

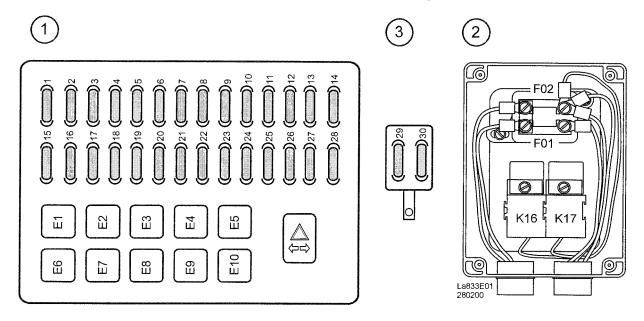
SKL 824 SERVICE-MANUAL

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Electrical system

Fuse and relay box - Assignment diagram



1 = Fuse and relay box	Seat console, right, bottom
2 = Starter box	Engine compartment dividing wall - tank side, right
3 = Fuse box	Behind fuse and relay box (pos. 1)

Location	Relay	Function
E 1		not assigned
E 2	K 2	Starting safeguard
E 3	К3	Travel, in reverse
E 4	K 4	Travel, forward
E 5	K 5	Float position
E 6	K 6	Additional valve
E7	K 7	Additional valve
E 8	K 8	Brake inching
E 9	K 9	Working floodlight, front
E 10	K 10	Working floodlight, rear
Û.	K 11	Flasher transmitter
	K 13	Pre-heat relay (engine compartment dividing wall - near generator)
	K 16	Shut-off
	K 17	Start-up

Fuse and diode assignment

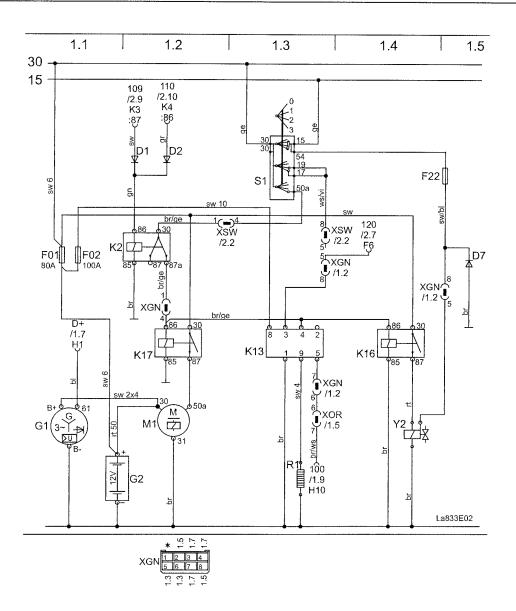
Position	Ampere	Assigned to	Position	Ampere	Assigned to
F 1	10	Hazard warning switch	F 15	10	Hazard warning switch
		Immobilizer			Immobilizer
F 2	15	Working hydraulics cut-off	F 16	10	Rotating beacon
					Interior light
F 3	15	Travel - Fast/ slow	F 17	10	Socket
***************************************					Radio
F 4	15	Parking brake switch	F 18	15	Low beam
		Travel, forward & in reverse			
		Hydrostatic brake			
F 5	10	Signal horn	F 19	15	High beam
F 6	10	Brake light	F 20	10	Side marker lamp, left
					Working floodlights, front
F 7	15	Heater fan	F 21	10	Instrument light
					Working floodlights, rear
					Side marker lamp, right
F8	15	Front wiper	F 22	20	Engine shut-off
F 9	15	Rear wiper	F 23	Diode	Back-up alarm
			D 5	3A	
F 10	10	Instruments	F 24	Diode	Hydrostatic brake
			D4	3A	
F 11	15	Float position relay	F 25	Diode	Activation fast / slow
			D 3	3A	Hydrostatic brake
F 12	10	Radio	F 26	Diode	Start-up safeguard
	, .		D 1	3A	
F 13	10	Additional control circuit	F 27	Diode	Start-up safeguard
	************		D 2	3A	100000
F 14	Diode	Three-phase alternator	F 28	Diode	Engine shut-off recovery diode
D6	3A		D 7	3A	- 17-170-77-180-7-180-1
F 29 *	15	Working floodlights, front	F 30 *	15	Working floodlights, rear
					211111111111111111111111111111111111111
F 01	80	Pre-heat/ starter switch	F 02	100	Starter

^{*} These fuses are located behind the fuse and relay carrier. This part has to be removed to reach the fuses.

Cable and plug colors

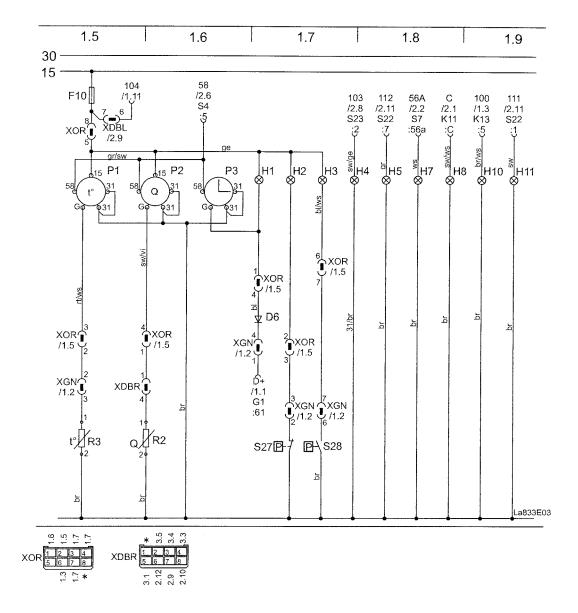
	- Cable and plug colore							
bg	beige	dgr	dark gray	hbr	light brown	rt	red	
bl	blue	ge	yellow	hgr	light gray	sw	black	
br	brown	gn	green	hr	light red	vi	violet	
dbl	dark blue	gr	grey	nt	nature	ws	white	
dbr	dark brown	hbl	light blue	or	orange			

Pre-heat, start-up system



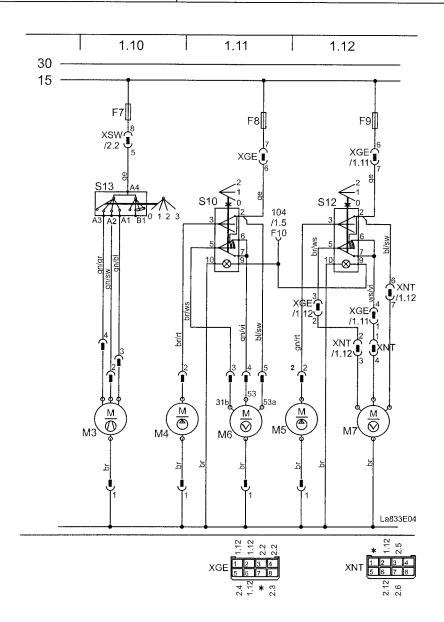
Path	Desig-	Device	Path	Desig-	Device
	nation			nation	
		Pre-heat, start-up system	1.2	D1	Diode
1.1	G1	Generator	1.2	D2	Diode
1.1	G2	Battery 12 V	1.3	S1	Pre-heat/ starter switch
1.2	M1	Starter	1.3	K13	Pre-heat relay
1.2	K2	Starting relay	1.4	K16	Cut-off relay
		(starting safeguard)			
1.2	K17	Starting relay	1.4	Y2	Electrical engine cut-off
		(starting aid)			
1.1	F01	Blade-type fuse 80A	1.3	R1	Glow plugs
1.1	F02	Blade-type fuse 100A	1.5	D7	Diode
			1.5	F22	Fuse

Instruments, display elements



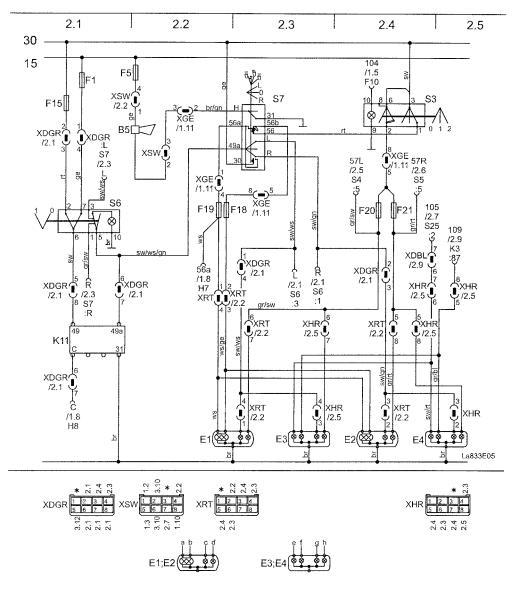
Path	Desig-	Device	Path	Desig-	Device
	nation			nation	
		Instruments, indicating units	1.7	H4	Parking brake indicator lamp
1.5	P1	Temperature indicator	1.8	H5	Travel, forward
1.6	P2	Fuel gauge	1.9	H11	Travel, in reverse
1.6	P3	Operating hour meter	1.8	H7	Upper beam indicator lamp
1.5	R3	Coolant temperature sensor	1.8	H8	Direction indicator
1.6	R2	Fuel gauge transmitter	1.9	H10	Pre-heat indicator lamp
1.5	F10	Fuse	1.7	D6	Diode
1.7	H1	Charge control lamp	1.7	S27	Engine oil pressure switch
1.7	H2	Engine oil pressure indicator	1.7	S28	Air filter clogging switch
		lamp			
1.7	H3	Air filter clogging indicat.lamp			

Heater fan	Wash/ wipe system



Path	Desig- nation	Device	Path	Desig- nation	Device
		Heater fan	1.11	S10	Front wash/ wipe switch
1.10	F7	Fuse	1.12	S12	Rear wash/ wipe switch
1.10	S13	Heater fan switch	1.10	M4	Front washer pump
1.10	M3	Heater fan	1.11	M6	Front washer motor
		Wash/ wipe system	1.12	M5	Rear washer pump
1.11	F8	Fuse	1.12	M7	Rear washer motor
1.12	F9	Fuse			

Lighting and signaling system



a = Upper beam

d = Side marker lamp

g = Direction indicator

b = Lower beam

e = Brake light

h = Side marker lamp

c = Direction indicator

f = Back-up lamp

Path	Desig- nation	Device	Path	Desig- nation	Device
		Lighting and signaling system	2.2	F18	Fuse
2.1	F15	Fuse	2.4	F20	Fuse
2.1	F1	Fuse	2.4	F21	Fuse
2.2	F5	Fuse	2.1	K11	Direction indicator relay
2.2	B5	Horn	2.2	E1	Headlamp, left
2.1	S6	Hazard warning switch	2.4	E2	Headlamp, right
2.3	S7	Steering column switch	2.3	E3	Back light, left
2.4	S3	Light switch	2.5	E4	Back light, right
2.2	F19	Fuse			

Thank you very much for reading.

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