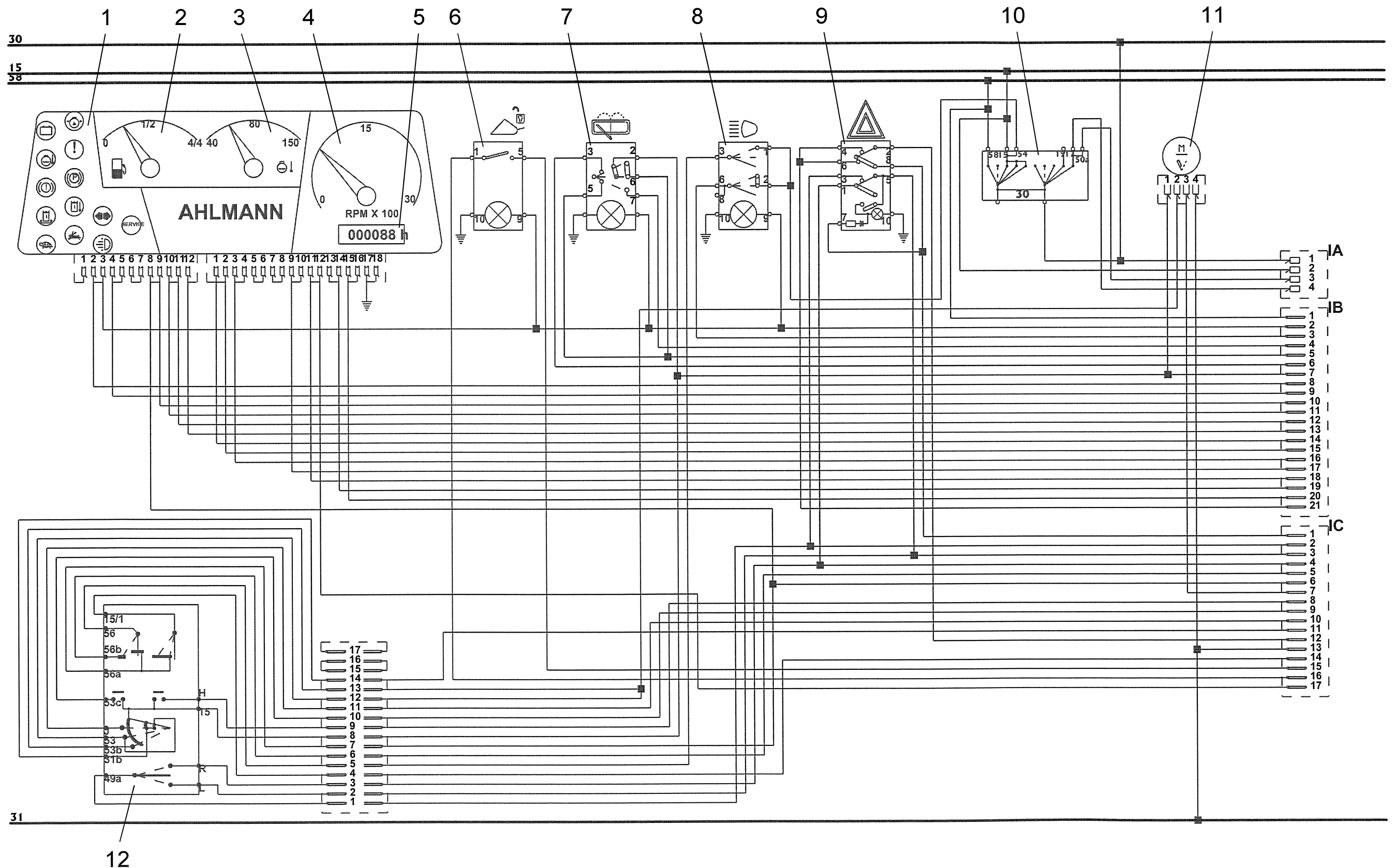


Diagrams

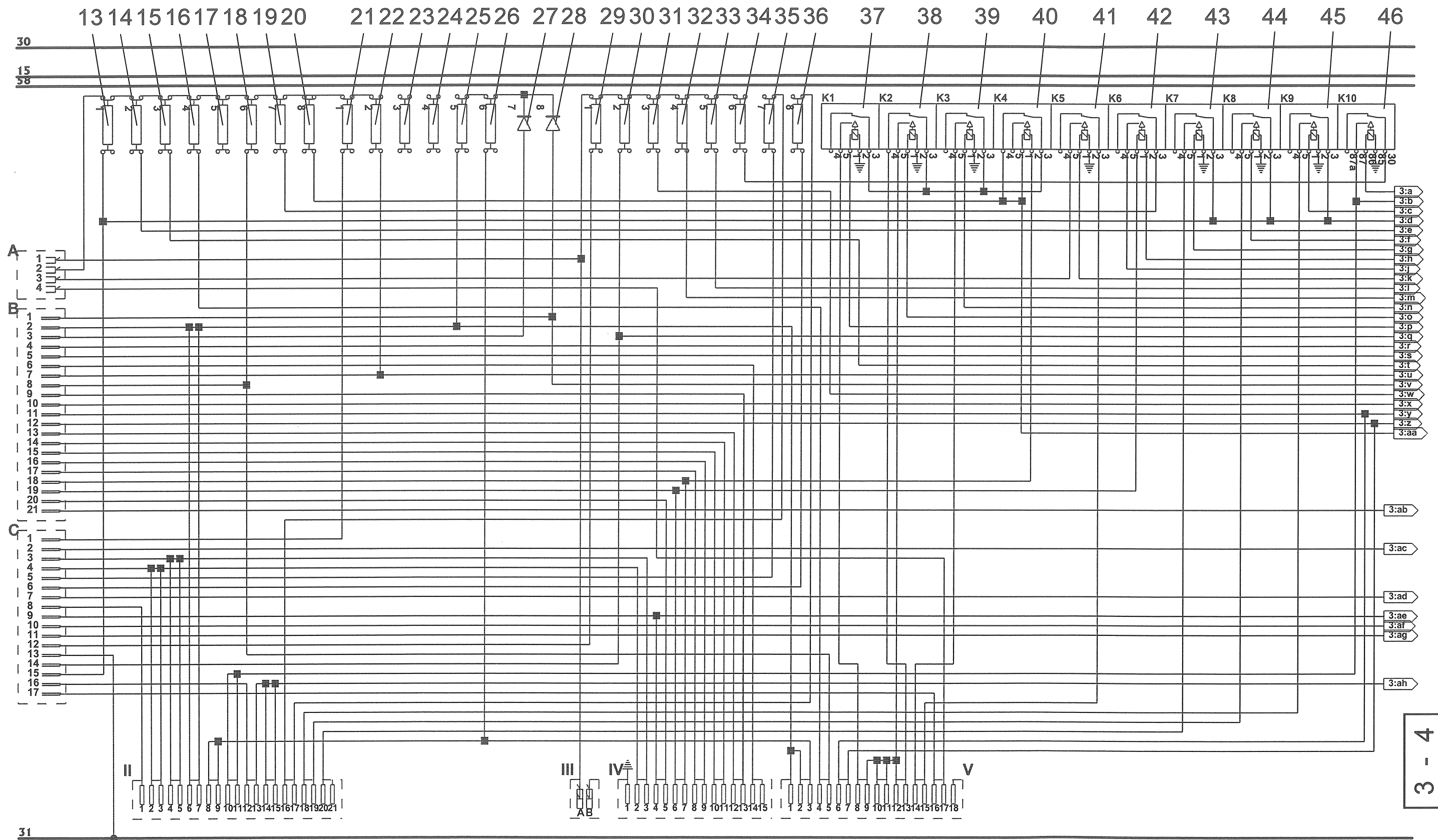
**10.1 - 06.2006 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/El-kopplingsschema/
Sähkökytkentäkaavio/Diagrama de conexiones eléctricas/Elektrisk koblingsskjema/El-oversigt/
Esquema de circuitos eléctricos/Schéma elektrického zapojení**



10.1 - 06.2006 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/El-kopplingsschema/
Sähkökytkentäkaavio/Diagrama de conexiones eléctricas/Elektrisk koblingsskjema/El-oversigt/
Esquema de circuitos eléctricos/Schéma elektrického zapojení

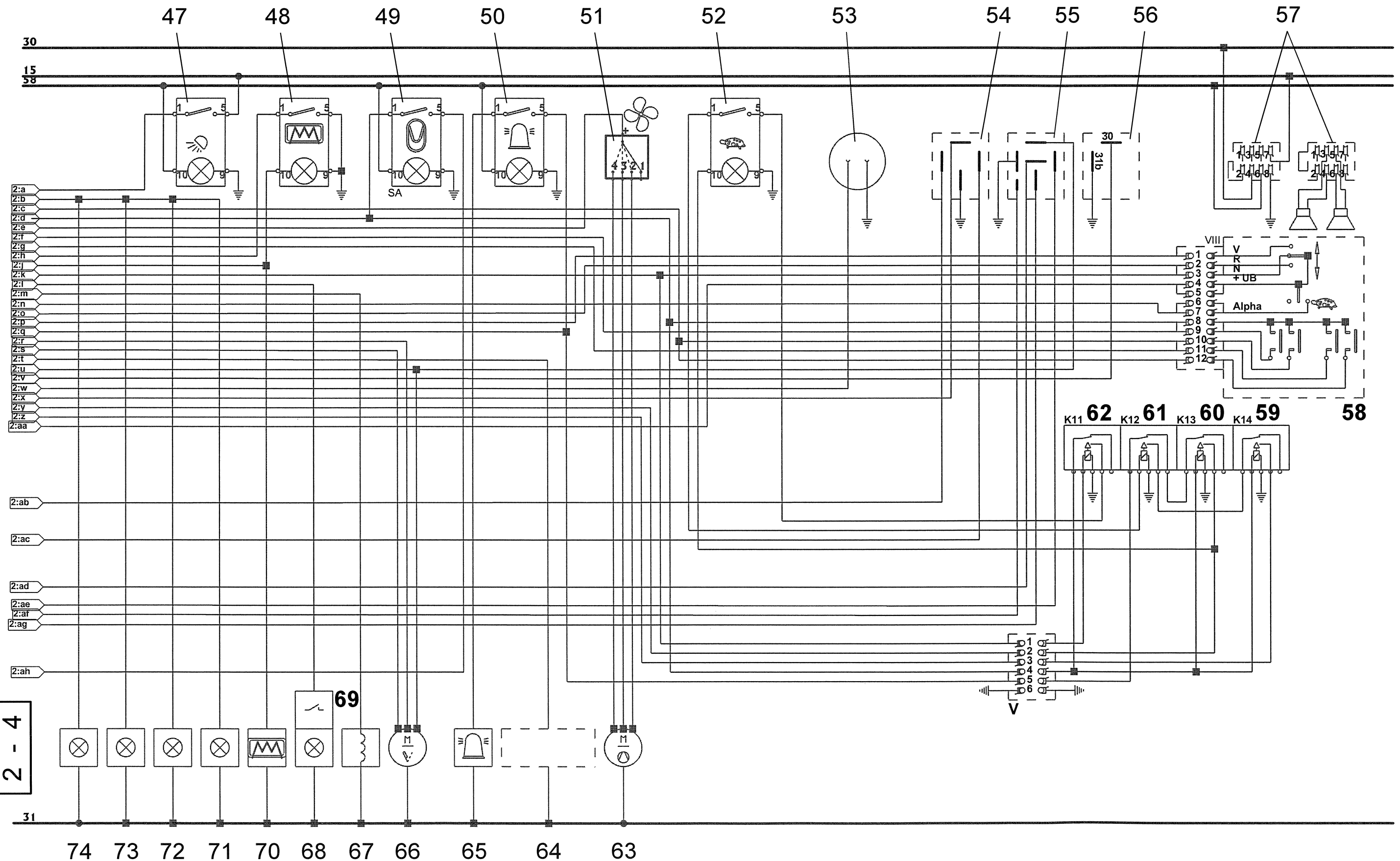
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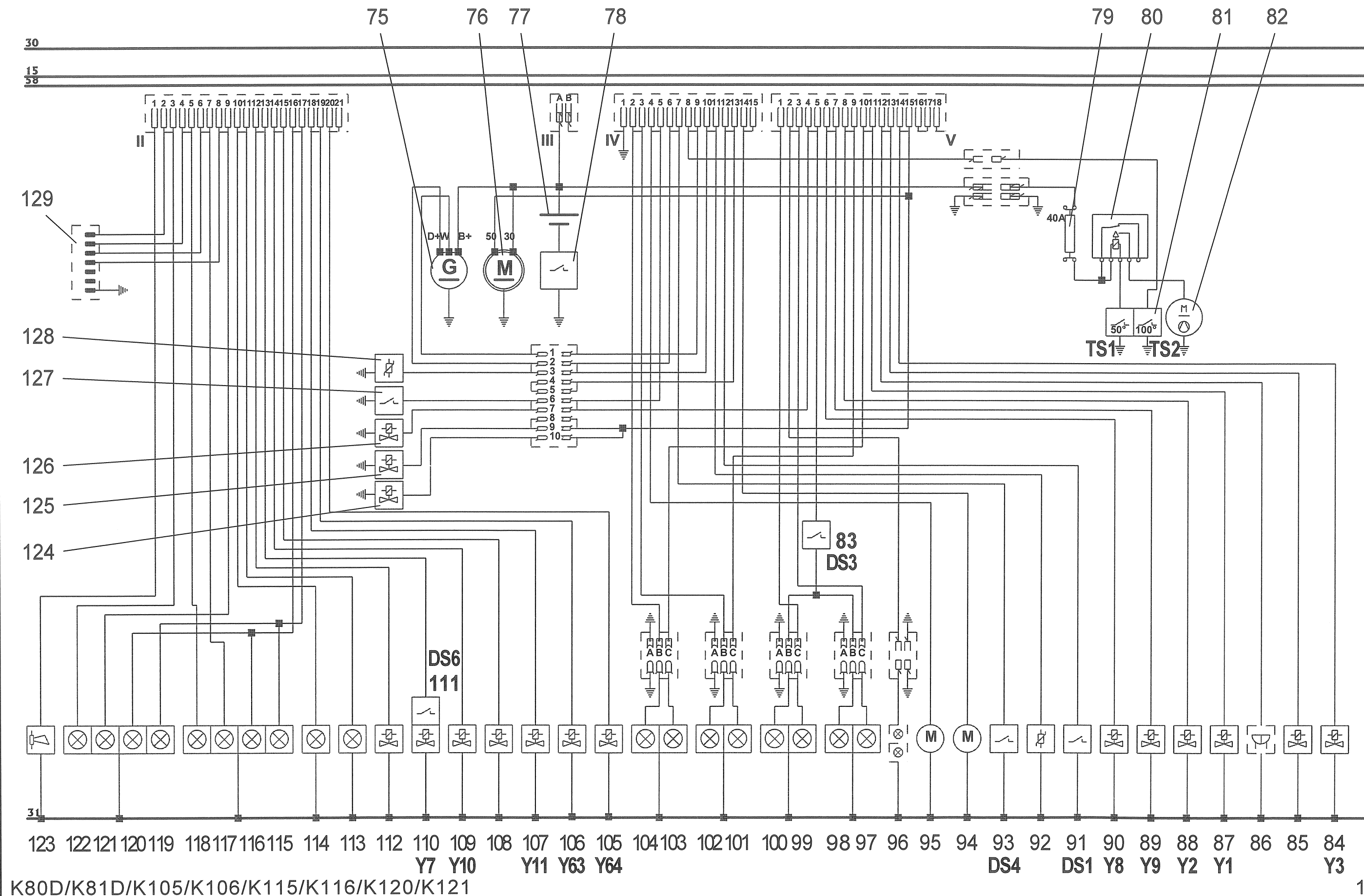
1 - 4



3 - 4

10.1 - 06.2006 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/El-kopplingsschema/
Sähkökytkentäkaavio/Diagrama de conexiones eléctricas/Elektrisk koblingsskjema/El-oversigt/
Esquema de circuitos eléctricos/Schéma elektrického zapojení





10.1 Electric wiring diagram**Item Designation**

01	Indicator lamp assembly
02	Fuel gauge
03	Engine oil temperature gauge
04	RPM meter
05	Operating hours meter
06	Actuator: Release of quick-change device (option)
07	Actuator: Rear window wiper/washer
08	Actuator: Road lights
09	Actuator: Hazard flasher
10	Start switch
11	Windshield wiper motor, front
12	Steering column switch

Item Designation

13	Fuse (chapter 4.5/A1)
14	Fuse (chapter 4.5/A2)
15	Fuse (chapter 4.5/A3) (SA)
16	Fuse (chapter 4.5/A4)
17	Sicherung (nicht belegt)
18	Fuse (chapter 4.5/A6)
19	Fuse (chapter 4.5/A7)
20	Fuse (chapter 4.5/A8)
21	Fuse (chapter 4.5/B1)
22	Fuse (chapter 4.5/B2)
23	Fuse (free)
24	Fuse (free)
25	Fuse (chapter 4.5/B5)
26	Fuse (chapter 4.5/B6)
27	Light indicator diode (chapter 4.5/B7)
28	Light indicator diode (chapter 4.5/B8)
29	Fuse (chapter 4.5/C1)
30	Fuse (chapter 4.5/C2)
31	Fuse (chapter 4.5/C3)
32	Fuse (chapter 4.5/C4)
33	Fuse (chapter 4.5/C5)
34	Fuse (chapter 4.5/C6)
35	Fuse (chapter 4.5/C7)
36	Fuse (chapter 4.5/C8)
37	Relay for power adaptation: forward
38	Relay for power adaptation: reverse
39	Relay Alpha max.
40	Traction drive cut-out relay
41	Starter interlock relay
42	Rear window heater relay
43	Relay for auxiliary hydraulics: Close bucket
44	Relay for auxiliary hydraulics: Open bucket
45	Relay for differential lock
46	Relay for working lights

Item Designation

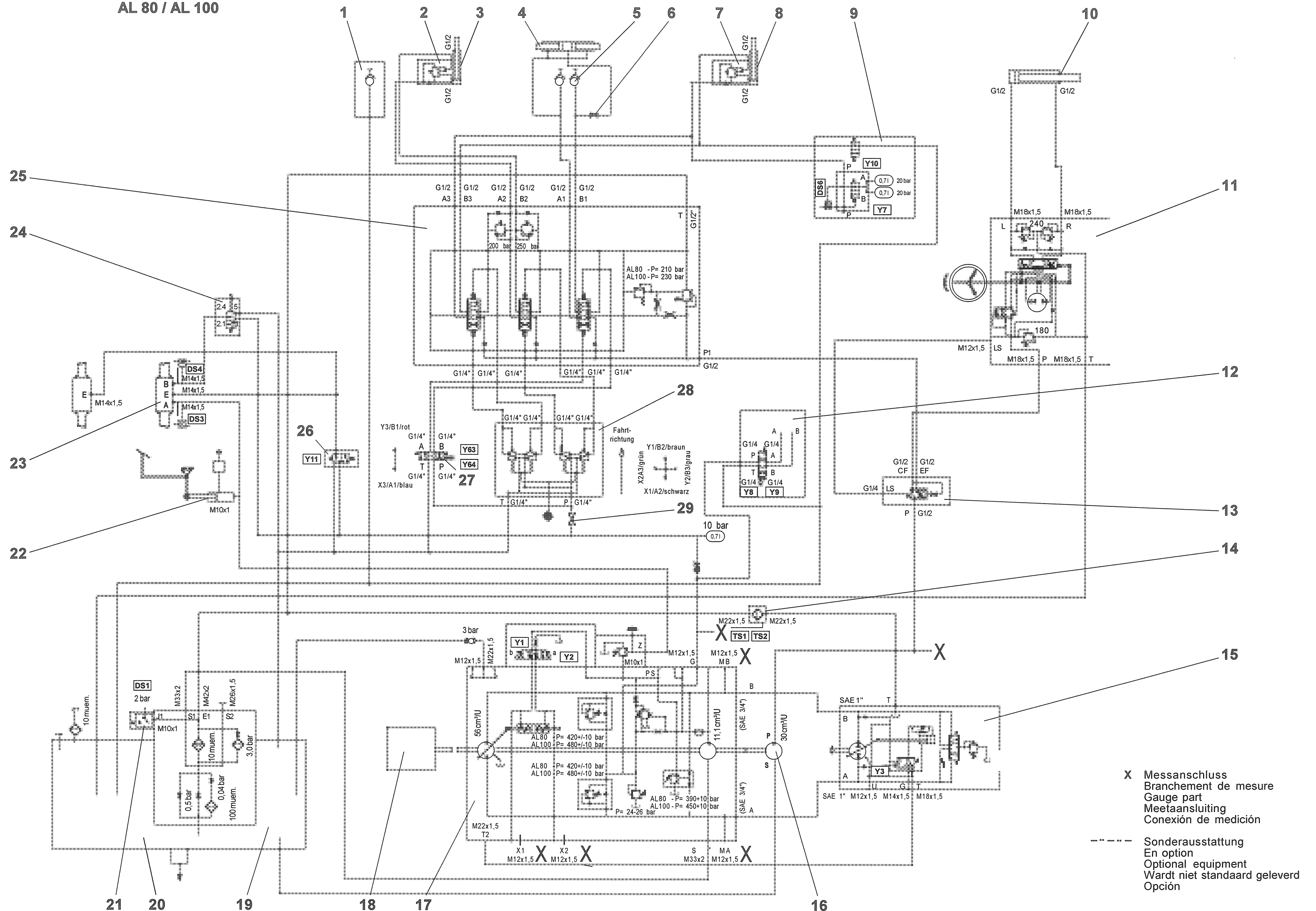
47	Actuator: Working lights
48	Actuator: Rear window heater
49	Actuator: Lifting device suspension (option):
50	Actuator: Warning beacon (opt.)
51	Actuator: Fan/blower
52	Gear switch (only for fast loaders)
53	2-pole socket
54	Turn signal relay
55	Interval timer
56	Buzzer
57	Radio (option)
58	Multifunction lever
59	Gear switch micro relay
60	Gear switch micro relay
61	Gear shift impulse relay
62	Gear shift timer relay
63	Heater fan motor
64	Air conditioning system (option)
65	Warning beacon (opt.)
66	Wiper motor, rear
67	Cigarette lighter
68	Interior lighting
69	Interior lighting switch
70	Rear window heater
71	Working lights
72	Working lights
73	Working lights
74	Working lights

Item Designation

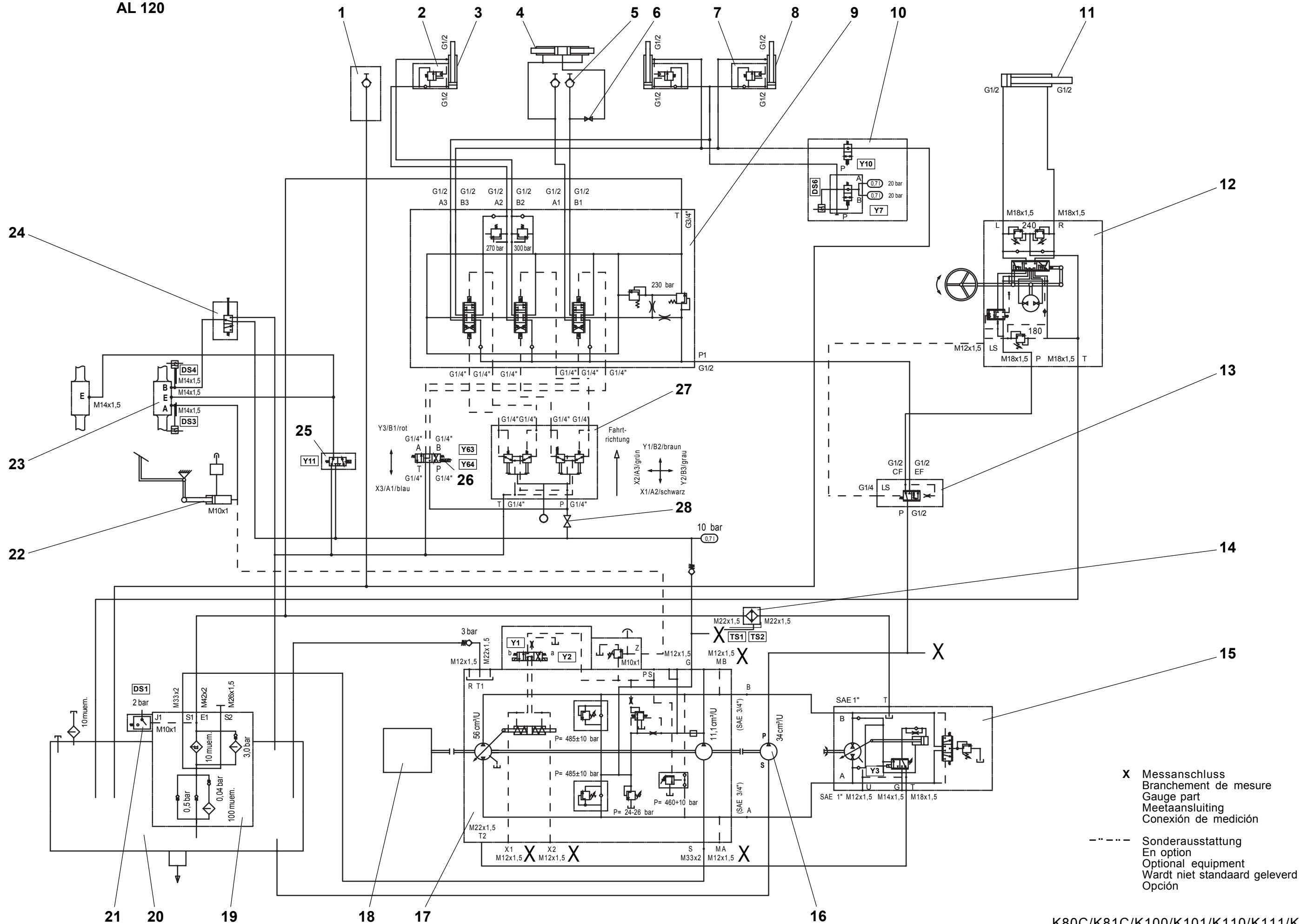
75	Alternator
76	Starter
77	Battery
78	Battery main switch
79	Fuse (oil cooler)
80	Relay (oil cooler)
81	Oil cooler thermostat 50°/100°
82	Oil cooler fan motor
83	Brake light switch
84	Valve Alpha max.
85	Direction detection valve
86	Reversing buzzer valve
87	Valve, reverse drive direction
88	Valve, forward drive direction
89	Valve for 2nd gear (only for fast loaders)
90	Valve for 1st gear (only for fast loaders)
91	Hydraulic oil filter switch
92	Dip pipe sensor
93	Parking brake switch
94	Window washer motor, rear
95	Windshield washer motor, front
96	License plate illumination (option)
97	Reversing light, left
98	Brake light, left
99	Tail light, left
100	Turn signal, rear left
101	Reversing light, right
102	Brake light, right
103	Tail light, right
104	Turn signal, rear right
105	Valve for auxiliary hydraulics: close bucket
106	Valve for auxiliary hydraulics: open bucket
107	Differential lock valve
108	Combination valve: pipe break protection/lifting device suspension (option)
109	Reservoir valve, lifting device suspension (option)
110	Memory valve, lifting device suspension (option):
111	Pressure switch, lifting device suspension (option):
112	Quick-change device release valve
113	Working lights (option)
114	Working lights (option)
115	High beam, left
116	Low beam, left
117	Parking light, left
118	Turn signal, front left
119	High beam, right
120	Low beam, right
121	Parking light, right
122	Turn signal, front right
123	Signal horn
124	Torque minus adaptation valve
125	Start fuel allowance valve
126	Engine shut-off valve
127	Oil pressure switch
128	Motor oil temperature sensor
129	7-pole socket (option)

NOTE

The bold numbers next to the item numbers in the electric wiring diagram are cross references to the respective part in the hydraulic diagram.



10.2.2 - 10.2004 Hydraulischschaltplan/Schéma hydraulique/Hydraulisch schakelschema/Hydraulic circuit diagram/Hydraulikoversigt/Plano de conexiones hidráulicas/
Hydraulisk koblingsskjema/Hydraulik kopplingsschema/Plano de circuitos hidráulicos
AL 120



10.2.1 Hydraulic diagram (AL 80 und AL 100)**Item Designation**

- 01 Unpressurized return line (option)
- 02 Pipe break protection, tilt cylinder (option)
- 03 Tip cylinder DW 110/50/377/693
- 04 Locking cylinder DW 40/25/347
- 05 Auxiliary hydraulics
- 06 Shut-off valve, quick-change device
- 07 Pipe break protection, lift cylinder (option)
- 08 Lift cylinder DW 130/80/526/944
- 09 Lifting device suspension (option)
- 10 Steering cylinder DW 80/40/395/712
- 11 Steering unit, 320/160 cm³/rev.
- 12 Hydraulic gear switch (only for fast loaders)
- 13 Priority valve
- 14 Hydraulic oil cooler
- 15 Drive motor A6VM 80 HA
- 16 Gear-type pump 30 cm³/rev.
- 17 Drive pump A4VG 56 DA
- 18 Drive engine:
 - AL 80 - KHD F4L 2011 / 40 kW / 2300 rpm
 - AL 100 - KHD F4L 2011 / 43.5 kW / 2300 rpm
- 19 Combined suction and return flow filter
- 20 Hydraulic oil tank
- 21 Electric contamination indicator
- 22 Main brake cylinder
- 23 Lamella brake
- 24 Parking brake valve
- 25 3-way valve
- 26 Differential lock
- 27 Control pressure transmitter, auxiliary hydraulics
- 28 Control pressure transmitter, working hydraulics
- 29 Shut-off valve, working hydraulics

option = Optional equipment

10.2.2 Hydraulic diagram AL 120**Item Designation**

01	Unpressurized return line (option)
02	Pipe break protection, tilt cylinder (option)
03	Tip cylinder DW 110/70/448/833
04	Locking cylinder DW 40/25/347
05	Auxiliary hydraulics
06	Shut-off valve, quick-change device
07	Pipe break protection, lift cylinder (option)
08	Lift cylinder DW 90/50/598/1013
09	3-way valve
10	Lifting device suspension (option)
11	Steering cylinder DW 80/40/395/712
12	Steering unit, 320/160 cm ³ /rev.
13	Priority valve
14	Hydraulic oil cooler
15	Drive motor A6VM 80 HA
16	Gear-type pump 34 cm ³ /rev.
17	Drive pump A4VG 56 DA
18	Drive engine: KHD BF4L 2011 / 53,5 kW / 2500 rpm
19	Combined suction and return flow filter
20	Hydraulic oil tank
21	Electric contamination indicator
22	Main brake cylinder
23	Lamella brake
24	Parking brake valve
25	Differential lock
26	Control pressure transmitter, auxiliary hydraulics
27	Control pressure transmitter, working hydraulics
28	Shut-off valve, working hydraulics

option = Optional equipment