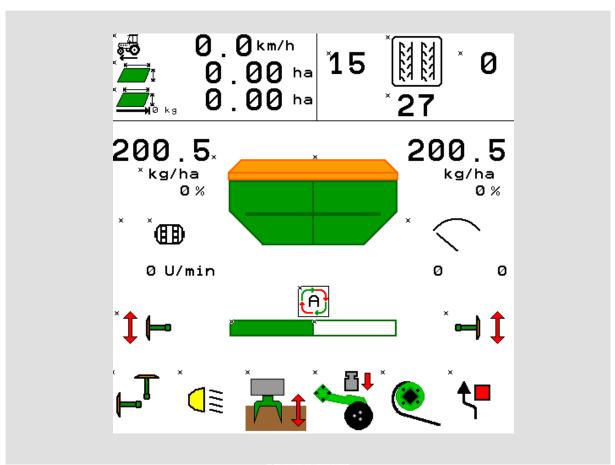
Operating Manual

AMAZONE

ISOBUS software for seed drills



MG5265 BAG0143.18 12.24 Printed in Germany



Please read this operating manual before commissioning. Keep it in a safe place for future use!

en





Reading the instruction

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

Leipzig-Plagwitz 1872. Hug. Lark!



Manufacturer's address

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Spare part orders

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

Please send orders to your AMAZONE dealer.

Formalities of the operating manual

Document number: MG5265 Compilation date: 12.24

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Foreword

Dear Customer,

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

On receiving the implement, check to see if it has been damaged during transport or if parts are missing. Using the delivery note, check that the implement has been delivered in full, including any special equipment ordered. Damage can only be rectified if problems are signalled immediately.

Before commissioning, read and understand this operating manual, and particularly the safety information. Only after careful reading will you be able to benefit from the full scope of your newly purchased implement.

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

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

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

User evaluation

Dear Reader

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

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1 User information

The User Information section provides information on use of the operating manual.

1.1 Purpose of the document

This operating manual

- describes the operation and maintenance of the implement.
- provides important information on safe and efficient handling of the implement.
- is a component part of the implement and should always be kept with the implement or the towing vehicle.
- must be kept in a safe place for future use.

1.2 Locations in the operating manual

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

1.3 Diagrams

Instructions and responses

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

Example:

- 1. Instruction 1
- → Implement response to instruction 1
- 2. Instruction 2

Lists

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

Example:

- Point 1
- Point 2

Item numbers in diagrams

Numbers in round brackets refer to the item numbers in the diagrams. Example:

(1) Position 1



2 General Safety Instructions

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



The operating manual

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

2.1 Representation of safety symbols

Safety instructions are indicated by the triangular safety symbol and the highlighted signal word. The signal word (danger, warning, caution) describes the severity of the risk, and carries the following meaning:



DANGER

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

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



WARNING

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

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



CAUTION

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



IMPORTANT

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

Non-compliance with these instructions can cause faults on the implement or disturbance to the environment.



NOTE

Indicates handling tips and particularly useful information.

These instructions will help you to use all the functions of your implement in the best way possible.



3 Product description implement control software

The ISOBUS software and an ISOBUS terminal make it easy to control, operate and monitor the AMAZONE implements.

The ISOBUS software works with the following AMAZONE seed drills:

- Cirrus 03
- Cayena
- Condor
- Citan
- XTender
- AD-P
- Primera DMC

The Main menu is shown after switching on the ISOBUS terminal when the implement computer is connected.

Settings

The settings can be adjusted through the sub-menus in the Main menu.

Use

The ISOBUS software controls the application rate according to forward speed.

The Work menu shows all of the work data during operation and, depending on the equipment, the implement can be operated through the Work menu.

3.1 Software version

This operating manual is valid from software version:

Base computer

NW262-F



A message is displayed if a component (computer / control unit) does not have the current software.

It is still possible to work with the implement temporarily.

→ Perform an update of the respective software in the near future.

3.2 Menu navigation layout



Х

Function fields with white background

→ For executing functions



Function fields with coloured background

→ For menu navigation



←

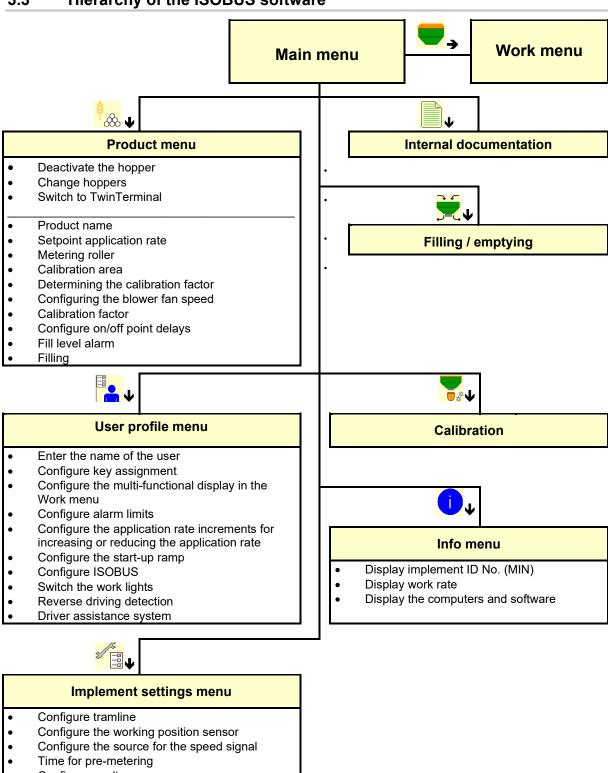
Back to the previous menu



Scrolling in the menu



3.3 Hierarchy of the ISOBUS software



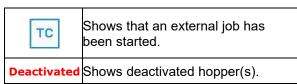
- Configure coulter pressure
- Fill level alarm
- Water hole Recording mode
- Configure the geometry
- Configure antenna position AutoPoint
- Setup

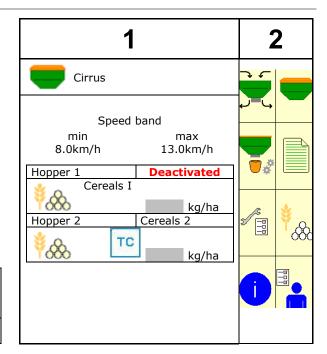


4 Main menu

4.1 Display of the Main menu

- (1) Display and settings
- (2) Function fields for sub-menus
- Adjusted implement
- Minimum and maximum working speed
- Application rate for
 - o Hopper 1
 - o Other hoppers (optional)
- → Changes are also possible here. Values will be adopted in the product menu



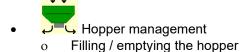


4.2 Sub-menus of the Main menu

Menus for working with the implement



o Display and controls during operation.



Determining the calibration factor (also in the Products menu)



Menus for settings, information about the implement and seed

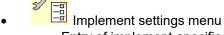


o Settings for the seed



User profile menu

 Each user can save a personal profile with settings for the terminal and the implement.



- o Entry of implement-specific or individual data.
- o Change the setup of the implement (password required)
- Documentation menu (as a simple alternative to the Task Controller)
 - o Saving of areas, times, quantity.
 - The calculated data can be stored for up to 20 documented jobs.



Info menu

o Software version and total ground coverage



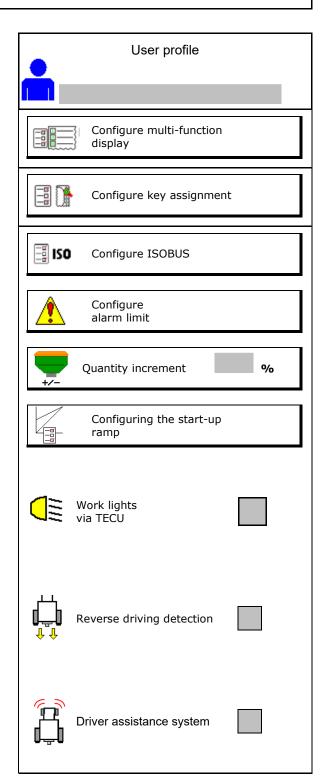
5 User profile





Select User profile in the main menu!

- Enter the name of the user
- Configure the multi-function display in the Work menu (see page 15)
- Configure key assignment (see page 16)
- Configure ISOBUS (see page 17)
- Configure alarm limits (see page 15)
- Enter the application rate increments for increasing or reducing the application rate
- Configure the start-up ramp (see page 19)
- Switching of the work lights can be controlled manually or by the TECU.
 - The TECU switches the work lights on as soon as the work lights are switched on in the tractor.
 - o ☐ Switch the work lights manually.
- Reverse driving detection
 - (yes) When driving in reverse, the metering unit and the advancing of the tramline is interrupted (ISOBUS signal must be present).
 - o □ (no)
- Driver assistance system
 - ☑ (yes) Show notification when the forward speed was strongly changed on the headland, so that a seeding error is produced.
 - o ☐ (no) No notification







User: change, new, delete

Change user:

- 1. Mark user.
- 2. Confirm marking.

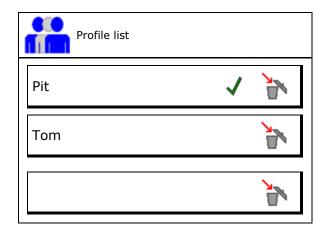
Create new user:



Create new user.

- 2. Mark user.
- 3. Confirm marking.
- 4. Enter name.

The terminal must be restarted after changing users



Delete user:



symbol and confirm.



When using an AUX-N multi-function stick, the freely selected key assignment of the multi-function stick are saved with the respective user.

Each user profile needs a key assignment.

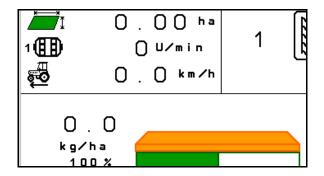
Perform the key assignment on the VT.

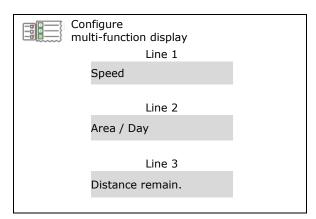


5.1 Configure multi-function display

Different data sets can be shown in the three data lines in the Work menu.

- (1) Current speed
- (2) Worked area per day
- (3) Quantity per day
- (4) Remaining area
- (5) Distance remaining
- (6) Distance counter
- (7) Speed of metering unit 1
- (8) Speed of metering unit 2
- (9) Speed of metering unit 3
- (10) Speed of metering unit 4
- (11) Setpoint for metering unit 1
- (12) Setpoint for metering unit 2
- (13) Setpoint for metering unit 3
- (14) Setpoint for metering unit 4
- (15) Pressure in hopper 1
- (16) Pressure in hopper 2
- (17) Distance remaining
- (18) Blower fan actual speed 1
- (19) Blower fan actual speed 4
- (20) Residual quantity in hopper 1
- (21) Residual quantity in hopper 2
- (22) Residual quantity in hopper 3
- (23) Residual quantity in hopper 4







5.2 Configure key assignment

Here the function fields of the work menu can be freely assigned.

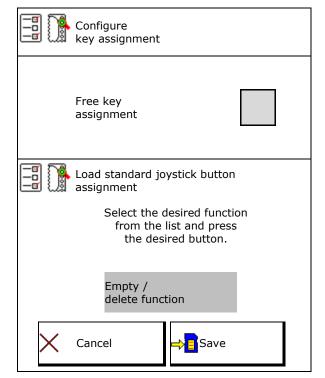
- Free key assignment

 - o ☐ Standard assignment of the keys

s

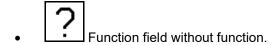
- Load standard joystick button assignment
- Freely assign the buttons

→ Call up list of the function

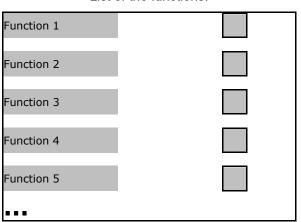


Perform key assignment:

- 1. Call up list of the functions.
- 2. Select function.
- 3. If applicable, select the screen where the function should be saved in the work menu.
- 4. Press the key / function field in order to place the function to the key / function firled.
- 5. In this manner, all functions can be assigned any way you like.
- 6. Save the settings or



List of the functions:





5.3 Configure ISOBUS

- Select the terminal (see page 17)
- Documentation
 - TaskController, task management active
 - → Implement computers communicate with the Task Controller of the terminal
 - o implement-internal documentation

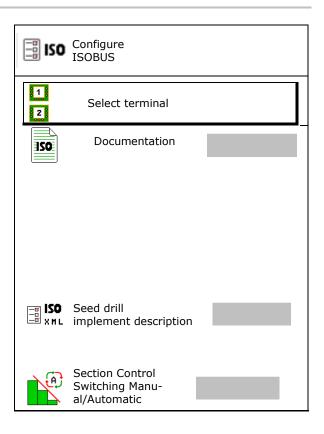
Seed drill implement description

- Seed drill implement description
 - o Multi bin (multiple hoppers)
 - o Multi boom (multiple seeding rails)
- Switching Section Control between manual / automatic
 - In the GPS menu

Section Control is switched in the GPS menu.

o In the work menu (recommended setting)

Section Control is switched in the work menu of the implement software.



5.3.1 Selecting the terminal

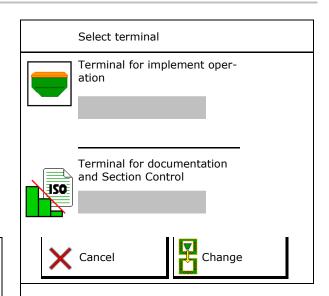
If several terminals are connected to the ISOBUS:

- Select the terminal for implement operation from the list of terminals.
 - o 01 Amazone
 - o 02 Third-party supplier
- Select the terminal for documentation from the list of terminals.
 - o 01 Amazone
 - o 02 Third-party supplier



Logging onto the UT terminal can take up to 40 seconds.

If the specified terminal is not found after this time, the implement logs onto another terminal.



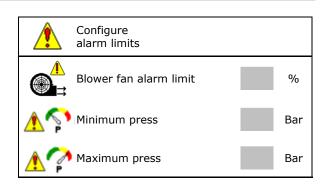


5.4 Configure alarm limits

- Enter the alarm limit for the blower fan speed in %.
- → A signal sounds when exceeding the alarm limit during operation.

Default value: 15%

- Enter the minimum air pressure in the hopper.
- Enter the maximum air pressure in the hopper.
- → A warning message appears when outside the entered pressure range.
- → Pressurised hopper monitoring must be active.



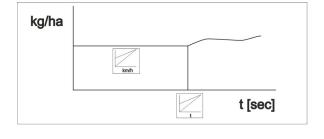


5.5 Configuring the start-up ramp

The start-up ramp prevents under metering when starting up.

When beginning work, the metering is applied according to the simulated start-up speed until the specified time expires. After that, the speed-dependent rate control is regulated.

Once the speed entered has been reached or exceeds the simulated speed, the quantity regulation starts.



Intended speed, working speed in km/h.

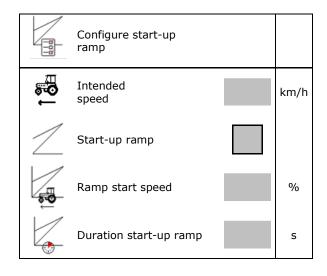
Default value: 12 km/h

- Start-up ramp on /off
 - o **☑ on**
 - o □ off
- Ramp start speed as a %-value of the intended speed at which the metering starts.

Default value: 50%

• Time that passes until the simulated speed is actually reached in seconds.

Default value: 5 s





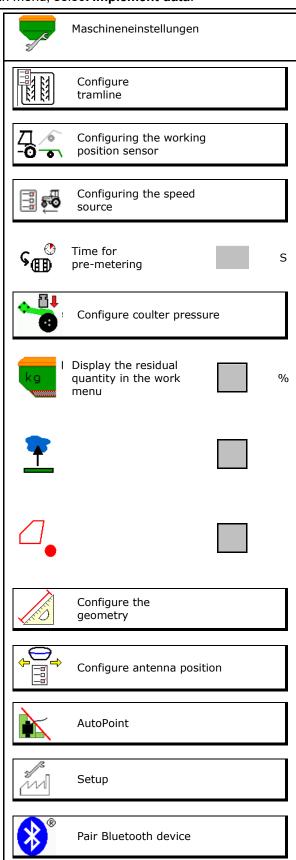
6 Enter implement data





In the main menu, select Implement data!

- Configure the tramline (see page 21)
- Configure the working position sensor (see page 28)
- Configure source for the speed signal (see page 29)
- Time for pre-metering
- → Default value: 3 s
- Configure coulter pressure (see page 54)
- Display the residual quantity in the work menu
 - o ☑ on
 - o □ off
- On / off selection for water hole function in the work menu
 - o ☑ on
 - o □ off
- Recording mode for recording the field boundary on / off
 - o ☑ on (Function field for recording shown in the work menu)
 - o □ off
- Configure the geometry (see page 31)
- Configure the antenna position (see page 36)
- Configure AutoPoint (see page 21)
- Call up the setup menu (only for customer service)
- Pairing the Bluetooth device, see page 38



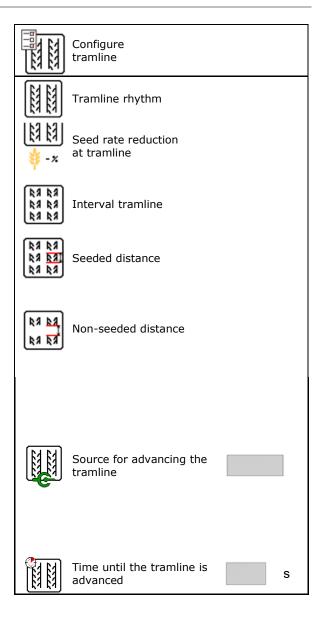


6.1 Configuring the tramline

- Enter the tramline rhythm see page 22
- Enter the seed rate reduction for creating tramlines
- Interval tramline
 - o ☑ (yes)
 - o □ (no)
- For interval tramline: Enter the length of the seeded distance
- For interval tramline: Enter the length of the non-seeded distance
- The tramlines are advanced by means of the:
 - Working positiono
 - o Track marker

Switch the tramlines automatically (see page 67).

- o Terminal CCI
- o ISOBUS
- Enter time until tramline is advanced

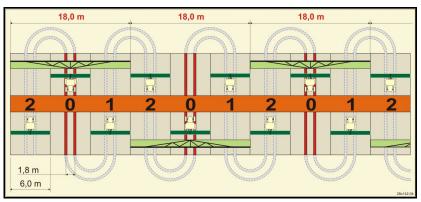




6.1.1 Tramline rhythm

Example of simple tramline control, standard tramline

Tramline counter:





Special tramline rhythms:

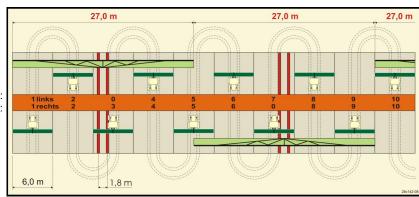
- 0 Permanent tramline
- 1 Alternating tramline
- 15 No tramline

										S	imp	le - 7	Γram	line	con	trol								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	20	21	22	23	26	32	35
	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0
	1	0	1	1	1	1	1	1	1	2	0	1	1	1		1	1	1	0	0	0	1	0	1
		1	2	2	2	2	2	2	2	3	3	2	2	2		2	2	2	1	1	1	2	1	2
		2		3	3	3	3	3	3	0	4	3	3	3		3	3	3	2	2	2	3	2	3
					4	4	4	4	4	5	5	4	4	4	<u>S</u>	4	4	4	3	3	3	4	3	4
_						5	5	5	5	6	6	5	5	5	channels	5	5	5	4	4	4	5	4	5
counter							6	6	6	0	7	6	6	6		6	6	6		5	5	6	5	6
ا ق								7	7	8	8	7	7	7	aate	7	7	7		6	6	7	6	7
									8	9	0	8	8	8	t cre	8	8	8			7	8	7	8
Tramline										10	10	9	9	9	does not create	9	9	9			8	9	8	9
la l												10	10	10	doe	10	10					10	9	10
-												11	11	11	15	11	11						10	11
													12	12	Circuit	12	12							12
														13	Ċ	13	13							13
																14	14							14
																15	15							
																	16							



Example of double tramline control, requires 2 seed distributors

Tramline counter, left side: Tramline counter, right side:



									Do	uble	- Tr	aml	ine	cont	trol									
	18 left side	18 right side	19 left side	19 right side	24 left side	24 right side	25 left side	25 right side	27 left side	27 right side	28 left side	28 right side	29 left side	29 right side	30 left side	30 right side	31 left side	31 right side	33 left side	33 right side	34 left side	34 right side	36 left side	36 right side
	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	0	2	0	2	0	2	2	2	0	0	2	2	2	2	2	2	2	2	2
	0	3	3	0	3	3	3	3	3	3	0	3			3	3	0	3	3	3	3	3	3	0
	4	4	4	4	0	4	4	4	4	4	0	4			4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	0	5	5	5			5	0			0	5	5	5	5	5
	6	6	6	6	6	6	0	6	0	6	6	0			6	6			6	6	0	6	6	6
	7	0	0	7	0	7	7	7	7	7									7	7	7	7	0	7
_	8	8	8	8	8	8	8	8	8	8									8	8	8	8	0	8
te	9	9	9	9	9	0	0	9	9	0									9	9	9	9	9	9
Tramline counter	10	10	10	10	10	10	10	10	10	10									10	0	10	10	10	10
ŏ	11	11	11	11			11	11													0	11	11	11
<u>=</u>	12	0	0	12			12	12													12	12	12	0
E	13	13	13	13			13	0													13	13	13	13
Ë	14	14	14	14			14	14													14	14	14	14
	15	15	15	15																	15	15		
	0	16	16	0																	16	16		\vdash
	17	17	17	17																	17	0		
	18	18	18	18																	18	18		
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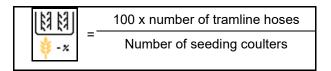
	Double - Tramline control																					
	37 left	37 right	38 left	38 right	39 left	39 right	40left	40 right	41 left	41 right	42 left	42 right	43 left	43 right	44 left	44 right	45 left	45 right	46left	46 right	47aleft	47b right
	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
	2	2	2	0	0	2	2	2	2	2	2	2	2	0	0	2	2	2	2	2	2	2
	0	3	3	3	0	3	3	3	3	0	3	3	3	3	3	3	3	3	3	3	3	0
	0	4	0	4	4	4	4	0	4	4	4	0	4	4	4	4	0	4	4	0	4	4
	5	5	0	5			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	6	0	6	6			6	6	6	6	6	6	0	6	6	0	6	6	6	6	0	6
			7	0			7	7	7	7	7	7	7	7	7	0	7	7	7	7	7	7
			8	8			8	8	8	8	8	8	8	8	8	8	8	8	8	8	0	8
							9	9	0	9	9	9	0	9	9	9	9	9	9	9	0	9
							0	10	10	10	0	10	10	10	10	10	10	10	10	10	10	10
							0	11	11	11	11	11	11	11			11	11	11	11	11	11
_							12	12	12	12	12	12	12	12			12	0	0	12	12	12
nte							13	13	13	13	13	13	13	0			13	13	13	13	13	13
Tramline counter							14	14	14	0	14	14	14	14			14	14	14	14	14	0
ပ							15	15	15	15	15	15					15	15	15	15	15	15
<u>ii</u>							16	16	16	16	16	16					16	16	16	16	16	16
a a							17	0	17	17	0	17					17	17	17	17		
ļ Ė							18	18	18	18	18	18					18	18	18	18		
							19	19	19	19	19	19					19	0	19	0		
							20	20	0	20	20	20					20	20	20	20		
									21	21	21	21					21	21	21	21		
									22	22	22	22					22	22	22	22		
											23	23					23	23	23	23		
											24	24					24	24	24	24		
											25	25					25	25	25	25		
											26	26					26	26	26	26		
																	0 28	27 28	0 28	27 28		
																	28	28	28	29		
																	30	30	30	30		

Double - Tramline control											
	48a left	48b right	49a lefz	49b right	50a left	50b right					
	1	1	1	1	1	1					
<u>~</u>		2	2	2	2	0					
l te	3 4	3	3	3	3	0					
l ö	4	4	4	4	4	4					
je o	0	5	5	0							
≒	0	6	6	0							
Tramline counter											
=											



6.1.2 Table for seed rate reduction while creating tramlines

Calculation of the seed rate reduction as follows:



Working width	Number of seeding coulters	Number of tramline hoses	Recommended percentage seed rate reduction while creating tramlines
	18	4	22%
	18	6	33%
	18	8	44%
	20	4	20%
	20	6	30%
3,0 m	20	8	40%
0,0 111	20	10	50%
	24	4	17%
	24	6	25%
	24	8	33%
	24	10	42%
	24	12	50%
	21	4	19%
	21	6	29%
	21	8	38%
	21	10	48%
	24	4	17%
	24	6	25%
3,43 m / 3,5 m	24	8	33%
3,43 111 / 3,3 111	24	10	42%
	24	12	50%
	28	4	14%
	28	6	21%
	28	8	29%
	28	10	36%
	28	12	43%



Working width	Number of seeding coul- ters	Number of tramline hoses	Recommended percentage seed rate reduction while creating tramlines
	24	4	17%
	24	6	25%
	24	8	33%
	24	10	42%
	24	12	50%
	26	4	15%
4,0 m	26	6	23%
	26	8	31%
	26	10	38%
	26	12	46%
	32	4	13%
	32	6	19%
	32	8	25%
	27	4	15%
	27	6	22%
4.5	27	8	30%
4,5	36	4	11%
	36	6	17%
	36	8	22%
	40	4	10%
5,0 m	40	6	15%
	40	8	20%
	36	4	11%
	36	6	16%
	36	8	22%
	36	10	28%
6.0 ~	36	12	33%
6,0 m	48	4	8%
	48	6	12%
	48	8	17%
	48	10	21%
	48	12	25%



Working width	Number of seeding coul- ters	Number of tramline hoses	Recommended percentage seed rate reduction while creating tramlines
	64	4	6%
8,0 m	64	6	9%
	64	8	12%
	72	4	6%
9,0 m	72	6	8%
	72	8	11%
	36	4	11%
	36	6	17%
	48	4	8%
	48	6	13%
	72	4	6%
	72	6	8%
12,0 m	72	8	11%
	72	10	14%
	96	4	4%
	96	6	6%
	96	8	8%
	96	10	10%
	96	12	13%
	48	4	8%
	48	6	13%
	60	4	7%
15.0	60	6	10%
15,0 m	90	4	4%
	90	6	7%
	90	8	9%
	90	10	11%

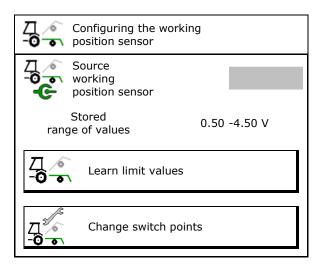


On implements with seed quantity return flow: set seed quantity reduction at 0 %.



6.2 Configuring the working position

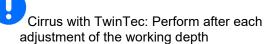
- Source
 - o Sensor (implement) in volts
 - o Lifting height ISOBUS in %
 - o Lifting height ISOBUS digital
- Teaching in switch points (see page 28)
- Changing switch points (see page 28)

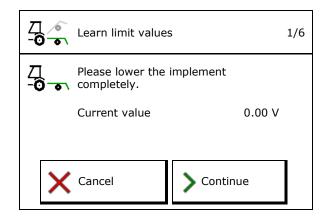


Learn limit values

When teaching in the switch points, a lifting height of the implement is assigned to a switch point using the working position sensor.

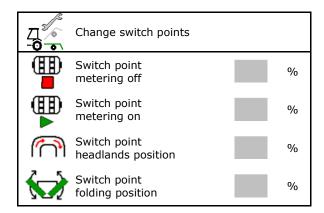
- 1. Completely lower the implement.
- 2. > Continue
- 3. Completely raise the implement.
- 4. Save the calculated values.





Change switch points

- Metering unit off switch point
- Metering unit on switch point
- Headlands position switch point (optional)
- Folding position switch point (optional)





6.3 Configuring the speed source



The implement computer needs a speed signal for a correct rate control.

There are different sources for the forward speed signal input.

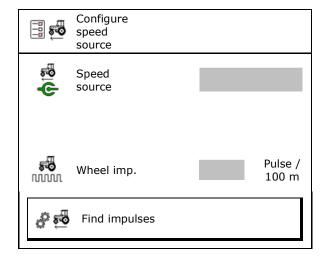
- The speed signal can be provided via the ISOBUS.
- The speed signal can be calculated using the pulses per 100 m.
- The speed signal is simulated by entering a speed (e.g., when a speed signal from the tractor fails).

Entering a simulated speed allows you to continue operation even if the speed signal fails.

- Select the source of the speed signal.
 - o Radar (ISOBUS)
 - o Wheel (ISOBUS)
 - o Satellite (NMEA 2000)
 - o Satellite (J1939)
 - o Radar (implement)
 - o Simulated
 - ightarrow Speed entered must be observed later in all cases
 - → If another speed source is detected, the simulated speed is deactivated automatically.
- Check the accuracy of the utilised speed source
- → Inaccurate speed sources can cause seeding errors.
- Enter value for pulses per 100 m,
 Default value: 9700 (for wheel sensor)

or

Determine pulses per 100 m



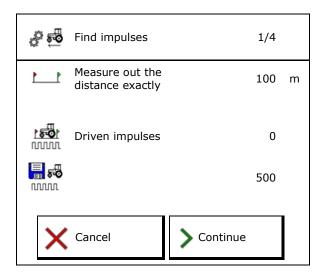


Determine the speed on the implement via the wheel pulse per 100 m



You must determine the wheel pulses per 100 m in working position under the prevailing operating conditions.

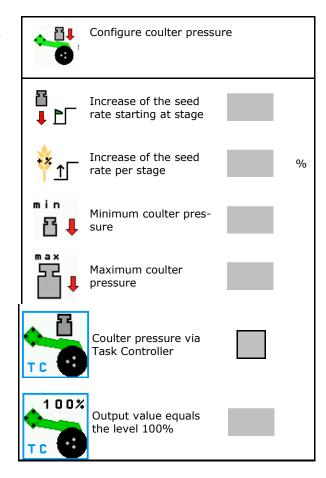
- 1. On the field, measure out a calibration distance of exactly 100 m.
- 2. Mark the start and end points.
- 3. > continue
- 4. Move the tractor to the start position.
- 5. > continue
- 6. Accurately travel along the measurement section from start to finish.
- → The pulses are detected continuously and shown on the display.
- 7. Stop exactly at the end point.
- 8. → Save



6.4 Configure coulter pressure

The coulter pressure is gradually configured. A seed rate increase can be selected accordingly if a coulter pressure is present.

- Increase of the seed rate with coulter pressure from stage 0 to 10.
 (default value 5)
- Increase of the seed rate per coulter pressure stage in %.
 (default value 10%)
- Minimum coulter pressure (standard value 0)
- Maximum coulter pressure (standard value 10)
- Control the setting of the coulter pressure via the Task Controller.
 - o **☑** yes
 - o □ no
- Assign the output value 100% from the Task Controller to a coulter pressure level. (default value 5)





6.5 Configuring the geometry

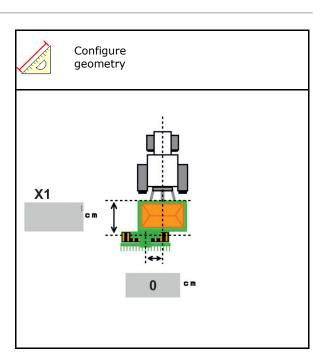
- The data are pre-configured depending on the type of the implement and must normally not be changed.
- The geometry data must match with the real length dimensions of the implement.



Lateral offset - implement to the left: Enter negative value

Geometry data for mounted implements

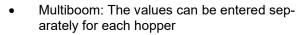
Mac	hine	X1	[cm]
		min	max
	303 Special WS	224	236
	303 Special RoteC	210	221
	353 Special	224	236
AD-P	403 Special	210	221
4	303 Super RoteC	205	209
	303 Super RoteC+	217	221
	403 Super RoteC	205	209
	403 Super RoteC+	217	221

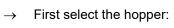




Geometry data for towed implements

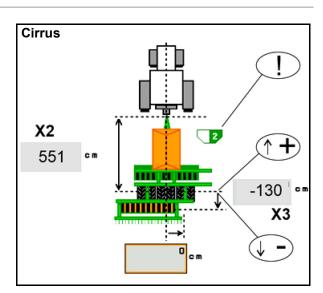
Mac	hine	X2	[cm]	X3 [cm]
		min	max	
	3003	442	552	
	3003 compact	442	552	
	3503	442	552	
Cirrus	4003	529	629	-130
تَ	4003-2	551	611	
	6003 -2	551	611	
	4003-3 / 6003-2 + T-Pack In	591	611	



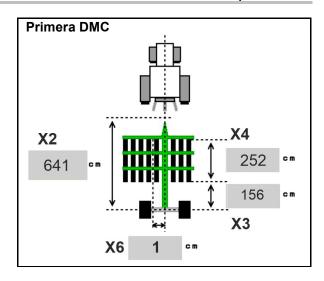




• Value X3 is positive in front of the axle and negative behind the axle.







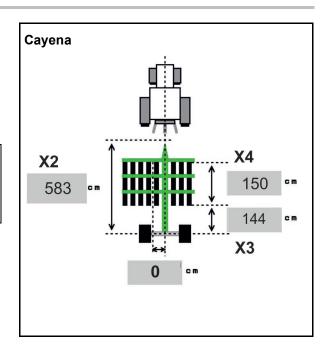
Maschine	Row spacing	X2	Х3	X4	X6
muserime	[cm]	[cm]	[cm]	[cm]	[cm]
DMC 3000 / DMC 4500 / DMC 6000-2 / DMC 9000-2	18,75		156	252	1
DMC 6000-2 / DMC 9000-2	25	641		224	-8
GD501 (DMC 3000 - DMC 9000-2)	18,75 / 25		-155	0	0
DMC 9000-2C Super	18,75	729	194	252	1
Divic 3000-20 Super	25	129	194	224	-8
DMC 9001-2C	18,75	805	270	252	1
DIVIC 900 1-20	25	005	270	224	-8
DMC 12000-2C	18,75	906	104	252	1
DIMIC 12000-2C	25	806	194	224	-8
DMC 12001-2C	18,75	995	270	252	1
DMC 12001-2C	25	885	270	224	-8



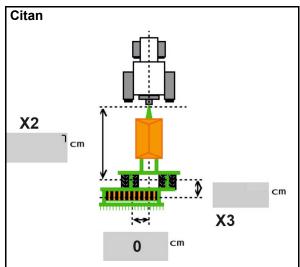
Machine	X2 [cm]	X3 [cm]	X4 [cm]
Cayena 6001 /6001-C	583	144	150



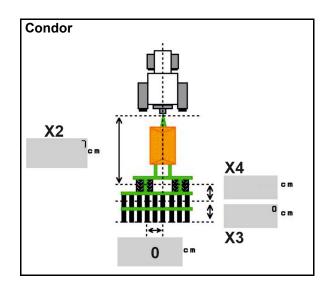
On implements with telescopic drawbars, the values must be changed according to the actual position of the drawbar.



Machine	X2 [cm]	X3 [cm]	
Citan 12001	771	157	
Citan 15001	921	157	



Machine	X2 [cm]	X3 [cm]	X4 [cm]
Condor 12001	771	249	170
Condor 15001	921	249	170

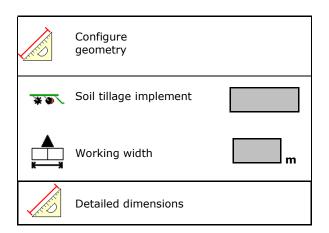


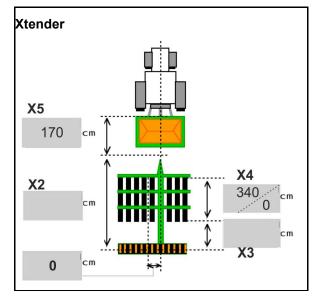


Geometry data Xtender (HB)

- Select the soil tillage implement:
 - o Cenius
 - o Catros (TS)
 - o Catros (TX)
 - o Certos
 - o Other

Machine		X5 [cm]	
НВ		170	
	X2 [cm]	X3 [cm]	X4 [cm]
Cenius (Fertiliser)	890	150	340
Cenius (Seed)	890	45	0
Catros (TS)	400	20	0
Catros (TX)	660	60	0
Certros	750	70	0
Miscellane- ous	400	50	0

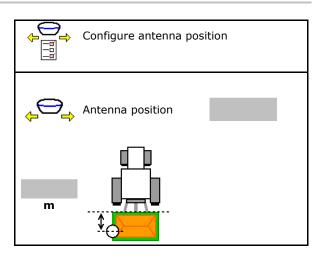






6.6 Configuring the antenna position

- Enter the GPS antenna installation site
 - Tractor
 - o Implement
- Enter the distance from the GPS antenna to the coupling point (when installed on the implement)



6.7 AutoPoint

AutoPoint uses a sensor on the coulter to determine the time required by the seed to reach the coulter after the metering unit is switched.

This enables the calculation of the optimal on/off point delays for switching the metering unit on and off at the headlands (see page 49).

The functioning of the system requires that the tractor drives on and off the headlands at a constant speed.



Before seeding

- Enter the default values for the on/off point delays in the product menu (see page 49).
- Set the geometry correctly.
- Activate Section Control on the terminal.



During seeding

- Check the on/off point delays for plausibility.
- Check the seeding results at the headlands (3 times respectively when driving on and off)!
- Maintain a constant forward speed on the headlands.
- Maintain a constant blower fan speed.



- Activate / deactivate AutoPoint
 - o ☑ ☑ Automatically transfer times to the Product menu and Section Control
 - Times are not transferred.
 Possible to enter the switch-on or switch-off times in the product menu manually.
- Activate / deactivate message boxes (MiniView)
 - o ☑ yes

Message appears with the new switchon/off time for every new measured value that is outside the tolerance limit of the old value.

- \rightarrow A new switch-on or switch-off time can be manually entered.
- o ☐ no Do not display message

Display of the switch-on / switch-off optimisation

 \rightarrow

Counter

Switch-on time

Switch-off time

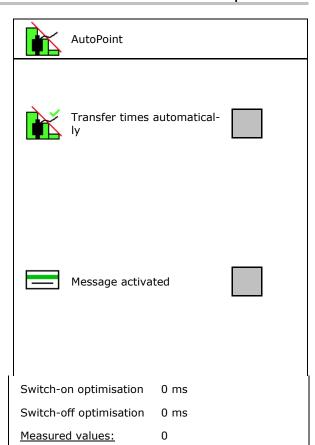
Display of the number of measurements \rightarrow

Display of the last sent values \rightarrow

The switch-on optimisation and switch-off optimisation values are determined when optimising the switch points (Product menu, delay times).

They are used to optimise the switching times to prevent seeding errors.

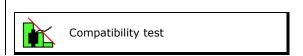
- o Reset the value for switch-on optimisation and switch-off optimisation to 0 ms.
- Performing a compatibility test (see below)
 Checking the terminal
- For divided hoppers: Assign the respective hopper to the Auto-Point sensor.
 - o ☑ (yes, sensor assigned)
 - o ☐ (no, no sensor assigned)
 - → Only possible with Multiboom setting.

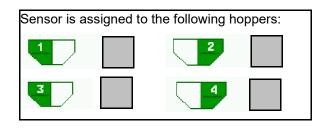


0

0 ms

0 ms







Compatibility test

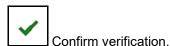


The compatibility test serves to check if a control terminal is compatible with the AutoPoint system.

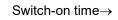
The compatibility test sends 2 randomly generated times to the control terminal.

The transmitted values are displayed and must be verified in the Section Control menu of the respective terminal.

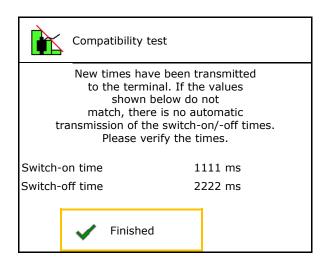
Display of the compatibility test→



Example of a verification after a compatibility test on AMATRON3 \rightarrow GPS switch \rightarrow Settings.



Switch-off time→







If the times are automatically determined, they are sent to the terminal and managed there.

The Section Control behaviour should be observed here.

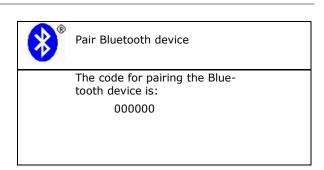
Some terminals switch the implement off for a short period of time!

6.8 Pairing the Bluetooth device

The implement can be connected to a mobile end device via Bluetooth.

To do so, enter the 6-digit code shown on the mobile end device.

The seed drill can exchange data with the mySeeder app via Bluetooth.





7 Internal documentation





Select **Documentation** in the main menu!



The **Documentation** menu is an internal, non-readable job memory.

When the documentation menu is opened, the documentation which has been started is shown.



Overall data display



Daily data display

To end a documentation process, another must be started.

Up to a maximum 20 documented jobs can be stored.

Before further documented jobs can be created, existing ones must be deleted.



Create new documentation.

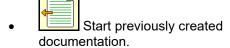
→ Enter the name.



Start documentation.



Delete day data.





Start later created documentation.



Delete documentation.

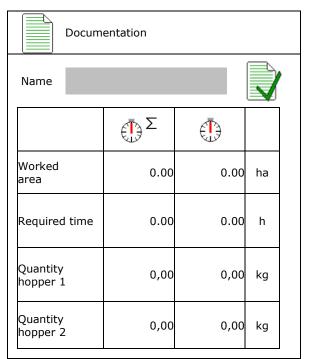


Display data for hopper 3 and hopper

4.

)
		П
ı		L

- One documentation is always started.
- Documentation which has already been stored can be selected and restarted.





8 Info menu





Select Info in the main menu!

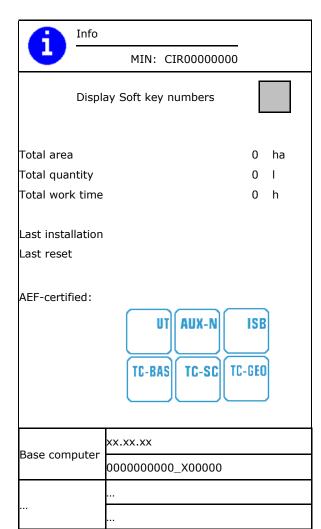
Display implement ID no. (MIN)→

- Display the softkey number in the menus
 - o ☑ (yes)
 - o □ (no)
- General display

Display the computers and software

Software version→

Computer/control unit serial number \rightarrow





9 Calibration menu



Select Calibration in the main menu!



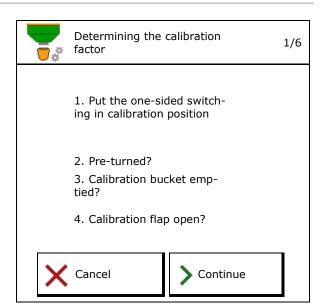
As an alternative, the calibration can also be performed using the TwinTerminal.

Determining the calibration factor

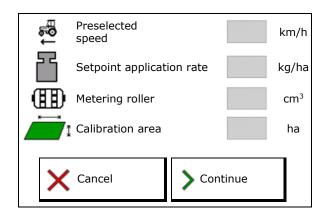
1. Put the manual onesided switching in calibration position



- 2. Open the (left) calibration flap.
- 3. Pre-meter to obtain a constant flow during calibration.
- 4. Empty the calibration bucket again.

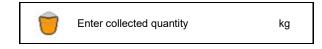


5. Check / correct the settings.





- 6. Start calibration.
- → The calibration stops automatically.
- The calibration can be stopped and started again.
- 7. Weigh the collected quantity.
- → Take account of the weight of the bucket.
- 8. Enter the value for the collected quantity in kg.



When calibrating, ensure no person is in

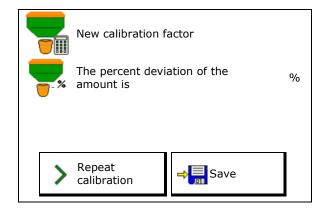
0.000 kg

the danger zone.

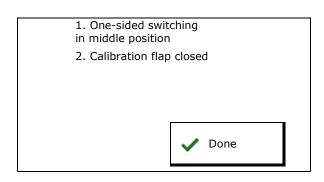
0.000 ha

Cancel

- 9. The new calibration value and the percent deviation compared to the target quantity are shown.
- → If there were errors during calibration (e.g., uneven flow), repeat the calibration.
- 10. Save the calculated values.



- 11. Put the one-sided switching back to the middle position.
- 12. Close the calibration flap.
- 13.
 Terminate the calibration.





10 Product menu



Select **Product menu** in the main menu!

(The product menu and the calibration menu are identical)

- Switch to the TwinTerminal
- Configure hopper 1
- Hopper 2,3,4 rear (optional)

Product menu		
Activate external operation		
Hopper 1 Cereals		
Setpoint application rate	80.00	kg/ha
Calibration factor	1.00	✓
Speed band	3.0-20.0	Km/h
Hopper 2 Fertiliser		
Setpoint application rate	85.00	kg/ha
Calibration factor	1.00	×
Speed band	3.0-20.0	Km/h

Display in the Product menu

- Setpoint application rate
- Calibration factor
- Calibration status
 - The calibration factor was not determined yet
 - The calibration factor was determined with a calibration test
- Calculated possible speed range for the specifications on the product.
- Deactivate the hopper. Serves for temporarily deactivating a hopper (all settings are maintained).

Hopper 1	- deactivated					
Setpoint applic	ation rate	80.00	kg/ha			
Calibration fac	tor	1.00	✓			
Speed band		3.0-20.0	km/h			



Hopper change: Enter the sequence for several hoppers when seeding.



Calibrate the hopper separately.

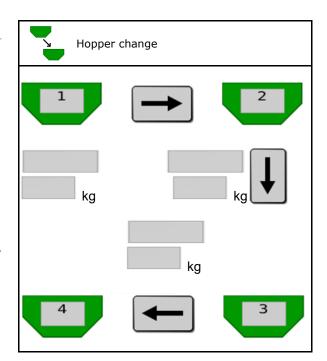
Hopper change

Configure the sequence by identifying the hoppers.

Use hoppers consecutively

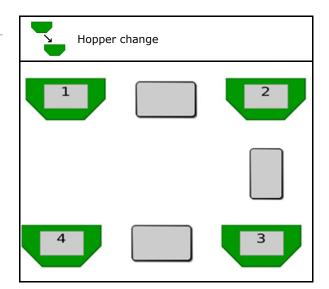
Activating the change to the next hopper based on the

- Theoretical residual quantity (To do this, filling must be performed through the hopper management) Enter the theoretical remaining quantity of the active hopper. If this value is reached, the hopper change takes place.
- Low level sensor



No hopper change

Use the hoppers simultaneously. For spreading different seeds or fertilisers



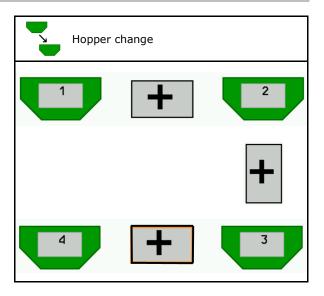


No hopper change

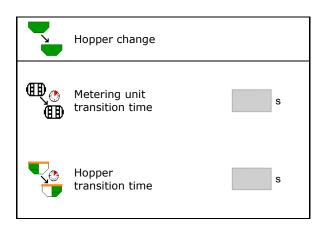
Divide target quantity onto hoppers.

Only if the target quantity is transferred from the task controller to the machine.

The target quantity is divided onto the hoppers summarized with +.



- Metering unit transition time Indicates the time that both metering units rotate simultaneously when changing hoppers.
- Hopper transition time
 When the specified fill level is reached this is the time delay until the hopper is changed.



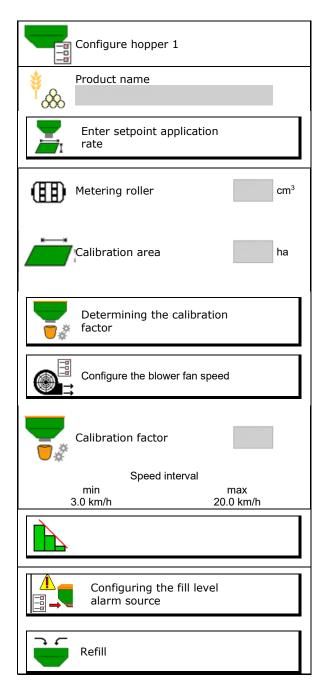


Entries in the product menu

- 1. Select hopper.
- 2. Confirm selection.
- Enter product name
- Enter setpoint application rate (see page 48)
- Enter the size of the metering roller in cm³
- Select the calibration area
 (Area for which an appropriate quantity is metered for the calibration procedure).
- → A suitable value will be suggested.
- Determine the calibration factor (see page 41)
- Configure the blower fan speed (see page 48)
- Enter a suitable calibration factor before determining the correct calibration factor (otherwise enter 1.00)

Display of the possible speed range→

- Configure the delay times (see page 49)
- Configuring the fill level alarm source (see page 54)
- Refill (see page 56)







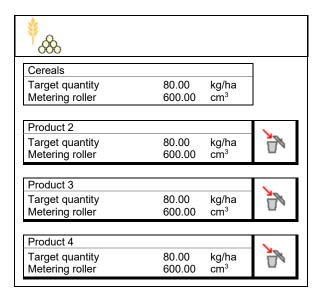
List of products



Add a new product to the list

The state of the s

Delete the adjacent product from the



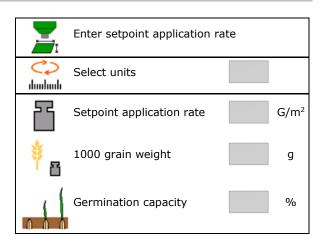


10.1 Entering the setpoint application rate

- Enter units for setpoint application rate
 - o kg/ha
 - o G (grains) / m²
- Enter value for the setpoint application rate
 If necessary, evenly divide the target value of a product onto several hoppers.

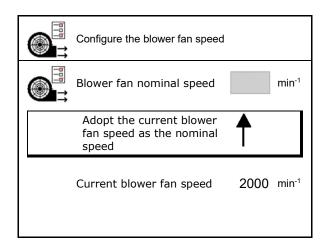
For unit G/m²:

- Enter 1000 grain weight
- Enter germination capacity



10.2 Configuring the blower fan speed

- Enter the blower fan nominal speed
- Adopt the current blower fan speed as the nominal speed
- Display of the current blower fan speed



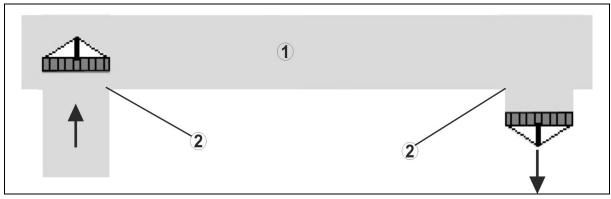


10.3 Configuring the delay time



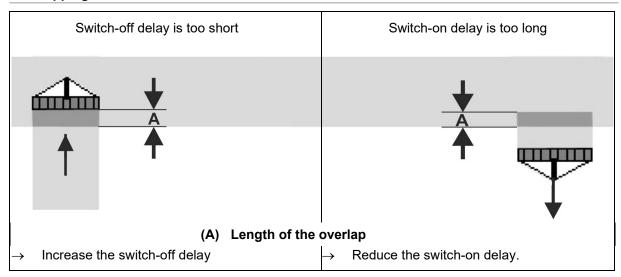
- The delay time serves to seamlessly work the field
 - o During the transition from non-worked to worked areas.
 - → The implement must be switched off before the spreading units have reached the worked area (switch-off delay).
 - o During the transition from worked to non-worked areas.
 - → The implement must be switched on before the spreading units have reached the unworked area (switch-on delay).
- The size of the overlapping/underlapping depends, amongst other things, on the forward speed.
- The delay time is a time entry in milliseconds.
- Long delay times and high speed may lead to undesired switching behaviour.

Optimal working of the field



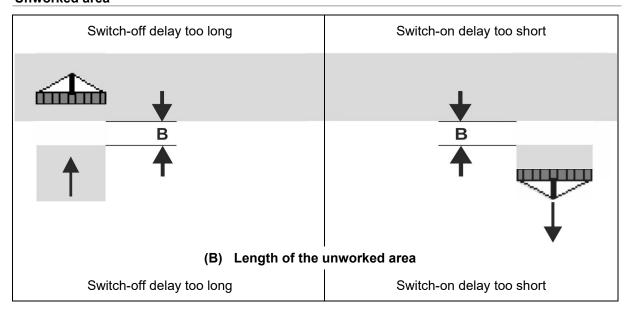
- (1) Headlands/worked field
- (2) Seamless working of the field without overlapping

Overlapping of worked areas





Unworked area





Recommended on / off point delay time sowing technology

	Delay time for	Grain kg / ha		Rapeseed kg / ha		Fertiliser kg / ha	
	[ms]	100	200	2	8	40	120
AD-P	Switch on	2500	2400	2800	2600	1	1
3 m	Switch off	2600	2800	2400	3000	1	-
Cirrus 3003-C	Switch on	2400	2200	2200	2400	2500	2300
Cirrus 3003-C	Switch off	2600	2800	1900	2200	3000	3300
0:	Switch on	3800	3500	3800	3400	-	-
Cirrus 6003-2	Switch off	3800	3700	3600	3700	-	_
Cirrus 6003-2C	Switch on	2500	2300	3000	2700	2700	2700
Cirrus 6003-2CC	Switch off	2800	2900	3100	3600	3400	3500
	Switch on Hopper 1	2600	2700	3500	3800	4100	3700
DMC 6000-2C	Switch off Hopper 1	2400	2600	4100	4100	4000	3700
	Switch on Hopper 2	2800	2800	3500	3600	4200	4000
	Switch off Hopper 2	2400	2700	3800	3800	3800	4100

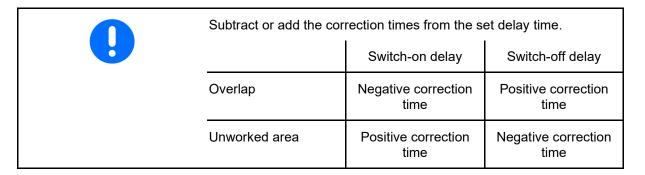
		Cereals		Oil rape seed		Fertiliser	
		Outside	Inside	Outside	Inside	Outside	Inside
Citan 12000	Motor 1	3116	2580				
3000 rpm	Motor 2	2960		2650			
Citan 12000	Motor 1	2650	2150				
4000 rpm	Motor 2	2970	2160	2050			
Cirrus 6003 3000 rpm		1610	1260			1050	1600
Cirrus 6003 4000 rpm		1100	1160			1440	1120



The stated values are recommendations, they should be checked in every case.



Correction times for delay times when overlapping / unworked areas



		Length of the overlapping (A)/Length of the unworked area (B)						
		0.5 m	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m	
	5	360 ms	720 ms	1080 ms	1440 ms	1800 ms	2160 ms	
	6	300 ms	600 ms	900 ms	1200 ms	1500 ms	1800 ms	
	7	257 ms	514 ms	771 ms	1029 ms	1286 ms	1543 ms	
D ₀	8	225 ms	450 ms	675 ms	900 ms	1125 ms	1350 ms	
) spee	9	200 ms	400 ms	600 ms	800 ms	1000 ms	1200 ms	
ard s	10	180 ms	360 ms	540 ms	720 ms	900 ms	1080 ms	
Forward speed [km/h]	11	164 ms	327 ms	491 ms	655 ms	818 ms	982 ms	
Щ	12	150 ms	300 ms	450 ms	600 ms	750 ms	900 ms	
	13	138 ms	277 ms	415 ms	554 ms	692 ms	831 ms	
	14	129 ms	257 ms	386 ms	514 ms	643 ms	771 ms	
	15	120 ms	240 ms	360 ms	480 ms	600 ms	720 ms	



Correction times for speeds and distances (A, B) which are not listed can be interpolated/extrapolated or calculated using the following formula:

Correction times for switch on / off delay times [ms] = $\frac{\text{Length [m]}}{\text{Tractor speed [km/h]}}$ x 3600



The delay times for seeding technology for switching on and off is influenced by the following factors:

- Delivery times depending on the
 - o Seed type
 - o Delivery path
 - o Blower fan speed
- Driving behaviour depending on the
 - o Speed
 - o Acceleration
 - o Braking
- GPS accuracy depending on the
 - o Correction signal
 - o Update rate of the GPS receiver





For precise switching at the headlands – especially for seed drills - the following points are absolutely necessary:

- RTK accuracy of the GPS receiver (update rate min. 5 Hz)
- Constant speed when driving in or out of the headlands
- Enter the switch-on delay in milliseconds for driving onto the field:

High value:

→ Switch-on early (avoid unworked areas)

Small value:

- → Switch-on late (avoid overlap)
- Enter the switch-off delay in milliseconds for driving onto the headlands:

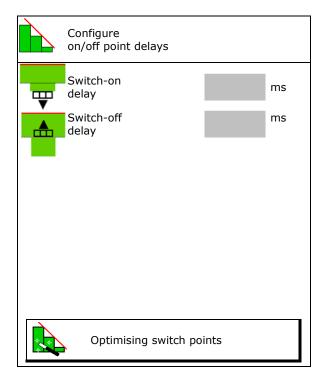
High value:

→ Switch-off late (avoid overlap).

Small value:

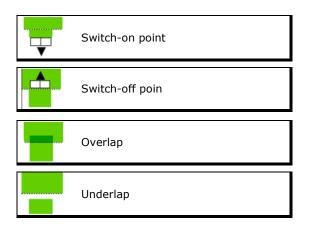
- →Switch-off early (avoid unworked areas)
- Optimising switch points

Optimisation of the switch points can also be used when using AutoPoint.



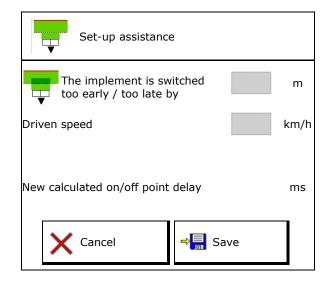
Optimising switch points

- Select the set-up assistance for the switchon point or the switch-off point.
- 2. Select setup assistance for switching too early or too late.



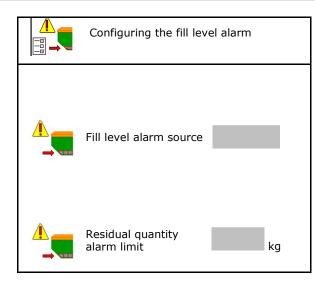


- Enter the length of the overlap / unworked area.
- Enter the driven speed.
- → It is displayed.



10.4 Configuring the fill level alarm

- Fill level alarm source
 - o Fill level sensor in the hopper
 - Theoretical calculated residual quantity (To do this, filling must be performed through the hopper management)
 - o Both (The limit value that is reached first triggers the fill level alarm)
- Enter alarm limit for theoretical residual quantity in the hopper.



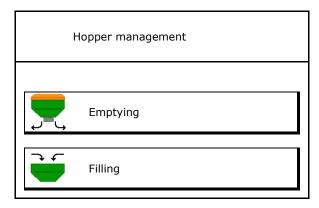


11 Hopper management



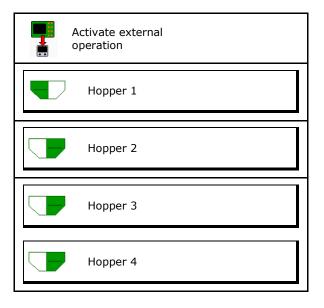
In the main menu, select **Hopper management menu** for filling and emptying!

- Perform residual emptying
- Fill hopper





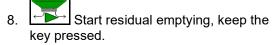
- As an alternative, emptying can also be performed using the TwinTerminal.
- With divided hoppers, select the hopper before filling and emptying.
- Switch to the TwinTerminal
- Hopper 1
- Hopper 2
- Hopper 3
- Hopper 4



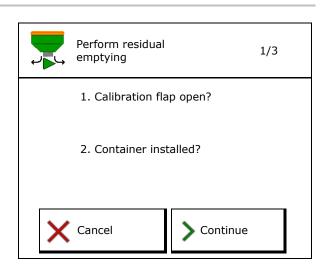


11.1 Performing residual emptying

- → The metering rollers remain mounted!
 - 1. Stop the implement.
- 2. Switch off the blower fan.
- 3. For partitioned hopper: select hopper.
- Front half of the hopper.
- Rear half of the hopper.
 - 4. Secure the tractor and implement against unintentional rolling.
- 5. Open the calibration flap.
- 6. Fasten collection bag or trough under the hopper opening.
- 7. > Continue

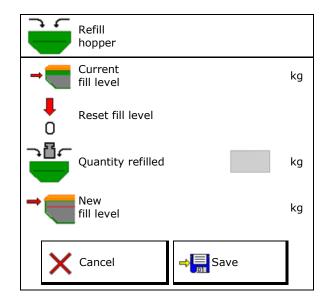


9. Close the calibration flap after emptying.



11.2 Refilling the hopper

- Display of the current fill level
- Reset the fill level to 0 kg
- Enter the refilled quantity
- Display new fill level





The displayed hopper fill level is a theoretical value that is calculated using the refilled quantity and the target application rate.



12 Use on the field - Work menu





Select Work menu in the main menu!



If the Work menu is exited while working, it automatically changes back to the work menu after 10 seconds.

The following entries must be made before starting with seeding:

- Create user profile
- Enter the implement data
- Enter the product data and perform calibration



The implement is operated in the Work menu using the sub-menus.



The arrangement of the function fields can vary depending on the terminal used.



Functions that

- are switched off in the Setup menu,
- do not belong to the implement equipment

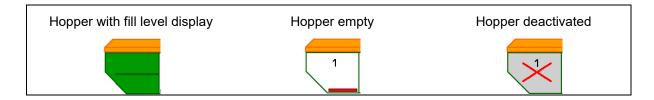
are not shown in the Work menu (function fields are not assigned).



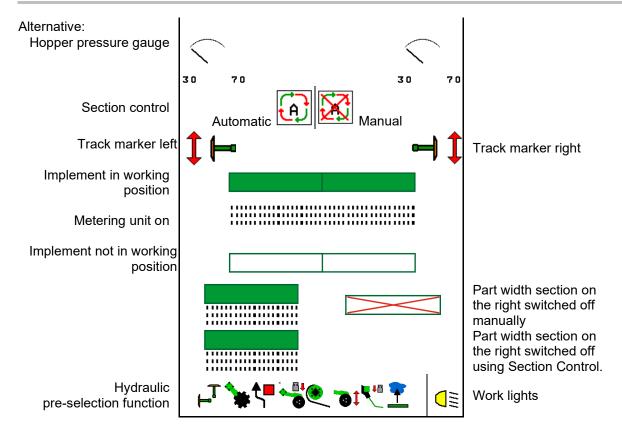
12.1 Display in the Work menu

Multi-functional display	1 🖽) . () () ha () U/min () . () km/h	1	1	Tramline control
Hopper change active					
	Impleme pers:	ent with	1, 2 or	3 hop-	
Application rate Hopper 1	0.0 kg/ha 100%			0.0 kg/ha 100%	Spread rate Hopper 2 (with divided hopper)
Hopper 1		1	2		Hopper 2 (with partitioned hopper)
Filling level hopper 1		1420 kg	48,50 kg		Filling level hopper 2
Metering unit speed Hopper 1	ŒD OU∕min			(Ⅲ) 0 U∕min	Metering unit speed Hopper 2

Display for each hopper: Spread rate Spread rate in % Metering unit speed	Θ,Θ kg/ha 100 % 0 U/min		
Hopper 1 with fill level	0,00 kg	2	Hopper 2 with fill level
Hopper 3 with fill level	3 0,00 kg	4 0,00 kg	Hopper 4 with fill level



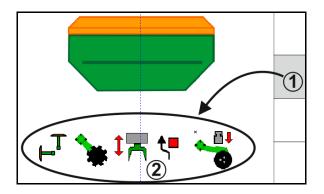






12.2 Pre-selection for hydraulic functions

- 1. Pre-select a hydraulic function (1) using a function key.
- → The pre-selected hydraulic function (2) is shown at the bottom of the Work menu.
- 2. Operate the tractor control unit.
- → The pre-selected hydraulic function is being executed.
- 3. Press the function key again to cancel the pre-selection again.



Pre-selection hydraulic functions (depending on the implement and equipment

Cirrus

Symbol for hydraulic pre- selection	Function	Coloured hose marking (tractor control unit)
No symbol	Running gear / coulter - standard (without hydraulic pre-selection)	
T _⊢ T	Track markers	yellow
₹.	Track marker obstacle function	,
<u>*</u>	Water hole function	
	Fold boom	
	Disc array	green
	Coulter pressure	_
®	Crushboard intensity	blue

Cayena

Symbol for hydraulic pre- selection	Function	Coloured hose marking (tractor control unit)
-	Standard running gear (without hydraulic pre-selection)	
⊢ ^T	Track markers	A
₹ -	Track marker obstacle function	gelb
<u>*</u>	Water hole function	
	Fold boom	grün



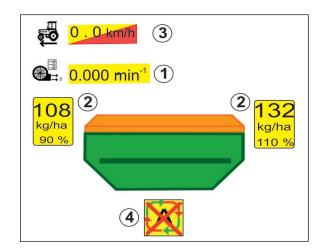
12.3 Deviations from the nominal state



Displays marked in yellow are indications for deviating from the nominal state.

Displays marked in red indicates a missing information source.

- Blower fan speed deviates from the nominal value
- (2) The nominal value was changed manually using the quantity increment
- (3) Simulated speed active/information source not available
- (4) All conditions for Section Control have been met.

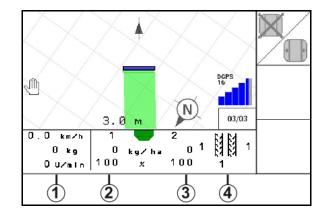


12.4 Mini-view in Section Control

Mini-view is a section from the work menu which is shown in the Section Control menu

- (1) Multi-function display
- (2) Hopper 1 with target quantity
- (3) Hopper 2 with target quantity
- (4) Tramline control

Messages are also shown in the miniviews.





Mini-view cannot be displayed on all operating terminals.



12.5 Switching Section Control (GPS control)



Switching Section Control on and off



Information for Section Control:

- Section Control can always be overridden by:
 - o manual part width section control.
- Switch the Section Control on at the terminal first.

Then switch on Section Control on the implement control unit!

Display in the work menu (can be set in the Configure ISOBUS menu):

If automatic part width section control is not possible, a message appears with the necessary requirements.

- X Requirement not met
- Requirement met

Note

Automatic part width section control not possible. The following requirements must be met.

- Section Control of the terminal (Task Controller) activated
- Switch on blower fan (>200 rpm)
- Implement error free
- Implement unfolded

Please acknowledge this message



12.6 Track markers

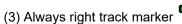


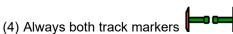
Cirrus03: When raising / lowering the implement, the pre-selected track marker is automatically actuated.

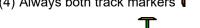


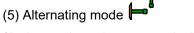
Manual track marker pre-selection

- (1) Display active track marker
- Manual track marker pre-selection
 - (2) Always left track marker



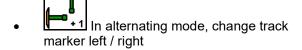


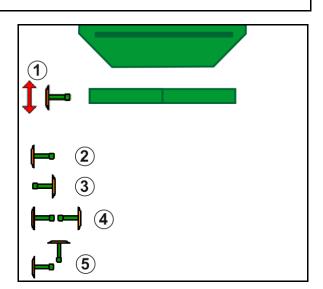




(Active track marker automatically changes at headlands)

- No track marker
- ightarrow AD-P: Actuate *yellow* tractor control unit.







Track marker shifting in alternating mode

Track marker shifting enables changing the active track marker from left to right and vice-versa.

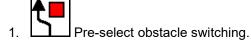
→ Actuate yellow tractor control unit.





Track marker obstacle switching

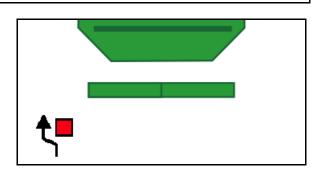
For passing obstacles on the field.



- 2. Actuate yellow tractor control unit.
- → Raise the track marker.
- 3. Pass by the obstacle.
- 4. Actuate yellow tractor control unit.
- → Lower the track marker.



Cancel the pre-selection.



12.7 Folding the implement

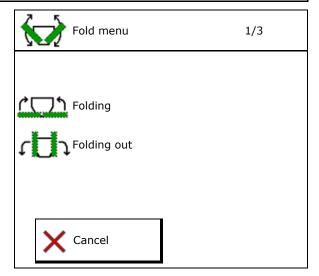


Fold/unfold the implement

• Unfold the implement into working position



Fold the implement into transport





WARNING

To move the implement from transport position to working position and vice-versa, be sure to observe the implement operating manual!



Unfolding the Cirrus 6003-2

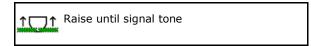
- 1. Actuate *yellow* control unit until the signal sounds.
- → Raise the implement.
- 2. ✓ Confirm.
- 3. Actuate *green* tractor control unit.
- \rightarrow The booms unfold.
- 4. ✓ Confirm.





Folding the Cirrus 6003-2

- 1. Actuate *yellow* control unit until the signal sounds.
- → Raise the implement.
- 2. ✓ Confirm.
- 3. Actuate green tractor control unit.
- \rightarrow The booms are folded.
- 4. ✓ Confirm.







12.8 Tramline control



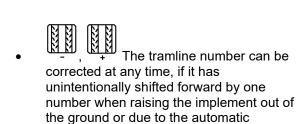


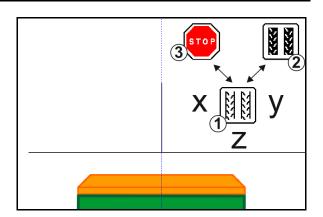
Reset channel counter
Switch forward tramline counter

The tramline counter shifts when the implement is raised.

- (1) Display tramline is not being created
- (2) Display tramline is being created
- → Tramline counter at 0.
- (3) Display shifting of the tramline counter is suppressed
- (x) Only for double tramline: Current tramline number on the left
- (y) Current tramline number (on the right for double tramline)
- (z) Tramline rhythm

operation.







Suppress shifting of the tramline counter



- Stop tramline counter.
- → When raising the implement, the tramline counter is not shifted.



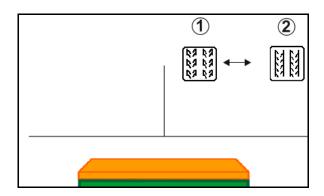
- Cancel tramline counter stop.
- → When the implement is raised, the tramline counter is shifted.





Select interval tramline / standard tramline

- (1) Interval tramline display
- (2) Standard tramline display



12.8.1 Automatic tramline control

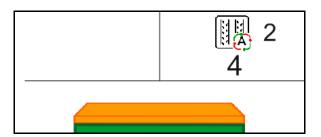
Automatic tramline control display

The automatic tramline control is regulated via GPS using the parallel guidance module of the CCI terminal or ISOBUS.

Here, regardless of the sequence in which the guidance lines are followed, the tramlines are properly created.

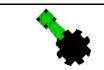
This requires the following:

- A reference track must be recorded during the first field pass.
- Parallel Tracking must be switched on.





12.9 Disc array working depth

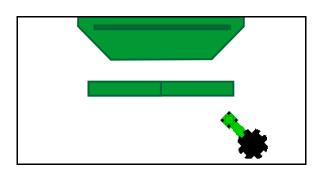


Adjusting the working depth of the disc array



Pre-select disc array.

- 2. Actuate *green* tractor control unit.
- → Increase / reduce working depth:
- → The depth can be chacked on the scale on the disc array



12.10 Coulter pressure via tractor control unit

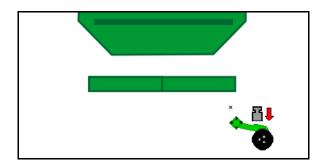


Adjusting the increased / reduced coulter pressure (Cirrus, Citan)

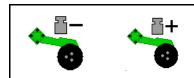


Pre-select coulter pressure.

- 2. Actuate green tractor control unit.
- → Set increased pressure.
- → Set reduced pressure.



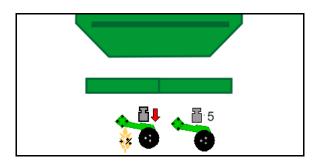
12.11 Coulter pressure in stages



Select coulter pressure (0-10)



- The selected stage for the coulter pressure will be displayed.
- The increase in the seed rate will be displayed.





12.12 Coulter lift

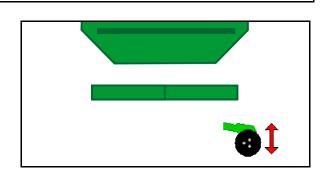


Raising / lowering the coulters (mounted implements)



Pre-select the coulter lift.

- 2. Actuate green tractor control unit.
- Only perform soil tillage.
- For grass seeding
- The metering unit continues to run, switch off separately if necessary.

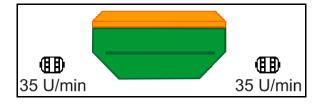


12.13 Electrical full metering



Start / stop pre-metering

- When starting seeding: when starting from standstill, activate the pre-metering in order to ensure that sufficient seed is spread over the first metres.
- To fill the seed metering wheel before calibration.





Start the pre-metering.

→ The pre-metering supplies the coulters with seed for a set running time.

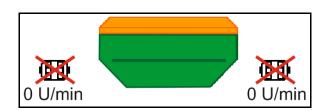


Electrical full metering: keep the metering unit switched off

To prevent unintentional start-up of the metering unit, it can be switched off.

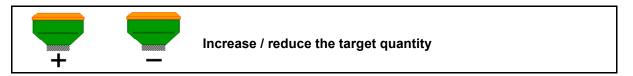
This can be useful, since even small movements in front of the radar sensor can cause the metering unit to start running.

→ Display metering unit switched off



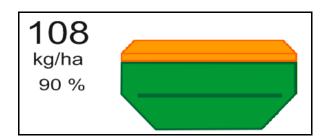


12.14 Change in target quantity



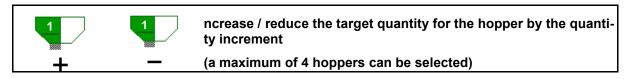
The target quantity can be changed as required during operation.

The changed target quantity is shown in kg/ha and percent in the Work menu.



- Each time the key is pressed, the seeding rate is increased by the quantity increment (e.g.:+10%).
- Reset the seeding rate to 100%.
- Each time the key is pressed, the seeding rate is reduced by the quantity increment (e.g.:-10%).

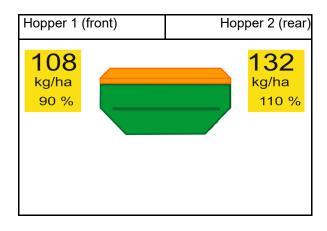
12.15 Change in the target quantity with divided hopper



Each time the key is pressed, the target quantity is increased by the application rate (e.g.: +10%).

- Hopper 1
- Hopper 2
- Hopper 3
- Hopper 4

The changed target quantity is shown in kg/ha and percent in the Work menu.





12.16 Water hole function



Switching the water hole function on / off

The water hole function allows driving through wet areas with the implement lifted without interrupting seeding.

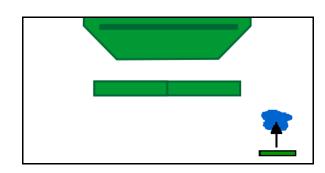


Pre-select the water hole function.

- 2. Actuate the yellow tractor control unit.
- → Lift the tools.
- 3. Drive through the area.
- 4. Actuate the *yellow* tractor control unit.
- → Lower the tools.



Cancel the pre-selection.



12.17 Alternative view hopper pressure



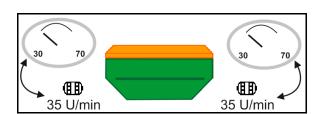
Only for seed hopper with positive pressure:

Display of positive pressure in seed hopper

1. Display showing positive pressure in seed hopper.



Back to display speed dosing motor.





12.18 Recording mode for recording a field boundary



Switching the recording mode on / off

(A) 100 %

When recording mode is switched on, a field boundary can be recorded without having the implement in working position (metering is interrupted, no advancing of the tramlines).

1. Switch on recording - Drive around the field boundary.

6,0 km/h

Note

Metering unit is stopped. Recording active. Please drive around the field

and store on the terminal.

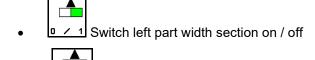
A message will be shown \rightarrow

- 2. Switch off recording When manoeuvring on the field.
- 3. After driving around the field, create the field boundary through the GPS menu.
- 4. Delete the worked area again (depending on the terminal), since the perimeter is marked as the worked area.

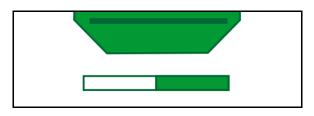
12.19 Boom part width sections



Half-sided part width section control



• Switch right part width section on /



→ Display part width section left switched off.



12.20 Work lights



Work floodlights on / off

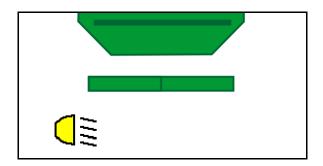


WARNING

Risk of accident by dazzling other road users!

When driving on the roads, keep the work floodlights switched off.

→ Display work floodlights switched on.



12.21 KG depth adjustment

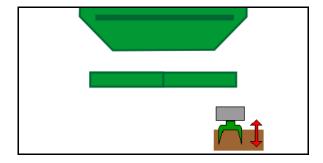


Adjust the KG working depth



➡Pre-select KG depth adjustment.

2. Actuate the beige tractor control unit.





12.22 Overview Multi-functional display

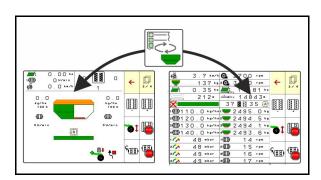


Change the work view/multi-function view displays

1. Switch to multi-function display overview



Back to work view.





12.23 Procedure for use

- 1. TaskController: task or start internal documentation.
- 2. If necessary, switch on Section Control on the control terminal.
- 3. Check the data in the Product menu and determine the calibration factor.



Unfold the implement if necessary

- 5. Towed implements: Lower the coulters into working position.
- 6. Select the track marker shifting and lower the desired track marker.
- 7. Select the tramline rhythm and enter the correct tramline number.



Switch on Section Control if necessary.

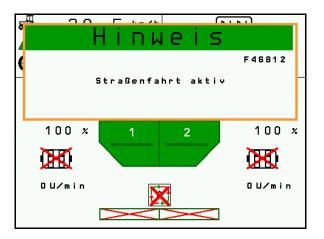
- 9. Start seeding.
- 10. After approx. 30 m, come to a stop and check the seeding.

12.24 Driving on public roads

When driving at more than 20 km/h and with the blower fan turned off, the control terminal switches to road travel mode.

In road travel mode, it is not possible to operate the implement using the control terminal.

For subsequent seeding on the field, the seed metering unit must be unlocked again, see page 69.





13 TwinTerminal 3

13.1 Product description

The TwinTerminal 3 is located directly on the implement and is used

- for convenient calibration of the seed.
- for convenient residual emptying.

The TwinTerminal 3 is switched on using the control terminal.

Alternating display:



4 Softkeys:



The TwinTerminal is operated using 4 softkeys.

The function fields show the current function of the softkeys.





Back to the start screen.



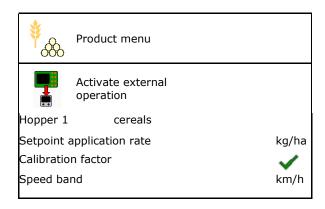
On the control terminal, errors or warnings are displayed with a text message. The TwinTerminal then shows the following notice:



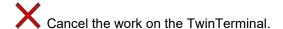


On the control terminal:

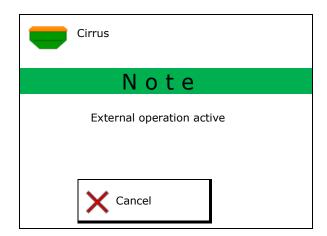
- Switch on the TwinTerminal through the *Product* menu.
- → Performing the calibration with the Twin-Terminal
- Switch on the TwinTerminal through the Residual emptying menu.
- → Residual emptying via the TwinTerminal



Display on the control terminal when TwinTerminal is active.



→ Control terminal active again.



Start screen with software version:





13.2 Performing a calibration

Partitioned hopper:

1. Divided hopper: select hopper 01, 02 or other for the calibration.

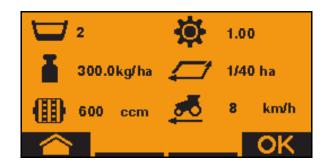


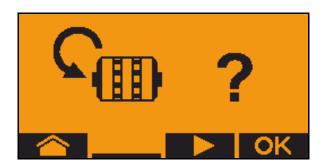


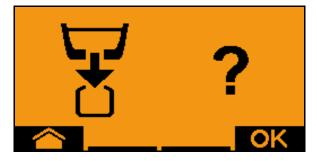


Partitioned hopper, identical seed, simultaneous metering adjustment.

- The target quantity must be divided to the metering units.
- The calibration test must be carried out for the appropriate proportion of the target quantity per metering unit.
- 3. Check the following entries before calibrating.
 - o Hopper 1, 2 (for partitioned hopper \rightarrow 2 rear)
 - o Target quantity
 - Size of the metering roller in ccm
 - o Calibration factor
 - o Relative area for which the implement will be calibrated
 - o Intended forward speed
- 4. Confirm entries.
- 5. Pre-metering (keep key pressed)
- 6. Confirm that pre-metering is concluded.
- → After pre-metering, empty the collection hopper again.
- 7. Confirm that the flap under the metering unit is opened and that a collection container is placed underneath.

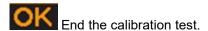






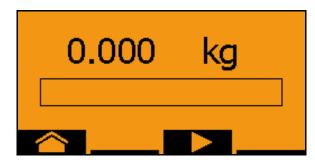


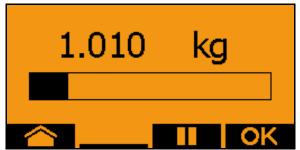
- 8. Start with the calibration procedure (keep key pressed during calibration).
- The calibration procedure can be interrupted and started again.
- → During the calibration procedure the theoretic spread quantity will be displayed.
- As soon as OK appears, the calibration test can be ended prematurely:

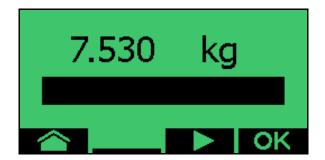


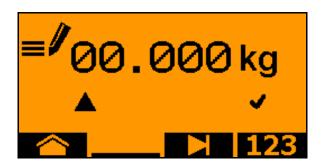
Display green: The calibration procedure is finished, the motor stops automatically.

- 9. Release key.
- 10. Go to the entry menu for the calibration quantity.
- 11. Weigh the collected quantity.
- 12. Enter the value for the collected quantity.
- → To enter the collected quantity in kg, a decimal number with 2 places before and 3 places after the point is available.
- → Each decimal place is entered separately.
 - 12.1 Select decimal place.









- The selected decimal place is indicated by an arrow.
 - 12.2 Go to the menu for numeric entry.
- → The underscore indicates the possible numeric entry.
 - 12.3 Enter the decimal value.
 - 12.4 Confirm decimal value.
 - 12.5 Enter additional decimal values.

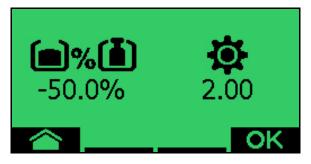




- 13. Exit entry menu (activate several times if necessary)
 - g display appears:
- \rightarrow until the following display appears:
- 14. Confirm value for collected quantity.
- ightarrow New calibration factor will be displayed.
- → Difference between the calibration quantity and the theoretic quantity is displayed in %.
- 15. Exit Calibration menu, Start menu is displayed.

The calibration procedure is finished.





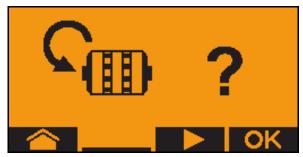


13.3 Residual emptying

- 1. Stop the implement.
- 2. Switch off the blower fan.
- 3. Secure the tractor and implement against unintentional rolling.
- 4. Open the flap of the injector.
- 5. Fasten collection bag or trough under the hopper opening.
- 6. Divided hopper: select hopper 01, 02 or other for the calibration.
- 7. Confirm selection.
- 8. Confirm that the flap under the metering unit is opened and that a collection container is placed underneath.



9. Emptying (press and hold the button)







14 AUX-N multi-function sticks

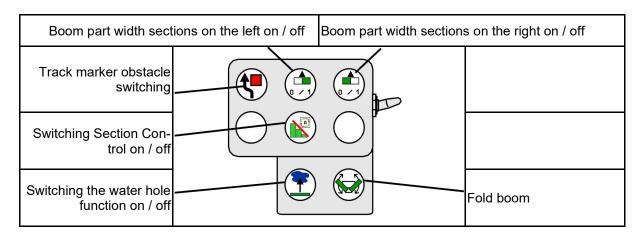


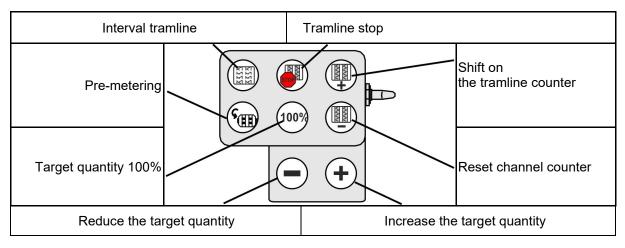
AUX-N - Auxiliary Control

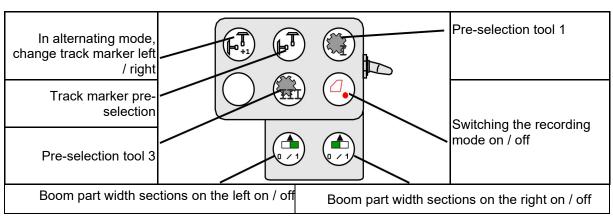
The implement computer supports the AUX-N standard. Therefore, the functions of the implement can be assigned to an AUX-N-compliant multi-function stick.

The AmaPilot+, WTK and Fendt multi-function sticks are preassigned as a standard.

Assignment of WTK multi-function stick

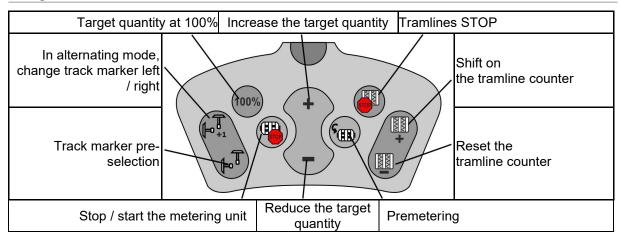








Assignment of the Fendt multi-function stick





15 AmaPilot/AmaPilot+ multi-function stick

The implement functions can be executed using the AmaPilot+.

AmaPilot+ is an AUX-N control element with freely selectable button assignment.

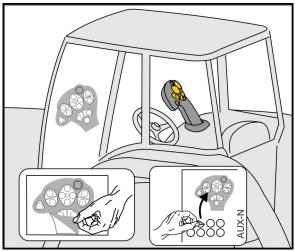
A default button assignment is pre-configured for every Amazone ISOBUS implement.

The functions are spread over 3 levels and can be selected by pressing with your thumb.

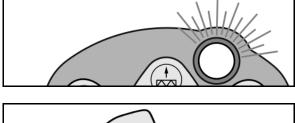
In addition to the standard level, two other control levels can be switched.

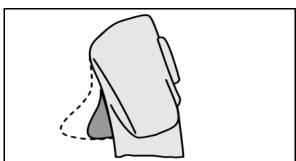
A sticker with the default assignment can be stuck in the cab. For a freely assigned key assignment, a new sticker can be applied over the default assignment.





- Standard level, Illuminated button is green.
- Level 2 when trigger on the back is held, Illuminated button is yellow.



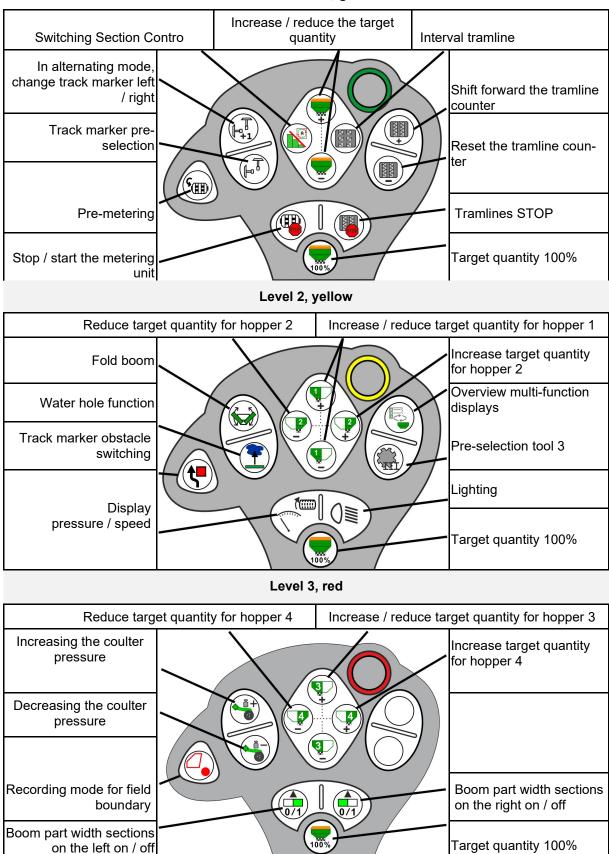


 Level 3 after pressing the illuminated button, Illuminated button is red.



AmaPilot+ with fixed assignment / default assignment

Standard level, green





16 Fault

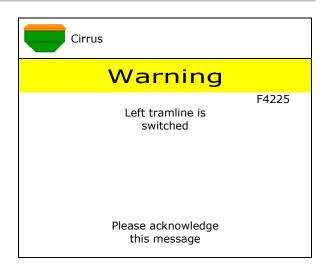
16.1 Display on the control terminal

A message appears as:

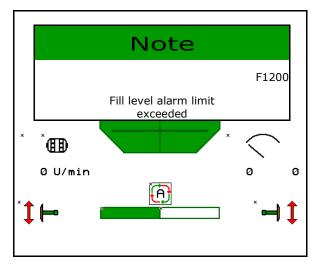
- Note
- Warning
- Alarm

The following are displayed:

- The number of the fault
- A text message
- If applicable, the symbol of the respective menu



Note:





16.2 Fault table

Number	Species	Cause	Remedy
F45000	Warning	Motor of the one-sided switching cannot be controlled	Check the system for blockages and remove them Move the motor via the Diagnostics menu or replace the motor
F45001	Warning	Motor of the one-sided switching cannot be controlled	Check the system for blockages and remove them Move the motor via the Diagnostics menu or replace the motor
F45002	Warning	Defective or incorrectly set sensor on the electric one-sided switching or cable break	Check the sensor in the diagnosis menu by moving the one-sided switching, if necessary, realign or replace
F45003	Warning	Defective or incorrectly set sensor on the electric one-sided switching or cable break	Check the sensor in the diagnosis menu by moving the one-sided switching, if necessary, realign or replace
F45004	Warning	Defective sensor or cable break	Check the voltage of the pressure sensor in the diagnosis menu. The value should be greater than 0.5 V. Check the wiring and, if necessary, replace the pressure sensor
F45005	Warning	Defective sensor or cable break	Check the voltage of the pressure sensor in the diagnosis menu. The value should be greater than 0.5 V. Check the wiring and, if necessary, replace the pressure sensor
F45007	Note	Low filling level or defective sensor or cable break	Check fill level, check sensor in the Diagnosis menu, check the wiring harness
F45008	Note	Metering unit cannot turn slower	Drive faster, calibrate again adjust application rate
F45009	Note	Metering unit cannot turn faster	Drive slower Repeat calibration Adjust application rate
F45010	Note	Stop button has been selected	Deactivate stop button
F45011	Note	Metering unit stop has been selected	Deactivate stop metering unit
F45012	Warning	The folding process has taken longer than 3 minutes	Restart folding procedure
F45013	Note	Pulse per 100 m is set to zero in the implement setup	Enter the pulses per 100 m or run in
F45014	Note	The user has entered an invalid value	The user must enter a larger value
F45015	Warning	Speed below 200 rpm, defective sensor, cable break	Check speed, check sensor in the Diagnostics menu, check the wiring harness
F45016	Warning	Incorrect configuration, cable break between the base computer and OSS computer, defective one-sided switching computer	Check the configuration, check the wiring harness, replace one-sided switching computer
F45017	Note	The specified minimum pressure is dropped below	Increase blower fan speed of the singling blower fan If necessary, reduce the min. value Call up the diagnosis menu (e.g. defective sensor)
F45018	Note	The maximum specified pressure is exceeded	Minimize blower fan speed if necessary, increase pressure call-up diagnosis menu (e.g. sensor defective)



F45019	Warning	The working position sensor on the implement has failed	Break in the wiring harness or defective working position sensor
F45020	Warning	The user has selected a tramline rhythm that is not supported	Adjust the implement configuration or select a valid rhythm for this implement
F45021	Note	Deviation between target quantity in the calibration menu and in the job menu	Call up the Calibration menu in order to determine a new calibration factor or ignore the error message by confirming with the input key (caution, incorrect spread rate is possible!)
F45022	Note	Export of the settings is not possible as no ISOBUS file server has been started.	Start the ISOBUS file server and try exporting again.
F45023	Note	Import of the settings is not possible as no ISOBUS file server has been started.	Start the ISOBUS file server and try exporting again.
F45024	Note	Section Control has been deactivated on the terminal by the user	The user selects the other operating modes for the implement. If the deactivation was unintentional, the user must check for the cause on the terminal, e.g. poor GPS signal
F45025	ALARM	The working position from ISOBUS is currently no longer available.	The user must check the TECU (tractor control unit) settings for the tractor.
F45026	Note	The user wants to activate Section Control and one of the specified prerequisites is not met.	All of the listed conditions must be fulfilled to be able to activate Section Control.
F45027	Note	The user has changed the setpoint spread rate considerably and might have to change to a different metering roller	Confirm or change the metering roller to achieve a sufficient speed band
F45028	Note	The user has set a residual quantity for the hopper and the current residual quantity is 0.0 kg.	Fill the hopper using the filling management or the product menu. Alternatively, switch over to fill level sensors
F45029	Warning	A major hardware error has occurred in the control unit.	If this warning reoccurs, contact your dealer
F45030	Warning	Mechanical defect or defective sensor or cable break	Checking the mechanism of the tramline gap or call up the diagnosis menu
F45031	Warning	Mechanical defect or defective sensor or cable break	Checking the mechanism of the tramline gap or call up the diagnosis menu
F45032	Note	Road travel was detected and the blower fan is not switched off.	Please switch off the blower fan.
F45033	Warning	Mechanical defect or defective sensor or cable break	Checking the mechanism of the tramline gap or call up the diagnosis menu
F45034	Warning	Mechanical defect on the tramline motor or cable break	Checking the mechanism of the tramline gap or call up the diagnosis menu
F45035	Warning	Mechanical defect on the tramline motor or cable break	Checking the mechanism of the tramline gap or call up the diagnosis menu
F45036	Warning	Mechanical defect on the tramline motor or cable break	Checking the mechanism of the tramline gap or call up the diagnosis menu
F45037	Note	Low filling level or defective sensor or cable break	Check fill level, check sensor in the Diagnosis menu, check the wiring harness
F45038	Warning	Mechanical defect or defective sensor or cable break	Checking the mechanism of the tramline gap or call up the diagnosis menu
F45039	Note	The residual quantity in the hopper set by the user has been reached.	Refilling the hopper
F45040	Note	The speed source from ISOBUS is currently no longer available.	The user must check the TECU (tractor control unit) settings for the tractor.



F45041	Alarm	The user has actuated the ISOBUS shortcut button and the implement is being put into safe mode	Deactivate the ISOBUS shortcut again to operate the implement
F45042	Alarm	The user has enabled the ISOBUS shortcut button	The user must confirm that the implement is activated again
F45043	Warning	Mechanical defect or defective sensor or cable break	Checking the mechanism of the tramline gap or call up the diagnosis menu
F45044	Alarm	The residual quantity in the hopper set by the user in the sequence menu has been reached and the hopper will be changed.	Deactivate the sequence menu
F45045	Note	Blower fan operates outside the tolerance range set	Change tolerance range, check the sensor, check the hydraulics
F45046	Note	The user has switched to simulated speed and the sensor (implement) has detected a speed	Rectify defect in the sensor (implement) or continue work with simulated speed. If a sensor (implement) is defective, it must be removed from the wiring harness.
F45047	Warning	Mechanical defect on the metering motor or cable break	Call up the diagnosis menu, control the motor and check the rotary impulse
F45048	Warning	Mechanical defect on the metering motor or cable break	Call up the diagnosis menu, control the motor and check the rotary impulse
F45049	Warning	Open metering flap, defective sensor, cable break	Close metering flap, replace sensor, check wiring harness (only with older metering units made from VA)
F45050	Note	The residual quantity in the hopper set by the user has been reached.	Refilling the hopper
F45051	Note	The residual quantity in the hopper set by the user has been reached.	Refilling the hopper
F45052	Warning	Calibration flap sensor installed and implement should meter with the calibration flap open.	Close calibration flap
F45053	Note	Calibration flap sensor installed and implement should be calibrated when the calibration flap is closed	Open calibration flap
F45054	Note	A speed and a blower fan speed are at hand on the job computer. To continue, the implement must be stopped and the blower fan must be switched off	Stop implement and blower fan
F45055	Note	Export of the settings is not possible	Adjust the target / source for the export
F45056	Note	Import of the settings is not possible	Adjust the target / source for the import
F45057	Note	The currently selected settings are not correct and have not be saved.	Check the settings
F45058	Note	The implement has detected an outdated software version in one of the subsystems.	Check the software for the sub-systems and perform an update if necessary
F45064	Note	Section Control has been deactivated by the terminal	Activate Section Control on the terminal or check the settings for the terminal
F45066	Note	Metering system reaches its performance limit	Increase / reduce speed and/or adjust target quantity. Faulty speed calculation (check pulses per 100 m)
F45068	Note	The user has selected the export of the settings	



F45069	Note	The user has selected the import of the settings	
F45070	Note	The user has allocated a changed product to a hopper. The product settings must be checked.	
F45072	Note	The user has made a change on the implement that requires a restart.	
F45073	Warning	The job computer has determined undervoltage on the 12V electronics or 12V load	Check the connection of the basic equipment on the battery, possible cable break / crushing, check voltages via Diagnostics menu
F45074	Note	The calibration flap option has been activated in the setup and the current status of the implement requires that the calibration flap be closed	Close the calibration flap
F45075	Note	The roller and spread rate entered by the user is not optimal, the calibration factor may have been shifted. The metering motor cannot maintain the required speed	Use a different metering roller or adjust the spread rate, or reset the calibration factor to 1.00
F45076	Warning	Incorrect configuration, cable break between the basis and hadraulic computer, defective hydraulic computer	Check the configuration, check the wiring harness, replace hydraulics computer
F45077	Note	Metering unit cannot turn slower	Drive faster Repeat calibration Adapt application rate
F45078	Note	Metering unit cannot turn faster	Drive slower Repeat calibration Adapt application rate
F45079	Note	The metering system with the mentioned number is reaching its performance limit	Increase / reduce speed and/or adjust target quantity. Speed calculation is wrong (check impulse per 100 m)
F45080	Note	The mentioned fan is operating outside the set tolerance range	Change tolerance range, check the sensor, check the hydraulics
F45081	Note	The hopper change set by the user is invalid	Select a valid hopper
F45082	Note	The residual quantity in the hopper set by the user has been reached.	Refilling the hopper
F45083	Note	The residual quantity in the hopper set by the user has been reached.	Refilling the hopper
F45084	Warning	Incorrect configuration, cable break between the two base computers, defective base computer	Check the configuration, check the wiring harness, replace base computer
F45085	Note	Effective immediately, the switch-on and - off times that were manually optimised by the user will be added to / subtracted from the times determined by AutoPoint	



F45086	Warning	Mechanical defect on the metering motor or cable break	Call up the diagnosis menu, control the motor and check the rotary impulse
F45087	Warning	Mechanical defect on the metering motor or cable break	Call up the diagnosis menu, control the motor and check the rotary impulse
F45088	Warning	An error has occurred while importing several parameters.	After the import, check all of the settings for the implement in the Setup / Product menu / User menu
F45089	Warning	When moving the one-sided switching, the current was too high and a forced shut-off was triggered for self-protection	Check the system for blockages and remove them, adjust the motor if necessary. Move the motor via the Diagnostics menu or replace the motor
F45090	Warning	When moving the one-sided switching, the current was too high and a forced shut-off was triggered for self-protection	Check the system for blockages and remove them, adjust the motor if necessary. Move the motor via the Diagnostics menu or replace the motor
F45091	Note	An error was observed in the AUX-N assignment. Erroneous assignments were deleted.	Check the assignment of the AUX-N control devices.
F45092	Note	The UT on which the implement is logged in is too slow and has a delayed reaction, so that the CAN messages to the terminal are not processed in a timely manner.	Check or change the terminal When working with CurveControl, deactivate the nozzle animation in the work view to reduce the BUS load Please contact your AMAZONE service partner
F46800	Note	Metering unit cannot turn faster	Drive slower Repeat calibration Adjust application rate
F46801	Note	The specified minimum pressure is dropped below	Increase blower fan speed of the singling blower fan If necessary, reduce the min. value Call up the diagnosis menu (e.g. defective sensor)
F46802	Note	The maximum specified pressure is exceeded	Minimize blower fan speed if necessary, increase pressure call-up diagnosis menu (e.g. sensor de- fective)
F46803	Note	Stop button has been selected	Deactivate stop button
F46804	Note	Metering unit stop has been selected	Deactivate stop metering unit
F46806	Note	Metering system reaches its performance limit	Increase / reduce speed and/or adjust target quantity. Faulty speed calculation (check pulses per 100 m)
F46807	Note	Metering unit cannot turn slower	Drive faster, calibrate again adjust application rate
F46808	Note	Blower fan operates outside the tolerance range set	Change tolerance range, check the sensor, check the hydraulics
F46809	Note	The residual quantity in the hopper set by the user has been reached.	Refilling the hopper
F46810	Note	The residual quantity in the hopper set by the user in the sequence menu has been reached and the hopper will be changed.	Deactivate the sequence menu



F46811	Note	The speed source selected by the user is no longer available and the system automatically switched to a valid alternative source.	Check the cause of failure for the primary source
F46812	Note	The implement has detected road travel and is being put into safe mode.	As soon as seeding operation should begin, the implement must be unlocked.
F46813	Note	The residual quantity in the hopper set by the user has been reached.	Refilling the hopper
F46814	Note	The residual quantity in the hopper set by the user has been reached.	Refilling the hopper
F46815	Note	GPS recording mode has been activated by the user.	Terminate GPS recording mode by pressing again
F46816	Note	Section Control has been deactivated by the terminal	Activate Section Control on the terminal or check the settings for the terminal
F46817	Note	The AutoPoint system has determined new switch-on times and AutoPoint messages have been activated by the user	Deactivate AutoPoint messages, or change the new times manually on the ISOBUS terminal.
F46818	Note	The AutoPoint system has determined new switch-off times and AutoPoint messages have been activated by the user	Deactivate AutoPoint messages, or change the new times manually on the ISOBUS terminal.

16.3 Failure of functions without alarm message on the terminal

If function failures occur that are not displayed on the control terminal, check the fuse of the ISOBUS socket on the tractor.

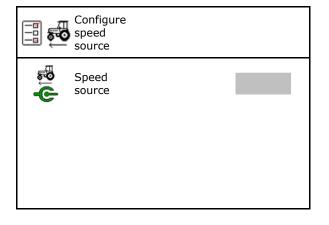
16.4 Failure of the speed signal from the ISOBUS

A simulated speed can be entered in the Implement Data menu as a source for the speed signal.

This allows the use of the implement without a speed signal.

See:

- 1. Enter simulated speed.
- 2. Maintain the simulated speed as you continue operation.







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