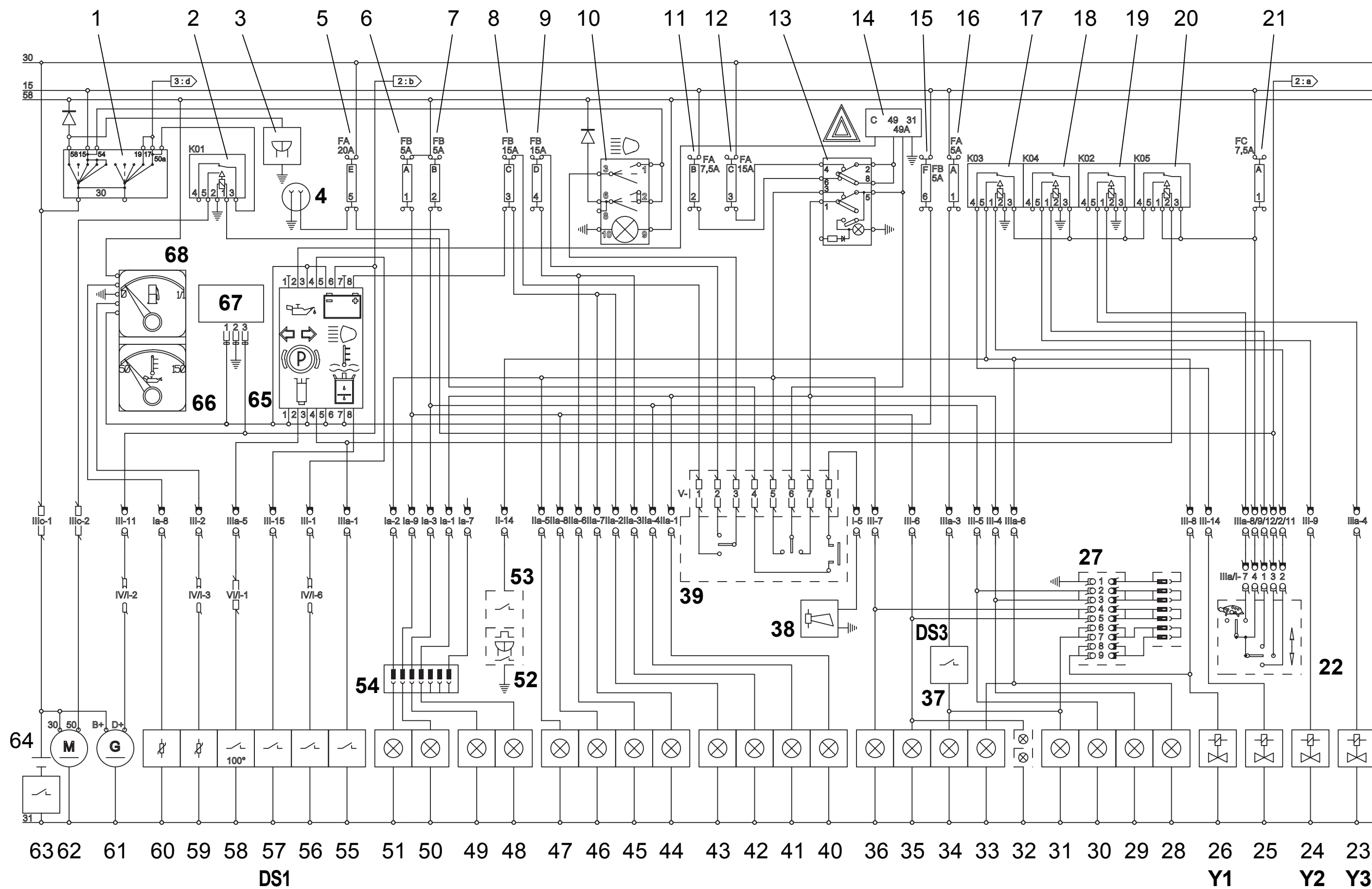
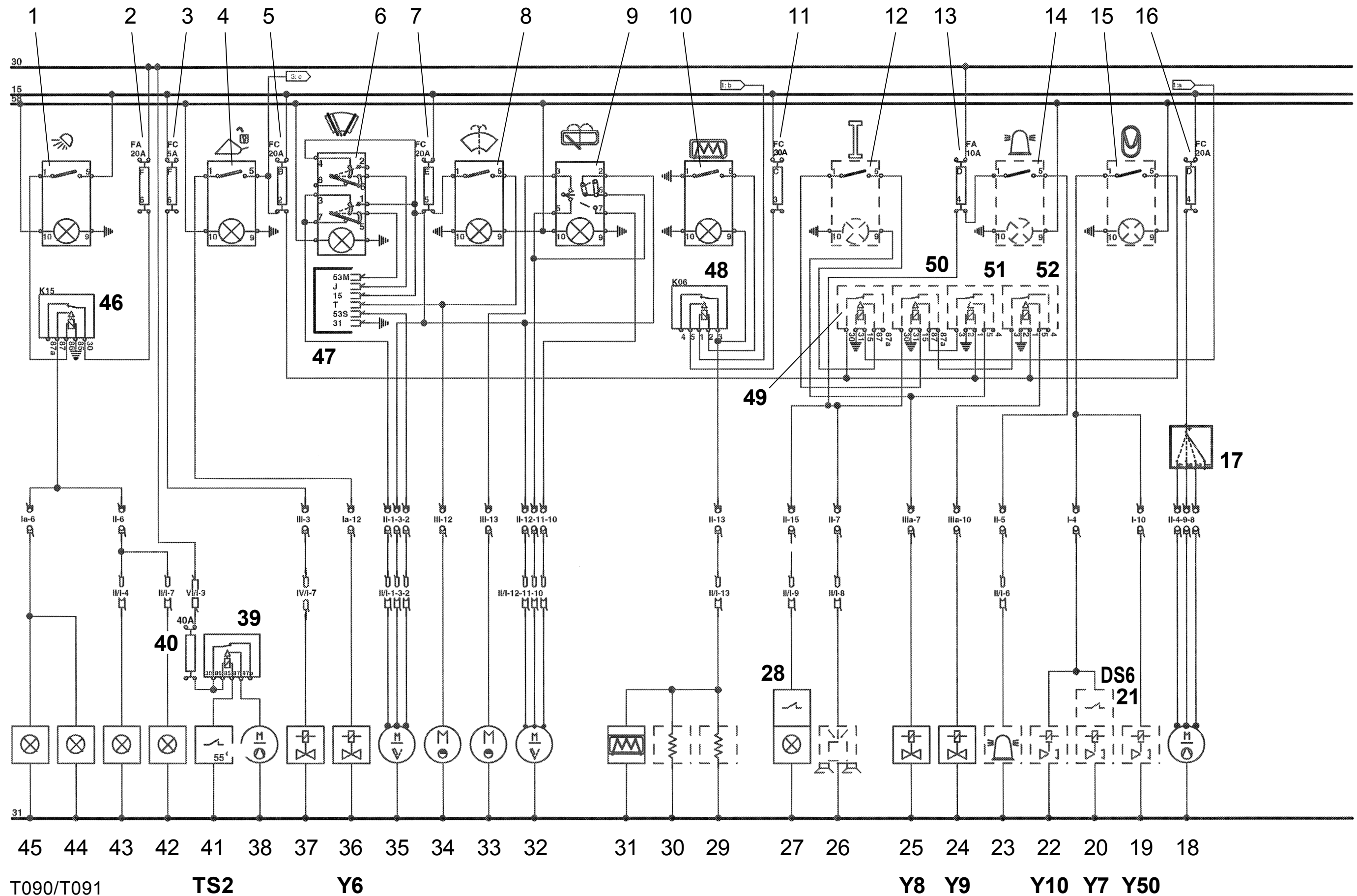


Wiring diagrams

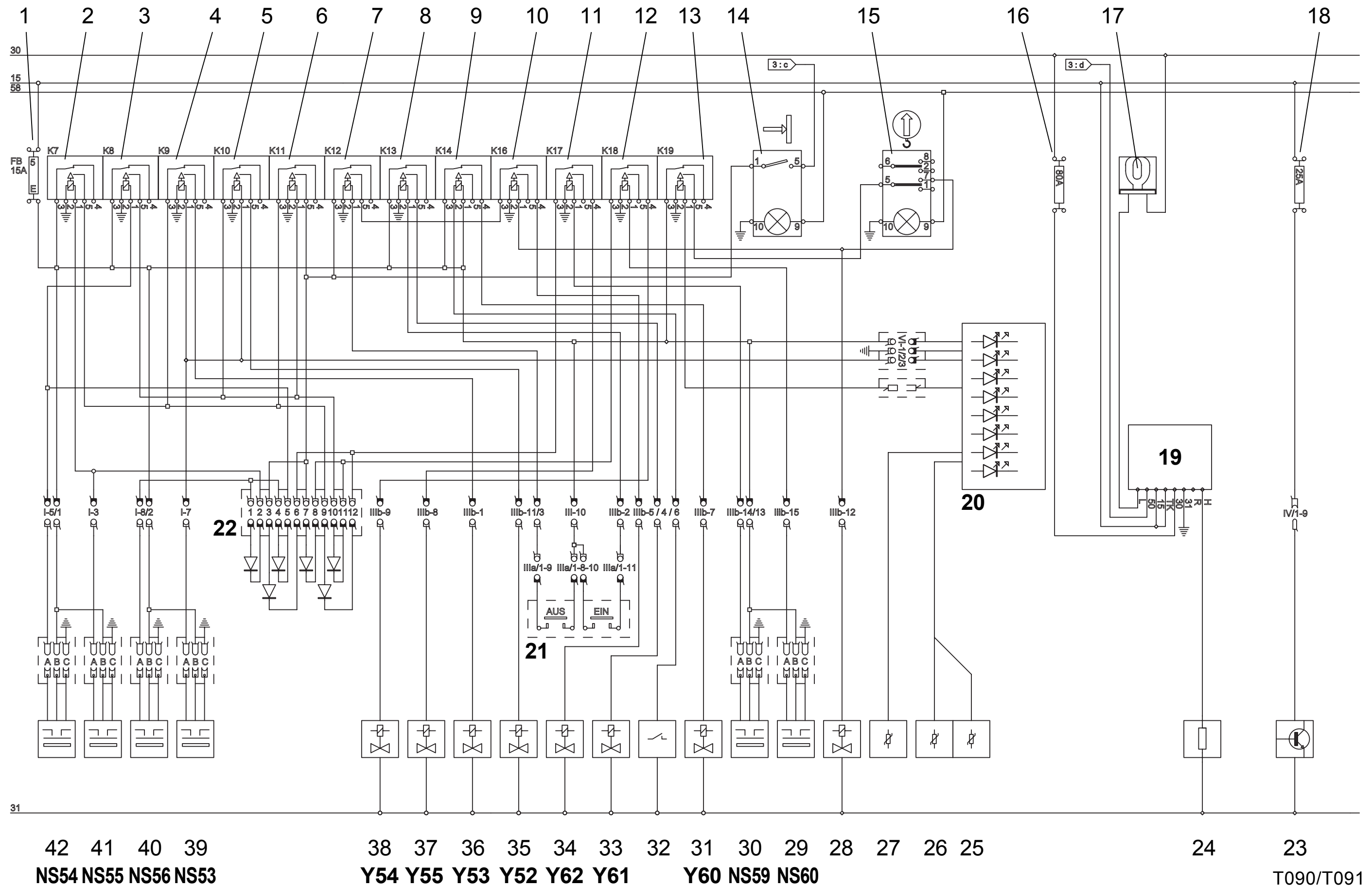
10.1 - 10.08 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/Elektriskt kopplingsschema



10.1 - 05.03 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/Elektriskt kopplingschema



10.1 - 10.08 Elektrik-Schaltplan/Schéma électrique/Wiring diagramm/Elektrisch schakelschema/Elektriskt kopplingschema



10.1 Electric wiring diagram

Sheet/ Item	Designation	Sheet/ Item	Designation
1-3/01	Start switch	1-3/52	Reversing warning buzzer (option)
1-3/02	Starter interlock relay (K01)	1-3/53	Reversing warning buzzer switch (option)
1-3/03	Parking light buzzer	1-3/54	7-pole socket
1-3/04	Dashboard socket	1-3/55	Parking brake switch
1-3/05	Fuse (socket, signal horn)	1-3/56	Engine oil pressure switch
1-3/06	Fuse (right parking light, left tail light)	1-3/57	Hydraulic oil filter switch
1-3/07	Fuse (left parking light, right tail light)	1-3/58	Hydraulic oil temperature switch, 110°
1-3/08	Fuse (high beam)	1-3/59	Motor oil temperature sensor
1-3/09	Fuse (low beam)	1-3/60	Dip pipe sensor
1-3/10	Actuator for road lights	1-3/61	Alternator
1-3/11	Fuse (turn signal)	1-3/62	Starter
1-3/12	Fuse (hazard flasher)	1-3/63	Battery main switch
1-3/13	Actuator for hazard flasher	1-3/64	Battery
1-3/14	Turn signal relay	1-3/65	Control lamp assembly
1-3/15	Fuse (instrument lighting)	1-3/66	Engine oil temperature gauge
1-3/16	Fuse (brake light)	1-3/67	Operating hours meter
1-3/17	Relay for power adaptation, reverse (K03)	1-3/68	Fuel gauge
1-3/18	Relay for power adaptation, forward (K04)		
1-3/19	Relay for power adaptation, fast/slow (K02)		
1-3/20	Traction drive cut-out relay (K05)		
1-3/21	Fuse (traction drive)		
1-3/22	Actuator		
	Drive stages fast/slow		
	Travel direction forward/reverse		
1-3/23	Fast/slow speed valve		
1-3/24	Valve, forward drive direction		
1-3/25	Direction detection valve (only for fast loaders)		
1-3/26	Valve, reverse drive direction		
1-3/27	Rear socket		
1-3/28	Reversing light, right		
1-3/29	Turn signal, rear right		
1-3/30	Tail light, right		
1-3/31	Brake light, right		
1-3/32	License plate illumination (option)		
1-3/33	Reversing light, left		
1-3/34	Brake light, left		
1-3/35	Tail light, left		
1-3/36	Turn signal, rear left		
1-3/37	Brake light switch		
1-3/38	Signal horn		
1-3/39	Steering column switch		
1-3/40	Turn signal, front right		
1-3/41	Parking light, right		
1-3/42	Low beam, right		
1-3/43	High beam, right		
1-3/44	High beam, left		
1-3/45	Low beam, left		
1-3/46	Parking light, left		
1-3/47	Turn signal, front left		
Bucket protection:			
1-3/48	Turn signal, right		
1-3/49	Side lamp, right		
1-3/50	Side lamp, left		
1-3/51	Turn signal, left		

Sheet/Item Designation

2-3/01	Actuator, working lights
2-3/02	Fuse (working lights)
2-3/03	Fuse (engine shut-off)
2-3/04	Actuator for quick-change device release
2-3/05	Fuse (hydraulics)
2-3/06	Actuator for interval windshield wiper, front
2-3/07	Fuse (window wiper/washer)
2-3/08	Actuator for windshield washer, front
2-3/09	Actuator for window wiper/washer, rear
2-3/10	Actuator for rear window heater
2-3/11	Fuse (rear window heater)
2-3/12	Actuator for gear shift (only for fast loaders)
2-3/13	Fuse (warning beacon, radio, interior lighting)
2-3/14	Actuator for warning beacon (option)
2-3/15	Actuator for lifting device suspension (option)
2-3/16	Fuse (fan/blower)
2-3/17	Actuator for fan/blower
2-3/18	Heater fan motor
2-3/19	Combination valve: pipe break protection / lifting device suspension (option)
2-3/20	Memory valve, lifting device suspension (option)
2-3/21	Pressure switch, lifting device suspension (option)
2-3/22	Reservoir valve, lifting device suspension (option)
2-3/23	Warning beacon (option)
2-3/24	Valve for 2nd gear (only for fast loaders)
2-3/25	Valve for 1st gear (only for fast loaders)
2-3/26	Radio (option)
2-3/27	Interior lighting
2-3/28	Interior lighting switch
2-3/29	Heatable outside mirror, right (option)
2-3/30	Heatable outside mirror, left (option)
2-3/31	Rear window heater
2-3/32	Wiper motor, rear
2-3/33	Window washer motor, rear
2-3/34	Window washer motor, front
2-3/35	Wiper motor, front
2-3/36	Quick-change device release valve
2-3/37	Engine shut-off valve
2-3/38	Oil cooler fan motor
2-3/39	Relay (oil cooler)
2-3/40	Fuse (oil cooler)
2-3/41	Oil cooler thermostat 55°
2-3/42	Working lights, rear left
2-3/43	Working lights, rear right
2-3/44	Working lights, front left
2-3/45	Working lights, front right
2-3/46	Relay for working lights (K15)
2-3/47	Interval timer
2-3/48	Rear window heater relay (K06)
2-3/49	Timer for gear shift (only for fast loaders)
2-3/50	Impulse relay for gear shift (only for fast loaders)
2-3/51	Relay for gear shift (only for fast loaders)
2-3/52	Relay for gear shift (only for fast loaders)

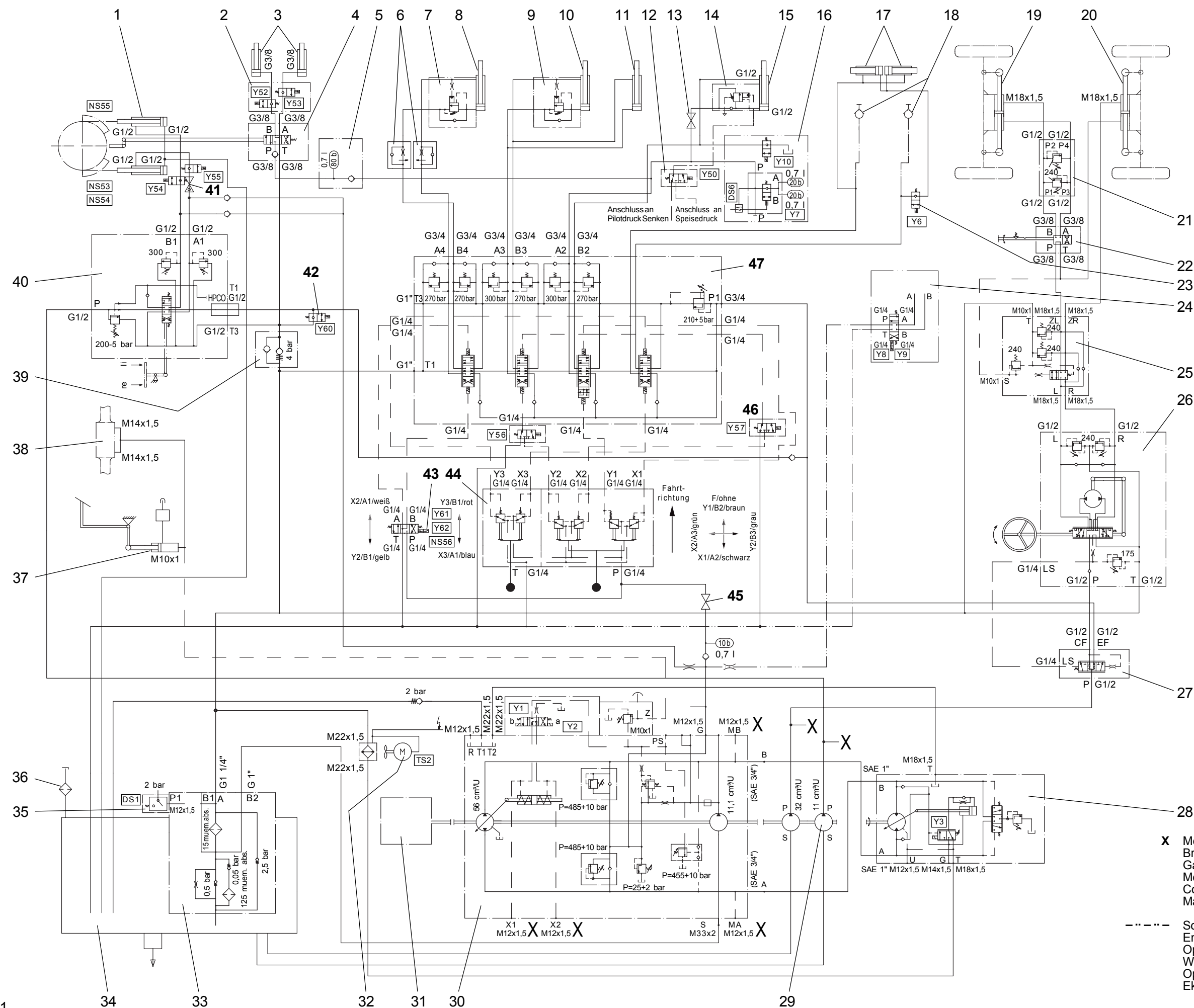
Sheet/Item Designation

3-3/01	Fuse (telescope function)
3-3/02	Relay, swivel (30°) left (K07)
3-3/03	Relay, swivel (30°) right (K08)
3-3/04	Relay, rear axle interlock right (K09)
3-3/05	Relay, rear axle interlock left (K10)
3-3/06	Relay, linkage right/left (K11)
3-3/07	Relay, extend telescope (K12)
3-3/08	Relay, retract telescope (K13)
3-3/09	Relay, idle speed control (K14)
3-3/10	Relay, overload (K16)
3-3/11	Relay, swivel (90°) left (K17)
3-3/12	Relay, swivel (90°) right (K18)
3-3/13	Relay alarm output (overload warning device)
3-3/14	Actuator for swivel restriction bypass (more than 30°)
3-3/15	Actuator for overload cut-off
3-3/16	Fuse (glow start controller)
3-3/17	Indicator for glow start system
3-3/18	Fuse (exhaust gas recirculation)
3-3/19	Glow start controller
3-3/20	Overload indicator display (option)
3-3/21	Multifunction lever right (retract/extend)
3-3/22	Diode assembly
3-3/23	Exhaust gas recirculation
3-3/24	Glow plug
3-3/25	Length transmitter
3-3/26	Angle transmitter
3-3/27	Pressure sensor
3-3/28	Valve overload warning device (option)
3-3/29	Proximity switch, swivel cut-off (90°) right
3-3/30	Proximity switch, swivel cut-off (90°) left
3-3/31	Valve, idle speed control
3-3/32	Switch, idle speed control
3-3/33	Valve, retract telescope
3-3/34	Valve, extend telescope
3-3/35	Valve, rear axle interlock left
3-3/36	Valve, rear axle interlock right
3-3/37	Valve, swivel release, left
3-3/38	Valve, swivel release, right
3-3/39	Proximity switch, rear axle interlock
3-3/40	Proximity switch, telescope retracted
3-3/41	Proximity switch, swivel right
3-3/42	Proximity switch, swivel left

option = optional equipment

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 circuit diagram

Item Designation

- 01 Swivel cylinder DW 100/50/620/960
- 02 Leakage-free rear axle interlock
- 03 Supporting cylinder EW 50/145/438
- 04 Supporting valve
- 05 Reservoir system, pipe break protection
- 06 Flow rate restrictor
- 07 Pipe break protection, telescope cylinder
- 08 Telescope cylinder DW 80/50/1050/1770
- 09 Pipe break protection, tip cylinder
- 10 Tip cylinder DW 110/70/456/871
- 11 Compensation cylinder DW 80/45/350/800
- 12 Combination valve: pipe break protection / lifting device suspension
- 13 Choke (lift, lower)
- 14 Pipe break protection, lift cylinder
- 15 Lift cylinder DW 110/70/815/1465
- 16 Lifting device suspension
- 17 Locking cylinder DW 40/25/40/167
- 18 Auxiliary hydraulics, 1st circuit
- 19 Steering cylinder, front
- 20 Steering cylinder, rear
- 21 Double shock valve
- 22 Steering switching valve
- 23 Electric interlock for quick-change device
- 24 Gear shift (fast loader)
- 25 Blocking valve
- 26 Steering unit, 200/100 cm³/rev.
- 27 Priority valve
- 28 Drive motor A6VM 107 HA
- 29 Gear-type pump (32 + 11) cm³/rev.
- 30 Drive pump A4VG 56 DA
- 31 Drive motor KHD TD 2011L04I
- 32 Hydraulic oil cooler with electric fan
- 33 Combined suction and return flow filter
- 34 Hydraulic oil tank
- 35 Electric contamination indicator
- 36 Filling/ventilation filter
- 37 Stepped main brake cylinder
- 38 Lamella brake
- 39 Servo pressure valve
- 40 1-way valve
- 41 Choke (swivel)
- 42 Idle speed control
- 43 Pilot valve for telescope cylinder
- 44 Control pressure transmitter
- 45 Shut-off valve, working hydraulics
- 46 Hydraulic tilt limiter
- 47 4-way valve

NOTE

The item numbers in the hydraulic diagram are cross-references to the respective interface in the electric wiring diagram.