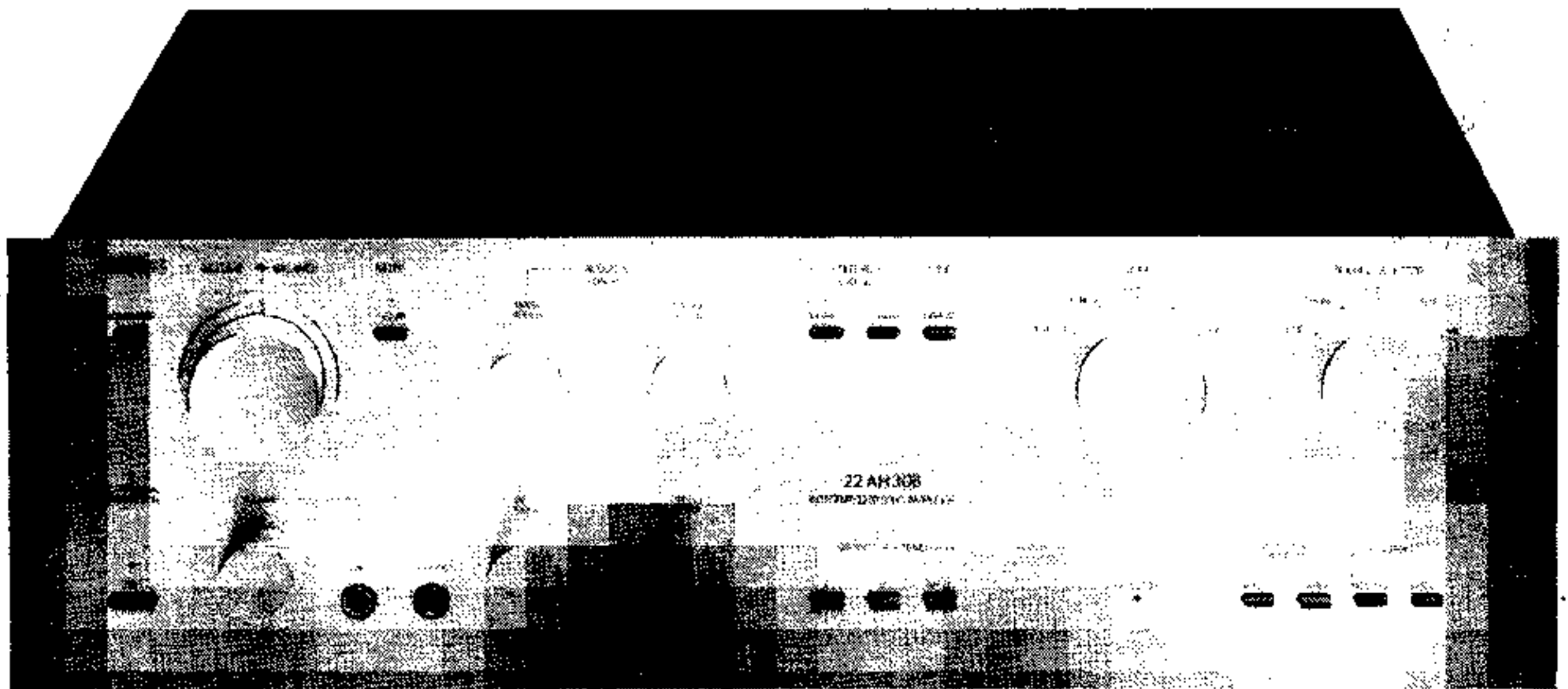
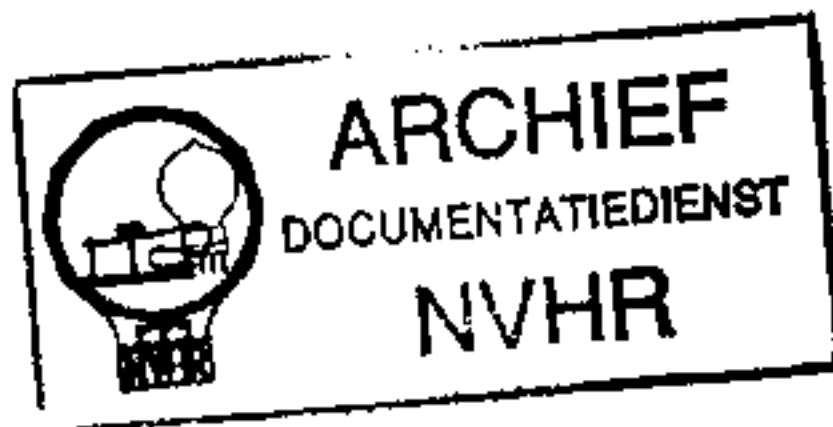


Service
Service
Service

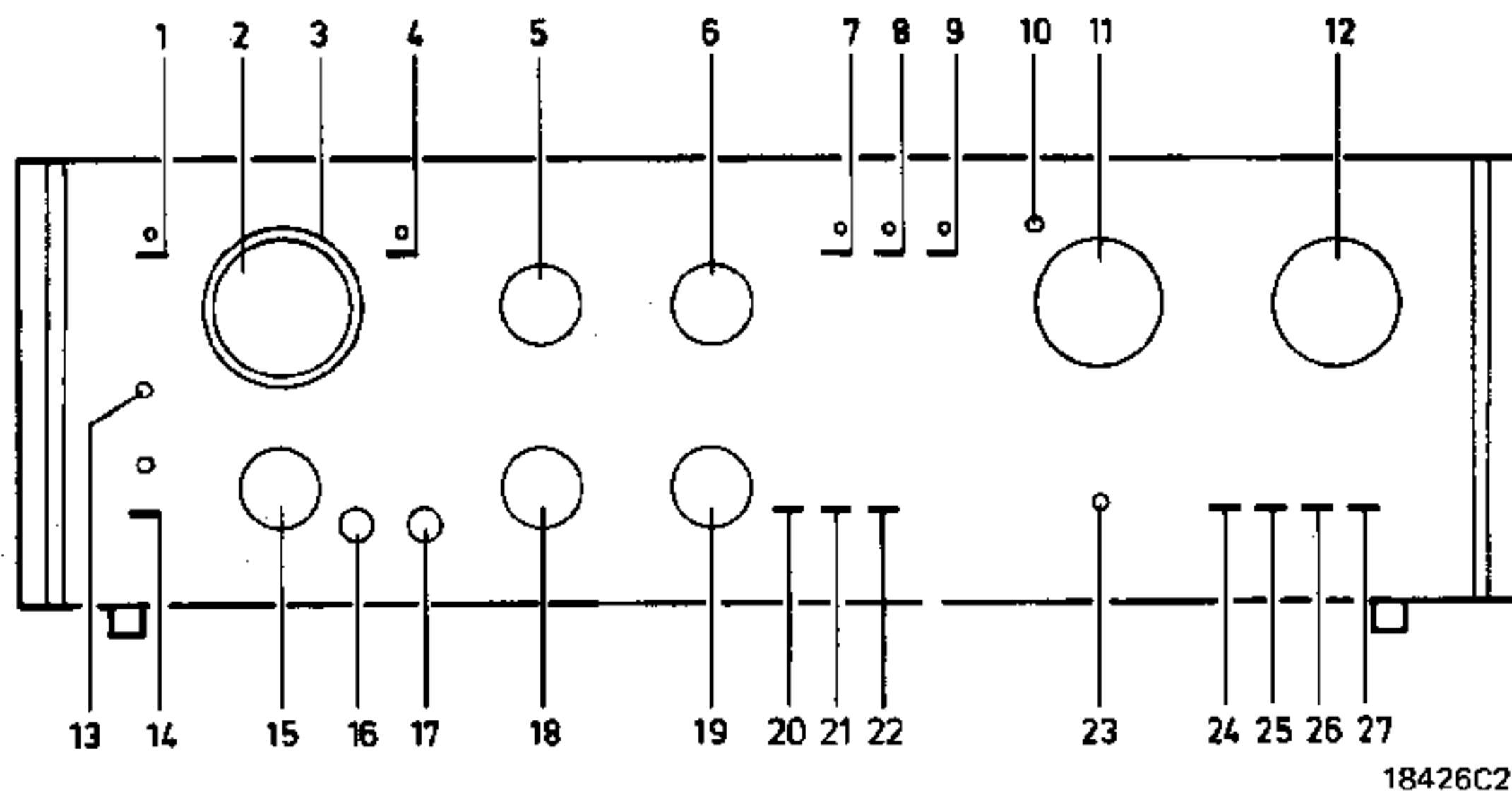
Service Manual

Met dank aan www.radiomuseum-hengelo.nl

Ned. Ver. v. Historie v/d Radio



Z0U10A



18426C2

(GB)

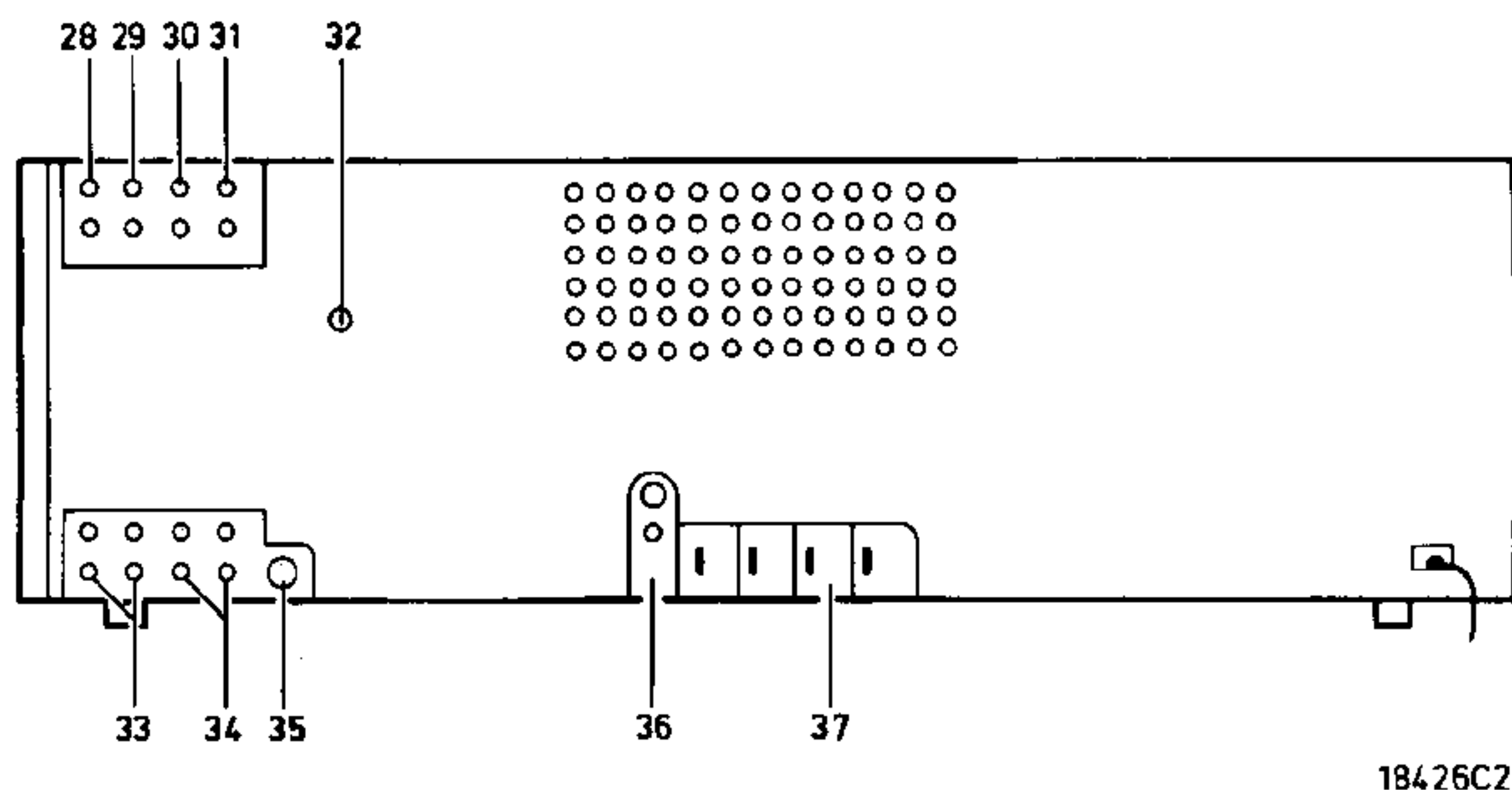
1 Loudness	SK-C
2 Volume	R1293,1294
3 Balance	R1291,1292
4 Mute	SK-D
5 Acoustic control 400 Hz	R1297,1298
6 Acoustic control 2.5 kHz	R1299,1300
7 100 Hz filter	SK-G
8 6 kHz filter	SK-H
9 Tone defeat switch	SK-K
10 Stereo indicator	D6324
11 Mode	SK-B
12 Source selector	SK-A
13 DC/thermal protection with LED indication	D6005
14 On/off	SK-M
15 Volume microphone	R1787
16 Microphone input	BU19
17 Headphones output	BU14
18 Bass control, 100 Hz	R1781,1782
19 Treble control, 7 kHz	R1783,1784
20 Loudspeaker system A	SK-N
21 Loudspeaker system B	SK-T
22 Loudspeaker system MFB	SK-U
23 Selector indicator	D6001
24 Tape 1, monitor	SK-V
25 Tape 2, monitor	SK-W
26 Tape dubbing pushbutton 1→2	SK-X
27 Tape dubbing pushbutton 2→1	SK-Y
28 Aux input	BU5
29 Tuner input	BU17
30 Phono 2 input	BU18
31 Phono 1 input	BU4
32 Earth screw	
33 Tape 1 input/output	BU6,7
34 Tape 2 input/output	BU8,9
35 Tape 2 DIN input/output	BU10
36 MFB output	BU11
37 Loudspeaker outputs	BU12 ... 15

(NL)

1 Loudness	SK-C
2 Volume	R1293,1294
3 Balans	R1291,1292
4 Mute	SK-D
5 Akoestiek regelaar 400 Hz	R1297,1298
6 Akoestiek regelaar 2,5 kHz	R1299,1300
7 100 Hz - filter	SK-G
8 6 kHz - filter	SK-H
9 Uitschakelaar toonregeling	SK-K
10 Stereo indikator	D6324
11 Mode	SK-B
12 Functiekeuze	SK-A
13 DC/termische beveiligingsindicator	D6005
14 Aan/uit	SK-M
15 Volume microfoon	R1787
16 Microfoon ingang	BU19
17 Hoofdtelefoon uitgang	BU14
18 Lage tonen regelaar, 100 Hz	R1781,1782
19 Hoge tonen regelaar, 7 kHz	R1783,1784
20 Luidsprekersysteem A	SK-N
21 Luidsprekersysteem B	SK-T
22 Luidsprekersysteem MFB	SK-U
23 Selector indicator	D6001
24 Tape 1/Monitor	SK-V
25 Tape 2/Monitor	SK-W
26 Tape-kopieerschakelaar 1→2	SK-X
27 Tape-kopieerschakelaar 2→1	SK-Y
28 Aux-ingang	BU5
29 Tuner-ingang	BU17
30 Phono 2 ingang	BU18
31 Phono 1 ingang	BU4
32 Aardschroef	
33 Tape 1 in/uitgang	BU6,7
34 Tape 2 in/uitgang	BU8,9
35 Tape 2 DIN-in/uitgang	BU10
36 MFB uitgang	BU11
37 LS uitgangen	BU12 ... 15

(F)

1 Contour (filtre physiologique)	
2 Volume	
3 Balance	
4 Accord silencieux	
5 Commande acoustique 400 Hz	
6 Commande acoustique 2,5 kHz	
7 Filtre 100 Hz	
8 Filtre 6 kHz	
9 Disjoncteur commandes de tonalité	
10 Indicateur stéréo	
11 Mode de fonctionnement	
12 Sélecteur de fonctions	
13 Indicateur courant continu/disjonction thermique	
14 Marche/Arrêt	
15 Volume-microphone	
16 Entrée microphone	
17 Entrée casque	
18 Réglage de tonalité "grave", 100 Hz	
19 Réglage de tonalité "aigu", 7 kHz	
20 Système H-P "A"	
21 Système H-P "B"	
22 Système H-P "MFB"	
23 Indicateur du sélecteur de fonctions	
24 Magnétophone 1/Contrôle auditif à l'enregistrement	
25 Magnétophone 2/Contrôle auditif à l'enregistrement	
26 Commutateur de mixage magnétophone 1→2	
27 Commutateur de mixage magnétophone 2→1	
28 Entrée auxiliaire	
29 Entrée tuner	
30 Entrée phonocapteur 2	
31 Entrée phonocapteur 1	
32 Vis de masse	
33 Entrée/sortie magnétophone 1	
34 Entrée/sortie magnétophone 2	
35 Entrée/sortie magnétophone 2, norme DIN	
36 Sortie MFB	
37 Sorties H-P	



D

SK-C	1	Gehörnrichtiger Lautstärkeregler
R1293,1294	2	Lautstärkeregler
R1291,1292	3	Balance-Regler
SK-D	4	Stummabstimmung ("mute")
R1297,1298	5	Akustikregler 400 Hz
R1299,1300	6	Akustikregler 2,5 kHz
SK-G	7	100 Hz-Filter
SK-H	8	6 kHz-Filter
SK-K	9	Ausschalter Tonblende
D6324	10	Stereo-Indikator
SK-B	11	Betriebsartenschalter
SK-A	12	Funktionswahl
D6005	13	Leuchtdiodenanzeige für Gleichstrom- und Wärmeschutz
SK-M	14	Ein/Aus-Schalter
R1787	15	Mikrophonlautstärke
BU19	16	Mikrophoneingang
BU14	17	Kopfhörerausgang
R1781,1782	18	Tiefenregler, 100 Hz
R1783,1784	19	Höhenregler, 7 kHz
SK-N	20	Lautsprechersystem A
SK-T	21	Lautsprechersystem B
SK-U	22	Lautsprechersystem MFB
D6001	23	Betriebsartenanzeiger
SK-V	24	Band 1/Monitor
SK-W	25	Band 2/Monitor
SK-X	26	Bandüberspielschalter 1→2
SK-Y	27	Bandüberspielschalter 2→1
BU5	28	Auxiliary-Eingang
BU17	29	Tuner-Eingang
BU18	30	Eingang für Phono 2
BU4	31	Eingang für Phono 1
BU6,7	32	Erdungsschraube
BU8,9	33	Ein/Ausgang für Band 1
BU10	34	Ein/Ausgang für Band 2
BU11	35	DIN-Ein/Ausgang für Band 2
BU12 ... 15	36	MFB-Ausgang
	37	LS-Ausgänge

I

SK-C	1	Loudness
R1293,1294	2	Volume
R1291,1292	3	Bilanciamento
SK-D	4	Mute
R1297,1298	5	Controllo acustico 400 Hz
R1299,1300	6	Controllo acustico 2.5 kHz
SK-G	7	Filtro 100 Hz
SK-H	8	Filtro 6 kHz
SK-K	9	Commutatore tono defeat
D6324	10	Indicatore stereo
SK-B	11	Mode
SK-A	12	Selettore Source
D6005	13	Protezione termica DC - con indicazione tramite LED
SK-M	14	On/off
R1787	15	Volume microfono
BU19	16	Ingresso microfono
BU14	17	Uscita per cuffia
R1781,1782	18	Controllo bassi, 100 Hz
R1783,1784	19	Controllo acuti, 7 kHz
SK-N	20	Sistema altoparlanti "A"
SK-T	21	Sistema altoparlanti "B"
SK-U	22	Uscita MFB
D6001	23	Indicatore selezione
SK-V	24	Monitor, tape 1
SK-W	25	Monitor, tape 2
SK-X	26	Tasto per copiatore nastro 1→2
SK-Y	27	Tasto per copiatura nastro 2→1
BU5	28	Ingresso ausiliario
BU17	29	Ingresso tuner
BU18	30	Ingresso phono 2
BU4	31	Ingresso phono 1
BU6,7	32	Vite per massa
BU8,9	33	Tape 1 input/output
BU10	34	Tape 2 input/output
BU11	35	Tape 2 DIN input/output
BU12 ... 15	36	MFB output
	37	Uscite altoparlanti

GB

Power supply voltage	: -/00 220 V~ AC -50 Hz -/15 240 V~ AC -50 Hz -/28 220 V~ AC/ 127 V~ AC -50 Hz
Power consumption	: 44 - 310 W
Dimensions	: 458x350x150 mm
Inputs (1 kHz):	
Phono 1	: 2.5 mV/47 k Ω
Phono 2	2.5 mV/47 k Ω
Tape 1	150 mV/100 k Ω
Tape 2	150 mV/100 k Ω
Aux 1 high	150 mV/50 k Ω
Aux 2 low	300 mV/100 k Ω
Microphone	1 mV/2 k Ω
Tuner	150 mV/100 k Ω
Outputs (1 kHz):	
Tape 1	: 150 mV
Tape 2	150 mV
Tape 2 DIN	13 mV/47 k Ω
2x2 Loudspeakers	2x80 W/8 Ω , D $\leq$ 0,08%
Headphones	50 mW/100 Ω
MFB	3 V/300 Ω

NL

Voedingsspanning	
Opgenomen vermogen	
Afmetingen	
Ingangen (1 kHz):	
Phono 1	
Phono 2	
Tape 1	
Tape 2	
Aux 1 "High"	
Aux 2 "Low"	
Microfoon	
Tuner	
Uitgangen (1 kHz):	
Tape 1	
Tape 2	
Tape 2 DIN	
Luidsprekers (2x2)	
Hoofdtelefoon	
MFB	

F

Tension d'alimentation	
Puissance absorbée	
Dimensions	
Entrées (1 kHz):	
Phonocapteur 1	
Phonocapteur 2	
Magnétophone 1	
Magnétophone 2	
Aux. 1 "Haut"	
Aux. 2 "Bas"	
Microphone	
Tuner	
Sorties (1 kHz):	
Magnétophone 1	
Magnétophone 2	
Magnétophone 2 prise DIN	
Enceintes (2x2)	
Casque	
MFB	

D

Versorgungsspannung	: -/00 220 V~ AC -50 Hz -/15 240 V~ AC -50 Hz -/28 220 V~ AC/ 127 V~ AC -50 Hz
Leistungsaufnahme	: 44 - 310 W
Abmessungen	: 458x350x150 mm
Eingänge (1 kHz):	
Phono 1	: 2,5 mV/47 k Ω
Phono 2	2,5 mV/47 k Ω
Band 1	150 mV/100 k Ω
Band 2	150 mV/100 k Ω
Auxiliary "high"	150 mV/50 k Ω
Auxiliary "low"	300 mV/100 k Ω
Mikrophon	1 mV/2 k Ω
Tuner	150 mV/100 k Ω
Ausgänge (1 kHz):	
Band 1	: 150 mV
Band 2	150 mV
Band 2 (DIN-Buchse)	13 mV/47 k Ω
Lautsprecher (2x2)	2x80 W/8 Ω , Verzerrung $\leq$ 0,08%
Kopfhörer	50 mW/100 Ω
MFB-Lautsprecher	3 V/300 Ω

I

Tensione alimentazione	: -/00 220 V~ AC-50 Hz -/15 240 V~ AC-50 Hz -/28 220 V~ AC/ 127 V~ AC-50 Hz
Potenza assorbita	: 44 - 310 W
Dimensioni	: 458x350x150 mm
Ingressi (1 kHz):	
Phono 1	: 2.5 mV/47 k Ω
Phono 2	2.5 mV/47 k Ω
Registratore 1	150 mV/100 k Ω
Registratore 2	150 mV/100 k Ω
Ausiliario 1	150 mV/50 k Ω
Ausiliario 2	300 mV/100 k Ω
Microfono	1 mV/2 k Ω
Sintonizzatore	150 mV/100 k Ω
Uscite (1 kHz):	
Registratore 1	: 150 mV
Registratore 2	150 mV
Registratore 2 DIN	13 mV/47 k Ω
2x2 casse acustiche	2x80 W/8 Ω , D $\leq$ 0,08%
Cuffia	50 mW/100 Ω
MFB	3 V/300 Ω

GB

For more detailed technical specifications please consult commercial documentation.

F

Pour l'obtention de données techniques plus détaillées veuillez consulter la documentation commerciale.

NL

Voor meer uitgebreide technische specificaties gelieve de commerciële documentatie te raadplegen.

D

Für eine mehr detaillierte technische Spezifikation verweisen wir auf die kommerzielle Dokumentation.

I

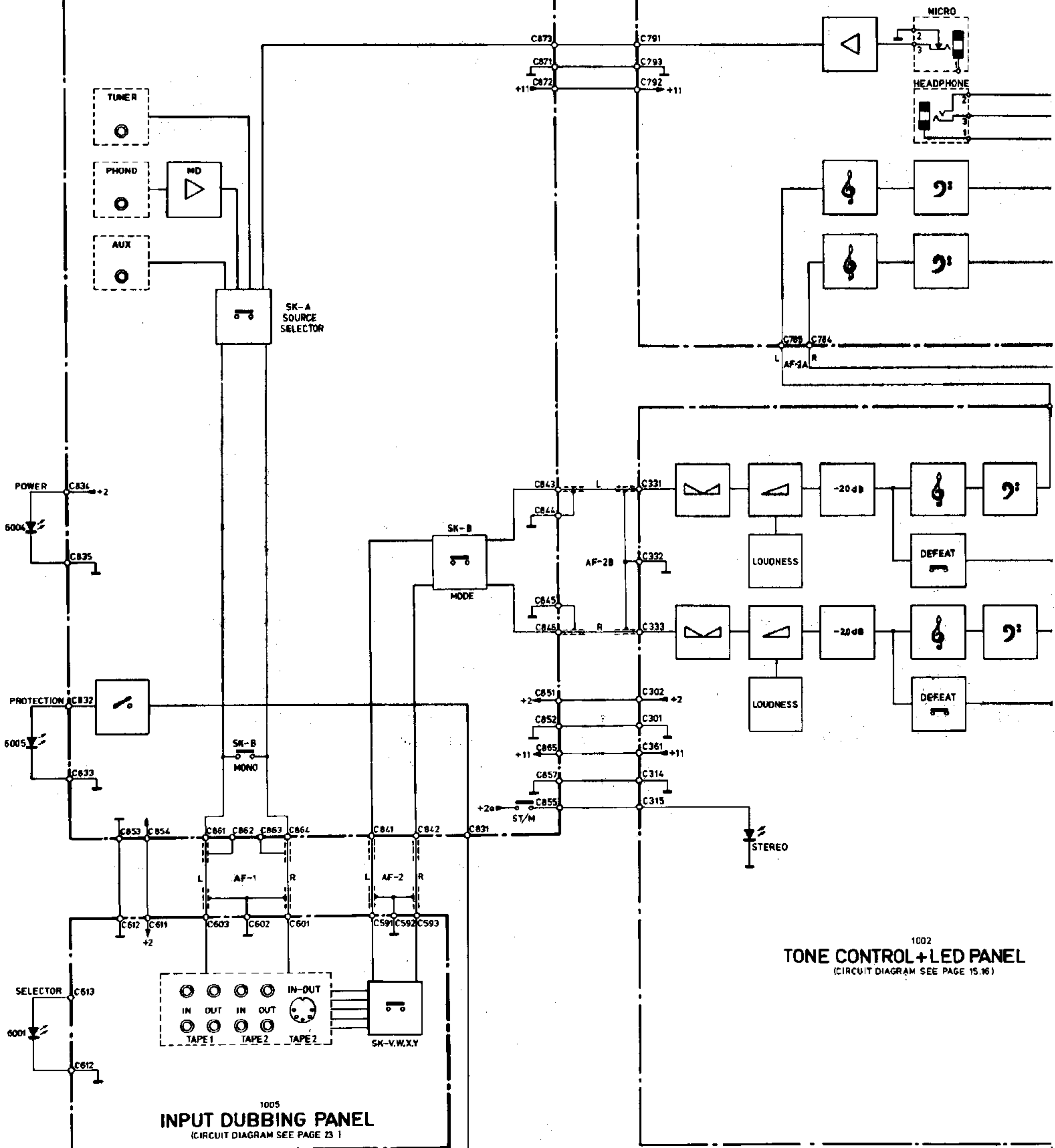
In modo da ottenere dati tecnici più particolareggiati, vi preghiamo di riferirvi alla documentazione commerciale.

1008 SELECTOR PANEL

(CIRCUIT DIAGRAM SEE PAGE 19,20)

1007 TONE MIC CONTROL PANEL

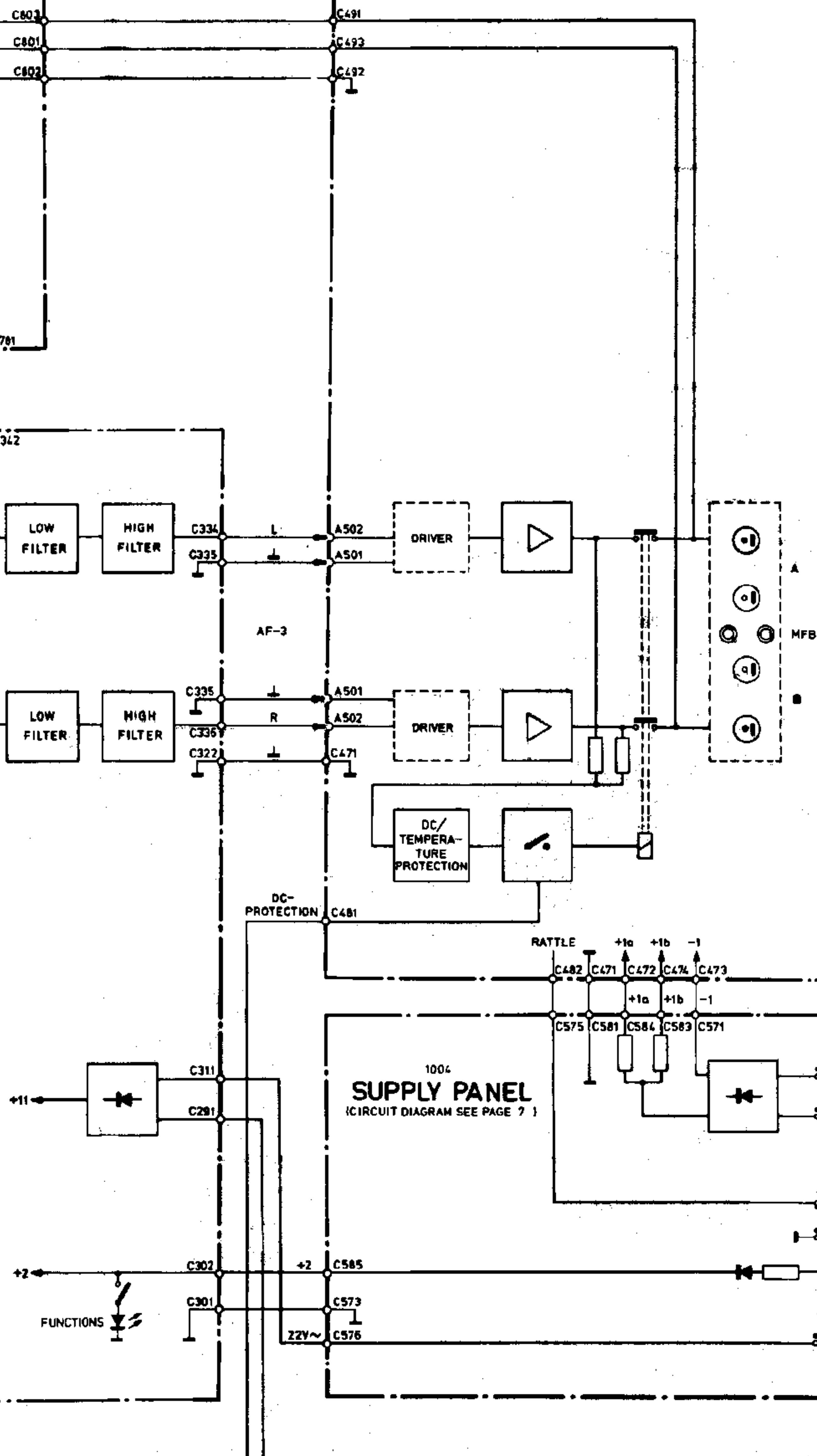
(CIRCUIT DIAGRAM SEE PAGE 14)



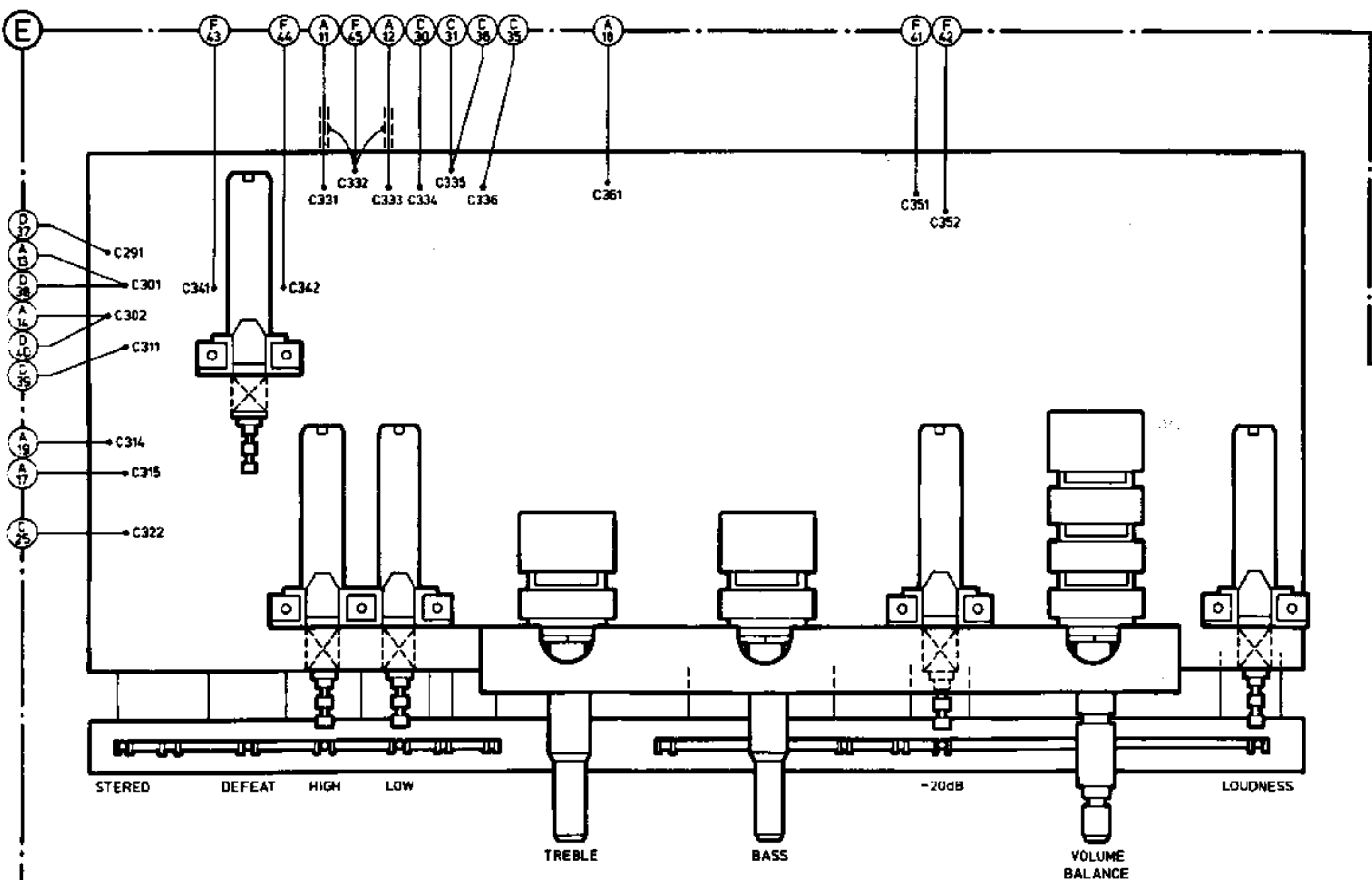
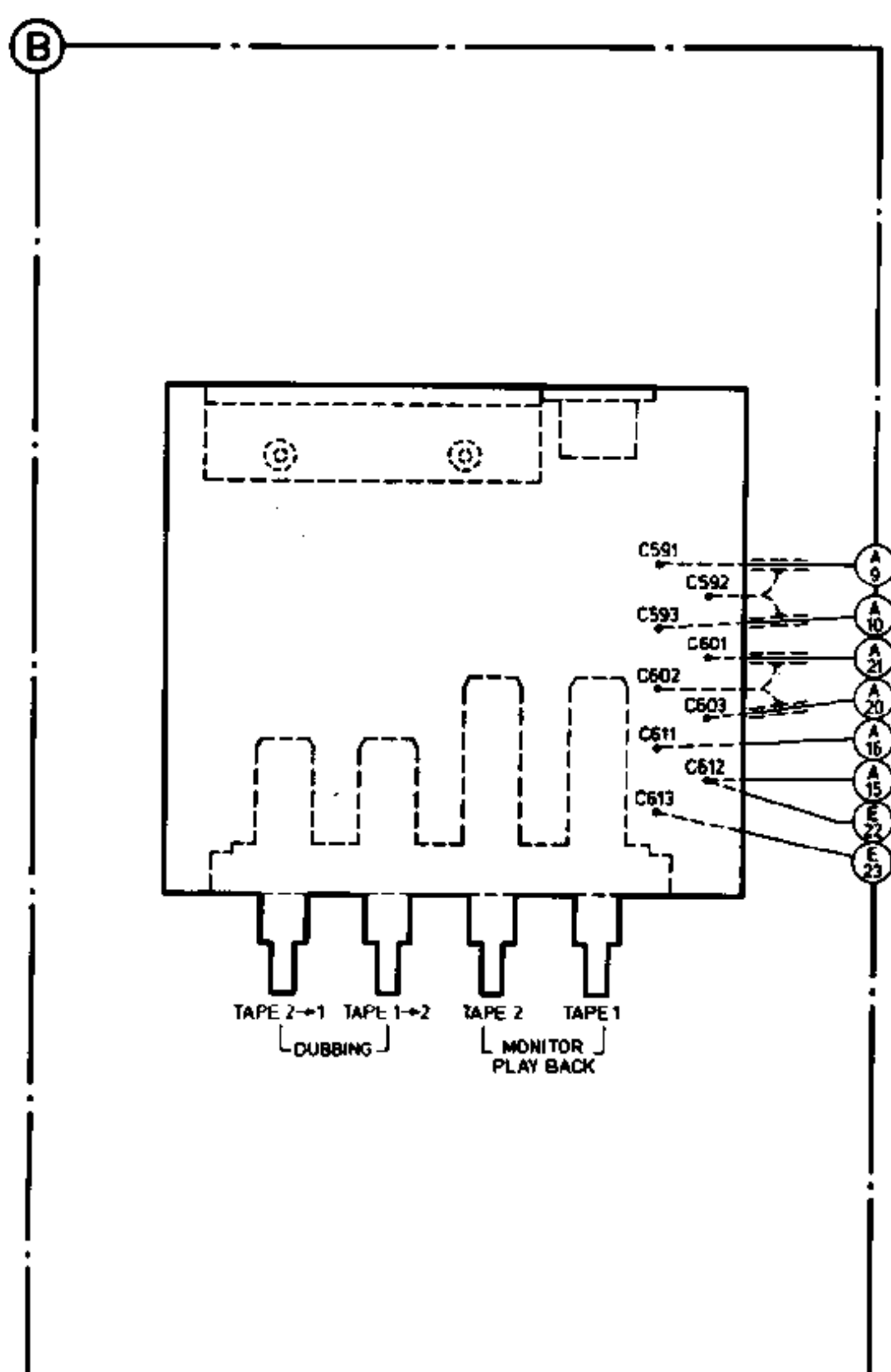
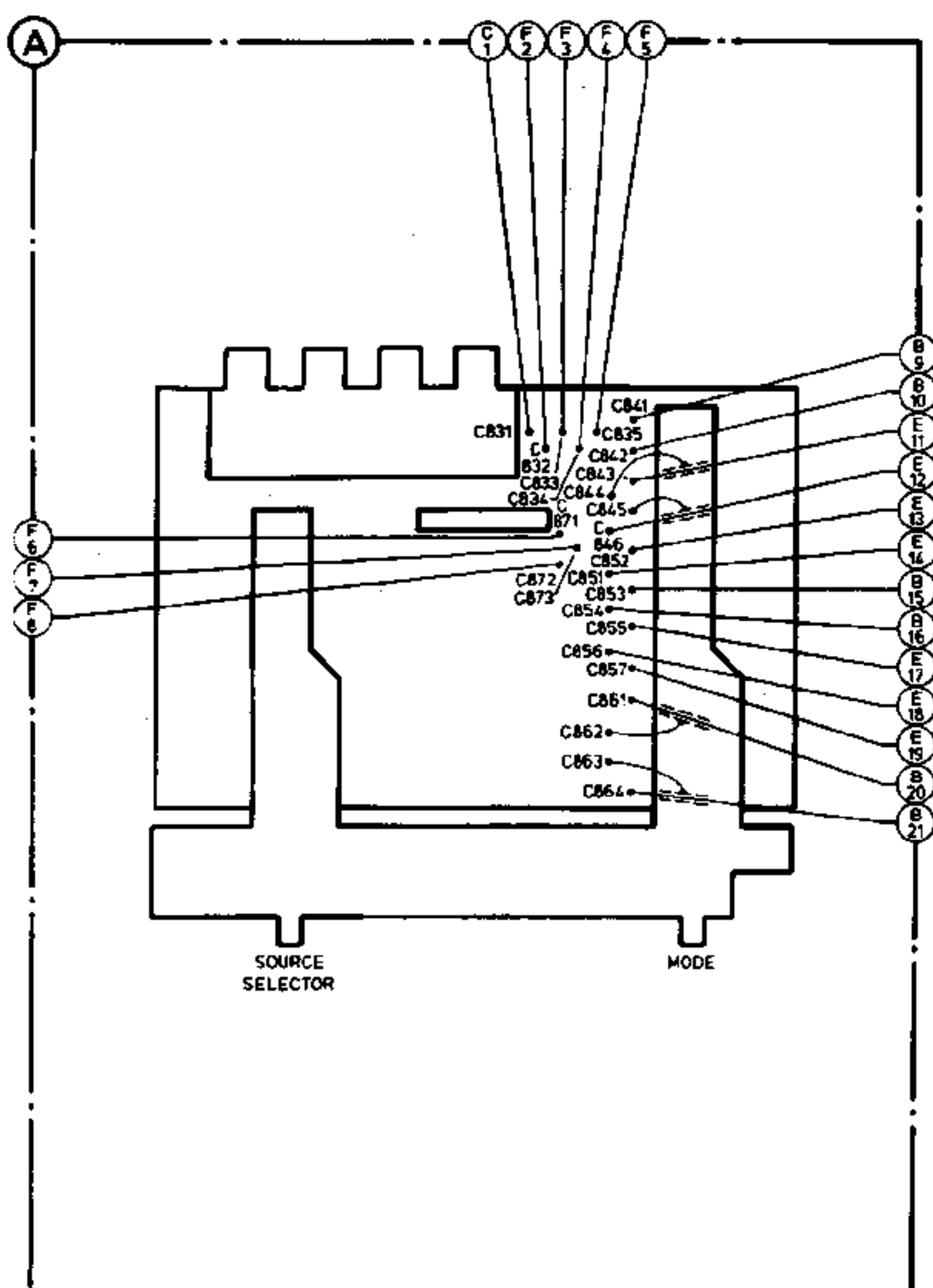
NEL

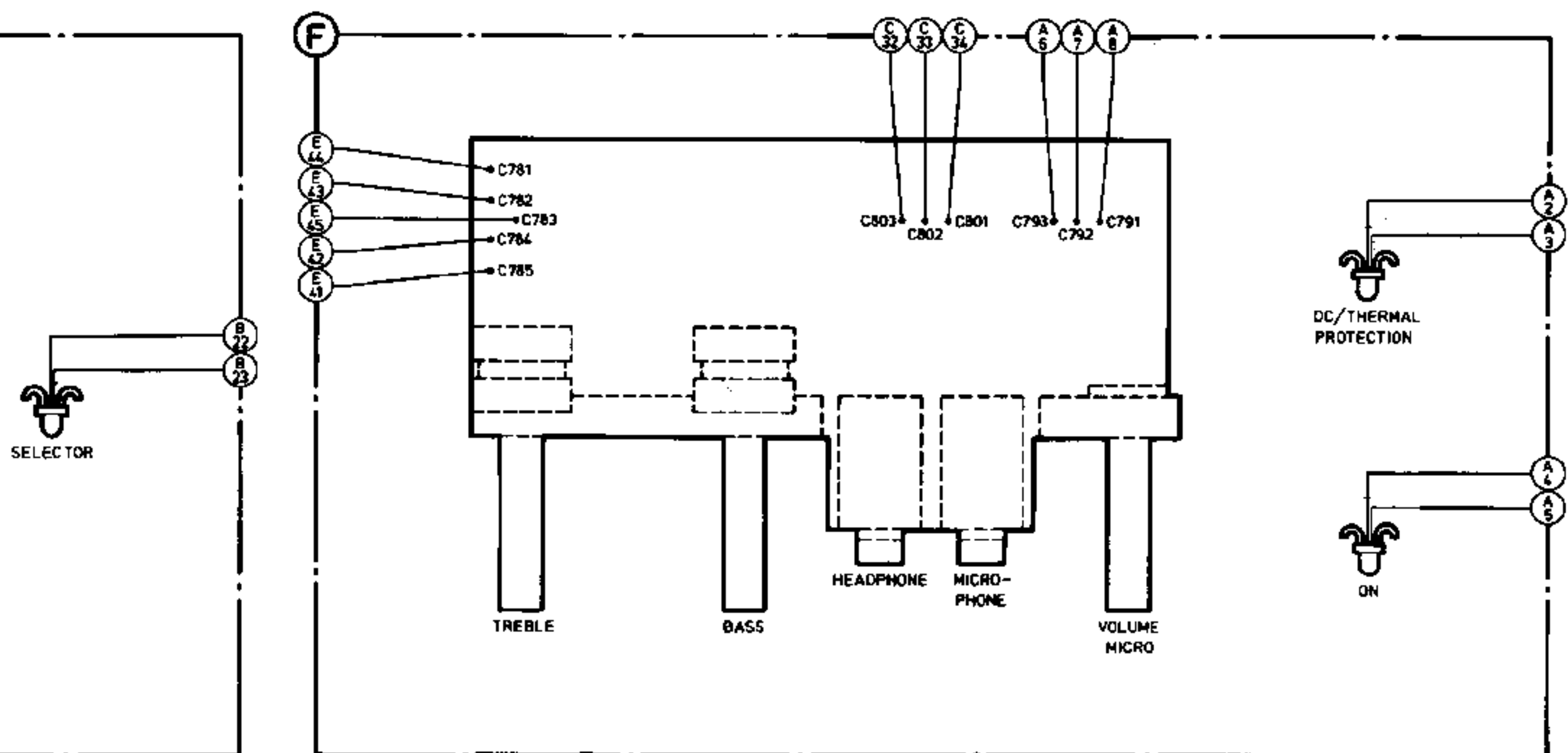
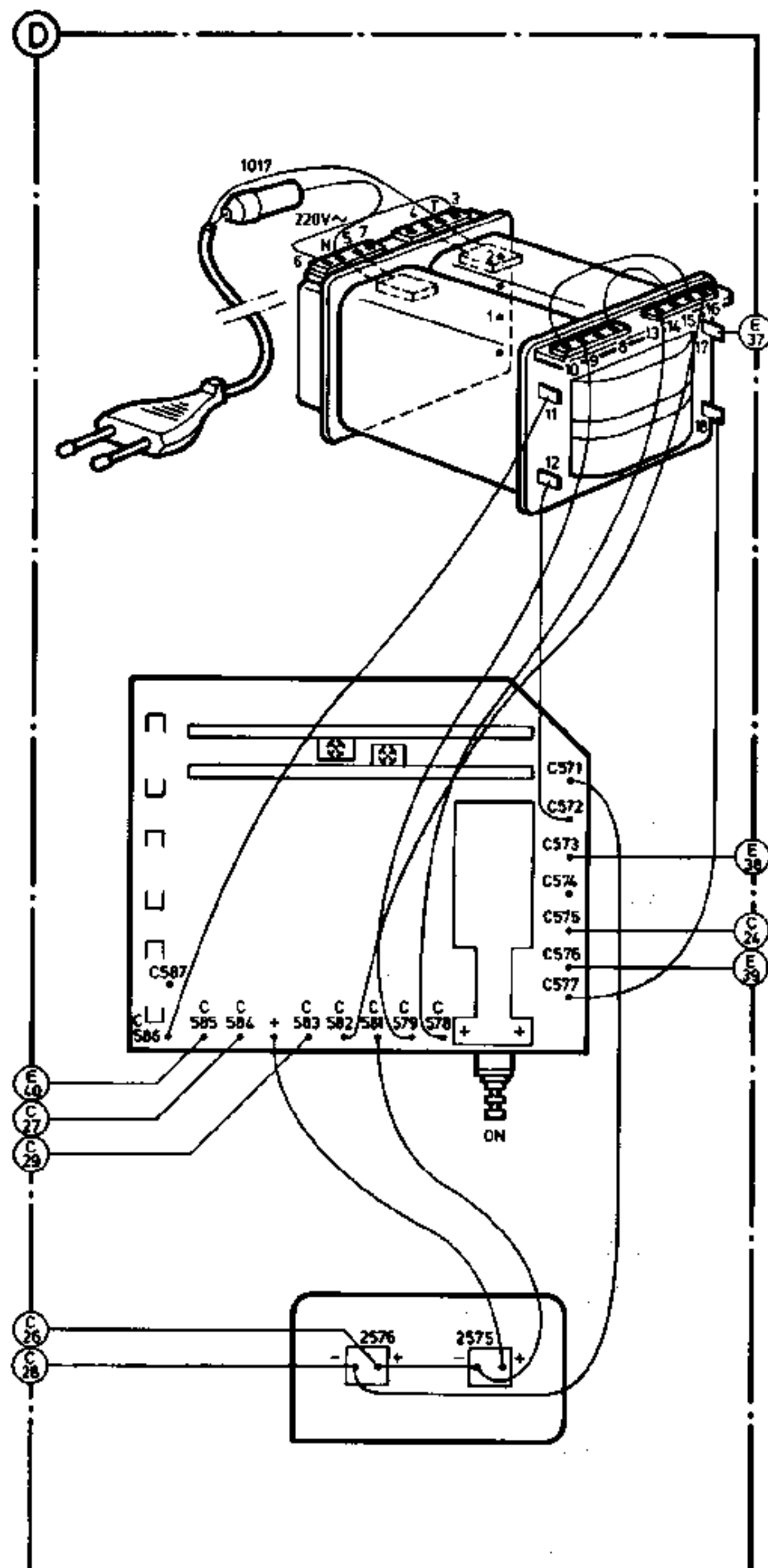
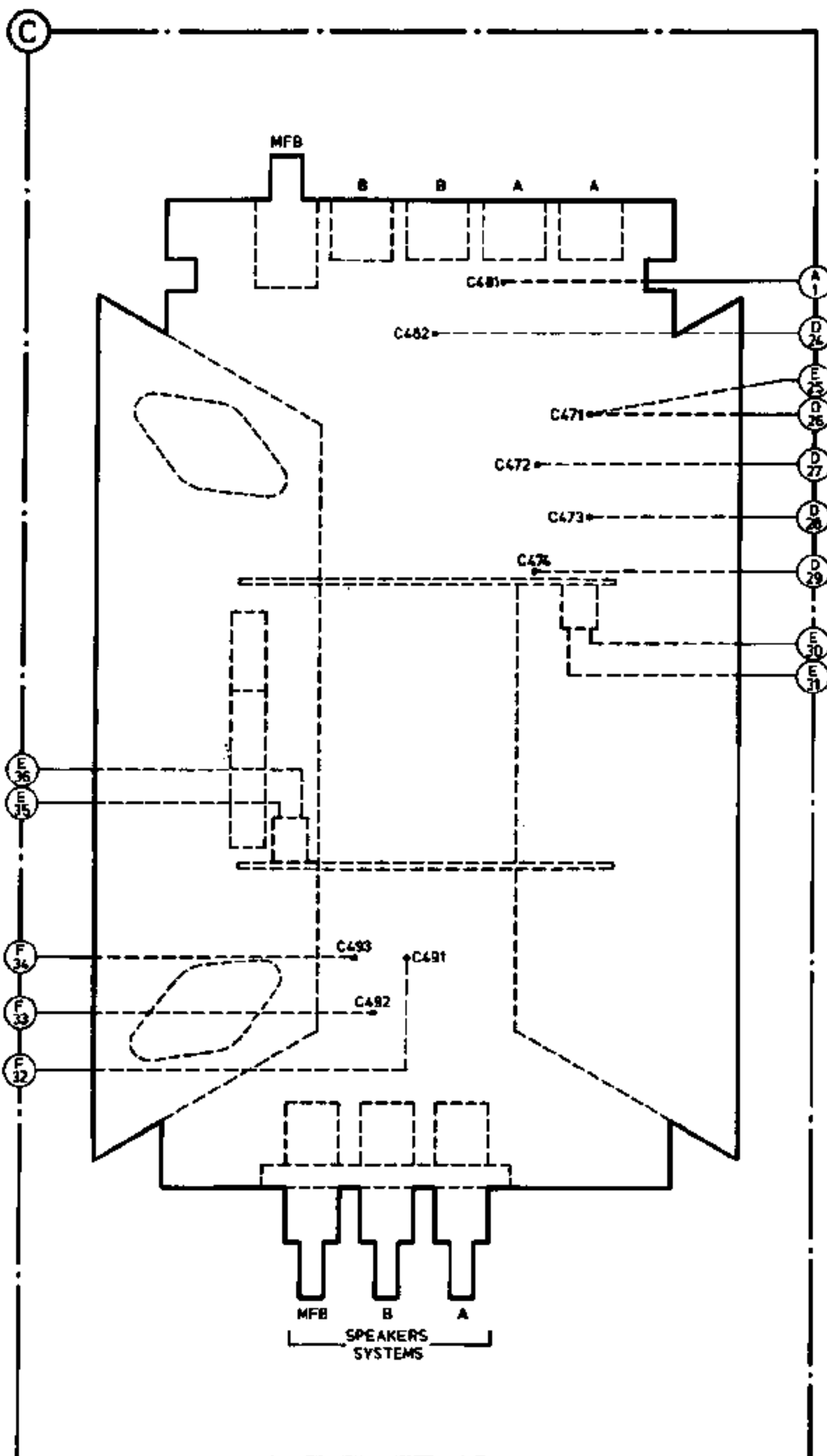
EL

1003
POWER UNIT
(CIRCUIT DIAGRAM SEE PAGE 8)



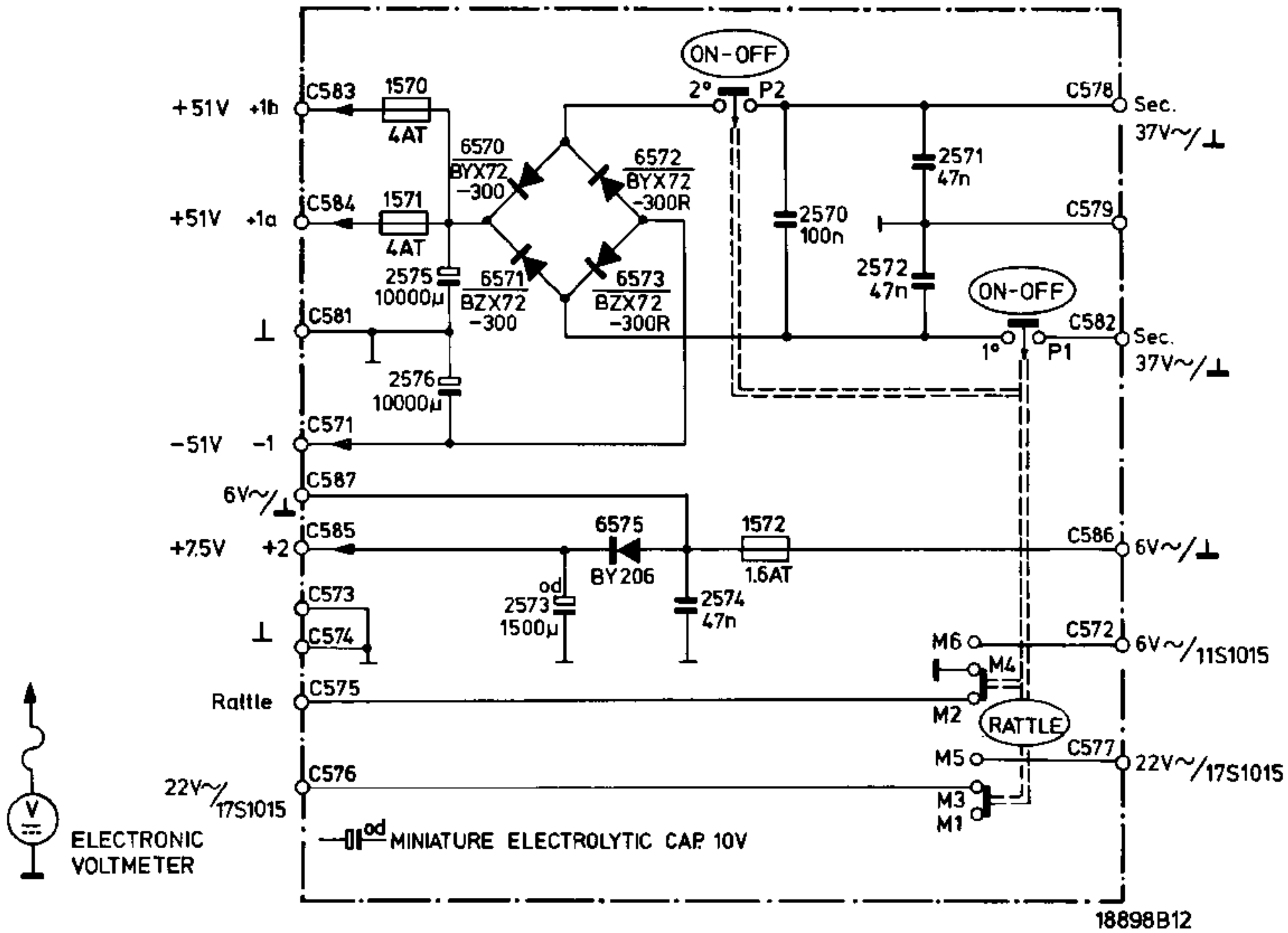
• FOR 240V~
CONNECT 3-7/1015 INSTEAD
OF 3-6/1015
FOR 127V~ (SERVICE SOLUTION)
CONNECT 3-2/1015 INSTEAD
OF 3-6/1015
ADD. CONN. 4-7/1015 AND 1-5/1015





MISC	1570.1571	D6572.6575	1572		
C	2575.2576	2573	2574	2570	2572.2571

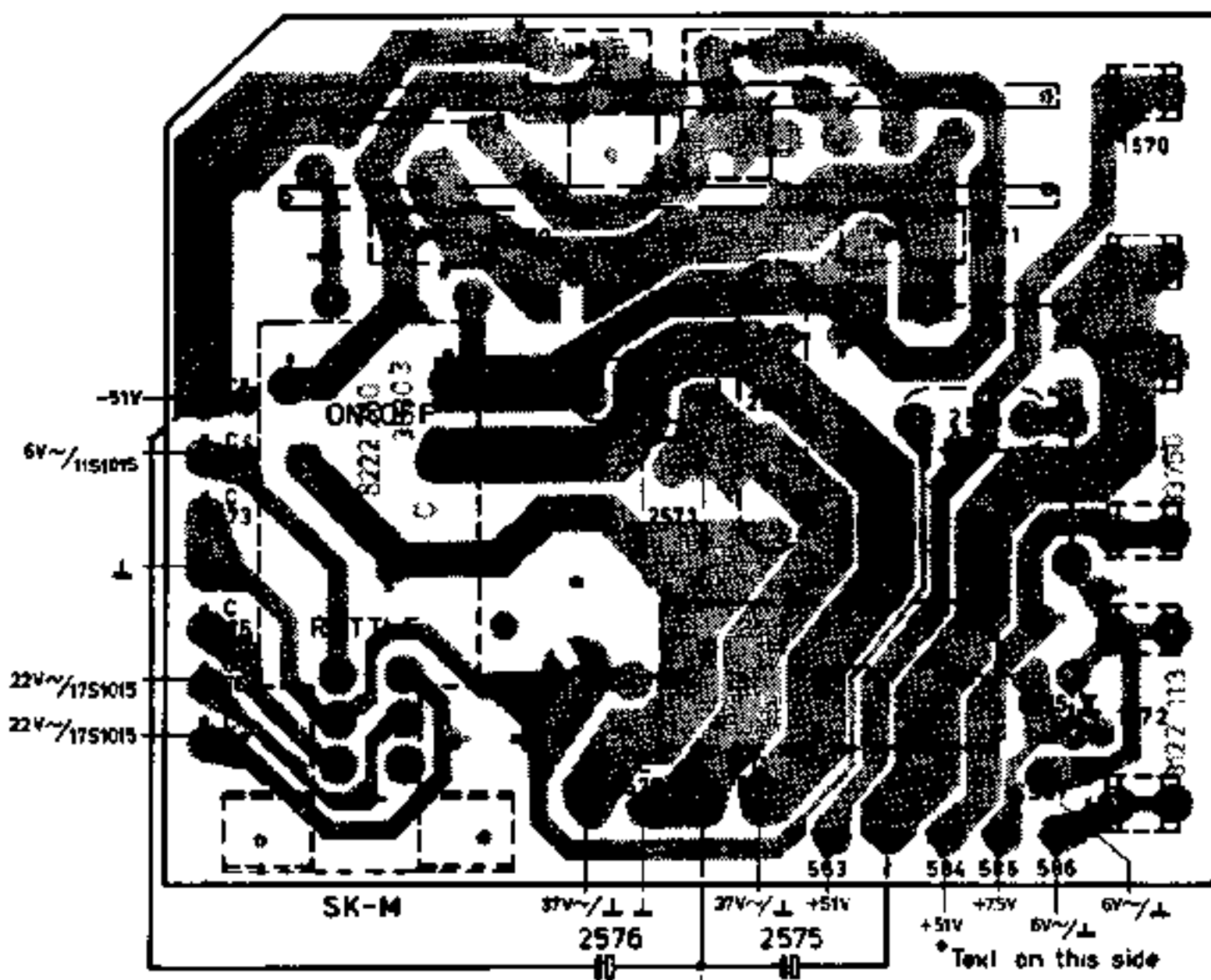
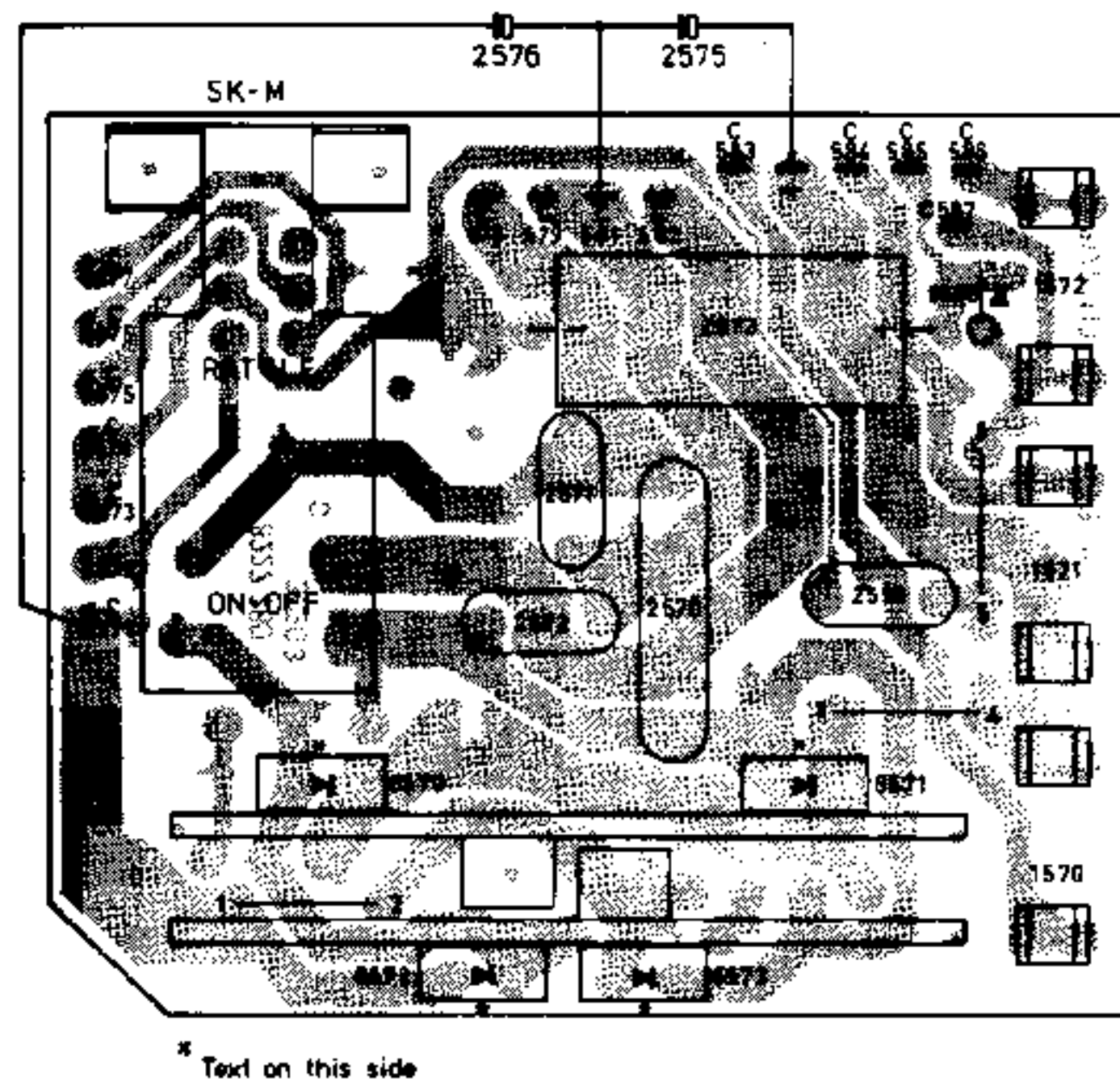
1004 SUPPLY PANEL



MISC	SK-M	D6570.6572	D6573	6571	D6575.VL1570.1571.1572
C		2572.2571	2570	2574	
		2576	2575.2573		



MISC	SK-M	D6570	D6572	D6573	D6571	D6575.VL1570+1572
C			2576	2575.2573		2574
			2572.2571	2570		



1441 DRIVER PANEL
(See pages 11,12)

1442 DRIVER PANEL
(See pages 11,12)

1440 POWER PANEL
x450 + x499

Legend:

- SAFETY RESISTOR
- WIREWOUND RESISTOR 4W
- CARBON RESISTOR 1/8W.CR25-E24 SERIES
- CARBON RESISTOR 1/2W.CR52-E12 SERIES
- CARBON RESISTOR 1W.CR68
- MINIATURE ELECTROLYTIC CAP

Voff. set

NO SIGNAL	>+0.5V
SIGNAL	<-0.5V

DC Protection L.E.D.

Rattle

ELECTRONIC VOLTMETER

BU 11

BU 12

BU 13

BU 14

BU 15

6461
a=51 V
b=50.3V
c=51 V

6459
a=5.8V
b=6.9V
c=12.6V

6460
a=12 V
b=12.6V
c=12.1V

6452
a=-14.4mV
b=-0.6 V
c=-51 V

6451
a=14.4mV
b=0.6 V
c=51 V

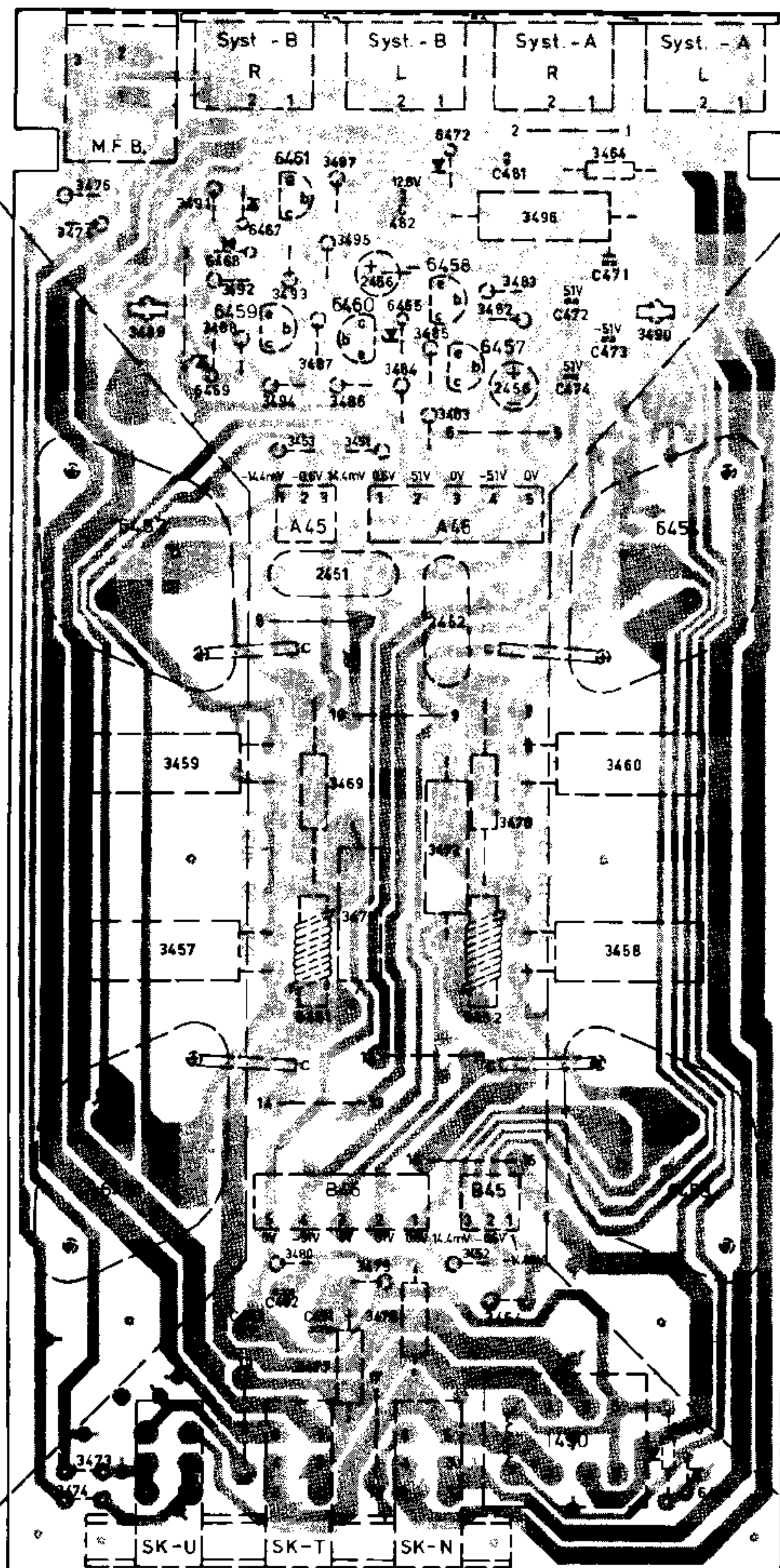
6458
a=0 V
b=0 V
c=12.6V

6457
a=0 V
b=0 V
c=12.6V

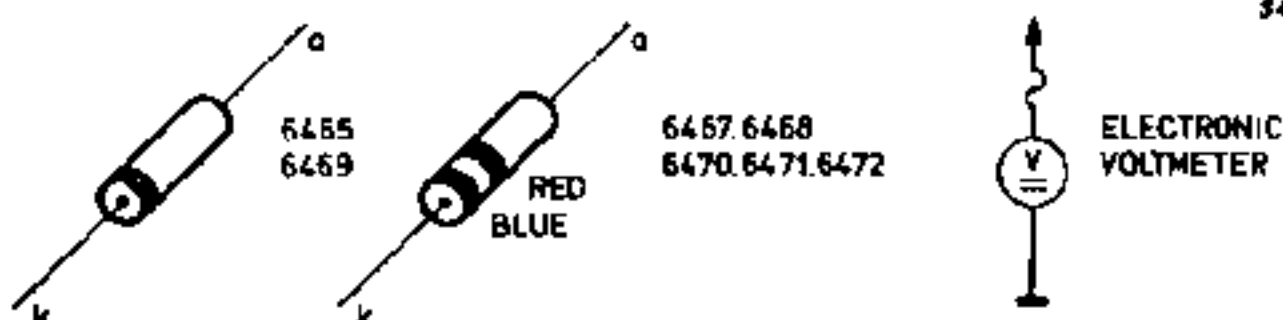
6454
a=14.4mV
b=-0.6 V
c=-51 V

6453
a=14.4mV
b=0.6 V
c=51 V

R	C	TS	D
3476	3497	3464	6472
3475	3491	3496	6467
3475	3495		6468
3492	3493	2456	6458
3488	3482		6459
3489	3485	3490	6450
3487	3484		6457
3494	3486	2455	6465
3453	3451		6469
3459	3469		
3470			
3472			
3471			
3457	3458		
3480	3452		
3479			
3478	3464		
3477			
3473			6470
3474			6471



To be mounted at a certain height from the print
3469, 3470, 3471, 3472, 3477, 3478, 3496



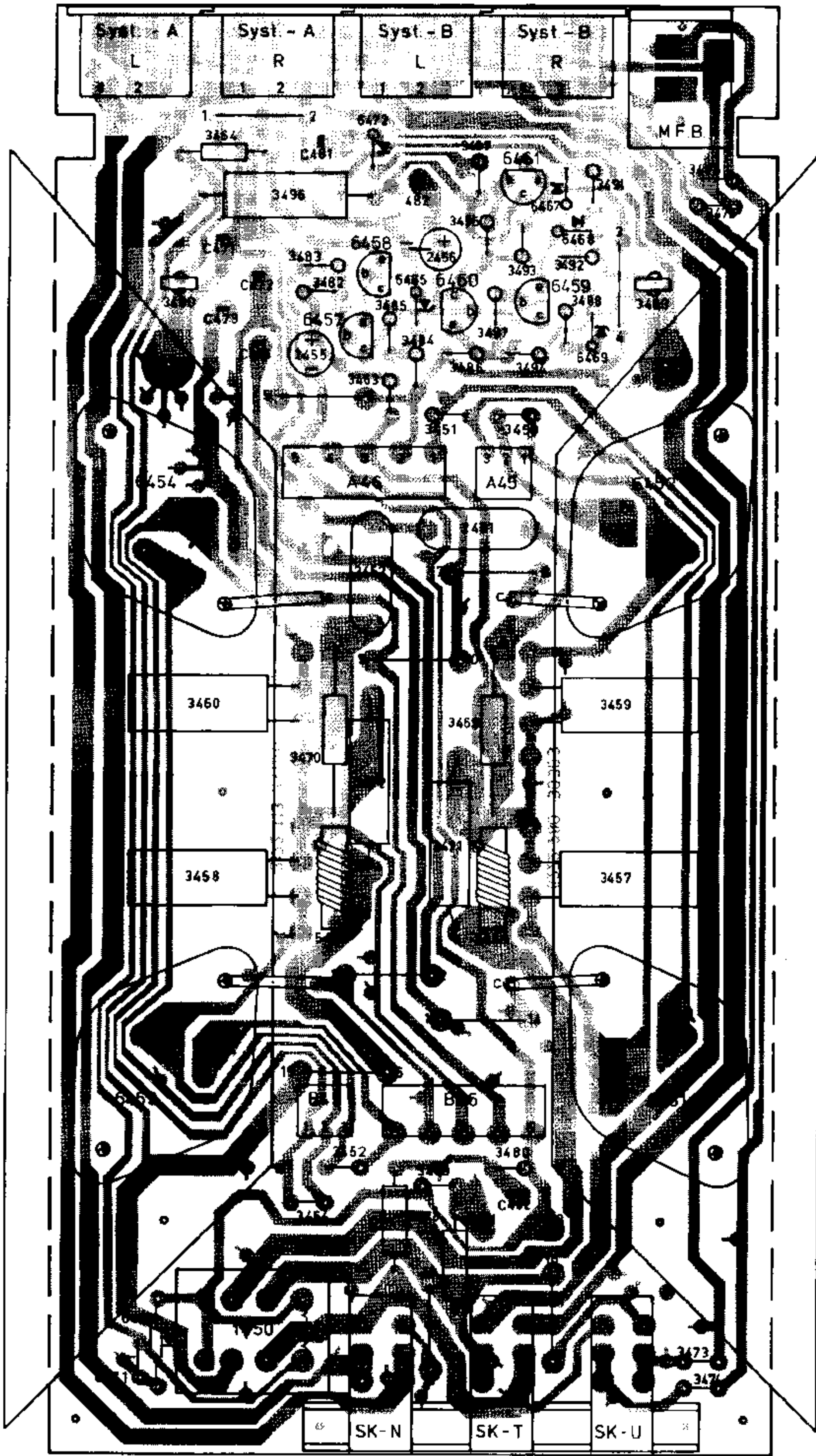
BU 15

BU 14

BU 13

BU 12

BU 11



R			C
3464	3497	3476	
3496	3491	3475	
3483	3493	3492	2456
3482	3488	3489	
3490	3485		
	3487		
	3484		
3463	3486	3494	2455
	3451	3453	
			2451
			2452
3460		3459	
3470	3469		
	3472		
	3471		
3458	3457		
3452		3480	
	3479		
3454	3478		
		3477	
		3473	
		3474	

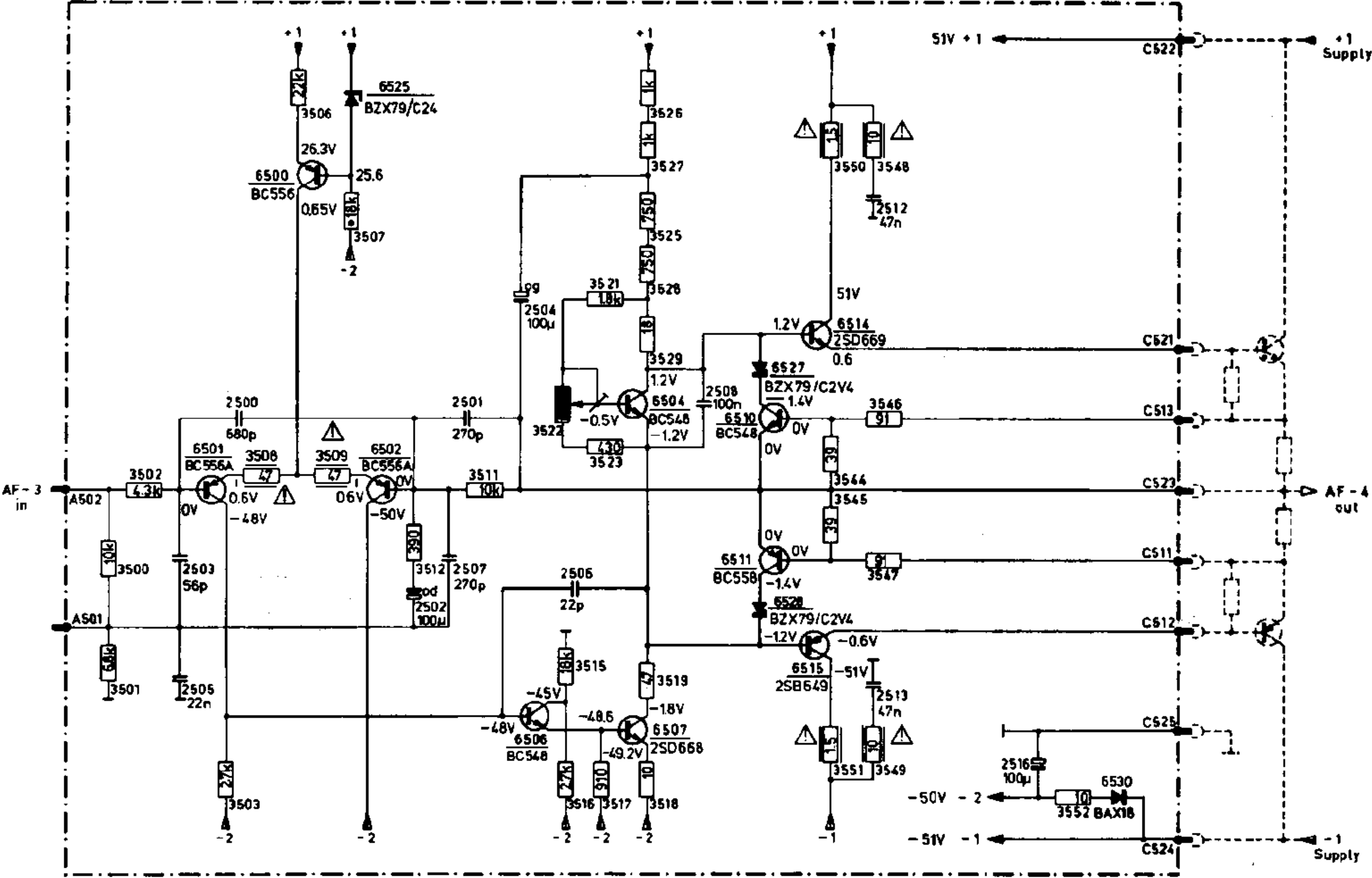
To be mounted at a certain height from the print.
3469, 3470, 3471, 3472, 3477, 3478, 3496.

Syst - A Syst - B M.F.B.

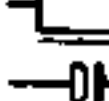
19656D12

MISC.	TS 6501	TS 6500, D6525, TS 6502	TS 6506	TS 6507, 6504	TS 6511, 6510, D6527, 6528, TS 6515, 6514	6530
C	2503, 2505, 2500	2502, 2507, 2501, 2504, 2506		2508	2512, 2513	2516
R3500 ÷ 3522	3500 ÷ 3503	3506 ÷ 3509	3512	3511	3521 ÷ 3523, 3515 ÷ 3519	
R3523 ÷ 3552				3525 ÷ 3529	3544 ÷ 3551	3552

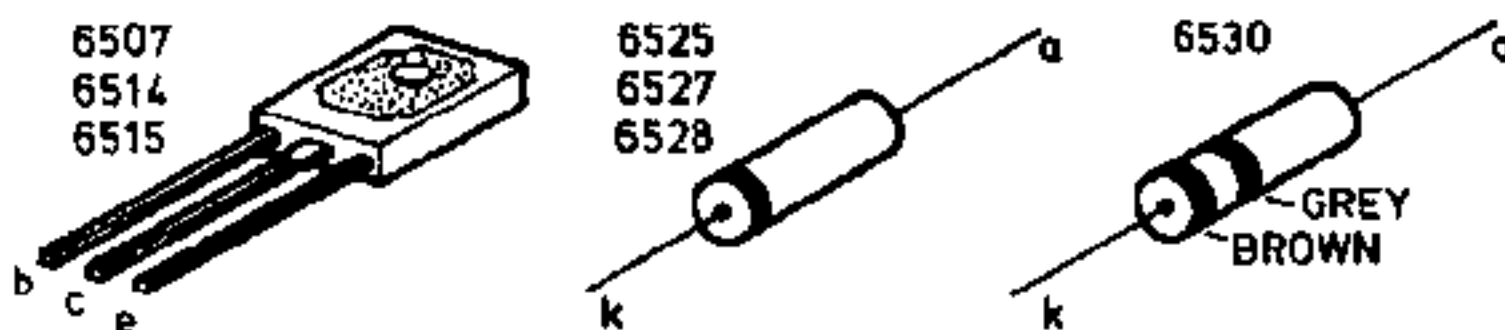
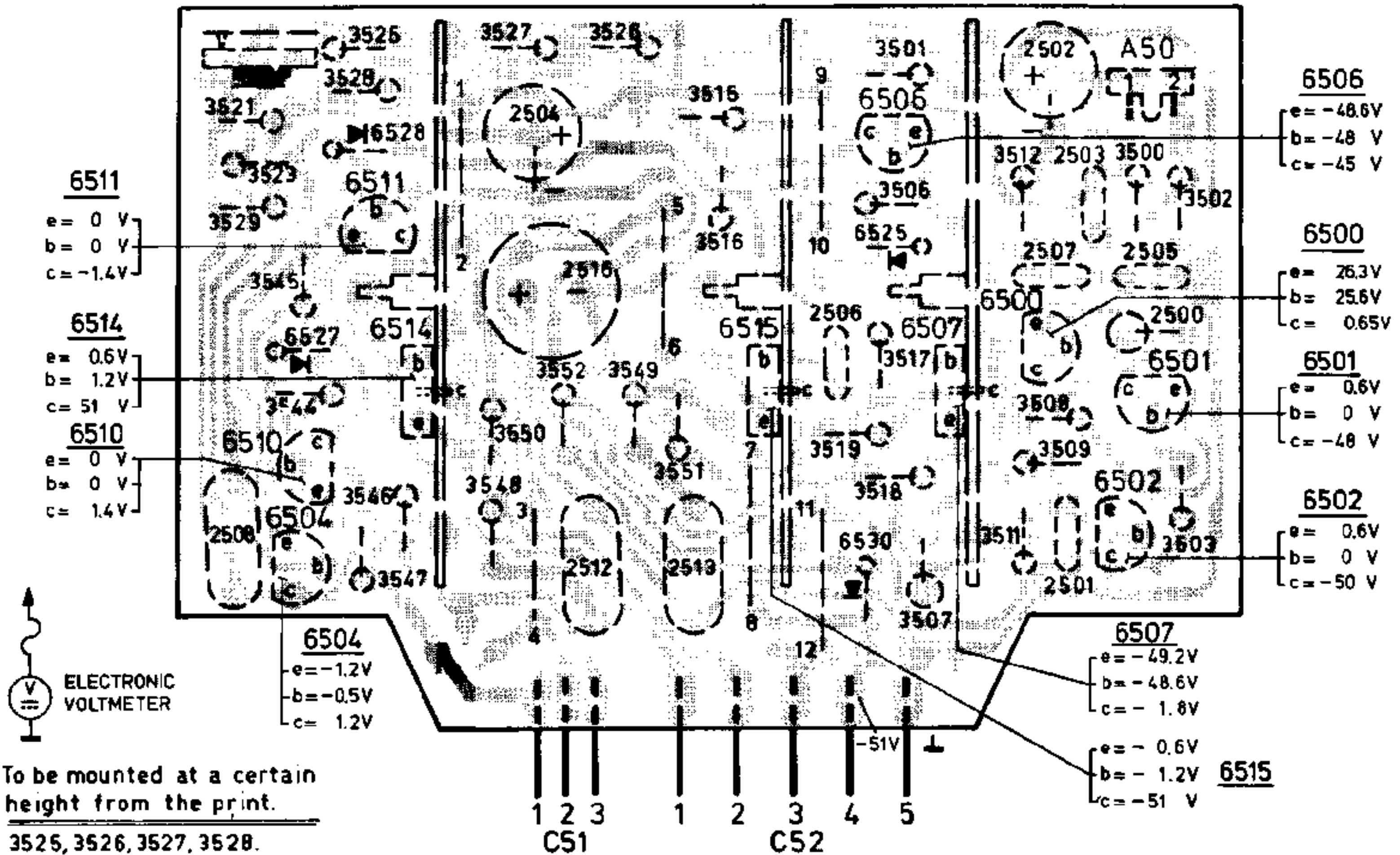
1441 DRIVER PANEL



ALL RESISTORS ARE 1/8W, CR25-E24 SERIES, EXCEPT R3507=1/4WCR37-E12 SERIES

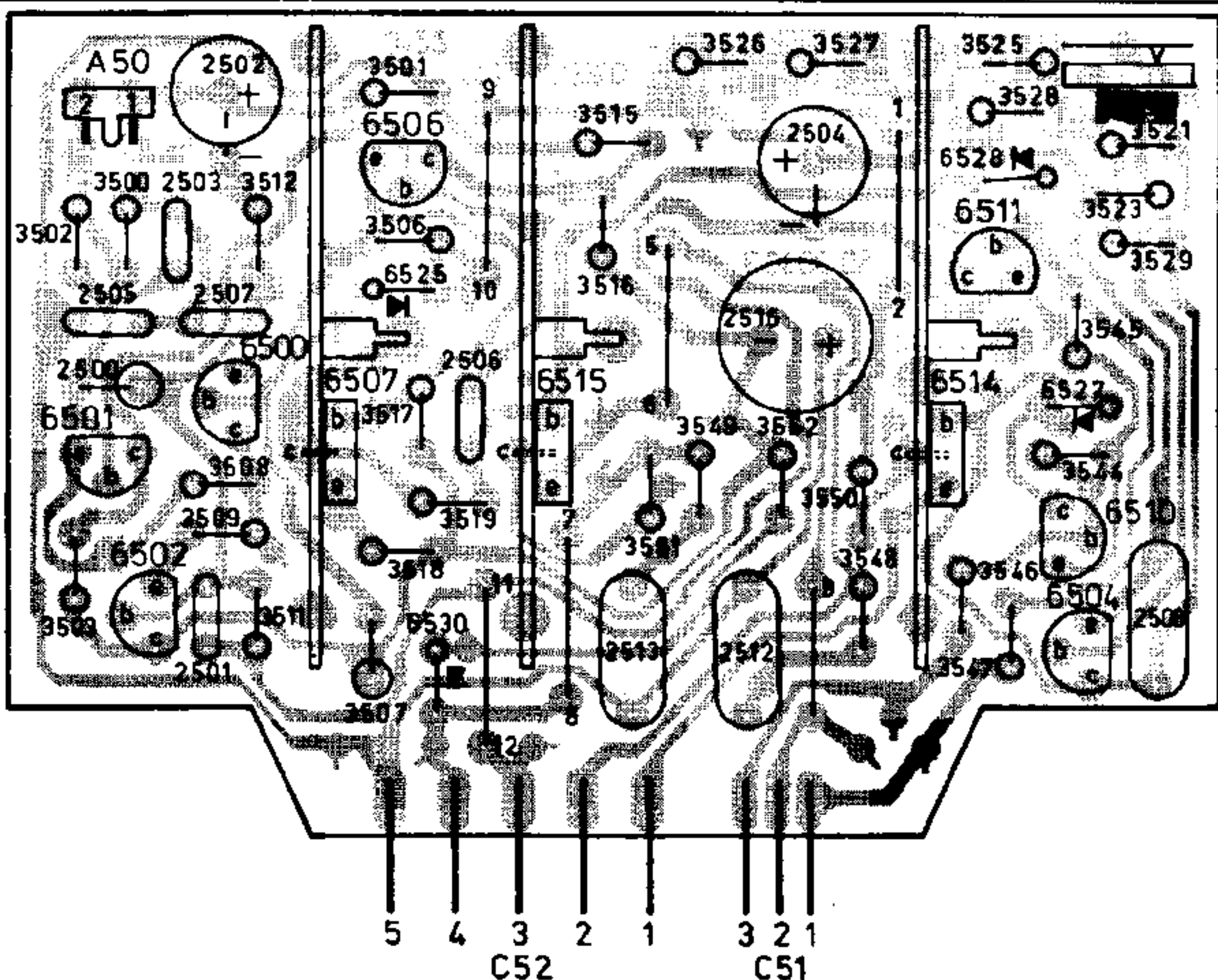
-  SAFETY RESISTOR
-  MINIATURE ELECTROLYTIC CAP
-  ELECTRONIC VOLTMETER
- d=10V
g=40V

TS	6504.6510.6511.6514				6515	6506.6507		6500	6501
D	6527 6528		6530 6525						
C	2504 2516				2506		2502,2503,2505		
	2508	2512		2513	2507,2501 2500				
R	3522	3525	3527	3526	3515	3501		3512	3500
	3523	3528	3522 3549		3516	3506		3508	3502
	3521	3545	3546	3550		3551	3519	3517	3509
	3529,3544		3547	3548	3518,3507			3511	3503



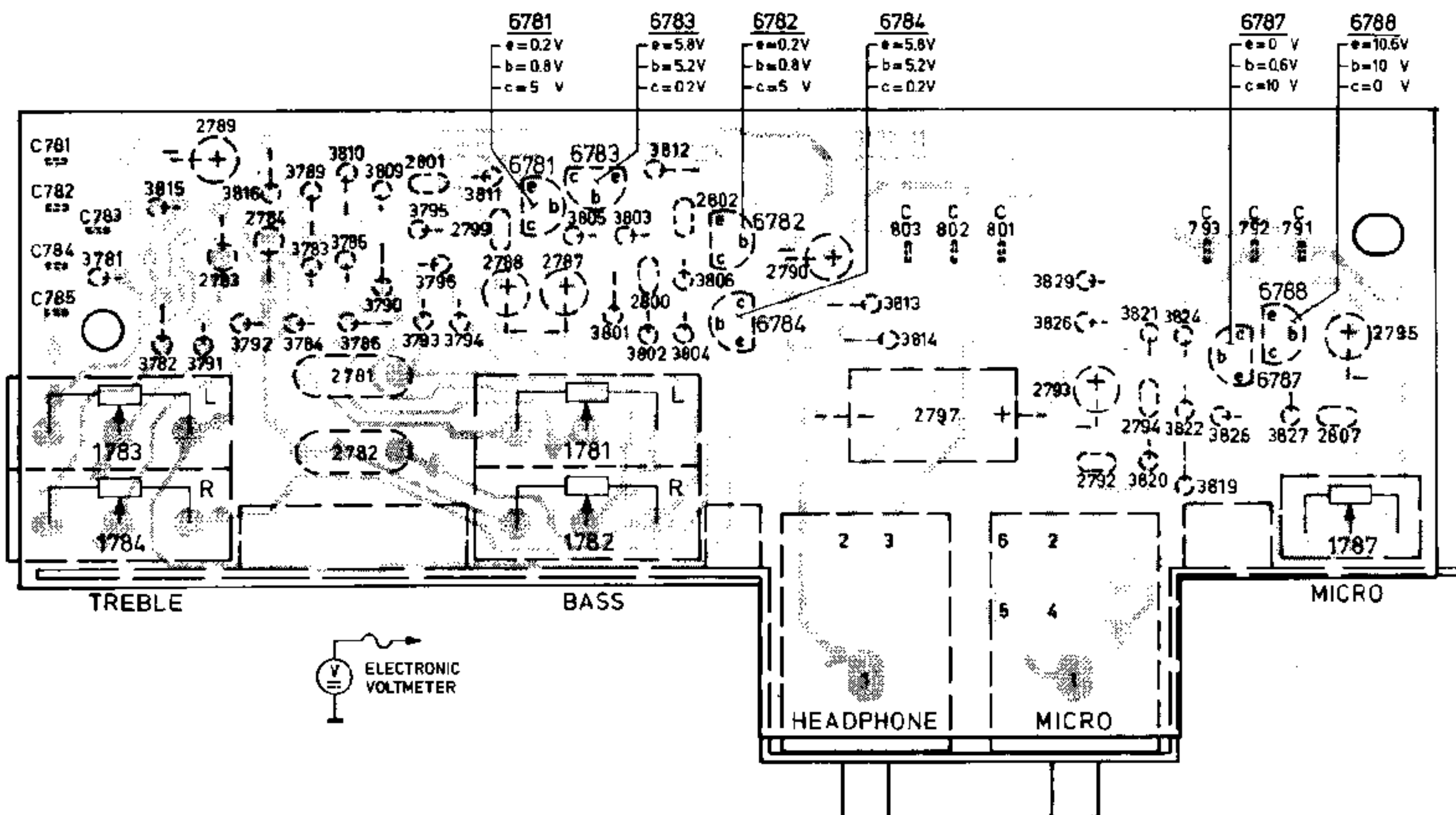
19655C12

TS	6501	6502	6500	6507	6506	6515	6514	6511	6504	6510
D	6525 6530					6528 6527				
C	2505	2503	2502	2506		2516 2504				
	2500	2501,2507		2513		2512	2508			
R	3500	3512		3501	3515	3526	3527	3525	3522	
	3502	3508		3506	3516	3549	3552	3528	3523,3521	
	3509		3517	3519	3551	3550		3546	3545 3529	
	3503	3511	3507,3518			3548	3547	3544		



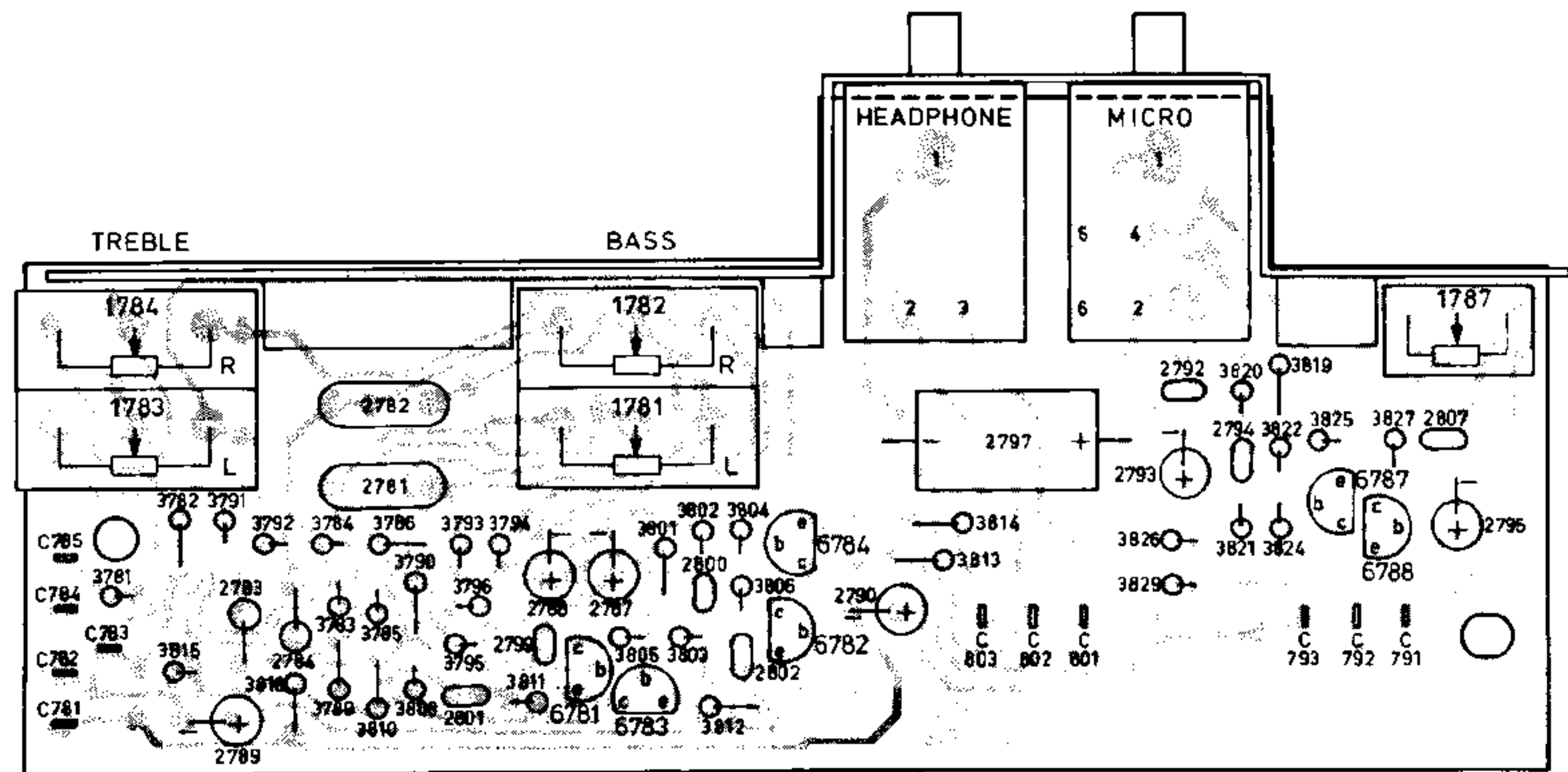
19654C12

MISC	6781, 6783					6782, 6784					6787, 6788				
C	2783	2782	2788	2787	2800	2797	2792	2794	2807						
	2789	2784	2781	2801	2799	2802	2790	2793	2795						
R	3782	3791	3792	3784	3786	3793	3794	3802	3804	3820	3819				
	3781		3783	3795	3790	3797	3801			3822	3825	3827			
	3815		3809	3795		3805	3803	3806	3814	3826	3821	3824			
	3816	3789	3810	3811		3812		3813	3829						



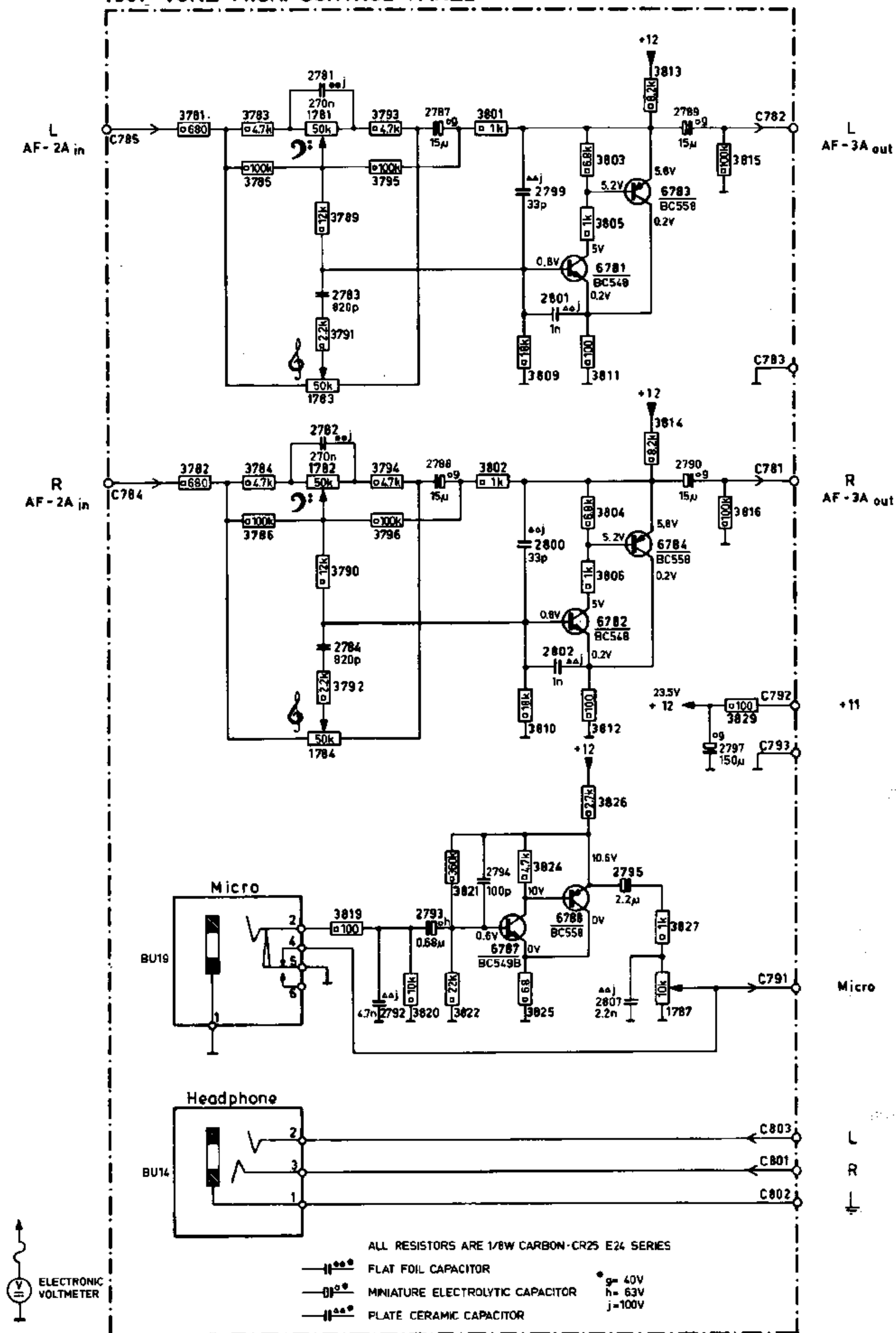
18989D12

MISC	6781, 6783					6782, 6784					6787, 6788				
C	2783	2782	2788	2787	2800	2797	2792	2794	2807						
	2789	2784	2781	2801	2799	2802	2790	2793	2795						
R	3782	3791	3792	3784	3786	3793	3794	3802	3804	3820	3819				
	3781	3783	3785	3790	3796	3801	3805	3803	3806	3814	3826	3821	3824	3827	
	3815	3809	3795	3805	3803	3806	3814	3826	3821	3824					
	3816	3789	3810	3811	3812	3813	3829								



18994D12

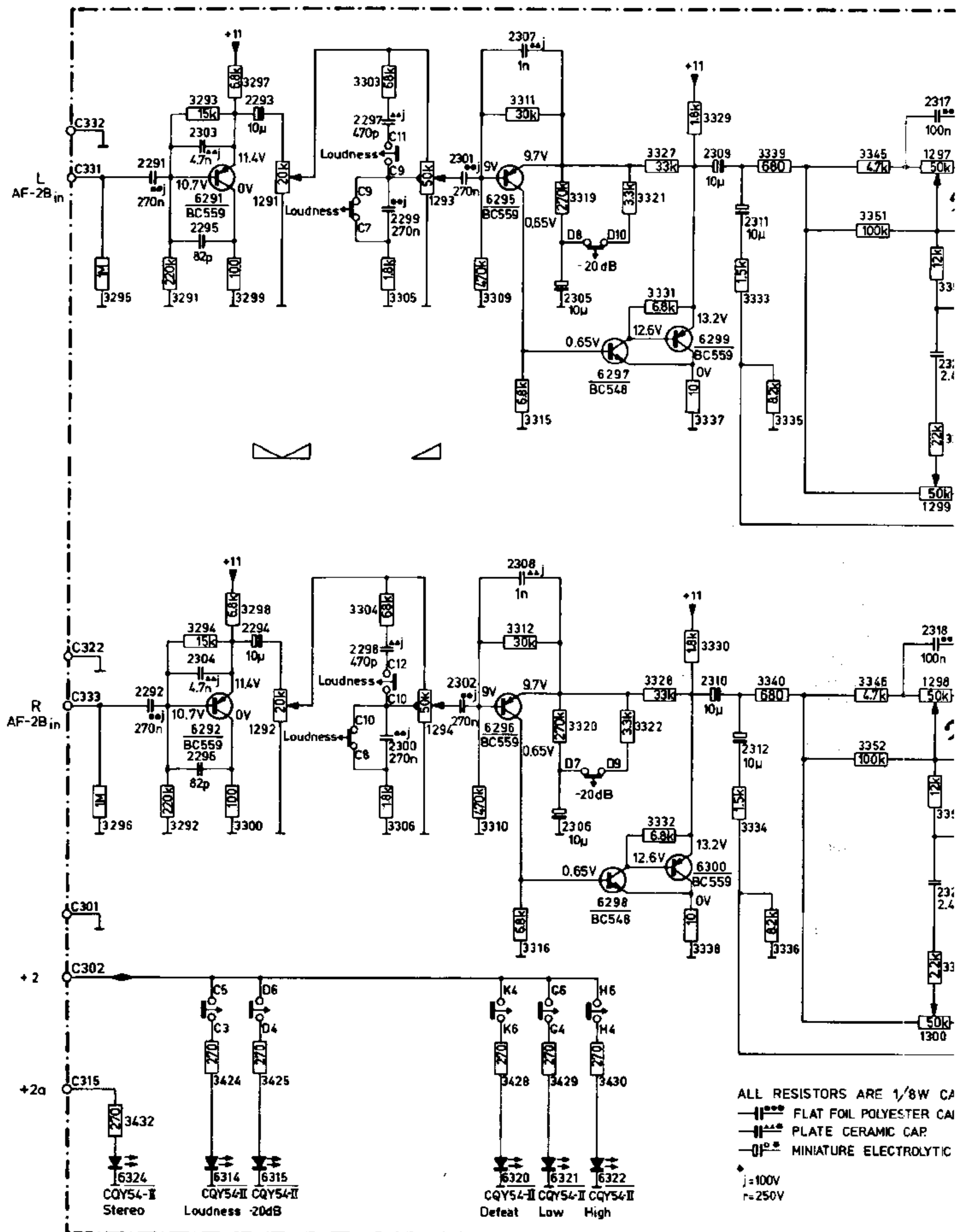
MISC.	C	R
	2781	3813 3791 3793
	2787 2789	1781 3793 3801 3803 3815 3785 3795
6783	2799	3789 3805
6781	2783 2801	3791 3809 3811 1783
	2782	3814 3782 3784 1782 3794 3802 3804 3816 3786 3796
6784	2800	3790 3806
6782	2784 2802	3782 3810 3812 3829 1784
	2787	3826
	2794 2795	3821 3824
6788	2793	3819 3827
BU19	2782 2807	3820 3822 3825 1787
BU14		



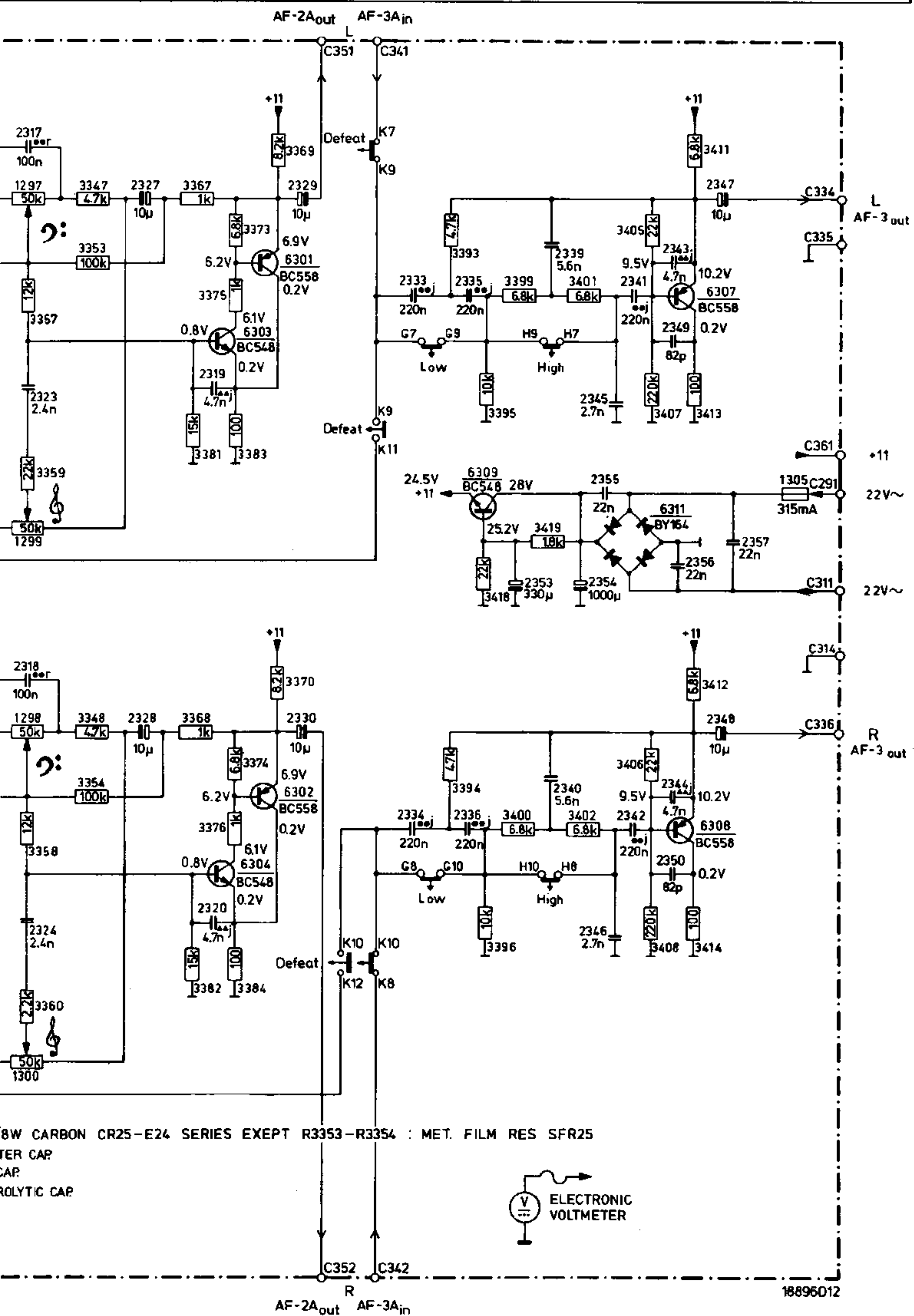
10078012

1002 TONE CONTROL

MISC	D6324.D6314 . 6315.TS6291.6292										TS6295.6296.D6320...6322.TS6297...6300												
C	2291.2292.2303.2304.2293				2295	2297...2299.2300...2302.2305...2308				2309...2312				2317.2318.232									
R	3295	3291.3293.3297.3299.1291				3303.3305.1293				3309.3311	3319	3321.3327.3331.3329.3333.3339				3345.3351.1297.335							
R	3432	3294.3298 1292				3304 1294				3312.3315.3320.3322.3328.3330.3337.3335.3340				3352.3346.1298.129									
R	3296	3292.3424 . 3425.3300				3306				3310	3316	3428...3430				3332.3338 3334.3336				3338.3360			



TS6301...6304	TS6309	D6311.TS6307.6308	1305
318.2323.2324.2327.2328	2319.2320.2329.2330	2333...2335.2353.2339...2345.2354...2357.2347...2350	
97.3357.3347.3353	3367.3373.3375.3369	3393.3395.3399	3401.3405.3407.3411.3413
98.1299.3359.3348.3354.3368.3381.3383.3374.3370	3394.3418	3419	3406 3412
8.3360.1300	3382.3376.3384	3396.3400	3402 3408.3414



M	1291...1294										1297, 1298			
TS,D	6314	6295	6300		6301...6304				6315	6291		6292		
R	3316 3312, 3328 3330				3335	3336	3370	3367 3368		3297		3293		
	3311	3327	3330	3332	3333	3334, 3369 3376, 3374, 3358			3354	3353	3299	3291	3300 3292	
	3315	3331, 3318		3329	3322	3320	3373	3381, 3384	3352	3351	3367 3348 3347		3298	
	3309		3303, 3337	3306	3319	3321	3375	3340	3382	3346				
	3424, 3304, 3305				3383		3339	3425	3345					
C	2302	2308		2310 2312		2329				2293	2294	2304		
	2307		2311				2330				2303		2296	
	2301	2309			2319	2320	2327 2328		2295					
	2298		2306		2305		2318			2317				
	2297		2299	2300										

6295/6296

e=9.7 V
b=8 V
c=0.65 V

6297/6298

e=0 V
b=0.65 V
c=0.25 V

6299/6300

e=13.2 V
b=12.6 V
c=0 V

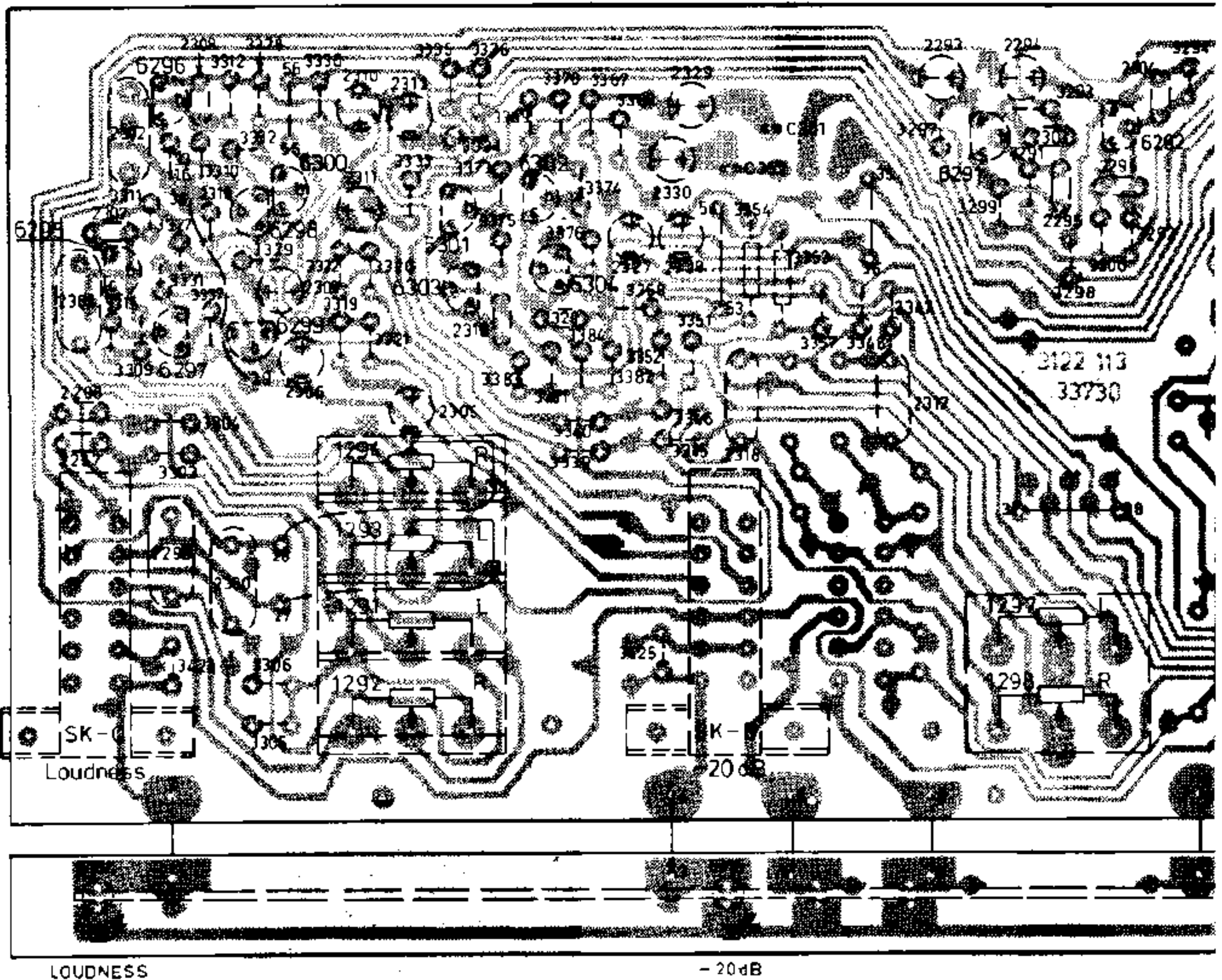
6301/6302

e=6.9 V
b=6.2 V
c=0.2 V

6303/6304

e=0.2 V
b=0.8 V
c=6.1 V

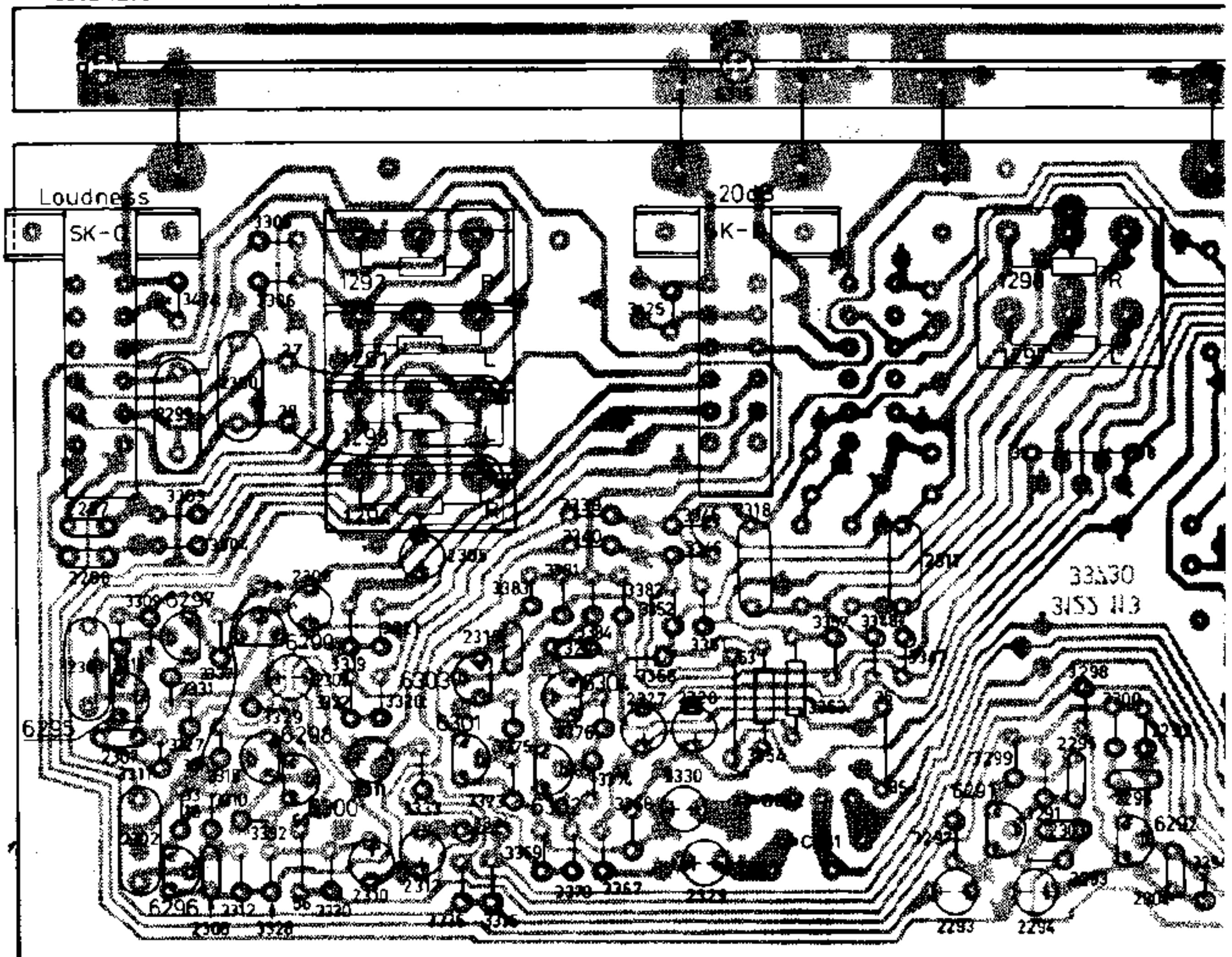
6291/6292

e=11.4 V
b=10.7 V
c=0 V

M	1291-1294										1297, 1298			
TS,D	6314	6295	6300	6301-6304				6315	6291		6292			
C	2297	2299	2300											
	2298	2306			2305	2318			2317					
	2301	2309			2319	2320	2327	2328	2295					
	2307		2311			2330			2303		2296			
	2302	2308	2310 2312			2329			2293	2294	2304			
R	3424, 3304, 3305				3383	3339	3425	3345						
	3309	3303, 3337	3306	3319	3321	3375	3340	3382	3346					
	3315	3331, 3318	3329	3322	3320	3373	3381, 3384	3352	3351	3357	3348, 3347	3298		
	3311	3327	3310	3332	3333	3334, 3369	3376, 3374	3358	3354	3353	3299	3291	3300	3292
	3316 3312, 3328				3330	3335	3336	3370	3367, 3368	3297		3293		

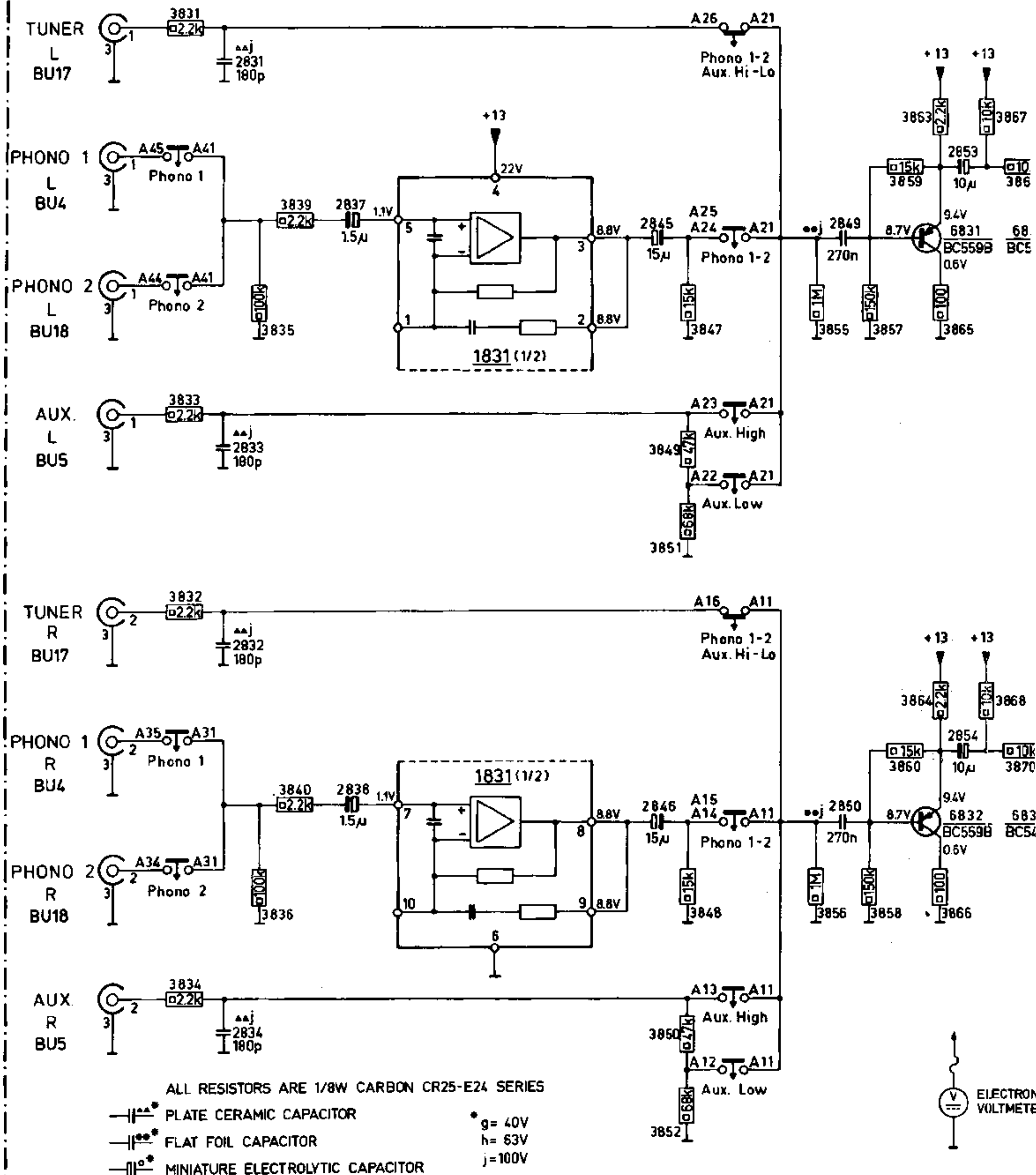
LOUDNESS

-20dB

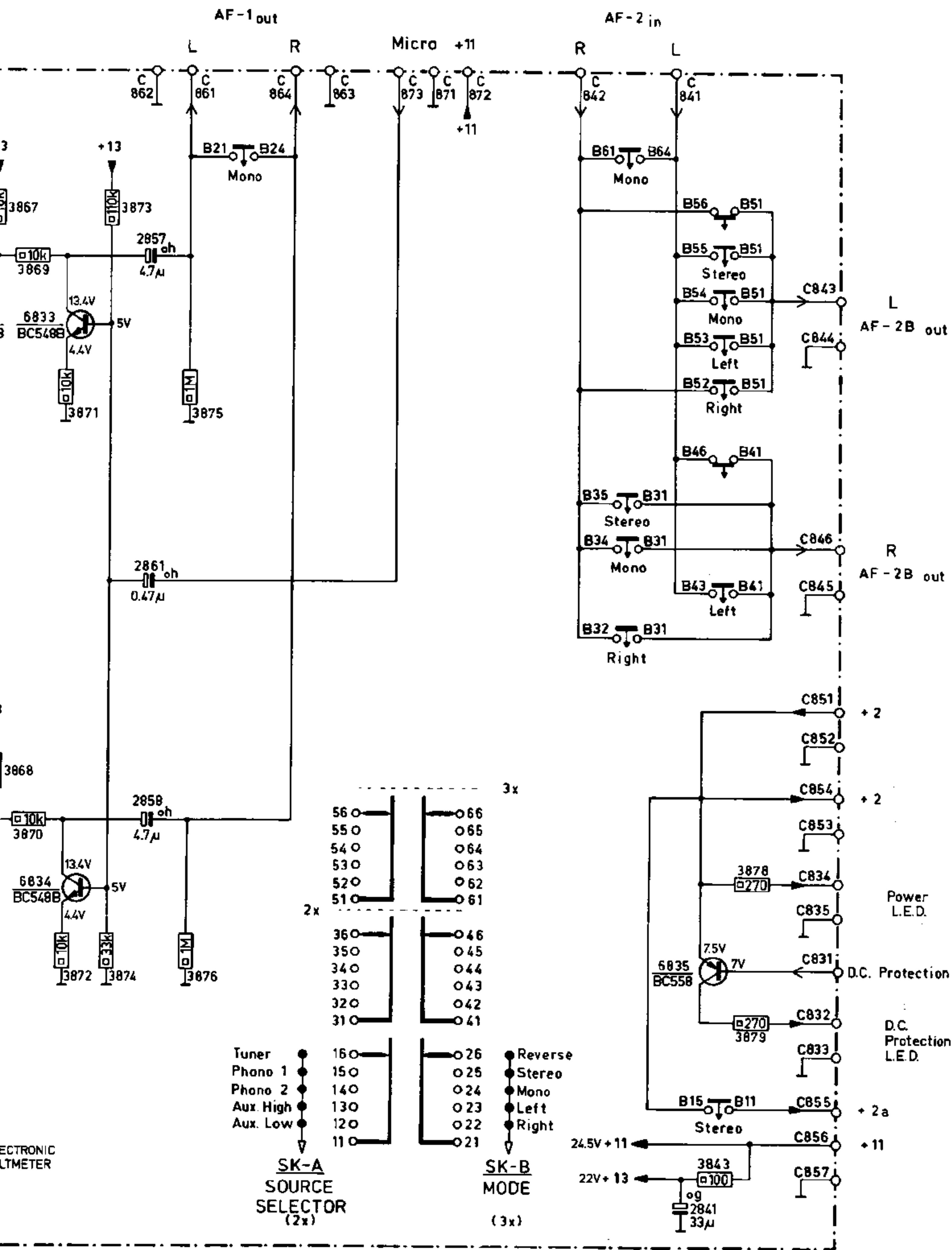


MISC.	BU4.5.17.18	1831	2845.2846	2849.2850	6831...683
C	2831...2834	2837.2838	2845.2846	2849.2850	2853.2854
R	3831...3836.3839.3840		3847...3852	3855...3860	3863...

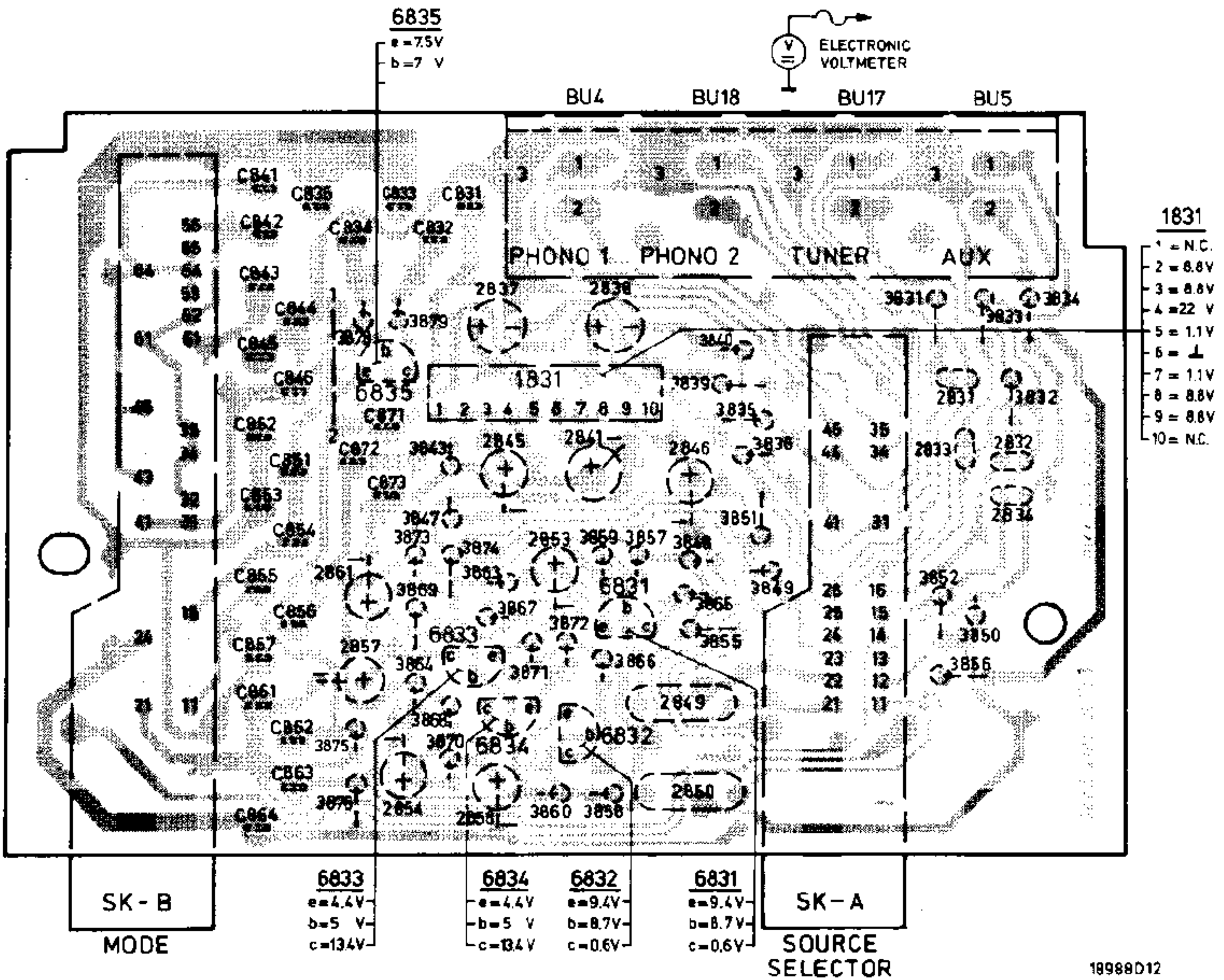
1008 SELECTOR PANEL



1-6834	SK-A	SK-B	6835
54	2857.2861.2858		2841
3863-3874	3875.3876		3843.3878.3879

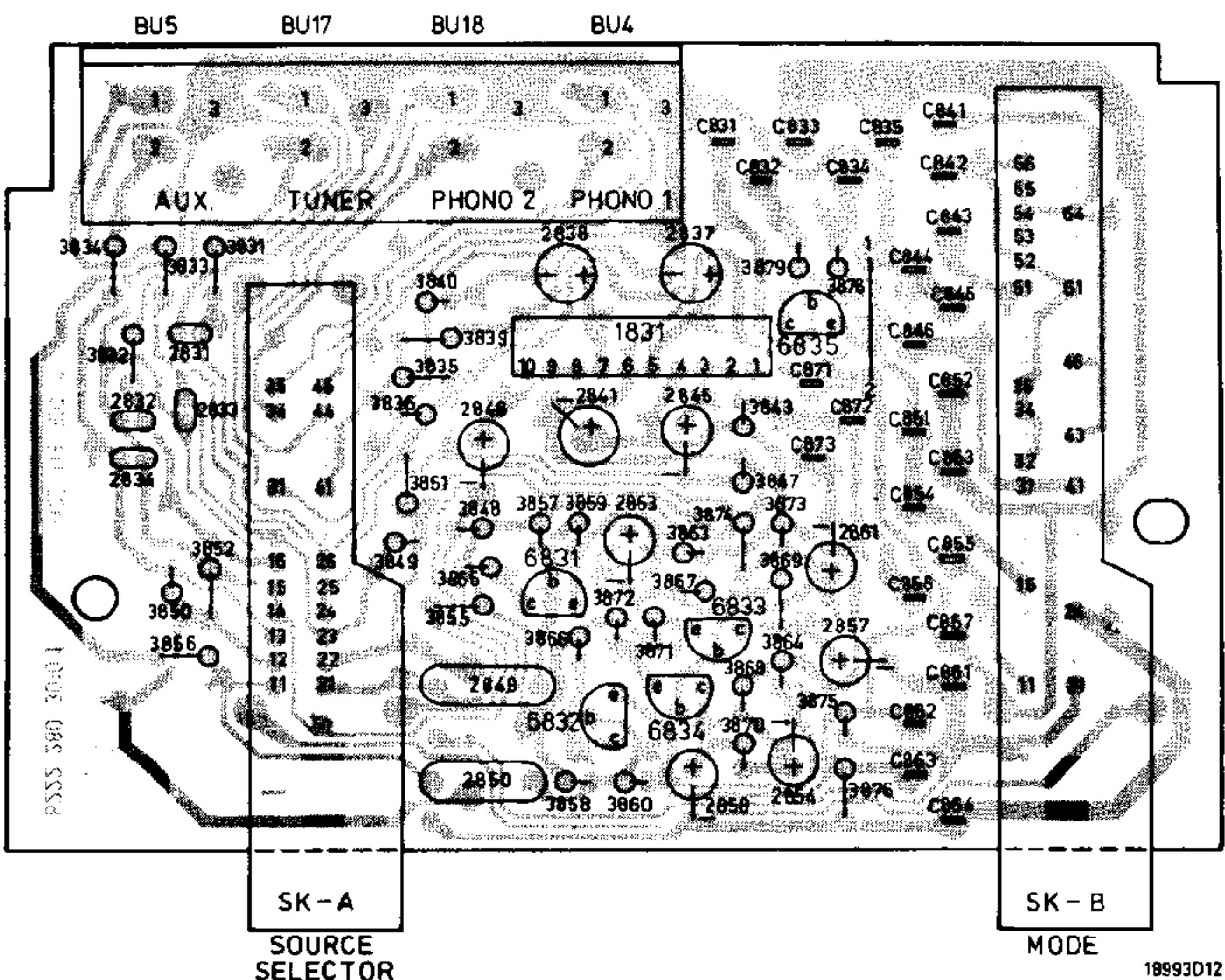


MISC	SK - B	6835	6833, 6834, 6832	6831	SK - A
C		2837	2838	2846	2831 2832
		2861	2845	2841	2849
		2857 2854	2858	2853	2850
R		3878	3879	3839, 3840	3831 3833 3834
		3843 3874	3859 3857	3835, 3836	3832
		3873, 3847, 3863, 3867	3872	3866 3848, 3851	3852
		3869, 3868	3871	3865 3849	3850
		3876, 3875, 3864, 3870	3860 3858	3855	3856



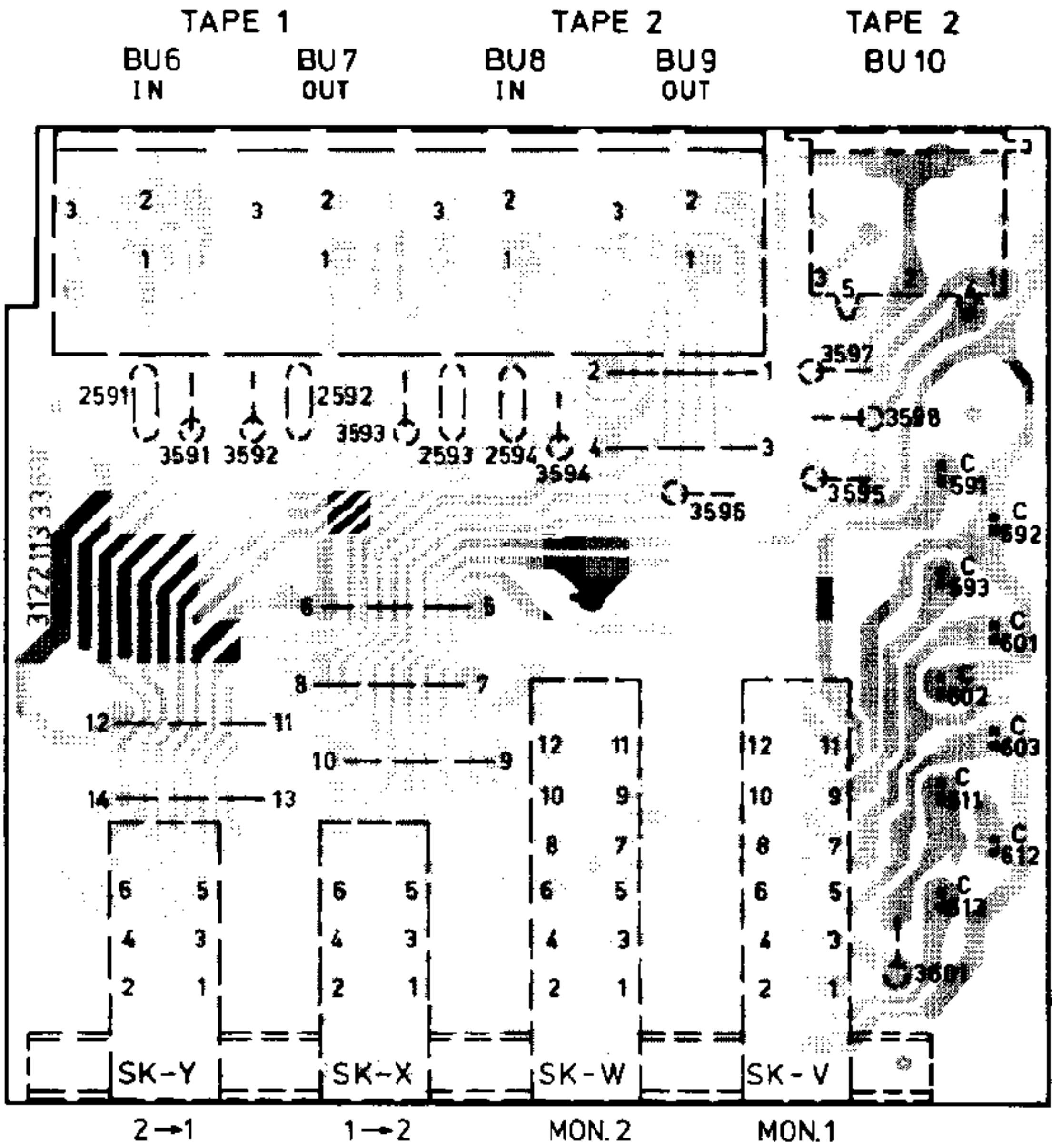
18988012

MISC	SK - A	6831	6832, 6834, 6833	6835	SK - B
C	2832 2831	2846	2838	2837	
	2834 2833	2849	2841	2845	2861
		2850	2853	2858 2854 2857	
R	3834 3833 3831	3840	3879, 3843	3878	
	3832	3836, 3835, 3839	3857, 3859	3874 3847	
	3852	3851 3848	3872 3863	3873	
	3850	3849 3865	3866	3867 3868, 3869, 3875	
	3856	3855	3858, 3860, 3871	3870, 3864	3876



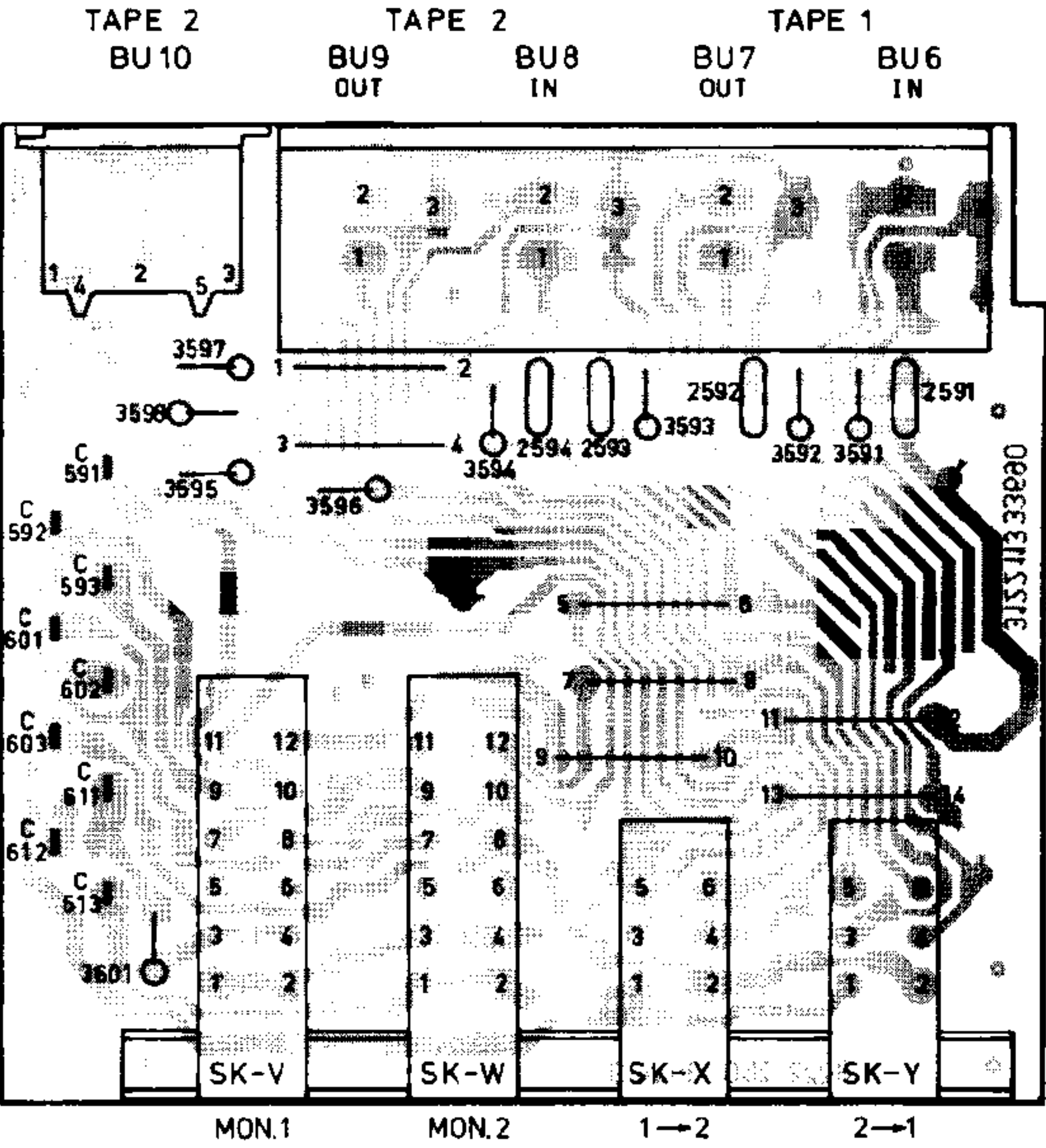
18993012

C	2591	2592	2593	2594				
R	3591	3592	3593	3594	3596	3597	3598	
						3595	3601	



19653C12

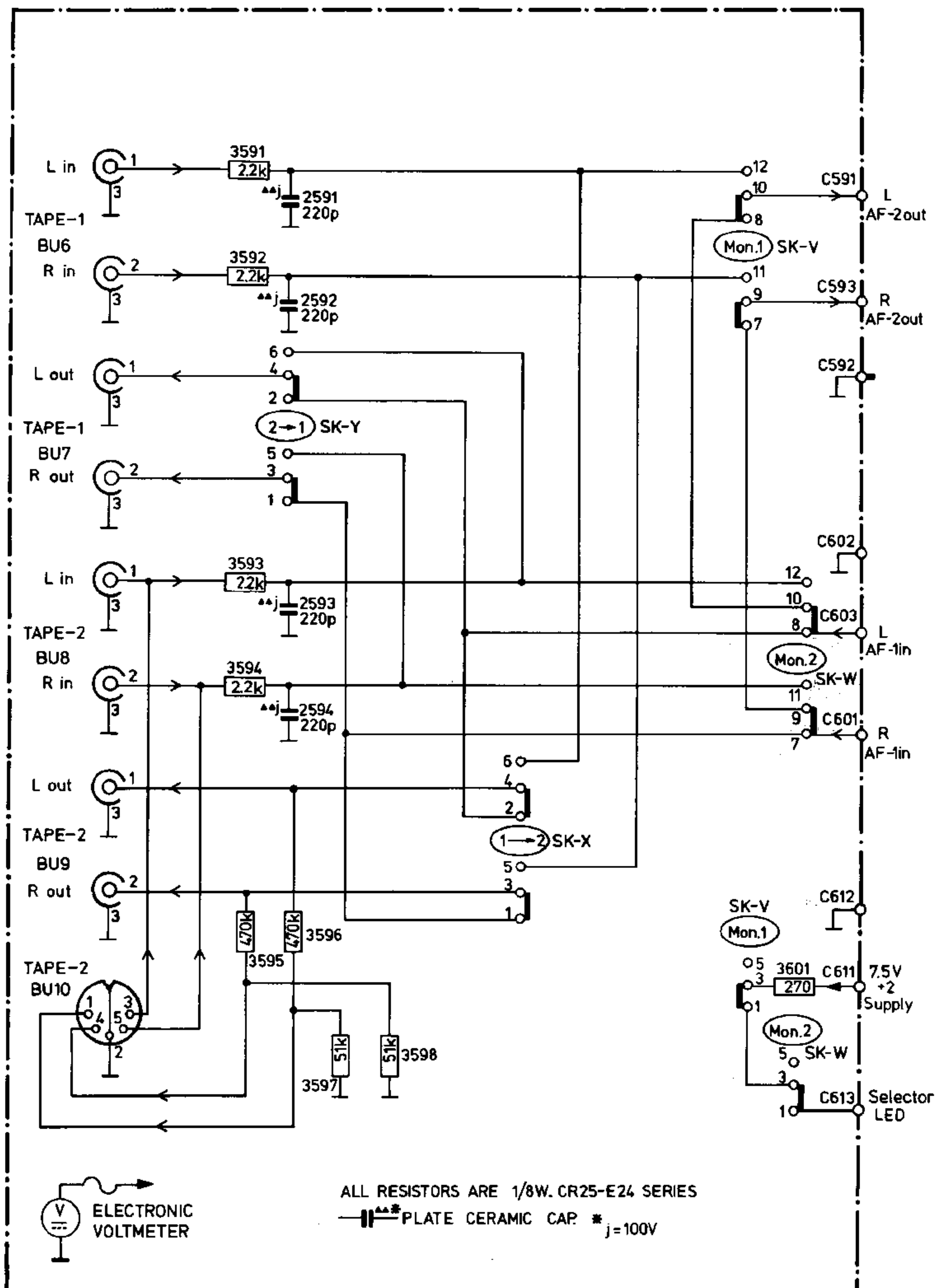
C			2594	2593	2592	2591	
R	3598	3597	3596	3594	3593	3592	3591
	3601	3595					



19652C12

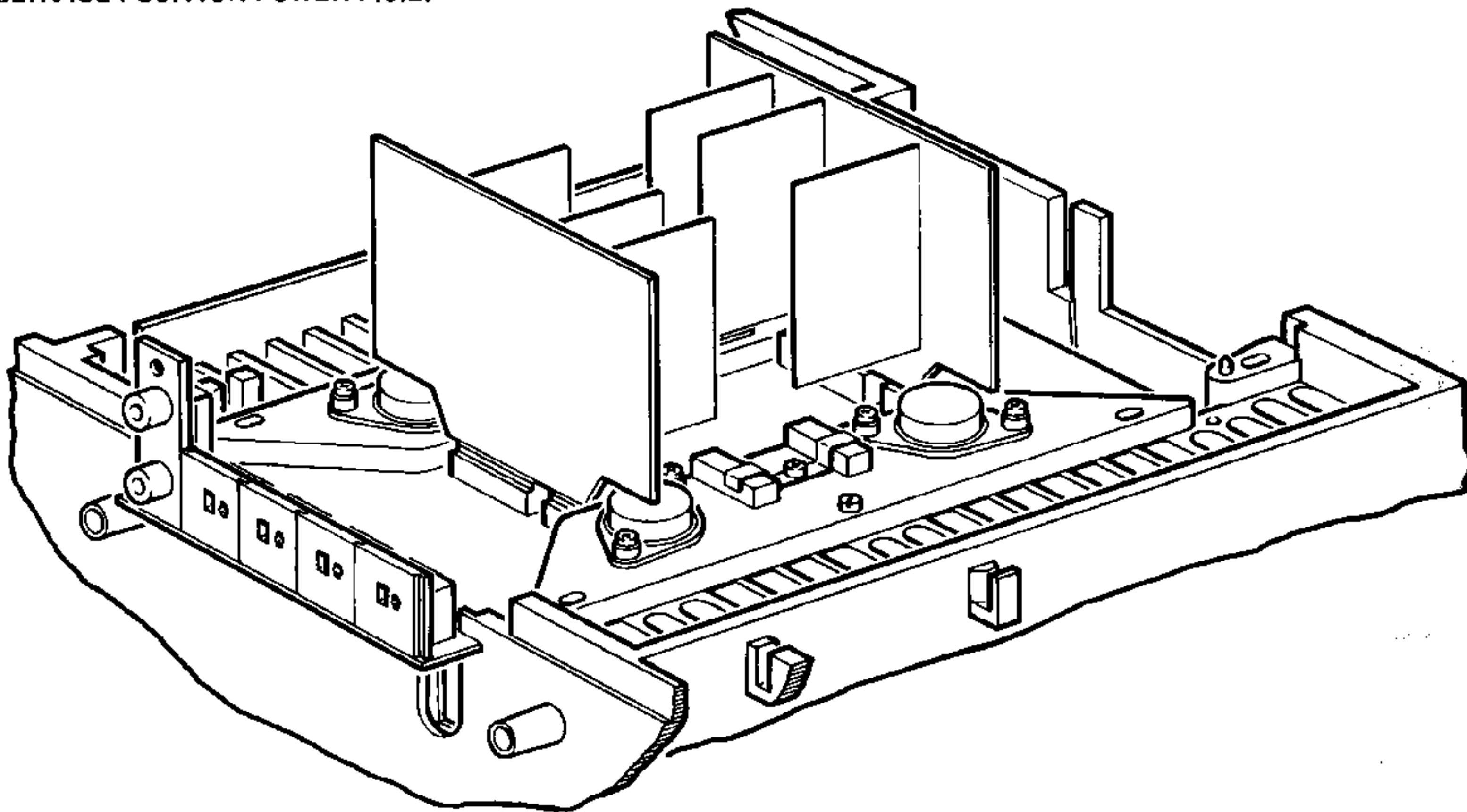
1005 INPUT DUBBING PANEL

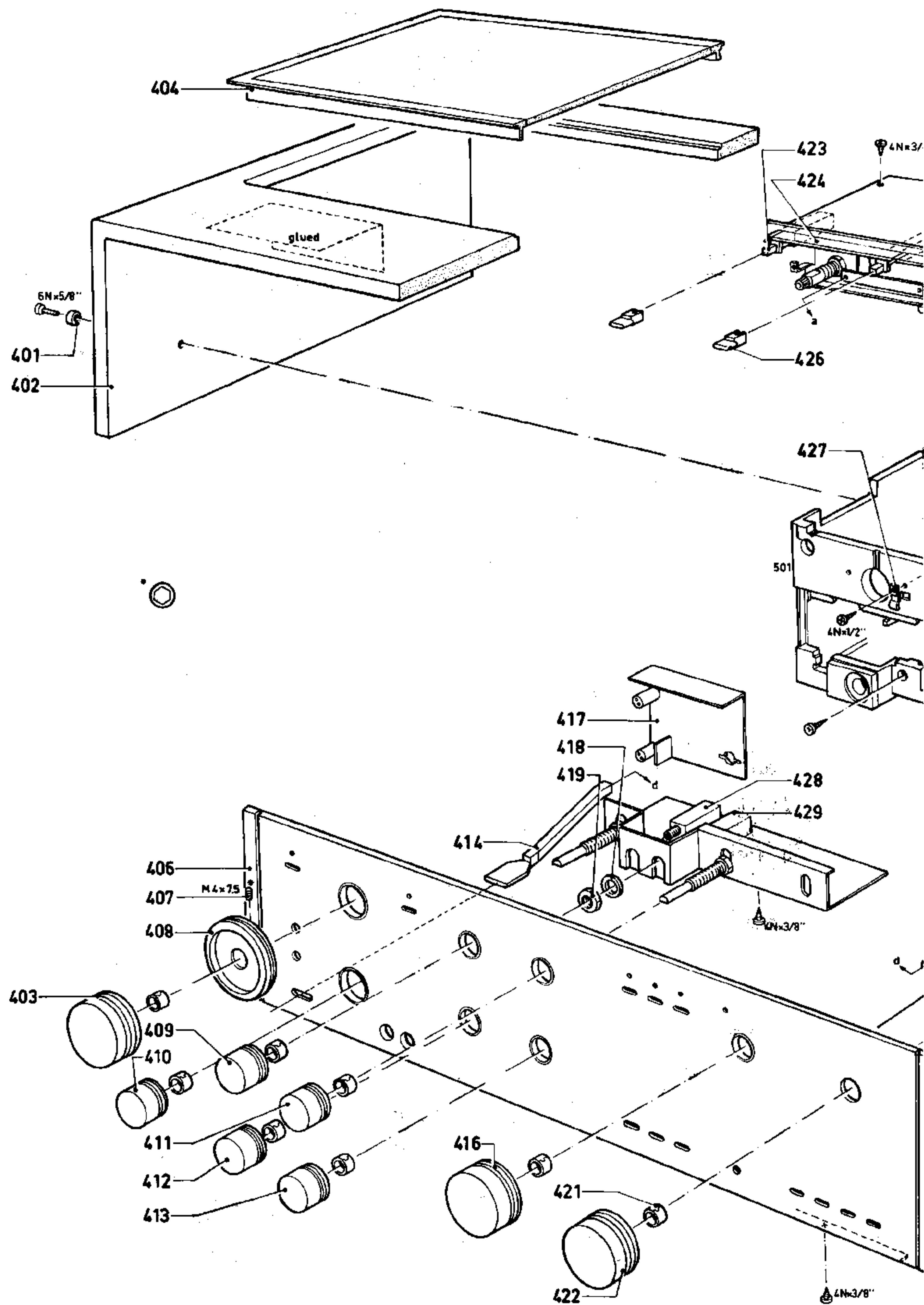
MISC.	BU6...10	SK-X	SK-V	SK-W
C	2591...2594			
R	3591...3596.3597.3598		3601	

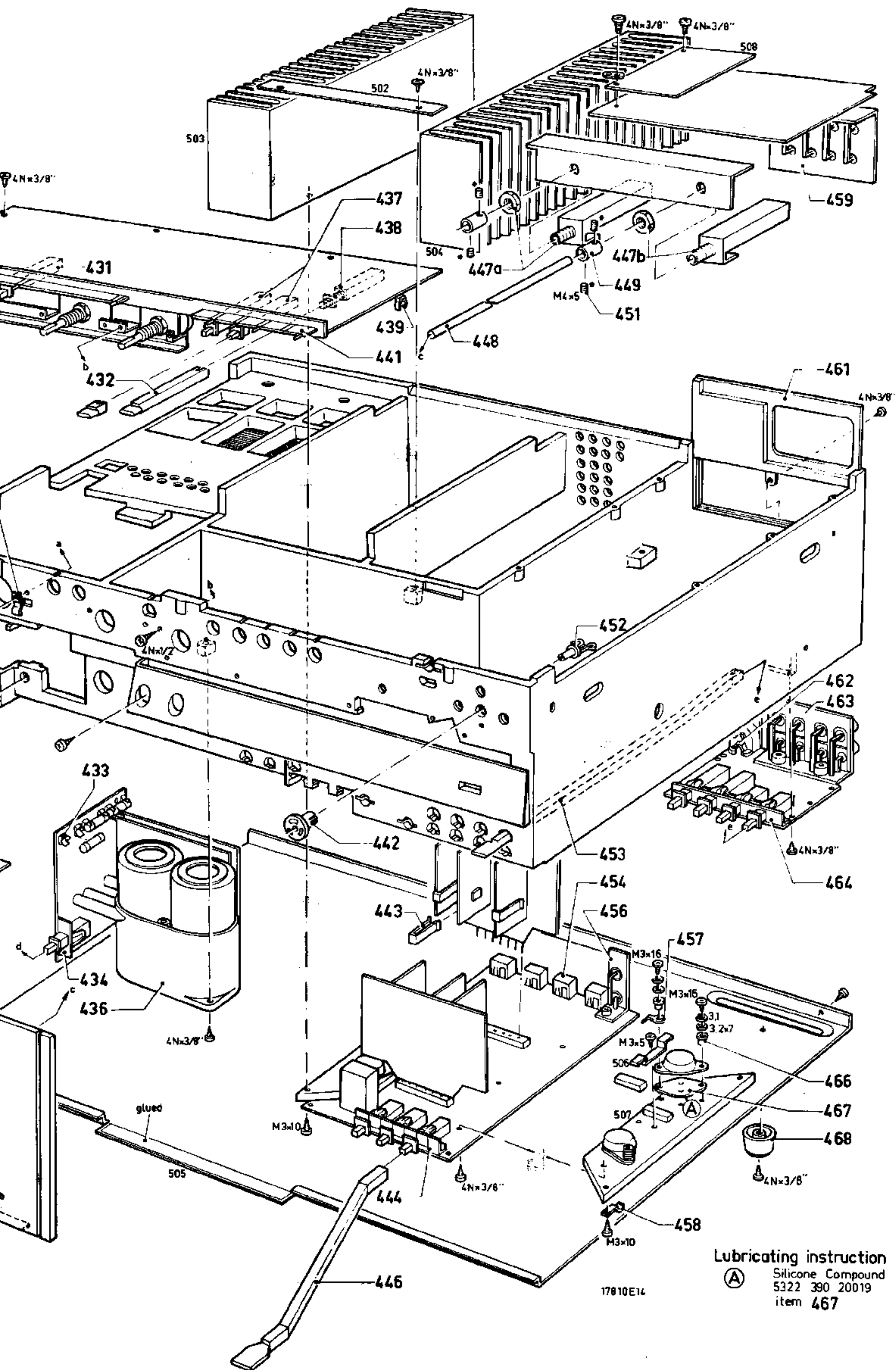


401	4822 532 51052	424	4822 256 90289	448	4822 535 91134
402	4822 426 40173	426	4822 410 22211	449	4822 404 10517
403	4822 413 51025	427	4822 492 62102	451	4822 502 11173
404	4822 458 50252	428	4822 267 30291	452	4822 256 90201
406	4822 426 50385	429	4822 267 30324	453	4822 404 20304
407	5322 500 14006	431	4822 276 10734	454	4822 267 30264
408	4822 532 10778	432	4822 410 22213	456	4822 267 30318
409	4822 413 40839	433	4822 492 60063	457	4822 290 30175
410	4822 413 40856	434	4822 276 10735	458	4822 267 62102
411	4822 413 40839	436	4822 404 20295	459	4822 267 50284
412	4822 413 40856	437	4822 276 20254	461	4822 454 10706
413	4822 413 40856	438	4822 276 10734	462	4822 267 40325
414	4822 404 20305	439	4822 256 30142	463	4822 267 50284
416	4822 413 40838	441	4822 256 90291	464	4822 276 40246
417	4822 256 90302	442	4822 520 30358	466	4822 532 51043
418	4822 532 10748	443	4822 492 61976	467	5322 466 90433
419	4822 505 10571	444	4822 276 30255	468	4822 462 71121
421	5322 492 60964	446	4822 410 30208		
422	4822 413 40838	447a	4822 273 60112		
423	4822 276 10734	447b	4822 273 80229		

SERVICE POSITION POWER P.C.B.



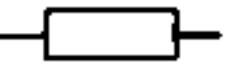




Lubricating instruction
 (A) Silicone Compound
 5322 390 20019
 item 467

-Miscellaneous-		
1015	Mainstransformer fuse in 1015	4822 146 20567
1017	Fuse 2,5 A.T.	4822 253 30026
6001,6004, 6005	LED CQY54-II	4822 130 31128

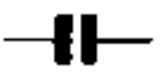
TONE CONTROL PANEL 1002

-Miscellaneous-		
1291-1294	Potmeter bal. vol. 2x20 k Ω +2x50 k Ω	4822 102 10146
1297-1300	Potmeter bass. treble 2x50 k Ω	4822 102 30316
1305	Fuse 315 mA.T.	4822 253 30014
-C- 		
Plate cap.		
2295,2296, 2349,2350	82 pF-2%-100 V-NP0	4822 122 31318
2355,2356, 2357	22 nF,-20+80%-63 V	4822 122 30103
Elco's		
2293,2294 2305,2306 2309-2312 2327-2330 2347,2348	10 μ F - 16 V	4822 124 40187
2353	330 μ F - 25 V	4822 124 40212
2354	1000 μ F - 40 V	4822 124 20795
Micro poco		
2323,2324	2,4 nF - 5%	5322 121 54054
2339,2340	5,6 nF - 5%	4822 121 50543
2345,2346	2,7 nF - 5%	5322 121 54065
-R- 		
3353,3354	100 k Ω - SFR25	4822 116 51123
-TS- 		
6291,6292 6295,6296 6299,6300 6297,6298	BC559	4822 130 40963
6304,6304 6309	BC548	4822 130 40938
6301,6302 6307,6308	BC558	4822 130 40941
-D- 		
6311	BY164	4822 130 30414
6314,6315 6320-6322 6324	LED CQY54-II	4822 130 31128

POWER PANEL 1440

-Miscellaneous-		
1450	Relay	4822 280 80384
2451,2452	Pol. cap. 100 nF 20%-100 V	4822 121 40334
3451-3454	SAF Res. SR25-75 Ω	4822 111 30454
3457-3460	W.W. Res. 0,22 Ω -4 W	4822 115 10043
3464	MET. Film SFR25-33 k Ω	4822 116 51217
3489,3490	N.T.C. 68 k Ω	4822 116 30188
5451,5452	Coil 4 μ H	4822 157 50718
-TS- 		
6451-6454	Pair 2SO424/2SB554	4822 130 41392
6457-6457	BC548	4822 130 40938
6460	BC546	4822 130 41001
6461	BC638	4822 130 41087
-D- 		
6465	BZX79/C18	4822 130 31024
6467,6468	BAW62	4822 130 30613
6470-6472 6469	BZX79/C12	4822 130 34197

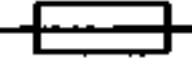
DRIVER PANEL 1441-1442

-C- 		
2500	680 pF-5% - Micro poco	5322 121 54171
2501,2507	270 pF-2%-100 V- N750	4822 122 31335
2503	56 pF-2%-63 V- N220	
2506	18 pF-2%-100 V- NP0	4822 122 31061
2508	100 nF-20%-250 V Plat cap.	4822 121 41161
2512,2513	47 nF-20%-100 V Pol. cap.	4822 121 40336
2516	100 μ F-63 V Elco	4822 124 20735
-R- 		
3508,3509 3522	SAF. Res. SR37-47 Ω Trim potm. 470 Ω	4822 111 30006 4822 100 10023
3548,3549 3552	SAF. Res. SR37-10 Ω	4822 111 30114
3550,3551	SAF. Res. SR25-1,5 Ω	4822 111 30217
-TS- 		
6500	BC556	4822 130 40989
6501,6502	BC556A	5322 130 44462
6504,6506, 6510	BC548	4822 130 40938
6507	2SD668	4822 130 41394
6511	BC558	4822 130 40941
6514,6515	Pair 2SD669/2SB649	4822 130 41393

-D- 		
6525	BZX79/C24	5322 130 34398
6527,6528	BZX79/C2V4	4822 130 31253
6530	BAX18	4822 130 34121

SUPPLY PANEL

1004

		
1570,1571	Fuse 4A.T.	4822 253 30038
1572	Fuse 1,6 A.T.	4822 253 30024

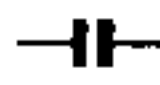
-C- 		
2570	100 nF-20%-250 V Pol. cap.	4822 121 40518
2571,2572	47 nF-20%-100 V Pol. cap.	4822 121 40336
2574	10000 µF-63 V	4822 124 20897

-D- 		
6570,6571	BYX72-300	5322 130 34262
6572,6573	BYX72-300R	5322 130 34261
6575	BY206	4822 130 30839

TONE MIC CONTROL PANEL

1007

-R- 		
1781-1784	Potm. Bass. treble 50 kΩ	4822 102 30316
1787	Potm. Micro 10 kΩ	4822 101 20543

-C- 		
2783,2784	820 pF-5% Micro poco	5322 121 54072
2794	100 pF-2% Plate cap.	4822 122 31081
2795	2.2 µF-63 V Elco	4822 124 20724

-TS- 		
6781,6782	BC548	4822 130 40938
6784,6788	BC558	4822 130 40941
6873	BC549B	4822 130 40936

SELECTOR PANEL

1008

1831	MD pre. amplifier	4822 218 10124
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-C- 		
2837,2838	1,5 µF-50 V	4822 124 20828
2845,2846	15 µF-25 V	4822 124 40204
2853,2854	10 µF-40 V	4822 124 40222

-TS- 		
6831,6832	BC559B	4822 130 44358
6833,6834	BC548B	4822 130 40937
6835	BC558	4822 130 40941

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

Servicemededeling

PHILIPS NEDERLAND B.V. - EINDHOVEN
TECHNISCHE SERVICE

422 PH

Type 22 AH 308

Datum mei 1981

Onderstaande wijzigingen zijn ingevoerd.

Panel 1441, driver.

	<u>Oud</u>	<u>Nieuw</u>	<u>Bestelnummer</u>
C 2500	680 pF	470 pF	5322 121 54078
C 2501	270 pF	180 pF▲▲j	
C 2503	56 pF	47 pF▲▲j	
C 2506	22 pF	18 pF▲▲j	

C 2509, 22 pF $\Delta\Delta$ j is toegevoegd tussen de voeding - 2 en de collector van TS 6506.

Paneel 1002, klankregeling.

Het "hogetonenfilter" is gewijzigd, SKH9 -11 en SKH 10 -12 zijn toegevoegd (fig 1a-b)

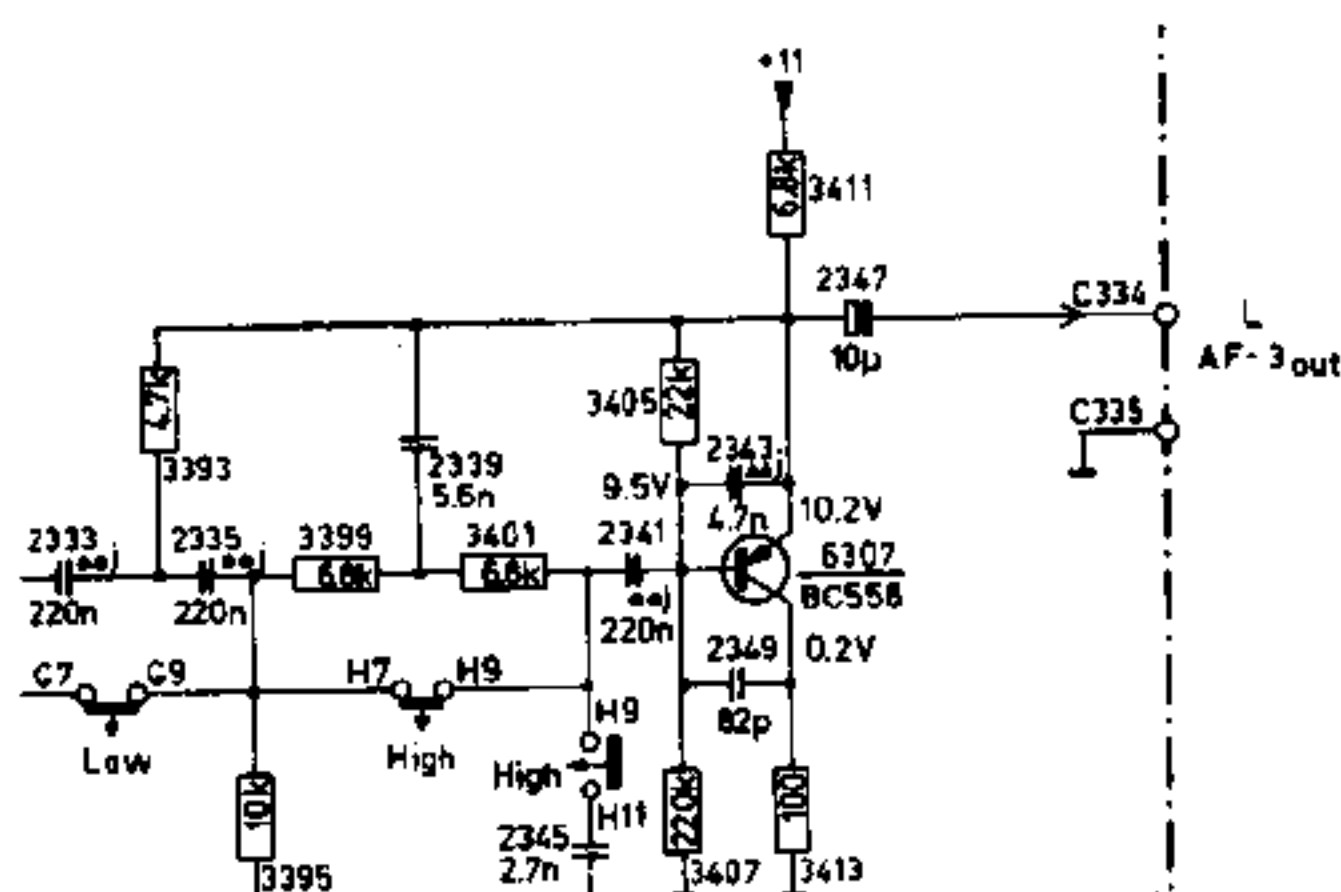


Fig. 1a

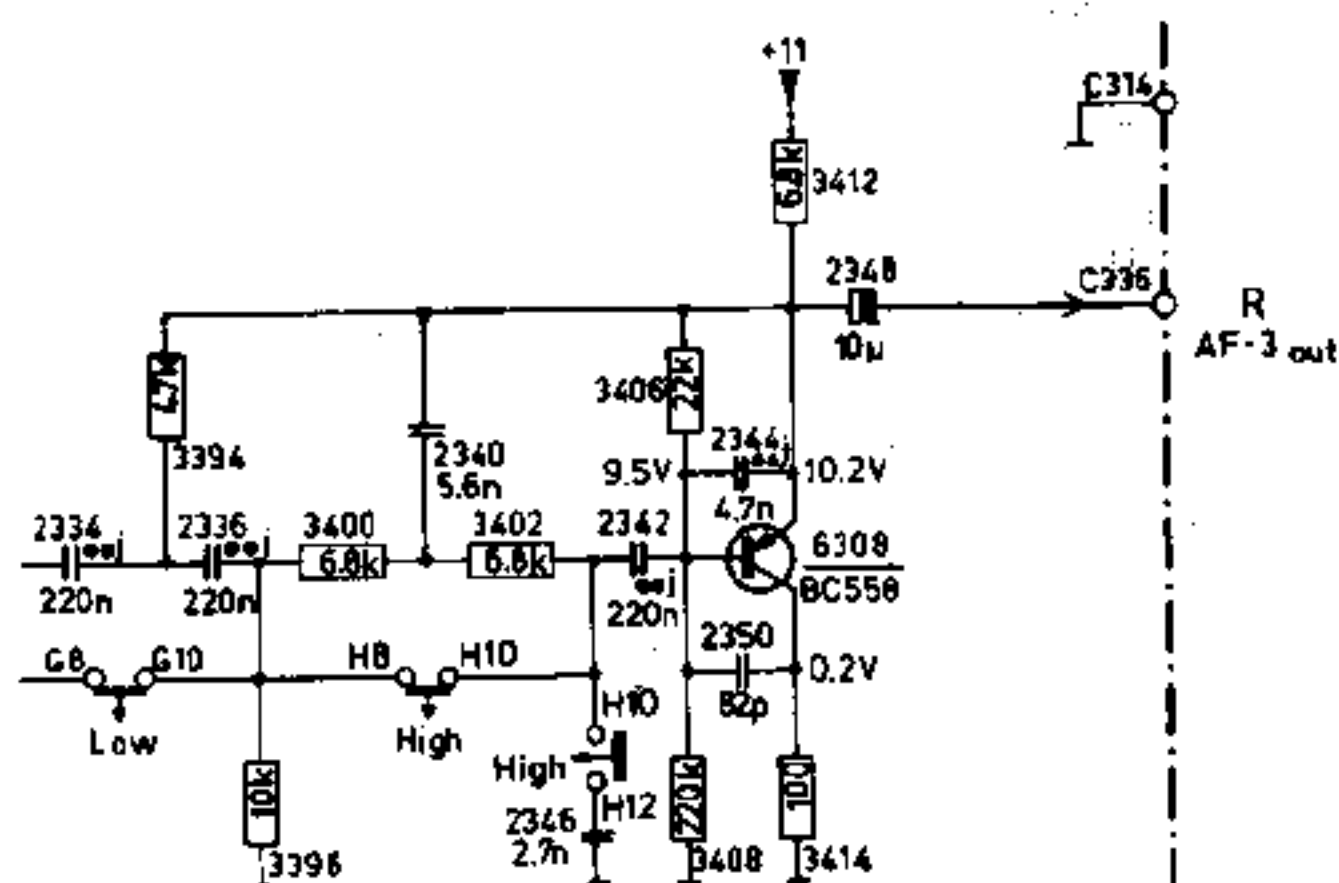


Fig. 1b

TS.6309 is gewijzigd in BC 338, bestelnummer 4822 130 44121.

Ter voorkoming van schakelklikken bij het indrukken van de muteschakelaar (-20dB), moeten C 2305 en C 2306 worden vervangen door een elco van 15 uF, 16 V bestelnummer 4822 124 20883.



Service mededeling

PHILIPS NEDERLAND B.V. - EINDHOVEN
TECHNISCHE SERVICE

Ref. 466 PH

Tm 22AH307;22AH308;22AH708

Datum september 1981

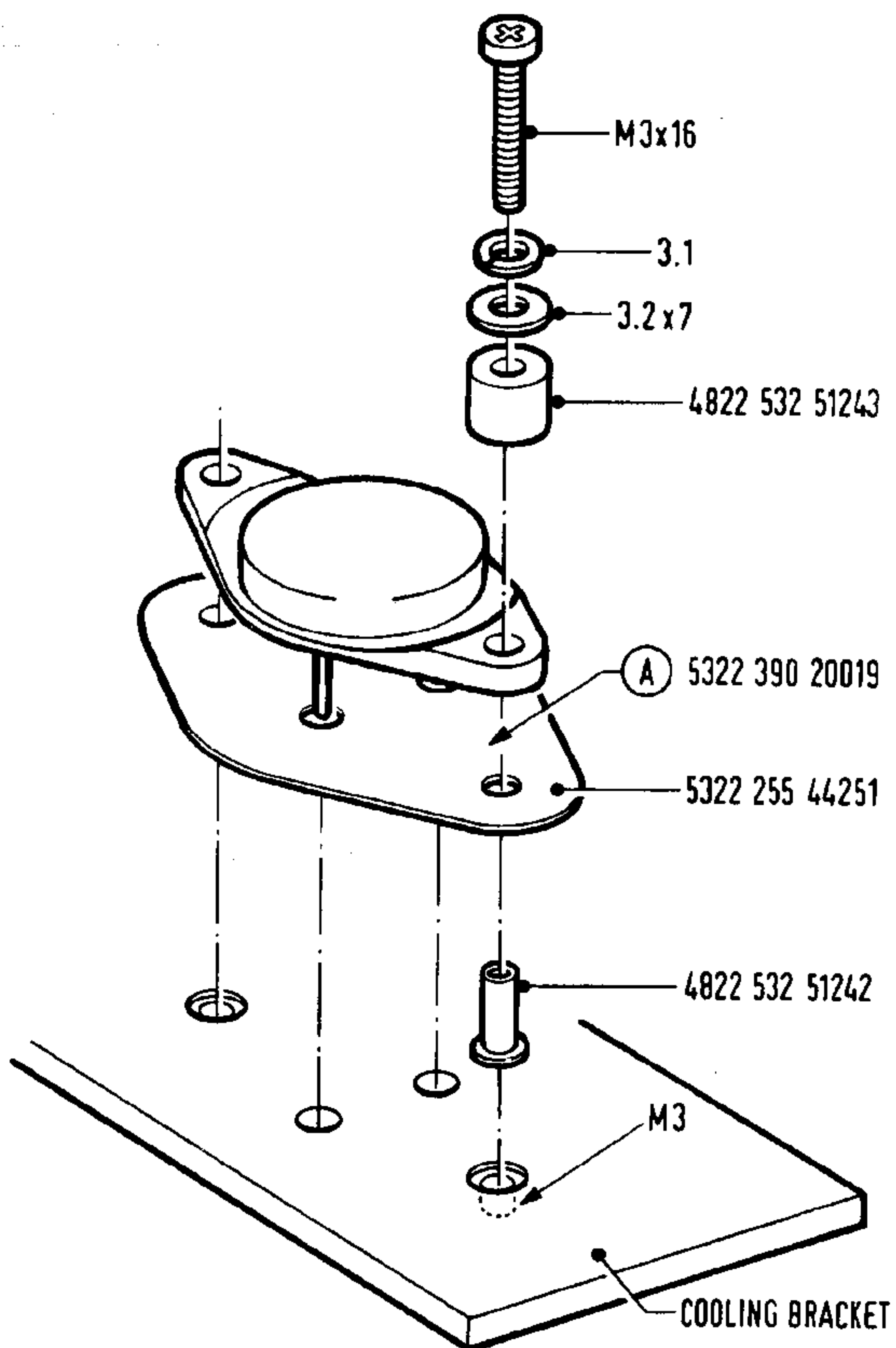
Wijzigingen:

- . de montage van de vermogenstransistors TS 6451, TS 6452, TS 6453 en TS 6454 moet geschieden zoals fig. 1. aangeeft.
- . het bestelnummer van het micaplaatje moet zijn: 5322 255 44251.

Toevoegen:

- . het bestelnummer voor het isolatiebusje is 4822 532 51242
- . het bestelnummer voor de isolatiering is 4822 532 51243





24565 B6

Fig. 1