Orientation Aid for the Start of the Season

MG7198-EN-GB

UF 02 - ISOBUS CP



TABLE OF CONTENTS

1. General instructions

2. Homepage of the machine software

3. Work menu of the machine software

4. Preparation for operation

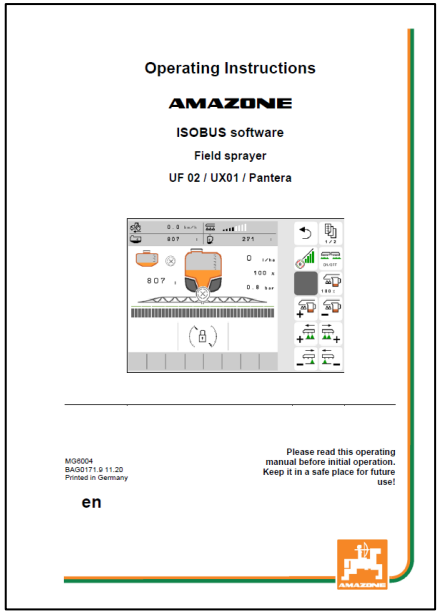
5. Procedure during operation

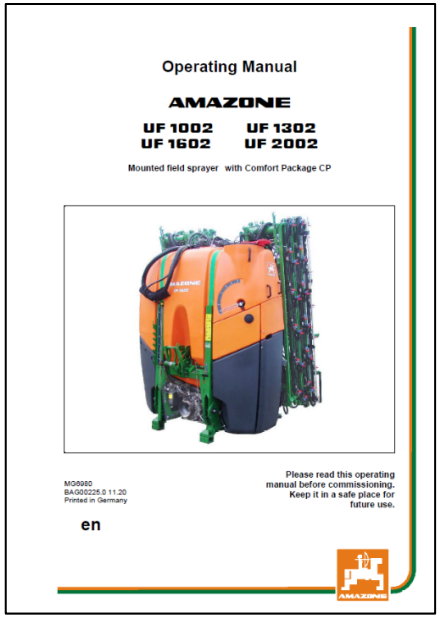
6. Software settings

7. Preparations on the machine - Task Controller

1. General information

- Use of this document requires that the operating manuals for the machine 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 available when performing the orientation aid for the start of the season with the UF 02.
- The Orientation Aid for the Start of the Season - **UF 02 ISOBUS CP** document serves as a guideline for the user to check the machine for the new season and to put it back into operation. The illustrations and screenshots in this document are based on the 2021 model year, and software version **NW242-F** is only valid for these machines. There can be differences in the figures and screenshots for a machine from a different model year and/or a different software version.



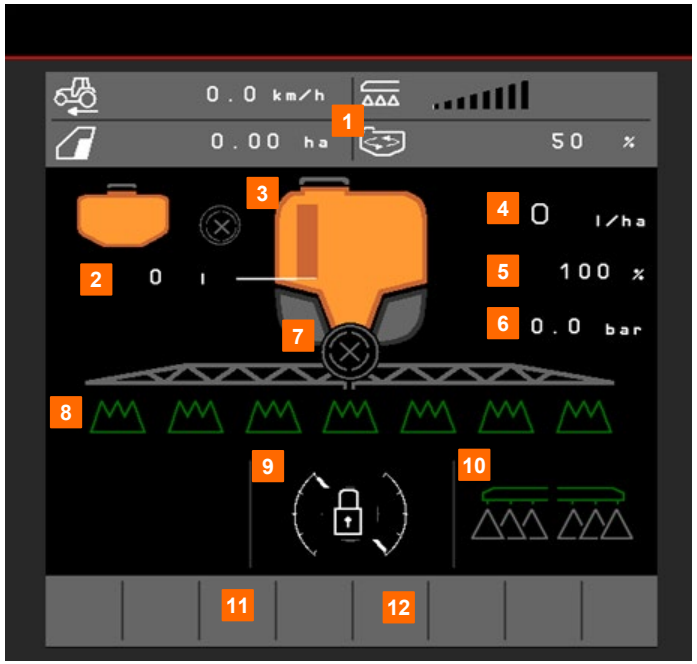


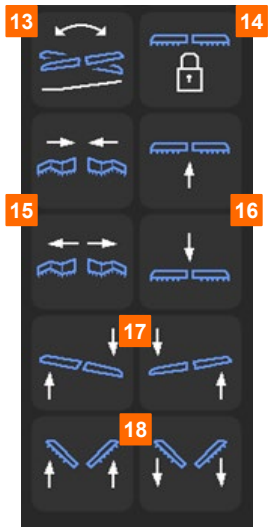
2. Homepage of the machine software

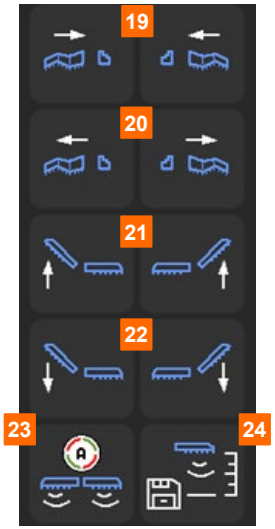
- The Main menu is divided into the Field menu (**1**) and the Settings menu (**2**).
- The menus can be switched by clicking on one of the marked buttons.
- From the Field menu, you can switch to the submenus Work, Documentation, Filling, Cleaning and Agitation. It is also possible to enter the desired application rate in l/ha here.
- From the Setting menu, you can switch to the submenus machine, Profile and Info.

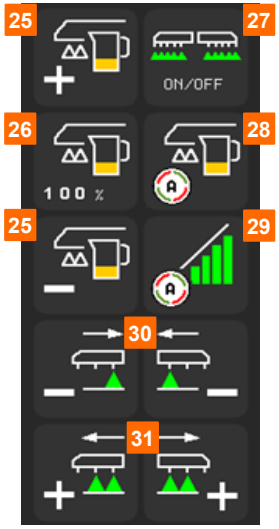


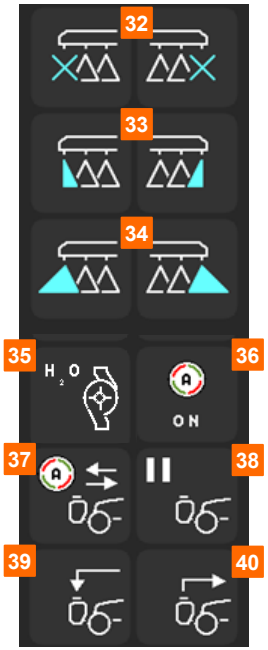
3. Work menu of the machine software











***The buttons depend on the equipment**

(1) Multi-function display, freely configurable, see operating manual for more information
(2) Display of the total fill level
(3) FlowControl+ status*
(4) Application rate
(5) Percent value of the application rate
(6) Spray pressure
(7) Section Control status
(8) Part-width section status
(9) Boom status display
(10) Edge nozzle status*
(11) Boom illumination status*
(12) Flushing water pump status*
(13) Mirror tilt adjustment
(14) Lock/unlock boom
(15) Fold/unfold boom on both sides
(16) Boom lifting / lowering
(17) Tilt boom to right/left
(18) Angle boom up/down on both sides
(19) Fold boom on one side on the left/right*
(20) Unfold boom on one side on the left/right*
(21) Angle boom up on one side on the left/right*
(22) Angle boom down on one side on the left/right*
(23) Switch DistanceControl automatic boom guidance on/off *
(24) Save spraying height
(25) Increase/reduce application rate
(26) Reset application rate percent value to 100%
(27) Switch spraying on/off
(28) Switch automatic rate control on/off
(29) Switch on Section Control
(30) Switch part-width sections off
(31) Switch on the part-width sections
(32) Switch end nozzles off/on *
(33) Switch boundary nozzles off/on*
(34) Switch extra nozzles off/on*
(35) Switch flushing water pump on/off*
(36) Switch automatic functions on, freely configurable
(37) Switch automatic FlowControl+ on/off*
(38) Stop FlowControl+ pumping*
(39) FlowControl+ pump to the front*
(40) FlowControl+ pump to the rear*

NOTE

Use the free button assignment in the profile to move the buttons to the desired position.

4. Preparation for operation

Tractor requirements - UF02

Version	Tractor engine power
UF1002	Above 55 kW (75 HP)
UF1302	Above 66 kW (90 HP)
UF1602	Above 90 kW (125 HP)
UF2002	Above 110 kW (150 HP)

Tractor pump output

- Profi boom folding 25 l/min
- Hydraulic pump drive + 50 l/min

Connections

Depending on the machine's equipment, the following connections are required:

- 1x pressureless return flow T (max. 5 bar)
- 1x pressure line P (max. 210 bar)
- 1 x load sensing control line

Or:

- 3x DA height adjustment, boom folding and tilt adjustment

Or:

- 2x DA height adjustment, tilt adjustment

1



2



3



4. Preparation for operation

Coupling the machine

When coupling the tractor to the mounted sprayer for the first time, it is essential to observe Section 8 of the machine's operating manual.

To couple the sprayer with the quick-coupling system, the lever must be set to the raised position when approaching (**1**).

If necessary, adjust the length of the top link so that the quick-coupling system can be locked.

Pick up the machine with the lower links and couple the top link, secure the machine. Fold in the parking rollers / parking support.

Take the ISOBUS, lighting, hydraulic system, universal joint shaft, hose lines (front tank) from the parking positions (**2**) and couple them. Align the machine horizontally (**3**). Pay attention to the ballasting and dimensions of the machine combination (UF+FT). Depending on the road traffic regulations, use front cameras or a banksman for road travel.

1



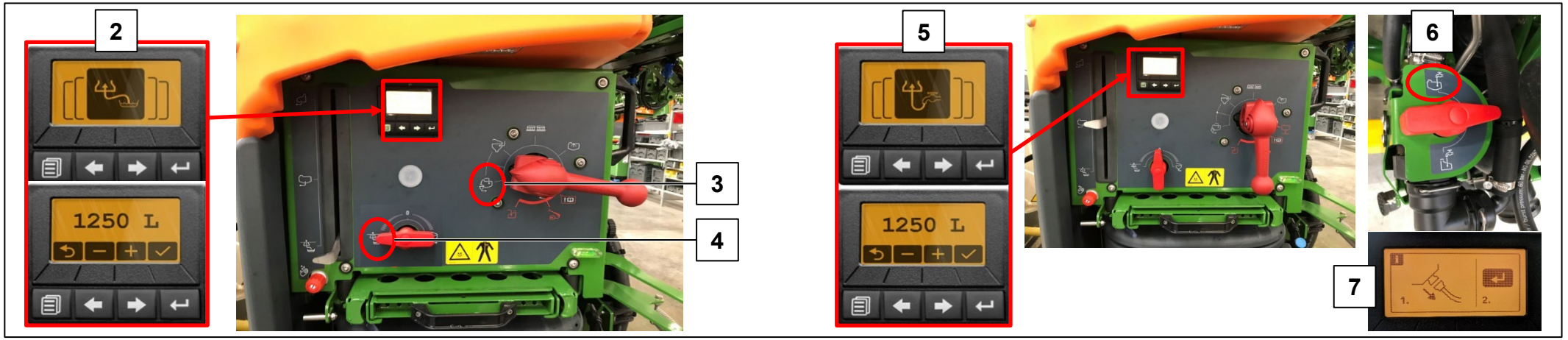
2



3



5. Procedure during operation



Filling

Spray liquid tank suction filling:

(1) Run the pump.

(2) Select Suction filling on the TwinTerminal and enter the target fill level.

(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) Select Pressure filling on the TwinTerminal and enter the target fill level.**

(6) Set the pressure filling switch tap to "Fill spray liquid tank".

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

(7) Observe the instructions on the TwinTerminal to relieve the pressure hose.**

**** Only with electric filling stop!**

5. Procedure during operation

Induction bowl

The induction bowl can be supplied via:

- the suction connection
- the pressure connection (optional)

with water (**1**).

The following functions can be switched on at the induction bowl:

1. Spray pistol for cleaning the induction bowl (**2**)
2. Mixing nozzle for flushing in powders or granulates (**3**)
3. Canister cleaning (**4**)
4. Ring line to dissolve and flush in crop protection products (**5**)

Supply via the suction connection:

1. Start a suction filling of the spray liquid tank (**6**)
2. Set the pressure tap to the "+" position (**7**)
3. If necessary, activate the taps on the induction bowl (**2-5**)
4. To suction the induction bowl empty, set the injector switch tap to "Suction from induction bowl" (**8**)
5. To increase the pressure on the induction bowl, e.g. for canister cleaning, set the pressure tap to "Supply induction bowl". Caution! The induction bowl is not suctioned empty in the process (**9**)



5. Procedure during operation

Supply via the pressure connection:

1. Start the pressure filling
2. Pressure filling supply (**1**)
3. Pressure tap in the "+" position (**7**)
4. Run the pump
5. Suction the induction bowl empty (**8**)
6. For more pressure, e.g. for canister cleaning, stop the pressure filling



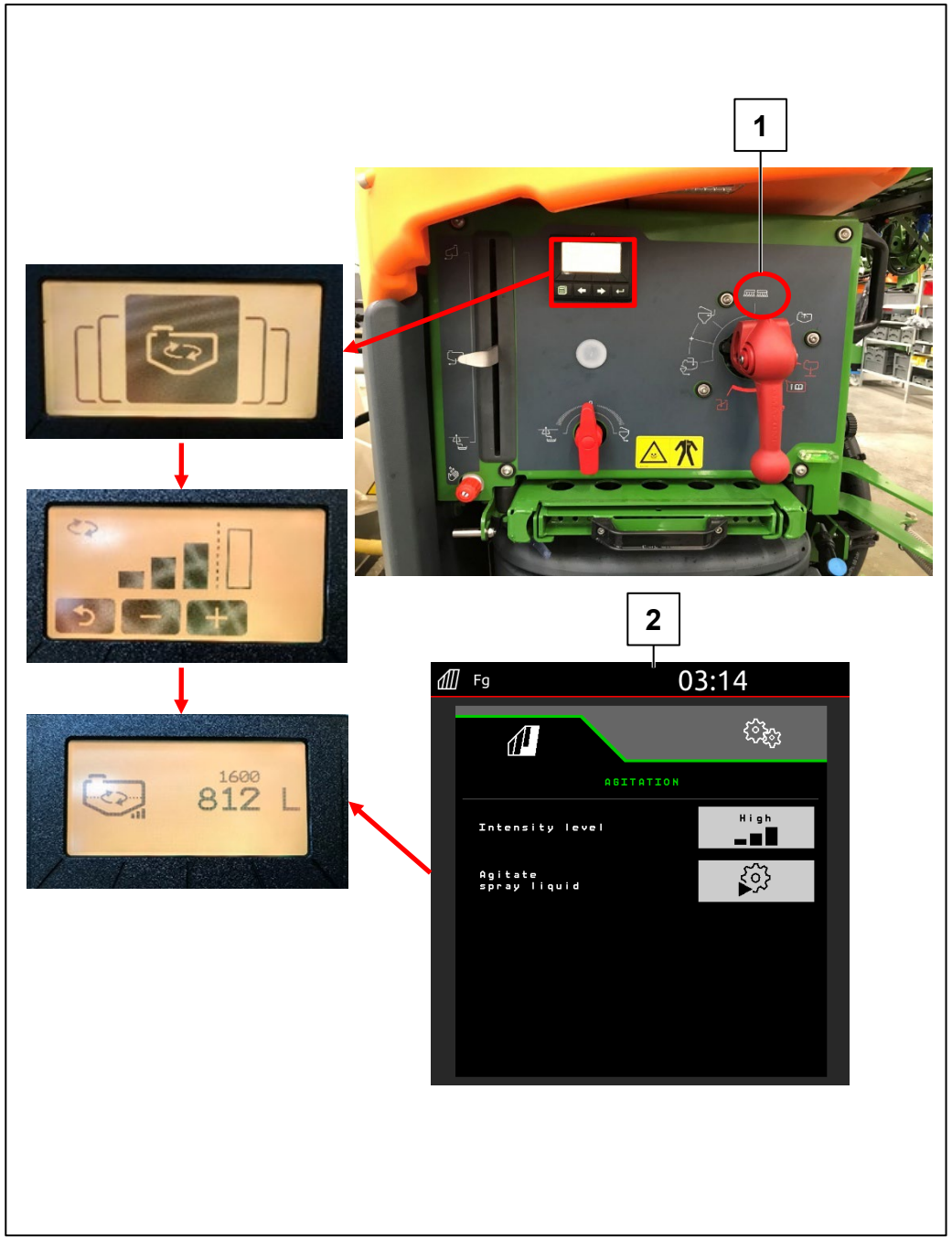
5. Procedure during operation

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

Automatic agitator control depending on the fill level:

- With the Comfort Package, the desired agitation level can be set on the TwinTerminal (**2**) or on the control terminal (**3**) (Field menu / Agitation).

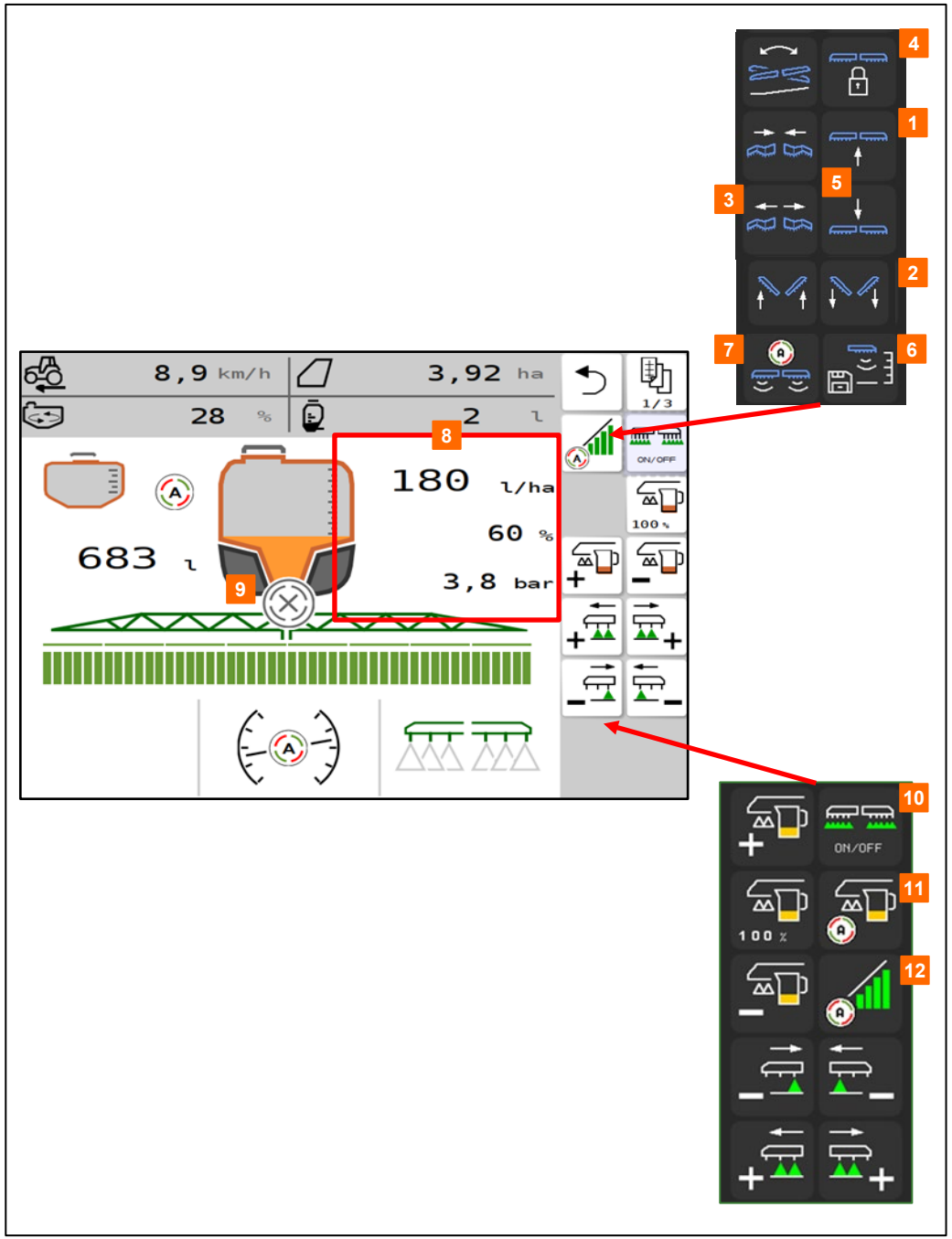


5. Procedure during operation

Move boom to working position

(1) Lift the boom.
(2) With Profi-folding 2, angle the boom completely up on both sides.
(3) Unfold the boom to the desired working width.
(4) When the boom is completely unfolded, the boom can be unlocked.
(5) Move the boom to the desired spraying height.
(6) Save the spraying height.*
(7) Switch on the automatic boom guidance. The boom must be completely unfolded and unlocked!*

* Only with the optional DistanceControl boom guidance.



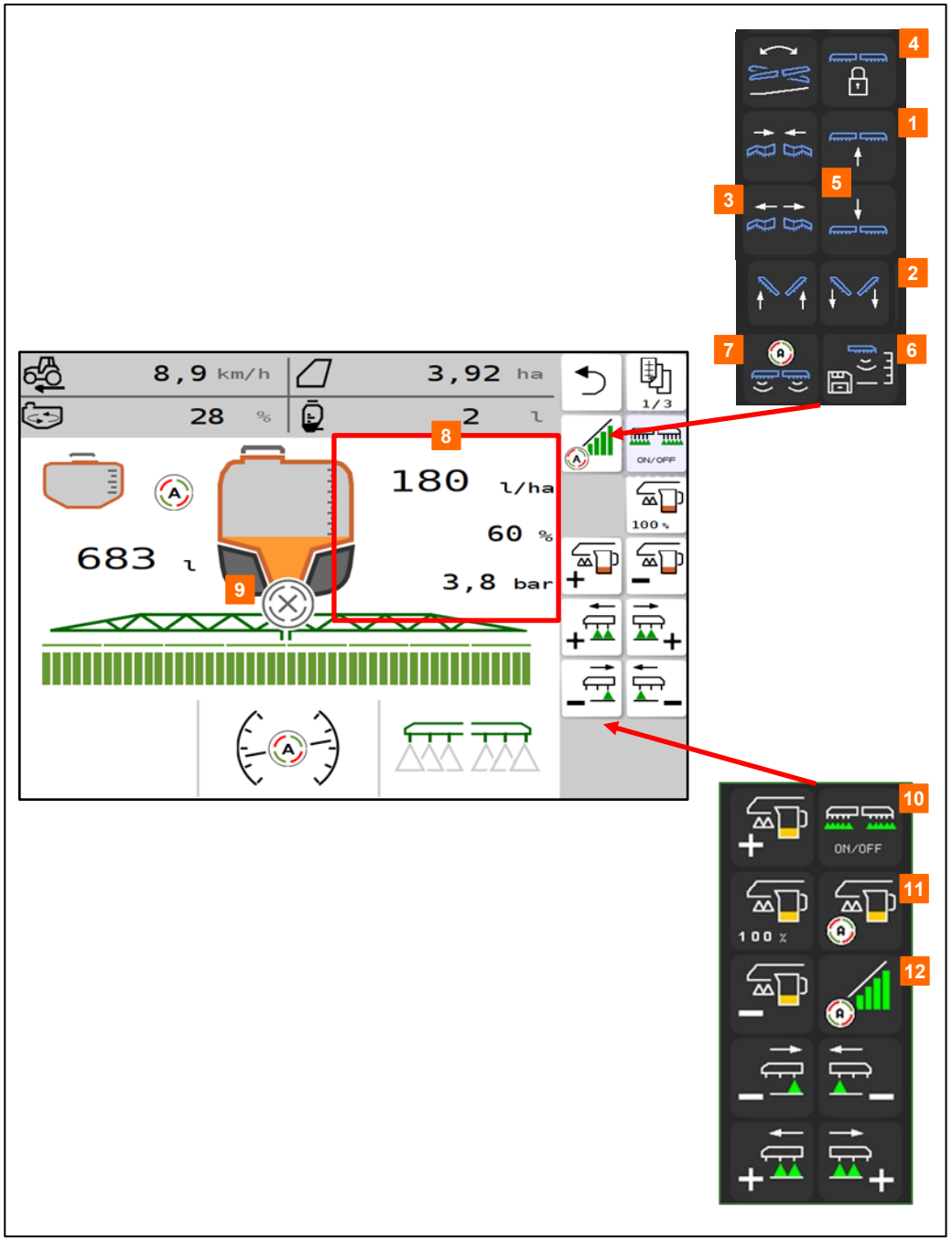
5. Procedure during operation

Spraying

1. Per default, the automatic rate control is activated (**11**). Information on the application are shown on the right of the spray liquid tank (**8**).
2. Switch on the main section shut-off (**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
   - Machine error free
   - Booms in working position

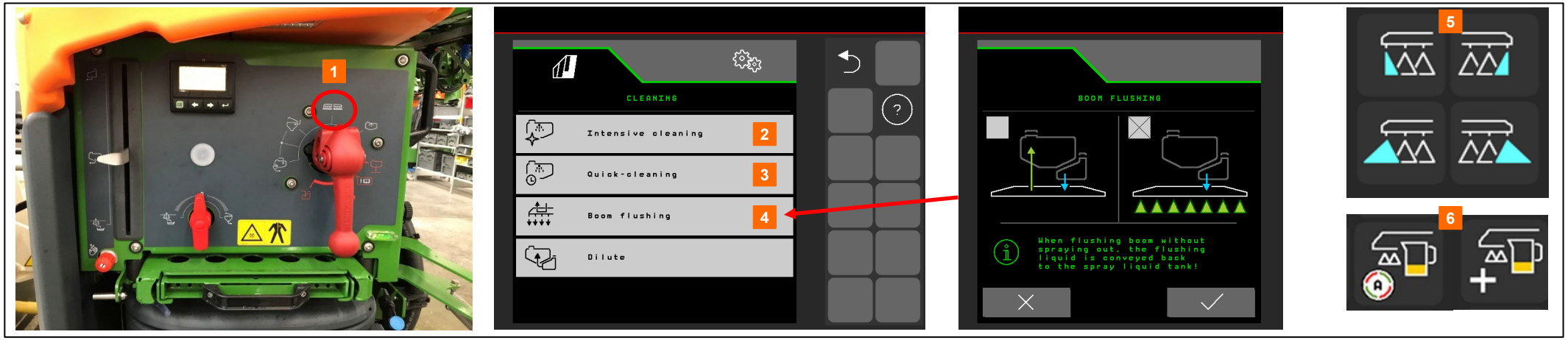
Depending on the setting, the button (**12**) may not be visible in the Machine menu, but may rather appear in the GPS view. For further information on the Section Control settings, please refer to the operating manual for the machine software and the terminal.

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



5. Procedure during operation

Cleaning



Cleaning program:

Various cleaning programs are available in the Cleaning menu.

(1) Please note that the pressure tap must remain set in the "Spraying" position when starting a cleaning program!

(2) Intensive cleaning is suitable before a critical agent change.

(3) Quick cleaning is suitable for daily cleaning of the sprayer.

(4) It is recommended to flush the boom before interrupting work. Select whether the spray liquid should be sprayed out or routed back to the tank. After successful flushing, you must first switch off the pump drive and then exit the "Flush boom" menu.

(5) During the cleaning program, switch the edge nozzles on and off, if necessary.

(6) 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.

6. Software settings

(1) Configuring the part-width sections:
Settings menu/Profile/Part-width section control. Here, each part-width section can be configured.

(2) Headland pressure:
Setting menu/Profile/Rate control. Here, the desired headland pressure can be set.

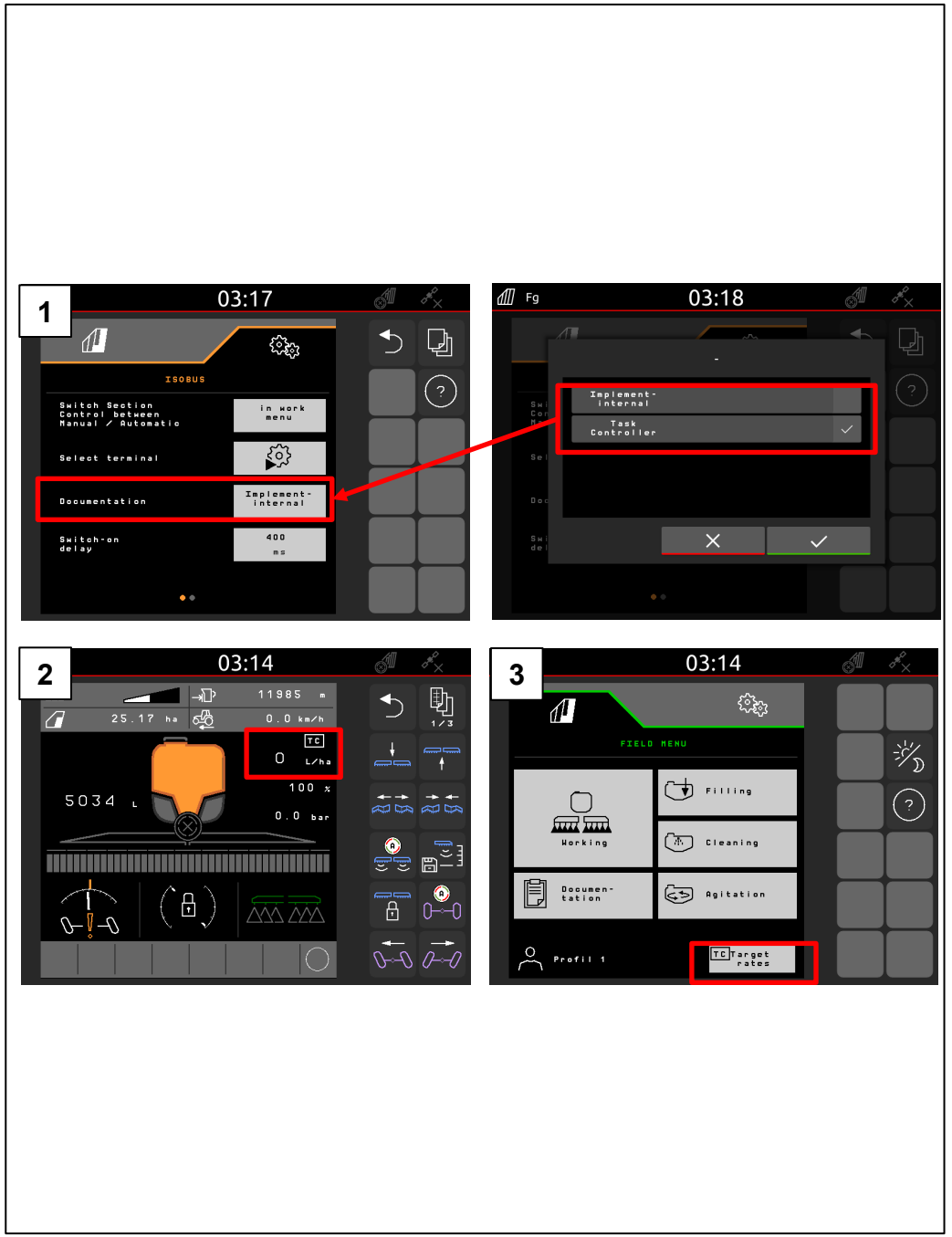
(3) Start-up ramp:
Setting menu/Profile/Rate control. Here, the "start-up ramp" can be configured. After switching on the sprayer, an increased quantity will be metered for the entered start-up time / until the entered start-up speed is reached.

(4) Configuring the working height and headland height:
Setting menu/Profile/Boom behaviour. The working height can be set in cm and the headland height in steps: off, low, medium, heigh, and maximum.



7. Preparations on the machine - 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**) Task Controller:
  Setting menu/Profile/ISOBUS. Under the Documentation point, there is the choice between "machine internal" and "Task Controller".
- (**2**, **3**) Application maps / jobs:
  The "TC" icon in the Work menu and Field menu indicates that the machine is receiving the target application rates from the Task Controller (application map or job).



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After Sales
Service training
Heinrich-Dreyer-Straße 15
D-27798 Hude

trainingcenter@amazone.de
www.amazone.de