

Operating instructions

RINK - disc spreader

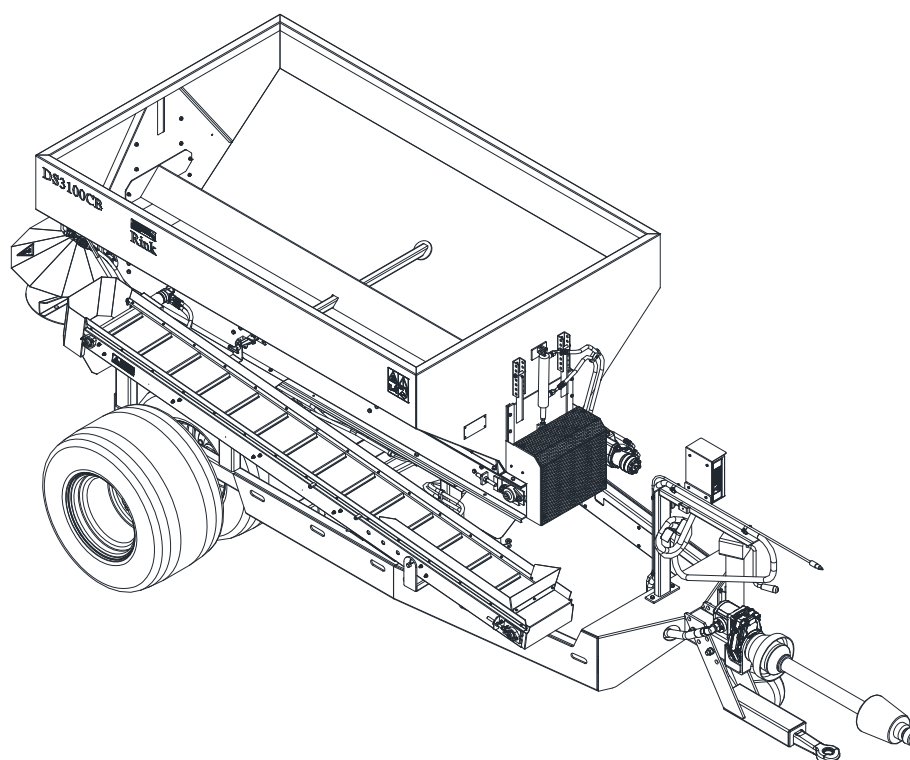
Rink DS3100CB

Seriennummer:

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NOTE:

IN ORDER TO ENSURE THE SAFE USE AND TO ACHIEVE THE BEST PERFORMANCE, IT IS ESSENTIAL THAT THIS OPERATING MANUAL IS CAREFULLY READ BEFORE THE RINK IS USED.

1813 English 933.120.426

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Subject to technical changes.

The equipment marked # is only available as special equipment.



SAFETY REGULATIONS



- The **DS3100CB RINK disc spreader** is built exclusively for spreading fine-grained, loose grit such as sand, trickle, granules or the like.
- Any other use shall be deemed improper use. The manufacturer shall not be liable for any damage resulting. The user alone bears the risk.
- Proper use also includes compliance with the operating, maintenance and service conditions prescribed by the manufacturer.
- The **DS3100CB RINK disc spreader** is state-of-the-art and reliable; however, the **RINK DS3100CB disk spreader** may **pose a risk** to life and limb of the user and strangers unless used, maintained or repaired by persons familiar with and aware of the dangers.
- Every person who is responsible for the operation, maintenance and repair of the spreader must have read and understood the operating instructions and in particular the chapter on **safety regulations**.
- For repairs only use **original spare** parts from **the manufacturer**.
- In addition to the instructions in this operating manual, the general **safety and accident prevention regulations** must be observed.
- When using public roads, the respective provisions (StVZO) apply.
- Giving other people a ride is not allowed!
- **Climbing onto the loading bridge is prohibited while the spreader is in use.** A note is attached to the wheel cover on both sides of the **DS3100CB RINK disc spreader**. This note must always be easy to read and must be replaced if damaged.
- The user **must inspect** the **DS3100CB RINK disc spreader** for **visible damage and defects** before use. Modifications to the **DS3100CB RINK disc spreader** (including operation), that may negatively affect safety, must be eliminated immediately. For safety reasons, no modifications to the **DS700CB RINK disc spreader** (with the exception of modifications/additions approved by the manufacturer) may be made to the machine. If modifications are made to the **DS700CB RINK disc spreader**, the current CE of the machine will become **invalid** and must be renewed by the person who made these modifications.



SAFETY REGULATIONS



- The permissible vertical load of the towing vehicle must be observed.
- Before starting, check that visibility in the area around you is sufficient.
- During operation, nobody should be in the danger area of the spreader, owing to the risk of injury from rotating parts and thrown foreign objects.
- Be sure to wear appropriate clothing. Wear safety shoes and long pants. Long hair must be tied up. Do not wear loose clothing. Use appropriate personal protective equipment in accordance with applicable health and safety regulations.
- On the **DS3100CB RINK disc spreader**, a noise of 74 dB (a) develops in the immediate vicinity of the machine.
- Wear certified hearing protection when working with the machine.



- Adjustment and repair work may only be carried out by authorised personnel. Before carrying out any repairs to the hydraulic system, make sure it is depressurised. Check hydraulic hose lines regularly and replace if damaged or ageing. The hydraulic hose lines must meet the technical requirements of the equipment manufacturer.



Used oil poses a risk to the environment; please dispose of used oil in an environmentally friendly manner.

BRIEF DESCRIPTION

The **DS3100CB RINK disc spreader** is meant exclusively for spreading fine-grained, loose grit such as sand, trickle, granules or the like. The electro-hydraulically controlled **DS3100CB RINK disc spreader** is powered by its own oil supply via the PTO shaft and is equipped with two different spreaders. The disc spreader ejects material wide to the rear of the machine. With the swivelling and tilting cross-conveyor belt, the spreading material can be deposited selectively or used to load other machines. The spreading material is conveyed by a conveyor belt to the spreader. Using a gate in front of each spreader, will prevent uncontrolled trickling out of the litter material. The spreader is driven by a transmission with hydraulic motor for a conveyor belt and a hydraulic motor for the spreading disc and cross conveyor belt. The speed of the hydraulic motors for the conveyor belt, the cross conveyor belt and the spreading disc, as well as the pivoting and tilting of the cross conveyor belt are infinitely adjustable via the control panel. The spreading material can therefore be precisely metered. The spread width or spread rate can be determined by driving speed, spreading plate and conveyor belt speed.

TECHNICAL DATA

Dimensions of the DS3100CB RINK disc spreader

Length	5.9 m
Width (cross conveyor swung out downwards)	2.3 m (3.9m)
Height (cross conveyor swung out upwards)	2.1 m (2.5m)
Length cross conveyor	3.0 m
Max. transfer height of cross conveyor	2.2m

Load quantity 3.1 m³

Weights

Permissible total weight	6500 kg
Permissible axle load	6000 kg
Permissible total load	800 kg
Empty weight	1700 kg

Spreading width (infinitely adjustable) up to 12 m

Spreading thickness 0.3 - 20 mm

Tires 4 x 19.0 - 45 / 17-10

Tire pressure 2.00 bar

Perm. Top speed 25 km/h

Tractor strength 40 KW (60 HP)

PTO speed max. 400 1/min

Hydraulic oil (ex-works) Plantosyn 3268 ECO

The nameplate is attached front right of the spreader.

INITIAL OPERATION

- Tighten the wheel nuts.
- Check wheel hub clearance and adjust if necessary.
- Check the tyre pressure.
- Check lighting system #. (see page 26)



Check these points again after the first drive under load!

SERVICE

Attaching and detaching

- Coupling (1) a towing vehicle. To do this, loosen the screws of the coupling (1), adjust to the correct height and tighten the screws. (See page 1)
- Fully crank up the jockey wheel (2), then loosen the jockey wheel clamp and pull the jockey wheel up as far as possible and clamp. (See page 1)
- Couple **DS3100CB RINK disc spreader** to towing vehicle.
- Check PTO shaft (3) for length, shorten if necessary and place on the tractor PTO shaft. Secure against the attached chain against twisting. (See page 1)
- Connect the power (4) to the operating power of the towing vehicle. The indicator light (green) lights up when engaging the POWER switch on the control panel. (see Fig. 1 and page 10 - Fig. 2)
- Attach bracket (5) for the control panel in a suitable position on the towing vehicle (see Fig. 1).
- When using a **hydraulic brake axle** # (see page 27 - Fig. 13), connect the brake line plug to the corresponding control unit circuit of the towing vehicle and open the ball valve. The brake is applied when operating the control unit on the towing vehicle. If the machine is shut down while the brake is applied, the ball valve of the brake line must be closed before disconnecting the plug.
- For the **lighting system** # (see page 26 - Fig. 12). Attach the seven-pin plug of the lighting system to the towing vehicle.

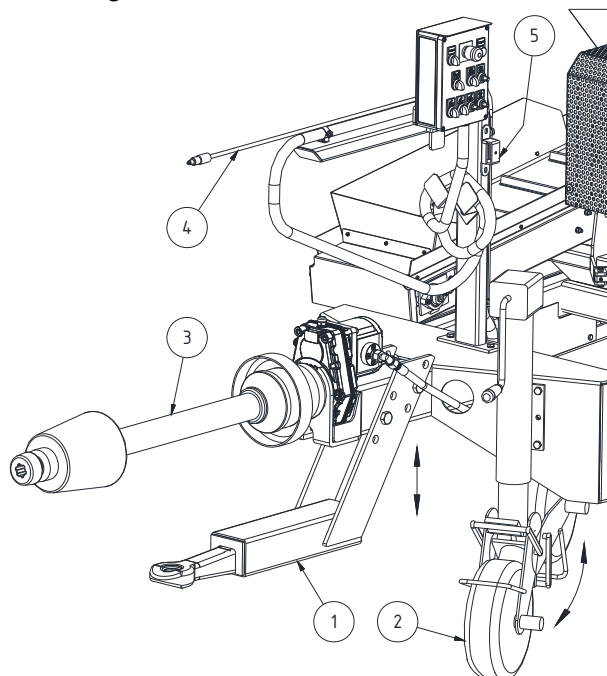


Fig.1: Coupling



All lines are assembled in such a way that they do not touch the ground or rub against the towing vehicle.

Couple in reverse!



Depressurise hydraulics to towing vehicle before coupling.

Before each use

- Check the **RINK DS700CB disc spreader** for **any** externally visible damage and repair, if applicable.
- Check the tyre pressure.
- Check the running track of the conveyor belt; readjust if necessary, as the conveyor belt must not touch the side (see pages 23 and 24).
- Check lighting system #.

Loading

- Note the desired maximum ground pressure.
- When loading observe the permissible total weight.

Starting

- The power take-off may only be engaged when the motor is not running, as switching on the PTO shaft under load can cause the gear-pump connecting pinion to break.
- To enable optimum operation, the PTO speed should be about 350 to 400 1/min.
- The oil temperature should be around 25°C when starting work; if necessary, warm up the hydraulic system.
- Before starting work, check the oil level on the hydraulic tank (middle of inspection glass). The hydraulic system is filled with **Plantosyn 3268 ECO** hydraulic oil at the factory. Too little oil can damage or destroy the hydraulic pump.



A too low PTO speed or too low oil temperature, will affect the spreading power.

Control panel

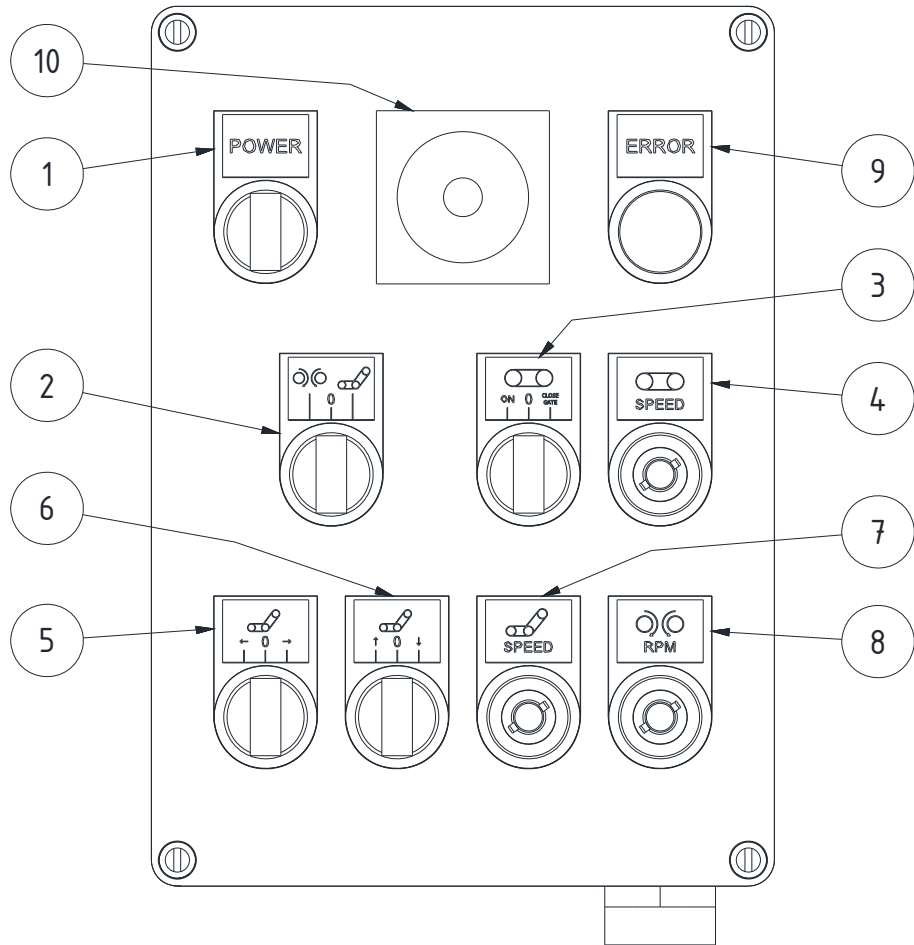
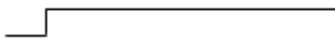

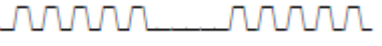


Fig.2: Control panel

- (1) POWER: ON/OFF switch of the controller
Indicator light (green) for operating voltage (continuous light)
ERROR - light (red) flashes briefly while the control starts up, as soon as the light goes out, the control is ready for operation
- (2) Selector switch for disc spreader or cross conveyor
Disc spreader mechanism: Spreading discs are activated
Position 0: Starting position (gate is or is being closed)
Cross conveyor belt: Cross conveyor is activated
- (3) Switch for conveyor belt
Position ON: Gate opens, the conveyor belt starts after a delay
Position 0: Conveyor belt switches off, slide remains open
Position CLOSE GATE: Gate is closed as long as switch button is pressed
- (4) Belt speed controller
- (5) Switch for swivelling in and out of the cross conveyor belt
- (6) Switch for raising and lowering the cross conveyor belt
- (7) Speed controller of the cross conveyor
- (8) Speed controller of the spreading discs
- (9) ERROR - lights (red)

Blinking ERROR light	Description	Troubleshooting
	continuous light: When switching on the power selector switch (2) and/or (3) is pressed	Set selector switch (2) and/or (3) to the zero position
	Oil filter warning: (to protect the system) ERROR light goes out only after the fault has been attended to	Change oil filter immediately (see page 20)
	EMERGENCY STOP is active	Unlock the EMERGENCY STOP



If several errors occur at once, the error with the highest priority is displayed:

- 1. EMERGENCY STOP; 2. Oil filter; 3. Continuous light**

- (10) EMERGENCY STOP: Button for immediately stopping the system
ERROR - light flashes (red) as long as the EMERGENCY STOP button is pressed (see (9)).

SPREADING

Spreading using the disc spreader

The cross conveyor must be turned inwards and the fixation (55) must be locked

. (See page 16, Fig. 6)

The control of the **DS3100CB RINK disc spreader** is switched on using the POWER switch (1). For spreading using the disc spreader, set the selector switch (2) on the disc spreader; this automatically activates the disc spreader. The conveyor belt and gate (66) are engaged by turning the switch for the conveyor belt (3) to the ON position, wherein first the gate (66) and then with a short delay the conveyor belt is activated. In the 0 position, the conveyor belt can be switched off and in CLOSE GATE position the gate can be closed. Before starting work, preselect gate position AG. (see page 10 Fig. 2 and page 13 Fig. 3)

Control elements

- (1) POWER: ON/OFF switch of the controller
Indicator light (green) for operating voltage (continuous light)
ERROR - light (red) flashes briefly while the control starts up,
as soon as the light goes out, the control unit is ready for operation (see page 10 Fig. 2)
- (2) Selector switch for disc spreader or cross conveyor
Disc spreader mechanism: Spreading discs are activated
Position 0: Starting position (gate is or is being closed)
Cross conveyor belt: Cross conveyor is activated (see page 10 Fig. 2)
- (3) Switch for conveyor belt
Position ON: Gate opens, the conveyor belt starts after a delay
Position 0: Conveyor belt switches off, slide remains open
Position CLOSE GATE: Gate is closed as long as switch button is pressed
(see page 10 Fig. 2)
- (4) Belt speed controller (see page 10 Fig. 2)
- (8) Spreading discs speed controller (see page 10 Fig. 2)
- (66) Gate (see page 13 Fig. 3)
- (77) Guide plate (see page 14 Fig. 4)
- (10) EMERGENCY STOP: Button for immediately stopping the system (see page 10 Fig. 2)
ERROR - light flashes (red) as long as the EMERGENCY STOP button is pressed
(see page 11 (9)).

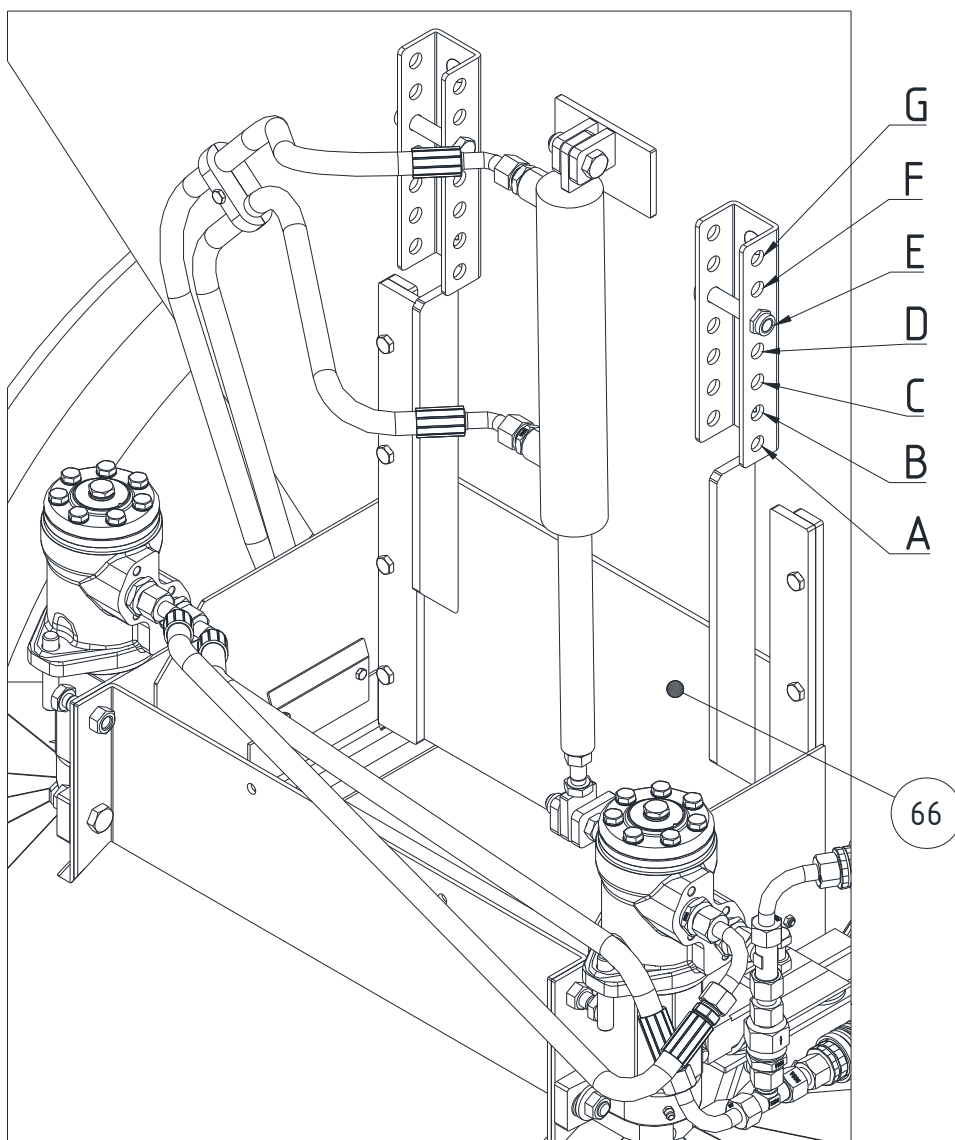


Fig.3: Control elements



Entering the danger area while the disc spreader is running is prohibited; keep a safe distance!

Spreading various scatter materials

Different scatter materials require different settings. The **DS3100CB RINK disk spreader** can be adapted to all scatter materials by choosing the following options.

- Rotating the spreading disks (Fig. 5)
- Regulating the conveyor belt speed using the controller (4) (see page 10 - Fig. 2)
- Regulating the spreading speed using the controller (8) (see page 10 - Fig. 2)
- Adjusting the opening A-G of the automatic gate (66) (see page 13 - Fig. 3)
- Increasing or decreasing the driving speed
- When using very moist material and large spreading thickness, the guide plate (77) can be removed from the spreader (using nut M8) (Fig. 4)

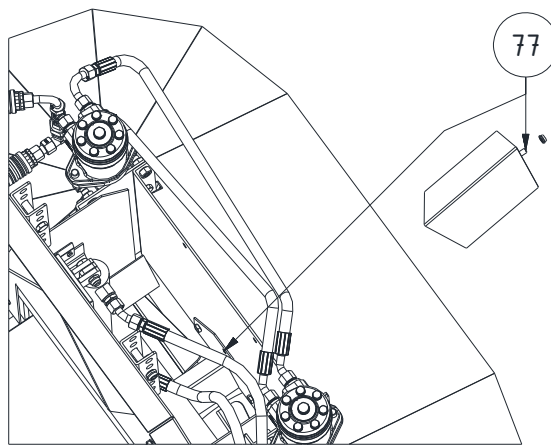


Fig.4: Spreader

Disc setting for uneven spreading pattern

Rotating the spreading disks

The spreading discs (88) can be adjusted as needed inside the slots.
(Fig. 5)

Material concentration on the outside - set every other disc (88) in direction X

Material concentration on the inside - set every other disc (88) in direction Y

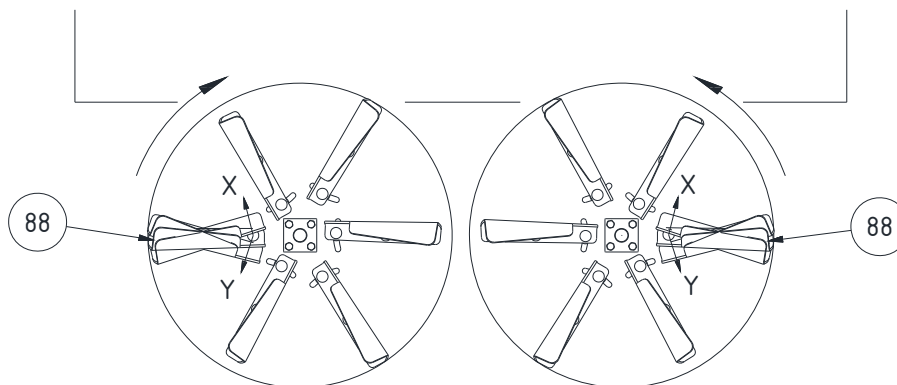


Fig.5: Spreading disc

Spreading using the cross conveyor

The fixation (55) of the cross conveyor must be released. (see page 16, – Fig. 6)

The control of the **DS3100CB RINK disc spreader** is switched on using the POWER switch (1). For spreading using the cross conveyor, set the selector switch (2) to cross conveyor; this automatically activates the cross conveyor. With the switch for pivoting the cross conveyor belt (5) in and out, the cross conveyor belt must be completely pivoted out. Only then can the conveyor belt and gate (66) be engaged by turning the switch for the conveyor belt (3) to the ON position, wherein first the gate (66) and then after a short delay the conveyor belt is activated. In the 0 position, the conveyor belt can be switched off and in CLOSE GATE position the gate can be closed. Using the switch for raising and lowering the cross conveyor belt (6), the cross conveyor belt can be adjusted to the required operating height. For swinging in, the cross conveyor must first be put in the lowest position, after which it can be swung in. Before starting work, preselect gate position AG. (see page 10 Fig. 2, and page 16 Fig. 6)

Control elements

- (1) POWER: ON/OFF switch of the controller
Indicator light (green) for operating power
ERROR - light (red) flashes briefly while the control starts up,
as soon as the light goes out, the control unit is ready for operation (see page 10 Fig.2)
- (2) Selector switch for disc spreader or cross conveyor
Disc spreader mechanism: Spreading discs are activated
Position 0: Starting position (gate is closed)
Cross conveyor belt: Cross conveyor is activated (see page 10 Fig. 2)
- (3) Switch for conveyor belt
Position ON: Gate opens, the conveyor belt starts after a delay
Position 0: Conveyor belt switches off, slide remains open
Position CLOSE GATE: Gate is closed as long as switch button is pressed
(see page 10 Fig. 2)
- (4) Belt speed controller (see page 10 Fig. 2)
- (5) Switch for swinging the cross conveyor belt in and out (see page 10, Fig. 2)
- (6) Switch for raising and lowering the cross conveyor belt (see page 10, Fig. 2)
- (7) Cross conveyor speed controller (see page 10 Fig. 2)
- (66) Gate (see page 16 Fig. 6)
- (77) Guide plate (see page 14 Fig. 4)
- (10) EMERGENCY STOP: Button for immediately stopping the system (see page 10 Fig. 2)
ERROR - light flashes (red) as long as the EMERGENCY STOP button is pressed.
(see page 11 (9))

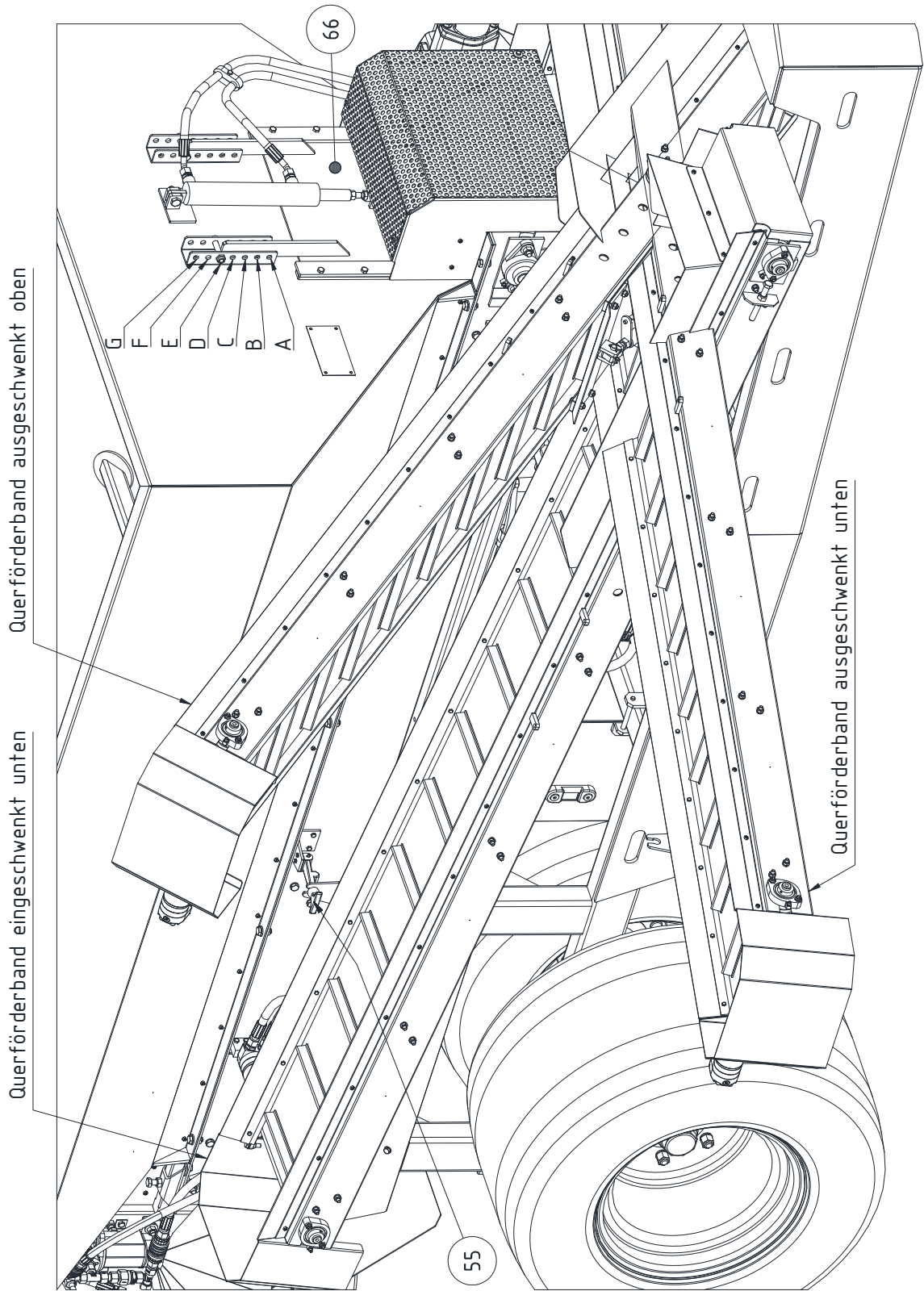


Fig.6: Cross conveyor belt



Entering the danger area while the cross conveyor belt is running is prohibited; keep a safe distance!

Set spreading thickness (spreading disc or cross conveyor belt)

The spreading thickness depends on:

- the speed of the towing vehicle
- the speed of the conveyor belt - controller (4) (see page 10 Fig. 2)
- the speed of the disc spreader - controller (8) (see page 10 Fig. 2)
- the opening (A-G) of the automatic gate (66) (see page 13 Fig. 3 and page 16 Fig. 6)

Spreading table

Spreading rate	Spreading disc or Cross conveyor belt	Conveyor belt	Slide position	Spreading width (spreading disc)
	Controller (8)	Controller (4)	Gate (66)	
Thin	8-10	8-10	A-B	10 m
Middle	6-7	8-10	C-E	8 m
Thick	4	8-10	F-G	4 m

CARE and MAINTENANCE

Lubricate bearings with multipurpose grease (after every 50 hours of operation)

(See page 19, Fig. 7)

- (1) Bearings on both sides of the spreading disc
- (2) Bearings on both sides of the front and rear shafts of the conveyor belt
- (3) Bearings on both sides of the front and rear shafts of the cross conveyor belt
- (4) Bearings on both axles
- (5) Bearing on the conveyor uptake of the cross conveyor belt
- (6) Bearings on both sides of the swivel cylinder of the cross conveyor
- (7) Bearings on both sides of the raising and lowering cylinders of the cross conveyor

Bearings without grease nipples are maintenance-free.

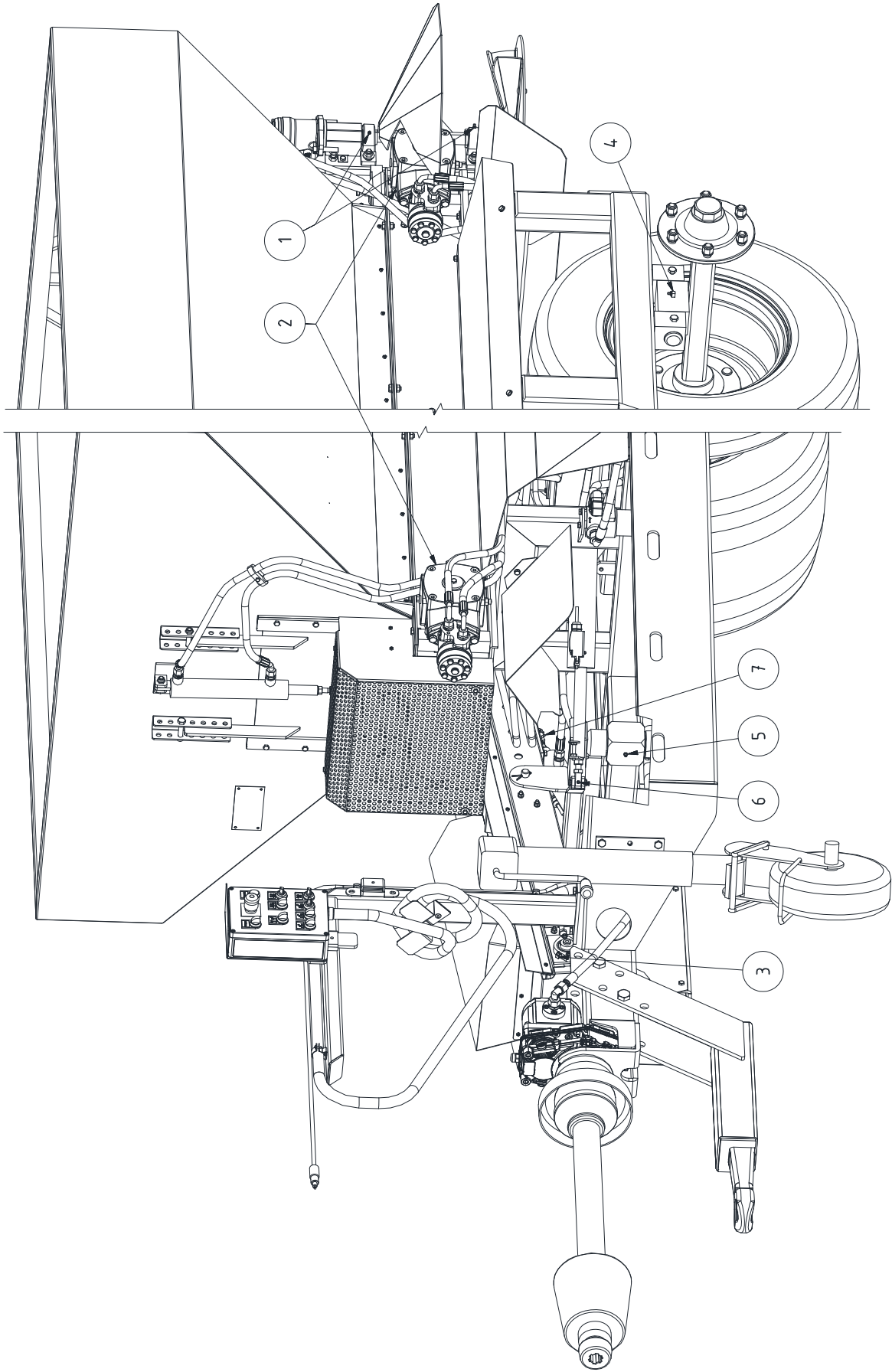


Fig.7: Lubrication points

Change oil on the pump gearbox (every 100 operating hours)

(See page 21, Fig. 8)

- Unscrew filler plug (11).
- Release the drain plug (12) on the inside at the bottom and drain the oil.
- Screw in the drain plug (12) using a new gasket.
- **Add 0.6 l of SAE85-W140 oil.**
- Screw in the drain plug using a new gasket.

Change oil of the conveyor belt transmission (every 100 operating hours)

(See page 21, Fig. 8)

- Unscrew filler plug (13).
- Release the drain plug (14) on the inside at the bottom and drain the oil.
- Screw in the drain plug (14) using a new gasket.
- Add 1.0 l of **SAE85-W140 oil.**
- Screw in the drain plug using a new gasket.

Change pressure filter (display via ERROR light)

(See page 21, Fig. 8)

- ERROR light flashes (see page 11 (9))
- **ATTENTION Oil filter must be changed immediately**
- Unscrew the filter housing (15) at the bottom.
- Replace filter element (16). **Order no.: 10922**
- Screw on the filter housing (15) at the bottom.



Used oil poses a danger to the environment; please dispose in an environmentally friendly manner.

Setting cylinder stop of position switches

(See page 21, Fig. 8)

- Adjust the position of the cylinder end stop by loosening the nut (34) so that the position switch (33) is activated when retracting the cylinder, then tighten the nut (34) again
- Adjust the height of the cylinder end stop by loosening the nut (35) so that the position switch (33) is activated when retracting the cylinder, then tighten the nut (35) again

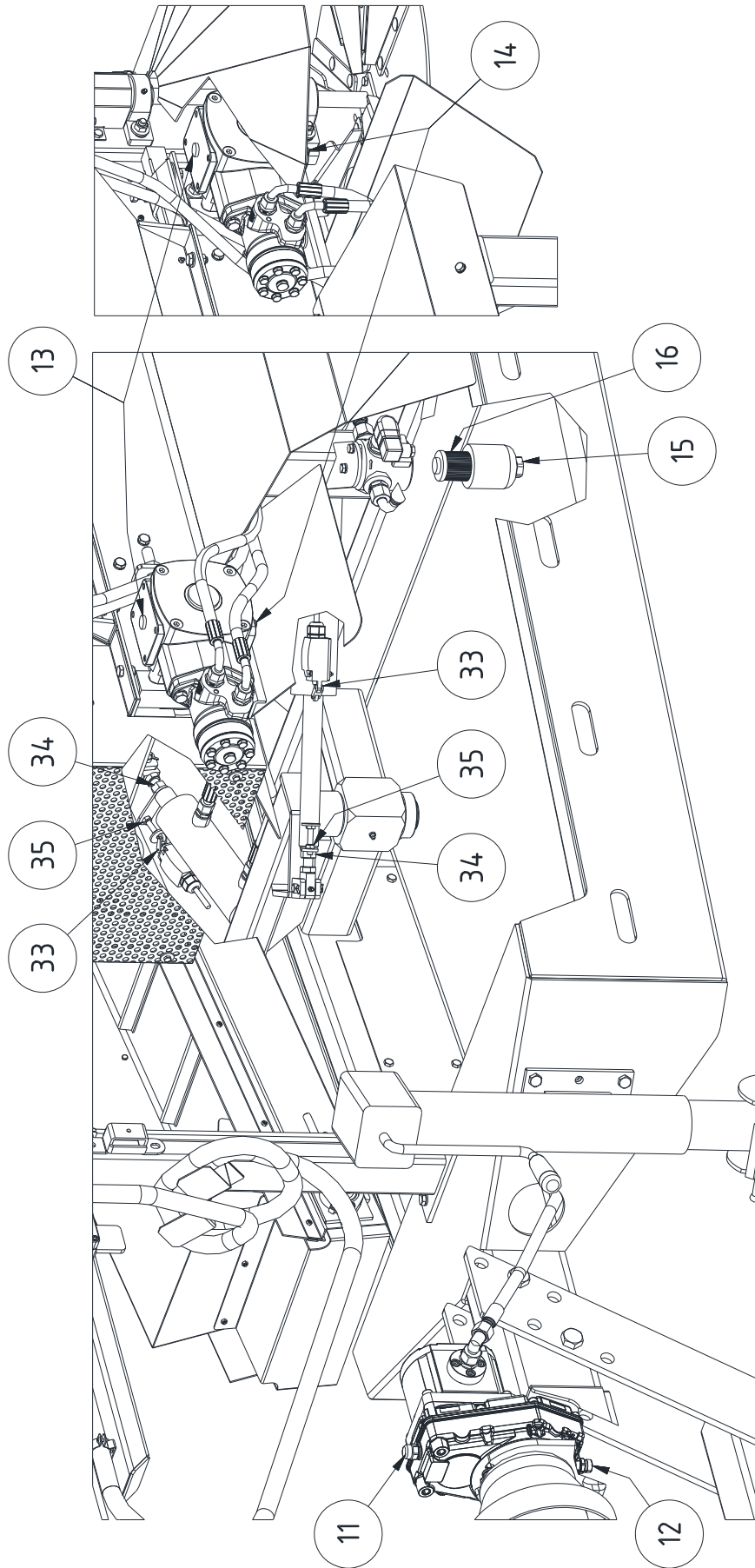


Fig.8: Change gearbox / filter change / cylinder end stop oil

Change hydraulic tank oil (as required)

- Swing out cross conveyor if necessary.
- Unscrew filler plug (22).
- Release the suction hose (23) and drain the oil.
- Replace the pressure filter **Order no.: 10922** (see page 20)
- Screw on the suction hose.
- Fill **Plantosyn 3268 ECO** oil up to middle of sight glass (24).
- Screw on the filler plug (22).

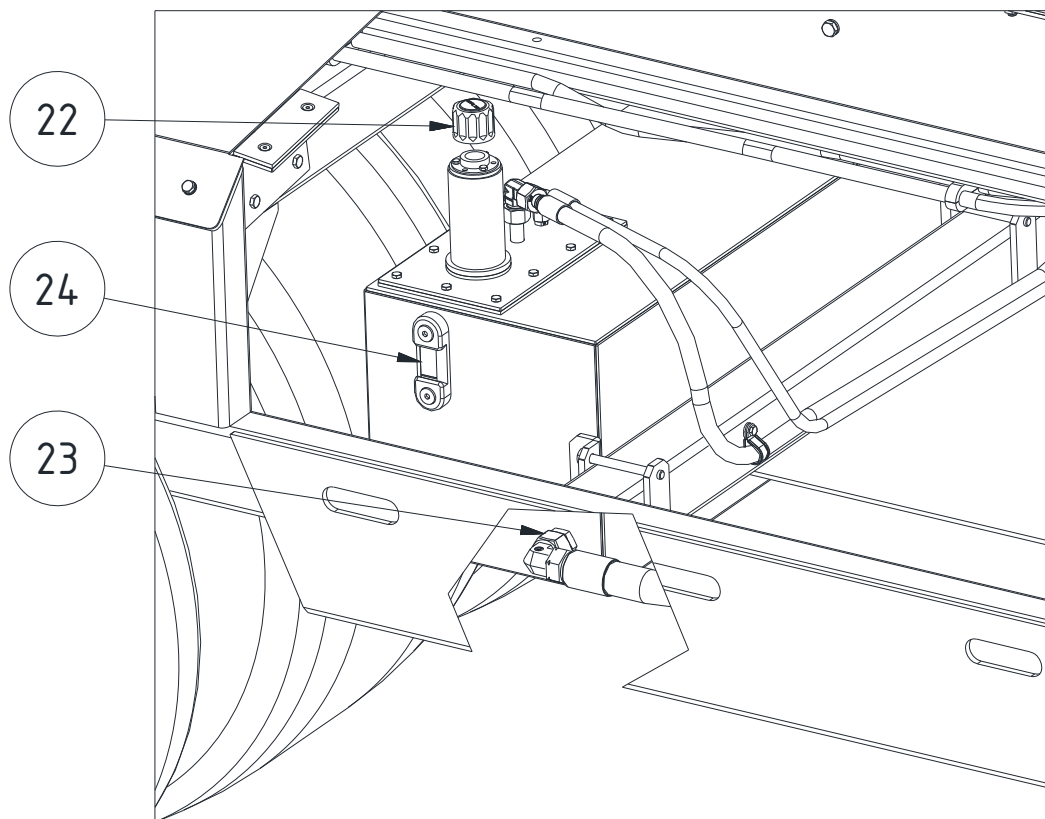


Fig.9: Oil change for hydraulic tank



This is a closed hydraulic circuit. To prevent possible contamination, the filter element (16) on the pressure filter must be replaced as soon as the ERROR light on the control panel lights up!



Used oil poses a danger to the environment; please dispose in an environmentally friendly manner.

Service shaft (every 100 operating hours)



Maintenance work on the shaft may only be carried out by authorised personnel.

- Tighten the wheel nuts.
- Check wheel hub clearance and adjust if necessary.

Retension conveyor belt (if slipping)

- Release counter nut (13) on both sides.
- Tighten nut (14) on both sides evenly, clockwise, each $\frac{1}{2}$ turn, gradually.
- Tighten counter nut (13) on both sides.



Too much tension will shorten the service life of the conveyor belt!

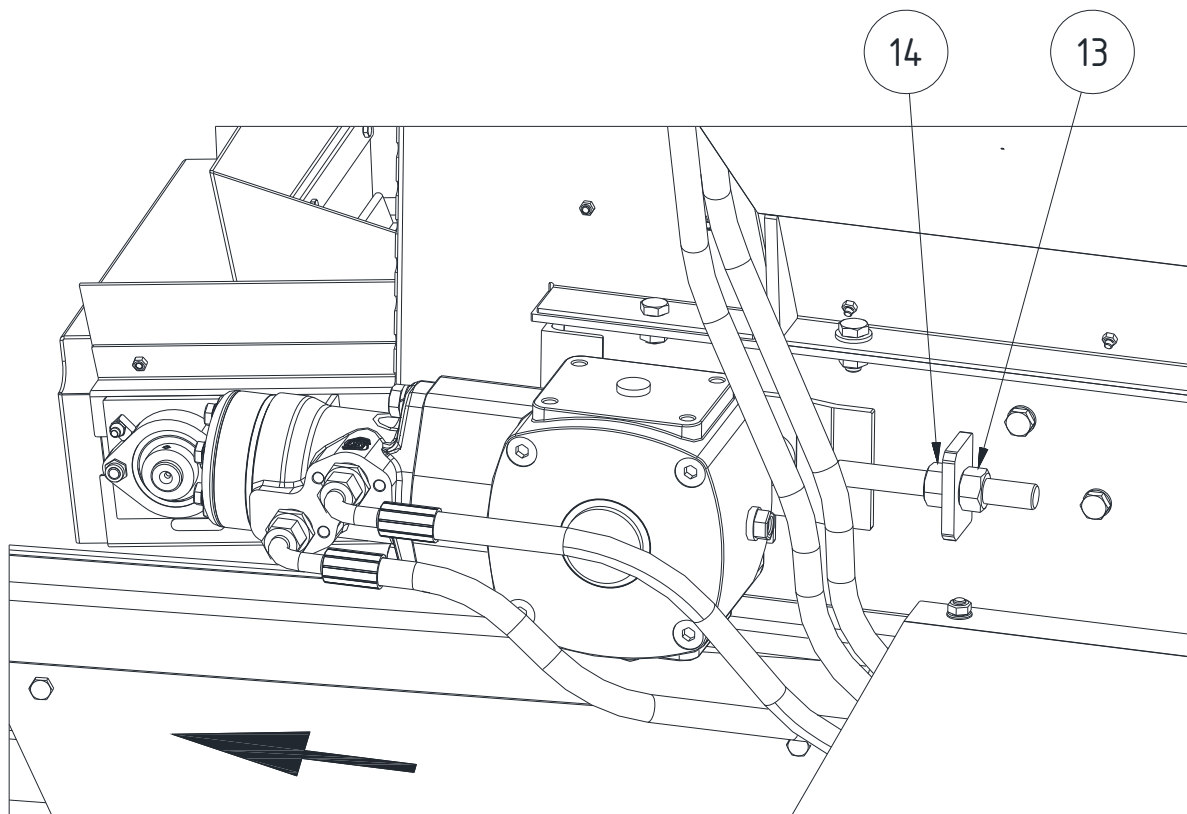


Fig.10: Retension the conveyor belt

Removing and installing conveyor belt

(See page 25, Fig. 11)

- Cross conveyor (16) must be swung out and down.
- Disconnect hydraulic connectors and remove spreader (1) by loosening screws (2).
- Remove the wheel cover (3) on both sides.
- Remove splash guard (4) and belt roller cover (5).
- Remove the rubber cover (6) at the front and rear (in the direction of travel on the right).
- Relax the conveyor belt (7) on both sides by loosening the nuts (8).
- Remove connecting screws (9) to the hopper (10).
- Remove connecting screws (11) to the chassis (12).
- Loosen and remove the tension rings of the bearing (13) (in the direction of movement to the right).
- Release screws (14) on side panel (15) and remove completely including bearing (13).
- Remove conveyor belt (7).

For installation do the process in reverse.

Retensioning the conveyor belt after installation

- When the conveyor belt is relaxed, mark a length of 1000 mm on both sides of the conveyor belt.
- Tighten the conveyor belt evenly on both sides using the two tension screws (see page 23 - Fig. 10) until the marked length is stretched to a maximum of 1003 mm.
- Run in the conveyor belt for approx. 30 minutes until it runs in the middle between the side guides and readjust if necessary.



The conveyor belt must not touch the sides, otherwise it will be damaged. When readjusting the conveyor belt on the side, retighten gradually, where the belt touches.

Too much tension will shorten the service life of the conveyor belt!

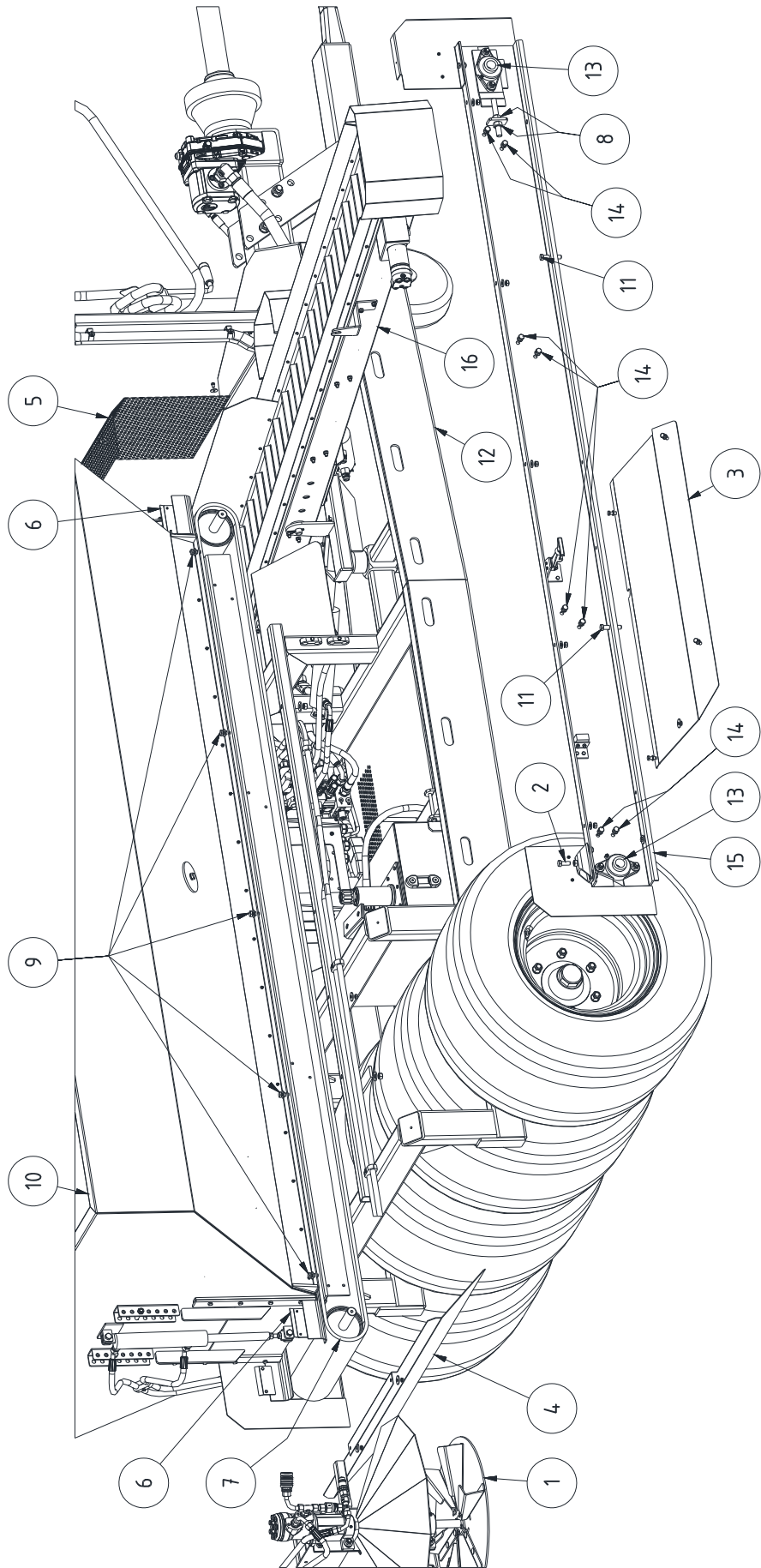
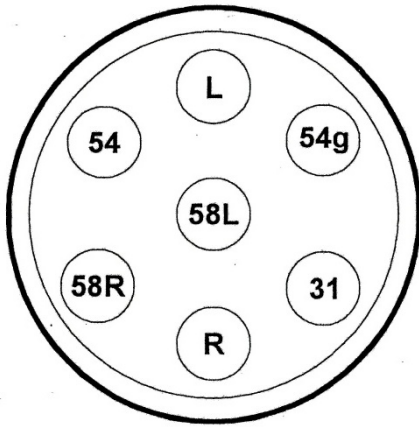


Fig.11: Removing and installing conveyor belt

Lighting system

The lighting system must be connected to the towing vehicle using the seven-pin plug.



Short description	Function	Cable colour
L	Flashing light on the left	yellow
54g	(Battery of towing vehicle +)	---
31	Earth	White
R	Flashing light on the right	Green
58R	Tail light on the right	Brown
54	Brake light	Red
58L	Tail light on the left	black

Fig.12: Connection diagram of the 7-point plug

Hydraulic brake axle[#]

- Connect plug (20) to control unit circuit of towing vehicle.
- Ball valve (21) must be open (position A).
- The brake is applied when operating the control unit on the towing vehicle.
- To park when the brake is applied, the ball valve (21) must be closed (position B), then disconnect the plug (20).

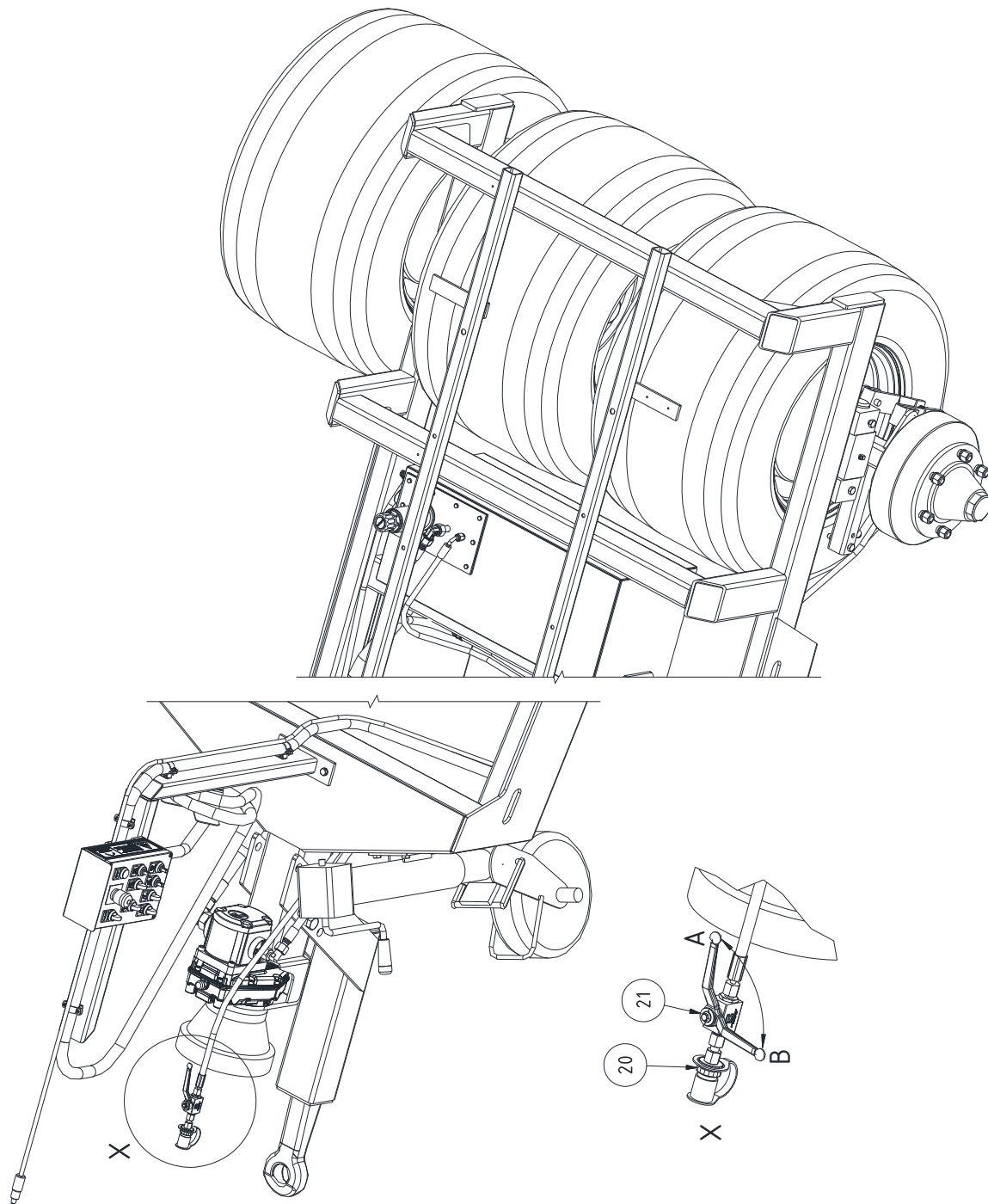


Fig.13: Hydraulic brake axle

Troubleshooting

Problem	Cause	Solution
Control is not working	PTO or power connection not connected (indicator (green) does not light)	Connect the PTO shaft and power supply to the power of the towing vehicle (see page 8)
	Incorrect operation of the controller	Read the operating instructions and observe the operating conditions and function sequence
	Selector switch (2) and/or (3) must not be in the zero position (Display via ERROR light)	Set selector switch (2) and/or (3) to the zero position (see page 10)
	EMERGENCY STOP button is activated (display via ERROR light)	Release the EMERGENCY STOP; (see page 10)
	Oil flow and oil pressure affected by dirty filter (Display via ERROR light)	Replace filter element (See page 10 and 20)
	Not enough oil in oil tank	Check sight glass on oil tank and top up with oil
	Hydraulic hoses or electrical plugs have come loose	Check hydraulic hose connections and electrical connector connections
Cross conveyor belt does not swing in and out	Fixing is closed	Release the fixing (55) (see page 16 Fig. 6)
	Cross conveyor is not completely lowered	Cross conveyor completely lowered (bottom setting!) (Controller 6) (See page 10, Fig. 2)
	Position switch (33) is not activated	Check the cylinder stop end of the position switch (33) (See page 21, Fig. 8)
Cross conveyor belt does not rise or lower	Cross conveyor is not fully swung out	Cross conveyor completely swung out (bottom setting!) (Controller 5) (See page 10, Fig. 2)
	Position switch (33) is not activated	Check the cylinder stop end of the position switch (33) (see page 20)
	Selector switch (3) not in the zero position	Set selector switch (3) to zero position (see page 10 Fig. 2)
Disc spreader does not engage	Cross conveyor is not fully swung in	Cross conveyor completely swung in (bottom setting!) (Controller 5) (See page 10, Fig. 2)
Conveyor belt does not start	Conveyor belt slips	Retension the conveyor belt (See page 23, Fig. 10)

Uneven flow rate	Conveyor belt speed too slow	Increase conveyor belt speed using the controller (4) (See page 10, Fig. 2)
Uneven spreading pattern	Spreading disks are set incorrectly	Set the spreading discs (88) correctly (See page 14, Fig. 5)
Spreading width is too narrow	Spreading discs turn too slowly	Increase spreading speed using the controller (8) (see page 10 - Fig. 2)
Spreading thickness to thin or Output quantity too little	Too little material is transported	Increase gate opening (see page 16 Fig. 6 and page 13 Fig. 3)
	Spreader speed set too high	Reduce spreader speed using controller (8) (See page 10, Fig. 2)
	Cross conveyor belt speed too high	Cross conveyor belt speed reduce using controller (7) (See page 10, Fig. 2)
	Conveyor belt speed too slow	Increase conveyor belt speed using the controller (4) (See page 10, Fig. 2)
Spreading thickness too thick or Output quantity too much	Too much material is transported	Reduce the gate opening (see page 16 Fig. 6 and page 13 Fig. 3)
	Spreader speed set too slow	Increase spreading speed using the controller (8) (see page 10 - Fig. 2)
	Cross conveyor belt speed too slow	Cross conveyor belt speed increase using controller (7) (See page 10, Fig. 2)
	Conveyor belt speed too high	Reduce conveyor belt speed using the controller (4) (See page 10, Fig. 2)
Brake does not release	Ball valve is closed	Open ball valve (21) (see page 27 Fig. 13)

Fig.14: Troubleshooting



Electrical or hydraulic faults may only be inspected by qualified personnel. No modifications may be made to the control cabinet, operating unit or hydraulic block