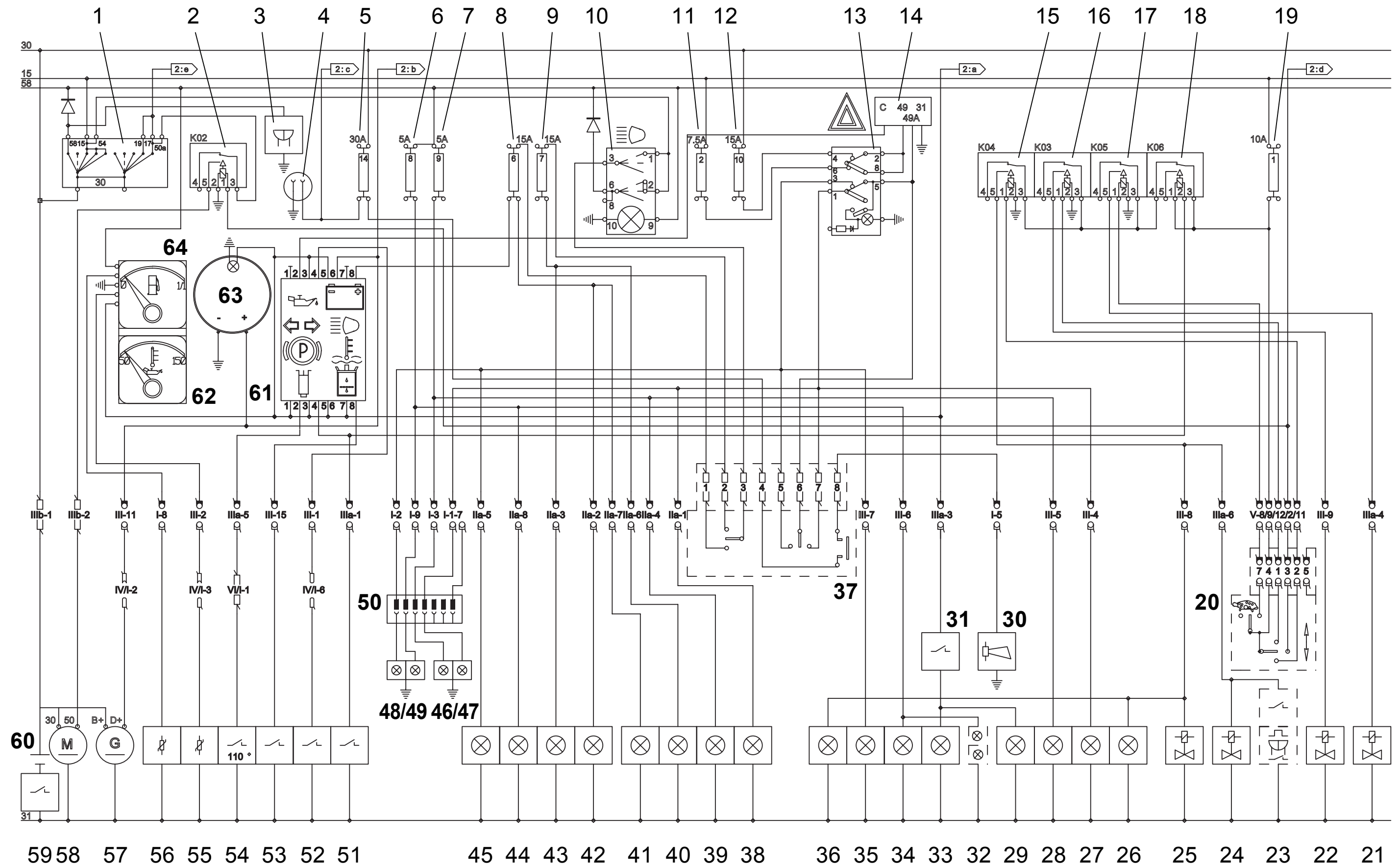
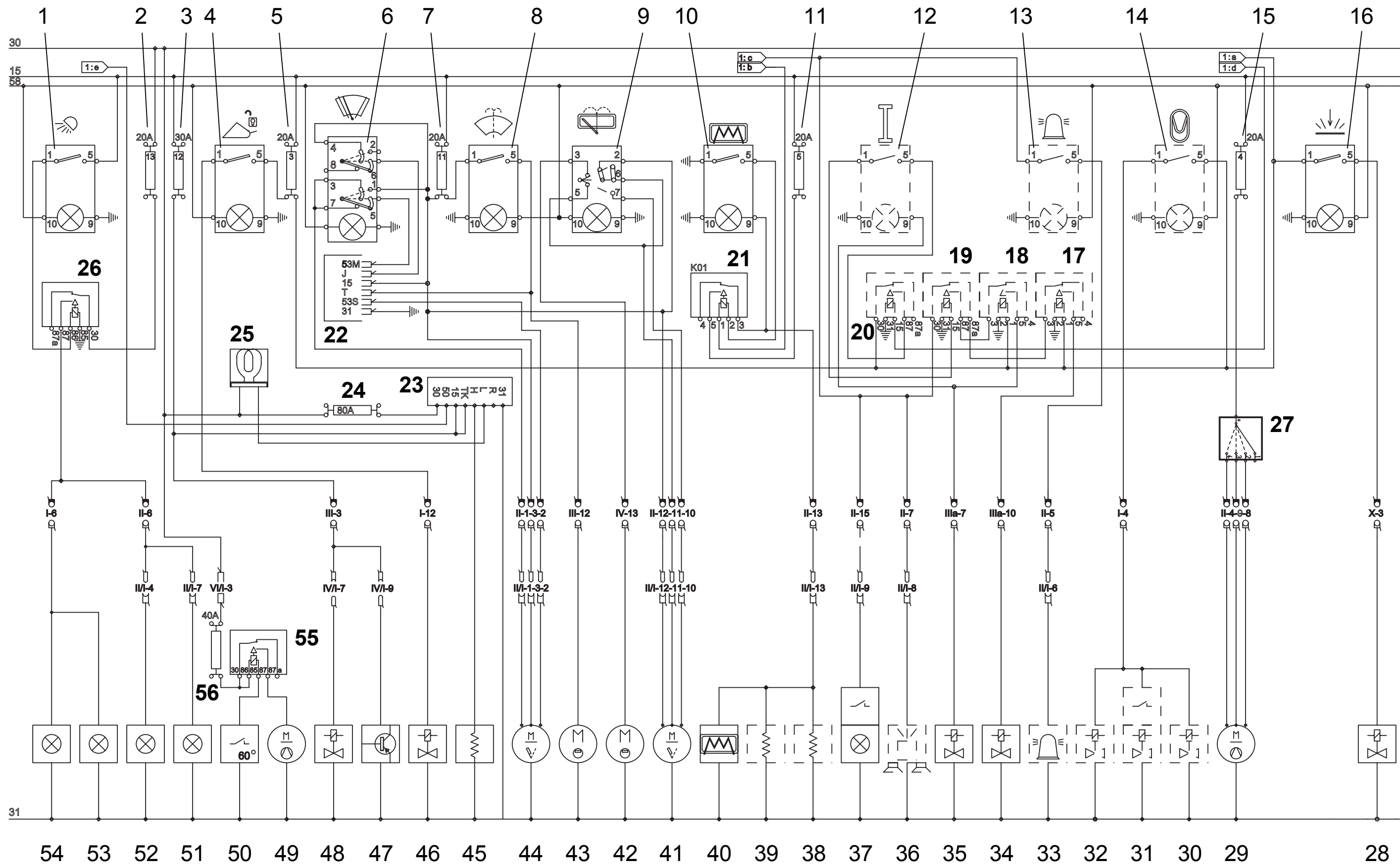


Wiring and Hydraulics

**10.1 - 09.08 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/EI-oversigt/
Diagrama de conexiones eléctricas/Sähkökytkentäkaavio/Elektrisk koblingsskema/EI-kopplingsschema**



**10.1 - 09.08 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/El-oversigt/
Diagrama de conexiones eléctricas/Sähkökytkentäkaavio/Elektrisk koblingsskjema/El-kopplingsschema**



10.1 Wiring diagram

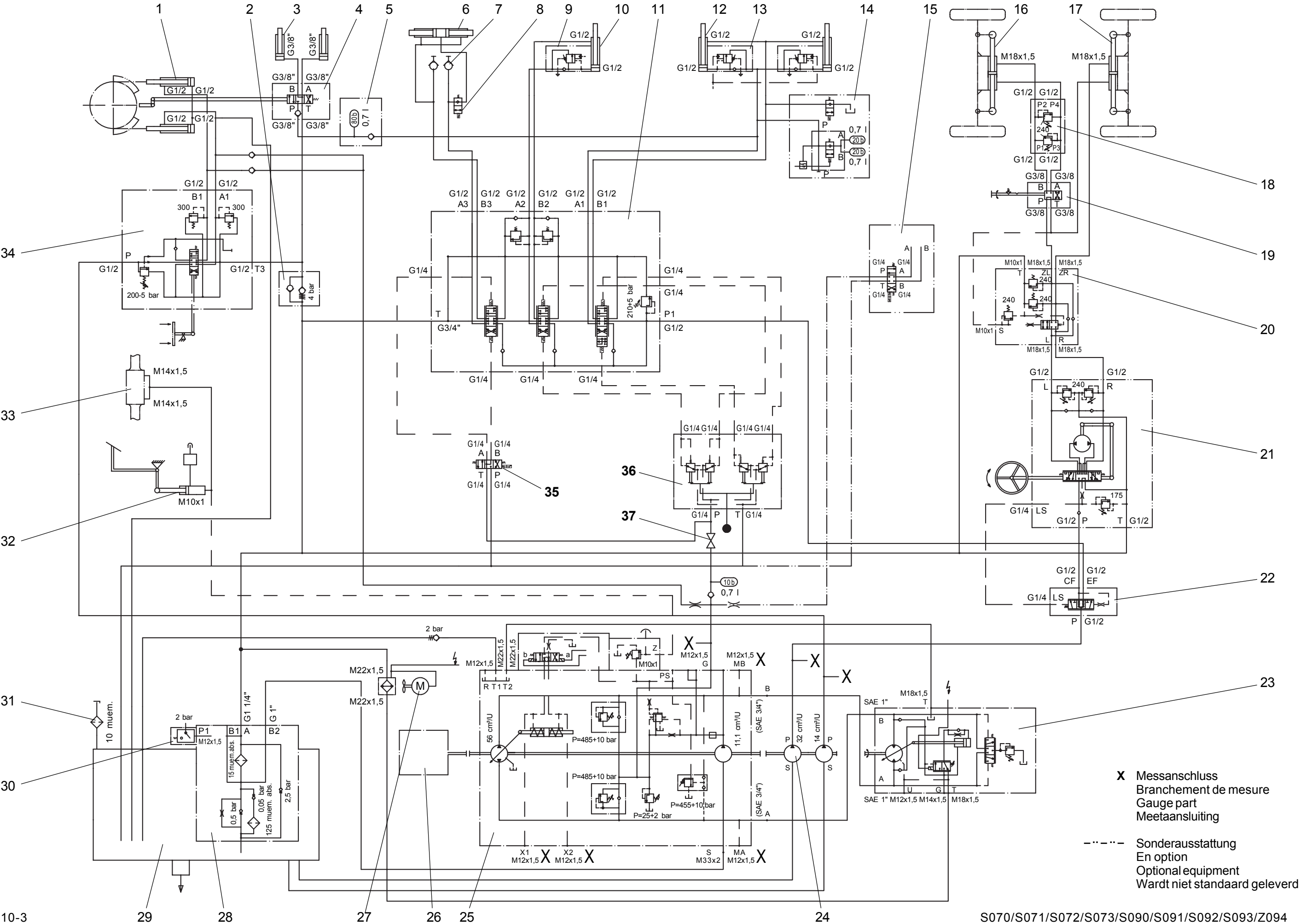
Item	Designation	Item	Designation
1-2/01	Starter switch	1-2/54	Switch, hydraulic oil temperature
1-2/02	Start blocking relay	1-2/55	Engine oil pressure sensor
1-2/03	Parking light warning buzzer	1-2/56	Immersion tube sensor
1-2/04	Socket on instrument panel	1-2/57	Generator
1-2/05	Fuse (chapter 2.2, item 14)	1-2/58	Starter motor
1-2/06	Fuse (chapter 2.2, item 8)	1-2/59	Battery main switch
1-2/07	Fuse (chapter 2.2, item 9)	1-2/60	Battery
1-2/08	Fuse (chapter 2.2, item 6)	1-2/61	Indicator light unit
1-2/09	Fuse (chapter 2.2, item 7)	1-2/63	Operating hour meter
1-2/10	Switch for driving lights required by German traffic regulations	1-2/62	Engine oil temperature display
1-2/11	Fuse (chapter 2.2, item 2)	1-2/64	Fuel level display
1-2/12	Fuse (chapter 2.2, item 10)		
1-2/13	Hazard flasher light switch		
1-2/14	Flasher transmitter		
1-2/15	Relay for performance adaptation, backwards		
1-2/16	Relay for performance adaptation, forwards		
1-2/17	Relay for performance adaptation, fast/slow		
1-2/18	Drive cut-off relay		
1-2/19	Fuse (chapter 2.2, item 1)		
1-2/20	Activation of: fast/slow driving stages, forwards/backwards		
1-2/21	Valve, slow/fast driving speed		
1-2/22	Valve, forward drive direction		
1-2/23	Reversing warning indicator (opt.)		
1-2/24	Valve, reverse drive direction		
1-2/25	Valve, determination of direction (opt.)		
1-2/26	Reversing light, right		
1-2/27	Turn indicator light, rear right		
1-2/28	Rear light, right		
1-2/29	Brake light, right		
1-2/30	Horn		
1-2/31	Brake light switch		
1-2/32	License plate illumination (opt.)		
1-2/33	Brake light, left		
1-2/34	Rear light, left		
1-2/35	Turn indicator light, rear left		
1-2/36	Reversing light, left		
1-2/37	Steering column switch		
1-2/38	Turn indicator light, front right		
1-2/39	Parking light, right		
1-2/40	Dipped beam, right		
1-2/41	High beam, right		
1-2/42	High beam, left		
1-2/43	Dipped beam, left		
1-2/44	Parking light, left		
1-2/45	Turn indicator light, front left		
Bucket protection:			
1-2/46	Turn indicator, right		
1-2/47	Contour light, right		
1-2/48	Contour light, left		
1-2/49	Turn indicator, left		
1-2/50	Socket, 7-pin		
1-2/51	Parking brake switch		
1-2/52	Switch, engine oil pressure		
1-2/53	Switch, hydraulic oil filter		

Item Designation

2-2/01	Activation of working lights
2-2/02	Fuse (chapter 2.2, item 13)
2-2/03	Fuse (chapter 2.2, item 12)
2-2/04	Activation of release for quick-change device
2-2/05	Fuse (chapter 2.2, item 3)
2-2/06	Activation of front interval wiper
2-2/07	Fuse (chapter 2.2, item 11)
2-2/08	Activation of front washer
2-2/09	Activation of rear wiper/washer
2-2/10	Activation of rear window heater
2-2/11	Fuse (chapter 2.2, item 5)
2-2/12	Activation of switch gear (opt.)
2-2/13	Activation of beacon light (opt.)
2-2/14	Activation of lifting device suspension
2-2/15	Fuse (chapter 2.2 item 4)
2-2/16	Activation of permanent operation of auxiliary hydraulics (opt.)
2-2/17	Micro relay 2nd gear (opt)
2-2/18	Micro relay 1st gear (opt)
2-2/19	Gear shift impulse relay (opt)
2-2/20	Gear shift timer relay (opt)
2-2/21	Relay, rear window heater
2-2/22	Interval transmitter
2-2/23	Glow start controller
2-2/24	Fuse (glow start controller)
2-2/25	Indicator for glow start controller
2-2/26	Relay for working lights
2-2/27	Activation of ventilation/fan
2-2/28	Valve, permanent operation of auxiliary hydraulics (opt.)
2-2/29	Fan motor, heating
2-2/30	Reservoir valve, lifting device suspension
2-2/31	Reservoir valve, lifting device suspension
2-2/32	Combination valve: pipe break protection / lifting device suspension (opt)
2-2/33	Beacon light (opt.)
2-2/34	Valve, gear stage 2 (opt.)
2-2/35	Valve, gear stage 1 (opt.)
2-2/36	Radio (opt.)
2-2/37	Interior lights
2-2/38	Heatable rearview mirror, right (opt.)
2-2/39	Heatable rearview mirror, left (opt.)
2-2/40	Rear window heater
2-2/41	Motor, rear wiper
2-2/42	Motor, rear washer
2-2/43	Motor, front washer
2-2/44	Motor, front wiper
2-2/45	Glow plug
2-2/46	Valve, release for quick-change device
2-2/47	Exhaust gas recirculation
2-2/48	Valve, engine switch-off
2-2/49	Ventilation motor, oil cooler
2-2/50	Temperature switch, oil cooler
2-2/51	Working light, rear left
2-2/52	Working light, rear right
2-2/53	Working light, front left
2-2/54	Working light, front right
2-2/55	Relay, oil cooler
2-2/56	Fuse (oil cooler)

opt. = optional equipment

10.2.2 - 09.2008 Hydraulischschaltplan/Schéma hydraulique/Hydraulisch schakelschema/Hydraulic circuit diagram/Hydraulikoversigt/Plano de conexiones hidráulicas/
Hydraulisk koblingsskjema/Hydraulik kopplingsschema AS 90 / AZ 85t



10.2 Hydraulic circuit diagram

10.2.2 Hydraulic circuit diagram AS 90

Item Designation

- 01 Swivel cylinder DW 100/50/620/960
- 02 Servo pressure valve (option)
- 03 Supporting cylinder EW 50/145/438
- 04 Supporting valve
- 05 Reservoir system, pipe break protection (option)
- 06 Locking cylinder DW 63/50/274
- 07 Auxiliary hydraulics, external circuit
- 08 Electrical locking device
- 09 Pipe break protection, tilt cylinder (option)
- 10 Tilt cylinder DW 100/50/465/783
- 11 4-way valve
- 12 Lift cylinder DW 90/50/555/857
- 13 Pipe break protection, lift cylinder (option)
- 14 Lifting device suspension
- 15 Gear shift (fast loader)
- 16 Steering cylinder, front
- 17 Steering cylinder, rear
- 18 Double shock valve
- 19 Steering switching valve
- 20 Blocking valve (option)
- 21 Steering unit, 200/100 cm³/rev.
- 22 Priority valve
- 23 Drive motor A6VM 107 HA
- 24 Gear-type pump, (32 + 14) cm³/rev.
- 25 Drive pump A4VG 56 DA
- 26 Drive motor KHD TD 2011L04I
- 27 Hydraulic oil cooler with electric fan
- 28 Suction and return flow filter
- 29 Hydraulic oil tank
- 30 Electric contamination indicator
- 31 Filling/ventilation filter
- 32 Stepped main brake cylinder
- 33 Lamella brake
- 34 1-way valve
- 35 Valve, auxiliary hydraulics
- 36 Control pressure transmitter, working hydraulics
- 37 Shut-off valve, working hydraulics