

FORMER

Rotary rake

14055 PRO DB
FEF 20001



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2 Safety

2.1 Intended use

The rotary rake is used to rake together cut stalks lying on the ground into a centrally deposited swath. To do so, the machine must be in the working position. This machine has been constructed exclusively for normal use in agricultural or similar tasks.

Any other type of use is considered unauthorized. The manufacturer accepts no responsibility for any damage caused by improper use. The user alone is responsible for this.

"Proper use" includes:

- Observing all of the information on how to use the machine in the Operator's Manual
- Taking all warnings into account
- Carrying out all inspections and maintenance work as instructed when they are due

2.2 Reasonably foreseeable misuse

Examples of reasonably foreseeable misuse that may consequently pose a hazard for the user, third parties or for the machine during all modes of operation are:

- Not using the machine in accordance with the proper use
- Operating the machine without observing the operational parameters described in the machine data table
- Changing the machine, along with attachments and modifications, without previously consulting the manufacturer
- Not using the machine as instructed in the Operator's Manual, with regard to safety instructions, installation, operation and maintenance and repair
- Bypassing or decommissioning the machine's protective and safety equipment
- Using an obviously damaged or faulty machine

- Repairing, cleaning or servicing the machine without switching it off

2.3 User qualifications

This Operator's Manual is intended for farmers who operate, service and hitch the machine to the tractor themselves, and for other trained persons who use the machine. According to health and safety law, it is the responsibility of the owner to provide any other users with the necessary information.

Necessary information is obtained from:

- Instruction and training in assigned tasks
- Providing information about potential risks associated with improper handling
- Instructions about:
 - Necessary protective equipment
 - Protective measures
 - Relevant regulations
 - Accident prevention regulations
 - Operating conditions

It is assumed that the user is familiar with basic mechanics and hydraulics.

Any person using the machine (the user) must follow the Operator's Manual and observe the respective safety instructions for every task/activity.

As a basic prerequisite, the user must have valid authorization for transporting the machine on the road using a tractor or appropriate towing vehicle in order to be allowed to transport such equipment on the roads.

2.4 Warning notices




2.4.1 Warning notices in the Operator's Manual

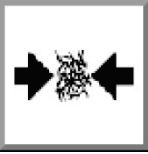


In these documents, each warning has a key word that indicates the extent of the risk involved.

The first few lines below the key word describe the **nature and source of the potential risks**.

4.2 General buttons

There are three buttons with general functions.

Button	Function
 <p>Stop</p>	<ul style="list-style-type: none"> - The action being implemented is interrupted and the "Manual Operation" menu opens
 <p>Back</p>	<ul style="list-style-type: none"> - Goes back to the previous menu - Stops an action being implemented
 <p>Next</p>	<ul style="list-style-type: none"> - Changes the buttons that are visible in the panel - Only available when there are more buttons in the menu than can be displayed at one time

Button	Function
	Decrease swath width - Press and hold this button to decrease the swath width
	Working Height menu - The "Working Height" menu opens
	Lifting/Lowering menu - The "Lifting/Lowering" menu opens

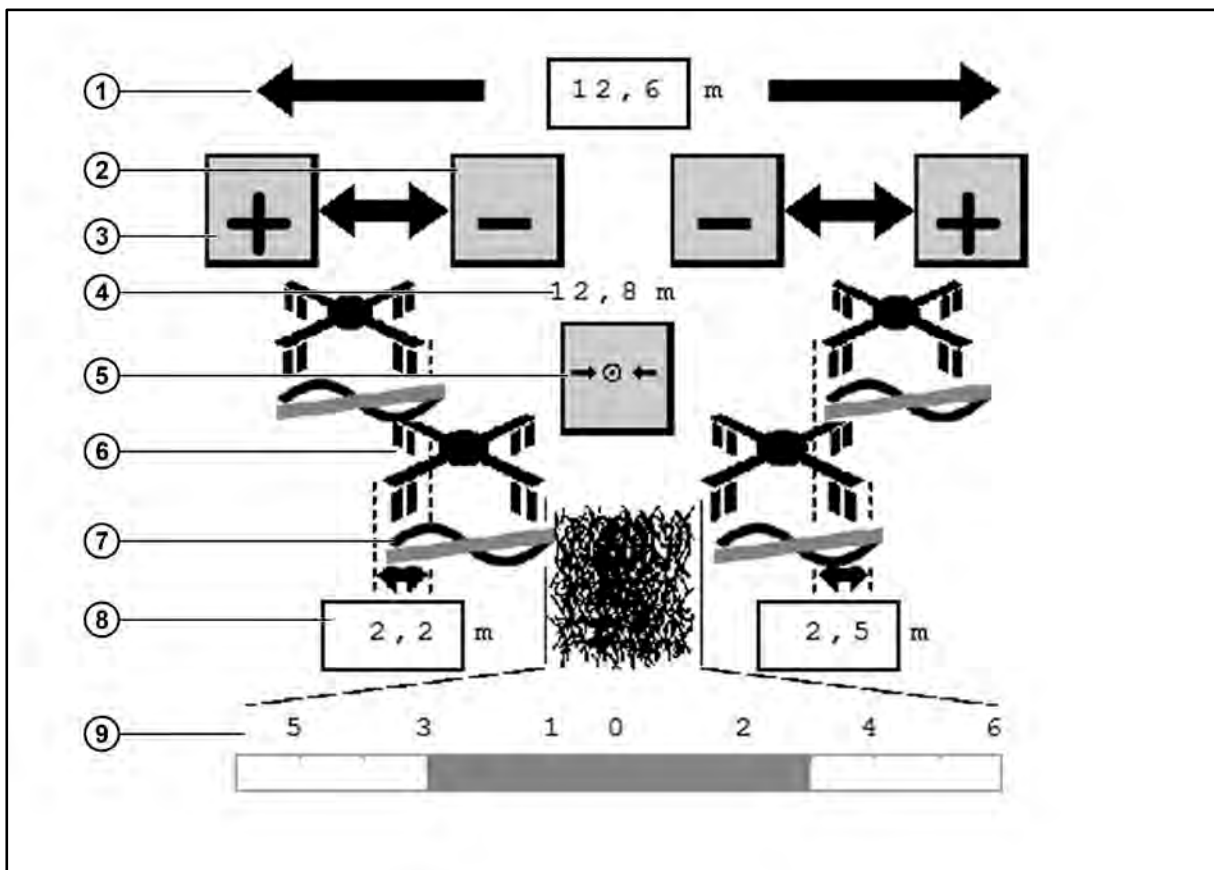


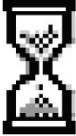



Abb. 16 "Working Width" menu function section

Position	Designation	Description
1	Working width	- Displays the set working width in metres
2	 Decrease	- Press and hold this button to decrease the working width of the corresponding rotor

Position	Designation	Description
3	 Decrease	- Press and hold this button to decrease the working height of the corresponding rotor
4	Working height	- Displays the value of the working height as a percentage after calibration
	System status	 <ul style="list-style-type: none"> - Action is being carried out - After the action is completed, this symbol is hidden

View of the auto-calibration

Button	Function
 Start	<ul style="list-style-type: none"> - Starts the calibration process - The height adjustment view opens once calibration is completed

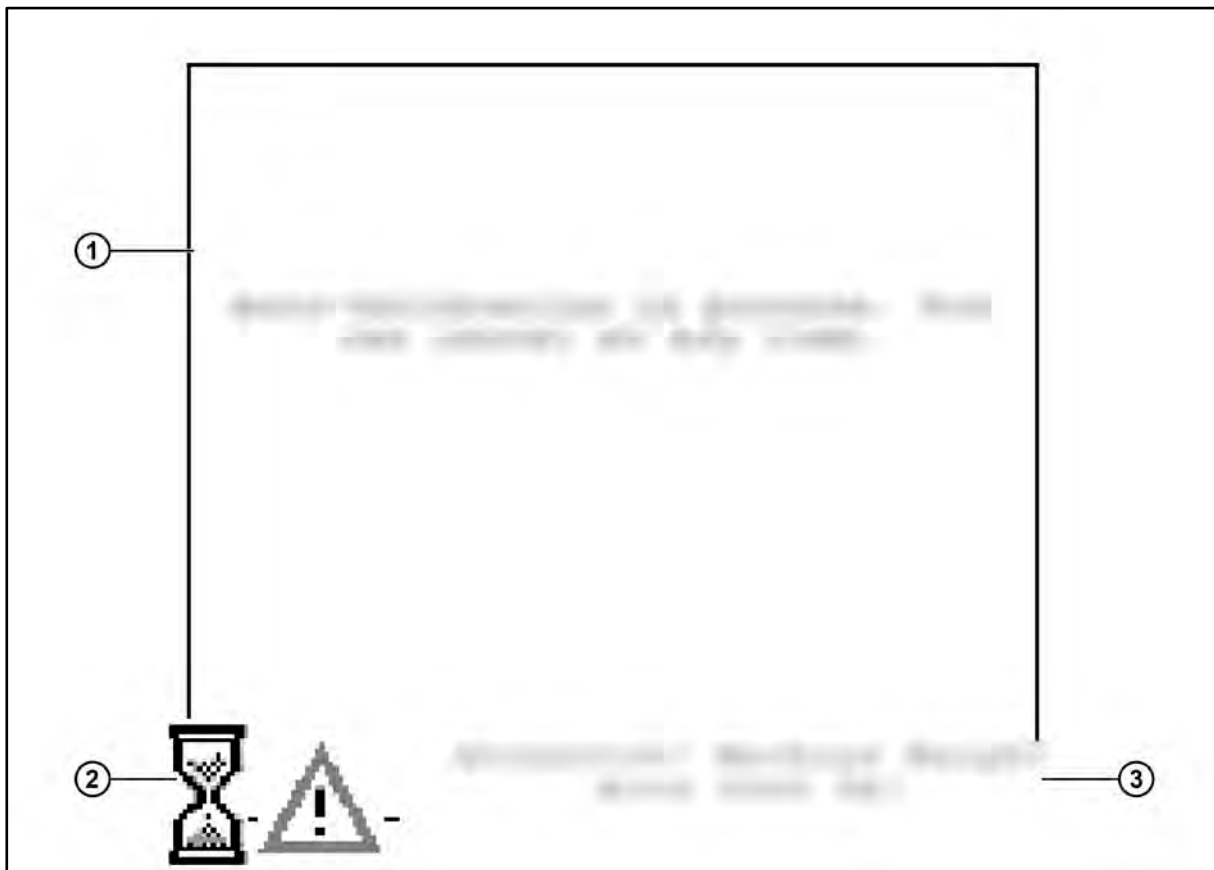








Abb. 23 "Calibrations" menu function section

Position	Designation	Description
1	Text field	- Displays text before and during calibration

Symbol	Function
 <p>Increase the working width on the left</p>	<ul style="list-style-type: none"> - Press and hold this button to increase the working width of the front left rotor
 <p>Decrease the working width on the left</p>	<ul style="list-style-type: none"> - Press and hold this button to decrease the working width of the front left rotor
 <p>Adjust the working width</p>	<ul style="list-style-type: none"> - If the value "Last parallel working width set" is displayed, then the working width is adjusted to the value "Last parallel working width set" - If no value with "Last parallel working width set" is displayed, then the two front rotors are centred to the value shown under "Working Width"
 <p>Memory 1</p>	<ul style="list-style-type: none"> - Used to store a set working height for all rotors and to set the a stored working height - Stores the current working height when pressed for at least 3 seconds - After savings, displays the message "Height setting stored" - Sets the stored working height when pressed - Interrupts the current action
 <p>Memory 2</p>	
 <p>Memory 3</p>	

4.5 Error messages

If an error occurs, the function section is highlighted red, the error code is displayed and a warning sounds.

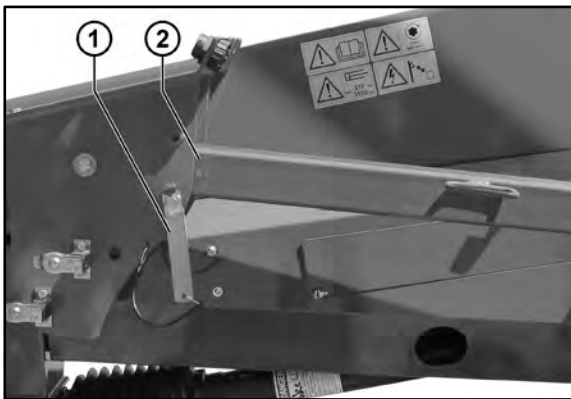


Abb. 33 Support leg

- Pull out the pin (1).
- Swivel the support leg (2) upwards.
- Secure the support leg with the bolts.
- Lower the lower links to 300 mm.

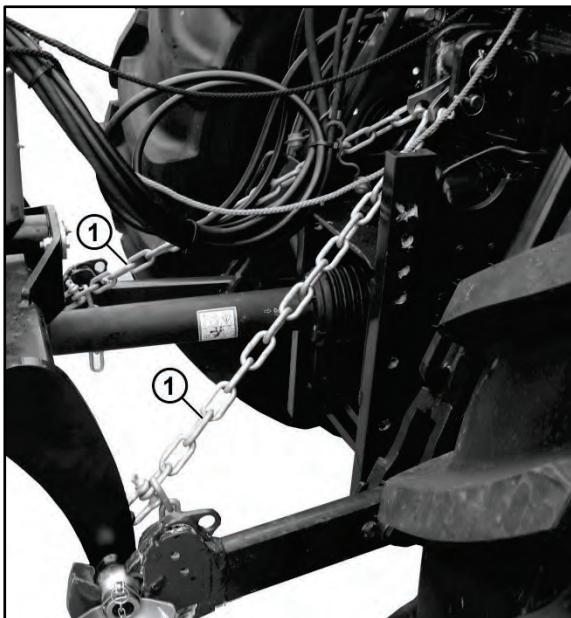


Abb. 34 Tractor linkage

- Hook the carrier chains (1) to the tractor.
- Adjust the length of the chains so that the main frame is positioned horizontally.

7.1.3 Fitting the transmission shaft

⚠ DANGER

Risk of injury when fitting/removing the transmission shaft



Rotating machine parts can cause bodily injury.

Before you attach/detach the transmission shaft:

- Switch off the PTO on the tractor.
- Switch off the tractor engine.
- Remove the ignition key.

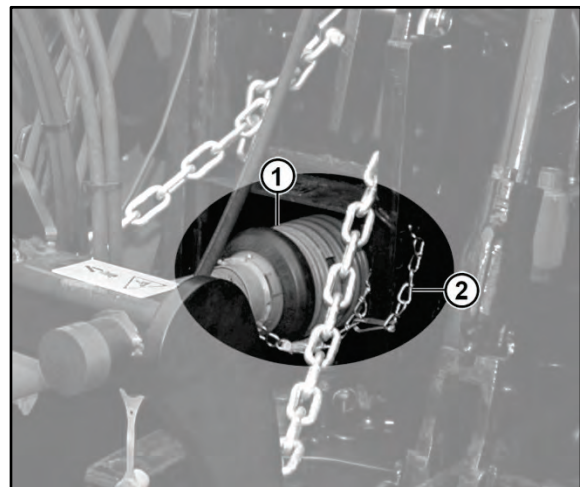


Abb. 35 Transmission shaft safety guard on the tractor

- Check that the transmission shaft guard (1) and safety chain (2) are in place and undamaged.
- Detach the transmission shaft from the chain attached to the towing bracket and place the transmission shaft onto the drive stub of the tractor.

You must hear the transmission shaft click into place.

- Check that the transmission shaft is seated securely.
- Attach the safety chain to the tractor to prevent the shield pipe from rotating with the transmission shaft.

7.1.4 Connect the hydraulics

Tractors with Power Beyond

- Connect the hydraulic hoses to the Power Beyond connections.

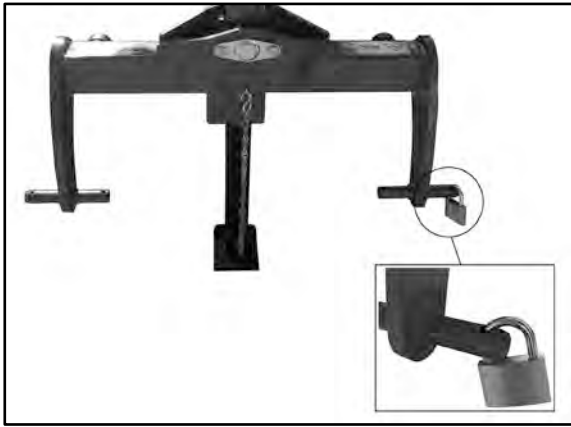


Abb. 59 Lock to prevent unauthorized use

- ➔ Secure the machine against unauthorized use by attaching a lock to the lower link pin.

7.8 Settings

7.8.1 Adjusting the swath width

The swath width is set in the "Working Width" menu.

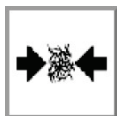
The swath width can be set from 1.30 m to 2.30 m.

- ➔ Select the "Working Width" menu.

- ➔ Press the "Increase swath width" button until the desired swath width is set.



- ➔ Press the "Decrease swath width" button until the desired swath width is set.







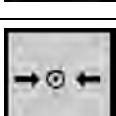
7.8.2 Set working width

The working width is set in the "Working Width" menu.

The working width is changed by retracting or extending the hydraulic cylinders on the two front swivel arms.

The working width is infinitely adjustable between 11 m and 14 m.

- ➔ Select the "Working Width" menu.
- ➔ Press the following buttons until the desired working width is set.

Button		Working width
	Increase working width	Increase working width simultaneously
	Decrease working width	Reduce working width simultaneously
	Increase	Increase the working width of the corresponding rotor
	Decrease	Decrease the working width of the corresponding rotor
	Synchronise	Synchronise the working width of both rotors

- ➔ Press the "Increase working width" button until the desired working width is set.



- ➔ Press the "Decrease working width" button until the desired working width is set.


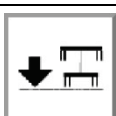


7.8.3 Adjusting working height

The working height is set using the "Working Height" menu.

Adjust the working height only as low as is required for tidy raking.

- ➔ Select the "Working Setup" menu
- ➔ Press the following buttons until the desired working height is set.

Button		Working height
	Increase working height	Increase the working height of all rotors simultaneously
	Decrease working height	Decrease the working height of all rotors simultaneously

Rectifying faults

Fault	Possible causes	Remedy
Loss of the machine menu display while working	ISOBUS cable broken	Have the machine repaired by a specialist workshop. To drive the machine from the field, switch the machine into the transport position. (see Section 9.6 Emergency operation)
The rotors are at different heights in the headland position	Sensor out of position	Check the position of the rotors to see which rotor is misaligned. Check that the sensor is correctly positioned. Retighten the sensor screws if required. Select the "Calibrations" menu. Press the "Calibration" button. Press the "Start" button. Wait until the calibration is complete. Lift the rotors again. Check the position of the rotor. If the misalignment persists: Have the sensor repaired by a specialist workshop. Use the "Manual Operation" menu to operate the machine. (see Section 9.5 Manual operation in the event of sensor failure)
The rotors do not lift fully into the transport position	Sensor out of position	Check the position of the rotors to see which rotor is misaligned. Check that the sensor is correctly positioned. Retighten the sensor screws if required. Select the "Calibrations" menu. Press the "Calibration" button. Press the "Start" button. Wait until the calibration is complete. Lift the rotors again. Check the position of the rotor. If the misalignment persists: Have the sensor repaired by a specialist workshop. Use the "Manual Operation" menu to operate the machine. (see Section 9.5 Manual operation in the event of sensor failure)
	System settings incorrect	Contact the Service department.
The rear rotors lift into the headland position too early/late	Value for "Lifting offset" or "Sequential control time" set incorrectly	Correct the value in the "User Setup" menu.
The rear rotors lower into the working position too early/late	Value for "Lowering offset" or "Sequential control time" set incorrectly	Correct the value in the "User Setup" menu.
No raised frame	Tractor or machine braked	Check that the machine parking brake has been released. Check that the tractor parking brake has been released. Do not actuate the tractor's brake pedal.

➔ For any other faults, contact a specialist workshop immediately.

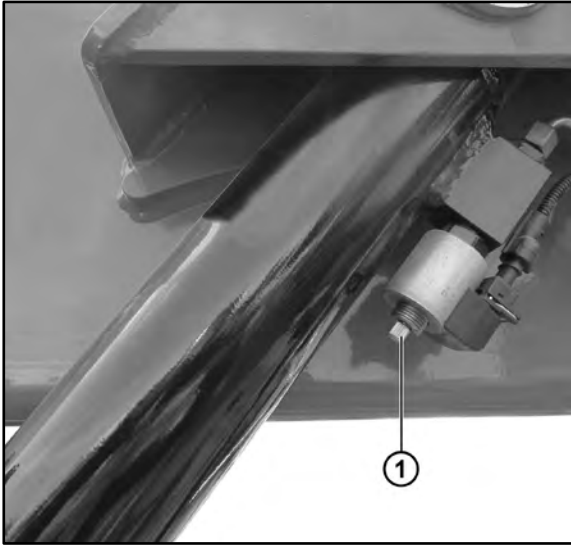


Abb. 75 Valve on the hydraulic cylinder of the axle lift

- ➔ Turn the screw (1) anti-clockwise until the hydraulic cylinder of the lift is fully retracted.
- ➔ Tighten the fastener.
- ➔ Lower the lower links to 300 mm.

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