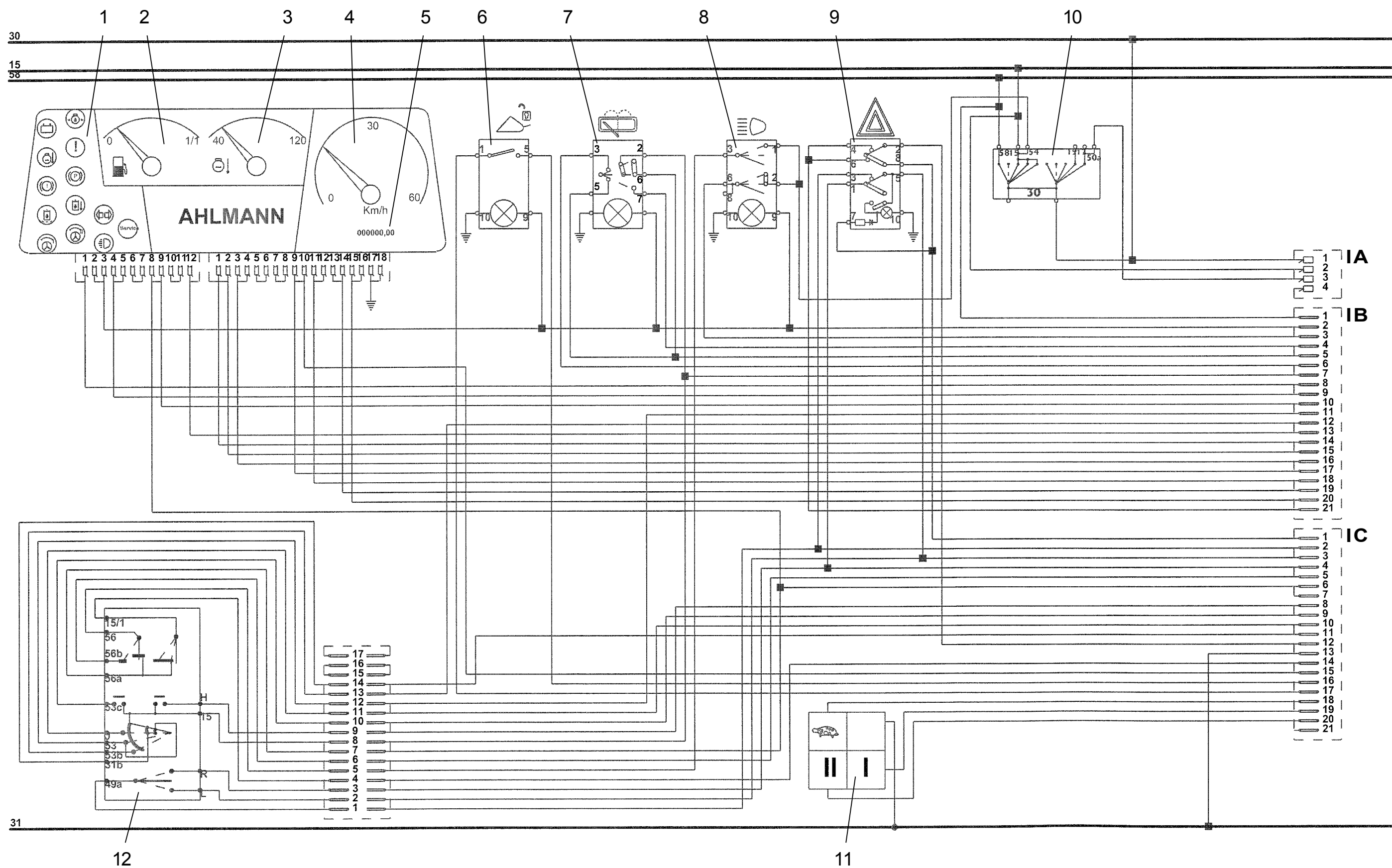
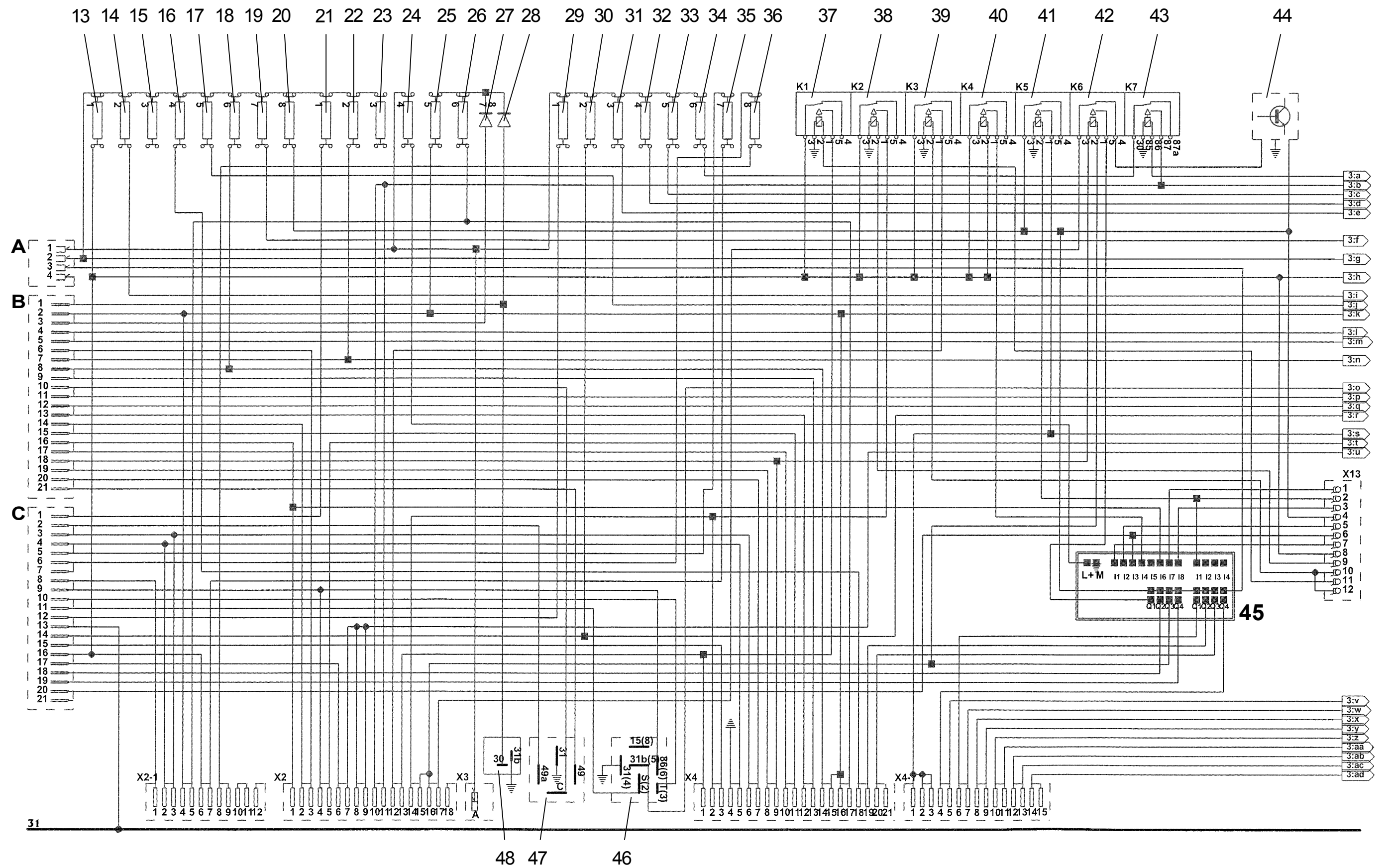


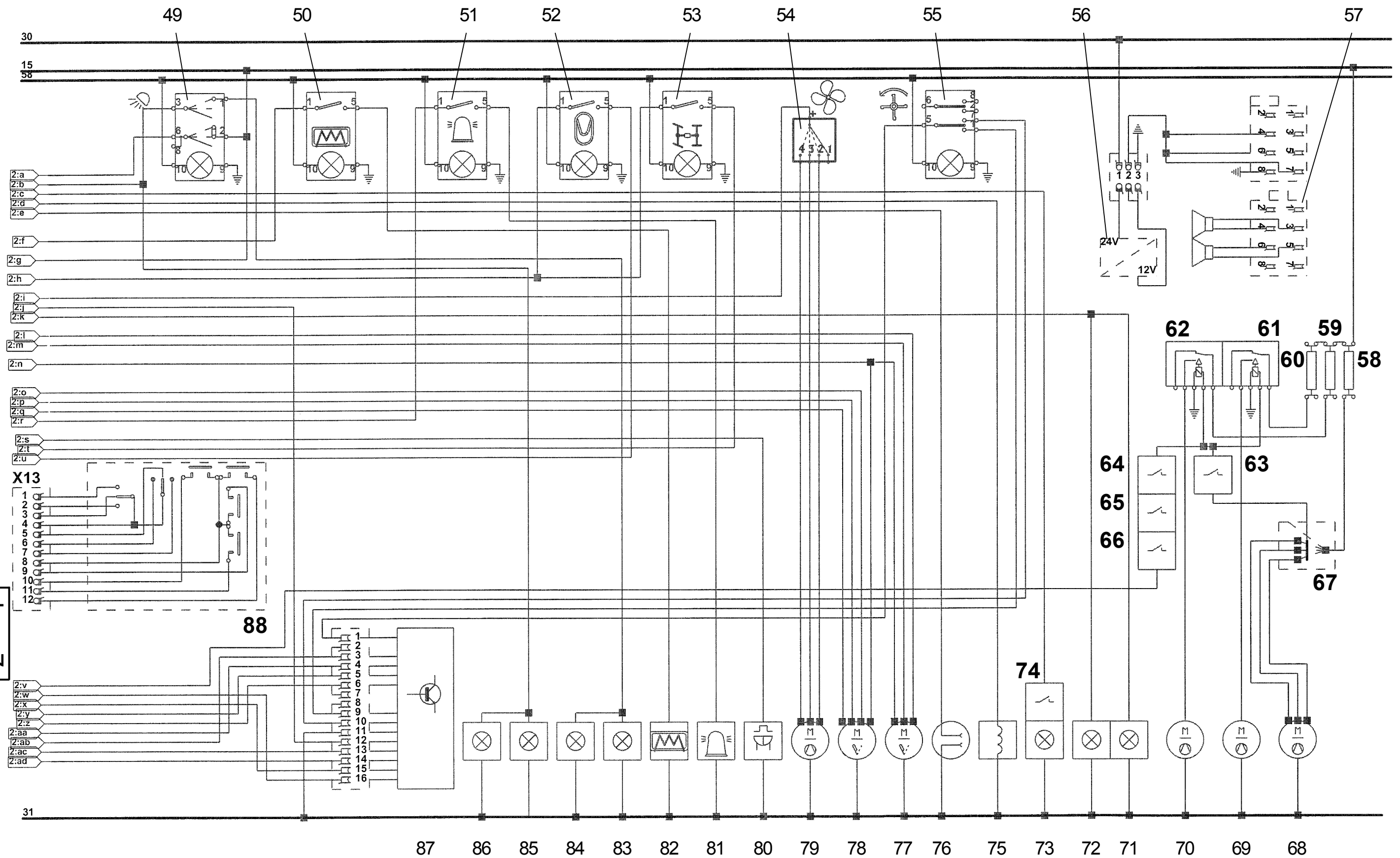
Diagrams



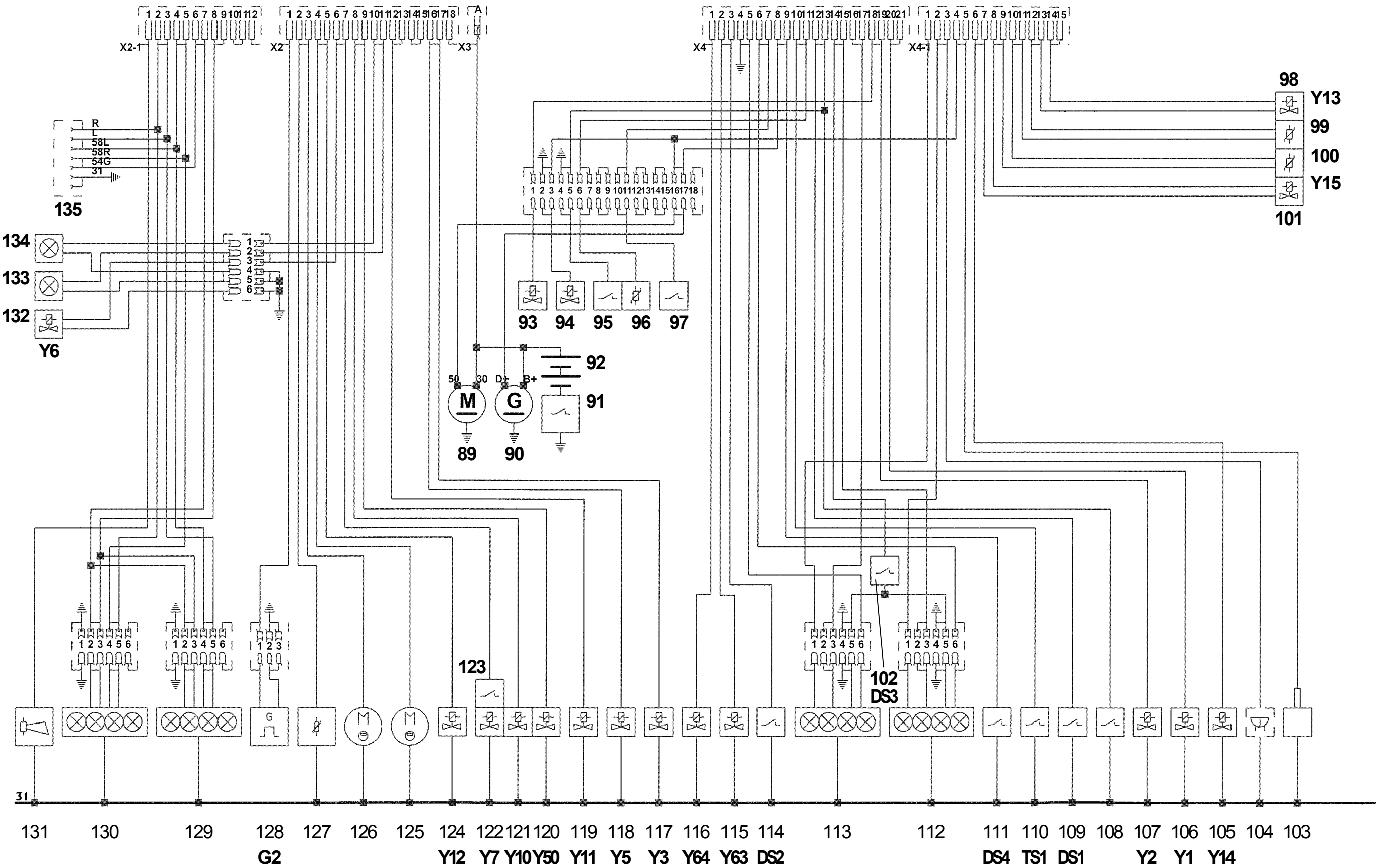


1 - 4

3 - 4



10.1 - 06.2005 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema



10.1 Electric wiring diagram

Item Designation

01	Indicator lamp assembly
02	Fuel gauge
03	Coolant temperature gauge
04	Tachometer
05	Operating hours meter
06	Actuator: release of quick-change device
07	Actuator: rear window wiper/washer
08	Actuator: road lights
09	Actuator: hazard flasher
10	Start switch
11	Indicator lamp assembly for gear shift
12	Steering column switch

Item Designation

13	Fuse (chapter 4.9/A1)	Hydraulics
14	Fuse (chapter 4.9/A2)	Heater
15	Fuse (free)	free
16	Fuse (chapter 4.9/A4)	Engine shut-off
17	Fuse (chapter 4.9/A5)	Fan
18	Fuse (chapter 4.9/A6)	Brake lights
19	Fuse (chapter 4.9/A7)	Rear window heater
20	Fuse (chapter 4.9/A8)	Traction drive
21	Fuse (chapter 4.9/B1)	Turn indicator
22	Fuse (chapter 4.9/B2)	Windshield wiper/washer
23	Fuse (free)	free
24	Fuse (free)	free
25	Fuse (chapter 4.9/B5)	Parking light, left
26	Fuse (chapter 4.9/B6)	Parking light, right
27	Light indicator diode (chapter 4.9/B7)	Diode light
28	Light indicator diode (chapter 4.9/B8)	Diode light
29	Fuse (chapter 4.9/C1)	Hazard flasher
30	Fuse (chapter 4.9/C2)	Warning beacon (opt.), headlamp flasher
31	Fuse (chapter 4.9/C3)	2-pole socket
32	Fuse (chapter 4.9/C4)	Cigarette lighter
33	Fuse (chapter 4.9/C5)	Interior lighting
34	Fuse (chapter 4.9/C6)	Working lights
35	Fuse (chapter 4.9/C7)	Dipped beam
36	Fuse (chapter 4.9/C8)	High beam
37	Relay for auxiliary hydraulics: close bucket	
38	Relay for auxiliary hydraulics: open bucket	
39	Relay for differential lock	
40	Relay for parking brake	
41	Relay for reversing buzzer / tail light / reversing beacon	
42	Relay for drive motor (only for slow loaders)	
43	Relay for working lights	
44	Stabilized power source	
45	Control for gear shift	
46	Interval timer	
47	Turn signal relay	
48	Acoustic warning buzzer	

Item Designation

49	Actuator: working lights
50	Actuator: rear window heater
51	Actuator: warning beacon (opt.)
52	Actuator: lifting device suspension (option)
53	Actuator: four-wheel drive shutdown
54	Actuator: fan/blower
55	Actuator: fan reversal unit (option)
56	Voltage transformer
57	Radio (option)
58	Fuse: air-conditioning system (4-13/arrows)
59	Fuse: air-conditioning system (4-13/arrows)
60	Fuse: air-conditioning system (4-13/arrows)
61	Relay for air-conditioning system
62	Relay for air-conditioning system
63	Air condition » on/off « switch
64	Pressure switch: air-conditioning system
65	Pressure switch: air-conditioning system
66	Pressure switch: air-conditioning system
67	Air condition fan switch
68	Ventilation motor for air-conditioning system
69	Air condition condenser fan
70	Air condition condenser fan
71	License plate illumination
72	License plate illumination
73	Interior lighting
74	Interior lighting switch
75	Cigarette lighter
76	2-pole socket
77	Wiper motor, rear
78	Wiper motor, front
79	Heater fan motor
80	Reversing warning buzzer
81	Warning beacon (opt.)
82	Rear window heater
83	Cabin work lights, rear
84	Cabin work lights, rear
85	Cabin work lights, front
86	Cabin work lights, front
87	Fan control
88	Multifunction lever, right

Item Designation

89	Starter
90	Alternator
91	Battery main switch
92	Batteries
93	Engine shut-off valve
94	Start fuel allowance valve
95	Coolant temperature switch
96	Coolant temperature sensor
97	Oil pressure switch
98	Fan valve
99	Temperature sensors
100	Temperature sensors
101	Fan reversal valve
102	Brake light switch
103	Air condition compressor
104	Reversing buzzer
105	Synchronisation valve
106	Valve, reverse drive direction
107	Valve, forward drive direction
108	Switch: low cooling water
109	Switch: hydraulic oil filter
110	Switch: hydraulic oil temperature
111	Switch: parking brake
112	Tail light, left
113	Tail light, right
114	Switch: service brake failure
115	Auxiliary hydraulics valve: open bucket
116	Auxiliary hydraulics valve: close bucket
117	Alpha max. valve
118	Gear switch valve (only for fast loaders)
119	Differential lock valve
120	Combination valve: pipe break protection / lifting device suspension (option)
121	Reservoir valve, lifting device suspension (option)
122	Memory valve, lifting device suspension (option)
123	Pressure switch, lifting device suspension (option)
124	Four-wheel drive valve (option)
125	Windshield washer motor, front
126	Window washer motor, rear
127	Dip pipe sensor
128	Speed sensor
129	Main headlights, left
130	Main headlights, right
131	Signal horn
132	Quick-change device release valve
133	Bucket arm working lights
134	Bucket arm working lights
135	7-pole socket



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.

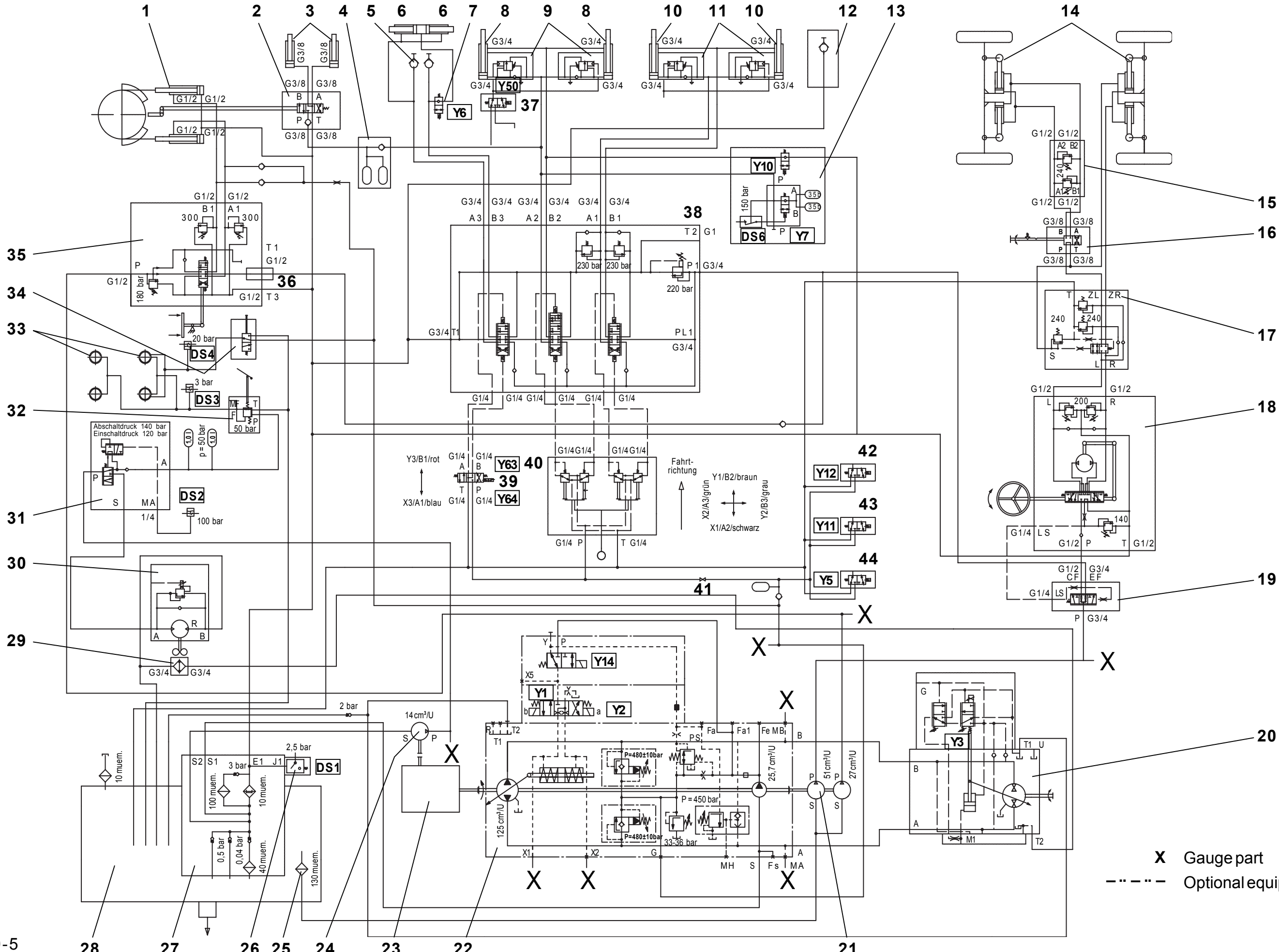
10.2 Hydraulic diagram

10.2.1 AS 210 hydraulic diagram (bolt lock), “20 km/h” model

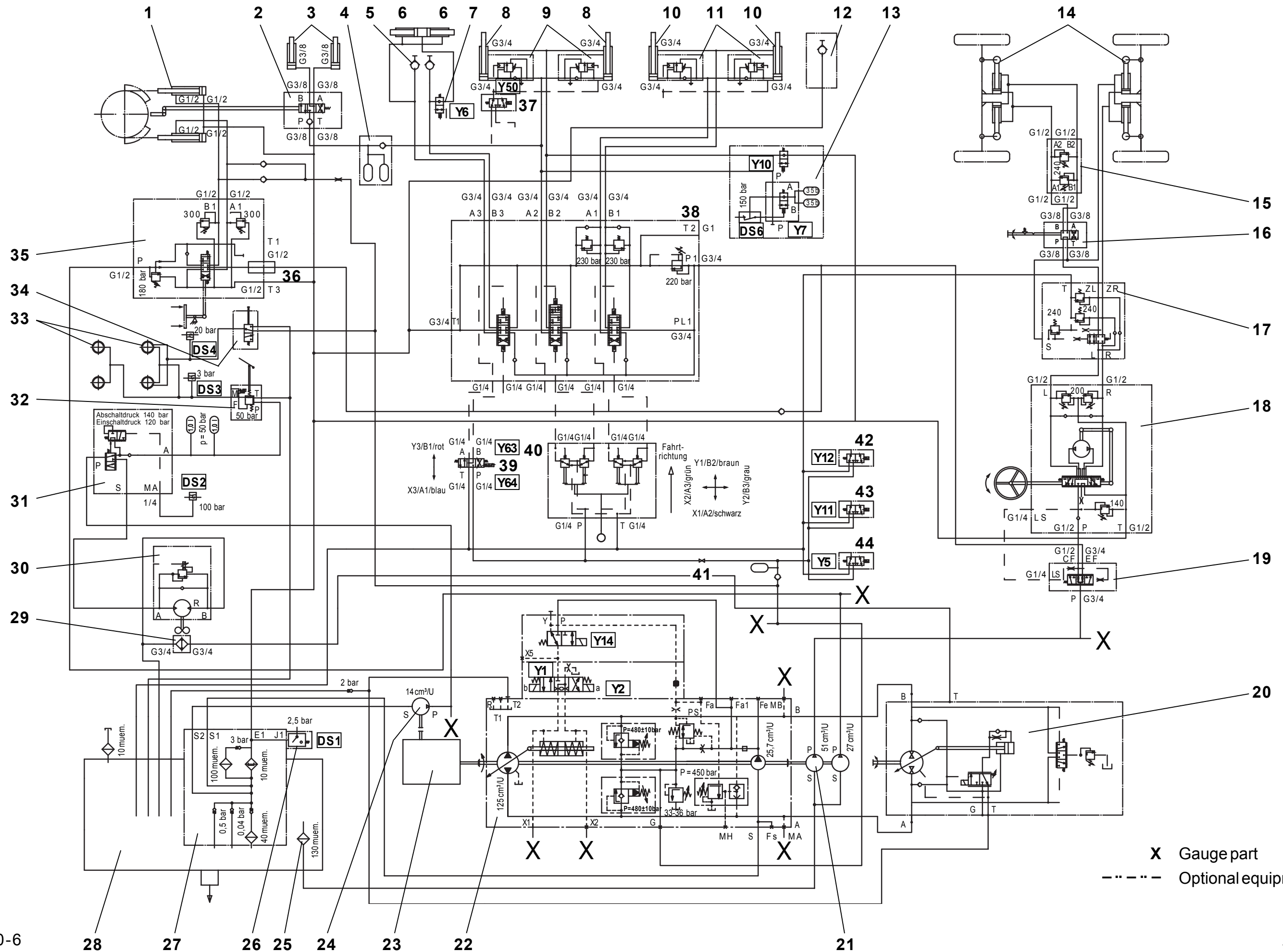
Item Designation

- 01 Swivel cylinder DW 110/45/910/1287
- 02 Supporting valve
- 03 Supporting cylinder EW 70/210/470
- 04 Reservoir system, pipe break protection (option)
- 05 Auxiliary hydraulics, external circuit
- 06 Locking cylinder DW 40/63/70/397
- 07 Shift valve for locking the quick-change device
- 08 Lift cylinder DW 110/70/908/1317
- 09 Pipe break protection, lift cylinder (option)
- 10 Tip cylinder DW 110/70/545/1015
- 11 Pipe break protection, tilt cylinder (option)
- 12 Unpressurised return line (option)
- 13 Lifting device suspension
- 14 Steering cylinder 80/40/152/472.5
- 15 Double shock valve
- 16 Steering switching valve
- 17 Blocking valve
- 18 Steering unit, 300/100 cm³/rev.
- 19 Priority valve
- 20 Drive motor A6VM 160 EP2D
- 21 Gear-type pump (51+27) cm³/rev.
- 22 Drive pump A4VG 125 DA
- 23 Drive motor
- 24 Gear-type pump 14 cm³/rev.
- 25 Suction strainer
- 26 Electric contamination indicator
- 27 Combined suction and return flow filter
- 28 Hydraulic oil tank
- 29 Hydraulic oil cooler
- 30 Hydrostatic fan
- 31 Shut-off valve
- 32 Brake valve
- 33 Lamella brake
- 34 Parking brake valve
- 35 1-way valve
- 36 High-pressure transition
- 37 Combination valve: pipe break protection / lifting device suspension (option)
- 38 3-way valve
- 39 Control pressure valve, auxiliary hydraulics
- 40 Control pressure transmitter, working hydraulics
- 41 Shut-off valve, working hydraulics
- 42 Four-wheel drive shutdown valve
- 43 Differential lock valve
- 44 Hydraulic gear shift

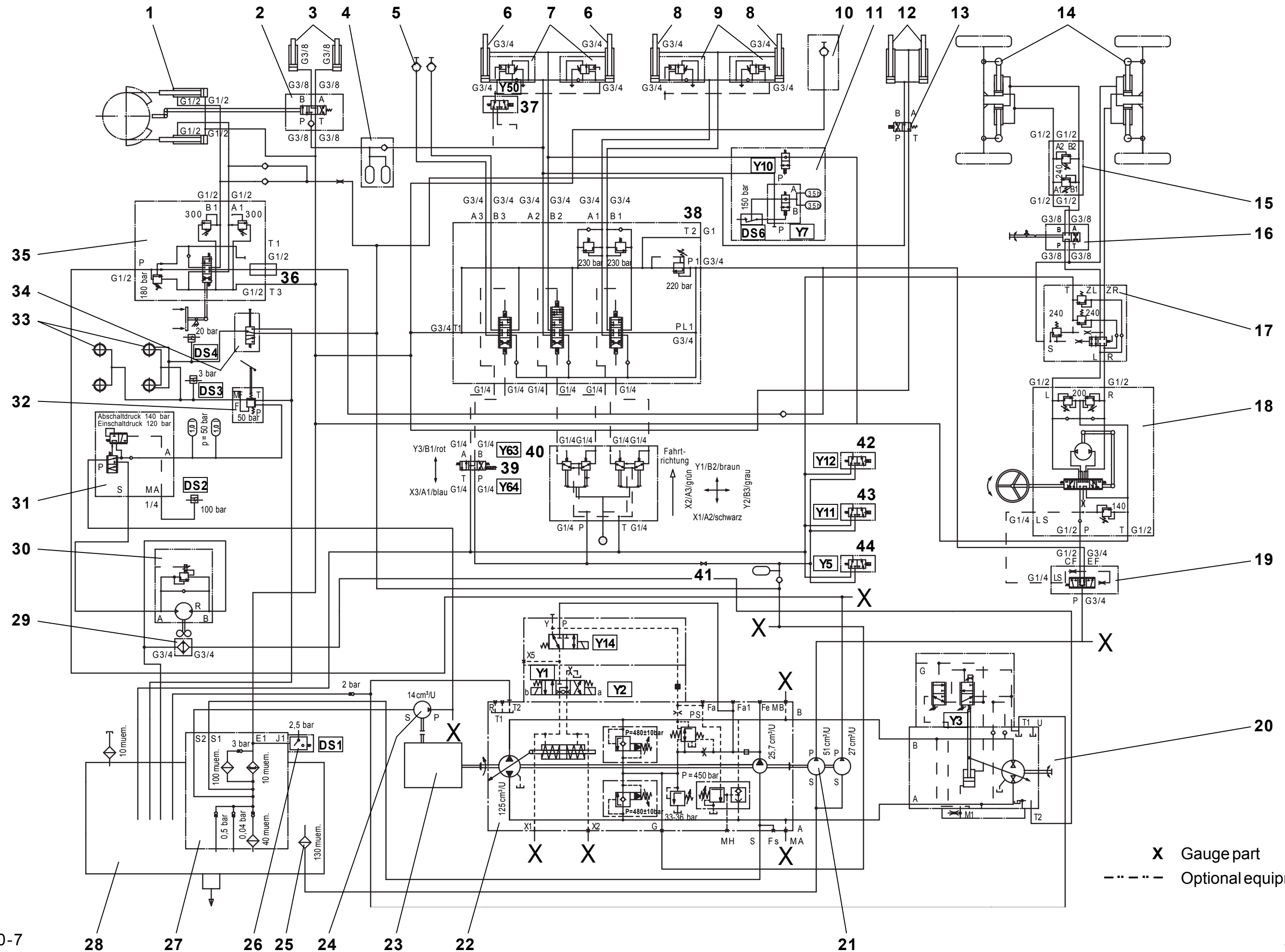
10.2.1 - 04.2004 Hydraulic diagram AS 210 (bolt lock) "20 km/h" variant



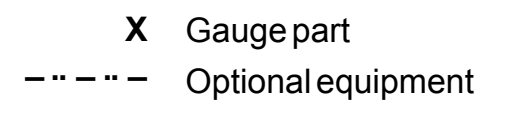
10.2.2 - 07.2004 Hydraulic diagram AS 210 (bolt lock) "35 km/h" variant



10.2.3 - 07.2004 Hydraulic diagram AS 210 (claw lock) "20 km/h" variant



10.2.4 - 07.2004 Hydraulic diagram AS 210 (claw lock) "35 km/h" variant



10.2.2 AS 210 hydraulic diagram (bolt lock), “35 km/h” model

Item Designation

- 01 Swivel cylinder DW 110/45/910/1287
- 02 Supporting valve
- 03 Supporting cylinder EW 70/210/470
- 04 Reservoir system, pipe break protection (option)
- 05 Auxiliary hydraulics, external circuit
- 06 Locking cylinder DW 40/63/70/397
- 07 Shift valve for locking the quick-change device
- 08 Lift cylinder DW 110/70/908/1317
- 09 Pipe break protection, lift cylinder (option)
- 10 Tip cylinder DW 110/70/545/1015
- 11 Pipe break protection, tilt cylinder (option)
- 12 Unpressurised return line (option)
- 13 Lifting device suspension
- 14 Steering cylinder 80/40/152/472.5
- 15 Double shock valve
- 16 Steering switching valve
- 17 Blocking valve
- 18 Steering unit, 300/100 cm³/rev.
- 19 Priority valve
- 20 Drive motor A6VM 160 EP2D
- 21 Gear-type pump (51+27) cm³/rev.
- 22 Drive pump A4VG 125 DA
- 23 Drive motor
- 24 Gear-type pump 14 cm³/rev.
- 25 Suction strainer
- 26 Electric contamination indicator
- 27 Combined suction and return flow filter
- 28 Hydraulic oil tank
- 29 Hydraulic oil cooler
- 30 Hydrostatic fan
- 31 Shut-off valve
- 32 Brake valve
- 33 Lamella brake
- 34 Parking brake valve
- 35 1-way valve
- 36 High-pressure transition
- 37 Combination valve: pipe break protection / lifting device suspension (option)
- 38 3-way valve
- 39 Control pressure valve, auxiliary hydraulics
- 40 Control pressure transmitter, working hydraulics
- 41 Shut-off valve, working hydraulics
- 42 Four-wheel drive shutdown valve
- 43 Differential lock valve
- 44 Hydraulic gear shift

10.2.3 AS 210 hydraulic diagram (claw lock), "20 km/h" model

Item Designation

- 01 Swivel cylinder DW 110/45/910/1287
- 02 Supporting valve
- 03 Supporting cylinder EW 70/210/470
- 04 Reservoir system, pipe break protection (option)
- 05 Auxiliary hydraulics, external circuit
- 06 Lift cylinder DW 110/70/908/1317
- 07 Pipe break protection, lift cylinder (option)
- 08 Tip cylinder DW 110/70/545/1015
- 09 Pipe break protection, tilt cylinder (option)
- 10 Unpressurised return line (option)
- 11 Lifting device suspension
- 12 Locking cylinder DW 40/63/70/397
- 13 Shift valve for locking the quick-change device
- 14 Steering cylinder 80/40/152/472.5
- 15 Double shock valve
- 16 Steering switching valve
- 17 Blocking valve
- 18 Steering unit, 300/100 cm³/rev.
- 19 Priority valve
- 20 Drive motor A6VM 160 EP2D
- 21 Gear-type pump (51+27) cm³/rev.
- 22 Drive pump A4VG 125 DA
- 23 Drive motor
- 24 Gear-type pump 14 cm³/rev.
- 25 Suction strainer
- 26 Electric contamination indicator
- 27 Combined suction and return flow filter
- 28 Hydraulic oil tank
- 29 Hydraulic oil cooler
- 30 Hydrostatic fan
- 31 Shut-off valve
- 32 Brake valve
- 33 Lamella brake
- 34 Parking brake valve
- 35 1-way valve
- 36 High-pressure transition
- 37 Combination valve: pipe break protection/lifting device suspension (option)
- 38 3-way valve
- 39 Control pressure valve, auxiliary hydraulics
- 40 Control pressure transmitter, working hydraulics
- 41 Shut-off valve, working hydraulics
- 42 Four-wheel drive shutdown valve
- 43 Differential lock valve
- 44 Hydraulic gear shift

10.2.4 AS 210 hydraulic diagram (claw lock), “35 km/h” model

Item Designation

- 01 Swivel cylinder DW 110/45/910/1287
- 02 Supporting valve
- 03 Supporting cylinder EW 70/210/470
- 04 Reservoir system, pipe break protection (option)
- 05 Auxiliary hydraulics, external circuit
- 06 Lift cylinder DW 110/70/908/1317
- 07 Pipe break protection, lift cylinder (option)
- 08 Tip cylinder DW 110/70/545/1015
- 09 Pipe break protection, tilt cylinder (option)
- 10 Unpressurised return line (option)
- 11 Lifting device suspension
- 12 Locking cylinder DW 40/63/70/397
- 13 Shift valve for locking the quick-change device
- 14 Steering cylinder 80/40/152/472.5
- 15 Double shock valve
- 16 Steering switching valve
- 17 Blocking valve
- 18 Steering unit, 300/100 cm³/rev.
- 19 Priority valve
- 20 Drive motor A6VM 160 EP2D
- 21 Gear-type pump (51+27) cm³/rev.
- 22 Drive pump A4VG 125 DA
- 23 Drive motor
- 24 Gear-type pump 14 cm³/rev.
- 25 Suction strainer
- 26 Electric contamination indicator
- 27 Combined suction and return flow filter
- 28 Hydraulic oil tank
- 29 Hydraulic oil cooler
- 30 Hydrostatic fan
- 31 Shut-off valve
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- 34 Parking brake valve
- 35 1-way valve
- 36 High-pressure transition
- 37 Combination valve: pipe break protection / lifting device suspension (option)
- 38 3-way valve
- 39 Control pressure valve, auxiliary hydraulics
- 40 Control pressure transmitter, working hydraulics
- 41 Shut-off valve, working hydraulics
- 42 Four-wheel drive shutdown valve
- 43 Differential lock valve
- 44 Hydraulic gear shift