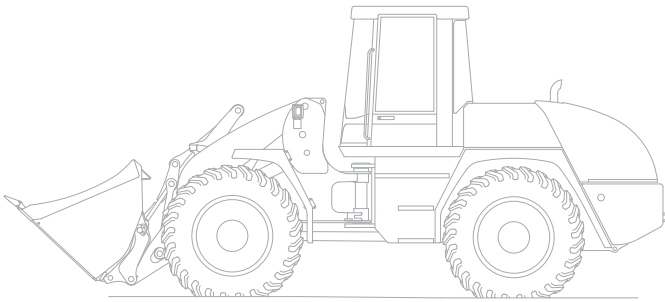




TL 310 SERVICE - MANUAL

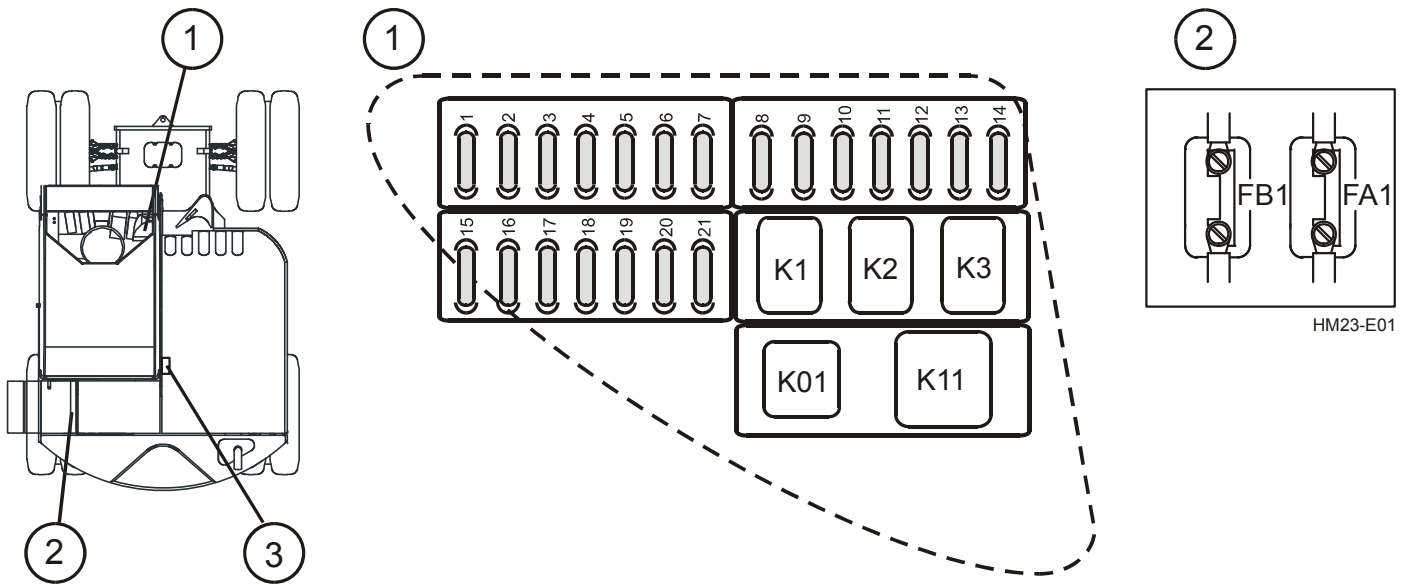
List of Contents

- 1 General**
- 2 Technical Data**
- 3 Diesel Engine**
- 4 Hydraulic System**
- 5 Setting Instructions**
- 6 Functional Description**
- 7 Electrical System**
- 8 Maintenance**
- 9 Operation**
- 10 Options**
- 11 Repair Instructions**
- 12 BDE/Special tooling**



Electrical system

Fuse and relay box - Assignment diagram



1 = Instrument panel

2 = Service ladder

3 = Starter box in engine compartment

Fuses		
Location	Ampere	assigned with
F1	10	Interior light, radio, immobilizer
F2	20	Socket, additional heating (option)
F3	10	Hazard lamp, headlamp flasher, rotating beacon
F4	15	Working floodlight, front
F5	15	Working floodlight, rear
F6	15	Refueling pump, electrical seat heating (option)
F7	10	Horn, switch lighting, immobilizer
F8	15	Heater fan
F9	10	Wiper and washer system, radio
F10	5	Hydr. oil level, overload warning, rock breaker, additional control circuit
F11	5	Travel, parking brake, brake light switch
F12	5	Working hydraulics
F13	10	Brake light
F14	10	Hazard lamp
F15	15	High beam

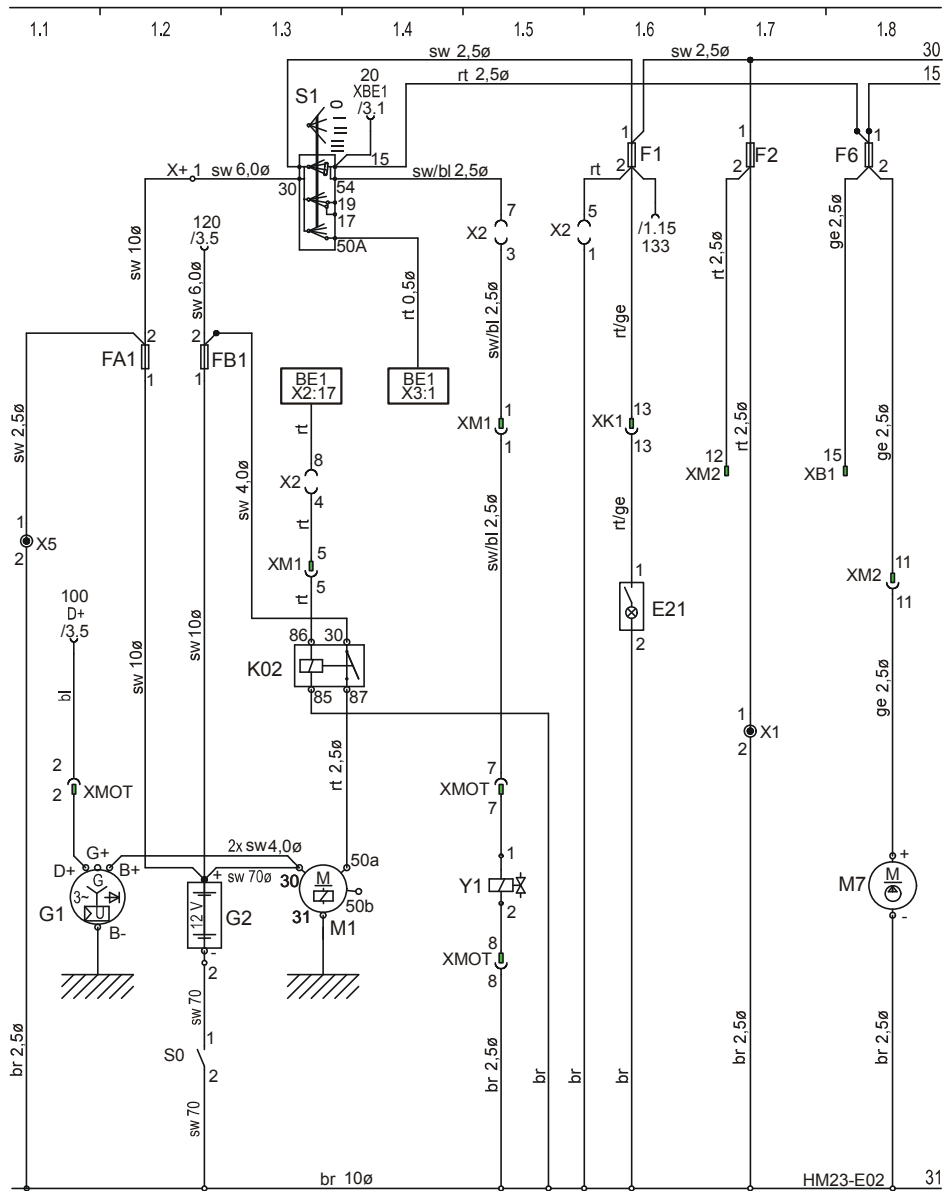
Fuses		
Location	Ampere	assigned with
F16	15	Low beam
F17	10	Side marker lamp, left
F18	10	Side marker lamp, right
F19	10	Additional module
F20	10	All-wheel steering (option)
F21	10	(Option)
FA1	40	Main fuse
FB1	50	Pre-heating

Colors of fuses			
5A	brown	10A	red
15A	blue	20A	yellow

Relays	
Position	Function
K 01	Pre-heating relay
K 02	Start-up relay (in starter box)
K 1	Working floodlight, front
K 2	Working floodlight, rear
K 3	not assigned (air conditioning — option)
K11	Directional indicator

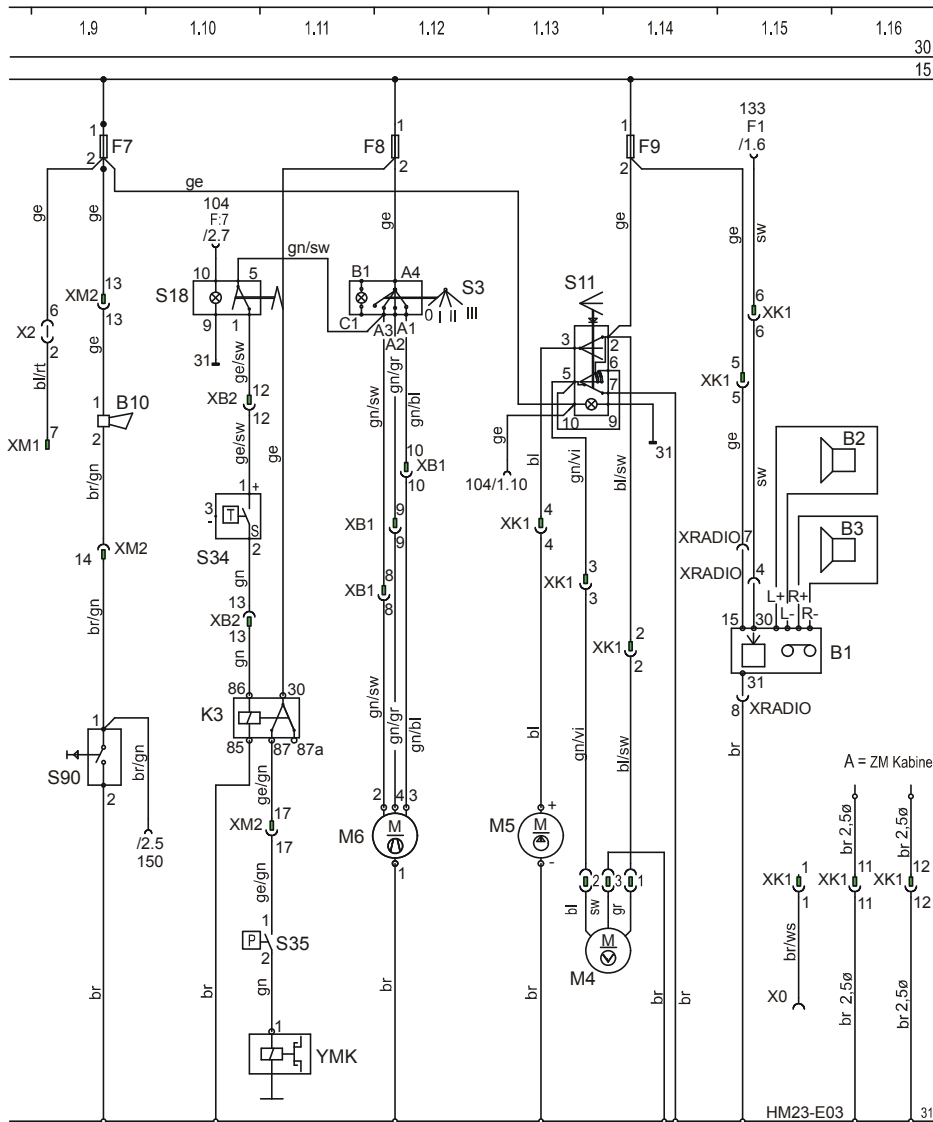
	Typ/Model/Type TW 70 (HML 23) from s/n.: TW00700100	Datum/Edition/Date 01.2007
	Benennung/Description/Dénomination Fuse and relay assignment	Blatt/Page/Feuille 7.49.50

Power supply	Start-up system	Shut-off	Interior light, socket	Refueling pump
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Path	Code	Device	Path	Code	Device
		Power supply			Shut-off
1.1	X5	Service ladder socket	1.5	Y1	Shut-off valve
1.2	G1	Generator			
1.2	FA 1	Fuse			Interior light, socket
1.2	FB 1	Fuse	1.6	F1	Fuse
1.2	G2	Battery	1.6	E21	Interior light
1.2	SO	Battery disconnect switch	1.7	F2	Fuse
		Start-up system	1.7	X1	Instrument panel socket
1.3	S1	Glow plug and starter switch			
1.3	M1	Starter			Refueling pump
1.3	K02	Start-up relay	1.8	F6	Fuse
			1.8	M7	Refueling pump

Horn	Heater fan, air conditioning	Wiper and washer system	Radio
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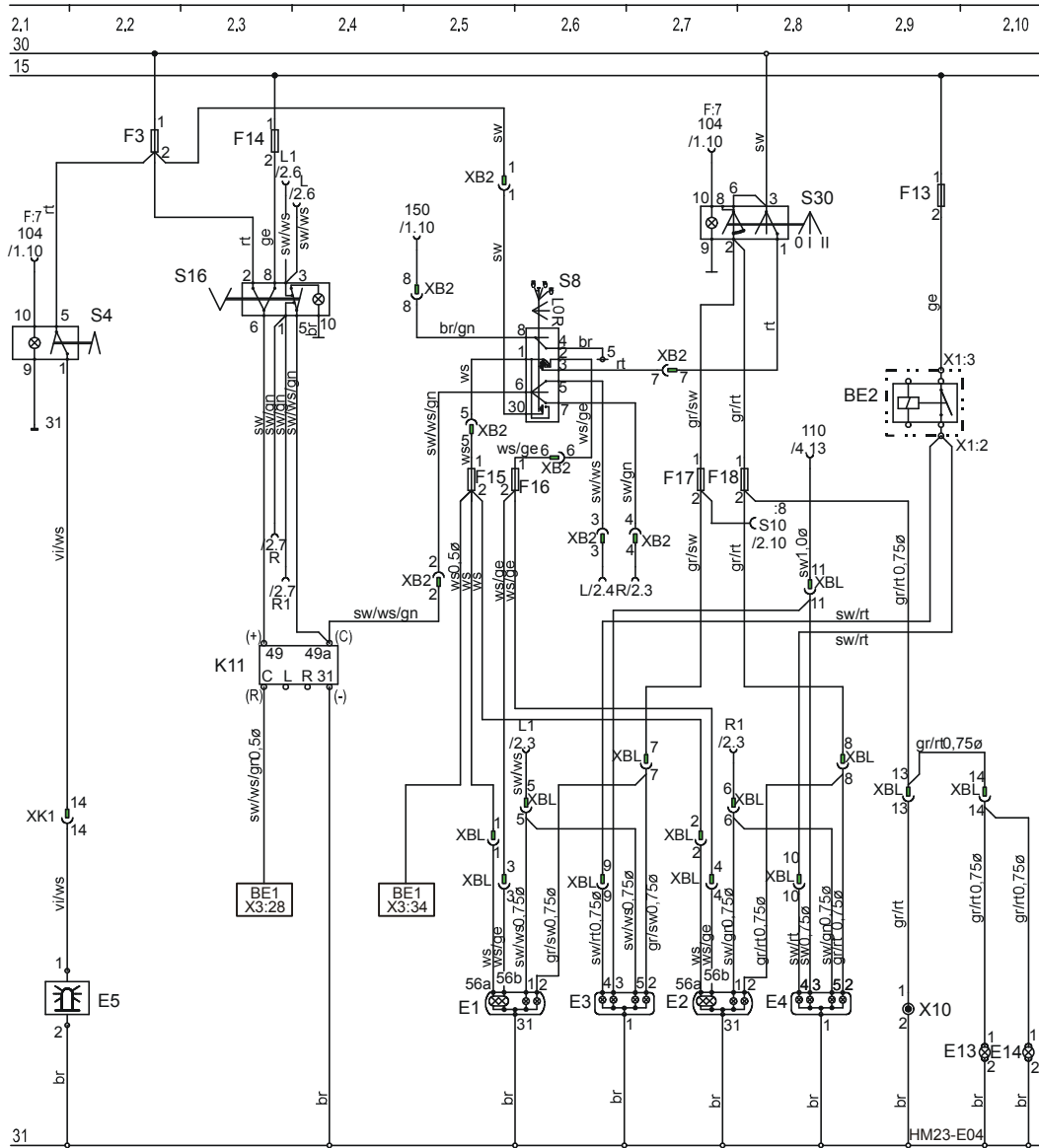


Path	Code	Device	Path	Code	Device
		Horn			Wiper and washer system
1.9	F7	Fuse	1.13	M5	Washer pump
1.9	B10	Horn	1.13	S11	Wipe/wash switch
1.9	S90	Coordinate lever horn button	1.13	F9	Fuse
		Heater fan, air conditioning	1.13	M4	Wiper motor
1.10	S18	Air conditioning switch			Radio
1.10	S34	Air conditioning temperature switch	1.15	B1	Radio
1.10	K3	Relay	1.16	B2	Loudspeaker
1.10	S35	Air conditioning pressure switch	1.16	B3	Loudspeaker
1.10	YMK	Compress. magnetic coupling			
1.11	F8	Fuse	1.16	A	Central mass, cab
1.12	S3	Heater fan switch			

	Typ/Model/Type TW 70 (HML 23) from s/n.: TW00700100	Datum/Edition/Date 01.2007
	Benennung/Description/Dénomination Wiring diagram	Blatt/Page/Feuille 7.49.51

Rotating beacon

Lighting system



Path	Code	Device	Path	Code	Device
		Rotating beacon	2.5	E1	Headlamp, left
2.1	S4	Rotating beacon switch	2.6	E3	Tail lamp, left
2.2	E5	Rotating beacon	2.7	E2	Headlamp, right
2.2	F3	Fuse	2.7	F17	Fuse
		Lighting system	2.8	S30	Light switch
2.3	F14	Fuse	2.8	F18	Fuse
2.3	S16	Hazard warning switch	2.8	E4	Tail lamp, right
2.3	K11	Directional indicator	2.9	F13	Fuse
2.5	F15	Fuse	2.9	BE2	Additional module
2.5	F16	Fuse	2.9	X10	Side marker lamp socket
2.6	S8	Steering column switch	2.10	E13	License-plate illumination
			2.10	E14	License-plate illumination

Thank you very much for reading.

This is part of the demo page.

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