

# Fixed Chamber Baler

1125 F

2125 F

2125 F Profi



Wolfenbüttel

AGCO Wolfenbüttel GmbH - Gebrüder-Welger-Straße  
3 - D-38304 Wolfenbüttel

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EME

English

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### **1.2.2 Safe Maintenance**

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Read and understand the general safety instructions then:

- Before you do maintenance or do work on the machine:
    - Stop the tractor engine and remove the key
    - Disengage the Power Take Off (PTO)
    - Stop all the parts that can move
    - Put the wheel chocks against one of the wheels
  - Do not touch parts that can move
  - Obey the maintenance schedule in the manual to prevent problems
  - Do not change the machine
  - If it is necessary to replace parts, only use parts with manufacturer approval
  - Make sure that all covers and guards are in position and locked when you complete maintenance work.
- 

### **1.2.3 Safe Driving**

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Read and understand the general safety instructions. Make sure that:

- You always obey your local road traffic regulations and the speed limits
  - The drawbar and the parking jack are in the drive position
  - The machine is in the transport position
  - The tailgate is not open and locked
  - The trailed steering axle (if present) is locked
  - All parts that move (for example the folding components and covers) are locked
  - The control panel and the hydraulic system of the tractor are off
  - All the lamps on the machine operate correctly and are clean from dirt
  - Examine the operation of the brakes before you start to drive. Do not drive with the machine if there is a problem with the brakes
  - Do not make sudden turns when on a slope
  - Drive slower when on a down slope
  - Do not disengage the clutch of the tractor or change gears on a slope.
- 

### **1.2.4 Public Road Transport Safety**

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Read and understand the general safety instructions before you drive on the road. When you drive on the road:

- Obey the local road traffic laws
  - Keep a safe distance from other traffic
  - Make sure that the plug for the lighting cable fully connects to the tractor socket and the lamps operate correctly
  - Use warning lamps or other safety signs, if necessary
  - If necessary by local law install the rear marking plate for Slow Moving Vehicles (SMV) on to the machine
  - If necessary by local law install the licence plate on the machine
  - If necessary by local law, install the safety chains. Connect them to a rigid part of the tractor
  - If there is a hydraulic brake system, always connect the safety brake cord (optional)
  - Remove loose objects that can fall off the machine, for example, loose crops, mud or soil
  - Make sure that only approved tyre types are in use on the machine. Tyres not approved by the manufacturer can be dangerous. Examine the transport wheels nuts and tighten them if necessary after the set working hours or driven distance. Make sure that the tyres have the correct pressure. Do not inflate the tyres with more than the recommended quantity of air
  - Do not operate hydraulic components
-

### 1.4.4 Hydraulic Shut-off Valve

The hydraulic hose of the pick-up has a shut-off valve. In the closed position the pick-up will not lower.

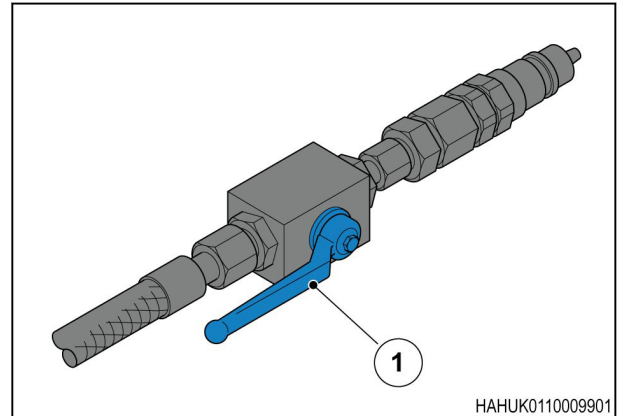


Fig. 3

### 1.4.5 Net Knife Safeguard

The net knife safeguard is a safety chain with a spring clip that attaches to the net knife. It stops unwanted movement of the net knife during maintenance and when you do work near the net knife.

The net knife safeguard is installed at the rear of the net unit. Always make sure that you attach the net knife safeguard before you do maintenance or work near the net knife.

### 1.4.6 Install the Net Knife Safeguard

#### Procedure

1. Connect the safety chain to the handle.
2. Attach the safety chain with the spring clip.

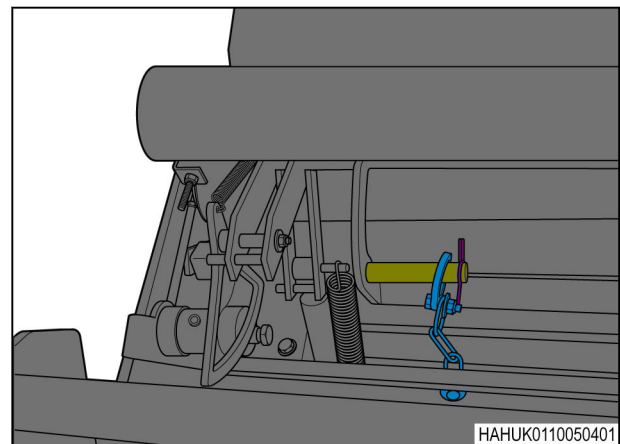


Fig. 4

### 1.4.7 Remove the Net Knife Safeguard

#### Procedure

1. Remove the spring clip from the safety chain.
2. Disconnect the safety chain.

## 2.3 Description

### 2.3.1 General Overview

The machine will make a circular bale in 5 steps:

1. Pick up the loose crop material with the pick-up unit.
2. Cut (if necessary) and transport the material into the compressing chamber.
3. Compress the material and shape the bale.
4. Tie the bale.
5. Open the tailgate and eject the bale.

Steps 1- 3 are continuous when the tractor drives. The tractor must stop when the tying starts in step 4. The tractor and machine must not move to eject the bale in step 5.

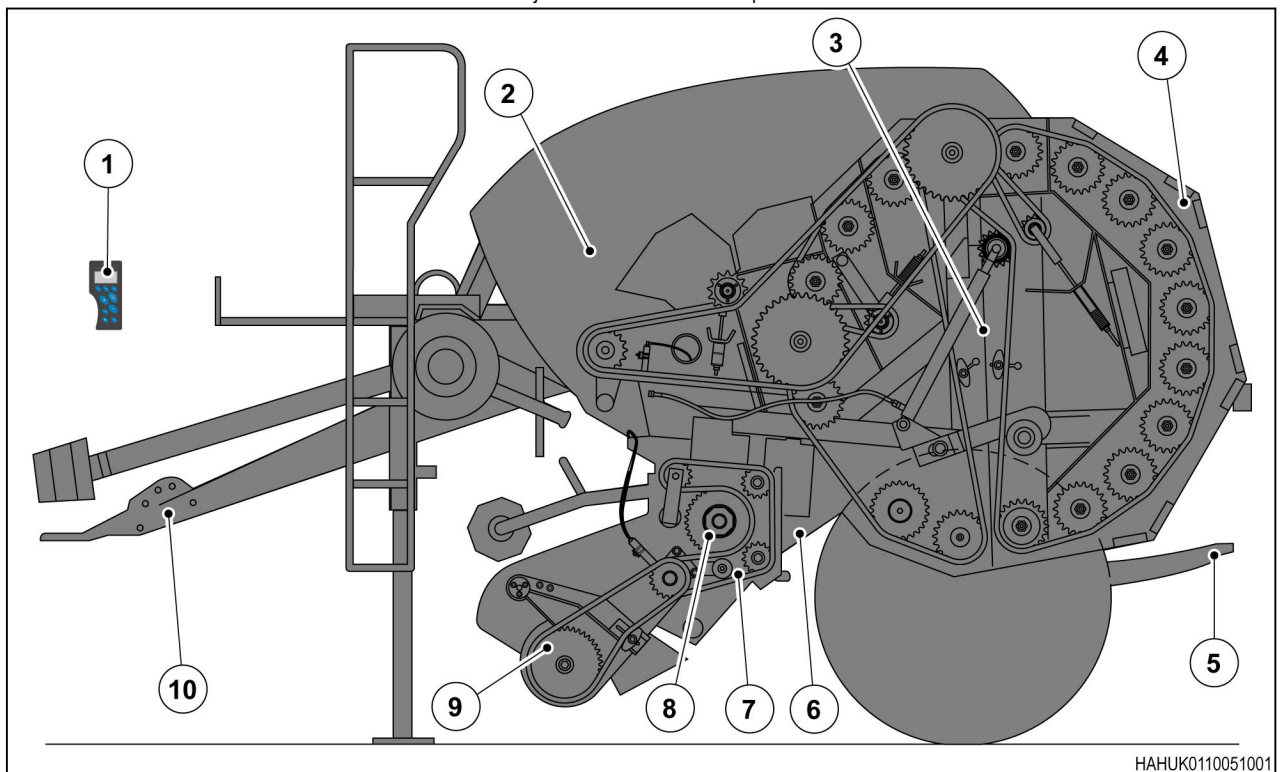


Fig. 2

- |                  |                        |
|------------------|------------------------|
| (1) Controller   | (6) Feed channel floor |
| (2) Tying unit   | (7) Cutting unit       |
| (3) Bale chamber | (8) Feed rotor         |
| (4) Tailgate     | (9) Pick-up unit       |
| (5) Bale ejector | (10) Drawbar           |

### 2.3.2 Drawbar

The machine has a selection of drawbar heads:

- Ball head 80 mm (3.2 in) (ISO 24347)
- Fixed towing eye 40 mm (1.6 in) (ISO 8755)
- Turnable towing eye 35 mm (1.4 in) (ISO 5962-3).

Make sure that you can use one of these drawbar heads with your tractor. Read the tractor manual.

You must adjust the drawbar height to the tractor before use.

The MONITOR menu shows automatically when the control is supplied with power.

The following information is displayed in the MONITOR menu.

### Centre display

- Machine status ( baling, tying, ...)
- Bale diameter and set diameter
- Cutting device status.

### Adjacent to the centre display

- Daily counter
- Machine working time
- Battery voltage
- Power take-off (PTO) speed.

### Below the centre display

- Tying mode
- Hydraulic switch (cutting device, bottom door, pick-up)
- Operating parameter (bale diameter, net layers).

#### 2.6.1.1 The Display

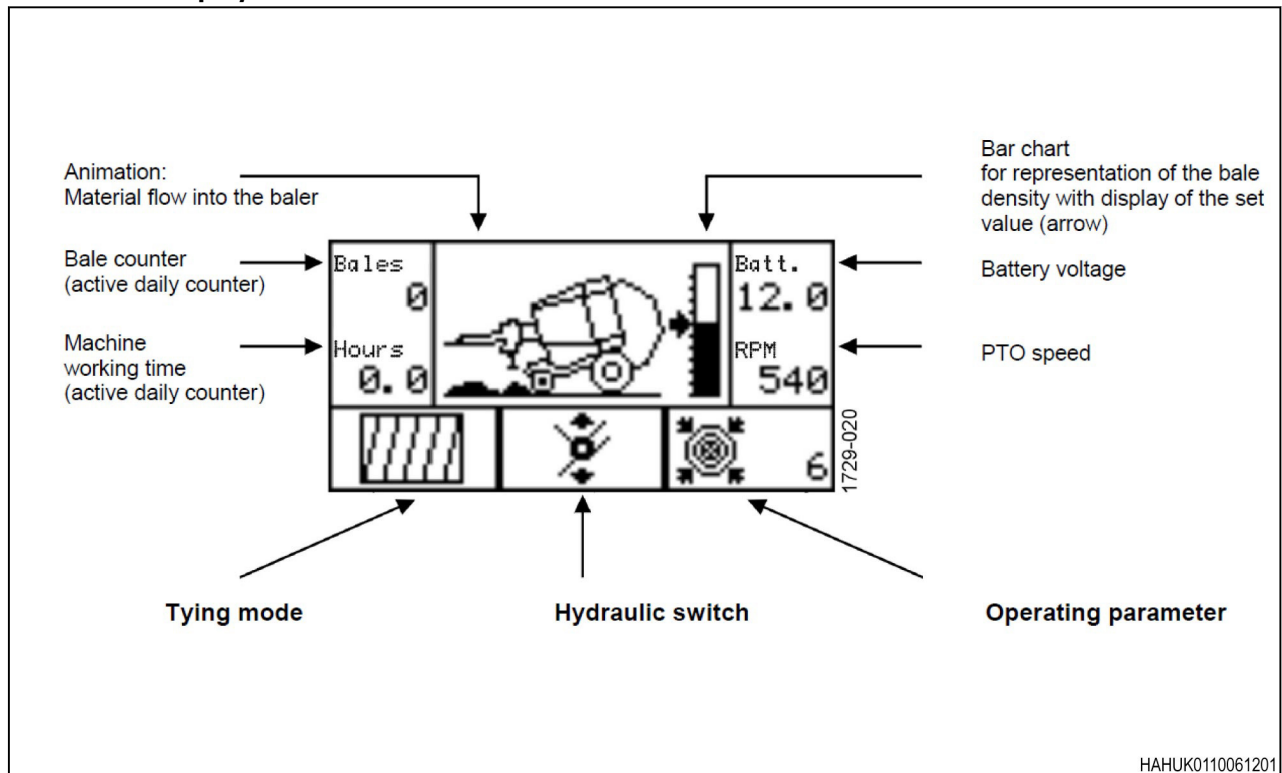


Fig. 9



**CAUTION: Moving parts**

**Personal injury**

**Extended diagnosis is used when the machine is operating. Extended diagnosis must only be done by approved personnel.**

### 2.6.4.1 Standard Diagnosis











**CAUTION: Personal injury**

**Moving parts**

**Switch off the tractor engine and wait until the machine has stopped. Disconnect the hydraulic supply from the machine.**

Standard diagnosis can only be done when the machine stops. If you start the machine when standard diagnosis is running no more diagnosis can be selected. The display will change to the 'Monitor' menu when you push a button.

1. Push  to open the menu overview.
2. Push  or  to scroll to 'Diagnosis'.
3. Push  to select 'Diagnosis'.
4. Push the left  button to scroll the menu.
5. Push the right  button to scroll the menu in the opposite direction.
6. Push  to go to the menu overview.
7. Or Push and hold  for three seconds to go to the 'Monitor' menu.

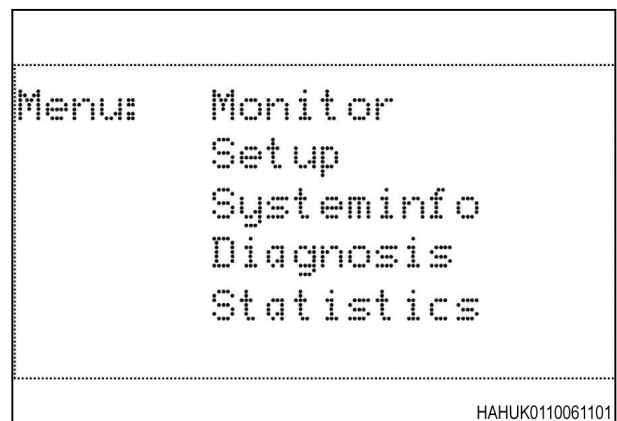


Fig. 23

### 2.6.4.2 Extended Diagnosis




**WARNING: Personal injury**

**Extended diagnosis is done when the machine is operating. Only approved persons can do extended diagnosis.**

Use extended diagnosis to see the sensor and actor screens when the machine is operating.

Extended diagnosis operates in the same procedure to standard diagnosis. But you can also see the sensor and actor screens when the machine is operating. You can change the actor channel and the machine will continue to operate.

The  symbol on the screen flashes. This shows extended diagnostic mode is on.

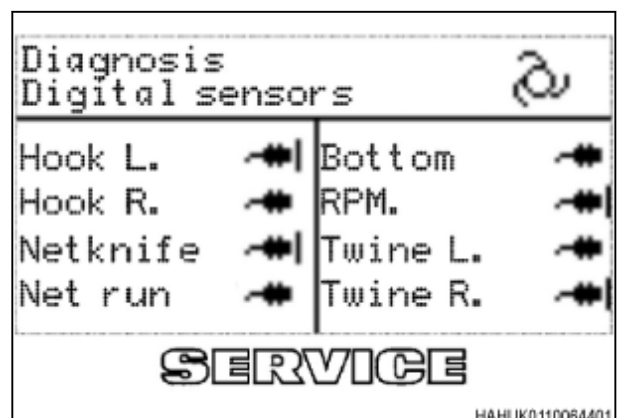


Fig. 24

Submenu	Task	see chapter
MONITOR	Stops SYSTEM SERVICING menu and starts MONITOR menu.	see chapter <a href="#">Monitor submenu</a> , page 61
SYSTEM SETUP	Machine model selection, if more than one machine interface is available.	see chapter <a href="#">System Setup submenu</a> , page 62
EEPROM CONTENT	Display of the EEPROM contents.	see chapter <a href="#">EEPROM Contents submenu</a> , page 63
SELF-TEST	Diagnostic test of the control system (use a special test device).	see chapter <a href="#">Self Test submenu</a> , page 63

### 2.6.7.1 Call-up System Service menu





- Select SYSTEM SERVICING: press and hold the centre button  (for 10 seconds) when switching on the control voltage
- Select submenu: keys  or 
- Call-up selected submenu: Button .



Fig. 45

### Monitor submenu

This menu entry stops SYSTEM SERVICING and the MONITOR menu, displays. see chapter 2.6.1 [Monitor Menu](#), page 40




- Select MONITOR menu: keys  or 
- Agree selection with button .



Fig. 46




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Key	Operation
	Select actor scroll up
	Select actor scroll down
	Open menu overview, or push and hold to go to the monitor menu.


## 2.6.9 Operating the Oscilloscope

### 2.6.9.1 Paging through the Oscilloscope Screens

You can scroll through the oscilloscope screens:

- Right button  page up
- Left button  page down.



### 2.6.9.2 Start or stop recording (RUN mode / Hold mode)

You can stop the data recording (HOLD mode) and start (RUN mode) push .

### 2.6.9.3 Time Window function

The Time window" function sets the period of time to a window size, e.g.:

- window size T = 10 seconds
- window size T = 20 seconds
- window size T = 50 seconds
- window size T = 100 seconds
- window size T = 200 seconds
- window size T = 500 seconds.

Position the selection bar (black) on the "Time Window" function use the buttons  and .

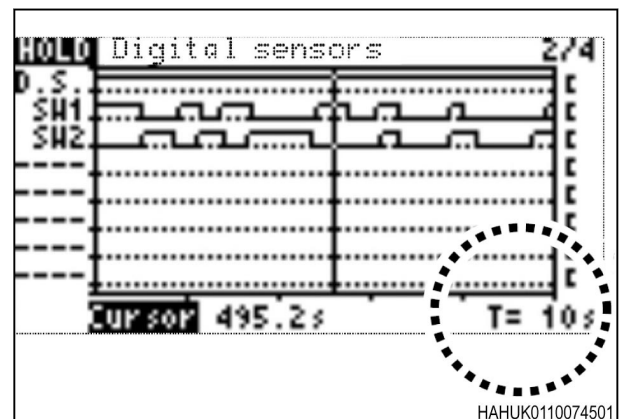






Fig. 63

### 2.6.9.4 "Cursor" function

When the recording has been stopped (HOLD), use the "Cursor" function to see all times of the data recorded before:

1. Push  and  to move the selection bar (black) to the "Cursor" function.
2. Push  and  to move the cursor to the necessary position.

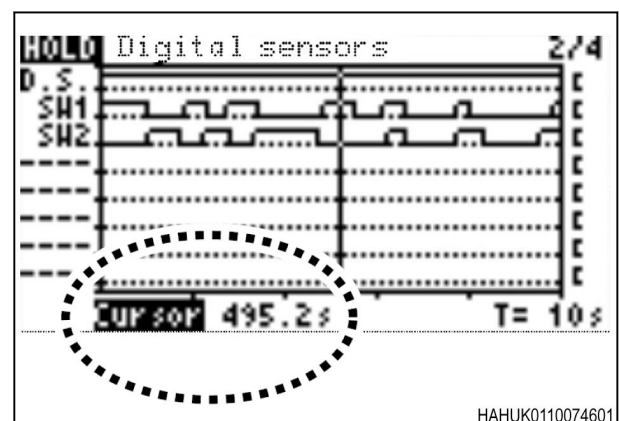


Fig. 64

**Procedure**

- NOTE:** For transportation, the manufacturer has locked the bottom door (Hydroflexcontrol) in the closed position. You must set the bottom valve on the hydraulic control block to the open position before you can do the steps which follow.

Use the applicable tool and turn the right ball valve 90° in a counterclockwise direction.

- NOTE:** Machines with E-Link.
  - o

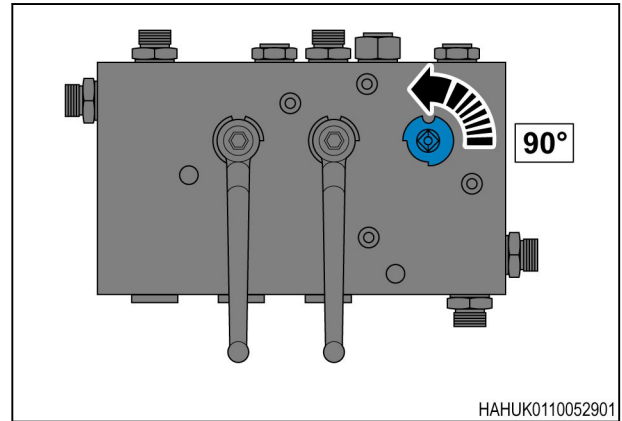


Fig. 4

Symbol on the hydraulic hose	Function	Tractor connection	Colour of the marking
	Open and close the tailgate	Single acting	Yellow
	Hydraulic switch to: <ul style="list-style-type: none"> <li>• Open and close the feed channel floor</li> <li>• Lift and lower the pickup</li> <li>• Move the cutting device in to the operation and no operation position.</li> </ul>	Double acting with floating position	Red

**NOTE:** Machines with Balercontrol E.

5. Set the guide wheels on the left and right side of the machine to the transport position:
  - a) Remove the guide wheels from the baling position and set to the transport position.
  - b) Attach the guide wheels with a split pin.

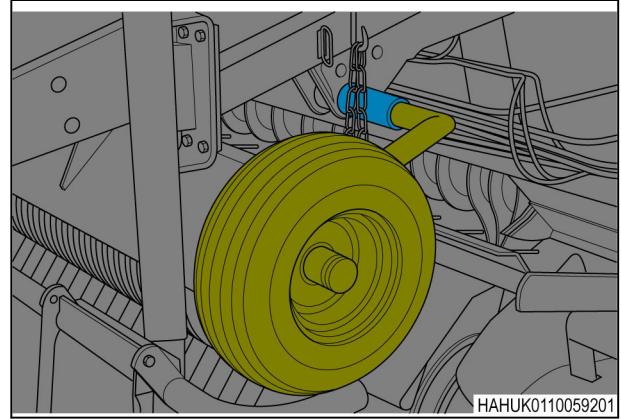


Fig. 14

6. Make sure that you push the bale ejector tubes to the transport position and attach with a cotter pin.
7. Fold up and lock the ladder of the maintenance platform.
8. Remove harvest remains and clods of dirt which are in contact with the machine. Make sure that the lighting set and reflectors are clean.
9. Clean the area near the brake system, near the wheel rims and brake drums.

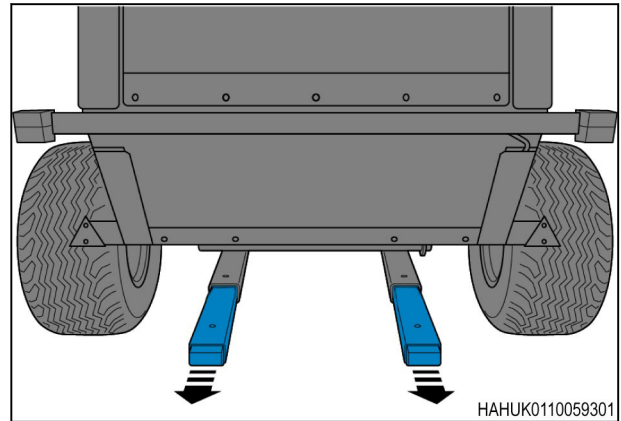


Fig. 15

10. Make sure that the brake operates during driving:
  - a) For machines with an active hydraulic brake: make sure that you connect the hydraulic brake hose.
  - b) For machines with a pneumatic brake: make sure that you set the lever on the variable load valve to the full brake effect.
  - c) Before you continue make sure that the pressure in the reservoir of the pneumatic brake is correct.
11. Remove the wheel chocks from the wheels on the machine.
12. Release the parking brake.

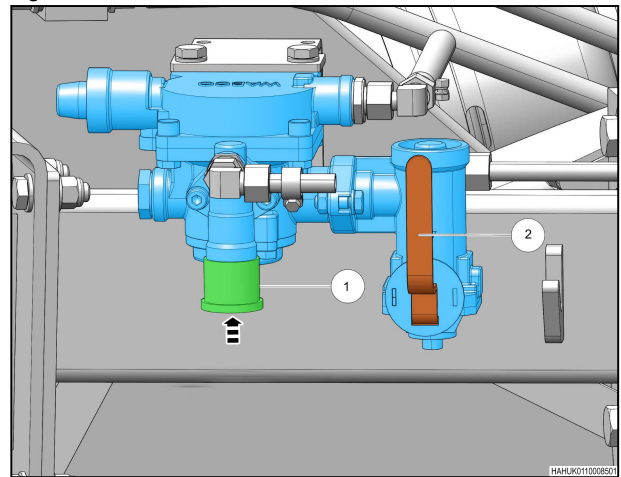


Fig. 16

6. Feed twine (B) through the guide eye.
7. Thread both twines through the pair of guide eyes.
8. Feed the twines through to the feed rollers (4), each twine in its own entry.

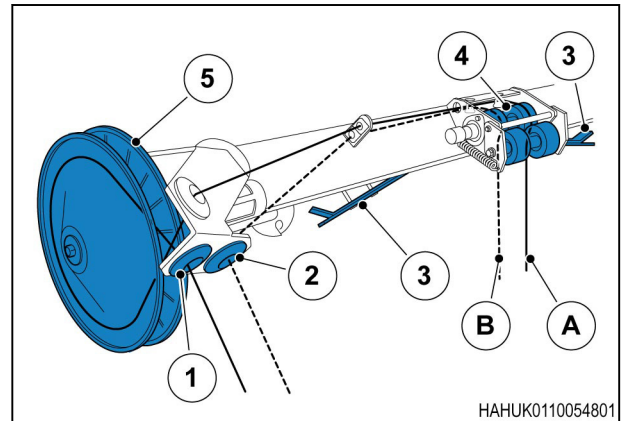


Fig. 33

- (1) Eye A on binding bar
- (2) Eye B on binding bar
- (3) Clamp and cut device
- (4) Guide roller
- (5) Variable diameter disk

### 3.4.10 Set the Twine Brake

The twine brakes must hold the twine as tightly as possible to make sure that the twines safely attach the bale.

1. Adjust the length of the spring (X) for spring (A and B) in accordance with the table below.

Measure the length (X) between the bottom of the washer on the top and the surface of the cracked plate.

	Basic setting	Length (X) of the spring
	Twine A	Balercontrol E 39 mm (1.53 in) E-Link 33 mm (1.30 in)
	Twine B	Balercontrol E 37 mm (1.46 in) E-Link 28 mm (1.1 in)

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## 3.6 Disconnect the Machine from the Tractor

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### 3.6.1 Park the Machine

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#### Procedure

1. Make sure that the ground is solid and level for the machine wheels and support foot.
2. Make sure that the baling chamber is empty and that you close the tailgate.
3. Remove the pressure from the hydraulic system, see the procedure that follows:

---

### 3.6.2 Remove the Pressure from the Hydraulic System

---

#### Procedure

1. Start the tractor engine.
2. Fully lower the pick-up with the double acting valve in the float position.
3. Use the double acting valve in the tractor to retract the knives.
4. When the knives are in the non cutting position after 5 seconds the hydraulic accumulators are empty.
5. Activate manual net tying once to make sure that the hydraulic pressure is removed from the pivoted roller.
6. While the tractor engine is in operation, set the double acting valve in the tractor to 'FLOAT' to remove pressure from all circuits.
7. Stop the tractor engine and remove the key.

---

### 3.6.3 Disconnect the Machine

---

#### Procedure

1. Make sure that you save all the adjustments by switching off the power on the controller with the on/off button.
2. Apply the manually operated brake.
3. Put the wheel chocks in position.
4. Install the support foot. see chapter 3.6.4 [Support Foot](#), page 112
5. For a hydraulic brake system:
  - a) Disconnect the hydraulic brake hose from the tractor and immediately connect it to the dummy coupling on the platform.
  - b) If the safety brake system is installed, disconnect the safety brake cord.
6. For a compressed air braking system:
  - a) Disconnect the reservoir coupling with the red top.
  - b) Disconnect the brake coupling with the yellow top.
  - c) Connect the couplings to the dummies.
7. If installed, disconnect the optional safety chain.
8. Disconnect the cables of the electrical power supply, the lighting and the control panel.
9. Disconnect the hydraulic hoses and connect them to the dummies.
10. Disconnect the PTO shaft:
  - a) For a machine with a bottom coupling: position the drive shaft on the drive shaft support.

## 4.4 Grind the Cutting Unit Knives



**WARNING: Magnetic fields**

Do not do work on the magnets of the blade holders if you have a cardiac pacemaker or other implant. Magnetic fields can have an effect on there operation.



**CAUTION: Risk of injury**

Do not hit the knives with a type of tool from the bottom. This can cause damage to the magnets and splinters can cause injury.



**CAUTION: Risk of injury**

Wear protective gloves when you do work on the cutting unit blades.

**NOTE:** Sharp blades use less driving power, give a good cut quality and maximum crop use. The frequency you must grind the knives will change, on the type of crop and the quantity of contamination.

### 4.4.1 Remove the Knives

**Procedure**

1. Put the cutting device to cutting position with the controller and the double acting valve in the tractor.
2. Move the feed channel floor halfway down with the controller and the double acting valve in the tractor.  
Do not move fully down because the knives must not be in contact with the feed channel floor.
3. Open the tailgate with the single acting valve in the tractor.
4. Make sure that you disengage the PTO shaft, stop the tractor engine and remove the key.
5. Stop the movement of the tailgate with the hydraulic shut off valve (1).

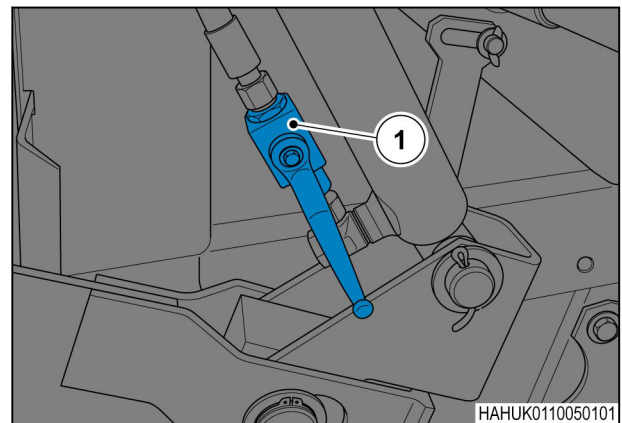


Fig. 2

## 4.10 Adjust the Disk Brake of the Net Tying Unit

### Before starting the procedure

To prevent unwanted unroll of the net roll you must adjust the disk brake. With the lever in the up position it must not be possible to turn the roll by hand.

### Procedure

1. Make sure that the machine is Off refer to the shut down procedure for maintenance. see chapter 3.6.8 *Take the Machine out of Operation*, page 113
2. Tighten the net tensioner bar (5) and lock it with an R-clip in the hole (4).
3. Loosen the bolt (1) on the lever.
4. Adjust the milled nut (8) until the brake linings (7) are in full contact with the brake disk. If there is wear to the brake linings (7) on one side:
  - a) Loosen the locknut (3).
  - b) Turn in a small distance the screw (2) until the brake linings (7) are parallel again.
  - c) Tighten the locknut (3).
5. Adjust the milled nut (8) until the brake disk stops to move freely, when you turn the brake disk by hand.
6. Tighten the bolt (1) on the lever.
7. Remove the R-clip from the hole (4) and release the net tensioner bar (5).

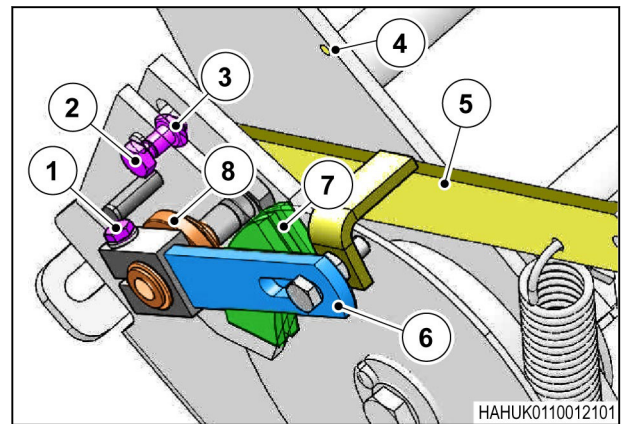


Fig. 14

- (1) Bolt
- (2) Screw
- (3) Locknut
- (4) Hole for R-clip
- (5) Tensioner
- (6) Lever
- (7) Brake linings
- (8) Milled nut

3. Move the net layer sensor up to the stop. If you do not it will be damaged in the subsequent steps.
4. Remove the sensor rotor.

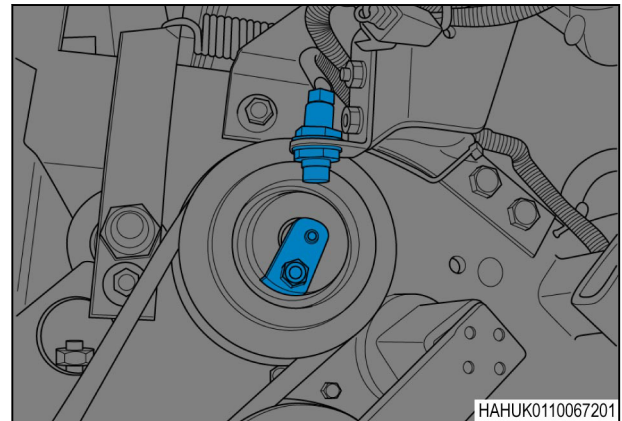


Fig. 5

5. Remove the rod (1) from the control lever (3) and the cam (2).

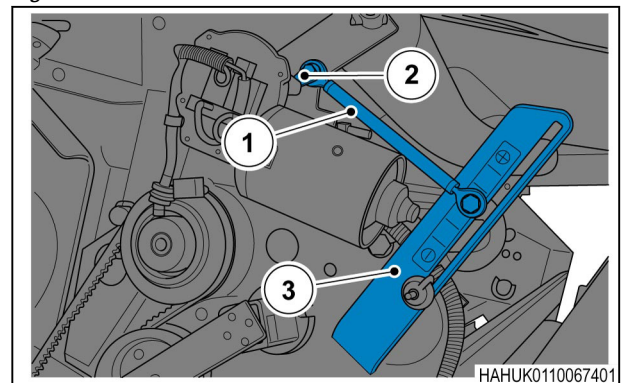


Fig. 6

6. Remove the stop plate.
7. **NOTE:** *Some machines have an emergency rod attached. For new machines you can use the standard rod for emergency operation.*  
Install the rod with a length of 185 mm to the slot of the control lever and the rubber roller.

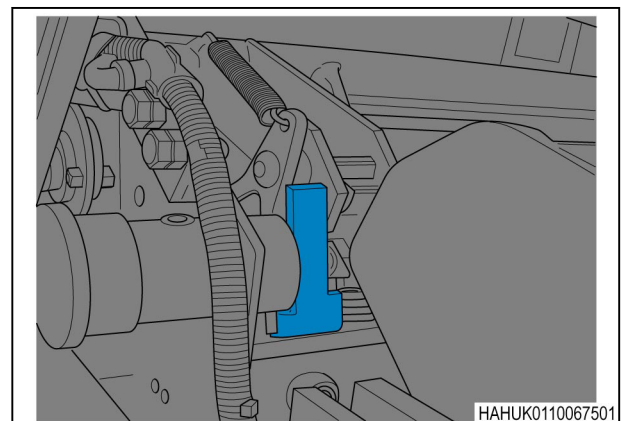


Fig. 7

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