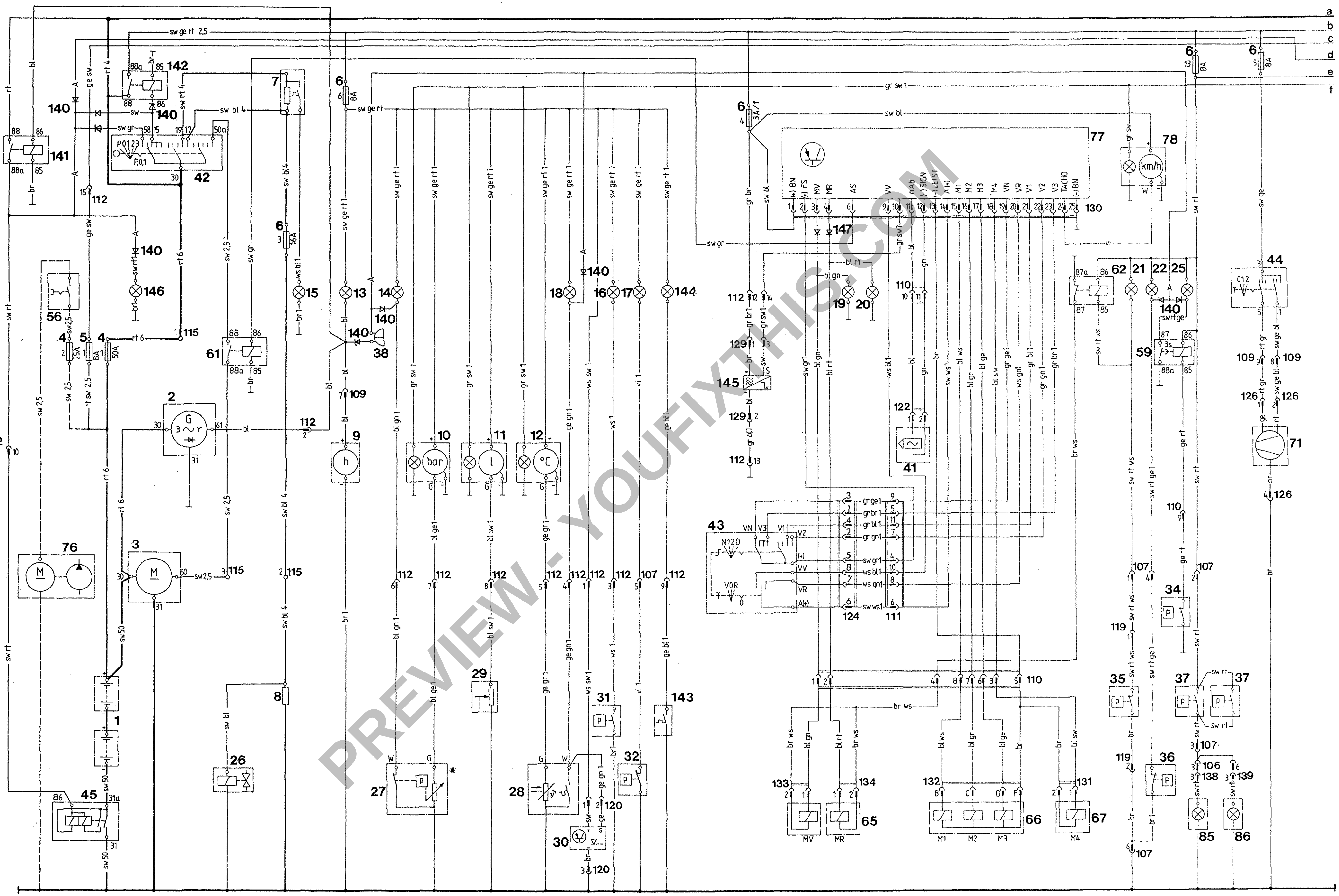
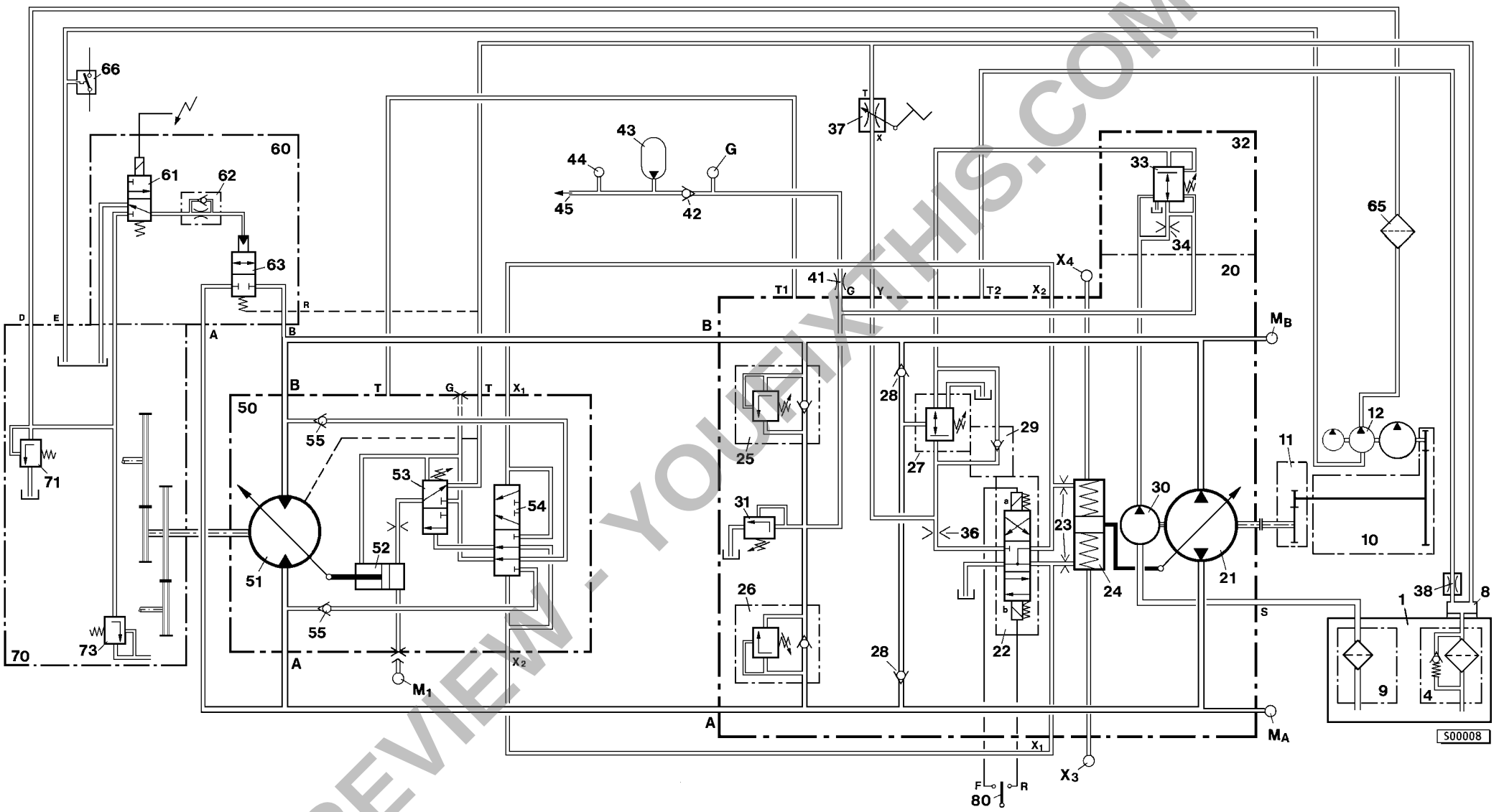


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Funktionsschema L551 Bild 12.15.08
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LIEBHERR

Datum / Edition / Date
07.93

Benennung / Description / Dénomination

Fahrhydraulik - Anlage
Travel Hydraulic System
Hydraulique de translation

Typ / Model / Type: L551

Ab / From / A partir de: 101

Blatt / Page / Feuille: 10.15.12

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Installation preload F_M and tightening torques M_A per DIN 13 part 13, wrench sizes of hex head screws per DIN 931, socket head screws per DIN 912.

Beginning with grade 10.9, the use of lock washers does no longer provide safety.

For special screws, such as Durlock or Tensilock, the tightening torques of the manufacturer should be observed.

When using impact wrenches, care must be taken so that the torque values are not exceeded. (Tightness must be checked with a torque wrench).

The torque values shown in the below listed charts can only be achieved with the use of a torque wrench.

Specific torques listed in drawings and or descriptions must be observed.

Tightening torques for screws with standard metric thread

Screw size	Preload values F_M based on Grades in N			Tightening torques M_A based on Grades in Nm			Wrench size for Hex head-screw		Wrench size for Socket head-screw	
	8.8	10.9	12.9	8.8	10.9	12.9	mm	Inch	mm	Inch
M 4 × 0,7	3 900	5 700	6 700	3,1	4,5	5,3	7	9/32	3	---
M 5 × 0,8	6 400	9 300	10 900	6,1	8,9	10,4	8	---	4	5/32
M 6 × 1	9 000	13 200	15 400	10,4	15,5	18,0	10	---	5	---
M 7 × 1	13 100	19 300	22 600	17,0	25,0	30,0	11	---	---	---
M 8 × 1,25	16 500	24 200	28 500	25	37	43	13	1/2	6	---
M 10 × 1,5	26 000	38 500	45 000	51	75	87	17	11/16	8	---
M 12 × 1,75	38 500	56 000	66 000	87	130	150	19	3/4	10	---
M 14 × 2	53 000	77 000	90 000	140	205	240	22	7/8	12	---
M 16 × 2	72 000	106 000	124 000	215	310	370	24	61/64	14	9/16
M 18 × 2,5	91 000	129 000	151 000	300	430	510	27	1-1/16	14	9/16
M 20 × 2,5	117 000	166 000	194 000	430	620	720	30	1-3/16	17	43/64
M 22 × 2,5	146 000	208 000	243 000	580	970	830	32	1-9/92	17	43/64
M 24 × 3	168 000	239 000	280 000	740	1 060	1 240	36	1-7/16	19	3/4
M 27 × 3	221 000	315 000	370 000	1 100	1 550	1 850	41	1-5/8	19	3/4
M 30 × 3,5	270 000	385 000	450 000	1 500	2 100	2 500	46	1-13/16	22	7/8
M 33 × 3,5	335 000	480 000	560 000	2 000	2 800	3 400	50	2	24	61/64
M 36 × 4	395 000	560 000	660 000	2 600	3 700	4 300	55	2-3/16	27	1-1/16
M 39 × 4	475 000	670 000	790 000	3 400	4 800	5 600	60	2-3/8	27	1-1/16

Note: Preload forces and tightening torques are based on lightly lubricated screws and nuts (corresponds to medium friction $\mu_G = 0{,}14$). Nm = x 0.7375 = ft. lbs.

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1. Removal of Pump Distributor Gear

Note:

See Accident Prevention Regulations and Instructions in section 2 before installing and removing gear.

1.1 Remove the right or left fender. Close off the hydraulic tank with the shut off valve and relieve the hydraulic tank. Mark all lines and connections. Disconnect suction, pressure and control lines and all electrical connections from both pumps and drain oil into suitable container.

1.2 Loosen screws 55 and 56 and remove both hydraulic pumps 52/53 from gear 50. Disconnect oil filler fitting and oil level control from gear.

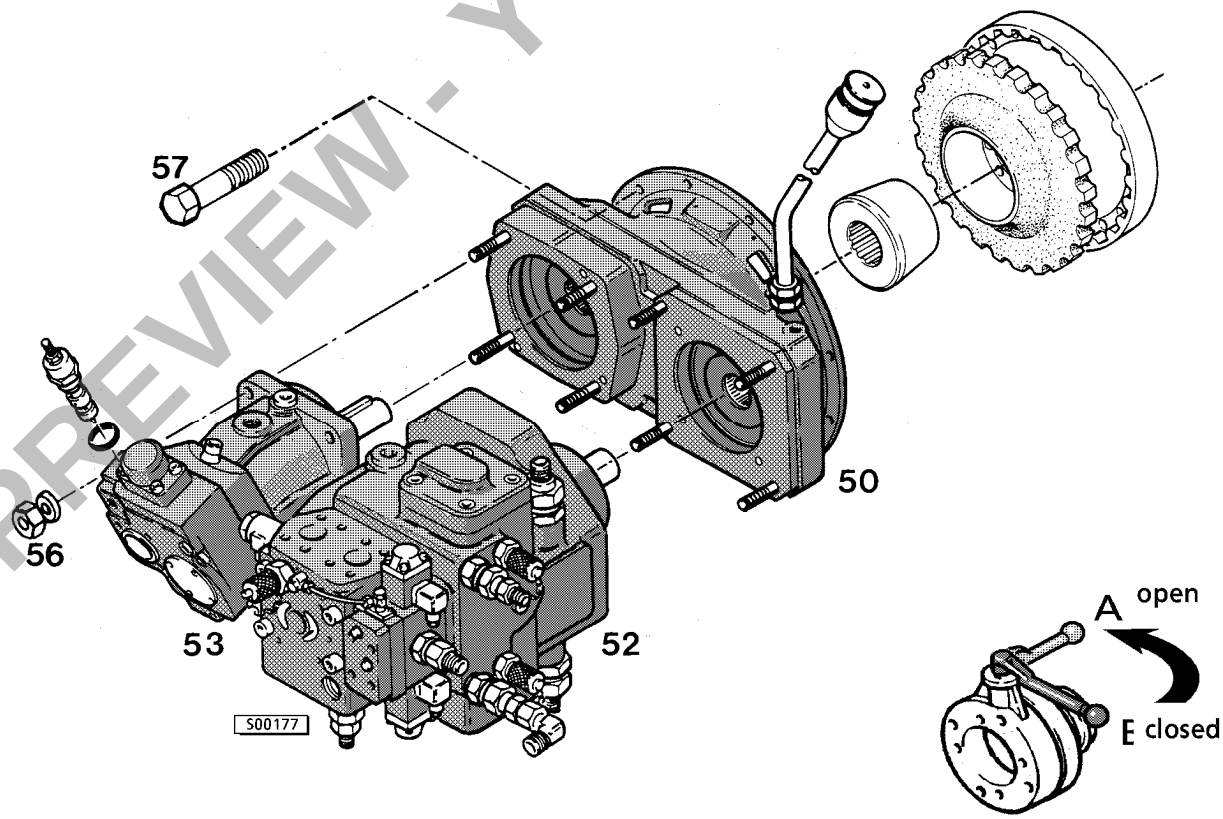
1.3 Remove Allen head screws 57 and remove complete gear 50 from intermediate flange 54. Remove half the coupling from the gear drive shaft.

2. Installation of Pump Distributor Gear

Install the pump distributor gear in reverse order.

Note:

When installing pumps 52/53 on the gear, be sure the O-rings 66 and 69 are seated correctly. Be sure that the shut off valve to the hydraulic tank ***is open*** before using the pumps 52/53.



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MAINTENANCE AND INSPECTION SCHEDULE L 551 – 274 / 101

CUSTOMER: ..... Machine Type: ..... S/N ..... Hrs. ..... Date: .....

Maintenance / Inspection: at delivery	every 8-10	every 10-50	every 250	at 500,1500,...	at 1000,3000,...	at 2000,4000,...	WORK TO BE PREFORMED	Adjustment Value/ Qty.	See manual
							LIEBHERR DIESEL ENGINE		
○	○	○	○	○	○	○	Engine oil level and pressure - check		OM
○	○	○	○	○	○	○	Coolant level - check (also check antifreeze)		OM
		○	○	○	○	○	Precleaner on air filter - check / empty if necessary		OM
		○	○	○	○	○	Water separator at fuel filter - check / empty if necessary		OM
				○	○	○	Fuel filter - check / clean if necessary		OM
		□		○	○	○	Engine oil - change **Important: note** [1]	23.0 l	OM
		□		○	○	○	Lube oil filter (2 ea.) - replace		OM / SM
				○	○	○	Tension and condition of V-belt - check		OM / SM
				○	○	○	Engine and cooler for contamination - check / clean		OM
○				○	○	○	Oil-, cooling and fuel system for leaks - check		OM / SM
○				○	○	○	Intake and exhaust system for mounting tightness /leaks - check		OM / SM
				○	○	○	All screws and nuts - especially on oil pan and engine mounting brackets - check for tightness		OM / SM
				○	○	○	Valve play – cold intake / exhaust - check / adjust	0.20 / 0.25	SM
				○	○	○	RPM - check / adjust	2100 ± 50	SM
				○	○	○	Turbocharger hose - check (replace – every 3000 hrs.)		OM / SM
					○	○	Fuel tank contamination - drain		OM
					○	○	Gear on flywheel - grease		SM
					○	○	Flame glow system - check (before start of cold season)		SM
					○	○	Fuel filter cartridge 1. Stage - replace		OM
						○	Fuel Filter cartridge 2. Stage - replace		OM
							Air filter elements - replace / as necessary - at least one a year		OM
							Oil separator - replace / every 2 years		SM
							Coolant with antifreeze - change [1] / every 2 years	45.0 l	OM / SM
							Injector nozzles - check / adjust – as necessary		SM
							TRAVEL and WORKING HYDRAULIC SYSTEM		
○	○	○	○	○	○	○	Oil level in hydraulic tank - check		OM
○	□		○	○	○	○	Magnetic rod - clean / up to 250 hrs. daily		OM
				○	○	○	Return filter element - replace		OM
				○	○	○	Suction filter element – Replenishing circuit - replace		OM
○				○	○	○	Working and travel hydraulic system - check for function and leaks		OM / SM
○				○	○	○	Hose routing - check for damage		OM
				○	○	○	Hydraulic tank - contamination - drain at least ever 6 months		OM
				○	○	○	Oil cooler for contamination - check / clean		OM
				□	○	○	All hydraulic pressures (Adjustment Checklist) - check / adjust		SM
				○	○	○	Mounting and fittings - check for mounting tightness		OM / SM
					○	○	Bleeder filter on the hydraulik tank - replace		OM / SM
						○	Oil in Hydr.System - change [1] (fill via return filter)	200.0 l	OM
○				○	○	○	Proper use of inching pedal - instruct the operator		OM
							SPLITTERBOX		
○	○	○	○	○	○	○	Oil level and leaks - check		OM
				□	○	○	Gear oil - change [1]	2.5 l	OM
				○	○	○	Mounting and fittings - check for tightness		OM

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GENERAL				
Basic weight		kg	20900	
Total length with bucket		mm	8075	
Width over tires		mm	2890	
Overall height (with 23.5 - 25 tires)		mm	3420	
Ground Clearance (with 23.5 - 25 tires)		mm	480	
Wheel base		mm	3300	
Track gauge		mm	2230	
Turning radius		mm	6680	
Max. dumping height at 45°		mm	3100	
Traction		kg	17600	
Max. travel speeds	1st gear, 2nd gear, 3rd gear	max. km/h	7 / 17 / 39	
DIESEL ENGINE				
Type			Liebherr D 906 TI	Liebherr D 916 TI (from 501)
Output		kW / PS	169 / 230	173 / 235 (from 501)
Nominal Speed		RPM	2000	
High idle		RPM	2100	
Max. Torque		Nm	895 at 1400 min $^{-1}$	940 at 1400 min $^{-1}$(from 501)
Oil quantity		l	23	
Displacement		cm^3	8400	9161 (from 501)
Bore / Stroke		mm	115 / 135	120 / 135 (from 501)
Firing order			1-5-3-6-2-4	
Valve clearance cold - Inlet/Exhaust		mm	0,25 / 0,20	
Compression pressure		bar	18 - 26	19 - 27 (from 501)
Fuel delivery begin		°	$26^{\pm 1}$	$22^{\pm 1}$ (from 501)
Injection pressure		bar	225	
Fuel tank capacity		l	320	
Permissible inclination left / right			45° / 45°	
Uphill / Downhill travel			45° / 45°	
GEARBOX				
Gear type		Type	PVG 250 B 262	
Reduction ratio - Travel/ Working hydraulic			1,113 / 1,113	
Oil quantity		l	2,5	
Oil viscosity / quality			SAE 90 LS	
Oil change intervals		Hrs.	1000	
TRAVEL HYDRAULIC				
Variable displacement pump		Type	A4V 250 DA	
Pump power		KW	152	
Max pump flow		l/min	437	
Pump RPM (at engine RPM)		RPM	1800	
Max. high pressure (sec. valve setting)		bar	460	
Pressure cut off		bar	430	
Replenishing pump flow (theoretical value)		l/min	105	
Replenishing and control pressure - max.		bar	22	26 (from Sr. No.200)
Control pressure at regulation begin		bar	7	
Suction filter - change intervals		Hrs.	500	
Variable displacement motor		Type	A6VM 250 DA	
Max. displacement		cm^3/U	250	
Max. torque		Nm	1430	

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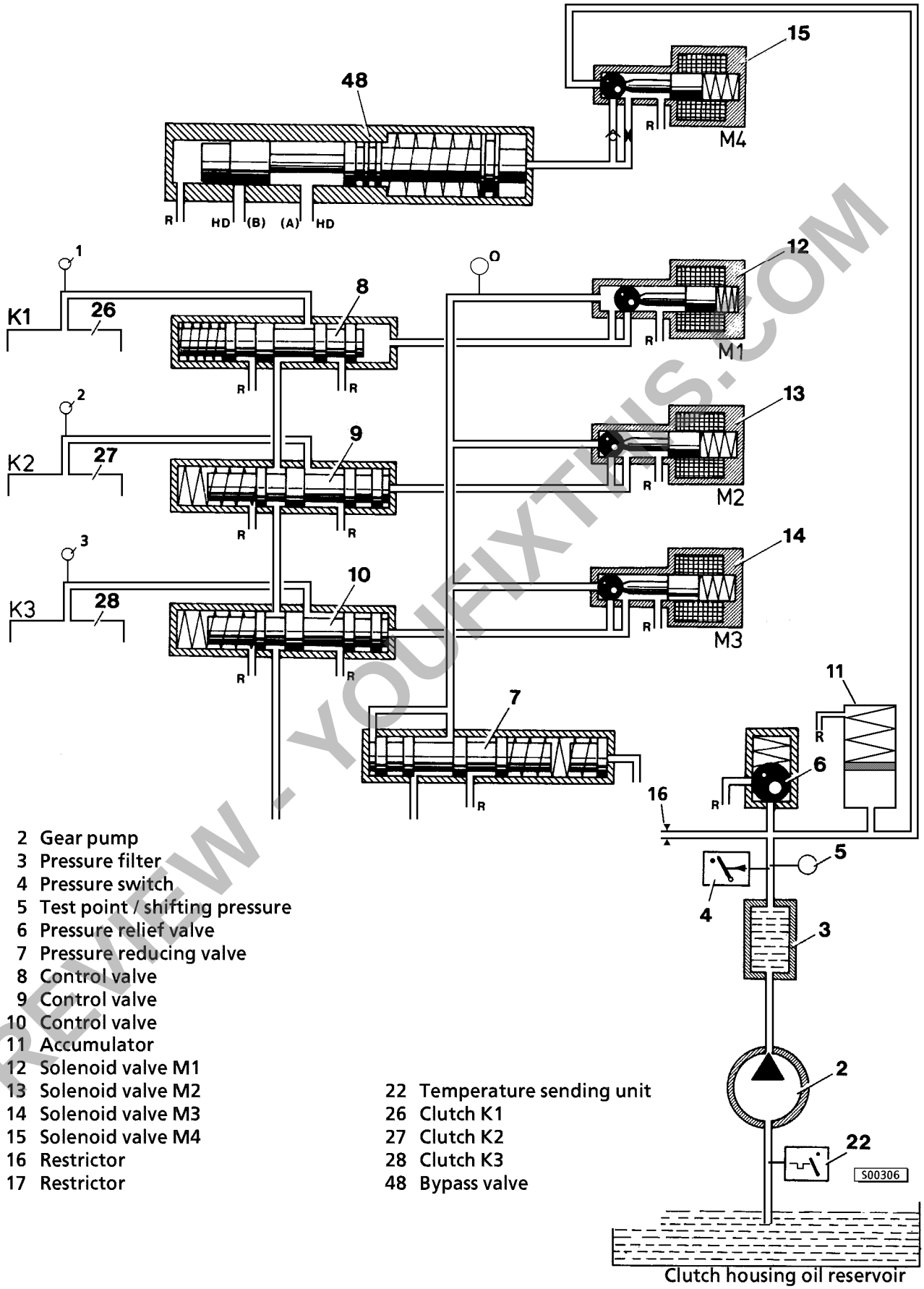
TROUBLESHOOTING TURBOCHARGED ENGINES (WITHOUT REGULATING VALVE)

Problem	Cause	Remedy
1. Lack of power, boost pressure too low	1.0 Air filter system dirty. Lines and connections damaged and/or leaking	Examine filter system, service or replace filter, if necessary. Check and repair or replace lines and connection, tighten clamps.
	1.1 Flow resistance too high in the exhaust system and/or leakages upstream of turbine	Check exhaust brake, pipes, gaskets and mufflers, repair if necessary.
	1.2 Injection unit and/or fuel system defective	Check adjustment settings / function, correct if necessary.
	1.3 Compression too low	Check valves, cylinders and pistons, service or replace defective parts, if necessary.
	1.4 Compressor dirty	Clean unit and replace, if necessary.
	1.5 Turbocharger defective, wheels rubbing on housing	Examine turbocharger, repair or replace if necessary.
2. Power and/or boost pressure too high	2.0 Fuel injector defective	Check adjustment settings / function and correct, if necesary.
3. Black exhaust smoke	See points 1.0, 1.3, 1.4, 1.5, 2.0	
4. Blue exhaust smoke	4.0 Worn valve guides and/or piston rings	Measure exhaust volume at crankcase outlet, overhaul engine, if necessary.
	4.1 Compressor-side and/or turbine-side sealing in the turbocharger defective	Examine turbocharger, repair or replace it, as necessary.
	4.2 Turbocharger oil return line clogged and/or damaged	Clean oil return line, repair, if necessary.
	4.3 See 1.0	
5. Leakage at turbocharger	5.0 Oil feed line and/or oil return line loose and leaking	Clean turbocharger, check and repair leakages.
	5.1 Leakage at connection between compressor and bearing housing	Repair or replace turbocharger.

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Oil schematic / Gear shifting



2 Gear pump
3 Pressure filter
4 Pressure switch
5 Test point / shifting pressure
6 Pressure relief valve
7 Pressure reducing valve
8 Control valve
9 Control valve
10 Control valve
11 Accumulator
12 Solenoid valve M1
13 Solenoid valve M2
14 Solenoid valve M3
15 Solenoid valve M4
16 Restrictor
17 Restrictor

22 Temperature sending unit
26 Clutch K1
27 Clutch K2
28 Clutch K3
48 Bypass valve

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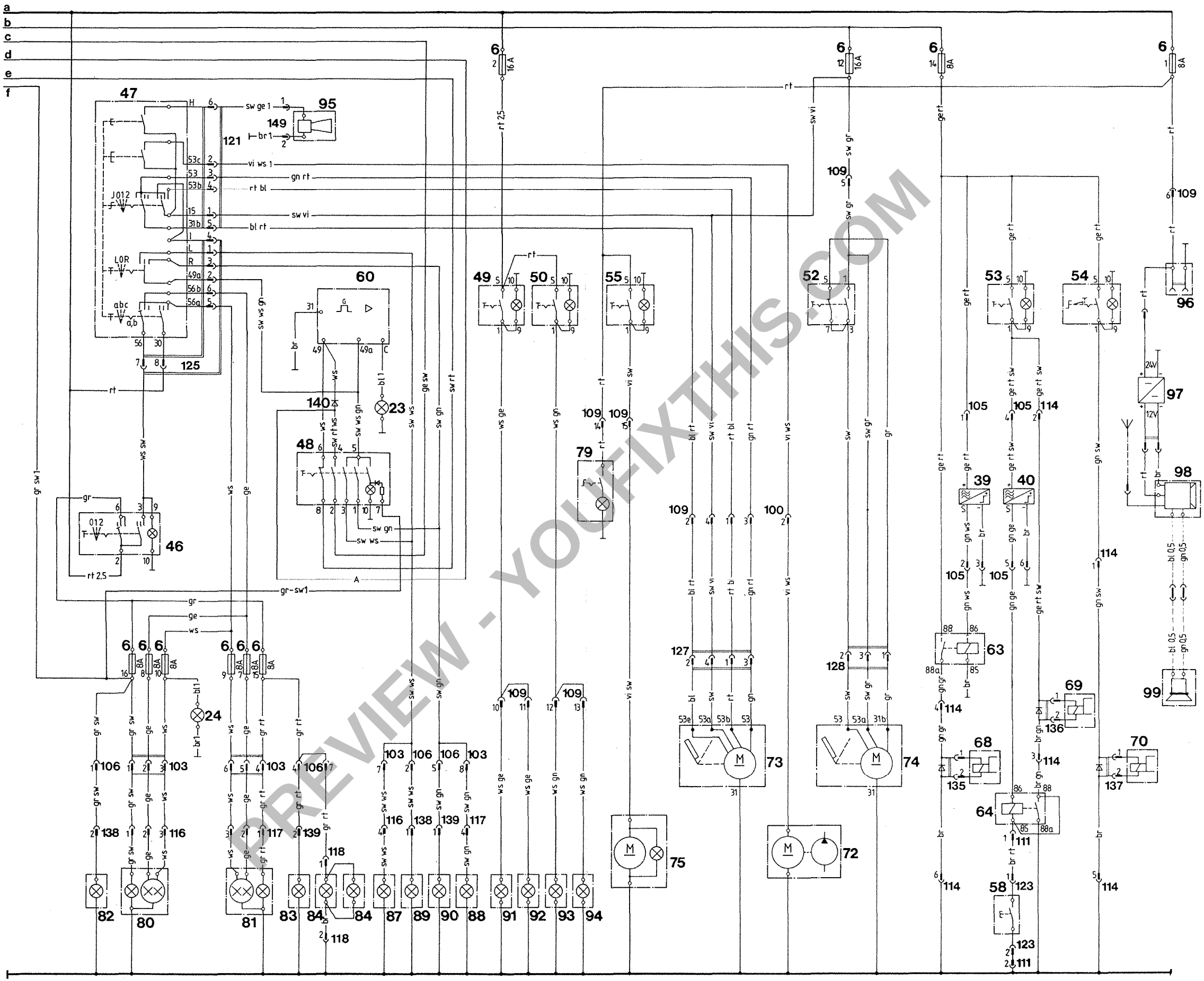
Datum / Edition / Date
07.93

Benennung / Description / Dénomination

Powershift Transmission
3 AVG 310

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Ab / From / A partir de: 101
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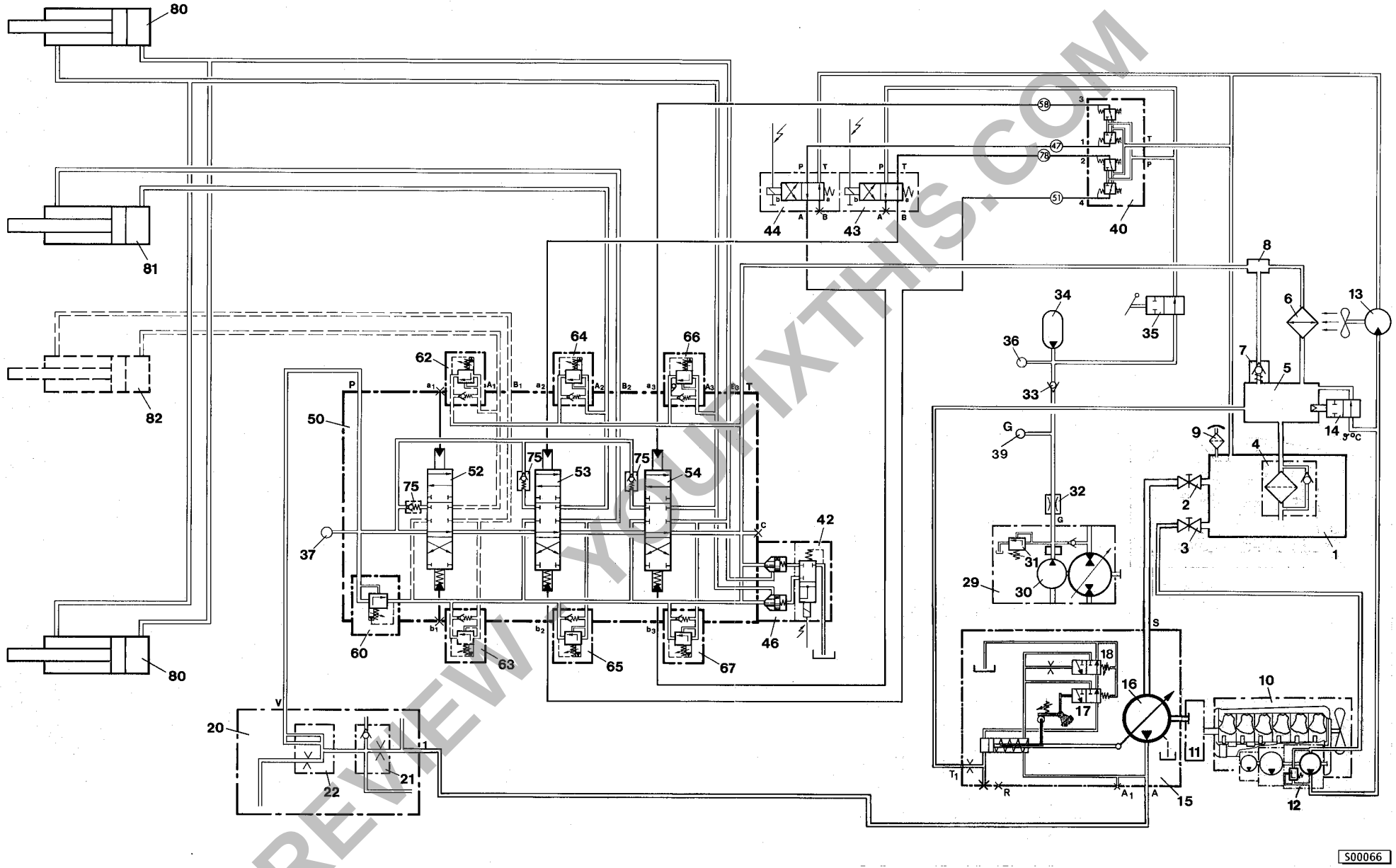


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LIEBHERR

Datum / Edition / Date

12.89

Benennung / Description / Dénomination

Arbeitshydraulik - Anlage
Working Hydraulic System
Hydraulique de travail

Typ
Model
Type
L 551

Ab
From
A partir de

Blatt
Page
Feuille
11.15.09

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Tightening torques for screws with fine metric thread

Screw Size	Preload values F_M based on Grades in N			Tightening torques M_A based on Grades in Nm			Wrench size for Hex head-screw		Wrench size for Socket head-screw	
	8.8	10.9	12.9	8.8	10.9	12.9	mm	Inch	mm	Inch
M 8 × 1	18 100	26 500	31 000	27	40	47	13	1/2	6	---
M 9 × 1	23 800	35 000	41 000	40	58	68	---	---	---	---
M 10 × 1	30 500	44 500	52 000	57	84	98	17	11/16	8	---
M 10 × 1,25	28 500	41 500	48 500	54	79	93	17	11/16	8	---
M 12 × 1,25	43 000	64 000	74 000	96	140	165	19	3/4	10	---
M 12 × 1,5	40 500	60 000	70 000	92	135	155	19	3/4	10	---
M 14 × 1,5	58 000	86 000	100 000	150	220	260	22	7/8	12	---
M 16 × 1,5	79 000	116 000	136 000	230	340	390	24	61/64	14	9/16
M 18 × 1,5	106 000	152 000	177 000	350	490	580	27	1-1/16	14	9/16
M 18 × 2	98 000	140 000	164 000	330	460	540	27	1-1/16	14	9/16
M 20 × 1,5	134 000	191 000	224 000	480	690	800	30	1-3/16	17	43/64
M 22 × 1,5	166 000	236 000	275 000	640	920	1 070	32	1-9/92	17	43/64
M 24 × 1,5	200 000	285 000	333 000	830	1 180	1 380	36	1-7/16	19	3/4
M 24 × 2	189 000	270 000	315 000	810	1 160	1 350	36	1-7/16	19	3/4
M 27 × 1,5	258 000	367 000	430 000	1 200	1 710	2 000	41	1-5/8	19	3/4
M 27 × 2	245 000	350 000	410 000	1 190	1 700	2 000	41	1-5/8	19	3/4
M 30 × 1,5	323 000	460 000	538 000	1 670	2 370	2 780	46	1-13/16	22	7/8
M 30 × 2	309 000	440 000	515 000	1 610	2 300	2 690	46	1-13/16	22	7/8
M 33 × 1,5	396 000	563 000	659 000	2 220	3 170	3 710	50	2	24	61/64
M 33 × 2	380 000	540 000	630 000	2 250	3 200	3 700	50	2	24	61/64
M 36 × 1,5	475 000	677 000	792 000	2 910	4 140	4 850	55	2-3/16	27	1-1/16
M 36 × 3	425 000	610 000	710 000	2 800	3 900	4 600	55	2-3/16	27	1-1/16
M 39 × 1,5	562 000	801 000	937 000	3 720	5 300	6 200	60	2-3/8	27	1-1/16
M 39 × 3	510 000	720 000	850 000	3 600	5 100	5 900	60	2-3/8	27	1-1/16

Note: Preload forces and tightening torques are based on lightly lubricated screws and nuts (corresponds to medium friction $\mu_G = 0{,}14$). Nm = x 0.7375 = ft. lbs.

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Adjustment Procedure

Checking and adjusting the travel hydraulics

1. IMPORTANT:

1.1 Please note that during the warranty period only authorized LIEBHERR representatives are permitted to work on the wheel loader valves. This includes adjustment.

1.2 The valves must be checked and adjusted with the hydraulic oil at operating temperature (approx. 70°C = 150° F).

1.3. Use only glycerine filled pressure gauges with an accuracy of ± 1%.

1.4 If specified values cannot be reached, the cause must be determined according to the troubleshooting chart, and the defect must be repaired.

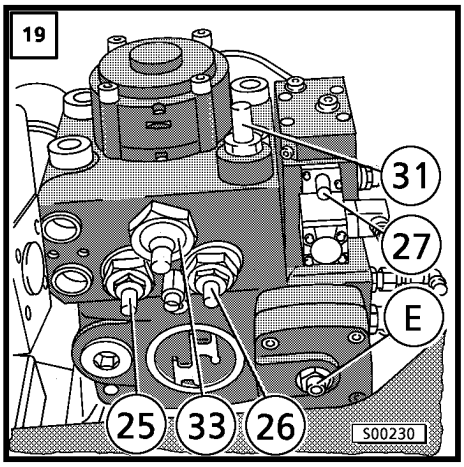
1.5 The inching device (inching valve 37 with pedal - see fig.55) must be in the zero position when checking the valves listed below. To see if the device is in fact in the zero position, disconnect the return oil hose at valve 37. The hose can also be disconnected at the T-fitting located at the valve block for the steering system. With the inching device in the zero position, no oil should flow from the return oil hose.

1.6 After the valves have been adjusted, replace the safety caps. This will prevent unauthorized personnel from attempting to adjust the valves.

2. Valve arrangement - see figure 19

Valve **25**	Crossover relief connection A (reverse)
Valve **26**	Crossover relief connection B (forward)
Valve **27**	Pressure cutoff
Valve **31**	Replenishing pressure relief
Valve **33**	Control pressure regulation

19



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Maintenance / Inspection: at delivery	every 8-10	every 10-50	every 250	at 500,1500,...	at 1000,3000,...	at 2000,4000,...	WORK TO BE PERFORMED	Adjustment Value/ Qty.	See manual
							ELECTRICAL SYSTEM		
○	○	○	○	○	○	○	Indicator lights and head lights - check		OM / SM
○				○	○	○	Batteries – acid level, battery terminals - check		OM
○					○	○	Function of system and components - check		OM / SM
							HEATER / VENTILATION		
○				○	○	○	System for function and leaks - check		OM / SM
							Fresh air filter - replace, if necessary		OM
							POWERSHIFT TRANSMISSION / SPLITTERBOX		
○	○	○	○	○	○	○	Oil level top / bottom - check		OM / SM
○				○	○	○	Seals/ fittings - check for leaks		OM / SM
○					○	○	Function of control and shifting pressure - check		SM
					○	○	Mounting of gear, oil motor and gear shafts - check		SM
○		○	○	○	○	○	Lube points drive shaft - check / grease		OM
				○	○	○	Filter insert - replace		OM / SM
				□	○	○	Gear oil top / bottom - change [1]	16.0 l/5.5 l	OM / SM
							AXLES		
○				○	○	○	Engine oil level and leaks - check		OM / SM
					○	○	Mounting of axles - check		OM / SM
○		□	□	○	○	○	Mounting of wheel nuts (□ check also at 100 hours) [2]	650 Nm	OM / SM
				□	○	○	Gear oil / Differential – front - change [1]	24.0 l	OM
				□	○	○	Gear oil / Differential – rear - change [1]	21.0 l	OM
				□	○	○	Gear oil / wheel hubs – front / rear - change [1]	9.0 l/5.0 l	OM
							STEERING		
○	○	○	○	○	○	○	Function and leaks - check		SM
○		○	○	○	○	○	Bearing and lube points of steering cylinder - check / grease		OM / SM
○			○	○	○	○	Flow indicator and emergency steering pump - check f. function		OM / SM
					○	○	Mounting of components and steering cylinder - check		SM
							BRAKE		
○	○	○	○	○	○	○	Operating and parking brake - check for function		OM / SM
○				○	○	○	Leaks in system - check		SM
○				○	○	○	Control switch for function - check		OM / SM
					○	○	Accumulator, brake and release pressure - check		OM / SM
							MAIN FRAME - CAB		
○		○	○	○	○	○	Bearing and lube points / artic. & oscillating axle - check / grease		OM
					○	○	Door, window cover hinges / locks - check		
					○	○	Front and rear section - check for cracks		
							LIFT ARMS - ATTACHMENTS		
○		○	○	○	○	○	Bearing and lube points - check / grease		OM
○				○	○	○	Bucket return / lift limit / float position - check for function		OM / SM
				○	○	○	Lift arms and bucket stops - check		OM / SM
					○	○	Lift arms and bucket for cracks - check		
○				○	○	○	Proper application of attachments - inform the operator		OM
							GENERAL		
○							Have the operator lubricate the machine, explain and check for proper operation and maintenance.		O
	○						Daily maintenance by the operator includes visual inspection for leaks and defects: • Check engine, hydraulic system, gear and axles for leaks.		

1) For lubrication and operating fluid specifications, see " Lubricants and Operating Fluids "
2) In addition, maintenance intervals marked with □ must also be completed any time the wheels are changed.

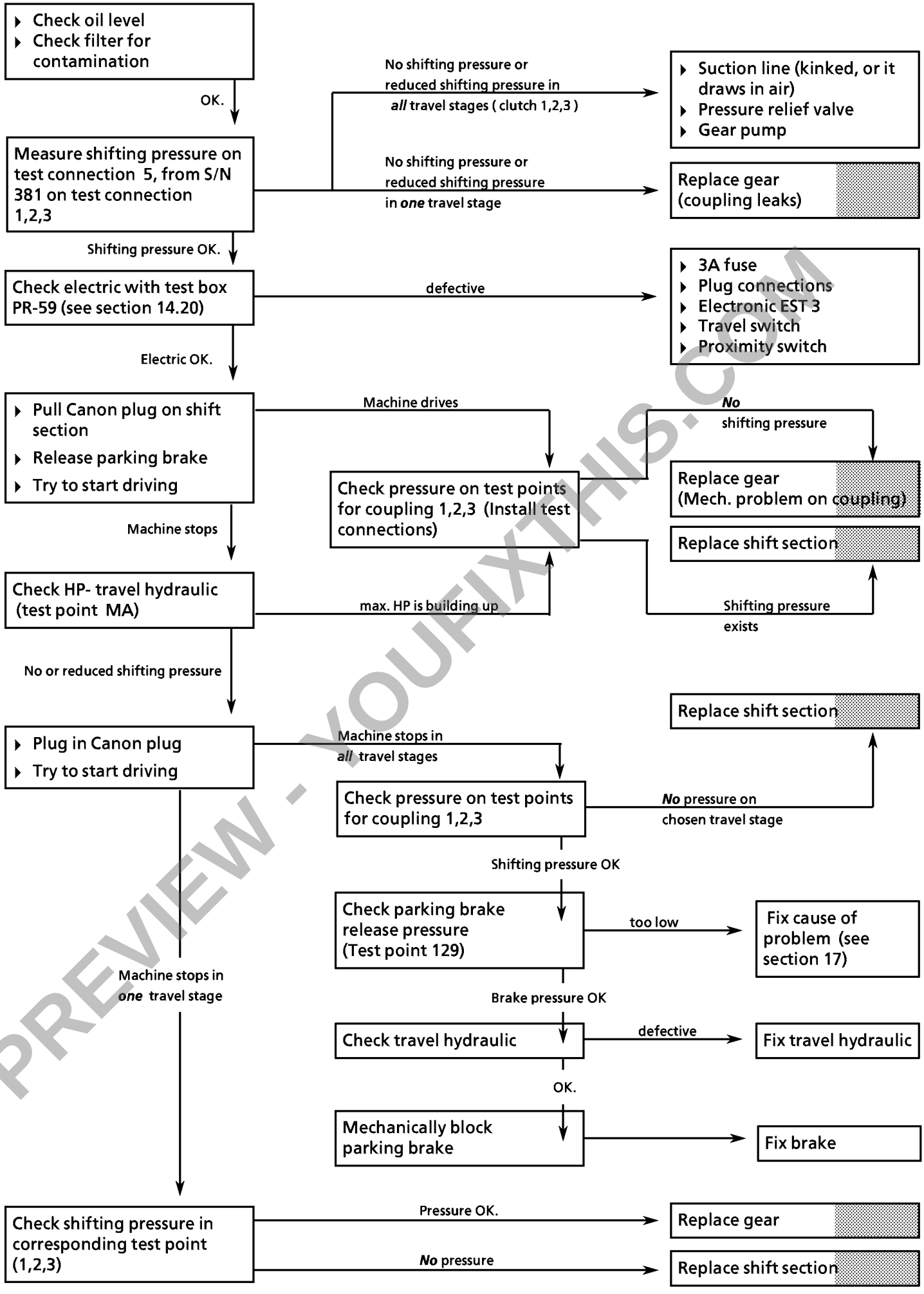
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WORKING HYDRAULIC			
Tank capacity	ltr.	200	
Hydr. oil change intervals	Hrs.	2000	
Return filter change intervals	Hrs.	500	
Variable displacement pump	Type	A7VO 160 LRD	
Pump power	KW	85	
Max. flow	l / min	256	275 (from 254)
Pressure cut off	bar	270	
Pimary pressure relief	bar	290	
Secondary relief valve setting (hoist/tilt cylinder)	bar	310	
Max. servo control pressure	bar	22	26 (from Sr. Nr. 200)
Control valve block	Type	M1 - 22	
Diameter - hoist cylinder	mm	150 / 80	160 / 80 (from 254)
Diameter - tilt cylinder	mm	170 / 90	
Max. flow from gear pump / cooling	cm^3 / U	8	
Displacement of oil motor / coolant fan	cm^3 / U	8	
POWERSHIFT TRANSMISSION			
Gear	Type	3 AVG 310	
Oil quantity top /bottom	l	16 / 5,5	
Oil viscosity		SAE 20 W 20	
Oil change intervals	Hrs.	1000	
Shift pressure	bar	16	
Servo pressure	bar	5	
Gear pump / Gear shift	l / min	28	
Pressure filter change intervals	Hrs.	500	
AXLES			
Axle type rear / front	Type	AP 411 / AP 417	
Oil quantity - Differential rear / front	ltr.	21 / 24	
Oil quantity - Wheel hub rear / front	ltr.	5 / 9	
Oil viscosity / Quality		SAE 90 LS	
Oil change intervals	Hrs.	1000	
Tires (standard)		23,5-25	
Tightening torque / wheel lugs	Nm	650	
Brakes		multiple wet disk brakes	
STEERING			
Valve block with flow divider	Type	ZF 7760	
Pilot flow	l / min	10	
Primary pressure relief setting	bar	180	
Servostat	Typ	ZF 8476	
Displacement	cm^3 / U	497	
Secondary pressure relief setting	bar	240	
Emergency steering pump	Typ	ZF 8607	
Emergency steering pump output	cm^3/U	32	
Steering cylinder - diameter piston	mm	100 / 50	
BRAKE			
Gear pump / Brake system	l / min	2,5	
Max operating pressure	bar	150	
Cut In / Cut off pressure	bar	120 / 150	
Max. Brake pressure, service brake	bar	65	

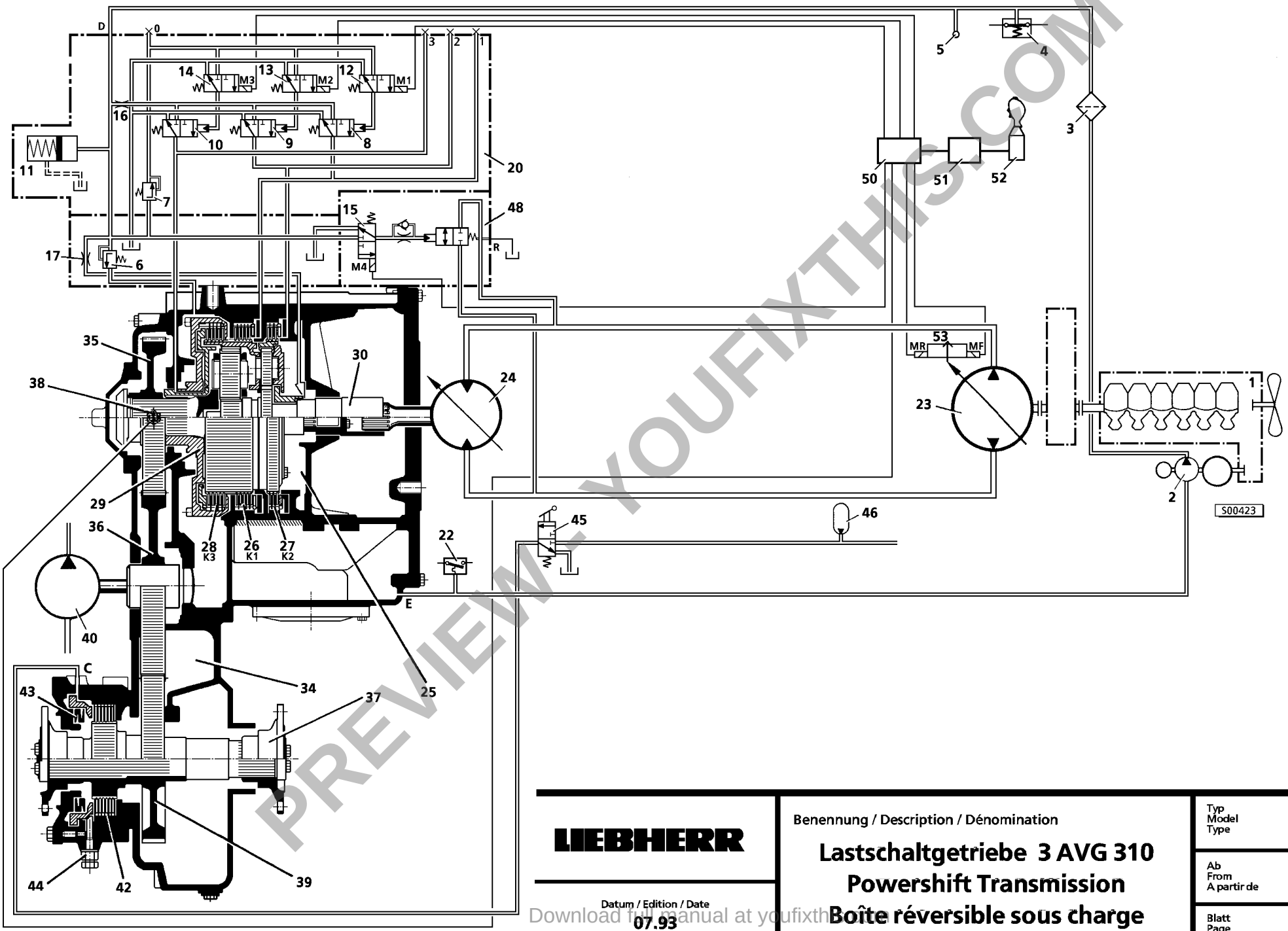
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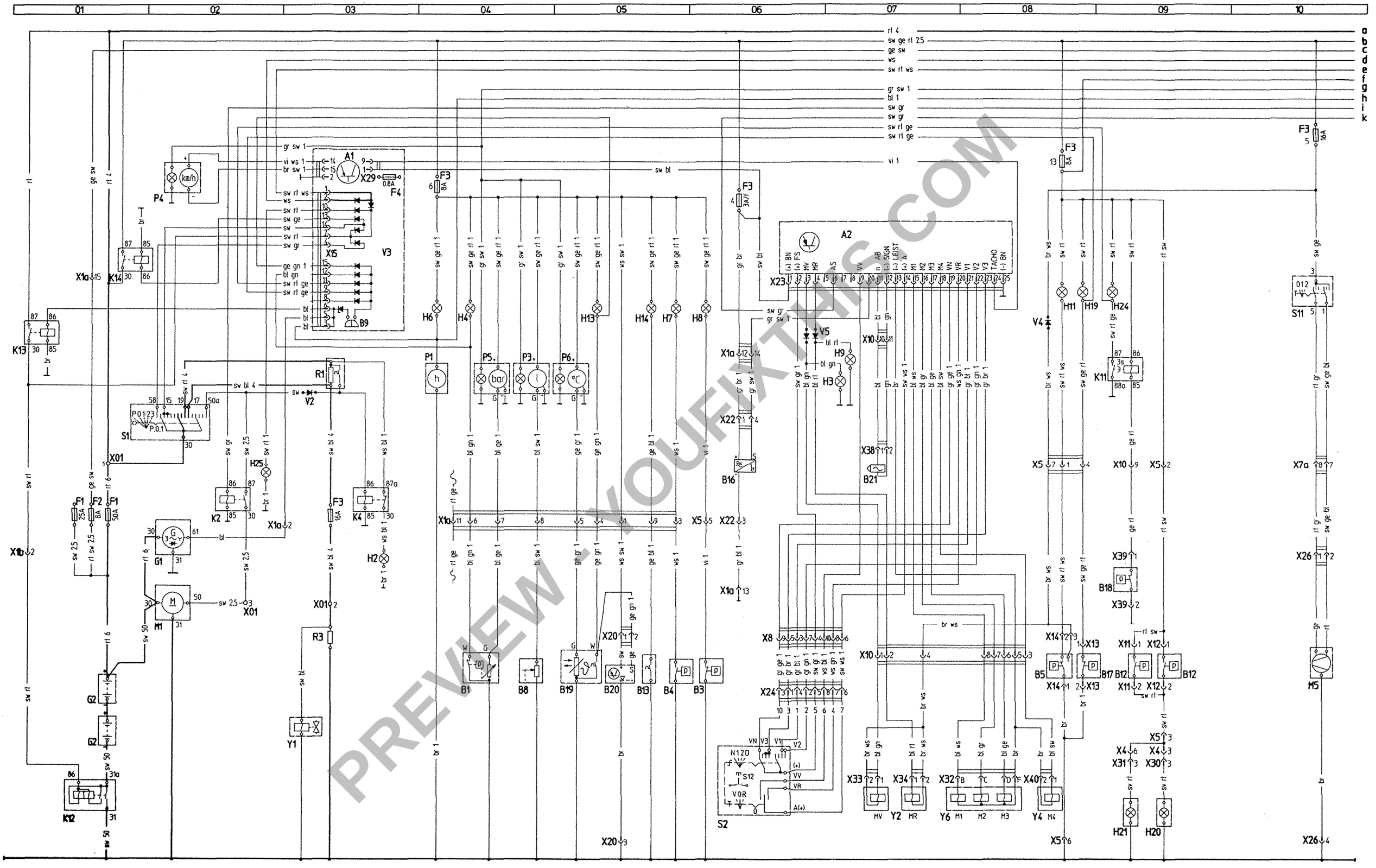
Datum / Edition / Date
07.93

Benennung / Description / Dénomination

Lastschaltgetriebe 3 AVG 310
Powershift Transmission
Boîte réversible sous charge

Typ / Model / Type	L 551
Ab / From / A partir de	101-380
Blatt / Page / Feuille	14.15.08

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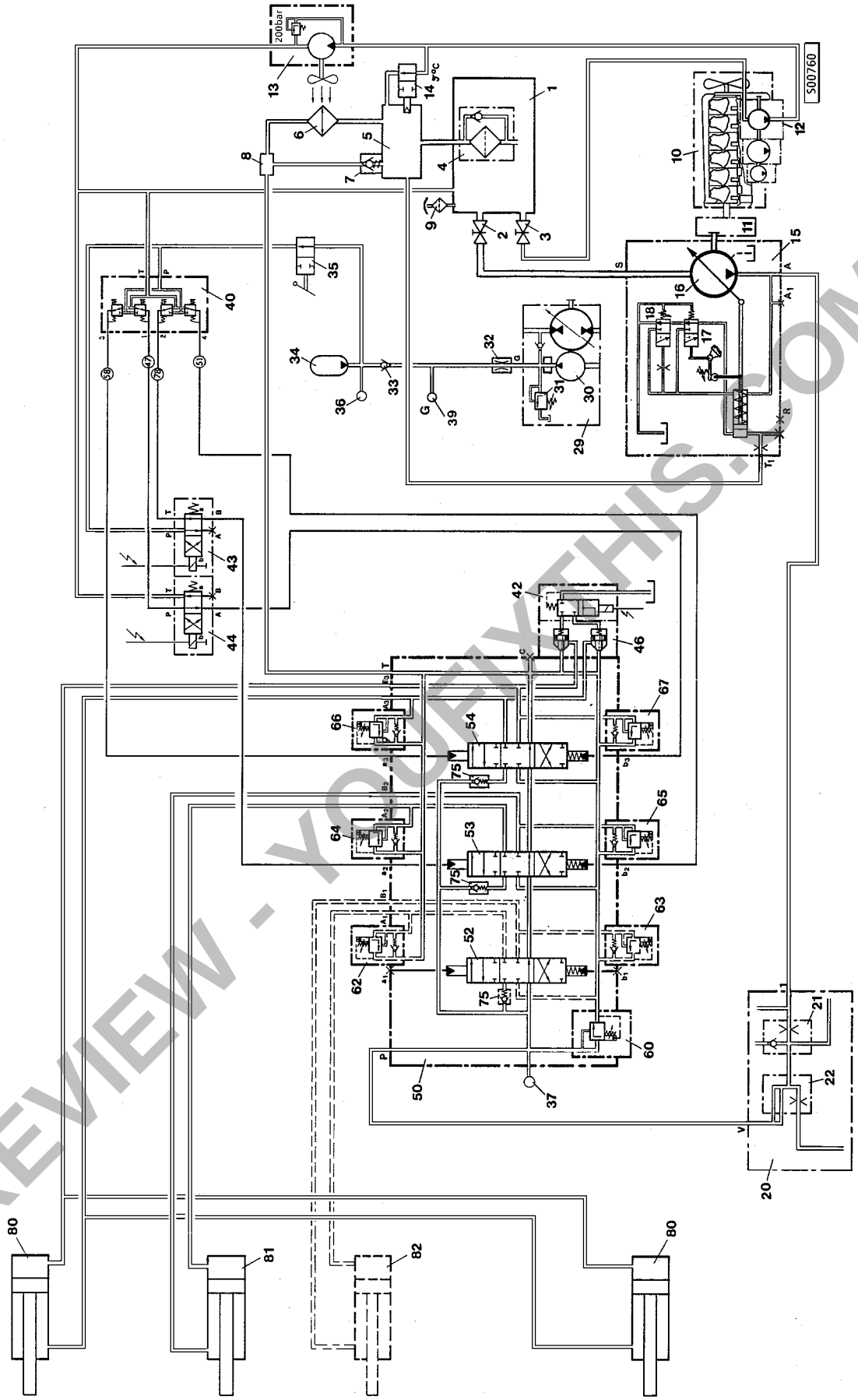
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Datum / Edition / Date

08.91

Benennung / Description / Dénomination

Working Hydraulic System

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Typ / Model / Type: L 551

Ab / From / A partir de: 487

Blatt / Page / Feuille: 11.15.21

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