

CONFIDENTIEEL

4/5 TH 11-959/2 KONINKLIJKE LANDMACHT

TECHNISCHE HANDLEIDING

**VERCIJFER - ONTCIJFERUITRUSTING
KL/TGA-3572**

**4/5e ECHELONSONDERHOUD
BEDRADINGS- EN MONTAGE GEGEVENS**



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Dit voorschrift is geclassificeerd overeenkomstig het gestelde in art. 6, 2e lid, van het classificatievoorschrift VS 2-1111, alsmede overeenkomstig de richtlijn 6-F van dat voorschrift.

STAAT VAN WIJZIGINGEN			
Volgnr.	Gewijzigd door : (in blokletters)	Datum	Paraaf
1.			
2.			
3.			
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9.			
10.			

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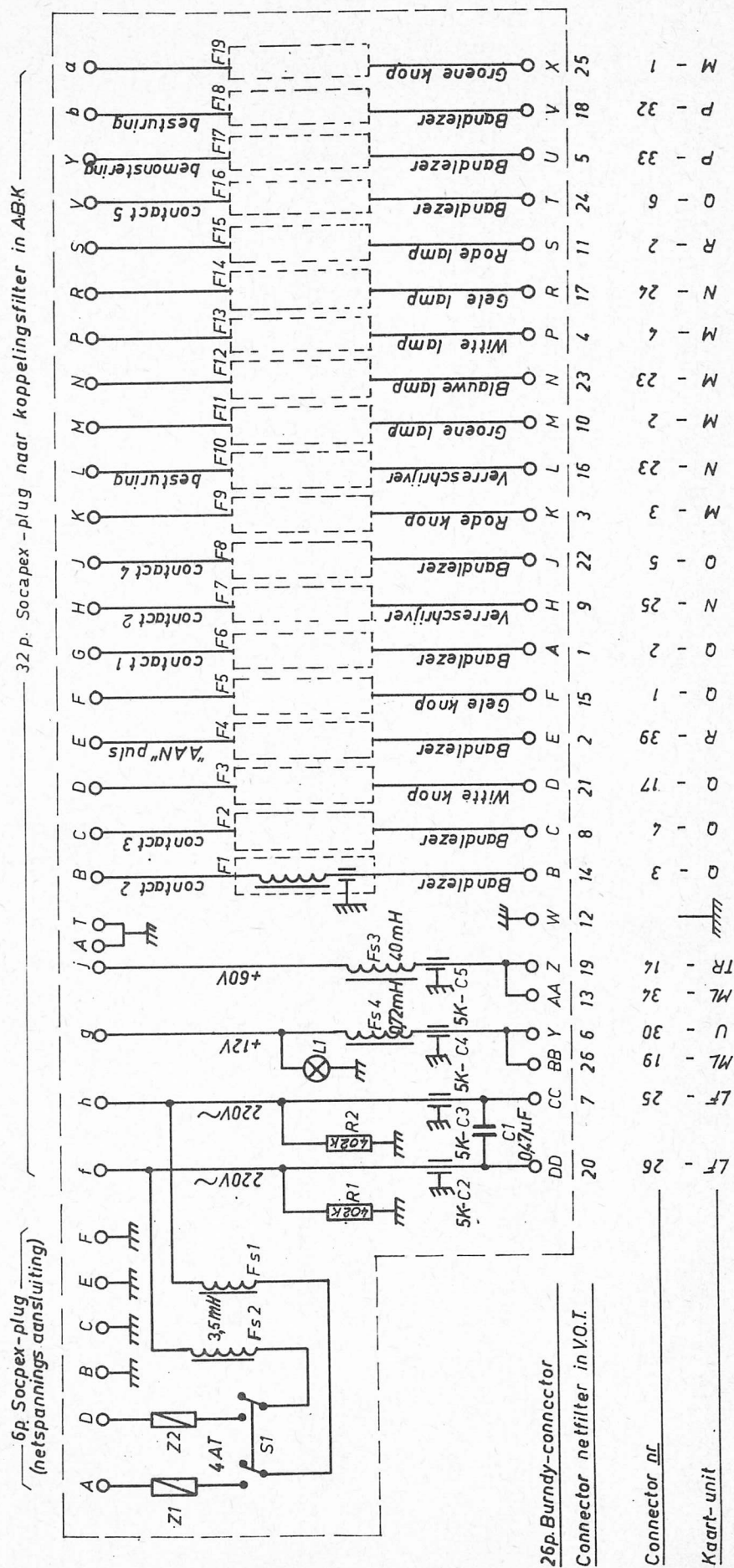
Samenstellen kaarten

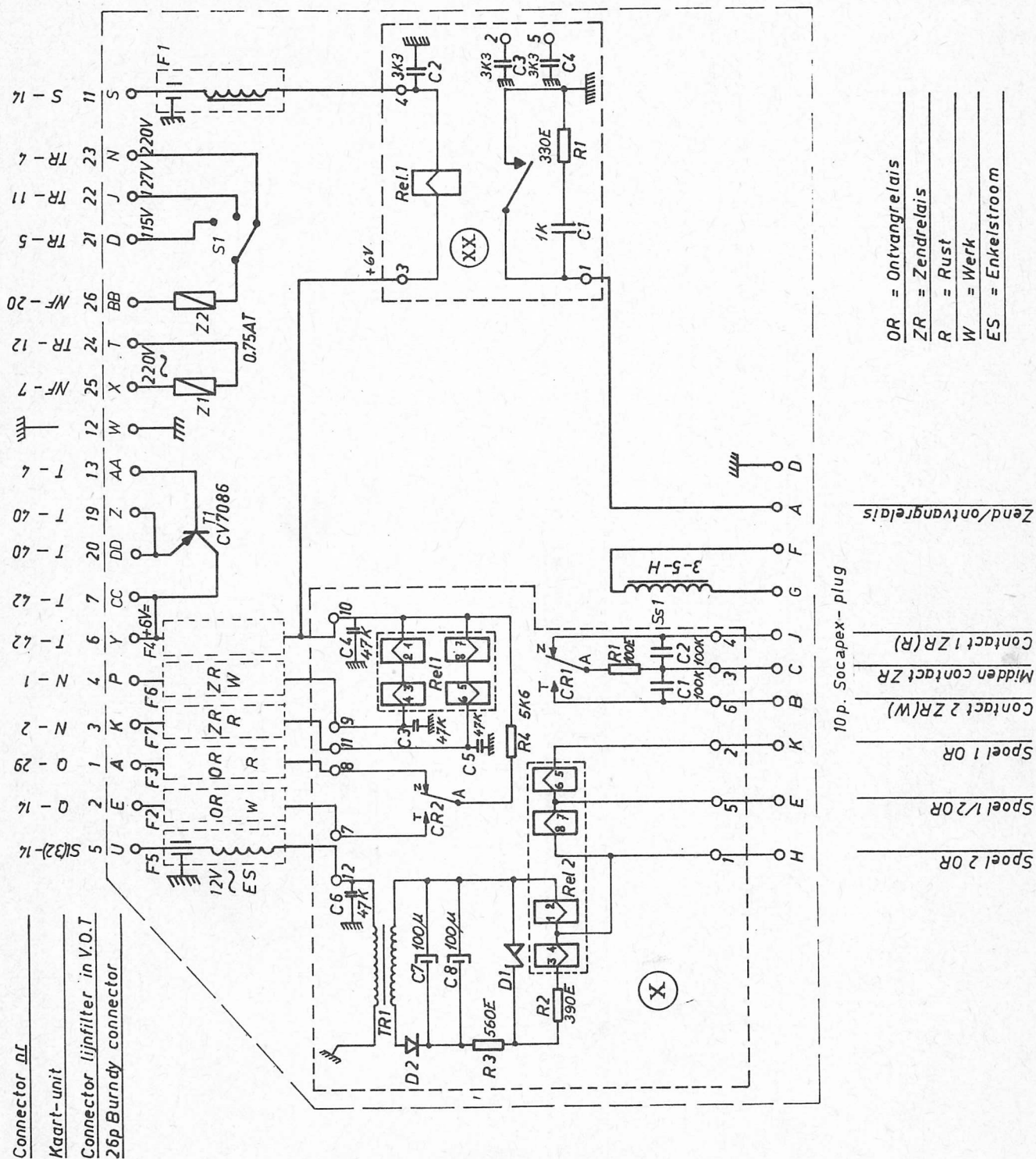
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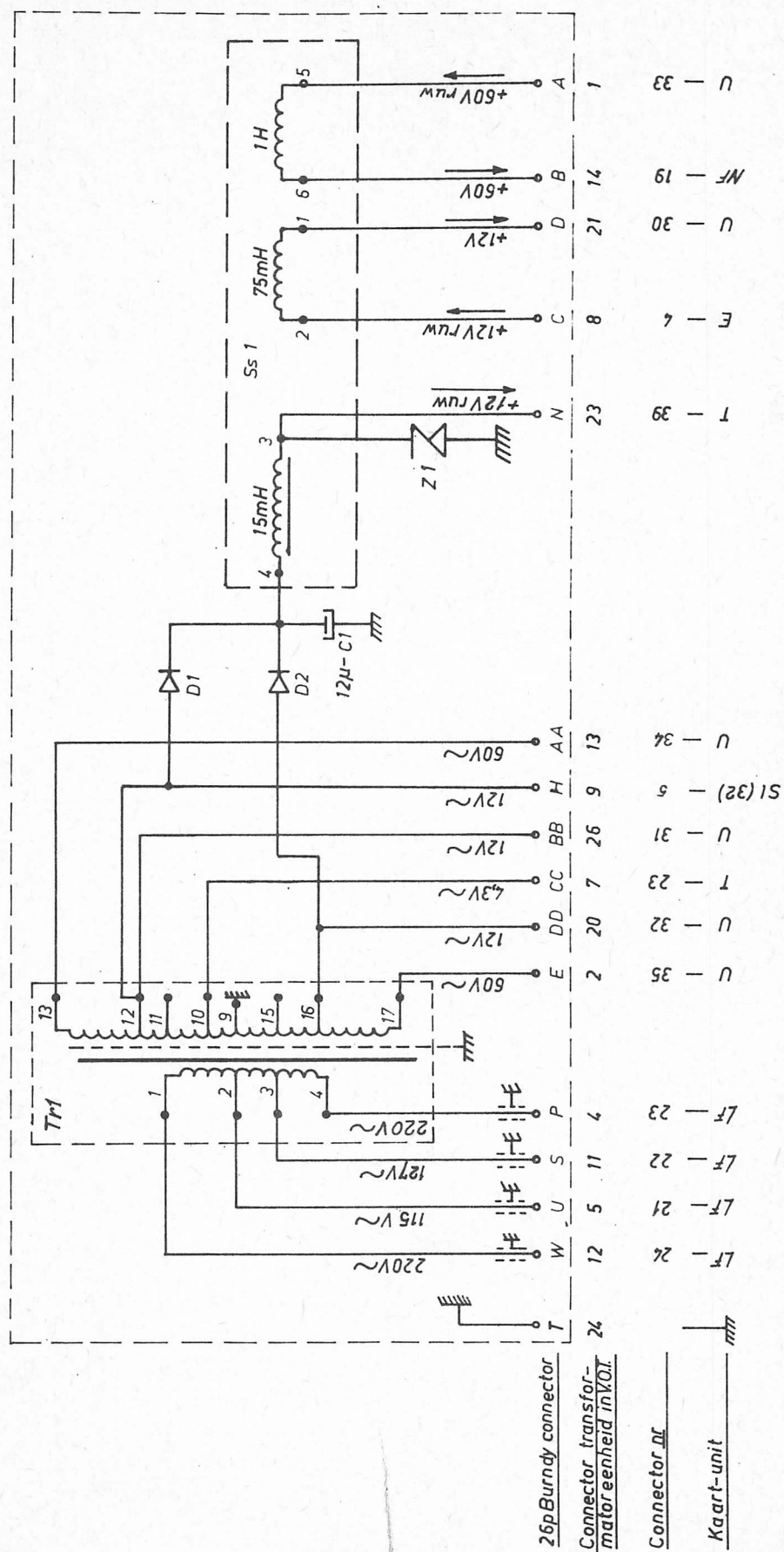
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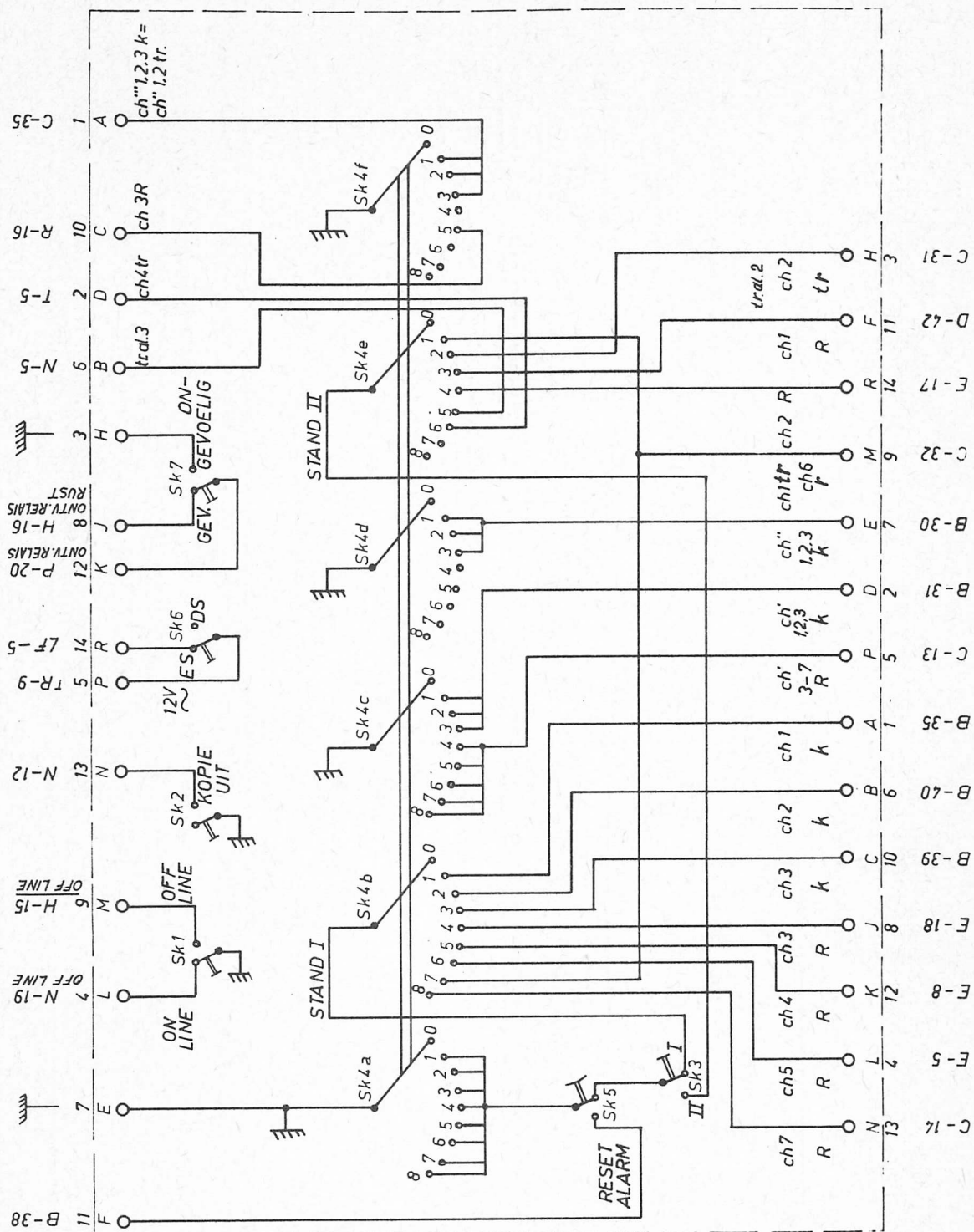
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Connector dr
Kgart-unit
Connector 32 in VO.T.
14pBurndy connector

Sk1 = on line/off line

Sk2 = kopie aan/uit

Sk3 = alarm controle I, II schakelaar

Sk4 = alarm k.ontrolle schakelaar 0-8

Sk5 = reset . alarm drukkноп

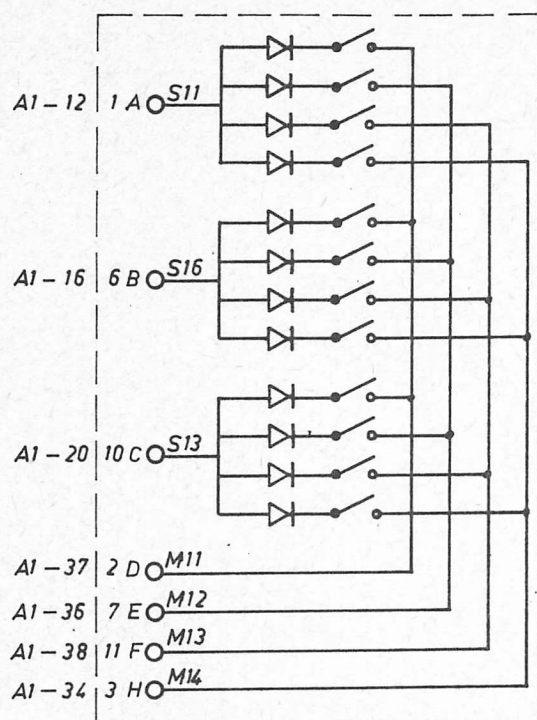
Sk6 = enkel stroom/dubbel stroom

Sk7 = verbreken gevoelig / ongevoelig

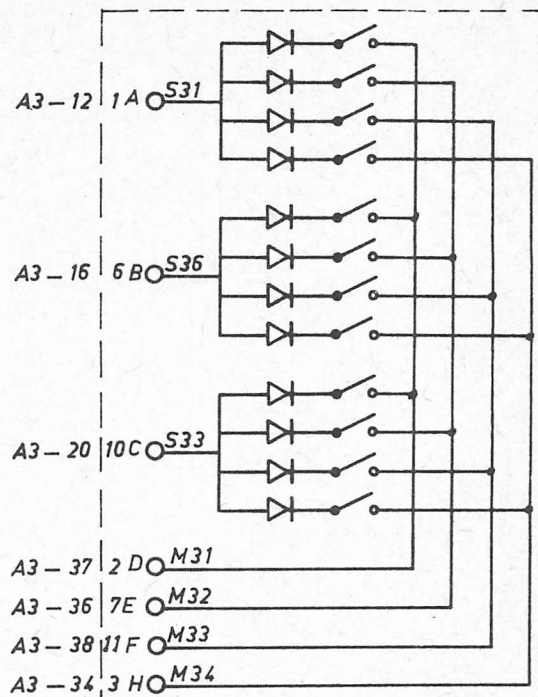
14pBurndy connector
connector 31 in V.O.T

Connector nr
Kcart-unit

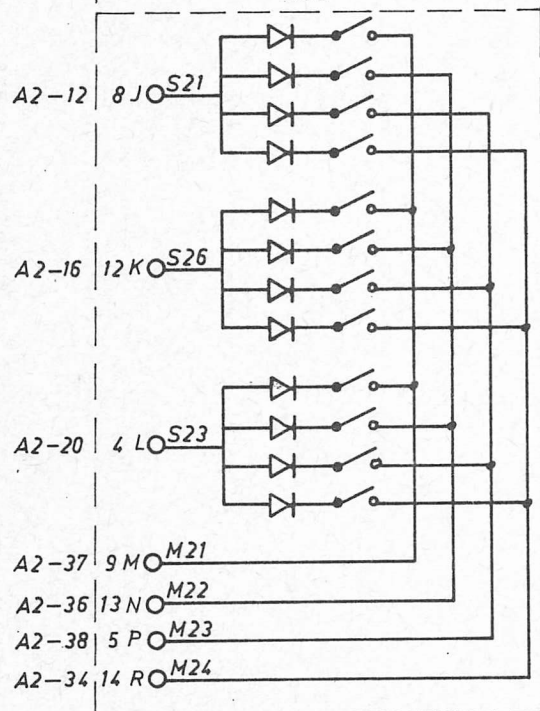
DU 1



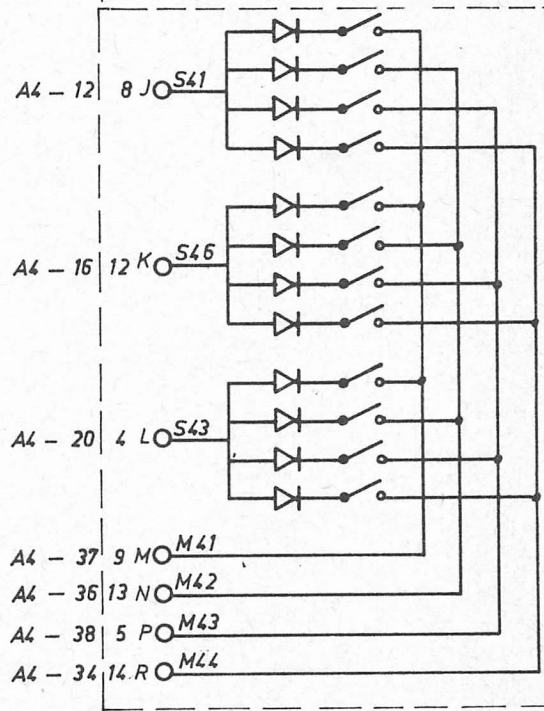
DU 3



DU 2



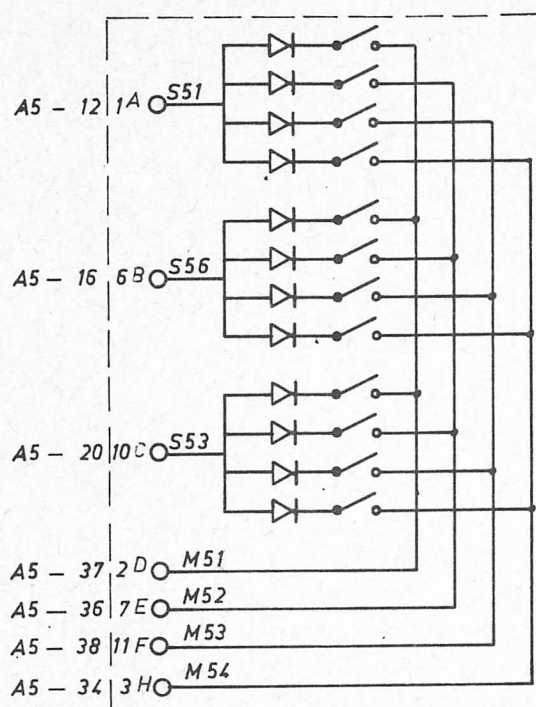
DU 4



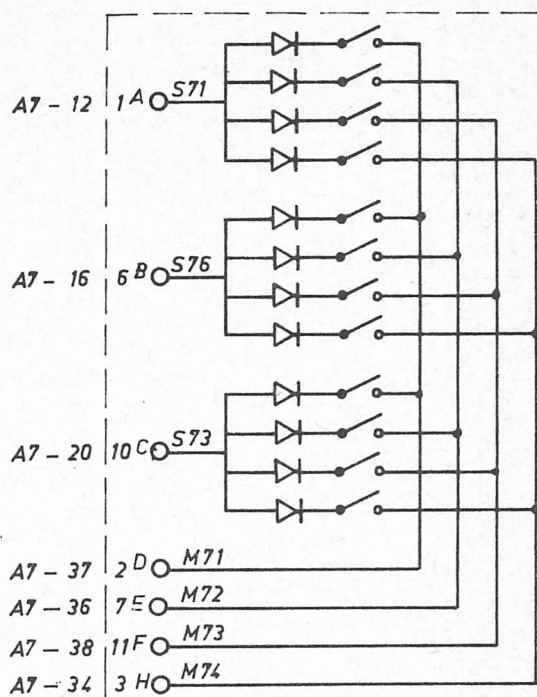
NAAR CONNECTOR 28 IN KAARTENHOUDER

NAAR CONNECTOR 29 IN KAARTENHOUDER

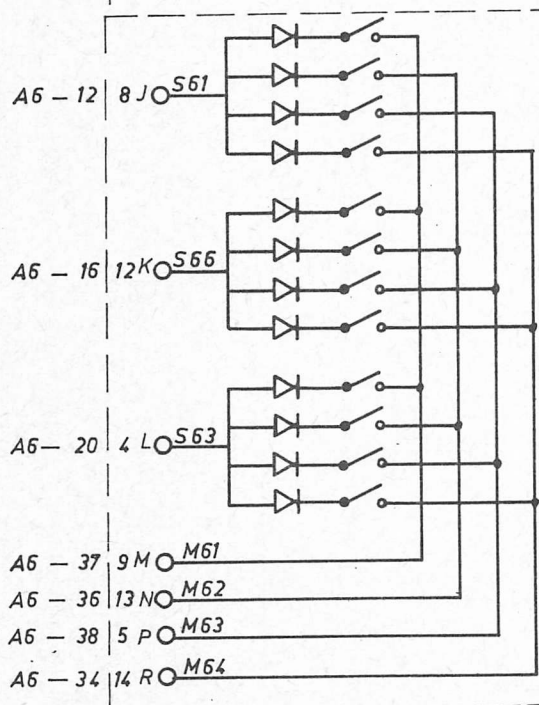
DU 5



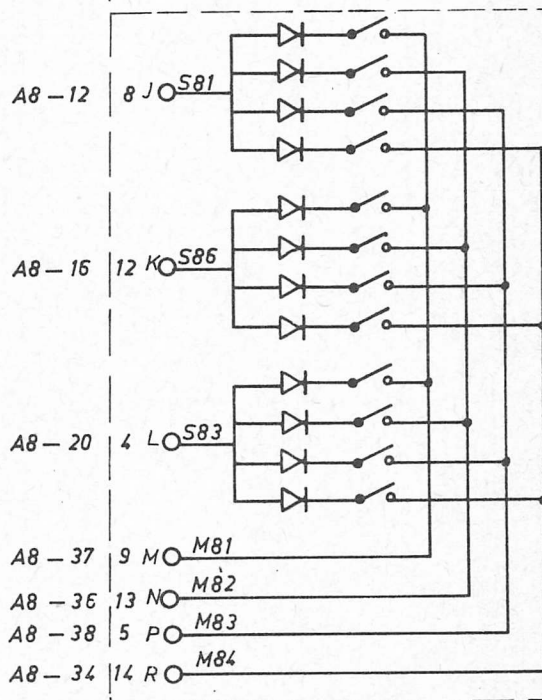
DU 7



DU 6



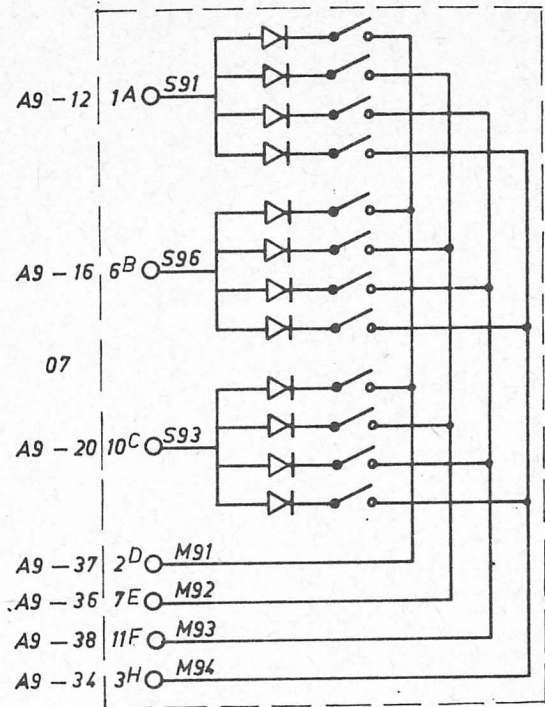
DU 8



NAAR CONNECTOR 30 IN KAARTENHOUDER

NAAR CONNECTOR 33 IN KAARTENHOUDER

DU 9



NAAR CONNECTOR 34 IN KAARTENHOUDER

SCHAKELSTANDEN PER DUIMWIEL			
	Schak. 1	Schak. 2	Schak. 3
	Mn	Mn	Mn
Stand			
0=8	0	0	0
1=9	1	0	0
2	0	1	0
3	1	1	0
4	0	0	1
5	1	0	1
6	0	1	1
7	1	1	1

Sleutelinsteleenheid van voren gezien

	D	U	1		D	U	4		D	U	7
11	12	13	14	41	42	43	44	71	72	73	74
	D	U	2		D	U	5		D	U	8
21	22	23	24	51	52	53	54	81	82	83	84
	D	U	3		D	U	6		D	U	9
31	32	33	34	61	62	63	64	91	92	93	94

A ₄		A ₃		A ₂		A ₁	
3-35	5-1	2-35	2-1	1-35	1-1	10-27	2-1
23	1	23	10-33	23	3-1	23	1
	5-4		4-4		3-4		2-4
24	2	24	2	24	2	24	2
3-25	3-3	2-25	2-3	1-25	1-3	10-35	2-3
5-25	5-3	4-25	4-3	3-25	3-3	2-25	3
25	3	25	3	25	3	25	3
3-26	3-2	2-26	2-2	1-26	1-2	2-26	10-42
5-26		4-26		3-26			
26	4	26	4	26	4	26	4
3-5	5-27	2-5	4-27	1-5	3-27		2-27
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38-27	3-6	38-10	2-6	38-18	1-6	10-24	2-6
	5-6		4-6		3-6		
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3-31		2-31		1-31		38-1	
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11-37		11-38		11-39		11-40	
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3-32		2-32		1-32		2-32	
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29-13		29-7		28-13		28-7	
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29-9		29-2		28-9		28-2	
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38	16	38	16	38	16	38	15
3-39		2-39		1-39		2-39	
5-39		4-39		3-39			
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3-40		2-40		1-40		2-40	
10-25		4-40		3-40			
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3-41		2-41		1-41		2-41	
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	29-4		29-10		28-4		28-10
42	20	42	20	42	20	42	20
			41-2				41-1
43	21	43	21	43	21	43	21
			40-3				40-1
44	22	44	22	44	22	44	22

A 8		A 7		A 6		A 5	
7-35	7-1 9-1	6-35	6-1 8-1	5-35	5-1 7-1	4-35	4-1 6-1
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7-5 9-27	9-27	6-5 8-27	8-27	5-5 7-27	7-27	4-5 6-27	6-27
27	5	27	5	27	5	27	5
38-28 7-6 9-6	7-6 9-6	38-11 6-6 8-6	6-6 8-6	38-19 5-6 7-6	5-6 7-6	38-2 4-6 6-6	4-6 6-6
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7-32 9-32	9-32	6-32 8-32	8-32	5-32 7-32	7-32	4-32 6-32	6-32
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7-33 9-33	9-33	6-33 8-33	8-33	5-33 7-33	7-33	4-33 6-33	6-33
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33-14 33-8	33-8	33-3 33-1	33-1	30-14 30-8	30-8	30-3 30-1	30-1
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33-9	33-9	33-2	33-2	30-9	30-9	30-2	30-2
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23 13-23 1	8-30 10-23 23 1	11-1 13-6 23 1	8-35 8-1 10-15 23 1
24 2	21-15 9-30 24 2	1-28 11-28 24 2	10-32 24 2
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27 5	15-4 16-6 27 5	1-23 9-32 11-19 27 5	8-5 27 5
28 6	10-2 17-42 28 6	8-41 16-24 28 6	38-3 8-5 10-41 28 6
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30 8	21-26 30 8	31-7 19-5 30 8	11-2 30 8
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40	18	40	18	40	18	40	18
	22-15	18-25	11-19 39-14	17-1	17-7 21-14	18-16 15-37	39-28
41	19	41	19	41	19	41	19
	39-6 18-42		9-26	20-20 19-29	17-20 24-17	21-36 11-6	18-20
42	20	42	20	42	20	42	20
			41-18				41-16
43	21	43	21	43	21	43	21
			40-19				40-16
20-24	44	44	22	44	22	44	22

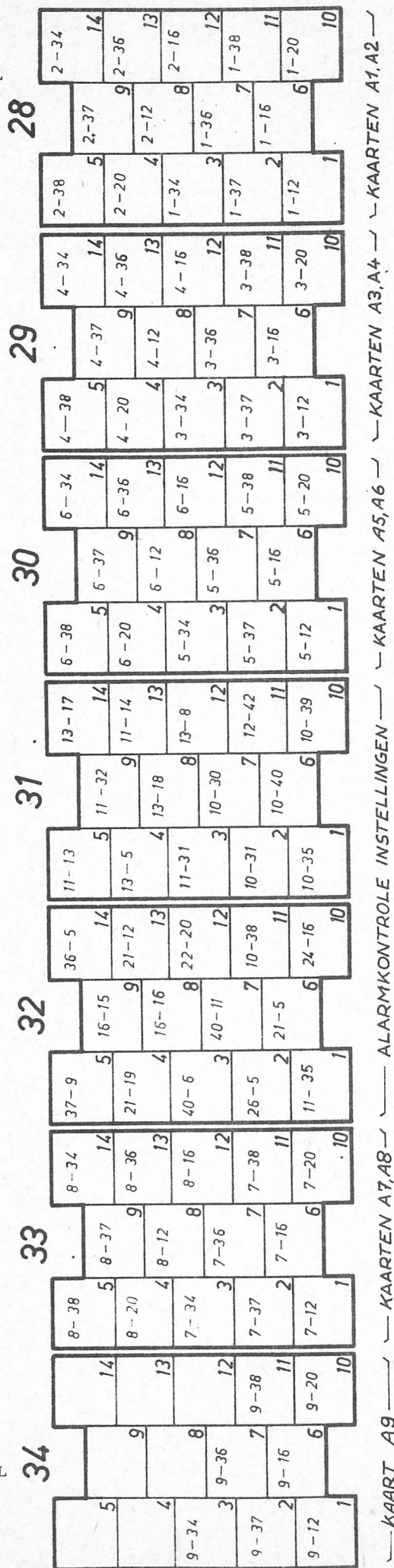
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23 1	21-29 23 1	17-9 35-15 23 1	23 1	22-36 35-16 23 1
24 2	22-34 35-11 24 2	17-8 35-1 24 2	24 2	35-17 36-3 24 2
25 3	22-8 18-38 25-15 25 3	17-34 35-14 25 3	25 3	35-9 24-39 25 3
26 4	21-27 20-7 22-38 26 4	17-32 35-8 26 4	26 4	11-8 11-4 23-28 26 4
27 5	22-19 25-17 21-5 27 5	17-10 35-22 27 5	27 5	24-37 21-30 20-25 24-26 22-6 27 5
28 6	39-15 21-36 20-30 39-29 28 6	21-26 35-24 24-35 28 6	28 6	21-6 39-3 18-37 22-6 28 6
29 7	20-27 21-39 29 7	35-1 29 7	29 7	20-26 24-23 19-16 11-31 25-16 29 7
25-18 39-2 30 8	23-11 30 8	20-28 39-7 30 8	24-25 21-9 30 8	22-5 18-36 20-8 22-35 30 8
31 9	22-39 39-11 31 9	39-32 20-6 31 9	21-31 31 9	22-9 22-8 20-31 20-14 31 9
32 10	21-35 32 10	32 10	35-18 20-32 32 10	22-18 24-15 18-28 32 10
33 11	21-17 17-23 39-33 33 11	33 11	35-5 20-13 33 11	22-15 22-39 17-3 33 11
34 12	39-25 18-4 21-18 34 12	34 12	24-24 20-33 39-30 34 12	15-23 32-13 34 12
35 13	23-28 18-16 35 13	24-40 35 13	21-8 35 13	24-10 17-5 20-11 35 13
36 14	21-38 21-40 25-20 36 14	36-2 36 14	21-23 15-38 25-18 36 14	24-6 18-19 17-42 39-18 36 14
37 15	22-5 21-10 37 15	37 15	16-25 21-33 39-24 20-19 37 15	20-15 11-24 25-41 37 15
21-7 39-4 38 16	16-18 32-10 38 16	16-14 38 16	24-26 39-5 39-26 21-16 38 16	24-35 22-16 20-5 38 16
24-5 39-10 39 17	35-2 18-20 21-3 39 17	35-21 39 17	24-9 16-32 21-11 39 17	24-7 15-39 16-11 24-33 39 17
22-36 25-30 40 18	23-13 17-24 40 18	20-35 40 18	20-17 21-32 40 18	19-1 24-34 24-14 17-37 40 18
21-37 19-13 39-23 41 19	13-3 17-26 41 19	15-39 41 19	24-27 41 19	20-37 32-4 39-1 41 19
24-14 42 20	13-2 17-25 42 20	42 20	32-12 42 20	15-19 18-5 42 20
43 21	43 21	43 21	43 21	43 21
44 22	44 22	44 22	44 22	44 22

U
27

23	1
24	2
25	3
26	4
27	5
28	6
29	7
30	8
31	9
32	10
33	11
34	12
35	13
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38	16
39	17
40	18
41	19
42	20
43	21
44	22

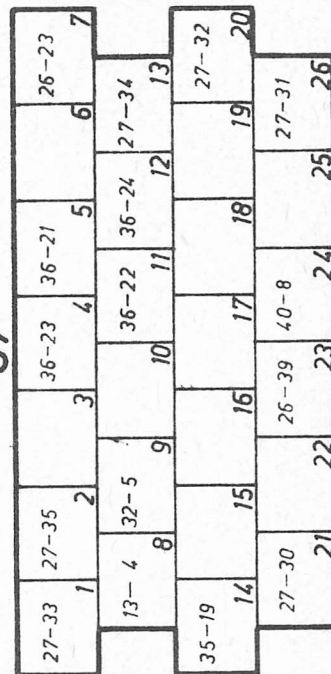
T
26

37-7	
23	1
24	2
25	3
26	4
27	5
28	6
29	7
30	8
31	9
32	10
33	11
34	12
35	13
36	14
37	15
38	16
39	17
40	18
41	19
42	20
43	21
44	22



SLEUTELINSTELEENHEID

37



BETEKENIS CONNECTOR NUMMERS
IN KAARTENHOUDER:
1 t/m 9 KAARTEN A1 t/m A9
10 t/m 27 KAARTEN B t/m U
28 t/m 34 SLEUTELINSTELEENHEID
35 NETFILTER
36 LIJNFILTER
37 TRANSFORMATOREENHEID
38 MEETPUNTEN RECHTS
39 MEETPUNTEN LINKS
40 0 VOLT RAIL
41 + 6 VOLT RAIL

35

	40-23 36-26		40-22 36-25
39-19	20	39-34	7
26	37-14	13	27-30
20-1	19	40-24	6
25	22-32	12	22-33
23-6	18	24-2	5
24	21-24	11	20-4
20-23	17	20-2	4
23	21-23	10	20-3
23-5	16	21-25	3
22	23-1	9	24-39
23-17	15	23-4	2
21	23-3	8	23-2
	14		1

NETFILTER

36

35-20	35-7	40-18 37-12	40-17 37-4	40-15 37-11	40-14 37-5
26	25	24	23	22	21
26-40	26-40				
20	19	18	17	16	15
26-4	40-17	25-14			
13	12	11	10	9	8
26-42	26-42	32-14	21-1	21-2	23-14
7	6	5	4	3	2
					1

LUNFILTER

38

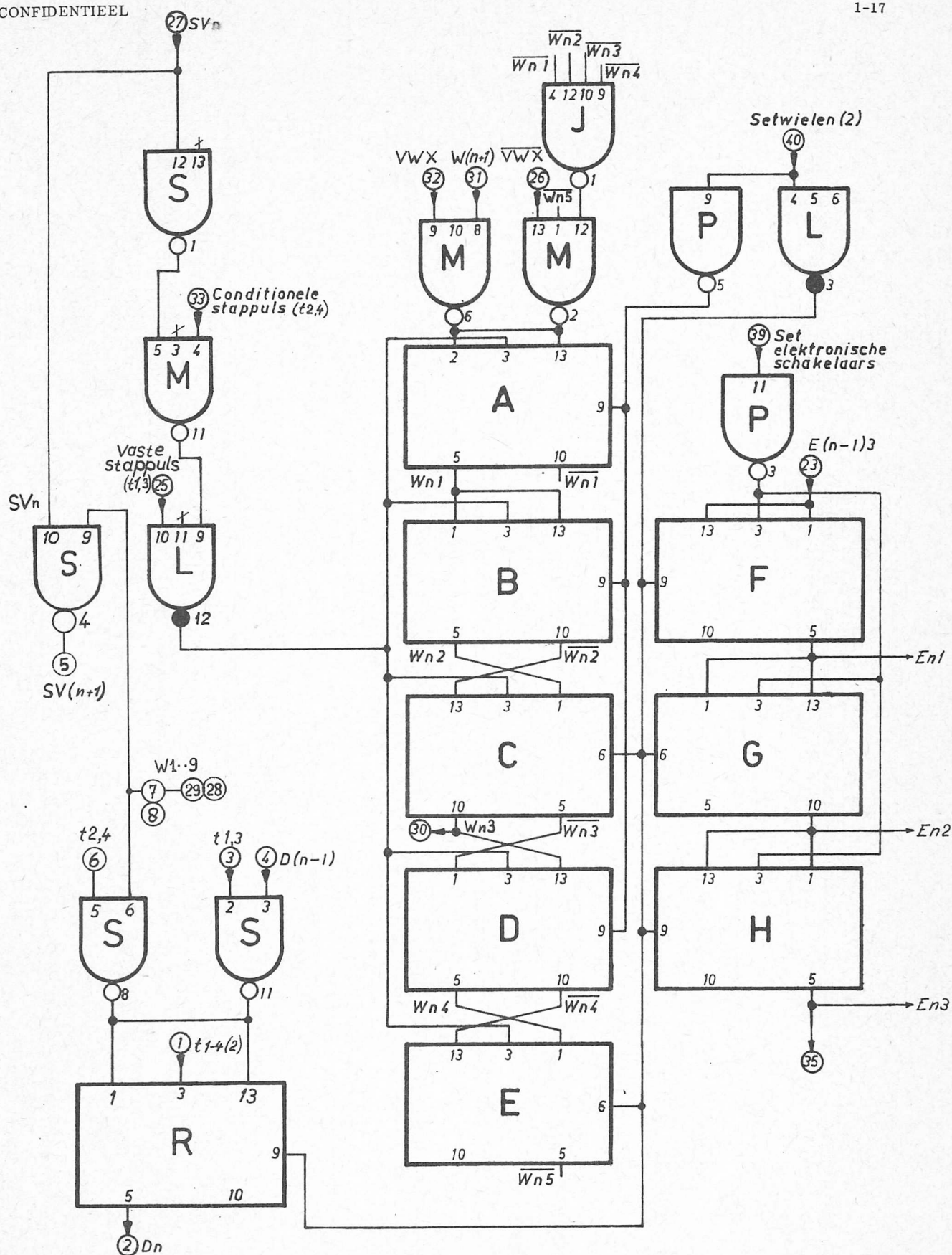
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27	28	29	30	31	32	33	34
2-28	6-28	10-9	16-8				
18	19	20	21	22	23	24	25
3-28	7-28	10-3	16-1				
10	11	12	13	14	15	16	17
1-29	5-28	9-28	10-37	40-4			
1	2	3	4	5	6	7	8
							9

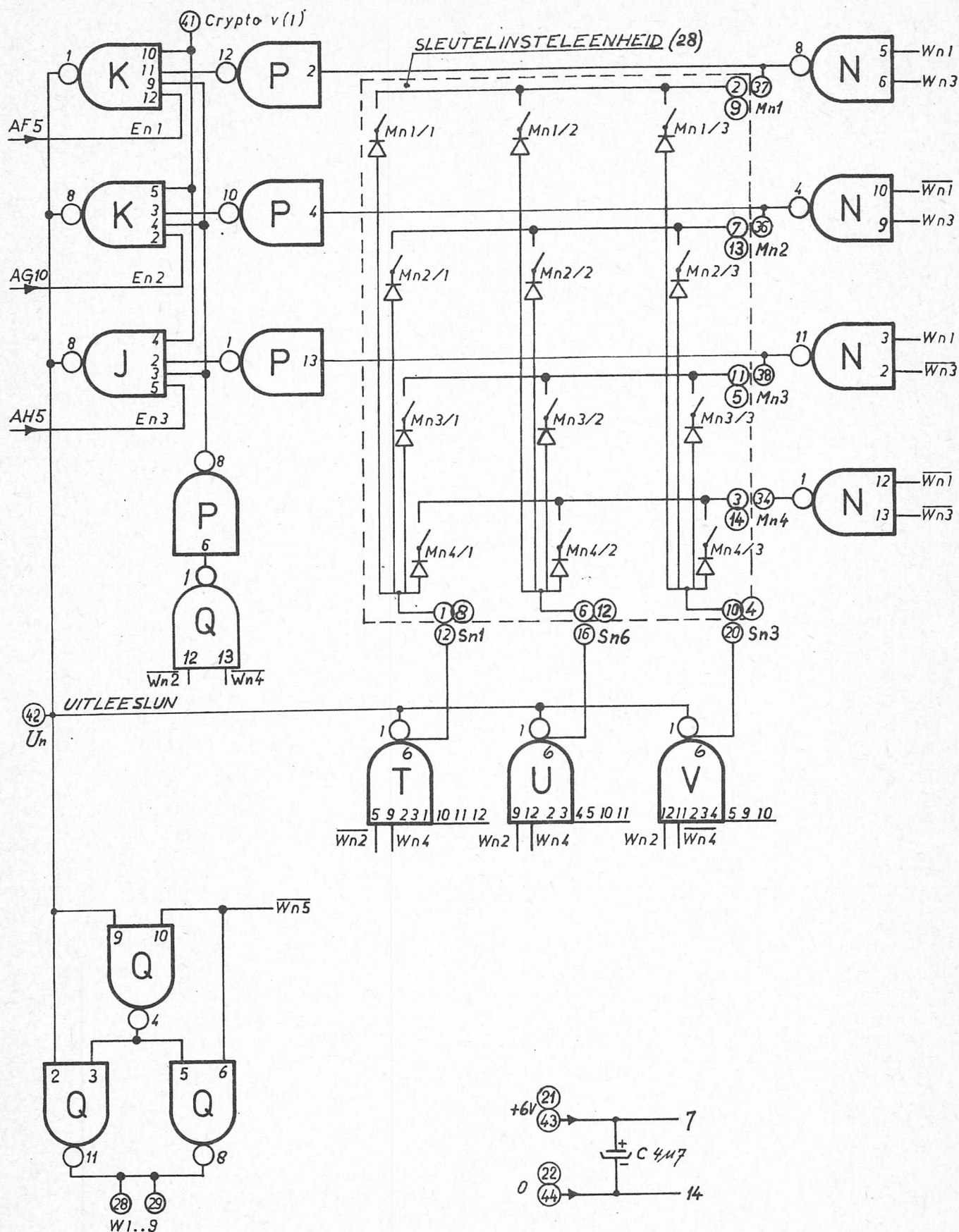
MEETPUNTEN RECHTS
(MR)

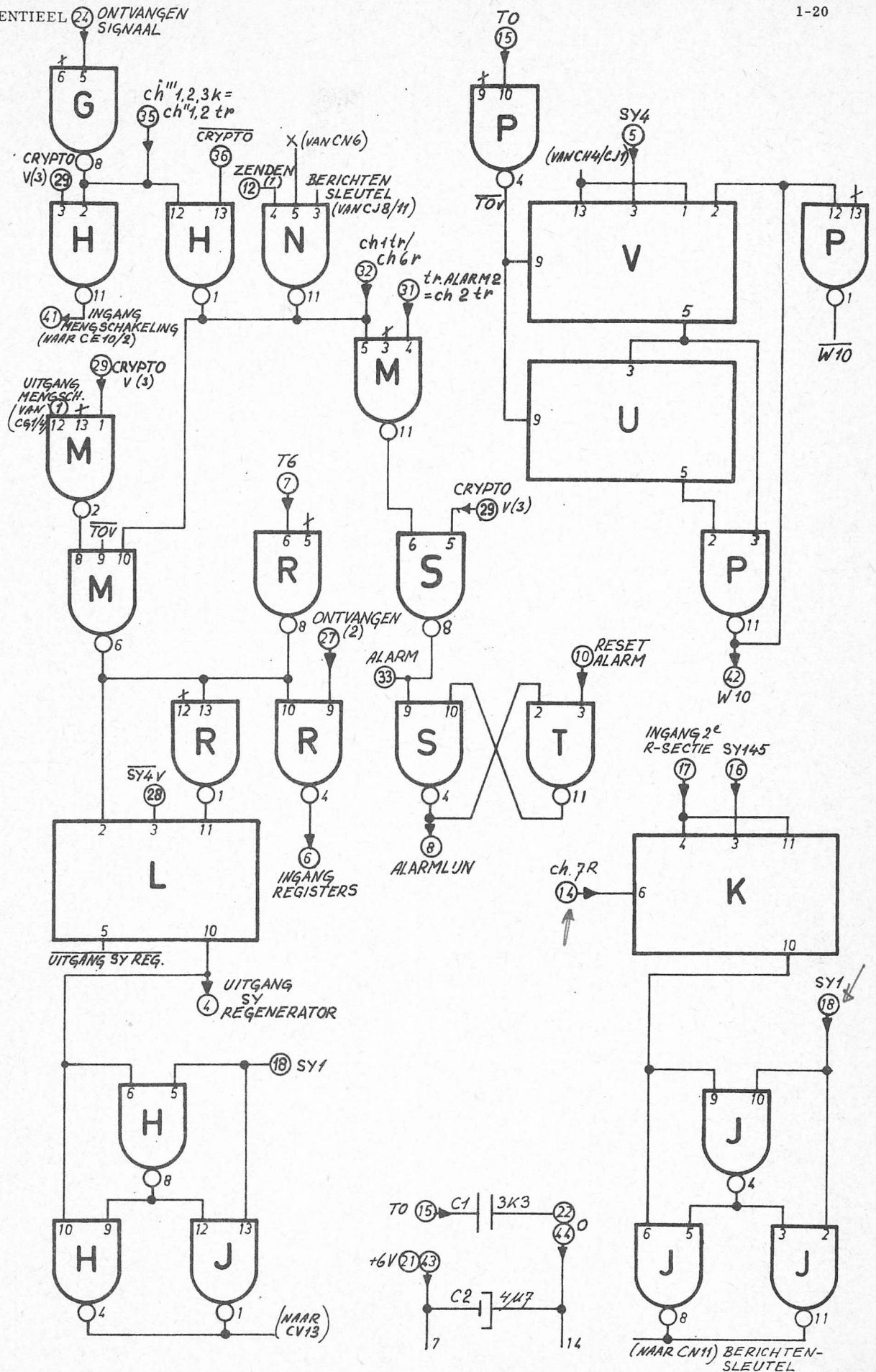
39

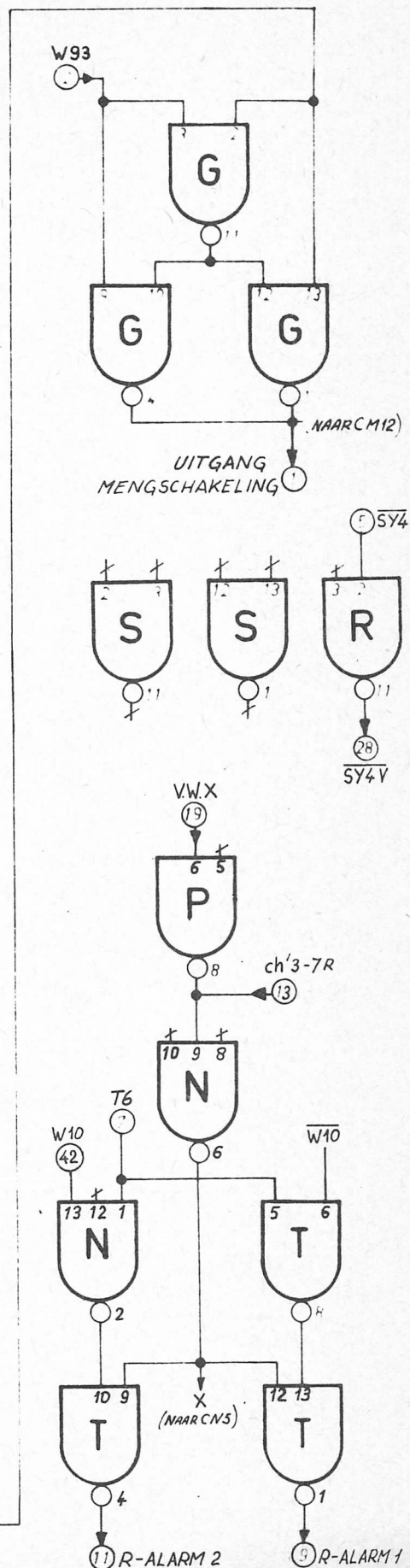
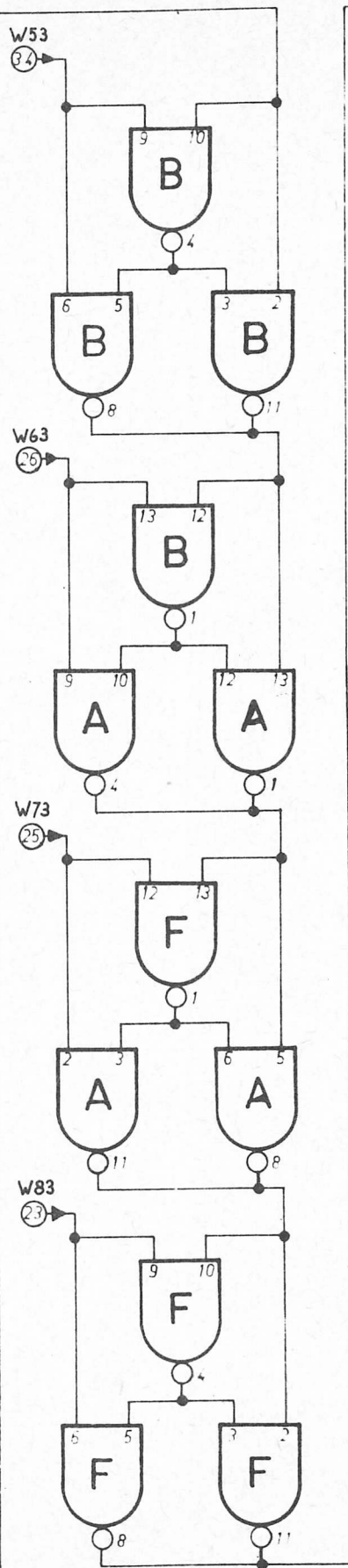
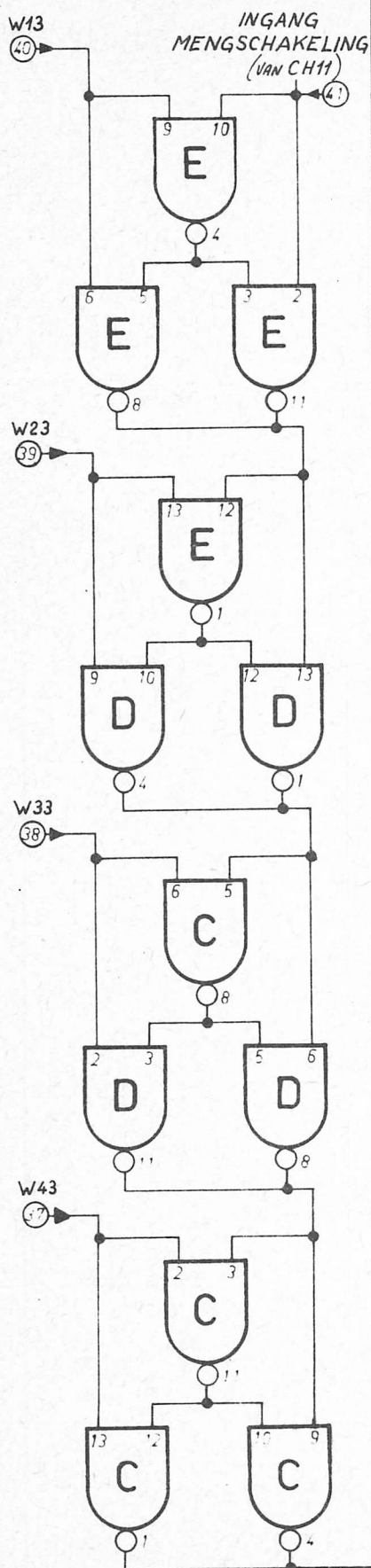
13-7	17-19	24-6	22-12	19-32	23-9	24-33	35-13
27	28	29	30	31	32	33	34
21-14	35-26	14-13	25-15	20-34	25-41	22-37	24-34
18	19	20	21	22	23	24	25
25-17	24-9	17-4	17-16	19-19	24-28	20-36	41-27
10	11	12	13	14	15	16	17
21-41	25-30	22-6	25-16	22-16	20-20	23-8	18-18
1	2	3	4	5	6	7	8
							9

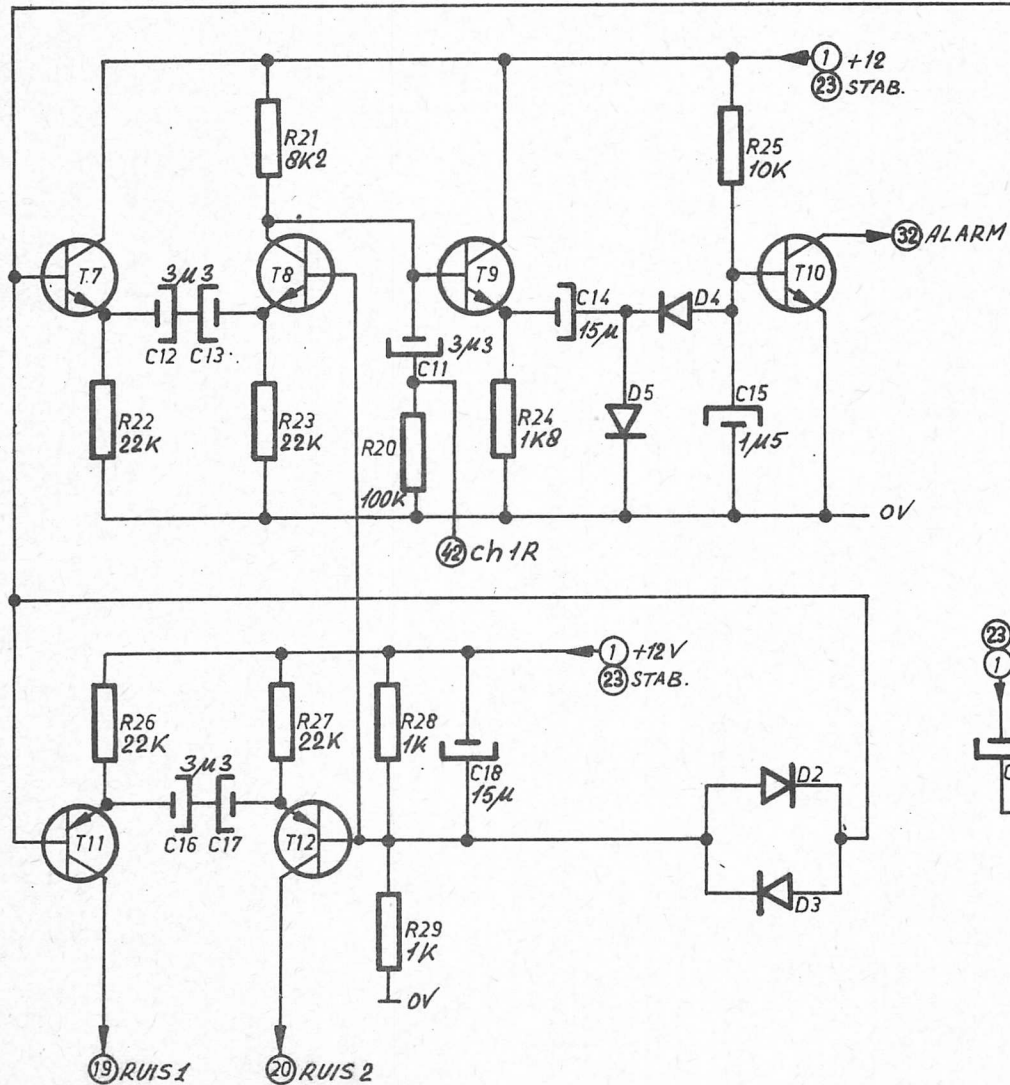
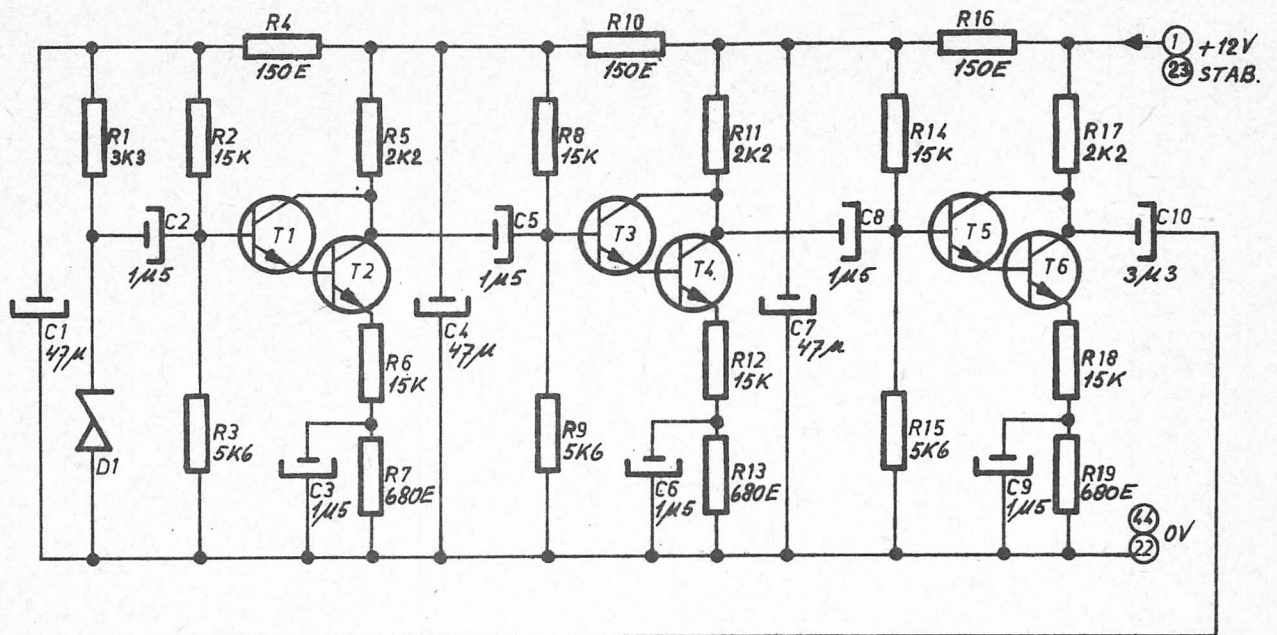
MEETPUNTEN LINKS
(ML)

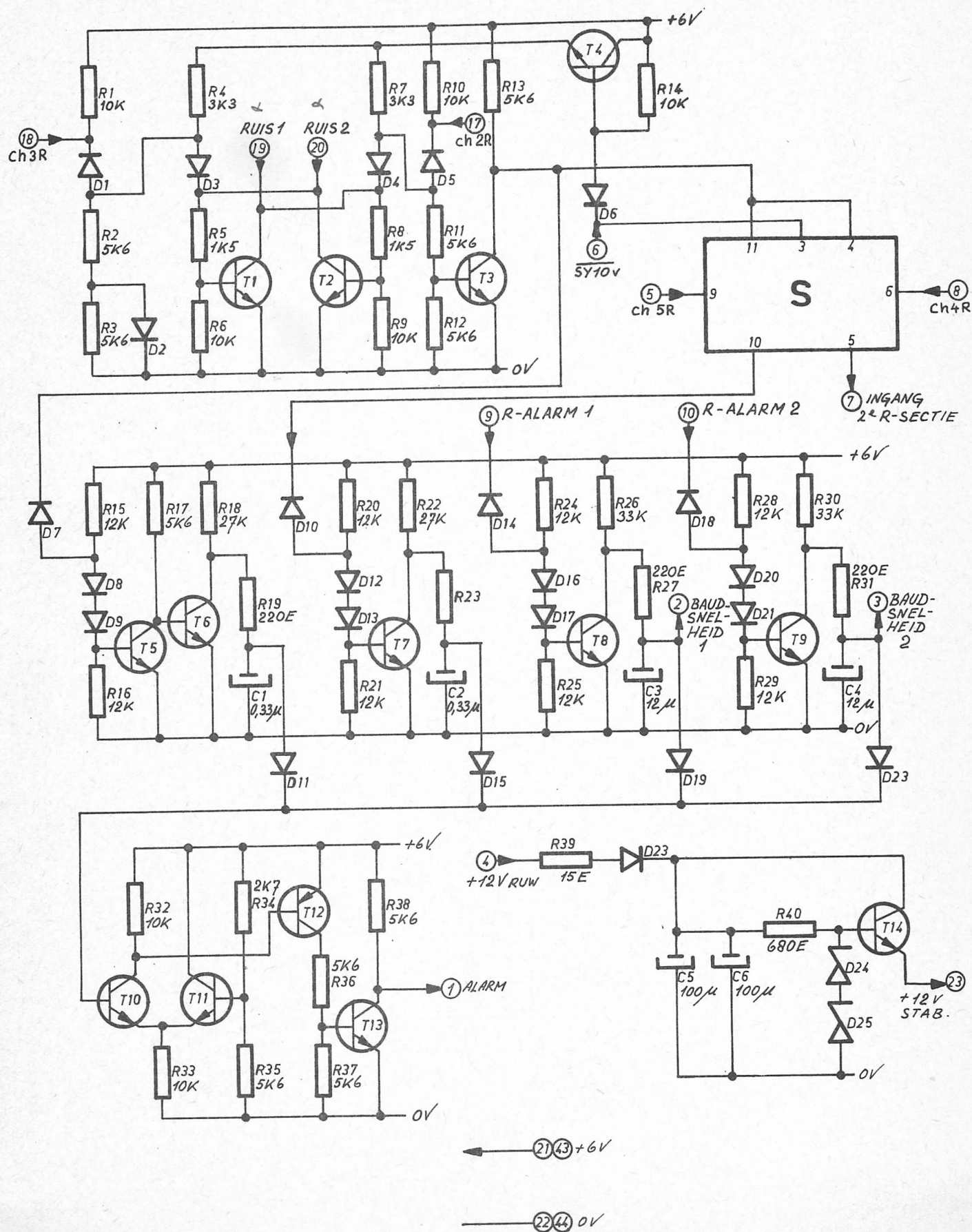


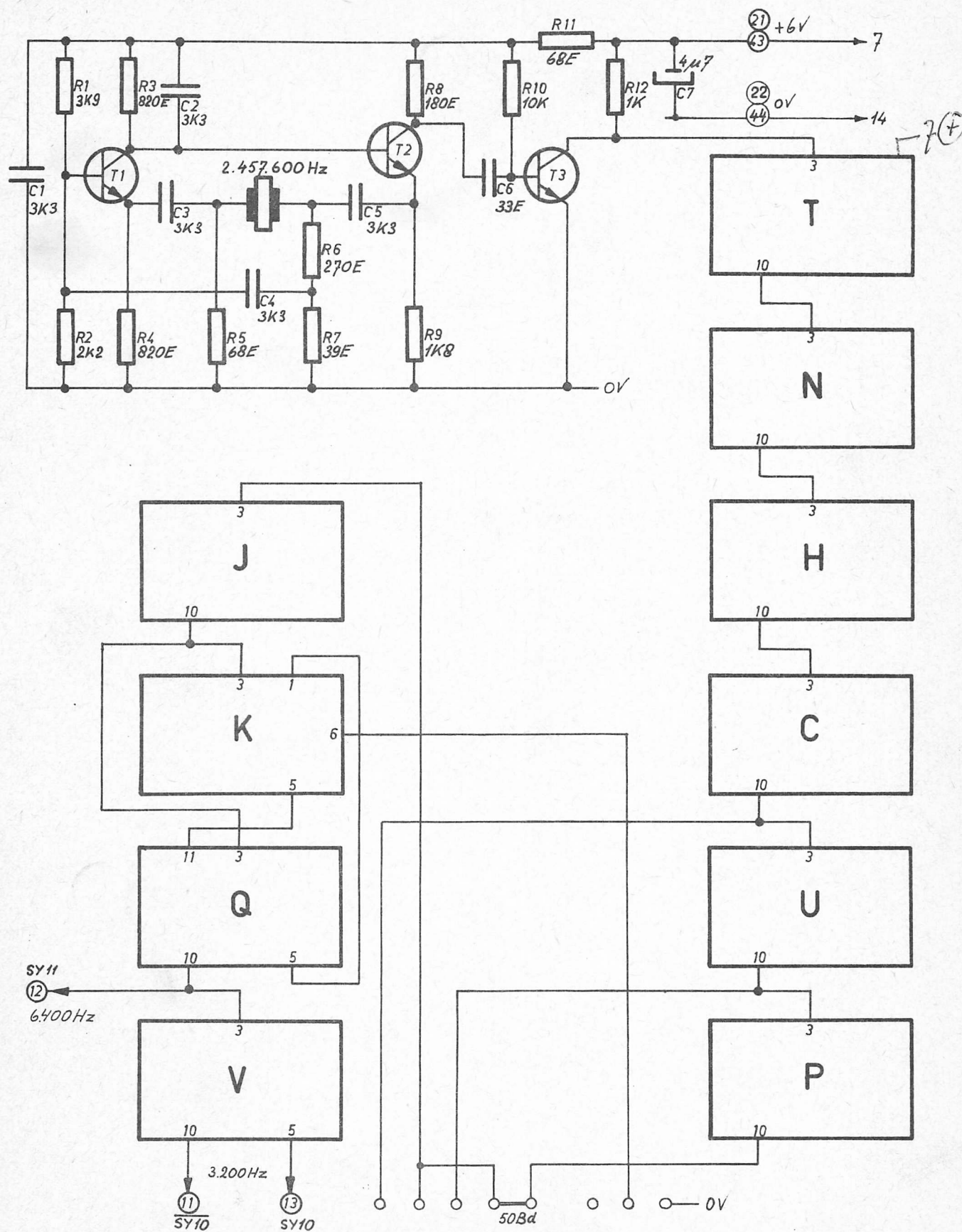




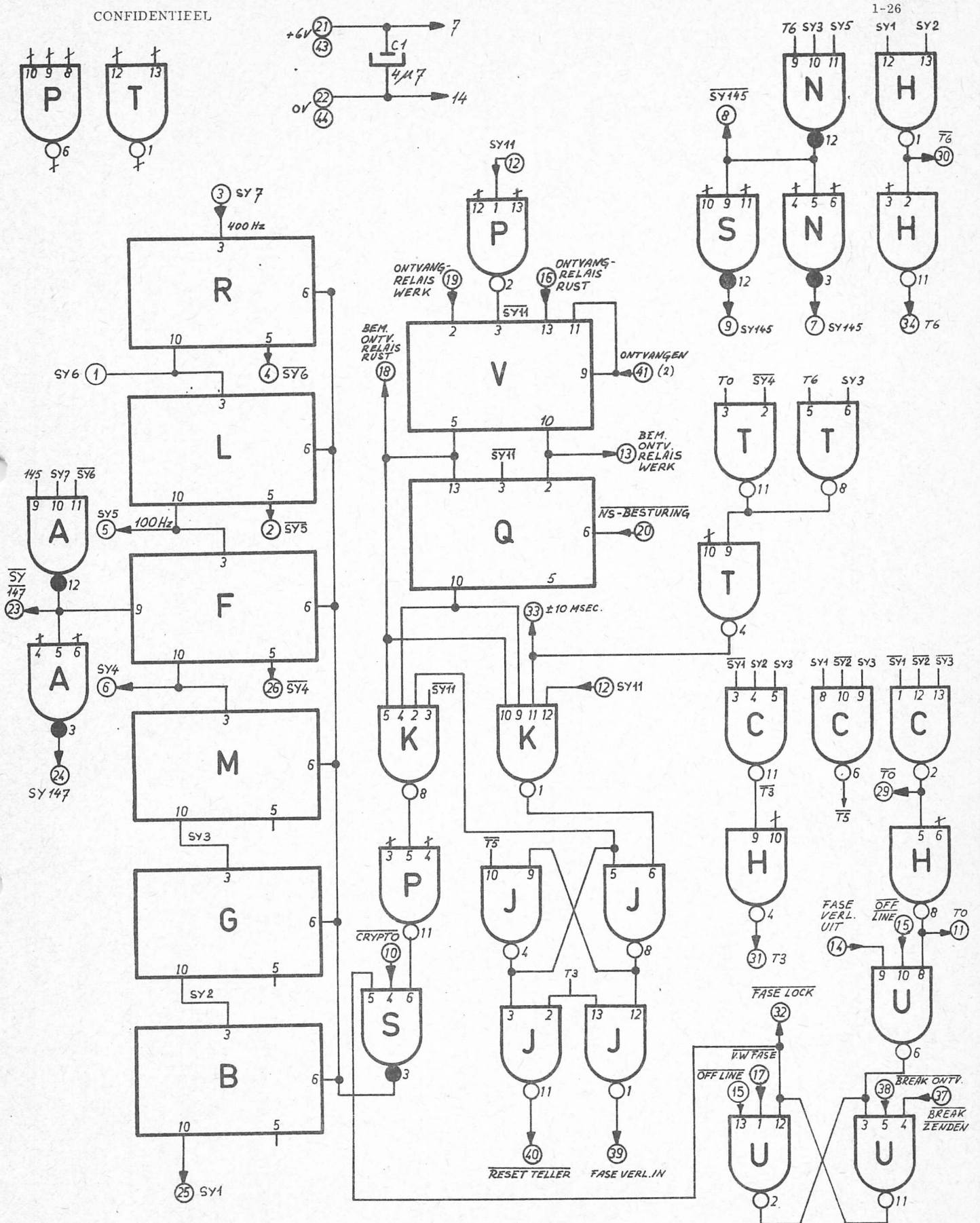








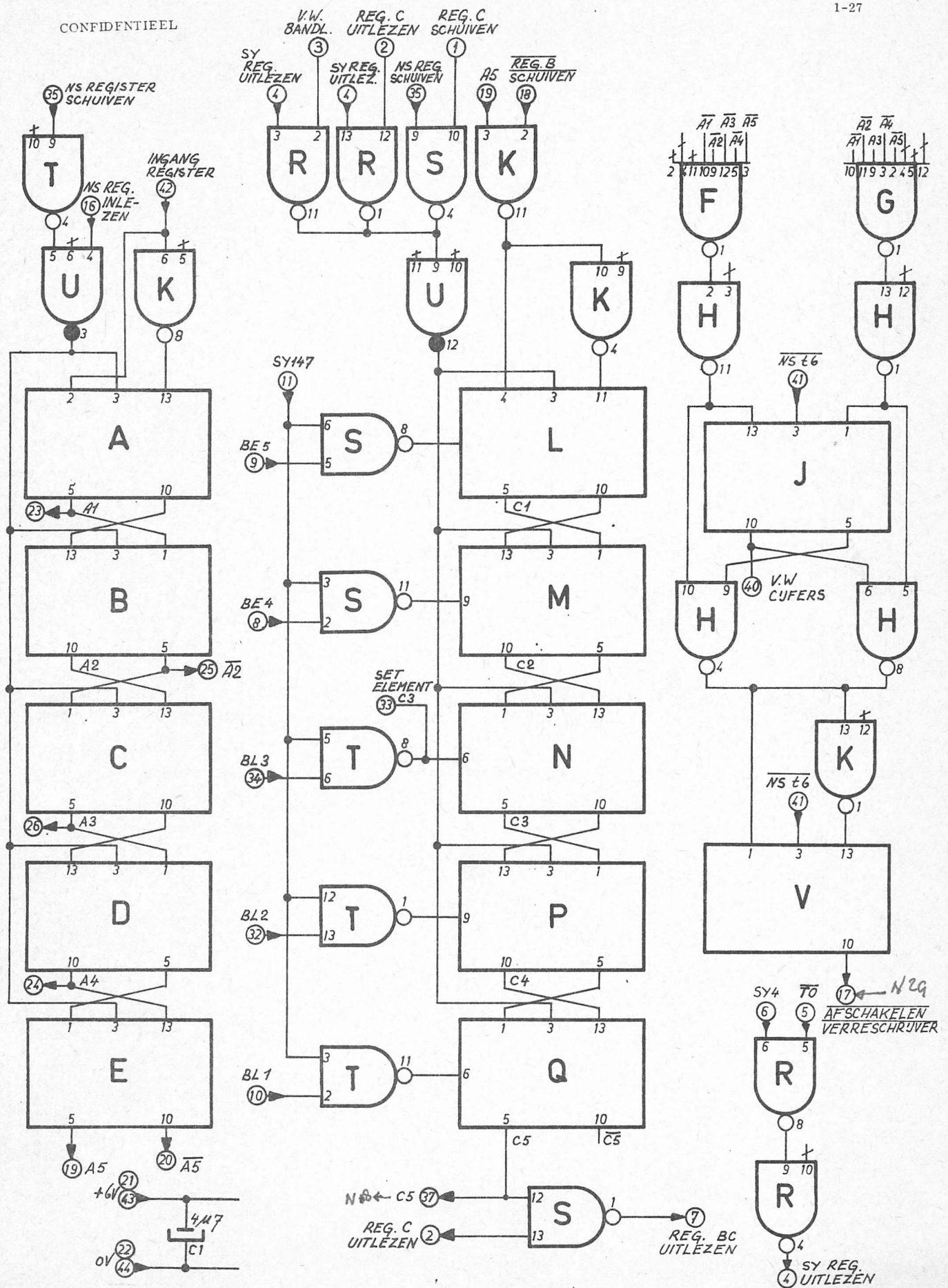
CONFIDENTIEEL

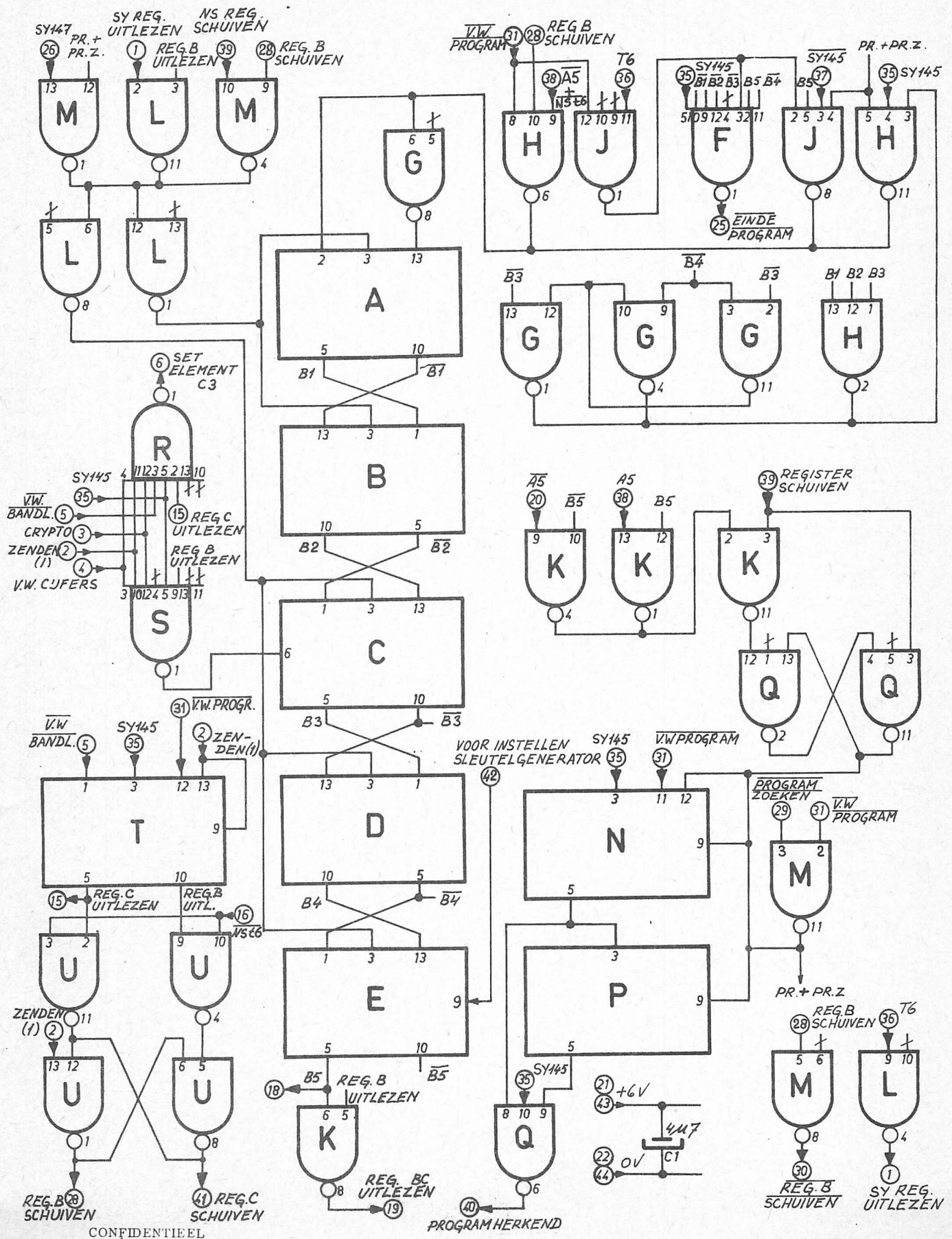


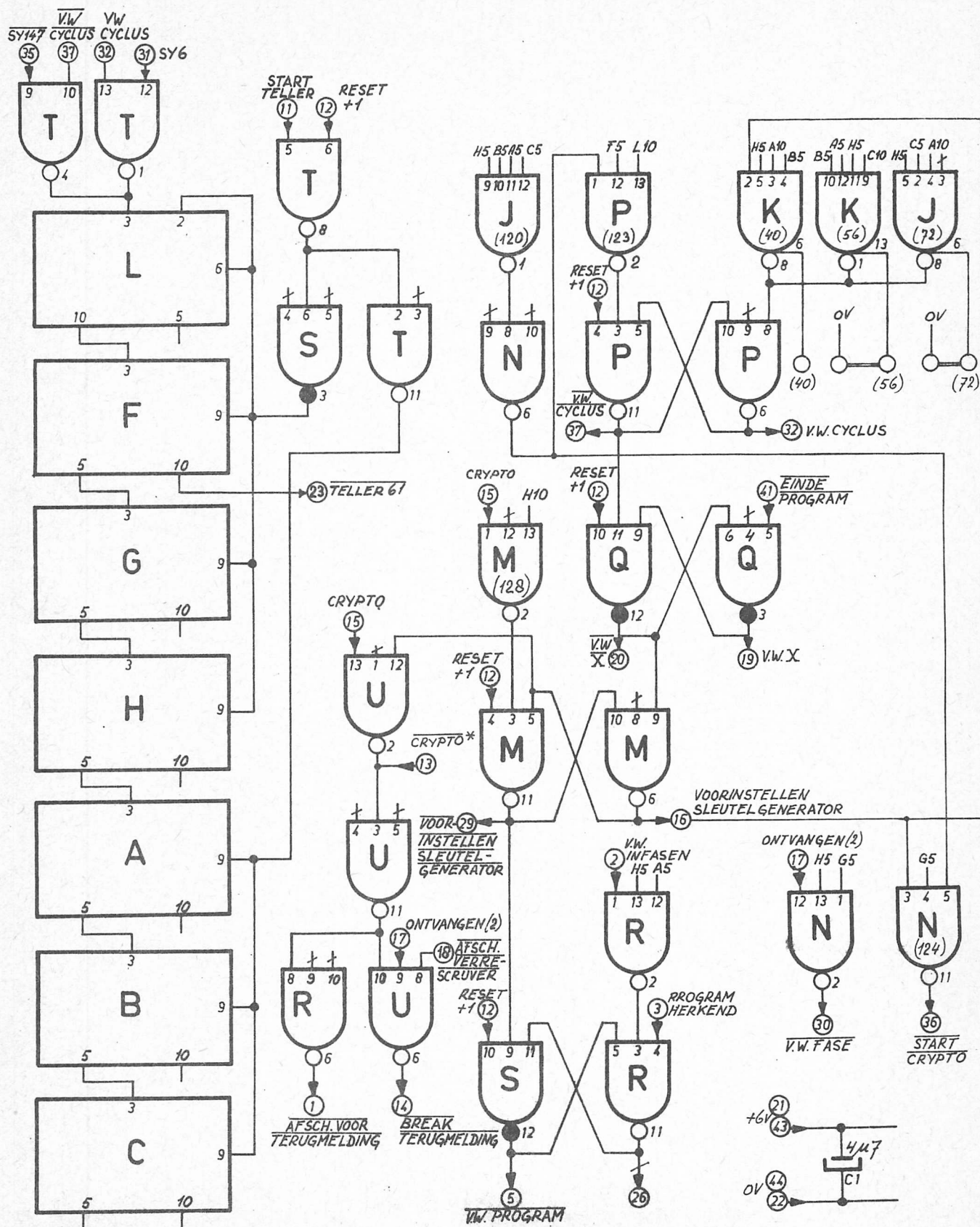
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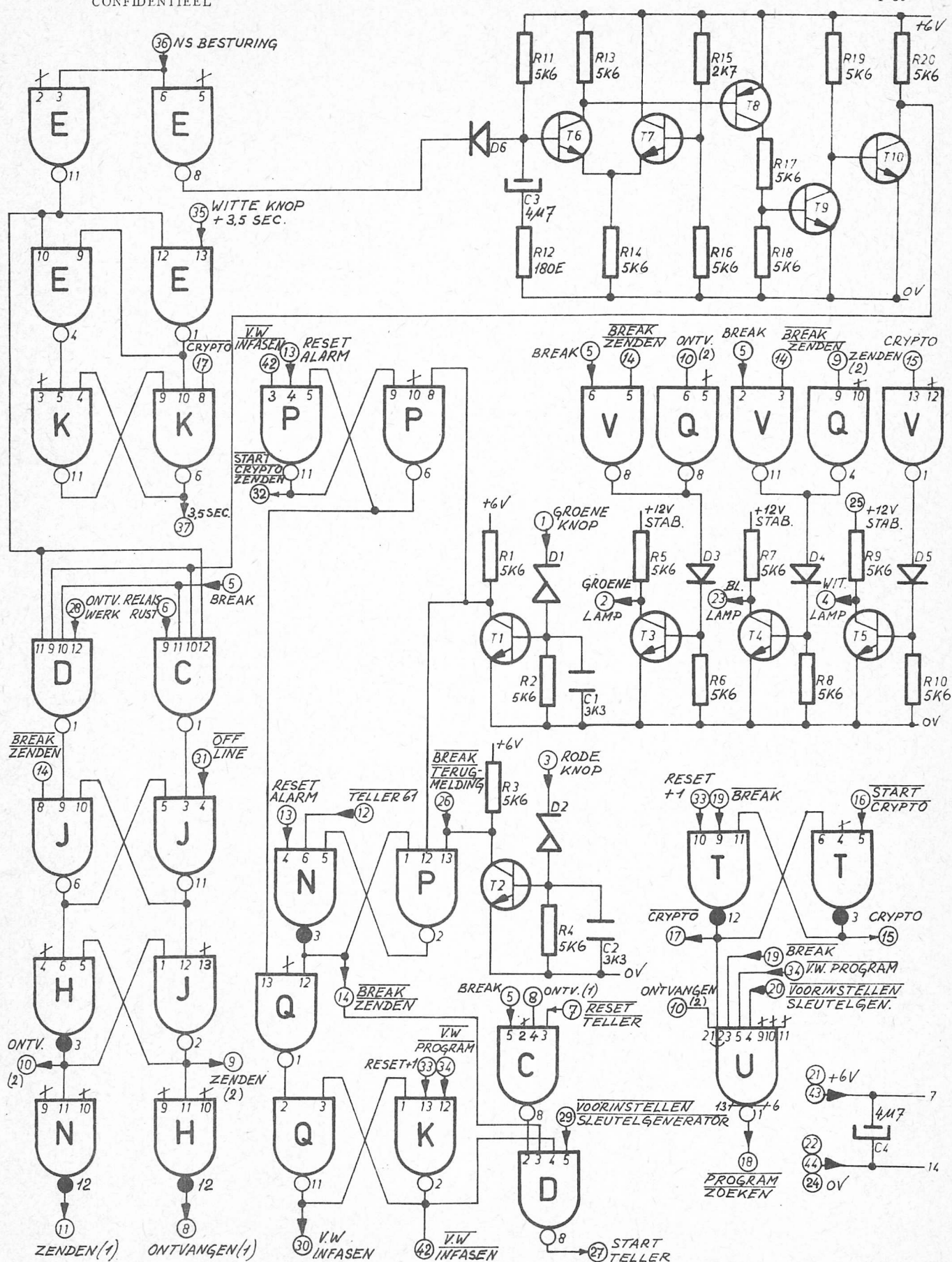
Schema 56/H

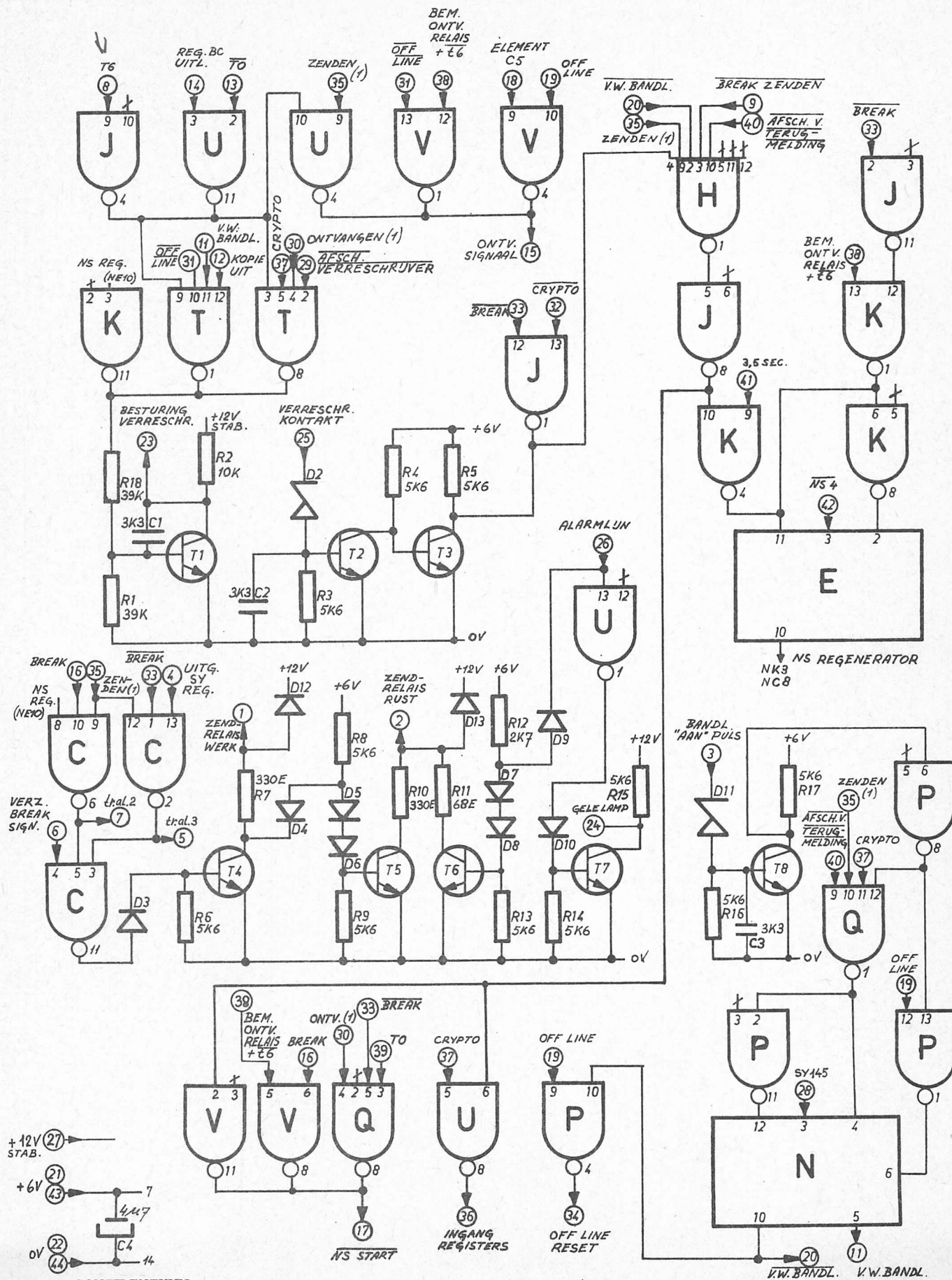
Kaart H





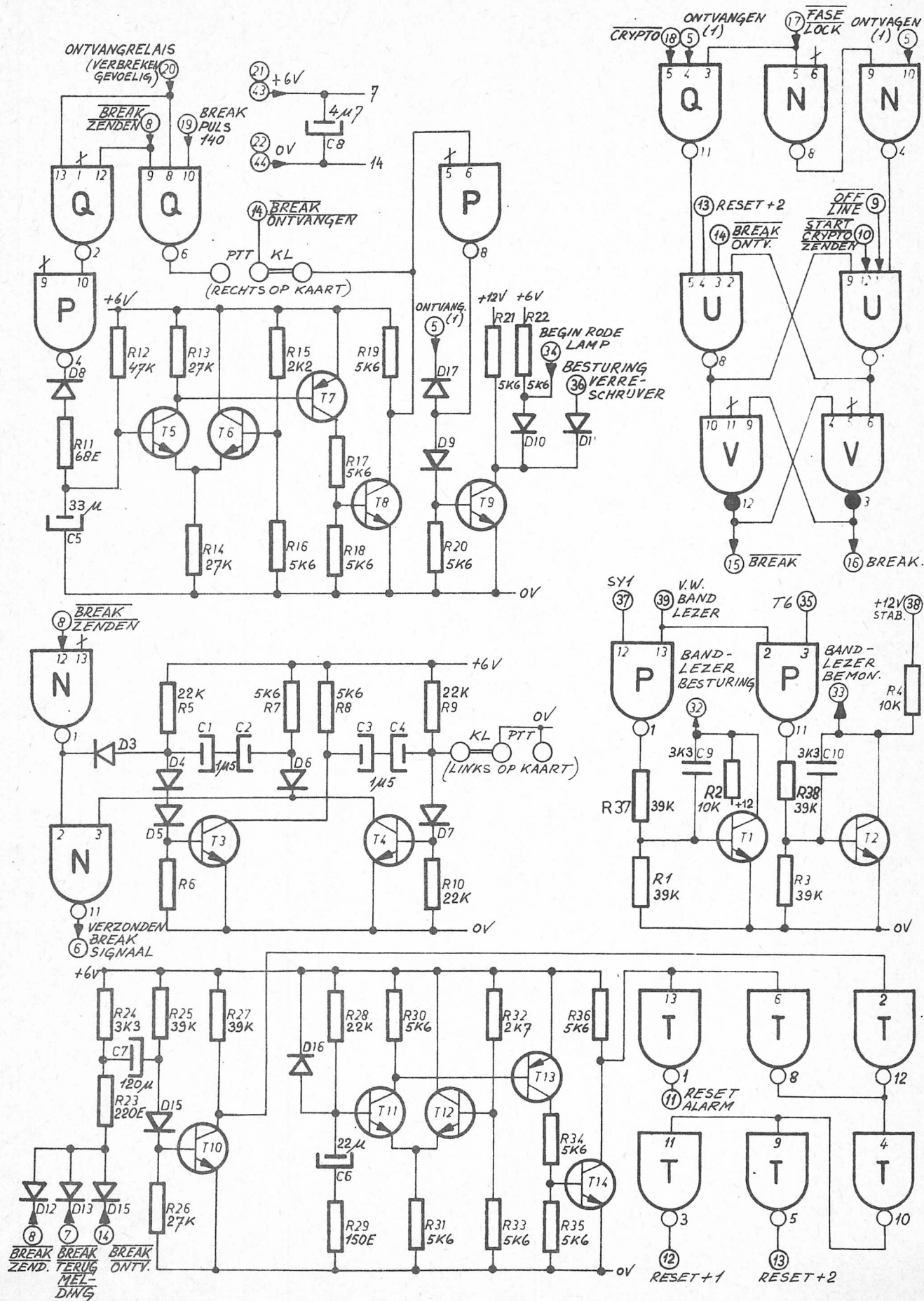


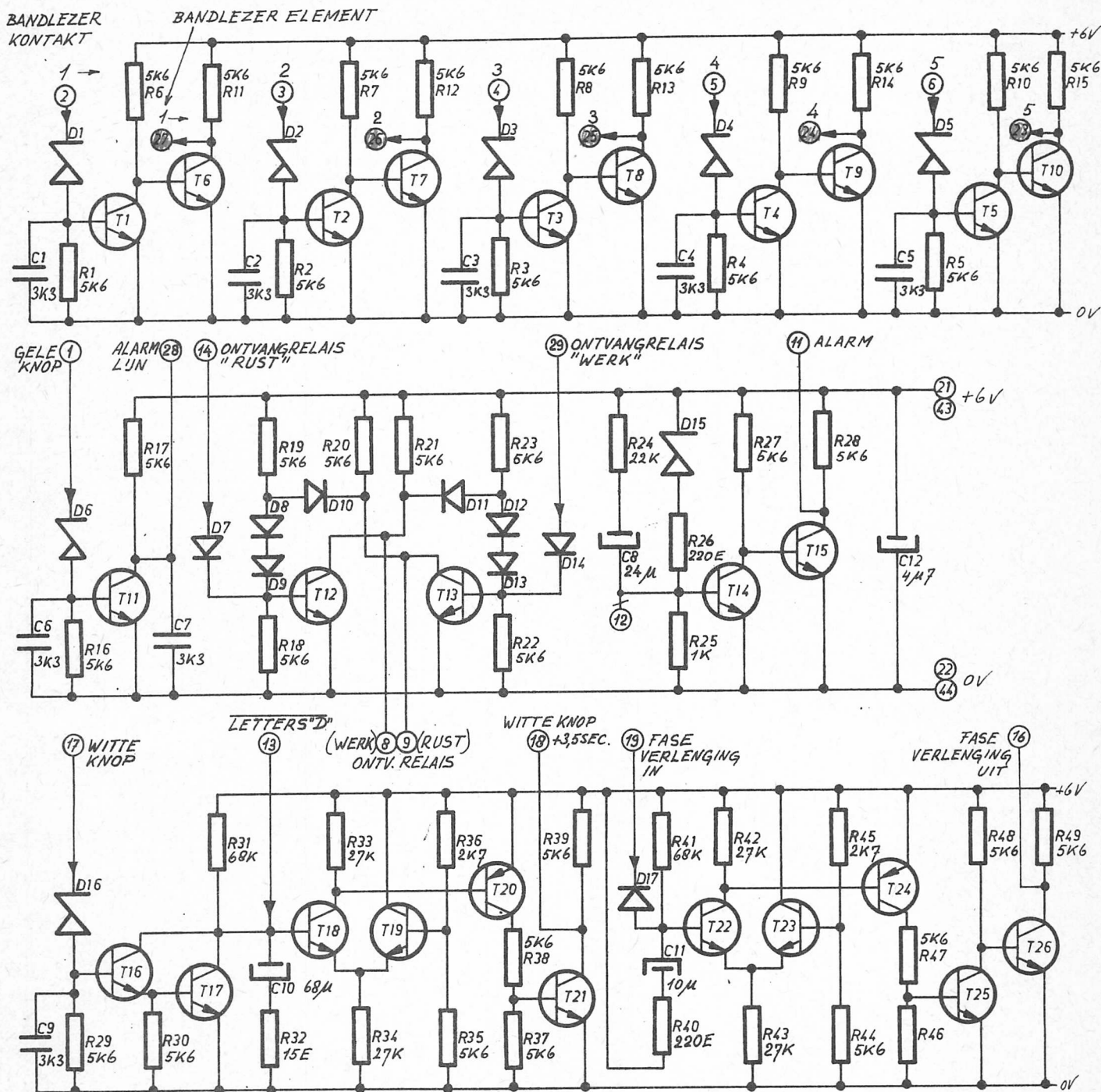


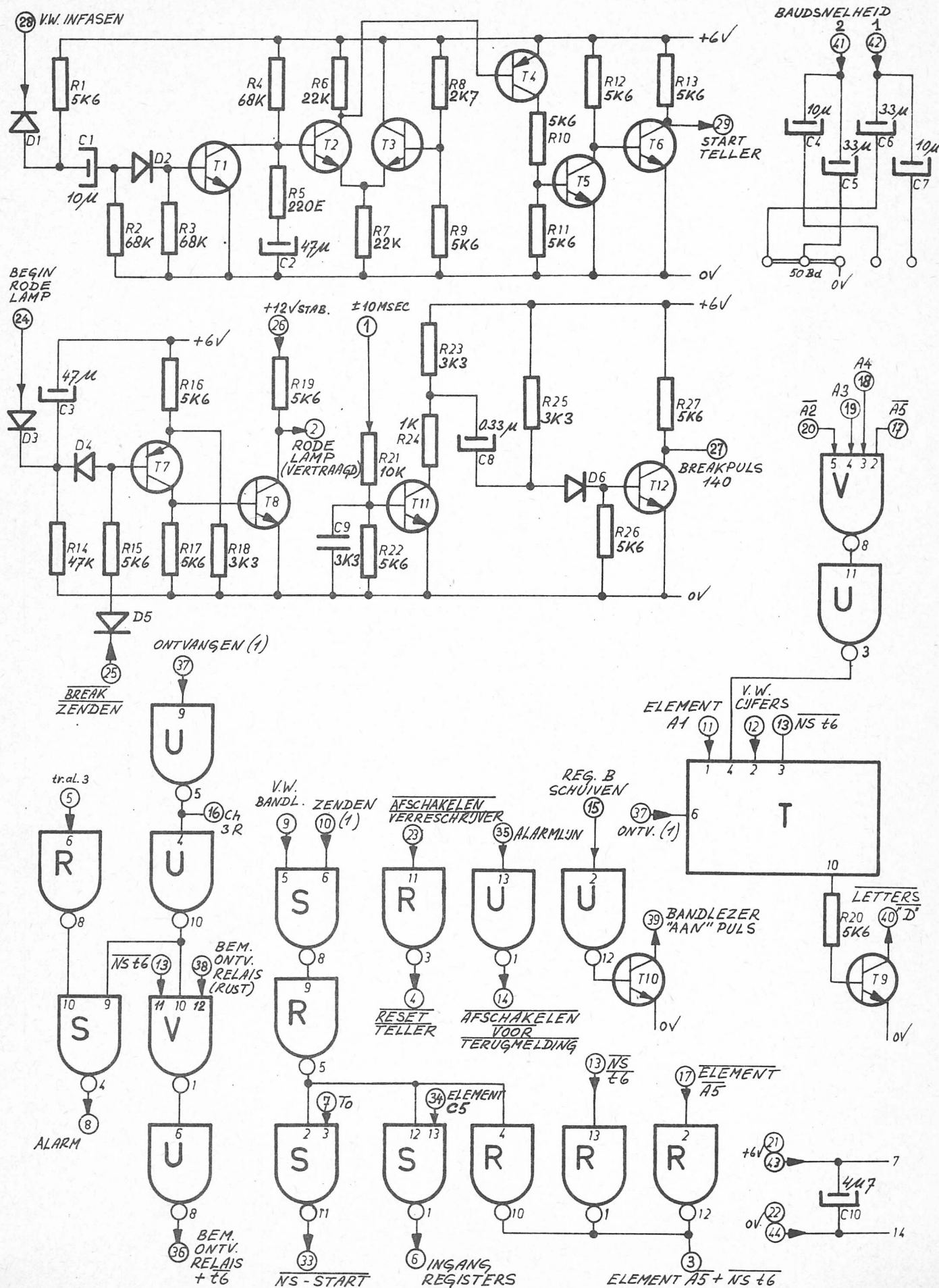


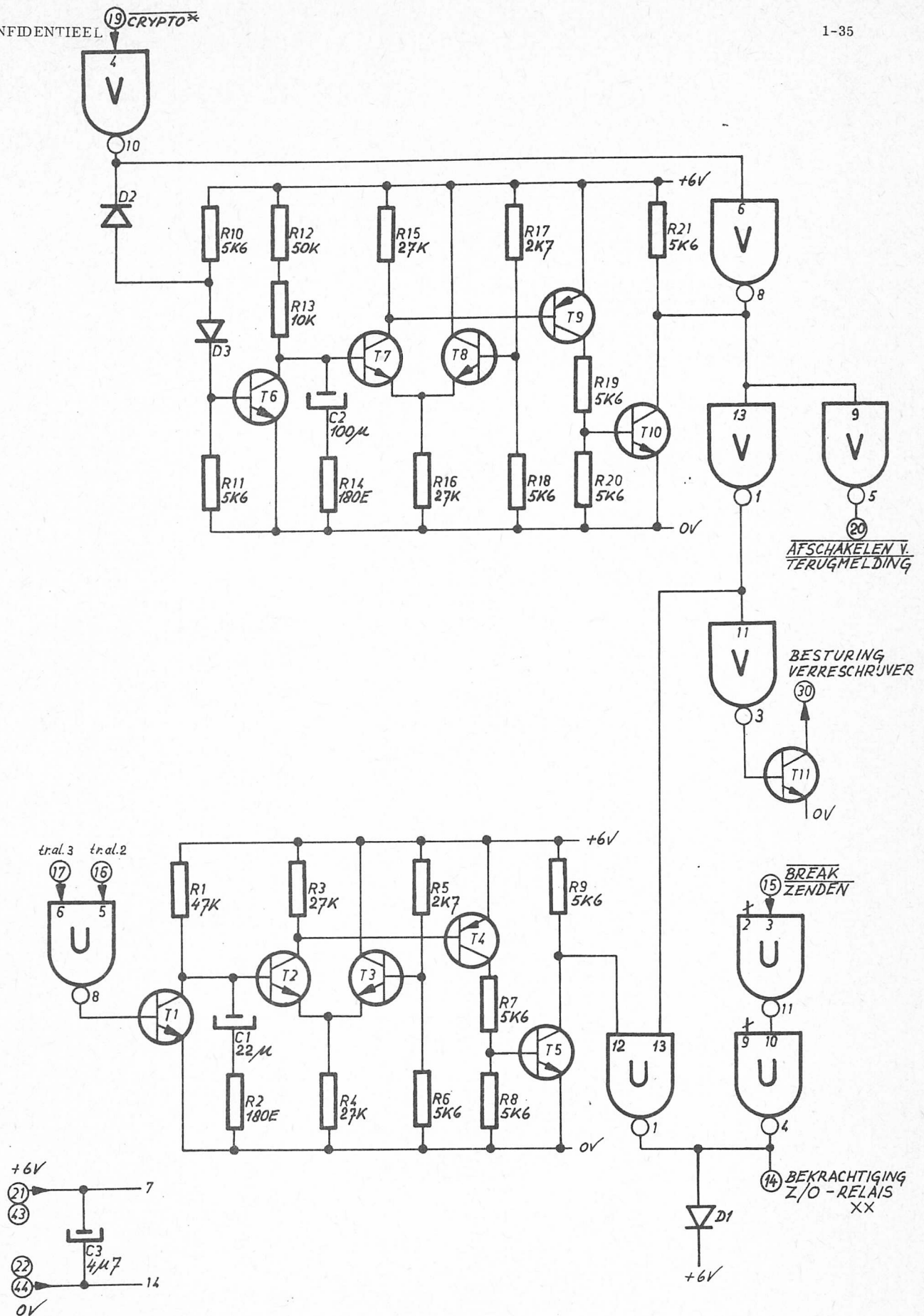
Schema 56/N

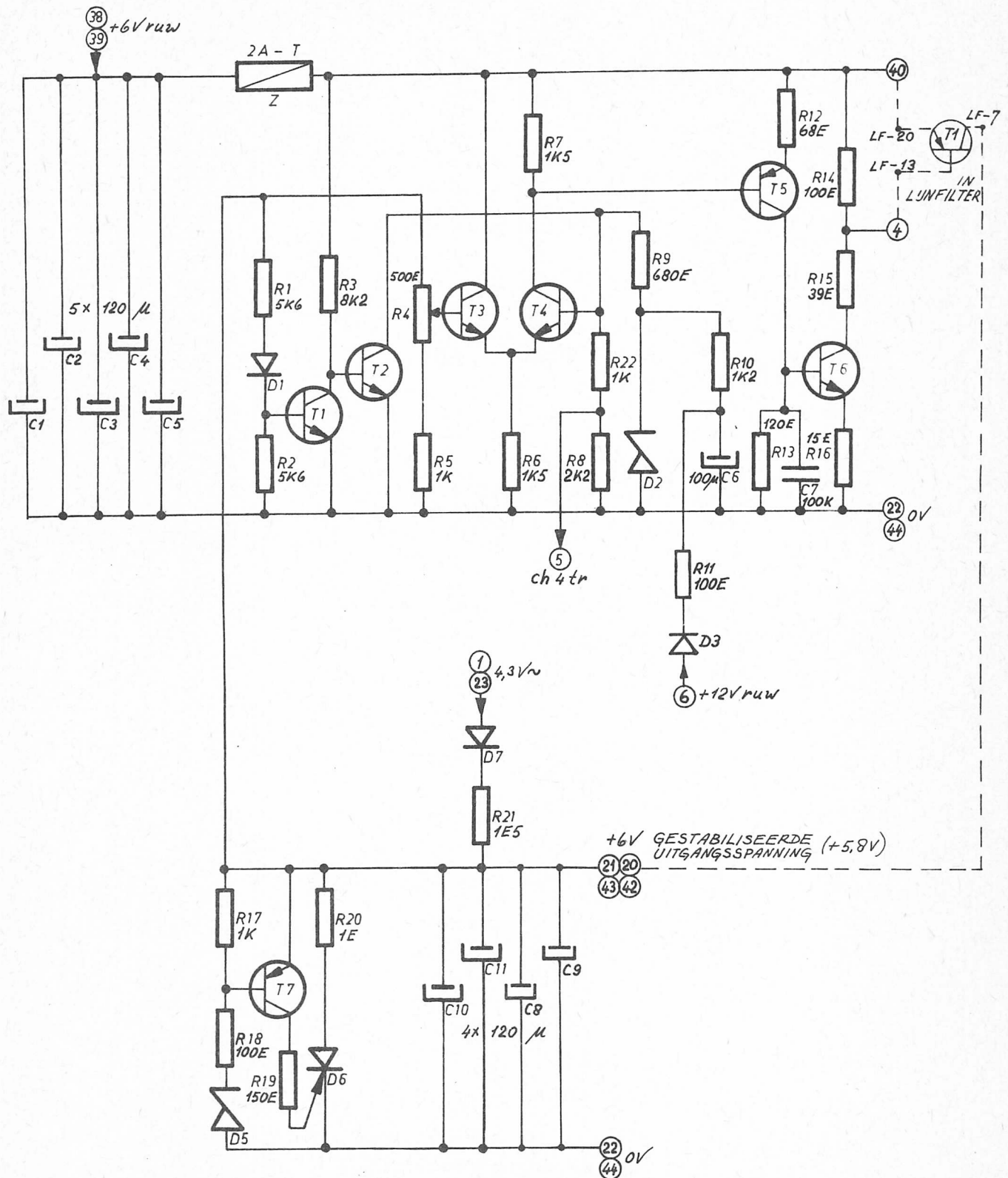
Kaart N

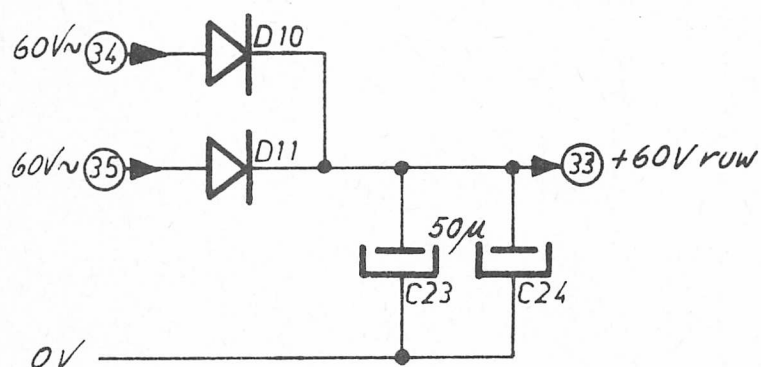
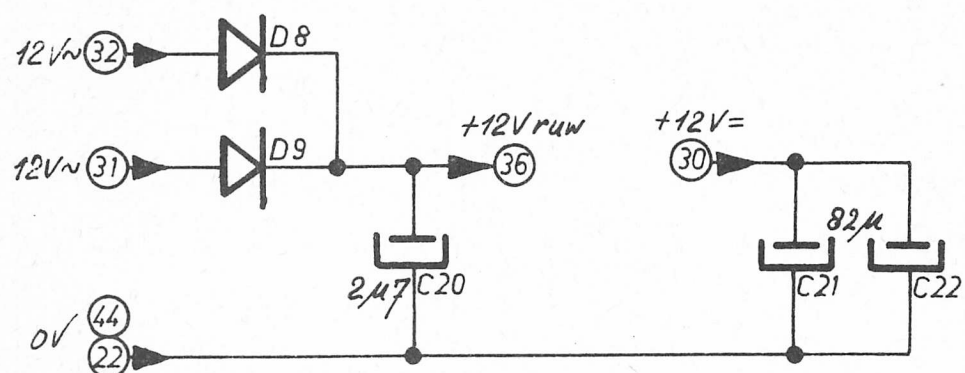




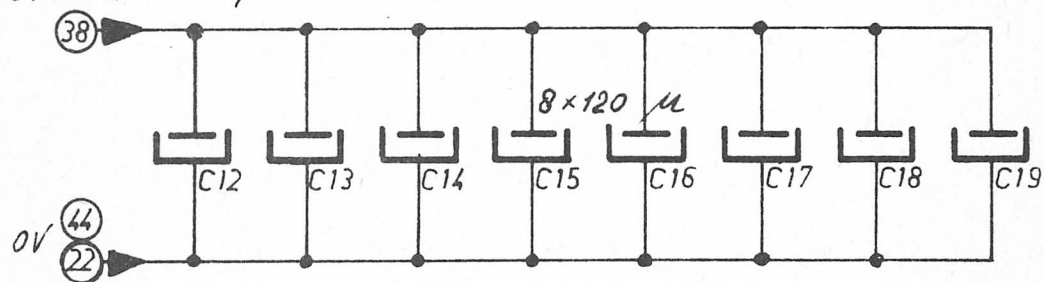




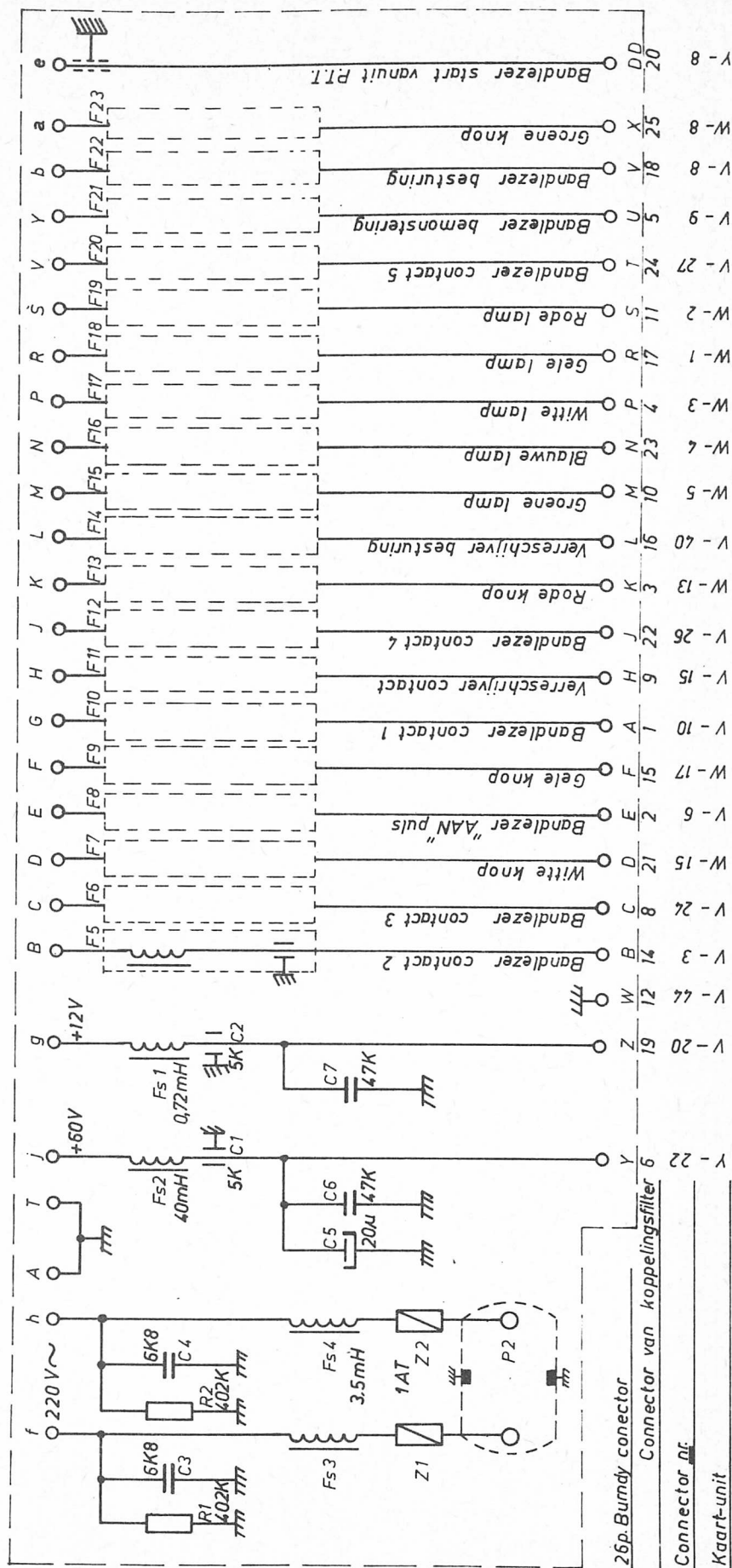


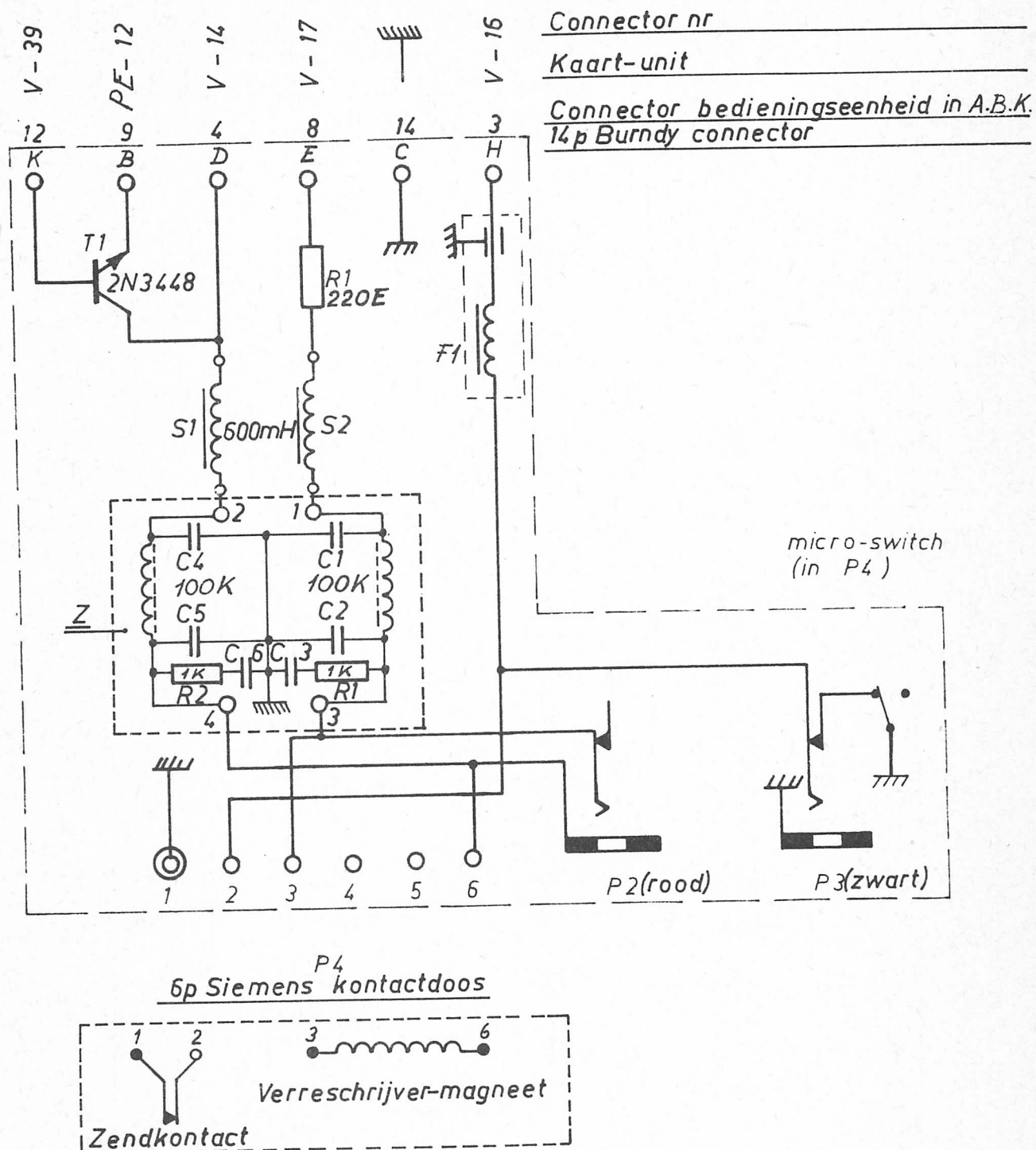


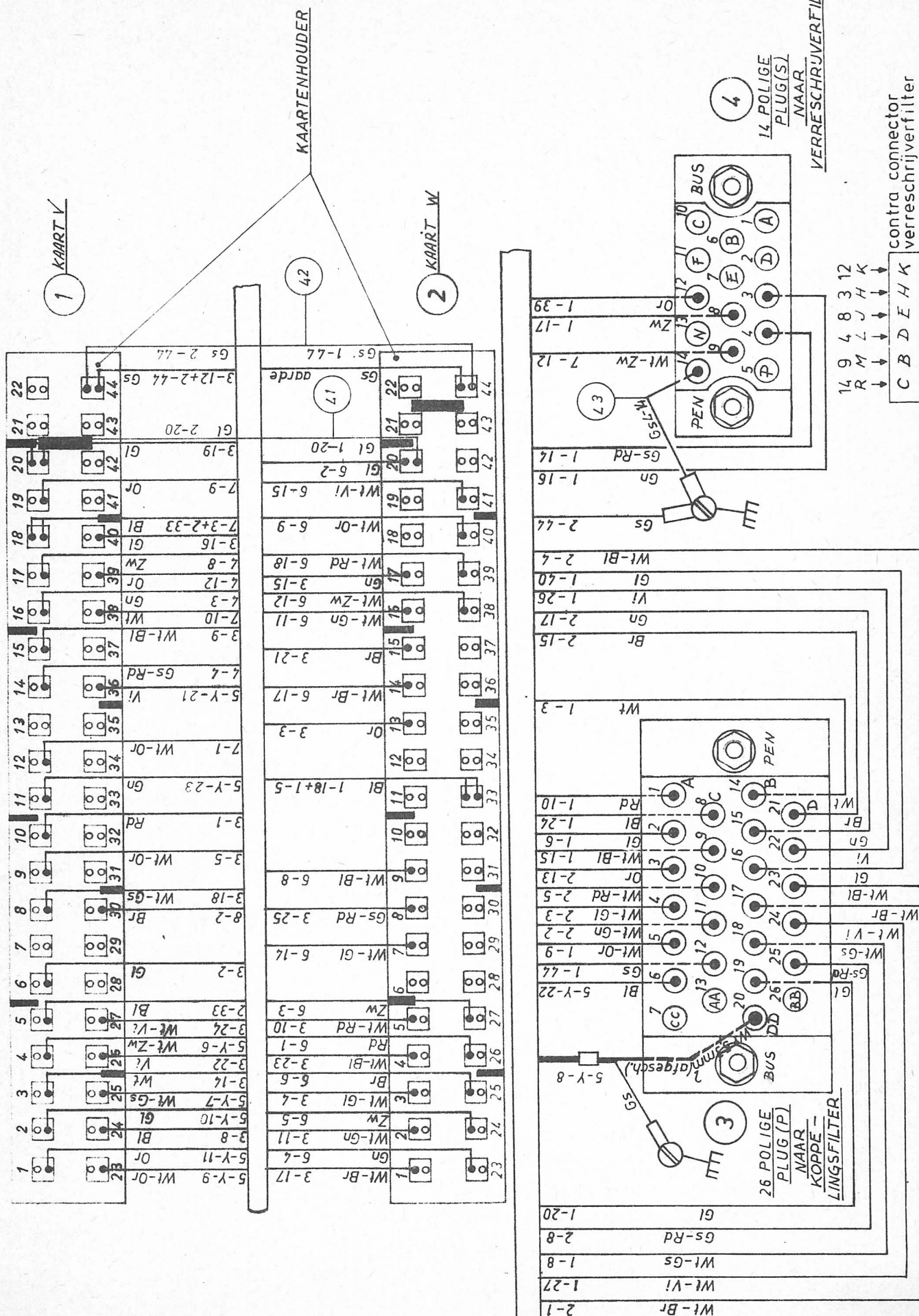
6V AFVLAKKING



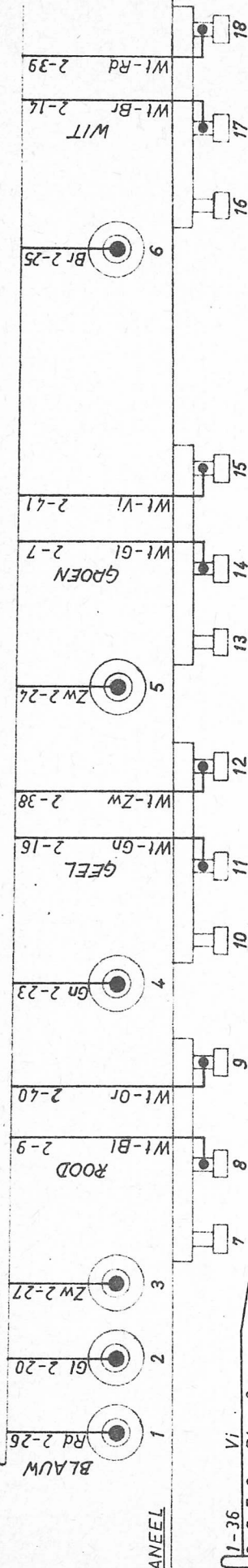
32 p. Socapex-plug naar netfilter in V.O.T.







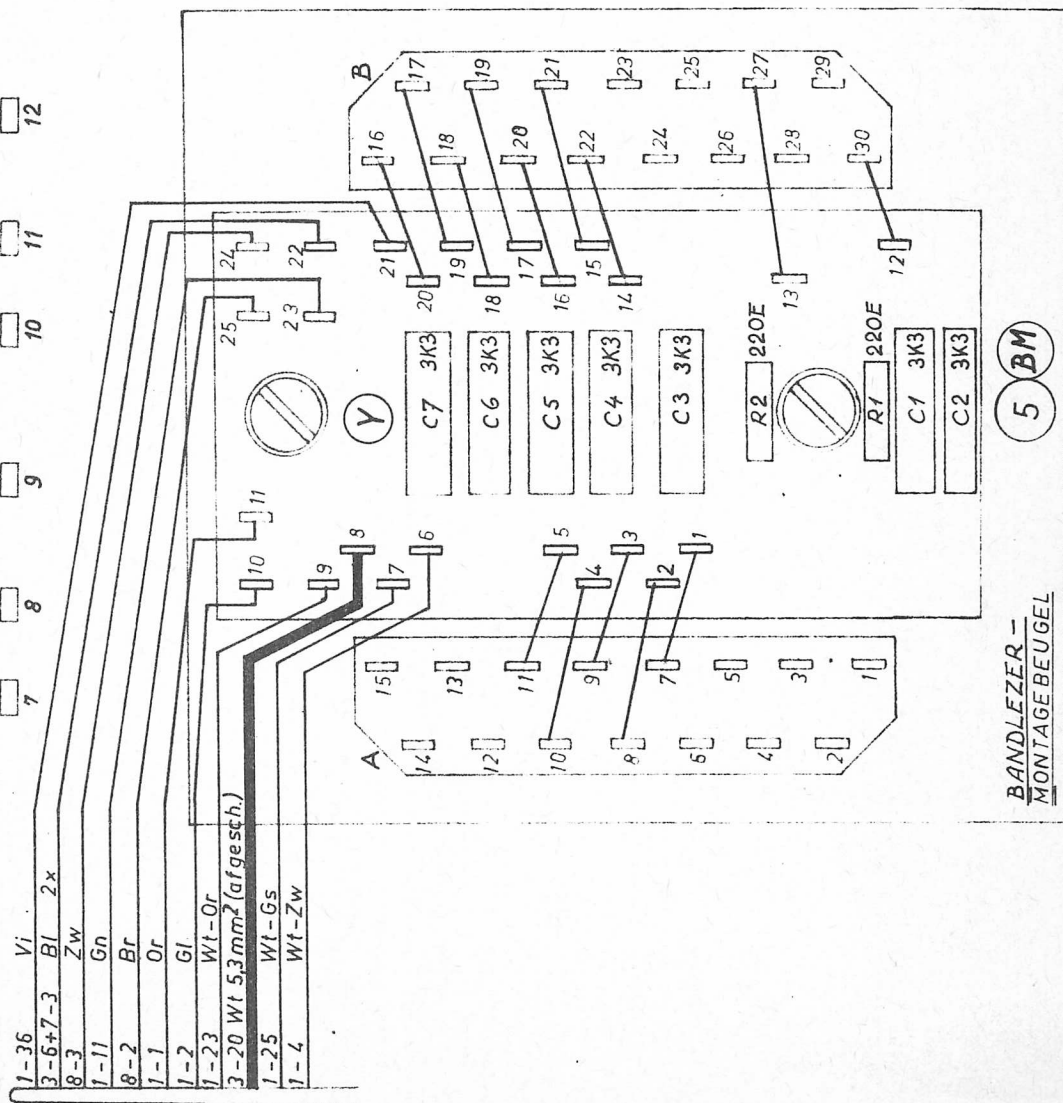
CONFIDENTIEEL



6 SP

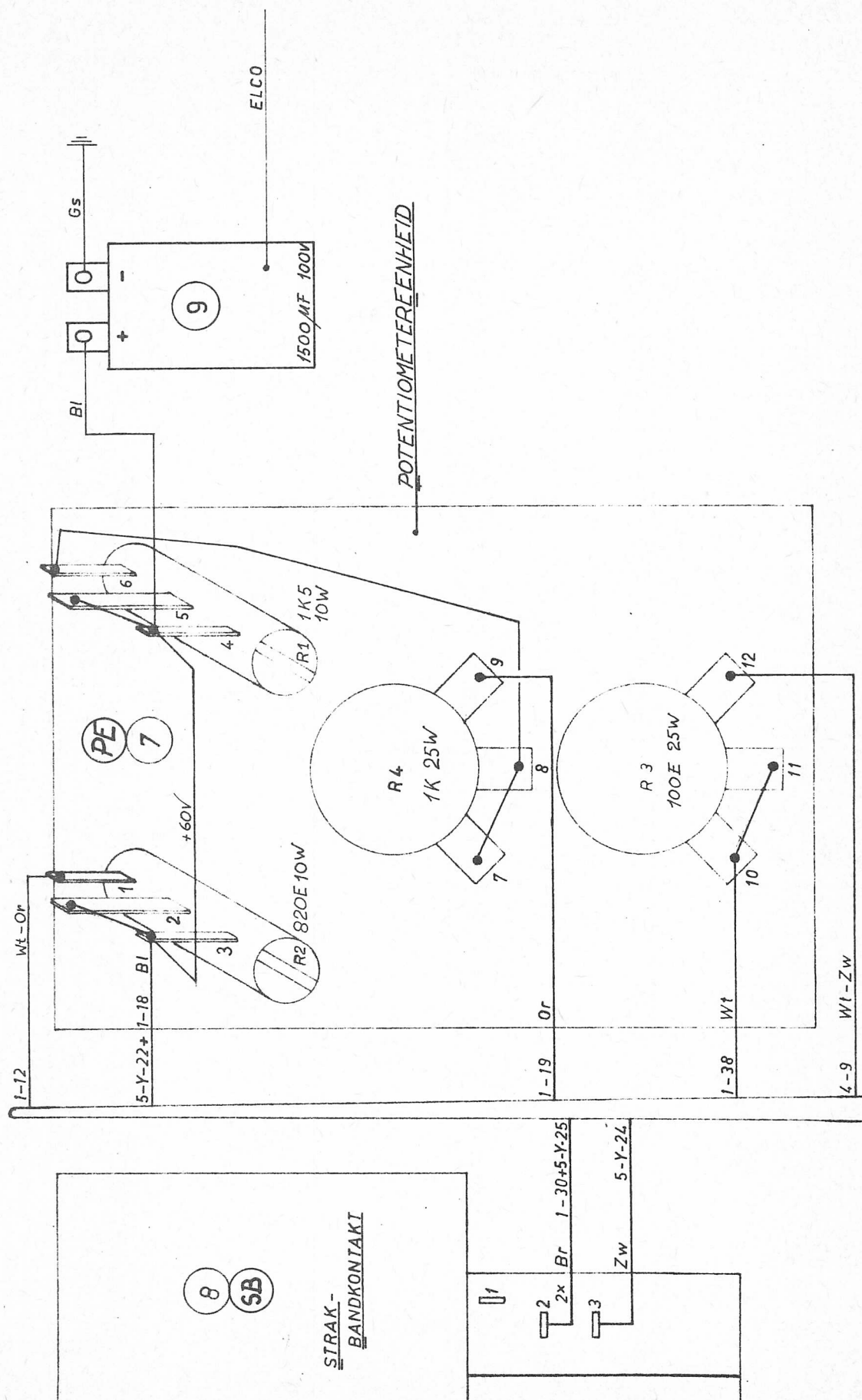
SCHAKELPANEEL

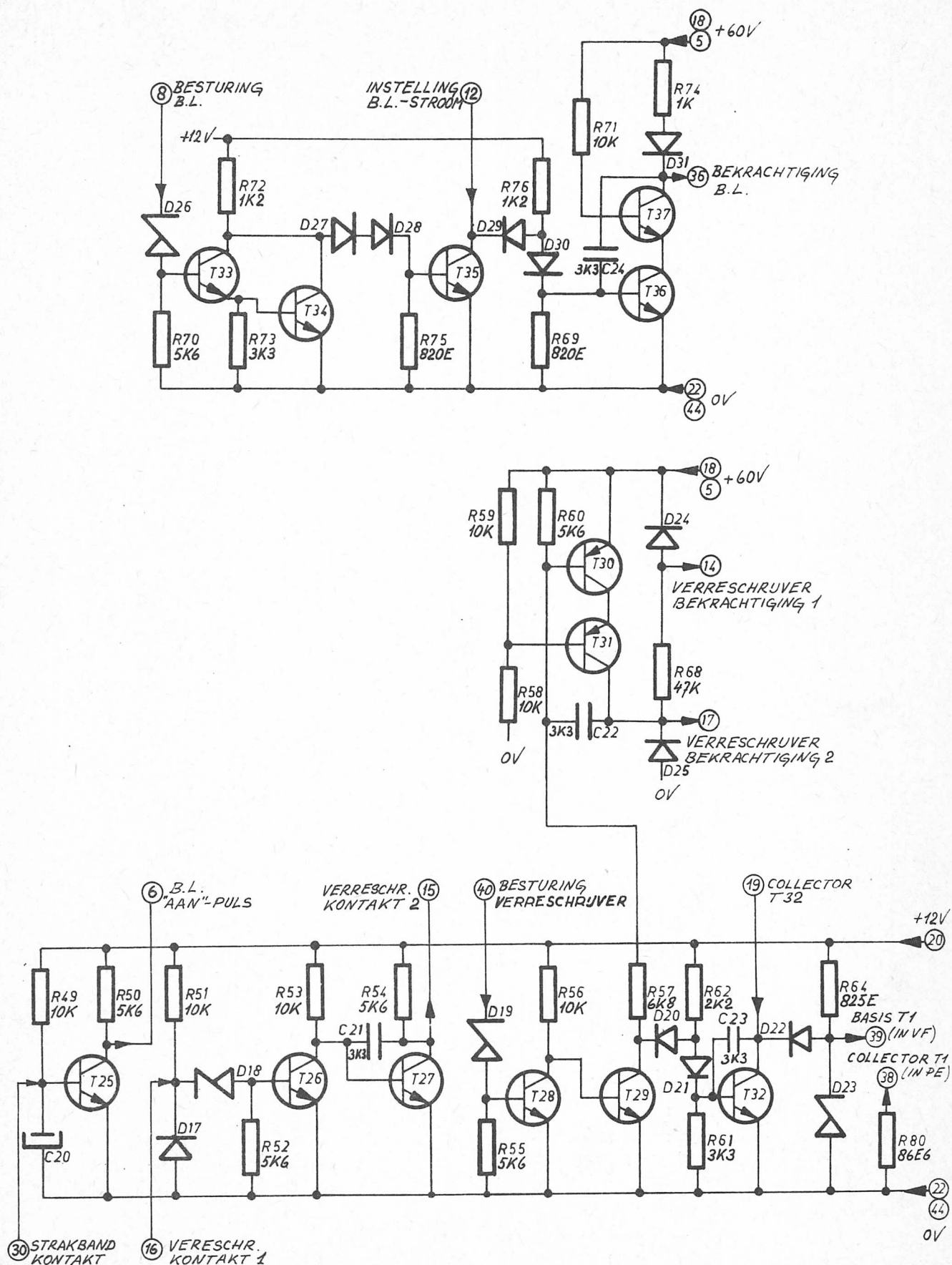
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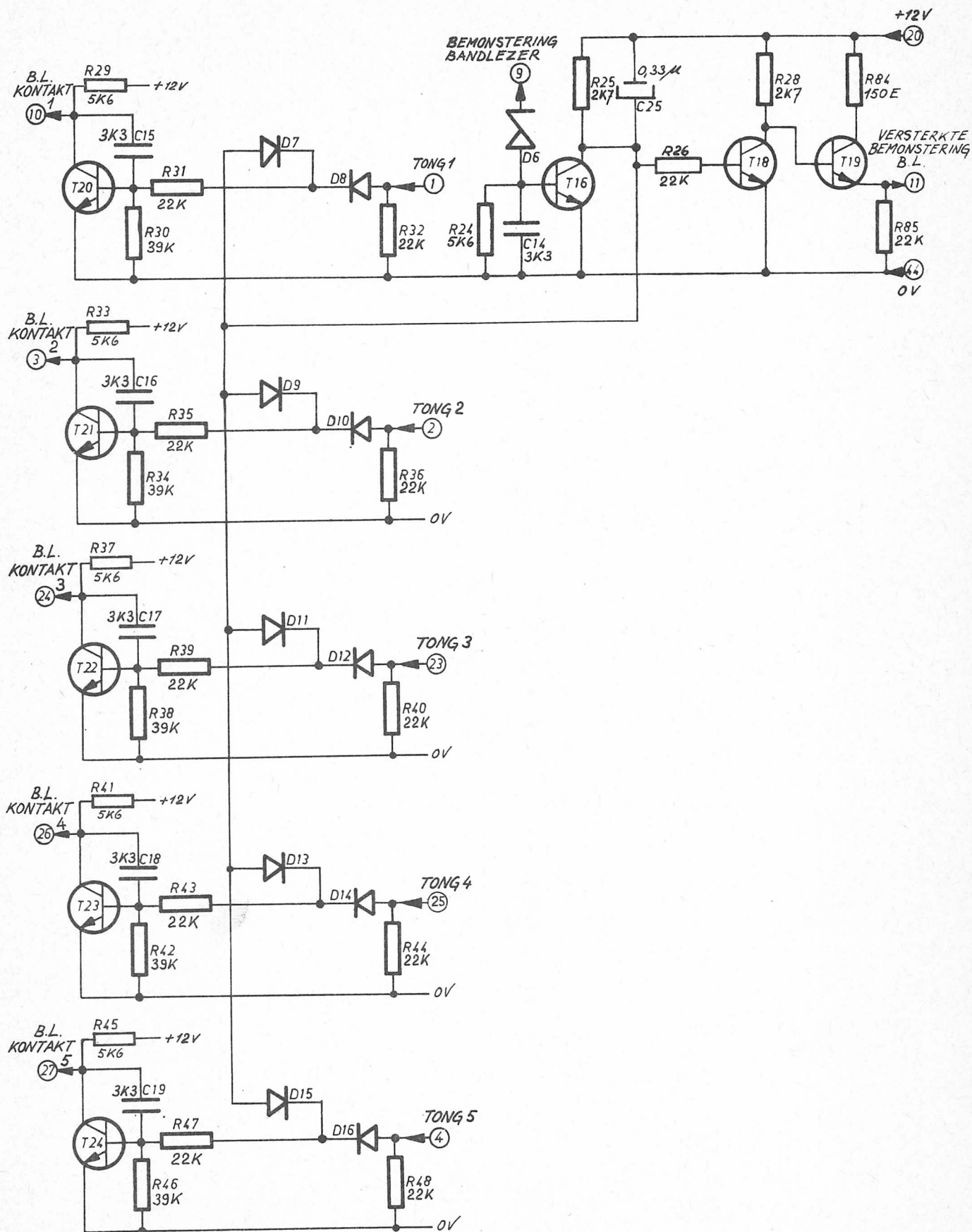


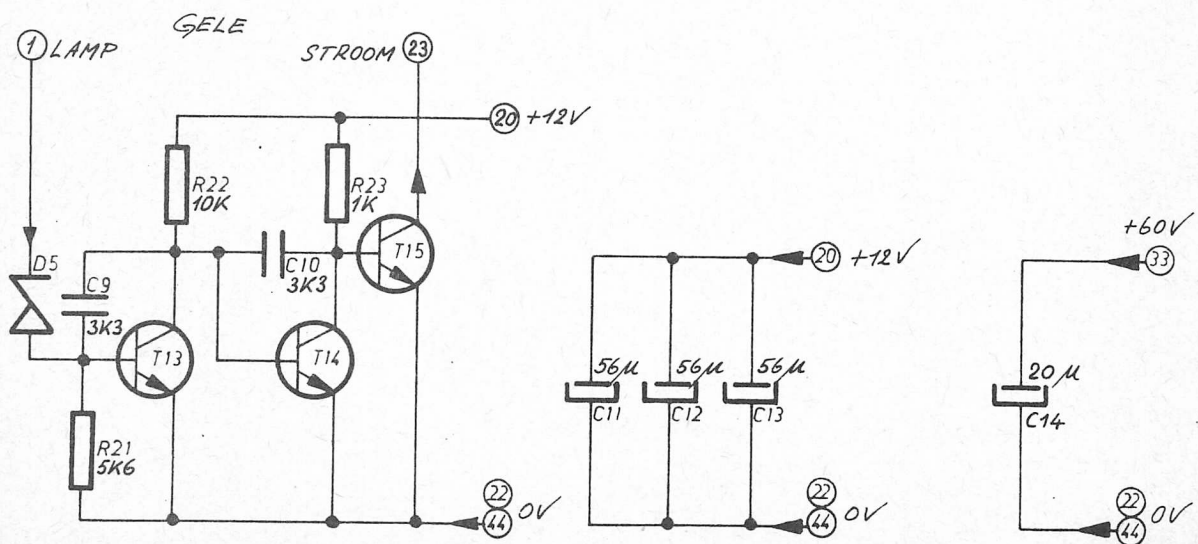
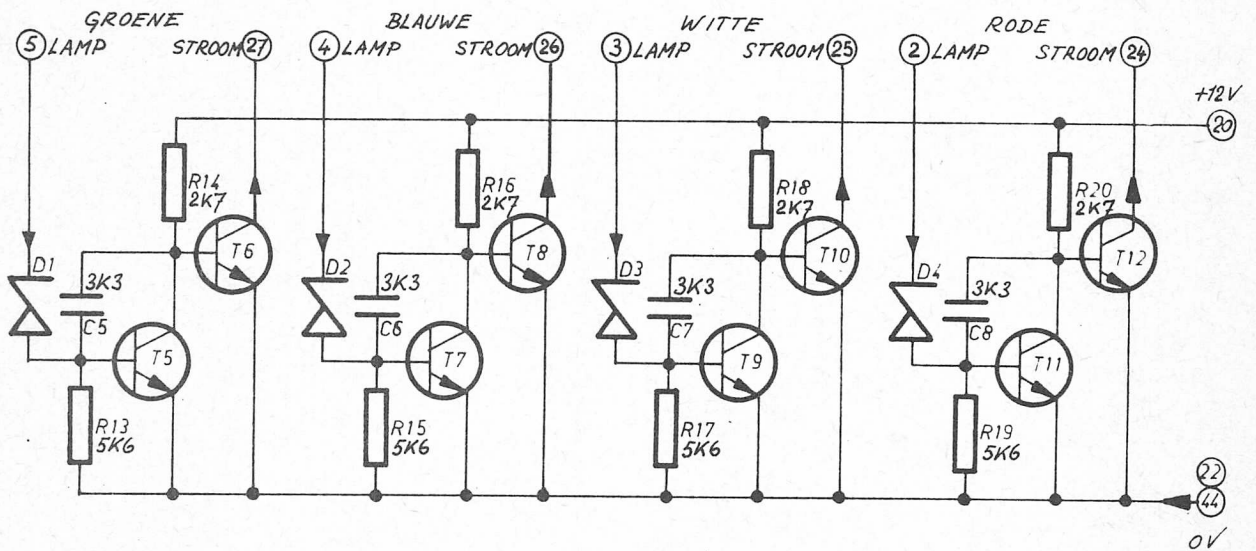
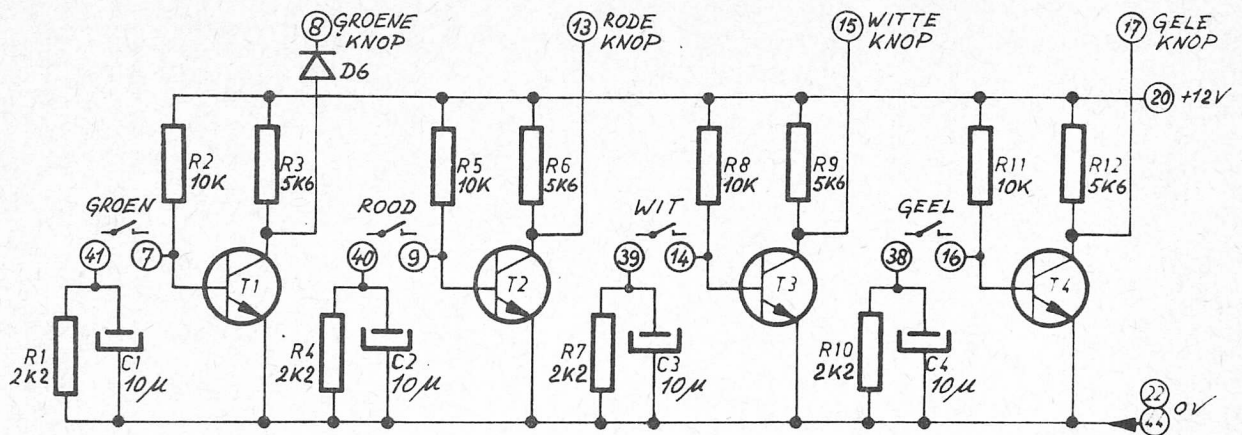
BANDLEZER -
MONTAGEBEUGEL

5 BM









1	2	3	4	5	6	7	8
E 03 E(n-1)3	B-27	→	23	1	←	A2-1	t 1-4(2)
	/		24	2	→	A2-4	D 1 Dn
Vaste stappuls (t 1,3)	B-35 A2-25	→	25	3	←	A2-3	t 1,3
Voorwaarde x	A2-26	→	26	4	←	B-42	D 0 D(n-1)
SV 1 SV n	/	/	27	5	→	A2-27	SV2 SV (n + 1)
W 1 W 1..9	B-24	←	28	6	←	A2-6	t 2,4
W 1 W 1..9	MR-1	←	29	7		/	W 1 W 1..9
W 13 Wn3	C-40	←	30	8		/	W 1 W 1..9
W 2	A2-29	→	31	9		/	
Voorwaarde x	A2-32	→	32	10		/	
Conditionele stappuls (t 2,4)	A2-33 B-40	→	33	11		/	
M 14 Mn4	28-3	←	34	12	←	28-1	S 11 Sn1
E 13 En3	A2-23	←	35	13		/	
M 12 Mn2	28-7	←	36	14		/	
M 11 Mn1	28-2	←	37	15		/	
M 13 Mn3	28-11	←	38	16	←	28-6	S 16 Sn6
Set Electronische schakelaars	A2-39	→	39	17		/	
Set Wielen (2)	A2-40	→	40	18		/	
Crypto V(1)	A2-41	→	41	19		/	
Uitleeslijn U1 Un	/		42	20	←	28-10	S 13 Sn3
	/		43	21	←	41-1	+6 V
	/		44	22	←	40-1	0 V

Kolom 1 en 8 omschrijving signaal

Kolom 2 en 7 verbinding met kaartkontaktpunt

Kolom 3 en 6 signaalrichting (in- of uitgaand)

Kolom 4 en 5 kontaktpunten van connector

E 13	A1-35	→	23	1	←	A1-1 A3-1	t 1-4(2)
	/		24	2	→	A3-4	D 2
Vaste stappuls	A1-25 A3-25	→	25	3	←	A1-3 A3-3	t 1,3
Voorwaarde x	A1-26 A3-26	→	26	4	←	A1-2	D 1
SV2	A1-5	←	27	5	→	A3-27	SV3
W 2	MR-18	←	28	6	←	A1-6 A3-6	t 2,4
W 2	A1-31	←	29	7		/	W 2
W 23	C-39	←	30	8		/	W 2
W 3	A3-29	→	31	9		/	
Voorwaarde x	A1-32 A3-32	→	32	10		/	
Cond.stappuls	A1-33 A3-33	→	33	11		/	
M 24	28-14	←	34	12	←	28-8	S 21
E 23	A3-23	←	35	13		/	
M 22	28-13	←	36	14		/	
M 21	28-9	←	37	15		/	
M 23	28-5	←	38	16	←	28-12	S 26
Set Electronische schakelaars	A1-39 A3-39	→	39	17		/	
Set Wielen (2)	A1-40 A3-40	→	40	18		/	
Crypto V (1)	A1-41 A3-41	→	41	19		/	
Uitleeslijn U 2			42	20	←	28-4	S 23
			43	21			+6 V
			44	22			0 V

E 23	A2-35	→	23	1	←	A2-1 B-33	t 1-4(2)
	/		24	2	→	A4-4	D 3
Vaste stappuls	A2-25 A4-25	→	25	3	←	A2-3 A4-3	t 1,3
Voorwaarde x	A2-26 A4-26	→	26	4	←	A2-2	D 2
SV3	A2-5	→	27	5	→	A4-27	SV4
W 3	MR-10	←	28	6	←	A2-6 A4-6	t 2,4
W 3	A2-31	←	29	7		/	W 3
W 33	C-38	←	30	8		/	W 3
W 4	A4-29	→	31	9		/	
Voorwaarde x	A2-32 A4-32	→	32	10		/	
Cond.stappuls	A2-33 A4-33	→	33	11		/	
M 34	29-3	←	34	12	←	29-1	S 31
E 33	A4-23	←	35	13		/	
M 32	29-7	←	36	14		/	
M 31	29-2	←	37	15		/	
M 33	29-11	←	38	16	←	29-6	S 36
Set Electronische schakelaars	A2-39 A4-39	→	39	17		/	
Set Wielen (2)	A2-40 A4-40	→	40	18		/	
Crypto V (1)	2-41 4-41	→	41	19		/	
Uitleeslijn U 3			42	20	←	29-10	S 33
			43	21	←	41-2	+6 V
			44	22	←	40-3	0 V

E 33	A3-35	→	23	1	←	A5-1	t 1-4 (1)
	/		24	2	→	A5-4	D 4
Vaste stappuls	A3-25 A5-25	→	25	3	←	A3-3 A5-3	t 1,3
Voorwaarde x	A3-26 A5-26	→	26	4	←	A3-2	D 3
SV4	A3-5	→	27	5	→	A5-27	SV5
W 4	MR-27	←	28	6	←	A3-6 A5-6	t 2,4
W 4	A3-31	←	29	7		/	W 4
W 43	C-37	←	30	8		/	W 4
W 5	A5-29	→	31	9		/	
Voorwaarde x	A3-32 A5-32	→	32	10		/	
Cond.stappuls	A3-33 A5-53	→	33	11		/	
M 44	29-14	←	34	12	←	29-8	S 41
E 43	A5-23	←	35	13		/	
M 42	29-13	←	36	14		/	
M 41	29-9	←	37	15		/	
M 43	29-5	←	38	16	←	29-12	S 46
Set Electronische schakelaars	A3-39 A5-39	→	39	17		/	
Set Wielen (2)	A3-40 B-25	→	40	18		/	
Crypto V(1)	A3-41 B-10	→	41	19		/	
Uitleeslijn U 4			42	20	←	29-4	S 43
			43	21			+ 6 V
			44	22			0 V

E 43	A4-35	→	23	1	←	A4-1 A6-1	t 1-4 (1)
	/		24	2	→	A6-4	D 5
Vaste stappuls	A4-25 A6-25	→	25	3	←	A4-3 A6-3	t 1,3
Voorwaarde x	A4-26 A6-26	→	26	4	←	A4-2	D 4
SV5	A4-5	→	27	5	→	A6-27	SV6
W 5	MR-2	←	28	6	←	A4-6 A6-6	t 2,4
W 5	A4-31	←	29	7		/	W 5
W 53	C-34	←	30	8		/	W 5
W 6	A6-29	→	31	9		/	
Voorwaarde x	A4-32 A6-32	→	32	10		/	
Cond.stappuls	A4-33 A6-33	→	33	11		/	
M 54	30-3	←	34	12	←	30-1	S 51
E 53	A6-23	←	35	13		/	
M 52	30-7	←	36	14		/	
M 51	30-2	←	37	15		/	
M 53	30-11	←	38	16	←	30-6	S 56
Set Electronische schakelaars	A4-39 A6-39	→	39	17		/	
Set Wielen (1)	A6-40	→	40	18		/	
Crypto V(2)	A6-41	→	41	19		/	
Uitleeslijn U 5			42	20	←	30-10	S 53
			43	21	←	41-4	+6 V
			44	22	←	40-5	0 V

E 53	A5-35	→	23	1	←	A5-1 A7-1	t 1-4 (1)
	/		24	2	→	A7-4	D 6
Vaste stappuls	A5-25 A7-25	→	25	3	←	A5-3 A7-3	t 1,3
Voorwaarde x	A5-26 A7-26	→	26	4	←	A5-2	D 5
SV6	A5-5	→	27	5	→	A7-27	SV7
W 6	MR-19	←	28	6	←	A5-6 A6-6	t 2,4
W 6	A5-31	←	29	7		/	W 6
W 63	C-26	←	30	8		/	W 6
W 7	A7-29	→	31	9		/	
Voorwaarde x	A5-32 A7-32	→	32	10		/	
Cond.stappuls	A5-33 A7-33	→	33	11		/	
M 64	30-14	←	34	12	←	30-8	S 61
E 63	A7-23	←	35	13		/	
M 62	30-13	←	36	14		/	
M 61	30-9	←	37	15		/	
M 63	30-5	←	38	16	←	30-12	S 66
Set Electronische schakelaars	A5-39 A7-39	→	39	17		/	
Set Wielen (1)	A5-40 A7-40	→	40	18		/	
Crypto V (2)	A5-41 A7-41	→	41	19		/	
Uitleeslijn U 6			42	20	←	30-4	S 63
			43	21			
			44	22			

E 63	A6-35	→	23	1	←	A6-1 A8-1	t 1-4(3)
	/		24	2	→	A8-4	D 7
Vaste stappuls	A6-25 A8-25	→	25	3	←	A6-3 A8-3	t 1,3
Voorwaarde x	A6-26 A8-26	→	26	4	←	A6-2	D 6
SV7	A6-5	→	27	5	→	A8-27	SV8
W 7	MR-11	←	28	6	←	A6-6 A8-6	t 2,4
W 7	A6-31	←	29	7		/	W 7
W 73	C-25	←	30	8		/	W 7
W 8	A8-29	→	31	9		/	
Voorwaarde x	A6-32 A8-32	→	32	10		/	
Cond.stappuls	A6-33 A8-33	→	33	11		/	
M 74	33-3	←	34	12	←	33-1	S 71
E 73	A8-23	←	35	13		/	
M 72	33-7	←	36	14		/	
M 71	33-2	←	37	15		/	
M 73	33-11	←	38	16	←	33-6	S 76
Set Electronische schakelaars	A6-39 A8-39	→	39	17		/	
Set Wielen (1)	A6-40 A8-40	→	40	18		/	
Crypto V(2)	A6-41 A8-41	→	41	19		/	
Uitleeslijn U 7			42	20	←	33-10	S 73
			43	21	←	41-6	+6 V
			44	22	←	40-7	0 V

E 73	A7-35	→	23	1	←	A7-1 A9-1	t 1-4(1)
	/		24	2	→	A9-4	D 8
Vaste stappuls	A7-25 A9-25	→	25	3	←	A7-3 A9-3	t 1,3
Voorwaarde x	A7-26 A9-26	→	26	4	←	A7-2	D 7
SV8	A7-5	→	27	5	→	A9-27	SV9
W 8	MR-28	←	28	6	←	A7-6 A9-6	t 2,4
W 8	A7-31	←	29	7		/	W 8
W 83	C-23	←	30	8		/	W 8
W 9	A9-29	→	31	9		/	
Voorwaarde x	A7-32 A9-32	→	32	10		/	
Cond.stappuls	A7-33 A9-33	→	33	11		/	
M 84	33-14	←	34	12	←	33-8	S 81
E 83	A9-23	←	35	13		/	
M 82	33-13	←	36	14		/	
M 81	33-9	←	37	15		/	
M 83	33-5	←	38	16	←	33-12	S 86
Set Electronische schakelaars	A7-39 A9-39	→	39	17		/	
Set Wielen (1)	A7-40 A9-40	→	40	18		/	
Crypto V(2)	A7-41 B-28	→	41	19		/	
Uitleeslijn U 8			42	20	←	33-4	S 83
			43	21		/	+6 V
			44	22		/	0 V

E 83	A8-35	→	23	1	←	A8-1 B-15	t 1-4(1)
	/		24	2	→	B-32	D 9
Vaste stappuls	A8-25 B-13	→	25	3	←	A8-3 B-20	t 1,3
Voorwaarde x	A8-26 L-20	→	26	4	←	A8-2	D 8
SV9	A8-5	→	27	5	.	/	
W 9	MR-3	←	28	6	←	A8-6 B-41	t 2,4
W 9	A8-31	←	29	7		/	W 9
W 93	C-2	←	30	8		/	W 9
W 10	C-42	→	31	9		/	
Voorwaarde x	A8-32 B-5	→	32	10		/	
Cond.stappuls	A8-33 B-19	→	33	11		/	
M 94	34-3	←	34	12	←	34-1	S 91
	/		35	13		/	
M 92	34-7	←	36	14		/	
M 91	34-2	←	37	15		/	
M 93	34-11	←	38	16	←	34-6	S 96
Set Electronische schakelaars	A8-39 B-14	→	39	17		/	
Set Wielen (1)	A8-40 B-7	→	40	18		/	
Crypto	B-26	→	41	19		/	
Uitleeslijn U 9	/		42	20	←	34-10	S 93
	/		43	21	←	41-8	+6 V
			44	22	←	40-9	0 V

Uitgang mengschakeling	C-1	→	23	1	→	E-6	<u>SY 10 - V</u>
W 1	A1-28	→	24	2	←	C-28	<u>SY4-V</u>
Set Wielen (2)	A4-40	←	25	3	←	MR-12	Test stap
Crypto	A9-41 K-3	→	26	4	↔	G-9	SY 10
E 03	A1-23	←	27	5	←	A9-32 C-19	Voorwaarde x
Crypto V(2)	A8-41	←	28	6	←	H-24	SY 147
<u>Crypto</u>	C-36	→	29	7	→	A9-40	Set Wielen (1)
ch" 1,2,3 k	31-7	→	30	8	↔	L-5	<u>Voorwaarde</u> programma
ch' 1,2,3 k	31-2	→	31	9	↔	MR-20	Test reset
D 9	A9-2	→	32	10	→	A4-41	Crypto V(1)
t 1-4 (2)	A3-1	←	33	11	←	L-32	Voorwaarde cyclus
Crypto V (3)	C-29	←	34	12	←	H-4	<u>SY6</u>
Vaste stappuls'= ch 1 k	A1-25 31-1	→	35	13	→	A9-25	Vaste stappuls
Test extra cyclus	MR-29	→	36	14	→	A9-39	Set Electronische schakelaars
Test conditionele stappuls	MR-4	→	37	15	→	A9-1	t 1-4 (1)
Reset alarm	32-11 C- 10	→	38	16	↔	H-26	<u>SY4</u>
ch 3 k	31-10	→	39	17	↔	H-5	SY5
Cond.stappuls'= ch 2 k	A1-33 31-6	→	40	18	→	C-33	Alarm
t 2,4	A9-6	←	41	19	↔	A9-33	Conditionele stappuls
D 0	A1-4	←	42	20	↔	A9-3	t 1,3
			43	21			+ 6 V
			44	22			0 V

W 83	A8-30	→	23	1	→	B-23	Uitgang mengschakeling
Ontvangen signaal	N-15	→	24	2	←	A9-30	W 93
W 73	A7-30	→	25	3		/	
W 63	A6-30	→	26	4	→	N-4	Uitgang SY Regenerator
Ontvangen (2)	G-4	→	27	5	←	H-6	SY4
SY4 V	B-2	←	28	6	→	J-42	Ingang registers
Crypto V (3)	B-34	→	29	7	←	G-5	T 6
	/		30	8	→	N-26	Alarmlijn
tr.alarm 2= ch 2 tr.	N-7 31-3	→	31	9	→	E-9	R-alarm 1
ch 1 tr/ch 6 r	31-9	→	32	10	←	B-38 M-13	Reset alarm
Alarm	B-18 D-32	→	33	11	→	E-10	R-alarm 2
W 53	A5-30	→	34	12	←	K-2	Zenden (1)
ch" 1,2,3 k = ch" 1,2 tr	32-1	→	35	13	←	31-5	ch' 3-7 R
Crypto	B-29 H-10	→	36	14	←	31-13	ch 7 R
W 43	A4-30	→	37	15	←	G-2	T 0
W 33	A3-30	→	38	16	←	H-7	Klok 145
W 23	A2-30	→	39	17	←	E-7	Ingang 2 e R-sectie
W 13	A1-30	→	40	18	←	H-25	SY1
ingang, mengschakeling	/		41	19	←	B-5 L-19	Voorwaarde x
W 10	A9-31	←	42	20		/	
			43	21	←	41-10	+6 V
			44	22	←	40-10	0 V

+ 12 V stab.			23	1	←	E-23	+12 V stab.
			24	2			
			25	3			
			26	4			
			27	5			
			28	6			
			29	7			
			30	8			
			31	9			
Alarm	C-33 E-1	←	32	10			
			33	11			
			34	12			
			35	13			
			36	14			
			37	15			
			38	16			
			39	17			
			40	18			
			41	19	→	E-19	Ruis 1
ch 1 R	31-11	←	42	20	→	E-20	Ruis 2
			43	21			+ 6 V
			44	22			0 V

+12 V stab.	D-1 M-25	←	23	1	→	D-32 Q-11	Alarm
			24	2	→	R-42	Bandsnelheid 1
			25	3	→	R-41	Bandsnelheid 2
			26	4	←	T-6 TR-8	+12 V ruw
			27	5	→	31-4	ch 5 R
			28	6	←	B-1	SY 10-V
			29	7	→	C-17 ML-27	Ingangen 2e R-sectie
			30	8	←	31-12	ch 4 R
			31	9	←	C-9	R-alarm 1
			32	10	←	C-11	R-alarm 2
			33	11		/	
			34	12		/	
			35	13		/	
			36	14		/	
			37	15		/	
			38	16		/	
			39	17	←	31-14	ch 2 R
			40	18	←	31-8	ch 3 R
			41	19	←	D-19	Ruis 1
			42	20	←	D-20	Ruis 2
			43	21	←	41-12	+6 V
			44	22	←	40-12	0 V

		23	1			
		24	2			
		25	3			
		26	4			
		27	5			
		28	6			
		29	7			
		30	8			
		31	9			
		32	10			
		33	11	→	G-1	$\overline{\text{SY 10}}$
		34	12	→	H-12	SY 11
		35	13	→	G-9 ML-20	SY 10
		36	14			
		37	15			
		38	16			
		39	17			
		40	18			
		41	19			
		42	20			
		43	21			+ 6 V
		44	22			0 V

Off line reset	N-34	→	23	1	←	F-11	SY 10
	/		24	2	←	C-15 H-11	T 0
T 3	H-31	→	25	3			
Klokpuls 11	H-12	→	26	4	←	C-27 H-41	Ontvangen (2)
			27	5	←	C-7 H-34	T 6
			28	6	←	H-13	Bemonsterd ont- vangrelais (werk)
			29	7			
			30	8	→	H-3	SY7
			31	9	→	B-4 F-13	SY 10
NS-besturing	M-36	←	32	10			
			33	11			
			34	12			
NS-besturing	H-20	←	35	13			
Register schuiven	J-35	←	36	14			
NS t 6	J-41	←	37	15			
Reset +1	L-12	→	38	16			
NS start	N-17	→	39	17			
Register inlezen	J-16	←	40	18			
			41	19	→	N-42	NS 4
			42	20			
			43	21	←	41-14	+6 V
			44	22	←	40-13	0 V

SY 147	L-35	←	23	1	→	L-31 MR-13	SY6
SY 147	B-6 K-26	←	24	2			
SY1	C-18 P-37	←	25	3	←	G-8	SY7
SY4	B-16	←	26	4	→	B-12	SY6
			27	5	→	B-17	SY5
			28	6	→	C-5 J-6	SY4
T 0	J-5	←	29	7	→	C-16 K-35	SY 145
T 6			30	8	→	K-37 MR-21	SY 145
T 3	G-25	←	31	9			SY 145
Fase lock	P-17	←	32	10	←	C-36 M-17	Crypto
± 10 msec.	R-1	←	33	11	→	N-39 G-2	T 0
T 6	G-5 K-36	←	34	12	←	F-12 G-26	SY11
			35	13	→	G-6	Bemonsterd ont- vangrelais (werk)
			36	14	←	Q-16	Fase verlenging uit
Break zenden	M-14	→	37	15	←	M-31 32-9	Off line
Break ontvangen	P-14	→	38	16	←	M-6 32-8	Ontvangrelais rust
Fase verlenging in	Q-19	←	39	17	←	L-30	Voorwaarde fase
Reset teller	M-7	←	40	18	→	R-38	Bemonsterd ont- vangrelais (rust)
Ontvangen (2)	G-4 L-17	→	41	19	←	M-28	Ontvangrelais werk
			42	20	←	G-35	NS besturing
			43	21			
			44	22			

Element A 1	R-11	←	23	1	←	K-41	Register C schuiven
Element A 4	R-18	←	24	2	←	K-15	Register C uitlezen
Element A 2	R-20	←	25	3	←	N-11	Voorwaarde "Bandlezer"
Element A 3	R-19	←	26	4	→	K-1 ML-12	Register uitlezen
			27	5	←	H-29 N-13	T 0
			28	6	←	G-6	SY4
			29	7	→	K-19	Register BC uitlezen
			30	8	←	Q-24	Bandlezer- element 4
			31	9	←	Q-23	Bandlezer- element 5
Bandlezer- element 2	Q-26	→	32	10	←	Q-27	Bandlezer- element 1
Set element C 3	K-6	→	33	11	←	K-26	SY 147
Bandlezer- element 3	Q-25	→	34	12			
NS Register schuiven	G-36 K-39	→	35	13			
			36	14			
Element C 5	N-18	←	37	15			
			38	16	←	G-40 ML-13	NS Register inlezen
			39	17	→	L-18	<u>Afschakelen</u> verreschrijver
Voorwaarde cijfers	K-4	←	40	18	←	K-30	<u>Register B</u> schuiven
NS t 6	G-37 K-16	→	41	19	→	ML-28	Element A 5
Ingang registers	C-6 N-36	→	42	20	→	K-20	<u>Element A 5</u>
			43	21	←	41-16	+6 V
			44	22	←	40-16	0 V

			23	1	←	J-4	SY Register uitlezen
			24	2	←	C-12 M-11	Zenden (1)
Einde programma	L-41	←	25	3	←	B-26 L-15	Crypto
Klokpuls 147	H-24 J-11	→	26	4	←	J-40 R-12	Voorwaarde cijfers
			27	5	←	N-20	Voorwaarde "bandlezer"
Register B schuiven	N-10	←	28	6	→	J-33	Set element C 3
Programma zoeken	M-18	→	29	7			
Register B schuiven	J-18	←	30	8			
Voorwaarde programma	L-5 M-34	→	31	9			
			32	10			
			33	11			
			34	12			
SY 145	H-7	→	35	13			
T 6	H-34 N-8	→	36	14			
SY 145	H-8 N-28	→	37	15	→	J-2	Register C uitlezen
A5 + NSt 6	R-3	→	38	16	←	J-41 R-13	NS t 6
NS Register schuiven	J-35	→	39	17			
Programma herkend	L-3	←	40	18	→	ML-8	Element B 5
Register C schuiven	J-1	←	41	19	↔	J-7 N-14	Register BC Uitlezen
Voorinstellen sleutelgenerator	L-29 M-20	→	42	20	←	J-20 R-17	Element A 5
			43	21			+ 6 V
			44	22			0 V

<u>Teller 61</u>	M-12	←	23	1	→	N-40	<u>Afschakelen voor terugmelding</u>
			24	2	←	M-30	Voorwaarde infasen
			25	3	←	K-40	Programma herkend
			26	4			
			27	5	→	B-8 K-31	<u>Voorwaarde programma</u>
			28	6			
<u>Voorinstellen sleutelgenerator</u>	K-42 M-29	←	29	7			
Voorwaarde fase	H-17	←	30	8			
SY 6	H-1	→	31	9			
Voorwaarde cyclus	B-11 ML-31	←	32	10			
			33	11	←	M-27	Start teller
			34	12	←	G-38 M-33	Reset + 1
<u>SY 147</u>	H-23	←	35	13	→	S-19	<u>Crypto*</u>
<u>Start crypto</u>	M-16	←	36	14	→	P-7	<u>Break terugmelding</u>
<u>V.W. cyclus</u>			37	15	←	K-3 M-15	Crypto
			38	16			voorinstellen sleutelgenerator
			39	17	←	H-41 M-10	Ontvangen 2
			40	18	←	J-17 N-29	<u>Afschakelen verreschrijver</u>
<u>Einde programma</u>	K-25	→	41	19	→	C-19 ML-14	Voorwaarde x
			42	20	→	A9-26	<u>Voorwaarde x</u>
			43	21	←	41-18	+6 V
			44	22	←	40-19	0 V

Blauwe lamp	NF-23	←	23	1	←	NF-25	GROENE knop
0 V	M-44	→	24	2	→	NF-10	GROENE lamp
+12 V stab.	E-23 N-27	→	25	3	←	NF-3	Rode knop
Break terugmelding	P-7	→	26	4	→	NF-4	WITTE lamp
Start teller	L-11 R-29	←	27	5	←	N-16	Break
Ontvangrelais werk	H-19 Q-8	→	28	6	←	H-16 Q-9	Ontvangrelais rust
Voorinstelling sleutelgenerator	L-29	→	29	7	←	H-40 R-4	Reset teller
Voorwaarde infasen	L-2 R-28	←	30	8	→	N-30	Ontvangen (1)
Off line	H-15 N-31	→	31	9			Zenden (2)
Start crypto zenden	P-10	←	32	10	→	L-17	Ontvangen (2)
Reset +1	L-12 P-12	→	33	11	→	K-2 N-35	Zenden 1
Voorwaarde programma	K-31 ML-22	→	34	12	←	L-23	Teller 61
WITTE knop + 3,5 sec	Q-18	→	35	13	←	C-10 P-11	Reset Alarm
NS-besturing	G-32 ML-16	→	36	14	→	H-37 N-9	Break zenden
3,5 sec	N-41	←	37	15	→	L-15 N-37	Crypto
			38	16	←	L-36	Start crypto
			39	17	→	H-10 P-18	Crypto
			40	18	→	K-29	Programma zoeken
			41	19	←	P-15	Break
V.W. infasen			42	20	←	K-42 ML-6	Voorinstellen sleutelgenerator
			43	21			+ 6 V
0 V	M-24	←	44	22			0 V

Besturing verreschrijver	N-36 NF-16	←	23	1	→	LF-4	Zendrelais werk
GELE lamp	NF-17	←	24	2	→	LF-3	Zendrelais rust
Verreschrijver contact 2	NF-9	→	25	3	←	R-39	Bandlezer "AAN" puls
Alarmlijn	C-8 Q-28	→	26	4	←	C-4	Uitgang SY Regenerator
+12V= stab.	M-25 R-26	→	27	5	→	R-5 32-6	tr.al.3(verzonden crypto tekst)
SY 145	K-37	→	28	6	←	P-6	Verzonden break signaal
Afschakelen verreschrijver	L-18 R-23	→	29	7	→	C-31 S-16	tr.al.2 (verzon- den klare tekst)
Ontvangen (1)	M-8 P-5	→	30	8	←	K-36 P-35	T 6
Off line	M-31 P-9	→	31	9	←	M-14 P-8	Break zenden
Crypto	P-18	→	32	10	←	K-28 R-15	Register B schuiven
Break	P-15	→	33	11	→	J-3 P-39	Voorwaarde "Bandlezer"
Off line reset	G-23	←	34	12	←	32-13	Kopie uit
Zenden (1)	M-11 R-10	→	35	13	←	J-5	T 0
Ingang registers	J-42 R-6	←	36	14	←	K-19 ML-18	Register BC uitlezen
Crypto	M-15 S-41	→	37	15	→	C-24	Ontvangen signaal
Bemonsterd ont- vangrelais +t 6	R-36	→	38	16	←	M-5 P-16	Break
T o	H-11 R-7	→	39	17	→	G-39 R-33	NS-start
Afschakelen voor terugmelding	L-1 R-14	→	40	18	←	J-37 R-34	Element C 5
3,5 sec	M-37 ML-1	→	41	19	←	32-4	Off line
NS 4	G-19	→	42	20	→	K-5	Voorwaarde Bandlezer
			43	21		41-20	+ 6 V
			44	22		40-20	0 V

			23	1			
			24	2			
			25	3			
			26	4			
			27	5	←	N-30 R-37	Ontvangen (1)
			28	6	→	N-6 ML-3	Verzonden break signaal
			29	7	←	L-14 M-26	Break terugmelding
			30	8	←	N-9 R-25	Break zenden
			31	9	←	N-31	Off line
Bandlezer besturing	NF-18	←	32	10	←	M-32	Start crypto zenden
Bandlezer bemonstering	NF-5	←	33	11	→	M-13	Reset Alarm
Begin RODE lamp	R-24	←	34	12	→	M-33 ML-30	Reset +1
T 6	N-8	→	35	13			Reset + 2
Besturing verreschrijver	N-23 S-18	→	36	14	→	H-38	Break ontvangen
SY 1	H-25 ML-24	→	37	15	→	M-19 N-33	Break
+12 V	R-26 ML-26	→	38	16	→	N-16 ML-5	Break
Voorwaarde bandlezer	N-11 R-9	→	39	17	←	H-32	Fase lock
			40	18	←	M-17 N-32	Crypto
			41	19	←	R-27	Break puls 140
			42	20	←	32-12	Ontvangrelais (ver- breken gevoelig)
			43	21			+ 6 V
			44	22			0 V

Bandlezer element 5	J-9	←	23	1	←	NF-15	GELE knop
Bandlezer element 4	J-8	←	24	2	←	NF-1	Bandlezer contact 1
Bandlezer element 3	J-34	←	25	3	←	NF-14	Bandlezer contact 2
Bandlezer element 2	J-32	←	26	4	←	NF-8	Bandlezer contact 3
Bandlezer element 1	J-10	←	27	5	←	NF-22	Bandlezer contact 4
Alarmlijn	N-26 R-35	←	28	6	←	NF-24	Bandlezer contact 5
Ontvangrelais "RUST"	LF-1	→	29	7			
			30	8	→	M-28 ML-7	Ontvangrelais (werk)
			31	9	→	M-6 ML-32	Ontvangrelais (rust)
			32	10			
			33	11	→	E-1 R-8	Alarm
			34	12			
			35	13	←	R-40	Letters "D"
			36	14	←	LF-2	Ontvangrelais "WERK"
			37	15			
			38	16	→	H-14	Fase verlenging uit
			39	17	←	NF-21	WITTE knop
			40	18	→	M-35	WITTE knop + 3,5 sec.
			41	19	←	H-39	Fase verlenging in
			42	20			
			43	21	←	41-22	+ 6 V
			44	22	←	40-21	0 V

Afschakelen verreschrijver	N-29	→	23	1	←	H-33	± 10 msec
Begin RODE lamp	P-34	→	24	2	→	NF-11	RODE lamp (vertraagd)
Break zenden	P-8 S-15	→	25	3	→	K-38	Element AS + NS t 6
+ 12 V stab.	N-27 P-38	→	26	4	→	M-7	Reset teller
Breakpuls 140	P-19	←	27	5	←	N-5 S-17	tr.al.3 (verzon- den crypto tekst)
Voorwaarde infasen	M-30 ML-15	→	28	6	→	N-36 ML-29	Ingang registers
Start teller	M-27	←	29	7	←	N-39	T o
			30	8	→	Q-11	Alarm
			31	9	←	P-39 ML-11	Voorwaarde bandlezer
			32	10	←	N-35	Zenden 1
NS-start	N-17 ML-33	→	33	11	←	J-23	Element A 1
Element C 5	N-18 ML-25	→	34	12	←	K-4	Voorwaarde cijfers
Alarmlijn	Q-28	←	35	13	←	K-16	NS t 6
Bemonsterd ont- vangrelais +t 6	N-38	←	36	14	←	N-40 S-20	Afschakelen voor terugmelding
Ontvangen (1)	P-5	→	37	15	←	N-10	Register B schuiven
Bemonsterd ont- vangrelais (rust)	H-18	→	38	16	←	32-10	ch 3 R
Bandlezer "AAN" puls	N-3 NF-2	←	39	17	←	K-20	Element A 5
Letters "D"	Q-13	←	40	18	←	J-24	Element A 4
Baudsnelheid 2	E-3	→	41	19	←	J-26	Element A 3
Baudsnelheid 11	E-2	→	42	20	←	J-25	Element A 2
			43	21			+ 6 V
			44	22			0 V

			23	1			
			24	2			
			25	3			
			26	4			
			27	5			
			28	6			
			29	7			
Besturing verreschrijver	S-18 ML-2	→	30	8			
			31	9			
			32	10			
			33	11			
			34	12			
			35	13			
			36	14	→	LF-11	Bekrachtiging z/o relais xx
			37	15	←	R-25 ML-21	Break zenden
			38	16	←	N-7 ML-4	tr.al.2 (ver- zonden klare tekst)
			39	17	←	N-5 ML-10	tr.al.3 (verzon- den crypto tekst)
			40	18	←	P-36 S-30	Besturing verre- schrijver
CRYPTO	N-37 ML-23		41	19	←	L-13	Crypto*
			42	20	→	R-14	Afschakelen voor terugmelding
			43	21			+ 6 V
			44	22			0 V

4,3 V wissel	TR-7	→	23	1			
			24	2			
			25	3			
			26	4	→	LF-13	Basis T 1
			27	5	→	32-2	ch 4 tr.
			28	6	→	E-4 U-36	+ 12 V ruw
			29	7			
			30	8			
			31	9			
			32	10			
			33	11			
			34	12			
			35	13			
			36	14			
			37	15			
+6 V ruw	U-38	←	38	16			
+6 V ruw	TR-23	→	39	17			
emitter T 1	LF-19 LF-20	←	40	18			
			41	19			
collector T 1 + 6 V	LF-6 LF-7	←	42	20			+ 6 V
			43	21	→	41-25	+6 V
			44	22	→	40-26	0 V

			23	1			
			24	2			
			25	3			
			26	4			
			27	5			
			28	6			
			29	7			
+12 V=	NF-6 TR-21	←	30	8			
12 V wissel	TR-26	→	31	9			
12 V wissel	TR-20	→	32	10			
+60 V ruw	TR-1	←	33	11			
60 V wissel	TR-13	→	34	12			
60 V wissel	TR-2	→	35	13			
+12 V ruw	T-6	→	36	14			
			37	15			
6 V afvlakking	T-38	→	38	16			
			39	17			
			40	18			
			41	19			
			42	20			
			43	21		41-26	+ 6 V
			44	22		40-27	0 V

Connector 28

Connector 29

Connector punt	Connector letter	Signaal	Gaat naar	Connector punt	Connector letter	Signaal	Gaat naar
1	A	S 11	A1-12	1	A	S 31	A3-12
2	D	M 11	A1-37	2	D	M 31	A3-37
3	H	M 14	A1-34	3	H	M 34	A3-34
4	L	S 23	A2-20	4	L	S 43	A4-20
5	P	M 23	A2-38	5	P	M 43	A4-38
6	B	S 16	A1-16	6	B	S 36	A3-16
7	E	M 12	A1-36	7	E	M 32	A3-36
8	J	S 21	A2-12	8	J	S 41	A4-12
9	M	M 21	A2-37	9	M	M 41	A4-37
10	C	S 13	A1-20	10	C	S 33	A3-20
11	F	M 13	A1-38	11	F	M 33	A3-38
12	K	S 26	A2-16	12	K	S 46	A4-16
13	N	M 22	A2-36	13	N	M 42	A4-36
14	R	M 24	A2-34	14	R	M 44	A4-34

Connector 30

Connector 33

1	A	S 51	A5-12	1	A	S 71	A7-12
2	D	M 51	A5-37	2	D	M 71	A7-37
3	H	M 54	A5-34	3	H	M 74	A7-34
4	L	S 63	A6-20	4	L	S 83	A8-20
5	P	M 63	A6-38	5	P	M 83	A8-38
6	B	S 56	A5-16	6	B	S 76	A7-16
7	E	M 52	A5-36	7	E	M 72	A7-36
8	J	S 61	A6-12	8	J	S 81	A8-12
9	M	M 61	A6-37	9	M	M 81	A8-37
10	C	S 53	A5-20	10	C	S 73	A7-20
11	F	M 53	A5-38	11	F	M 73	A7-38
12	K	S 66	A6-16	12	K	S 86	A8-16
13	N	M 62	A6-36	13	N	M 82	A8-36
14	R	M 64	A6-34	14	R	M 84	A8-34

Connector 34

1	A	S 91	A9-12
2	D	M 91	A9-37
3	H	M 94	A9-34
4	L		
5	P		
6	B	M 96	A9-16
7	E	M 92	A9-36
8	J		
9	M		
10	C	S 93	A9-20
11	F	M 93	A9-38
12	K		
13	N		
14	R		

Connector 31

Connector punt	Connector letter	Signaal	Gaat naar
1	A	ch 1 K	B-35
2	D	ch'1, 2, 3 k	B-31
3	H	ch 2 tr	C-31
4	L	ch 5 R	E-5
5	P	ch' 3-7 R	C-13
6	B	ch 2 k	B-40
7	E	ch" 1,2,3 k	B-30
8	J	ch 3 R	E-18
9	M	ch 1 tr ,ch 6 r	C-32
10	C	ch 3 k	B-39
11	F	ch 1 R	D-42
12	K	ch 4 R	E-8
13	N	ch 7 R	C-14
14	R	ch 2 R	E-17

Connector 32

1	A	ch"'1,2,3 k= ch" 1,2 tr	C-35
2	D	ch 4 tr	T-5
3	H	aarde	40-6
4	L	off line	N-19
5	P	12 V wissel	TR-9
6	B	tr alarm 3	N-5
7	E	aarde	40-11
8	J	verbreken ong. ontvangrelais	H-16
9	M	off line	H-15
10	C	ch 3 R	R-16
11	F	reset alarm	B-38
12	K	ontvangrelais	P-20
13	N	kopie uit	N-12
14	R	enkelstroom	LF-5

Tong 3	Y-9	→	23	1	←	Y-11	Tong 1
Bandlezer contact 3	KF-8	←	24	2	←	Y-10	Tong 2
Tong 4	Y-7	→	25	3	→	KF-14	Bandlezer contact 2
Bandlezer contact 4	KF-22	←	26	4	←	Y-3	Tong 5
Bandlezer contact 5	KF-24	←	27	5	←	W-33	+60 V
			28	6	→	KF-2	Bandlezer "AAN" puls
			29	7			
Strakband contact	SB-2	→	30	8	←	KF-18	Besturing bandlezer
			31	9	←	KF-5	Bemonstering bandlezer
			32	10	→	KF-1	Bandlezer contact 1
			33	11	→	Y-23	Versterkte bemon- stering bandlezer
			34	12	→	PE-1	Instelling bandlezerstroom
			35	13			
Bekrachtiging bandlezer	Y-21	←	36	14	→	VF-4	Verreschrijver bekrachtiging 1
			37	15	→	KF-9	Verreschrijver contact 2
Instelling collec- tor TOR 39	PE-10	←	38	16	←	VF-3	Verreschrijver contact 1
Basis TOR 39	VF-12	←	39	17	→	VF-8	Verreschrijver bekrachtiging 2
Besturing verreschrijver	KF-16	→	40	18	←	W-33 PE-3	+60 V
			41	19	→	PE-9	Instelling collec- tor T 32
			42	20	←	KF-19 W-20	+12 V
			43	21			
0 V	KF-12 W-44	→	44	22			

W = Kaart W

KF = Koppelingsfilter

VF = Verreschrijver-
filter

SB = Strakbandcontact

SP = Schakelpaneel

BE = Bedieningseenheid

PE = Potentiometereenheid

BM = Bandlezermontagebeugel

TR = Transformatoreenheid

GELE stroom	SP-4	←	23	1	←	KF-17	GELE lamp
RODE stroom	SP-5	←	24	2	←	KF-11	RODE lamp
WITTE stroom	SP-6	←	25	3	←	KF-4	WITTE lamp
BLAUWE stroom	SP-1	←	26	4	←	KF-23	BLAUWE lamp
GROENE stroom	SP-3	←	27	5	←	KF-10	GROENE lamp
			28	6		SP-14	
			29	7	←	SP-8	GROENE basis
			30	8	→	KF-25	GROENE knop
			31	9	←		RODE basis
			32	10			
+60 V	V-18 V-5	→	33	11			
			34	12			
			35	13	→	KF-3	RODE knop
			36	14	←	SP-17	WITTE basis
			37	15	→	KF-21	WITTE knop
GEEL contact	SP-12	←	38	16	←	SP-11	GELE basis
WIT contact	SP-18	←	39	17	→	KF-15	GELE knop
ROOD contact	SP-9	←	40	18			
GROEN contact	SP-15	←	41	19			
			42	20	←	V-20 SP-2	+12 V
			43	21			
0 V	V-44		44	22	←		0 V

V = Kaart V

KF = Koppelingsfilter

VF = Verreschrijver-
filter

SB = Strakbandcontact

SP = Schakelpaneel

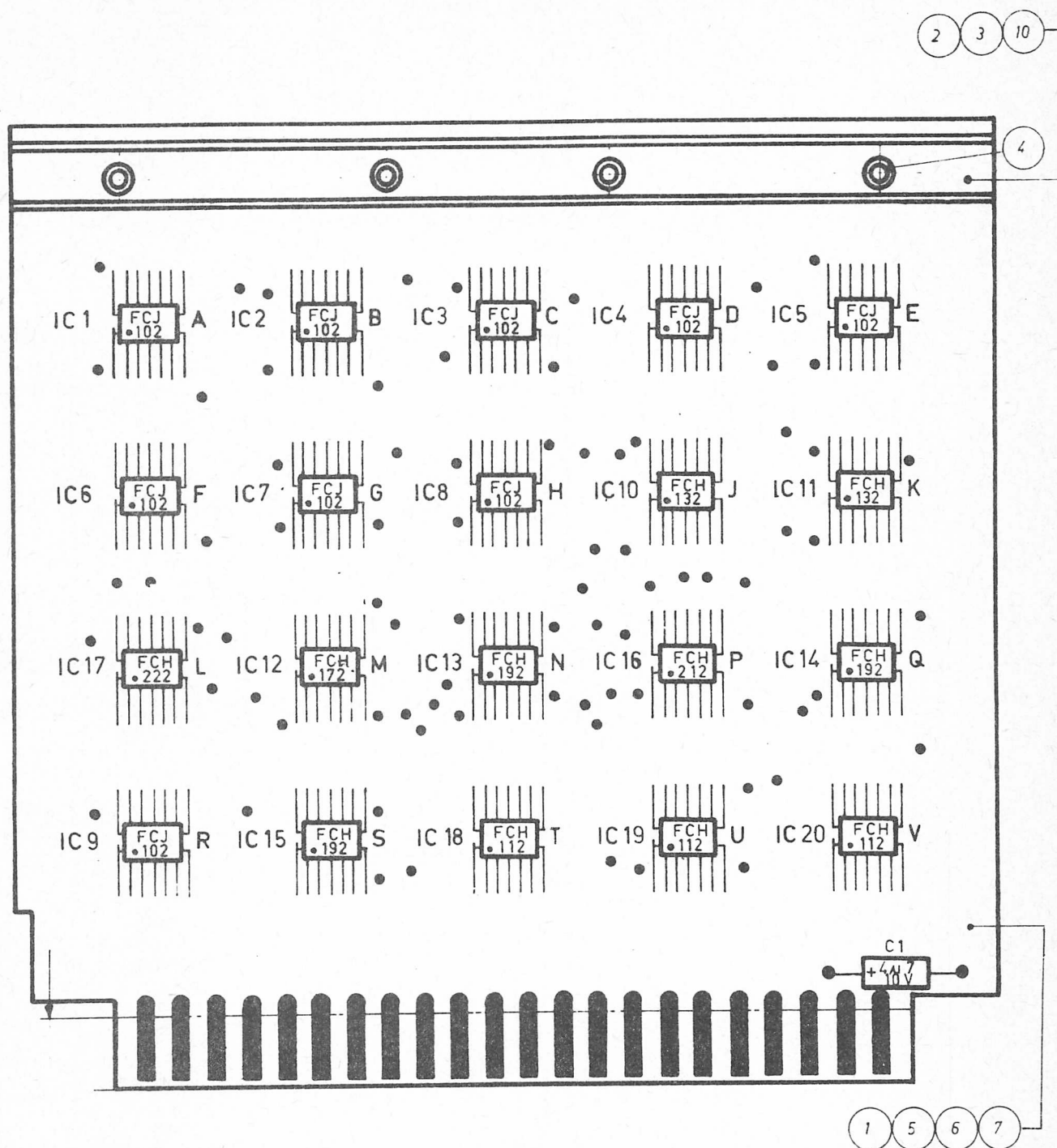
BE = Bedieningseenheid

PE = Potentiometer-
eenheid

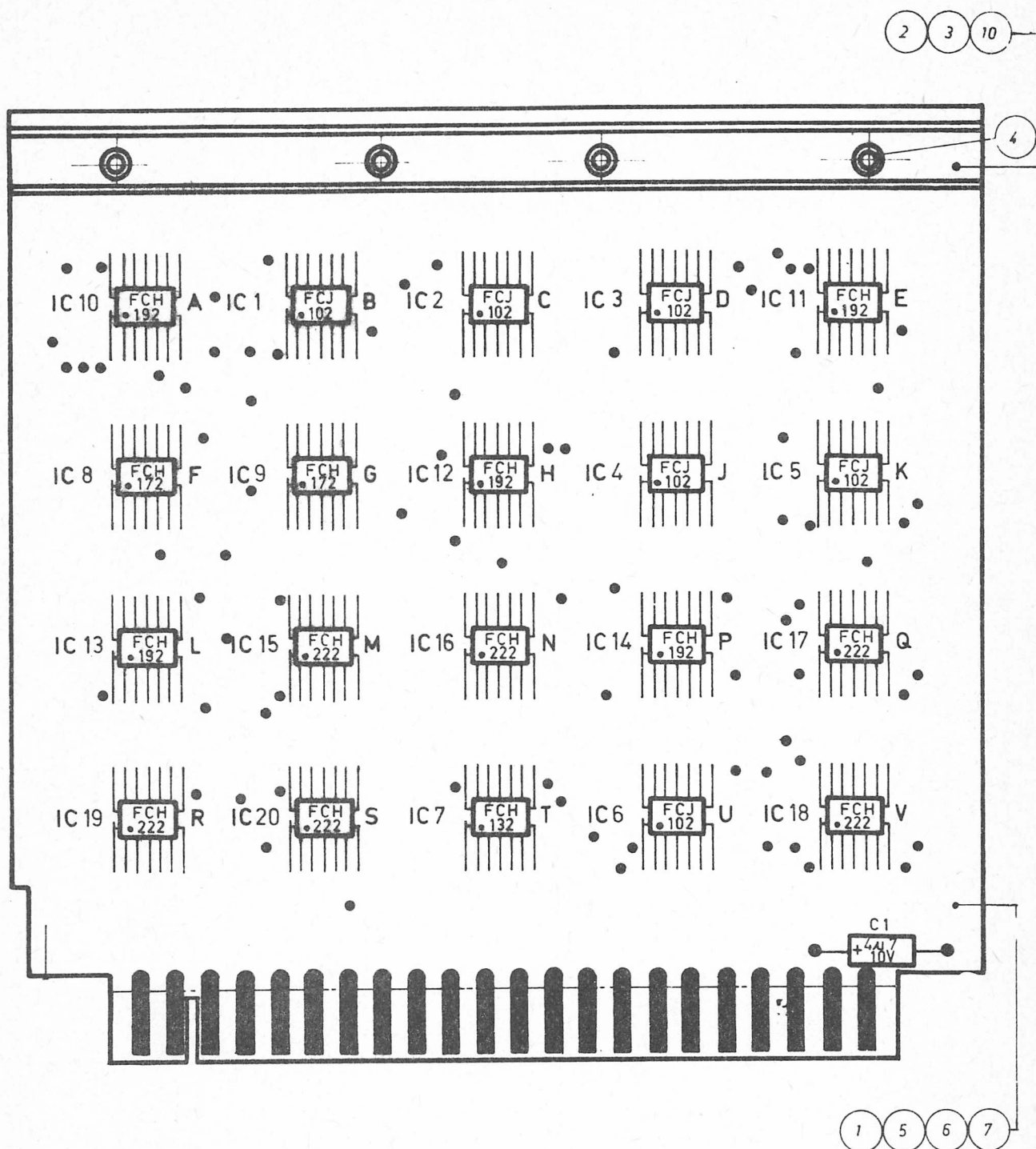
BM = Bandlezermontagebeugel TR = Transformatoreenheid

CONFIDENTIEEL

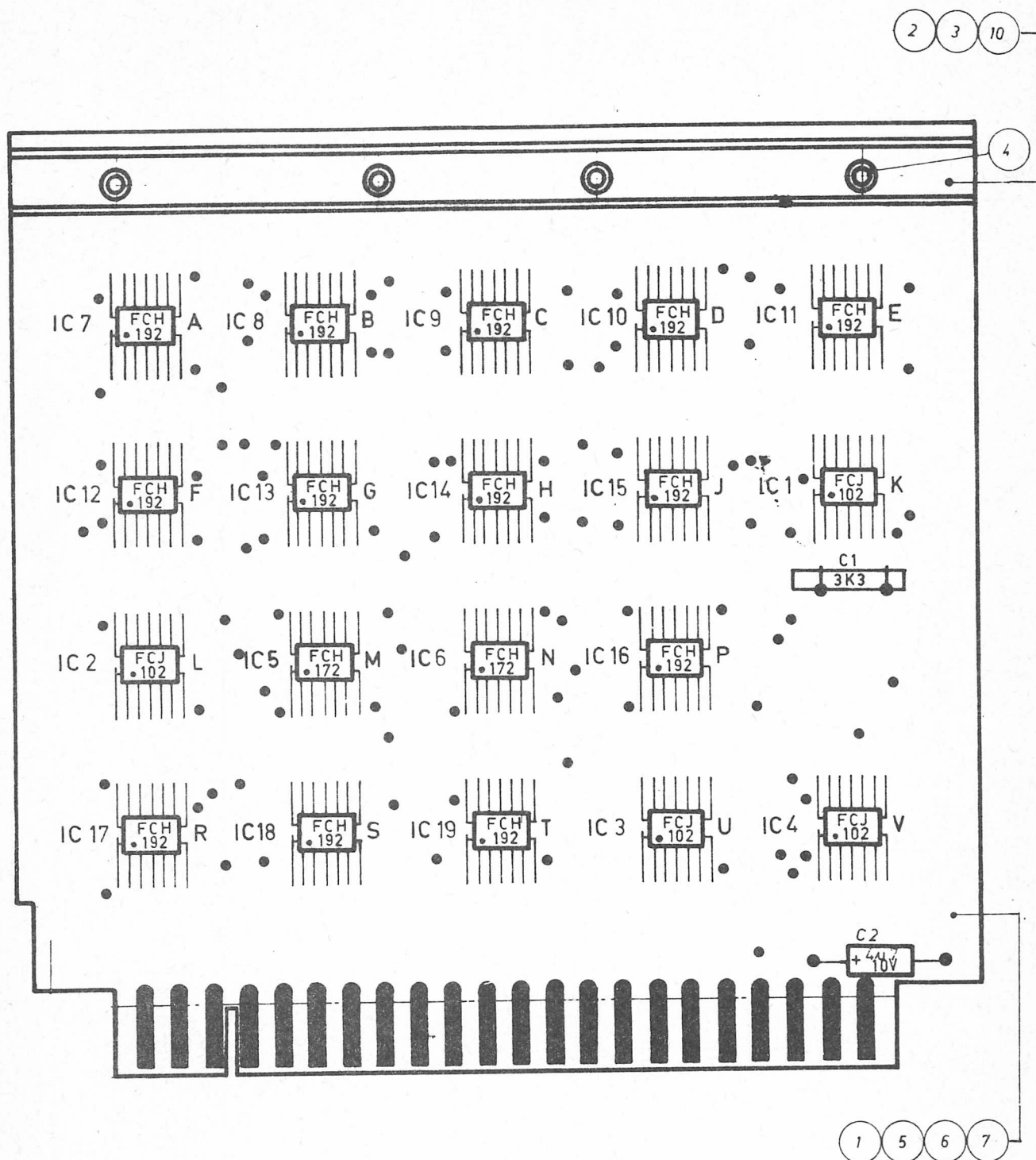
Connector 2 (ABK) Kaart W



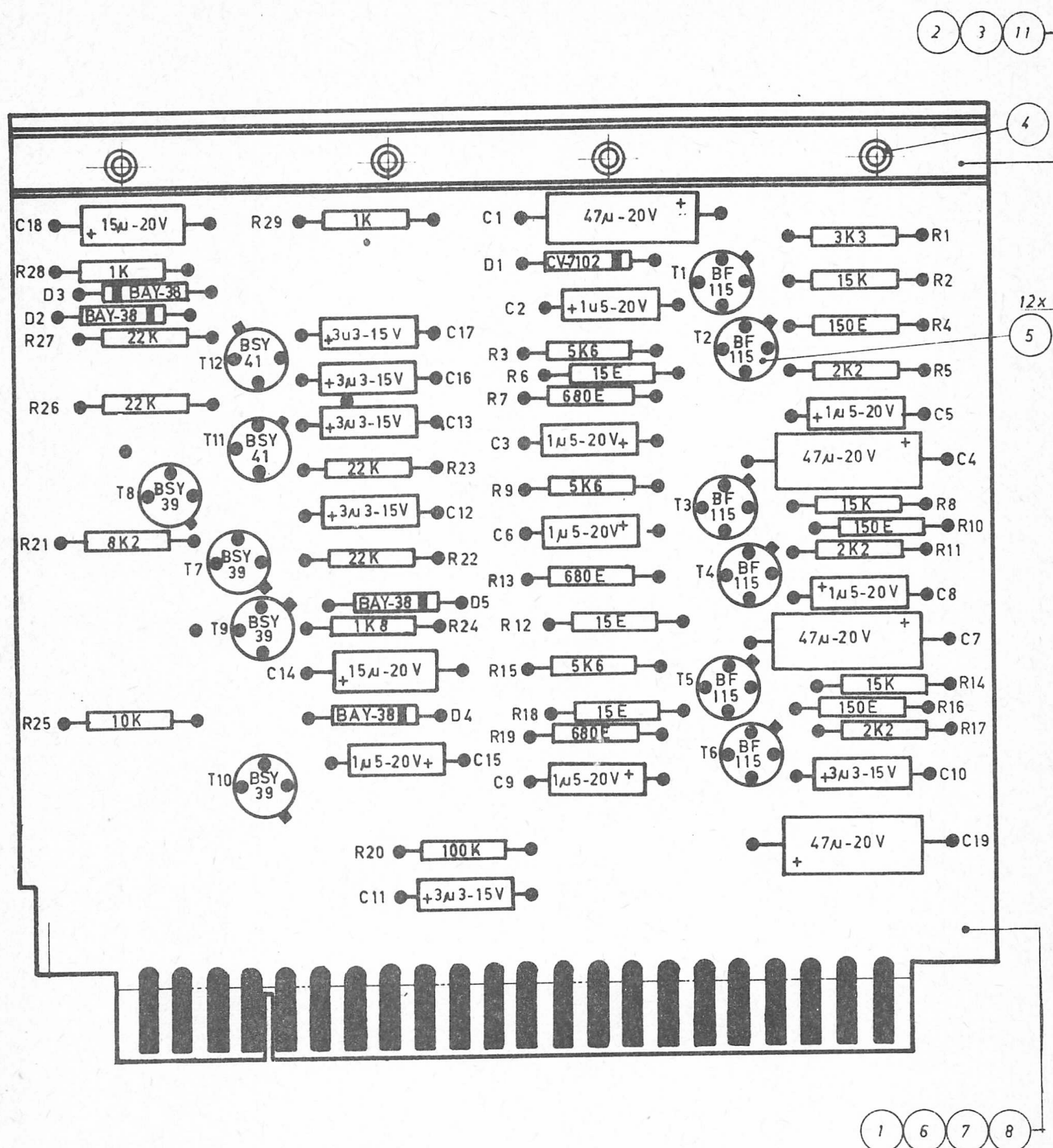
Samenstel 56/A Kaart A



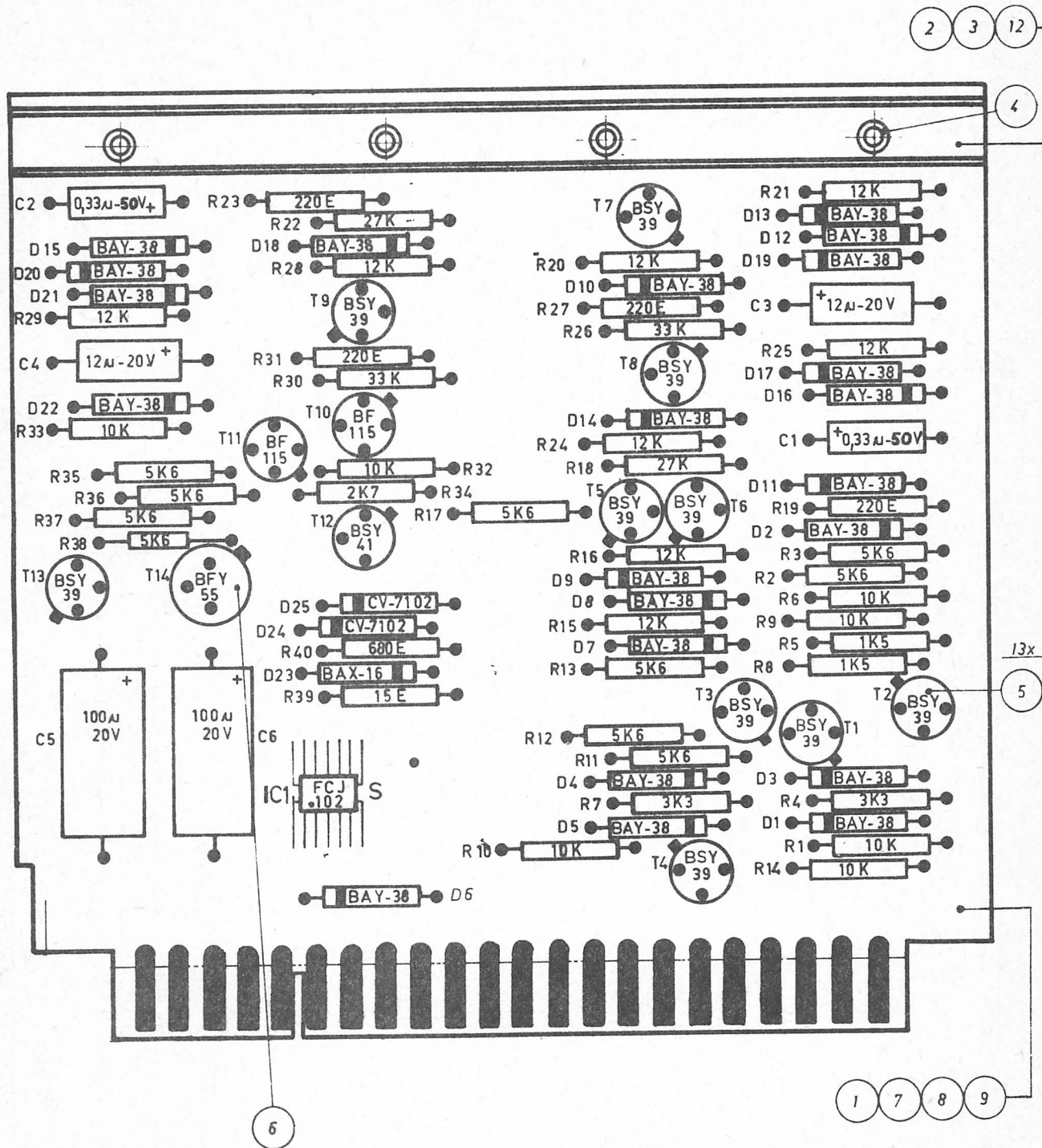
Samenstel 56/B Kaart B



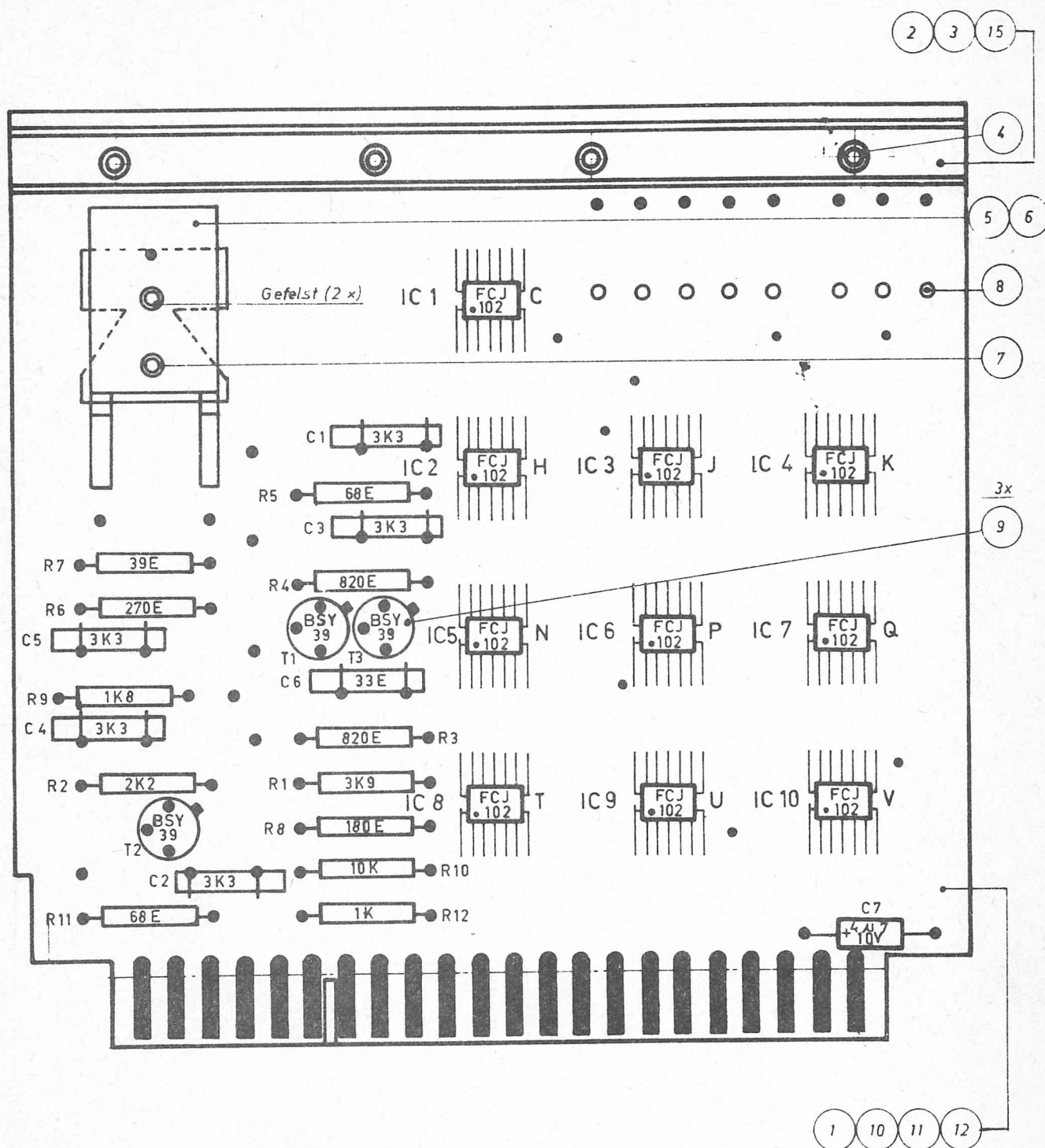
Samenstel 56/C Kaart C



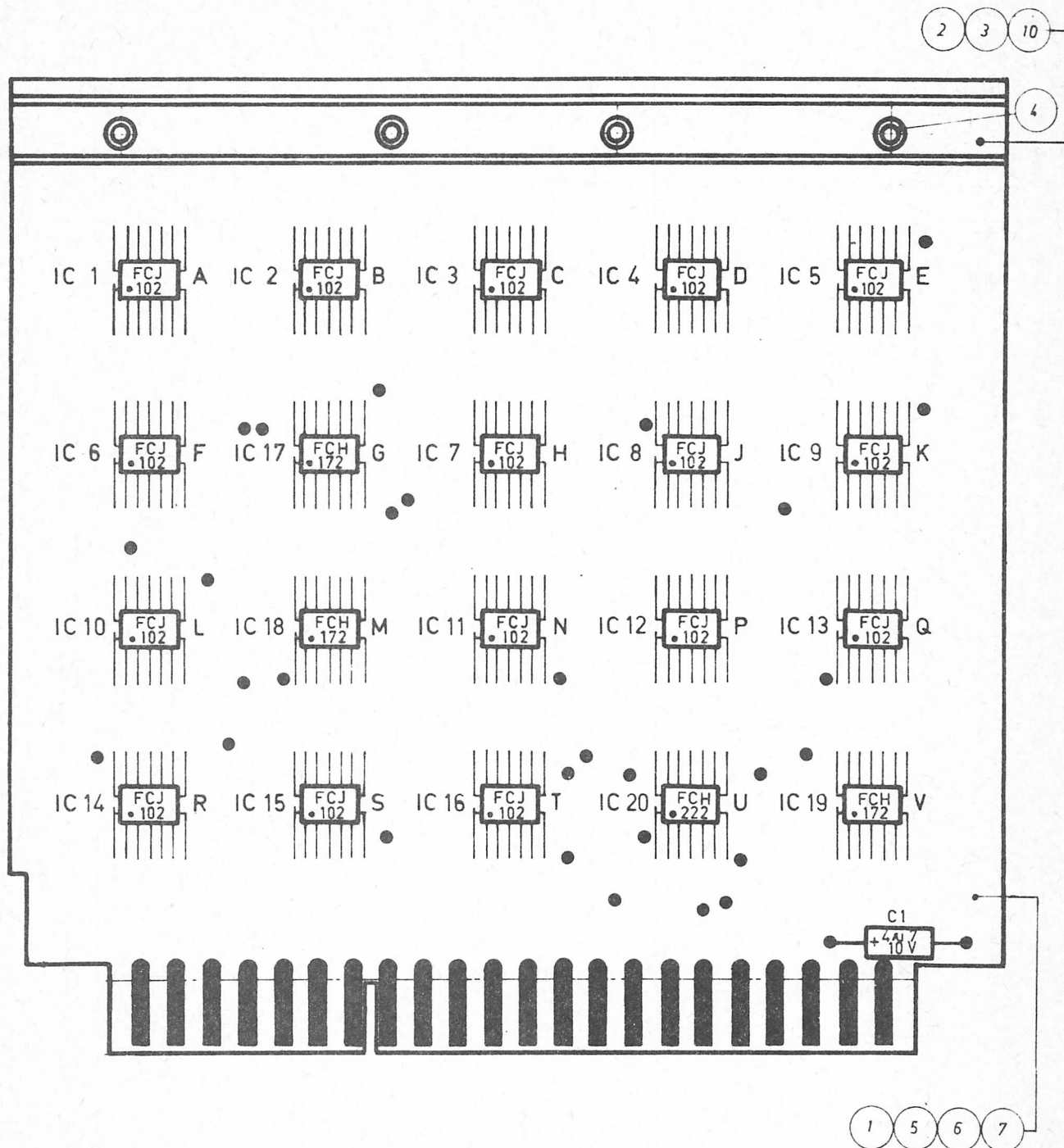
Samenstel 56/D Kaart D



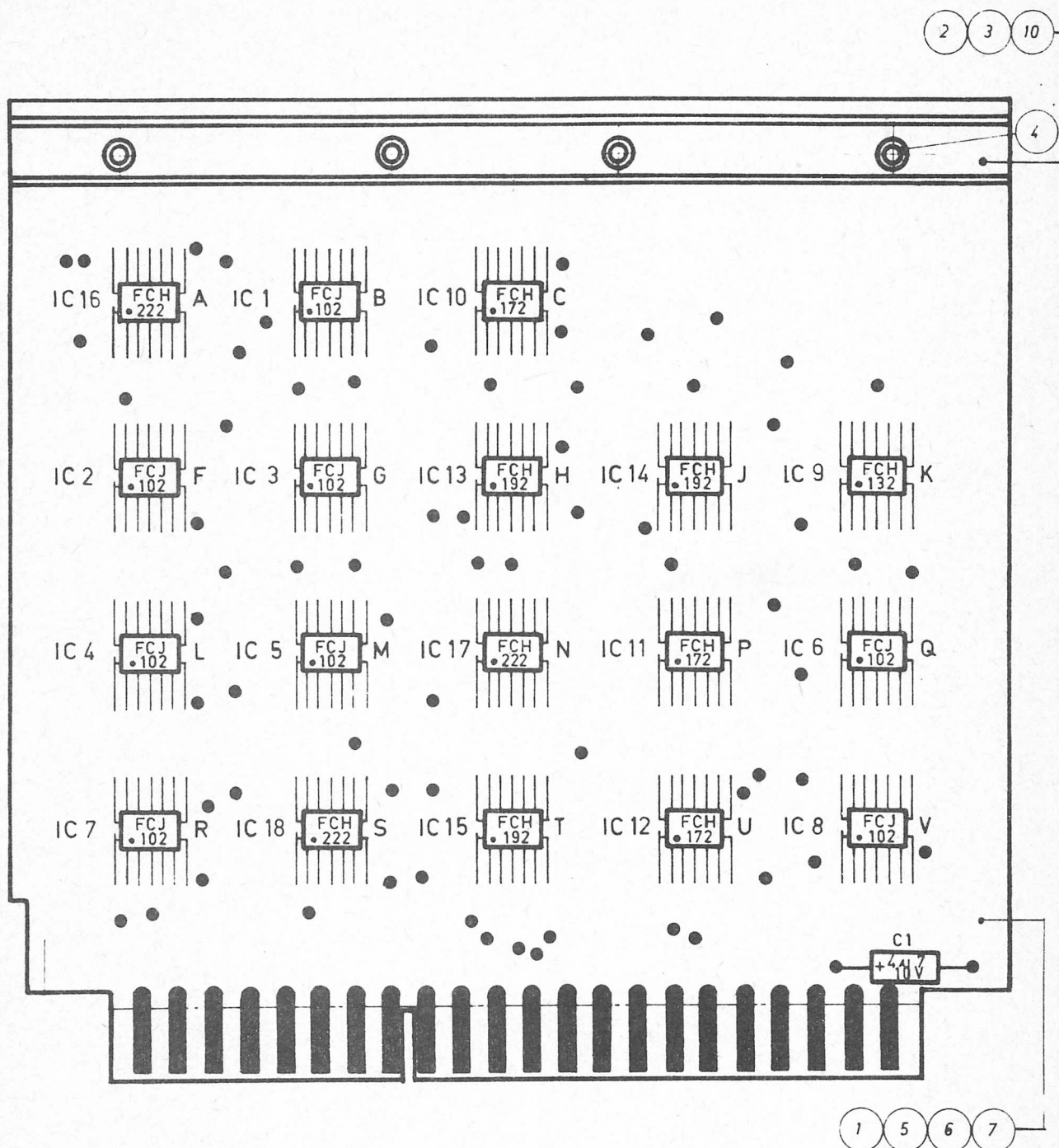
Samenstel 56/E Kaart E



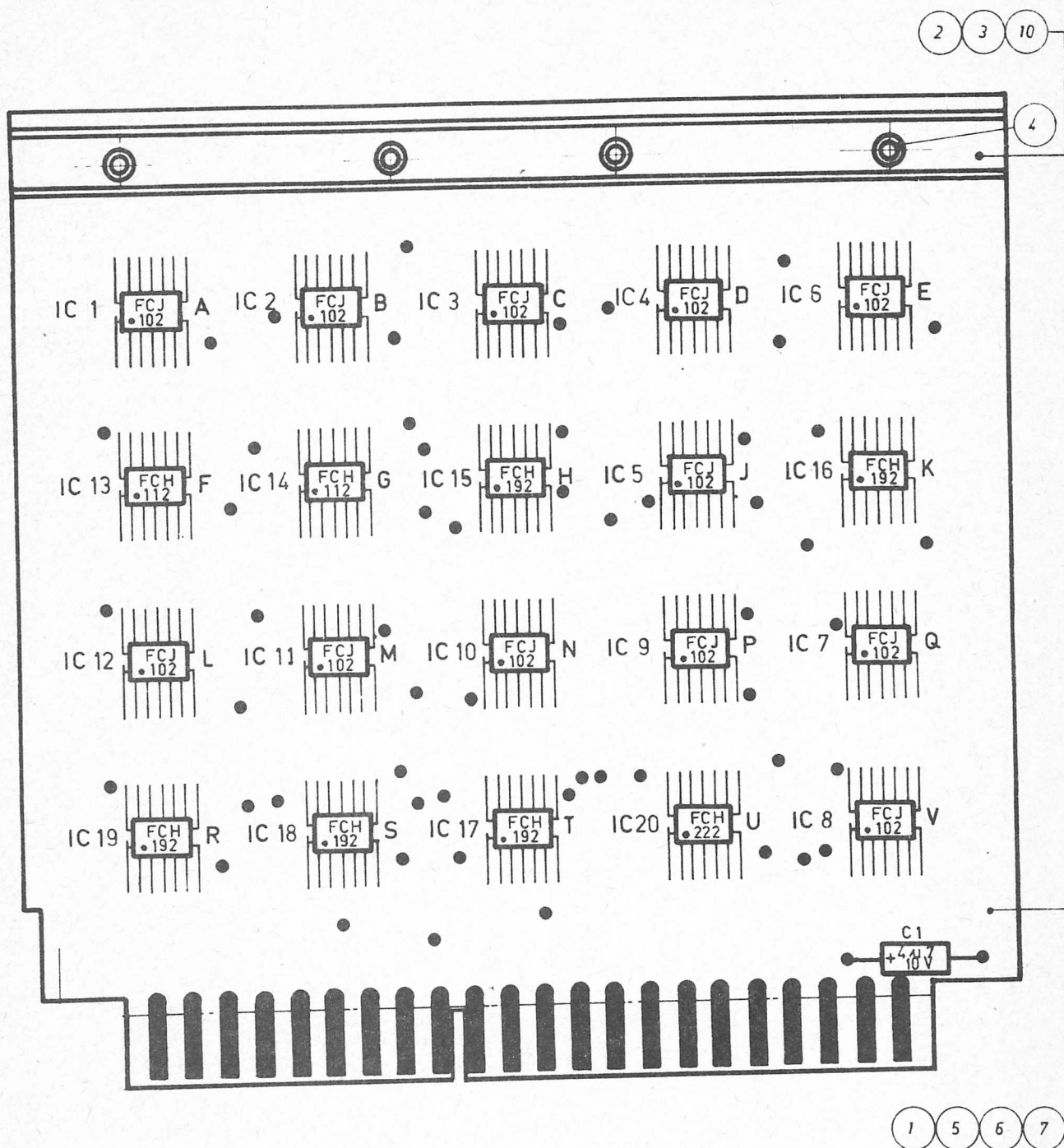
Samenstel 56/F Kaart F



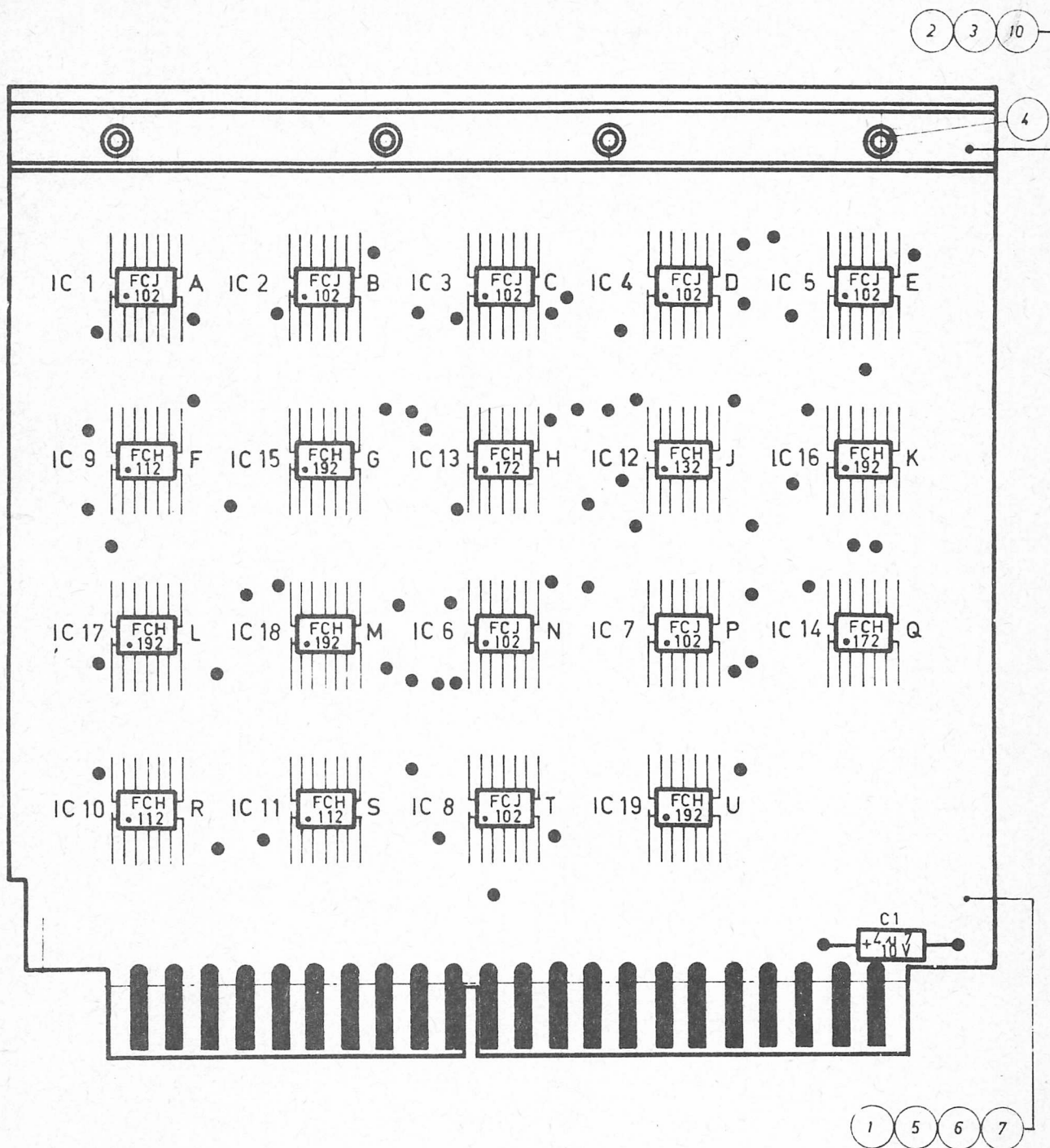
Samenstel 56/G Kaart G



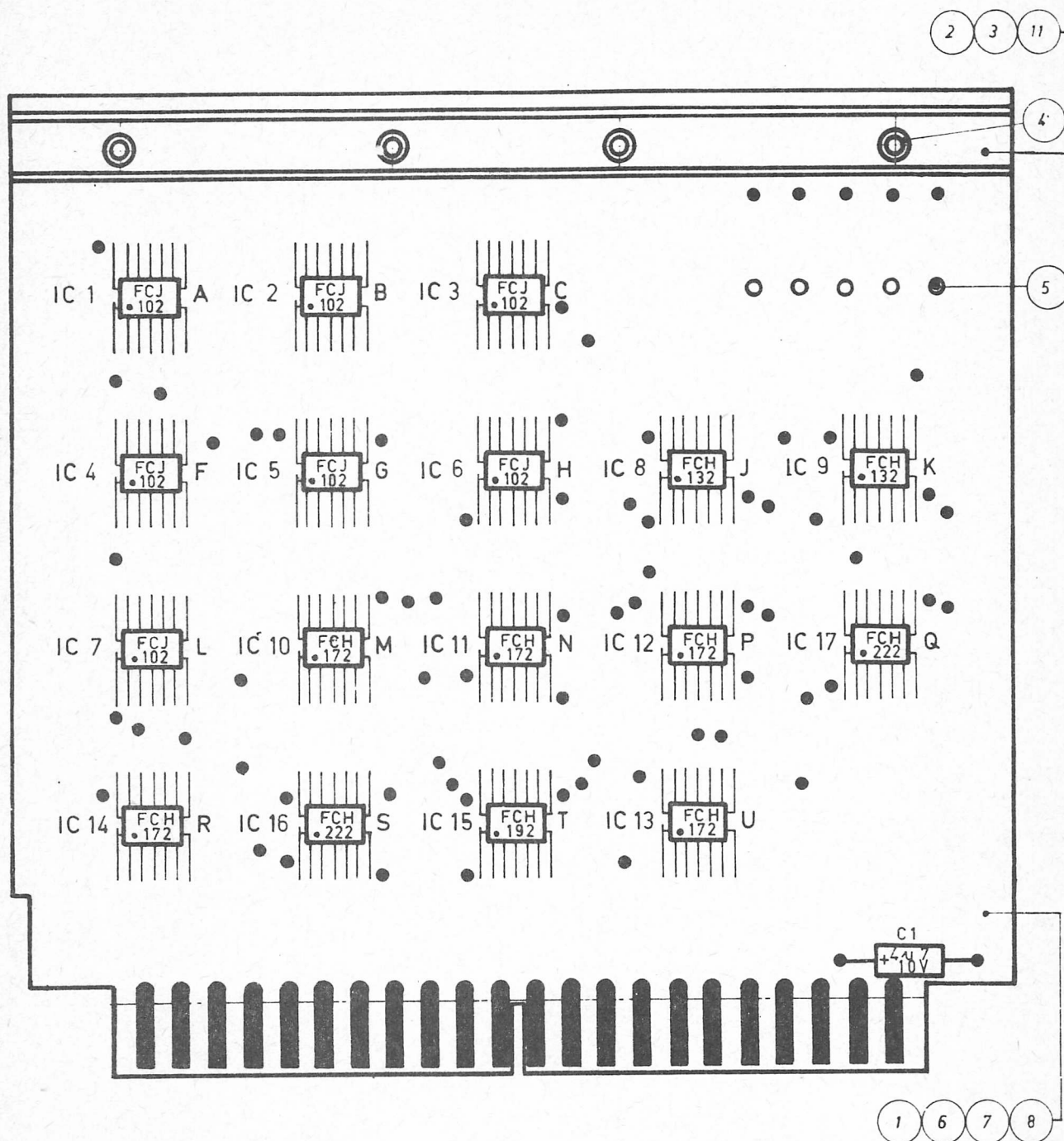
Samenstel 56/H Kaart H



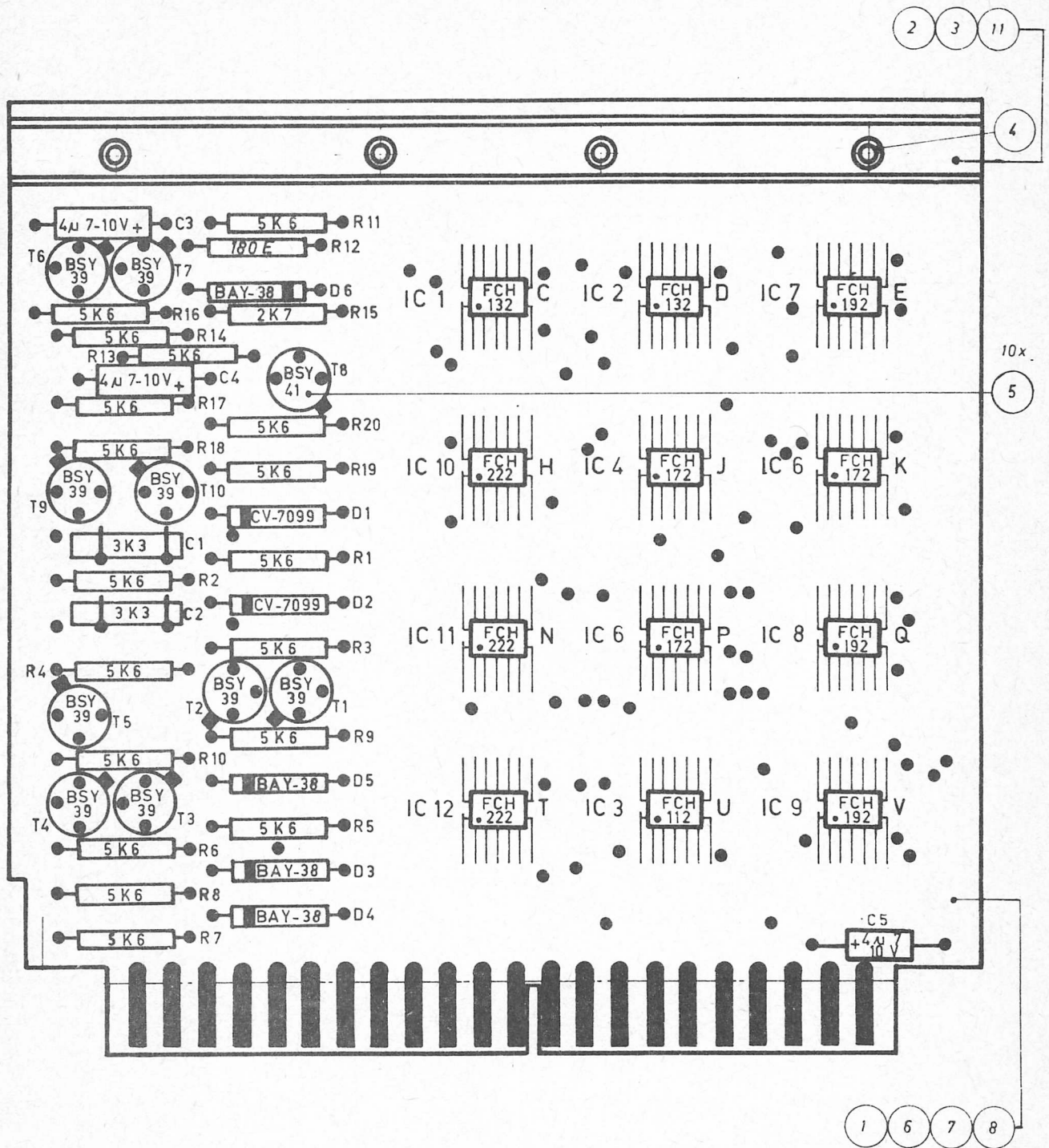
Samenstel 56/J Kaart J



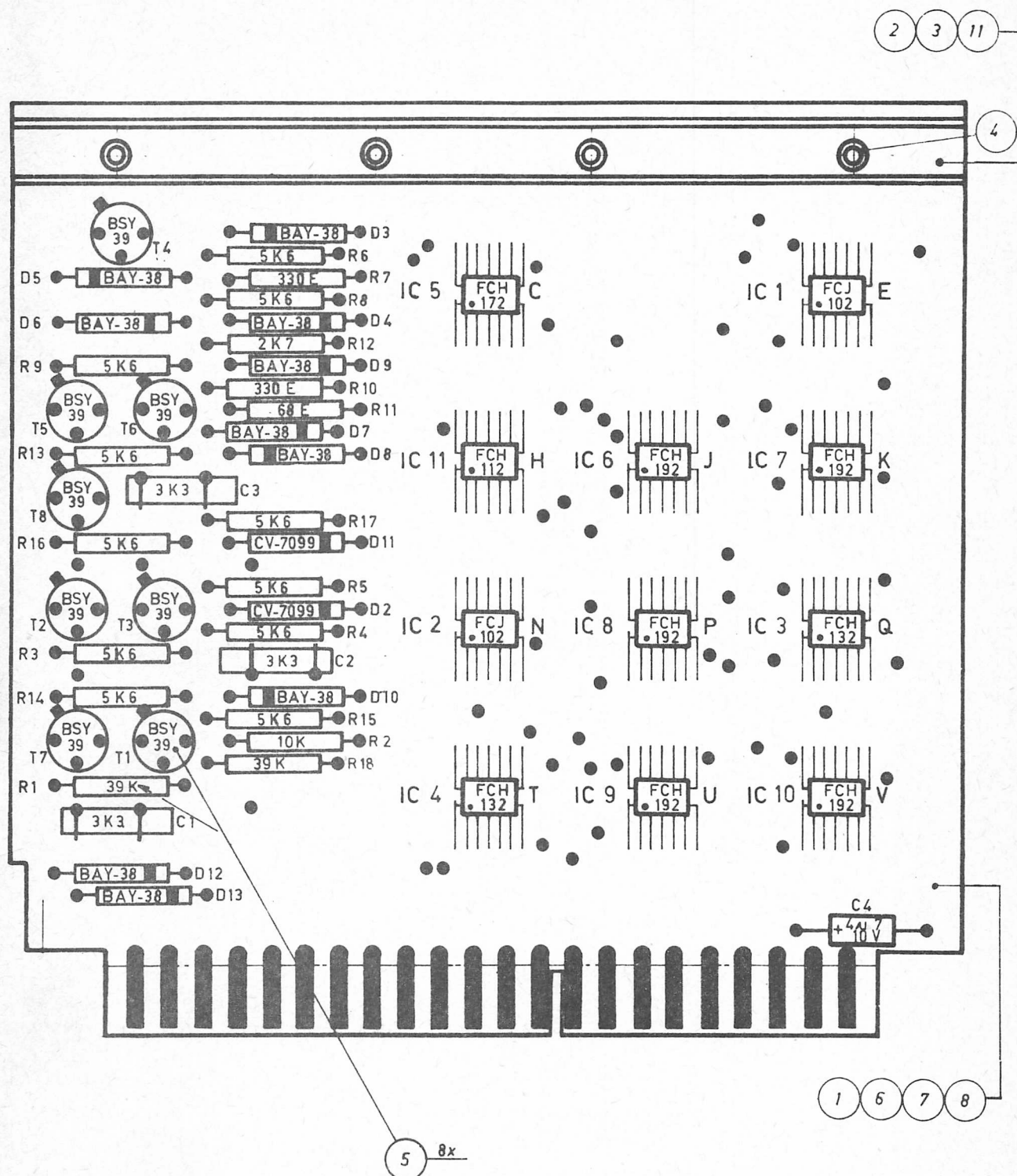
Samenstel 56/K Kaart K



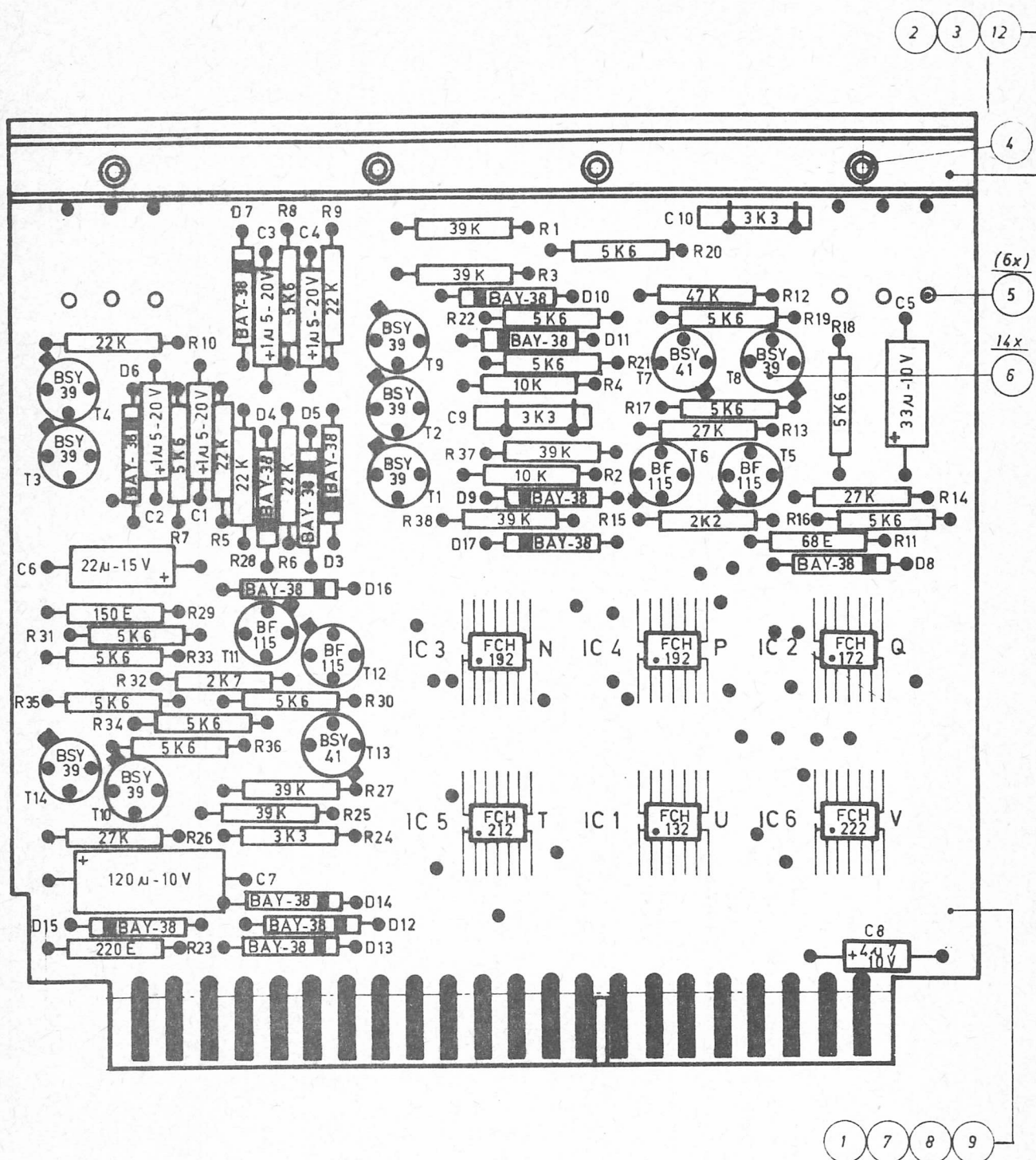
Samenstel 56/L Kaart L



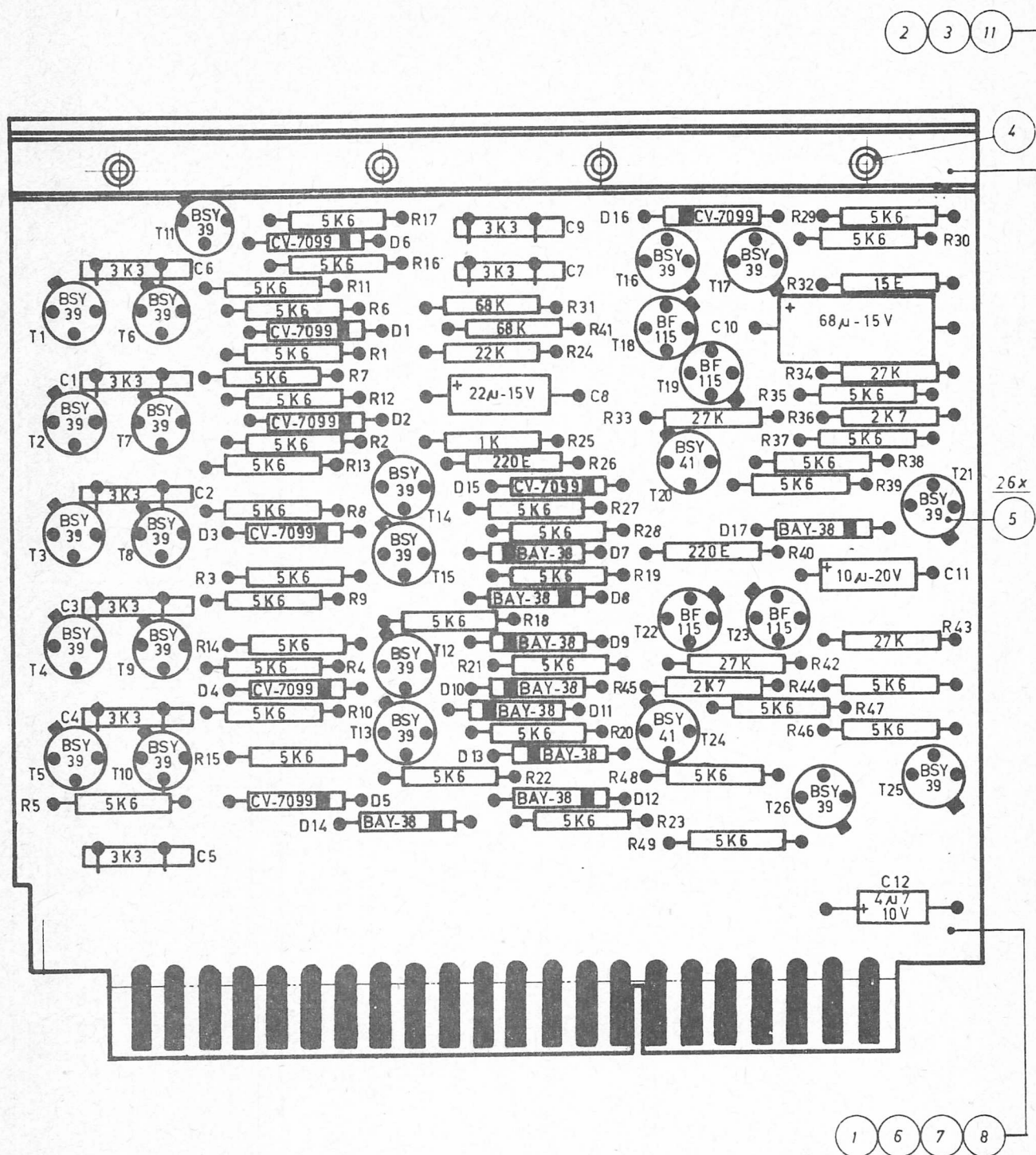
Samenstel 56/M Kaart M



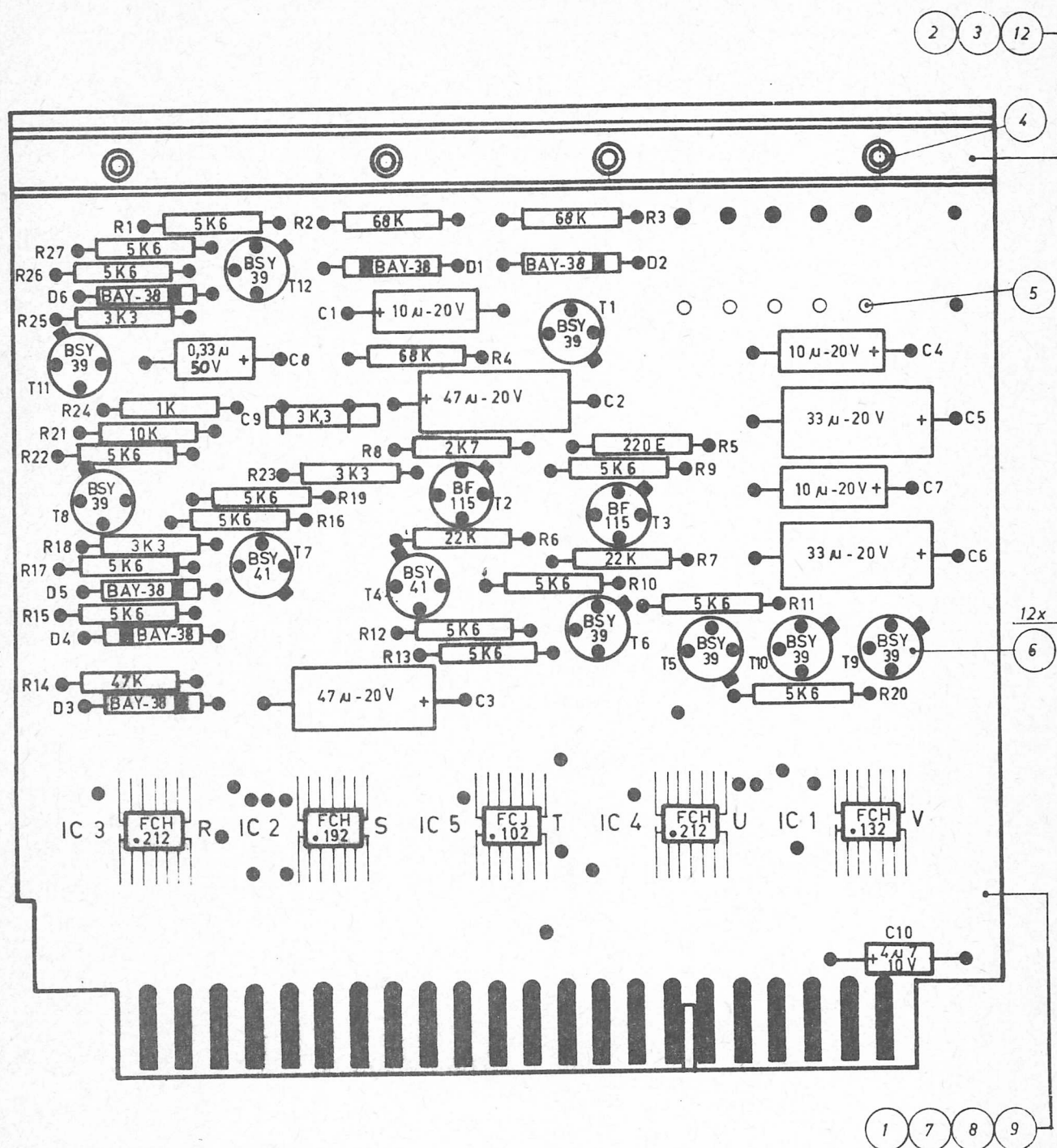
Samenstel 56/N Kaart N



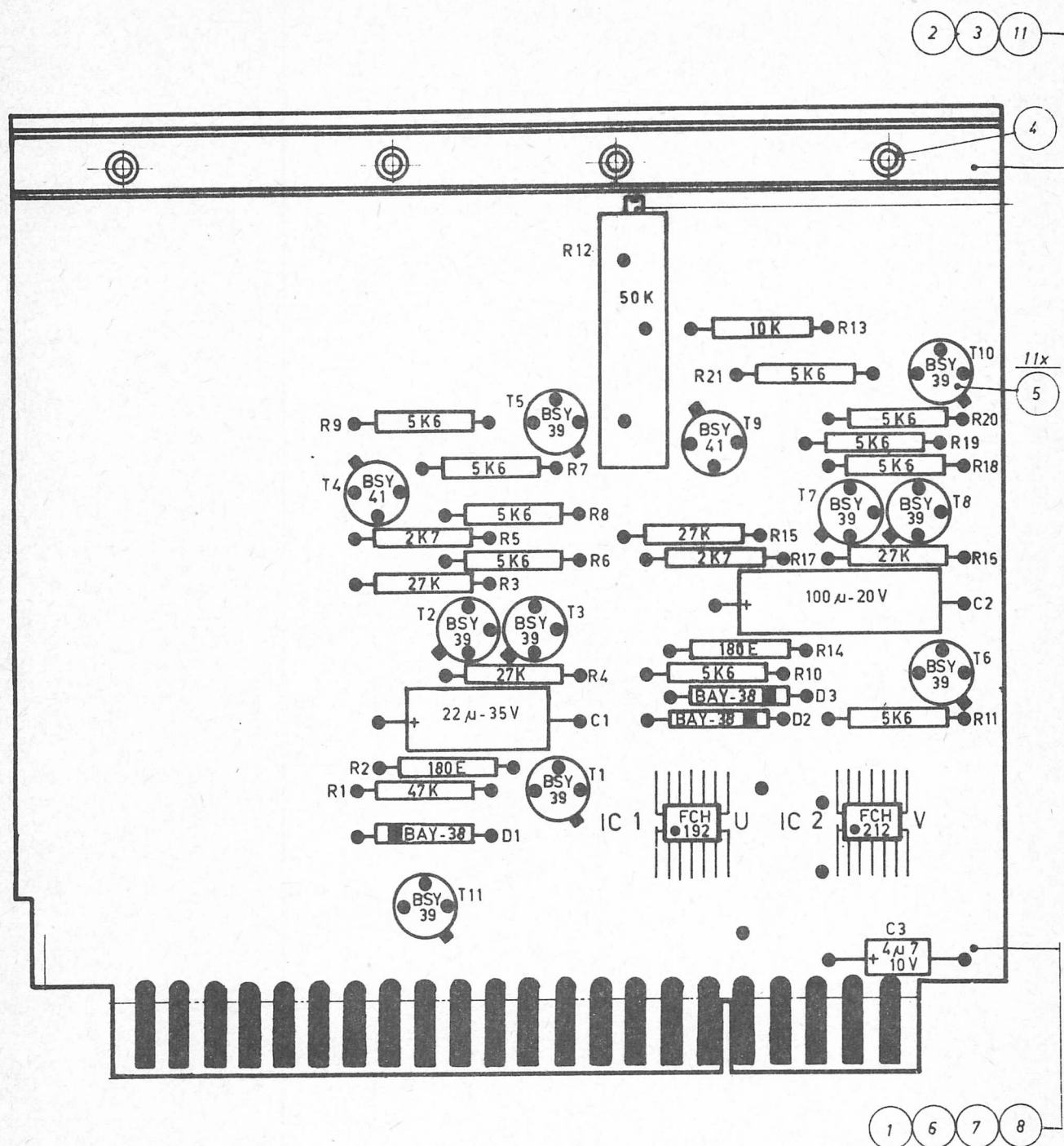
Samenstel 56/P Kaart P



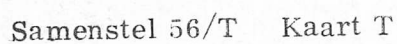
Samenstel 56/Q Kaart Q

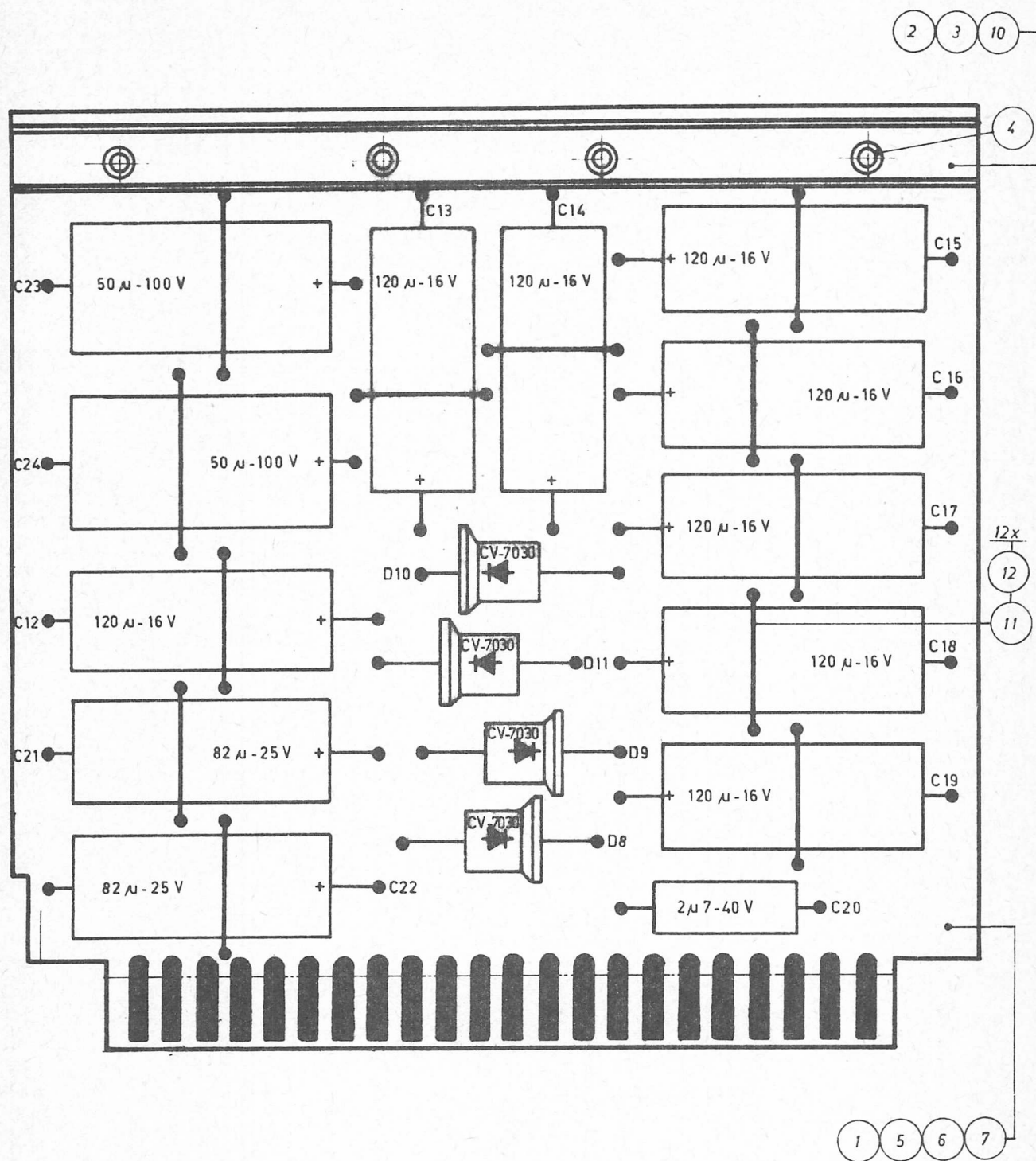


Samenstel 56/R Kaart R

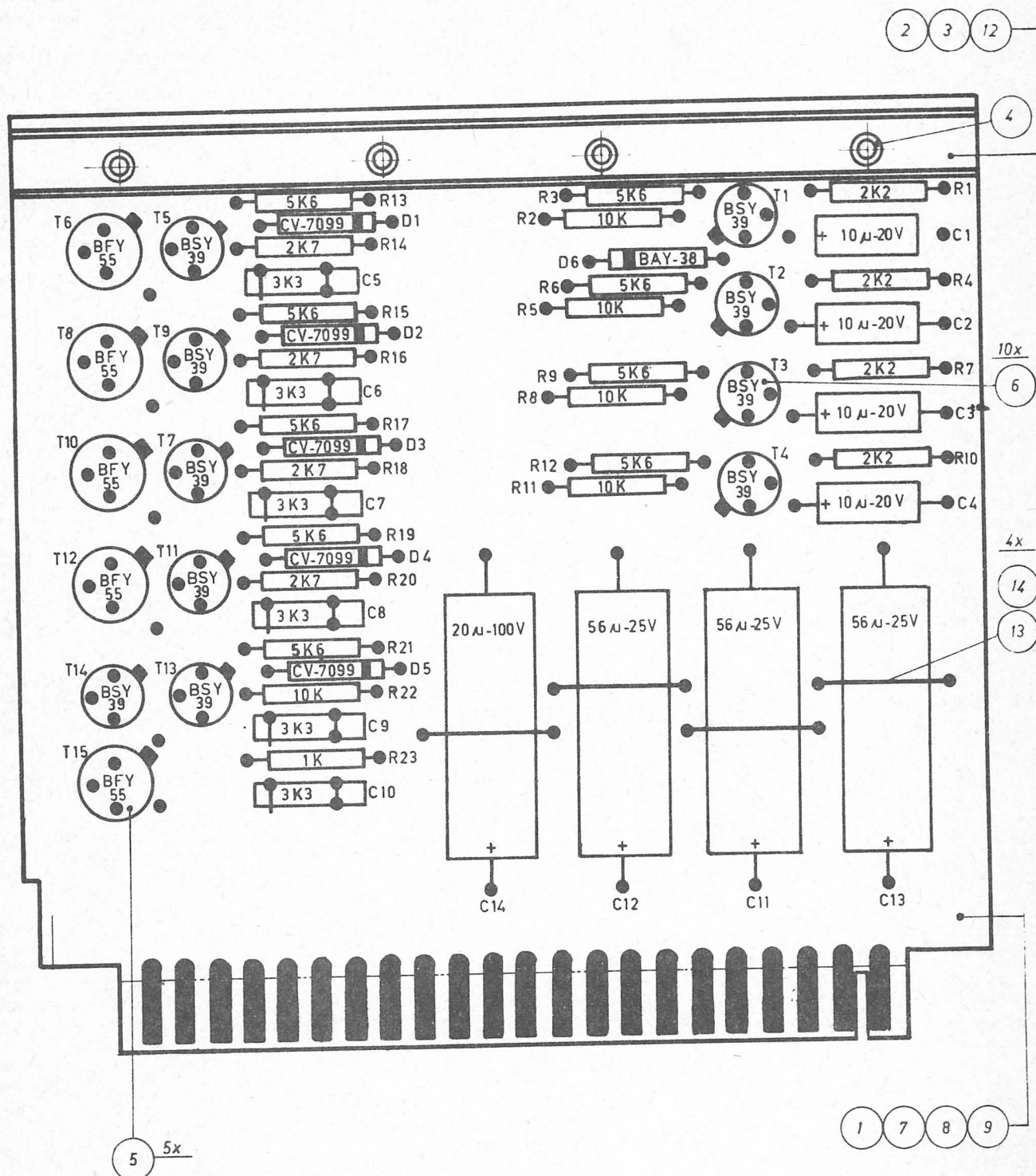


Samenstel 56/S Kaart S

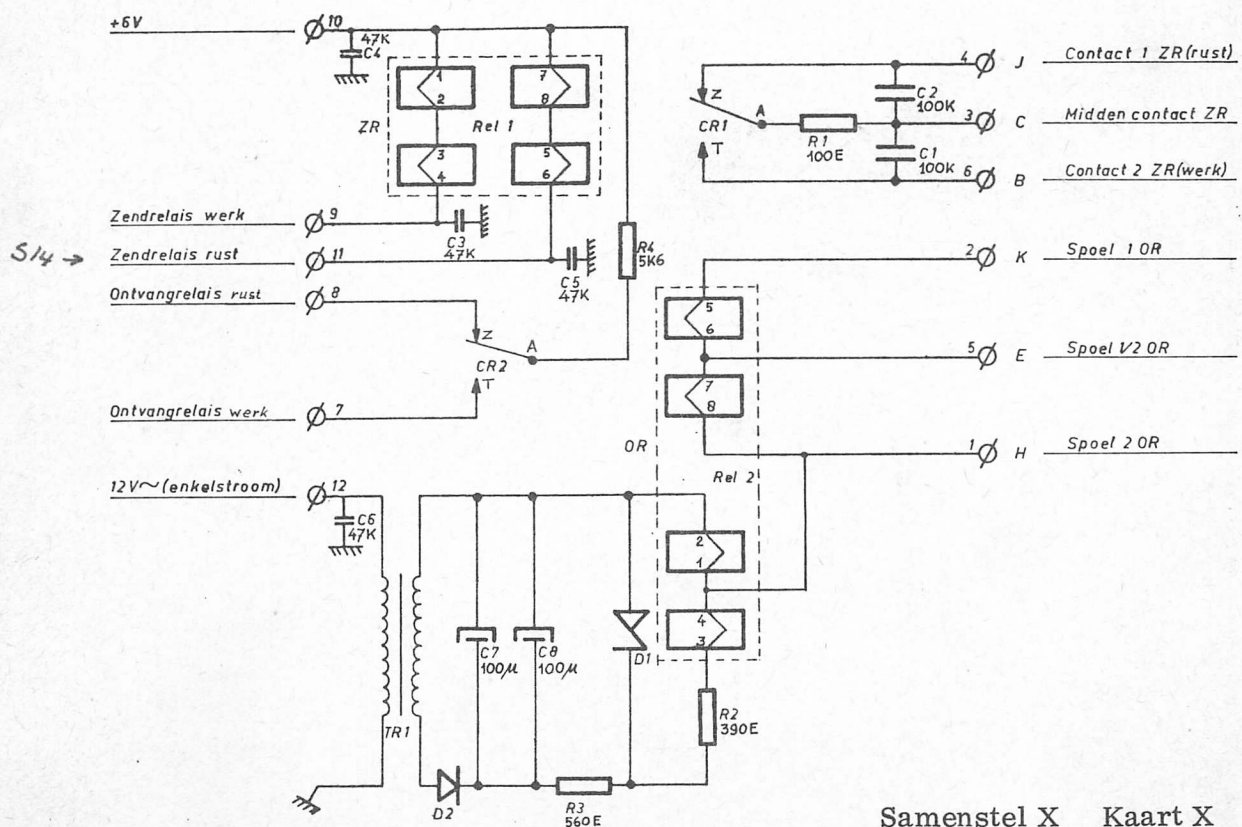
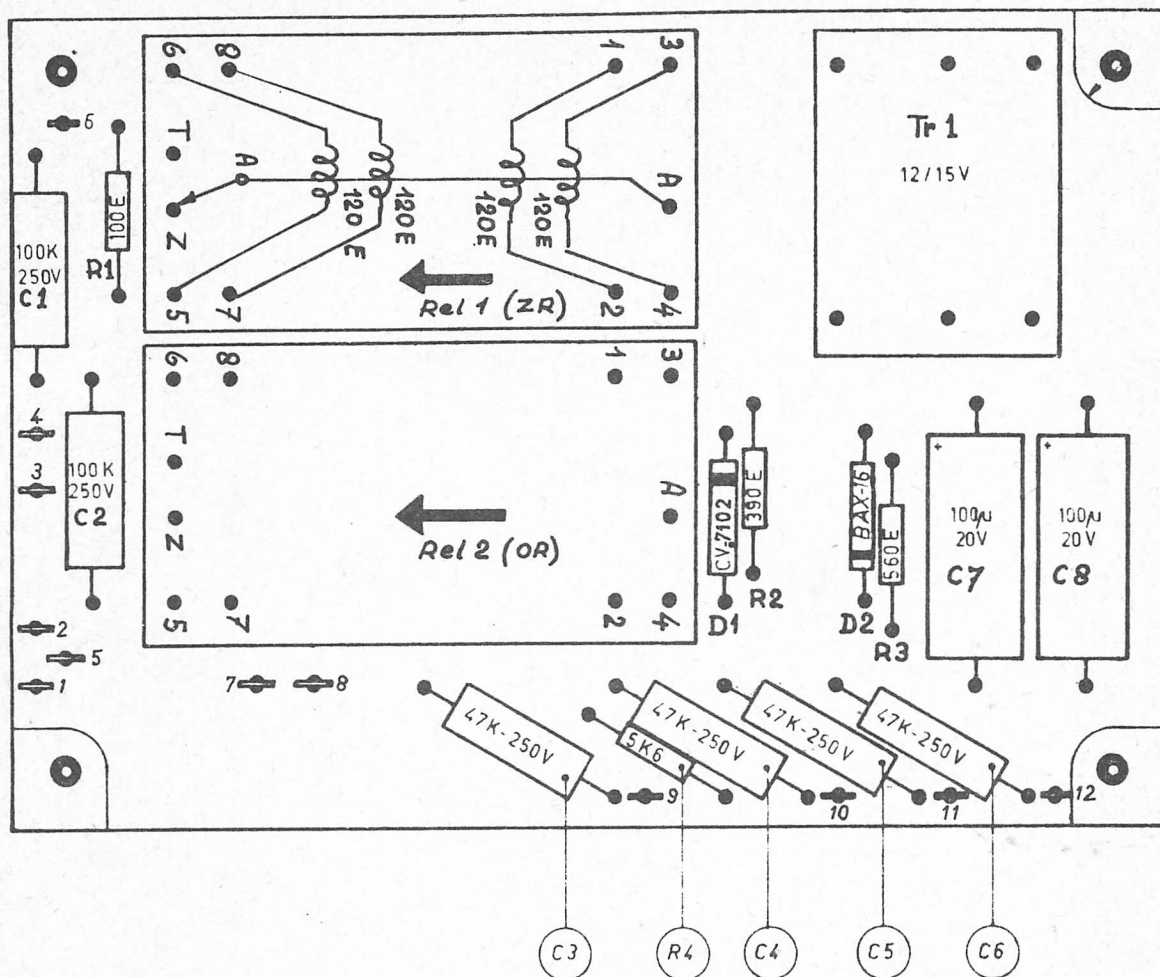




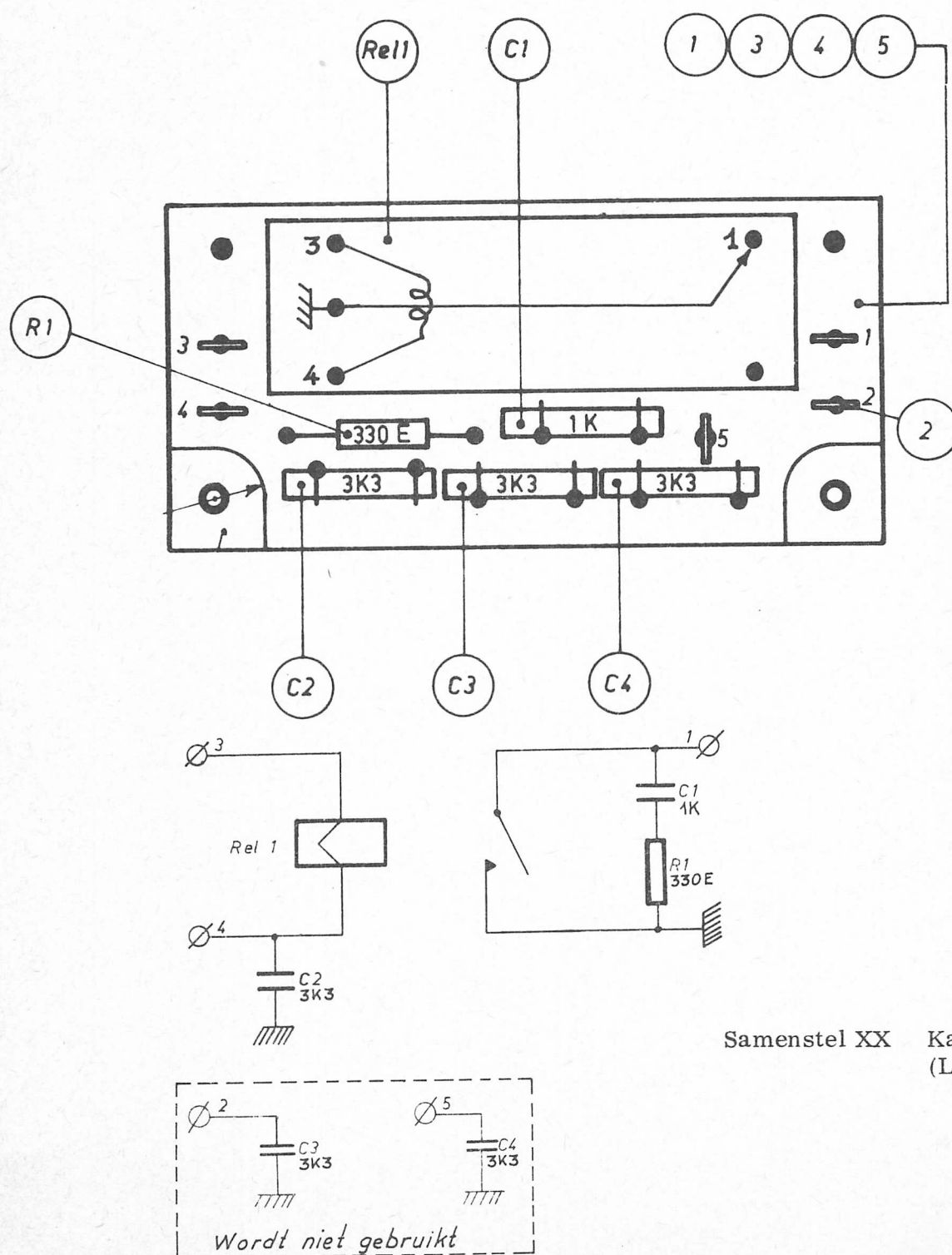
Samenstel 56/U Kaart U



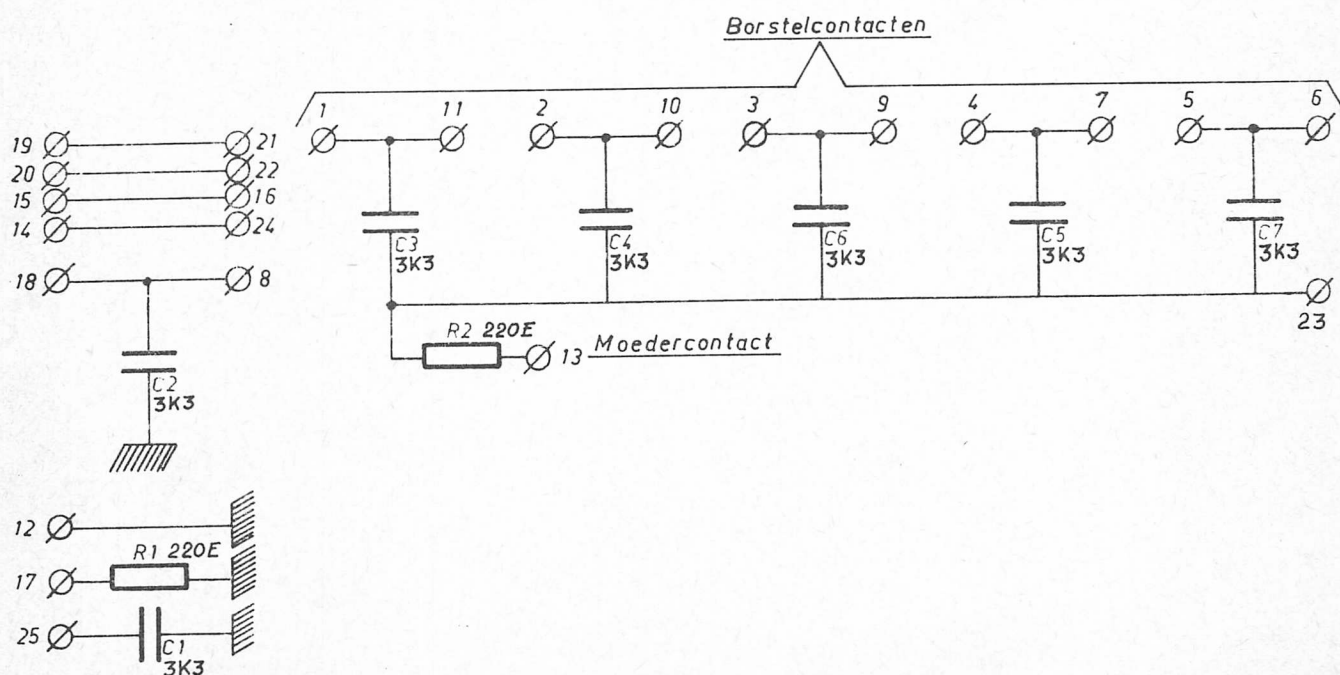
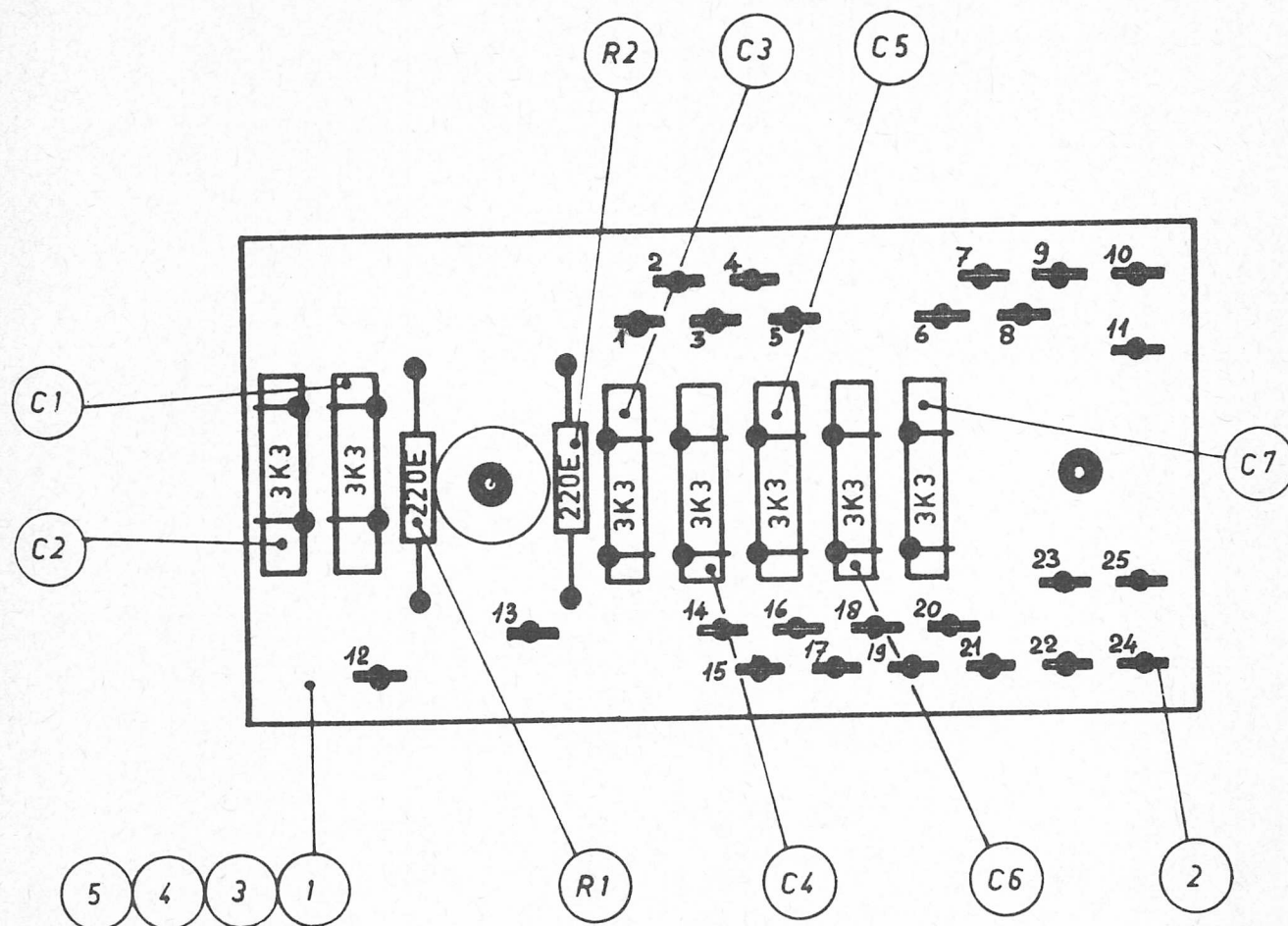
Samenstel 64/W Kaart W



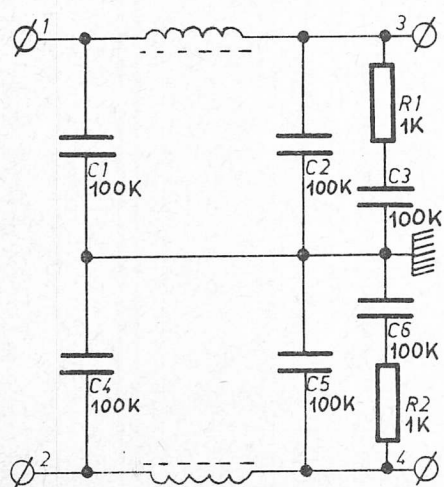
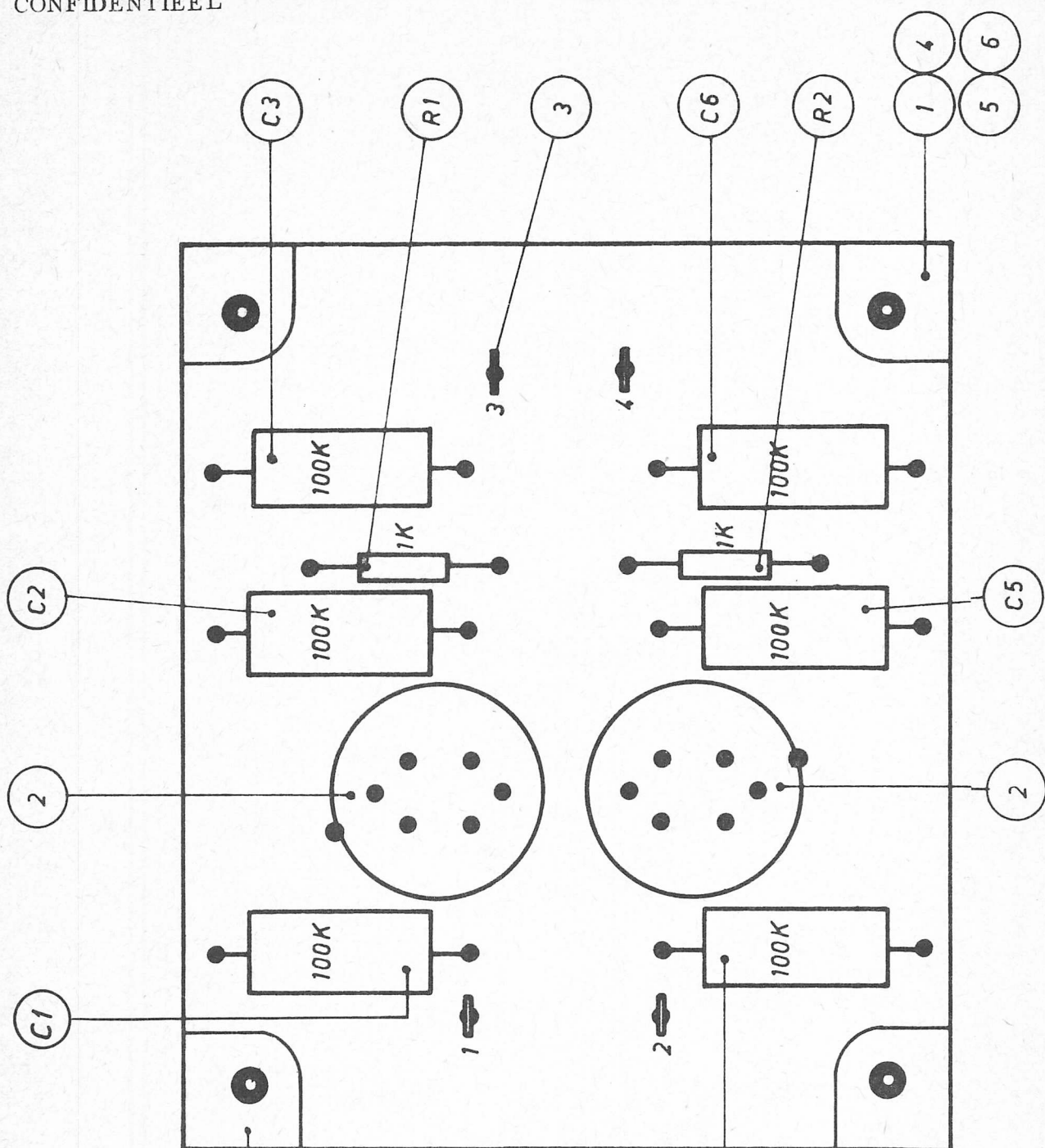
Samenstel X Kaart X
(Lijnfilter)



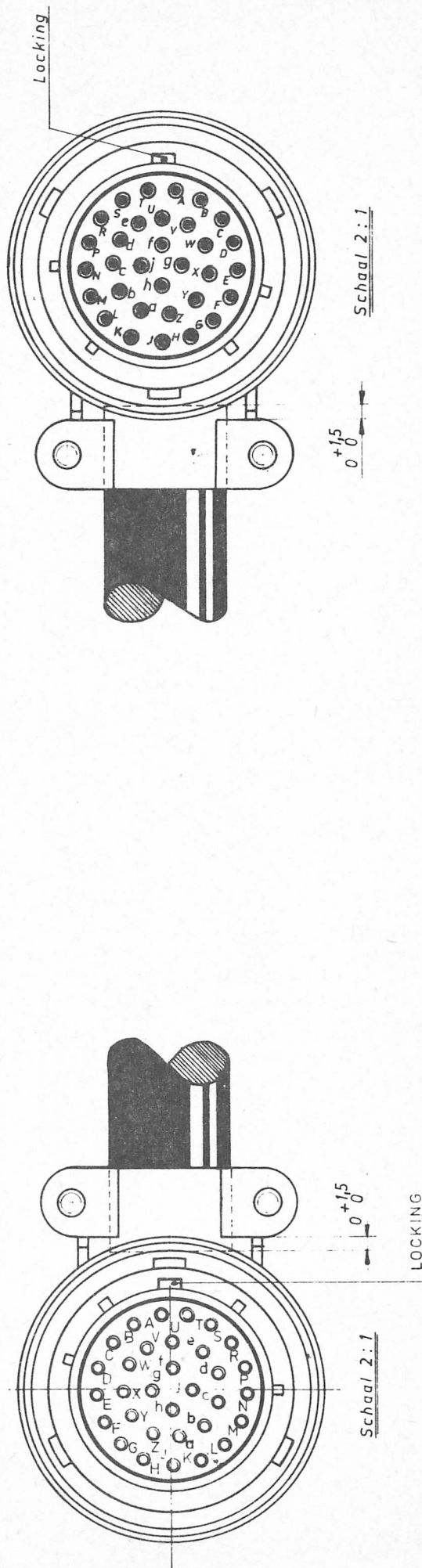
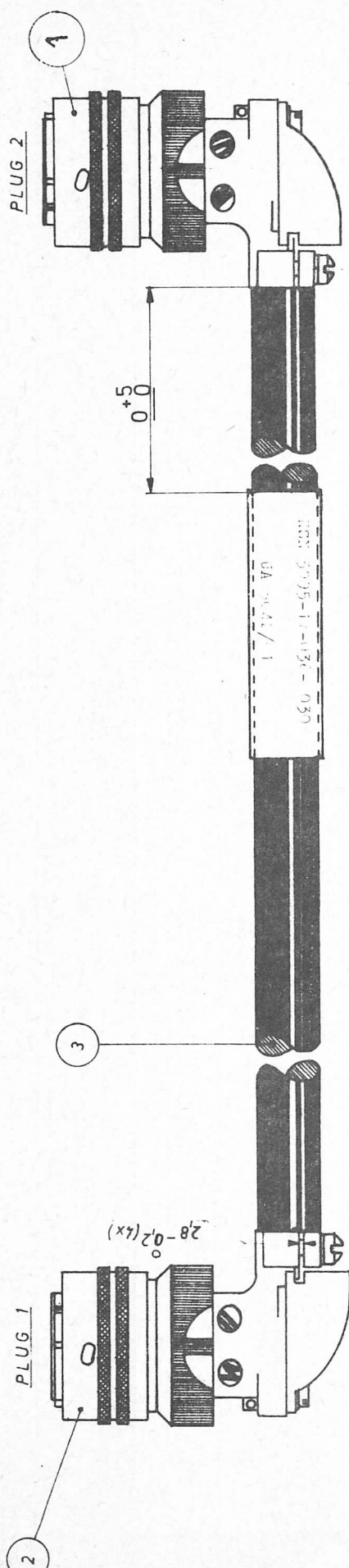
Samenstel XX Kaart XX
(Lijnfilter)



Samenstel Y Kaart Y (Bedieningseenheid)



Samenstel Z Kaart Z (Verreschrijve rfilter)



PLUG 1		PLUG 2	
A	Zw	A	Aarde
B	Zw	B	Bandlezer contact 2
C	Zw	C	Bandlezer contact 3
D	Zw	D	Witte knop
E	Zw	E	Bandlezer "AAN" puls
F	Zw	F	Gele knop
G	Zw	G	Bandlezer contact 1
H	Zw	H	Verreschrijver contact
I	Zw	I	Bandlezer contact 4
J	Zw	J	Rode knop
K	Zw	K	Verreschrijver besturing
L	Zw	L	Groene lamp
M	Zw	M	Blauwe lamp
N	Zw	N	Witte lamp
P	Zw	P	Gele lamp
R	Zw	R	Rode lamp
S	Zw	S	Aarde
T	Zw	T	Aan afscherming
U	Zw	U	
V	Zw	V	Bandlezer contact 5
W	Losse bus	W	Losse pen
X		X	
Y		Y	
Z	Losse bus	Z	Losse pen
a	Rd	a	Bandlezer bemonstering
b	Bl	b	Groene knop
c	Losse bus	c	Bandlezer besturing
d		d	Losse pen
e	Zw	e	
f	Zw	f	
g	Zw	g	
h	Rd	h	
i	Bl	i	
j		j	

ABK-zijde

VOT-zijde

Kern van afgeschermd snoeren

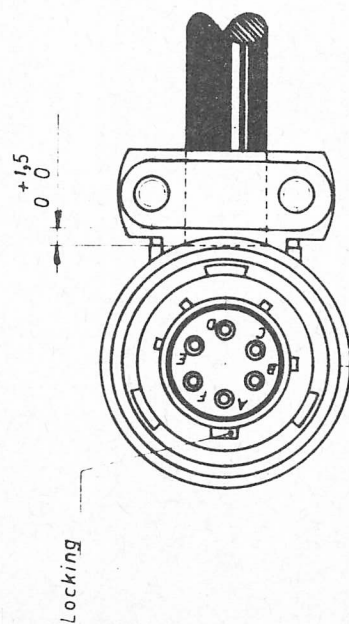
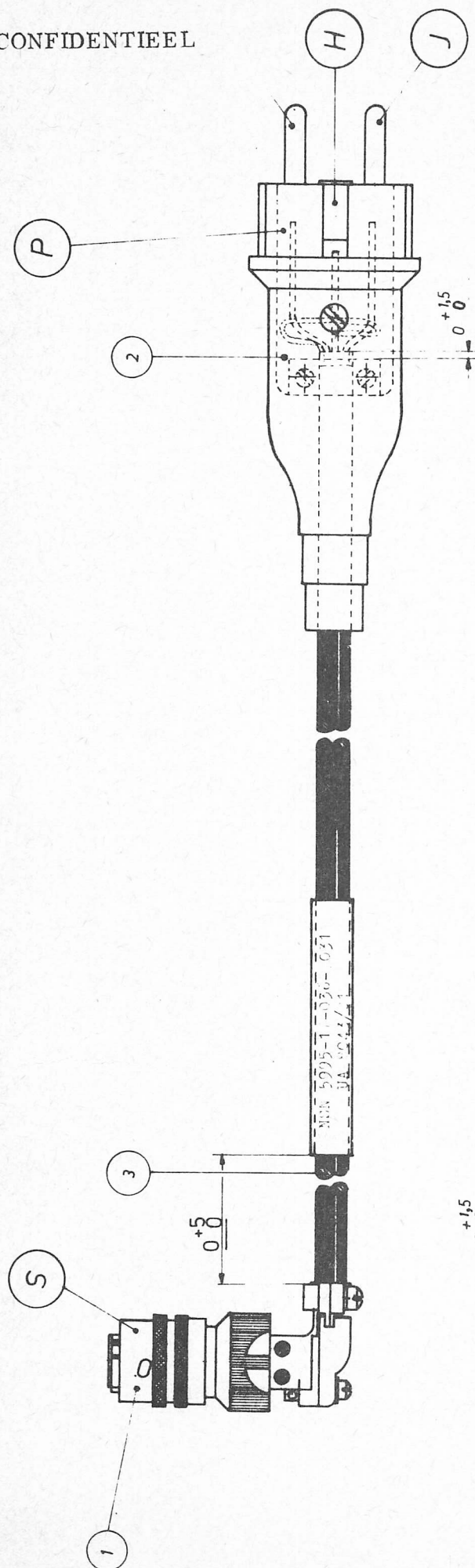
Papier einde contact

220V~

+12V

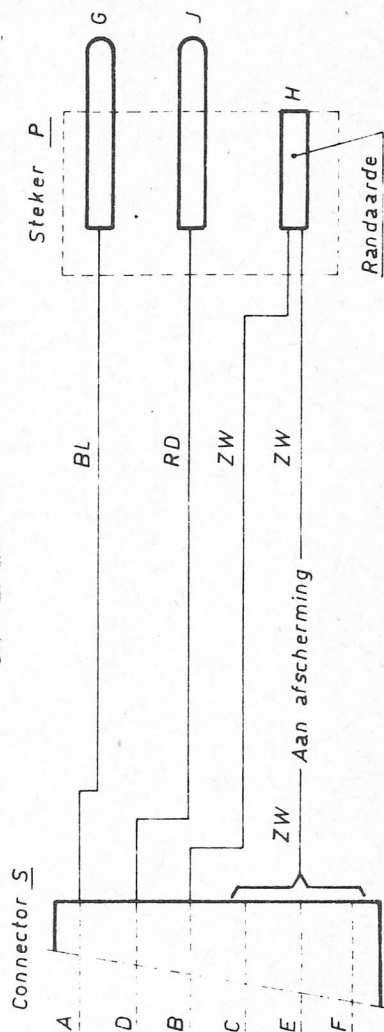
220V~

+60V



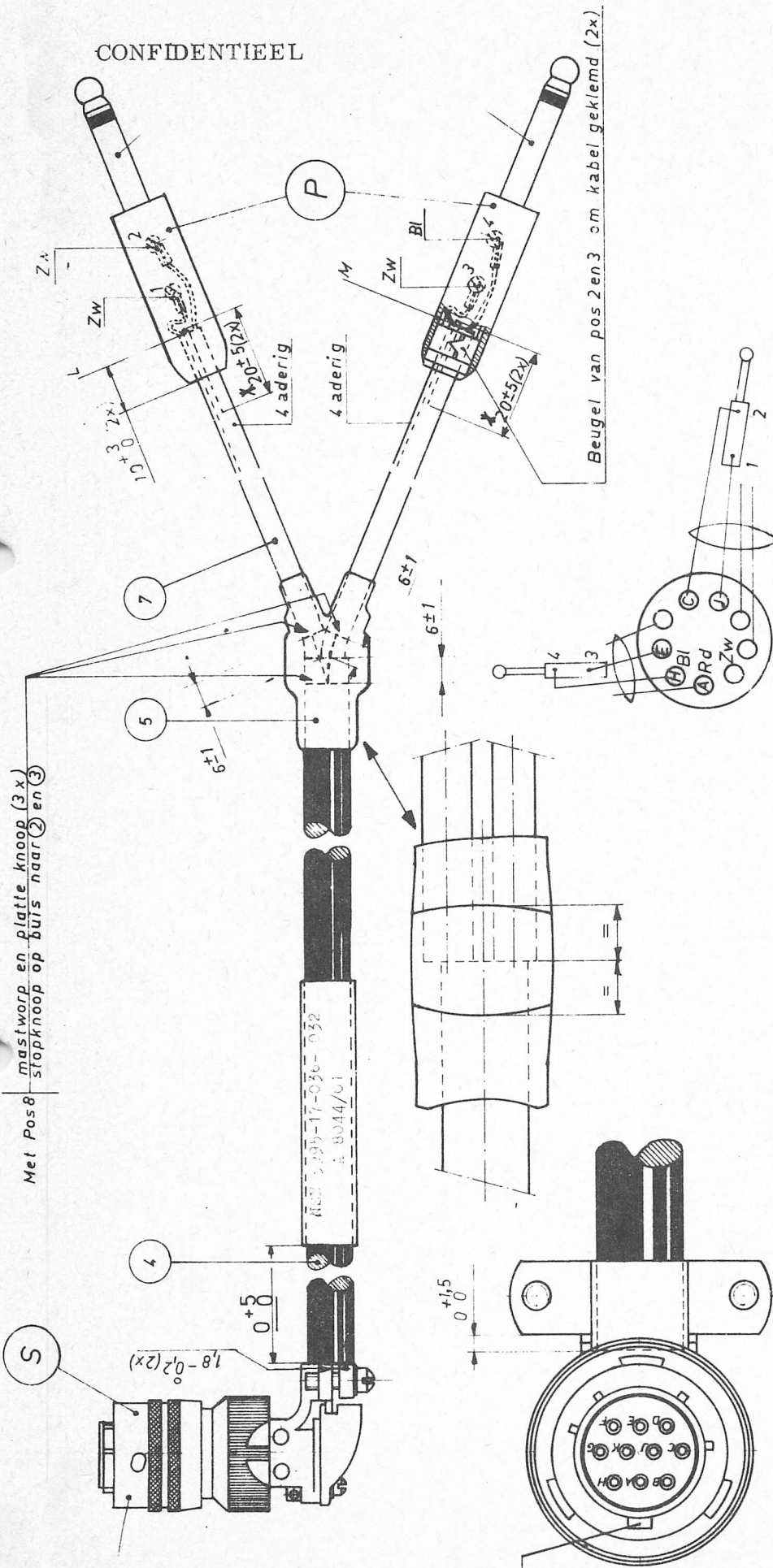
Schaal 2:1

Aansluitingen van Socapexplug naar Penkontaksteker



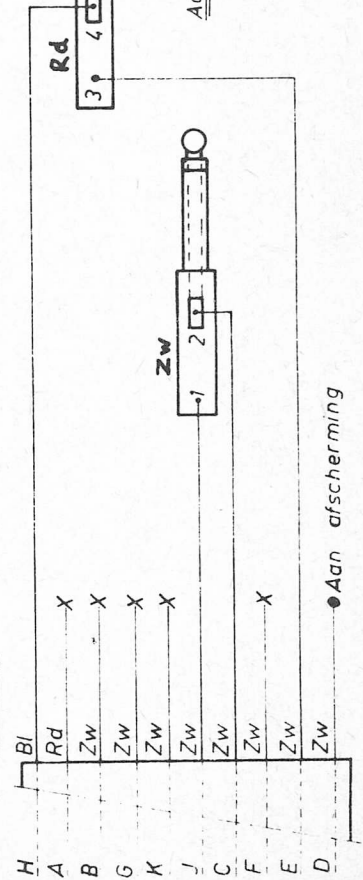
CONFIDENTIEEL

5-4



X Draden welke niet gebruikt worden, bij L (2x) en bij M (2x) omgebogen en in Pos 7 teruggevoerd.

Schaal 2:1



Aansluitingen van Socapexplug naar Penkontakstektors

CONFIDENTIEEL

Samenstel 44 Kabel VOT - toonfrequentenheid

Crypto Museum

Eindhoven, The Netherlands
www.cryptomuseum.com



CM 300287

Ecoler-X
4th & 5th Echelons

