

Operating instructions ISOBUS Software (FW E231 3165)



Company details

Wilhelm STOLL Maschinenfabrik GmbH

PO box 1181, D-38266 Lengede Bahnhofstr. 21, D-38268 Lengede Telephone: +49 (0) 53 44/20 2

Telephone: +49 (0) 53 44/20 222
Fax: +49 (0) 53 44/20 182
Email: info@stoll-germany.com
Web: www.stoll-germany.com

Spare Parts Order

Telephone: +49 (0) 53 44/20-144 and -266

Administration

Telephone: +49 (0) 53 44/20-145 and -146

Fax: +49 (0) 53 44/20-183
Email: parts@stoll-germany.com

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The original instructions were written in the German language.

Instructions in other languages were translated from German.

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1 Start-up

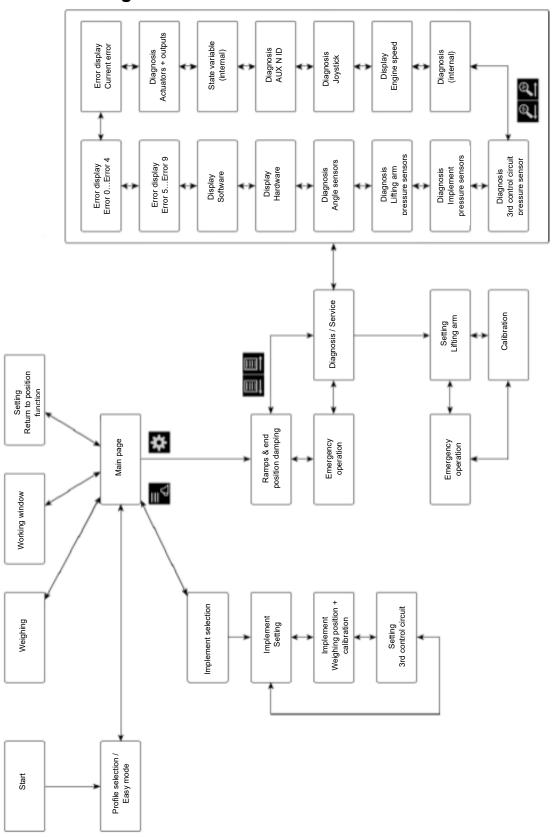
1.1 Start procedure based on the example of the Deutz VT6150.4 TTV

To be able to work with the front loader, the following steps must be performed each time the tractor is started.





2 Menu navigation



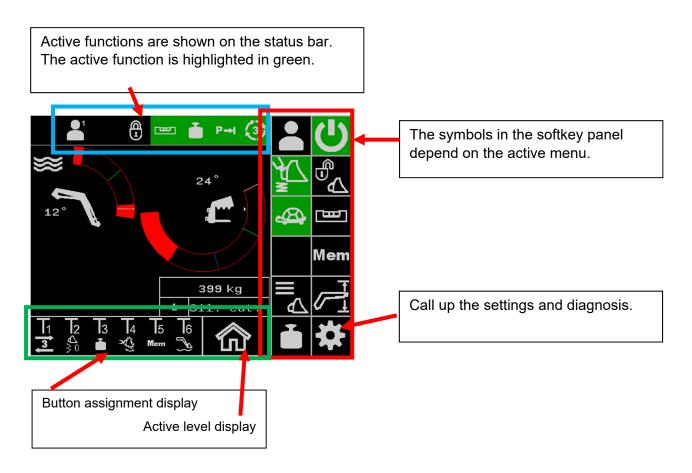


3 Page layout

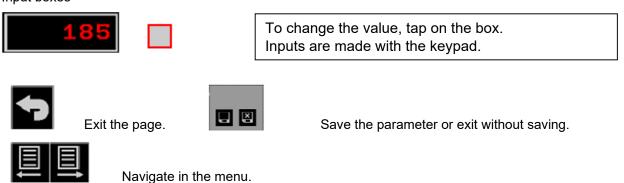
The active functions are shown on the status bar at the top edge of the screen.

On the right edge of the screen, there are up to 12 softkeys, depending on the active menu.

At the bottom edge of the screen, there is the display panel for the button assignment and the active level.



Input boxes



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3.1.1 Symbols

Symbols in the status bar



Parallel leveling



Implement locking mechanism



Weighing



Pressure control for 3rd control circuit



Continuous mode for 3rd control circuit



Tip-over protection active / implement info

Symbols for the button assignment



Weighing



3rd control circuit



Parallel leveling off



Return to position



Float position



3rd control circuit page A



Bucket shake



Load-independent lowering implement off



3rd control circuit Page B



Implement zero position

Symbols for the menu pages



Profiles



Implement selection



Emergency operation



Main page



Implements setup



Diagnosis



Weighing



Weighing setup



Lifting arm setup



Working window



3rd control circuit setup



Calibration



Return to position setup



Ramps and vibration damping

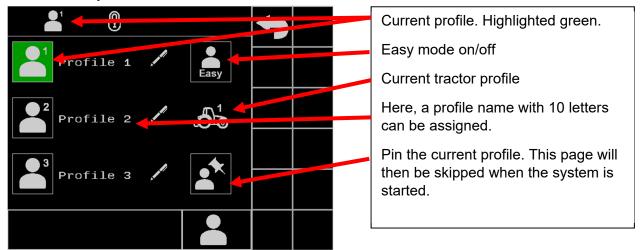


Emergency operation



4 Menu pages

4.1 Driver profiles



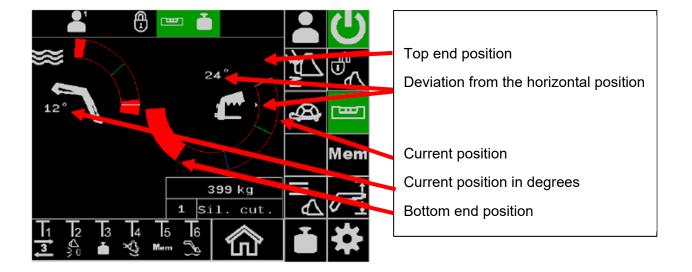
Easy mode

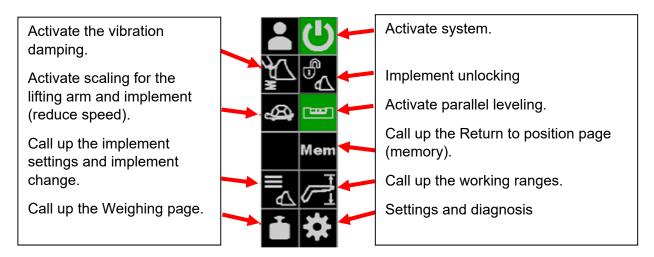
In Easy mode, only a limited menu selection is available. Fixed values are set for the ramps, scaling, fine controls and end position damping.

4.2 Main page









Move to the memory position:

Press the button and move the joystick in the direction of the desired position.

Trigger the bucket shake:

Press the button and at the same time, move the implement axis using the joystick. The amplitude of motion is determined by moving the joystick.

Activate the 3rd control circuit:

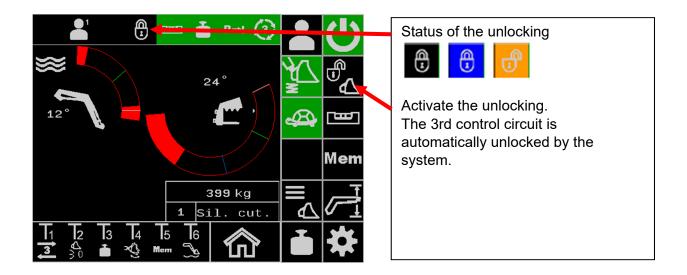
Press the button and move the implement axis using the joystick.

Activate the float position:

When the float position is activated, press the button and move the joystick in the lowering direction (lifting arm or implement). Pressing the button again deactivates the float position.



4.2.1 Implement change



Procedure for implement unlocking and locking

Implement unlocking is only possible when the current position of the lifting arm is $\leq 25^{\circ}$.



When the softkey is actuated, it is highlighted blue.



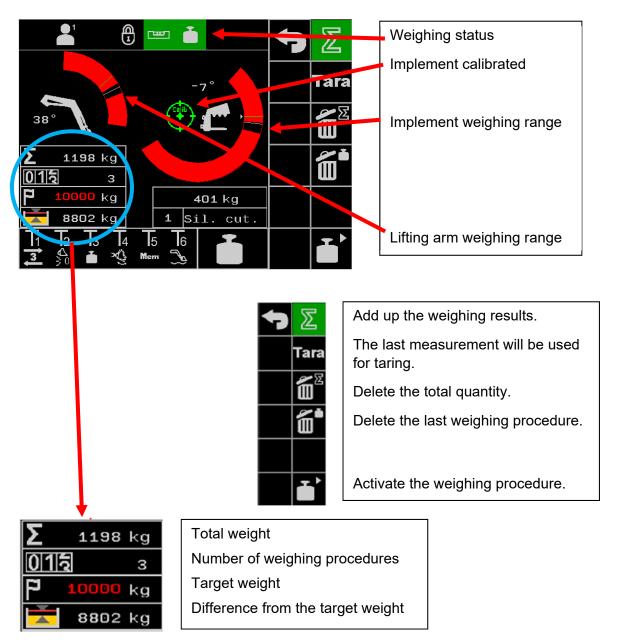
By pressing on the symbol highlighted blue again, the lock will be opened. Unlocking of the 3rd control circuit is performed automatically by the system. The symbol is highlighted orange and indicates that the lock is open.



If the symbol highlighted orange is actuated, the lock is closed again. The symbol is highlighted black



4.3 Weighing page



Triggering the weighing procedure

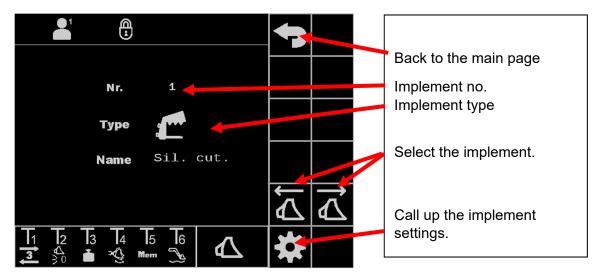
Press the softkey, move the joystick to the lifting position and hold it there. The lifting arm and implement move to the weighing range (Pos. 2/3 of the defined range). The status symbol flashes green. When the weighing position has been reached, the weighing procedure begins. The status symbol is constantly green. When the weighing procedure is complete, the status symbol disappears again. A successful weighing procedure is indicated with an acoustic signal. If the weighing procedure is aborted or an error occurs while weighing, the status symbol turns orange for 5 s. If the implement is not calibrated, the status symbol flashes orange for 5 s. The weighing counter and the weighing total are automatically saved.

To achieve the most precise weighing results possible, the following conditions should be met:

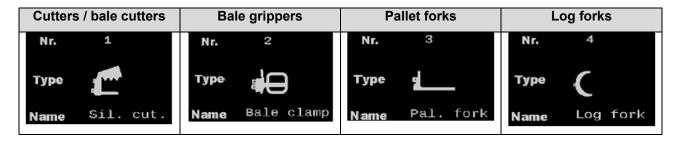
- Weigh on level ground.
- · Do not weigh while driving.

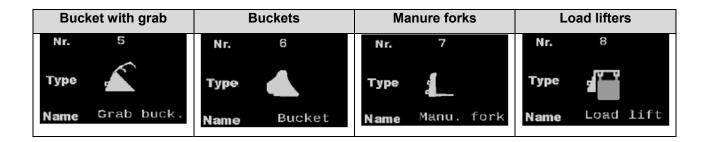


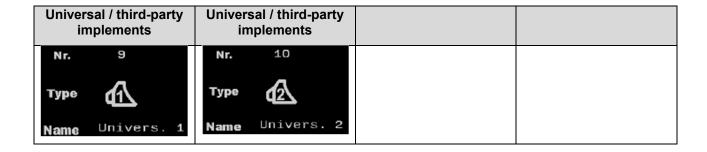
4.4 Implement selection



4.4.1 Available implements

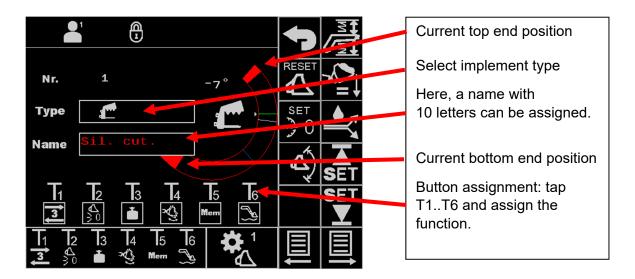








4.5 Implement settings



Exit the page with or without saving.

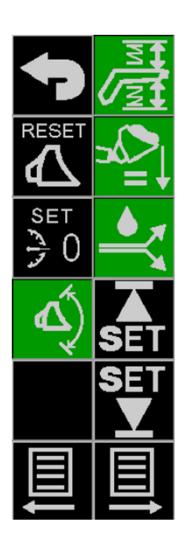


Reset all implement settings

Set the zero position. The current position will be adopted.

Activate the working ranges.

Go to the previous page.



Activate the end position damping.

Activate the load-independent lowering.

Activate flow sharing.

Set the top end position. The current position will be adopted.

Set the bottom end position. The current position will be adopted.

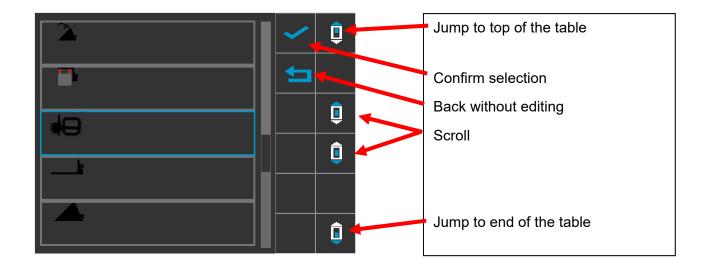
Go to the next page.



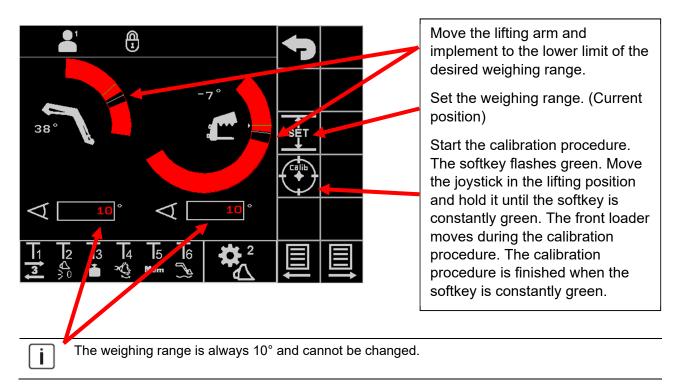
4.5.1 Implement selection

Mark the mounted implement and confirm.

The display depends on the display utilised in the vehicle.

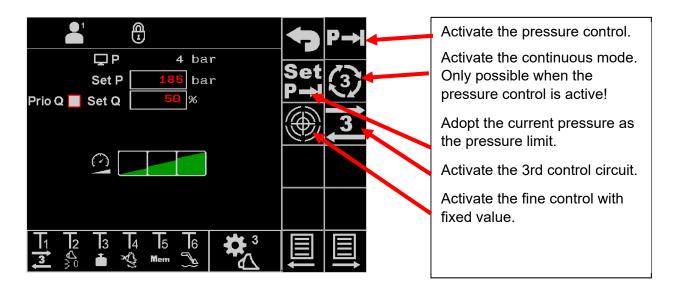


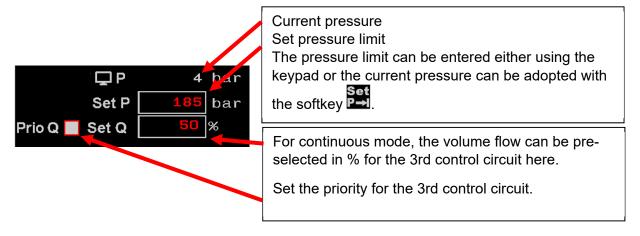
4.6 Calibrating the weighing position

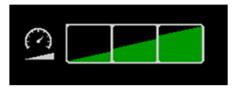




4.7 Setting the 3rd control circuit





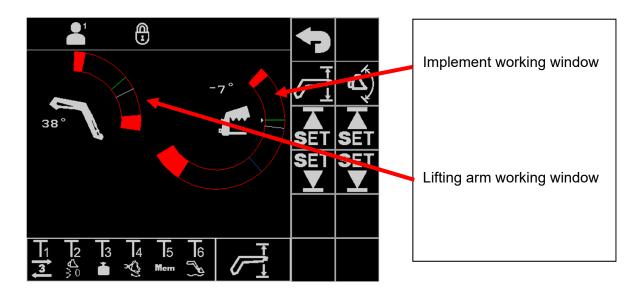


Scaling low, medium, high

100 % joystick movement corresponds to predefined speeds.



4.8 Adjusting the working window

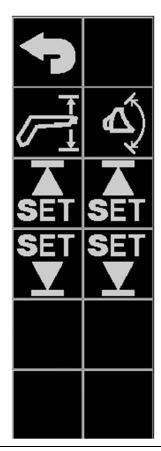


Exit the page with or without saving.

Activate the lifting arm working window.

Set the top range.
Adopt the current position.

Set the bottom range.
Adopt the current position.



Activate the implement working window.

Set the top range. Adopt the current position.

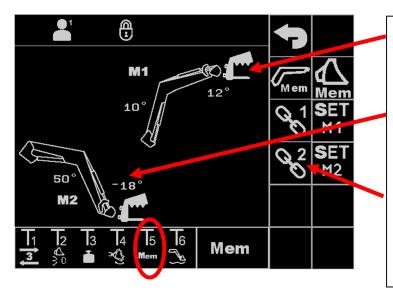
Set the bottom range.

Adopt the current position.

The implement range can only be deactivated when no working range is activated in the implement settings. For FZ IB+ front loaders, the implement range cannot be deactivated.



4.9 Return to position function



Positions for Memory 1 Move to position: press T5 and move the joystick in the lifting direction.

Positions for Memory 2 Move to position: press T5 and move the joystick in the lowering direction.

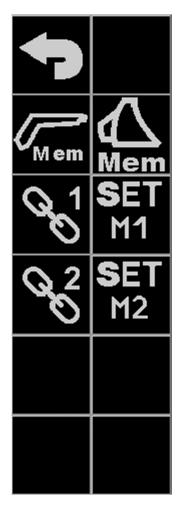
Linked mode: press T5 and move the joystick in the lift lifting arm (M1) or lower lifting arm (M2) direction. Move the lifting arm and implement to the defined position.

Exit the page with or without saving.

Activate the lifting arm memory positions.

Activate linked mode for Position 1.

Activate linked mode for Position 2.



Activate the implement memory positions.

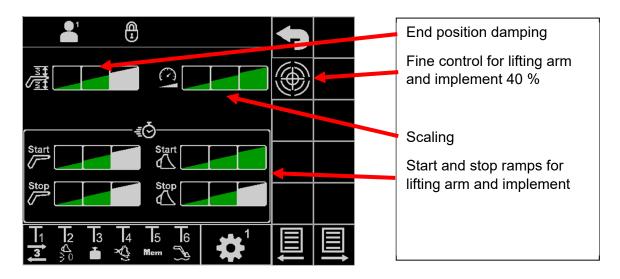
Set memory positions M1.

Adopt the current position of the active function.

Set memory positions M2. Adopt the current position of the active function.



4.10 Setting the end position damping, speed mode and ramps



	Low	Medium	High
End position damping	8°	15°	25°
Scaling	25 %	45 %	65 %
Start/stop ramps	200 ms	600 ms	1000 ms

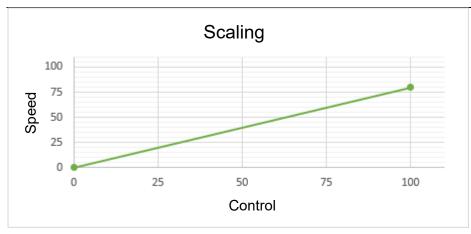
End position damping

End position damping enables gentle movement to the end positions, without damaging the materials. The speed is automatically progressively reduced just before reaching the mechanical end position, until the end position is reached. 3 levels can be selected for starting the braking procedure.

Scaling

With the scaling, the speed can be reduced across the entire range. A value of 65 means a speed of 65 % for 100 % joystick movement.

The values set here are only active when they were activated on the main page with the softkey.



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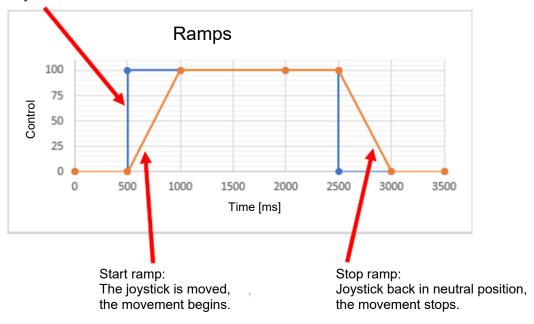


Start/stop ramps

The adjustable response behaviour function enables gentle starting and stopping of the movement. The specified time always refers to a target value jump of 100 %.

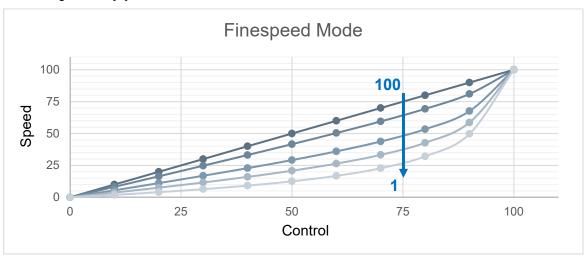
Example: with an entered time of 600 ms, the control signal reaches the maximum value for the control at 100 % joystick movement after 600 ms.

Joystick movement



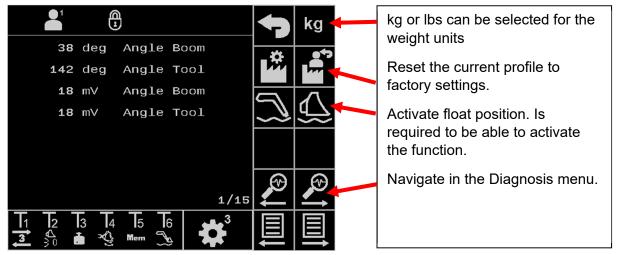
Fine control

With the fine control, the valve movement can be reduced in the lower range of the joystick movement and therefore increase the resolution of the joystick in the lower range. 100 % speed is always reached at the maximum joystick movement. The smaller the value selected for the fine control, the finer the control in the lower range of the joystick movement.





4.11 Lifting arm settings



4.12 Tip-over protection

The tip-over protection symbol appears in the status bar when the following conditions are met:

- The angle of the lifting arm is greater than the lifting arm angle set for the tip-over protection and the total angle was reached. The implement then cannot be scooped any further.
- The total angle consists of the angle of the lifting arm and the angle of the implements. The total angle determines the maximum lifting height. The limitation of the lifting height caused by the total angle aims to prevent hazards to the operator, e.g. by dumping the load on the tractor.
 - The implement is at the upper mechanical stop. The lifting arm then cannot be lowered any further. (Only for FZ IB+ front loader).
 - The implement type or name was changed in a different profile. The symbol disappears again after switching to the Implement selection menu.



4.13 Emergency page

On this page, the lifting arm, the implement and the 3rd control circuit can still be operated in case of failure of the joystick in the vehicle, for example.

