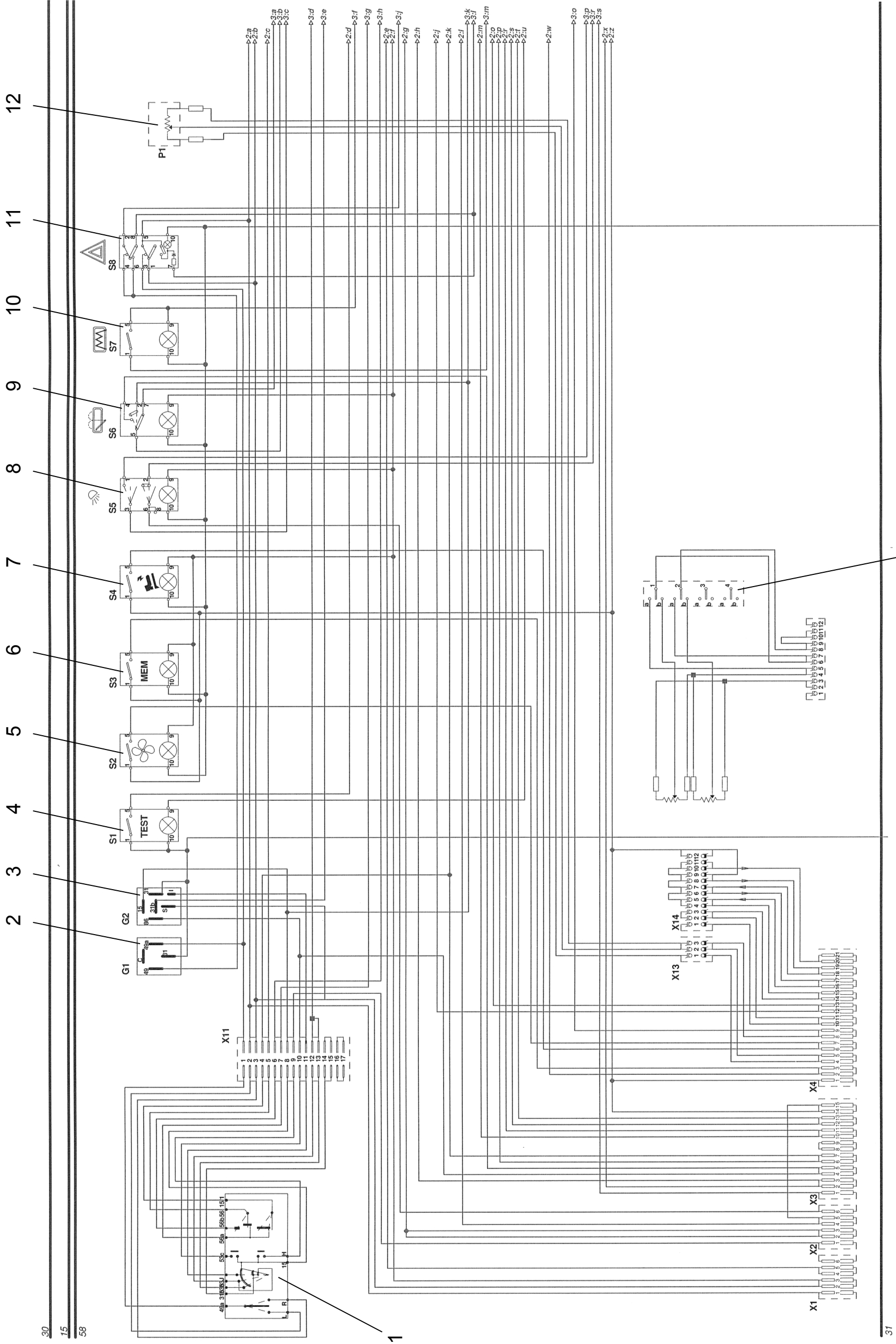


Circuit diagrams

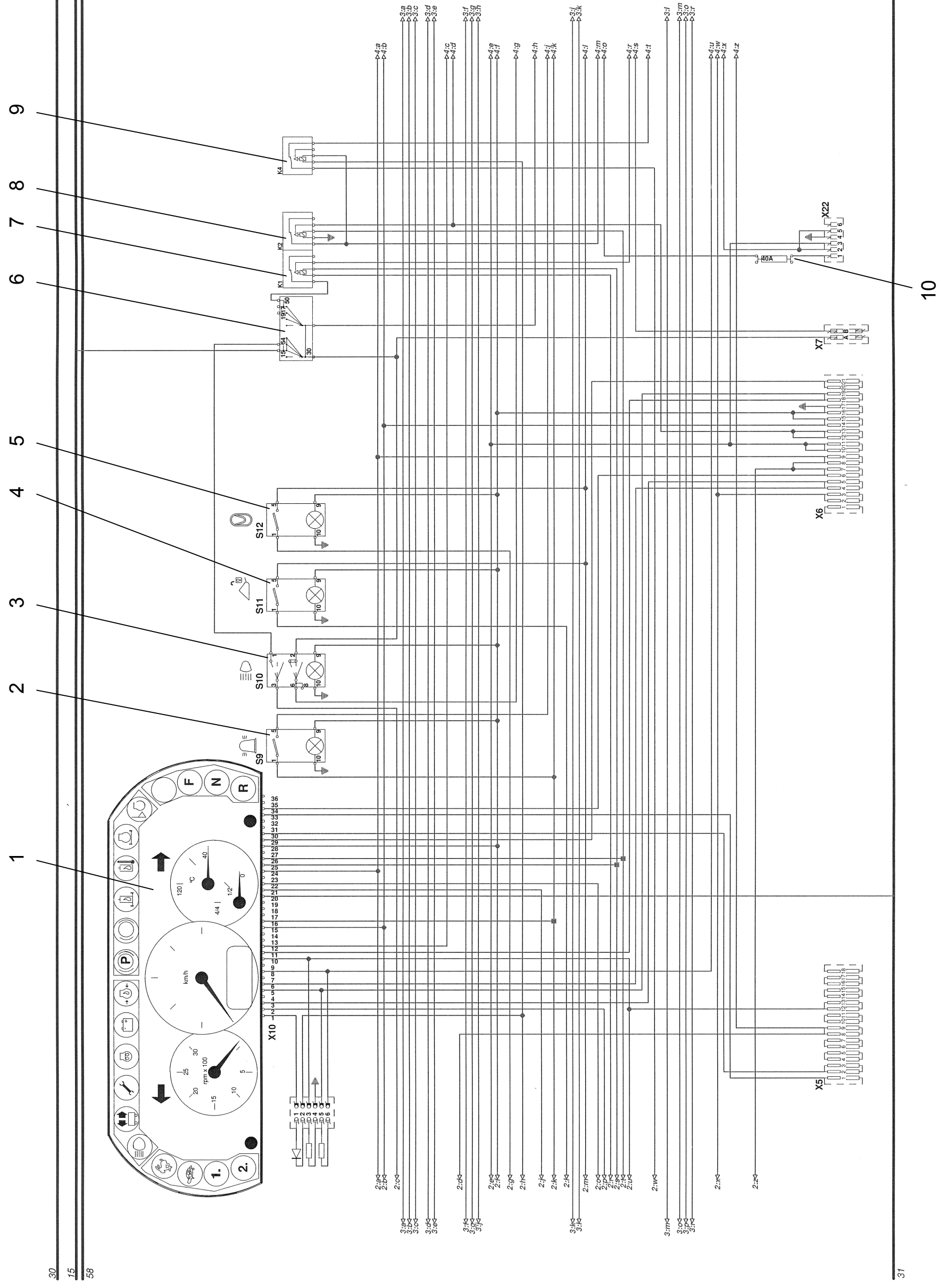
10.1 - 04.2008 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/Elektrisk koplingsschema



10.1 Electric wiring diagram

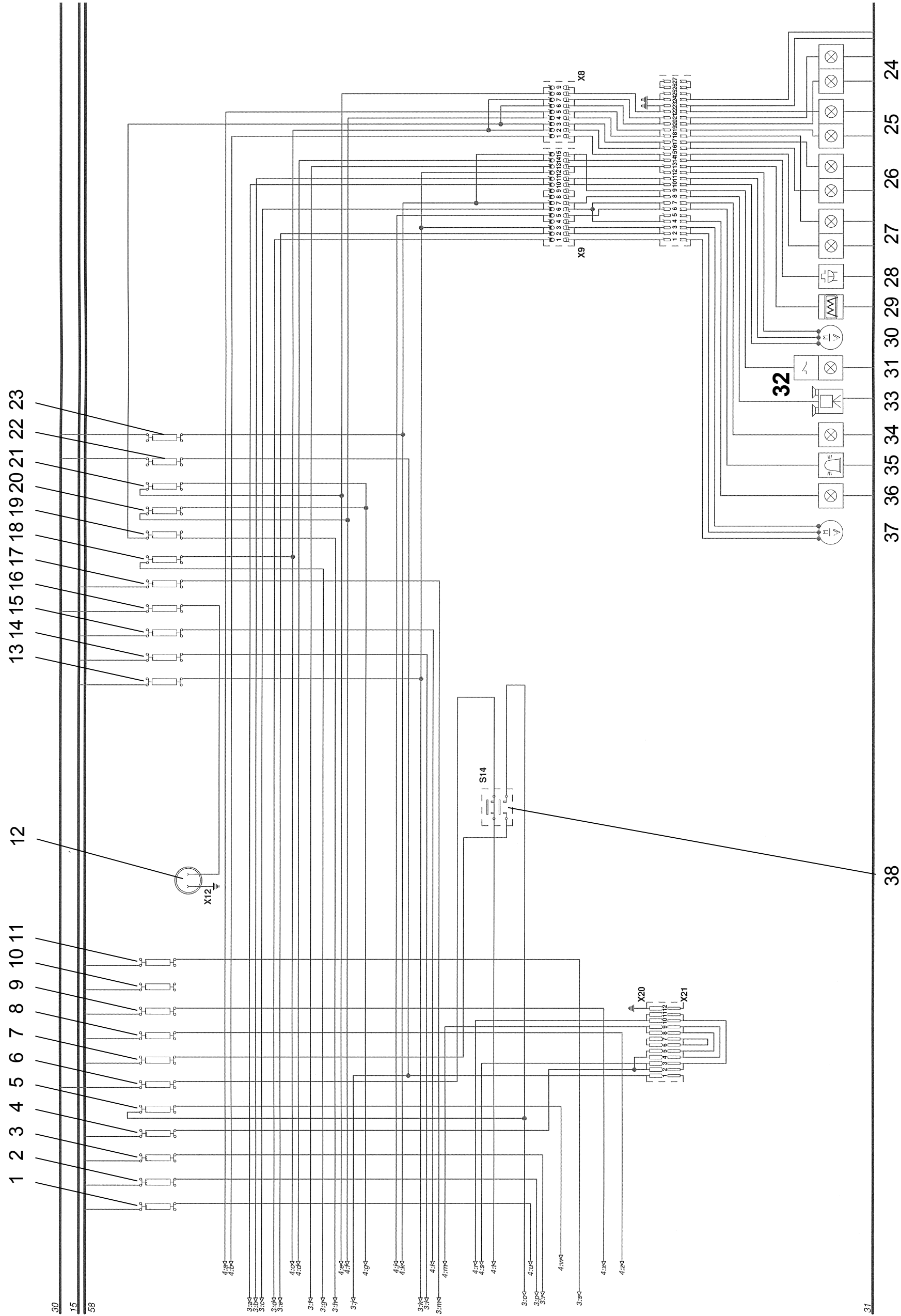
Sheet/item	Designation
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1-5/1	Steering column switch
1-5/2	Turn signal relay
1-5/3	Interval timer
1-5/4	Actuator (pushbutton): engine diagnosis
1-5/5	Actuator (pushbutton): fan reversal (option)
1-5/6	Actuator (pushbutton): TEACH function (option)
1-5/7	Actuator: ECO mode function
1-5/8	Actuator: Working lights
1-5/9	Actuator: rear window wiper/washer
1-5/10	Actuator: Rear window heater
1-5/11	Actuator: Hazard flasher
1-5/12	Inching speed control
1-5/13	Switchover hand throttle/foot throttle



Sheet/item	Designation
2-5/1	Multifunction panel
2-5/2	Actuator: warning beacon (opt.)
2-5/3	Actuator: road lights
2-5/4	Actuator (pushbutton): quick-change device release
2-5/5	Actuator: Lifting device suspension
2-5/6	Start switch
2-5/7	Starter interlock relay
2-5/8	Relay reversing light/reversing buzzer
2-5/9	Traction drive cut-out relay
2-5/10	Maxi fuse (air conditioner)

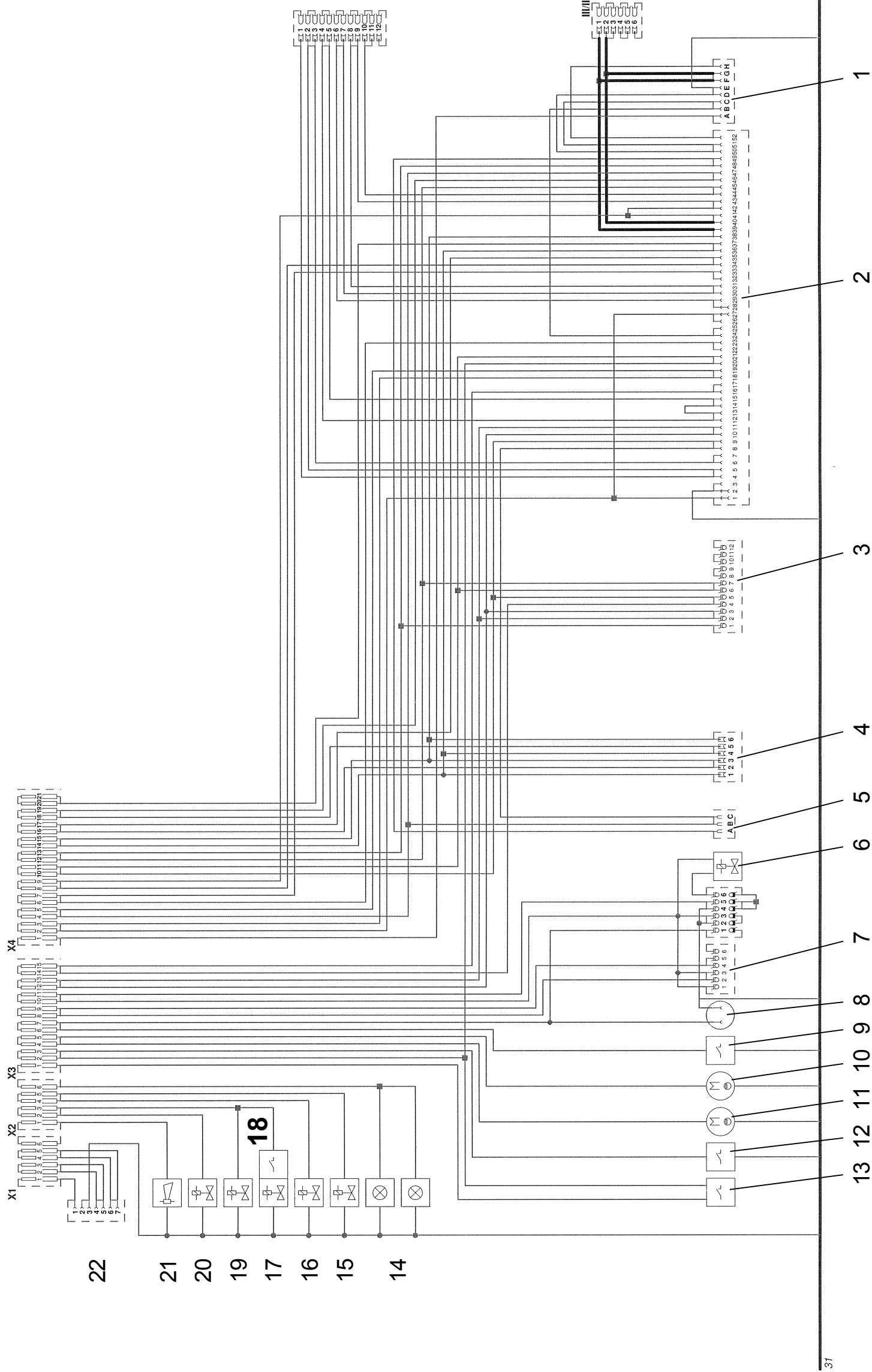
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Sheet/item	Designation
3-5/1	Fuse (Figure 4-9b/1)
3-5/2	Fuse (Figure 4-9b/2)
3-5/3	Fuse (Figure 4-9b/3)
3-5/4	Fuse (Figure 4-9b/4)
3-5/5	Fuse (Figure 4-9b/5)
3-5/6	Fuse (Figure 4-9b/6)
3-5/7	Fuse (Figure 4-9b/7)
3-5/8	Fuse (Figure 4-9b/8)
3-5/9	Fuse (Figure 4-9b/9)
3-5/10	Fuse (Figure 4-9b/10)
3-5/11	Fuse (Figure 4-9b/11)
3-5/12	2-pole socket in instrument panel
3-5/13	Fuse (Figure 4-9a/1)
3-5/14	Fuse (Figure 4-9a/2)
3-5/15	Fuse (Figure 4-9a/3)
3-5/16	Fuse (Figure 4-9a/4)
3-5/17	Fuse (Figure 4-9a/5)
3-5/18	Fuse (Figure 4-9a/6)
3-5/19	Fuse (Figure 4-9a/7)
3-5/20	Fuse (Figure 4-9a/8)
3-5/21	Fuse (Figure 4-9a/9)
3-5/22	Fuse (Figure 4-9a/10)
3-5/23	Fuse (Figure 4-9a/11)
3-5/24	Driving light, left
3-5/25	Indicator/position lamp, left
3-5/26	Driving light, right
3-5/27	Indicator/position lamp, right
3-5/28	Reversing warning buzzer
3-5/29	Rear window heater
3-5/30	Wiper motor, rear
3-5/31	Interior lighting
3-5/32	Switch for interior lighting
3-5/33	Radio (option)
3-5/34	Working lights, left
3-5/35	Warning beacon (opt.)
3-5/36	Working lights, right
3-5/37	Wiper motor, front
3-5/38	Emergency stop switch

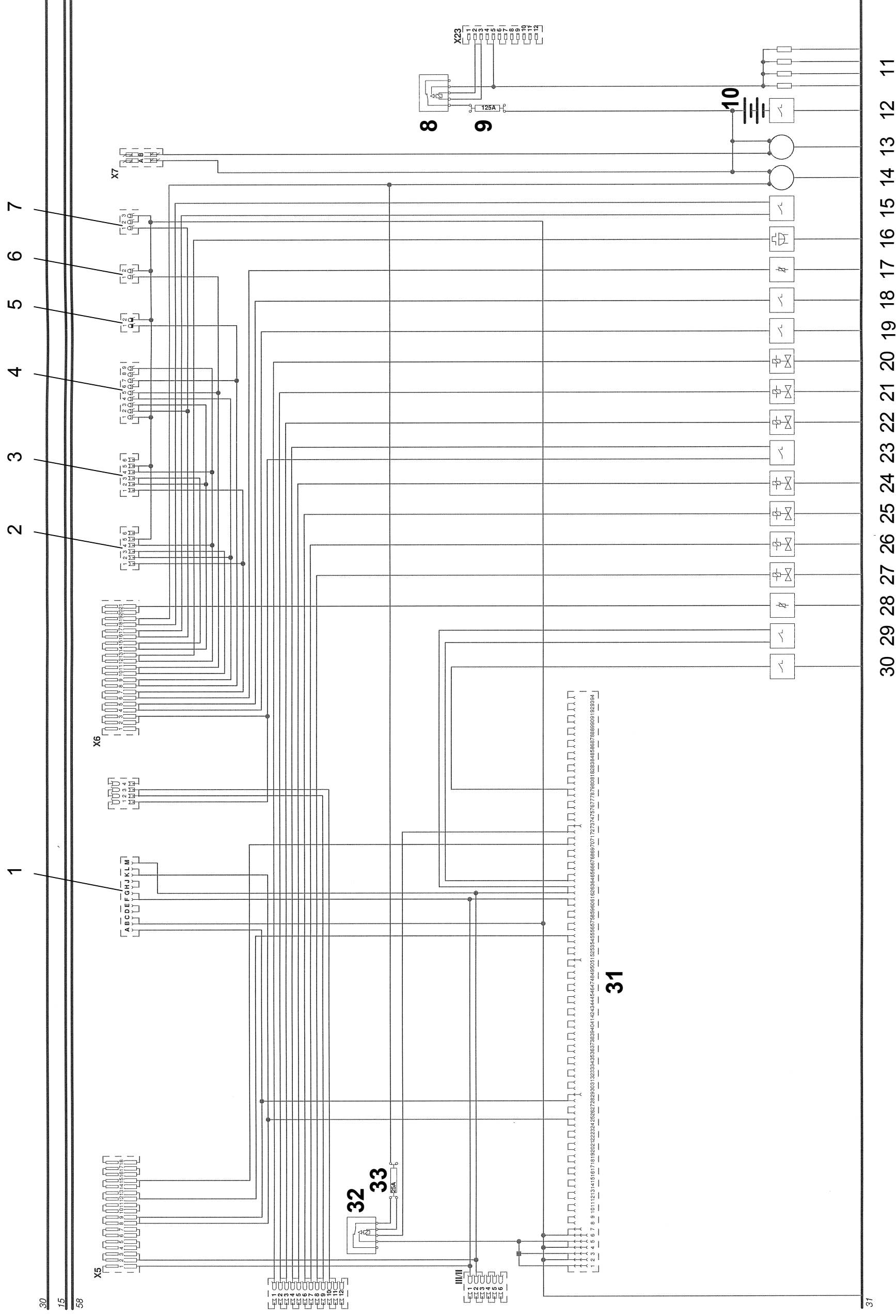
10.1 - 04.2008 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/Elektrisk kopplingschema

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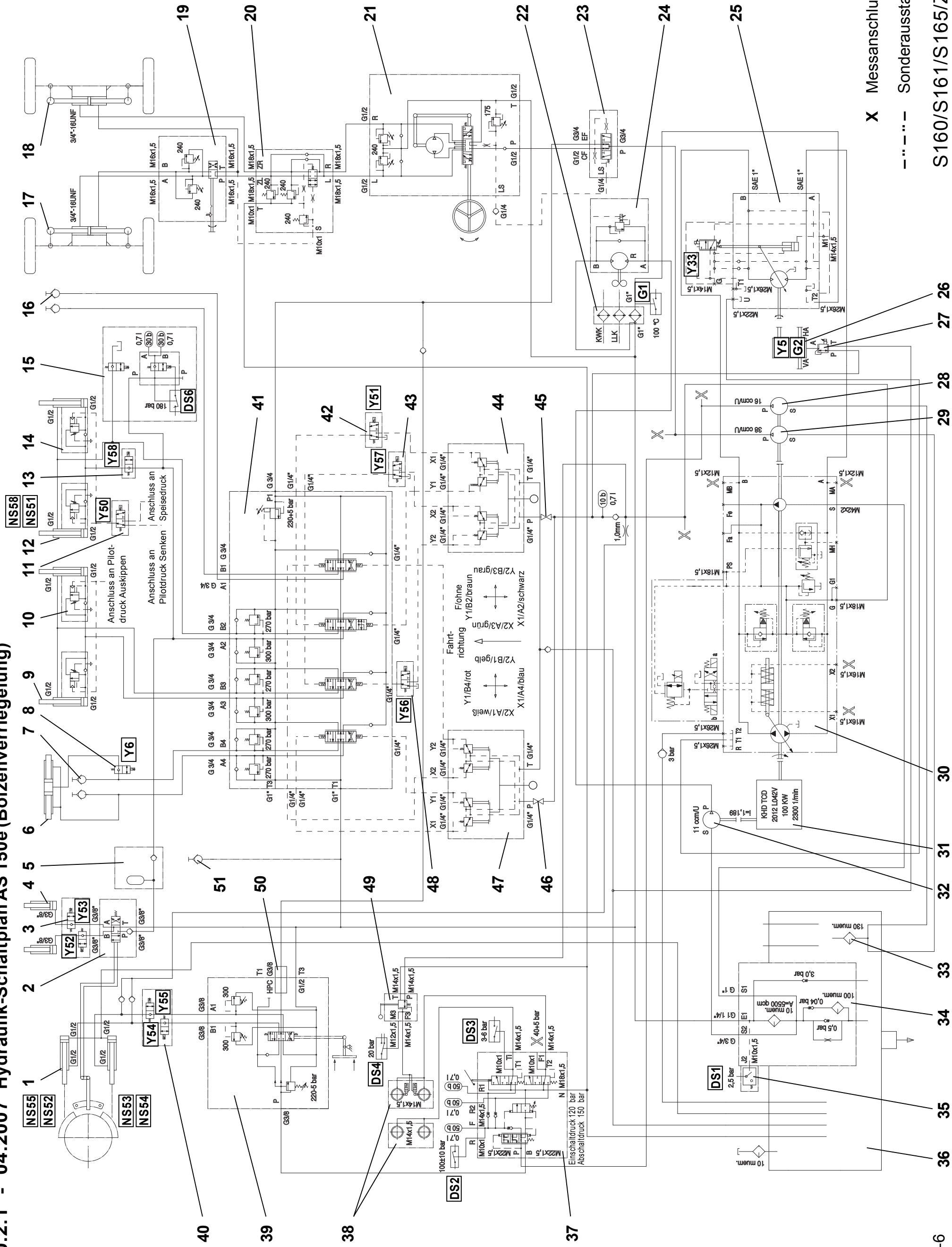
Sheet/item	Designation
4-5/1	Connector, traction drive diagnosis
4-5/2	Traction drive controller
4-5/3	Connector, multifunction lever right
4-5/4	Connector, accelerator
4-5/5	Pressure sensor, inching
4-5/6	Valve, working hydraulics cut-off
4-5/7	Connector, multifunction lever left
4-5/8	2-pole socket (seat console)
4-5/9	Switch, service brake failure
4-5/10	Washer motor, rear
4-5/11	Washer motor, front
4-5/12	Parking brake switch
4-5/13	Brake light switch
4-5/14	Working lights, bucket arm
4-5/15	Valve, coupling/transmission
4-5/16	Valve, quick-change device release
4-5/17	Memory valve, lifting device suspension (option)
4-5/18	Switch, memory valve, lifting device suspension switch (option)
4-5/19	Reservoir valve, lifting device suspension (option)
4-5/20	Combination valve: pipe break protection / lifting device suspension (option)
4-5/21	Signal horn
4-5/22	7-pole socket

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Sheet/item	Designation
5-5/1	Connector, engine diagnosis
5-5/2	Connector, tail light, left
5-5/3	Connector, tail light, right
5-5/4	Connector, socket, rear
5-5/5	Connector, 3rd brake light
5-5/6	Connector, engine compartment lighting
5-5/7	Connector, license plate lighting
5-5/8	Glow start system relay
5-5/9	Maxi fuse, glow start system
5-5/10	Batteries
5-5/11	Glow plugs
5-5/12	Battery main switch
5-5/13	Starter
5-5/14	Alternator
5-5/15	Switch, low cooling water
5-5/16	Reversing warning buzzer
5-5/17	Dip pipe sensor
5-5/18	Switch, hydraulic oil temperature
5-5/19	Switch, hydraulic oil filter
5-5/20	Proportional valve, fan
5-5/21	Valve, parking brake
5-5/22	Valve, fan reversal
5-5/23	Switch, engine oil temperature
5-5/24	Valve, reverse drive direction
5-5/25	Valve, forward drive direction
5-5/26	Valve, hydro motor
5-5/27	Pressure reduction valve
5-5/28	Speed transducer, hydro motor
5-5/29	Switch, water in fuel
5-5/30	Level switch, water low
5-5/31	Engine controller
5-5/32	Relay, engine controller
5-5/33	Fuse, engine controller

10.2.1 - 04.2007 Hydraulik-Schaltplan AS 150e (Bolzenverriegelung)



X	Messanschluss
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10-6

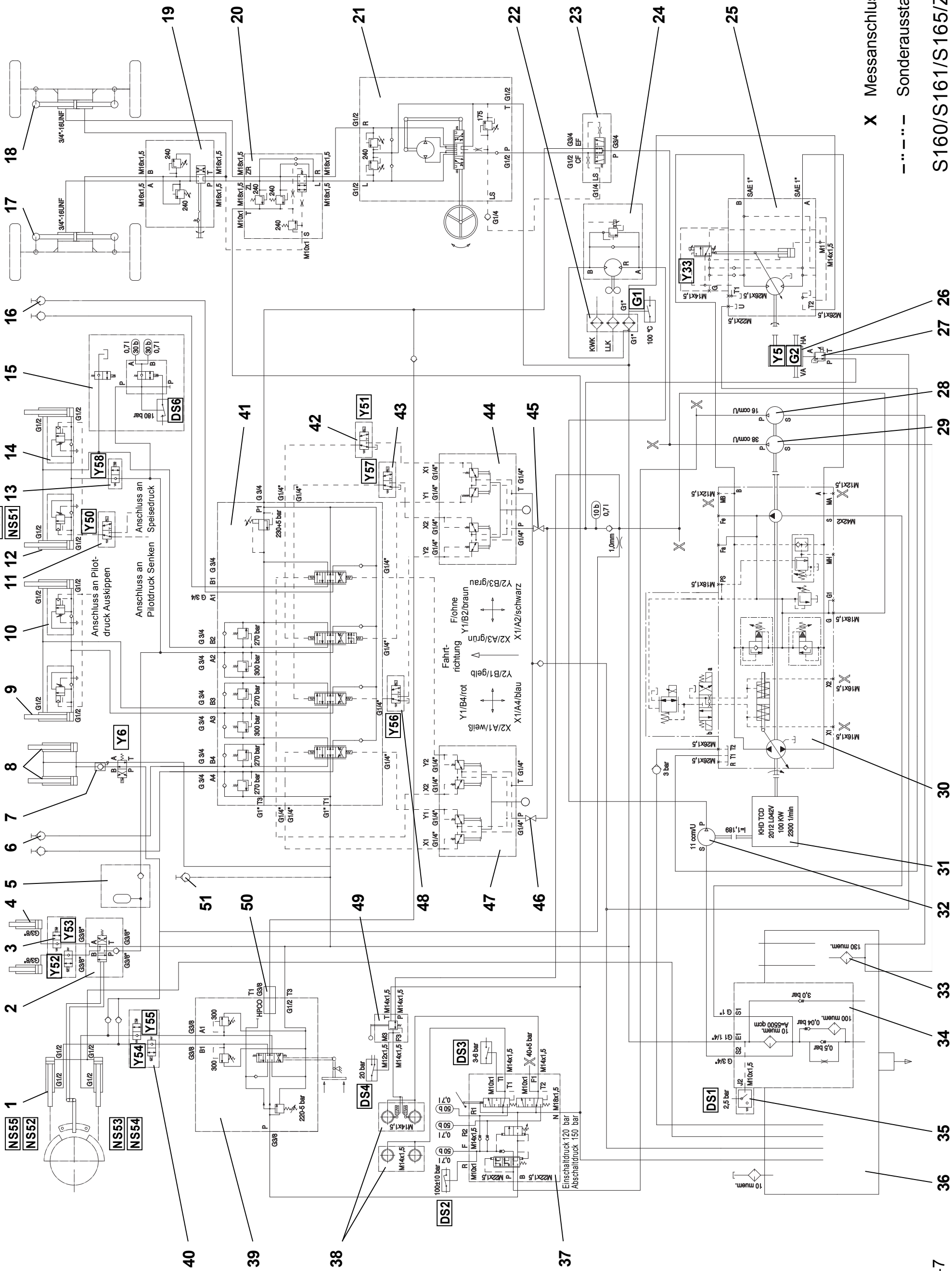
S160/S161/S165/Z162

10.2 Hydraulic diagram

10.2.1 Hydraulic diagram AS 150e (bolt lock)

Item	Designation
01	Swivel cylinder DW 100/45/785/1095
02	Supporting valve
03	Leakage-free lock
04	Supporting cylinder EW 60/210/518
05	Reservoir system, pipe break protection (option)
06	Locking cylinder GDW 63/40/70/382
07	Auxiliary hydraulics, external circuit
08	Electrohydraulic interlock for quick-change device
09	Tip cylinder DW 90/55/540/964
10	Pipe break protection, tip cylinder (option)
11	Combination valve: pipe break protection / lifting device suspension (option)
12	Lift cylinder DW 100/60/704/1146
13	Lowering restriction valve (AKE) (SA)
14	Pipe break protection, lift cylinder (option)
15	lifting device suspension (option)
16	Auxiliary hydraulics, left circuit
17	Steering cylinder front GDW100/50/180
18	Steering cylinder rear GDW100/50/180
19	Steering switching valve
20	Blocking valve (option)
21	Steering unit, 240/100 cm ³ /rev.
22	Combination cooler/oil section
23	Priority valve
24	Fan motor 15 cm ³
25	Drive motor A6VM 140 EP2
26	Power shift transmission
27	Gear shift valve
28	Gear-type pump 16 cm ³ /rev.
29	Gear-type pump 38 cm ³ /rev.
30	Drive pump A4VG 90 DE2D1
31	Drive motor
32	Gear-type pump 11 cm ³ /rev.
33	Suction strainer
34	Combined suction and return flow filter
35	Electric contamination indicator
36	Hydraulic oil tank
37	Brake central (option)
38	Lamella brake
39	1-way valve
40	Hydraulic swivel restriction (option)
41	4-way valve
42	Lifting height restriction (option)
43	Hydraulic tip lock (option)
44	Control pressure transmitter, working hydraulics
45	Shut-off valve, working hydraulics
46	Shut-off valve, auxiliary hydraulics
47	Control pressure transmitter, auxiliary hydraulics
48	Hydraulic dump restriction (option)
49	Parking brake valve
50	High-pressure transition
51	Unpressurised return line (option)

10.2.2 - 04.2007 Hydraulik-Schaltplan AS 150e (Klauenverriegelung)



X Messanschluss
--- Sonderausstattung

10.2.2 Hydraulic diagram AS 150e (claw lock)

Item	Designation
01	Swivel cylinder DW 100/45/785/1095
02	Supporting valve
03	Leakage-free lock
04	Supporting cylinder EW 60/210/518
05	Reservoir system, pipe break protection (option)
06	Auxiliary hydraulics, external circuit
07	Electrohydraulic interlock for quick-change device
08	Locking cylinder
09	Tip cylinder DW 90/55/540/964
10	Pipe break protection, tip cylinder (option)
11	Combination valve: pipe break protection / lifting device suspension (option)
12	Lift cylinder DW 100/60/704/1146
13	Lowering restriction valve (AKE) (SA)
14	Pipe break protection, lift cylinder (option)
15	lifting device suspension (option)
16	Auxiliary hydraulics, left circuit
17	Steering cylinder front GDW100/50/180
18	Steering cylinder rear GDW100/50/180
19	Steering switching valve
20	Blocking valve (option)
21	Steering unit, 240/100 cm ³ /rev.
22	Combination cooler/oil section
23	Priority valve
24	Fan motor 15 cm ³
25	Drive motor A6VM 140 EP2
26	Power shift transmission
27	Gear shift valve
28	Gear-type pump 16 cm ³ /rev.
29	Gear-type pump 38 cm ³ /rev.
30	Drive pump A4VG 90 DE2D1
31	Drive motor
32	Gear-type pump 11 cm ³ /rev.
33	Suction strainer
34	Combined suction and return flow filter
35	Electric contamination indicator
36	Hydraulic oil tank
37	Brake central (option)
38	Lamella brake
39	1-way valve
40	Hydraulic swivel restriction (SA)
41	4-way valve
42	Lifting height restriction (option)
43	Hydraulic tip lock (option)
44	Control pressure transmitter, working hydraulics
45	Shut-off valve, working hydraulics
46	Shut-off valve, auxiliary hydraulics
47	Control pressure transmitter, auxiliary hydraulics
48	Hydraulic dump restriction (option)
49	Parking brake valve
50	High-pressure transition
51	Unpressurised return line (option)

