Orientation Aid for the Start of the Season

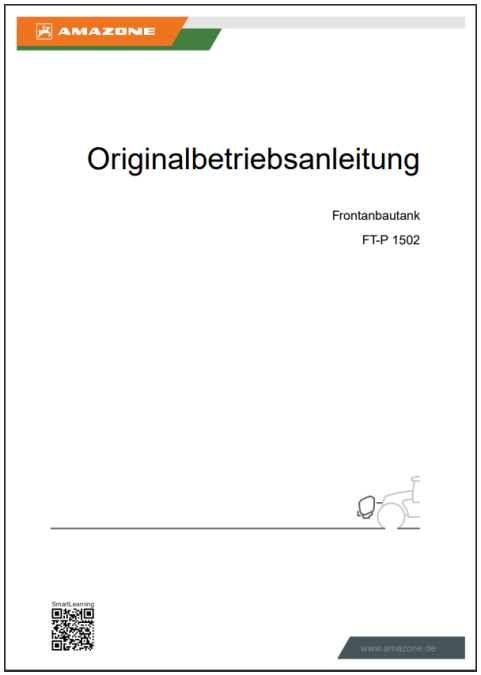
MG7958-EN-GB

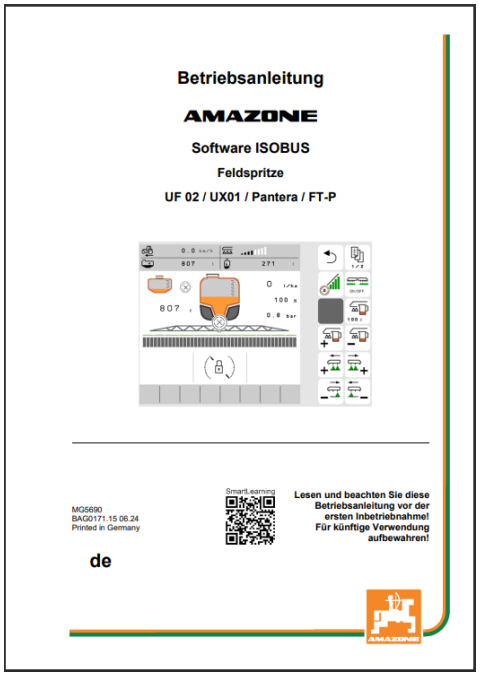
FT-P – ISOBUS manual

TABLE OF CONTENTS

1. General instructions

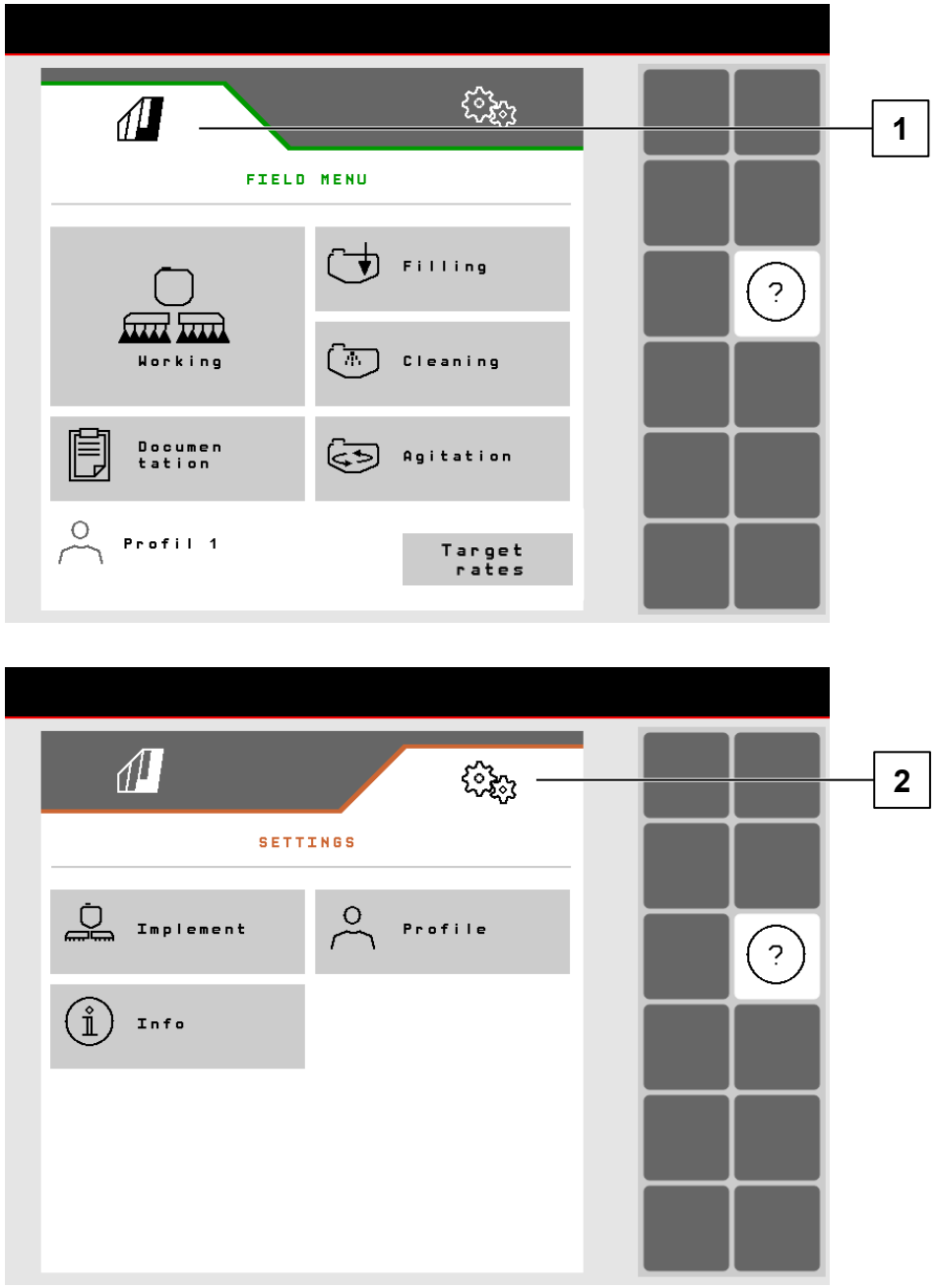
- Use of this document requires that the operating manuals for the implement and the software have been read and understood. The corresponding documents are shown on the right side.
- For this reason, it is necessary to refer to the operating manual for additional information. The operating manual must always be kept at hand.
- The Orientation Aid for the Start of the Season - FT-P document serves as a guideline for the user to check the implement for the new season and to put it back into operation. This document is based on software version NW242-I and is also only valid for this version.





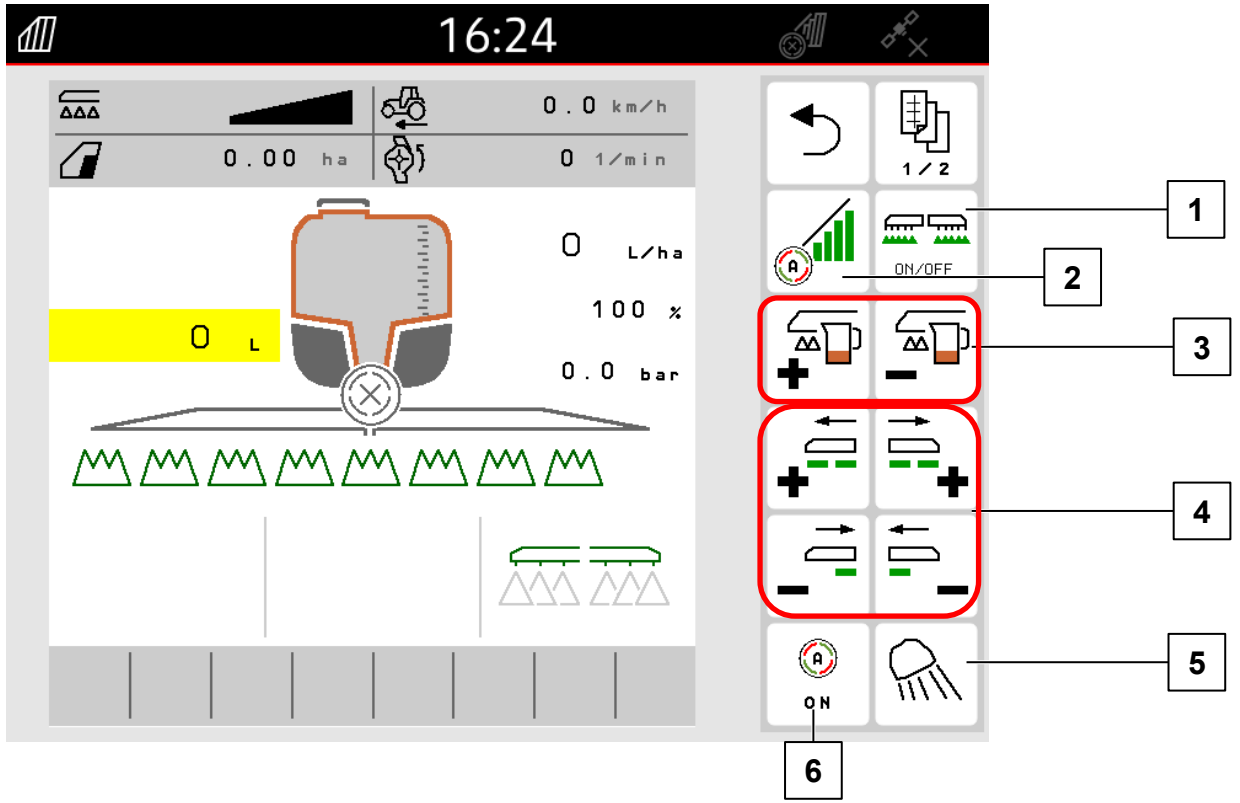
2. Homepage of the implement software

- The Main menu is divided into the Field menu (**1**) and the Settings menu (**2**).
- The menus can be switched by clicking on one of the marked buttons.
- From the Field menu, you can switch to the submenus Work, Documentation, Filling, Cleaning and Agitation. Moreover, under Target rates, it is also possible to enter the desired area and application rate.
- From the Setting menu, you can switch to the submenus Implement, Profile and Info.



3. Work menu of the implement software

3.1 Work menu overview



(1) Switch spraying on/off
(2) Switch on Section Control
(3) Increase/reduce application rate
(4) Switch part-width sections on/off
(5) Switch on work lights
(6) Switch on automatic devices

4. Preparation for operation

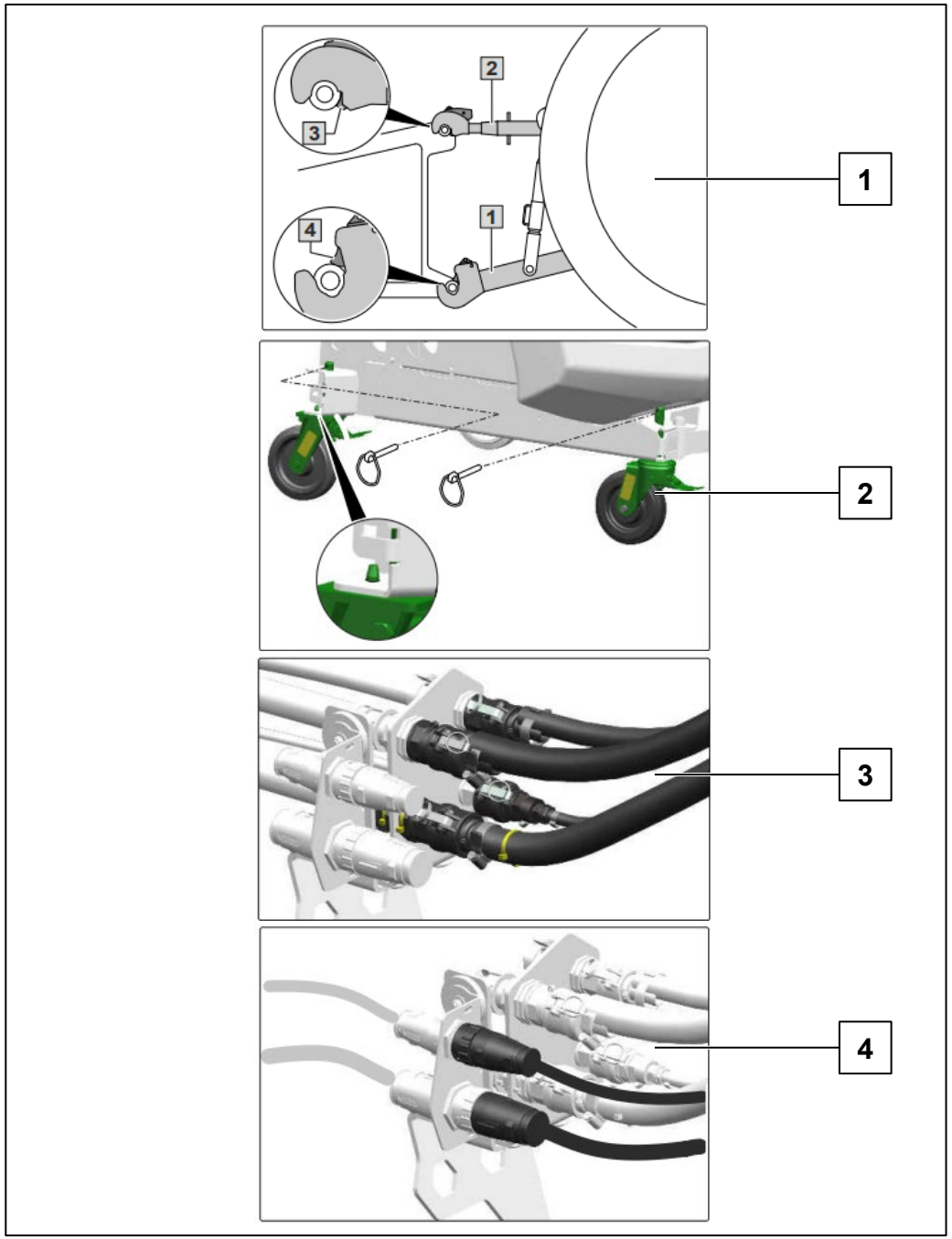
Requirements:

- Minimum tractor tare weight: 7000 kg
- Maximum forward speed: 40 km/h
- pH value of the spray liquid: higher than 1.5

If the tractor is being coupled to the FT-P for the first time, be sure to observe section 6 of the FT-P operating manual.

Coupling the implement:

Drive the tractor towards the implement, leaving a sufficient distance. Take the hydraulic hoses and the supply lines for the lighting from the parking positions and couple to the tractor. Then couple the 3-point mounting frame (**1**) and remove the transport device (**2**). Finally, couple the spray liquid hose lines (**3**) and the electronic cables (**4**).



5. Procedure during operation

5.1 Filling

Spray liquid tank suction filling

1. Couple the suction hose onto the suction connection and the extraction point
2. Run the spray liquid pump
3. Select  for suction valve chest "SA"
4. Select  for pressure valve chest "DA"
5. Select  for switch tap "SF"
6. Add the spray agent while filling.

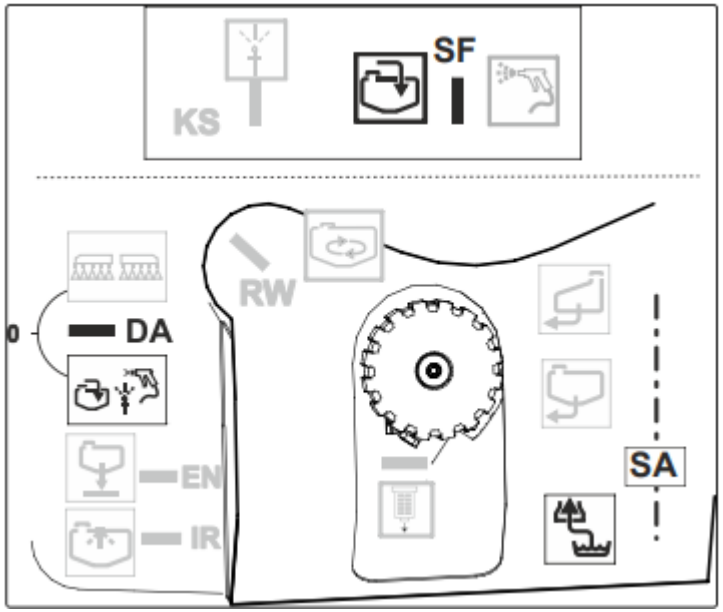
   After filling:

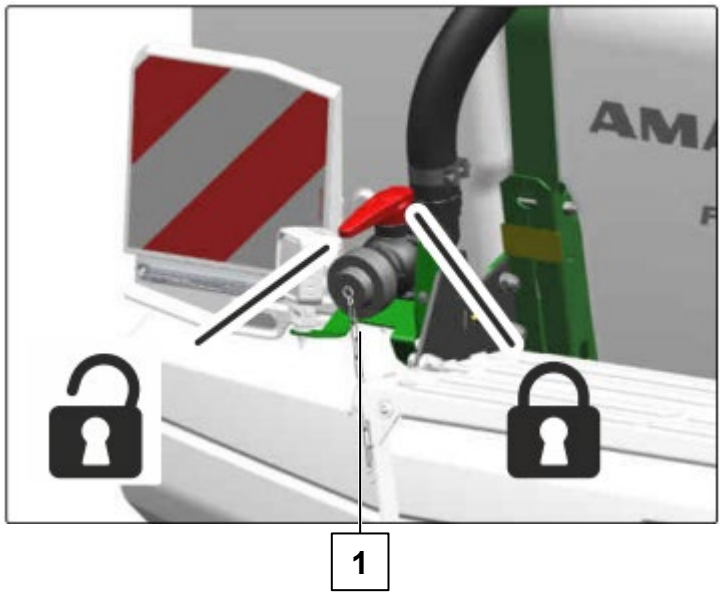
   When the target quantity has been reached:
7. Select Position "0" for switch tap "SF".
8. Select Position "0" for pressure valve chest "DA".

Pressure filling of the spray liquid tank (**1**)

1. Couple the pressure hose to the hydrant
2. Open the stop tap on the pressure connection
3. Add the spray agent while filling.

   When the desired fill level is reached:
4. Close the stop tap
5. Uncouple the pressure hose





5. Procedure during operation

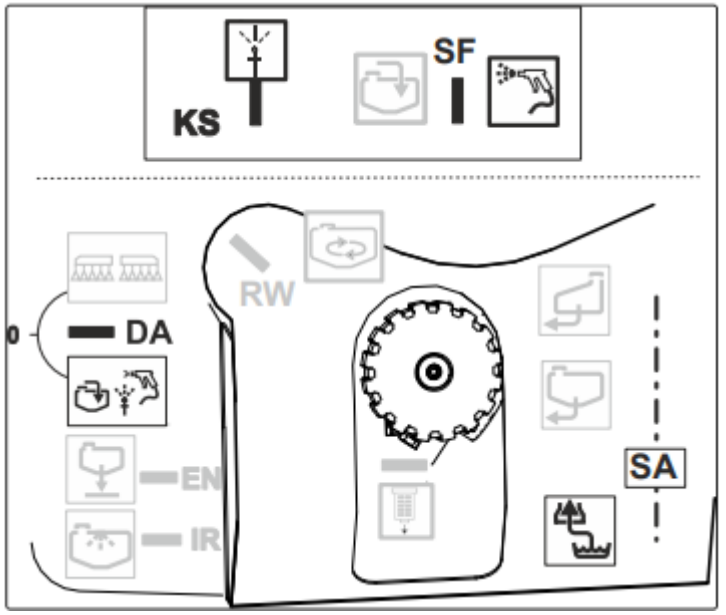
5.1 Filling

Adding crop protection product and cleaning spray agent canisters

1. Open the cover of the spray liquid tank.
2. Carefully add the crop protection product while filling.
3. When filling of the spray liquid tank is complete:

   Select  on the suction valve chest for flushing water.

4. Put the spray agent canister over the nozzle and press it down. The spray agent canister will be cleaned on the inside.
5. Open and hold stop tap "KS".
6. Select  for the switch tap "SF".
7. Clean the flushing area with the spray gun.
8. Select Position "0" for switch tap "SF".
9. Close the cover of the spray liquid tank.

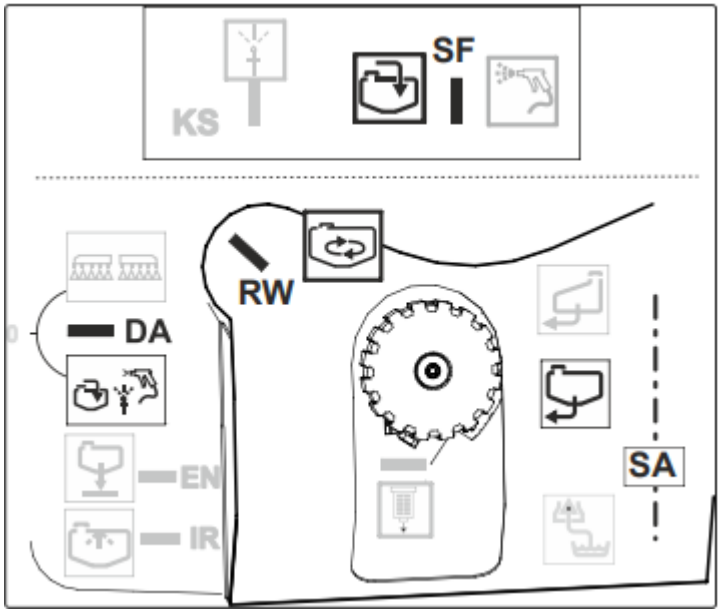


5. Procedure during operation

5.2 Adjusting the agitator

After filling the sprayer, the agitator must be set:

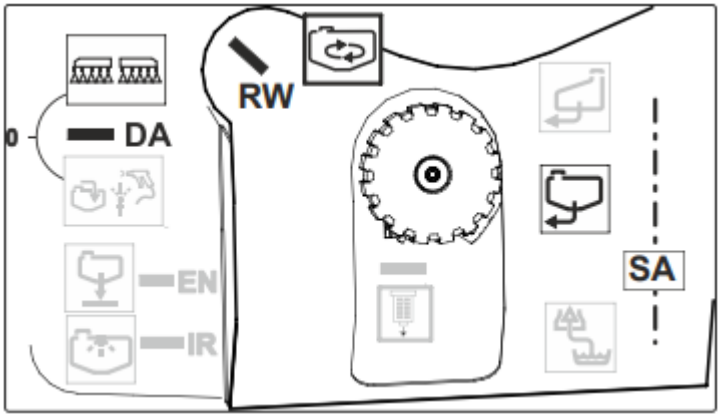
1. Run the spray liquid pump.
2. Select  for suction valve chest "SA".
3. Select  for pressure valve chest "DA".
4. Select  for switch tap "SF".
5. Set the agitator "RW".



5. Procedure during operation

5.3 Spraying

1. Set the agitator "RW".
2. Select  for pressure valve chest "DA".
3. Select  for suction valve chest "SA".
4. Switch on the control terminal.
5. Enter the rate in the Field menu on the control terminal.
6. Run the spray liquid pump at operating speed.
7. Set spraying operation in the Work menu on the control terminal.



5. Procedure during operation

5.4 Cleaning

Start conditions

To be able to start the cleaning program (intensive and quick cleaning), the following conditions must be met:

- Maximum fill level in the main tank: <1 %
- The flushing water tank is sufficiently filled

5. Procedure during operation

5.4 Cleaning

Flush the boom:

1. Run the spray liquid pump
2. Close the agitator
3. Pressure valve chest in Spraying position
4. Suction valve chest in Flushing water tank position
5. Switch on spraying operation on the control terminal for 15 seconds

Clean the filter (1):

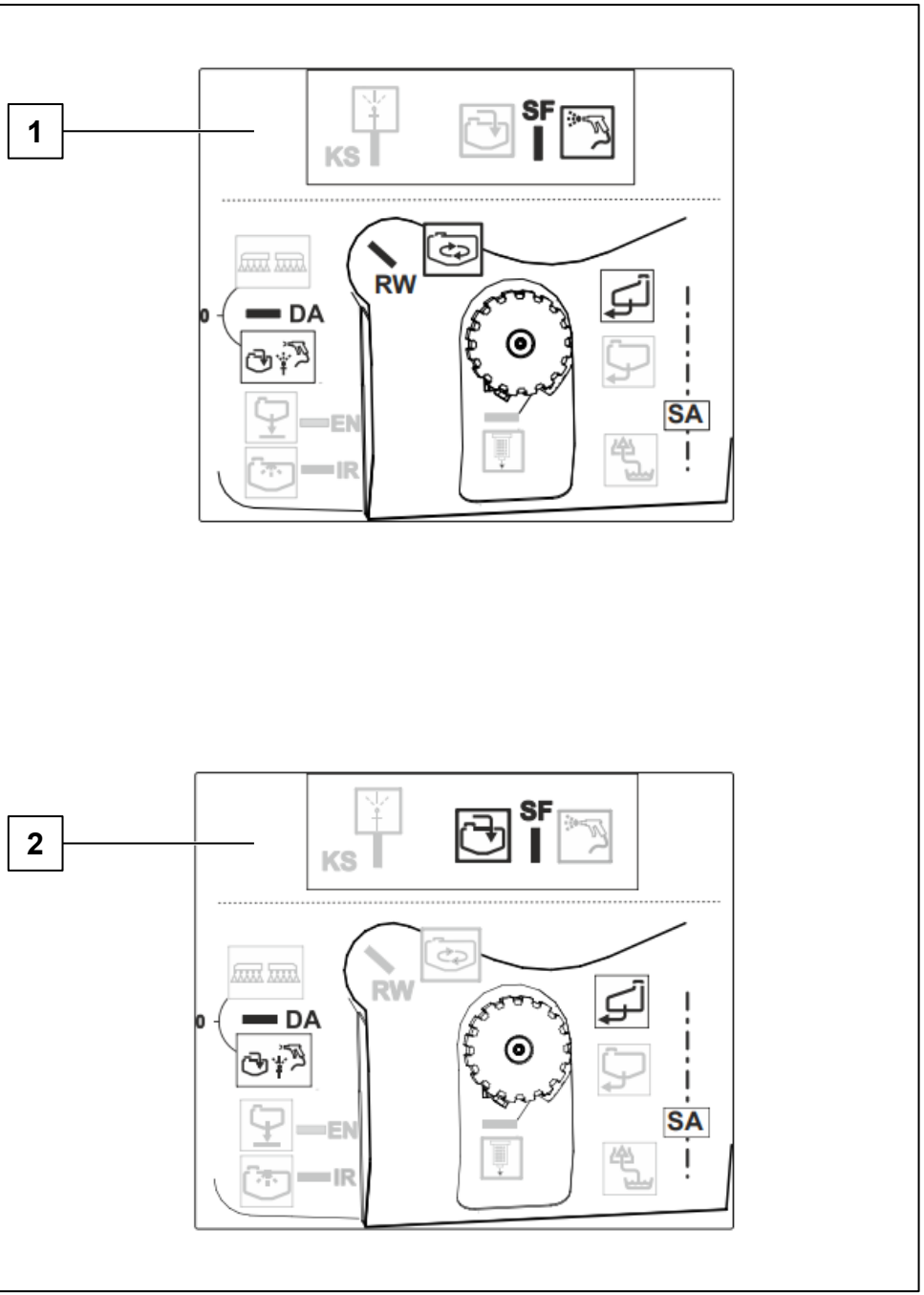
6. Set the pressure valve chest to the Filling position
7. Set the switch tap SF to the Pistol position
8. Vent the suction filter cover for 20 seconds
9. Remove and clean the suction filter
10. Grease the O-rings
11. Put the suction filter back in

Clean the pressure filter:

12. Switch off the spray liquid pump
13. Pressure valve chest in position "0"
14. Remove the pressure filter and clean it
15. Grease the O-rings
16. Put the pressure filter back in

Dilute the spray liquid (2):

17. Switch on the spray liquid pump
18. Set the suction valve chest to Flushing water tank
19. Set the pressure valve chest to the Filling position
20. Set the switch top SF to the Fill tank position

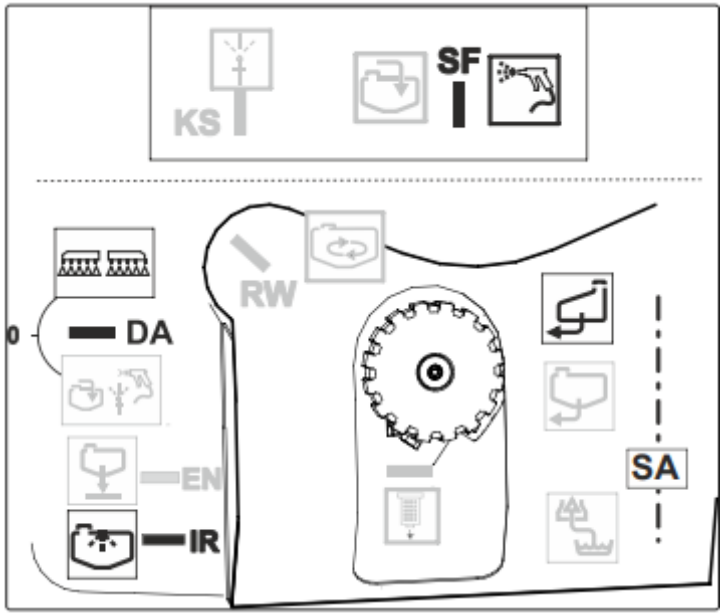


5. Procedure during operation

5.4 Cleaning

Quick cleaning / intensive cleaning:

1. Switch on the spray liquid pump
2. Select  for "DA"
3. Select  for "SA"
4. Select  for switch tap "SF"
5. Clean the tank with the spray pistol
6. Open the stop tap "KS"
7. Select  for "SF"
8. Open stop tap "IR" and close it again
   Perform internal cleaning with 10 % of the flushing water
9. Select  for "DA"
10. Open agitator "RW" completely
    Flush the agitators with 10 % of the flushing water
11. Select  for "SA"

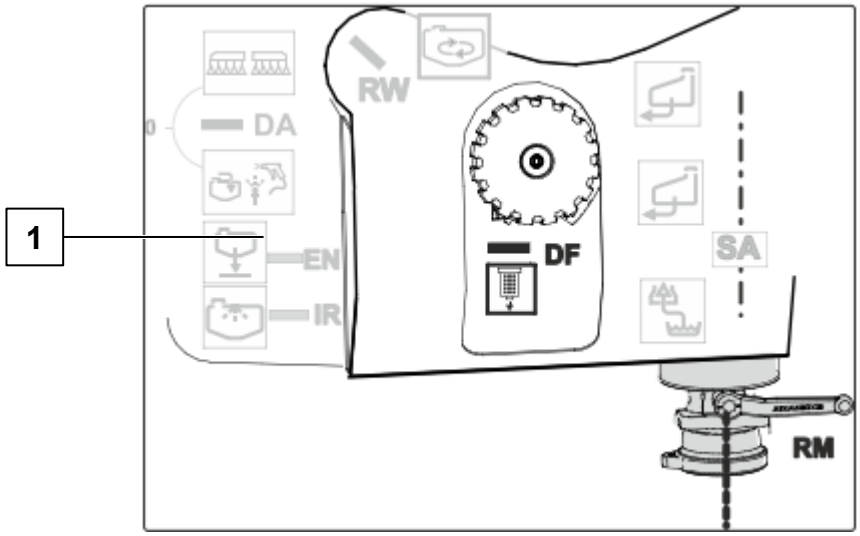


5. Procedure during operation

5.4 Cleaning

Quick cleaning / intensive cleaning:

12. Switch on spraying operation via the control terminal and spray out the cleaning water (switch spraying on and off several times)
13. Spray out residual quantities until air emerges from the nozzles.
14. For intensive cleaning, repeat the steps 1 – 12 three times
15. Drain the final residual quantity
16. Place a collection bucket under the drain valve
17. Open stop taps "DF" and "RM" (**1**)
18. Drain residual quantities and close the stop taps



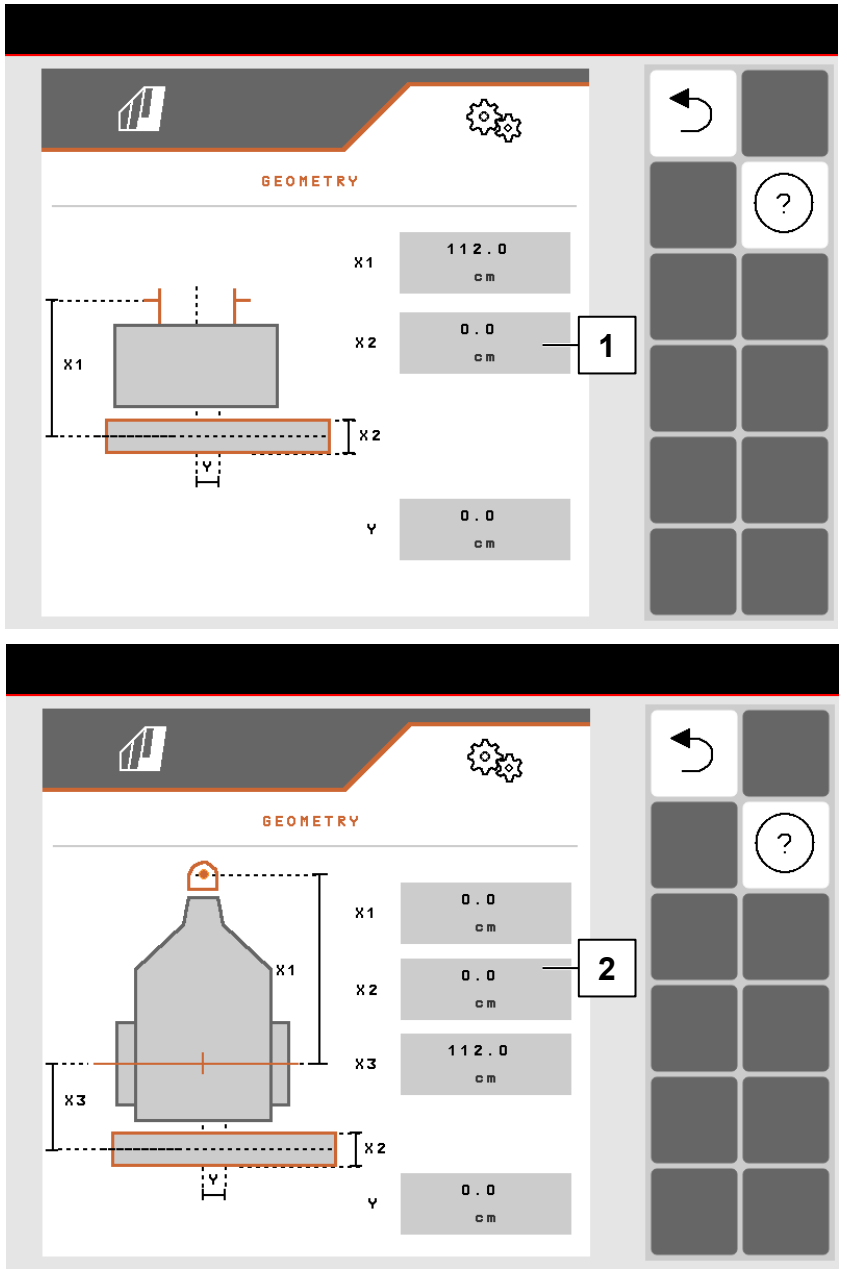
6. Software settings

6.1 ISOBUS software

➔| NW242-I

The coupling type and the geometry of the mounted implement are configured in the Settings/Implement/Implement profile menu (only with the autonomous controls) and can be found in the respective operating manual.

(**1**) Geometry with mounted implement
(**2**) Geometry with trailed implement

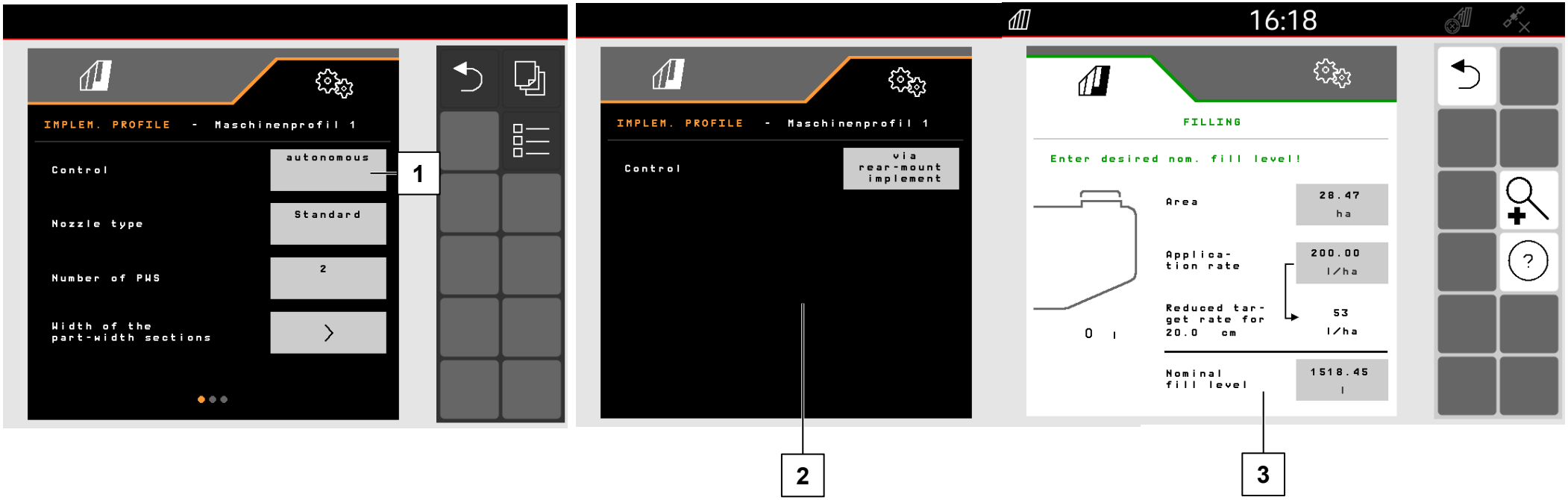


NOTE

|➔ NW242-J: the Configure geometry menu is no longer available **in the setup**.

6. Software settings

6.1 ISOBUS software



The controls for the FT-P are configured in the Settings/Implement/Implement profile menu.

(1) Autonomous (operate FT-P as a separate implement)
(2) Via rear-mounted implement (operate FT-P via rear-mounted implement)

Enter the target rate (**3**):

1. Enter the target rate
2. Enter the band width

NOTE

Switching between autonomous controls and via rear-mounted implement can lead to a change in the part-width section configuration. It is recommended to create an implement profile for each mounted implement.

6. Software settings

6.1 ISOBUS software

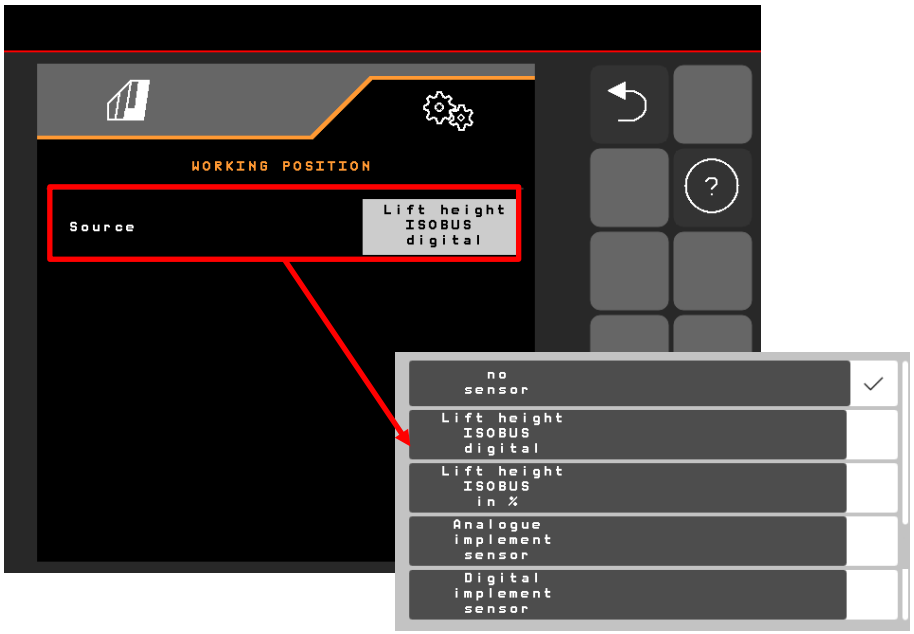
Working position

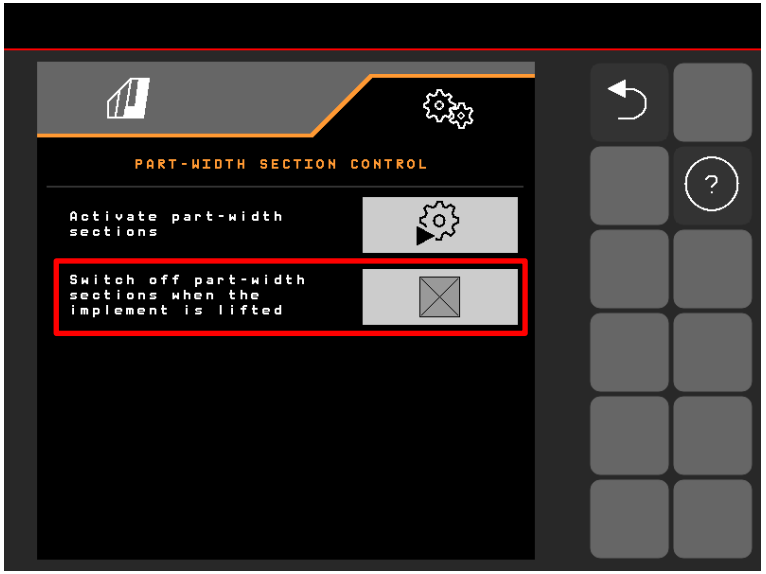
|➔ NW242-H

The working position of the FT-P 1502 is configured in the Settings/Implement/Implement profile/Working position menu (only with autonomous controls). Possible sources:

- No sensor
- Lifting height ISOBUS digital
- Lifting height ISOBUS in %
- Analogue implement sensor
- Digital implement sensor

Under Settings/Profile/Part-width section control, a selection can be made so that the part-width sections are switched based on the working position (lifted = part-width section off, lowered = part-width section on). This is only possible when a source is available for the working position.





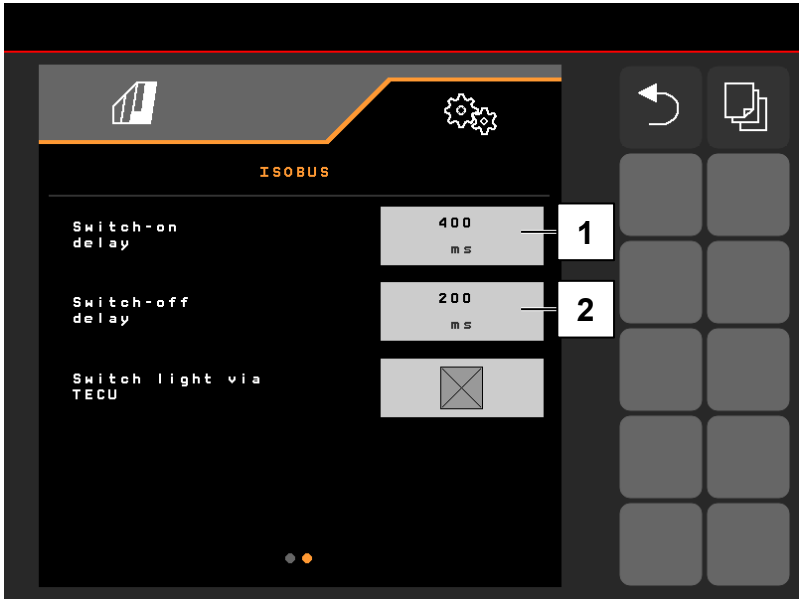
NOTE

If the FT-P is controlled via the SCHMOTZER hoeing machine, the working position is adopted from the hoeing machine.

6. Software settings

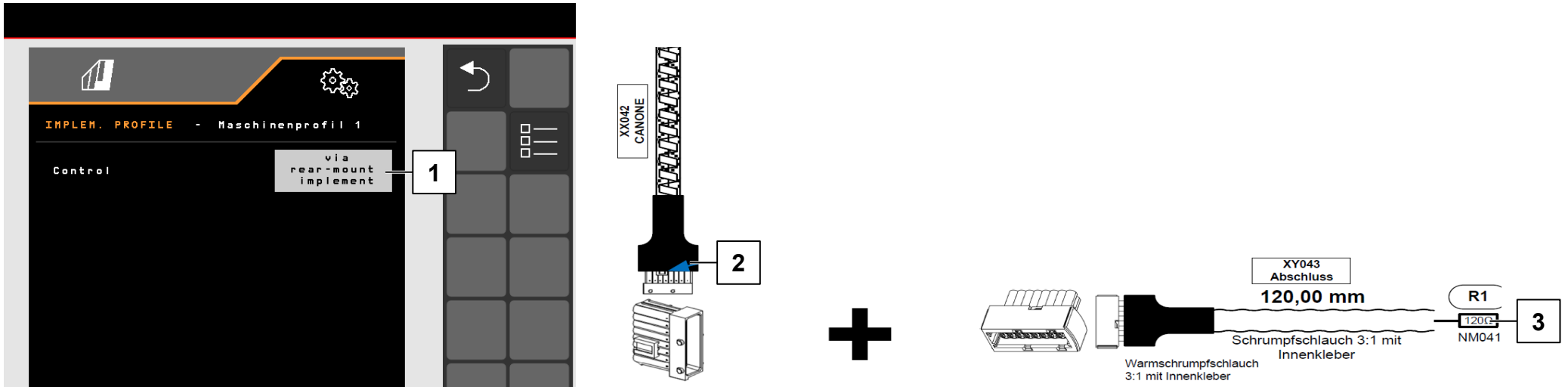
6.1 ISOBUS software

1. Delay between the switch-on command and the actual switching on
   FT-P: adjustable in the Settings/Implement/Implement profile menu, and for control via the rear-mounted implement, adjustable in the Settings/ISOBUS menu of the hoeing machine NW324
2. Delay between the switch-off command and the actual switching off
   FT-P: adjustable in the Settings/Implement/Implement profile menu, and for control via the rear-mounted implement, adjustable in the Settings/ISOBUS menu of the hoeing machine



6. Software settings

6.2 SCHMOTZER hoeing machine



|→ NW242-I

REQUIREMENTS

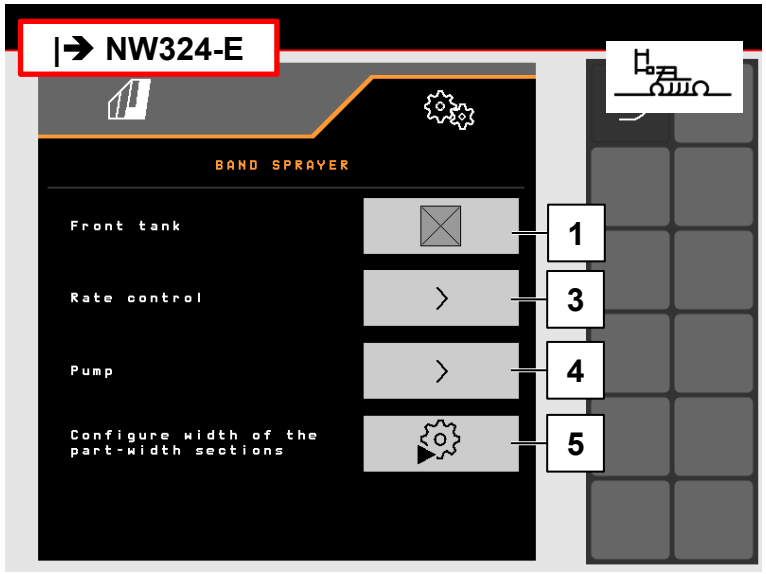
- ✓ For control "via rear-mounted implement" (**1**), the connector XX042 "CANONE" on the FT-P (**2**) must be connected to the SCHMOTZER hoeing machine (disconnect the terminating resistor (**3**), if necessary).
- ✓ Possible as of wiring harness NL1816 or NL1860.
- ✓ Possible in combination with the SCHMOTZER hoeing machine as of NW324-F

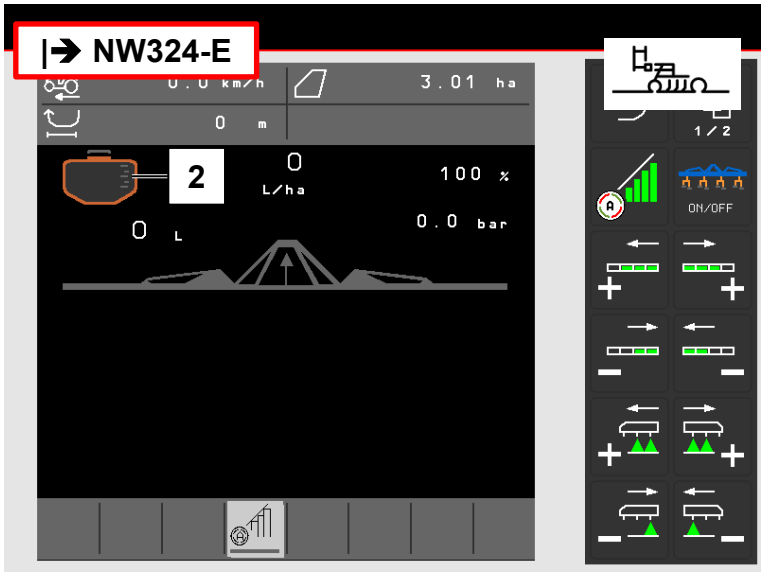
NOTE

The mating connector for "CANONE" is located at the rear under the cover of the hoeing machine, on the left side beside the connectors for the folding sensors.

6. Software settings

6.2 SCHMOTZER hoeing machine





|➔ NW242-I

If the FT-P is controlled via the SCHMOTZER hoeing machine, the rate control goes through the FT-P. The setpoint for the application rate and part-width section control is sent to the FT-P by the hoeing machine (MultiBoom possible).
The working position is adopted from the hoeing machine.
The Task Controller of the FT-P is switched off.

(1) FT-P login on the hoeing machine
(2) When the FT-P is signed in, a front tank is shown in the hoeing machine
(3) Setting the rate control
(4) Setting of the alarm limits
(5) Part-width section configuration

6. Software settings

6.2 SCHMOTZER hoeing machine

|➔ NW242-I

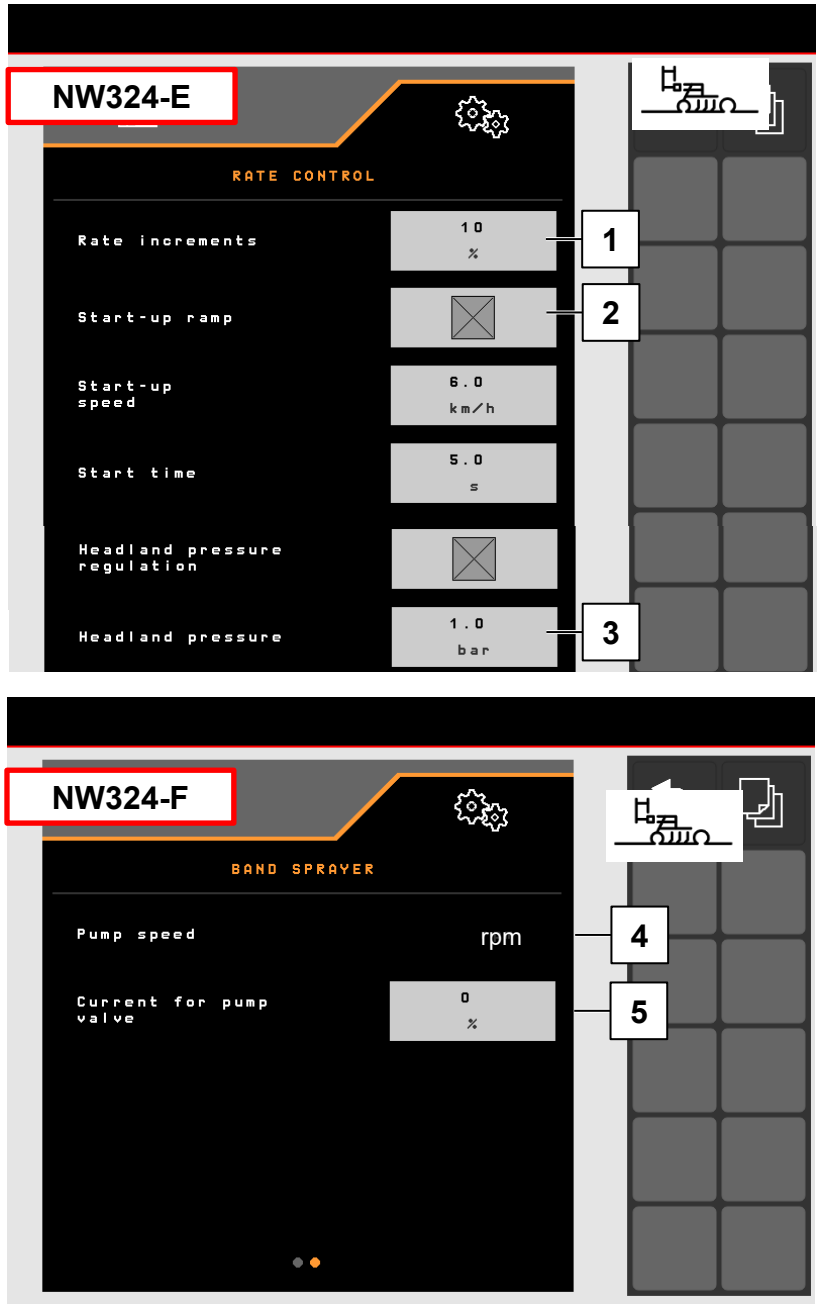
If the FT-P is controlled via the SCHMOTZER hoeing machine, it must be configured in the Settings/Band sprayer menu in the hoeing machine.

In the Settings/Band sprayer/Rate control menu, the following can be configured:

(1) Rate increments
(2) Start-up ramp
(3) Headland pressure

These settings have the same function as those in the FT-P. The same settings in the FT-P will be ignored.

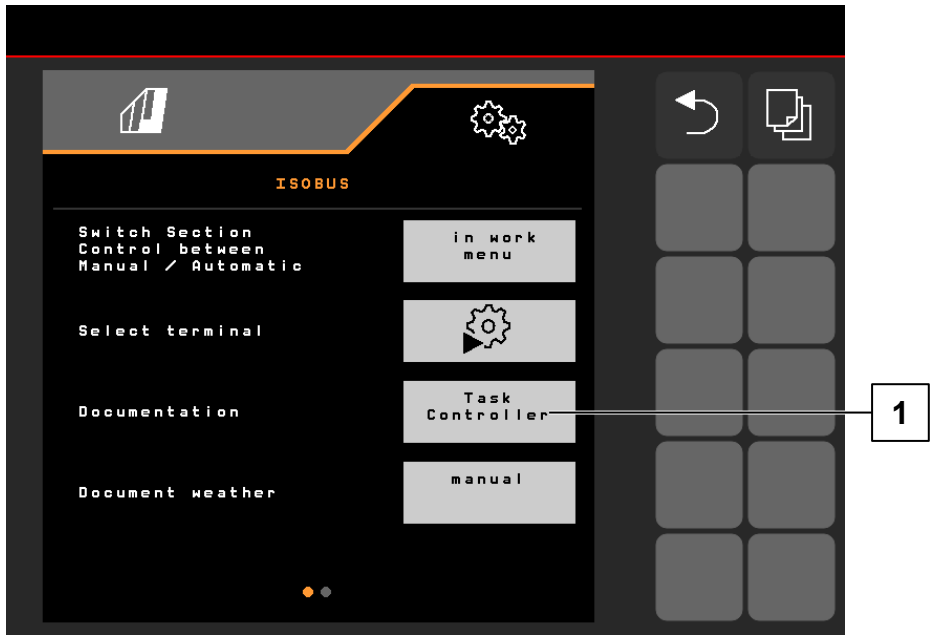
Moreover, the pump speed must be set in the Settings/Band sprayer menu.
Switch on the pump and change the percent value (**5**) until the desired pump speed (**4**) is achieved. Normal value approx. 50 %.
Recommendation for the pump speed > 440 rpm

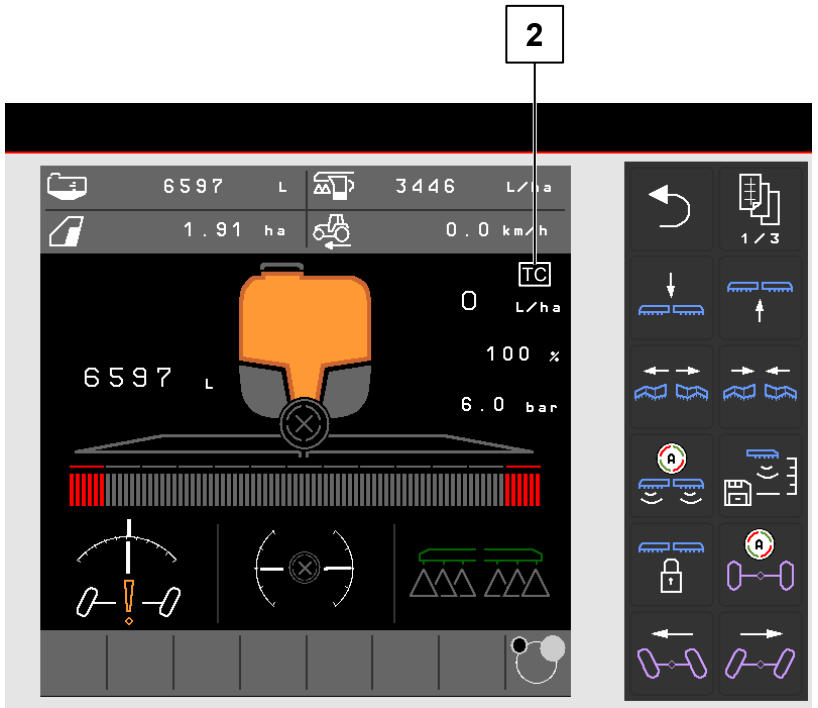


NOTE

With the autonomous FT-P, the pump speed is regulated by the tractor control unit.

7. Preparations on the implement - Task Controller





- **Terminal**: the functions of the Task Controller are controlled via the terminal. The terminal must be prepared accordingly. You can find more information in the operating manual for the respective terminal.
- **Task Controller**: Setting menu > Profile > ISOBUS. Under the Documentation point, there is the choice between "Implement internal" and "Task Controller".
- **Application maps** / **jobs** (**2**): the "TC" icon in the Work menu and Field menu indicates that the implement is receiving the target application rates from the Task Controller (application map or job).

SmartLearning app

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

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