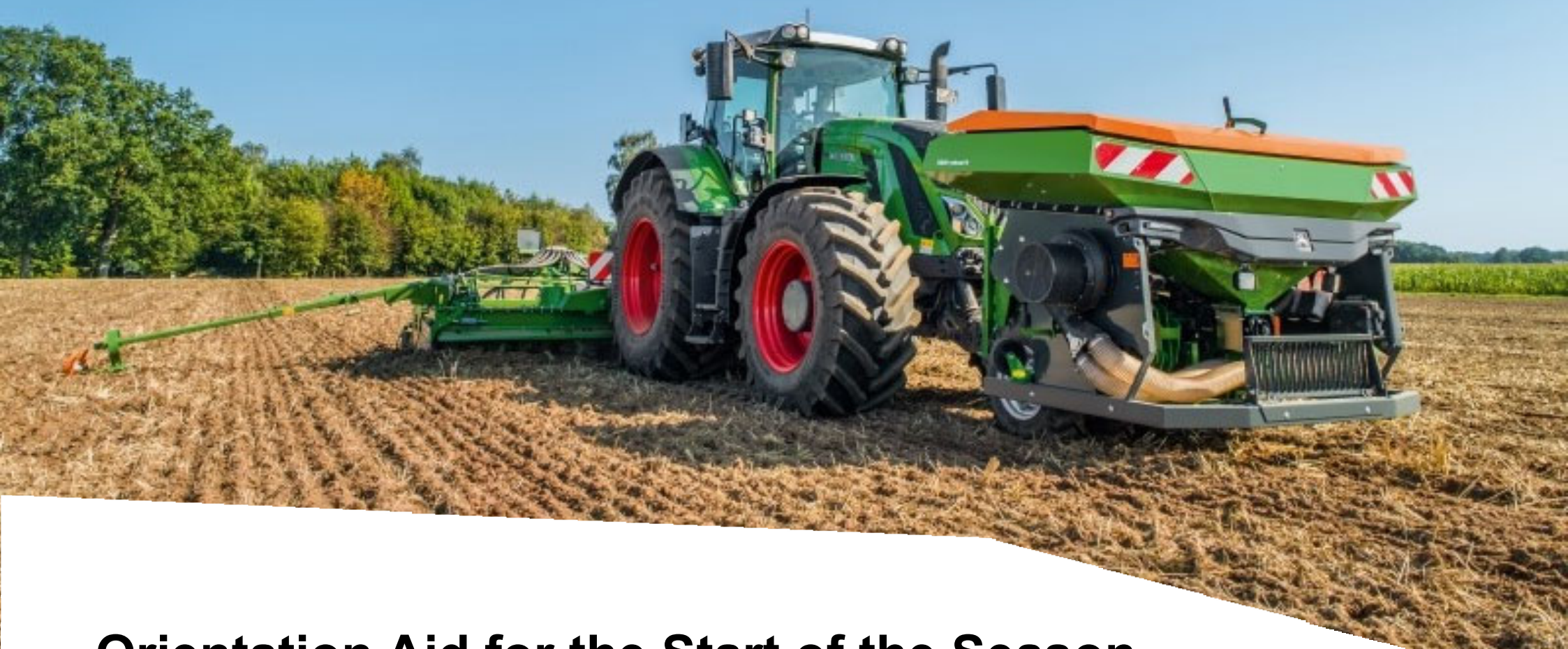




AMAZONE



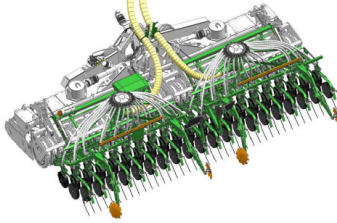








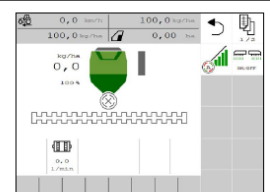

**Orientation Aid for the Start of the Season
Avant 02 + FTender**

Table of Contents

1. General information
2. Start screen of the implement software
3. Work menu of the implement software
4. Preparation for operation
5. Calibration of the metering unit
6. Machine settings
7. Software settings
8. Preparations on the implement - Task Controller

1. General instructions

- Use of this document requires that the **operating manuals** for the implement and the software have been **read** and **understood**. The corresponding documents are shown on the right side.
- For this reason, it is **necessary** to take additional information from the operating manual. The **operating manual** must **always be available** when performing the orientation aid for the start of the season with the Avant02.
- The **Orientation Aid for the Start of the Season - Avant02** document serves as a guideline for the user to check the implement for the new season and to put it back into operation. This document is based on **software version NW257-C** and is also only valid for this version.

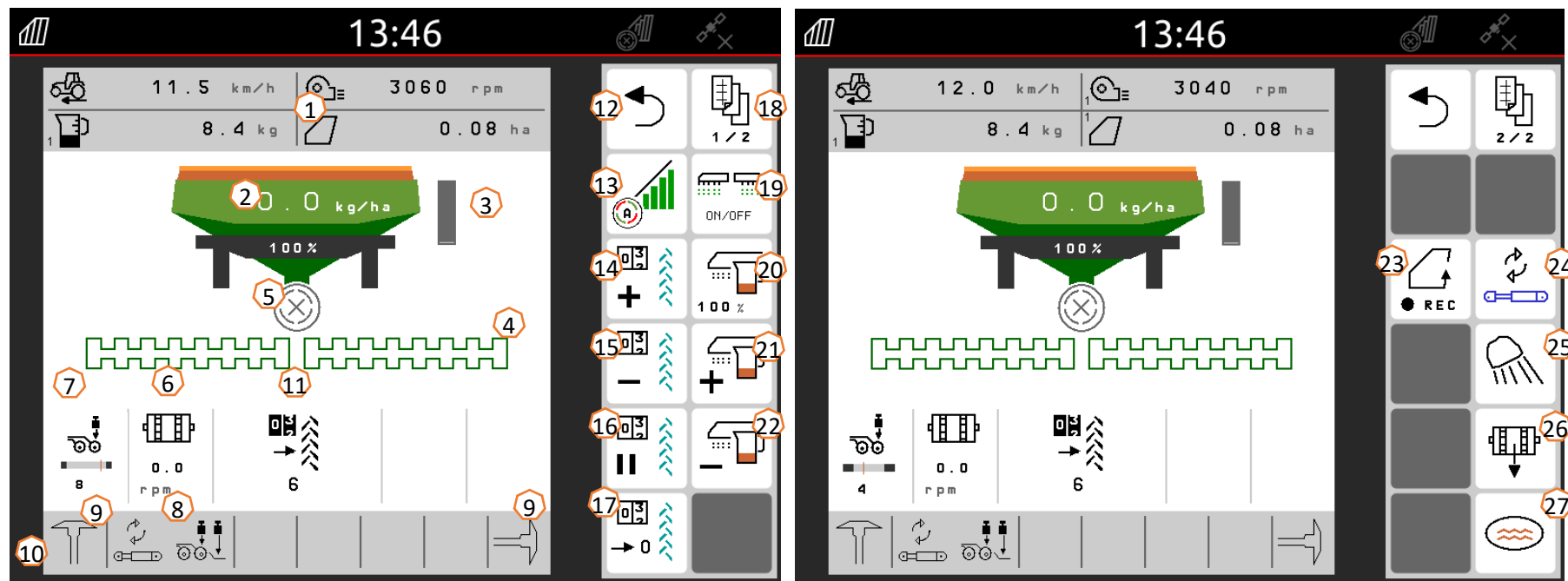
<p>Operating manual M06545-EN-0 A.1 20.07.2020</p>  <p>seeding rail TSE 6000-2</p> <p>CE  Original operating manual </p>	<p>Operating manual M06492-EN-0 E.1 24.11.2020</p>  <p>Front hopper FTender 1600 FTender 2200 FTender 2200-C</p> <p>CE  Original operating manual </p>
<p>Operating manual M06750-EN-0 B.1 20.07.2020</p>  <p>Rotary cultivator KG 6002-2</p> <p>CE  Original operating manual </p>	<p>Operating manual AMAZONE ISOBUS software GreenDrill FTender</p>  <p>M06757 BA00218.4 02.21 Printed in Germany</p> <p>Please read this operating manual before initial operation. Keep it in a safe place for future use!</p> <p>en </p>

2. Start screen of the implement software

- The Main menu is divided into the Field menu (1) and the Settings menu (2).
- The menus can be switched by clicking on one of the marked buttons.
- From the Main menu, it is possible to switch to the submenus Work, Calibration, Filling, Emptying, and Documentation ...
- From the Settings menu, it is possible to reach the submenus Implement, Profile, Info, and Products.



3. Work menu of the implement software



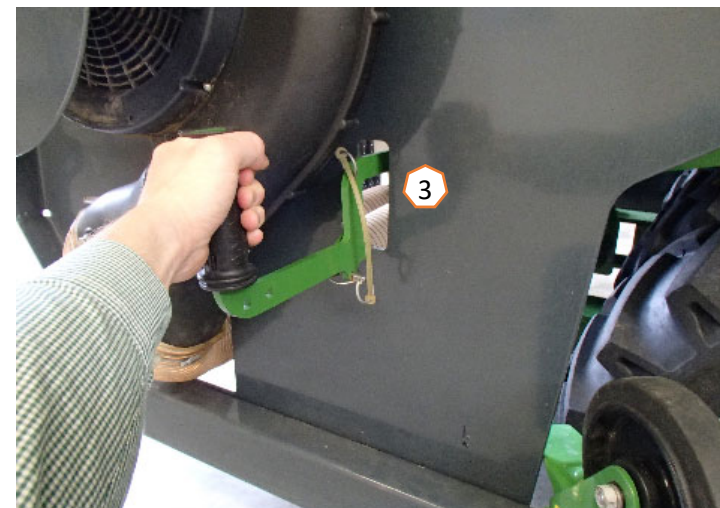
- | | |
|---|---|
| (1) Info bar (freely configurable) | (15) Tramline counter -1 |
| (2) Seed quantity | (16) Pause the tramline counter |
| (3) Fill level / low level alarm | (17) Tramline counter back to 1 |
| (4) Seeding rail (white=off; green=on) | (18) Scroll |
| (5) Section Control status | (19) Metering unit on/off |
| (6) Current metering unit speed | (20) Seed rate at 100% |
| (7) Coulter pressure display (yellow=coulters lifted) | (21) Increase the seed rate |
| (8) Pre-selected Comfort hydraulic system function | (22) Reduce the seed rate |
| (9) Track marker position | (23) GPS recording for creating a field boundary |
| (10) Status bar | (24) Change the Comfort hydraulic system function |
| (11) Tramline counter | (25) Work lights on/off |
| (12) Exit the menu | (26) Pre-metering |
| (13) Section Control automatic | (27) Water hole button (implement remains on when lifted) |
| (14) Tramline counter +1 | |

4. Preparation for operation

Tractor prerequisite - FTender

FTender 1600	FTender 2200
Min. 80 HP	Min. 100 HP

- **Mounting category:** 2/3N
- **Tractor pump capacity:** min. 50 l/min at 150 bar
- **Connections:** depending on the implement equipment, the following connections are required:
1x SA: with adjustable flow rate,
pressureless return flow (max. 5 bar)
- **Coupling the implement:** pick up the implement with the lower links and couple the top link, secure the implement. Peg up the guide wheels (1), slide up the parking supports (2). Establish all of the connections: electronics, lighting, hydraulic system, conveyor section. Align the implement horizontally on the field. Pay attention to the ballasting and dimensions of the implement combination. Depending on the road traffic regulations, use front cameras or a banksman for road travel.
- **Move the implement into working position:** after driving on the road, the implement must be put into working position. To do so, lower the implement and unlock the linkage of the packer tyres by unlocking and pulling the transport lock (3) (not necessary if the FTender is not equipped with T-Pack). The lift the implement again and lock it in working position.

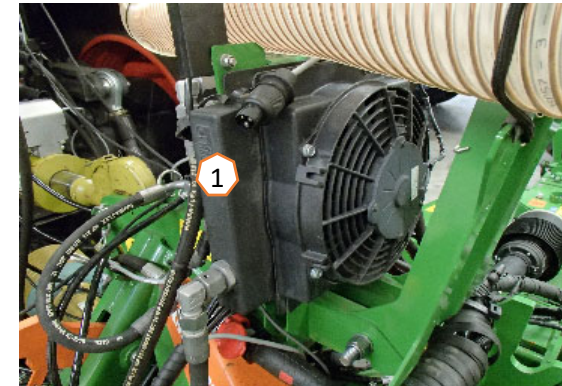
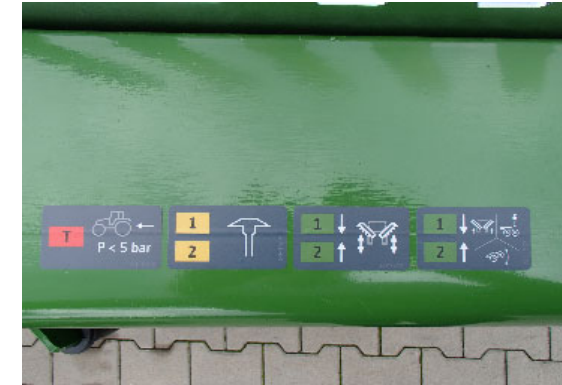


4. Preparation for operation

Tractor prerequisite - Avant

TYPE	Avant 3000	Avant 6000-2
Tractor power	160 HP	210 HP
Mounting category	3	3/4
Tractor pump output	15 l at 150 bar	30 l at 180 bar

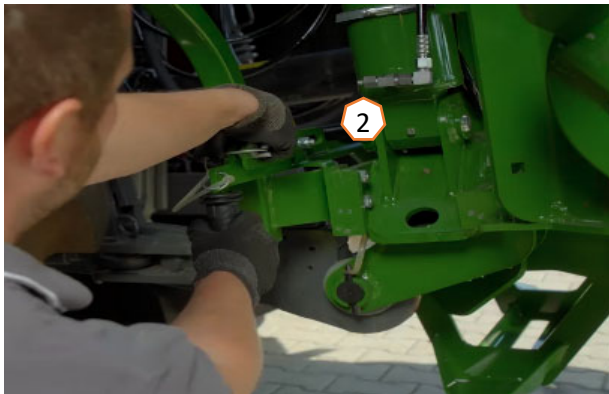
- **Tractor power:** 430 HP
- **Mounting category:** 3
- **Tractor pump capacity:** 30 l at 180 bar
- **Connections:** depending on the implement equipment, the following connections are required:
 - 4x DA: hydraulic top link / Comfort hydraulic system / track marker / KG depth
 - 1x free return flow
- **Coupling the implement:** pick up the implement with the lower links and couple the top link, secure the implement and establish all of the connections: electronics, lighting, hydraulic system, PTO shaft, conveyor section. Raise the implement. With the transport running gear option, use the top link with the float position function. Moreover, the power supply for the electric drive of the gear oil cooler (1) must be connected.



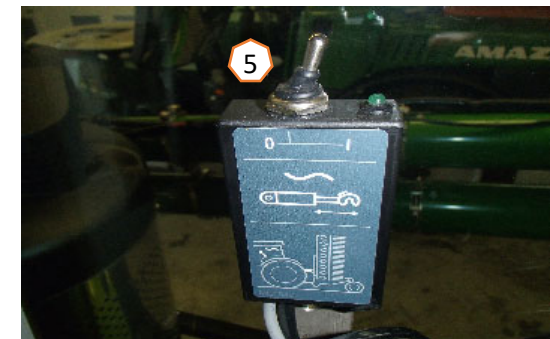
4. Preparation for operation

Uncouple the transport running gear: lift the implement until the transport wheels (1) are free. Release the running gear pins by unlocking and pulling the lever (2). Then lower the implement until the running gear is freely standing on the ground (3). Slowly drive forwards and lift the implement again (4). When coupling, make sure that the hoses are not damaged.

Coupling is accomplished in the reverse sequence.



Note: the transport running gear option includes a hydraulic top link with electric float position. It must be activated for road travel (5) and the corresponding tractor control unit must be switched to the float position.

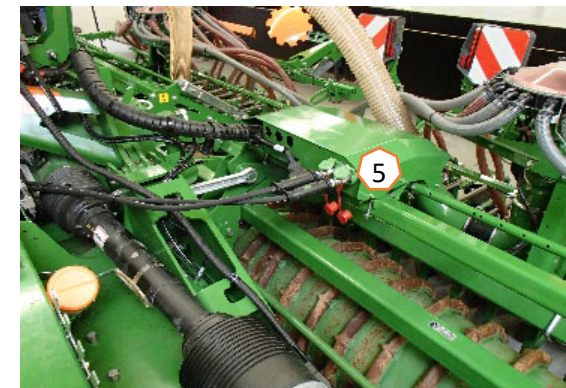
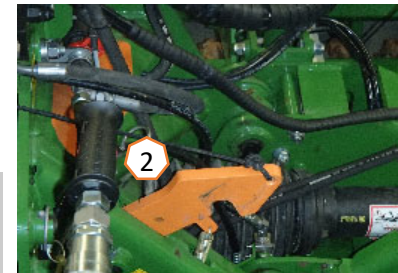
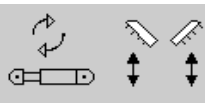
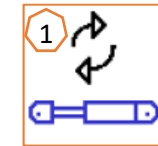


4. Preparation for operation

- Moving the implement into working position:** pre-select the folding hydraulic function on the terminal (1), pull the unlocking rope (2) and actuate the green tractor control unit. Then align the implement horizontally using the top link. To do so, the surface of the gearbox sump (3) can be used as a reference. With the transport running gear option, the float position should be deactivated on the hydraulic top link for safety reasons. The warning signs with the lighting for road travel (4) must be folded up, otherwise they would be damaged during operation.

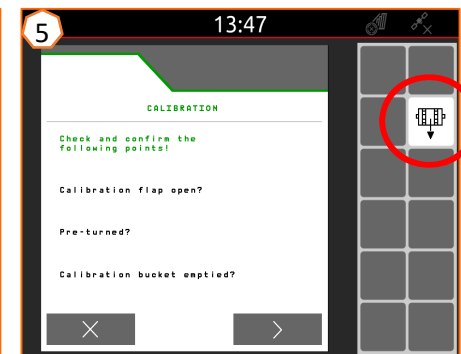
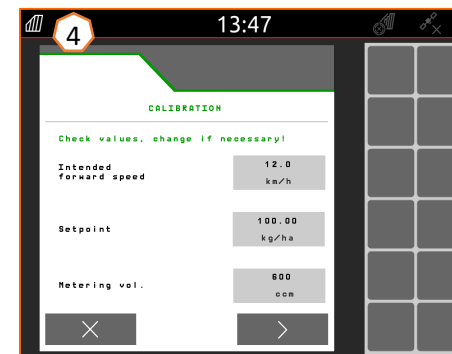
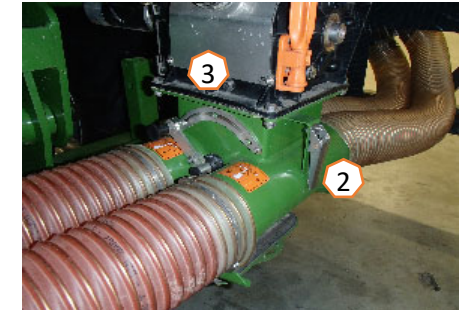
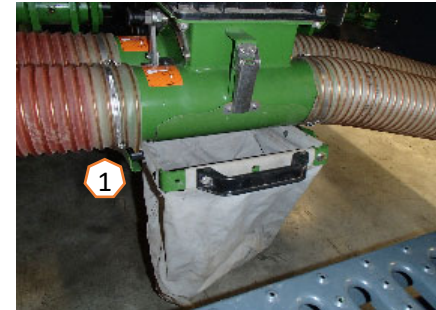


- The implement can also be folded **without a terminal** (solo operation). To do so, the hydraulic plug (5) must be uncoupled from the Comfort control and directly connected to the tractor control unit.



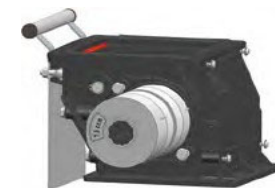
5. Calibration of the metering unit


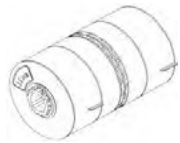

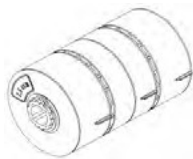


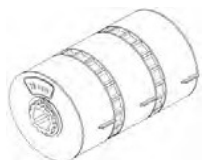





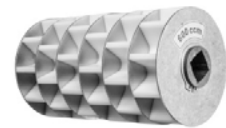

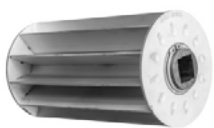
- **General:** insert the suitable metering core (see p.11). Slide the calibration bag under the metering unit (1). Open the calibration flap (2). With a double sluice, set the one-sided switching (3) to the front sluice. **Please note:** after the calibration, set the one-sided switching back to the centre position!
- **Electrical drive:** **Field menu > Calibration:** check the values and change if necessary (4), select the desired calibration method, pre-meter (5). Empty the calibration bag and slide it back underneath. Perform the calibration using the calibration button (6), enter the weighed quantity on the terminal.
- For fine seeds, the low level sensor (7) can also be inserted in the lower position (8).



5.1 Metering rollers

Info Metering System and Tramline Systems 2019



Metering rollers							
Order no.	224310	224829	219956	221869	976731		
[cm ³]	3.75	7.5	7.5	7.5	7.5		
							
Order no.	212295	221870	961457	207504	967777	961456	207502
[cm ³]	20	20	20	40	120	210	350
							
Order no.	961454	970564	212153				
[cm ³]	600	660	880				
							

Service Info number: ID 23475

5.1 Metering rollers

Info Metering System and Tramline Systems 2019

	Metering rollers									
Seed	3.75 cm ³	7.5 cm ³	20 cm ³	40 cm ³	120 cm ³	210 cm ³	350 cm ³	600 cm ³	660 cm ³	880 cm ³
Beans									x	x
Dinkel								x	x	x
Peas									x	x
Flax (dressed)			x		x	x				
Barley						x		x		
Grass seed						x		x		
Oats								x		
Millet					x	x				
Lupins					x	x				
Lucerne			x		x	x				
Maize					x					
Poppy	x	x								
Oilseed (moist dressed)			x							
Fodder radish			x		x	x				
Phacelia			x		x					
Rapeseed	x	x	x	x						
Rye						x		x		
Red clover			x		x					
Mustard			x		x	x				
Soya								x	x	x
Sunflowers					x	x				
Turnips			x							
Wheat						x		x		
Vetches						x				
Buckwheat						x		x		
Caraway			x							
Rice							x			
Fertiliser							x		x	x

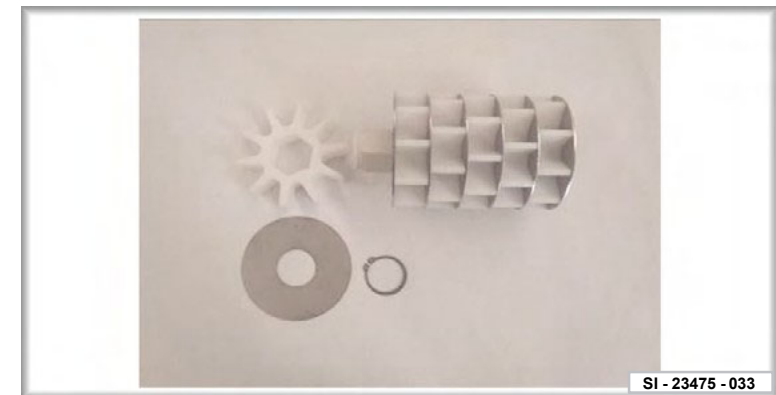
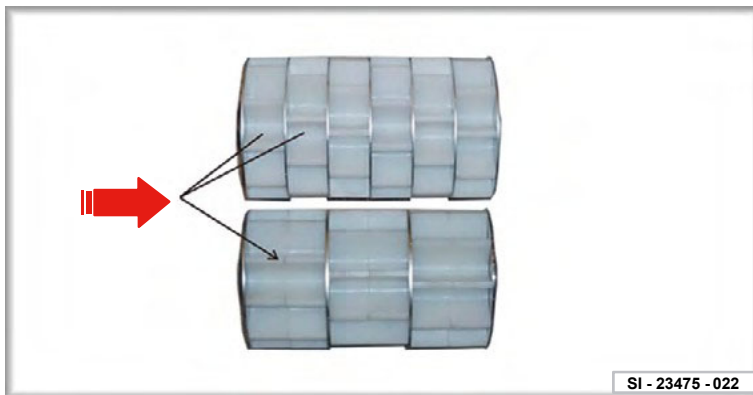
5.1 Metering rollers

Info Metering System and Tramline Systems 2019

Conversion of metering cores

For seeding particularly large seeds, e.g. large beans, the chambers of the metering roller can be enlarged by repositioning the wheels and the intermediate plates.

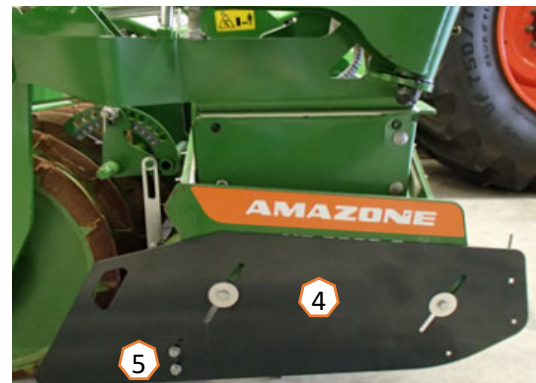
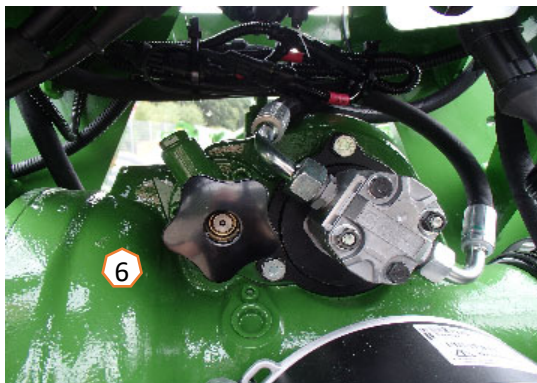
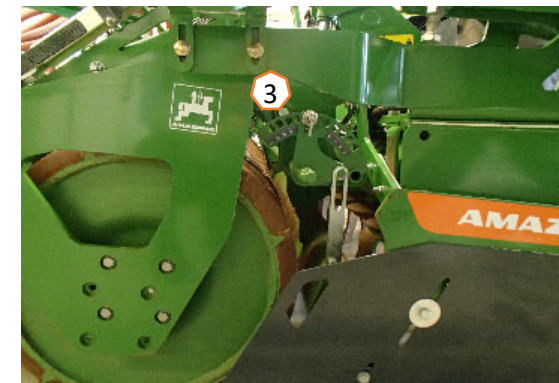
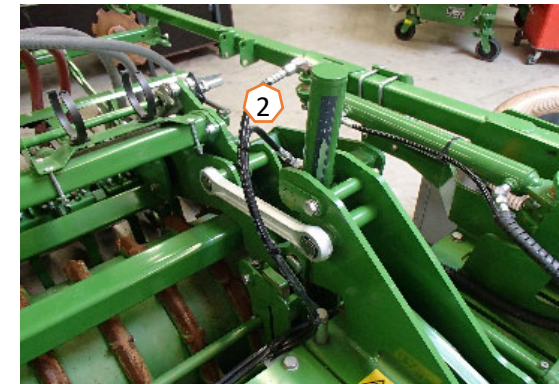
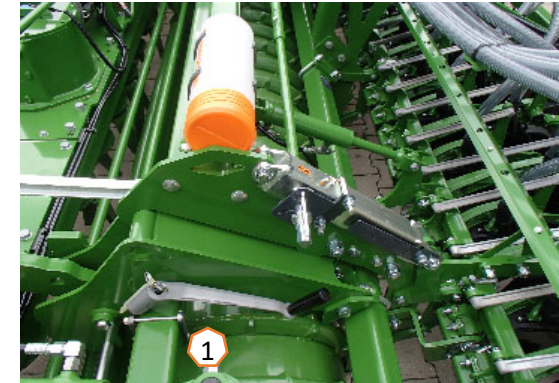
Metering wheel without chambers (order no. 969904). The volume of some metering rollers can be modified by repositioning/removing the existing wheels and inserting metering wheels without chambers.



Service Info number: ID 23475

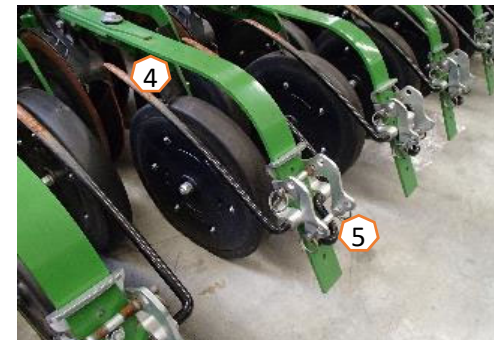
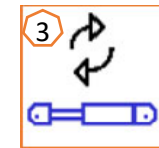
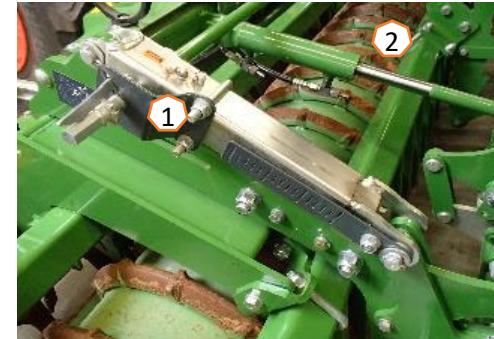
6. Implement settings

- **Multitool:** the Multitool (1) can be used as a setting tool for various settings on the implement.
- **Lower link / soil tillage working depth:** set the desired working depth (2) on the packer roller using the blue control unit or the positioning pin. Then adjust the lifting unit height and top link on the tractor in the field so that the implement is guided horizontally to the direction of travel during operation.
- **Levelling board:** the height of the levelling board can be adjusted to the soil conditions with the ratchet (3). (Multitool)
- **Side panel:** the depth of the side panel (4) can be adjusted in the elongated slots. The guide plate can be adjusted with the bolts (5). (Multitool)
- **Track marker:** when using track markers, their width and intensity must be adjusted to the working width and soil conditions. (Multitool)
- **Tool carrier speed:** the lever (6) can be used to select between 2 gear ratios in the gearbox.



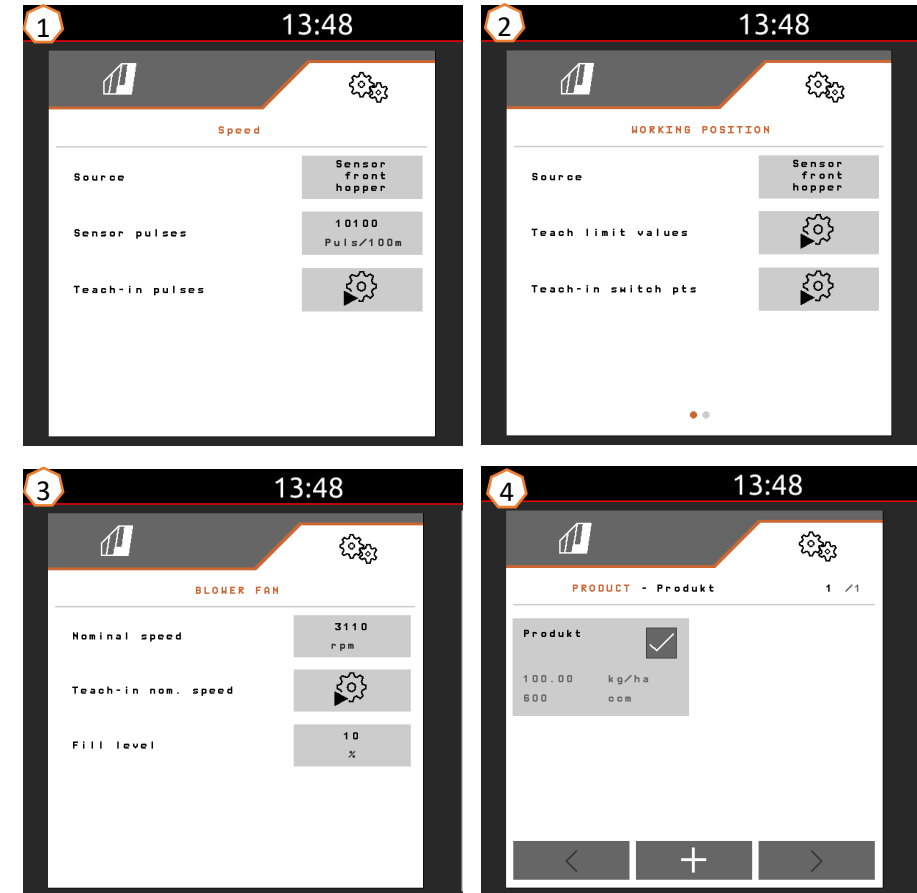
6. Implement settings

- **Tramline system:** the tramline system must be adjusted to the subsequent cultivating implement. (Page 14)
- **Placement depth:** the placement depth can be adjusted using the crank (1) on the left and right. (Multitool)
- **Coulter pressure:** set the desired coulter pressure using the coulter pressure cylinder (2). To do so, select the hydraulic function using the softkey (3). Use less coulter pressure on light soils, and more on heavy soils. More pressure can be set in the tractor track if necessary. This setting also affects the placement depth.
- **Harrow:** the harrows (4) can be moved into parking position as shown using the pin (5) or moved to working position in 2 stages.
- **Fan speed:** set the oil quantity on the tractor control unit (take account of the hydraulic oil temperature), the fan speed depending on the seed type according to the table. In doing so, the pressure can be read on the pressure gauge on the conveyor section. Fine seed approx. 40 mbar; wheat/rye approx. 50 mbar; fertiliser approx. 55 mbar. The sticker (6) shows the basic settings for different types of seed.
- **Max. speed 4500 rpm**



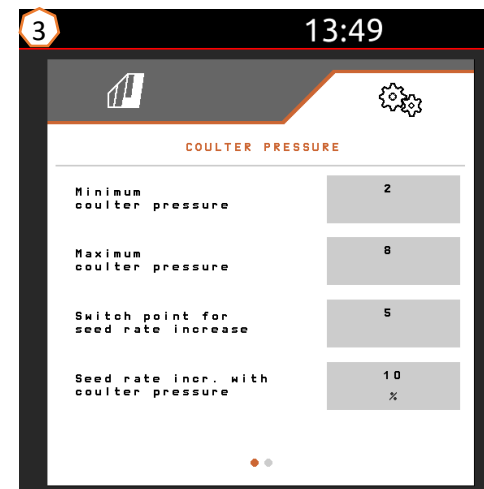
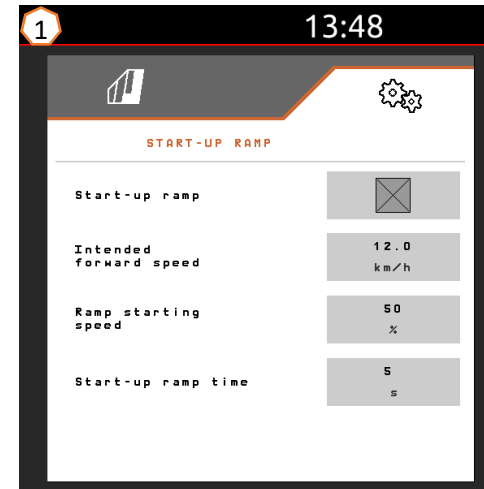
7. Software settings

- **(1) Speed source/teach-in pulses per 100 m:** **Setting menu > Implement > Speed > Teach-in pulses / source.** Here, the source for the speed can be selected or the pulses per 100 m can be calibrated. With an electric drive, the number of pulses is about 10000.
- **(2) Source/teach-in working position:** **Setting menu > Implement > Working position > Teach-in switch points / source.** Here, the source for the "working position" signal can be selected or the switch points for "metering on" and "metering off" can be taught-in.
- **(3) Fan speed:** **Setting menu > Implement > Fan.** Here, settings can be made for the fan monitoring.
- **(4) Seed:** **Setting menu > Products > Product.** Here, the spread rate, the product name as well as the product settings can be entered.



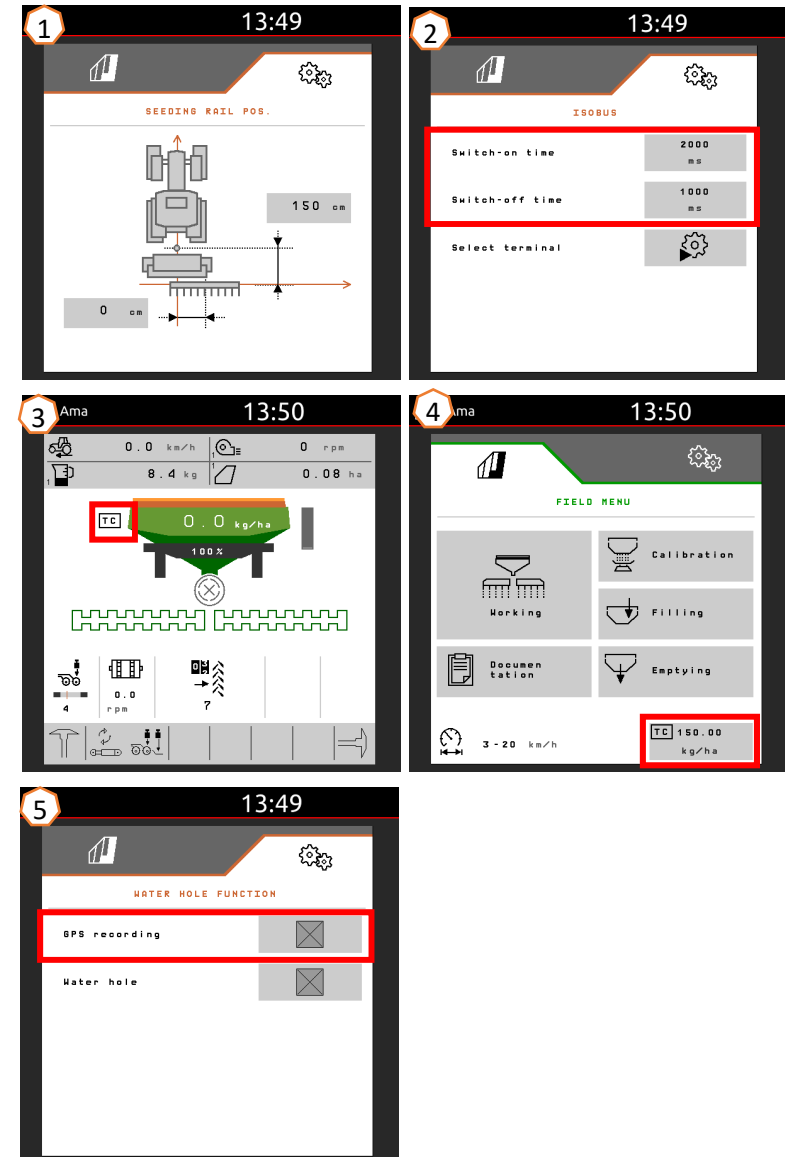
7. Software settings

- (1) **Start-up ramp:** Setting menu > Implement > Start-up ramp. Here, the speed settings for the start-up ramp when starting to meter can be entered.
- (2) **Tramline:** Setting menu > Implement > Tramline. Here, the tramline settings can be entered according to the subsequent cultivating implement.
- (3) **Coulter pressure:** Setting menu > Implement > Coulter pressure. Here, settings for the coulter pressure as well as the seed rate increase can be entered.



8. Preparations on the implement - Task Controller

- **Terminal:** the functions of the Task Controllers are controlled through the terminal. The terminal must be prepared accordingly. You can find more information in the operating manual for the respective terminal.
- **(1) Geometry:** Setting menu > Implement > Geometry Here, the implement geometry can be checked and adjusted. The implement logs onto the Task Controller with this geometry.
- **(2) Switch-on/-off time:** Setting menu > Profile > ISOBUS These times define the delay between the moment when the terminal issues the command to switch the part-width sections on or off and when the implement really executed this command. Incorrect settings can cause overlaps or gaps.
- **(3,4) Application maps / jobs:** the "TC" icon in the Work menu and Product menu indicates that the implement is receiving the target spread rates from the Task Controller (application map or job).
- **(5) GPS recording:** Setting menu > Implement > Additional functions With the GPS recording, the spreading can be simulated for the connected control terminal without actually spreading seed. The control terminal marks the driven area as the worked area. The worked area can be used to create a field boundary.



SmartLearning app

The AMAZONE SmartLearning app offers video training courses for the operation of Amazone implements. The video training courses can be downloaded onto your smartphone if necessary, and are therefore available offline. Simply select the desired implement for which you want to watch a video training course.



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