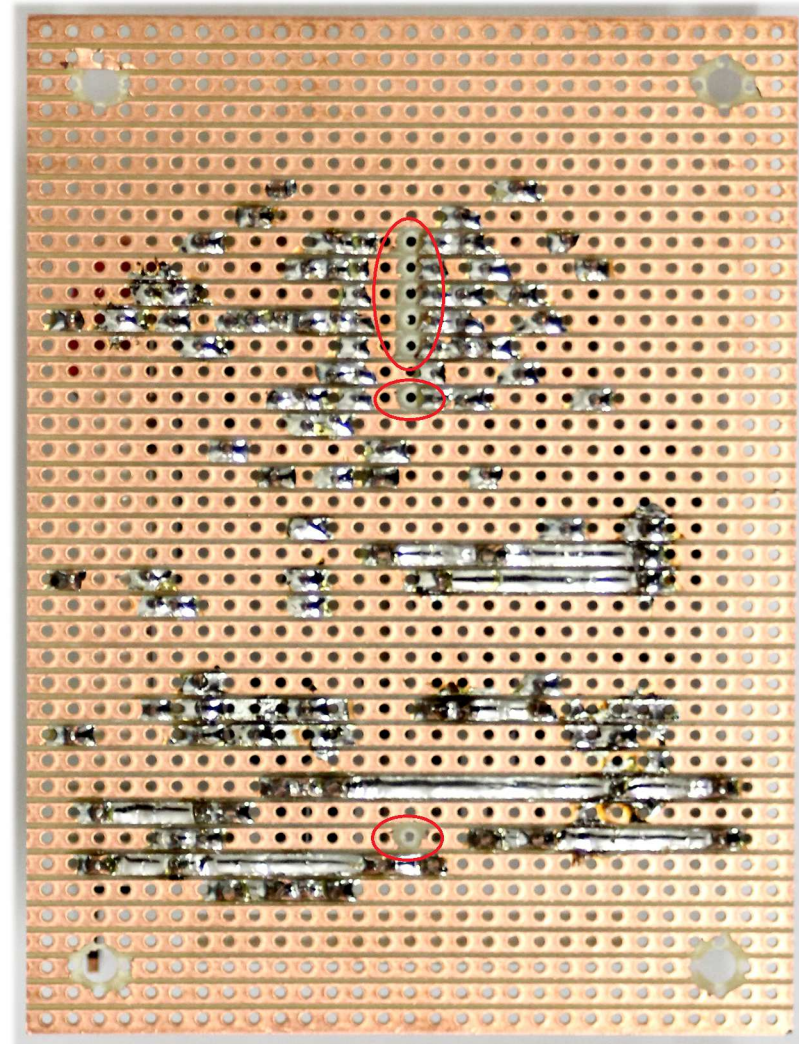
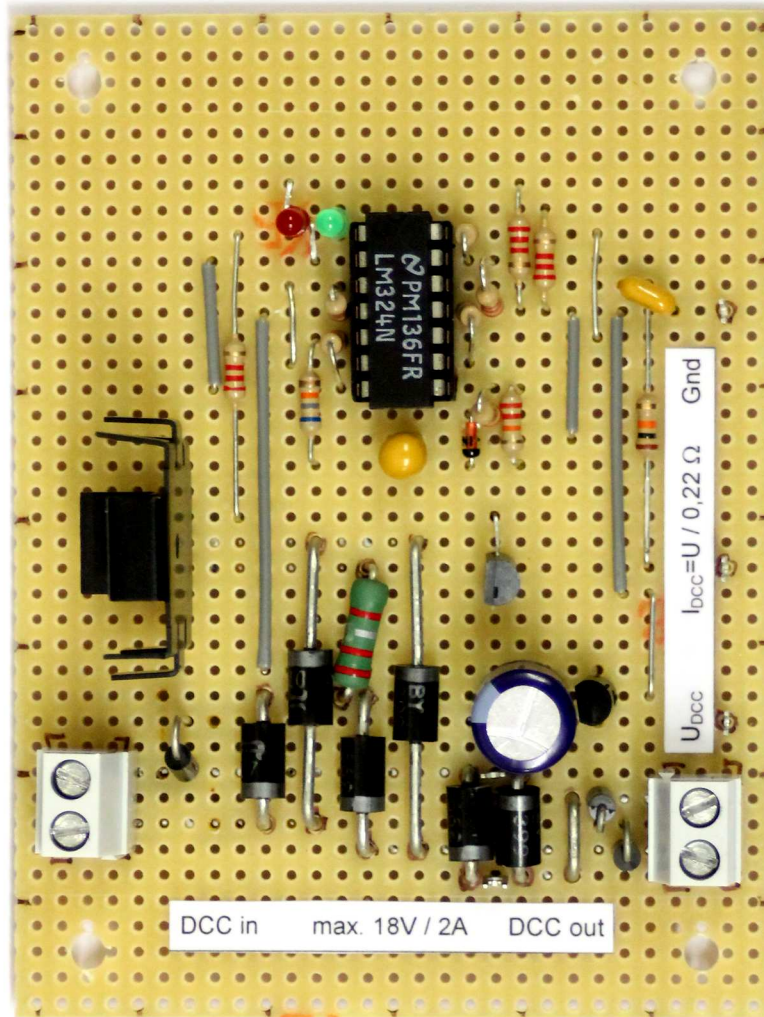


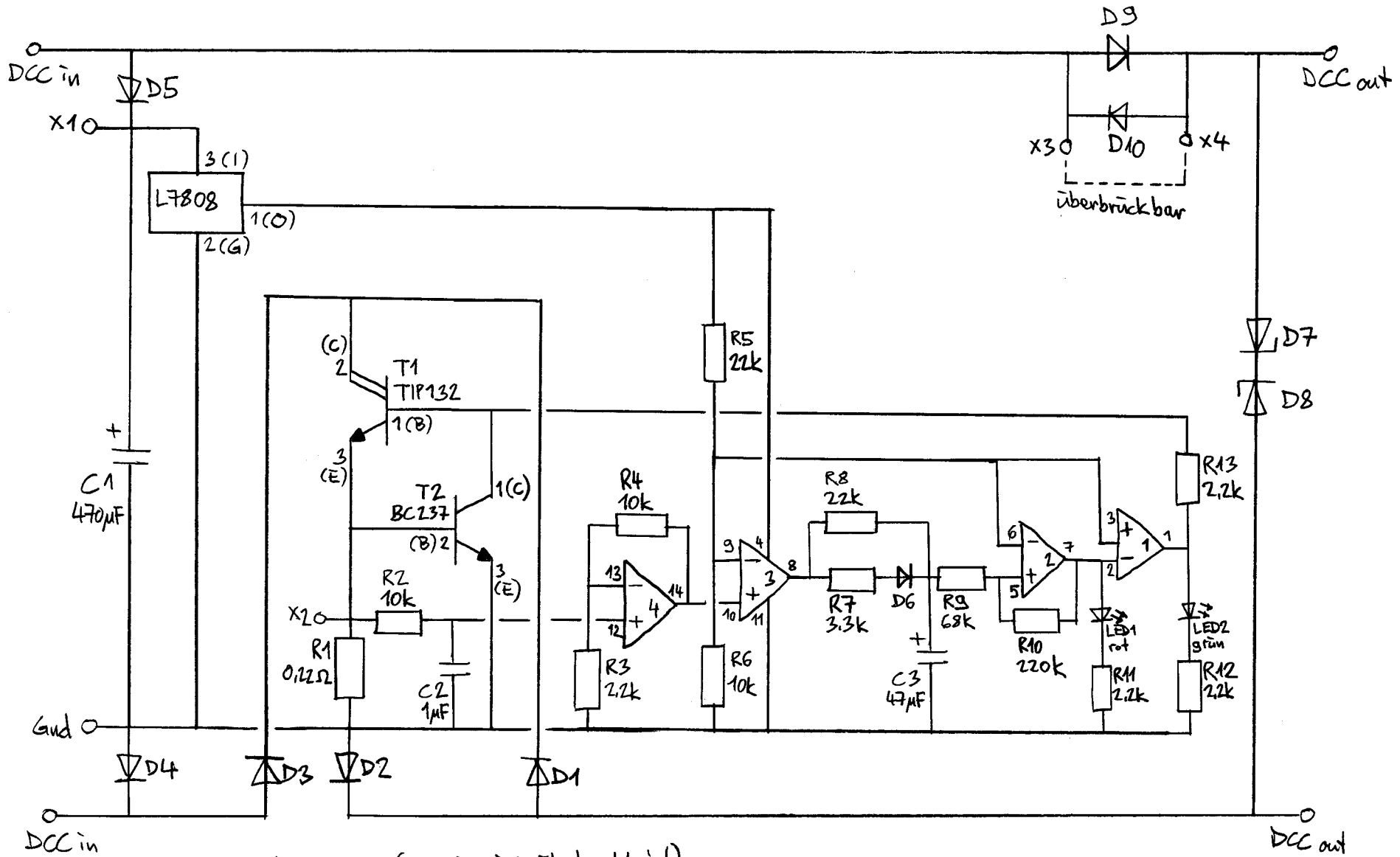
DCC Sicherungsautomat : Bauanleitung

30.05.2015 / Felix Geering



DCC Sicherungsautomat

30.5.2015 / Felix Geering



$$U_{DCC} = U_{X1} + 1,2V \text{ (wenn D9, D10 überbrückt sind)}$$

$$I_{DCC} = U_{X2} / R1 = U_{X2} / 0,22\Omega$$

DCC Sicherungsautomat

30.5.2015 / Felix Geering

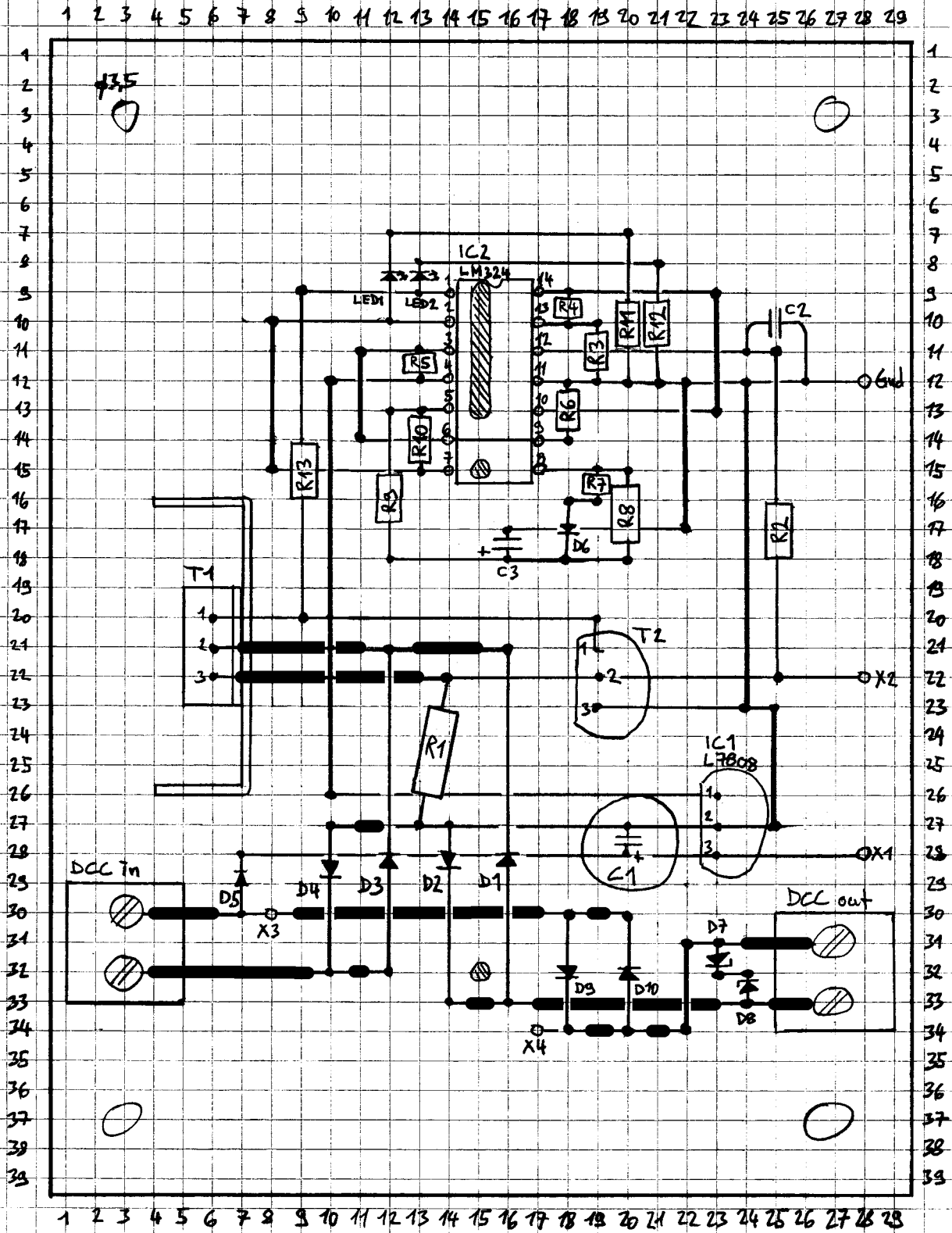


Tabelle1

DCC Sicherungsautomat: Stückliste					
Bez.	Was?	Anz.	Distrelec #	Preis / St.	Preis total
R1	Widerstand 0.22 Ohm / 2W	1	711193	0.54	0.54
R3,R11,R12,R13	Widerstand 2.2 kOhm / 1/4W	4	700029	0.06	0.24
R7	Widerstand 3.3 kOhm / 1/4W	1	700031	0.06	0.06
R2,R4,R6	Widerstand 10 kOhm / 1/4W	3	700037	0.06	0.18
R5,R8	Widerstand 22 kOhm / 1/4W	2	700041	0.06	0.12
R9	Widerstand 68 kOhm / 1/4W	1	700047	0.06	0.06
R10	Widerstand 220 kOhm / 1/4W	1	700053	0.06	0.06
D1,D2,D3,D4,D9,D10	Diode BY399, 3A, 500ns	6	602107	0.25	1.50
D5	Diode 1N4001, 1A	1	603560	0.06	0.06
D6	Diode 1N4148, 150mA	1	603016	0.04	0.04
D7,D8	Z-Diode ZY18, 18V 2W	2	600954	0.35	0.70
LED1	LED 3mm rot, Low Power	1	251568	0.25	0.25
LED2	LED 3mm grün, Low Power	1	251572	0.40	0.40
C1	Elko 470uF / 35V	1	803543	0.80	0.80
C2	Kondensator 1uF / 16V	1	830406	0.45	0.45
C3	Elko 47uF / 35V	1	803539	0.16	0.16
T1	TIP132, Transistor NPN Darlington, 8A	1	611322	1.00	1.00
T2	BC237, Transistor NPN, 100mA	1	610216	0.10	0.10
	Kühlkörper 25 K/W für TO-220	1	650060	0.60	0.60
IC1	L7808, Spannungsregler 8V 100mA	1	649930	0.30	0.30
IC2	LM324, Quad OP, DIL14	1	640732	1.50	1.50
	IC-Sockel DIL14	1	651925	0.40	0.40
	Schraubklemme 2-Pol, 2.5mm ²	2	129503	0.57	1.14
	Lötstifte flach 8VPE = 100 St.)	0.05	450200	2.92	0.15
	Laborkarte Lochraster 100x75	1	450136	2.30	2.30
	Draht 0.25mm ²		pauschal		
	Total				13.11
	11.07.2018 / Felix Geering				

U_{DCC} $I_{DCC}=U / 0,22 \Omega$ Gnd

DCC in max. 18V / 2A DCC out

U_{DCC} $I_{DCC}=U / 0,22 \Omega$ Gnd

DCC in max. 18V / 2A DCC out

U_{DCC} $I_{DCC}=U / 0,22 \Omega$ Gnd

DCC in max. 18V / 2A DCC out

U_{DCC} $I_{DCC}=U / 0,22 \Omega$ Gnd

DCC in max. 18V / 2A DCC out