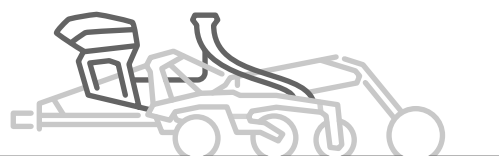




# Translation of the original operating instructions

Catch crop seed drill

GreenDrill 501-H



SmartLearning



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

# 1

CMS-T-00000081-F.1

## 1.1 Copyright

CMS-T-00012308-A.1

Reprinting, translation and reproduction in any form, including excerpts, require the written approval of AMAZONEN-WERKE.

## 1.2 Diagrams

CMS-T-005676-D.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

CMS-T-00002416-A.1



#### 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-B.1

#### 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

## 1.2.4 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-C.1

Dear reader, our operating manuals are updated regularly. Your suggestions for improvement help us to create ever more user-friendly operating manuals. Please send us your suggestions by post, fax or email.

AMAZONEN-WERKE H. Dreyer SE & Co. KG  
Technische Redaktion  
Postfach 51  
D-49202 Hasbergen  
Fax: +49 (0) 5405 501-234  
E-Mail: [td@amazone.de](mailto:td@amazone.de)

# Safety and responsibility

# 2

CMS-T-00006204-D.1

## 2.1 Basic safety instructions

CMS-T-00006205-D.1

### 2.1.1 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.

### 2.1.2 Safe operating organisation

CMS-T-00002302-D.1

#### 2.1.2.1 Personnel qualification

CMS-T-00002306-B.1

##### 2.1.2.1.1 Requirements for persons working with the implement

CMS-T-00002310-B.1

**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 checking the implement.
- 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 had 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.

#### 2.1.2.1.2 Qualification levels

CMS-T-00002311-A.1

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

- Farmer
- Agricultural helper

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

#### 2.1.2.1.3 Farmer

CMS-T-00002312-A.1

Farmers use agricultural implement to cultivate fields. They decide on the use of an implement for a specific purpose.

Farmers are basically familiar with working with agricultural implements and can instruct agricultural helpers in how to use the implements if necessary. They can perform odd tasks and simple maintenance and repair work on agricultural implements themselves.

**Farmers can be e.g.:**

- Farmers with higher education or training from a technical college
- Farmers by experience (e.g. inherited farm, comprehensive practical knowledge)
- Contractors who work by order of farmers

**Activity example:**

- Safety training for agricultural helpers

**2.1.2.1.4 Agricultural helpers**

CMS-T-00002313-A.1

Agricultural helpers use agricultural implements by order of the farmer. They are instructed on the use of the implement by the farmer, and work independently according to the work assignment from the farmer.

**Agricultural helpers can be e.g.:**

- Seasonal workers and labourers
- Prospective farmers in training
- Employees of the farmer (e.g. tractor driver)
- Family members of the farmer

**Activity examples:**

- Driving the machine
- Adjusting the working depth

**2.1.2.2 Workplaces and passengers**

CMS-T-00002307-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.

### **2.1.2.3 Danger for children**

CMS-T-00002308-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.

### **2.1.2.4 Operational safety**

CMS-T-00002309-D.1

#### **2.1.2.4.1 Perfect technical condition**

CMS-T-00002314-D.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 tractor and 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.

#### 2.1.2.4.2 Personal protective equipment

CMS-T-00002316-B.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.

#### 2.1.2.4.3 Warning symbols

CMS-T-00002317-B.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.

### 2.1.3 Knowing and preventing dangers

CMS-T-00006206-A.1

#### 2.1.3.1 Safety hazards on the machine

CMS-T-00002318-D.1

##### 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.

## 2.1.4 Safe operation and handling of the machine

CMS-T-00006207-C.1

### 2.1.4.1 Driving safety

CMS-T-00002321-E.1

#### **Risk when driving on roads and fields**

Any mounted or towed implement as well as front or rear ballast weights on the tractor influence the driving behaviour and the steering and braking power of the tractor. 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 tractor's steering and braking systems are operating correctly.
- ▶ *The tractor must provide the required brake lag for the tractor and mounted implement.*  
Check the function of the brakes before moving off.
- ▶ *The tractor front axle must always be loaded with at least 20 % of the empty tractor weight to ensure sufficient steering power.*  
Use front ballast weights if necessary.
- ▶ Always attach the front or rear ballast weights properly on the specified fixing points.
- ▶ Calculate and observe the permitted payload for the mounted or towed implement.
- ▶ Observe the permissible axle loads and drawbar loads of the tractor.
- ▶ Observe the permissible drawbar load of the hitch device and drawbar.
- ▶ Drive in such a way that you always have full control over the tractor with the mounted or towed implement. In so doing, take your personal abilities into account, as well as the road, traffic, visibility and weather conditions, the driving characteristics of the tractor, and the influence of the mounted implement.

#### **When driving on roads, risk of accident caused by uncontrolled lateral motions of the implement**

- ▶ Lock the tractor lower links for road travel.

#### **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.
- ▶ Follow the instructions in the section "Preparing the implement for road travel".

### **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 implement is in a stable position. In case of doubt, support the implement.
- ▶ Follow the instructions in the section "*Parking the implement*".

### **Unsupervised parking**

Parked tractors with coupled implements that are insufficiently secured and unsupervised represent danger for people and playing children.

- ▶ *Before you leave the machine,*  
shutdown the tractor and the implement.
- ▶ Secure the tractor and machine.

## **2.1.5 Safe maintenance and modification**

CMS-T-00002305-E.1

### **2.1.5.1 Changes on the implement**

CMS-T-00002322-B.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.

- ▶ Have any design changes and extensions performed only by a qualified specialist workshop.
- ▶ *To ensure that the operating permit remains valid in accordance with national and international regulations,*  
ensure that the specialist workshop only uses conversion parts, spare parts and special equipment approved by AMAZONE.

### 2.1.5.2 Work on the machine

CMS-T-00002323-D.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.
- ▶ *To immobilise the machine,*  
perform the following tasks.
- ▶ If necessary, secure the machine against rolling away with wheel chocks.
- ▶ Lower lifted loads down to the ground.
- ▶ Relieve the pressure in the hydraulic hose lines.
- ▶ *If you have to work on or under raised loads,*  
lower the loads or secure raised machine parts 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.
- ▶ Remove the key from the battery circuit breaker.
- ▶ 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.
- ▶ Maintenance work that is not described in this operating manual should only be performed by a qualified specialist workshop.
- ▶ Maintenance work on safety-related components should be performed only by a qualified specialist workshop.
- ▶ 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.

### **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 3-point mounting frame, drawbars, trailer support, trailer coupling, 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.

### **2.1.5.3 Operating materials**

CMS-T-00002324-C.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.

### **2.1.5.4 Special equipment and spare parts**

CMS-T-00002325-B.1

#### **Special equipment, accessories, and spare parts**

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

- ▶ Only use original parts or parts that meet AMAZONE requirements.
- ▶ *If you have any questions regarding special equipment, accessories or spare parts,*  
contact your dealer or AMAZONE.

## 2.2 Safety routines

CMS-T-00002300-C.1

### Securing the tractor and implement

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

- ▶ Lower the raised implement or raised implement parts.
- ▶ Relieve pressure in the hydraulic hose lines by actuating the operating devices.
- ▶ *If you have to stand under the raised implement or components,* secure the raised implement and components against lowering with a mechanical safety support or hydraulic locking device.
- ▶ Switch off the tractor.
- ▶ Apply the tractor's parking brake.
- ▶ Remove the ignition key.

### Securing the machine

After uncoupling, the implement has to be secured. If the implement and implement parts are not secured, there is a risk of personal injury due to crushing and cutting.

- ▶ Only park the implement on stable and level ground.
- ▶ *Before you depressurise the hydraulic hose lines and disconnect them from the tractor,* move the implement into working position.
- ▶ Protect people against direct contact with sharp-edged or protruding implement parts.

### 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.

## Intended use

# 3

CMS-T-00006133-A.1

- The implement is designed solely for professional use for the spreading of seed and fertiliser according to Good Agricultural Practices.
- The implement is an agricultural work machine for mounting on a carrying implement. The carrying implement has a special interface that meets the technical requirements.
- When driving on public roads, depending on the provisions of the applicable road traffic regulations, the implement can only be mounted and transported along with the carrying implement at the rear of a tractor that meets the technical requirements.
- The implement 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 implement. The implement is solely intended for use in compliance with this operating manual. Uses of the implement that are not described in this operating manual can lead to serious personal injuries or even death and to implement 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.

## EC Declaration of Incorporation

# 4

CMS-T-00006182-A.1

The EC Declaration of Incorporation states that the product meets the safety requirements and health requirements of the EC Directive as well as the requirements of the EMC Directive.

The operator is responsible for the proper mounting of the implement onto the carrying implement and for compliance with the standards and legal requirements.

The operator must ensure that the implement is operated without danger. This may include a suitable platform for safe operation of the implement. The platform must also be easily accessible. This may require the installation of steps.

Any danger for persons due to the mounting of the implement on the carrying implement must be ruled out in all situations.



### NOTE

AMAZONE is not liable for damage caused by faulty mounting and improper operation of the implement.

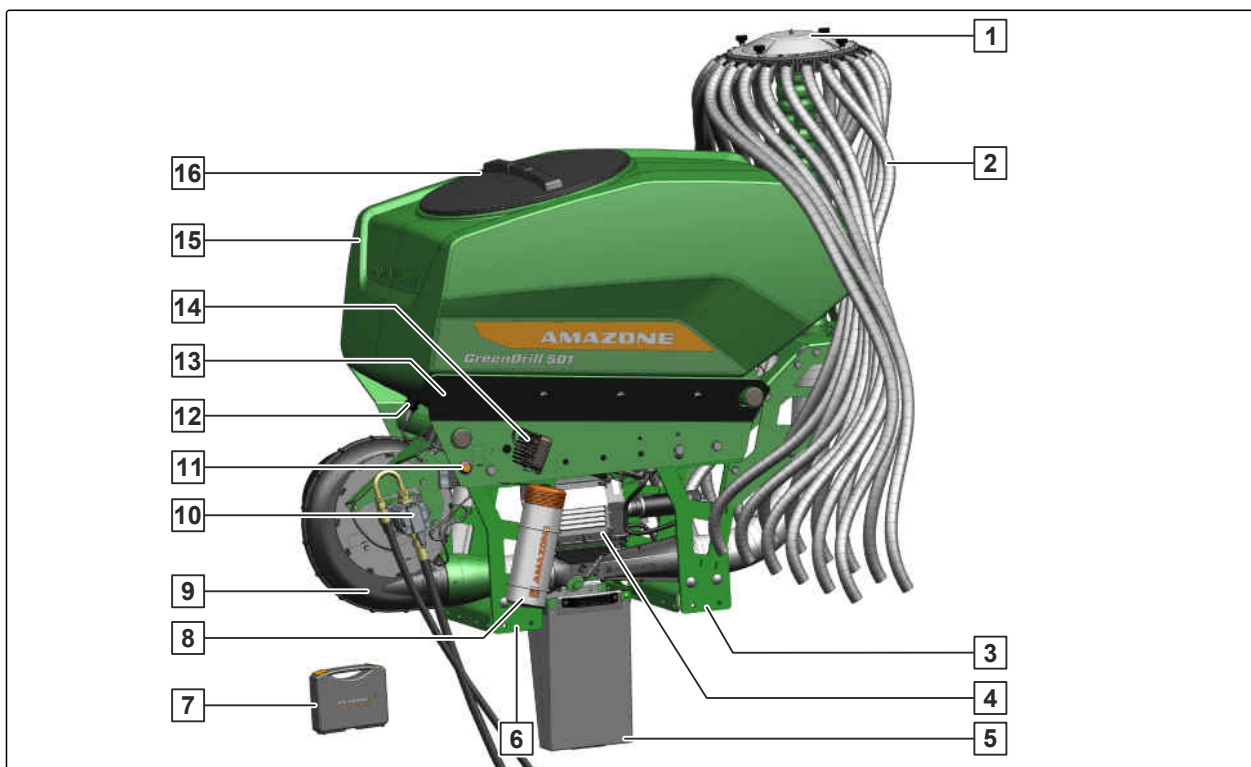
## Product description

5

CMS-T-00006130-G.1

### 5.1 Implement overview

CMS-T-00006214-B.1



CMS-I-00004416

- |                                                   |                                                   |
|---------------------------------------------------|---------------------------------------------------|
| <b>1</b> Segment distributor head                 | <b>2</b> Conveyor hose                            |
| <b>3</b> Rear interface to the carrying implement | <b>4</b> Metering unit                            |
| <b>5</b> Collection bag                           | <b>6</b> Rear interface to the carrying implement |
| <b>7</b> Case with calibration scale              | <b>8</b> Threaded cartridge                       |
| <b>9</b> Fan                                      | <b>10</b> Fan motor                               |
| <b>11</b> Calibration button                      | <b>12</b> Low level sensor                        |
| <b>13</b> Rating plate                            | <b>14</b> Work lights                             |
| <b>15</b> Hopper                                  | <b>16</b> Hopper cover                            |

## 5.2 Function of the implement

CMS-T-00006208-A.1

The implement is used to spread seed and fertiliser.

The implement is installed on a carrying implement.

The seed or fertiliser from the hopper is metered by the metering unit and conveyed to the distributor head by the fan air pressure. In the distributor head, the seed or fertiliser is uniformly distributed and conveyed to the spreading elements.

## 5.3 Special equipment

CMS-T-00006078-B.1

Special equipment is equipment that is not fitted on the implement or is only available in certain markets. The sales documents provide information on the equipment of your implement, or consult your dealer for more detailed information.

**The following equipment is considered special equipment:**

- Work lights
- Baffle plate
- Second outlet
- Second inlet with Y-piece
- Suction guard screen
- Cyclone separator
- Calibration button

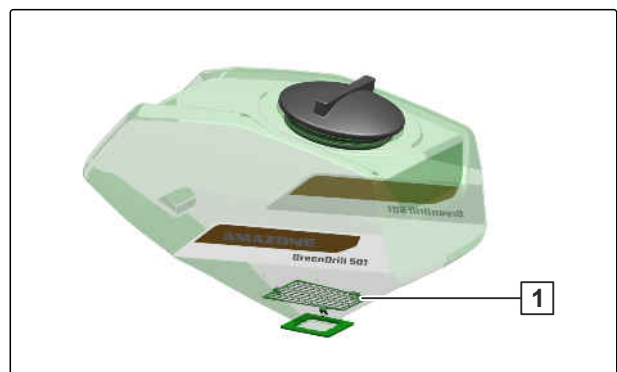
## 5.4 Protective equipment

CMS-T-00013376-A.1

### 5.4.1 Metering unit guard screen

CMS-T-00013377-A.1

The metering unit guard screen **1** on the hopper floor protects the user against injuries caused by rotating parts and the metering unit against foreign objects.



CMS-I-00008390

## 5.5 Warning symbols

CMS-T-00013236-A.1

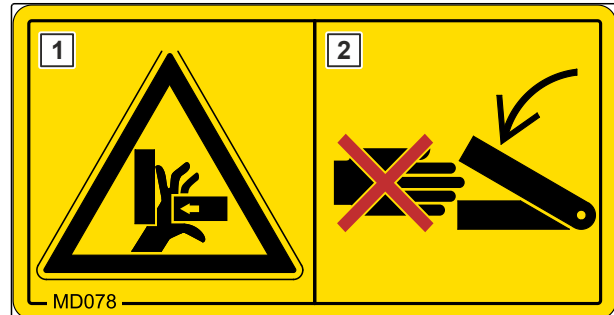
### 5.5.1 Layout of the warning symbols

CMS-T-000141-D.1

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
  - The order number
- Field **2** shows a pictogram depicting how to avoid the danger.



CMS-I-00000416

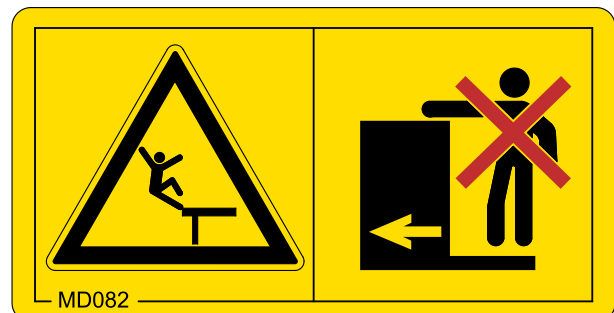
### 5.5.2 Description of the warning symbols

CMS-T-00013237-A.1

#### MD 082

##### Risk of falling from tread surfaces and platforms

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



CMS-I-000081

#### MD 265

##### Risk of chemical burns by dressing dust

- ▶ Do not breathe in the harmful substance.
- ▶ Avoid contact with eyes and skin.
- ▶ Before working with hazardous materials, put on the protective clothing recommended by the manufacturer.
- ▶ Follow the manufacturer's safety instructions for handling harmful substances.



CMS-I-00003659

## 5.6 Rating plate on the implement

CMS-T-00004505-G.1

- 1 Implement number
- 2 Vehicle ID number
- 3 Product
- 4 Permissible technical implement weight
- 5 Model year
- 6 Year of manufacture



CMS-I-00004294

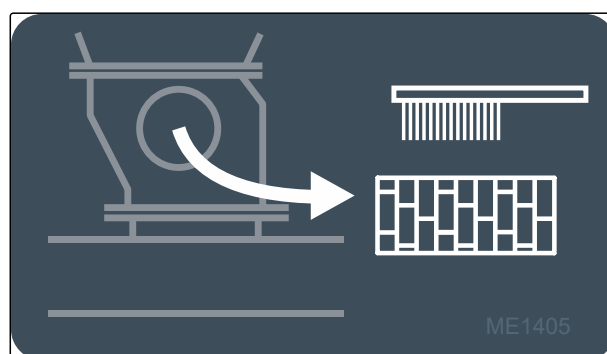
## 5.7 More information on the implement

CMS-T-00004205-G.1

### 5.7.1 Information picture for cleaning the metering unit

CMS-T-00004212-D.1

The information picture indicates that the metering roller must be cleaned after using the implement.



CMS-I-00003101

### 5.7.2 Information picture for the required and maximum fan speed

CMS-T-00004214-F.1

The information picture indicates the required and maximum fan speed. The specified fan speeds are only valid for the fan of the GreenDrill.

- 1 Recommended fan speed for fertiliser
- 2 Recommended fan speed for seed
- 3 Recommended fan speed for fine seed

|                                                                                     |                                                                                       |                                                                                       |                                                                                       |      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|
|  |  |  |  |      |
|                                                                                     | max. 5000 mih                                                                         | $\leq 150 \text{ kg/ha}$                                                              | $> 150 \text{ kg/ha}$                                                                 |      |
|                                                                                     | 3200                                                                                  | 4000                                                                                  | 4000                                                                                  | 4500 |

 min<sup>1</sup>  

3

 min<sup>1</sup>  

2

 min<sup>1</sup>  

1

CMS-I-00004431

### 5.7.3 Information picture for calibration button

CMS-T-00007472-B.1

The information picture marks the position of the calibration button.



CMS-I-00005205

## 5.8 Low level sensor

CMS-T-00003964-C.1

The low level sensor can be installed in 2 positions  
**1** in the hopper. The low level sensor emits a signal when the fill level of the hopper drops below the position of the low level sensor.



CMS-I-00002964

## 5.9 Metering unit

CMS-T-00003965-C.1

The metering unit **1** meters the seed or fertiliser with a metering roller to achieve the desired spread rate. The metered material falls out of the metering roller into the injector and are guided to the distributor head by the fan air current.

**The spread rate depends on the following factors:**

- Volume of the metering roller
- Speed of the metering roller

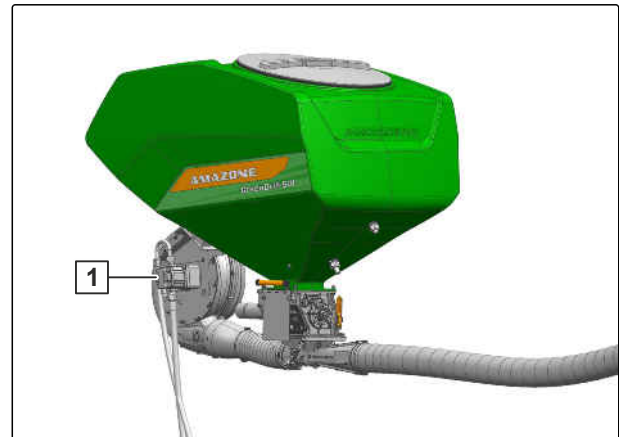


CMS-I-00003050

## 5.10 Fan

CMS-T-00003970-C.1

The fan **1** of the GreenDrill is hydraulically driven. The fan generates the air current that conveys the metered material. The fan air current depends on the fan speed. The ISOBUS software monitors the fan speed and issues a warning when the fan speed drops below the setpoint.

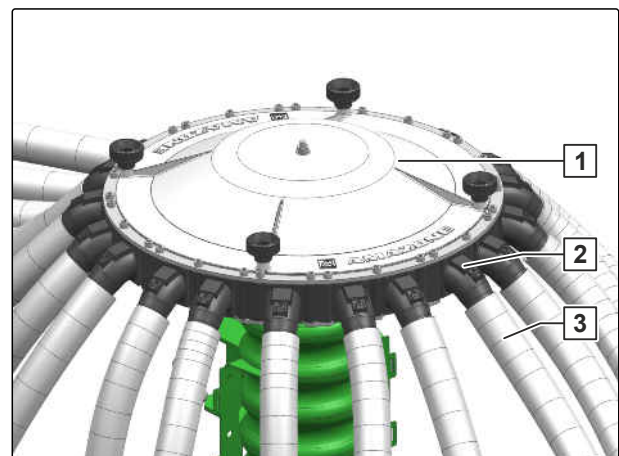


CMS-I-00002971

## 5.11 Segment distributor head

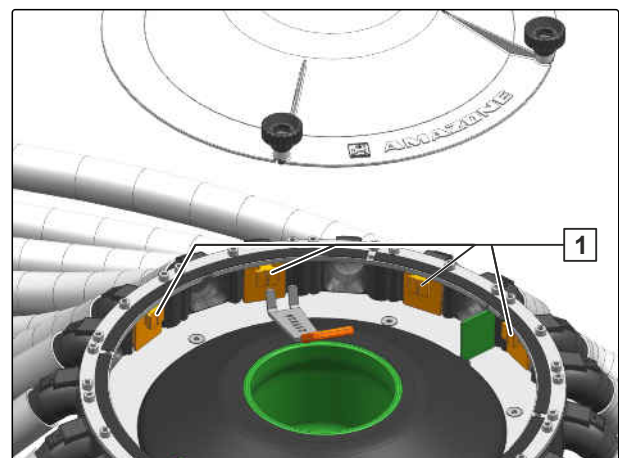
CMS-T-00003968-E.1

The metered material is distributed to all of the spread points in the segment distributor head **1**. The distributor head has segments **2**, to which the seed lines **3** are connected.



CMS-I-00003164

To produce large row spacings or to vary the spread points on the implement, individual segments can be closed off with sealing plugs **1**.



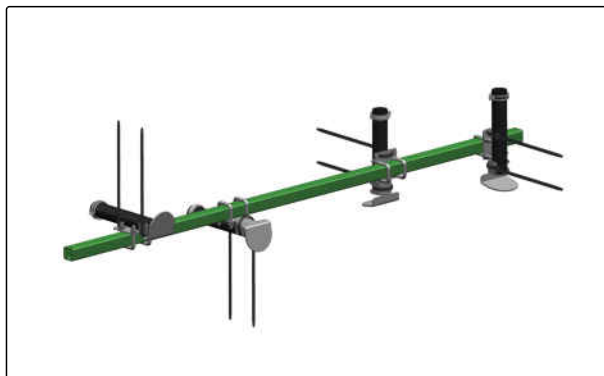
CMS-I-00002973

## 5.12 Spreading elements

CMS-T-00006199-C.1

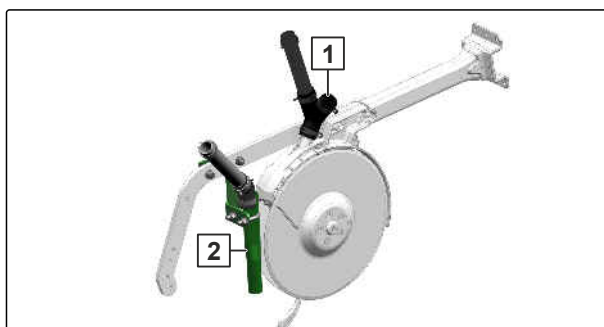
Depending on the equipment options of the carrying implement, the following spreading elements are available:

**Baffle plate:** the metered material is blown out onto the baffle plate, where it is spread.



CMS-I-00003092

- 1** Y-piece: the metered material is routed to the seeding coulters of the carrying implement through the existing spreading tubes.
- 2** Spreading tube: the metered material is spread by the seeding coulters of the carrying implement through spreading tubes.



CMS-I-00003093

## 5.13 Digital scale

CMS-T-00004204-C.1

The digital scale is used to weigh the calibrated quantity.

If the GreenDrill is installed on a carrying implement without digital scale, a digital scale is provided.



CMS-I-00003089

## 5.14 Threaded cartridge

CMS-T-00001776-E.1

The threaded cartridge contains the following items:

- Documents
- Aids



CMS-I-00002306

# Technical data

6

CMS-T-00003946-D.1

## 6.1 Hopper

CMS-T-00004055-C.1

| Hopper volume | Diameter of the filling opening |
|---------------|---------------------------------|
| 500 l         | 540 mm                          |

## 6.2 Maximum fan speed of the implement' own fan

CMS-T-00004056-D.1

|             |
|-------------|
| 5,000 1/min |
|-------------|

# Executing practical routines

7

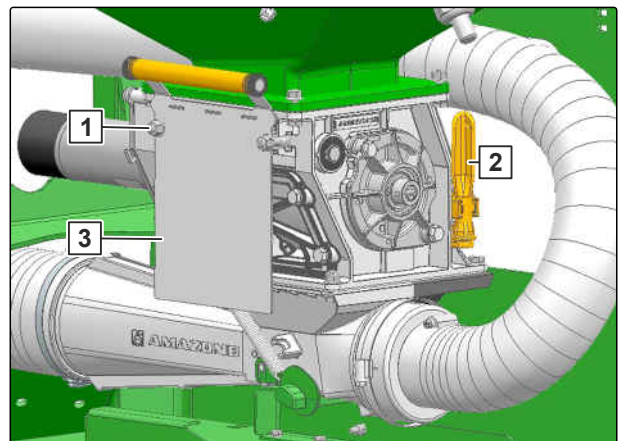
CMS-T-00004057-F.1

## 7.1 Using the shutter

CMS-T-00004147-E.1

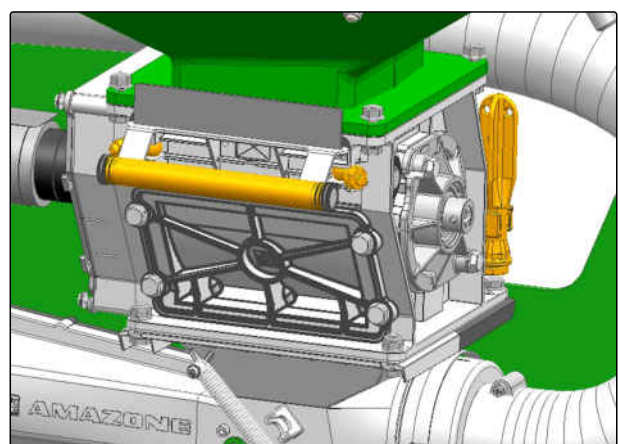
The shutter separates the hopper from the metering unit. The shutter prevents the spreading material from escaping uncontrollably.

1. Loosen the nuts of the eye bolts **1** with the spanner **2**.
2. Take the shutter **3** out of the holder.
3. Swivel the eyebolts **1** to the side.



CMS-I-00002997

4. Slide the shutter into the metering unit up to the stop.



CMS-I-00002996

## Preparing the machine

8

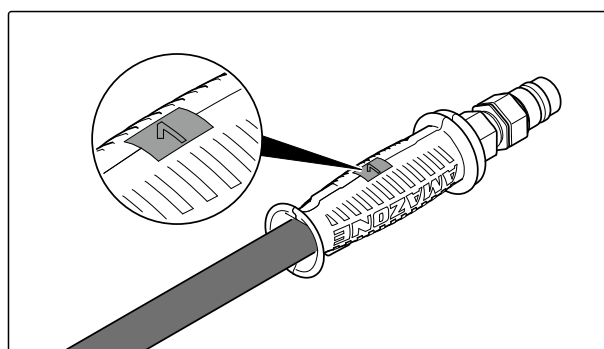
CMS-T-00006162-G.1

### 8.1 Coupling the implement

CMS-T-00007474-C.1

All hydraulic hoses are equipped with handles. The handles have colour markings with a code number or a code letter. The markings are assigned to the respective hydraulic functions of the pressure line of a tractor control unit.

The tractor control unit is used with different types of actuation, depending on the hydraulic function:



CMS-I-00000121

| Type of actuation | Function                                  | Symbol |
|-------------------|-------------------------------------------|--------|
| Latching          | Permanent oil circulation                 |        |
| Momentary         | Oil circulation until action is executed  |        |
| Floating          | Free oil flow in the tractor control unit |        |

| Designation |  | Function                                  | Tractor control unit |  |
|-------------|--|-------------------------------------------|----------------------|--|
| Red         |  | Switch the hydraulic fan motor on and off | Single-acting        |  |
| Red         |  | Pressure-free return flow                 |                      |  |



## WARNING

### Risk of injury or even death

If the hydraulic hose lines are incorrectly connected, the hydraulic functions may be faulty.

- ▶ When coupling the hydraulic hose lines, observe the coloured markings on the hydraulic plugs.

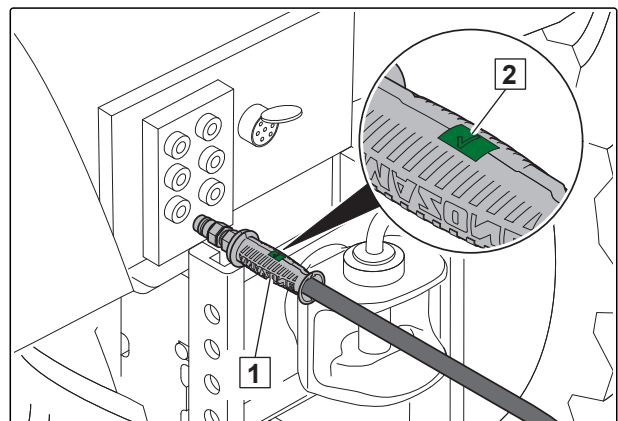


## IMPORTANT

### Implement damage due to insufficient hydraulic oil return flow

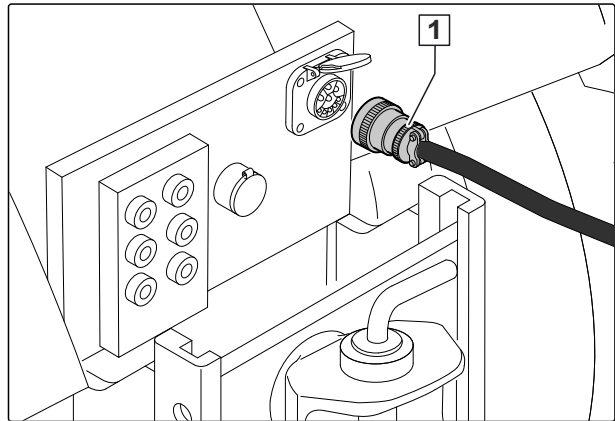
- ▶ Only use DN16 lines for the pressureless hydraulic oil return flow.
- ▶ Select short return paths.
- ▶ Connect the pressureless hydraulic return flow correctly.
- ▶ Install the supplied coupling sleeve on the pressureless hydraulic oil return.

1. Depressurise the hydraulic system between the tractor and the implement using the tractor control unit.
  2. Clean the hydraulic plugs.
  3. Couple the hydraulic hose lines **1** to the hydraulic sockets of the tractor according to the marking **2**.
- ➔ The hydraulic plugs lock perceptibly.
4. Route the hydraulic hose lines with sufficient freedom of movement and without chafing points.



CMS-I-00001045

5. Insert the plug **1** of the ISOBUS line.
6. Route the ISOBUS line with sufficient freedom of movement and without chafing or pinching points.



CMS-I-00004333

## 8.2 Preparing the implement for operation

CMS-T-00006161-F.1

### 8.2.1 Positioning the low level sensor

CMS-T-00003976-A.1

The low level sensor can be installed in 2 positions in the seed hopper. The mount without low level sensor is closed off with a sealing plug.

To position the low level sensor, the following recommendations apply:

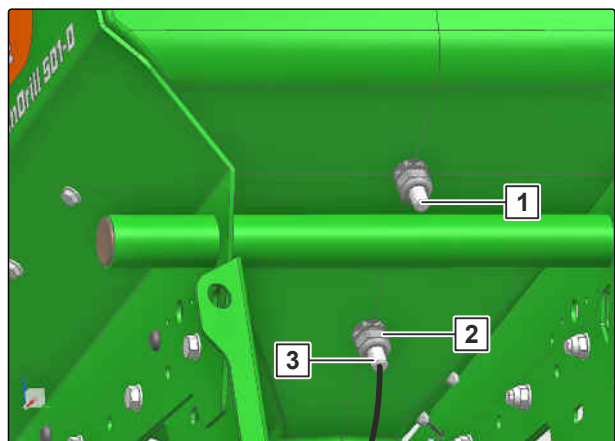
- The upper position for cereals and legumes
- The lower position for fine seeds



#### REQUIREMENTS

- ✓ The seed hopper is empty

1. Loosen the nuts **2** on the low level sensor **3** and on the sealing plug **1**.
2. Pull the low level sensor and the sealing plug out of the mounts.
3. Insert the low level sensor and the sealing plug each into the other mount.
4. Tighten the nuts.



CMS-I-00003083

## 8.2.2 Preparing the metering unit for operation

CMS-T-00004128-I.1

### 8.2.2.1 Selecting the metering roller

CMS-T-00003574-H.1

| Spread<br>ing<br>material         | Metering volume      |                     |                    |                    |                     |                     |                     |                     |                     |                     |
|-----------------------------------|----------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                                   | 3.75 cm <sup>3</sup> | 7.5 cm <sup>3</sup> | 20 cm <sup>3</sup> | 40 cm <sup>3</sup> | 120 cm <sup>3</sup> | 210 cm <sup>3</sup> | 350 cm <sup>3</sup> | 600 cm <sup>3</sup> | 660 cm <sup>3</sup> | 880 cm <sup>3</sup> |
| Beans                             |                      |                     |                    |                    |                     |                     |                     |                     | X                   |                     |
| Buckwh<br>eat                     |                      |                     |                    |                    |                     | X                   |                     | X                   |                     |                     |
| Spelt                             |                      |                     |                    |                    |                     |                     |                     | X                   | X                   | X                   |
| Peas                              |                      |                     |                    |                    |                     |                     |                     |                     | X                   |                     |
| Flax<br>(dresse<br>d)             |                      |                     | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Barley                            |                      |                     |                    |                    |                     | X                   | X                   | X                   |                     | X                   |
| Grass<br>seeds                    |                      |                     |                    |                    |                     | X                   |                     |                     |                     |                     |
| Oats                              |                      |                     |                    |                    |                     | X                   | X                   | X                   |                     | X                   |
| Millet                            |                      |                     | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Carawa<br>y                       |                      | X                   | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Lupines                           |                      |                     |                    |                    | X                   |                     | X                   |                     | X                   |                     |
| Lucern<br>e                       |                      | X                   | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Maize                             |                      |                     |                    |                    | X                   |                     |                     |                     |                     |                     |
| Poppy                             | X                    | X                   | X                  |                    |                     |                     |                     |                     |                     |                     |
| Oilseed<br>(moist<br>dressed<br>) |                      | X                   | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Fodder<br>radish                  |                      | X                   | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Phaceli<br>a                      |                      | X                   | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Rapese<br>ed                      | X                    | X                   | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Rye                               |                      |                     |                    |                    |                     | X                   | X                   | X                   |                     | X                   |
| Red<br>clover                     |                      | X                   | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Mustar<br>d                       |                      |                     | X                  | X                  |                     |                     |                     |                     |                     |                     |

| Spreading material    | Metering volume      |                     |                    |                    |                     |                     |                     |                     |                     |                     |
|-----------------------|----------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                       | 3.75 cm <sup>3</sup> | 7.5 cm <sup>3</sup> | 20 cm <sup>3</sup> | 40 cm <sup>3</sup> | 120 cm <sup>3</sup> | 210 cm <sup>3</sup> | 350 cm <sup>3</sup> | 600 cm <sup>3</sup> | 660 cm <sup>3</sup> | 880 cm <sup>3</sup> |
| Soya                  |                      |                     |                    |                    |                     |                     | X                   |                     | X                   |                     |
| Sunflowers            |                      |                     |                    |                    | X                   | X                   |                     | X                   |                     | X                   |
| Turnips               |                      | X                   | X                  | X                  |                     |                     |                     |                     |                     |                     |
| Triticale             |                      |                     |                    |                    |                     | X                   |                     | X                   |                     | X                   |
| Wheat                 |                      |                     |                    |                    |                     | X                   | X                   | X                   |                     | X                   |
| Vetches               |                      |                     | X                  | X                  |                     | X                   |                     |                     |                     |                     |
| Fertiliser (granular) |                      |                     |                    |                    |                     |                     | X                   |                     | X                   |                     |



#### NOTE

For granular fertiliser, always use a flexible roller with a metering volume of 350 cm<sup>3</sup> or 660 cm<sup>3</sup>.

The selection of metering rollers are recommendations. The optimum metering roller can only be determined through calibration.

1. The metering roller according to the spreading material can be found in the table.
2. *To install the desired metering roller:*  
See "Changing the metering roller".
3. *To perform the calibration:*  
See "Calibrating the metered quantity".

### 8.2.2.2 Converting modular metering rollers

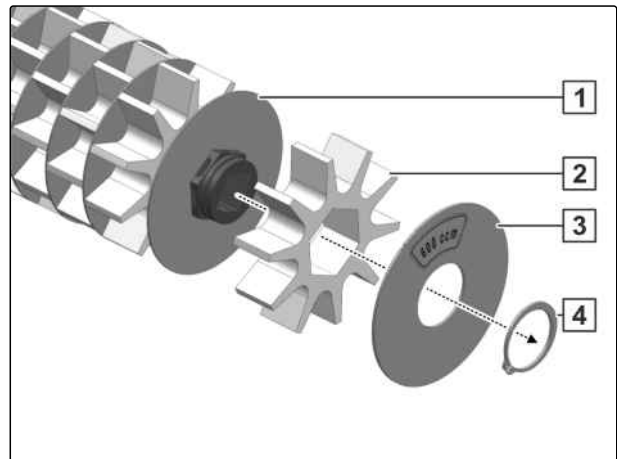
CMS-T-00003613-H.1

#### 8.2.2.2.1 Enlarging the metering chambers

CMS-T-00003564-F.1

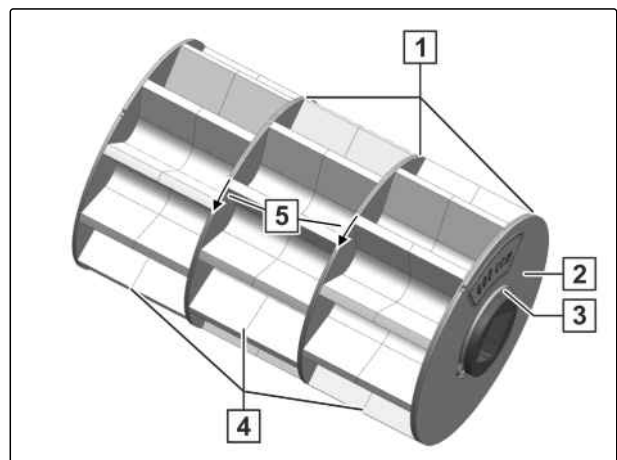
When very large seeds need to be metered, the chambers of the modular metering roller must be enlarged.

1. Remove the locking ring **4**.
2. Remove the end plate **3**.
3. Remove the metering wheels **2** and intermediate plates **1**.



CMS-I-00002550

4. Install the metering wheels **4** and intermediate plates **1** in pairs.
5. *For uniform concentricity:*  
Install the metering chambers with a uniform offset **5**.
6. Install the end plate **2**.
7. Install the locking ring **3**.



CMS-I-00002551

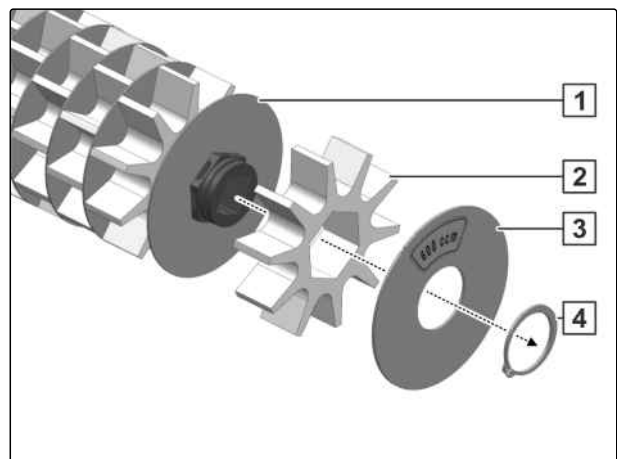
#### 8.2.2.2.2 Adjusting the metering volume

CMS-T-00003614-G.1

The volume of a metering roller can be modified by repositioning, removing or inserting metering wheels.

The volume of the metering roller should only be large enough so that the desired quantity of spreading material can be spread.

1. Remove the locking ring **4**.
2. Remove the end plate **3**.
3. Remove the metering wheels **2** and intermediate plates **1**.

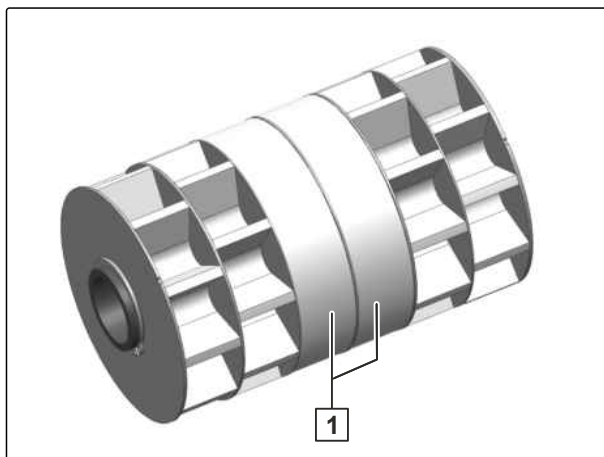


CMS-I-00002550

## 8 | Preparing the machine

### Preparing the implement for operation

4. *For uniform concentricity:*  
Position the metering wheels without chambers **1** symmetrically at the centre **2**.
5. Install the metering wheels and intermediate plates.
6. Install the end plate.
7. Install the locking ring.

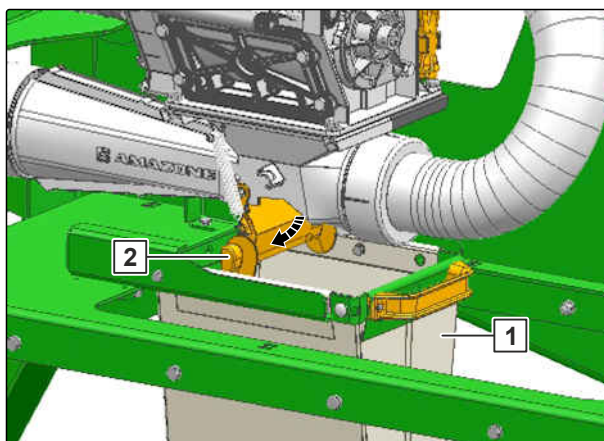


CMS-I-00002552

#### 8.2.2.3 Installing the metering roller

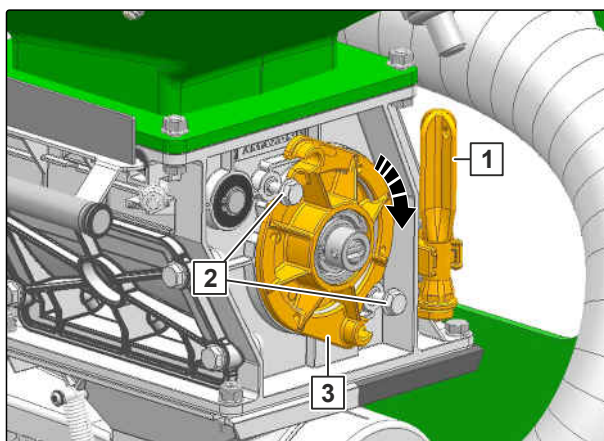
CMS-T-00003972-D.1

1. *When the seed hopper is filled,*  
insert the shutter, see page 29
2. Push the collection bag **1** under the metering unit.
3. Open the injector flap **2**.



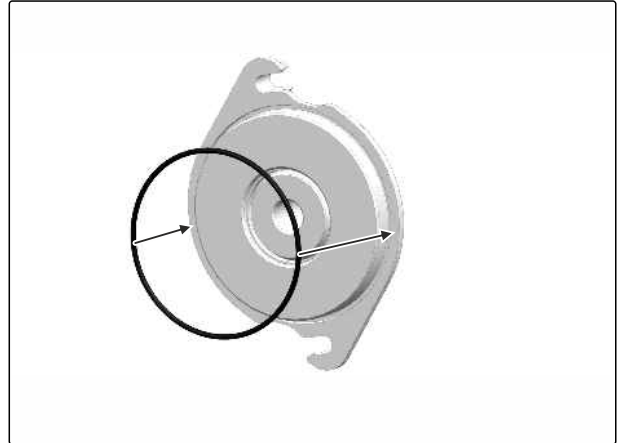
CMS-I-00003001

4. Using the spanner **1**, loosen the bolts **2**.
5. Turn the bearing cover **3** in the direction of the arrow.
6. Remove the bearing cover.



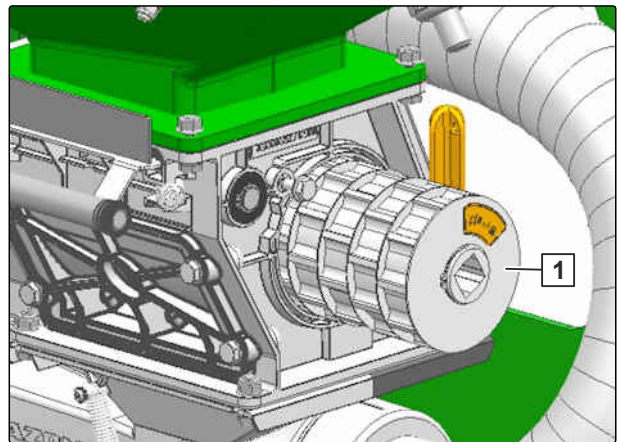
CMS-I-00003000

7. Check the sealing ring of the bearing cover for damage.
8. *If the sealing ring is damaged, replace it.*



CMS-I-00002999

9. Take out the inserted metering roller **1**.
10. Insert a new metering roller.



CMS-I-00002998

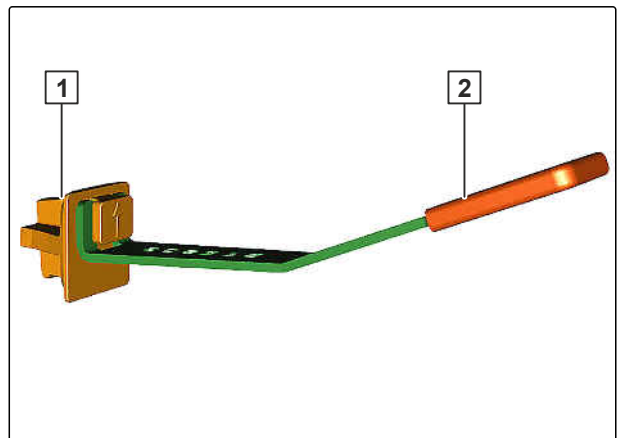
11. Assemble again in the reverse order.

### 8.2.3 Defining the row spacings and spread points

CMS-T-00003978-D.1

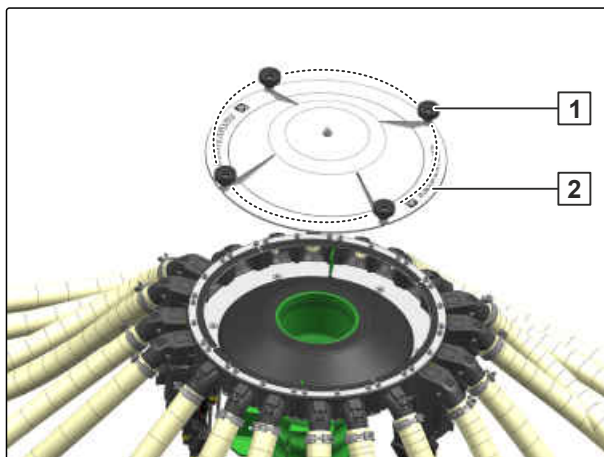
To produce wider row spacings or to vary the spread points, seed lines can be closed off using sealing plugs in the distributor head.

To insert or remove the sealing plugs **1**, a special tool **2** is supplied.



CMS-I-00003100

1. Unscrew the knurled screws **1**.
2. Remove the cover **2**.

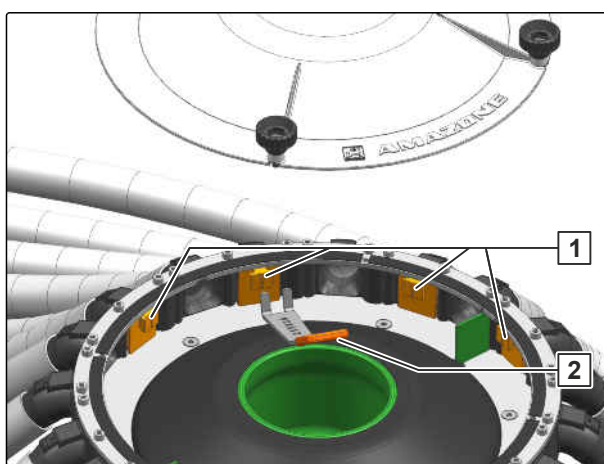


CMS-I-00003190

3. Insert the sealing plugs **1** with the special tool **2**

or

Remove the sealing plugs with the special tool.



CMS-I-00003247

#### 8.2.4 Filling the hopper

CMS-T-00003977-D.1

1. Switch off the fan.
2. Switch off control terminal.

#### **i** NOTE

Information about the ascents to the hopper for AMAZONE carrying implements can be found in the operating manuals for the carrying implements.

3. Open the hopper cover **1**.

**WARNING** Risk of chemical burns by dressing dust

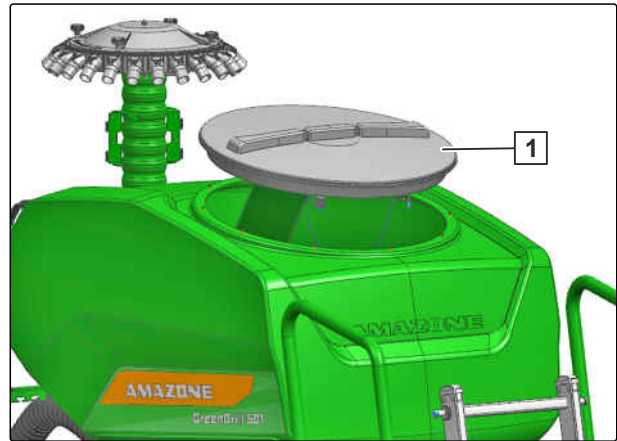
- Before working with hazardous materials, put on the protective clothing recommended by the manufacturer.

4. Fill the metered material from a BigBag into the seed hopper.
5. close the hopper cover.



**NOTE**

Due to the variance in the metered material, AMAZONE recommends calibrating the spread rate after each filling.



CMS-I-00003085

### 8.2.5 Preparing for spread rate calibration

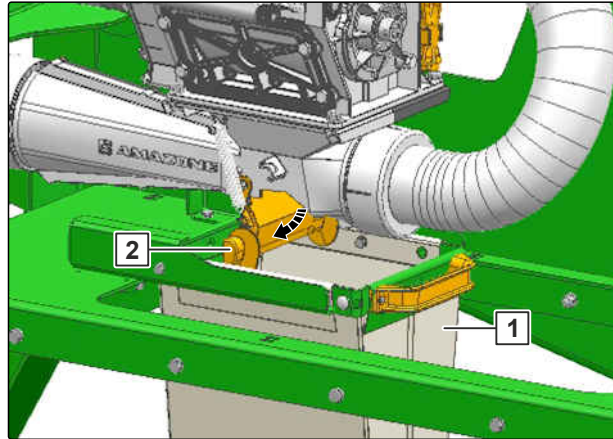
CMS-T-00004131-D.1



#### NOTE

Depending on the carrying implement, there are 2 different calibration bags.

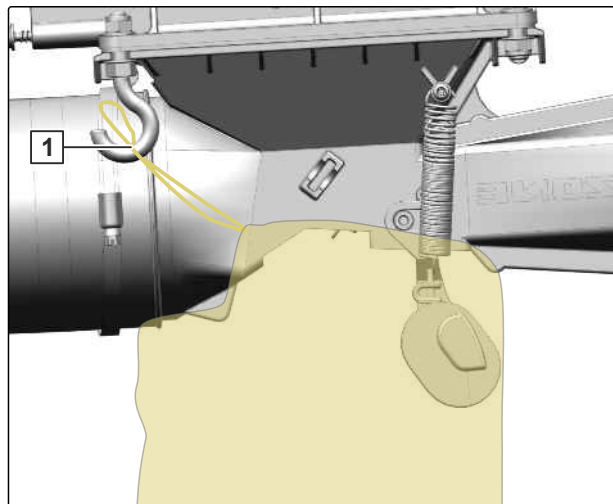
1. Slide calibration bag **1** under the metering unit and open injector flap **2**



CMS-I-00003001

or

Open the injector flap and fasten the calibration bag with a knot **1** as shown.



CMS-I-00004444

2. *To calibrate the spread rate,*  
refer to the ISOBUS operating manual.

### 8.2.6 Adjusting the fan

CMS-T-00006211-D.1

#### 8.2.6.1 Determining the required fan speed

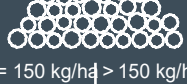
CMS-T-00004017-E.1

To determine the required fan speed, the shown sticker is attached to the implement.

**NOTE**

The specifications for the fan speed are recommendations. If metered material remains in the hose package or is blown out of the seedbed, the setting must be adjusted.

- Read the fan speed for fertiliser **1**, seed **2** or fine seeds **3** from the table.

|  |  |  |                    |             |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------|
|                                                                                   |                                                                                     |                                                                                     | < = 150 kg/ha                                                                                         | > 150 kg/ha |
| max. 5000 min <sup>-1</sup>                                                       | 3200                                                                                | 4000                                                                                | 4000                                                                                                  | 4500        |
| ME1515                                                                            | <b>3</b>                                                                            | <b>2</b>                                                                            |  min <sup>-1</sup> |             |
|                                                                                   |                                                                                     |                                                                                     | <b>1</b>                                                                                              |             |

CMS-I-00004431

## 8.2.6.2 Adjusting the fan speed on the fan of the GreenDrill

CMS-T-00004016-G.1

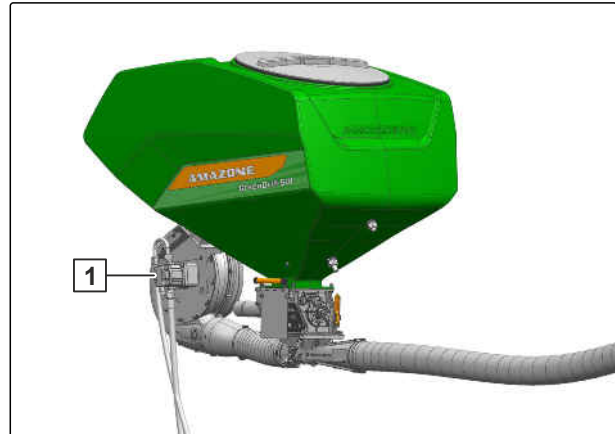
### 8.2.6.2.1 Adjusting the fan speed for tractors with flow control valve

CMS-T-00004010-G.1

#### 8.2.6.2.1.1 Adjusting the fan speed using a round pressure relief valve

CMS-T-00003975-G.1

The pressure relief valve is installed on the hydraulic fan motor **1**.



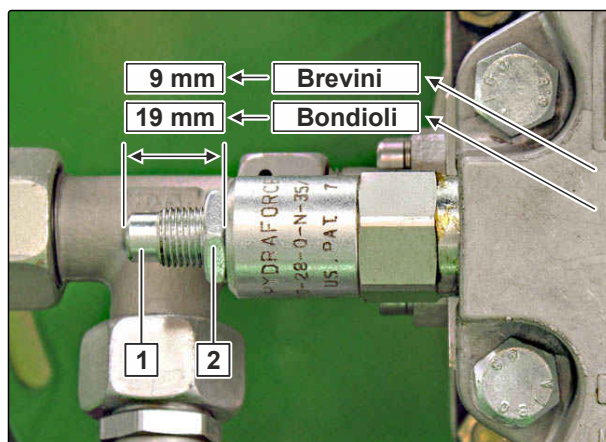
CMS-I-00002971



## REQUIREMENTS

- ✓ The required fan speed has been determined, see page 40

1. Remove the lock nut **2**.
2. Using the bolt **1**, adjust the pressure relief valve to the specified dimension.
3. Tighten the lock nut.
4. Adjust the fan speed using the flow control valve of the tractor.

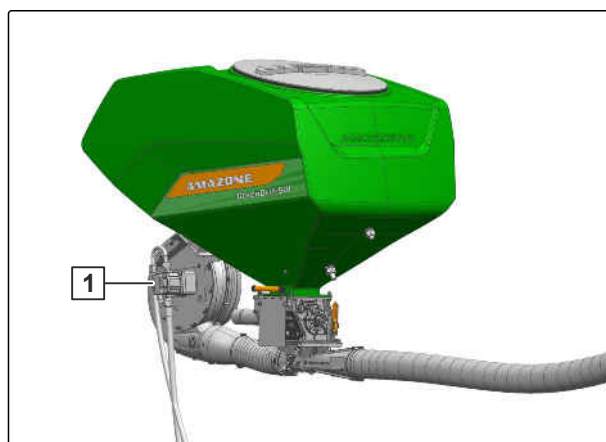


CMS-I-00003030

### 8.2.6.2.1.2 Adjusting the fan speed using a square pressure relief valve

CMS-T-00004011-E.1

The pressure relief valve is installed on the hydraulic fan motor **1**.



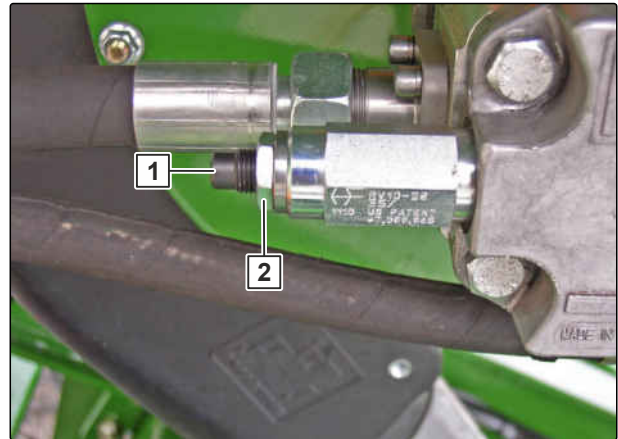
CMS-I-00002971



## REQUIREMENTS

- ☑ The required fan speed has been determined, see page 40

1. Remove the lock nut **2**.
2. Screw in the bolt **1** completely.
3. Unscrew the bolt by 3 turns.
4. Tighten the lock nut.
5. Adjust the fan speed using the flow control valve of the tractor.

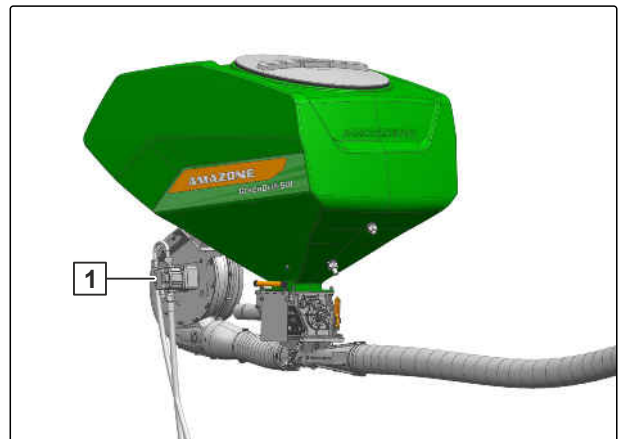


CMS-I-00003029

### 8.2.6.2.2 Adjusting the fan speed for tractors without flow control valve

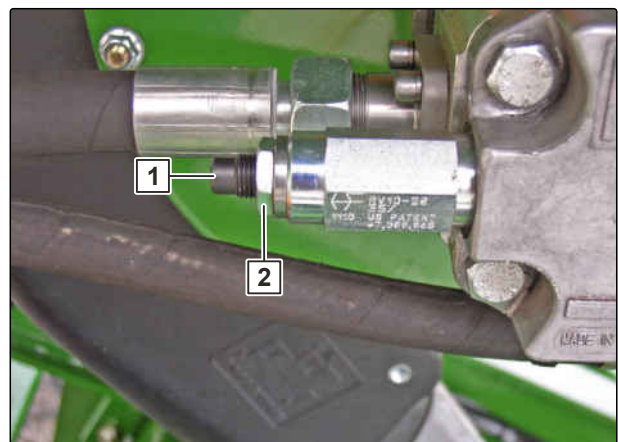
CMS-T-00004014-C.1

The pressure relief valve is installed on the hydraulic fan motor **1**.



CMS-I-00002971

1. Remove the lock nut **2**.
2. *To increase the fan speed:*  
screw in the bolt **1**
- or
- To reduce the fan speed:*  
screw out the bolt **1**
3. Tighten the lock nut.



CMS-I-00003029

## 8.3 Preparing the implement for road travel

CMS-T-00011817-B.1

### 8.3.1 Switching off the work lights

CMS-T-00013240-A.1

- Switch off the work lights **1** using the ISOBUS software.



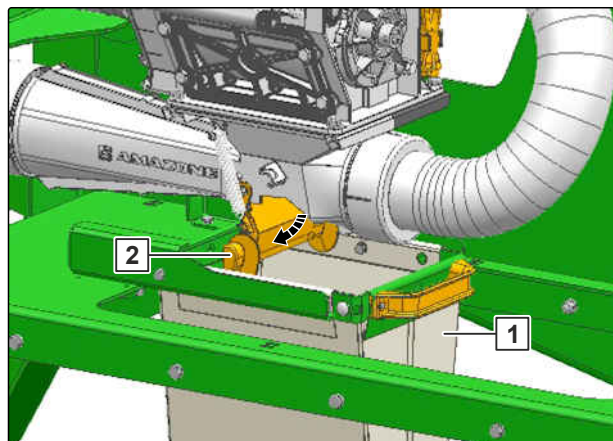
CMS-I-00003045

### 8.3.2 Emptying the metering unit and hopper

CMS-T-00004021-D.1

1. *If only the metering unit is to be emptied,*  
insert the shutter, see page 29.
2. Push the collection bag **1** under the metering unit.
3. Open the injector flap **2**.
4. *To start the metering unit,*  
Press the calibration button  
  
or

Start the metering unit using the ISOBUS software.



CMS-I-00003001

5. Empty the calibration bag.
6. repeat the procedure.

## Using the machine

# 9

CMS-T-00003952-H.1

### 9.1 Spreading the metered material

CMS-T-00004022-C.1

- *To start spreading,*  
refer to the operating manual for the ISOBUS software.

### 9.2 Switching on the work lights

CMS-T-00004150-D.1

- Switch on the work lights **1** using the ISOBUS software.



CMS-I-00003045

### 9.3 Performing maintenance work during operation

CMS-T-00004193-G.1

- Clean the suction guard screen or cyclone separator, see page 51.

## Eliminating faults

# 10

CMS-T-00003980-C.1

| Errors                                     | Cause                                                                                                 | Solutions                                                                                |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| The spread rate deviates from the setpoint | The " <i>Pulses per 100 m</i> " calibration factor is not suitable for the change in soil conditions. | ► Adjust the " <i>Pulses per 100 m</i> " calibration factor through the ISOBUS software. |
|                                            | Moist seed                                                                                            | ► Use dry seed.                                                                          |

# Parking the machine

# 11

CMS-T-00006192-E.1

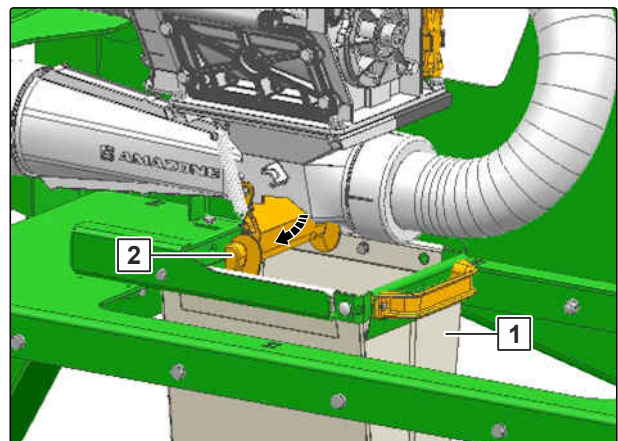
## 11.1 Emptying the metering unit and hopper

CMS-T-00004021-D.1

1. *If only the metering unit is to be emptied,*  
insert the shutter, see page 29.
2. Push the collection bag **1** under the metering unit.
3. Open the injector flap **2**.
4. *To start the metering unit,*  
Press the calibration button

or

Start the metering unit using the ISOBUS software.



CMS-I-00003001

5. Empty the calibration bag.
6. repeat the procedure.

## 11.2 Cleaning the metering unit

CMS-T-00004146-D.1



### IMPORTANT

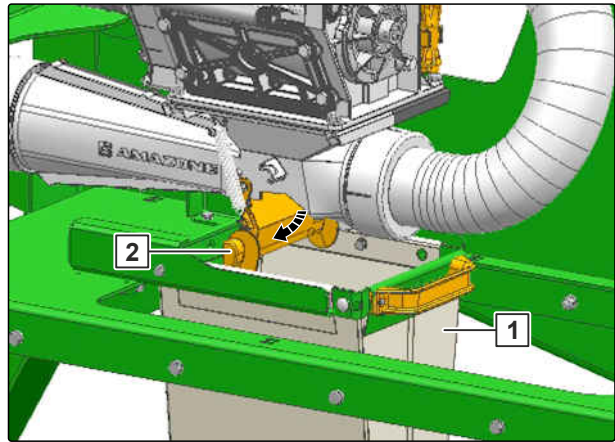
**Risk of damage to the metering drive due to swelling fertiliser or germinating seed.**

- ▶ Empty the metering unit after operation.
- ▶ Clean the metering unit after operation.

## 11 | Parking the machine

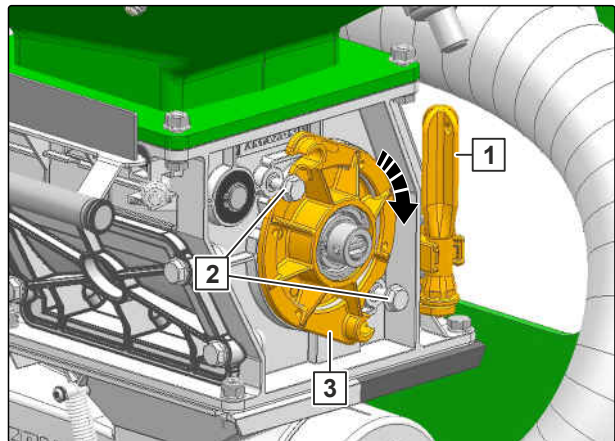
### Cleaning the metering unit

1. *If the metered material should stay in the hopper,*  
insert the shutter, see page 29
2. Push the collection bag **1** under the metering unit.
3. Open the injector flap **2**.



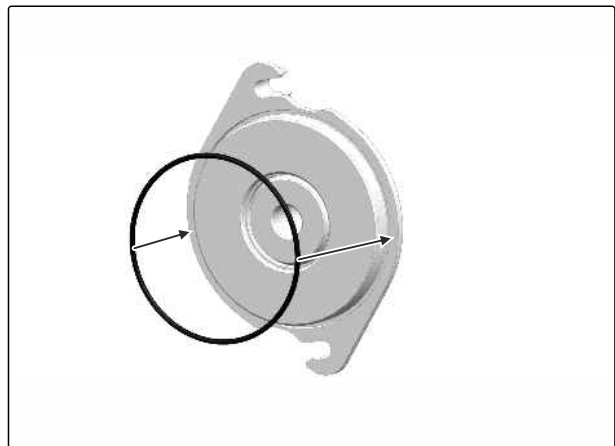
CMS-I-00003001

4. Using the spanner **1**, loosen the bolts **2**.
5. Turn the bearing cover **3** in the direction of the arrow.
6. Remove the bearing cover.



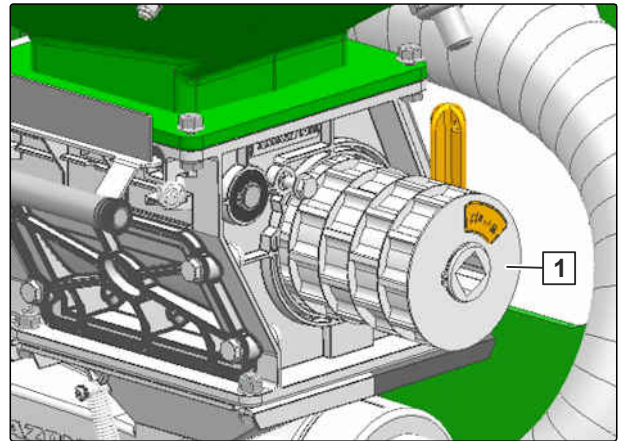
CMS-I-00003000

7. Check the sealing ring of the bearing cover for damage.
8. *If the sealing ring is damaged:*  
replace it.



CMS-I-00002999

9. Take out the inserted metering roller **1**.
10. Clean the metering roller using a paint brush, hand brush or with compressed air.
11. Clean the metering roller housing using a paint brush, hand brush or with compressed air.



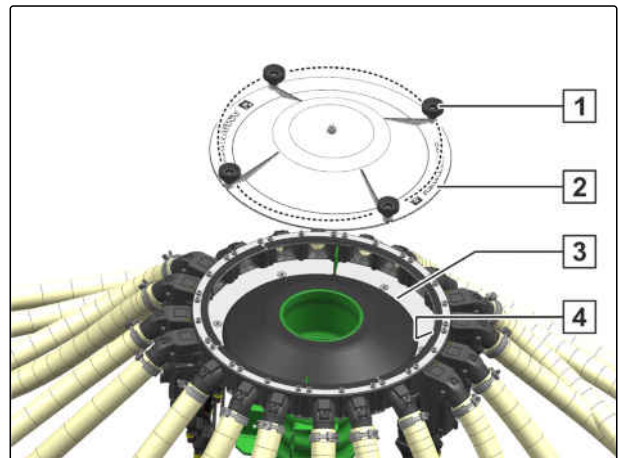
CMS-I-00002998

12. Store the metering roller outside of the metering roller housing.
13. Close the metering roller housing with the bearing cover.
14. Leave the injector flap open.

### 11.3 Cleaning the segment distributor head

CMS-T-00004148-C.1

1. Loosen the 4 knurled screws **1**.
2. Remove the cover **2**.
3. Clean the segment distributor head **3** using a paint brush, hand brush or with compressed air.
4. Clean the seed outlets and tramline segments **4** using a paint brush, hand brush or with compressed air.
5. Install the cover.
6. Tighten the 4 knurled screws by hand.

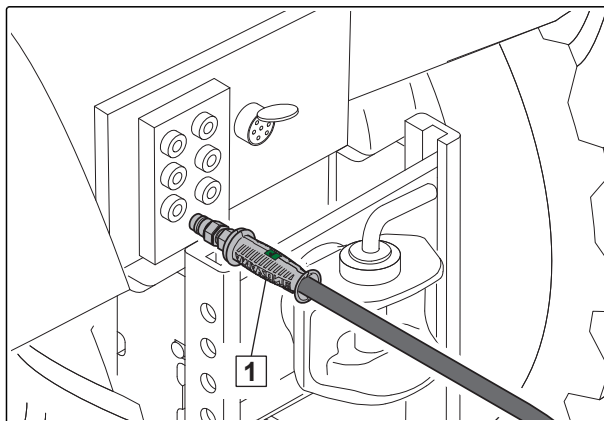


CMS-I-00003133

## 11.4 Uncoupling the implement

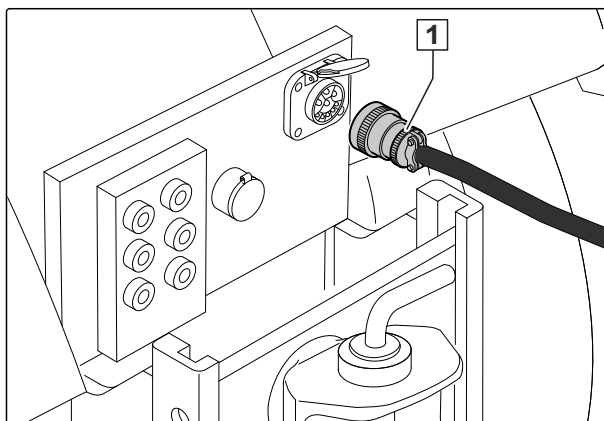
CMS-T-00007475-A.1

1. Secure the tractor and implement.
2. Put the control lever on the tractor control unit in float position.
3. Disconnect the hydraulic hose lines **1**.
4. Put the dust caps on the hydraulic sockets.



CMS-I-00001065

5. Unplug the connector **1** of the ISOBUS line.



CMS-I-00004333

# Repairing the machine

# 12

CMS-T-00003950-H.1

## 12.1 Maintaining the implement

CMS-T-00003979-H.1

### 12.1.1 Maintenance schedule

| After initial operation               |             |  |
|---------------------------------------|-------------|--|
| Checking the hydraulic hose lines     | see page 51 |  |
| Every 10 operating hours / daily      |             |  |
| Cleaning the suction guard screen     | see page 52 |  |
| Cleaning the cyclone separator        | see page 53 |  |
| Cleaning the segment distributor head | see page 53 |  |
| Every 50 operating hours / weekly     |             |  |
| Checking the hydraulic hose lines     | see page 51 |  |

### 12.1.2 Checking the hydraulic hose lines

CMS-T-00002331-D.1



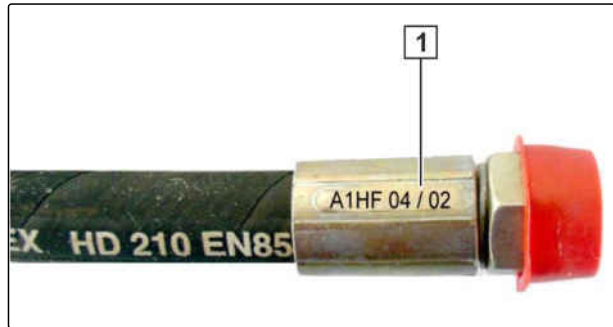
#### INTERVAL

- After initial operation
- Every 50 operating hours  
or  
weekly

1. Check the hydraulic hose lines for damage, such as chafing point, cuts, tears and deformation.
2. Check the hydraulic hose lines for leaks.

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

3. Check the manufacturing date **1**.



CMS-I-00000532

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

### 12.1.3 Cleaning the suction guard screen

CMS-T-00006210-C.1

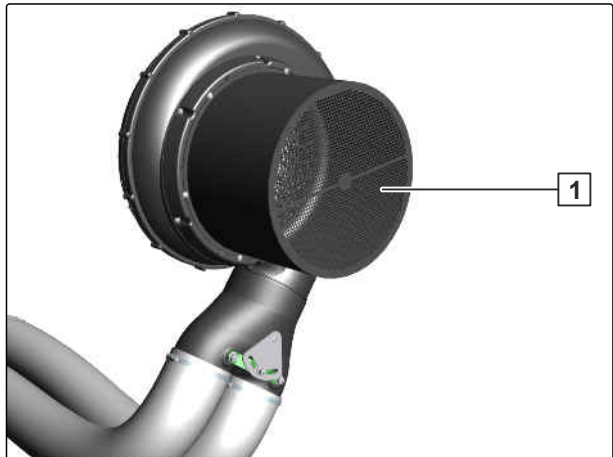


#### INTERVAL

- Every 10 operating hours  
or  
daily

The suction guard screen **1** prevents plant residues from being drawn into the fan.

1. Switch off the fan.
2. Remove impurities from the suction guard screen **1** of the fan.



CMS-I-00002970

### 12.1.4 Cleaning the cyclone separator

CMS-T-00003779-D.1

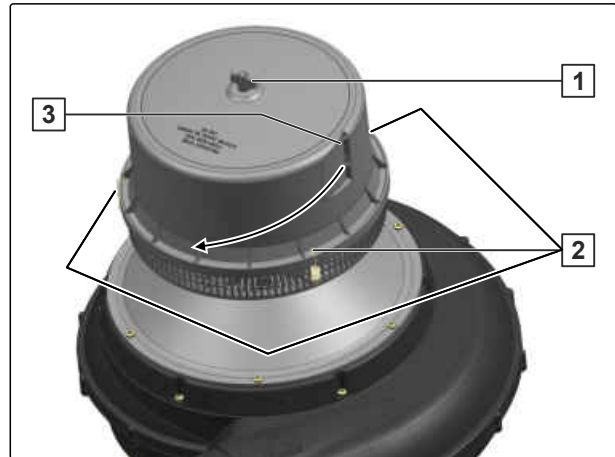


#### INTERVAL

- Every 10 operating hours  
or  
daily

For the cyclone separator to work, the separator opening **3** must be free of impurities.

1. Check the separator opening **3**.
2. *If the separator opening is clogged,* open the clips **2**.
3. Loosen the wing nut **1**.
4. Remove the cover and clean it.
5. Install the cover with the wing nut.
6. Fasten the suction cage with the clips.



CMS-I-00002765

### 12.1.5 Cleaning the segment distributor head

CMS-T-00004448-G.1



#### INTERVAL

- Every 10 operating hours  
or  
daily



#### NOTE

The segment distributor head must be kept free of dust, deposits, and foreign objects.

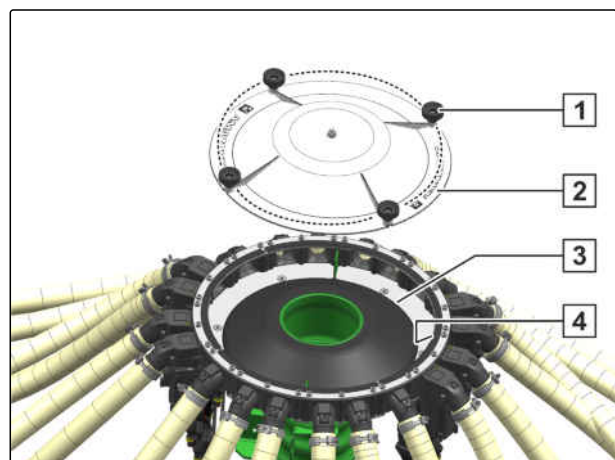
Shorten the checking intervals under very dusty conditions.



#### WARNING

##### Risk of chemical burns by dressing dust

- Before working with hazardous materials, put on the protective clothing recommended by the manufacturer.



CMS-I-00003133

1. Loosen the four knurled screws **1**.

2. Remove the cover **2**.
3. Clean the segment distributor head **3** using a paint brush, hand brush or with compressed air.
4. Clean the seed outlets and tramline segments **4** using a paint brush, hand brush or with compressed air.
5. Install the cover.
6. Tighten the four knurled screws by hand.

## 12.2 Cleaning the implement

CMS-T-00000593-F.1



### 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.
- 
- ▶ Clean the machine with a high-pressure cleaner or a hot water high-pressure cleaner.



CMS-I-00002692

# Appendix

# 13

CMS-T-00004197-B.1

## 13.1 Other applicable documents

CMS-T-00004198-B.1

- Assembly instructions MM1121
- ISOBUS software operating manual for the GreenDrill
- Operating manual of the carrying implement

# Directories

# 14

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**AMAZONE**

**AMAZONEN-WERKE**

H. DREYER SE & Co. KG

Postfach 51

49202 Hasbergen-Gaste

Germany

+49 (0) 5405 501-0

[amazone@amazone.de](mailto:amazone@amazone.de)

[www.amazone.de](http://www.amazone.de)