AMAZONE

Orientation Aid for the Start of the Season
UX Special - ISOBUS

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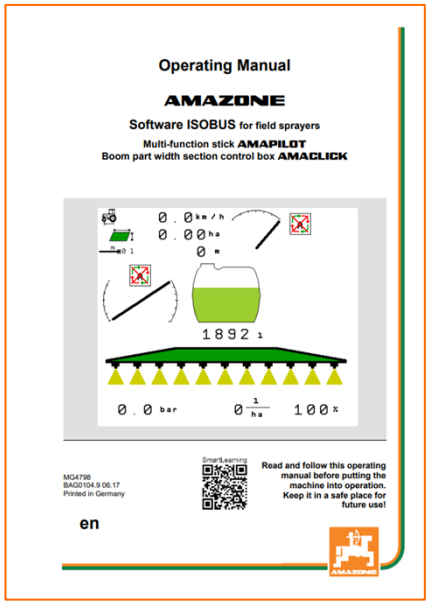
1. General information

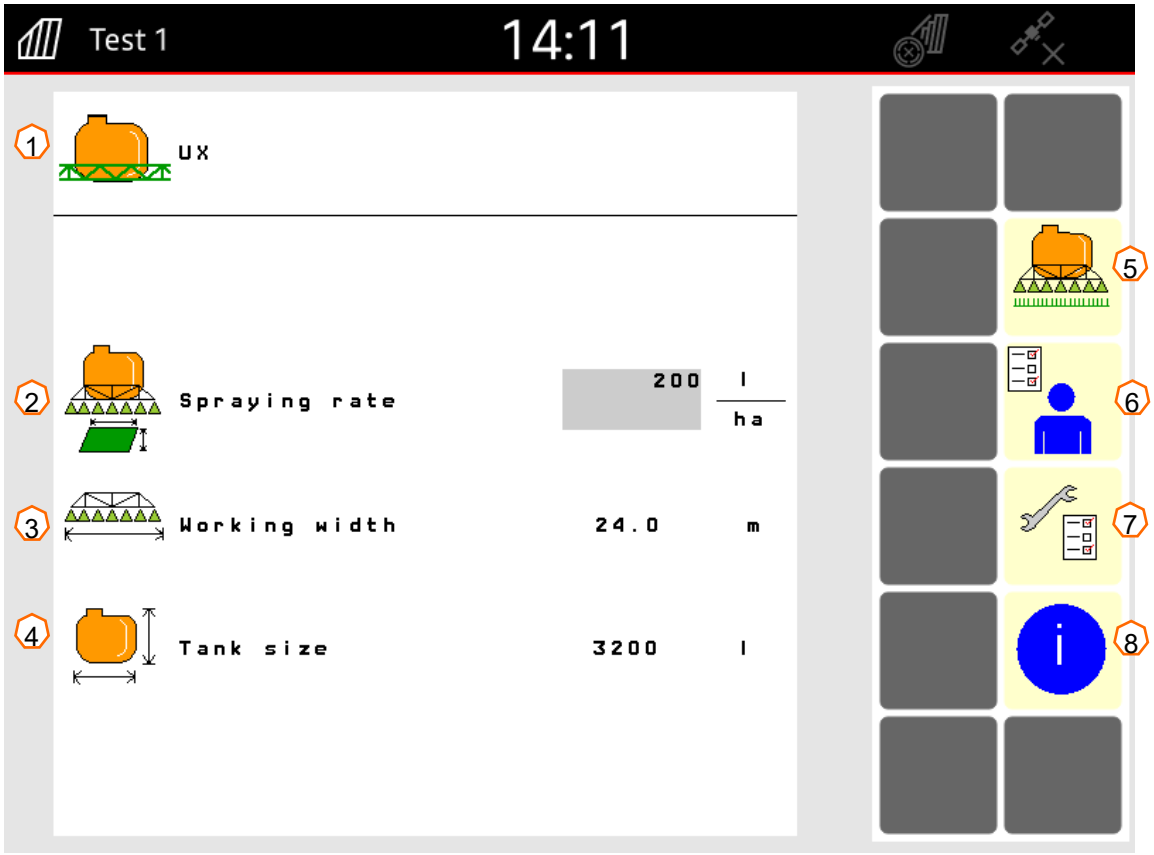
- Use of this document requires that the **operating manuals** for the implement and the software have been **read** and **understood**. The corresponding documents are shown on the left side.
- For this reason, it is **necessary** to take additional information from the operating manual. The **operating manual** must **always be available** when performing the orientation aid for the start of the season with the UX Special.
- The **Orientation Aid for the Start of the Season - UX Special** 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 01.13.01** and is also only valid for this version.



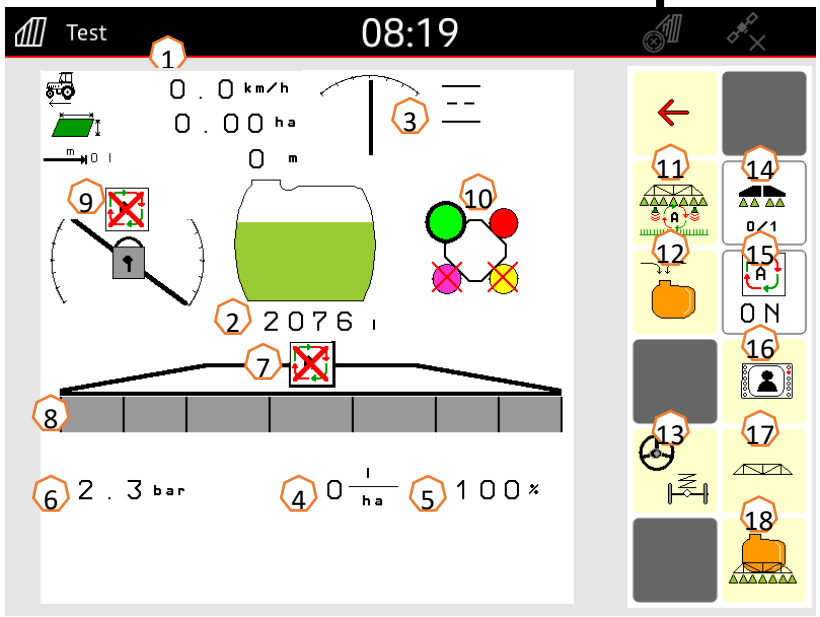
2. Start screen of the implement software

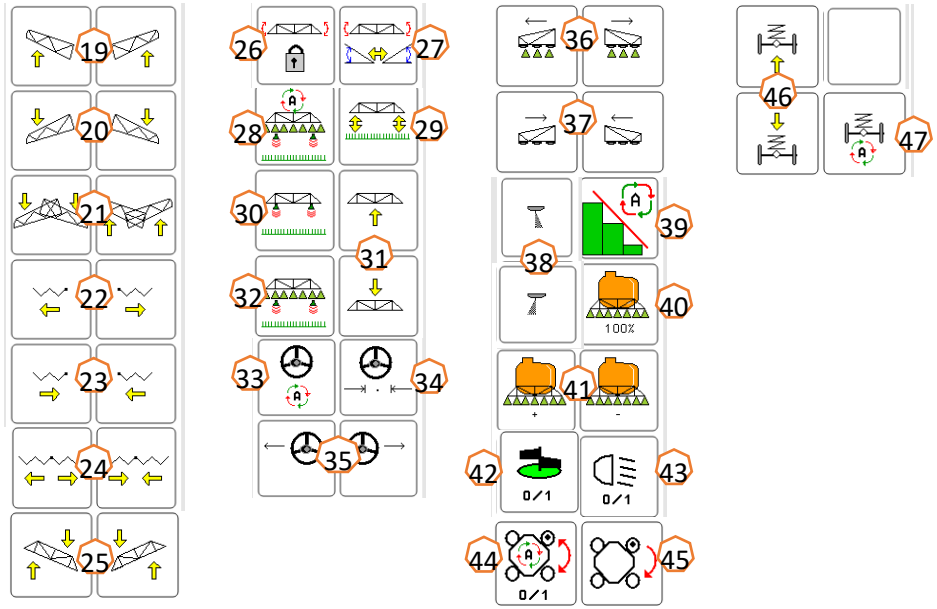
The user can reach the other screens directly from the start screen.

(1) Machine type
(2) Spread rate. This value can also be automatically changed by the Task Controller or by other setpoint generators. Moreover, this value is the 100 % basis for rate control in the Work menu
(3) Working width
(4) Tank size
(5) work menu
(6) User profile
(7) Implement settings
(8) Info screen



3. Work menu of the implement software





(1) Multi-function display, freely configurable
(2) Display of the total fill level
(3) AutoTrail status
(4) Application rate from the spray liquid tank
(5) Percent value of the application rate
(6) Spray pressure
(7) Section Control status
(8) Part-width section / nozzle status
(9) Boom status
(10) AmaSelect nozzle body status
(11) Distance Control / Autolift function group
(12) Filling function group
(13) Steering / spring suspension function group
(14) Spraying on / off
(15) Automatic functions on/off
(16) User-specific key assignment
(17) Boom kinematics function group
(18) Spraying function group
(19) Tilt boom up on one side on the left/right
(20) Tilt boom down on one side on the left/right
(21) Angle boom up/down on the left and right
(22) Unfold boom on one side on the left/right
(23) Fold boom on one side on the left/right
(24) Fold / unfold boom on both sides
(25) Tilt adjustment up on the left/right
(26) Lock vibration compensation
(27) Mirror tilt adjustment (mirror slope)
(28) DistanceControl automatic / manual mode
(29) Spray nozzle equipment spacing
(30) Adjust boom height on the headland
(31) Boom up / down
(32) Adjust boom height during operation
(33) AutoTrail automatic / manual mode
(34) Move AutoTrail to centre position
(35) Move AutoTrail to the left/right
(36) Switch on part-width sections to the left/right
(37) Switch off part-width sections from the left/right
(38) Switch the left/right edge nozzle on / off
(39) Section Control on/off
(40) Reset rate back to 100%
(41) Increase/reduce rate
(42) Agitator on / off
(43) Work lights on/off
(44) AmaSelect automatic / manual mode
(45) Nozzle change
(46) Spring suspension up/down
(47) Spring suspension automatic / manual mode

4. Preparation for operation

Required tractor equipment

Version	Tractor engine power
UX 3200	Starting at 75 kW (100 HP)
UX 4200	Starting at 85 kW (115 HP)
UX 5200	Starting at 95 kW (130 HP)

- **Tractor pump capacity:**

Profi boom folding	25 l/min
Stub axle steering / drawbar steering	+ 10 l/min
Hydraulic spray pump drive	+ 50 l/min

- **Connections, depending on the implement equipment:**

  1x pressure-free return flow T, max. 5 bar

  1x pressure line P, max. 210 bar

  1x load sensing control line (optional)

  1x DA jack

- **Coupling the implement:**

  Couple the implement with the towing device of the tractor. Take the hydraulic hoses, universal joint shaft, supply line for the lighting, brake lines as well as the ISOBUS plug from the parking positions (1) and couple to the tractor. If a yaw rate sensor is used on the implement side, it is mandatory that it is connected to the tractor.

5. Procedure during operation

Filling

Suction filling of the spray liquid tank

(1) Run the pump, at least 400 rpm.

(2) Set the suction tap to "Suction via suction hose".

(3) Set the pressure tap to "Fill spray liquid tank".

(4) Set the injector switch tap to "Increase filling capacity via injector"

Pressure filling of the spray liquid tank (optional)

(5) Actuate the push button on the pressure filling to start it.

The position of the other taps on the control panel are not relevant for pressure filling.

5. Procedure during operation

Induction bowl
The induction bowl can be supplied with water through the suction connection **(1)**.
The following functions can be switched on at the induction bowl:
1. Spray pistol for cleaning the induction bowl **(2)**
2. Canister cleaning **(3)**
3. Ring line to dissolve and flush in crop protection agents **(4)**

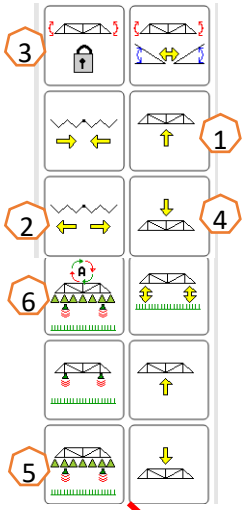
Supply via the suction connection
1. Start a suction filling of the spray liquid tank **(5)**
2. If necessary, activate the taps on the induction bowl **(2-4)**
3. To suction the induction bowl empty, set the injector switch tap to "Suction from induction bowl" **(6)**

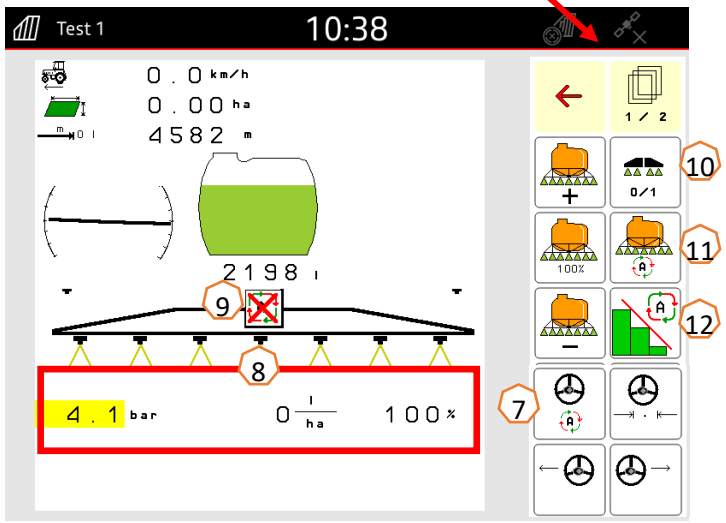
5. Procedure during operation

After the sprayer has been filled and the crop protection products have been flushing in, the pressure tap must be switched to "Spraying" (1).

Agitation
The valve chest is used to infinitely variably adjust the agitating intensity on the control panel **(2).**

5. Procedure during operation





Put the implement into working position

In the boom kinematics function group, you will find all of the softkeys for moving the boom into working position.

(1) Lift the boom.
(2) Unfold the boom to the desired working width.
(3) When the boom is completely unfolded, the boom can be unlocked.
(4) Move the boom to the desired spraying height.
(5) Save the spraying height. *
(6) Switch on the automatic boom guidance. The boom must be completely unfolded and unlocked! *
(7) Switch AutoTrail to automatic mode. **

- * Only with the optional DistanceControl boom guidance
- ** Optional

Spraying

1. Per default, the automatic rate control is activated **(11)**. Information on the application is shown under the boom, see page 5 **(8)**.
2. Switch on the main part-width section switch **(10)**.
3. Switch on Section Control **(12)**. To be able to activate this function, the following conditions must be met:
   - Section Control of the terminal (Task Controller) activated
   - Implement error free
   - Booms in working position

Depending on the setting, the softkey **(12)** may not be visible in the Implement menu, but may rather appear in the GPS view. You can find more information about the settings for Section Control in the operating manual for the implement software and the terminal.

4. You can see the status of Section Control based on the symbol **(9)**:
   - Grey X: Section Control is not active on the implement and on the terminal
   - Symbol flashing in colour: Section Control is active on the terminal, but not on the implement
   - Symbol not flashing in colour: Section Control is active on the implement and on the terminal

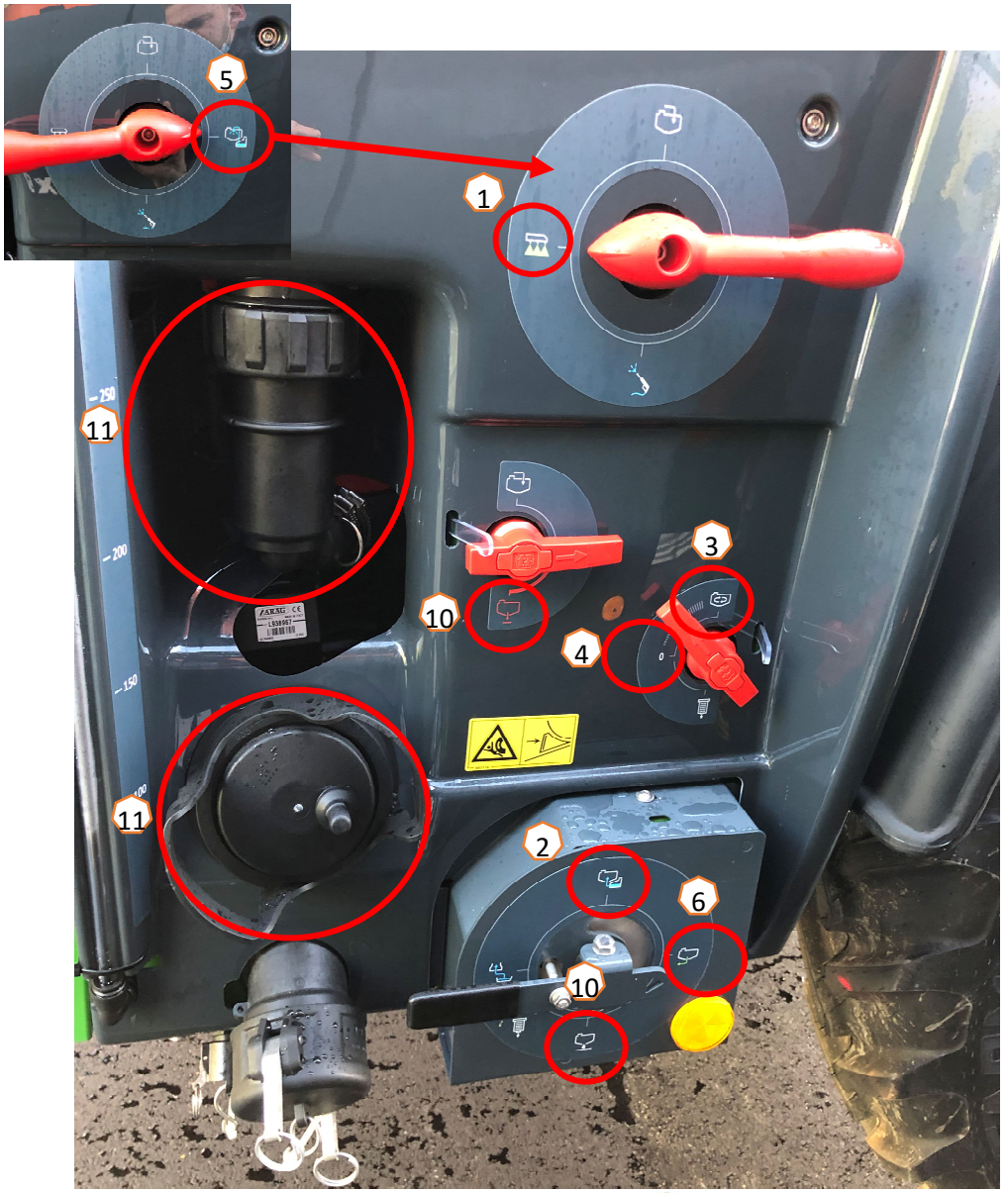
5. Procedure during operation

Manual cleaning
If the implement is equipped with a manually operated valve chest, follow these steps to perform a quick cleaning.

1. Run the pump.
2. Make sure that the pressure tap is set to the "Spraying" position **(1)**.
3. Move the suction tap to the "Suction from the flushing water tank" position **(2)**.
4. Open the agitator **(3)**.
5. After 10 % of the flushing water supply has been used up, close the agitator **(4)**.
6. Move the pressure tap to the "Cleaning" position **(5)**.
7. After another 10 % of the flushing water supply has been used up, close the cleaning **(5)**.
8. Move the suction tap to the "Suction from the spray liquid tank" position **(6)**.
9. Move the pressure tap to the "Spraying" position **(1)**.
10. Spray out cleaning water until air emerges from the nozzles. In the process, switch the part-width sections **(7)** on and off several times, and also the edge nozzles if equipped **(8)**.
11. For better cleaning results, the spray pressure can be increased manually if necessary when spraying out. For this purpose, deactivate the automatic rate control function and increase the pressure **(9)**.

For intensive cleaning, repeat the steps **1 to 11** for a total of **three times**.

12. Drain the final residual quantity **(10)**.
13. Clean the suction filter and pressure filter **(11)**.



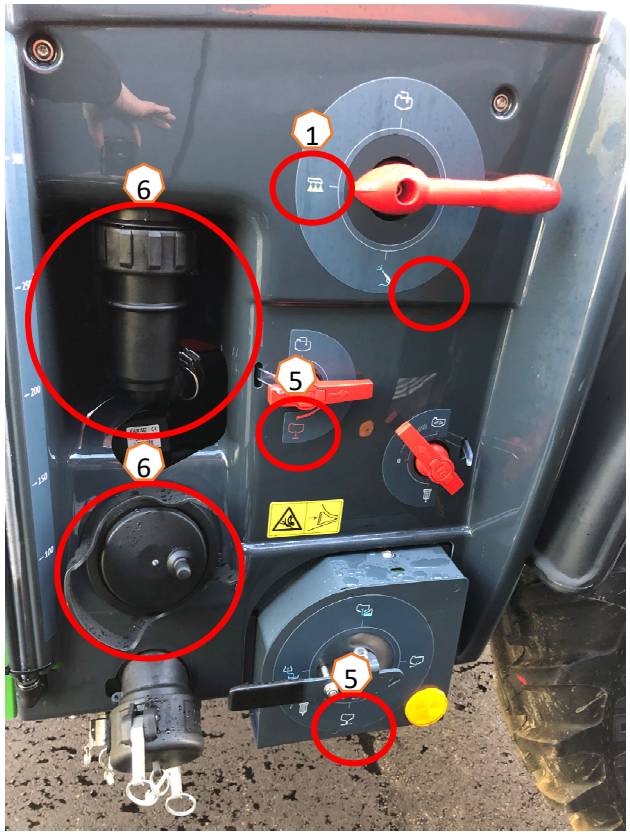
5. Procedure during operation

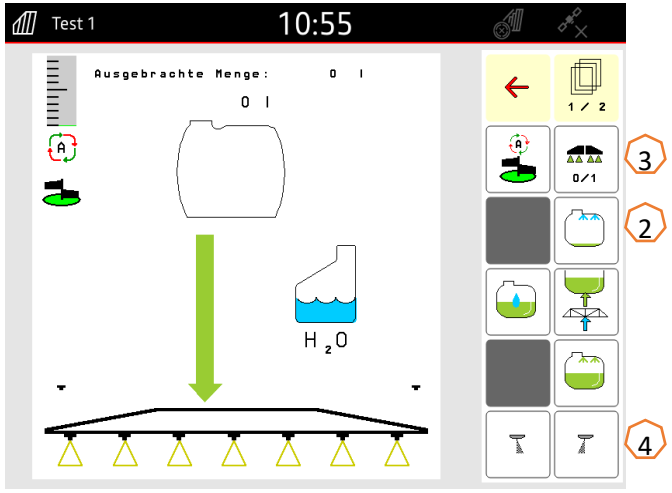
Cleaning with Comfort Package
If the implement is equipped with a Comfort Package, follow these steps to perform a quick cleaning.

1. Run the pump.
2. Make sure that the pressure tap is set to the "Spraying" position **(1)**.
3. Start the cleaning procedure **(2)**
   - The main and secondary agitators are flushed and the tank internal cleaning is switched on.
   - At a tank fill level of 4%, the cleaning procedure is automatically terminated.
4. Spray out cleaning water until air emerges from the nozzles. In the process, switch the part-width sections **(3)** on and off several times, and also the edge nozzles if equipped **(4)**.

For intensive cleaning, repeat the steps **1 to 4** for a total of **three times**.

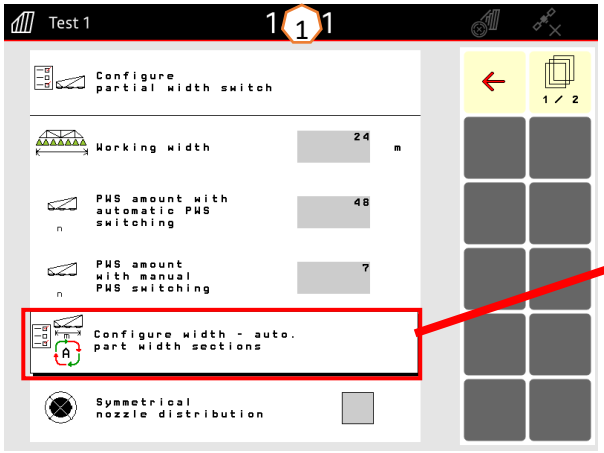
5. Drain the final residual quantity **(5)**.
6. Clean the suction filter and pressure filter **(6)**.

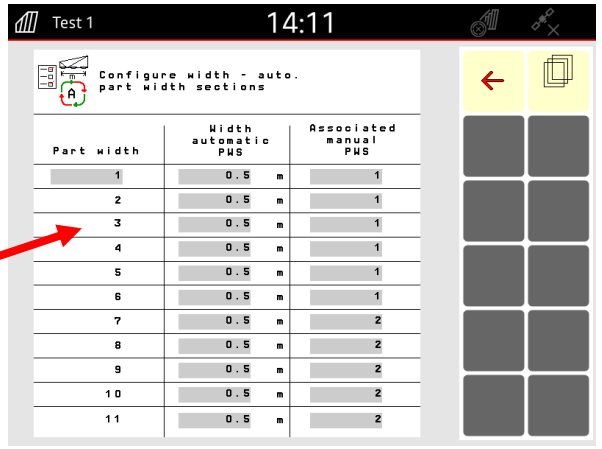


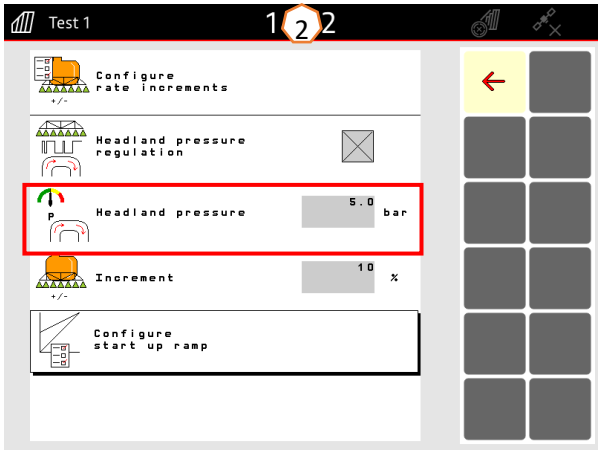


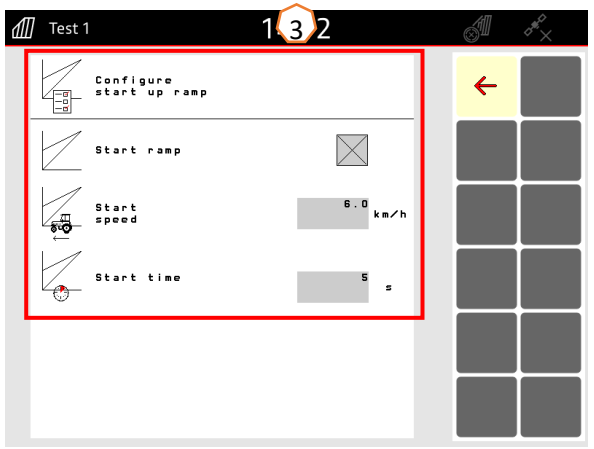
6. Software settings

- **(1) Part-width section configuration:** User profile > Configure nozzle control > Configure part-width section control. Here, each part-width section can be configured.
- **(2) Headland pressure:** User profile > Rate control. Here, the desired headland pressure can be set.
- **(3) Start-up ramp:** User profile > Rate control. Here, the "start-up ramp" can be configured. After switching on the sprayer, an increased quantity will be metered for the entered start-up time / until the entered start-up speed is reached.









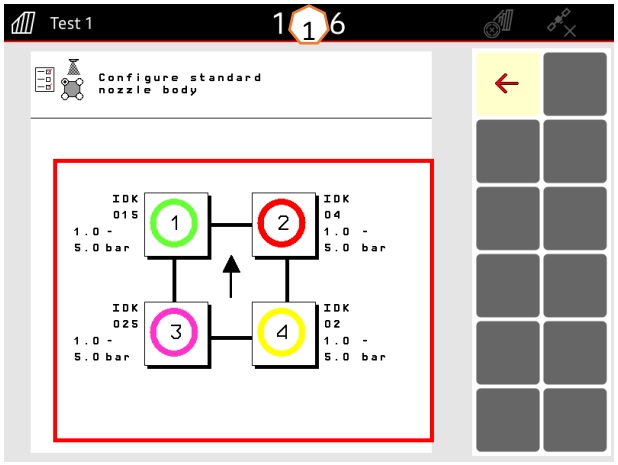
6. Software settings

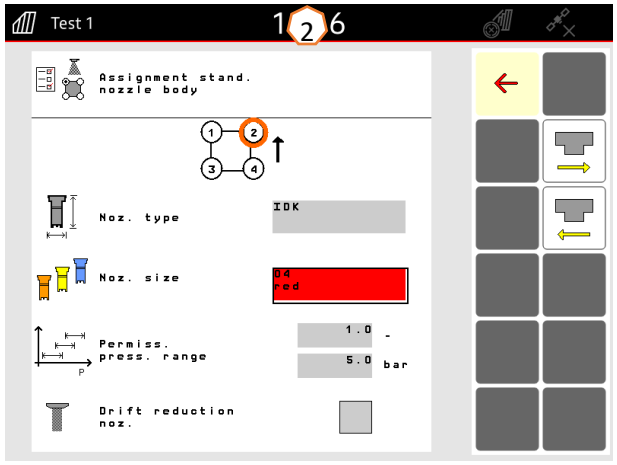
AmaSelect

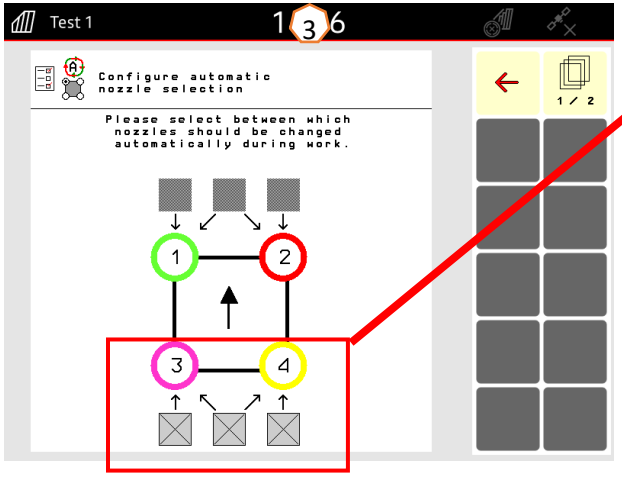
(1) The nozzles inserted in the standard nozzle body must be entered in the User profile > Configure nozzle control > Configure standard nozzle body.

(2) For each existing nozzle, the nozzle size and the pressure range are entered. The pressure range must be individually set for automatic switching between the nozzles or nozzle combinations. The set the switching behaviour, the nozzle combination to be used must first be considered. Then the right sequence for the nozzle sizes must be observed.

(3) The nozzle combination must then be selected in the User profile > Configure nozzle control > Configure automatic nozzle selection.







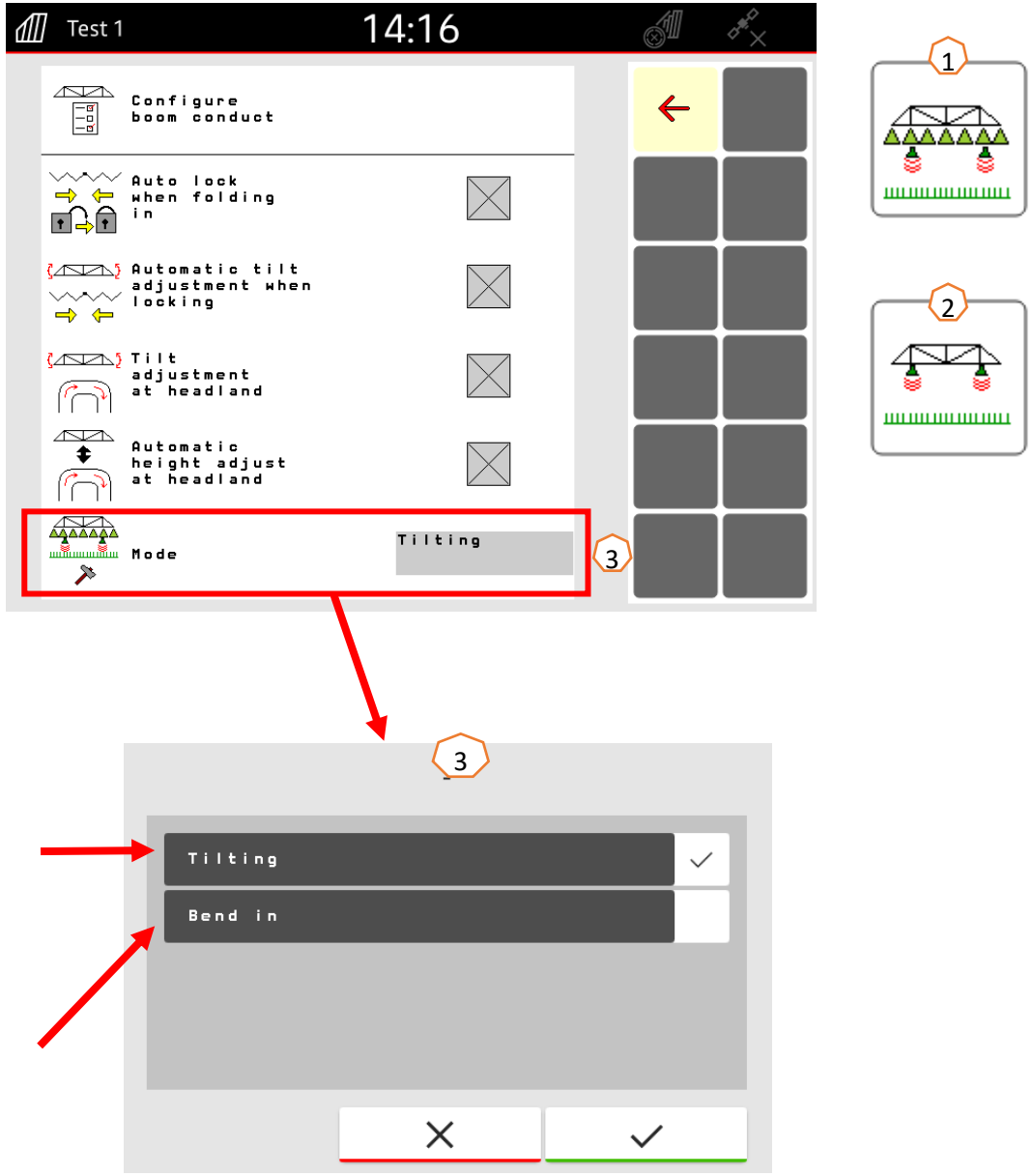
Nozzle combination	Condition
1+2	Nozzle 1 < Nozzle 2
3+4	Nozzle 4 < Nozzle 3

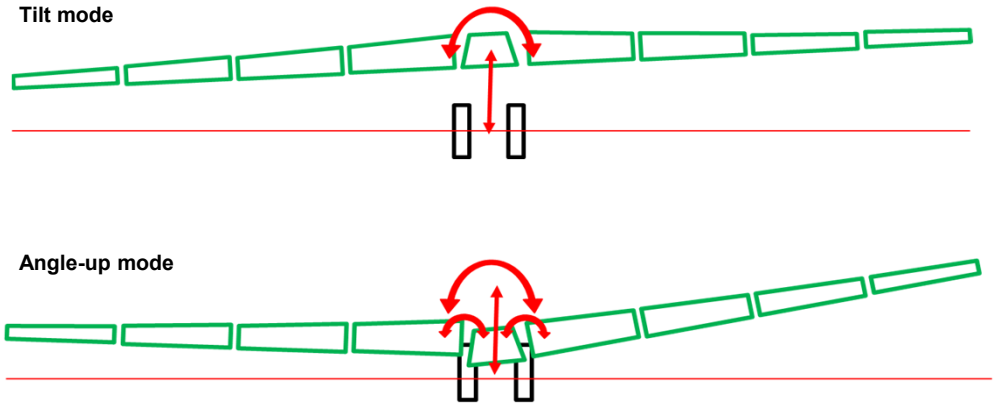
6. Software settings

DistanceControl

User profile > Configure boom behaviour

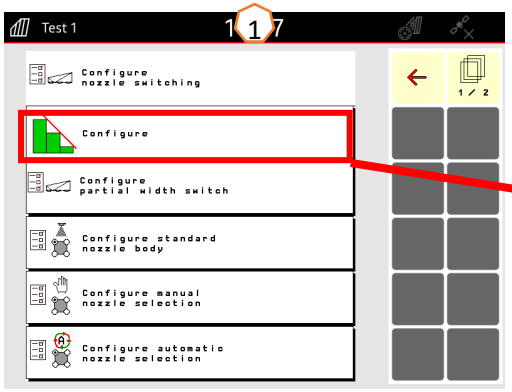
1. **Working height:** before starting operation, move the boom to the desired height and save it with the softkey **(1)**.
2. **Lifting the boom at the headlands:** move the boom to the desired headland height and save it with the softkey **(2)**.
3. **Mode:** Profi-folding 1 (tilting) or Profi-folding 2 (angling) **(3)**.
4. **Distance sensors** can be deactivated if necessary. With DistanceControl, this is achieved by unplugging the sensors. This can be necessary, for example, with a reduced working width, if a sensor is looking onto a tramline or in case of failure of one of the sensors.

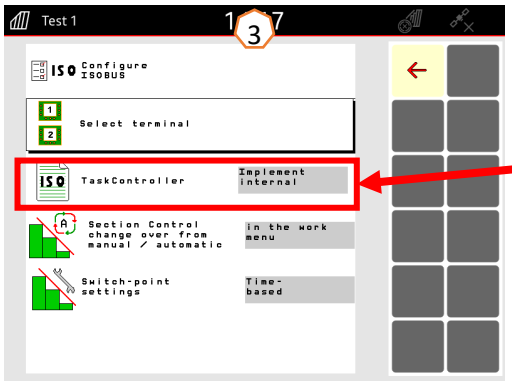


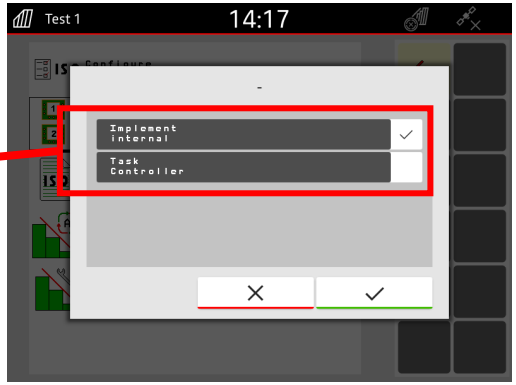


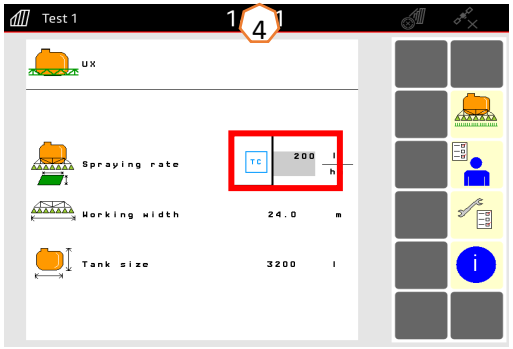
7. Preparations on the implement - Task Controller

- **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.
- (1,2) **Switch-on and switch-off time:** user profile > ISOBUS. These times define the delay between the moment when the terminal issues the command to switch the part-width sections on or off and when the implement really executed this command. Incorrect settings can cause overlaps or gaps.
- (3) **Task Controller:** user profile > ISOBUS. Under the Documentation point, there is the choice between "Implement internal" and "Task Controller".
- (4) **Application maps / jobs:** 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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