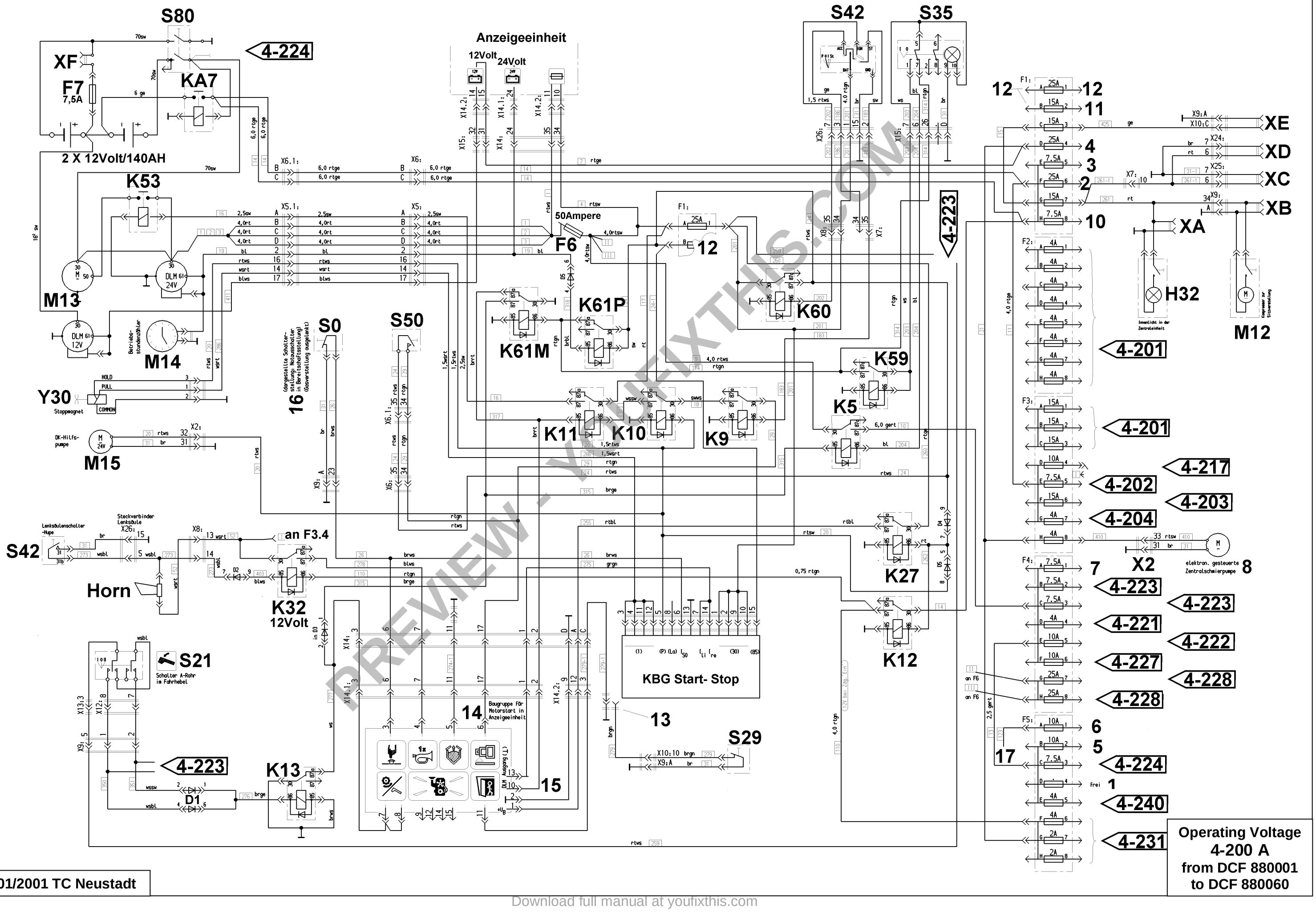
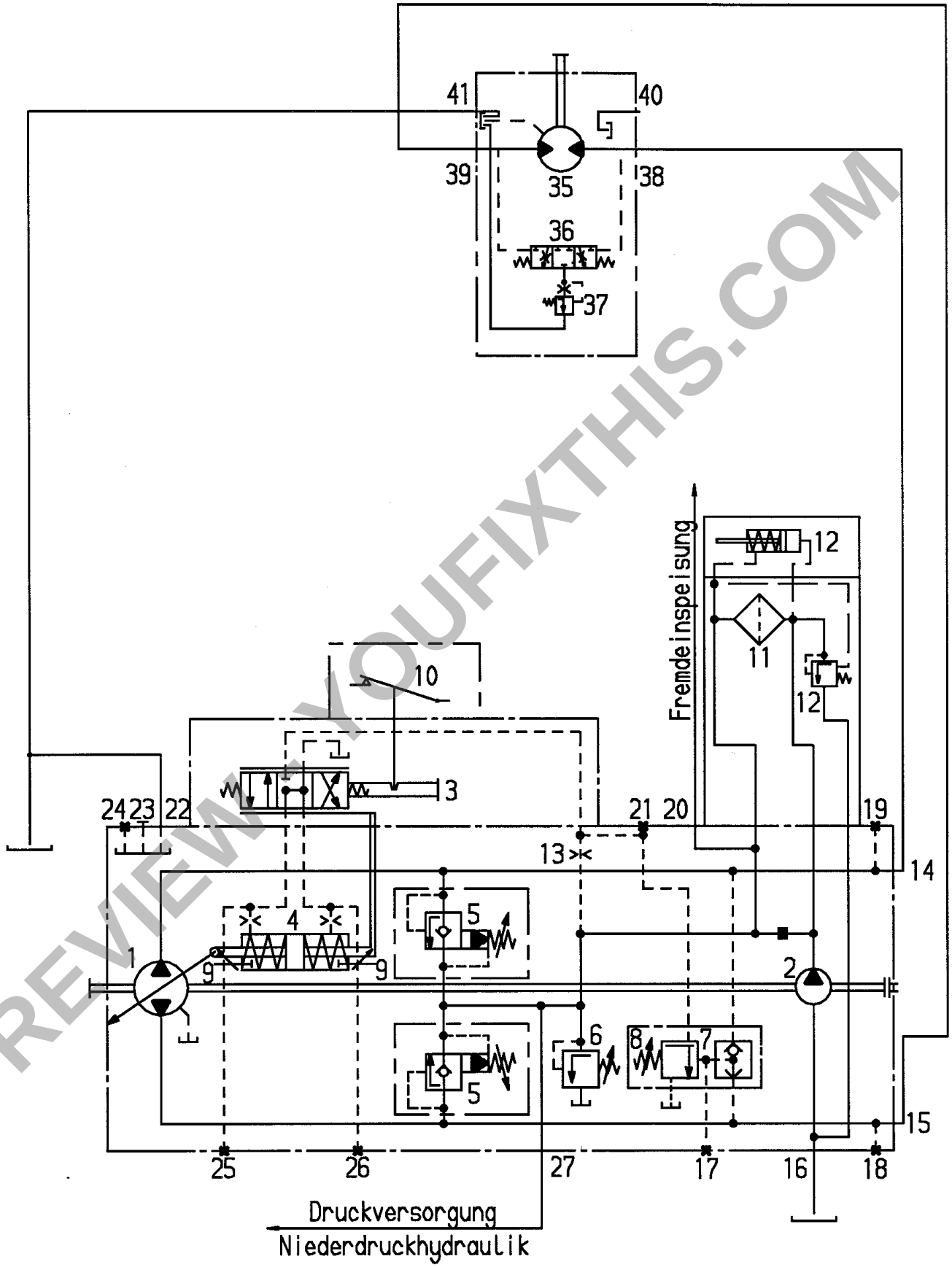


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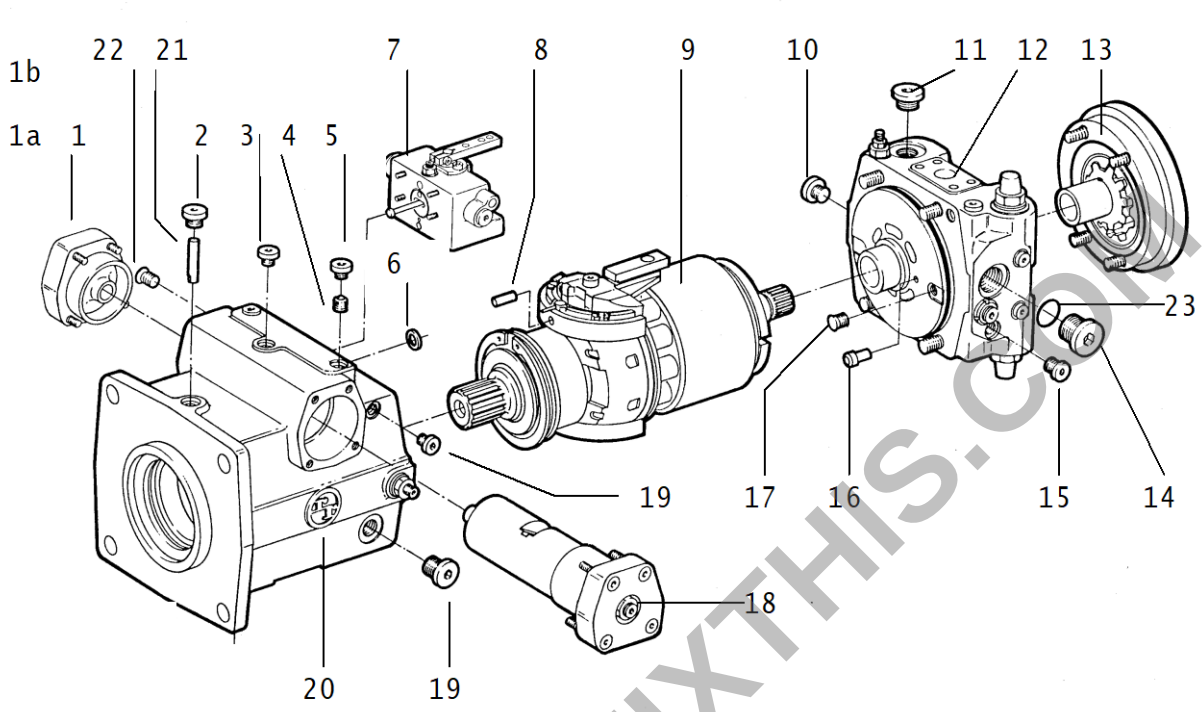
Connection Diagram



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Individual Subassemblies, Pump (Rexroth)



1	Regulating piston cover
2	Screw plug M12x1.5
3	Screw plug M16x1.5
4	Nozzle M10 – 1.0
5	Screw plug M16x1.5
6	Washer
7	Control spool
8	Dowel pin 3x12
9	Driving mechanism
10	Screw plug M12x1.5
11	Screw plug M33x2
12	Connection plate, complete
13	Internal gear pump set
14	Screw plug M42x2
15	Screw plug M12x1.5
16	Seal
17	Double pull-off stopper M10
18	Regulating piston, complete
19	Screw plug M12x1.5
20	Housing
21	Dowel pin 3x12
22	Screw plug M12x1,
23	O-ring 39.34x2.62-NBR

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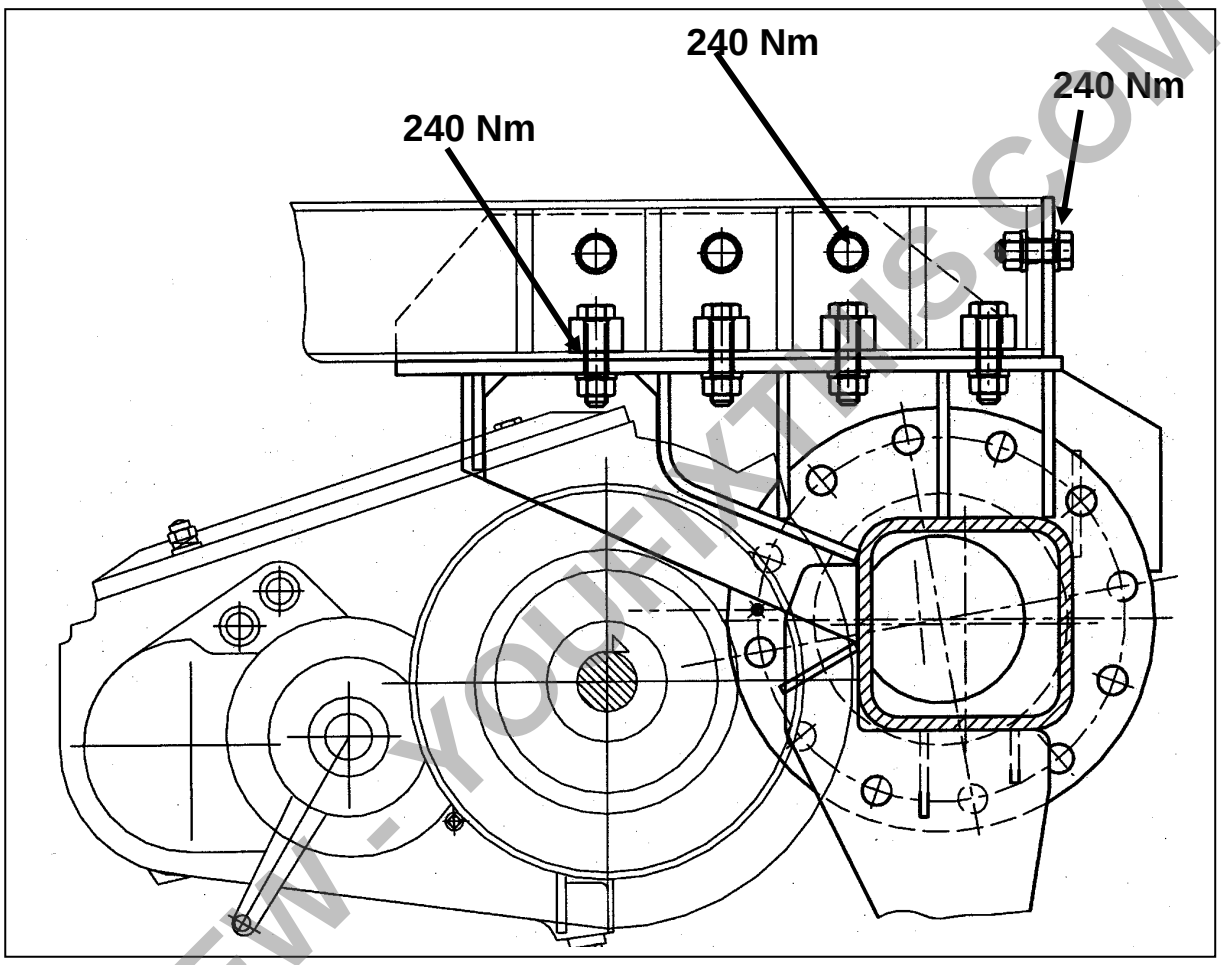
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Tightening Torques of the Machine Frame

Front Axle Support

The front axle support is screwed down to the machine frame with a torque of **240 Nm** on both sides. When changing the front axle support, one must see to it that no displacement in the longitudinal and cross-wise direction arises. Only one screw connection of a group is shown in the illustration at all times for a better overview.

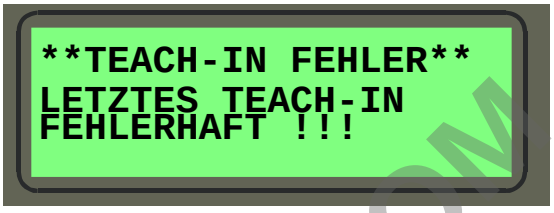
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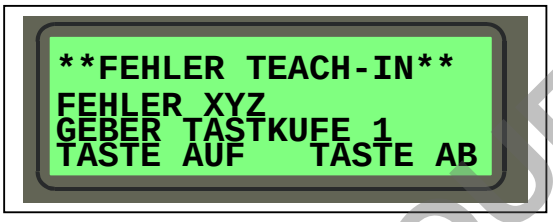
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The Teach-In that was run with errors is written into the memory (EEPROM), and the display can be seen on the display for 15 sec. when there is any further activation of the working hydraulics, even after shutting off the battery voltage, in order to show that errors that more or less limit the functioning of the individual operating modes arose during the last Teach-In (see the following table).

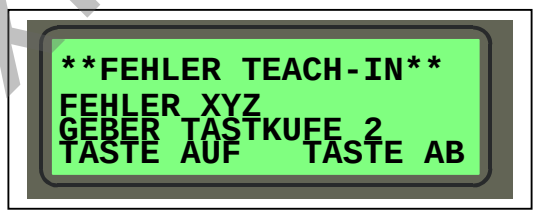


The errors are output in the following order in the display:

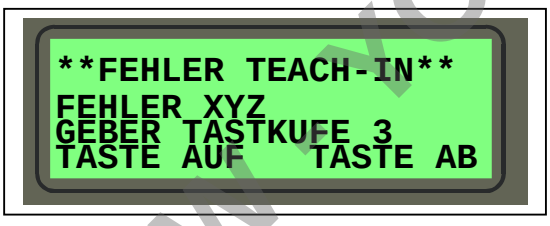
Error 1	Analog Transmitter Probe Skid 1
Error 2	Analog Transmitter Probe Skid 2
Error 3	Analog Transmitter Probe Skid 3
Error 4	Analog Transmitter Probe Skid 4
Error 5	Analog Transmitter Shaft Height
Error 6	Analog Transmitter Cross Pendulum
Error 7	Analog Pressure Transmitter



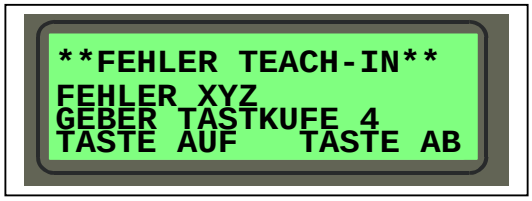
Error 1



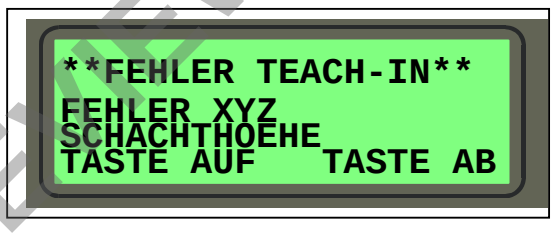
Error 2



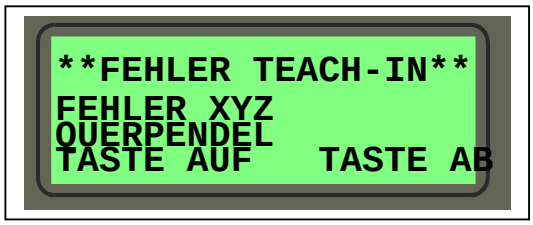
Error 3



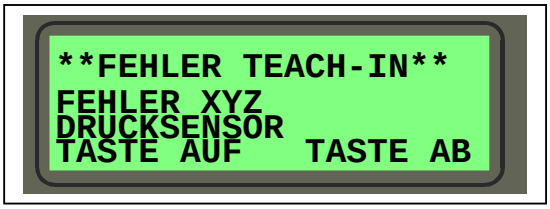
Error 4



Error 5



Error 6



Error 7

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Delivery Check

Inspection before Delivery to Check the Traffic and Operational Safety.

The following testing, adjustment and inspection work has to be carried out by you before the combine harvester and header are delivered.
The work time required for the delivery inspection does not fall under our warranty conditions.

The actual condition that is determined in each case is to be marked in the OK / Not OK column with an X. □
When defects are noted (- Not OK -), the corresponding explanations are to be added to the form. Corrections have to be carried out, if necessary, before delivery to the customer.
L = Left
R = Right

	OK	Not OK
1. Check engine oil level		
► Full marking on the oil dipstick	□	□
2. Check cooling fluid level		
► Lower edge, filling level pipe	□	□
3. Check hydraulic oil level		
► Maximum oil level with a lowered sloped conveyor	□	□
4. Check signal and illumination equipment		
► Driving headlights, brake light, flasher, work illumination, warning signal normal and reverse movement, flashing beacon,	□	□
5. Steering		
► From the stop limit on the left to the right 3 + 0.5 revolutions	□	□
6. Check foot brake		
► Brake fluid level up to the sieve of the brake fluid container and tightness of the brake lines	□	□
► Function of the individual wheel brake	□	□
► Even skid marks on the left and right when there is a braking test	□	□
7. Check hand brake		
► Standstill of the CF 80 when the hand brake lever is pulled	□	□
8. Function of the electrical control equipment,		
► Acoustic warning equipment		
► Loading control lamp, cooling water temperature	□	□
► Engine oil pressure, hand brake, flasher	□	□
9. Inspection of the on-board computer and selection of the language	□	□

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Position of the Connectors, CF80

	Position in the combine harvester	Number of the circuit diagram
X 2	Input into the central processing unit	00;01;02;03;05;17;19;20;23;31;40;41
X 5	Input into the central processing unit	00;05;09
X 5.1	Between engine and grain tank	00
X 6	Input into the central processing unit	00;01;05;21;22;23;24;27;31
X 6.1	Left side wall, under the power engine take-off	00;01;31
X 7	Input into the central processing unit	00;01;02;15;16;19;23;25;26;28;29;30
X 7.3	In the steering axle support, right	03
X 7.4	In the steering axle support, left	03
X 8	Input into the central processing unit	00;01;02;03;09;19;24;25;26;29;30;31
X 9	Input into the central processing unit	00;02;04;08;09;19;20;21;22;23;24; 25;26;29;30;31;40;41
X 10	Input into the central processing unit	04;08;09;19;20;21;22;24;27;28;41
X 11	Platform, right, on distributing valve	19;23;25;26;29;30
X 12	In the control panel	00;23;25;29;30
X 13	Input into the central processing unit	00;22;23;24;26;29;30;40;41
X 13.1	In the control panel	25
X 14	Input into the central processing unit	00;03;05;15;16;23;25
X 14.1	Cab roof over the display unit	03;05
X 14.2	Cab roof over the display unit	05;09;15;16;25
X 15	Input into the central processing unit	00;01;03;04;05;08;17;23
X 16	Input into the central processing unit	09;19;20;21;22;24;26;27;30;31;40
X 17	Input into the central processing unit	26;30
X 24	Platform, lamp unit, left	00;01
X 25	Platform, lamp unit, right	00;01;03
X 26	Under the driver's platform; for the steering column	00;01;02;03
X 27	On the drive axle, right, for the shaft	24;25;26;31
X 28	Platform, left, for threshing basket adjustment	03;15;16
X 30	In the steering axle support, right	01;02;03
X 31	Straw area hood at ascent stage in the back	01;02;17
X 32	At the grain tank, right, behind the central processing unit	01;17;23
X 33	In the steering axle support, right	02
X 34	In the steering axle support, left	01;02
X 44	In the central processing unit; electronics subassembly, start stop	
X 45	In the central processing unit; electronics subassembly, header return	22;24
X 101	Right cab capping piece; front; top	19;20;21;22;24;31

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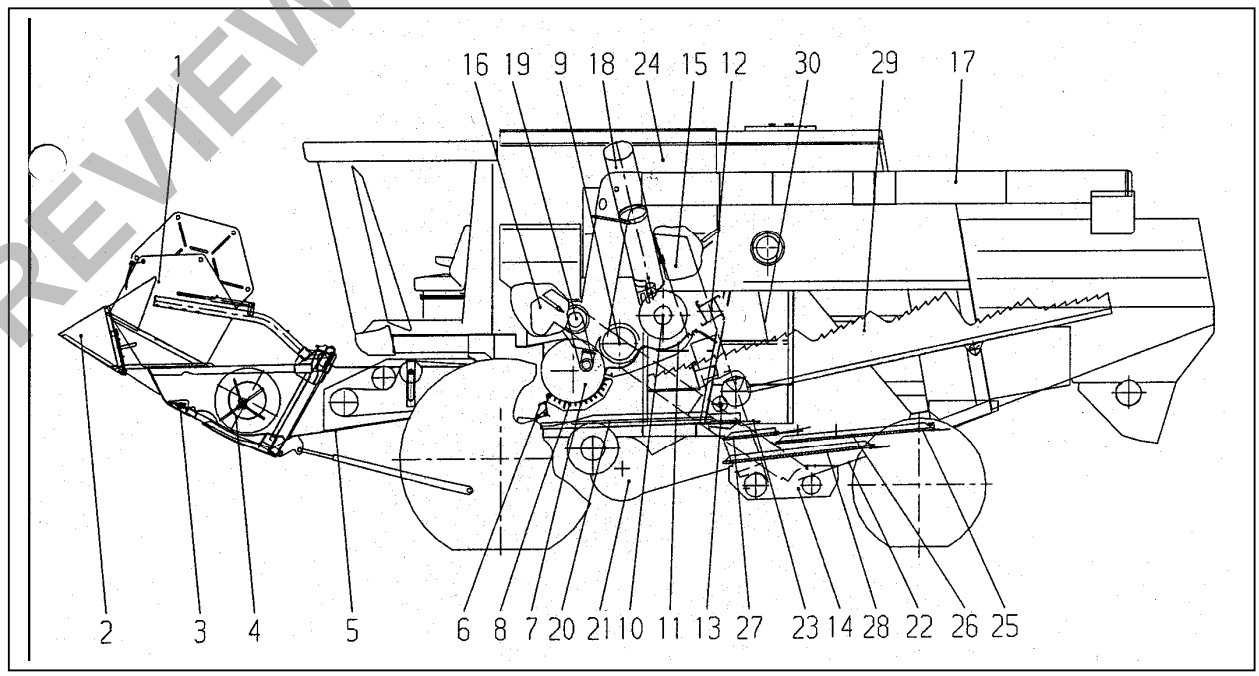
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Functional Elements

The combine harvester is outstandingly suited as a self-propelled combine harvester for harvesting cereals and seeds ("usage as intended"). It distinguishes itself by a high level of work comfort, enormous performance capacity and extraordinary reliability. It has proven itself many times over in practice under the most difficult conditions. It effortlessly handles even moist grain, crops with undergrowth, lodged crops and locations on a slope, for example.

Headers of various widths are available to choose from. The dismantling of the header for road transport only requires short take-down times. A special trailer serves in the transport of the header.

1 Reel
2 Dividing device
3 Cutter bar
4 Auger
5 Sloped belt conveyor
6 Stone trap
7 Threshing drum
8 Concave
9 Guide drum
10 Separating drum
11 Separating concave
12 Straw drum
13 Hillside leveling auger
14 Auger casing with grain and tailing augers
15 Grain elevator
16 Tailings elevator
17 Unloader auger
18 Cross grain auger
19 Discharging auger, grain tank
20 Grain pan
21 Axial fan
22 Grain return pan
23 Grain pan rake
24 Grain tank
25 Ear sieve
26 Upper sieve, 2nd sieve level
27 Cascade sieve, 1st sieve level
28 Lower sieve, 3rd sieve level
29 6-hurdle straw-walker
30 Trap sheet



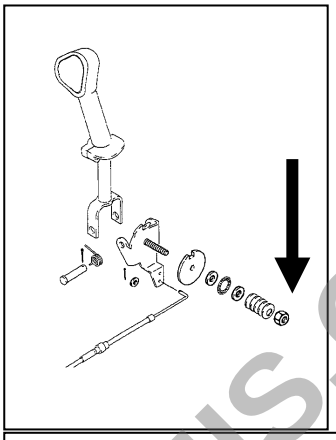
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TROUBLESHOOTING, HYDROSTATIC GROUND DRIVE

Problems with the ground drive could be due to mechanical or hydraulic reasons.

Mechanical Sources of Malfunction:

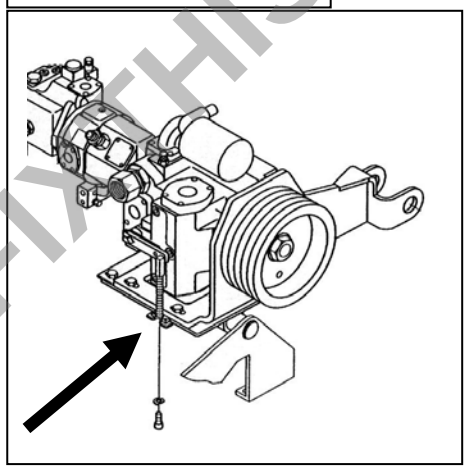


1. **Control of the hydrostatic drive pump through the Bowden cable**
   • Joystick moves over the entire adjustment range with too much difficulty or too easily

   ➡ Set the parking brake on the joystick

   The joystick moves into the neutral position with difficulty and is then easy to operate

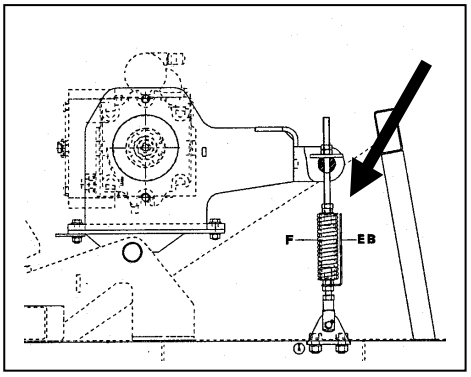
   ➡ The ball joint of the Bowden cable on the pump is too stiff



2. **Pump Drive**
   • The ground drive doesn't provide any traction power or the full driving speed

   ➡ Readjust the pretension of the drive belt

   ➡ Check the joined belt for wear and tear and change it if necessary



3. **Gearbox**
   • No high pressure is generated

   ➡ Gear is not engaged

   ➡ The transfer of power to a drive wheel is interrupted

   • The full high pressure is immediately generated
   (This could be possible after a gear change under pressure)

   ➡ 2 gears are simultaneously engaged in the gearbox

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Technical Data

Header

Chopping widths..... 6.0 m; 6.6 m; 7.8 m
Cutting system..... Schumacher
Number of double fingers..... 40; 43; 52
Sickle drive..... Drive through planetary gears
Sickle speed..... 1.71 m/s
Field guidance..... Automatic cross-wise and longitudinal tracking
Accident protection system..... Quick stop and shaft and header return
Reel..... 6-part with plastic or steel prongs
Reel drive..... hydraulic
Reel adjustment..... hydraulic (horizontal and vertical)
Reel speed..... 5 – 48 r.p.m.
Feed auger diameter..... 610 mm

Threshing unit

Threshing principle.....4 – drum threshing / separating system
Threshing channel width..... 1630 mm
Threshing drum diameter..... 600 mm
Guide drum diameter..... 395 mm
Separating drum diameter..... 570mm
Threshing drum speed..... 386 – 1250 (without reduction gear)
Number of straw walker hurdles..... 6
Number of drop stages..... 5
Straw walker area..... 7.4 m²
Concave area..... 1.02 m²
Separating concave area..... 1.45 m²
Outflow rake..... 0.34 m²
Overall separation area..... 10.21 m²

Cleaning unit

Lower / upper sieve..... Flap sieve
Operating principle.....3 – stage cleaning
Cleaning fan..... Axial fan
Speed of the fan..... 400 – 2500 r.p.m.
Overall sieve area..... 6.8 m²

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Lubrication - Filters - Fluids

Engine Lubrication

Check oil level .....Daily
CF80 oil and filter change . .....Every **240** operating hours, or once a year
Oil type.....CASE IH NO.1, 15 W-40
Oil filling amount with filter change.....21 liters

Cooling System

Check the filling level in the compensation reservoir.....Daily
Coolant change..... Every **2000** operating hours
.....(or every two years)
Coolant additive change.....Always with the coolant change
Coolant filter change..... Every **250** operating hours
Coolant filling amount..... 65 liters

Fuel System

Fuel filter in the engine.....Every **500** operating hours
.....or change it when there is a drop in performance
Water separation filter.....Drain the water every **50** operating hours
.....or change it when there is a drop in performance
CF80 fuel tank capacity.....520/650 liters

Air Filter

Air filter maintenance period ..... Clean the filter when the clogging display lights up in the A panel
Main filter element change.....Once a year or after three cleanings
Safety filter change.....At every 5th change of the main filter or once a year.

Never clean it.

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1 GENERAL ISSUES

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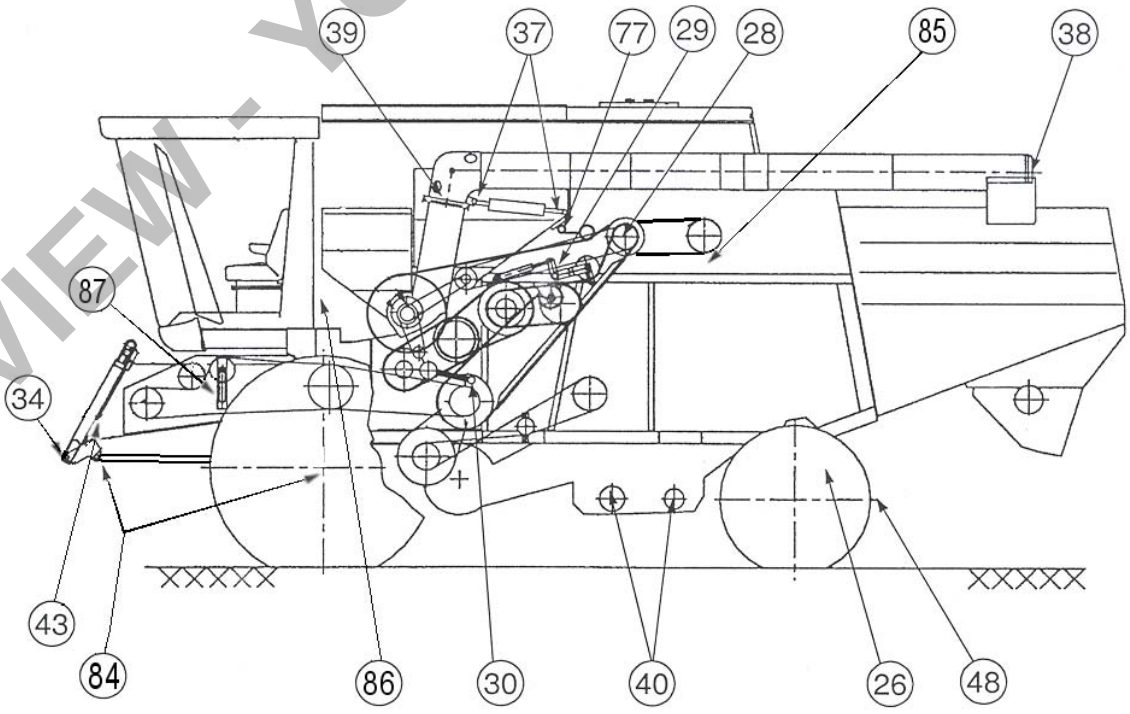
Individual Lubrication Nipples, Left Side, for Electrical-Mechanical Field Tracking

120 operating hours

- ✓ (26) Center axle bolts, steering axle
- ✓ (28) Engine power take-off, front side take-off shaft
- ✓ (29) Threshing unit clutch, guiding idler arm
- ✓ (30) Header clutch, guiding idler arm
- ✓ (37) Working cylinder, unloader auger, 2 nipples (if existing)
- ✓ (38) Unloader auger, auger end
- ✓ (39) Unloader auger, rim bearing, 3 nipples
- ✓ (40) Grain and tailing auger bearings, 2 nipples
- ✓ (43) Lower shaft spindle bearings
- ✓ (84) Shaft lift cylinder, 2 nipples
- ✓ (85) Hydrostatic drive pump pedestal
- ✓ (86) Concave adjustment device, 2 nipples
- ✓ (87) Attachment drive belt, guiding idler arm
- ✓ (77) Unloader clutch, guiding idler arm

360 operating hours

- ✓ (48) Trailer hitch, rear axle



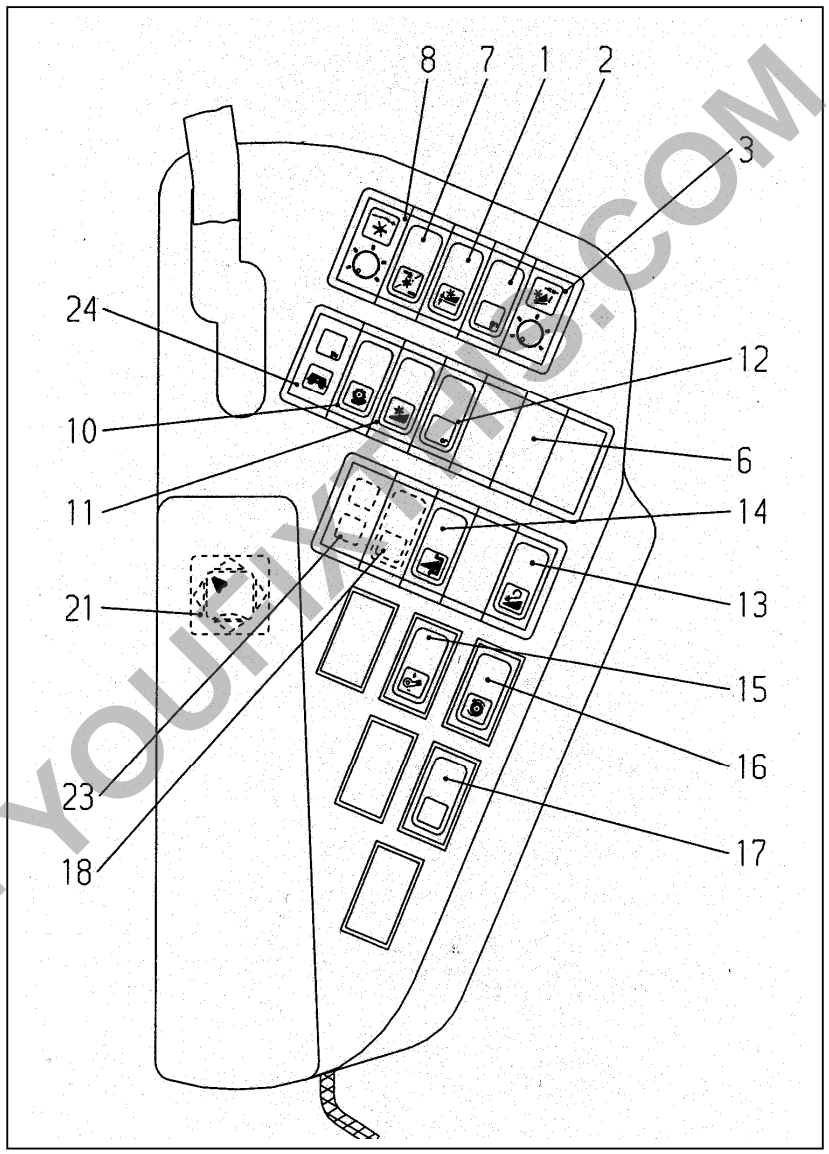
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Control Panel Design P (Electrical-Mechanical Field Tracking)

Switching elements and control lamps are arranged on the control panel.

Control panel for electro-mechanical adjustment to soil contour



1 Switch for adjustment to soil contour

Upper position: high cut „ON“
Mid-position:
adjustment „OFF“
Lower position:
adjustment „ON“

To use the functions of switch 2, the machine must run at low travelling speed!

2 Switch for laid grain
(is only operable when switch 1 is in position „ON“)

In connection with switch 3, the swing range of the header can be narrowed down when working in laid grain so that the header seems to be guided with hanging blade fingers.

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Discharge pipe swung out


Unloading coupling engaged

Control array


The nominal height of the header guidance and adjustment to the ground are set and performed, respectively, by means of the potentiometer.
When the header guidance is set for "high cut", the actual cutting height is displayed above the symbol (height of cutter bar – with header pulled up - above ground, measured in cm).
When the header guidance is set for „adjustment to soil contour“,„LO“ (LOW) is displayed when the header has been lowered.
If the header is higher than 90 cm above the ground, „HI“ (HIGH) will be displayed.


Adjustment of threshing gap between concave and threshing cylinder.
The gap can be adjusted (when the thresher is running) by means of the pushbuttons.
The distance is displayed above the symbol in the form of a value that ranges between step (notch) 0 (minimum) and step 8 (maximum permissible setting range).
Steps 0 to 8 correspond to the steps specified in the setting table.

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	X 9			Central processing unit
	X 12			
	X 13			Central processing unit
	X 14			Central processing unit
	X 15			Central processing unit
	X 24			
	X 25			
Plugs	X 26			
	X 90	Plug connection	Grain yield measurement	Under the seat console
	X A	12-volt socket	For the hand lamp	In the central processing unit
	X B	12-volt socket	Cigarette lighter	On the left next to the driver's seat
	X C	12-volt socket	For the hand lamp	Right lamp unit
	X D	12-volt socket	For the hand lamp	Left lamp unit
	X E	12-volt socket	For the cooling box	Under the passenger's seat
	X F	12-volt socket	For the hand lamp	In front of the battery box

1 Not used (free)
2 Also see the circuit diagrams Lighting System **4-201**
3 Also see the circuit diagrams Cab **4-208**
4 Also see the circuit diagrams Air Conditioner **4-209**
5 Also see the circuit diagrams Field Tracking **4-225** or **4-226** and the circuit diagrams Threshing Basket Adjustment **4-215** or **4-216**
6 Also see the circuit diagrams Reel Speed Adjustment **4-219** and Fan Speed Adjustment **4-221**
7 Also see the circuit diagrams Working Hydraulics **4-229** or **4-230**
8 Electronically-controlled central lubrication pump (option) Also see the circuit diagram **4-240**
9 Also see the circuit diagram Grain Tank Filling Display **4-217**
10 Radio, also see the circuit diagram Cab **4-208**
11 See the circuit diagrams Warning Device **4-202** and Display Unit **4-205**
12 See Presentation F 1 (presented twice) on the right next to F 6
13 Alternative connection possibility (close to K 43)
14 Subassembly for motor starting in Display Unit 2
15 Grounded on Pin 15 when ready to start
Grounded on Pin 10 when there is a dynamo at a standstill and positive when there is a rotating dynamo
16 Switch position presented: Emergency stop switch in ready position
17 24 volts applied when the threshing unit clutch is switched in
Also see the circuit diagrams Threshing Unit and Header Clutch **4-223**

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Mirror Adjustment
Circuit diagrams: **4-404 A** starting with Machine Number DCF 860103

Circuit Diagram Legend

	Number	Function	Remark	Location
Motors	M 1	Mirror adjustment	Right	In the right mirror
	M 2	Mirror adjustment	Left	In the left mirror
Switches	S 58	Mirror adjustment		Control panel
Plugs	X 9			Central processing unit
	X 10			Central processing unit
	X 15			Central processing unit

3 Mirror heating is not connected

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Unloader Clutch with Discharge Pipe Control

Circuit diagrams: **4-423 A** from Machine Number DCF 860103

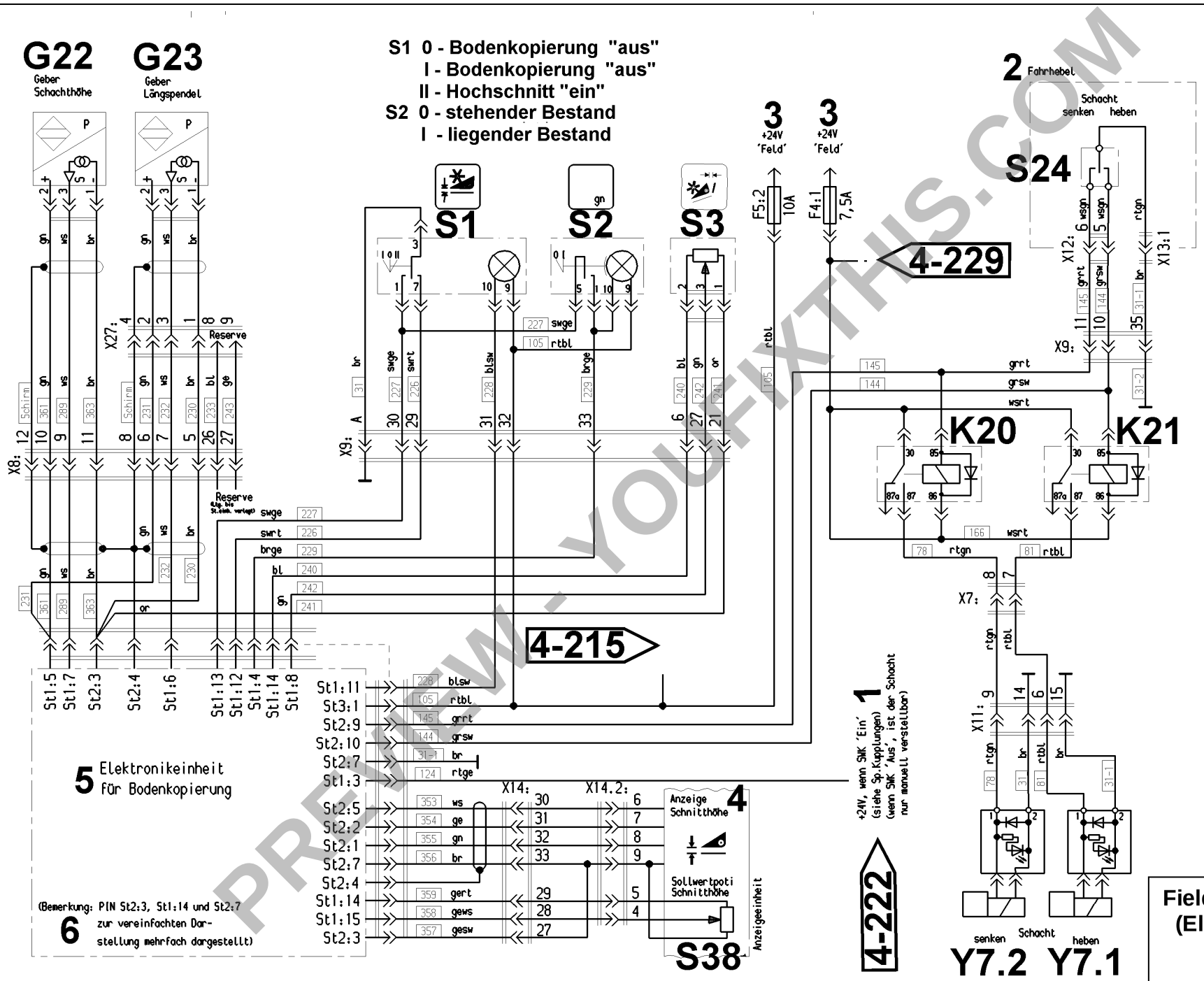
Circuit Diagram Legend

	Number	Function	Remark	Location
Diodes	D 1			Central processing unit
	D 2			Central processing unit
Trans-mitters	G 40	Safety circuit	For unloading	Grain tank flap
	G 41	Safety circuit	For unloading	Grain tank flap
Lamps	H 29	Unloading lighting		Cab roof under driver's door
Relays	K 4	Unloader clutch	Incremental relay	Central processing unit
	K 30	Unloader pipe out		Central processing unit
	K 31	Unloader pipe in		Central processing unit
Switches	S 21	Swivel discharge pipe	Key	In the joystick
	S 22	Unloader clutch		In the joystick
	S 73	Unloader pipe moved out		On the swivel device
Plugs	X 2			
	X 6			
	X 7			
	X 9			
	X 11			
	X 12			
	X 13			
	X 14			
	X 15			
	X 32			

1 Switching position is discharge pipe moved out; the end position has not yet been reached
(opens in the end position of discharge pipe out)
2 The connector for the harness is in the center on harness, on the left-hand side
3 24 volts with activated field position
4 Control lamps in the display unit
6 Switching position is discharge pipe moved out (opens when discharge pipe is moved in)
7 Connector at K 33 is currently not used (free)
8 On 12 volts of the working lighting
Also see the circuit diagrams Lighting **4-401 A**

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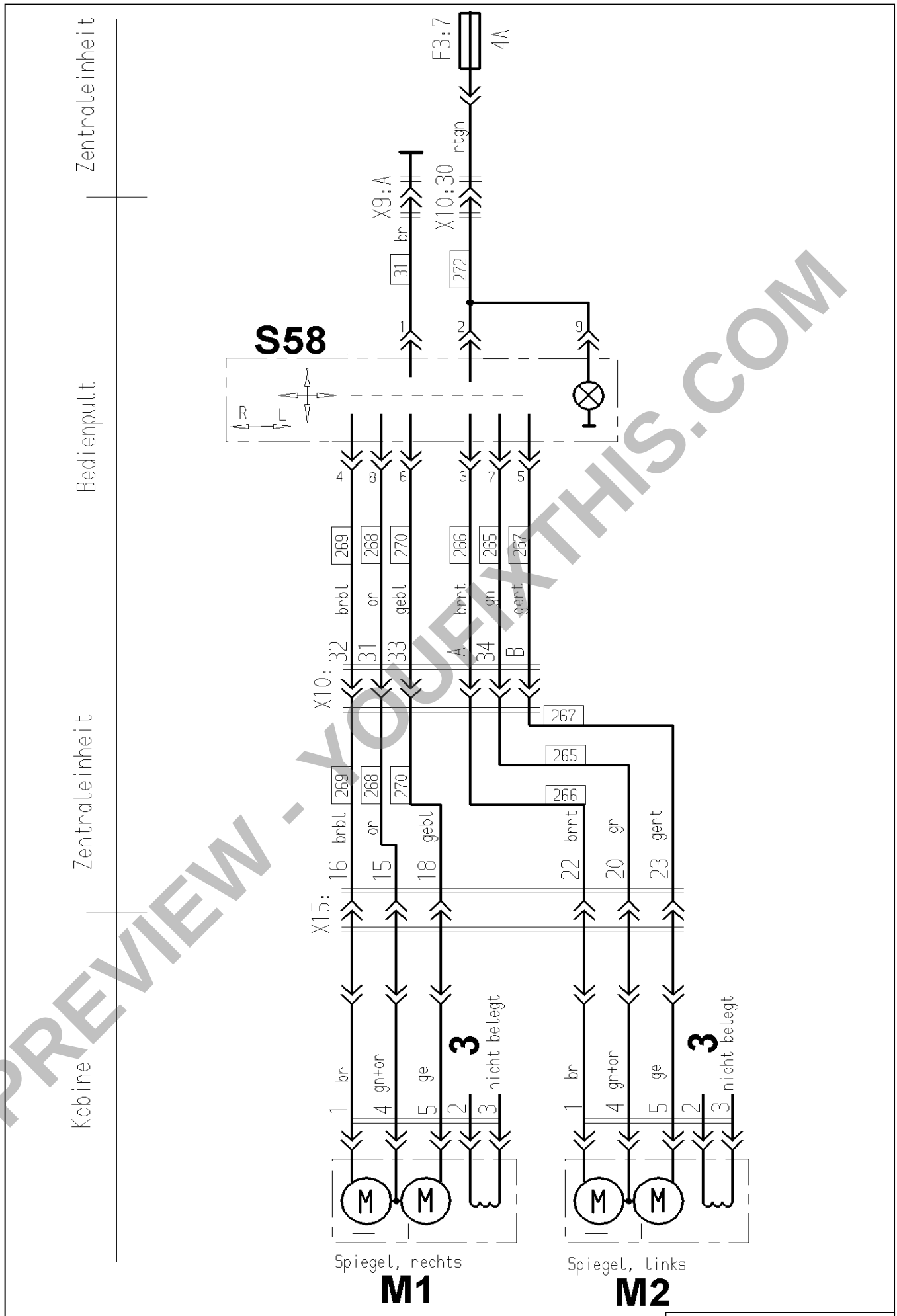
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Field Tracking Des. P
(Electrical-Mechanical)
4-225 A
from DCF 880001
to DCF 880060

12/2000 TC Neustadt

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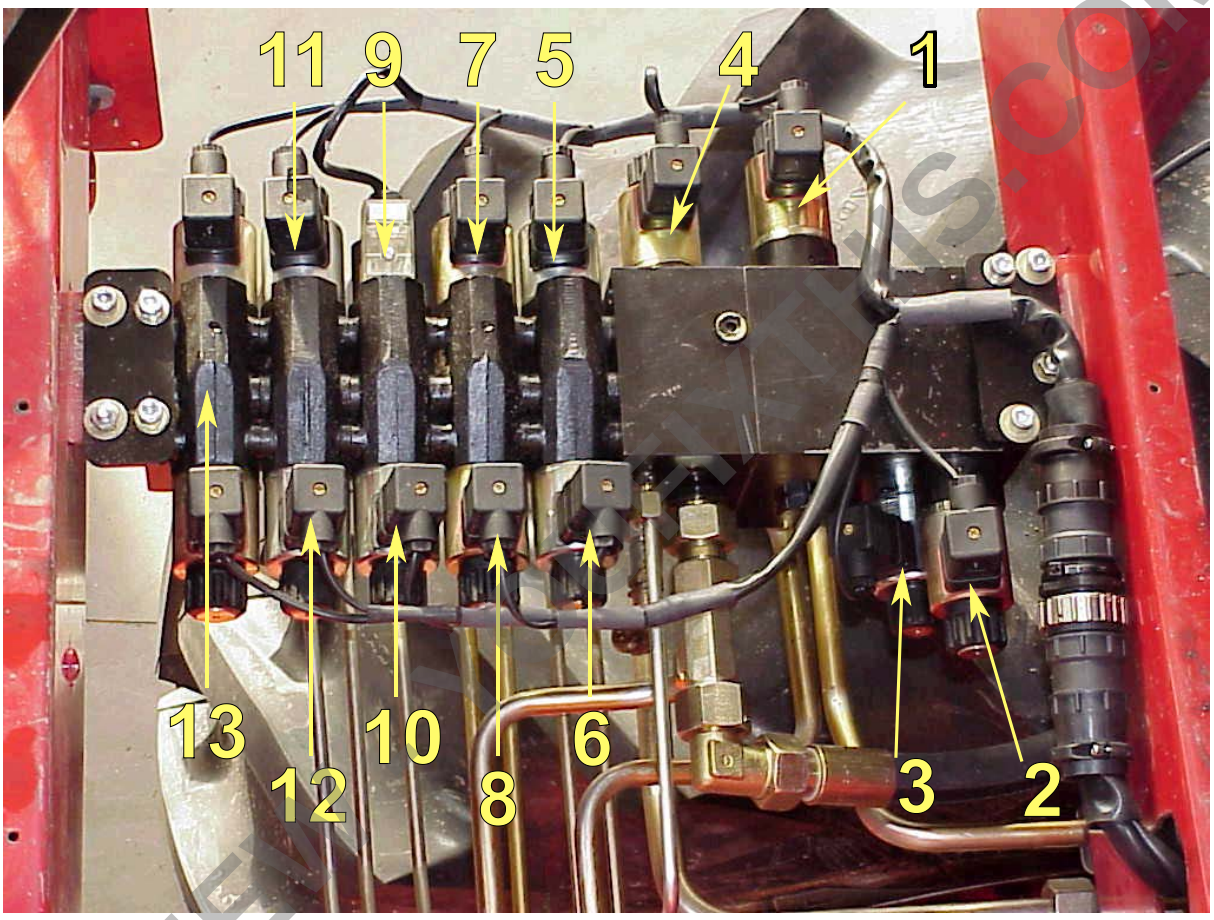
Mirror adjustment
4-404 A
from DCF 86 0103

03/2001 TC Neustadt

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If this screw-type, manual emergency actuation equipment is used, one must see to it that the actuation equipment is also completely brought into the starting position because otherwise the valve will not close!

Manual emergency actuation equipment is to only be used for use in checks over a short period of time. The usage involves a substantial danger of creating an accident!



1	Lift flow regulator
2	Lower flow regulator
3	Lift / lower shut-off valve
4	Flow regulator, reel drive
5	Magnet, move out discharge pipe
6	Magnet, move in discharge pipe
7	Prop. magnet, cross pendulum right
8	Prop. magnet, cross pendulum left
9	Magnet, lower reel
10	Magnet, lift reel
11	Magnet, reel forward
12	Magnet, reel backward
13	Accessory valve, special equipment

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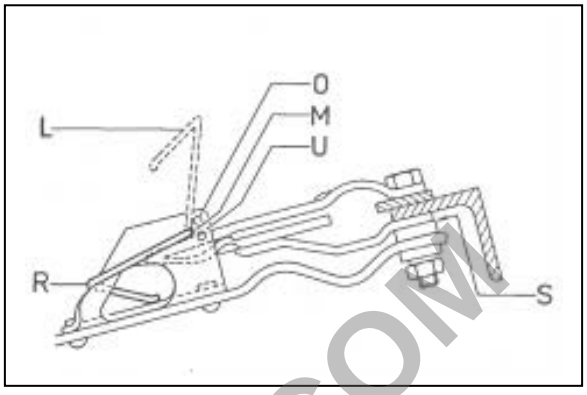
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Crop lifters

Use the crop lifters in case of difficult harvest conditions, especially for highly lodging crops.

Attach the crop lifters as shown in the picture:

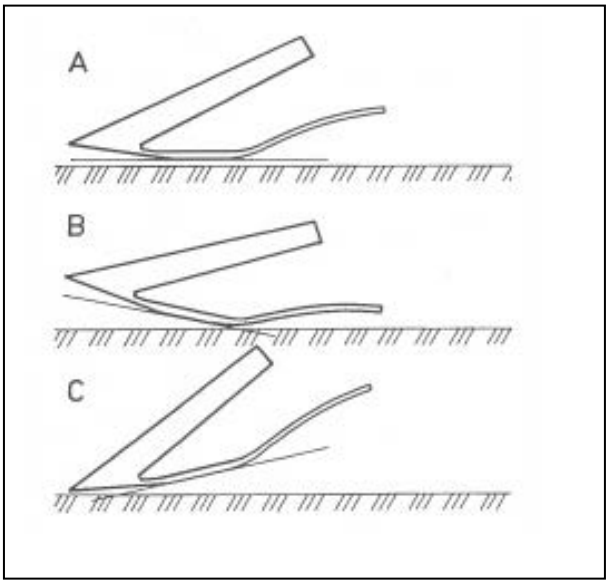
Slide the crop lifter into the holder **(K).**
Then move it upwards over the double finger and fix it in any of the three positions with the stop bar.



How to attach the crop lifter
L = Stop bar released
R = Stop bar engaged
O = Upper stop position
M = Middle stop position
U = Lower stop position
S = Washer
K = Holder

- Place the combine harvester on even ground to be able to find the correct position for fixing the crop lifters.
- Mount one of the crop lifters somewhere in the middle of the cutter bar.
- Lower the header until the crop lifter gently touches down. But make sure you never put pressure from the header onto the crop lifter by lowering it too far down.
- Check whether the sliding zone is touching the ground in parallel. If that is not the case, select another stop position according to the illustration given in the picture.
- Additional fine adjustment is possible by placing washers between the holder and the mowing fingers.
- The holder is pre-assembled. For headers with plastic reel, also check the lifter for contact points where it is rubbing against any tine of the reel. Then relocate the appropriate holder to the next screw.

Crop lifters will not work properly unless adjusted correctly as shown in the picture.
A holding device for non-mounted crop lifters is located in the header tray in the back on the right-hand side.



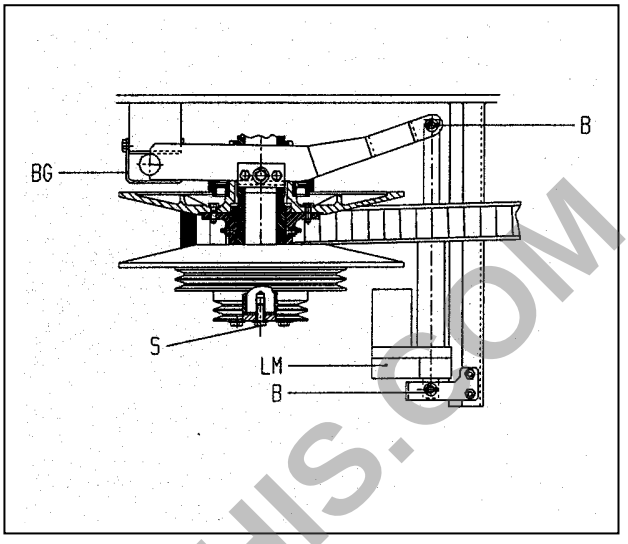
How to adjust the crop lifter properly
A correct setting
B wrong – the crop lifter is “climbing”.
C wrong – the crop lifter is “digging”.

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Demounting the drive variator

Protect the variator from falling down!



Pull-off device for variators

- Remove the belt.
- Detach the linear motor **(LM**) by loosening the 2 bolts (**B**)
- Demount the U-clamp (**BG**)
- Loosen the bolt (**S**) M 16 x 1 x 35 – 10.9 (torque **200 Nm**)
- Screw the ejector screw (**DS**) M 20 x 75 into the tapped bore, which has become vacant, to force the variator off the shaft.

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