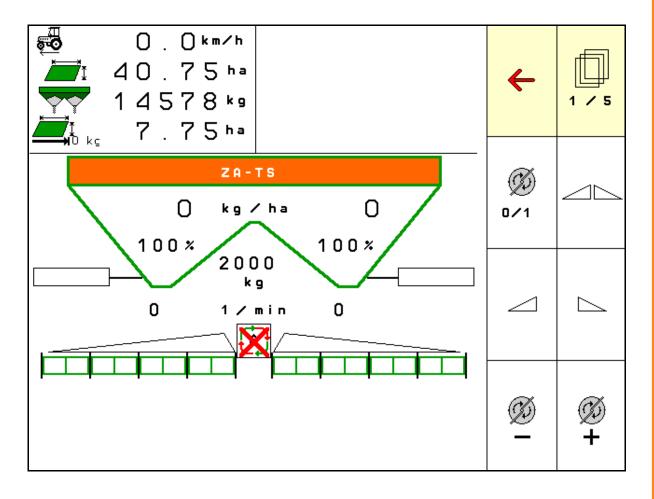
Operating Manual

AMAZONE

Software ISOBUS for ZA-TS ZG-TS



MG4143 BAG0095.17 03.19 Printed in Germany Please read and follow this operating manual before putting the machine into operation. 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. Rud. Sark.



Identification data		
	Enter the machine identi tion data on the rating pl	fication data here. You will find the identifica- ate.
	Machine identification nu (ten-digit)	umber:
	Туре:	ISOBUS
	Year of manufacture:	
	Basic weight (kg):	
	Approved total weight (k	g):
	Maximum load (kg):	
Manufacturer's address		
	AMAZONEN-WERKE	
	H. DREYER GmbH & Co	o. KG
	Postfach 51	
	D-49202 Hasbergen	
	Phone: + 49 (0) 5405	50 1-0
	E-mail: amazone@am	azone.de
Spare part orders		
	Spare parts lists are free www.amazone.de.	ly accessible in the spare parts portal at
	Please send orders to ye	our AMAZONE dealer.
Formalities of the operatin	g manual	
		NO (1 10

Document number:	MG4143
Compilation date:	03.19
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Preface



Dear Customer,

	You decided to purchase one of our high quality machines from the
	comprehensive range of farm machinery produced by AMAZONEN- WERKE, H. DREYER GmbH & Co. KG. We thank you for your confi- dence in our products.
	On receiving the machine, check to see if it was damaged during transport or if parts are missing. Using the delivery note, check that the machine was delivered in full including the ordered special equip- ment. Replacement will be made only if a claim is filed immediately!
	Please read and follow this operating manual - in particular, the safety instructions - before putting the machine into operation. Only after careful reading will you be able to benefit from the full scope of your newly purchased machine.
	Please ensure that all the machine operators have read this operating manual before they put the machine into operation.
	Should you have any questions or problems, please consult this op- erating manual or contact your local service partner.
	Regular maintenance and timely replacement of worn or damaged
	parts increases the lifespan of your machine.
User evaluation	
User evaluation	parts increases the lifespan of your machine.
User evaluation	parts increases the lifespan of your machine. Dear Reader, We update our operating manuals regularly. Your suggestions for
User evaluation	parts increases the lifespan of your machine. Dear Reader, We update our operating manuals regularly. Your suggestions for improvement help us to create ever more user-friendly manuals.
User evaluation	parts increases the lifespan of your machine. Dear Reader, We update our operating manuals regularly. Your suggestions for improvement help us to create ever more user-friendly manuals. AMAZONEN-WERKE
User evaluation	parts increases the lifespan of your machine. Dear Reader, We update our operating manuals regularly. Your suggestions for improvement help us to create ever more user-friendly manuals. AMAZONEN-WERKE H. DREYER GmbH & Co. KG
	instructions - before putting the machine into operation. Only after careful reading will you be able to benefit from the full scope of your newly purchased machine.Please ensure that all the machine operators have read this operating manual before they put the machine into operation.Should you have any questions or problems, please consult this op-

E-mail: amazone@amazone.de



1	User information	7
1.1	Purpose of the document	7
1.2	Locations in the operating manual	7
1.3	Diagrams used	7
2	General safety instructions	8
2.1	Representation of safety symbols	
3	Product description	
3.1	Software version	
3.2	Menu navigation layout	
3.3	Hierarchy of the ISOBUS software	
4	Main menu	
4.1	Display of the Main menu	
4.2	Sub-menus of the Main menu	
5	Weather documentation	
-		
6	Manage documentation	.13
7	Enter / determine / manage fertiliser-specific data	
7.1	Fertiliser database	14
7.2	Enter fertiliser data	
7.3	The fertiliser calibration factor	
7.4	Determining the fertiliser calibration factor when the implement is at a standstill	
7.4.1 7.4.2	Determining the calibration factor using the lateral calibration device Determining the calibration factor using the shutter (for fine special spreading material)	
7.5	Border, boundary and ditch spreading configuration	
7.6	Optimising switch points	
7.6.1	Set-up assistance	
8	User profile	.25
8.1	Configure key assignment	27
8.2	Configuring the multi-functional display	29
8.3	Configure the ISOBUS	30
9	Configure implement	.32
9.1	Refill fertiliser	
9.2	Emptying the fertiliser hopper	35
9.3	Weighing spreader: Taring the fertiliser spreader	36
9.4	Weighing spreader: adjusting the fertiliser spreader	36
9.5	Speed signal source	37
9.6	Spreader alignment	37
9.7	Service spreader	
9.8	Configuring ArgusTwin	
9.9	WindControl configuration	
9.10	FlowCheck configuration	
9.11	Setup menu	
10	Mobile fertiliser test rig	.40
11	Info menu	.41
12	Application on the field	
12 12.1		.42
	Application on the field	.42 43



Table of Contents

12.4	Mini-view in Section Control	
12.5 12.5.1	Calibration on the field Online calibration with weighing technology (scale)	
12.5.2	Offline calibration during a calibration run	
12.6	Description of the functions in the Work menu	
12.6.1 12.6.2	Shutter	
12.6.2	Changing the spread rate while spreading Refill fertiliser	
12.6.4	Hydro: Switching spreading disc drive on and off	
12.6.5	Boom part width sections	
12.6.6	Boundary spreading	
12.6.7	Switching Section Control (GPS control)	
12.6.8 12.6.9	AutoTrail steering axle	
12.6.10	ArgusTwin (optional) WindControl	
12.6.11	FlowCheck	
12.6.12	ZG-TS work lights	
12.7	Procedure for use	
12.7.1	Use of fertiliser spreader with mechanical spreading disc drive	
12.7.2	Use of fertiliser spreader with hydraulic spreading disc drive	65
13	AUX-N multi-function sticks	67
14	AmaPilot/AmaPilot+ multi-function stick	68
15	Maintenance and cleaning	
15.1	Cleaning	
15.2	Notes on an update of the software	
16	Problem	
16.1	Failure of the speed signal from the ISO-bus	73
16.2	Display on the control terminal	
16.3	Fault table	



1 User information

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

1.1 Purpose of the document

This operating manual

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

1.2 Locations in the operating manual

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

1.3 Diagrams used

Instructions for action and reactions

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

Example:

- 1. Instruction for action 1
- \rightarrow Reaction of the machine to instruction for action 1
- 2. Instruction for action 2

Lists

Lists without a mandatory sequence a presented as a list with bullet points.

Example:

- Point 1
- Point 2

Item numbers in diagrams

Numbers in round brackets refer to the item numbers in the diagrams. The first digit refers to the diagram; the second digit, to the item number in the illustration.



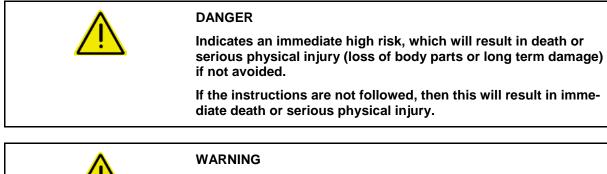
2 General safety instructions

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

IT 🗾	ne operation manual
•	must always be kept at the place at which the machine is oper- ated!
•	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 gravity of the risk and has the following significance:



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 incur minor or medium level physical injury or damage to property if not avoided.



IMPORTANT

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

Non-compliance with these instructions can cause faults on the machine or in the environment.



NOTE

Indicates handling tips and particularly useful information.

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



3 Product description

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

The ISOBUS software works with the following AMAZONE fertiliser spreaders:

- ZA-TS with delivery point adjustment, Auto TS boundary spreading system, power take-off or optional hydraulic spreading disc drive
- ZG-TS with delivery point adjustment, Auto TS boundary spreading system, power take-off or optional hydraulic spreading disc drive

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

Adjustments

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

Operation

The ISOBUS software controls the spread rate according to travel speed.

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

3.1 Software version

This operating manual is valid from software version:

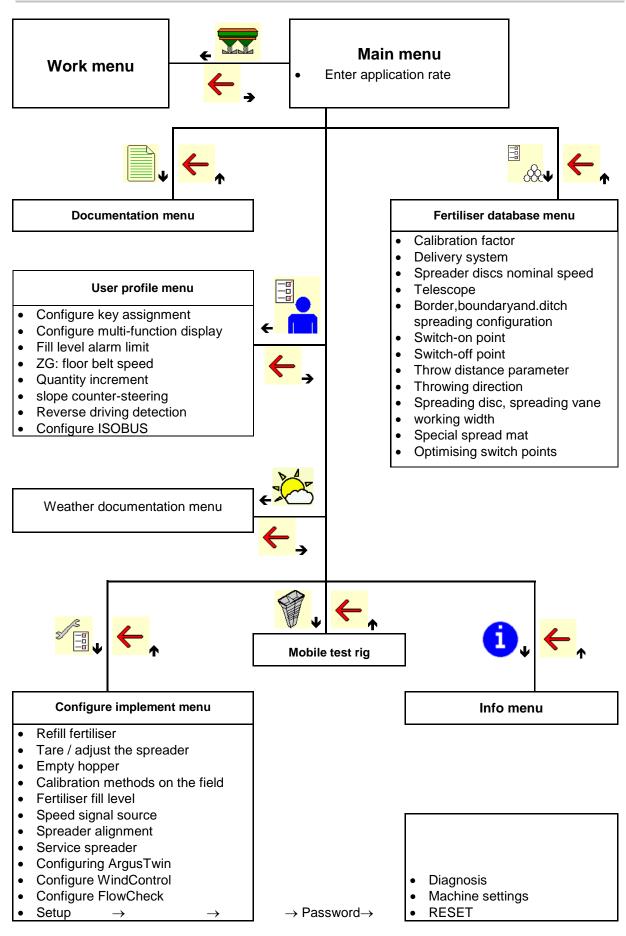
Base computer: 1.17.01

3.2 Menu navigation layout

•	Back to previous menu
•	Scrolling in the menu



3.3 Hierarchy of the ISOBUS software

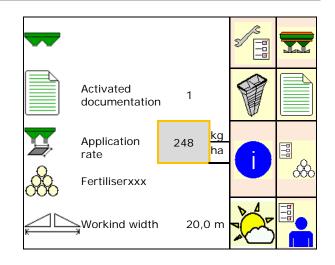




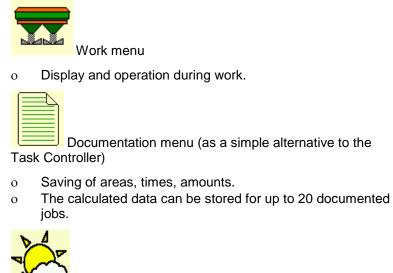
4 Main menu

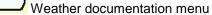
4.1 Display of the Main menu

- Adjusted machine
- Only internal documentation
- Enter application rate
- Fertiliser selected
- Set working width



4.2 Sub-menus of the Main menu

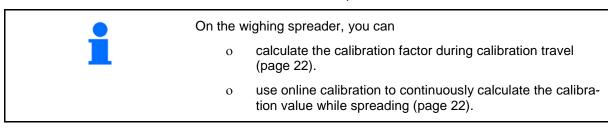




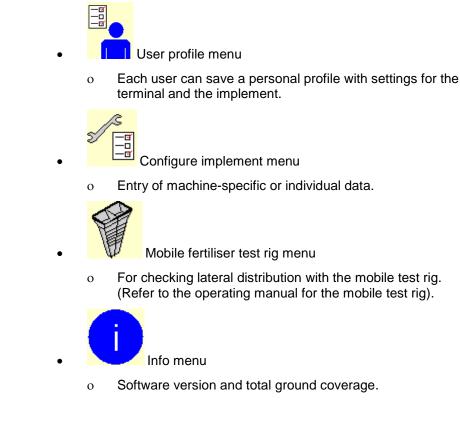
o Save weather data



- o Entry of the data that are dependent on the fertiliser used.
- o Before each use, determine the calibration factor for the fertiliser to be spread.







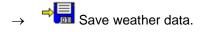
5 Weather documentation



The Task Controller must be activated.

Every time you save, the entered weather data are saved with the active job in the Task Controller.

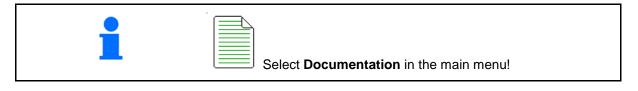
- Enter wind strength
- Enter wind direction
- Enter temperature



Wea	ather data		
Acti	ve job		
Win	d speed		m/s
Win	d direction		
Ten	nperature		°C
X Car	ncel	Save	



6 Manage documentation





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

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

● 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.

Documentation				
Name				•
	£Σ			
Worked area	0.00	0.00	ha	
Required time	0.00	0.00	h	
Theoretical amount	0.00	0.00	kg	



Create new documentation.

 \rightarrow Enter the name.



Start documentation.





Start previously created documentation.



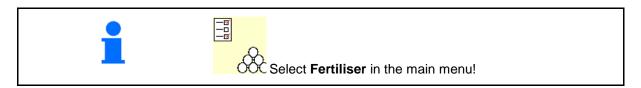
Start later created documentation.

Delete documentation.

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

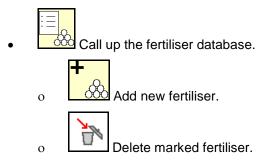


7 Enter / determine / manage fertiliser-specific data



7.1 Fertiliser database

In the fertliser database, up to 20 fertiliser types with software settings and settings at the fertiliser spreader can be saved, edited and displayed.



Fertiliser		
12D02Fertiliser 2		
Working width	24.0m	
Disc	TS2	
DFertiliser 3		
Working width	24.0m	
Disc	TS2	5
Do11dFertiliser 1		
Working width	24.0m	
Disc	V1	2

7.2 Enter fertiliser data



All fertiliser-specific details can be obtained from the setting chart.

- Enter the name of the fertiliser
- Calibration factor, see page 16.
- Calibration factor, see page 14.
- ZA-TS, ZG-TS: Delivery system position value from the setting chart
- Nominal spreading disc speed value from the setting chart
- Telescope (required for FlowCheck)
- Configure the border spreading, see page 22.
- Configure the boundary spreading, see page 22.

	Name	_	
	Calibration factor		
k	Determine the calibration factor		
	Drop-point pos.		
Ø	Disc nominal speed		1 min
Ģ	Telescope		
$\mathbf{\mathbf{x}}$	Config. border spreading		
	Config. boundary spreading		



- Configure ditch spreading, see page 22.
- Enter the switching on point. value from the setting chart
- Enter the switching off point.
 - o Typical value for tramline-optimised driving

ZA-TS: 7 m ZG-TS: 10 m

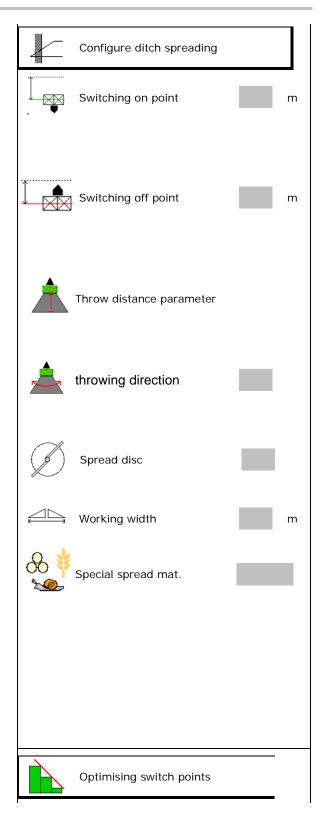
- o Setting chart value for distributionoptimised driving
- Throw distance parameter for WindControl value from the setting chart
- Enter the throwing direction for the ArgusTwin system.
 value from the setting chart

Confirm the throwing direction with the mobile test rig.

- Enter the spreading disc (required for FlowCheck)
- Check / enter working width
- Select special spreading materials
 - o Fertiliser
 - o Fine special spreading material (slug pellets, fine seed)

The speed-proportional quantity regulation is not active!

- o Coarse special spreading material (rice, cereals, peas)
- Optimising switch points, see page 23.





The entry of several fertiliser data (e.g., spreading disc) serves only for data storage and does not replace the setting chart for the respective fertiliser.



7.3 The fertiliser calibration factor

0	• The fertiliser calibration factor can be found in the setting chart for each fertiliser.
	• Use the fertiliser calibration factor from the setting chart as a reference value before calibration and enter in the fertiliser data.
	• The value of the setting chart is optimised by calibrating the fertiliser.
	• The determined fertiliser calibration factor overwrites the value from the setting chart.
	Before determining the fertiliser calibration factor:
	• Select fertiliser / add new fertiliser.
	• Carry out / check settings for the fertiliser.

The fertiliser calibration factor determines the regulating behaviour of the machine computer and is dependent on the flow characteristics of the fertiliser to be spread.

The fertiliser flow characteristics depend on:

- fertiliser storage, storage time and climatic factors.
- working conditions.

The calibration value is determined differently for each spreader.

The table below indicates the pages where the calibration method is described for each spreader.

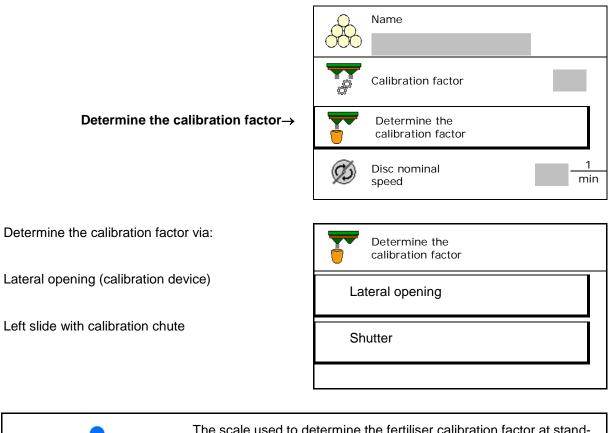
	ZA-TS		ZG-TS
		Profis	Profis
Calibrate the fertiliser with the implement at standstill:		See	page
Calibration via the lateral calibration device	19	19	
Calibration with mounted implement (special spreading material)	20	20	20
Calibrate the fertiliser while driving:		See	page
Automatically during calibration travel		22	22
Online calibration while driving with scale		48	48



	 The fertiliser flow characteristics may change even after a brief fertiliser storage period. Therefore, before each use, re-determine the fertiliser calibration factor of the fertiliser to be spread.
	• Always determine the fertiliser calibration factor again if devia- tions occur between the theoretical and actual spread rates.
	• The spread rate entered in the terminal must not exceed a max- imum value (dependent on working width, proposed speed and entered calibration factor).
	→ The maximum spread rate/ha has been reached when the slider is fully open.
_	Realistic calibration factors for fertiliser (0.7 to 1.4):
	• 0.7 for urea
	1.0 for calcium ammonium nitrate (CAN)
	1.4 for fine, heavy PK fertilisers
•	Application of special spreading material
	Coarse special spreading material (rice, rye, barley, wheat, oats):
	\rightarrow The realistic range for the calibration factor is increased from 0 to 2 because of the very different flow characteristics of rice.
	Fine special spreading material (slug pellets, rapeseed, mustard, radish and other fine seeds):
	→ As a result of a very low application rate, the calibration is car- ried out directly on the shutter.
	The enced preparties of supprise regulation is not actively
	\rightarrow The speed-proportional quantity regulation is not active!



7.4 Determining the fertiliser calibration factor when the implement is at a standstill



The scale used to determine the fertiliser calibration factor at standstill must weigh accurately. Inaccuracies may cause deviations in the actual dispensed quantity.



7.4.1 Determining the calibration factor using the lateral calibration device



Before the actual determination of the calibration factor, carry out a test run (without calibration menu) in order to guarantee a continuous flow of fertiliser.

Calibrate

spreader

- 1. Add a sufficient quantity of fertiliser to the hopper.
- 2. Hang a collection bucket onto the calibration device.
- 3. Open the discharge of the calibration device via the hand lever.
- During calibration, the terminal indicates the \rightarrow calibration time in seconds.
- 4. Close the discharge as soon as the collection bucket is full.

	Determine the calibration factor	-	1/3
	Open shutter		
۲	Wait until calibration bucket is full		
	Time	0 s	
\times	Cancel		

2/3

- 5. Weigh the collected fertiliser (allow for the weight of the collection bucket).
- 6. Enter amount of weighed fertiliser, pay attention to the units.
- The new calibration factor will be displayed. \rightarrow
- 7. Save the new calibration factor,

abort calibration,

repeat the calibration with the new calibration factor.

	in t collected	5.00 kg
Calibra	ate spreader	3/3
New calibra	ation factor	1.00
	G Repea	at
X Cance		е



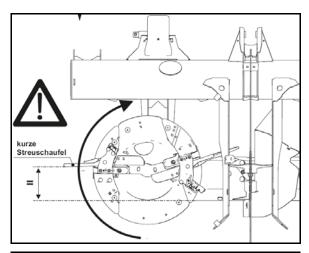
7.4.2 Determining the calibration factor using the shutter (for fine special spreading material)

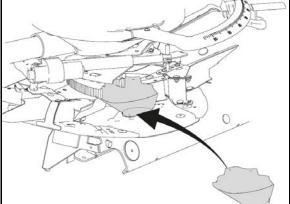
Preparing the calibration

1. Turn the left spreading disc to the correct position.

Position of the short spreading vane, outside \rightarrow

- 2. Install the calibration chute above the left spreading disc.
- 3. With manual adjustment of the delivery system: Set the delivery system to Position 10 on the left side.
- 4. Add a sufficient quantity of fertiliser to the hopper.
- 5. Position the collection bucket under the left outlet opening.



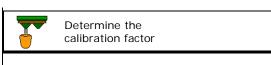


Select the fertiliser menu.

- 6. Select fine special spreading material.
- \rightarrow ArgusTwin wird automatisch deaktiviert.

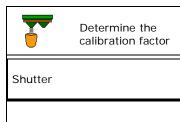
Determining the calibration factor for the slug pellets

1. Determine the calibration factor.



Special spreading materials

2. Select the calibration shutter.



Name

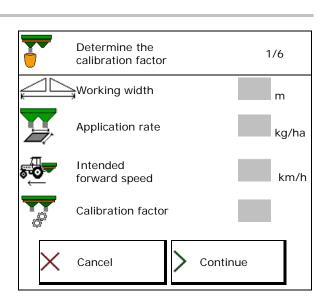
Slug pellets_1_



- 3. Check the value entered for the special spreading material:
- → Enter the specified speed and maintain later during spreading!

Carry out calibration:

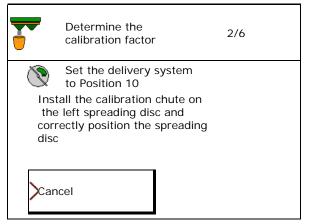
 \rightarrow > continue



With electrical delivery system:

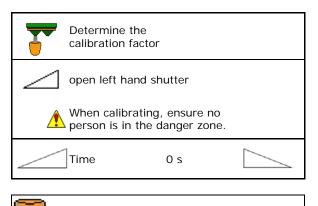
4. 🕅 s

 Set the delivery system to Position 10 on the left side.



5. Open the left slide gate

→ During calibration, the terminal indicates the calibration time in seconds.



Wait until collection bucket is

full

- 6. As soon as the collection bucket is full, close the shutter to the left.
- Weigh the collected amount (take account of the weight of the collection bucket).
- 8. Enter amount of weighed fertiliser, pay attention to the units.

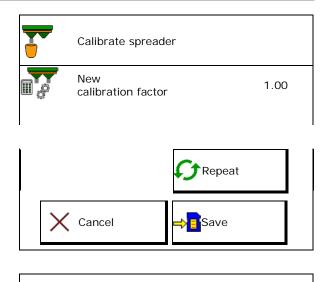




Table of Contents

- The new calibration factor will be displayed. \rightarrow
- 9. Save the new calibration factor, abort calibration,

repeat the calibration with the new calibration factor.



Delivery system

Config. border spreading

Config. boundary spreading

10. Correct the settings.



Select the fertiliser menu,

Delivery system: enter the position from the setting chart for the special spreading material.

- 11. With manual adjustment of the delivery system: Set the delivery system on the left according to the setting chart.
- 12. Remove the calibration chute.

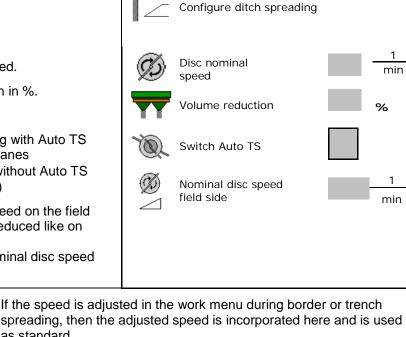
7.5 Border, boundary and ditch spreading configuration

as standard.

When carrying out a type of boundary spreading, the values are entered automatically.

Values according to details in the setting chart.

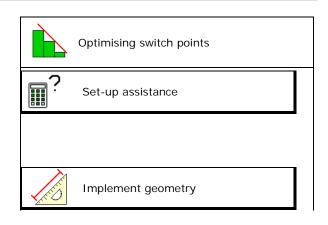
- Enter the nominal disc speed.
- Enter the quantity reduction in %.
- Switch Auto TS
 - ☑ Boundary spreading with Auto TS 0 boundary spreading vanes
 - Border spreading without Auto TS 0 (X in the setting chart)
- Hydro: the nominal disc speed on the field side will be automatically reduced like on the boundary side. However, the field side nominal disc speed can be changed.





7.6 Optimising switch points

- Set-up assistance
 - o Select the set-up assistance for the switch-on point or the switch-off point.
 - o Select too early or too late switching.
- Show the implement geometry



7.6.1 Set-up assistance

- 1. Enter the route which should be switched off too early/too late.
- 2. Enter the driving speed (only for time-based adjustment).
- → When switching the implement, the entered speed should be maintained.
- → New implement geometry and on/off point delays will be calculated.
- Show new implement geometry
- 3. [➡] Save the settings or Cancel.

₩	Optimising the switch-on point	
₩	Machine is switched on too early, by:	m
۲	Driving speed	km/h
AND	Implement geometry	
×	Cancel	

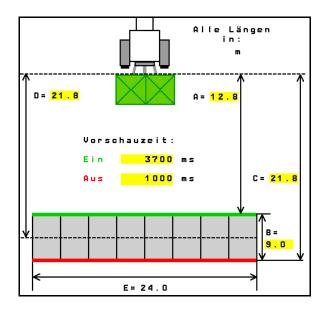


7.6.1.1 Device geometry

Displaying the implement geometry is important in case the control terminal does not automatically adopt the changed values.

In this case, after optimising the seitch points, the changed values must be manually entered in the GPS menu.

The changed values are marked in yellow.





8 User profile



- Enter the name of the user
- Configure key assignment (see page 27)
- Configure the multi-functional display in the Work menu (see page 29).
- Enter alarm limit for residual quantity in kg (fertiliser spreader with low level alarm).
- → There is an acoustic warning when the residual fertiliser quantity is reached.
- Enter the quantity increment for increasing or reducing the spreading quantity.
- Show the floor belt speed in the work menu (ZG-TS).
 - o \square Show message
 - o Do not show message
- Slope counter-steering in automatic mode.
 - o Automatic steering against the slope
 - o Manual steering against the slope using the function keys.
- Reverse driving detection
 - o ⊠yes
 - o 🗆 no
- Configure ISOBUS, see page 30.
- Im Menü Arbeit Hinweis einblenden, wenn Behälter leer (Leermelder muss vorhanden sein).
 - o Ø Show message
 - o Do not show message

	User profile	
	Configure key assignme	nt
	Configure multi-function display	al
	Fill level alarm limit	kg
+/-	Quantity increment	%
A	Show floor belt speed	
0/4	slope counter-steering	
4 6		

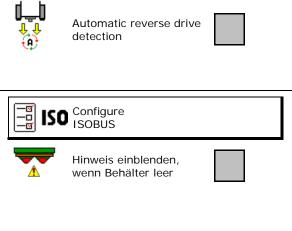
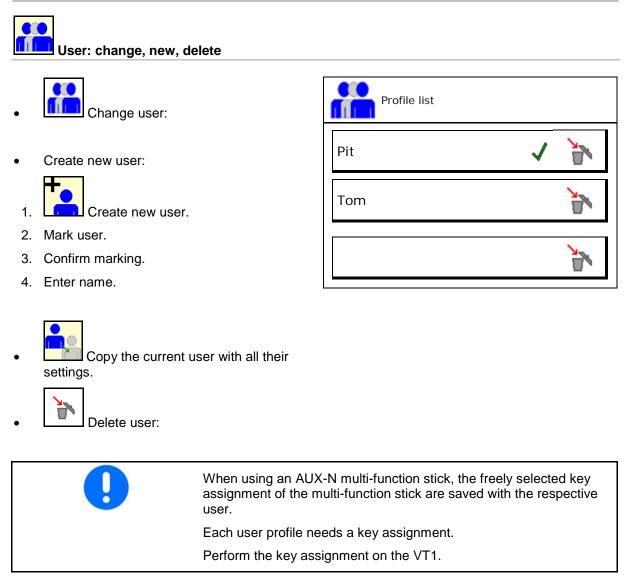


Table of Contents





8.1 Configure key assignment

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

- Free key assignment
 - ☑ Freely assignable key assignment 0
 - □ Standard assignment of the keys 0

Perform key assignment:

- 1. Call up list of the functions.
- Functions which have already been select- \rightarrow ed are greyed out.
- 2. Select function.



- 3. 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.



→ Save the settings or

X cancel.

- Multiple use is possible. 0
- All of the functions do not need to be 0 assigned.

Function field without function.

Call up the list of functions \rightarrow

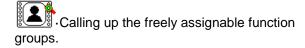
Configure key assignment	
Free key assignment	
Select the desired function from the list and press the desired button.	n
Empty / delete function	
Cancel	

empty / delete function
Spreading discs on / off
Shutter both sides
Shutter right / left
Switch right boom part width sections on / off
Switch left off boom part width section on / off
Amount both sides + / -
Amount both sides 100%
Amount right + / -
Amount left + / -
• • •



Table of Contents

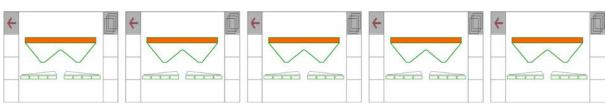
Work menu:



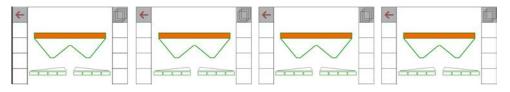
Example: for freely assignable functions 1 to 30, 32 in the Work menu

Page 1Page 2Page 3Page 4Page 5

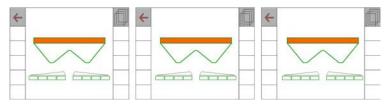
8 key terminal:



10 key terminal:



12 key terminal:



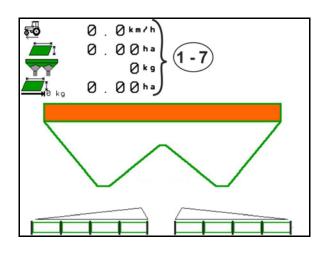


8.2 Configuring the multi-functional display

Six different data sets can be shown in the data lines in the Work menu.

- (1) Current speed
- (2) Worked area per day
- (3) Spread quantity per day
- (4) Remaining distance until hopper is empty
- (5) Remaining area until hopper is empty
- (6) Distance counter for the headlands to locate the next tramline.
- (7) Spreading disc nominal speed

The distance counter is set to zero when closing the shutter at the headlands and starts measuring the distance until the shutter is opened.



Configuring the multi-functional display		
	Line 1	
	Area/day	I
	Line 2	
	Speed	60
	Line 3	
	Area remaining	T kc

Table of Contents

8.3 Configure the ISOBUS

- Select the terminal, see page **31**.
- Switching the Section Control to Manual/Automatic
 - o In the GPS menu

Section Control is switched in the GPS menu.

o In the work menu (recommended setting)

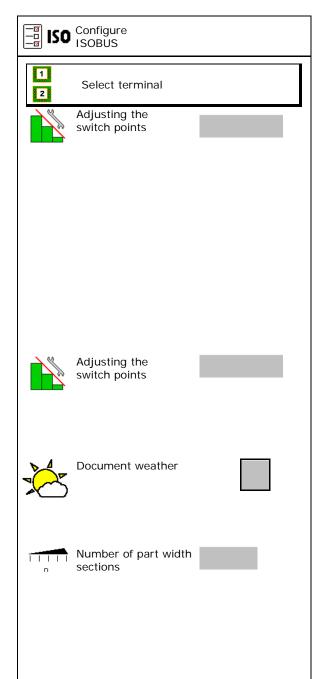
Section Control is switched in the ISOBUS Work menu.

Section Control Manual/Automatic

- Adjusting the switch points
 - o Distance-based (terminal supports working length)
 - o Time-based (terminal does not support working length)
- Document weather (only if job management is activated in the TaskController)
 - o 🗹 Yes
 - о **П No**
- Enter any number of part width sections. (maximum number of part width sections depends on the control terminal)

The maximum number of part width sections depends on the equipment.

Hydro: infinitely variable part width section control with Section Control.





Selecting the terminal

If 2 control terminals are connected to the ISOBUS, one terminal can be selected for displaying.

- Select the terminal for implement operation
 - o 01 Amazone
 - o 02 other terminal
- Select terminal for documentation and Section Control
 - o 01 Amazone
 - o 02 other terminal
- 1. Select new terminal.



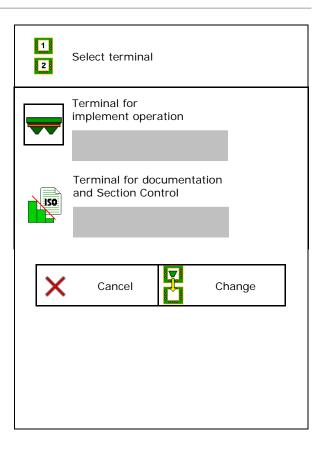
Change the terminal for displaying.



2.

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

If the terminal entered is not found after this time, the ISOBUS logs onto another terminal.





9 Configure implement



- Add fertiliser (see page 34).
- Weighing spreader: Tare the spreader, e.g. after the mounting of speacial equipment see page 36).
- Weighing spreader: adjust the spreader, e.g. after filling (see page **36**).
- Empty the hopper after use and before cleaning (see page 35).
- Weighing spreader: select calibration method on the field.
 - o Offline
- → Determination of the fertiliser calibration factor when beginning to spread.
 - o Online scale
- → Continuous determination of the fertiliser calibration factor while spreading via weighing technology.
- Fertiliser filling level kg (not for fertiliser spreader with weighing technology).
- Configure the signal source for speed (see page 37).
- Alignment of spreader with tilt sensor, see page 38.
- Service spreader, see page 38.
- Configuring ArgusTwin, see page 38.





- WindControl configuration, see page 39.
- FlowCheck configuration, see page 39.
- Call up the setup menu, only for customer service, see page 42

 WindControl

 FlowCheck

 Image: Setup



9.1 Refill fertiliser

Refill fertiliser.

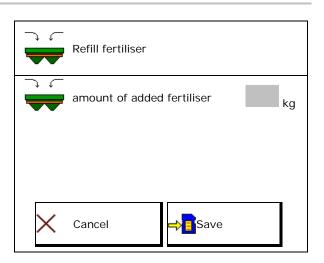
Fertiliser spreader without weighing technology:

 \rightarrow Enter amount of added fertiliser in kg and store.

Fertiliser spreader with weighing technology:

→ Added quantity of fertiliser is displayed in kg.

Store added quantity of fertiliser.



Mit Rechenfunktion

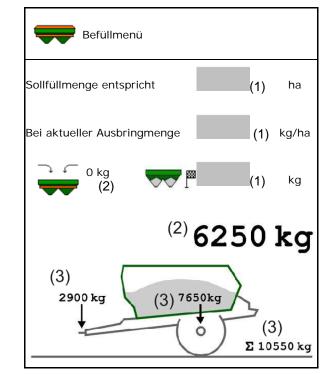
- (1) Theoretische Werte zur Berechnung
- Fläche die mit der Sollfüllmenge bearbeitet werden kann
- Ausbringmenge für Berechnung



(2) Tatsächliche Werte



- Nachgefüllte Menge
- Gesamtfüllstand
- (3) Aus den tatsächlichen Werte berechnete Werte
- Stützlast
- Achslast
- Gesamtgewicht



Die blinkende Streufächerbeleuchtung zeigt an, dass beim Befüllen der Sollfüllstand fast erreicht ist.

- 500 kg unter Sollfüllstand: Langsames Blinken
- 100 kg unter Sollfüllstand: Schnelles Blinken
- Sollfüllstand erreicht: Dauerlicht



9.2 Emptying the fertiliser hopper

The remaining fertiliser in the hopper can be emptied via the hopper tips.

ZA-TS with a mechanical spreading disc drive: Empty residue on left and right separately.

1. Turn the spreader disc by hand so that the hole in the spreader disc is pointing inwards, directly under the opening on the hopper.



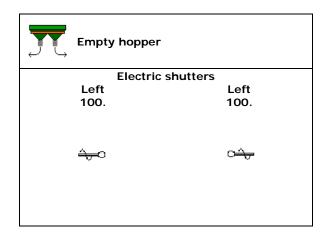


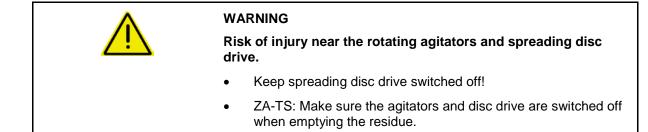
3. _____, ____ run agitator shaft if required. Keep the function field pressed.

 \rightarrow Residual fertiliser runs out.



- Display 0 Shutter closed
- Display 100 Shutter open







Taring the fertiliser spreader serves to determine the weight of the spreader with 0 kg hopper contents.

The fill quantity of the empty tank displayed must be 0 kg.

It is necessary to tare it:

- before initial use
- after installing special accessories
- 1. Completely empty the fertiliser spreader.
- 2. Wait until the A symbol turns off.
- 3. Tare spreader.
- \rightarrow Fertiliser fill level is displayed at 0 kg.



9.4 Weighing spreader: adjusting the fertiliser spreader

Adjusting the fertiliser spreader serves to correct the scale with a full hopper (Parameter 2).

Adjustment is necessary if the wrong hopper content is displayed after filling.

- L The fertiliser spreader must be tared.
- 1. Fill the fertiliser spreader.

The filling quantity must be known.

- 2. Wait until the symbol turns off.
- 3. Adjust the spreader.
- 4. Enter the correct hopper content.
- \rightarrow New Parameter 2 will be displayed.

Adjust the scale	
Measured hopper content	xxx kg
Correct hopper content	kg
Scale parameter	- 2:
Old:	New:
X Cancel	⇒ <mark>∎</mark> Save





9.5 Speed signal source

There are different sources for the forward speed signal input.

- Radar (ISOBUS)
- Wheel (ISOBUS), e.g., tractor wheel
- Wheel (implement), e.g., implement towed with wheel
- Satellite (NMEA2000)
- Satellite (J1939)
- Simulated
- → After selecting the speed, enter the value for the simulated speed.

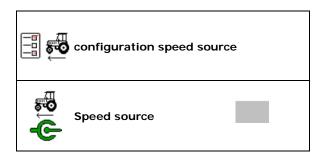
Entering a simulated speed allows you to continue spreading even if the speed signal from the tractor fails.

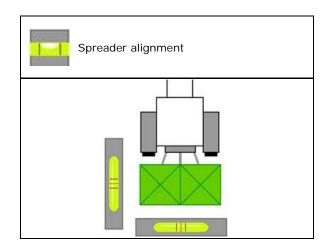
9.6 Spreader alignment

- 1. Position the mounted fertiliser spreader on a level surface.
- 2. Align the fertiliser spreader horizontally using the top link for the longitudinal direction and the lifting struts of the lower link for the transverse direction.



The fertiliser spreader is aligned when the red lines are in the middle.



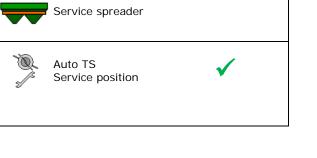




9.7 Service spreader

Necessary to make it easier to exchange the spreader disc units TS1, TS 2, TS3

- 1. Put Auto TS in a voltage-free middle position.
- \rightarrow \checkmark Auto TS display is in the centre position
- 2. Auto TS returns to its original position

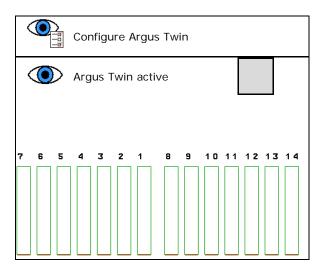


9.8 Configuring ArgusTwin

- ArgusTwin active
 - ☑ ArgusTwin active (the position of the drop-point position is controlled via ArgusTwin)
 - ArgusTwin not active (the drop-point position remains in the set position)

Sensor display:

During spreading, the measured values for the sensors are displayed.





9.9 WindControl configuration

- WindControl active
 - o Ø WindControl active

WindControl regulates the position of the delivery system through Argus

o UWindControl not active

When Argus is deactivated, WindControl must also be deactivated

- Wind sensor automatic folding active
 - o Ø Automatic folding active

Wind sensor automatically folds into transport position and operating position Wind data is displayed

- o Automatic folding not active
- Detect gusts
 - o Ø Detect gusts
 - Gusts of wind are detected, a warning is issued
 - o Do not detect gusts
- Select wind strength unit
 - o m/s (metres per second)
 - o bft (Beaufort scale wind strength 0-12)

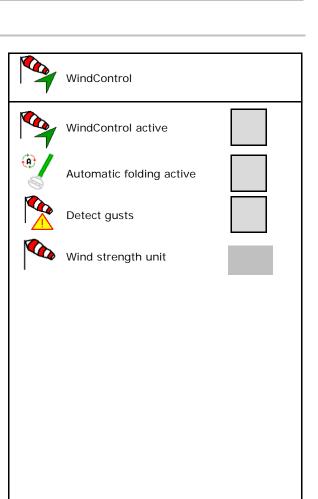
9.10 FlowCheck configuration

- Automatically eliminate blockages
 - ☑ FlowCheck detects blockages and eliminates them by moving the shutter back and forth
 - o D FlowCheck not active
- Enter alarm limit for residual fertiliser

FlowCheck is not active below the alarm limit.

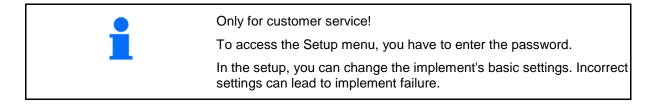
Hopper empty message is issued.

 Tolerance for detecting blockages (default value 40%)



	FlowCheck
	Eliminate blockages automat-
	alarm limit kg
\frown	Tolerance %

9.11 Setup menu





10 Mobile fertiliser test rig





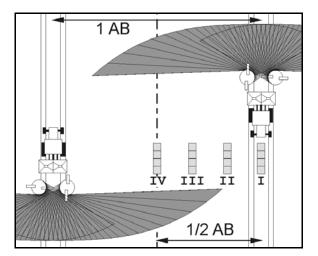
→

Select Mobile test rig in the Main menu.

Start mobile fertiliser test rig as explained in the mobile test rig operating manual and estimate the lateral distribution.

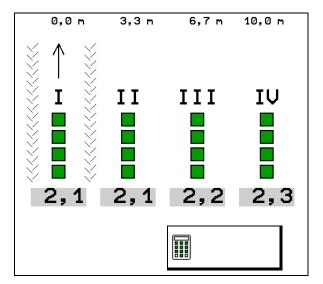


For each test series, successively fill the quantities of fertiliser into the measuring cup from each of the four collection trays in their four setup positions (I, II, III, IV) and enter the number of scale lines at the terminal.



The distances between the fertiliser collection trays are displayed depending on the working width.

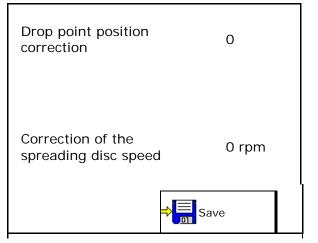
- 1. Enter the number of scale lines for fertiliser level **I to IV**.
- 2.
 - Calculate the new adjustment value.
- 3. Perform the adjustment after calculating the setting value.



• The inlet system position selected in order to correct the computed difference, see fertiliser menu.

ArgusTwin: the changed throwing direction is calculated and automatically adopted.

- Correct the spreading disc speed by the difference calculated, see fertiliser menu.
- 4. Save the value calculated and return to the main menu.





The corrected values

- will be stored in the Fertiliser menu,
- will be automatically adjusted (with hydraulic spreading disc drive, electrical adjustment of the delivery system),
- must be adjusted (with mechanical spreading disc drive, manual adjustment of the delivery system).

11 Info menu



- MIN Implement identity number
- Display the softkey number in the menus.
 In addition, the error memory function field appears
- Display the work data

Info			
	MIN: ZA 000	00000	
Display Soft	t key numbers		
Total area spread		0	ha
Total quantity spread 0		1	
Total work time 0		h	
Driven distance in:			
Transportation position			km
Working position		km	
Hydraulic system Basis	xxxxxxx xxxxxxx		

Show the software version

Error memory

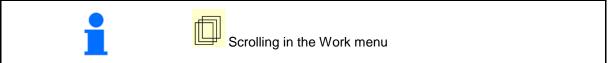
• Display of the last 50 error messages (to do so, display the numbers of the softkeys, see above).

Error memory ECU operating hours: 00:00				
	No.	Error code	Operation. hours	
	00	F10000	00:00	
	00	F10000	00:00	
	00	F10000	00:00	



12 Application on the field

i	Select Work menu in the main menu!
1	If the work menu is left while working, then after 10 seconds, it auto- matically changes back to the work menu.
1	 Weighing spreader: Carry out an automatic fertiliser calibration or switch on the online calibration when you start spreading. Tare the spreader before initial use and after fitting special equipment (see page 36).
1	 Before the spreader can be used, the following information must be entered: Enter the fertiliser data from the setting chart in the fertiliser menu (see page 32). Load and start job (see page 12). Calibrate fertiliser at standstill or enter calibration value manually (see page 12).





12.1 Functions in the Work menu

-			Refill fertiliser
			Both shutters open / shut
			Shutter open / shut left right
_		ا ا	Reduce the spread rate on one side by application rate increment left right
—		+	Increase the spread rate on one side by application rate increment left right
—		+	Increase the spread rate on both sides by application rate increment reduce increase
	100%		Adjust the spread rate on both sides to the target quantity
	kg		Calibration travel
			Turn to the next page
	←		Back to the top menu structure
			Spreading discs on / off (keep pressed for 3 seconds)
Ø3 +		Ś	Border spreading speed increase reduce
			Trench spreading on / off left right
			Boundary spreading on / off left right
			Border spreading on / off left right
			Switch on boom part width sections left right
			Switch off boom part width sections left right
	<u>(</u>		Section Control on / off

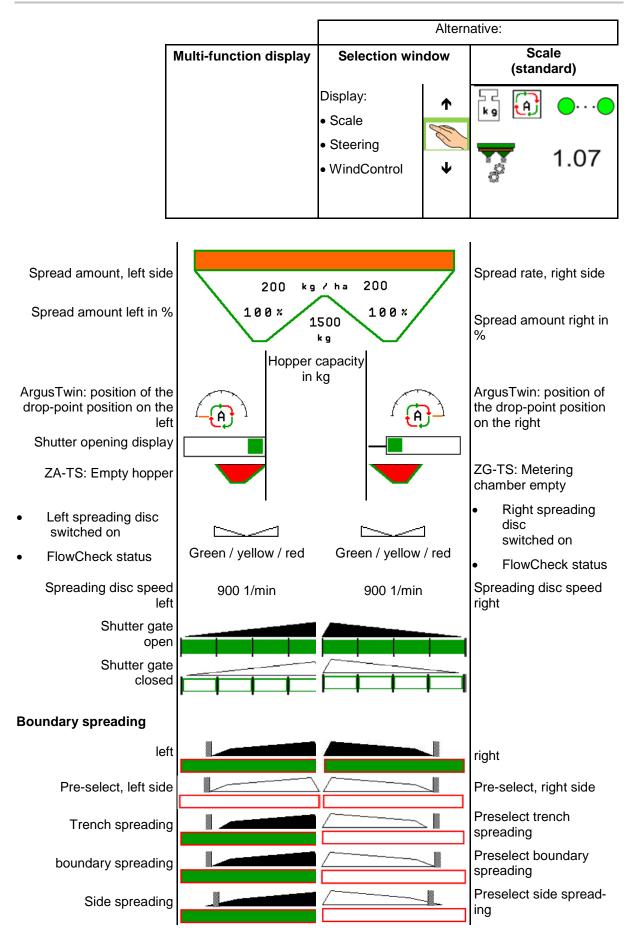


Table of Contents

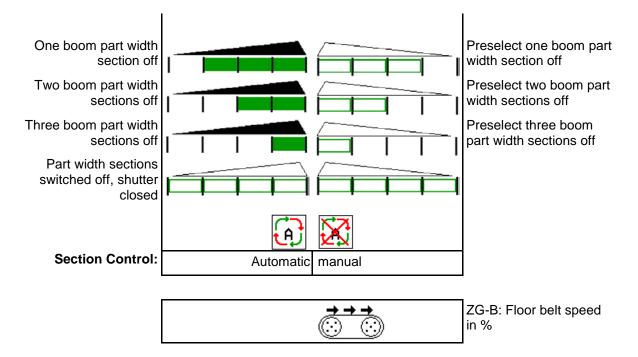
AutoTrail steering axle Automatic/manual, slope counter-steering, centre position
Folding the WindControl wind sensor
Work lights



12.2 Display Work menu

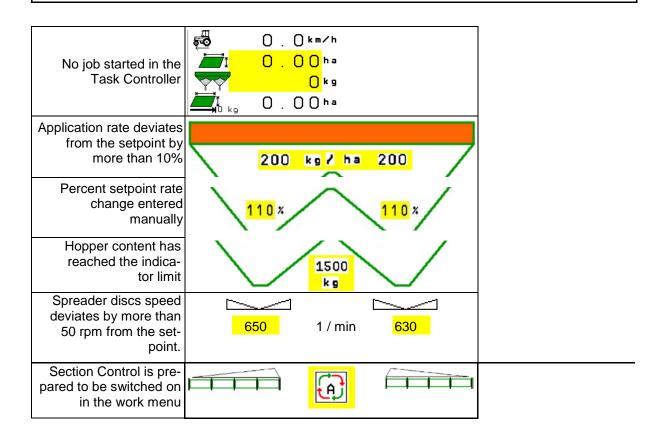






12.3 Special instructions in the work menu

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



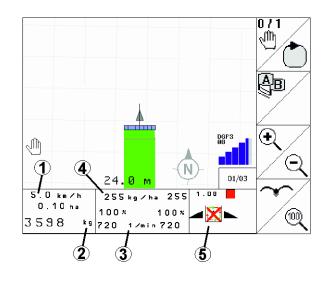


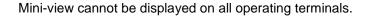
12.4 Mini-view in Section Control

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

- (1) The first two rows of the multi-functional display
- (2) Fill level in kg
- (3) Spreader discs speed
- (4) Actual spread rate
- (5) Section Control, Fertiliser calibration
 Spreading mode (yellow when overriding Section Control)

Notes are also shown in the miniviews.







12.5 Calibration on the field



For the desired target rate to be spread, the entries from calibration on the field must be made in the Fertiliser menu.

12.5.1 Online calibration with weighing technology (scale)

The calibration value is continuously recalculated via online weighing and the theoretically applied quantity. The required shutter position is adjusted online.

Select the desired calibration method in the Configure implement menu.

Display in the Work menu:

- (1) Current calibration factor
- (2) Online calibration active
- (3) Online calibration switched off

Online calibration can only be started when the scale is at rest and with hopper content greater than 200 kg.

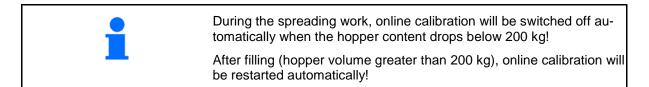
If the symbol Appears in the display, the spreader is not at rest.

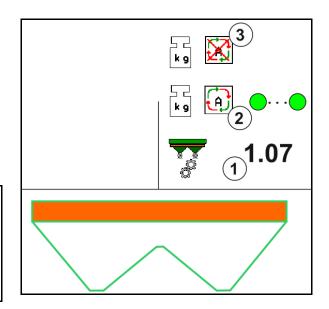
When working on hilly terrain or if the ground conditions are not level, system-induced fluctuations in determination of weight can occur:

In this case switch off online calibration during the run.



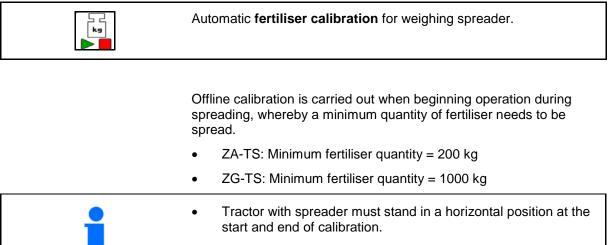
- Interruption of the online calibration is indicated.
- → Spreading will continue with the displayed calibration factor.







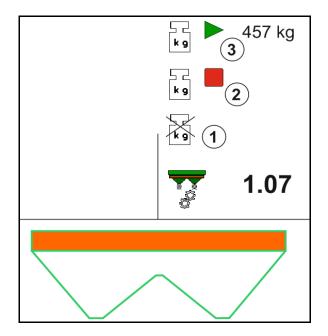
12.5.2 Offline calibration during a calibration run



- The calibration factor can only be started and ended when the scale is at rest.
- \rightarrow If the symbol \bigwedge appears in the display, the spreader is not in resting position.

Select the desired calibration method in the Configure implement menu.

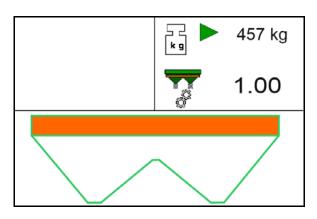
- (1) Fertiliser spreader not in resting position, weighing not possible
- (2) Offline calibration complete
- (3) Offline calibration started with display of the fertiliser quantity spread until then.



1. Select Work menu.

⊐ d kg

- 2. **Start automatic calibration**.
- 3. Start spreading as usual and spread the minimum quantity of fertiliser.
- → Calibration is indicated with a green triangle.
- → The quantity of fertiliser spread during calibration will be displayed.





- \rightarrow A green checkmark signals that the minimum amount has been reached.
- 4. When the minimum amount of fertiliser has been spread, close the shutter and stop.



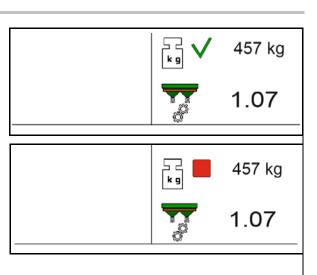
5. End automatic calibration.

- → Calibration end is indicated with a red square.
- \rightarrow The new calibration factor will be displayed.
- \rightarrow The new calibration factor will be displayed.
- 6. Store the calibration factor or abort calibration.
- 7. Resume spreading.

A calibration run can be performed at any time during operation to optimise the calibration factor.



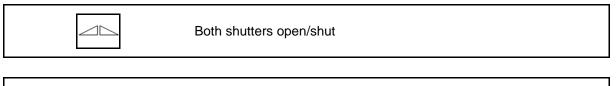
After the first fertiliser calibration, additional calibrations should be performed with higher application rates (e.g. ZA-TS: 1000 kg, ZG-TS: 2500 kg) to further optimise the calibration factor.

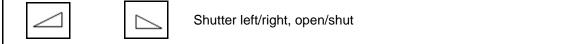




12.6 Description of the functions in the Work menu

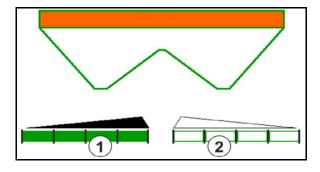
12.6.1 Shutter



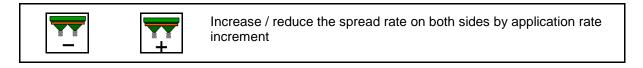


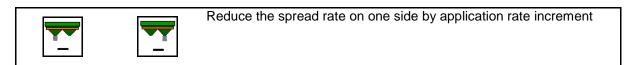
Open shutter before use,

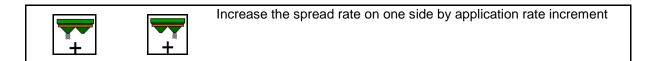
- and drive off
- once the spreading discs have reached the correct speed.
- (1) Display shutter left side open.
- (2) Display shutter right side closed.

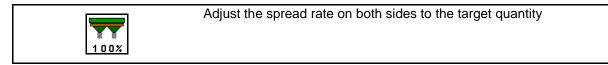


12.6.2 Changing the spread rate while spreading

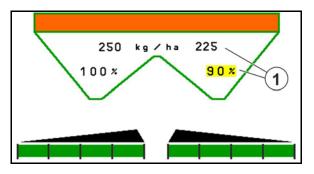




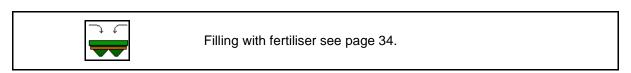




- Each press of the key changes the spread amount by the rate increment (e.g. 10%).
- Enter the rate increment in the Machine Data menu.
- (1) Display changed spread rate in kg/ha and percent.



12.6.3 Refill fertiliser



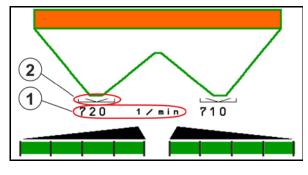
12.6.4 Hydro: Switching spreading disc drive on and off

(2) B × 1	Spreading discs on/off

To switch on, press the key for at least three seconds until the tone stops.

The spreader discs operate at the speed entered in the Machine data menu

- (1) Display spreading disc speed
- (2) Display spreading discs, switched on



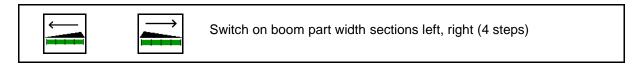


WARNING

Risk of injury from the rotating discs. Keep people away from the discs.



12.6.5 Boom part width sections



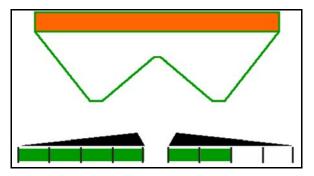


Switch off boom part width sections left, right (4 steps)

Display two right-hand boom part width sections switched off.

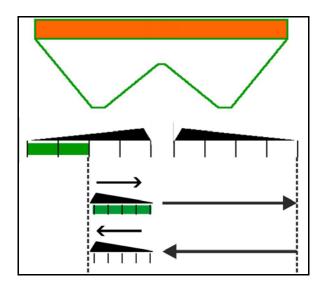


The boom width can be reduced when the shutters are closed.

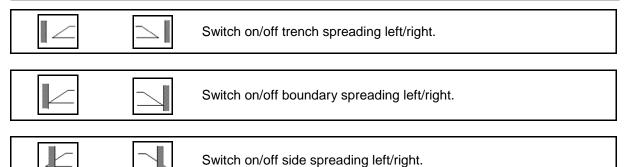


Display 6 right-hand boom part width sections switched off.

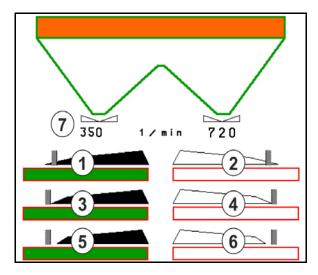
For wedge shaped field spreading, all of the part width sections can be switched on or off from one side to the other.



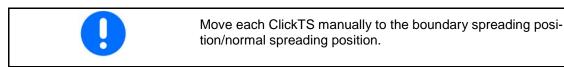
12.6.6 Boundary spreading



- (1) Display border spreading, switched on
- (2) Display border spreading, preselected
- (3) Display boundary spreading, switched on.
- (4) Display boundary spreading, preselected.
- (5) Display trench spreading, switched on
- (6) Display trench spreading, preselected
- (7) Display reduced spreading disc speed

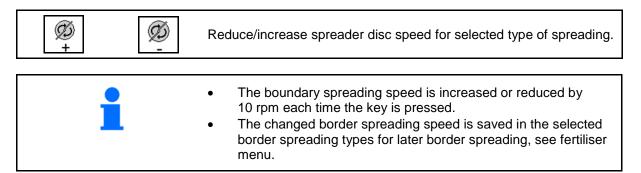


•	When using the boundary spreading procedure, the switching of indi- vidual boom part width sections using the Section Control is overrid- den.
1	 For border and trench spreading, enter the data according to the setting chart in the Machine Data menu: Border side volume reduction. Border side speed reduction Boundary spreading can be selected when the shutters are closed. If the shutters are opened with boundary spreading switched on, a warning tone is issued.





Hydraulic spreader disc drive





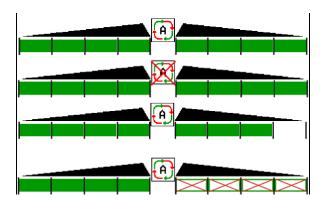
12.6.7 Switching Section Control (GPS control)

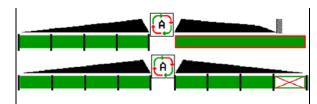
A A	Switching Section Control on and off
	The terminal must be equipped with Section Control. Section Control must be switched on through the terminal application.
	WARNING Risk of personal injury and environmental damage in the ejection area of the fertiliser spreader by fertiliser particles being unintentionally ejected.
	Use of Section Control on fertiliser spreaders is only permitted inside the defined field boundaries.
	CAUTION Unintentional fertiliser spreading with Section Control. Always work with boundary spreading equipment at the boundary. The boundary spreading equipment overrides the Section Control.
	 Information for Section Control: For safety reasons, define the field boundary after the first field perimeter drive. Section Control can always be overridden by: manual part width section control. boundary spreading closing the shutter Switch the Section Control on at the terminal first. Then switch the Section Control on at the fertiliser spreader! The spreading disc must be rotating for the Automatic mode. The spreader discs operate at the speed entered in the Machine data menu.



Display:

- Section Control switched on (Automatic mode)
- Section Control switched off (Manual mode)
- Section Control switched on one part width section switched off by Section Control
- Section Control overridden by closing the shutter manually.
- Section Control overridden by right boundary spreading equipment
- Section Control overridden by manual switching of the part width section.







Mechanical spreading disc drive:

- \rightarrow Section Control actuates a maximum of 8/16 part width sections. Hydraulic spreading disc drive:
- \rightarrow Section Control actuates the part width sections infinitely.

12.6.8 AutoTrail steering axle

	Automatic / Manual operation
${\ominus} \vdash {\ominus}$	Manual steering (manual mode) / Steering against the slope (au- tomatic)
	Take to centre position
	Lock the axle in transport position (switch to road travel mode)
/:\⇔₫	Unlock the axle (switch to field mode)

^	DANGER
	Danger of accident!
	Automatic mode and manual mode are forbidden when driving on roads.
	\rightarrow The axle must be locked when driving on roads.
	Automatic mode is forbidden when manoeuvring.
	\rightarrow Manoeuvre in manual mode.





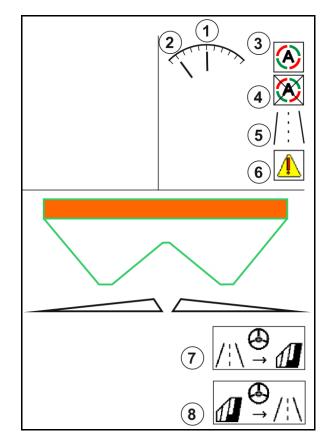
DANGER

Risk of the implement tipping over when the steering axle is pushed in; particularly on very uneven or sloping terrain!

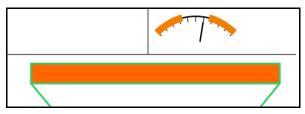
Adapt your driving technique accordingly and reduce speed when performing a turning manoeuvre on a headland, so that you are in complete control of the tractor and implement.

Display in the Work menu:

- (1) Axle in straight position
- when driving on roads
- when driving straight ahead on the field
- (2) Axle repositioned
- when driving in curves on the field
- when driving on slopes
- (3) AutoTrail in automatic mode
- (4) AutoTrail in manual mode
- (5) AutoTrail in road mode, steering locked
- (6) AutoTrail fault
- (7) Unlock the steering touchpad (from road mode to field mode)
- (8) Lock the steering touchpad in straight position (from field mode to road mode)



AutoTrail with reduced steering angle due to high forward speed



Safety-relevant error

- Manual steering possible up to 7 km/h (helpful for troubleshooting).
- Contact the dealer.



WARNING

Risk of accident due to safety-relevant AutoTrail error.

Driving on public roads is forbidden.



Mode of the AutoTrail

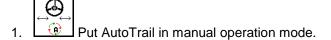
Automatic mode:



1. Put AutoTrail in automatic mode.

The implement computer ensures the precise tracking of the implement.

Manual operation mode:



- Press the \longrightarrow or \longleftarrow key until the tyres of the machine are
- exactly in the tractor's tracks again.



 $\xrightarrow{}$ Centre position is approached as soon as the speed is greater than 0.

The function field for manual steering in automatic mode is only intended for the precise tracking, for example, on slopes.

Exception when reverse driving detection is active (Profile menu):

When driving in reverse in automatic mode, the implement is moved once to the centre position. After that, the implement can be steered manually.

Variations for AutoTrail on slopes (can be set in Profile/steering)

10

AutoTrail with automatic slope counter-steering and tilt measurement using sensors.

• If there is lateral tilt, the sprayer is automatically counter-steered up the slope.

$$\bigcirc \rightarrow \vdash \bigcirc$$

_, ____ The slope correction intensity can be adjusted.

A correction factor (values from 0-20) is shown for this purpose.

- o Value 0 for normal steering against the slope.
- o Value 20 for maximum steering against the slope.





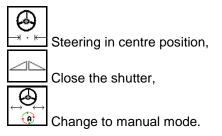
AutoTrail with manual slope counter-steering via key actuation on the control panel.



For manual steering against the slope.

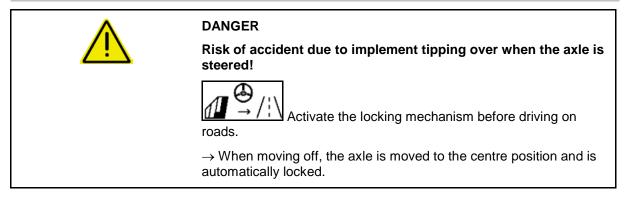
The pilot control for steering against the slope is shown as a red area.

o If the following functions are carried out then the manual slope correction is reset.



Driving in reverse with reverse driving detection

Transportation - Street mode



12.6.9 ArgusTwin (optional)

ArgusTwin constantly measures and regulates the throwing direction of the fertiliser spreader to optimise the lateral distribution.

The actual throwing direction is compared to the target values. If there are deviations, the position of the delivery system will be adjusted.

The target throwing direction is taken from the setting chart or determined using the mobile test rig.

If the measured values from the sensors are not sufficient to correctly determine the spreading direction, Argus will be deactivated.

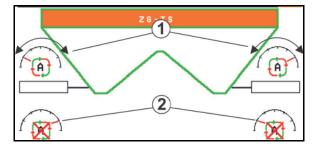
May be caused by soiled sensors or a spread rate that is too slow.

- Clean sensors or refill hopper.
- (1) ArgusTwin is activated in the fertiliser menu.

The constantly changing position of the delivery system is displayed.

(2) ArgusTwin is not activated in the fertiliser menu.

The set position of the delivery system is displayed.

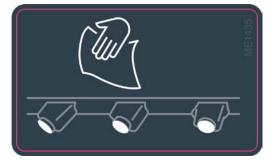




Faulty fertilising due to soiled radar sensors of the Argus system!

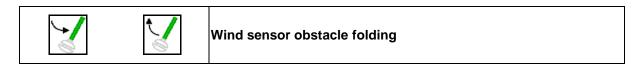
Strong or uneven dirt accumulations can prevent Argus from properly regulating the delivery system, and the crops are then over- or under-fertilised in strips.

- Depending on the operating conditions, check the radar sensors regularly for strong or uneven dirt accumulations.
- Clean the radar sensors if necessary.





12.6.10 WindControl



- WindControl can only be used in combination with ArgusTwin, • ArgusTwin does not need to be active.
- Spreading discs TS 2 or TS 3 must be installed.
- Prerequisite for folding the wind sensor: Forward speed less • than 3 km/h.
- The wind sensor is automatically folded into operating position as soon as the spreading discs start rotating.
- The wind sensor is automatically folded into transport position as . soon as the spreading discs stop rotating.





To avoid obstacles, press the touchpad up to the end position.

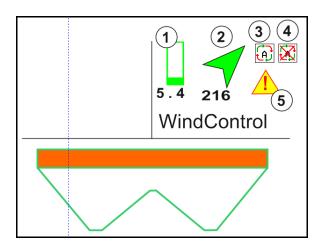


Before using WindControl, check that the throw distance parameter is correctly entered.

- (1) Wind speed display
- (2) Wind direction display
- (3) Automatic mode WindControl regulation active
- (4) WindControl is not active, wind data are displayed.
- (5) Strong wind, interrupt work

Wind data shown in colours:

- Green WindControl can compensate for wind effects
- Yellow WindControl can compensate for wind effects within the limits
- Red WindControl has reached the set limits. It is better to stop working.



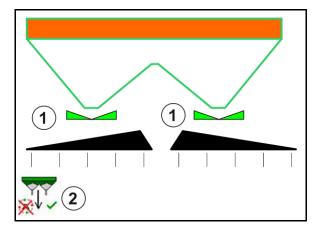


12.6.11 FlowCheck

FlowCheck detects insufficient fertiliser outflow and blockages in the hopper.

- (1) During operation, FlowCheck is represented by the coloured spreading disc symbols.
- Green No deficiencies detected in the flow behaviour of the fertiliser.
- Yellow Insufficient flow behaviour was detected and an attempt is being made to correct this.
- Red Fertiliser flow behaviour is insufficient.
 - \rightarrow Stop working.
 - \rightarrow Eliminate the blockage.
- (2) FlowCheck display is switched off





Automatic / manual switching of the spread fan lighting
Maintenance lighting on / off
Hopper interior lighting on / off

	 The automatic spread fan lighting will be switched on as soon as the spreading discs rotate.
_	• The maintenance lighting consists of the fertiliser pre-chamber and the spreading disc lighting.



12.7 Procedure for use

12.7.1 Use of fertiliser spreader with mechanical spreading disc drive

- 1. Select fertiliser menu on the ISOBUS terminal:
 - o Enter the data according to the setting chart.
 - o No weighing spreader: carry out fertiliser calibration.
- 2. Select Work menu in the ISOBUS terminal.
- 3. Set the power take-off speed (see setting chart).

kg

- 4. Move off and open both shutters
- 5. Weighing spreader
 - o Start with a calibration travel
 - or

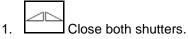
Perform online calibration (switch on in Machine Data menu).
 If starting with boundary, trench or border spreading:



field edge (left / right), and switch on.

- → During spreading, the terminal shows the Work menu. All the settings required for spreading should be entered here.
- \rightarrow The calculated data is stored for the current job.

After use:



2. Switch off power take-off.



12.7.2 Use of fertiliser spreader with hydraulic spreading disc drive

- 1. Select fertiliser menu on the ISOBUS terminal:
 - o Enter the data according to the setting chart.
 - o No weighing spreader: carry out fertiliser calibration.
- 2. Select Work menu in the ISOBUS terminal.
- 3. Actuate tractor control unit *red* to supply the control block with hydraulic fluid.



- 4. Switch on spreading discs.
- 5. Move off and open the shutters
- 6. Weighing spreader:
 - o Start with a calibration travel
 - or
 - o Perform online calibration (switch on in Machine Data menu).
- 7. If starting with boundary, trench or border spreading:



edge of the field (left / right), and switch on.

- → During spreading, the terminal shows the Work menu. All the settings required for spreading should be entered here.
- \rightarrow The calculated data is stored for the current job.

After use:

1. Close both shutters.



2. Switch off spreading discs.

3. Actuate tractor control unit *red* to stop the hydraulic fluid supply to the control block.

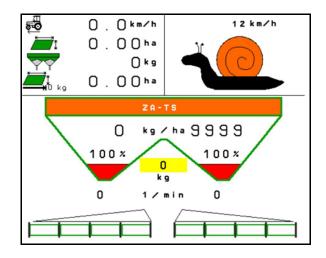


12.7.2.1 Procedure when spreading fine special spreading material

The fine special spreading material mode and the intended forward speed are displayed in the work menu.

For this purpose, in the fertiliser menu:

- select fine special spreading material.
- calibrate special spreading material



- 1. Select Work menu in the ISOBUS terminal.
- 2. Set the spreading disc speed (as specified in the setting chart).
- 3. Move off and open both shutters
- 4. Reach the intended speed quickly () and maintain this speed during the spreading.



5. ZG-TS: Actuate the floor belt if necessary. Continue pressing the button until there is sufficient spreading material in the pre-chamber.



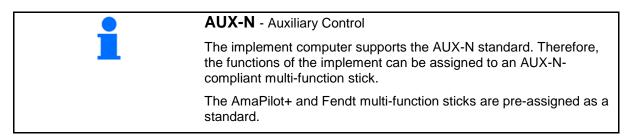
WARNING

Over-metering and under-metering with slug pellets.

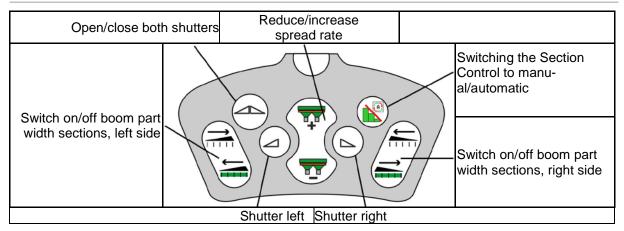
The desired application rate will only be achieved when maintaining the speed entered. A proportional speed spread rate is currently not possible.



13 AUX-N multi-function sticks



Assignment of the Fendt multi-function stick





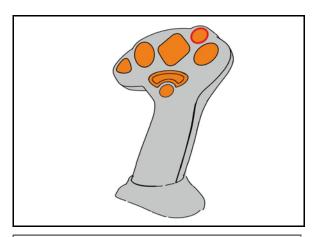
14 AmaPilot/AmaPilot+ multi-function stick

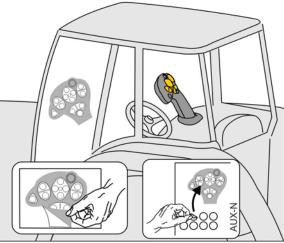
All of the implement functions can be performed using the AmaPilot and AmaPilot+.

- AmaPilot with fixed key assignment
- AmaPilot+ is an AUX-N control element with freely assignable key assignment (keys preassigned like for the AmaPilot)

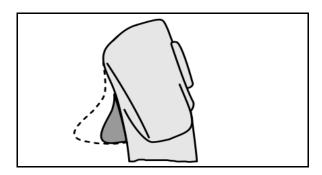
30 functions can be selected by pressing with your thumb. Two additional levels can also be switched on.

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.





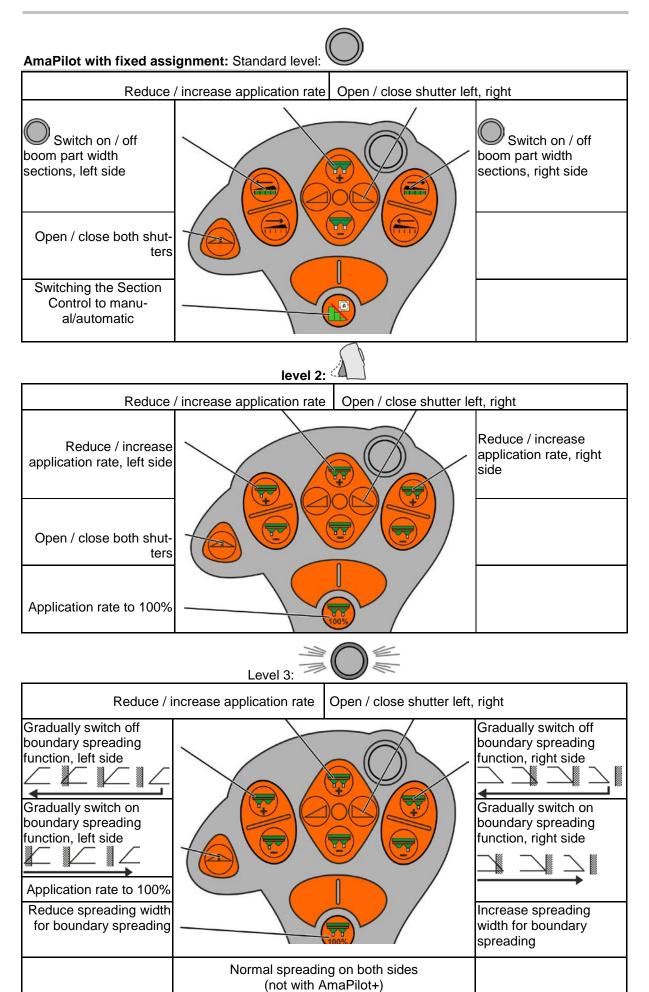
- Standard level
- Level 2 when trigger on the back is held



• Level 3 after switching the lit-up button









15 Maintenance and cleaning

15.1 Cleaning

DANGER
Do not reach into the outlet opening while operating the shut- ters! Risk of crushing!

To clean the fertiliser spreader, you must have the shutters open so the water and residual fertiliser can drain.

See Empty fertiliser hopper, page 35.

15.2 Notes on an update of the software

The settings and calibration values can be noted in the charts.



After resetting or an update of the software of the machine computer, the settings and calibration values must be r-entered.

Fertiliser menu

Name of the fertiliser	
Calibration factor	
Intended forward speed	
Set disc speed	
Spread disc	
Telescope vane	
Switch-off point	
Switch-on point	
Working width	
Special spreading materials	

Configure border spreading

Set disc speed		
Volume reduction		
Switch Auto TS		

Configure boundary spreading

Set disc speed		
Volume reduction		
Switch Auto TS		

Configure ditch spreading

Set disc speed		
Volume reduction		
Switch Auto TS		



User profile

User name		
Fill level alarm limit		
Quantity increment		

Configure key assignment

Page 1	Page 2
Page 3	Page 4

Configure multi-function display

Line 1		
Line 2		
Line 3		
Line 4		

Configure ISOBUS

UT Number		
Documentation		
TC number		
Switch SectionControl		
Set the switch points		

Implement menu

Calibration method		
Fertiliser fill level		
Speed source		

Configure the speed source

Speed source		
Wheel imp.		
Simulated speed		



Setup/Implement settings

Spreader model					
Configure spreading disc speed					
Hydraulic drive					
Control factor					

Calibrate shutter

Calibrate position left		
Calibration position right		

Configure scale

Weigh cell		
Parameter 1		
Parameter 2		

Configure Limiter/AutoTS

Limiter/AutoTS		
Normal spreading, left side		
Normal spreading, right side		
Bound. spread.left		
Bound. spread.right		

Configure delivery system adjustment

Electrical adjustment		
Calibrate position left		
Calibration position right		

Switch-on delay, switch-off delay

Switch-on delay		
Switch-off delay		



16 Problem

16.1 Failure of the speed signal from the ISO-bus

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

This allows continuing with spreading without a speed signal.

Proceed as follows to do so:

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

16.2 Display on the control terminal

A message appears as:

- note
- warning
- alarm

The following are displayed:

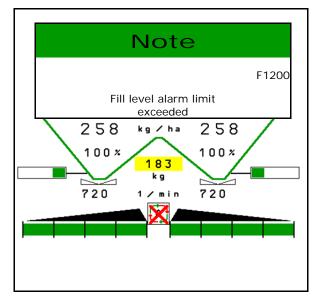
- the number of the fault
- a text message
- if applicable, the symbol of the respective menu

Configure speed source Configure speed

Warning/alarm:

ZA-TS	
Warning	
Spreading discs not turning	F35005
Please acknowledge this message	

Note:





16.3 Fault table

Number	Туре	Cause	Remedial action
	Note	The spreader has not found the expected terminal on the ISOBUS and instead of that, has logged onto another terminal.	
F35002 F36800	Note	The fill quantity that has been weighed by the weigh cell is less than the alarm limit set.	 Refill with fertiliser Adapt the fill level alarm limit in the implement settings
F35003	Alarm	The measuring value of the sensor on the left shutter does not change although the setting motor of the shutter has been switched on.	 Eliminate any damage or interruptions on the cable connector to the setting motor. Hang the shutter back into the setting motor after the calibration Replace the defective setting motor (EA380 or EA379)
F35004	Alarm	The measuring value of the sensor on the right shutter does not change although the setting motor of the shutter has been switched on.	 Eliminate any damage or interruptions on the cable connector to the setting motor. Hang the shutter back into the setting motor after the calibration Replace the defective setting motor (EA380 or EA379)
F35005	Warning	Hydro only: although the button for switching on has been pressed in the work menu, no speed can be measured on the spreading disc	 Switch on the spreader hydraulic supply Connect the hydraulic hoses correctly to the tractor Replace defective wiring harness (no voltage at hydraulic valve) Eliminate any damage or interruptions on the cable connector to the speed sensor. Replace defective speed sensor
F35006	Note		Close shutter
F35007 F36801	Note	The speed of the spreading disc deviates from the nominal speed set by at least 10%.	 Adapt the nominal speed For PTO drives: correct the speed of the PTO shaft With hydro: increase the oil supply quantity of the tractor
F35008 F36802	Note	ZG-TS only: when the shutter is open, the volt- age of the angle sensor on the fill level flap in the metering chamber is greater than 2V for at least 15 seconds.	 Refill with fertiliser Ensure for the correct floor belt drive



F35009	Note	Left filling level sensor is not actu-	Refill with fertiliser
F36803		ated	Eliminate the "fertiliser bridge" in the hopper using appropriate tools
			• Eliminate any damage or interruptions of
			the wiringReplace defective filling level sensor
F35010 F36804	Note	The weigh cell computer NI113 has marked the last weight evaluated	Wait at least 10 seconds until the weight has settled.
		as invalid. OR the weight deviates by more than 10 kg/s	 Disconnect the spreader from the ISOBUS socket and reconnect again afte 10 seconds.
			Correct the weigh cell calibration
			Replace defective weigh cell
			Replace defective weigh cell computer NI113
F35012 F36805	Note	As the online or offline calibration should have started, according to the weigh cell there is less than 500 kg in the hopper.	Refill with fertiliser
F35013	Note	The work menu has been exit when the spreading discs were still switched on.	Switch off the spreading discs
F35015	Note	When accessing the calibration menu, the left shutter was opened.	Close the left shutter in the work menu
F35016	Note	The automatic mode in Section Control was switched on for the first time.	Note to read and acknowledge
F35017	Warning	The signal from the left pressure sensor is lower than 0.3 V or higher than 4.7 V	• Eliminate damage or interruptions on the cable to the pressure sensor
			Replace the defective pressure sensor (NH085)
F35018	Warning	No messages was received from the weigh cell computer (NI113) for 2 seconds.	Rectify fault in the wiring between job computer (NI164(NI181) and weigh cell computer (NI113).
			Replace defective weigh cell computer (NI113).
F35019	Note	When accessing the calibration menu, one speed is available.	Stop the tractorSet simulated speed = 0
F35020	Note	The amount set in the calibration menu cannot be spread by the spreader.	 Reduce the application rate Reduce the speed -reduce the working width
F35021	Note	"Slug pellets" was selected as a special spreading material in the fertiliser settings.	Note to read and acknowledge
F35022	Note	The minimum fill level was not reached during the offline calibra- tion	Refill with fertiliser



Forest	Nete		
F35024	Note	The TaskController has changed the value for the Section Control state from 1 to 0. Maybe the job was terminated, or the GPS recep- tion has failed	 Start job Switch on Section Control from the terminal Ensure that there is GPS reception
F35025 F36806	Note	During the online calibration, the new calibration factor calculated was above 1.4 and below 0.6 five times	 Remove the blockage on the shutter Calibrate the fertiliser Calibrate offline Re-calibrate the weigh cell Set the special spreading material, rice
F35026	Note	User is trying to switch on Section- Control, but the die requirements have not been fulfilled.	 Switch on spreading discs Switch on the the terminal's Section Control
F35027	Note	Calibration value is outside the limit	Check the value
F35028	Warning	The weather station is no longer sending any data to the implement bus.	 Contact the Service Department Check the weather station wiring harness Replace the weather station
F35029	Alarm	The voltage of the angle sensor on the cleaning hood is greater than 4.5 V or less than 0.5 V	Eliminate any damage of the wiringReplace defective angle sensor
F35030	Alarm	The voltage of the angle sensor on the cleaning hood is greater than 1.6 V	 Close cleaning hood Align the booms on the sensor correctly Position the sensor correctly
F35031	Warning	No messages are received by the drop-point system adjustment ma- chine computer (NI125).	 rectify the fault in the wiring between the job computer (NI164) and drop-point system adjustment machine computer (NI125). Replace the defective drop-point system adjustment machine computer (NI125)
F35032	Warning	The signal from the right pressure sensor is lower than 0.3 V or higher than 4.7 V	 Eliminate damage or interruptions on the cable to the pressure sensor. Replace the defective pressure sensor (NH085)
F35033	Note	During the calibration, the voltage at the angle sensor of the fill level flap in the metering chamber of the ZG-TS was greater than 2.0 V for 20 seconds	 Before calibrating, refill with fertiliser Make sure the oil is flowing Ensure for the correct floor belt drive
F35034	Note	During the offline calibration, the new calibration factor calculated was above 1.4 and below 0.6	 Check the shutter for blockages Repeat the calibration travel Do not refill during the calibration travel Calibrate the fertiliser Re-calibrate the weigh cell Set the special spreading material, rice
F35035	Warning	The desired application rate cannot be spread with the working width and speed	Reduce the speedReduce the application rateReduce the working width



F35037	Note	The diagnosis menu has been called up	
F35038	Note	The menu for emptying the hopper has been called up.	
F35039	Note	The menu "Determine calibration factor" has been called up	
F35040	Note	The ISOBUS speed signal that has been selected in the menu "Con- figure source speed" is not availa- ble.	 In the menu "Configure source speed", select a speed that is available or the simulated speed. Correct the settings of the tractor ECU.
F35041	Alarm	The ISOBUS Shortcut Button of the terminal has been pressed (e.g., On / Off button on the AMATRON or the mushroom-head button on the CCI terminal)	Let go of the Shortcut Button
F35042	Alarm	The ISOBUS Shortcut Button of the terminal has been released (e.g., On / Off button on the AMATRON or the mushroom-head button on the CCI terminal)	Confirm the message
F35044	Alarm	The hopper contains more than 300 kg and the oil pressure on the left hydraulic motor was too low for longer than 10 s during spreading operation.	Eliminate the cause for blockage on the left shutter.
F35044	Warning	FlowCheck has measured a pres- sure that is too low in the flow of the left hydraulic motor over a longer period of time.	 Check the left hopper for clogs. Check fertiliser settings (spreading disc and telescopic setting)
F35046	Note	One tractor ECU sends a speed signal > 0km/h to the ISOBUS whereas a simulated speed was set.	 Select the correct speed in the menu "Configure source speed" Deactivate the tractor ECU (e.g., 0 Imp/100 m)
F35047	Warning	No impulses are received by the speed sensor on the left agitator when the electric agitator is switched on.	 Remove the blockage in the agitator Eliminate damage or interruptions on the cable to the agitator motor Replace defective agitator motor (EA358)
F35048	Warning	No impulses are received by the speed sensor on the right agitator when the electric agitator is switched on.	 Remove the blockage in the agitator Eliminate damage or interruptions on the cable to the agitator motor Replace defective agitator motor (EA358)
F35049	Warning	The signal of the angle sensor of the left shutter is less than 0.5 V.	 Eliminate damage or interruptions on the cable to the angle sensor Replace the defective angle sensor (NH115)
F35050	Warning	The signal of the angle sensor of the right shutter is less than 0.5 V.	 Eliminate damage or interruptions on the cable to the angle sensor Replace the defective angle sensor (NH115)



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F35051	Warning	The signal from the path meas- urement system of the linear drive for the left limiter is smaller than 0.5 V.	 Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA353)
F35052	Warning	The signal from the path meas- urement system of the linear drive for the right limiter is smaller than 0.5 V.	 Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA353)
F35053	Warning	Although the linear drive on the left limiter is switched on, the voltage value of the path measurement system in this drive does not change	 Remove blockage in the limiter Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA353)
F35054	Warning	Although the linear drive on the right limiter is switched on, the voltage value of the path meas- urement system in this drive does not change	 Remove blockage in the limiter Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA353)
F35055	Warning	The signal from the path meas- urement system of the linear drive for the left inlet system position is less than 0.5 V.	 Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA355)
F35056	Warning	The signal from the path meas- urement system of the linear drive for the right inlet system is less than 0.5 V.	 Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA355)
F35057	Warning	Although the linear drive on the left inlet system is switched off, the voltage value of the path meas- urement system in this drive does not change	 Eliminate the blockage of the inlet system adjustment Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA355)
F35058	Warning	Although the linear drive on the right inlet system is switched off, the voltage value of the path measurement system in this drive does not change	 Eliminate the blockage of the inlet system adjustment Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA355) Replace defective F45 (EA355)
F35059	Warning	The signal from the path meas- urement system of the linear drive on the left AutoTS gearbox is less than 0.5 V.	 Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA387)
F35060	Warning	The signal from the path meas- urement system of the linear drive on the right AutoTS gearbox is less than 0.5 V.	 Eliminate damage or interruptions on the cable to the linear drive Replace defective linear drive (EA387)
F35061	Warning	The sensor value of the linear drive for the left Auto TS vane does not change and does not have the required value	 Switch the Auto TS again Remove soiling from the spreading disc Re-calibrate Auto TS Eliminate damage or interruptions on the cable to the linear drive Remove defective linear drive (EA375)



F35062	Warning	The sensor value of the linear drive for the right Auto TS vane does not change and does not have the required value	 Switch Auto TS again Remove soiling from the spreading disc Re-calibrate Auto TS Eliminate damage or interruptions on the cable to the linear drive Remove defective linear drive (EA375)
F35063	Note	When using the mobile test rig, the position for the inlet system was calculated that was smaller than 0 or greater than 60.	 check settings according to setting chart. spreading again contact your local service partner
F35064	Note	The Section Control State changes from 1 to 0. Automatic part width section control has been deactivat- ed by the spreader or terminal.	 Switch on the spreading discs Switch off the boundary and ditch spreading Do not operate the spreader by hand when in automatic mode Eliminate other faults (e.g., shutter sensor failed) Exit the calibration or implement menu
F35065	Warning	The signal from the angle sensor to the fill level flap in the metering chamber of the ZG-TS is less than 0.5 V.	 Eliminate any damage or interruptions of the wiring Replace defective angle sensor
F35066 F36807	Note	Right filling level sensor is not actuated	 Refill with fertiliser Eliminate the "fertiliser bridge" in the hopper using appropriate tools Eliminate any damage or interruptions of the wiring Replace defective filling level sensor
F35068	Note	Too much noise in the sensor sig- nal or no CAN messages are re- ceived by the sensor.	 Disconnect the implement plug for the spreader and reconnect Replace the sensor
F35069	Warning	Communication with the Argus sensors has been interrupted.	Eliminate any damage to the wiringReplace defective Argus sensor
F35070	Warning	Communication with the Argus sensors has been interrupted.	Eliminate any damage to the wiringReplace defective Argus sensor
F35071	Warning	FlowCheck has measured a pres- sure that is too low in the flow of the right hydraulic motor over a longer period of time.	 Check the left hopper for clogs. Check fertiliser settings (spreading disc and telescopic setting)
F35072	Note	Changes have been made in the implement settings that require restarting the job computer.	
F35073	Warning	With automatic mode switched on, all of the part-width sections were located outside of the field bounda- ry for longer than 10 seconds	



F35074	Warning	• The tilt was not transmitted by the scale computer.	• Eliminate damage or interruptions on the cable to the tilt sensor
		The tilt is precisely 0° for longer than 30 seconds	Eliminate damage or interruptions on the cable to the scale computer
			Replace defective tilt sensor (NH163)
			Replace defective weigh cell computer (NI205)
F35077	Warning	The signal of the rear-left weigh cell is smaller than 4 mA.	Remedy damage or breaks on the cable to the weigh cell
			Replace defective weigh cell
F35078	Warning	The signal of the rear-right weigh cell is smaller than 4 mA.	Remedy damage or breaks on the cable to the weigh cell
			Replace defective weigh cell
F35079	Warning	The signal of the front-right weigh cell is smaller than 4 mA.	 Remedy damage or breaks on the cable to the weigh cell
			Replace defective weigh cell
F35080	Warning	The speed is greater than 25 km/h and the spreading discs are rotat- ing at more than 100 rpm	Switch off the spreading discs
F35081	Warning	'The spreading disc speed required for wind compensation exceeds the permissible maximum spreading disc speed	 We recommend fertiliser spreading is stopped if the wind is too strong.
F35082	Warning	Strong gusty wind detected	 Check the strength of the gusts of wind. We recommend fertiliser spreading is stopped if the wind is too gusty.
			Check the weather station if there is no gusty wind
F35083	Warning	'The fertiliser spreader's configura- tion limits have been reached. The wind effects can no longer be fully compensated.	We recommend fertiliser spreading is stopped if the wind is too strong.
F35084	Warning	Spreading disc TS1 is not support- ed by WindControl.	• Upgrade spreading disc to TS2 or TS3. Otherwise, operate the machine without WindControl.
F35085	Warning	The tractor ECU received a signal that the ignition has been switched off while the spreading discs were switched off and the speed was < 0.5 km/h.	
F35087	Warning	During the online calibration, the new calculated calibration factor was above 1.4 or below 0.6 several times	 Check the shutter opening for blockage Take the calibration factor from the setting chart Perform offline calibration
F35089	Note	The steering axle has not yet been calibrated.	Calibrate steering axle.



F35090	Alarm	The sensor required to determine the wheel angle sends invalid val- ues.	Eliminate damage or breaks on the cable to the wheel angle sensor.Replace defective wheel angle sensor
F35091	Alarm	The rotation speed sensor required for automatic steering has failed.	 Eliminate damage or breaks on the cable to the turning speed sensor Replace defective rotation speed sensor
F35092	Alarm	The ZG job computer does not respond	Eliminate damage or breaks on the cable to the ZG job computer
F35093	Alarm	The centre position of the steering axis was not reached.	 Replace defective ZG job computer NI254 Check the controller for the stop and proportional valve Ensure adequate oil supply Check the running gear Eliminate damage or breaks on the cable to the wheel angle sensor. Replace defective wheel angle sensor
F35094	Warning	The hopper contains less than 300 kg and FlowCheck reports that the pressure is too low on the left spreading disc drive	Refill with fertiliser
F35095	Warning	The hopper contains less than 300 kg and FlowCheck reports that the pressure is too low on the right spreading disc drive	Refill with fertiliser
F35096	Note	The weather station is not fully unfolded. The WindControl control- ler is temporarily interrupted	
F35098	Warning	The weather station's folding mounting plate is blocked.	Check for blockage or stiffness and rem- edy it
F35099	Alarm	The position of the steering axle has changed without the controller.	Check the running gear and wheel angle sensor.
F35100	Note	The scale adjustment function can only be performed if at least 500 kg are in the hopper.	
F35104	Warning	The signal of the front-left weigh cell is smaller than 4 mA.	Eliminate damage or breaks on the cable to the weigh cell.Replace defective weigh cell.
F35105	Warning	The signal of the front-left weigh cell is smaller than 4 mA.	Eliminate damage or breaks on the cable to the weigh cell.Replace defective weigh cell.



F35106	Warning	The sensor for recording the posi- tion of the folding mounting plate is smaller than 0.5 V.	Eliminate damage or breaks on the cable to WindControl actuator.Replace defective EA439 actuator
F35107	Alarm	The recorded position of the steer- ing axle does not change in spite of a controller	 Check the controller for the stop and proportional valve Ensure adequate oil supply. Check the running gear Eliminate damage or breaks on the cable to the wheel angle sensor. Replace defective wheel angle sensor
F35107	Note	The steering axle may only be calibrated at a standstill	
F35115	Note	The hopper can only be drained at a standstill when the spreading discs are powered off.	
F35116	Warning	The inlet system position required for wind compensation exceeds the adjustable maximum	• We recommend fertiliser spreading is stopped if the wind is too strong.
F35117	Warning	The calculated wind data is implausible.	 Eliminate the stiffness in the fall protection Check displayed wind data Check the speed source of the fertiliser spreader Replace defective weather station NH174
F35118	Warning	The permissible travel speed was exceeded when adjusting the posi- tion of the folding mounting plate.	• Reduce the speed below the specified numerical value when adjusting the fold-ing mounting plate.
F35119	Warning	The permissible travel speed was exceeded when adjusting the posi- tion of the folding mounting plate.	• Reduce the speed below the specified numerical value when adjusting the fold-ing mounting plate.
F35201	Warning	The Argus sensor has reported an error or no more messages are being received from this sensor.	 Disconnect the power supply of the spreader and reconnect Replace Argus sensor at position 1 (NH177)
F35202 – F35214	Warning	The Argus sensor has reported an error or no more messages are being received from this sensor.	 Disconnect the power supply of the spreader and reconnect Replace Argus sensor at position 2 (NH177) Replace Argus sensor at position 1 (NH177)

F35203	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 3 (NH177)
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			Replace ArgusTwin sensor at position 2 (NH177)
F35204	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 4 (NH177) Replace Argus sensor at position 3 (NH177)
F35205	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 5 (NH177) Replace Argus sensor at position 4 (NH177)
F35206	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 6 (NH177) Replace Argus sensor at position 5 (NH177)
F35207	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 7 (NH177) Replace Argus sensor at position 6 (NH177)
F35208	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 8 (NH177) Replace Argus sensor at position 7 (NH177)
F35209	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 9 (NH177) Replace Argus sensor at position 10 (NH177)
F35210	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 10 (NH177) Replace Argus sensor at position 9 (NH177)
F35211	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 11 (NH177) Replace ArgusTwin sensor at position 10 (NH177)



F35212	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 12 (NH177) Replace Argus sensor at position 11 (NH177)
F35213	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 13 (NH177) Replace Argus sensor at position 12 (NH177)
F35214	Warning	The ArgusTwin sensor has report- ed an error or no more messages are being received from this sen- sor.	 Disconnect the power supply of the spreader and reconnect Replace ArgusTwin sensor at position 14 (NH177) Replace ArgusTwin sensor at position 13 (NH177)
F36809	Note	A boundary spreading mode has been activated for which ClickTS must be switched on on the left.	
F36810	Note	A boundary spreading mode has been activated for which ClickTS must be switched on on the right.	
F36811	Note	Boundary spreading has been switched off or a boundary spread- ing mode has been activated for which ClickTS must be switched off on the left.	
F36812	Note	Boundary spreading has been switched off or a boundary spread- ing mode has been activated for which ClickTS must be switched off on the right.	
F36815	Note	'A boundary spreading function is activated and a shutter was opened.	







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