have full control over the machine. In so doing, take your personal abilities into account as well as the road, traffic, visibility and weather conditions.

Preparing the machine for road travel

If the machine is not properly prepared for road travel, it can result in serious traffic accidents.

- ► Check the lighting and identification for road travel for proper function.
- ► Remove coarse dirt from the implement.

Parking the implement

The parked machine can tip over. People can be crushed and killed.

- Only park the machine on stable and even ground.
- Before you perform setting or maintenance work:
 Make sure that the machine is in a stable position. In case of doubt, support the implement.

Unsupervised parking

Machines that are insufficiently secured and unsupervised represent danger for people and playing children.

- Before you leave the machine, shutdown the machine.
- Secure the machine.

2.2.5 Safe maintenance and modification

CMS-T-00002658-G

2.2.5.1 Changes to the machine

CMS-T-00002659-A.1

Only authorised design changes

Design changes and extensions can impede the functioning and operational safety of the machine. This can result in serious injury or death.

Vehicles with an official operating permit must be in the state specified by the permit. The same applies for devices and equipment that are connected to a vehicle that has a valid operating permit or approval for road traffic according to German road traffic regulations. This vehicle must also be in the state specified by the permit.

- ▶ Have any design changes and extensions performed only by a qualified specialist workshop.
- ► When making design changes, observe the permissible axle loads, drawbar loads and total weights of the machine.
- ► To ensure that the operating permit remains valid in accordance with national and international regulations,
 - use only conversion parts, spare parts and special equipment approved by AMAZONE.

2.2.5.2 Work on the machine

MS-T-00002323-I.1

Only work on the machine when it is at a standstill

If the machine is not standing still, part can move unintentionally or the machine can be set in motion. This can result in serious injury or death.

- ► If you have to work on or under raised loads:

 Lower the loads or secure the loads with a hydraulic or mechanical locking device.
- Switch off all drives.
- Actuate the parking brake.
- Particularly on slopes, additionally secure the machine against rolling away with wheel chocks.
- ► Remove the ignition key and carry it with you.
- ▶ Wait until all parts that are still running come to a stop and that hot parts cool down.

Maintenance work

Improper maintenance work, particularly on safety-related components, endangers operational safety. This can result in accidents and serious personal injury or even death. Safety-related components include, for example, hydraulic components, electronic components, frames, springs, trailer coupling, axles and axle suspensions, lines and tanks containing flammable substances.

- Before you adjust, maintain or clean the machine, secure the machine.
- Repair the machine according to this operating manual.
- Only perform the work that is described in this operating manual.
- ► Have maintenance work that is labelled as "WORKSHOP WORK" performed at a workshop that is adequately equipped in terms of agricultural technology, safety and environmental technology by specialist personnel with appropriate training.
- Never perform welding, drilling, sawing, grinding, and cutting work on the frame, running gear or coupling devices of the implement.
- ► Never modify safety-related components.
- Never drill out existing holes.
- Perform all maintenance work at the prescribed maintenance intervals.



2 | Safety and responsibility Basic safety instructions

Raised implement parts

Raised implement parts can descend unintentionally and crush or kill people.

- Never linger under raised implement parts.
- ► If you have to work on or under raised machine parts, lower the implement parts or secure the raised implement parts with a mechanical support or hydraulic locking device.

Danger due to welding work

Improper welding work, particularly on or close to safety-related components, endangers the operational safety of the implement. This can result in accidents and serious personal injury or even death. Safety-related components include, for example, hydraulic components and electronic components, frames, springs, coupling devices to the tractor such as the three-point mounting frame, drawbar, trailer support, trailer coupling or tensioned crosspiece as well as axles and axle suspensions, lines and tanks containing flammable substances.

- Allow only qualified specialist workshops with suitably approved personnel to perform welding work on safety-related components.
- Only allow qualified personnel to perform welding work on all other components.
- ► If you have doubts as to whether a component can be welded: Ask a qualified specialist workshop.
- ► Before welding on the implement:
 Uncouple the implement from the tractor.
- ▶ Do not weld close to a crop protection sprayer that was previously used to spread liquid fertiliser.

2.2.5.3 Operating materials

CMS-T-00002661-B.1

Unsuitable operating materials

Operating materials that do not meet AMAZONE requirements can cause implement damage and accidents.

Only use operating material that meet the requirements in the Technical Data.

2.2.5.4 Special equipment and spare parts

CMS-T-00002662-A.1

Special equipment and spare parts

Special equipment and spare parts that do not meet AMAZONE requirements can impede the operational safety of the machine and cause accidents.

- Only use original parts or parts that meet AMAZONE requirements.
- ▶ If you have questions relating to equipment or spare parts, contact your dealer or AMAZONE.

2.3 Safety routines

CMS-T-00002673-B.1

Only work on the machine when it is at a standstill

If the machine is not standing still, part can move unintentionally or the machine can be set in motion. This can result in serious injury or death.

▶ Before performing any work on the machine, shutdown and secure the machine.

Securing the machine

If the machine is not secured against unintentional starting and rolling away, the machine can be set in motion in an uncontrolled manner, and can run over, crush and kill people.

- ▶ Lower any raised machine parts. Relieve pressure in the hydraulic lines by actuating the operating devices. If it is necessary to go under the machine or components: Before starting to work, secure the raised machine or components mechanically against lowering. Otherwise, the machine or components can slowly descend unnoticed and crush people.
- Switch off the engine.
- ► Actuate the parking brake of the machine.
- Remove the ignition key.
- ► Secure the machine against unintentionally rolling away on level ground by applying the parking brake.
- On uneven ground or on slopes using wheel chocks and the parking brake.

Make sure that the protective equipment is functional

If protective equipment is missing, damaged or removed, implement parts can cause serious personal injury or even death.

- ► Check the implement at least once a day for damage, proper installation, and functioning of the protective equipment.
- ► If you are not sure if the protective equipment is properly installed and functional, have the protective equipment checked by a qualified specialist workshop.
- ► Make sure that the protective devices are properly installed and functional before any work on the implement.
- Replace damaged protective equipment.

Climbing on and off

Negligent behaviour while climbing on and off can cause people to fall off the ladder. People who climb onto the machine without using the intended access steps can slip, fall, and suffer severe injury.

- Use only the intended access steps
- Dirt as well operating materials can impede walking safety and stability.
 Always keep steps and platforms clean and in proper condition, so that safe stepping and standing is ensured.
- Never climb onto the machine when it is in motion.
- Climb up and down facing the machine.
- ▶ When climbing up and down, maintain 3-point contact with the access steps and handrails: always keep two hands and one foot or two feet and one hand on the machine.
- ▶ When climbing up and down, never hold onto the control elements. Accidental actuation of control elements can unintentionally activate potentially dangerous functions.
- When climbing down, never jump off of the machine.

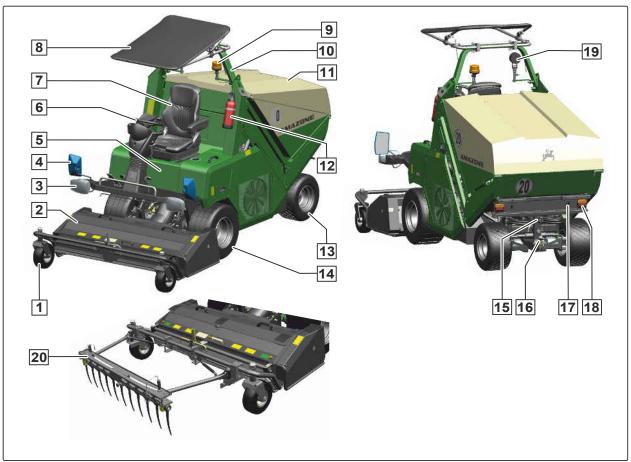
Product description

3

CMS-T-00009314-G.1

3.1 Overview of the machine without cab

CMS-T-00002409-G.1



- 1 Cutting deck support wheel
- 3 Front lighting for road travel
- 5 Threaded cartridge under the seat carrier
- 7 Driver's seat
- 9 LED warning beacon
- 11 Grass collector
- **13** Rear wheels, steerable
- | 15 | Socket, power supply for the trailer

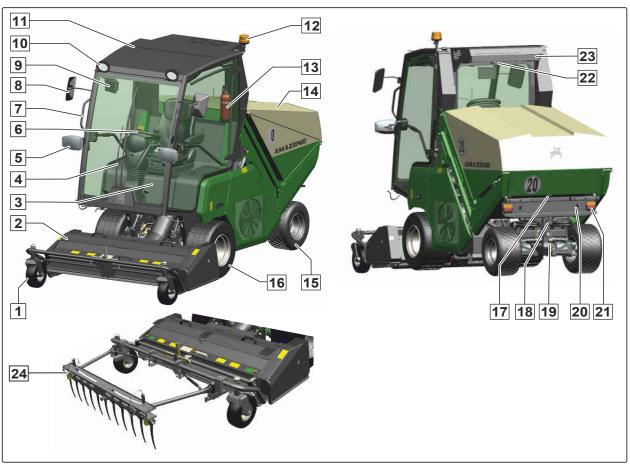
- 2 Cutting deck
- 4 Exterior rearview mirror
- 6 Steering wheel and controls
- 8 Weatherproof tarpaulin
- 10 Roll-over protection
- 12 Fire extinguisher
- 14 Front wheels
- 16 Trailer coupling

- 17 Licence plate lighting
- 19 Work floodlights

- 18 Rear lights
- 20 Insect protection

3.2 Overview of the machine with cab

CMS-T-00006622-D.1

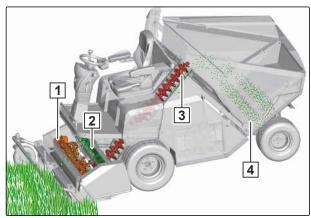


- 1 Cutting deck support wheel
- Threaded cartridge under the seat carrier
- 5 Front lighting for road travel
- 7 Holding point
- 9 Monitor for camera system
- **11** Cab
- 13 Fire extinguisher
- 15 Rear wheels, steerable
- 17 Camera
- 19 Trailer coupling
- 21 Rear lights
- 23 Air conditioning system

- 2 Cutting deck
- 4 Windscreen wipers
- 6 Steering wheel and controls
- 8 Exterior rearview mirror
- 10 Work floodlights
- 12 LED warning beacon
- 14 Grass collector
- 16 Front wheels
- 18 Socket, power supply for the trailer
- 20 Licence plate lighting
- 22 Camera
- 24 Insect protection

3.3 Functioning of the machine

The rotor 1 and the cutting blades installed on the rotor convey the clippings or collected material to the cross auger 2. The cross auger 2 conveys the clippings to the middle. The feed auger 3 picks up the clippings and transports them to the grass collector 4.



CMS-I-00002258

CMS-T-00002432-B.1

3.4 Special equipment

CMS-T-00009446-D.1

- Cab
- Prestige driver's seat
- Lighting and identification for road travel
- LED warning beacon
- Work floodlights
- Exterior rearview mirror
- Trailer hitch
- Radio in the cab
- Air conditioning system
- Airless hollow chamber rubber tyres for the cutting deck
- Fire extinguisher
- Weatherproof tarpaulin
- Camera system
- Insect protection

3.5 Protective equipment

CMS-T-00002403-F

3.5.1 Safety switch

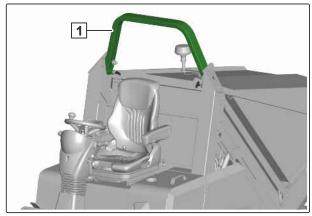
CMS-T-00002614-B.1

Position of the safety switch	Task
Safety switch on the engine	Switches the cutting deck off if the engine temperature exceeds 110°C.
Safety switch on the driver's seat	Switches the engine off when the driver's seat is not occupied and the parking brake is not applied.
	Switches the engine off if the driver's seat is not occupied and the cutting deck is still switched on.
Safety switch on the grass collector	Switches the engine off if the grass collector is raised and the cutting deck is still switched on.
Safety switch on the cover of the grass collector	Switches the cutting deck off if the grass collector is completely full.
Safety switch on the cutting deck	Switches the electromagnetic coupling off if the augers are blocked or come to a standstill.

3.5.2 Roll-over protection on machines without a cab

CMS-T-00002414-C.1

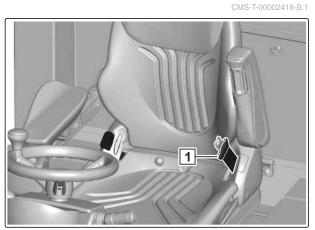
If the machine tips over, the roll-over protection 1 protects the driver from injury if he is wearing his seat belt. To be able to drive under obstacles, the roll-over protection can be folded down.



CMS-I-00002239

3.5.3 Seat belt

The seat belt 1 protects the driver in case of accidents, especially when mowing on slopes.

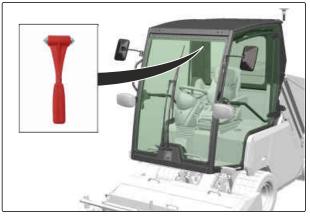


CMS-I-00002237

CMS-T-00006623-A.1

3.5.4 Emergency hammer in the cab

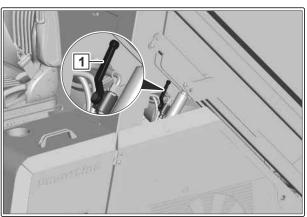
In case of emergency, the emergency hammer can be used to break open a window pane. The broken pane can then be used as an emergency exit.



CMS-I-00004706

3.5.5 Grass collector locking device

The grass collector can be raised to perform maintenance on the engine or to remove blockages in the auger. The grass collector locking devices 1 are located on the left and right side. The grass collector locking devices prevent the raised grass collector from accidentally lowering.

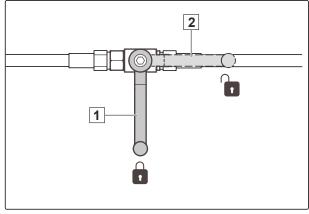


CMS-I-00002236

MG7482-EN-GB | I.1 | 02.10.2024 | © AMAZONE

3 | Product description Protective equipment

- 1 Grass collector is locked
- 2 Grass collector is unlocked

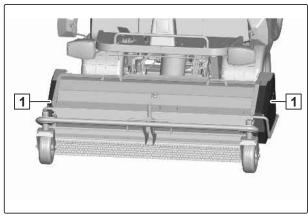


CMS-I-00001022

CMS-T-00002420-C.1

3.5.6 Transmission V-belt protective cover

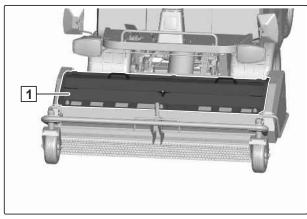
The transmission V-belt protective cover 1 prevents injury from the transmission V-belt. The protective cover completely covers the transmission V-belt.



CMS-I-00002235

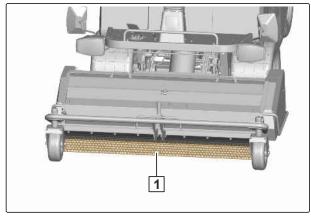
3.5.7 Rotor protective cover

The rotor protective cover 1 prevents injury from the rotor. The rotor protective cover completely covers the rotor.



3.5.8 Chain guard

The chain guard 1 protects against foreign objects that are ejected to the front by the active rotor.



CMS-I-00002233

CMS-T-00004429-B.1

CMS-T-00002417-B.1

3.6 Rating plate and CE mark

The rating plate **1** and CE mark **2** are located on the machine for identification.

The vehicle ID no. 3 is additionally stamped on the front right of the machine.



CMS-I-00002300

The rating plate specifies:

- Vehicle ID no.
- Machine ID no.
- Product name
- Basic weight in kg
- Permissible front axle load in kg
- Permissible rear axle load in kg
- Permissible system pressure in bar
- Permissible total weight in kg
- Factory
- Model year

CE mark with year of construction



CMS-I-00001058

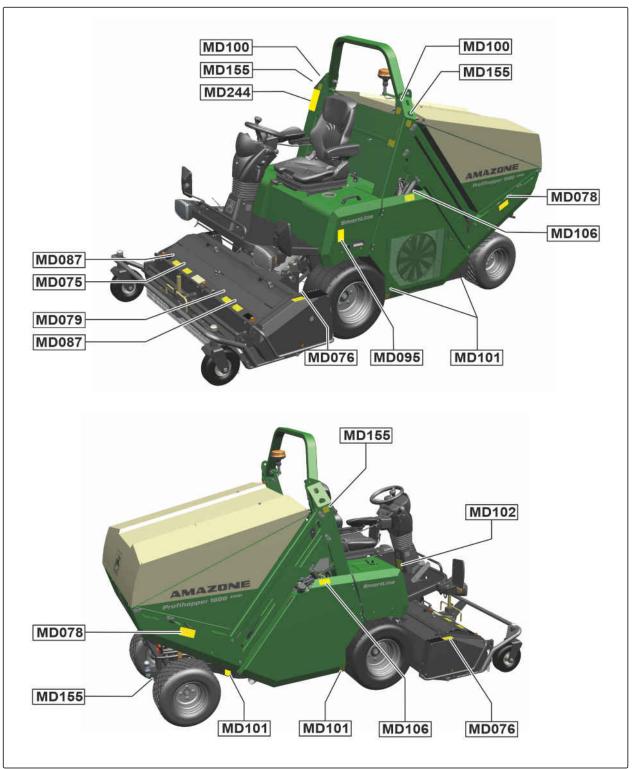


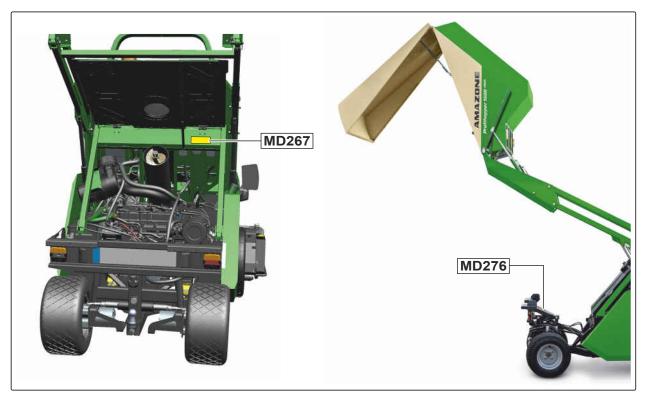
3.7 Warning symbols

MS-T-00002408-H 1

3.7.1 Positions of the warning symbols

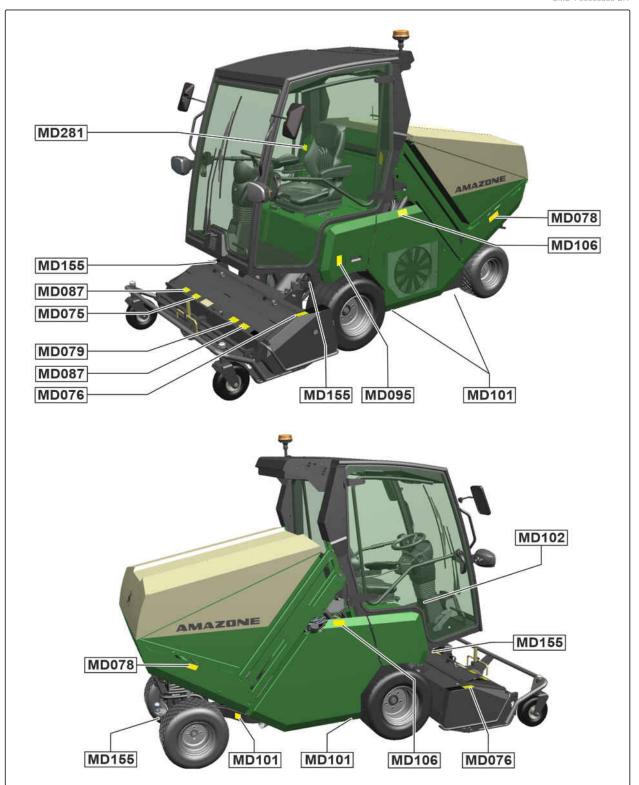
CMS-T-00001182-H.1

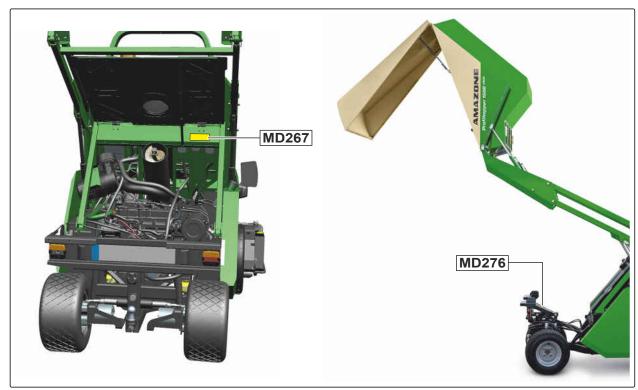




3.7.2 Positions of the warning symbols with cab

CMS-T-00006630-E.1





CMS-I-00002249

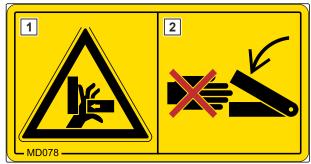
CMS-T-000141-D.1

3.7.3 Layout of the warning symbols

Warning symbols indicate danger areas on the machine and warn against residual dangers. In these danger areas, there are permanent or unexpected dangers.

A warning symbol consists of two fields:

- Field 1 shows the following:
 - A pictogram depicting the danger area, surrounded by triangular safety symbol
 - o The order number
- Field **2** shows a pictogram depicting how to avoid the danger.



CMS-I-00000416

3.7.4 Description of the warning symbols

MD 075

Risk of cuts for fingers, hands, and arms

- Disconnect the power supply from the implement before approaching the danger zone.
- Wait until all moving parts are at a standstill before reaching into the danger area.
- ► Make sure that there is nobody standing in the danger area or close to the moving parts.

STOP

CMS-I-00000418

MD 076

Risk of being drawn in or caught

- Disconnect the power supply from the implement before approaching the danger zone.
- ► Wait until all moving parts are at a standstill before reaching into the danger area.
- ► Make sure that there is nobody standing in the danger area or close to the moving parts.



CMS-I-00000419

MD 078

Risk of crushing fingers or hands

- Disconnect the power supply from the implement before approaching the danger zone.
- Wait until all moving parts are at a standstill before reaching into the danger area.
- ► Make sure that there is nobody standing in the danger area or close to the moving parts.

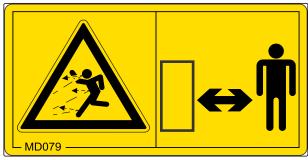


CMS-I-000074

MD 079

Danger due to ejected material

Make sure that there is nobody standing in the danger area or close to the moving parts.



CMS-I-000076

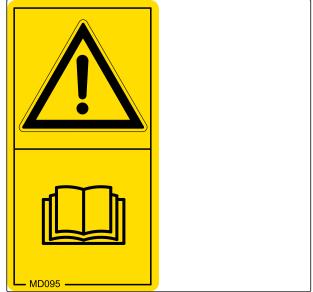
Danger due to cutting and moving machine parts

- Disconnect the power supply from the implement before approaching the danger zone.
- Wait until all moving parts are at a standstill before entering the danger area.
- ► Make sure that there is nobody standing in the danger area or close to the moving parts.

MD095

Risk of accident due to non-compliance with the instructions in this operating manual

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

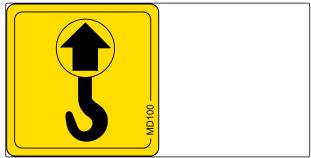


CMS-I-000138

MD 100

Risk of accidents due to improperly attached lifting gear

Only attach the lifting gear at the marked positions.

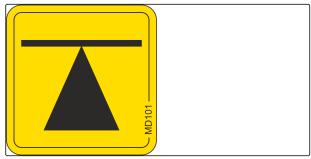


CMS-I-000089

MD 101

Risk of accidents due to improperly attached lifting equipment

Only attach the lifting equipment at the marked positions.



Danger due to unintentional starting as well as unintentional and uncontrolled movements of the implement

▶ Before all tasks, secure the implement against unintentional starting as well as unintentional and uncontrolled movements.



CMS-I-00002253

MD 106

Risk of injury due to folded-up implement parts falling down

 Secure folded-up implement parts against accidental falling down.

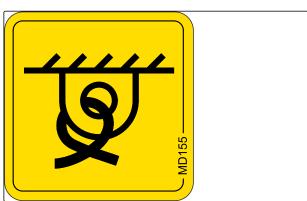


CMS-I-00000427

MD 155

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

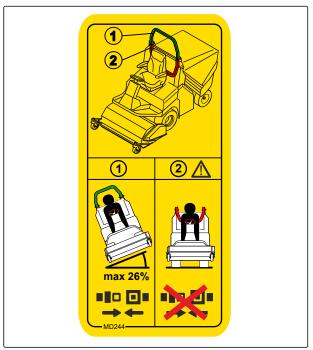
Only attach the lashing belts at the marked lashing positions for transporting the machine.



Danger when driving on steep slopes

When driving contour lines on slopes of more than 26%, the machine can tip over and seriously injure or kill the driver.

- Only drive contour lines on slopes of less than 26%.
- ► Fold up the roll-over protection.
- Secure the roll-over protection.
- Put on your seat belt.
- ► When the roll-over protection is folded down, do not put on your seat belt.



CMS-I-00002441

MD 267

Risk of fire due to grass residues in the area of the engine and exhaust system.

► Clean the area of the engine and exhaust system only with compressed air.



CMS-I-00004983

MD 276

Risk of crushing due to dumped material

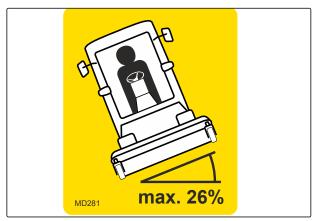
Keep people out of the dumping area of the machine.



Danger when driving on steep slopes

When driving contour lines on slopes of more than 26%, the machine can tip over and seriously injure or kill the driver.

► Only drive contour lines on slopes of less than 26%.



CMS-I-00009563

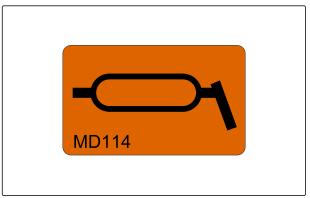
3.8 Other information on the implement

CMS-T-00009451-B.1

CMS-T-00003336-A.1

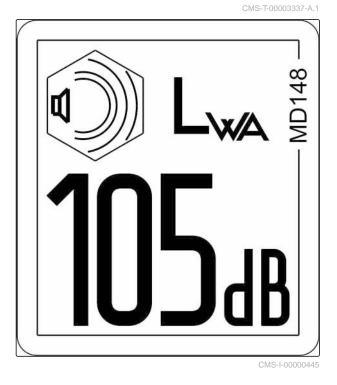
3.8.1 Lubrication point labels

Marks a lubrication point on the implement.



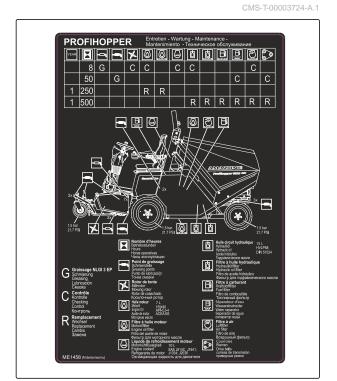
3.8.2 Sound power level label

The sound power level is 105 dB.

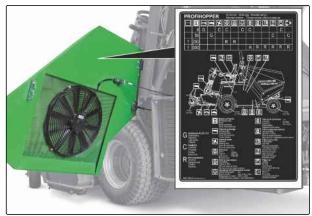


3.8.3 Maintenance overview

Provides an overview of the maintenance work and maintenance intervals.



The maintenance overview can be found on the inside of the radiator cover.



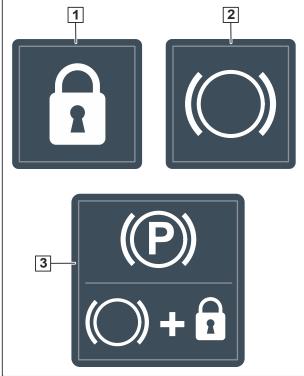
CMS-I-00003109

CMS-T-00009452-B.1

3.8.4 Information on the parking brake

The stickers provide information about the control elements of the brakes and actuation of the parking brake.

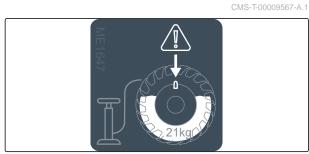
- 1 Brake pedal locking mechanism
- 2 Brake pedal
- 3 Actuating the parking brake



CMS-I-00006411

3.8.5 Information on liquid-filled wheels

The sticker provides information on the filling weight of the liquid-filled wheels and on the required valve position when checking the tyre inflation pressure.



CMS-T-00002839-D.1

3.9 Prestige driver's seat

Compared to the standard driver's seat, the Prestige driver's seat is additionally equipped with a pneumatic longitudinal and cross suspension.



CMS-I-00007146

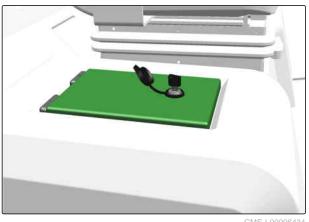
CMS-T-00009448-A.1

3.10 Toolbox

The following objects can be stored in the toolbox:

- Spare blades
- Tools
- Cleaning cloths
- Gloves
- Objects of similar size

As special equipment, the toolbox contains a 12 V socket with a maximum current output of 20 A.

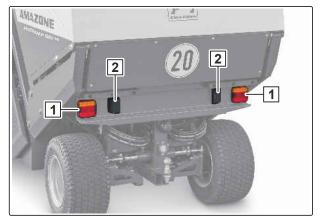


3.11 Lighting and identification for road travel

MS-T-00002407-D 1

Lighting for road travel, to the rear

- 1 Rear lights, brake lights, and turn indicators.
- 2 Licence plate lighting



CMS-I-00002274

Lighting for road travel, to the front without cab

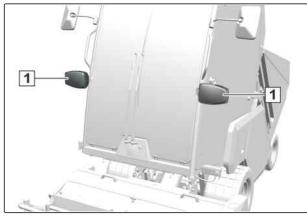
1 Parking lights, dipped headlights, and turn indicators.



CMS-I-00002275

Lighting for road travel, to the front with cab

1 Parking lights, dipped headlights, and turn indicators.

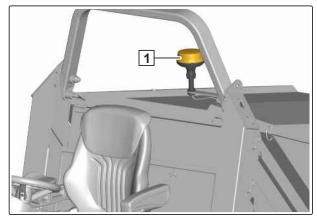


CMS-I-00004712

3.12 Warning beacon

CMS-T-00002419-D.1

The warning beacon 1 signalises the surrounding area of potential hazards when standing in the danger area. When driving on roads, the warning beacon signalises other road users of an obstruction due to a slow vehicle.



CMS-I-00002238

3.13 Work floodlights

CMS-T-00006175-A.1

The work floodlights 1 can be installed as an alternative to the warning beacon. The work floodlights optimally illuminate the working area.



CMS-I-00004388

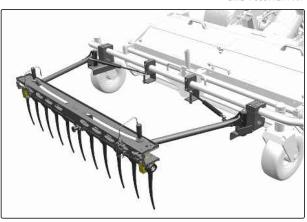
3.14 Insect protection

CMS-T-00017214-A.1

The insect protection startles flying insects and small animals out of the mowing area. This protects insects and small animals from the cutting deck.

In case of collision with an obstacle, the insect protection deflects flexibly. This protects people and animals from injuries and the mechanism from damage.

When driving away from the obstacle, the insect protection moves back to the normal working position.



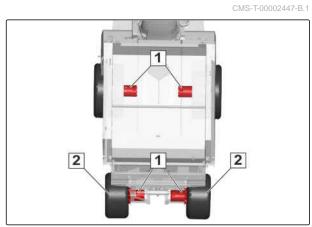
CMS-I-00011588

3.15 Drive

MS-T-00002453-C.1

3.15.1 Four-wheel drive

All four wheel are driven by electro-hydraulically controlled hydraulic motors 1. The steered rear wheels 2 are only additionally driven if necessary. The four-wheel drive functions in forward gear and reverse gear.

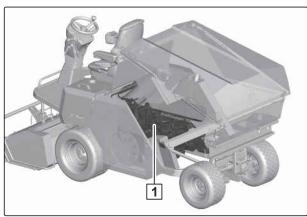


CMS-I-00002269

CMS-T-00002448-B.1

3.15.2 Diesel engine

The diesel engine 1 drives the cutting deck and the hydraulic pumps. The diesel engine is installed in the middle of the machine. Thanks to modern exhaust gas treatment with recirculation and diesel particle filters, no diesel exhaust fluid (DEF) is required.



CMS-I-00002259

3.15.3 Fuel tank

The fuel tank 1 is located on the right side and has a volume of 50 litres.



CMS-I-00002260

CMS-T-00002449-B.1

3.16 Cutting deck

CMS-T-00009449-A 1

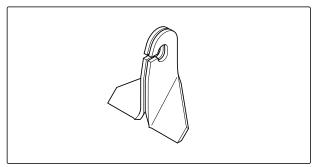
3.16.1 Blades

CMS-T-00001190-B.1

CMS-T-00002840-A.1

3.16.1.1 Flail blade, long H77

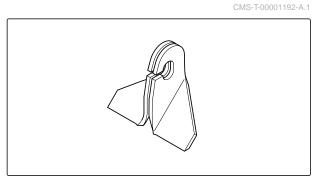
The long flail blade H77 is suitable for mowing and collecting under dry and wet conditions.



CMS-I-00000998

3.16.1.2 Flail blade, short H60

The short flail blade H60 is only used in combination with the scarifying blades. In this combination, the blades are suitable for scarifying and collecting under dry and wet conditions.

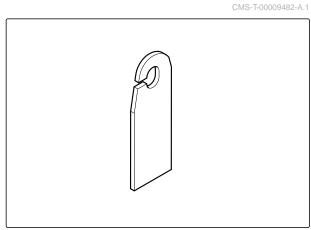


CMS-I-00000997

3.16.1.3 Scarifying blades

The scarifying blade is available with a thickness of 2 mm and 3 mm.

The scarifying blade is suitable for different application areas and blade combinations, see page 84.



3.16.2 Airless tyres

The airless tyres are available as an alternative to the standard tyres for the cutting deck. The puncture protection is considerably increased while maintaining the same driving characteristics.



CMS-I-00006433

CMS-T-00003081-B.1

3.17 High tip emptying

High tip emptying at up to 2.50 m enables rapid emptying on an HGV or trailer.

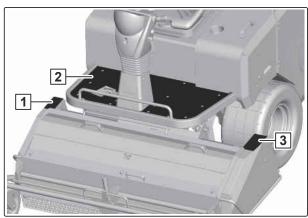


CMS-I-00002904

CMS-T-00002454-C

3.18 Steps and stepping areas

As a climbing aid to the driver's seat, there are antislip areas 1 on the cutting deck. Except for these areas, only the footwell area 2 can be walked on.

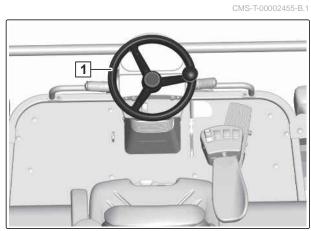


3.19 Control elements

CMS-T-00009315-C.1

3.19.1 Steering wheel

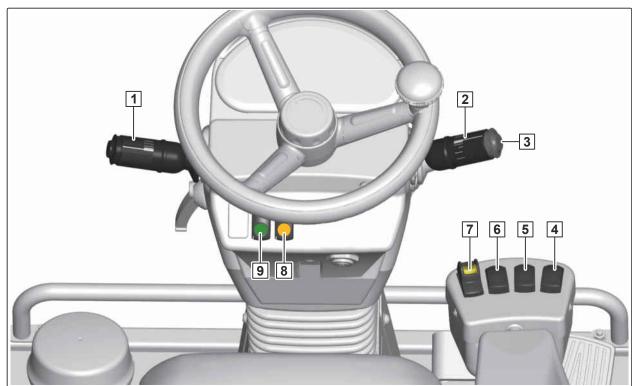
The machine is steered by the rear wheels. The steering wheel 1 with steering knob enable comfortable one-handed steering.



CMS-I-00002264

3.19.2 Operating levers and operating buttons

CMS-T-00002456-C.1



CMS-I-00002262

- 1 Selection lever for direction of travel
- 3 Operating button for the horn
- 5 Operating button for lifting and lowering the grass collector
- 7 Operating button for switching the cutting deck on and off
- 2 Operating lever for turn indicator and light
- 4 Operating button for emptying the grass collector
- **6** Operating button for lifting and lowering the cutting deck
- 8 Operating button for the warning beacon or work floodlights

9 Operating button for cruise control

3.19.3 Control elements in the cab

CMS-T-00006631-C.1



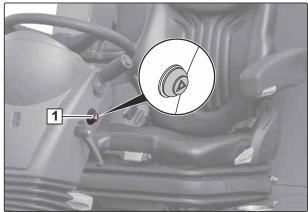
CMS-I-00004716

- 1 3-step switch for the air conditioning fan
- Control button for the air conditioning system
- 5 Operating button for work floodlights
- 2 Temperature regulator for the air conditioning system
- Control button for windscreen wipers and windscreen washer system
- 6 Control button for cab lighting

3.19.4 Hazard warning light

The operating button 1 for the hazard warning light is located on the left of the steering column. When the hazard warning light is switched on, the operating button flashes and both control lamps of the direction indicator on the dashboard. The operating button is only equipped on machines with lighting.

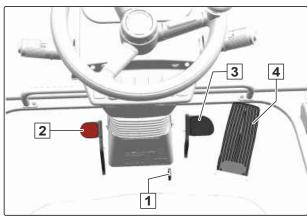




CMS-T-00009316-A.1

3.19.5 Accelerator pedal and brake

- 1 Parking brake locking mechanism
- 2 Auxiliary brake pedal, hill start assist
- 3 Brake pedal
- 4 Accelerator pedal, gas pedal



CMS-I-00006404

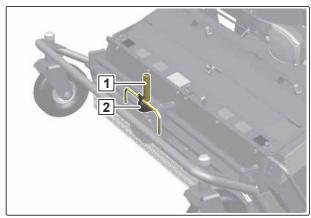
CMS-T-00002517-C.1

3.19.6 Crank

The crank 1 has the following functions:

- Adjusting the cutting height of the cutting deck.
- Open the protective cover.
- Remove blockages in the augers.
- Open and close the grass collector hood.

The crank is stored and fastened in the bracket **2** on the cutting deck.



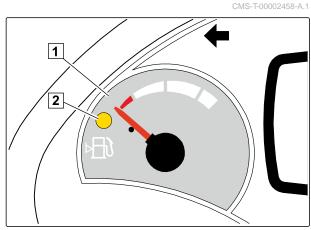
CMS-I-0000231

3.20 Dashboard

CMS-T-00002440-F.1

3.20.1 Fuel indicator

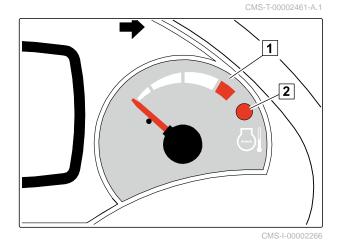
The fuel indicator 1 shows the current fill level of the fuel tank. If the warning lamp 2 lights up, the reserve of the fuel tank has been reached.



CMS-I-00002267

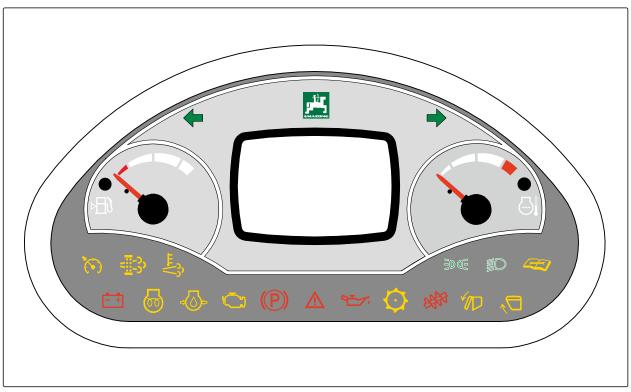
3.20.2 Engine coolant temperature display

The engine coolant temperature display 1 shows the current temperature of the engine coolant. If the warning lamp 2 lights up, the temperature of the engine coolant is too high.



3.20.3 Control lamps and warning lamps

CMS-T-00002459-D.1



CMS-I-00002307

The control lamps and warning lamps indicate warnings, faults or active functions. Control lamps and warning lamps light up when the ignition is switched on, and must be turned off when the engine is running or while driving.

The description of the warning lamps and the possible remedies can be found in the "Troubleshooting" section, see page 146.

Symbol	Meaning	Function	
ল	Cruise control control lamp	Lights up when cruise control is switched on.	
≣ 3)	Diesel particle filter cleaning required control lamp	Lights up when stationary cleaning of the diesel particle filter is required. Remedy see page 111 and see page 146.	
₹3,	Control lamp for high exhaust temperature	Lights up when automatic cleaning of the diesel particle filter with high exhaust temperature is active. Remedy see page 111.	
<u></u>	Control lamp for preheating the diesel engine	Lights up when the diesel engine is preheating.	
⇔ ⊘-	Engine oil pressure control lamp	Lights up when the engine oil pressure is too low.	
	Engine fault warning lamp	Lights up when there is an engine fault. Remedy see page 146.	
Φ	Control lamp for rotor speed	Lights up when the rotor is switched on and being driven. Flashes when Eco mode is active while mowing.	
€	Control lamp for open grass collector	Lights up when the grass collector is open.	
7,	Control lamp for raised grass collector	Lights up when the grass collector is raised.	
Œ	Maintenance control lamp	Lights up when maintenance is due.	
==	Battery voltage warning lamp	Lights up when the battery voltage is too low.	
(P)	Control lamp for parking brake	Lights up when the parking brake is active.	
\triangle	Fault warning lamp	Lights up when there is a fault. Remedy see page 146.	
٩٠٠	Hydraulic oil level warning lamp	Lights up when the hydraulic oil level is too low. Remedy see page 146.	
₩	Warning lamp for blockage on the rotor or augers	Lights up when the rotor or the augers are blocked. Remedy see page 146.	
≣ O	Dipped headlights control lamp	Lights up when the dipped headlights are switched on.	
ED 0E	Parking lights control lamp	Lights up when the parking lights are switched on.	
→	Control lamp for right turn indicator	Flashes when the right turn indicator is switched on.	
+	Control lamp for left turn indicator	Flashes when the left turn indicator is switched on.	

3.20.4 Acoustic fill level indicator for the grass collector

CMS-T-00002463-D.1

The buzzer 1 sounds when the grass collector is full and needs to be emptied.



CMS-I-00002206

3.20.5 Info display

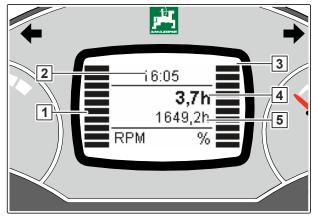
CMS-T-00003066-D.1

3.20.5.1 Normal mode

CMS-T-00002683-D.1

When the machine is being used, the normal mode is the standard display mode. It is possible to toggle between normal mode and job mode, see page 117.

- 1 Current engine speed
- 2 Current time
- 3 Utilisation of the diesel engine in percent
- 4 Time display for the current assignment
- 5 Total operating hours counter



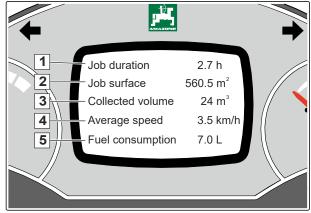
CMS-I-00002297

3.20.5.2 Job mode

CMS-T-00002684-D.

In job mode, the Info display shows the data for the current assignment. It is possible to toggle between normal mode and job mode, see page 117.

- 1 Duration of the current assignment
- Total worked area for the current assignment
- 3 Collected quantity for the current assignment
- 4 Average speed for the current assignment
- 5 Fuel consumption for the current assignment



CMS-I-00002308

CMS-T-00002685-D.1

3.20.5.3 Message mode

If there is a fault on the machine, message mode is activated. The cause of the fault will be displayed on



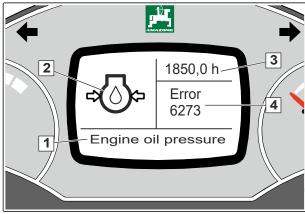
the Info display.

NOTE

The error message cannot be deleted. The error message disappears automatically as soon as the error is fixed.

You can find more information on the individual faults in the "Eliminating faults" section.

- 1 Error message as text
- 2 Symbol for the error message
- 3 Counter reading at the time of the error message
- 4 Error code



CMS-I-00002309

3.20.5.4 Maintenance mode

The information "Perform maintenance" appears at the following intervals:

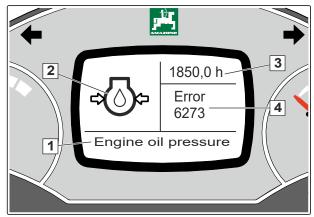
- After the first 50 operating hours.
- Every additional 250 operating hours.



NOTE

In addition, the control lamp lights up on the dashboard.

After finishing maintenance work, the maintenance interval can be reset, see page 117. The maintenance information then appears again after 250 operating hours.



CMS-I-0000242

CMS-T-00002618-C.1

CMS-T-00002756-D.1

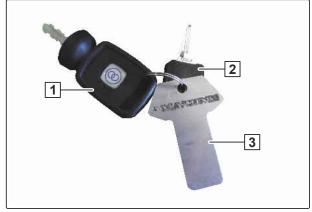
3.21 Key

- Ignition key 1, to start and switch off the machine.
- Key 2, to open the seat carrier and the toolbox beside the driver's seat.
- Special key 3, to open the protective lid on the belt drive guard and the side cover in front of the radiator.



NOTE

Lost keys can be reordered from AMAZONE by indicating the vehicle ID no.



CMS-I-00002360

3.22 Threaded cartridge

The threaded cartridge contains the following items:

- Documents
- Aids



CMS-I-00002306

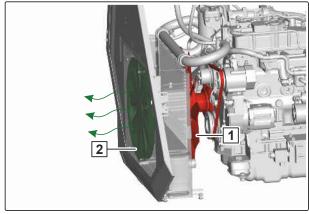
3.23 AMAZONE cooling system - Self-cleaning cooling air system

CMS-T-00002467-C.1

The system removes dust and plant residues from the radiator grille. Plant residues are produced particularly when mulching.

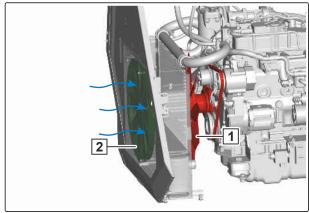
The system works automatically.

The air current of the main fan 1 is intermittently interrupted and the additional cleaning fan 2 reverses the air current. The air current removes plant residues and dust from the grille.



CMS-I-00002299

Afterwards, the cleaning fan 2 is switched off again and the main fan 1 is switched on. The air current can then optimally reach the radiator again.



CMS-I-0000229

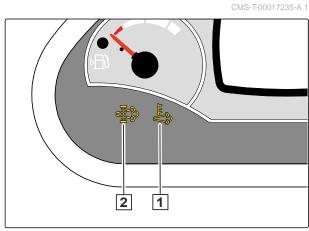
3.24 Automatic diesel particle filter cleaning

The diesel particle filter cleaning is performed automatically as required, however, it should always be performed every 100 engine operating hours. Cleaning is performed with high exhaust temperature up to 600 °C.

When the diesel particle filter cleaning is active, the control lamp 1 lights up.

When the control lamp **2** is lit, stationary diesel particle filter cleaning is required.

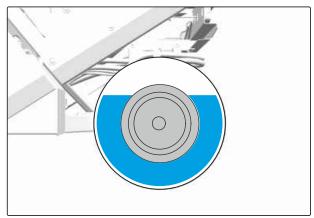
You can find more information on the diesel particle filter cleaning in the section "Using the machine" see page 111.



3.25 Counterweight on machine with cab

CMS-T-00009455-A.1

For the machine with cab, the rear wheels are filled with 21 kg of liquid consisting of water and antifreeze. It ensures reliable driving behaviour despite the additional weight of the cab.



Technical data

4

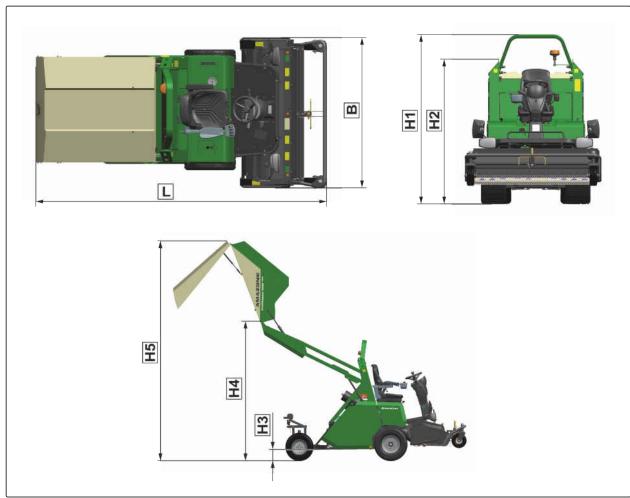
CMS-T-00009306-C.1

4.1 Dimensions

CMS-T-00006632-B.1

4.1.1 Dimensions without cab

CMS-T-00003084-D.1

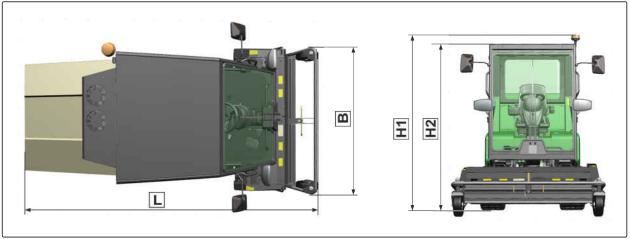


4 | Technical data Permissible trailer load

Designation	Designation	Profihopper 1500
L	Total length	3.42 m
H1	Total height	2.19 m
H2	Height	1.87 m
H3	Ground clearance	135 mm
H4	Height	2.52 m
H5	Height	2.85 m
В	Total width	1.77 m

4.1.2 Dimensions with cab

CMS-T-00006633-B.1



CMS-I-00004718

Designation	Designation	Profihopper 1500
L	Total length	3.42 m
H1	Total height	2.47 m
H2	Height	2.35 m
В	Total width	1.77 m

4.2 Permissible trailer load

CMS-T-00009307-B.1

Designation	Value
Maximum permissible trailer load	500 kg
Maximum drawbar load, trailer hitch	75 kg
Maximum permissible D value	4.2 kN

4.3 Engine

CMS-T-00003090-C 1

Engine type	Yanmar 4TNV 88 diesel engine	
Number of cylinders	4	
Cubic capacity	2,190 cm ³	
Power	34 kW or 45.6 hp	
Cooling	Water-cooled	
Engine oil fill quantity	71	
Engine oil viscosity	SAE 15W-40 API-CJ-4 ACEA E6	

4.4 Speed

CMS-T-00009308-B.1

4.4.1 Forward speed

CMS-T-00003092-C.1

Direction of travel	Forward speed
Forwards	max. 20 km/h
Reverse	max. 8 km/h

4.4.2 Working speed

CMS-T-00009309-B.1

Direction of travel	Working speed
Forwards	max. 11 km/h

4.5 Tank volume

CMS-T-00009310-B.1

4.5.1 Fuel tank

CMS-T-00009311-B.1

Tank volume	55 I
Reserve	When the reserve lamp lights up on the fuel indicator, the remaining working time is 15 minutes.

4.5.2 Hydraulic oil tank

CMS-T-00003096-C.1

Tank volume	23
Oil designation	DIN 51524 HVLP 68

4.6 Grass collector volume

CMS-T-00003106-B.1

1,100 I

4.7 Cutting deck

CMS-T-00003097-C.

4.7.1 Cutting dimensions

CMS-T-00003098-C.1

Cutting height	max. 90 mm
Cutting width	1,500 mm

4.7.2 Cutting tool

CMS-T-00003099-A.1



NOTE

The specifications of the tool quantity refers to 100% equipment with the same cutting tool.

	Flail blade, long H77, standard	Flail blade, short H60	Scarifying blade 2 mm and 3 mm	Combination of flail blades and scarifying blades
Quantity	44 pairs	44 pairs	44 units	44 pairs + 44 units

4.8 Wheels and tyres

CMS-T-00009312-B.1

4.8.1 Tyre dimensions

CMS-T-00009313-B.1

Tyres	Dimensions	
Front tyres	24 x 12.00-12 8PR	
Rear tyres	20 x 10.00-10 6PR	
Cutting deck support wheels	4.10-4 4PR	
Airless cutting deck support wheels	11 x 4.00-5	

4.8.2 Tyre inflation pressure

CMS-T-00003105-B.1

Tyres	Pressure
Front tyres	1.5 bar
Rear tyres	1.5 bar
Cutting deck support wheels	1.5 bar

4.8.3 Wheel bolt tightening torques

CMS-T-00015692-A.1

Wheels	Tightening torque
Front wheels	128 Nm
Rear wheels	80 Nm

4.9 Noise development data

CMS-T-00003101-A.1

The workplace-related emission noise level is 88 dB(A), measured in operating condition at the ear of the tractor driver.

Value of the sound power level, according to Regulation 2000/14/EC: LwA = 105 dB(A)

4.10 Vibration measurement data

CMS-T-00003102-A.1

Designation	Value
Hand vibrations and arm vibrations measured according to DIN EN ISO 12096 and DIN EN ISO	Left: 0.9 m/s ² with an uncertainty figure of K = 0.17
5395-1	Right: 0.85 m/s^2 with an uncertainty figure of K = 0.16
Whole-body vibrations, measured according to DIN EN ISO 12096 and DIN EN ISO 5395-1	0.81 m/s ² with an uncertainty figure of K = 0.16

4.11 Drivable slope inclination

CMS-T-00003103-C.1

Across the slope		
On left in direction of travel	max. 26 %	
On right in direction of travel	max. 26 %	固

4 | Technical data Drivable slope inclination

Up the slope and down the slope			
Up the slope	max. 26 %		
Down the slope	max. 26 %		

Practical routines

5

CMS-T-00009317-D.1

5.1 Opening and closing the doors

CMS-T-00006634-C.1

CMS-T-00006635-C.1

5.1.1 Opening the doors



WARNING

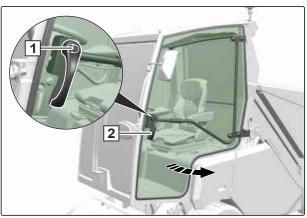
Danger due to open doors while driving

On machines with a cab, open doors can result in accidents and personal injury.

Close and lock the doors before starting off with the machine.

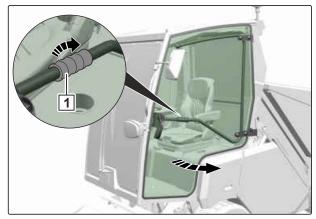
The following steps are the same for both doors.

- 1. *To open the door from the outside:* Press the unlocking button 1.
- 2. Open the door with the handle 2.
- → The door is opened and held in the open position with support from the gas spring.



CMS-I-00004720

- 3. To open the door from the inside:Turn the handle 1 outwards and open the door.
- → The door is opened and held in the open position with support from the gas spring.

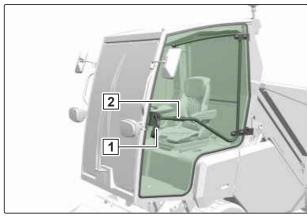


CMS-I-0000472

CMS-T-00006636-B.1

5.1.2 Closing the doors

- To close the door from the outside:
 Press the door on the handle 1 until the door lock engages.
- To close the door from the inside:
 Pull the door by the handle 2 until the door lock engages.



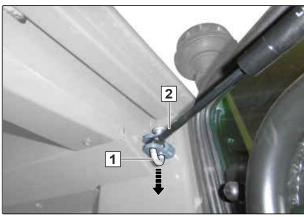
CMS-I-00004721

5.1.3 Opening and closing the doors for maintenance work

CMS-T-00006714-C.1

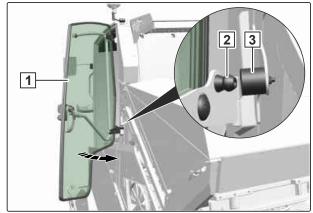
The following steps are the same for both doors.

- 1. Open the door up to the stop of the gas spring.
- 2. Pull down the unlocking mechanism 1.
- 3. Unhook the gas spring 2.



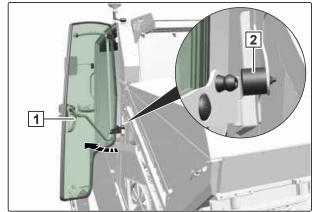
CMS-I-00004747

4. Open the door 1 all the way until the stud 2 is fixed in the stop buffer 3.



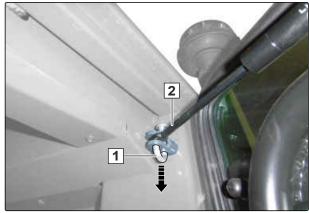
CMS-I-00004719

To close the door:
 Pull the door by the handle 1 out of the stop buffer 2.



CMS-I-00004723

- 6. Pull down the unlocking mechanism 1.
- 7. Hook on the gas spring **2** and secure with the unlocking mechanism.
- 8. Close the door until the door lock engages.



CMS-I-00004747

5.2 Opening and closing the grass collector hood

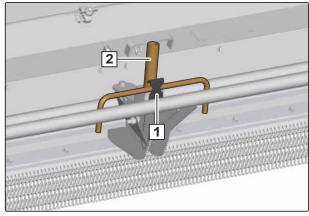
CMS-T-00004125-C.1

5.2.1 Opening the grass collector hood

CMS-T-00004126-C.1

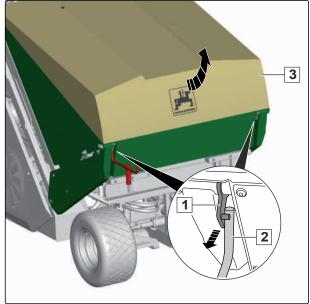
The grass collector hood can be opened manually to empty the grass collector manually when it is overfilled.

- 1. Pull the safety hook 1 to the front.
- 2. Take out the crank 2.



CMS-I-00002314

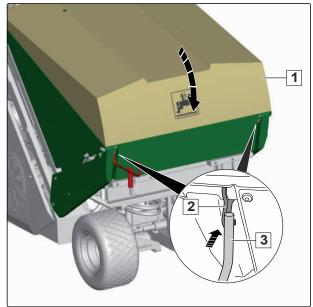
- 3. To unlock the grass collector hood:Pull the hooks 1 on the right and left to the rear with the handle of the crank 2 up to the stop.
- 4. Swivel the grass collector hood 3 upwards using the gas springs.
- → The gas springs hold the hood in the open position.



CMS-I-00003048

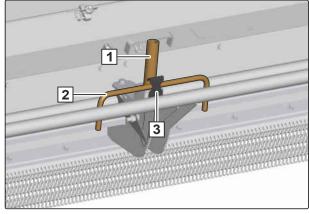
5.2.2 Closing the grass collector hood

- 1. Close the grass collector hood 1 by hand.
- To lock the grass collector hood:
 Press the hooks 2 on the right and left forwards with the handle of the crank 3.
- 3. Check that the hood is properly locked.



CMS-I-00003040

- 4. Push the crank 1 down into the bracket using the handle 2 until the safety clip 3 engages.
- 5. Check that the crank is properly locked.



CMS-I-00002315

5.3 Opening and closing the seat carrier

CMS-T-00002856-D.

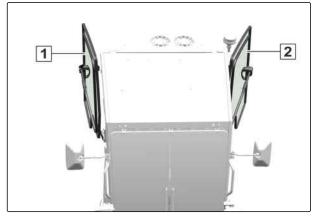
5.3.1 Opening the seat carrier

CMS-T-00002853-D.1

Through the seat carrier, the following components can be accessed:

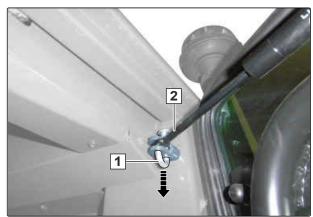
- Vehicle battery
- Diesel fuel pre-filter with water separator
- Cutting deck transmission V-belt
- Maintenance flap for access to the coolant tank
- Threaded cartridge with documents and aids under the seat carrier.
- Wiper water container

- If the machine has a cab:
 Open both doors 1 and 2 up to the maintenance position.
- 2. Perform the following steps in the same way for both doors.



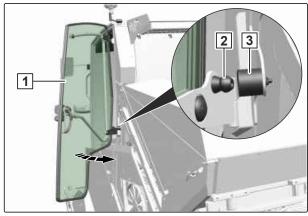
CMS-I-00004725

- 3. Open the door up to the stop of the gas spring.
- 4. Pull down the unlocking mechanism 1.
- 5. Unhook the gas spring **2**.



CMS-I-00004747

6. Open the door 1 all the way until the stud 2 is fixed in the stop buffer 3.



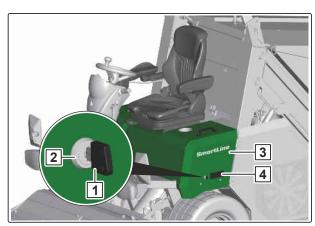
CMS-I-00004719

A

WARNING

Risk of injury due to defective gas springs

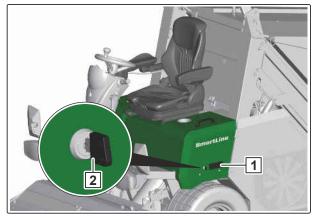
- ► If the seat carrier is open, check the hold of the seat carrier.
- Support the seat carrier only using the gas spring.
- Replace defective gas springs immediately.
- 7. Insert the key 1 in the lock 2.
- 8. To unlock the seat carrier: Turn the key to the left.
- 9. Swivel the seat carrier 3 up using the handle4 with help of the gas spring.
- → The gas spring and the weight of the seat carrier keep the seat carrier in the open position.



CMS-I-00002356

5.3.2 Closing the seat carrier

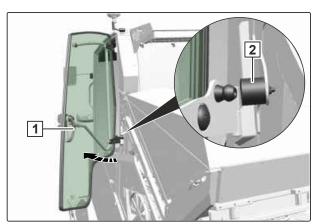
- To close the seat carrier:
 Pull the seat carrier down using the handle 1
 and allow the locking mechanism to engage.
- 2. Pull out the key 2.
- 3. Check that the seat carrier is properly locked.



CMS-I-00002444

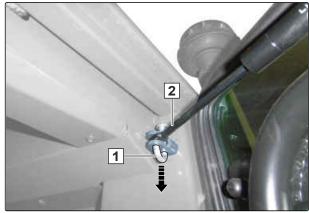
If the machine has a cab, perform the following steps in the same way for both doors.

4. Pull the door by the handle 1 out of the stop buffer 2.



CMS-I-00004723

- 5. Pull down the unlocking mechanism 1.
- 6. Hook on the gas spring **2** and secure with the unlocking mechanism.
- 7. Close the door until the door lock engages.



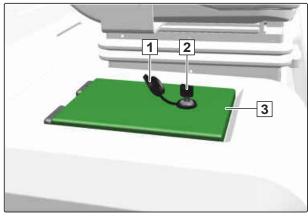
CMS-I-00004747

5.4 Opening and closing the toolbox

CMS-T-00009319-A.1

5.4.1 Opening the toolbox

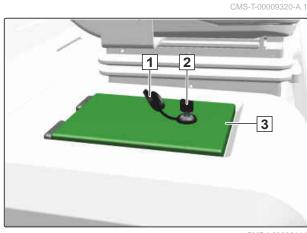
- 1. Open the protective cap 1.
- 2. Using the key **2**, unlock the toolbox **3**.
- 3. Open the toolbox by hand.



CMS-I-00006414

5.4.2 Closing the toolbox

- 1. Close the toolbox 3.
- 2. Lock the toolbox using the key 2.
- 3. Pull out the key.
- 4. Close the protective cap 1.
- 5. Check that the toolbox is properly locked.



CMS-I-00006414

5.5 Opening and closing the engine cover

CMS-T-00002857-E 1

5.5.1 Opening the engine cover

Through the engine cover, the following components can be accessed:

Diesel engine

- Engine oil filling opening
- Hydraulic distributor block
- Alternator
- Diesel particle filter and exhaust gas system



WARNING

Risk of tipping when the grass collector is raised

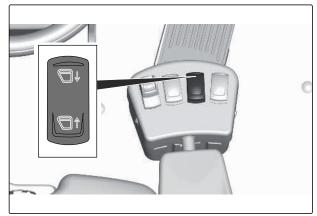
- Only raise the grass collector on stable and level ground.
- Never raise the grass collector on slopes or inclines.



CAUTION

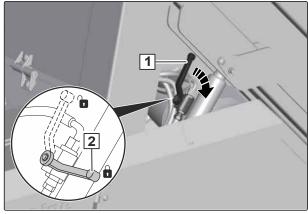
Risk of burn injuries due to hot surfaces on the engine and exhaust system

- When the engine and exhaust system are hot,
 - keep the engine cover closed.
- 1. Bring the machine to a standstill.
- 2. Completely raise the grass collector by pressing the the button.
- → The control lamp lights up.



CMS-I-00002380

- To secure the grass collector against uncontrolled lowering:
 Turn the ball valve 1 on the left and right side to position 2.
- 4. Switch off the engine.
- 5. Apply the parking brake.



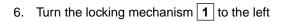
CMS-I-00002350

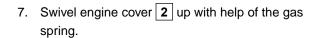


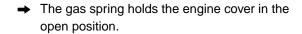
WARNING

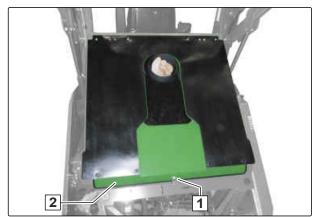
Risk of injury due to defective gas springs

- When the motor cover is open, check the hold of the motor cover.
- Support the motor cover only using the gas spring.
- Replace defective gas springs immediately.









CMS-I-0000235

5.5.2 Closing the engine cover

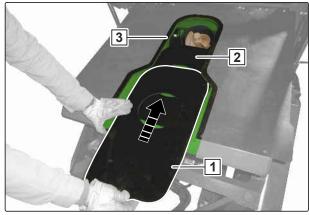


CAUTION

Fire hazard due to grass in the engine compartment

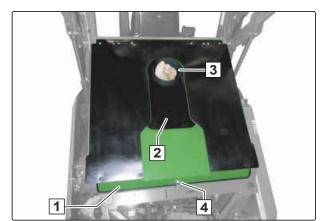
Make sure that the rubber seal with the underlying plastic rubber holder are correctly positioned. CMS-T-00002858-E.1

- When closing the engine cover, make sure that the rubber seal 1 with the underlying plastic rubber holder 2 is correctly positioned in the guide 3 of the engine cover.
- 2. Push the rubber seal with the underlying plastic rubber holder all the way up in the guide.

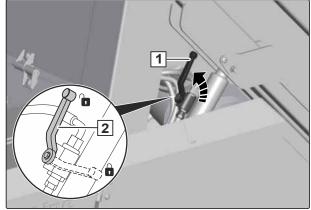


CMS-I-00004451

- 3. Swivel the engine cover 1 completely down. In doing so, guide the rubber seal 2 with the underlying plastic rubber holder over the longitudinal auger 3.
- 4. Turn the locking mechanism 4 to the right.
- → The engine cover is locked.
- 5. Check that the engine cover is securely locked.
- 6. Check that the rubber seal is correctly positioned.
- 7. To release the locking mechanism of the grass collector:Turn the ball valve 1 on the left and right side to position 2.



CMS-I-00004389



CMS-I-00002349

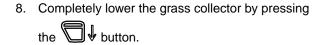


WARNING

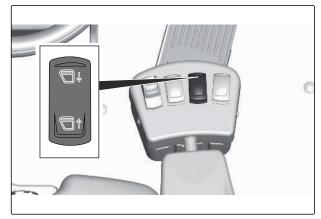
Risk of crushing when lowering the grass collector

Serious injuries or even death are possible.

- Only lower the grass collector when nobody is standing in the danger area.
- While lowering, do not put any limbs in the bracket for the grass collector.







CMS-I-00002379

5.6 Opening and closing the rotor protective cover

CMS-T-00002859-E.1

5.6.1 Opening the rotor protective cover

CMS-T-00002625-E.

Through the rotor protective cover, the following components can be accessed:

- Rotor
- Cutting blades and blade mounts
- Cross auger
- Installation option for mulch flap



WARNING

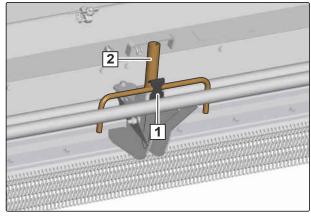
Rotor still running

Risk of drawing in and cutting injuries

 As long as the rotor and cutting tools are moving,

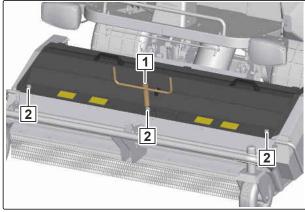
keep the rotor protective cover closed.

- 1. Completely lower the cutting deck.
- 2. Pull the safety hook 1 to the front.
- 3. Take out the crank 2.



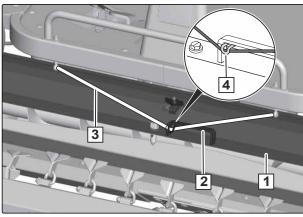
CMS-I-00002314

- 4. Put the crank 1 on the three locking mechanisms 2.
- 5. Turn the crank by 90° to the left.
- → The locking mechanisms are open.



CMS-I-00002353

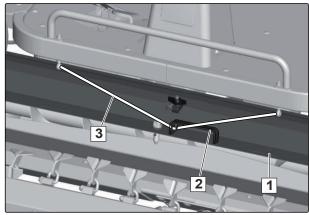
- 6. Open the rotor protective cover 1 using the handle 2.
- CAUTION Risk of crushing due to incorrectly secured rotor protective cover
 - ► If the rope is damaged, replace the rope immediately.
 - Only use the rope to secure the rotor protective cover.
- 7. Hook the rope 3 onto the hook 4.
- → The rotor protective cover is locked when in the open position.



CMS-I-00002352

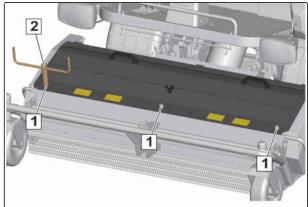
5.6.2 Closing the rotor protective cover

- Hold the rotor protective cover 1 by the handle
 2.
- 2. Unhook the rope 3.
- 3. Close the rotor protective cover.



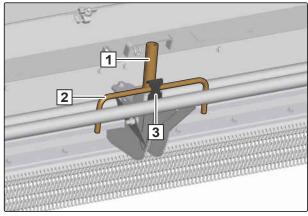
CMS-I-00002354

- 4. Turn the locking mechanisms 1 with the crank2 by 90° to the right.
- → The rotor protective cover is locked.
- 5. Check that the rotor protective cover is properly locked.



CMS-I-0000235

- 6. Push the crank 1 down into the bracket using the handle 2 until the safety clip 3 engages.
- 7. Check that the crank is properly locked.



CMS-I-00002315

5.7 Opening and closing the radiator cover

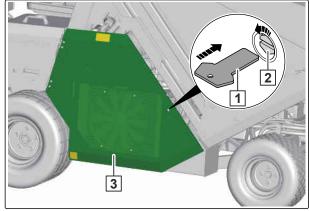
CMS-T-00002861-C

5.7.1 Opening the radiator cover

Through the radiator cover, the following components can be accessed:

CMS-T-00002623-C.

- Engine radiator
- Oil cooler
- Air filter
- Engine oil dipstick
- Hydraulic oil tank
- AMAZONE cooling system fan
- 1. Insert the special key 1 in the lock 2.
- 2. Turn the special key to the left.
- → The radiator cover is unlocked.
- 3. Open the radiator cover 3 by hand with help of the gas spring.
- → The gas spring holds the radiator cover in the open position.



CMS-I-0000234

5.7.2 Closing the radiator cover

CMS-T-00002862-A.1

- 1. Close the radiator cover by hand.
- Press the radiator cover into the locking mechanism.
- → When the locking mechanism engages audibly, the radiator cover is locked.
- 3. Check that the cover is properly locked.

5.8 Opening and closing the electrical system maintenance flap

CMS-T-00009321-C.1

5.8.1 Opening the maintenance hood

CMS-T-00009322-C.

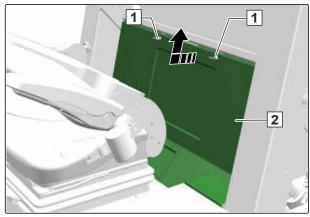
Through the maintenance hood, the following components can be accessed:

- Fuse box and relays
- Job computer
- Diagnosis plug for workshop work
- Engine coolant tank

5 | Practical routines

Opening and closing the electrical system maintenance flap

- If the machine has a cab:
 Open both doors and fasten in an open position, see page 60.
- 2. Fold the backrest of the driver's seat to the front, see page 75.
- 3. Turn the locking mechanism 1 to the left.
- → The locking mechanisms are open and hang loosely in the hole.
- 4. Fold the maintenance hood **2** to the front and lift it upwards and out.

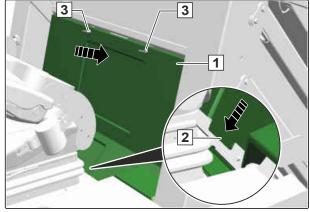


CMS-I-0000641

CMS-T-00009323-B.1

5.8.2 Closing the maintenance hood

- 1. Insert the maintenance hood 1 with the lug 2 behind the frame.
- 2. Fold the maintenance hood to the rear.
- 3. Turn the locking mechanism 3 to the right.
- → The locking mechanisms perceptibly grip into the counter piece.
- 4. Check that the maintenance flap is properly locked and firmly seated.
- 5. Fold the driver's seat backrest into its original position, see page 75.



CMS-I-00006413

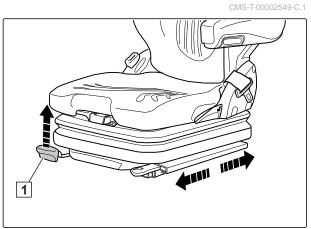
Preparing the implement

6.1 Adjusting the driver's seat

CMS-T-00002551-D.1

6.1.1 Selecting the longitudinal setting

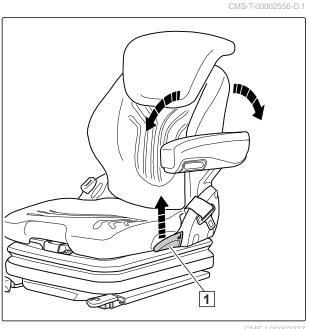
- Pull the lever 1 up and hold it.
- Push the seat into the desired position.
- Let go of the lever.
- → The lever engages perceptibly and audibly. The seat is locked in the set position.
- 4. Check that the seat is firmly locked.



CMS-I-00002335

6.1.2 Adjusting the backrest

- Pull the lever 1 up and hold it.
- Move the backrest to the desired position.
- 3. Let go of the lever.
- → The lever engages perceptibly and audibly. The backrest is locked in the desired position.
- 4. To fold the backrest completely to the front: Fold up the armrests.
- 5. Pull on the lever and hold it.
- 6. Fold the backrest completely to the front.



6.1.3 Setting the driver's weight for the air suspension

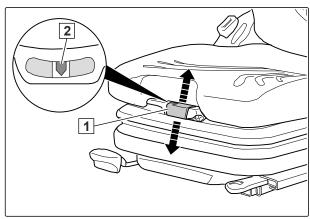
For proper functioning of the air suspension, the weight of the respective driver must be set while the driver's seat is occupied. The weight can be set from 45 kg to 170 kg.

- 1. Sit on the driver's seat.
- 2. To set the driver's weight:
 Pull on the lever 1

or

Push on the lever.

→ When the arrow 2 is positioned within the middle transparent area, the driver's weight is correctly set.



CMS-I-0000233

CMS-T-00002558-D.1

6.1.4 Adjusting the armrests

The slant of the armrests can be adjusted using the hand wheel 1.

To raise the armrest:
Turn the hand wheel outwards

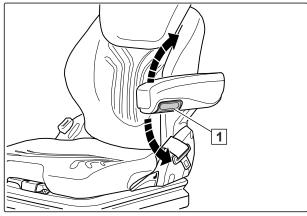
or

To lower the armrest:
Turn the hand wheel inwards.



NOTE

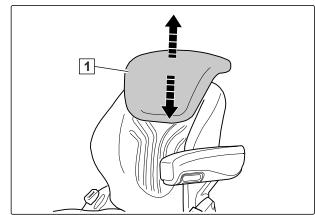
When the armrest is folded down, it stops at the previously set slanted position.



CMS-I-00002332

6.1.5 Adjusting the headrest

- ► To adjust the height of the headrest 1: Pull out or push in the headrest over the perceptible increments.
- To remove the headrest: Pull the headrest out with a jerk beyond the top end stop.



CM2-1-00002334

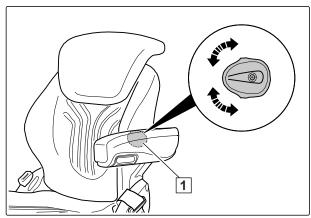
CMS-T-00002560-D.1

6.1.6 Adjusting the lumbar support

- Position 0 = No protrusion
- Position 1 = Maximum protrusion at the top
- Position 2 = Maximum protrusion at the bottom
- ► To adjust the extent of the protrusion in the top area of the backrest cushion:

 Turn the hand wheel 1 up.
- ► To adjust the extent of the protrusion in the bottom area of the backrest cushion:

 Turn the hand wheel down.



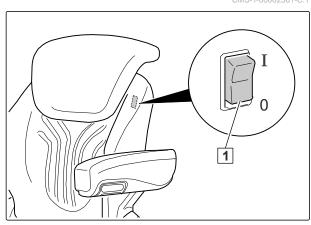
CMS-I-00002336

6.1.7 Seat heater

- Position 0 = Seat heater off
- Position 1 = Seat heater on
- ➤ With the 1 switch, the seat heater can be switched on

or

off.

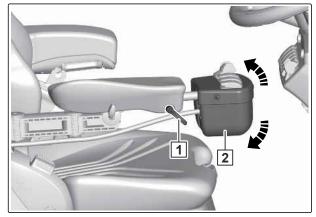


CMS-I-00002338

6.2 Adjusting the armrest with control panel

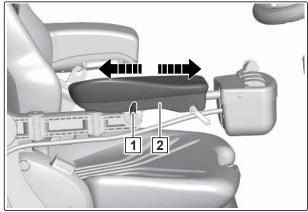
1. Release the lever 1.

- 2. Swivel the control panel **2** to the desired position.
- 3. Tighten the lever.



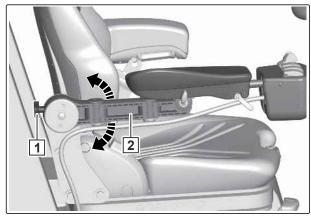
CMS-I-00002330

- 4. Loosen the locking bolt 1
- 5. Push the armrest **2** forward or back.
- 6. Tighten the locking bolt.



CMS-I-00002329

- 7. Loosen the locking bolt 1.
- 8. Adjust the slant of the armrest 2.
- 9. Tighten the locking bolt.



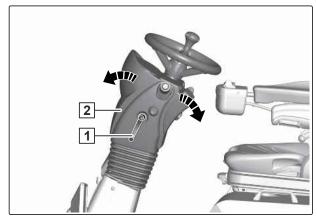
CMS-I-00002331

6.3 Adjusting the steering column

1. Loosen the clamping lever 1.

2. Swivel the steering column **2** in the desired position.

3. Tighten the clamping lever.



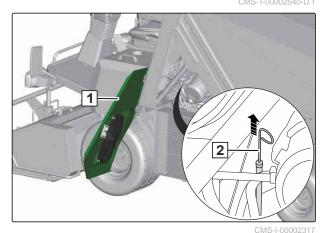
CMS-I-00002325

CMS-T-00002534-B.1

6.4 Checking the oil level

1. Open the radiator cover 1, see page 72.

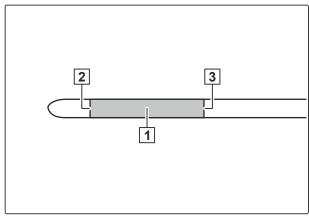
2. Pull out the dipstick 2.



- 5.....
- → The correct engine oil level lies between the minimum 2 and maximum 3 marks.

Read the engine oil level 1.

- 4. If the engine oil level is below the minimum level:Refill the engine oil.
- 5. Close the radiator cover, see page 73.



CMS-I-00002318

6.5 Refilling the engine oil

CMS-T-00002611-C.1

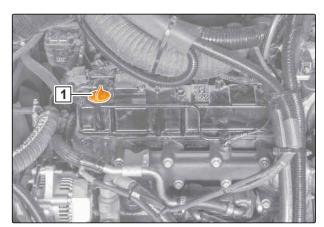
1. Open the engine cover, see page 67.



ENVIRONMENTAL INFORMATION

Danger due to escaping oil

- Collect any escaping oil.
- Dispose of cleaning agents for removing oil in an environmentally friendly manner.
- 2. Open the sealing cap 1.
- 3. Fill up the engine oil.
- 4. Check the engine oil level, see page 79.
- 5. Close the sealing cap.
- 6. Close the engine cover, see page 68.

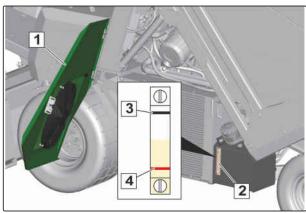


CMS-I-0000241

6.6 Checking the hydraulic oil level

CMS-T-00002542-D.1

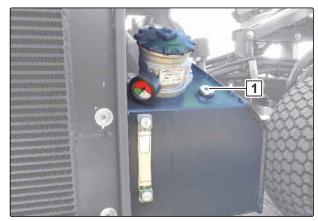
- Completely lower the grass collector, see page 114.
- 2. Raise the cutting deck completely, see page 112.
- 3. Open the radiator cover 1, see page 72.
- Check the hydraulic oil level on the fill level indicator 2 of the oil tank.
- → The hydraulic oil level is optimal when the level reaches the upper mark 3.
- 5. If the hydraulic oil level is at or below the bottom mark 4:Refill the hydraulic oil, see page 81.
- 6. Close the radiator cover, see page 73.



CMS-I-00002327

6.7 Refilling the hydraulic oil

- 1. Open the radiator cover, see page 72.
- 2. Refill the hydraulic oil through the filling screw 1.
- 3. Check the hydraulic oil level, see page 80.
- 4. Close the radiator cover, see page 73.



CMS-I-00002437

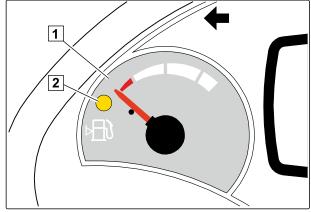
CMS-T-00002543-E.1

6.8 Checking the diesel fuel tank fill level

- 1. Turn the ignition key to position .
- 2. Check the fill level on the fuel indicator 1.
- If the pointer is in the red area or the warning lamp 2 lights up:
 Refill diesel fuel, see page 82.

If the fuel tank has run empty, the fuel system needs to be vented.

- 4. To vent the fuel system:Turn the ignition key to position .
- 5. Run the fuel pump for 2 minutes before starting the engine.



CMS-I-00002267

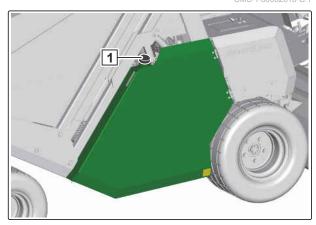
6.9 Refuelling diesel



IMPORTANT

Machine damage due to incorrect or insufficient fuel.

- Only use diesel fuels with a sulphur content ≤ 10 mg/kg, according to the standards DIN 51628 und EN 590.
- Do not use biodiesel or other fuel
- Before the fuel tank is completely empty, refill diesel fuel.



CMS-I-00002328

- 1. Secure the machine.
- 2. Clean the sealing cap 1 and the area around the filler neck.
- 3. Screw the sealing cap open.
- 4. Fill in diesel fuel.
- 5. Screw the sealing cap closed.

6.10 Checking the tyre inflation pressure

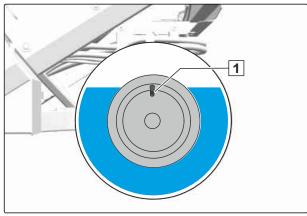
CMS-T-00009479-B.1



NOTE

The required tyre inflation pressures can be found in the Technical Data. Deviating tyre inflation pressures have a negative effect on the driving behaviour.

- With liquid-filled rear wheels, position the wheels such that the valve 1 is at the top at the hight point.
- → This will prevent liquid from escaping when checking the tyre inflation pressure.
- 2. Check the tyre inflation pressure on all 6 tyres.
- 3. Correct the tyre inflation pressure if necessary.



CMS-I-00006455



NOTE

If there is pressure loss on machines with cab, the fill level of the liquid-filled rear wheels can also be checked.

- 4. To check the liquid fill quantity: Unscrew the rear wheel.
- 5. Check the fill quantity by weighing the wheel.

Designation	Weight
Rear wheel without liquid filling	13 kg
Rear wheel with liquid filling	34 kg
Weight of the liquid fill quantity	21 kg

- 6. To correct the liquid fill quantity:

 Position the rear wheel such that the valve is at the highest point.
- 7. Correct the liquid fill quantity with a water air valve. In doing so, observe the operating manual for the utilised water air valve.
- 8. Fill the wheels only with a mixture of water and antifreeze.

6.11 Checking the machine for grass residues

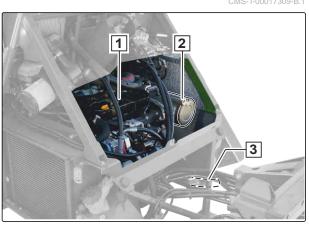
CMS-T-00017309-B.1



WARNING

Brandgefahr durch Grasreste

- ► Entfernen Sie Grasreste im Motorbereich und der Abgasanlage.
- ► Halten Sie die Maschine von leicht entflammbaren Materialien fern.
- Before each use of the machine, check for grass residues in the engine 1, diesel particle filter 2 and the exhaust system 3 areas.
- 2. Completely remove any grass residues with compressed air.



CMS-I-00011723

6.12 Checking the blades and blade mounts

CMS-T-00002680-D 1

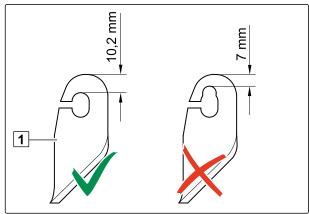


WARNING

Rotor still running

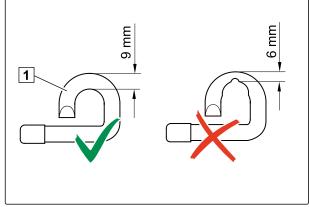
Risk of drawing in and cutting injuries

- As long as the rotor and cutting tools are moving,
 keep the rotor protective cover closed.
- 1. Open the rotor protective cover, see page 70.
- 2. Check the wear on the blades 1.
- If the wear limit of 7 mm is undercut in the mounting area:
 Replace the blade, see page 86.



CMS-I-00002442

- 4. Check the wear on the blade mounts 1.
- 5. If the wear limit of 6 mm is undercut in the mounting area:Replace the blade mount.
- 6. Check the bolted connections on the blade mounts for firm seating.
- 7. Close the rotor protective cover, see page 72.



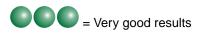
CMS-I-00002443

6.13 Selecting the blades

MS-T-00002950-C.1

Depending on the application area, the rotor must be equipped with the right blades. The following table shows which equipment should be used to achieve very good work results.

Application area	Flail blade, long H77, standard	Scarifying blade 3 mm	Scarifying blade 2 mm	Flail blade, long H77 with scarifying blade	Flail blade, short H60 with scarifying blade
				1	7
Grass court maintenance					
Golf course maintenance	000				
Park maintenance	000				
Public park maintenance	000				
Mowing and collecting under wet conditions	000				
Leaf collection	000			000	000
Scarifying		000			000
Scarifying on golf courses and turf			000		000
Combing out grass, e.g. in addition to the cylinder mower					000
Paddock maintenance				000	
Required number of blades	44 pairs	44 units	44 units	44 pairs + 44 units	44 pairs + 44 units



► Equip the rotor with the blades for the corresponding purpose.

6.14 Changing or replacing the blades

CMS-T-00002537-D 1



WARNING

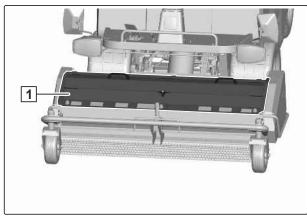
Rotor still running

Risk of drawing in and cutting injuries

As long as the rotor and cutting tools are moving,

keep the rotor protective cover closed.

1. Open the rotor protective cover 1, see page 70.



CMS-I-00002234

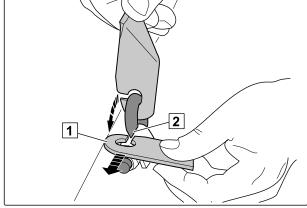


IMPORTANT

Machine damage due to incorrect blade selection or incorrect blade installation

Imbalance on the rotor and machine vibrations

- Select the blades appropriately for the application area.
- Always equip the rotor with the specified number of blades.
- Install the blades in the proper installation position.
- Pay attention to the wear limits.
- Replace worn blades.



CMS-I-00002324

- 2. Swivel the blade 1 towards the pointed area 2 of the mount.
- 3. Turn the blade by 90° and take it out with the open side on the pointed area.

- 4. Push in a different or new blade with the open side on the pointed area and swivel the blade on the mount.
- 5. Close the rotor protective cover, see page 72.

6.15 Installing the mulch flap

CMS-T-00002639-C.1



WARNING

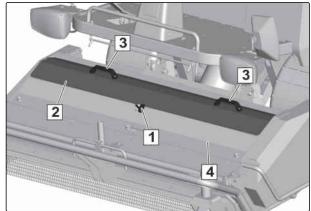
Rotor still running

Risk of drawing in and cutting injuries

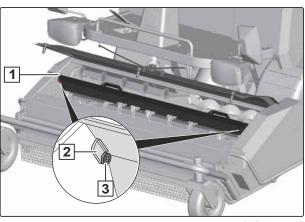
► *As long as the rotor and cutting tools are* moving, keep the rotor protective cover closed.

The machine is equipped with a mulch flap. The mulch flap makes it possible to mow and chop without collecting the mowed material.

- Loosen the locking screw 1.
- Take off the mulch flap 2 by the handles 3.
- 3. Open the rotor protective cover 4, see page 70.



- 4. Insert the mulch flap 1 in the cutting deck.
- 5. Hook the lugs 2 on both sides onto the bolts 3 .
- 6. Swivel the mulch flap to the front until the mulch flap is resting at the rear.
- The mulch flap is installed and prevents transport of mowed material to the auger. The mowed material is chopped and distributed on the ground.
- 7. Close the rotor protective cover, see page 72.



CMS-I-00002377

6.16 Removing the mulch flap

CMS-T-00002868-C.1

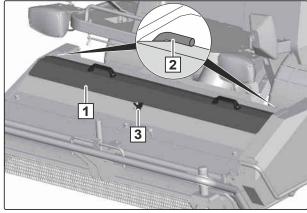


WARNING

Rotor still running

Risk of drawing in and cutting injuries

- As long as the rotor and cutting tools are moving,
 keep the rotor protective cover closed.
- 1. Shutdown the machine.
- 2. Open the rotor protective cover, see page 70.
- 3. Take the mulch flap out of the cutting deck.
- 4. Clean the mulch flap.
- 5. Close the rotor protective cover, see page 72.
- 6. Put the mulch flap 1 on the rotor protective cover.
- → The mulch flap must grip on the left and right under the hooks 2.
- 7. Tighten the locking screw 3.
- → The mulch flap is locked in transport position.
- 8. Check that the mulch flap is securely fastened.

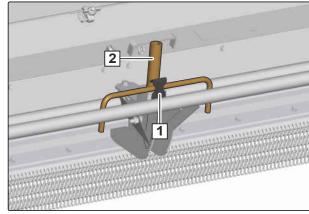


CMS-I-00002378

6.17 Adjusting the cutting height

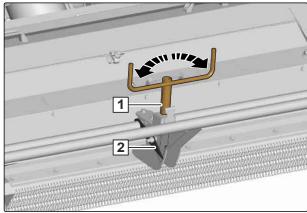
CMS-T-00002538-E.1

- On machines with insect protection, fold the insect protection before adjusting the cutting height, see page 110.
- 2. Pull the locking mechanism 1 on the bracket towards the front.
- 3. Take out the crank 2.



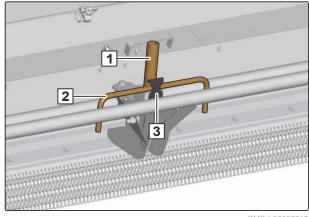
CMS-I-00002314

- 4. Push the crank 1 onto the setting screw.
- 5. To adjust the cutting height:
 Turn the crank to the left or right.
- → The set cutting height is shown on the cutting height indicator 2.



CMS-I-00002316

- 6. Push the crank 1 down into the bracket using the handle 2 until the locking mechanism 3 engages.
- 7. Check that the crank is properly locked.



CMS-I-00002315

6.18 Folding up the roll-over protection

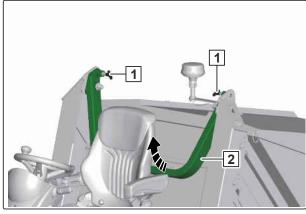
CMS-T-00002547-E 1



CAUTION

Risk of crushing hands when folding the roll-over protection

- When you fold the roll-over protection, do not reach into the rotation area.
- Always hold the roll-over protection firmly at the top.
- Guide the roll-over protection by hand until its end position.
- 1. Fold the backrest of the driver's seat all the way to the front, see page 75.
- 2. Push the driver's seat all the way to the front, see page 75.
- 3. Pull out the locking levers **1**, on the left and right, and turn to the right up to the stop.
- → The locking lever is locked when it is in the open position.
- 4. Fold up the roll-over protection 2.
- 5. Turn the locking lever to the left and allow it to glide into the mount.
- → The roll-over protection is locked.
- 6. Check that the roll-over protection is securely locked.
- 7. Adjust the driver's seat, see page 75.



CMS-I-00002312

6.19 Folding down the roll-over protection

CMS-T-00002546-E.1



WARNING

Risk of crushing when the roll-over protection is always folded down

The driver can be injured or even killed if the machine tips over

- Only fold down the roll-over protection temporarily for obstacles.
- Only fold down the roll-over protection on level ground.
- ► When the safety bar is folded down, take off the seat belt.
- When you have passed an obstacle, fold the roll-over protection back up immediately.
- When the safety bar is folded up, put on the seat belt.



CAUTION

Risk of crushing hands when folding the roll-over protection

- When you fold the roll-over protection, do not reach into the rotation area.
- Always hold the roll-over protection firmly at the top.
- Guide the roll-over protection by hand until its end position.



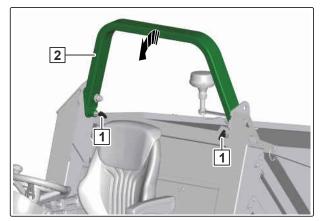
NOTE

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

- 1. Fold the backrest of the driver's seat all the way to the front, see page 75.
- 2. Push the driver's seat all the way to the front, see page 75.

6 | Preparing the implement Coupling the trailer

- 3. Pull out the locking levers 1, on the left and right, and turn to the right up to the stop.
- → The locking lever is locked when it is in the open position.
- 4. Fold down the roll-over protection **2** to the front.
- 5. Turn the locking lever to the left and allow it to glide into the mount.
- → The roll-over protection is locked.
- 6. Check that the roll-over protection is securely locked.
- 7. Adjust the driver's seat, see page 75.

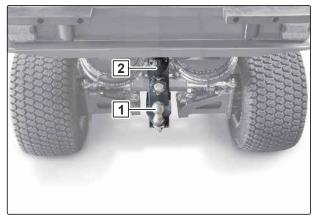


CMS-I-0000231

CMS-T-00002706-C

6.20 Coupling the trailer

- 1. Couple the trailer on the trailer coupling 1.
- 2. Insert the plug for the power supply into the socket 2.



CMS-I-00002390

6.21 Preparing the implement for road travel

CMS-T-00002539-C.

- Check the cleanliness of the lighting and the turn indicators.
- 2. Clean dirty lighting before road travel.
- 3. Check the lighting and turn indicators for proper function.
- 4. Repair defective lighting and turn indicators immediately, see page 150.
- 5. Check the warning beacon for proper function.

- 6. Have a defective warning beacon repaired immediately.
- 7. Completely empty the grass collector, see page 113.
- 8. Remove loose clippings on the cutting deck.
- 9. Fold the insect protection, see page 110.
- 10. Raise the cutting deck completely, see page 112.

Using the machine

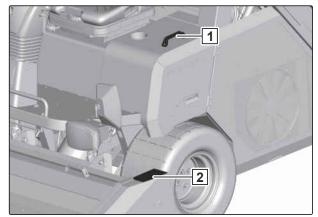
1

CMS-T-00009324-G.1

7.1 Climbing on and off

CMS-T-00002666-C.1

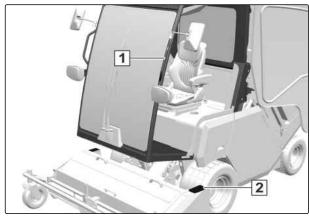
- To climb on and off a machine without a cab:
 Use the handle 1 and the steps 2.
- 2. Always climb up and down facing the machine.



CMS-I-00002386

- 3. To climb on and off a machine with a cab:

 Use the holding point 1 on the cab and the steps 2.
- 4. Always climb up and down facing the machine.



CMS-I-00004715

7.2 Driving the machine

CMS-T-00009325-D 1

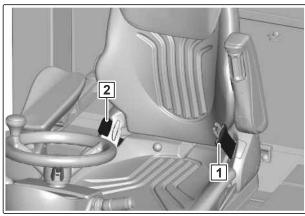
7.2.1 Using the seat belt



WARNING

Improper use of the seat belt

- ► When the roll-over protection is folded up,
 - put on the seat belt.
- If you briefly fold down the roll-over protection, do not put on the seat belt.
- 1. Pull the seat belt by the belt tongue 1 over your hips.
- 2. Press the belt tongue into the belt buckle 2.
- → When the belt tongue engages audibly, the seat belt is locked.
- 3. *To take off the seat belt:* Press the red button on the belt buckle.



CMS-I-0000237

7.2.2 Starting the diesel engine

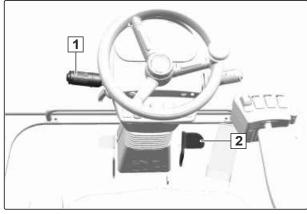


CAUTION

Risk of hearing damage due to high noise levels

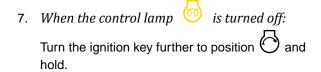
When you are working with the machine, always wear hearing protection.

- 1. Sit on the driver's seat.
- 2. Move the direction of travel selection lever 1 to the neutral position, see page 97.
- 3. Step on the brake pedal 2.

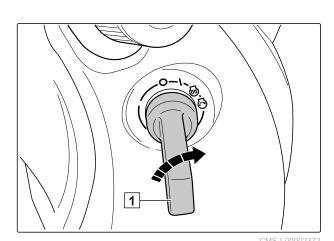


CMS-I-00006410

- 4. Insert the ignition key 1 into the ignition lock.
- 5. Turn the ignition key to position .
- → The steering wheel lock is unlocked.
- 6. Turn the ignition key to position .
- → The ignition is switched on. The diesel engine preheats. When the diesel engine is cold, preheating can take up to 20 seconds.

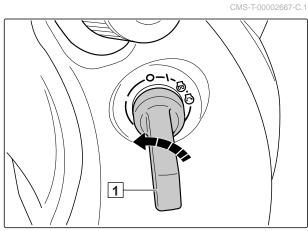


8. As soon as the diesel engine is running: Release the ignition key.



7.2.3 Switching off the diesel engine

- 1. Bring the machine to a standstill.
- 2. Move the direction of travel selection lever to the neutral position, see page 97.
- 3. Apply the parking brake.
- 4. Turn the ignition key 1 to position .



CMS-I-00002385

7.2.4 Selecting the direction of travel

1. Sit on the driver's seat.

2. To drive forwards:

Lift the selection lever 1 and move to position 2

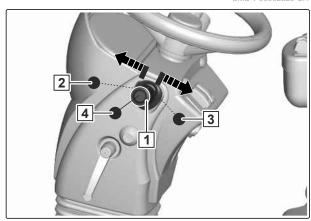
or

To drive in reverse:

Lift the selection lever and move to position 3.

or

Move the selection lever to the neutral position

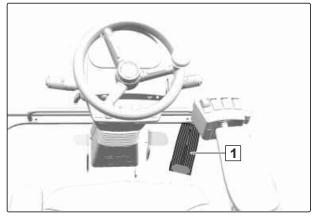


CMS-I-0000237

CMS-T-00009349-B.1

7.2.5 Accelerating

- 1. Select the direction of travel.
- 2. Step on the accelerator pedal 1.



CMS-I-00006408

CMS-T-00009326-A.1

7.2.6 Braking

► Step on the brake pedal 1.

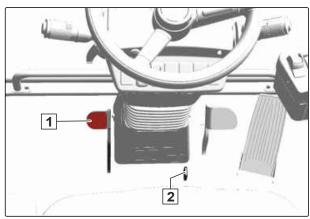


CMS-I-00006406

7.2.7 Applying the parking brake

- 1. Step on the auxiliary brake pedal 1.
- 2. Actuate the locking lever 2.
- 3. Release the auxiliary brake pedal.
- → The parking brake is active and the control lamp

 (P) lights up.



CMS-I-00006407

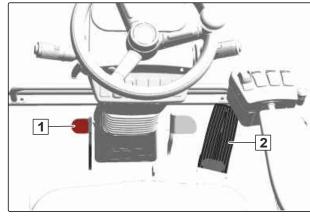
CMS-T-00009329-A.1

CMS-T-00009327-B.1

- 4. *To release the parking brake:* Step on the auxiliary brake pedal.
- → The parking brake is released and the control lamp is turned off. The service brake holds the machine.

7.2.8 Using the hill start assist

- 1. Step on the auxiliary brake pedal 1.
- 2. When pressing on the gas pedal **2**, slowly release the auxiliary brake pedal.
- → This prevents rolling back on hills.



CMS-I-00006405

7.2.9 Using cruise control

CMS-T-00003074-D.1

7.2.9.1 Switching cruise control on

CMS-T-00002630-D.1



NOTE

Cruise control only works when driving forwards.

- 1. Drive at the desired speed.
- 2. Press the operating button 🕜 once.
- → The control lamp lights up. The current driving speed will be maintained and saved.
- 3. To save a new forward speed:Press the operating button for 2 seconds.



CMS-I-00002365

7.2.9.2 Switching cruise control off

- 1. Press the operating button once.
- Cruise control is switched off and the control lamp is turned off. The driving speed is controlled manually with the accelerator pedal again.
- 2. *To call up the previously saved speed:* Switch cruise control back on.

NOTE

Cruise control is automatically switched off under the following conditions:

- The service brake is pressed.
- The accelerator pedal is pressed.
- The direction of travel is changed using the selection lever.
- The cruise control switch is pressed again.
- The cutting deck is blocked.
- The grass collector is not completely lowered.
- If there is a fault or error message.

CMS-I-0000236

7.2.10 Using the warning beacon

- 1. *If the work floodlights are mounted for use:* Reposition them onto the warning beacon.
- The warning beacon is converted in the same way as the work floodlights are mounted, see page 100.

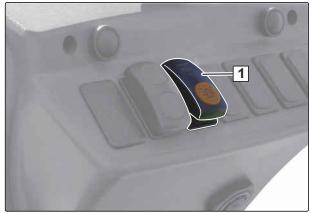
CMS-T-00002635-E

7 | Using the machine Driving the machine

3. Using the operating button 1, the warning beacon can be switched on

or

off.



CMS-I-0000236

CMS-T-00006176-C.1

7.2.11 Using the work floodlights

On machines without a cab, the warning beacon must be repositioned onto the work floodlights to use the work floodlights.



NOTE

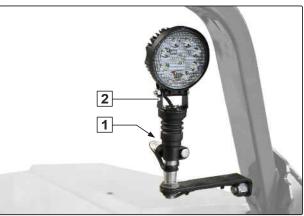
The electrical contact is located in the holder. The connection is established by completely sliding on the work floodlight.

- 1. Release the clamp connection 1.
- 2. Remove the warning beacon 2.



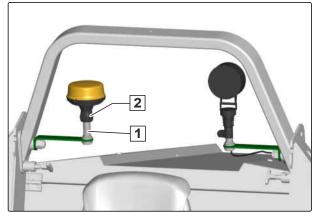
CMS-I-00004392

- 3. Completely slide the work floodlights **2** onto the holder.
- 4. Tighten the wing nut 1.



CMS-I-00004393

- 5. Slide the warning beacon onto the holder **1** for storage.
- 6. Tighten the 2 clamp connection.



CMS-I-00004391

On machines without a cab:
 Switch on the work floodlights with the operating button 1

or

off.

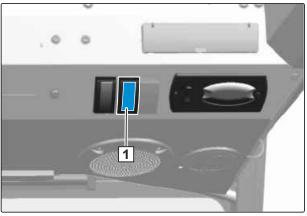


CMS-I-00002366

On machines with a cab:
 Switch on the work floodlights with the operating button 1

or

off.



CMS-I-00009582

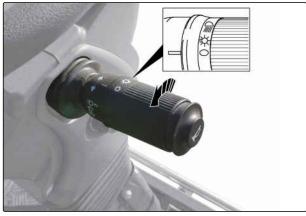
7.2.12 Using the lighting for road travel

► To switch on the dipped headlights:

Turn the rotary switch to position .

► To switch off the lighting for road travel:

Turn the rotary switch to position .

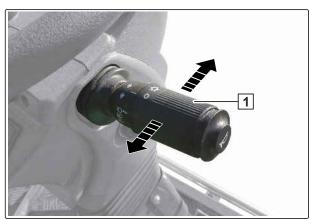


CMS-I-00002362

- ► To switch on the left turn indicator:

 Push the lever 1 to the front.
- → The left driving direction arrow flashes on the dashboard.
- To switch on the right turn indicator:

 Push the lever to the rear.
- → The right driving direction arrow flashes on the dashboard.
- → After turning, the lever is automatically shifted back to the centre position.



CMS-I-00002364

7.2.13 Actuating the horn

- Press the operating button 1.
- → The horn is sounded as long as the button is pressed.





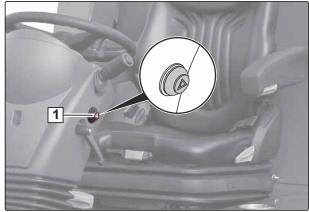
CMS-I-00002363

7.2.14 Using the hazard warning lights

► With the switch 1, the hazard warning lights are switched on

or

off.

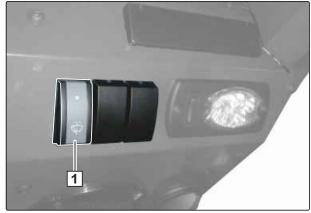


CMS-L-00002265

CMS-T-00006637-C.1

7.2.15 Using the windscreen wipers

- 1. Switch the windscreen wipers on or off using the control button 1.
- 2. *To use the windscreen washer system:* Briefly press the control button.
- → The windscreen wiper wipes with wiper water.



CMS-I-00004728

7.2.16 Using the air conditioning system and heater

CMS-T-00006645-C 1

7.2.16.1 Using the air conditioning system

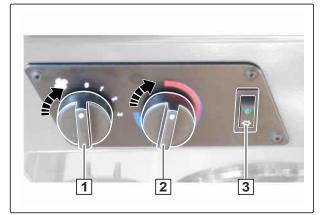
CMS-T-00006638-C.



REQUIREMENTS

- 1. Set the fan switch 1 to level 1, 2 or 3.
- 2. Switch on the air conditioning system with the switch 3.
- → The control lamp on the switch lights up.
- To set the desired temperature:
 Turn the temperature regulator 2 clockwise in the blue area.
- 4. For rapid cooling and dehumidifying the cab after a longer period of standstill and at high outside temperatures:

 Set the fan switch to level 3 at first.



CMS-I-00004727



NOTE

When lifting and emptying the grass collector, the fan is automatically switched off. This prevents clogging of the fresh air filter with grass or leaves. The fan automatically starts again when the grass collector is completely lowered.

CMS-T-00006646-C.1

7.2.16.2 Using the heater



REQUIREMENTS

- 1. Set the fan switch 1 to level 1, 2 or 3.
- 2. Switch off the air conditioning system with the switch 3.
- → The control lamp on the switch goes out.
- 3. To set the desired temperature:

 Turn the temperature regulator 2 counterclockwise in the red area.



NOTE

When lifting and emptying the grass collector, the fan is automatically switched off. This prevents clogging of the fresh air filter with grass or leaves. The fan automatically starts again when the grass collector is completely lowered.



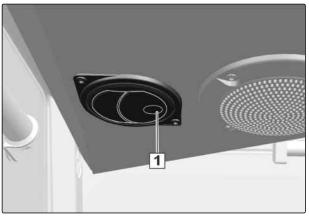
CMS-I-00004730

CMS-T-00006647-B.1

7.2.16.3 Adjusting the air nozzles

- 1. *To open the air nozzles:* Press on the recess 1.
- 2. To adjust the direction of the air outlet:

 Turn the air nozzles on the open grills in the desired direction.
- 3. *To close the air nozzles:* Press the grill closed.



CMS-I-00004733

7.2.17 Using the cab lighting

► Switch the cab lighting on or off using the control button 1.

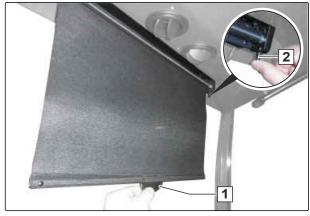


CMS-I-00004726

CMS-T-00006744-B.1

7.2.18 Using the sun protection blind

- 1. Pull out the sun protection blind by the tab 1 up to the desired position.
- 2. *To retract the sun protection blind:* Press the **2** button.



CMS-I-00004748

CMS-T-00015353-A.1

7.2.19 Using the camera system

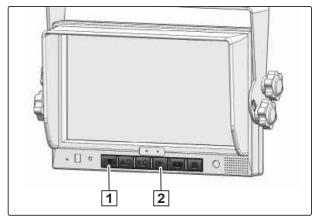


WARNING

Risk of accident due to restricted field of vision of the camera system

- Before manoeuvring, ensure that there are no persons or objects in the driving area by taking a direct look.
- Also use the exterior mirror for the largest possible coverage of the field of vision.

- To use the certified camera system:
 Switch on the screen with the "POWER" 1
 button.
- → The image from the camera will be shown on the screen.
- 2. To select a camera:
 Press the "CH+" 2 button.
- → Via the display mode, it is possible to display one camera or both cameras.
- 3. *To switch off the camera system:*Switch off the screen with the "POWER" button.
- 4. For other settings, observe the operating manual for the camera system.



CMS-I-00009566

7.3 Using the implement

CMS-T-00003075-G.1

CMS-T-00002637-E.1

7.3.1 Starting mowing



DANGER

Turning rotor and ejected objects

- Lower the cutting deck completely before switching on the cutting deck.
- Only switch on the cutting deck when all of the protective covers are closed and securely locked.



REQUIREMENTS

- The grass collector is closed and completely lowered
- 1. To lower the cutting deck:

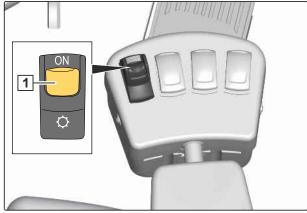
Press the **button**.

→ The cutting deck is in float position and adapts to uneven terrain.



CMS-I-0000238

- 2. Start the engine.
- 3. Lower the cutting deck.
- 4. Switch on the cutting deck with the operating button 1.
- → To activate the cutting deck coupling, the engine speed is reduced. When the cutting deck coupling is activated, the engine speed is increased again.



CMS-I-00002384



IMPORTANT

Damage to the conveyor system

- ► Do not overfill the grass collector.
- Pay attention to the acoustic fill level indicator.
- 5. When the acoustic fill level indicator **1** sounds: Empty the grass collector.



CMS-I-00002296

7.3.2 Activating Eco mode while mowing

CMS-T-00010465-B.1

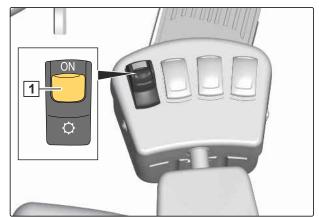
To reduce the noise level and fuel consumption, the cutting deck can be used in Eco mode. The rotor speed is reduced in Eco mode.

Due to the reduce air flow, Eco mode is suitable for collecting leaves or for light mowing work when perfect cutting quality is not required.



REQUIREMENTS

- Start mowing, see page 107.
- 1. To activate Eco mode with the cutting deck switched on:
 - Press the operating button 1 for 3 seconds.
- → After releasing the operating button, the rotor speed will be reduced. The control lamp starts flashing.
- → Eco mode remains active when the cutting deck is restarted until the engine is switched off.
- 2. *To deactivate Eco mode:* Switch off the engine.



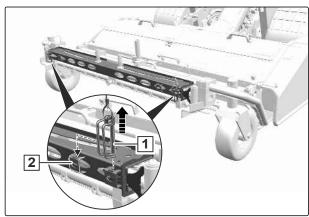
CMS-I-00002384

7.3.3 Using the insect protection when mowing

CMS-T-00017229-A

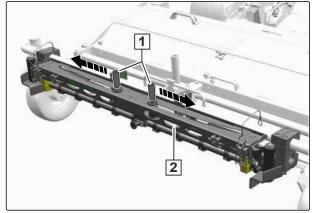
7.3.3.1 Unfolding and adjusting the insect protection

- 1. Pull out the linch pins 1 on the left and right.
- 2. Insert the linch pins into parking position **2** on the left and right.



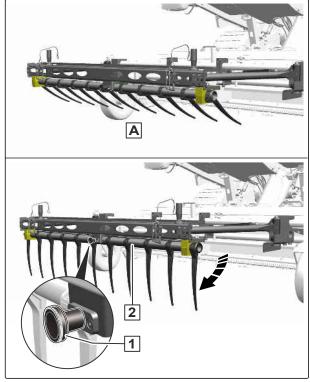
CMS-I-00011597

- 3. Push the handles 1 all the way out.
- → The insect protection (2) is unfolded.



CMS-I-00011593

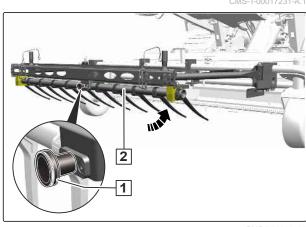
- 4. Set the insect protection to the correct grass height.
- To mow tall grass:
 Leave the tine tube in the swivelled-up position
- 6. *To mow short and medium-length grass:*Pull out and hold the locking mechanism 1.
- 7. Swivel the tine tube 2 down.
- 8. Release the locking mechanism.
- 9. Check that it is properly locked.



CMS-I-00011595

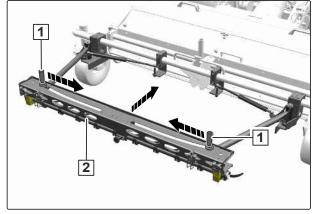
7.3.3.2 Folding the insect protection

- 1. Pull out and hold the locking mechanism 1.
- 2. Swivel the tine tube 2 up.
- 3. Release the locking mechanism.
- 4. Check that it is properly locked.



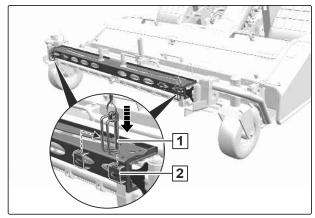
CMS-I-00011596

Pull the handles 1 all the way to the middle and simultaneously press the insect protection
 towards the rear.



CMS-I-00011594

6. Insert and secure the linch pins 1 in the locking position 2 on the left and right.



CMS-I-00011598

7.3.4 Handling the automatic diesel particle filter cleaning

The diesel particle filter cleaning is performed automatically as required, however, it should always be performed every 100 engine operating hours. Cleaning is performed with high exhaust temperature up to 600 °C. When the cleaning procedure is active, the control lamp 1 lights up.



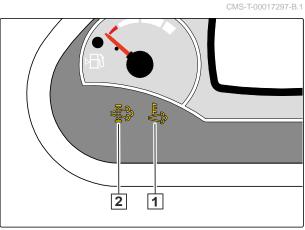
NOTE

If the cleaning procedure is aborted by switching off the machine, the cleaning procedure will be started again after a while during operation.

If the cleaning procedure is aborted again, the diesel particle filter becomes increasingly soiled

and the control lamp [2] lights up. In this case, stationary cleaning of the diesel particle filter must be performed, see page 146.

Under normal operating conditions of the machine, stationary cleaning of the diesel particle filter is not required.



CMS-I-00011599

- If the cleaning process starts during operation:
 Keep the machine away from highly flammable materials.
- 2. Continue working as usual during the active cleaning process.
- → The cleaning procedure is finished after 15 to 20 minutes and the control lamp is turned off.

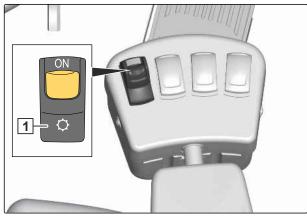
7.3.5 Stopping mowing



IMPORTANT

Risk of damage to the rotor

- When the cutting deck is lowered and switched off, do not move the machine.
- 1. Switch off the cutting deck with the operating button 1.



CMS-I-00002449

CMS-T-00002668-C.1

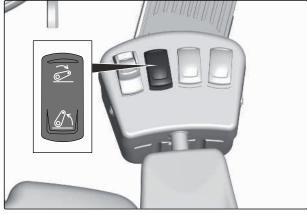


DANGER

Rotor still running and ejected objects

- Only raise the cutting deck when the rotor is standing still.
- 2. To raise the cutting deck:

 Press the button.



CMS-I-00002383

CMS-T-00003738-D.1

7.3.6 Starting and stopping mulching



REQUIREMENTS

- Ø A mulch flap is installed, see page 87.
- Mulching is started, see page 107

or

and stopped, see page 112 just like mowing.

7.3.7 Starting and stopping scarifying

CMS-T-00002677-D



REQUIREMENTS



IMPORTANT

Machine damage due to large amount of soil

- When scarifying, only fill the grass collector halfway when there is a large amount of soil.
- Observe the maximum permissible total weight according to the technical data.
- ► Scarifying is started, see page 107

or

and stopped, see page 112 just like mowing.

7.4 Emptying the grass collector

CMS-T-00003076-E.1

7.4.1 Emptying the grass collector close to the ground

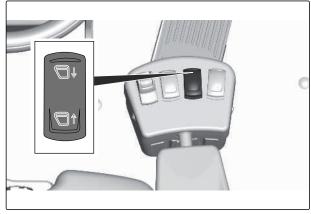




REQUIREMENTS

On machines with weatherproof tarpaulin:

- The weatherproof tarpaulin is opened or removed.
- 1. Lower the grass collector by pressing the button.
- → The control lamp lights up until the grass collector is completely lowered.



CMS-I-00002379

7 | Using the machine Emptying the grass collector

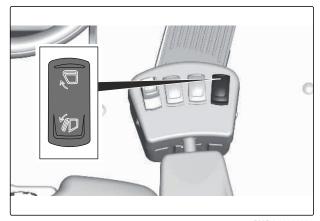
- 2. Drive the machine in reverse towards the unloading point.
- 3. To tip the grass collector:

Press the D button.

- The grass collector is opened.
- → The control lamp lights up as long as the grass collector is tipped and open.
- 4. Completely empty the grass collector.
- 5. To close the grass collector:

Press the button.





CMS-I-00002381

7.4.2 High tip emptying the grass collector



WARNING

Risk of tipping when the grass collector is raised

- Only raise the grass collector on stable and level ground.
- Never raise the grass collector on slopes or inclines.

CMS-T-00002642-D.1



REQUIREMENTS

On machines with weatherproof tarpaulin:

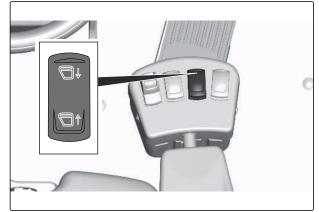
- The weatherproof tarpaulin is opened or removed.
- 1. Drive the machine in reverse up to 1 m before the unloading point.



NOTE

The maximum height for high tip emptying is 2.50 m.

- 2. Raise the grass collector by pressing the button.
- → The control lamp lights up.



CMS-I-0000238

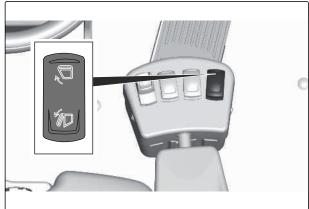
3. To tip the grass collector:

Press the D button.

- → The grass collector is opened.
- → The control lamp lights up as long as the grass collector is tipped and open.
- 4. Completely empty the grass collector.
- 5. To close the grass collector:

Press the button.

→ The control lamp lights up as long as the grass collector is tipped and open.

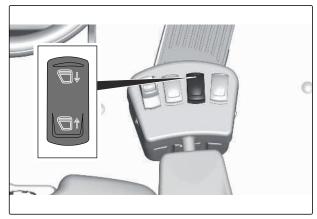


CMS-I-00002381

7 | Using the machine Setting the Info display

6. Lower the grass collector by pressing the





CMS-I-00002379

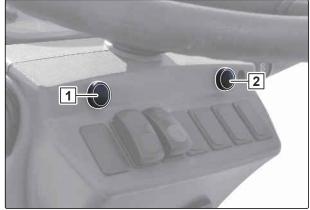
7.5 Setting the Info display

CMS-T-00003077-F 1

CMS-T-00002686-D.1

7.5.1 Setting the language

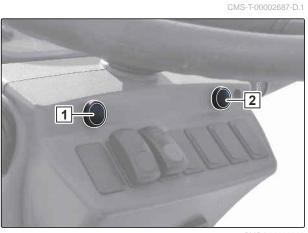
- 1. Sit on the driver's seat.
- 2. Press and hold the operating buttons 1 and 2.
- 3. Turn the ignition key to position .
- → The language selection appears.
- 4. Set the language using the 1 button.
- 5. Turn the ignition key back to position
- → The next time the machine is started, the display will be in the selected language.



CMS-I-00002392

7.5.2 Setting the clock

- 1. Sit on the driver's seat.
- 2. Turn the ignition key to position .
- 3. Press and hold the operating buttons **1** and **2** for 3 seconds.



CMS-I-00002392

- 4. Set the time with the operating buttons.
- Turn the ignition key back to position (
- The next time the machine is started, the set time will be displayed.

7.5.3 Toggling between normal mode and job mode

CMS-T-00002681-D.1

1. Turn the ignition key to the position

or

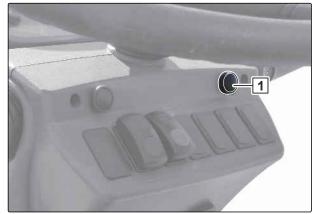
Start the engine.

2. Press the operating button 1 to toggle.



NOTE

When the machine is started again, normal mode will be displayed.



CMS-I-00002394

7.5.4 Resetting the job mode counter

- 1. Sit on the driver's seat.
- Turn the ignition key to position .
- Press the operating button 1 for 10 seconds.
- 4. Turn the ignition key back to position \bigcirc .





7.5.5 Resetting the maintenance interval



NOTE

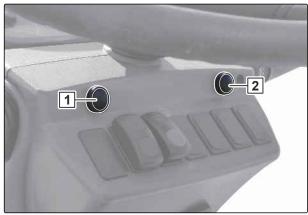
The maintenance interval may only be reset by a specialist workshop after maintenance has been performed.

CMS-T-00002757-E.1



REQUIREMENTS

- The grass collector is slightly raised, the control lamp lights up.
- 1. Turn the ignition key to position $\overline{\mathbb{O}}$.
- 2. Press the operating buttons **1** and **2** simultaneously 5 times for 1 second.
- 3. Lower the grass collector, see page 113.
- 4. Turn the ignition key back to position \bigcirc .



CMS-I-00002392

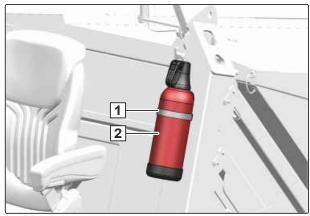
7.6 Using the fire extinguisher

CMS-T-00014781-B.1



REQUIREMENTS

- Familiarise yourself with use of the fire extinguisher.
- Release the fastening strap 1.
- 2. Take the fire extinguisher 2 out of the holder.
- Make the fire extinguisher ready for use according to the instructions on the fire extinguisher.
- 4. Put out the seat of the fire.
- When a fire extinguisher has been used, have it promptly refilled and made functional again by expert personnel.



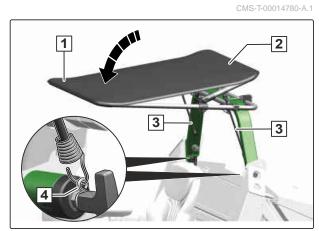
CMS-I-00009565

7.7 Using the weatherproof tarpaulin

CMS-T-00014818-B.1

7.7.1 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**.

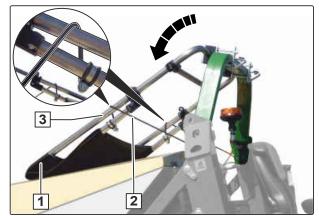


CMS-I-00009571

CMS-T-00014819-A.1

7.7.2 Folding back the weatherproof tarpaulin

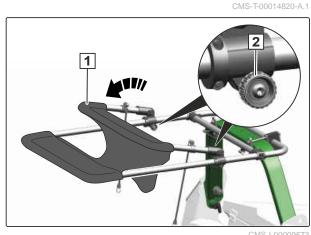
- 1. Unhook both tensioning ropes from the eyes.
- 2. Fold back the weatherproof tarpaulin 1 until it is resting on the grass collector.
- 3. Guide both tensioning ropes 2 outwards over the frame 3.
- 4. Hook both tensioning ropes on the eyes.
- → The weatherproof tarpaulin is fastened on the grass collector.



CMS-I-00009572

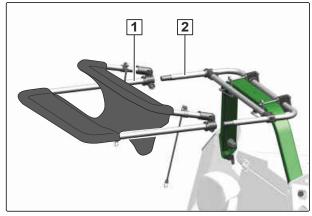
7.7.3 Removing the weatherproof tarpaulin

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



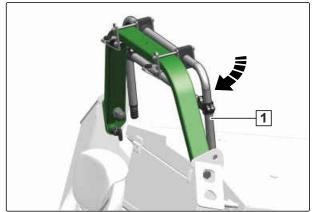
CMS-I-00009573

- 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.



CMS-I-00009574

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

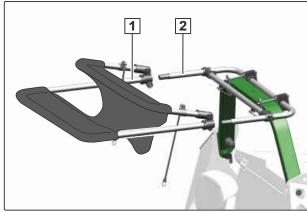


CMS-I-00009575

7.7.4 Putting on the weatherproof tarpaulin

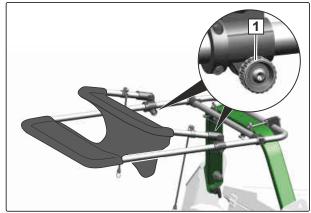
- 1. Fold the rear frame **2** to the front up to the stop.
- 2. Slide the front frame 1 with the weatherproof tarpaulin onto the the rear frame.





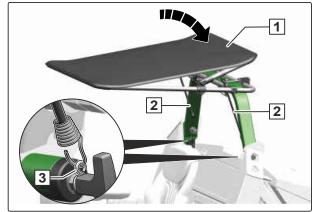
CMS-I-00009574

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



CMS-I-00009577

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



CMS-I-00009578

Parking the machine

CMS-T-00002695-D.1

8.1 Parking the implement after operation

CMS-T-00003942-B.1

- 1. Completely empty the grass collector and lower it completely, see page 113.
- 2. Completely lower the cutting deck.
- 3. To lower the cutting deck:

Press the button.

4. Clean the machine, see page 155.

8.2

Preparing the machine for longer periods of standstill or overwintering

CMS-T-00002811-C.1

- 1. Completely empty the grass collector.
- 2. Clean the machine.
- 3. Grease all lubrication points.
- 4. Empty the fuel tank.
- 5. Disconnect and remove the battery.
- 6. Store the battery in a dry and frost-free place.
- 7. Check the condition of the drive belts.
- 8. If necessary, have the drive belts replaced by a qualified specialist workshop.
- 9. Make sure that there is enough antifreeze in the engine cooling system.

- 10. Fill the wiper water container with wiper fluid with anti-freeze.
- 11. Store the machine in a dry place.

Repairing the machine

9

CMS-T-00009333-H.

CMS-T-00002758-D.1

9.1 Lifting the implement

Lifting points on the machine are indicated with stickers.



IMPORTANT

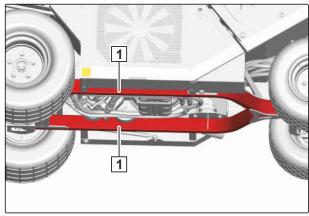
Mchine damage due to incorrect positioning the jack or lifting equipment

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



CMS-I-00002252

- Position the jack or lifting equipment in the marked areas on the frame 1.
- 2. Slowly lift the implement.



CMS-I-00002410

9.2 Maintaining the machine

CMS-T-00009334-G.1

9.2.1 Maintenance schedule

[
After initial operation		Γ
Checking the wheel bolt tightening torques	see page 130	
Checking the hydraulic hoses	see page 131	
As required		
Refilling liquid for the windscreen washer system	see page 142	
all 8 Operating hours / Daily		
Checking the engine coolant fill level	see page 126	
Cleaning the radiator	see page 127	
Checking the water separator	see page 127	
Every 10 operating hours / As required		
Cleaning the fresh air filter in the cab	see page 128	
Clean the cab circulation filter	see page 129	
From 50 anaroting house / Weekly		
Every 50 operating hours / Weekly	400	
Cleaning the diesel pre-filter water separator	see page 130	
Checking the wheel bolt tightening torques	see page 130	
Checking the hydraulic hoses	see page 131	
Checking the drive belt	see page 131	
Cleaning the air filter	see page 134	
Every 250 operating hours / Every 12 months		
Changing the engine oil and oil filter	see page 135	WORKSHOP WORK
Every 500 operating hours / Every 12 months		
Changing the air filter	see page 136	
Checking the battery	see page 137	
Replacing the drive belt	see page 138	WORKSHOP WORK
Changing the hydraulic oil and filter	see page 140	
Changing the water separator filter insert	see page 141	WORKSHOP WORK
Changing the fuel filter	see page 141	WORKSHOP WORK
Changing the engine coolant	see page 142	WORKSHOP WORK
		

Every 500 operating hours / Every 12 months		
Cleaning the diesel tank	see page 142	WORKSHOP WORK
Checking the windscreen wiper blade	see page 143	
Checking the air conditioning system	see page 143	WORKSHOP WORK

9.2.2 Checking the engine coolant fill level

CMS-T-00009335-B.1



INTERVAL

 all 8 Operating hours or Daily



WARNING

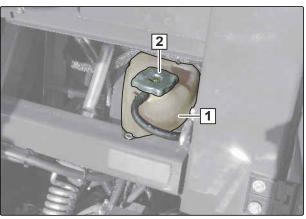
Risk of scalding due to hot coolant spraying out

Face and hands can be injured.

- ► Before you check the engine coolant fill level, allow the engine to cool down.
- Wear suitable protective clothing, such as protective gloves and protective goggles.
- 1. Open the maintenance hood, see page 73.
- 2. Check the fill level of the engine coolant in the coolant tank 1.
- → The correct fill level lies between the minimum and maximum marks on the coolant tank.
- 3. If necessary, refill engine coolant through the filling opening **2**.

Permitted coolants	SAE J814C, J1941, J1034, J2036

4. Close the maintenance hood, see page 74.



CMS-I-0000241

9.2.3 Cleaning the radiator

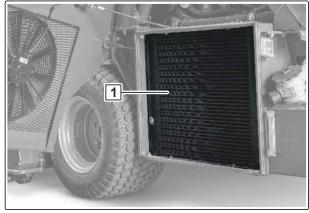
CMS-T-00002749-E.1



INTERVAL

 all 8 Operating hours or
 Daily

- 1. Open the radiator cover, see page 72.
- 2. Blow out the radiator fins 1 with compressed air.
- 3. Close the radiator cover, see page 73.



CMS-I-00002436

9.2.4 Checking the water separator

CMS-T-00002751-E.1



INTERVAL

 all 8 Operating hours or
 Daily

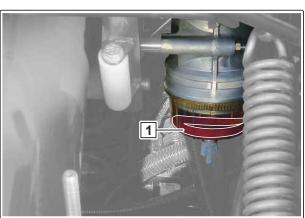
- 1. Open the seat carrier, see page 63.
- 2. Check the position of the red ring 1 in the sight glass.



NOTE

If the red ring is on the floor of the sight glass, there is no water in the fuel. The red ring rises the more water is contained in the fuel.

- 3. *If the water content in the fuel is too high:* Clean the water separator, see page 130.
- 4. Close the seat carrier, see page 65.



CMS-I-00002435

9.2.5 Cleaning the fresh air filter in the cab

CMS-T-00006652-B.1

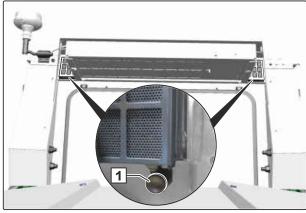


INTERVAL

Every 10 operating hours

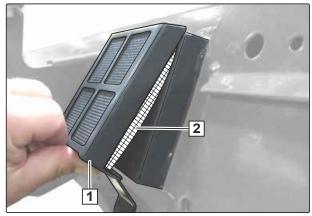
As required

1. Unscrew the bolt 1.

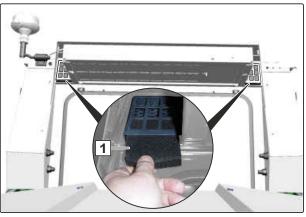


CMS-I-00007118

- 2. Fold the filter plate 1 open from the bottom.
- 3. Remove the filter plate downwards.
- 4. Take out the filter foam 2.
- 5. Clean the filter foam with compressed air.
- 6. Replace damaged filter foam.
- 7. Clean the filter plate with compressed air.
- 8. Pull the filter foam 1 out of the grating.
- 9. Clean the filter foam with compressed air.
- 10. Replace damaged filter foam.
- 11. Slide the filter foam into the grating.

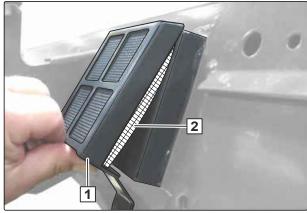


CMS-I-00007117



CMS-I-00004737

- 12. Insert the filter foam 2 into the filter plate 1.
- 13. Put on the filter plate from below and slide it up.
- 14. Press the filter plate towards the cab.
- 15. Screw on the filter plate with the bolt.



CMS-I-00007117

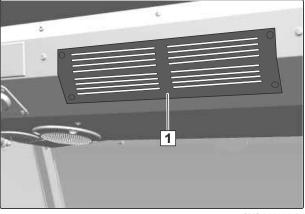
CMS-T-00006653-A.1

9.2.6 Clean the cab circulation filter



INTERVAL

- Every 10 operating hours As required
- Check the circulation filter 1 for soiling.
- 2. Clean or blow off the circulation filter with compressed air.



9.2.7 Cleaning the diesel pre-filter water separator

CMS-T-00002846-F

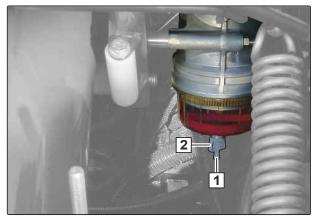


INTERVAL

 Every 50 operating hours or

Weekly

- 1. Observe the operating manual for the YANMAR engine.
- 2. Open the seat carrier, see page 63.
- 3. Slide a hose onto the hose nipple 1.
- 4. Route the other end of the hose to a suitable collection bucket.
- 5. Open the drain plug 2.
- 6. *If pure diesel fuel escapes:* Close the drain plug.
- 7. Take off the hose.
- 8. Dispose of the collected liquid in an environmentally friendly manner.
- 9. Close the seat carrier, see page 65.



CMS-I-0000243

9.2.8 Checking the wheel bolt tightening torques

CMS-T-00002752-C.1



INTERVAL

- After initial operation
- Every 50 operating hours

Weekly

Check the wheel bolt tightening torques according to the technical data, see page 57.

9.2.9 Checking the hydraulic hoses

CMS-T-00002750-C 1



INTERVAL

- After initial operation
- Every 50 operating hours or

Weekly



NOTE

The hydraulic hoses can be reached through the following access points:

- Engine cover
- Seat carrier
- Under the raised grass collector
- 1. Check the hydraulic hoses for damage such as chafing point, cuts, tears and deformation.
- 2. Check the hydraulic hoses for leaks.
- 3. Check the date of manufacture 1.



NOTE

Hydraulic hoses may not be older than 6 years.

4. Retighten loose bolted connections.



WORKSHOP WORK

5. Replace damaged or aged hydraulic hoses.

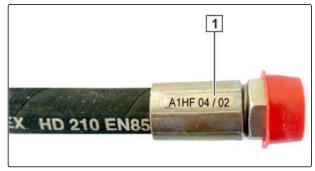
9.2.10 Checking the drive belt



INTERVAL

 Every 50 operating hours or Weekly

The following values are used to check the belt tension on the respective drive belt.



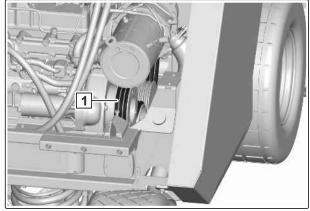
CMS-I-0000053

CMS-T-00002745-E.1

9 | Repairing the machine Maintaining the machine

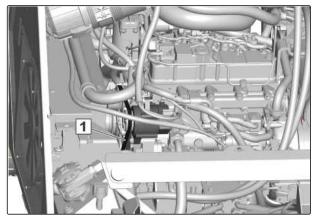
Drive belt	Belt tension upon initial installation	Belt tension after running in
Main drive belt	380 N - 430 N	330 N - 380 N
Fan drive belt	380 N - 430 N	330 N - 380 N
Cutting deck drive belts	1140 N - 1290 N	990 N - 1140 N
Rotor and cross auger drive belt	250 N - 300 N	200 N - 250 N
Longitudinal auger drive belt	250 N - 300 N	200 N - 250 N

- 1. Open the engine cover, see page 67.
- 2. Check the belt tension on all 3 main drive belts 1.
- 3. Check all three main drive belts for damage and wear.



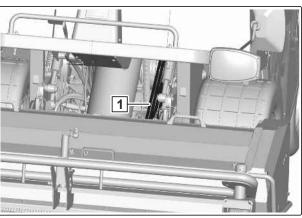
CMS-I-00002433

- 4. Check the belt tension on the fan drive belt 1.
- 5. Check the fan drive belt for damage and wear.
- 6. Close the engine cover, see page 68.



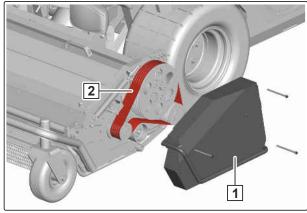
CMS-I-00002737

- 7. Open the seat carrier, see page 63.
- 8. Check the belt tension on the cutting deck drive belts 1.
- 9. Check the cutting deck drive belt for damage and wear.
- 10. Close the seat carrier, see page 65.



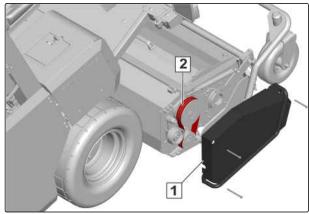
CMS-I-00002432

- 11. Remove the protective cover 1.
- 12. Check the belt tension on all 5 rotor drive belts 2.
- 13. Check all 5 rotor drive belts for damage and wear.
- 14. Put on the protective cover.



CMS-I-00002431

- 15. Remove the protective cover 1.
- 16. Check the belt tension on all 5 longitudinal auger drive belts 2.
- 17. Check all 5 longitudinal auger drive belts for damage and wear.
- 18. Put on the protective cover.



CMS-I-00002738

WORKSHOP WORK

- 19. Readjust the belt tension.
- 20. Replace damaged and worn drive belts.

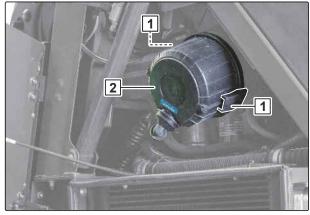
9.2.11 Cleaning the air filter

CMS-T-00002845-D 1



INTERVAL

- Every 50 operating hours or Weekly
- 1. Open the radiator cover, see page 72.
- 2. Open the locking mechanisms 1.
- 3. Remove the air filter lid **2**.



CMS-I-00002412

- 4. Carefully blow out the air filter **1** with compressed air.
- 5. Put on the air filter lid.
- 6. Lock the air filter lid.
- 7. Close the radiator cover, see page 73.



CMS-I-00002413

9.2.12 Changing the engine oil and oil filter

CMS-T-00015358-C 1



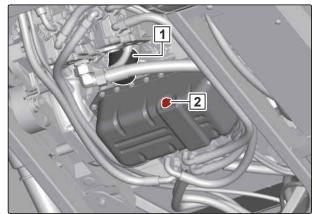
WORKSHOP WORK

 Every 250 operating hours or
 Every 12 months



WORKSHOP WORK

- 1. Observe the operating manual for the YANMAR engine.
- 2. Always replace the oil filter 1 when changing the oil.
- Drain the engine oil through the drain screw
 into a suitable collection bucket.
- 4. Dispose of the engine oil in an environmentally friendly manner.
- 5. Screw on the drain screw with a new gasket.



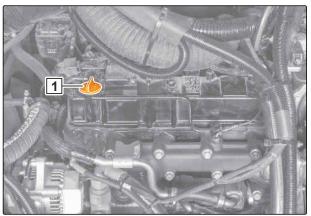
CMS-I-0000241



WORKSHOP WORK

6. Fill fresh engine oil through the filling opening 1.

Engine oil fill quantity	Permitted engine oil
7	15W40 API-CJ-4 ACEA E6



CMS-I-00002414

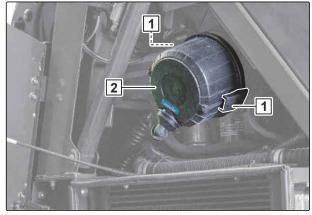
9.2.13 Changing the air filter

CMS-T-00002849-D



INTERVAL

- Every 500 operating hours or
 Every 12 months
- Lvery 12 months
- 1. Open the radiator cover, see page 72.
- Open the locking mechanisms 1.
- 3. Remove the air filter lid 2.



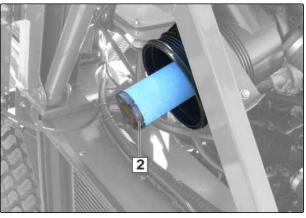
CMS-I-00002412

4. Take out the air filter 1.



CMS-I-00002413

- 5. Take out the air filter 2 underneath.
- 6. Replace both air filters.
- 7. Put on the air filter lid and lock it.
- 8. Close the radiator cover, see page 73.



CMS-I-00002917

9.2.14 Checking the battery

CMS-T-00002744-D.1

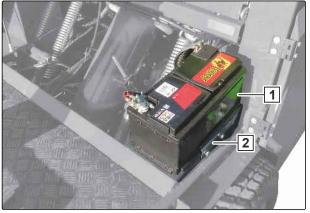


INTERVAL

 Every 500 operating hours or
 Every 12 months

- 1. Open the seat carrier, see page 63.
- 2. Check the voltage of the battery **1** at rest.

Voltage	Battery status
12.65 V - 12.8 V	The battery is fully charged.
12.6 V - 12.4 V	The battery is half charged.
< 12 V	The battery is discharged.



CMS-I-00002419

3. Depending on the battery voltage, the battery must be charged

or

replaced.

- 4. *To take out the battery:* Remove the bracket **2**.
- 5. When the new battery is installed: Reinstall the bracket **2**.
- 6. Close the seat carrier, see page 65.

9.2.15 Replacing the drive belt

CMS-T-00015357-A.1



WORKSHOP WORK

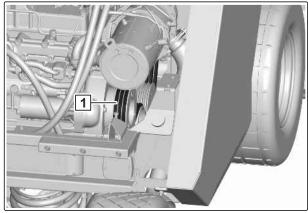
 Every 500 operating hours or

Every 12 months



WORKSHOP WORK

1. Replace all 3 main drive belts 1.

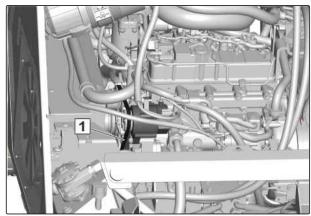


CMS-I-00002433



WORKSHOP WORK

2. Replace the fan drive belt 1.

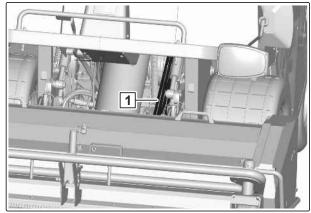


CMS-I-00002737



WORKSHOP WORK

3. Replace the cutting deck drive belts 1.

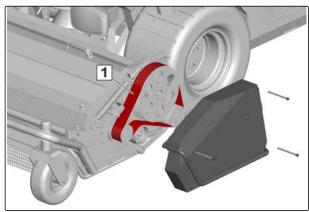


CMS-I-00002432



WORKSHOP WORK

4. Replace all 5 drive belts 1.

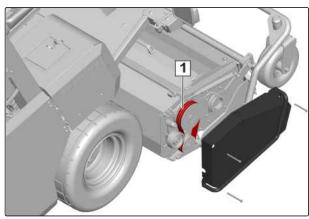


CMS-I-00002919



WORKSHOP WORK

5. Replace all 5 drive belts 1.



CMS-I-00002918

9.2.16 Changing the hydraulic oil and filter

CMS-T-00002748-D.1

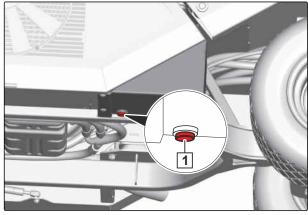


INTERVAL

 Every 500 operating hours or

Every 12 months

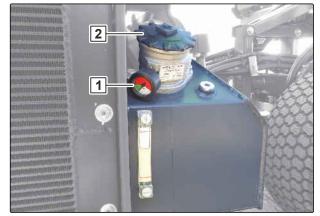
- Drain the hydraulic oil through the drain screw
 1.
- Collect the hydraulic oil in a suitable collection bucket and dispose of in an environmentally friendly manner.
- 3. Tighten the drain screw with a new gasket.



CMS-I-00002416

The contamination indicator 1 shows the degree of contamination of the hydraulic oil filter.

- 4. Open the radiator cover, see page 72.
- 5. Unscrew the lid 2.
- 6. Remove the filter insert.
- 7. Put in a new filter insert.
- 8. Screw on the lid.



CMS-I-00002418

9. Fill fresh hydraulic oil through the filling screw 1.

Hydraulic oil fill quantity	Hydraulic oil type
23 litres	DIN 51524 HVLP 68

- 10. Close the radiator cover, see page 73.
- 11. After restarting the machine, check the hydraulic oil level again.



CMS-I-00002437

9.2.17 Changing the water separator filter insert

CMS-T-00015359-B.1



WORKSHOP WORK

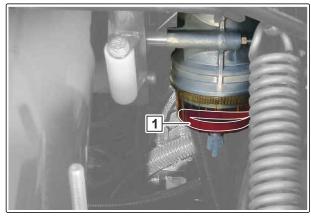
 Every 500 operating hours or

Every 12 months



WORKSHOP WORK

Change the filter insert in the water separator
 1, refer to the operating manual for the YANMAR engine.



CMS-I-00002435

CMS-T-00015360-B.1

9.2.18 Changing the fuel filter



 Every 500 operating hours or

Every 12 months



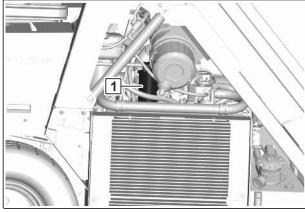
WORKSHOP WORK

1. Change the fuel filter 1, refer to the operating manual for the YANMAR engine.

After working on the fuel system, the fuel system must be vented.

To vent the fuel system:
 Turn the ignition key to position .

3. Run the fuel pump for 2 minutes before starting the engine.



CMS-I-00002429

9.2.19 Changing the engine coolant

CMS-T-00015361-B.1



WORKSHOP WORK

Every 500 operating hours

or

Every 12 months



WORKSHOP WORK

Change the engine coolant, refer to the operating manual for the YANMAR engine.

9.2.20 Cleaning the diesel tank

CMS-T-00015364-B.1



WORKSHOP WORK

 Every 500 operating hours or

Every 12 months



WORKSHOP WORK

- 1. Clean the diesel tank.
- 2. Dispose of collected fuel in an environmentally friendly manner.

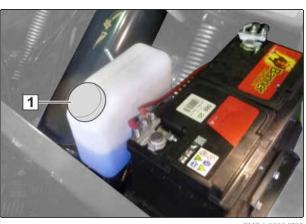
9.2.21 Refilling liquid for the windscreen washer system

CMS-T-00006649-B.1



INTERVAL

- As required
- 1. Open the seat carrier, see page 63.
- 2. Unscrew the lid 1.
- 3. Fill the hopper with a mixture of water and wiper fluid.
- 4. Screw on the lid.
- 5. Check the windscreen washer system for proper function.
- 6. Close the seat carrier, see page 65.



CMS-I-0000473

9.2.22 Checking the windscreen wiper blade

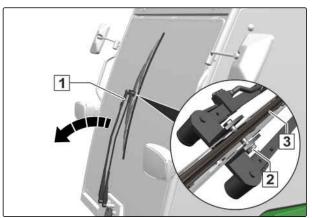
CMS-T-00006650-B.1



INTERVAL

 Every 500 operating hours or
 Every 12 months

- 1. Check the wiper blade for wear and damage.
- 2. Replace damaged and worn wiper blades immediately.
- 3. If the wiper blade needs to be replaced:
 Fold the windscreen wiper arm 1 all the way to the front.
- 4. Unscrew the bolt 2.
- 5. Replace the wiper blade 3 and screw in the bolt.
- 6. Carefully fold the windscreen wiper arm back onto the windscreen.



CMS-I-00004736

CMS-T-00015365-A.1

9.2.23 Checking the air conditioning system



WORKSHOP WORK

Every 12 months



WORKSHOP WORK

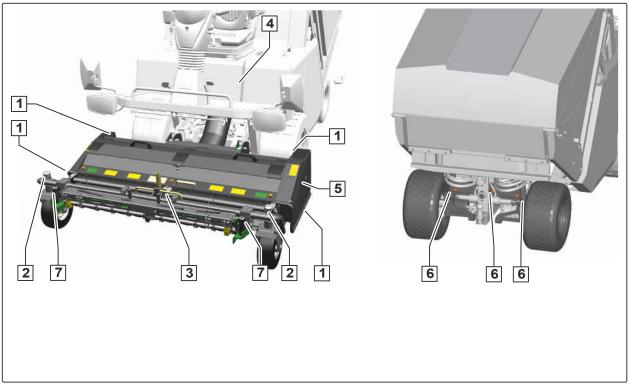
- 1. Check the hose lines for damage.
- 2. Perform a leak test on the coolant circuit.
- 3. Perform a functional check on the air conditioning system.

9.3 Lubricating the machine

CMS-T-00002734-B.1

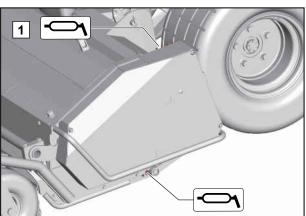
9.3.1 Overview of lubrication points

CMS-T-00002735-B.1



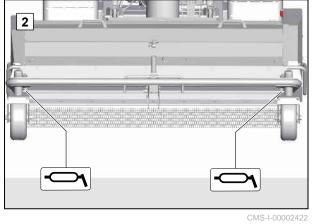
CMS-I-00002426

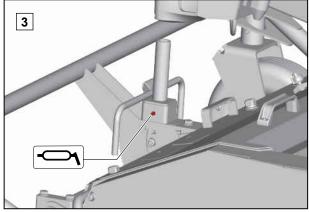
Every 10 operating hours / Daily



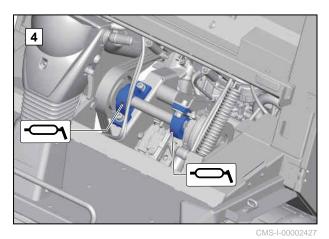
CMS-I-00002424

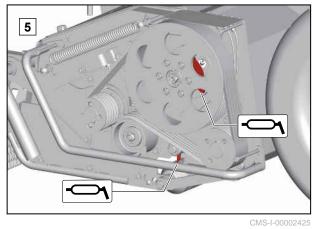
Every 50 operating hours / Weekly

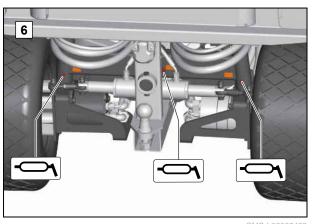


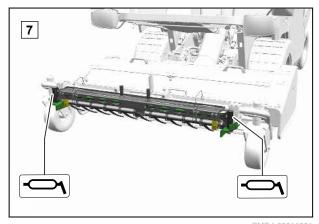


2422 CMS-I-00002421









9.4 Eliminating faults

CMS-T-00009530-D.1

Error code	Errors	Cause	Solution
	Defective lighting for road travel	Lamp or lighting supply line is damaged.	► see page 150
	Defective fuse	Failure of an electric function on the machine.	► see page 150
	Main fuse for the cab is defective	Failure of all electric functions in the cab.	► see page 151
	Defective fuse in the cab	Failure of an electric function in the cab.	► see page 152
	Fault warning lamp is lit	There is a fault on the machine	► see page 153
	Warning lamp for engine fault is lit	Fault on the diesel engine	Stop working with the machine immediately.
			Have engine faults repaired by a qualified specialist workshop.
	The diesel particle filter cleaning required control lamp	Strongly soiled diesel particle filter	Stop working with the machine.
	is lit		► Have stationary cleaning of the diesel particle filter performed by a specialist workshop for YANMAR engines. Refer to the website of the engine manufacturer: www.yanmar.com
1, 7	Warning lamp for battery voltage is lit	Battery voltage is too low.	Check the voltage of the battery according to the Maintenance section.
			► Replace defective battery.
2, 8	Warning lamp for battery overvoltage is lit	Battery voltage is too high.	Check the voltage of the battery according to the Maintenance section.
			Check the alternator and charge controller.
CAN DM1	Engine fault error message appears	There is a fault on the diesel engine	Stop working with the machine immediately.
			Have engine faults repaired by a qualified specialist workshop.

Error code	Errors	Cause	Solution
101, 102, 131, 132, 161, 162, 191, 192, 341, 371, 401	Right pump control error appears	Fault in the electronics	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
103, 104, 133, 134, 163, 164, 193, 194	Left pump control error appears	Fault in the electronics	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
4233, 4234	Rotor switch error appears	Fault on the rotor switch	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
4235, 4236	Cruise control switch error appears	Fault on the cruise control switch	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
6001, 6052, 6061, 6062, 6066, 6667	CAN communication error appears	Fault with the communication of the CAN components	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
3, 4, 5, 6	ECU power supply error appears	Fault with the ECU power supply	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
10, 11, 12, 13, 14	5 V deviation on the ECU appears	Fault with the ECU power supply	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 40, 42, 50	ECU internal error appears	Fault on the ECU	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
4062	Pedal sensor error appears	Fault on the pedal sensor	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.

9 | Repairing the machine Eliminating faults

Error code	Errors	Cause	Solution
4201	Direction of travel selection lever error appears	Fault on the selector lever for the direction of travel	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
4213	Hydraulic oil temperature error message appears	Hydraulic oil temperature is too high	 Stop working with the machine immediately. Clean the radiator. Allow the machine to cool down. If the error message appears again, have the fault repaired by a qualified specialist workshop.
4216	Seat switch error appears	Fault on the seat switch	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
4265	Steering angle sensor error appears	Fault on the steering angle sensor	 Stop working with the machine immediately. Have the fault eliminated by a qualified specialist workshop.
5016	Accelerator pedal position error appears	The accelerator pedal was actuated when starting the engine and did not return to the neutral position, or grass residues prevent it from returning to the neutral position. There might be a malfunction on the accelerator pedal.	 Do not actuate the accelerator pedal when starting the engine. Check the accelerator pedal for grass residues. Remove grass residues and check that the accelerator pedal is returned. Have the fault eliminated by a qualified specialist workshop.
6251	Warning lamp for hydraulic oil level is lit	The hydraulic oil level is too low	 Stop working with the machine immediately. Check the hydraulic oil level. refill the hydraulic oil.
8008	Engine overheating error message appears	Engine temperature is too high	Stop working with the machine immediately.Clean the radiator.

Error code	Errors	Cause	Solution	
			>	Check the engine coolant fill level.
			>	If the engine coolant fill level is too low, top up the engine coolant.
			•	If the engine coolant fill level drops again, have the engine cooling system checked by a qualified specialist workshop.
8009	Engine oil pressure error message appears	The engine oil pressure is too high or too low	>	Stop working with the machine immediately.
			>	Have the fault eliminated by a qualified specialist workshop.
8506	Blockage on the cutting deck, warning lamp is lit.	A foreign object or clippings are blocking the cross auger	>	see page 153
		A foreign object or clippings are blocking the feed auger	•	see page 154
		Foreign object is blocking the rotor	•	Open the rotor protective cover, see page 70.
			•	Remove foreign objects.
			•	Close the rotor protective cover, see page 72.

Defective lighting for road travel

0

NOTE

Only the lamps for the front headlights can be replaced. All other lights are equipped with LED lamps.

Position number	Designation	Lamp
1	Turn signal	PY21W 12V
2	Parking light	W5W 12V
3	Dipped headlights	H4 60/55W 12V



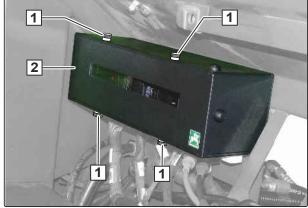
CMS-I-0000240

- 1. Replace the lamp.
- 2. Check the lighting supply line.
- 3. Replace defective lighting supply lines.

Defective fuse

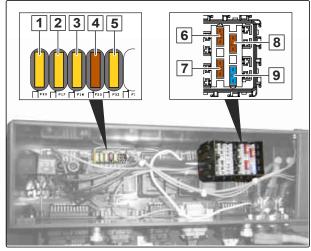
CMS-T-00009531-B.1

- 1. Open the maintenance hood, see page 73.
- 2. Unscrew the bolts 1.
- 3. Push off the cover **2** towards the right.



CMS-I-00002395

Position	Fuse	Use	Rated current
1	F33	EGR valve	20 A
2	F17	Machine control unit	20 A
3	F18	Machine control unit	20 A
4	F23	Ignition	7.5 A
5	F32	Engine control unit	20 A
6	F20	UT coupling	7.5 A
7	F14	Warning beacon	7.5 A
8	F24	ACS coupling	7.5 A
9	F22	Seat	15 A



CMS-I-0000655

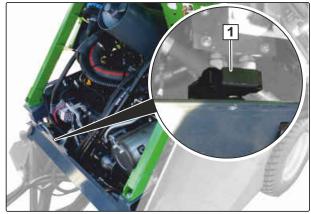
- 4. Replace defective fuses.
- 5. Push the cover onto the fuse box.
- 6. Screw on the screws at the bottom.
- 7. Close the maintenance hood, see page 74.

Defective main fuse for the cab

CMS-T-00010466-A.1

1. Open the engine cover, see page 67.

Position	Use	Rated current
1	Main fuse for the cab	30 A Maxi fuse



CMS-I-00007120

- 2. Open the fuse holder.
- 3. Replace defective fuses.

9 | Repairing the machine Eliminating faults

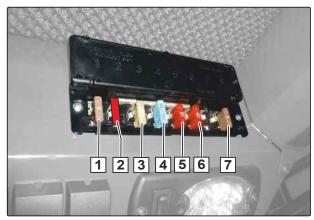
- 4. Close the fuse holder.
- 5. Close the engine cover, see page 68.

Defective fuse in the cab

CMS-T-00006654-B.1

1. Fold open the cover.

Position	Fuse	Use	Rated current
1	F1	Interior lighting and radio (terminal 30)	5 A
2	F2	Front work floodlights	10 A
3	F3	Axial fan of the air conditionin g system	25 A
4	F4	Fan	15 A
5	F5	Windscreen wipers and washing system	10 A
6	F6	Air conditioner compressor and radio (terminal 15)	10 A
7	F8	Control of the air conditionin g system and heater	5 A



CMS-I-00004739

- 2. Replace defective fuses.
- 3. Close the cover on the fuse box.

Fault warning lamp

CMS-T-00003728-B.1

The fault warning lamp lights up in conjunction with another warning lamp or error message.

- 1. Secure the machine.
- 2. Identify the fault according to the other warning lamp

or

Identify the fault according to the error message.

3. Eliminate the fault

or

Have the fault eliminated by a qualified specialist workshop.

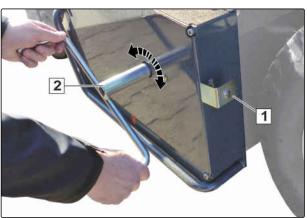
8506

Cutting deck blocked warning lamp

CMS-T-00003070-D.1

A foreign object or clippings are blocking the cross auger

- 1. Open the rotor protective cover, see page 70.
- 2. Unlock the locking mechanism 1 with the special key.
- 3. Pull out the cover sheet.
- → The side opening for the crank is open.
- 4. Take the crank **2** out of the bracket on the cutting deck.
- 5. Push the crank through the opening on the shaft of the cross auger.
- 6. *To remove foreign objects or blockages,* turn the crank.
- 7. Remove foreign objects.



CMS-I-00002387

9 | Repairing the machine **Eliminating faults**

- 8. Close the rotor protective cover.
- 9. Insert the crank in the bracket on the cutting deck.

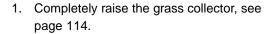
A foreign object or clippings are blocking the feed auger

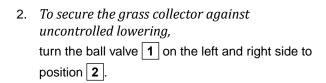


WARNING

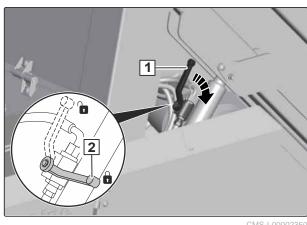
Risk of tipping when the grass collector is raised

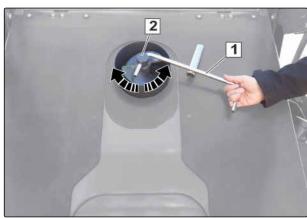
- Only raise the grass collector on stable and level ground.
- Never raise the grass collector on slopes or inclines.



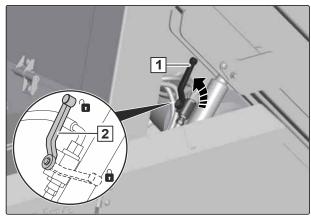


- 3. Switch off the engine.
- 4. Remove the ignition key.
- 5. Apply the parking brake.
- 6. Take the crank 1 out of the bracket on the cutting deck.
- 7. Push the handle of the crank through the hole in the longitudinal auger 2.
- 8. To remove foreign objects or blockages, turn the crank to the left or right.
- 9. Remove foreign objects.
- 10. Insert the crank in the bracket on the cutting deck.





- 11. To unlock the grass collector, turn the ball valve 1 on the left and right side to position 2.
- 12. Completely lower the grass collector, see page 113.



CMS-I-00002349

9.5 Cleaning the implement

CMS-T-00002722-F.



IMPORTANT

Risk of machine damage due to cleaning jet of the high-pressure nozzle

- Never direct the cleaning jet of the high-pressure cleaner or hot water high-pressure cleaner onto the marked components.
- Never aim the cleaning jet of high-pressure cleaners or hot water high-pressure cleaners on electrical or electronic components.
- Never aim the cleaning jet of the high pressure cleaner directly on lubrication points, bearings, rating plates, warning signs, and stickers.
- Always maintain a minimum distance of 30 cm between the high-pressure nozzle and the implement.
- Do not exceed a water pressure of 120 bar.



CMS-I-0000269



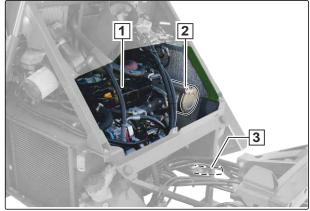
IMPORTANT

Fire hazard

- Remove grass residues in the area of the engine and exhaust system.
- 1. Park and secure the machine on a level surface.

9 | Repairing the machine Cleaning the implement

- 2. Remove grass residues in the engine 1, diesel particle filter 2 and exhaust system 3 areas only using compressed air.
- 3. Clean the radiator only with compressed air.
- 4. If a camera system is installed:
 Clean the cameras only with mild cleaners and a cloth.
- 5. Clean the rest of the machine with a highpressure cleaner or a hot water high-pressure cleaner.



CMC 1 0004470

Preparing the implement for transport

10

CMS-T-00014015-C.1

10.1 Loading the implement

CMS-T-00002694-G.1

CMS-T-00002737-C.1

10.1.1 Loading the implement with a crane

The machine without a cab has 2 attachment points for slings.



NOTE

The machine with a cab cannot be loaded with a crane.



WARNING

Risk of accidents due to improperly attached slings for lifting

If the slings are not attached at the marked lashing points, the implement can be damaged during lifting and endanger safety.

- Only attach the slings for lifting at the marked lashing points.
- ► To determine the required load-bearing capacity of the slings, observe the specifications in the following table.



CMS-I-00002438

Required	load-	bearing	capacity
----------	-------	---------	----------

1000 kg



REQUIREMENTS

- 1. Only attach the lifting gear at the marked positions.
- 2. Hang the slings on the crane with a crossbeam.
- 3. Load the machine with a crane.



CMS-I-00008

10.1.2 Driving the machine onto a transport vehicle

CMS-T-00014016-C.1

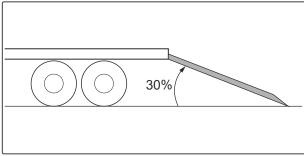


WARNING

Danger when loading and transporting the machine

Risk of serious injuries

- ► Do not drive the machine onto a transport vehicle when on a slope or incline.
- Only load the machine when the grass collector is completely empty and lowered.
- ► Load the machine forwards in the direction of travel of the transport vehicle.
- On machines with weatherproof tarpaulin: Remove the weatherproof tarpaulin, see page 119.
- 2. Position non-slip ramps at a maximum inclination of 30%.
- 3. Drive the machine slowly and carefully onto the trailer or HGV.
- 4. Switch of the engine and apply the parking brake.



CMS-I-00002439

10.1.3 Lashing the implement

The machine without a cab has 2 lashing points for securing the load.





CMS-I-00002440

The machine with a cab has 4 lashing points for securing the load.

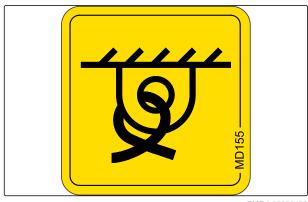


CMS-I-00004740



CMS-I-00004741

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



10.2 Towing the machine

CMS-T-00002707-C.1

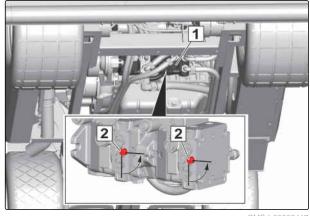


CAUTION

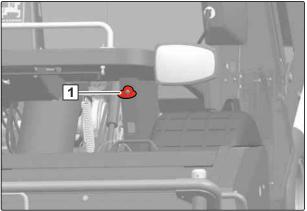
Loss of brake properties when the bypass valve is open

Risk of injury and accident

- Only tow the machine on level ground at low speed.
- ► Do not tow the machine on public roads.
- Only tow the machine for short distances.
- 1. Raise the cutting deck, see page 112.
- 2. Take the Allen key from the thread pack.
- 3. Loosen the bolts $\fbox{2}$ on the hydraulic pump $\fbox{1}$ by half a turn.
- The bypass valves are open. The machine can be towed.



- 4. Attach the towline to the towing eye 1.
- 5. After towing, close the bypass valve again.
- 6. After towing, apply the parking brake.



CMS-I-00002430

Disposing of the implement

11

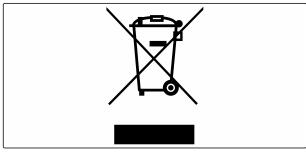
CMS-T-00010906-B.1



ENVIRONMENTAL INFORMATION

Environmental damage due to improper disposal

- Observe the regulations of the local authorities.
- Observe the symbols on the implement regarding disposal.
- Observe the following instructions.
- 1. Components with this symbol should not be disposed of with household waste.



CMS-I-00007999

2. Return batteries to the distributor

or

Dispose of batteries at a collection point.

- 3. Put recyclable materials in the recycling.
- 4. Treat operating materials like hazardous waste.



WORKSHOP WORK

5. Dispose of the coolant.

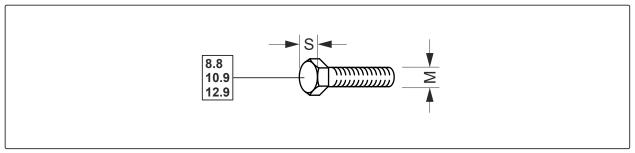
Appendix

12

CMS-T-00002703-D.1

12.1 Bolt tightening torques

CMS-T-00000373-E.1



CMS-I-000260

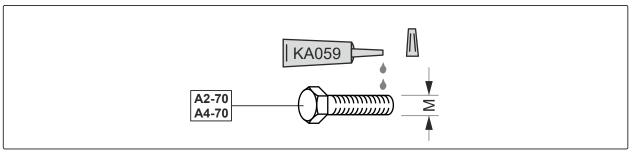
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NOTE

Unless specified otherwise, the bolt tightening torques listed in the table apply.

		Strength classes		
M	S	8.8	10.9	12.9
M8	40	25 Nm	35 Nm	41 Nm
M8x1	13 mm	27 Nm	38 Nm	41 Nm
M10	40(47)	49 Nm	69 Nm	83 Nm
M10x1	16(17) mm	52 Nm	73 Nm	88 Nm
M12	40(40)	86 Nm	120 Nm	145 Nm
M12x1.5	18(19) mm	90 Nm	125 Nm	150 Nm
M14	00	135 Nm	190 Nm	230 Nm
M 14x1.5	22 mm	150 Nm	210 Nm	250 Nm
M16	04	210 Nm	300 Nm	355 Nm
M16x1.5	24 mm	225 Nm	315 Nm	380 Nm
M18	07	290 Nm	405 Nm	485 Nm
M18x1.5	27 mm	325 Nm	460 Nm	550 Nm
M20	20	410 Nm	580 Nm	690 Nm
M20x1.5	30 mm	460 Nm	640 Nm	770 Nm

М	S	Strength classes		
IVI	3	8.8	10.9	12.9
M22	22 mm	550 Nm	780 Nm	930 Nm
M22x1.5	32 mm	610 Nm	860 Nm	1,050 Nm
M24	36 mm	710 Nm	1,000 Nm	1,200 Nm
M24x2		780 Nm	1,100 Nm	1,300 Nm
M27	41 mm	1,050 Nm	1,500 Nm	1,800 Nm
M27x2		1,150 Nm	1,600 Nm	1,950 Nm
M30	46 mm	1,450 Nm	2,000 Nm	2,400 Nm
M30x2	46 mm	1,600 Nm	2,250 Nm	2,700 Nm



CMS-I-00000065

M	Tightening torque M		Tightening torque	
M4	2.4 Nm	M14	112 Nm	
M5	4.9 Nm	M16	174 Nm	
M6	8.4 Nm	M18	242 Nm	
M8	20.4 Nm	M20	342 Nm	
M10	40.7 Nm	M22	470 Nm	
M12	70.5 Nm	M24	589 Nm	

12.2 Other applicable documents

CMS-T-00002704-C.1

- Yanmar diesel engine operating manual
- Operating manual and maintenance instructions for the air conditioning system
- Operating manual for the radio
- Operating manual of the camera system
- Installation instructions for weatherproof tarpaulin

Directories

13.1 Glossary

CMS-T-00002705-B.1

4

4WDi

This is what the machine's intelligent four-wheel drive is called.

C

CAN

CAN is the abbreviation for Controller Area Network. CAN bus designates the standard network in which all electronic components communicate with each other.

Ε

ECU

ECU is the abbreviation for Electronic Control Unit. Control units or engine control units are called this.

M

Machine

The self-propelled mower is always referred to as the machine in this operating manual.

0

Operating materials

Operating materials serve to ensure operational readiness. Operating materials include e.g. cleaning agents and lubricants such as lubricating oil, greases or cleaners.

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