

Delta Elektronika 300V power supply E 0300-0.1A

2 Versions:

- page 2-5 : with transistors
- page 6-8 : with ic's

B 1663

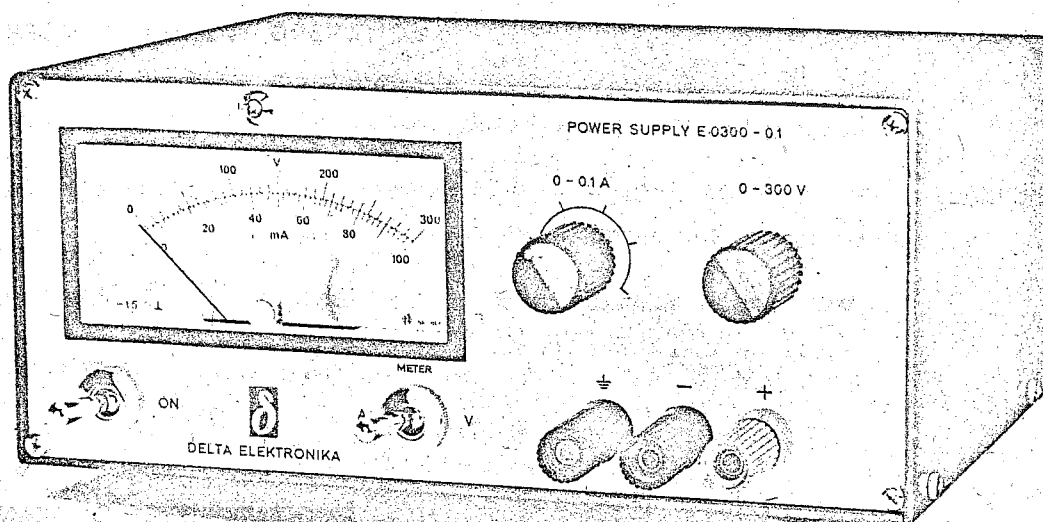
Biochemie

NV DELTA ELEKTRONIKA



P.O. BOX 27
ZIERIKZEE
NETHERLANDS
TELEPHONE (01110) 2734

Bu 326A → Buxu8



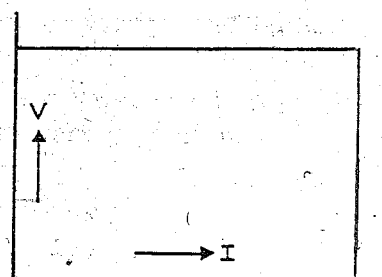
REGULATED POWER SUPPLY E 0300-0.1

0-300 V, 0-100 mA

serie nrs: 099007
099008

DESCRIPTION

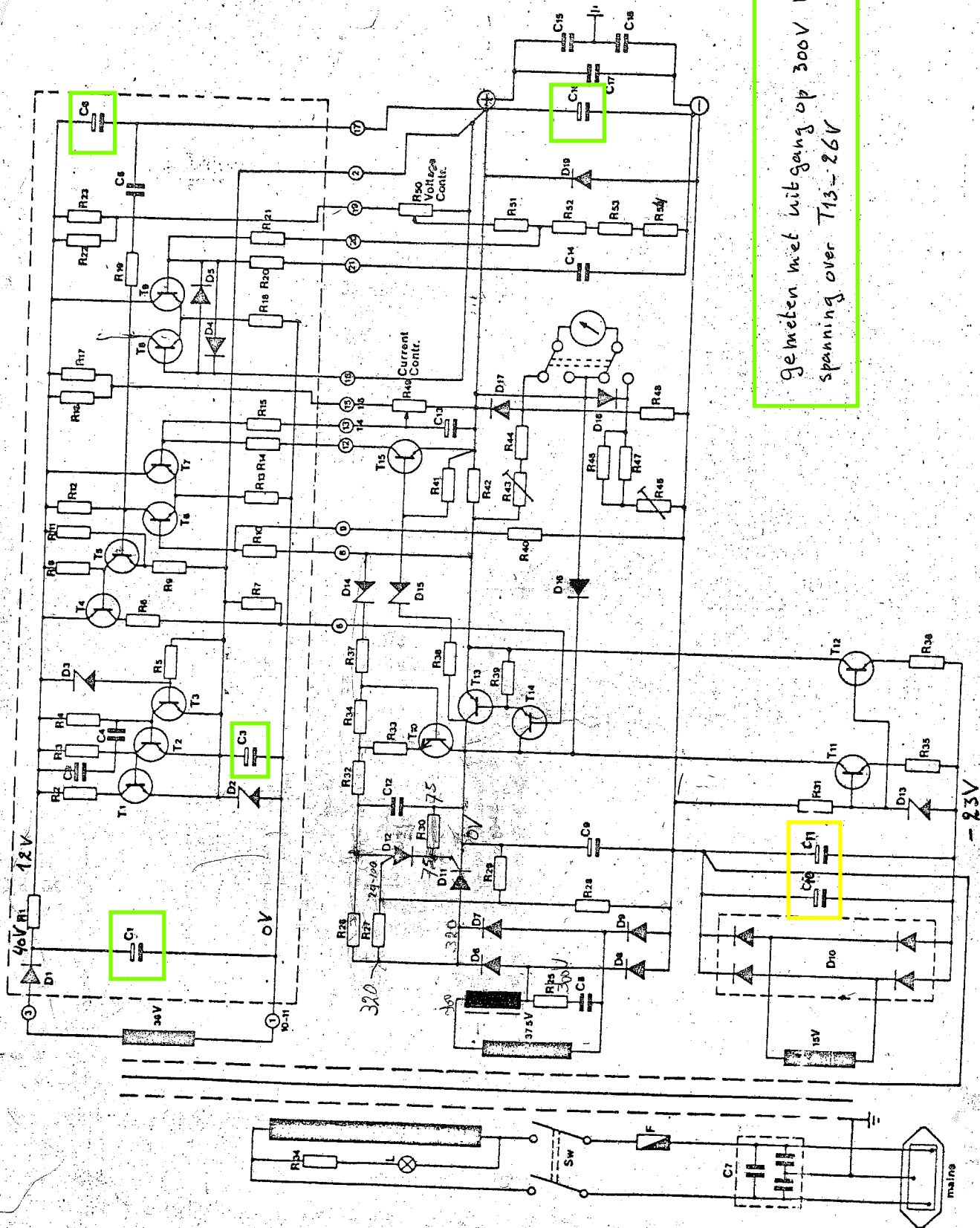
The power supply E 0300-0.1 can be used as a constant voltage source with a limited current or as a constant current source with a limited open voltage. The change of mode occurs sharply at the crossing of the voltage and current settings.



CONSTANT VOLTAGE OPERATION

Voltage control	10-turn potentiometer, range 0-300 V.
Voltage regulation	10 mV for a + or - 10% AC input voltage variation. 60 mV for a 0-100% load variation.

Handwritten signature or initials.



gemeten met uitgang op 300V met B.V.M.
spanning over T13-26V

PART LIST

R (Ohm)

1 W

1 = 680	
2 = 150	
3 = 10	k
4 = 10	k
5 = 150	
6 = 33	
7 = 1	k
8 = 2,2	k
9 = 2,2	k
10 = 470	
11 = 2,7	k
12 = 22	k
13 = 6,8	k
14 = 100	
15 = 1	k
16 = 27	k
17 = 12	k
18 = 6,8	k
19 = 150	
20 = 470	
21 = 470	
22 = CR	
23 = 100	
24 = 560	k
25 = 2,2	k
26 = 270	k
27 = 100	k
28 = 820	k
29 = 10	k
30 = 100	
31 = 15	k
32 = 1	k
33 = 470	
34 = 68	k
35 = 3,3	k
36 = 3,3	k
37 = 1,2	M
38 = 10	k
39 = 120	
40 = 3,9	M
41 = 10	k
42 = 22	5 W WW
43 = 1	k var.
44 = 1,5	k
45 = 10	k var.
46 = 330	k
47 = 2,2	M
48 = 15	M
49 = 5	k potm.
50 = 1	k 10 turn potm.
51 = 5,6	k
52 = 100	k
53 = 100	k
54 = 100	k

D

1 = 1N 4003	TI
2 = ZY 6,2	ITT
3 = ZP 6,3	ITT
4 = 1N 4148	ITT
5 = 1N 4148	ITT
6 = 1N 4007	TI
7 = 1N 4007	TI
8 = 1N 4007	TI
9 = 1N 4007	TI
10 = W 005	GI
11 = HS 64 S	Hutson RCA 106mm
12 = D 13 T 1	G. E.
13 = ZP 6,2	ITT
14 = ZY 18	ITT
15 = ZY 82	ITT
16 = 1N 4007	TI
17 = 1N 4148	ITT
18 = 1N 4148	ITT
19 = 1N 4007	TI

T

1 = BC 182	TI
2 = BC 182	TI
3 = BC 182	TI
4 = BC 212	TI
5 = BC 182	TI
6 = BC 182	TI
7 = BC 182	TI
8 = BC 182	TI
9 = BC 182	TI
10 = BC 212	TI
11 = 2N 3439	RCA
12 = 2N 3439	RCA
13 = BU 132	Philips
14 = 2N 3439	RCA
15 = BC 182	TI

C (microfarads)

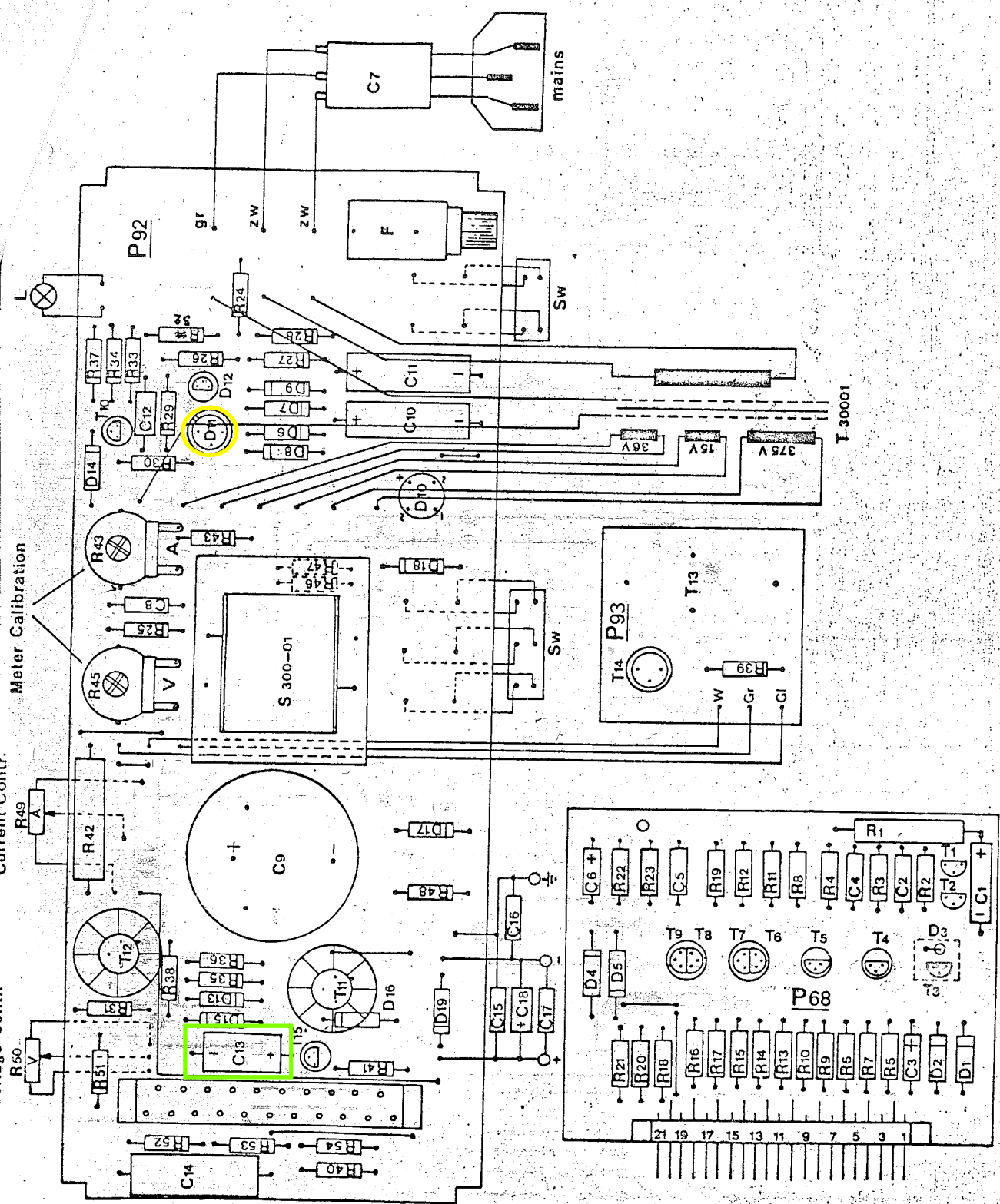
1 = 47	63 V	Hybrid Polymer
2 = 0,01	250 V	
3 = 22	15 V	Hybrid Polymer
4 = 0,01	250 V	
5 = 0,047	250 V	Hybrid Polymer
6 = 22	15 V	
7 = 0,07 uF + 2 x 2500 pF	250 V ERO	
8 = 0,0033	500 V	
9 = 100	450 V	
10 = 220	35 V	Nichicon UBT Later
11 = 220	35 V	
12 = 0,047	250 V	Hybrid Polymer
13 = 10	35 V	
14 = 0,22	630 V	
15 = 0,0033	750 V	
16 = 0,0033	750 V	
17 = 0,22	630 V	
18 = 4,7	350 V	Nichicon UBT Later

F = Fuse 1 A 5 x 20 mm
2 A for 117 V

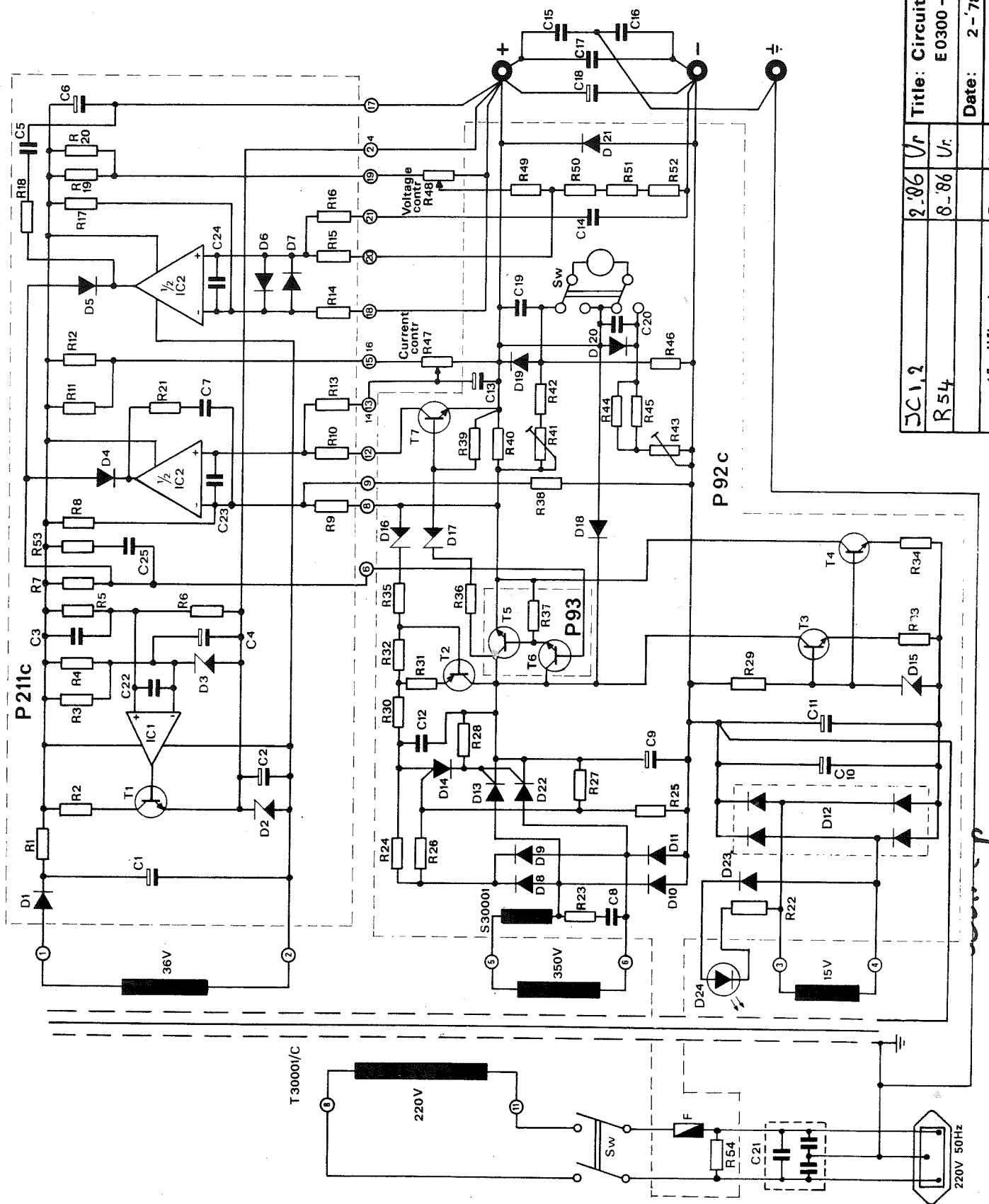
WW = Wire wound resistor

CR = Calibration resistor

All other resistors $\frac{1}{2}$ W 2% metal film



E 0300-0.1



JC1,2		Title: Circuit diagram	
R54	2.86	Ur	E0300 - 0.1
	8.86	Ur	
Modifications	Date	App	Date
			2 - '78
		delta elektronika bv	

R = Ohm

1 = 560 2,5W
 2 = 270
 3 = CR
 4 = 470
 5 = 3,9 k
 6 = 6,8 k
 7 = 1,8 k
 8 = 1 M
 9 = 470
 10 = 100
 11 = 18 k
 12 = CR
 13 = 1 k
 14 = 47
 15 = 470
 16 = 1 k
 17 = 150 k
 18 = CR
 19 = 560
 20 = CR
 21 = CR
 22 = 1,5 k
 23 = 2,2 k
 24 = 270 k
 25 = 1,2 M
 26 = 150 k
 27 = 15 k
 28 = 100
 29 = 15 k
 30 = 1 k
 31 = 820
 32 = 68 k
 33 = 3,3 k
 34 = 3,3 k
 35 = 1,2 M
 36 = 10 k
 37 = 120
 38 = 3,9 M
 39 = 10 k
 40 = 22 5W WW
 41 = 1 k trim.
 42 = 1,5 k
 43 = 10 k trim.
 44 = 330 k
 45 = CR
 46 = 15 M
 47 = 5 k potm.
 48 = 1 k 10 trn. potm.
 49 = 5,6 k
 50 = 100 k
 51 = 100 k
 52 = 100 k
 53 = 270
 54 = 2,2 M

T 1 = BC 546 A Siemens
 2 = BC 556 A Siemens
 3 = 2N3439 RCA
 4 = 2N3439 RCA
 5 = 2N6027 GE
 6 = 2N3439 RCA
 7 = BC 546 A Siemens

C = microfarad

1 = 47 63V
 2 = 22 25V
 3 = 0,047 250V
 4 = 2,2 35V
 5 = CC
 6 = 22 25V
 7 = CC
 8 = 0,01 1000V
 9 = 100 450V
 10 = 220 40V
 11 = 220 40V
 12 = 0,047 250V
 13 = 10 100V
 14 = 0,22 630V
 15 = 0,001 1000V
 16 = 0,001 1000V
 17 = 0,22 630V
 18 = 4,7 350V
 19 = 0,01 500V
 20 = 0,01 500V
 21 = 0,07+2x2500 250V
 22 = 0,0001 250V
 23 = 0,0001 250V
 24 = 0,0001 250V
 25 = 0,01 250V

D 1 = 1N4004G Philips
 2 = ZPY 6,2 ITT
 3 = 1N825 ITT
 4 = 1N4148 ITT
 5 = 1N4148 ITT
 6 = 1N4148 ITT
 7 = 1N4148 ITT
 8 = 1N4007 TI
 9 = 1N4007 TI
 10 = 1N4007 TI
 11 = 1N4007 TI
 12 = KB10-B250C-1000 Hermani
 13 = HS 64 S Hutson
 14 = 2N6027 RCA
 15 = ZPD 6,2 ITT
 16 = ZPY 12 ITT
 17 = ZPY 82 ITT
 18 = 1N4007 TI
 19 = 1N4148 ITT
 20 = 1N4148 ITT
 21 = 1N4007 TI
 22 = HS 64 S Hutson
 23 = 1N4148 ITT
 24 = 133 HR Sloan

IC 1 = TL 081 IP TI
 2 = TL 082 IP TI

CR = Calibration resistor.

CC = Calibration capacitor.

WW = Wire Wound resistor.

All other resistors 0,4W 2% metal-film.

F = Fuse 1A 5 x 20 mm

			Title: Part list
R54	8-86	Ur.	E0300-0,1
JC 1,2 (P211c)	2-86	Ur.	Date: 2.78
Modifications	Date	App	delta elektronika bv

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