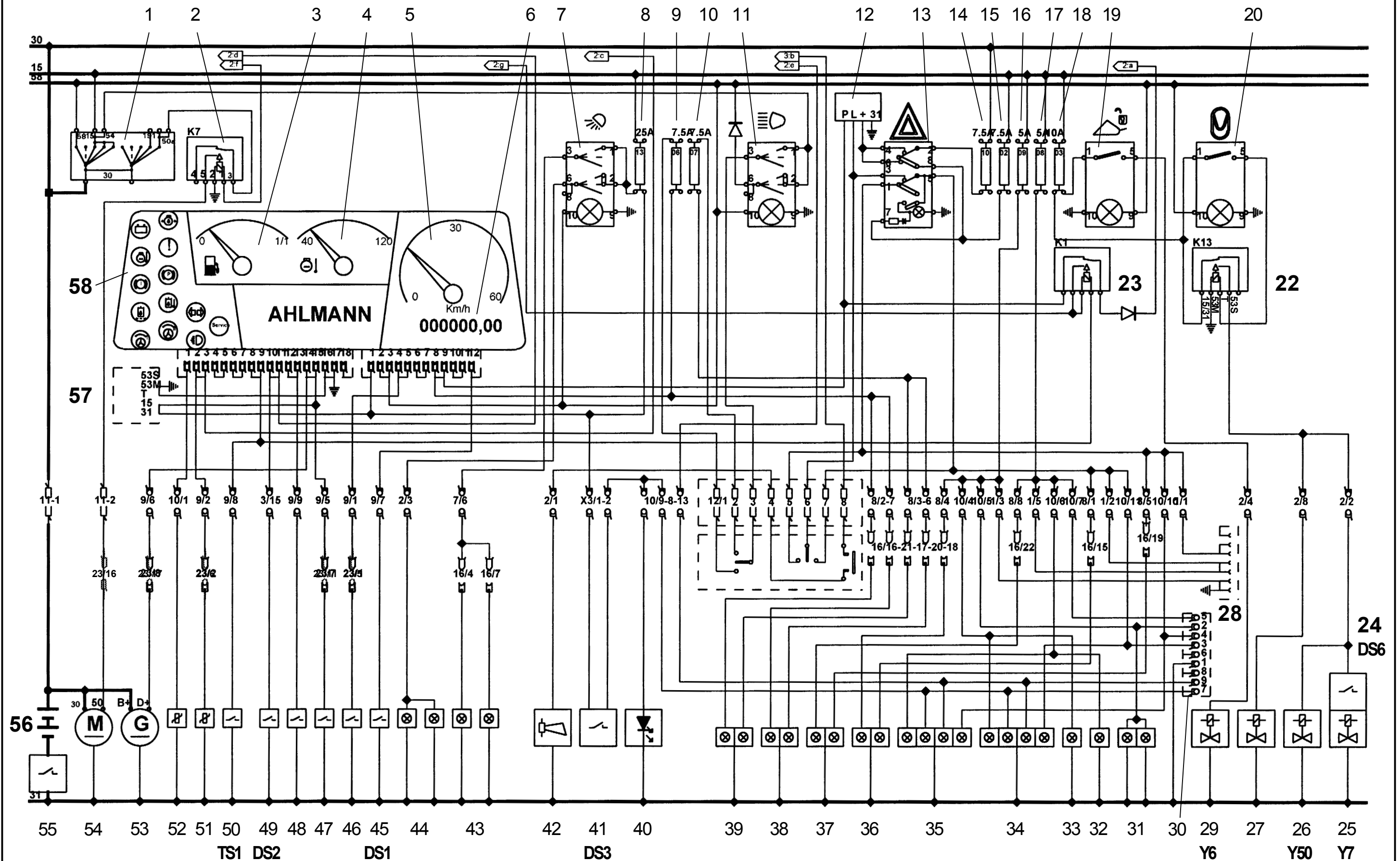
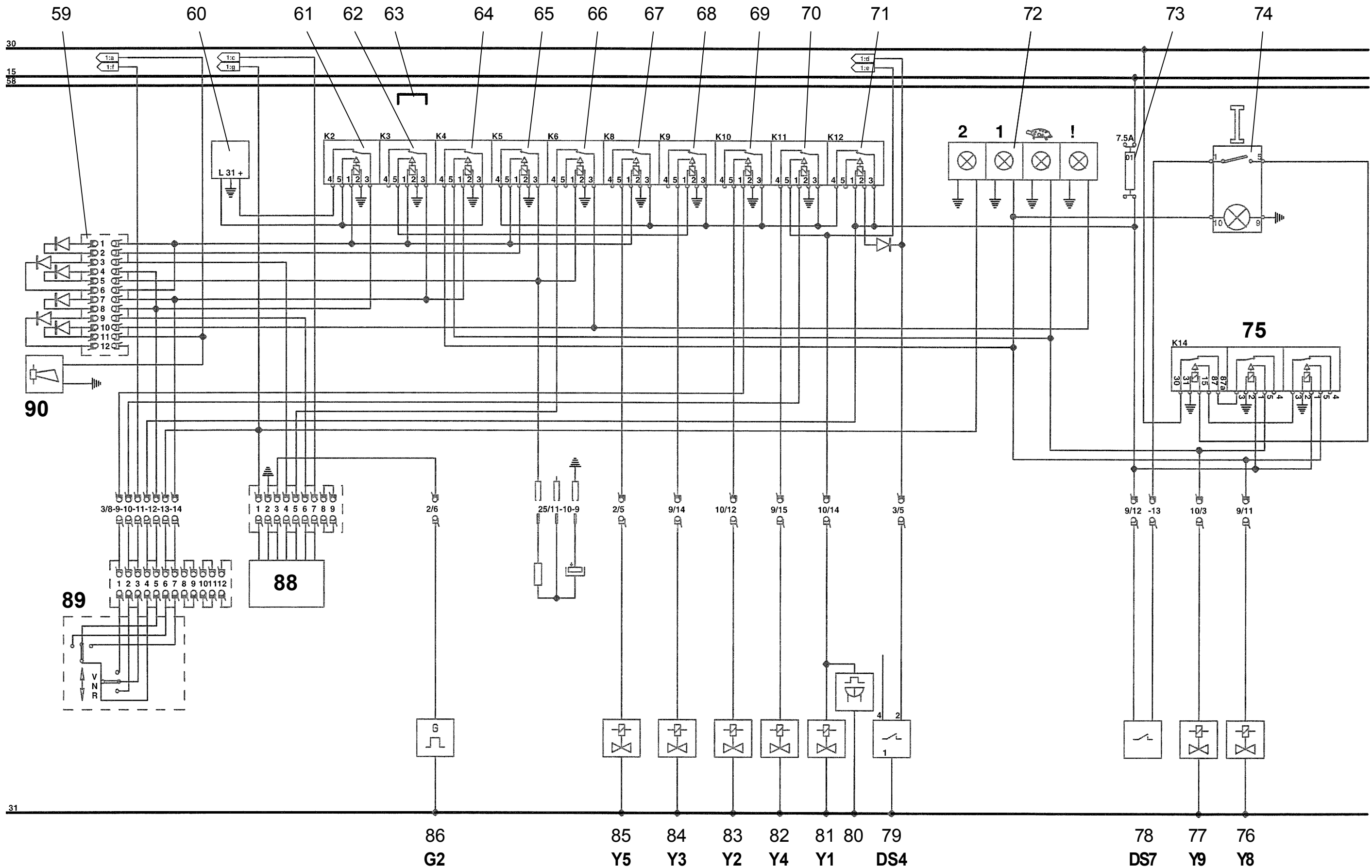


Wiring and Hydraulics







10.1 Wiring Diagram**Pos. Name**

01	Starter button
02	Relay: Starter cut-out
03	Fuel fill-level display
04	Cooling water temperature display
05	Tachometer
06	Operating hour counter
07	Actuator: Working floodlights
08	Fuse (Chapter 4.9 Pos. 17/13)
09	Fuse (Chapter 4.9 Pos. 17/6)
10	Fuse (Chapter 4.9 Pos. 17/7)
11	Actuator: StVZO-Beleuchtung
12	Indicator pick-up
13	Actuator: Hazard Warning Lights
14	Fuse (Chapter 4.9 Pos. 17/10)
15	Fuse (Chapter 4.9 Pos. 17/2)
16	Fuse (Chapter 4.9 Pos. 17/9)
17	Fuse (Chapter 4.9 Pos. 17/8)
18	Fuse (Chapter 4.9 Pos. 17/3)
19	Actuator: Quick coupler release
20	Actuator: Loader arm cushioning
21	not used
22	Relay: Loader arm cushioning
23	Relay: Accoustic warning
24	Pressure switch: Overload loader arm cushioning
25	Accumulator valve: Loader arm cushioning
26	Valve: Pipe burst protection/Loader arm cushioning (opt.)
27	Combi-valve
28	Socket 7-pin front
29	Valve: Quick coupler release
30	Adapter for socket 7-pin rear
31	Number plate lighting
32	Marker lamp right
33	Marker lamp left
34	Tail light unit right
35	Tail light unit left
36	Indicator/marker light right
37	Indicator/marker light left
38	Driving light left
39	Driving light right
40	Additional brake light
41	Brake light switch
42	Signal horn
43	Working floodlight back
44	Working floodlight front
45	Switch: Hydraulic oil filter
46	Switch: Cooling water temperature
47	Switch: Oil pressure
48	Switch: Cooling water fill-level
49	Switch: Service brake malfunction
50	Switch: Hydraulic oil temperature
51	Cooling water temperature pick-up
52	Plunge tube pick-up
53	Alternator
54	Starter motor
55	Battery main switch
56	Batteries
57	Service interval pick-up (opt.)
58	Warning indicators

Pos. Name

59	Diode combination (only fast-runners)
60	Pulse generator indicator light unit gear selector
61	Relay gear selector (only fast-runners)
62	Relay gear selector (only fast-runners)
63	Brücke gear selector (only Langsamläufer)
64	Relay gear selector (only fast-runners)
65	Relay gear selector (only fast-runners)
66	Relay gear selector (only fast-runners)
67	Relay gear shift switch
68	Relay 1st gear
69	Relay power control forwards
70	Relay power control reverse
71	Relay drive breaker
72	Indicator light unit gear selector
73	Fuse (Chapter 4.9 Pos. 17/1)
74	Push-button gear shift selector slow/fast (only slow-runners)
75	SchrittschaltRelay (only slow-runners)
76	Valve 1st gear (only slow-runners)
77	Valve 2nd gear (only slow-runners)
78	Switch: Release gear selector (only slow-runners)
79	Switch: Parking brake
80	Reverse warning pick-up
81	Valve reverse travel direction
82	Valve travel direction recognition
83	Valve forward travel direction
84	Valve 1st gear
85	Valve gear shift switch
86	Rev pick-up
87	not used
88	Reevaluator
89	Multi-purpose lever right (Valve pick-up for main hydraulics)
90	Acoustic warning

Pos. Name

91	Interval pick-up
92	Fuse (Chapter 4.9 Pos. 17/11)
93	Acuator interval wipers front
94	Acuator screen washer front
95	Acuator wiper/washer back
96	Acuator rear screen heating
97	Fuse (Chapter 4.9 Pos. 17/5)
98	MaxiFuse (40 A)
99	Fuse (Chapter 4.9 Pos. 17/4)
100	Socket dashboard 2 pin
101	Fuse (Chapter 4.9 Pos. 17/14)
102	Acuator 360° lamp (opt.)
103	Fuse (Chapter 4.9 Pos. 17/12)
104	Valve engine cut-out
105	360° lamp (opt.)
106	Switch interior lighting
107	Interior lighting
108	Radio (opt.)
109	Pressure switch (filter air-conditioning)
110	compressor (air-conditioning)
111	Fan motor (air-conditioning)
112	Air-conditioning (opt.)
113	Transformer radio
114	Heated mirror right (opt.)
115	Heated mirror left (opt.)
116	Rear screen heating
117	Motor wiper back
118	Motor washer back
119	Motor washer front
120	Motor wiper front

Opt. =Optional equipment

**NOTE**

The item nos. printed in bold type in the wiring diagram are cross-references to the interface in the hydraulics plan.

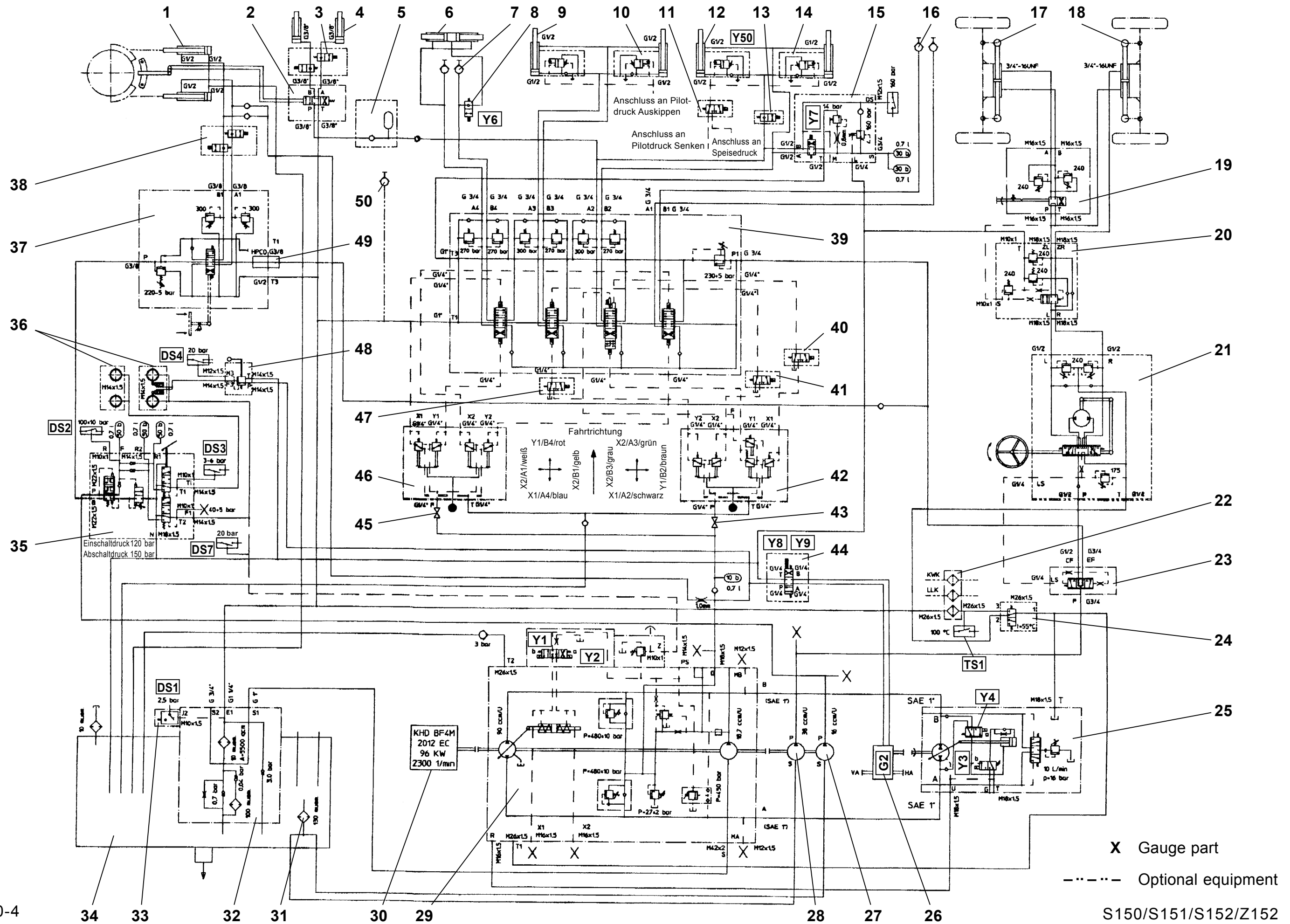
MaxiFuse wechseln (Pos. 98):

Should it be necessary to change the fuse for the air-conditioning system, the dash board cover must be removed first.

**NOTE**

After removing the dash board cover, the fuse is accessible in the front area near the front screen.

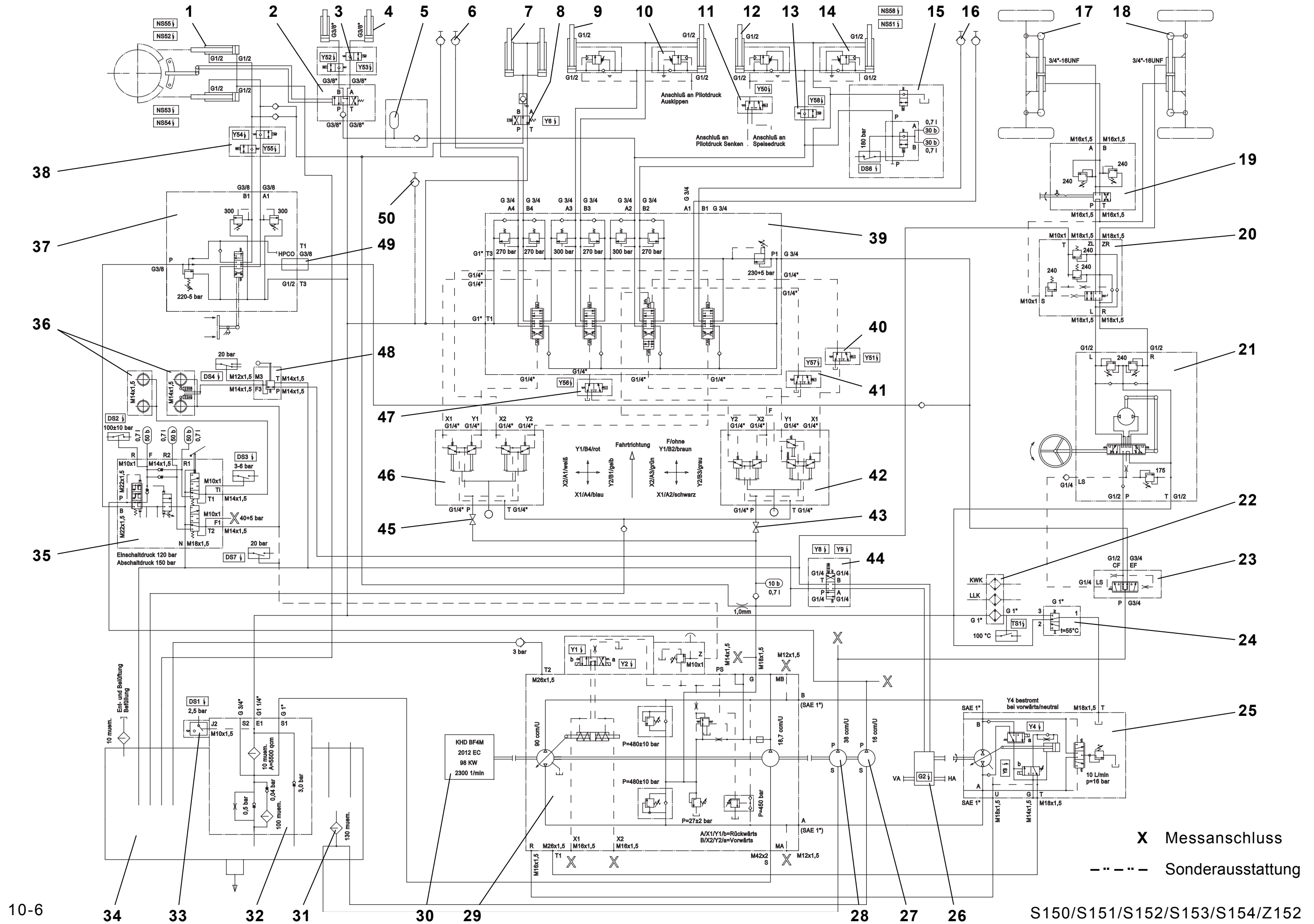
10.2.1 - 04.2001 Hydraulics Diagram AS 150 (bolt lock) Type "20 km/h" and "25 km/h"



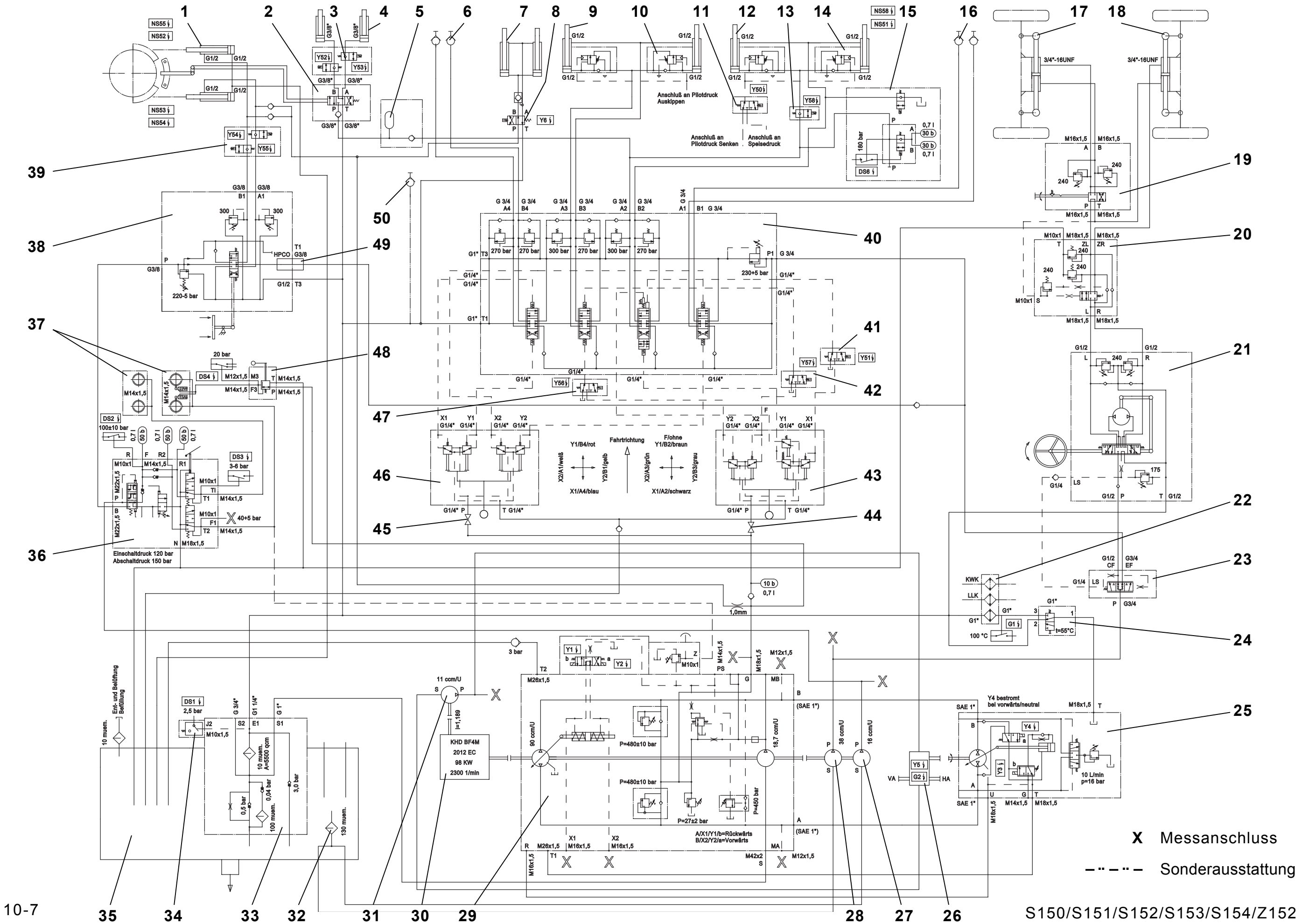
10.2.2 - 04.2001 Hydraulics Diagram AS 150 (bolt lock) Type "40 km/h"



10.2.3 - 01.2006 Hydraulics Diagram AS 150 (claw lock) Type "20 km/h"



10.2.4 - 01.2006 Hydraulics Diagram AS 150 (claw lock) Type "40 km/h"



10.2 Hydraulics Diagram

10.2.1 Hydraulics Diagram AS 150 (bolt lock) Type "20 km/h" and "25 km/h"

Pos.	Name
------	------

01	Swivel cylinder DW 100/45/785/1095
02	Actuator support
03	Leak free lock
04	Support cylinder EW 60/210/518
05	Storage facility pipe burst protection (opt.)
06	Locking cylinder DW 80/60/377
07	Auxiliary hydraulics right circuit
08	Electro-hydraulic lock quick coupler
09	Tilt cylinder DW 90/55/540/964
10	Pipe burst protection tilt cylinder (opt.)
11	Combination valve RBS/HWF (SA)
12	Lift cylinder DW 100/60/704/1146
13	Drop limiter valve (AKE) (opt.)
14	Pipe burst protection lift cylinder (SA)
15	Loader arm cushioning (SA)
16	Auxiliary hydraulics left circuit
17	Steering cylinder back GDW100/50/180
18	Steering cylinder front GDW100/50/180
19	Steering mode switch valve
20	Blocking valve (opt.)
21	Steering unit 240/100 cm³/U
22	Combi-cooler/oil side
23	Priority valve
24	Temperature control (55°C) (opt.)
25	Drive motor A6VM 107 HA1R2
26	Idle gear
27	Cam pump 16 cm³/U
28	Cam pump 38 cm³/U
29	Drive pump A4VG 90 DA2D8
30	Drive motor
31	Suction filter
32	Combined suction return filter
33	Electrical contamination display
34	Hydraulic oil reservoir
35	Central braking unit (opt.)
36	Multiple disk brake
37	Directional control valve 1-way
38	Hydraulic swivel limiter (opt.)
39	Directional control valve 4-way
40	Lift height limiter (opt.)
41	Hydraulic tilt inhibitor (opt.)
42	Pilot pressure initiator main hydraulics
43	Stop valve main hydraulics
44	Hydraulic gear change
45	Stop valve auxiliary hydraulics
46	Pilot pressure initiator auxiliary hydraulics
47	Hydraulic tilt inhibitor (opt.)
48	Parking brake valve
49	Pressure cross over
50	Pressureless return circuit (opt.)

10.2.2 Hydraulics Diagram AS 150 (bolt lock) Type "40 km/h"**Pos. Name**

01	Swivel cylinder DW 100/45/785/1095
02	Actuator support
03	Leak free lock
04	Support cylinder EW 60/210/518
05	Storage facility pipe burst protection (opt.)
06	Locking cylinder DW 80/60/377
07	Auxiliary hydraulics right circuit
08	Electro-hydraulic lock quick coupler
09	Tilt cylinder DW 90/55/540/964
10	Pipe burst protection tilt cylinder (SA)
11	Combination valve RBS/HWF (SA)
12	Lift cylinder DW 100/60/704/1146
13	Drop limiter valve (AKE) (SA)
14	Pipe burst protection lift cylinder (SA)
15	Loader arm cushioning (SA)
16	Auxiliary hydraulics left circuit
17	Steering cylinder back GDW100/50/180
18	Steering cylinder front GDW100/50/180
19	Steering mode switch valve
20	Blocking valve (opt.)
21	Steering unit 240/100 cm³/U
22	Combi-cooler/oil side
23	Priority valve
24	Temperature control (55°C) (opt.)
25	Drive motor A6VM 107 HA1R2
26	Load switchgear
27	Cam pump 16 cm³/U
28	Cam pump 38 cm³/U
29	Drive pump A4VG 90 DA2D8
30	Drive motor
31	Cam pump 11 cm³/U
32	Suction filter
33	Combined suction return filter
34	Elektrical contamination display
35	Hydraulic oil reservoir
36	Central braking unit (opt.)
37	Multiple disk brake
38	Directional control valve 1-way
39	Hydraulic swivel limiter (opt.)
40	Directional control valve 4-way
41	Lift height limiter (opt.)
42	Hydraulic tilt limiter (opt.)
43	Pilot pressure initiator main hydraulics
44	Stop valve main hydraulics
45	Stop valve auxiliary hydraulics
46	Pilot pressure initiator auxiliary hydraulics
47	Hydraulic tilt limiter (SA)
48	Parking brake valve
49	High pressure crossover circuit
50	Pressureless return circuit (opt.)

10.2.3 Hydraulics Diagram AS 150 (claw lock) Type "20 km/h"**Pos. Name**

01	Swivel cylinder DW 100/45/785/1095
02	Actuator support
03	Leak free lock
04	Support cylinder EW 60/210/518
05	Storage facility pipe burst protection (opt.)
06	Auxiliary hydraulics right circuit
07	Locking cylinder GDW 63/40/70/382
08	Electro-hydraulic lock quick coupler
09	Tilt cylinder DW 90/55/540/964
10	Pipe burst protection tilt cylinder (SA)
11	Combination valve RBS/HWF (SA)
12	Lift cylinder DW 100/60/704/1146
13	Drop limiter valve (AKE) (SA)
14	Pipe burst protection lift cylinder (SA)
15	Loader arm cushioning (SA)
16	Auxiliary hydraulics left circuit
17	Steering cylinder back GDW100/50/180
18	Steering cylinder front GDW100/50/180
19	Steering mode switch valve
20	Blocking valve (opt.)
21	Steering unit 240/100 cm ³ /U
22	Combi-cooler/oil side
23	Priority valve
24	Temperature control (55°C) (opt.)
25	Drive motor A6VM 107 HA1R2
26	Idle gear
27	Cam pump 16 cm ³ /U
28	Cam pump 38 cm ³ /U
29	Drive pump A4VG 90 DA2D8
30	Drive motor
31	Suction filter
32	Combined suction return filter
33	Elektrical contamination display
34	Hydraulic oil reservoir
35	Central braking unit (opt.)
36	Multiple disk brake
37	Directional control valve 1-way
38	Hydraulic swivel limiter (opt.)
39	Directional control valve 4-way
40	Lift height limiter (opt.)
41	Hydraulic tilt limiter (opt.)
42	Pilot pressure initiator main hydraulics
43	Stop valve main hydraulics
44	Hydraulic gear shift
45	Stop valve auxiliary hydraulics
46	Pilot pressure initiator auxiliary hydraulics
47	Hydraulic tilt limiter (SA)
48	Parking brake valve
49	High pressure crossover circuit
50	Pressureless return circuit (opt.)

10.2.4 Hydraulics Diagram AS 150 (claw lock) Type "40 km/h"**Pos. Name**

01	Swivel cylinder DW 100/45/785/1095
02	Actuator support
03	Leak free lock
04	Support cylinder EW 60/210/518
05	Storage facility pipe burst protection (opt.)
06	Auxiliary hydraulics right circuit
07	Locking cylinder GDW 63/40/70/382
08	Electro-hydraulic lock quick coupler
09	Tilt cylinder DW 90/55/540/964
10	Pipe burst protection tilt cylinder (SA)
11	Combination valve RBS/HWF (SA)
12	Lift cylinder DW 100/60/704/1146
13	Drop limiter valve (AKE) (SA)
14	Pipe burst protection lift cylinder (SA)
15	Loader arm cushioning (SA)
16	Auxiliary hydraulics left circuit
17	Steering cylinder back GDW100/50/180
18	Steering cylinder front GDW100/50/180
19	Steering mode switch valve
20	Blocking valve (opt.)
21	Steering unit 240/100 cm ³ /U
22	Combi-cooler/oil side
23	Priority valve
24	Temperature control (55°C) (opt.)
25	Drive motor A6VM 107 HA1R2
26	Load switchgear
27	Cam pump 16 cm ³ /U
28	Cam pump 38 cm ³ /U
29	Drive pump A4VG 90 DA2D8
30	Drive motor
31	Cam pump 11 cm ³ /U
32	Suction filter
33	Combined suction return filter
34	Elektrical contamination display
35	Hydraulic oil reservoir
36	Central braking unit (opt.)
37	Multiple disk brake
38	Directional control valve 1-way
39	Hydraulic swivel limiter (opt.)
40	Directional control valve 4-way
41	Lift height limiter (opt.)
42	Hydraulic tilt limiter (opt.)
43	Pilot pressure initiator main hydraulics
44	Stop valve main hydraulics
45	Stop valve auxiliary hydraulics
46	Pilot pressure initiator auxiliary hydraulics
47	Hydraulic tilt limiter (SA)
48	Parking brake valve
49	High pressure crossover circuit
50	Pressureless return circuit (opt.)