Service
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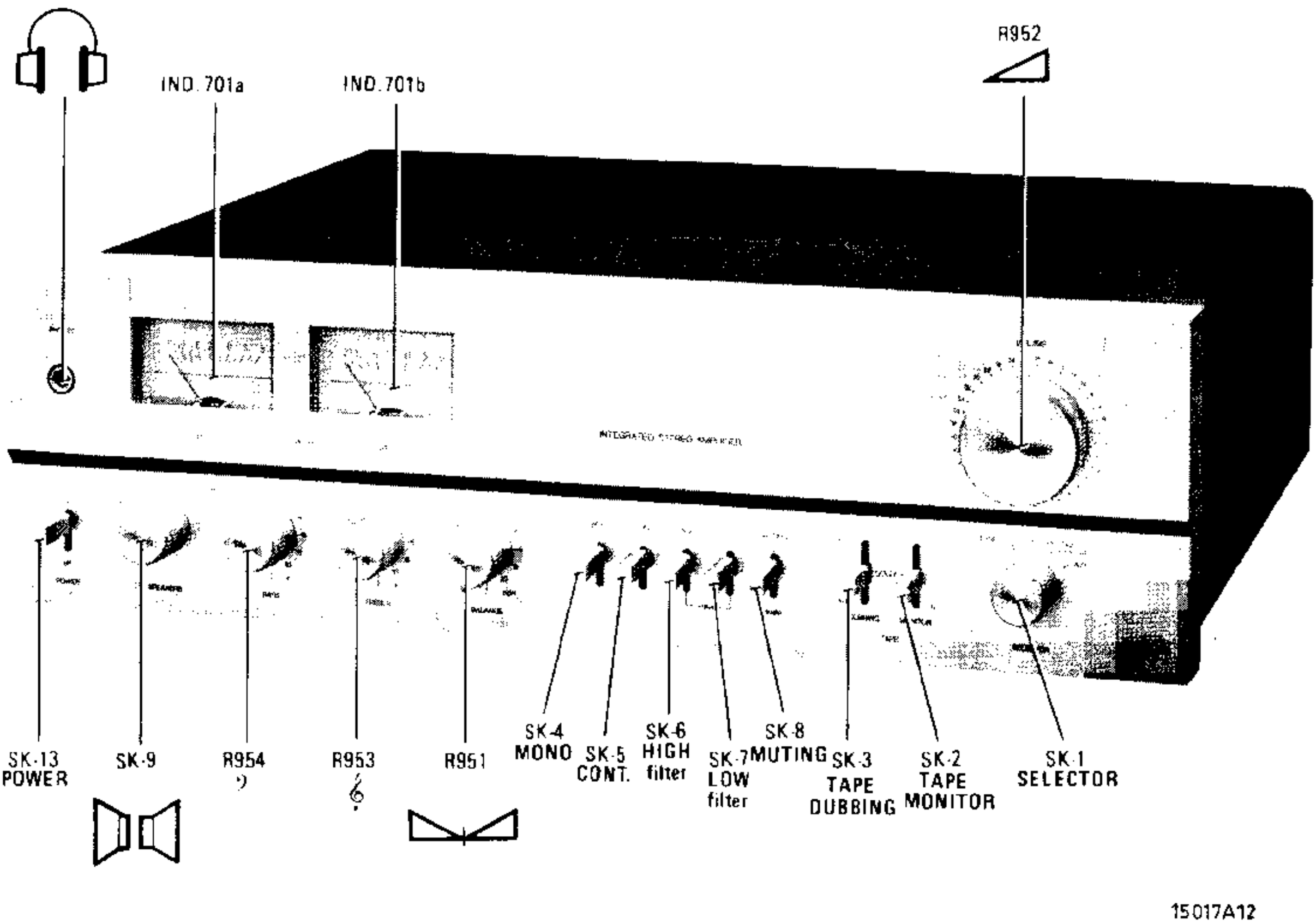
Service Manual



DocumentationTechnique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

Subject to modification

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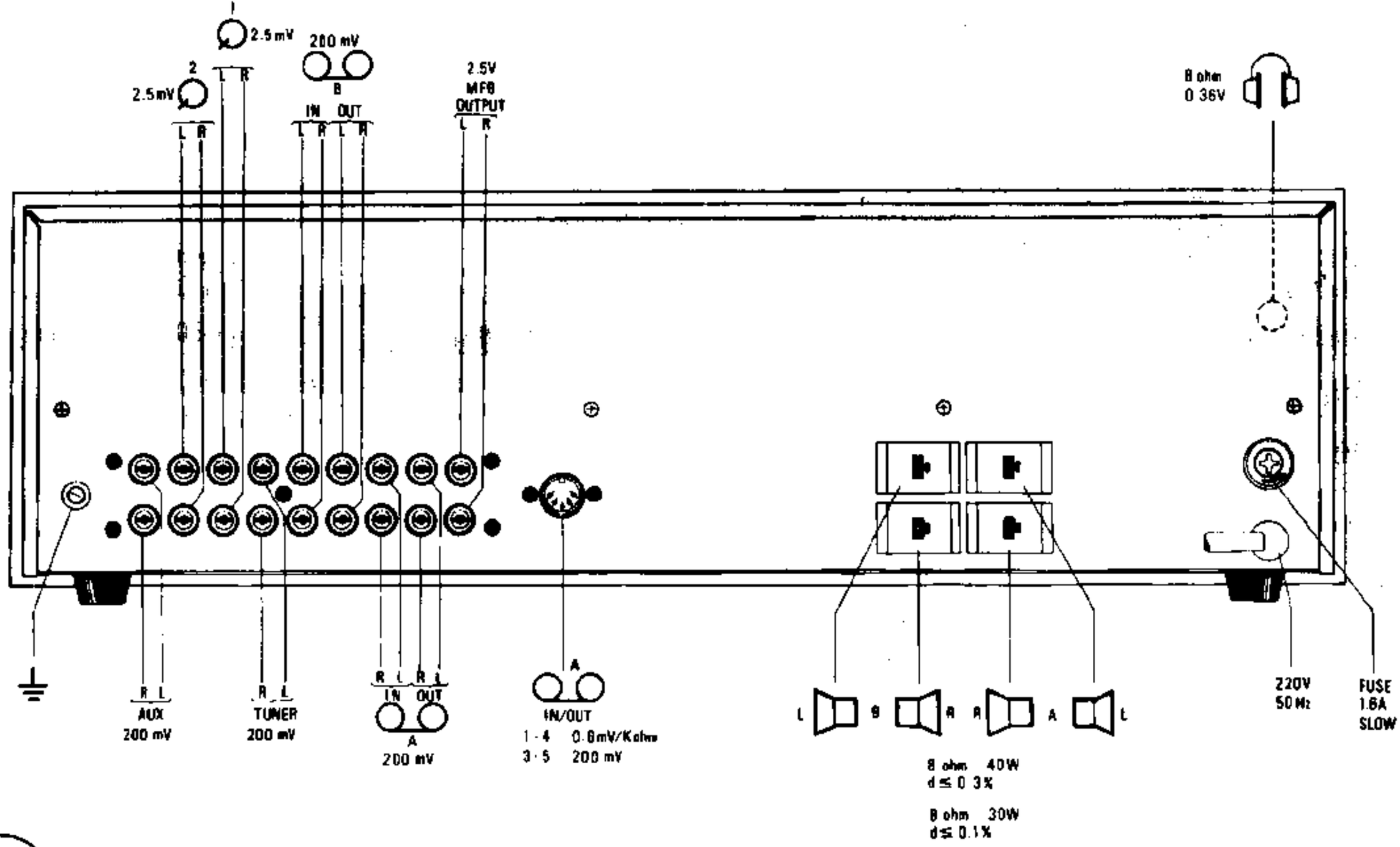
PHILIPS



(GB) SPECIFICATIONS

Power output	: 2x45 W (4 Ω) d ⩽ 0.3 %
Power band width d ⩽ 0.3 %	: 10 - 40.000 Hz
Harmonic distortion at 30 W (8 Ω)	: 0.1 %
Intermodulation distortion (acc. to IHF 60-7000 Hz 4:1) at 20 W (8 Ω)	: 0.1 %
Frequency response	: 20 - 20.000 Hz
Stereo separation 100 Hz	: 45 dB
1 kHz	: 50 dB
10 kHz	: 40 dB
Signal-tc-noise ratio Phono 1,2	: 60 dB
Aux./Tuner	: 80 dB
Output impedance Loudspeaker	: 4-16 Ω
Headphone	: 8 Ω
Dimensions	: 480x150x380 mm

(NL) SPECIFICATIES

Uitgangsvermogen	: 2x45 W (4 Ω) v ⩽ 0,3 %
Vermogensbandbreedte v ⩽ 0,3 %	: 10 - 40.000 Hz
Harmonische vervorming bij 30 W (8 Ω)	: 0,1 %
Intermodulatie (acc. IHF 60-7000 Hz 4:1) bij 20 W (8 Ω)	: 0,1 %
Frequentiebereik	: 20 - 20.000 Hz
Kanaalscheiding 100 Hz	: 45 dB
1 kHz	: 50 dB
10 kHz	: 40 dB
Signaal/ruisverhouding Phono 1, 2	: 60 dB
Aux, Tuner	: 80 dB
Uitgangsimpedantie Luidspreker	: 4-16 Ω
Hoofdtelefoon	: 8 Ω
Afmetingen	: 480x150x380 mm

(F) CARACTERISTIQUES TECHNIQUES

Puissance de sortie	: 2x45 W (4Ω) d ⩽ 0,3 %
Bande passante en puissance d ⩽ 0,3 %	: 10 - 40.000 Hz
Distorsion harmonique à 30 W (8 Ω)	: 0,1 %
Distorsion intermodulatoire (IHF 60-7000 Hz 4:1) à 20 W (8 Ω)	: 0,1 %
Courbe amplitude/fréquence	: 20 - 20.000 Hz
Séparation en stéréo 100 Hz	: 45 dB
1 kHz	: 50 dB
10 kHz	: 40 dB
Rapport signal/bruit Phono 1, 2	: 60 dB
Aux, Tuner	: 80 dB
Impédance de sortie Haut-parleur	: 4-16 Ω
Casque d'écouté	: 8 Ω
Dimensions	: 480x150x380 mm

(D) TECHNISCHE DATEN

Ausgangsleistung	: 2x45 W (4 Ω) k ⩽ 0,3 %
Leistungsbandbreite k ⩽ 0,3 %	: 10 - 40.000 Hz
Klirrgrad bei 30 W (8 Ω)	: 0,1 %
Intermodulationsgrad (IHF 60-7000 Hz 4:1) bei 20 W (8 Ω)	: 0,1 %
Übertragungsbereich	: 20 - 20.000 Hz

Überspechdämpfung	100 Hz	: 45 dB
	1 kHz	: 50 dB
	10 kHz	: 40 dB
S/R-Verhältnis		
Phono 1, 2		: 60 dB
Aux, Tuner		: 80 dB
Ausgangsimpedanz		
Lautsprecher		: 4-16 Ω
Kopfhörer		: 8 Ω
Abmessungen		: 480x150x380 mm

(I) DATA TECNIC

Potenza d'uscita	: 2x45 W (4 Ω) d ⩽ 0,3 %
Banda di potenza d ⩽ 0,3 %	: 10 - 40.000 Hz
Distorsione armonica a 30 W (8 Ω)	: 0,1 %
Intermodulazione (IHF 60-7000 Hz 4:1) a 20 W (8 Ω)	: 0,1 %
Risposta in frequenza	: 20 - 20.000 Hz

Separazione stereo	100 Hz	: 45 dB
	1 kHz	: 50 dB
	10 kHz	: 40 dB
Rapporto segnale/disturbo		
Phono 1, 2		: 60 dB
Aux, Tuner		: 80 dB
Impedenza d'uscita		
Altoparlante		: 4-16 Ω
Cuffia		: 8 Ω
Dimensioni		: 480x150x380 mm

(S) TEKNISKA DATA

Uteffekt	: 2x45 W (4 Ω) d ⩽ 0,3 %
Effekt bandbredd d ⩽ 0,3 %	: 10 - 40.000 Hz
Harmonisk distorsion vid 30 W (8 Ω)	: 0,1 %
Intermodulation (IHF 60-7000 Hz 4:1) vid 20 W (8 Ω)	: 0,1 %
Frekvensomfång	: 20 - 20.000 Hz

Kanalseparation	100 Hz	: 45 dB
	1 kHz	: 50 dB
	10 kHz	: 40 dB
Signal/brusför hållande		
Phono 1, 2		: 60 dB
Aux, Tuner		: 80 dB
Impedans		
Högtalare		: 4-16 Ω
Hörtelefon		: 8 Ω
Dimensioner		: 480x150x380 mm

(DK) TEKNISKE DATA

Udgangseffekt	: 2x45 W (4 Ω) f ⩽ 0,3 %
Effektbåndbredde f ⩽ 0,3 %	: 10 - 40.000 Hz
Harmonisk for vrængning ved 30 W (8 Ω)	: 0,1 %
Intermodulation (IHF 60-7000 Hz 4:1) ved 20 W (8 Ω)	: 0,1 %
Frekvens område	: 20 - 20.000 Hz

Stereo separation	100 Hz	: 45 dB
	1 kHz	: 50 dB
	10 kHz	: 40 dB
Signal/støjforhold		
Phono 1, 2		: 60 dB
Aux, Tuner		: 80 dB
Udgangsimpedans		
Højttaler		: 4-16 Ω
Hovedtelefoner		: 8 Ω
Dimensioner		: 480x150x380 mm

(N) TEKNISKE DATA

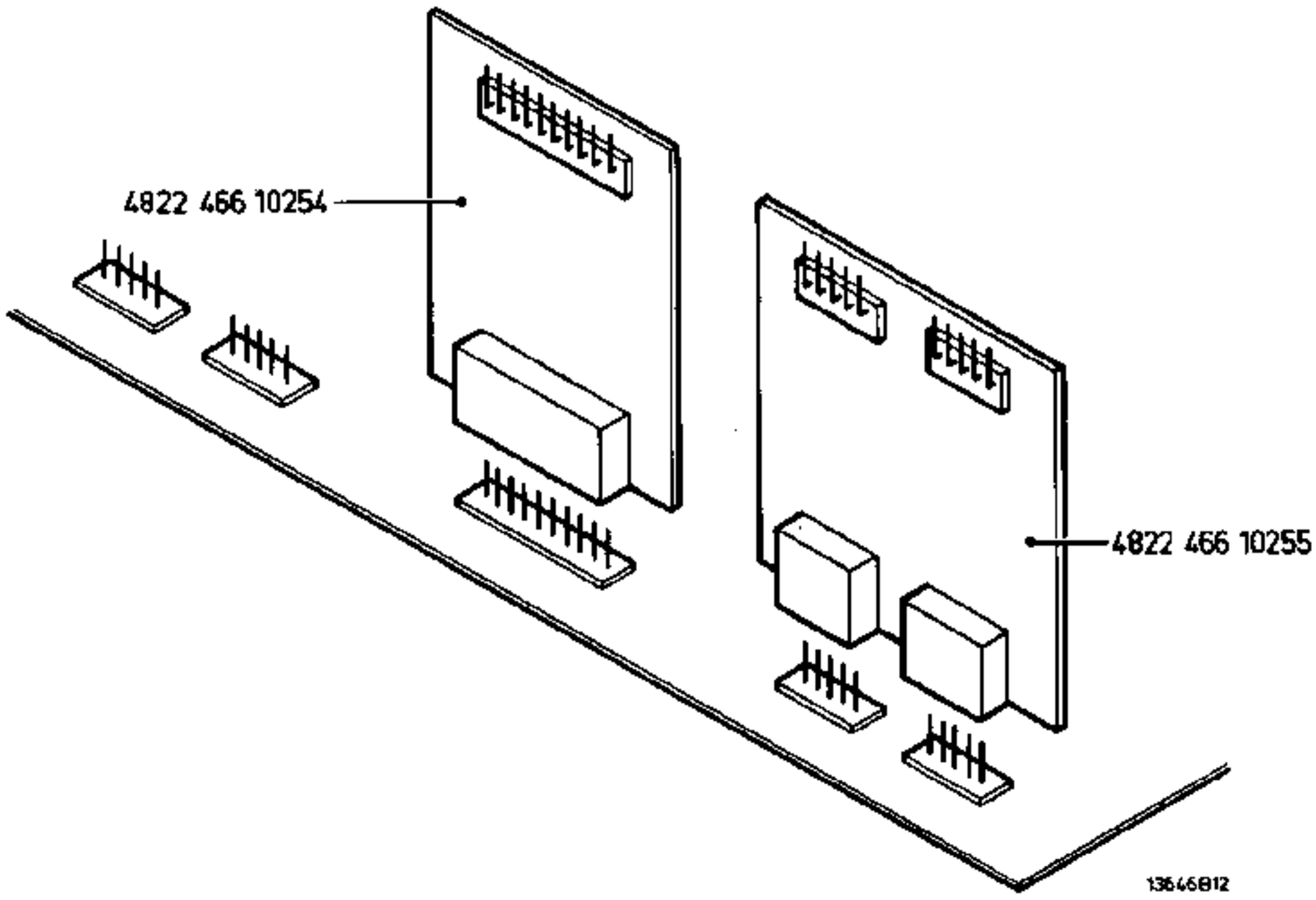
Utgangseffekt	: 2x45 W (4 Ω) f ⩽ 0,3 %
Effektbåndbredde f ⩽ 0,3 %	: 10 - 40.000 Hz
Harmonisk forvrengning ved 30 W (8 Ω)	: 0,1 %
Intermodulasjon (IHF 60-7000 Hz 4:1) ved 20 W (8 Ω)	: 0,1 %
Frekvensområde	: 20 - 20.000 Hz

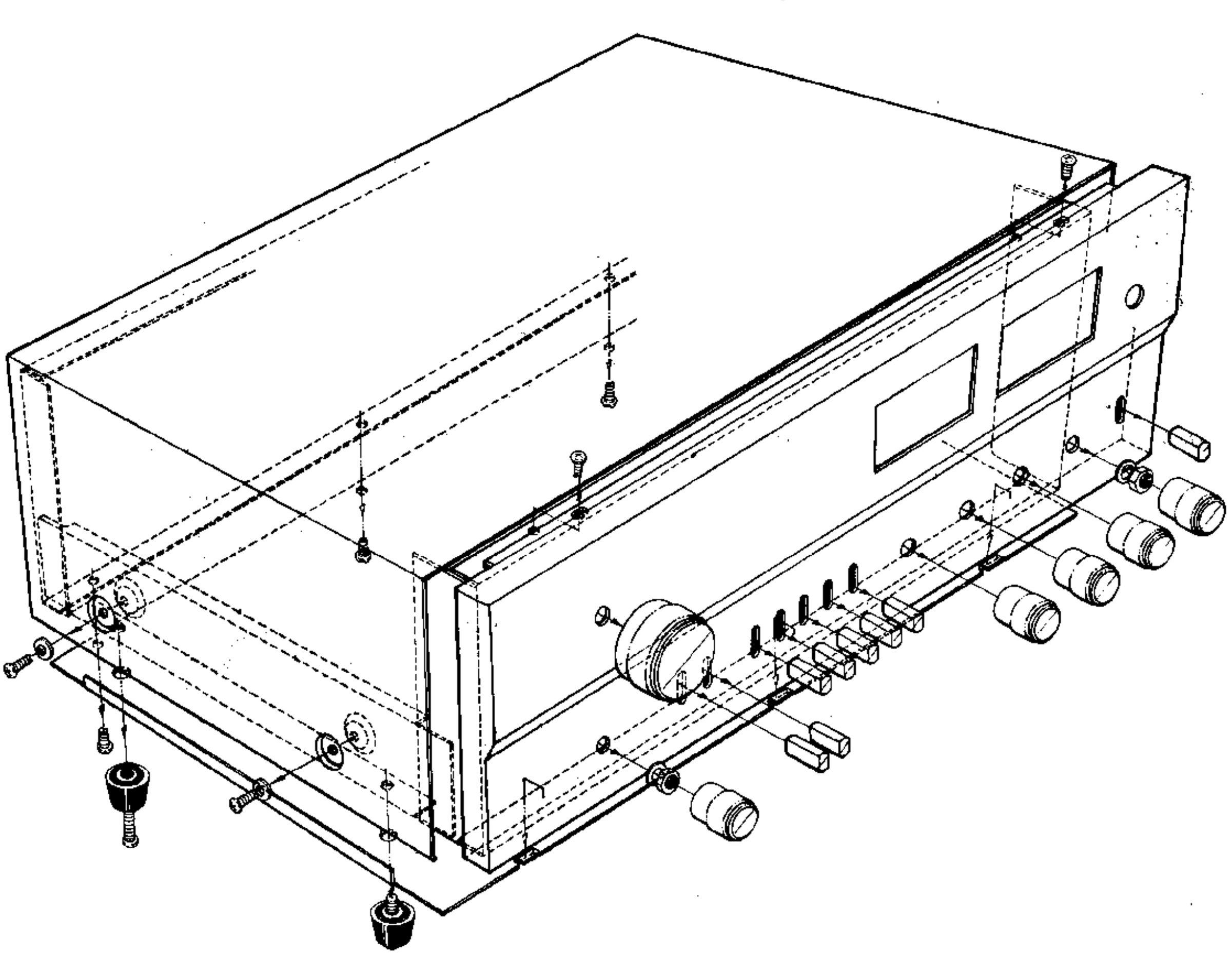
Stereoseparasjon	100 Hz	: 45 dB
	1 kHz	: 50 dB
	10 kHz	: 40 dB
Signal/støy-forhold		
Phono 1, 2		: 60 dB
Aux, Tuner		: 80 dB
Utgangsimpedans		
Høyttaler		: 4-16 Ω
Hodetelefoner		: 8 Ω
Dimensjoner		: 480x150x380 mm

(SF) TEKNISET TIEDOT

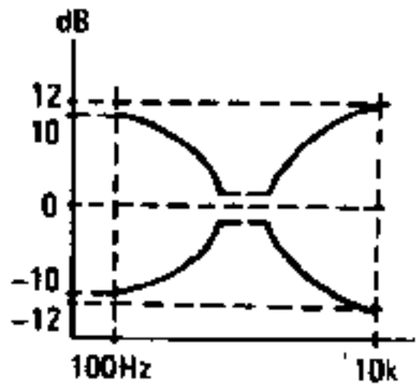
Lähtöteho	: 2x45 W (4 Ω) s ⩽ 0,3 %
Tehokaista s ⩽ 0,3 %	: 10 - 40.000 Hz
Harmoninen särö 30 W (8 Ω)	: 0,1 %
Keskeismodulaatio (IHF 60-7000 Hz 4:1) 20 W (8 Ω)	: 0,1 %
Toistoalue	: 20 - 20.000 Hz

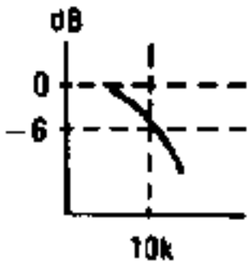
Kanavaerotus	100 Hz	: 45 dB
	1 kHz	: 50 dB
	10 kHz	: 40 dB
Signaalikohinasuhde		
Phono 1, 2		: 60 dB
Aux, Tuner		: 80 dB
Lähtöimpedanssi		
Kaiutin		: 4-16 Ω
Kuulokkeet		: 8 Ω
Mitat		: 480x150x380 mm



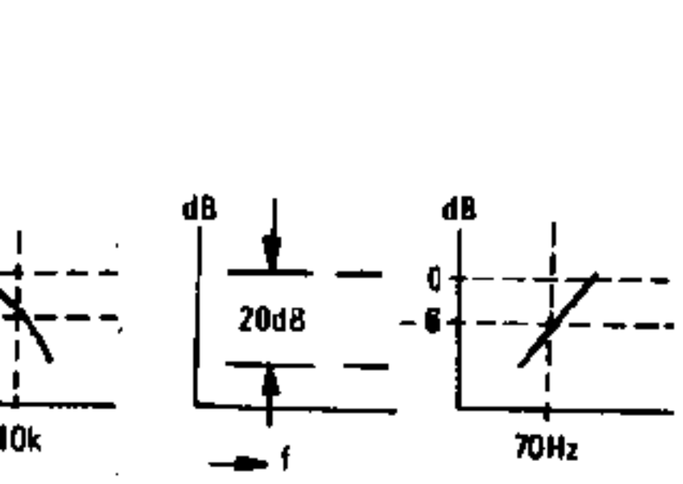


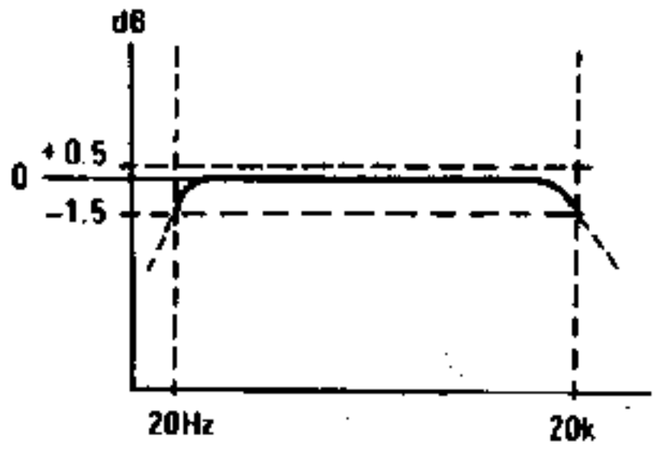
TUNER
2 mV
RIAA
dB
f
IC501a
AUX
1
2
TAPE DUB
1
2
MONO/STEREO
TUNER
2 mV
RIAA
dB
f
TS501b
AUX
1
2
TAPE DUB
1
2


dB
12
10
0
-10
-12
100Hz
10k


dB
0
-6
10k

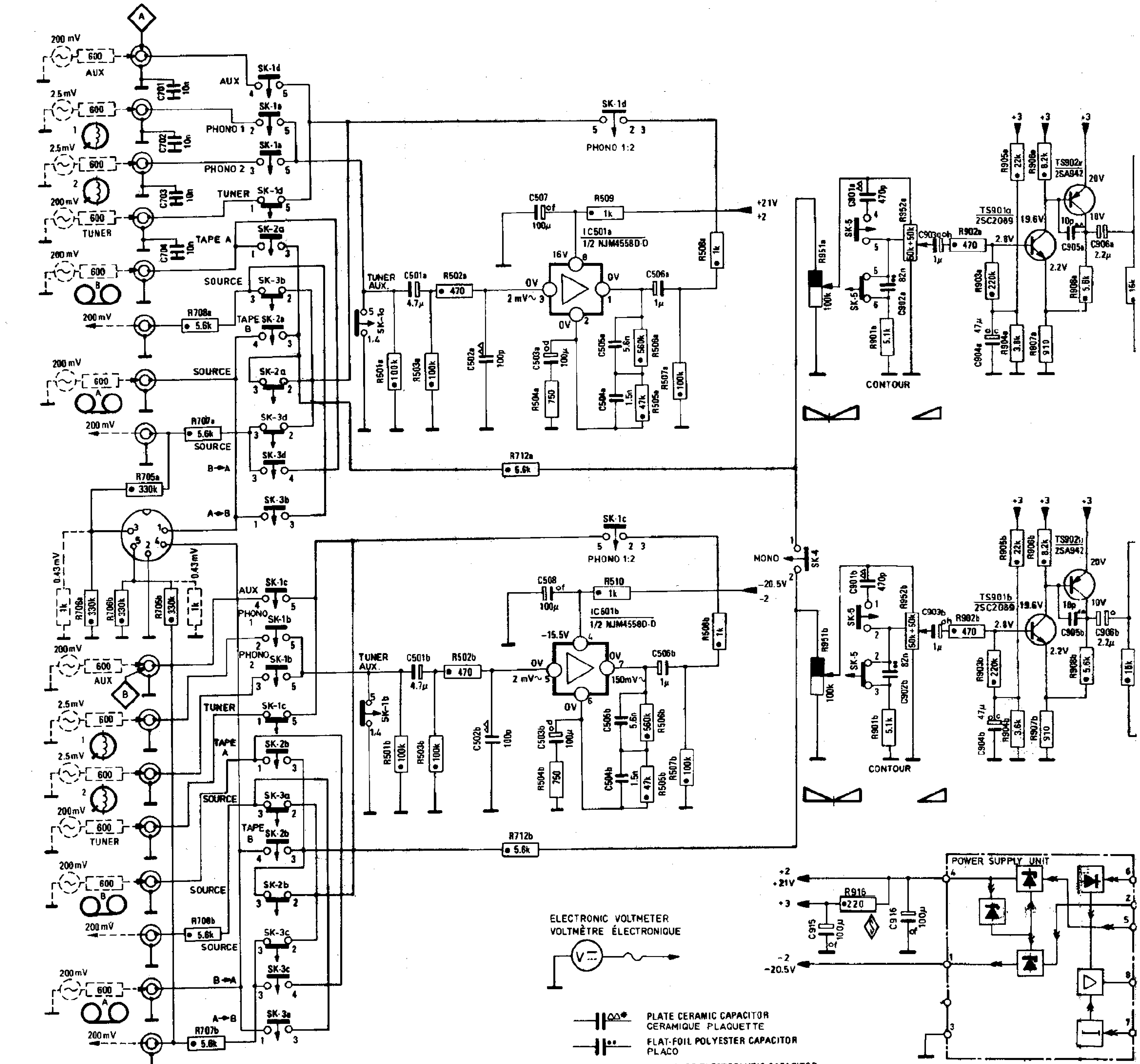
CONTOUR
R951a
10kHz + 5dB
100Hz +10dB
R952a
TS901a
TS902a
R954a
R953a
TS903a
TS904a
HIGH
TS805
TS806
TS801
TS802
D802
D001
TS807
TS808
TS803
TS804
RE851
R804
C802
SK11
SK12
D851
D854
R951b
CONTOUR
10kHz + 5dB
100Hz +10dB
R952b
TS901b
TS902b
R954b
R953b
TS903b
TS904b
HIGH


dB
20dB
f
dB
0
-6
70Hz
10k


dB
0
+0.5
-1.5
20Hz
20k

TS604a
TS651a
TS605a TS606a
TS653a
TS607a
TS652a
HIGH
MUTING
LOW
0
20dB
TS601a
TS602a
TS603a
SPEAKER RELAY
8Ω
60W
D ≤ 0.3%
IND.701a
8 - 16 Ω
MFB OUTPUT
TS604b
TS651b
TS605b TS606b
TS653b
TS607b
TS652b
HIGH
MUTING
LOW
0
20dB
TS601b
TS602b
TS603b
IND.701b
MFB OUTPUT
15021D12

M	SK-1 SK-2 SK-3 IC501a SK-4 SK-5 TS901a TS902a
M	IC501b TS901b TS902b
M	
C	701–704 501a 502a 507 503a 504a–506a 951a 901a–903a 904a–906a
C	501b 502b 508 503b 504b–506b 951b 901b–903b 904b–906b
C	915 916
R	708a 707a 501a–503a 712a 504a 505a–507a 509 901a 952a 902a–908a
R	705a 708b 707b 501b–503b 712b 504b 505b–509b 510 901b 952b 902b–908b
R	706a 706b 705b 916



THE CIRCUIT IS DRAWN IN POSITION TUNER
LE CIRQUIT EST DESSINEE EN POSITION TUNER

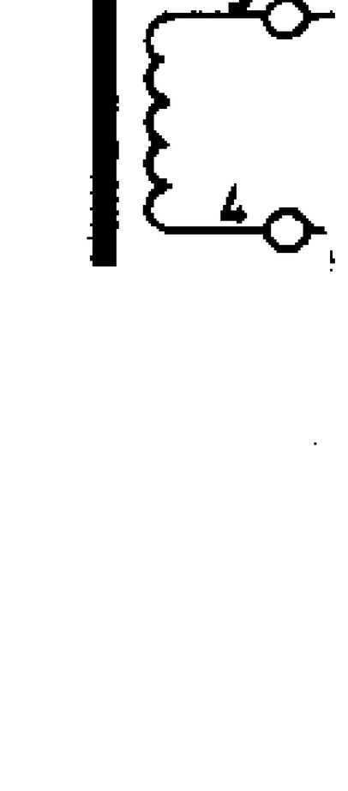
PLATE CERAMIC CAPACITOR
CERAMIQUE PLAQUETTE

FLAT-FOIL POLYESTER CAPACITOR
PLACO

MINIATURE ELECTROLYTIC CAPACITOR
CHIMIQUE MINIATURE

CARBON RESISTOR E24 SERIES 0.25W 5%
RÉSISTANCE CARBONNE SERIE E24 0.25W

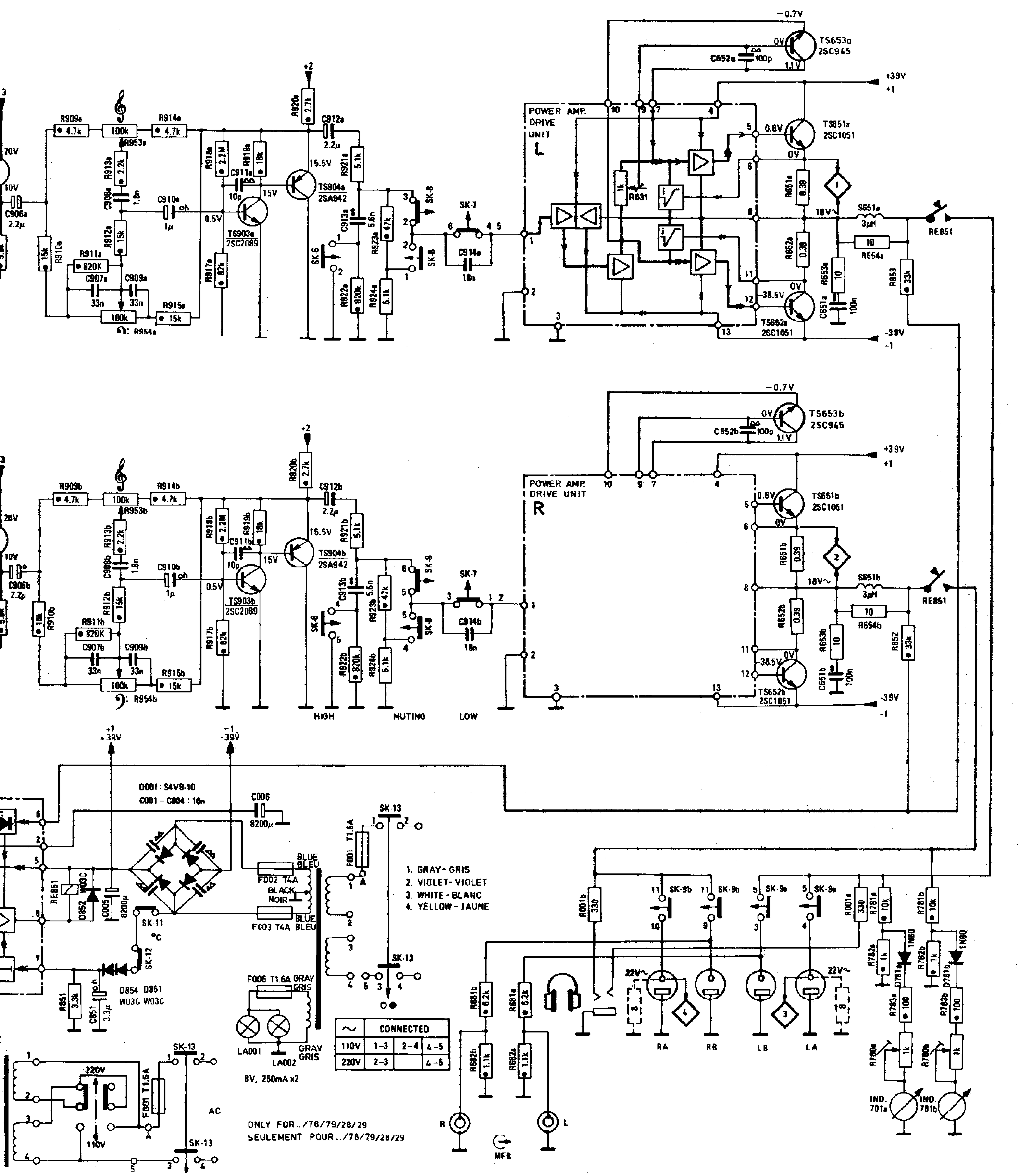
* c = 6.3V h = 63V
d = 10V j = 100V
e = 16V r = 250V
f = 25V u = 400V
g = 40V



SK Input selector Speaker selector	Signal to		Trimming point	Adjust	Indication
Aux SPEAKERS off	No signal		Volume min.	R681 (R ch.) R681 (L ch.)	⟨2⟩ 14 mV ± 2 mV⎓ ⟨1⟩ 14 mV ± 2 mV⎓
Aux SPEAKERS A	1 kHz 200 mV	⟨A⟩ ⟨B⟩	[1] Volume	R780a (L ch.) R780b (R ch.)	Adjust for 0 dB reading on Ind. 701a and 701b

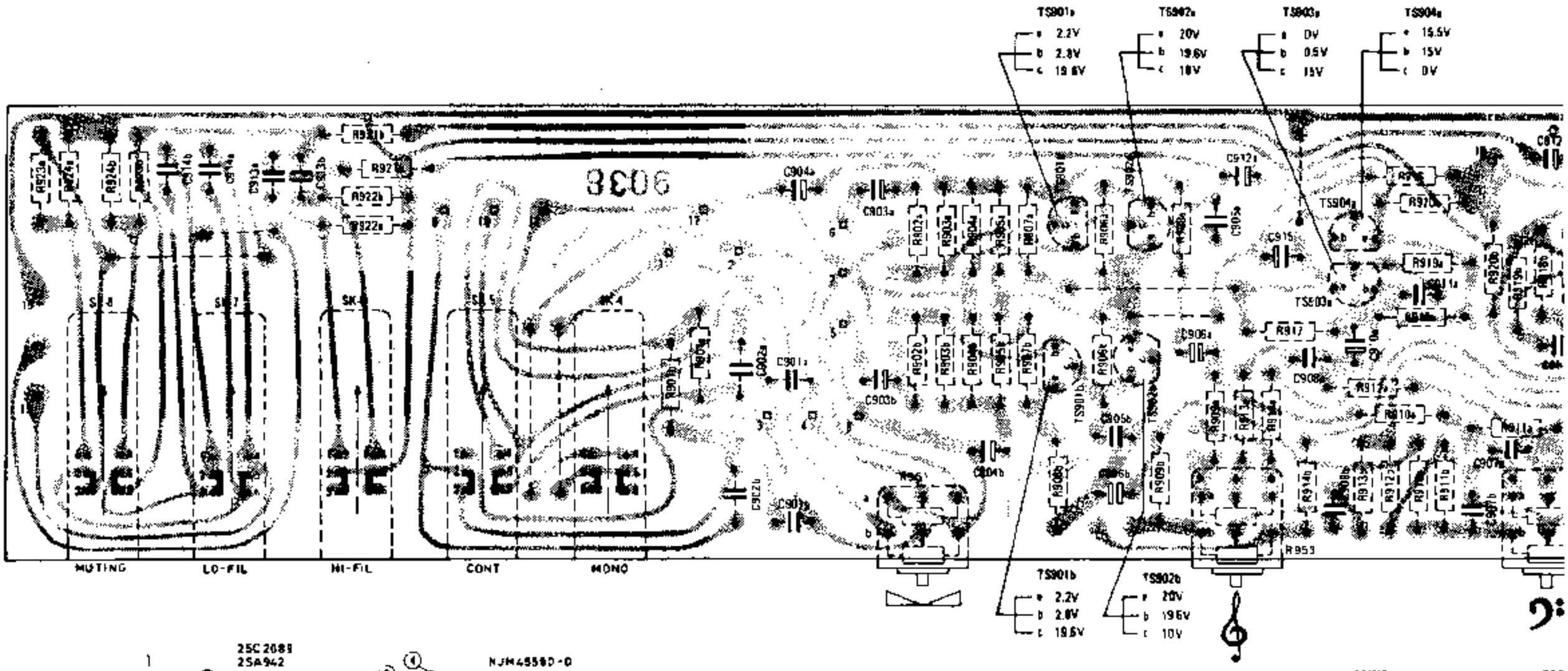
[1] : Set ⟨3⟩ and ⟨4⟩ to 10 V~

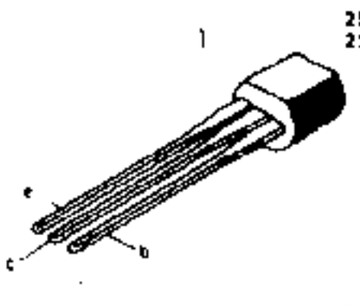
TS903a TS904a SK-8 SK-8 SK-7 TS651a – TS653a S651a	M
D854 SK-11 SK-12 TS903b TS904b F006 TS651b – TS653b S651b D781b IND.701b	M
RE851 D852 D851 D001 LA001 LA002 F001 – F003 SK-13 SK-9 D781a IND.701a	M
907a – 910a 911a 912a 913a 914a 651a	C
907b – 910b 911b 912b 913b 914b 651b	C
851 005 001 – 004 006	C
909a – 913a 953a 954a 914a 915a 917a – 924a 651a – 654a 853	R
909b – 913b 953b 954b 914b 915b 917b – 924b 651b – 654b 852	R
851 681b 682b 681a 682a 001b 001a 780a – 783a 780b – 783b	R

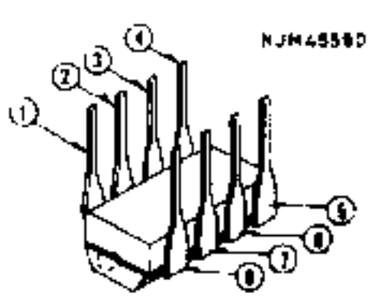


15025E12

M	SK-8	SK-7	SK-6	SK-5	SK-4	TS901a TS901b TS902b TS902a	TS903a TS904a	T
C	914b 914a	913a 913b	904a	903a	905a 912a 915 906a 910a 911a	912b
C						
R	923a 924a 924b 923b	921b 921a	902a - 905a 907a 908a 908a 909a 913a 914a 917	912a 916 918a - 928a	927b - 9
R	922a 922b	901b 901a	951 902b - 906b 907b 908b 909b 953	910a - 914b 918a	911a 954





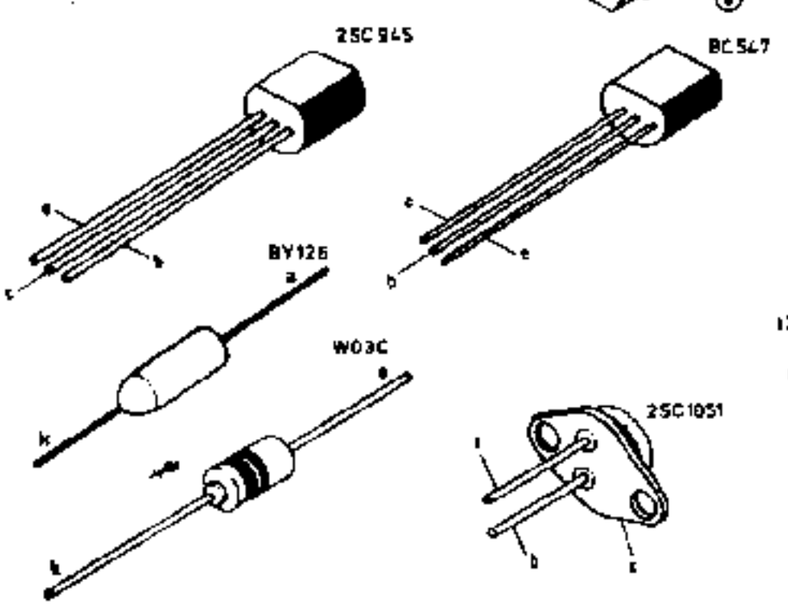


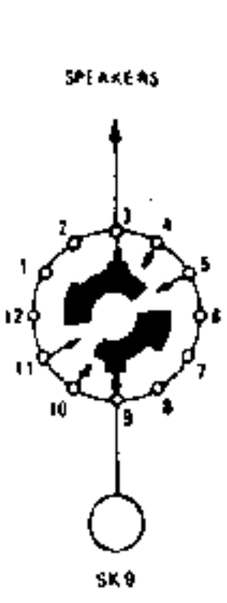
SPEAKERS	LEFT	RIGHT
A	4	10
B	3	9
COMM	5	11

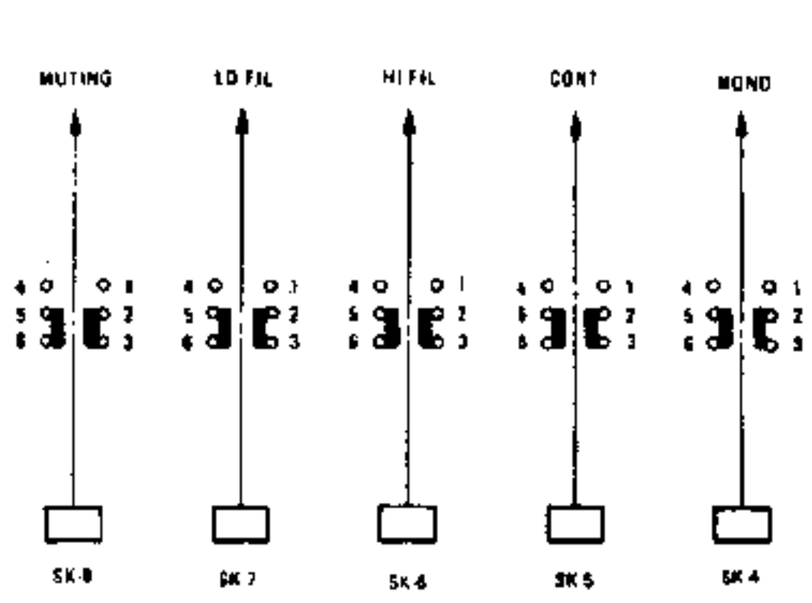
TAPE DUBBING	
1	A → B
2	SOURCE
3	COMMON
4	B → A
5	NOT USED

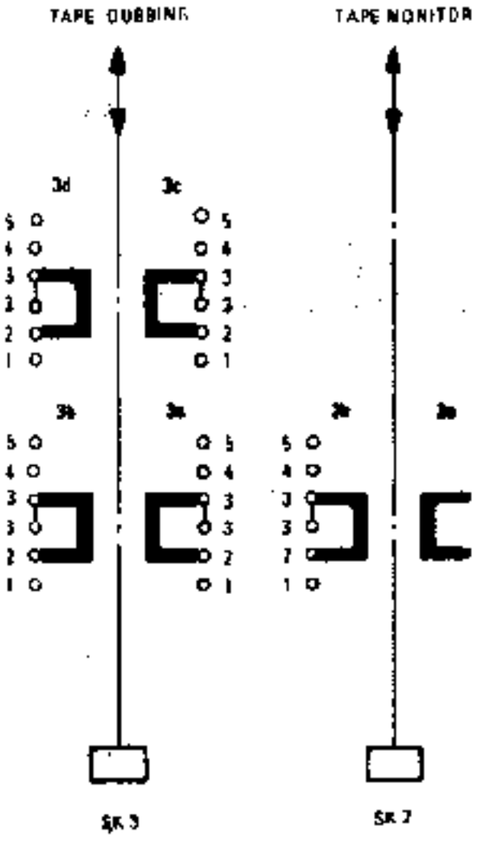
TAPE MONITOR	
1	TAPE A
2	SOURCE
3	COMMON
4	TAPE B
5	NOT USED

SELECTOR	
1	TUNER
2	PHONO 1
3	PHONO 2
4	AUX
5	COMMON

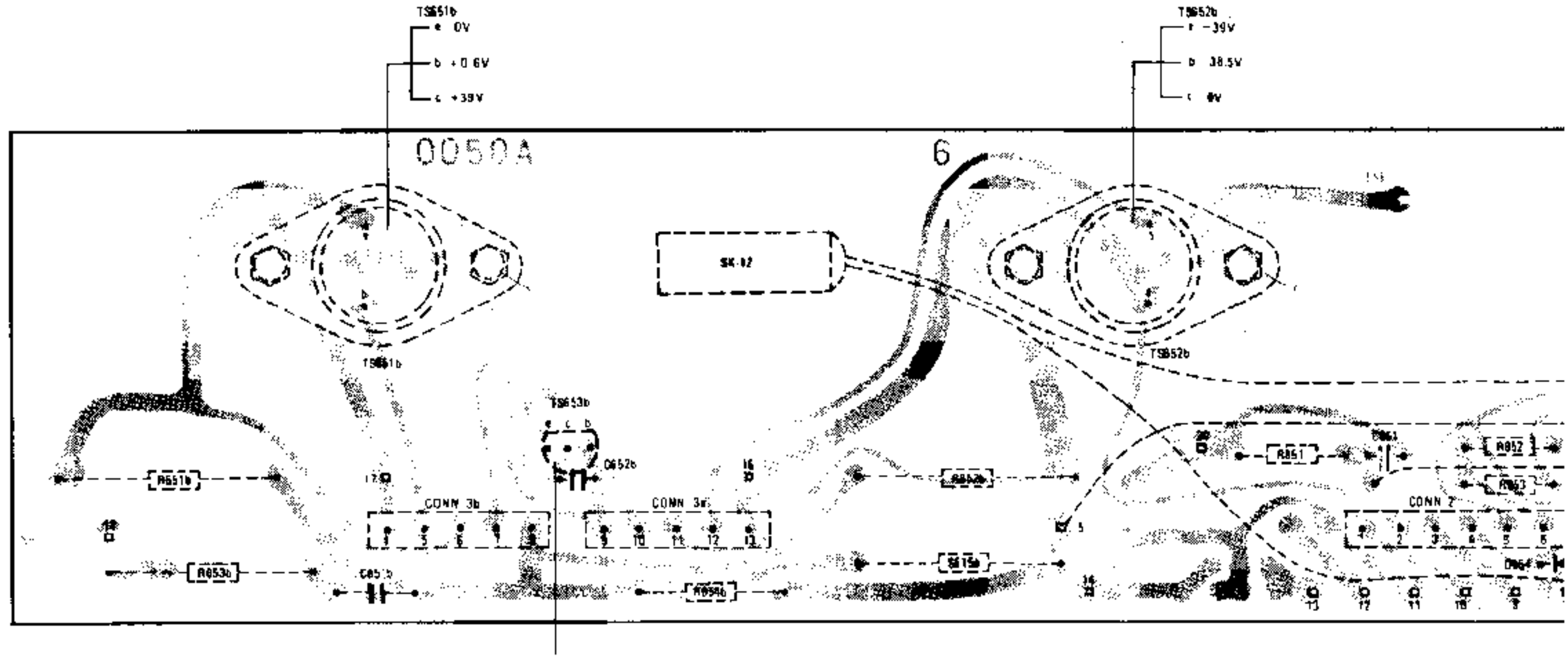






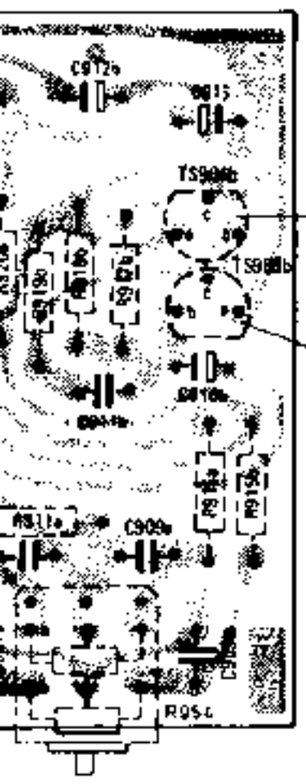


M	TS651b	TS653b	SK-12	TS651b	TS652b		0
C	651b	652b				651	
R	951b 653b	654b	652b	651	652	653



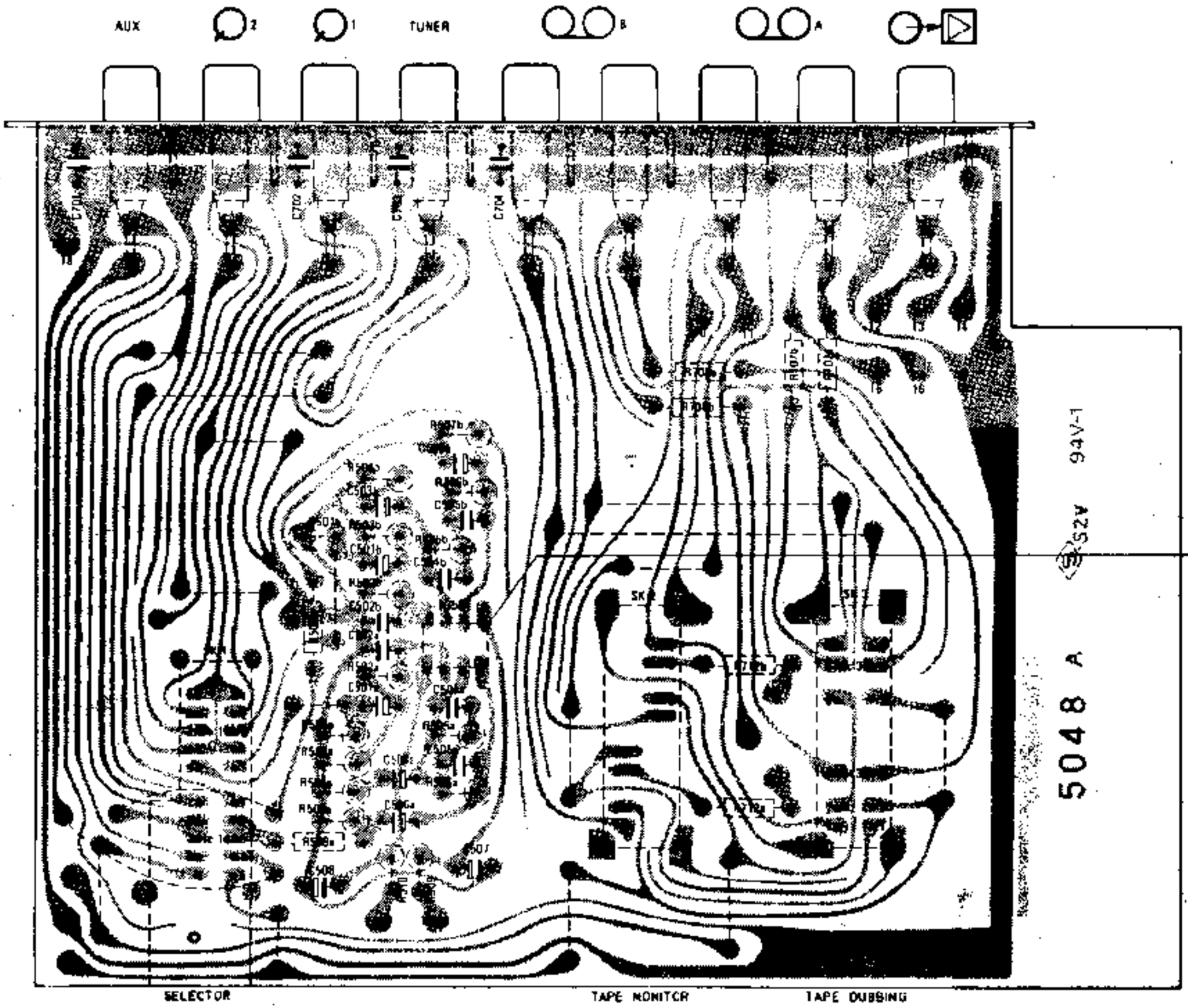
	TS903b TS904b	M
	912b 911b 810b 916	C
		C
	917b-920b	R
	911a 954 815a 915b	R

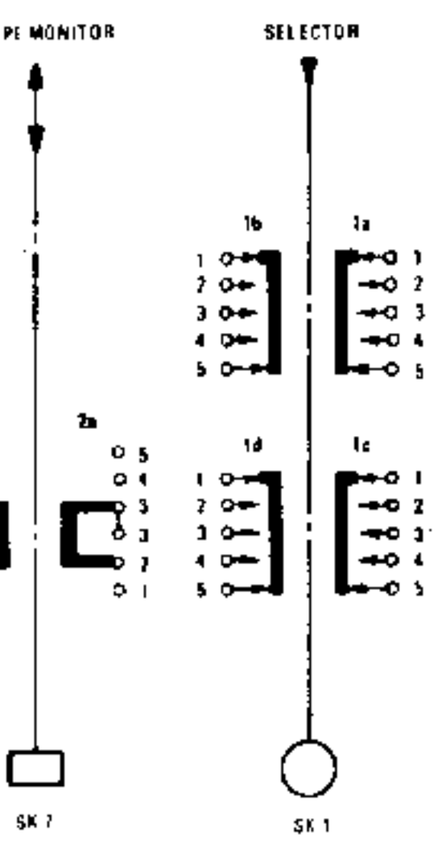
M	SK-1	TS501	SK 2	SK-3	M
C	701	702 501b 503b 703 504b 508b 704			C
C		508 501a-503a 504a 506a 507			C
R		508b 581b 504b 505b 507b	708b 709a	707b 707b	R
R		508a 507a 501a-504a 510 509 505a 506a	712a 712b		R



TS904b
a 15.5V
b 7.5V
c 0V

TS903b
a 0V
b 0.5V
c 15V

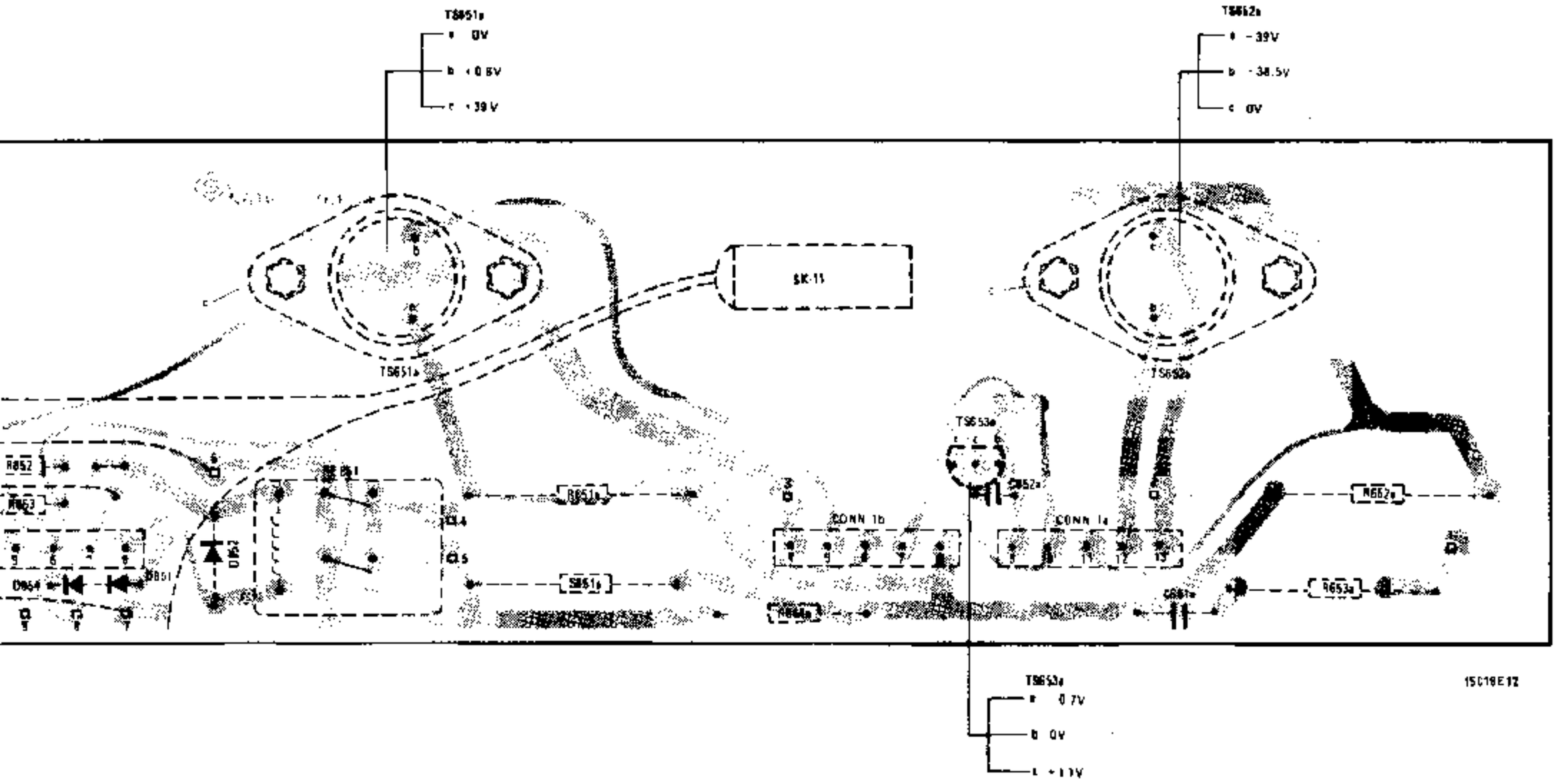




	D854	D861	D862	RE 851	TS861a	S851a	SK-11	TS853a	852b				M
								852a	851a				C
863						851a	854a				853a	852a	A

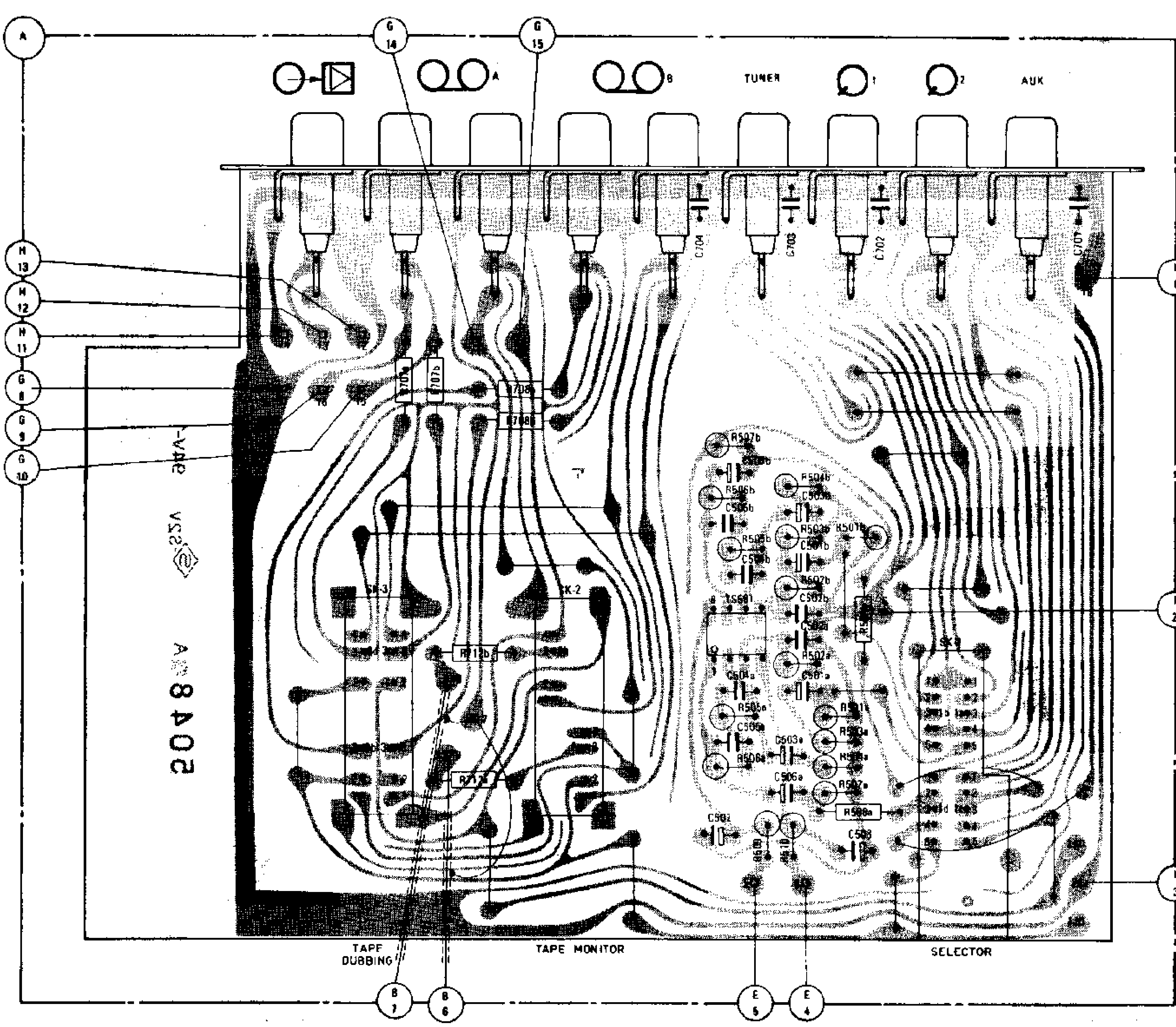
TS851a
a 0V
b +0.8V
c +39V

TS852a
a -39V
b -38.5V
c 0V

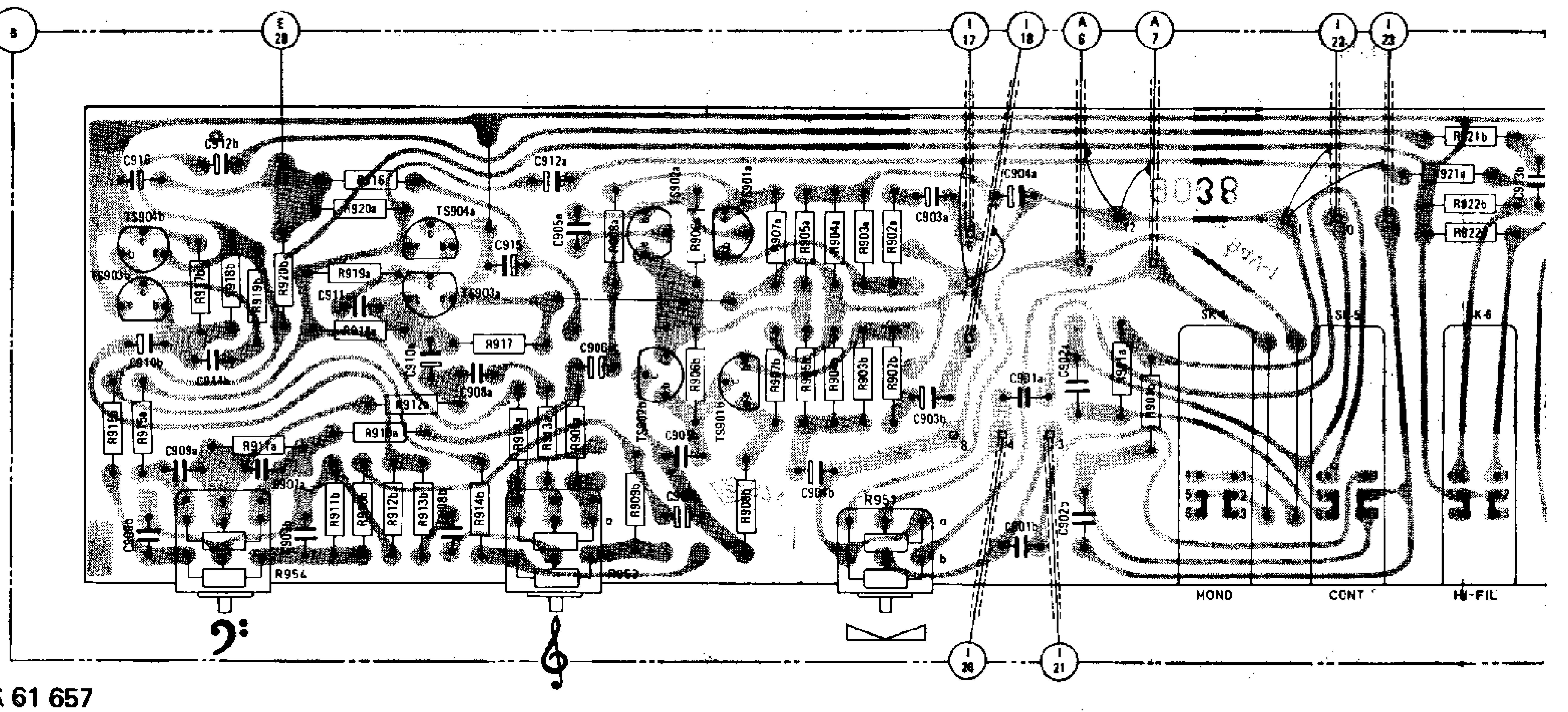


CS 61 656

M	SK-3 SK-2 TS501 SK-1	M
C	704 504b - 506b 703 501b - 503b 702 701	C
C	507 504a - 506a 501a - 503a 508	C
R	707a 707b 708a 708b 505b - 507b R501b 504b 508b	R
R	712b 712a 506a 505a 509 510 501a - 504a 507a 508a	R

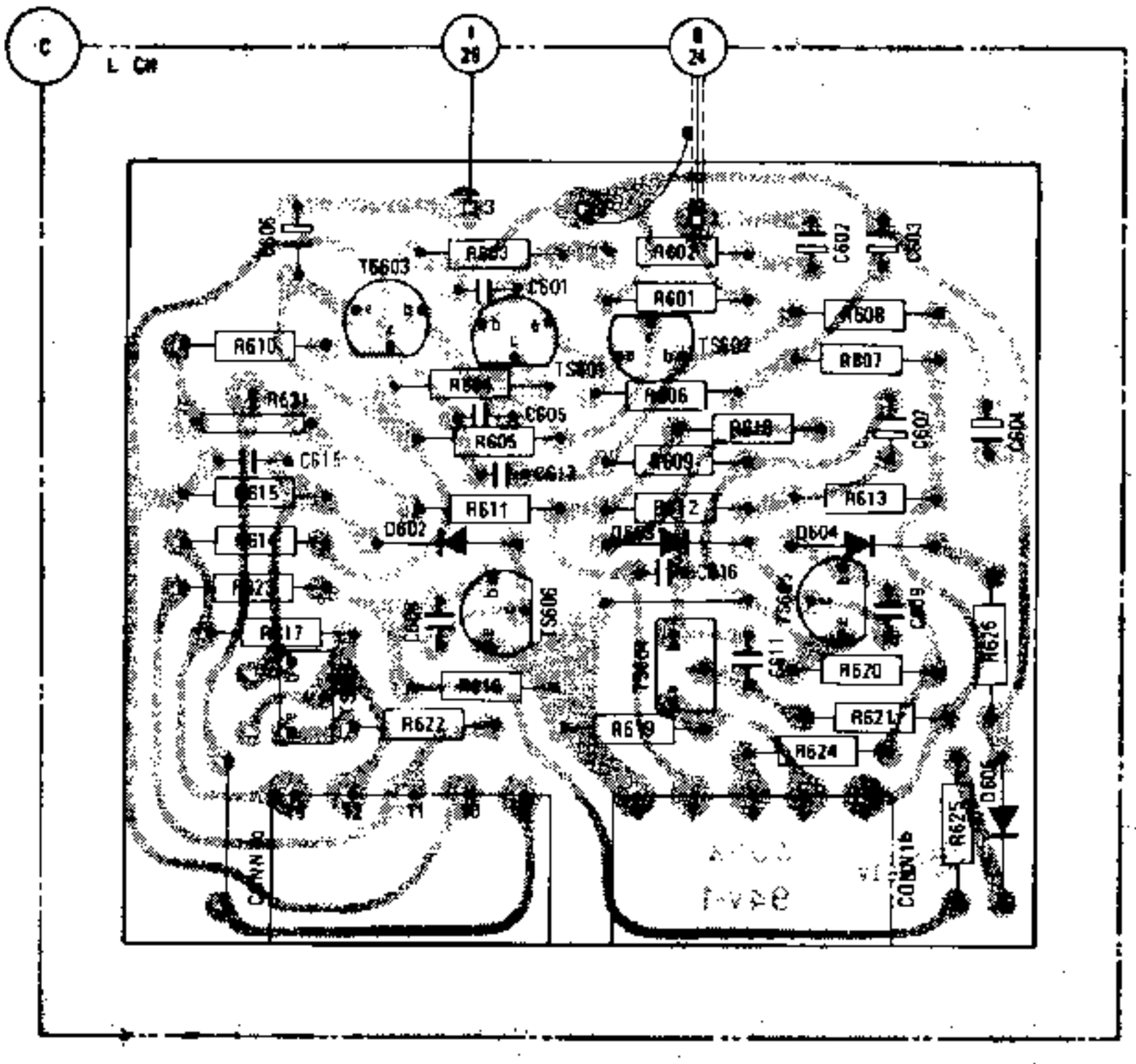


M	TS904b TS903b TS904a TS903a TS902a TS902b TS901a TS901b SK-4 SK-5 SK-6
C	916 910b 911b 912b 911a 910a 908a 915 912a 905a 903a 904a 913b
C	909b 909a 907a 907b 908b 905b 906b 904b 903b 901a 901b 902a 902b
R	917b 920b 918a - 920a 916 912a 917 914a 913a 909a 908a 906a 907a 902a - 905a 921a 921b
R	915b 915a 954a 911a 910a 910b - 914b 953 909b 906b 908b 907b 902b - 905b 951 901a 901b 922b 922a



CS 61 657

M	TS607	TS603	D602	TS601	TS606	TS602	D603	TS604	D604	TS605	D605	M
C	615 606		605 601					602	603 607	604		C
C	610		608 613		616	611		609				C
R	610 681 615		604 603 605		602 601 606 608 616			608	607 613			R
R	614 623 617		622 612 618		619 611			624 620 621		626 625		R



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C			C
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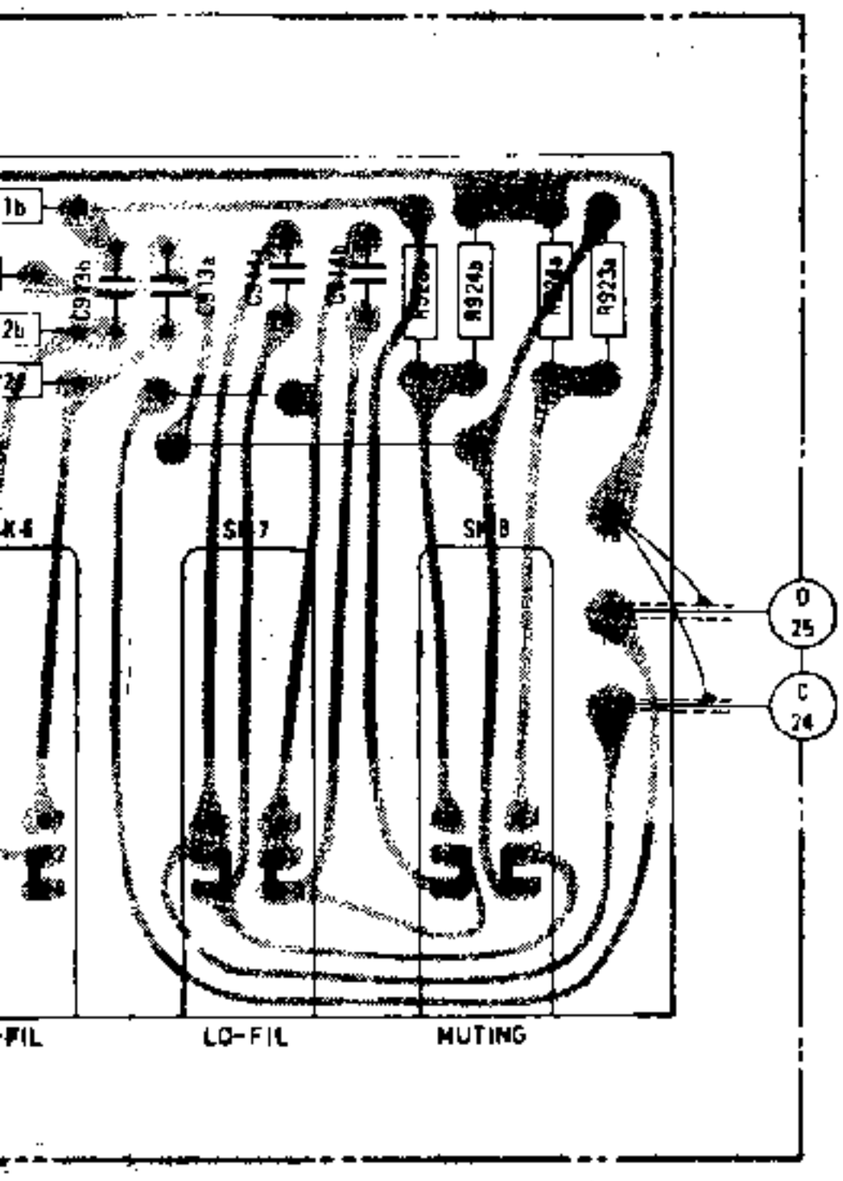

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C	610		608 613		616	611		609				C
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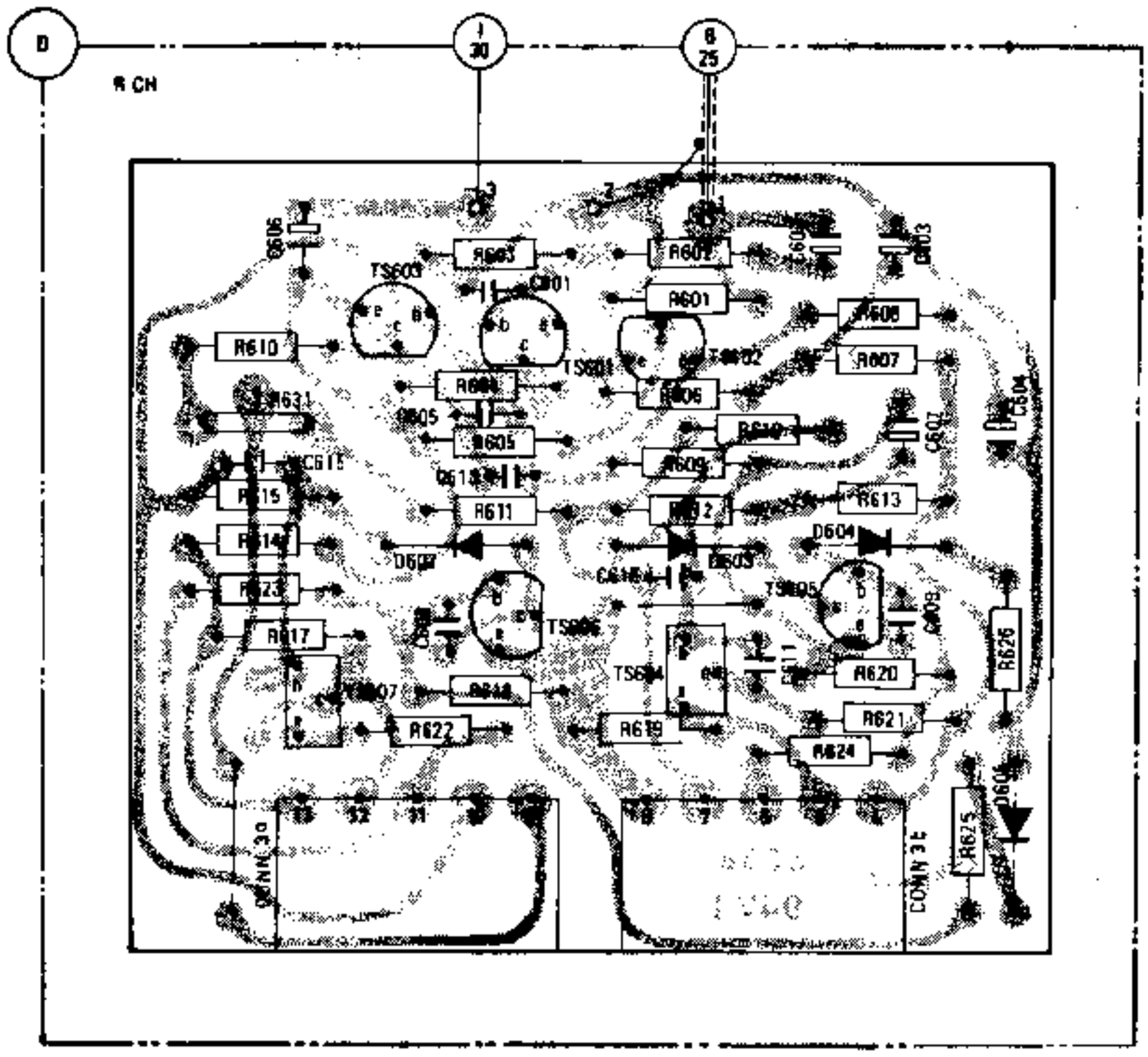
R	614 623 617		622 612 618		619 611			624 620 621		626 625		R



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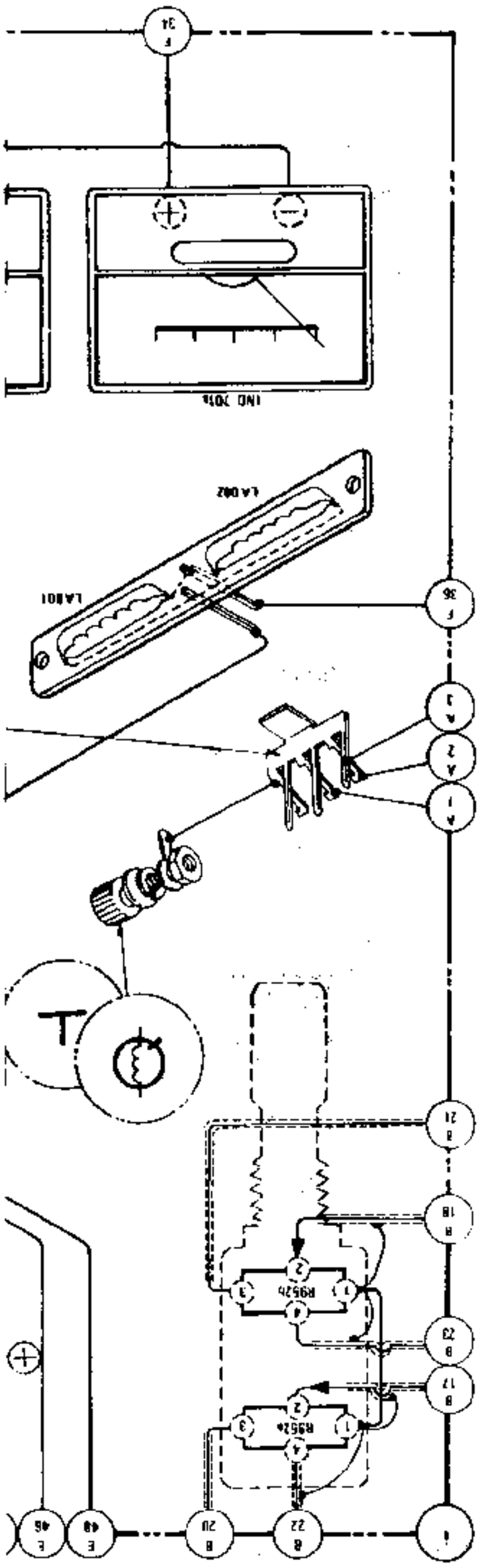
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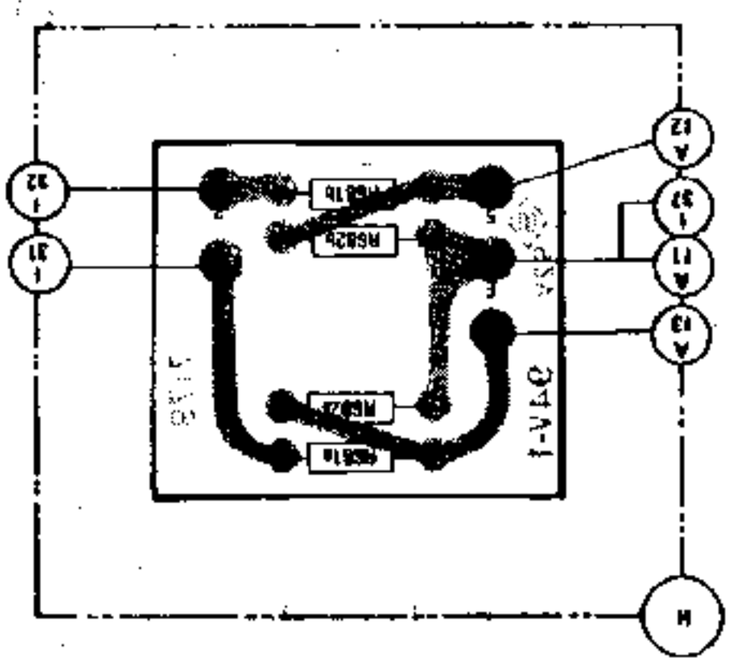
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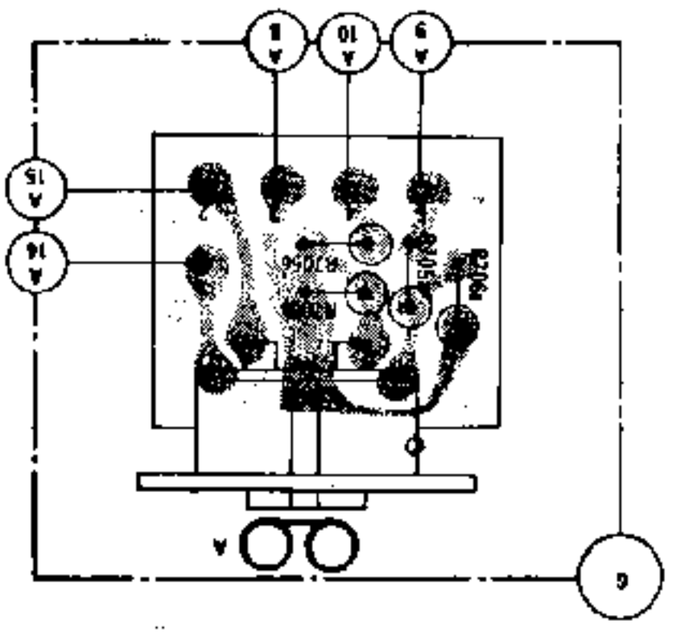
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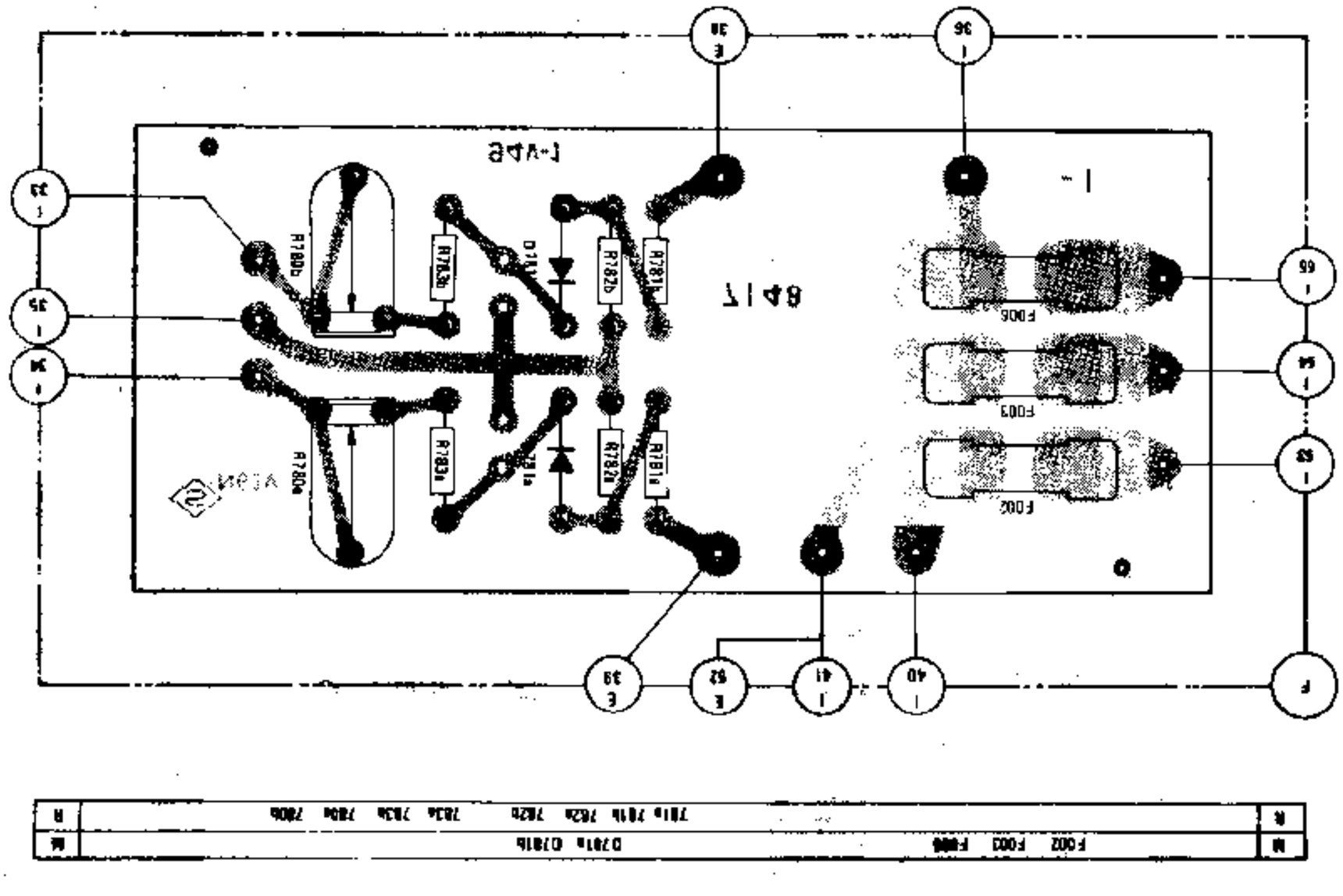
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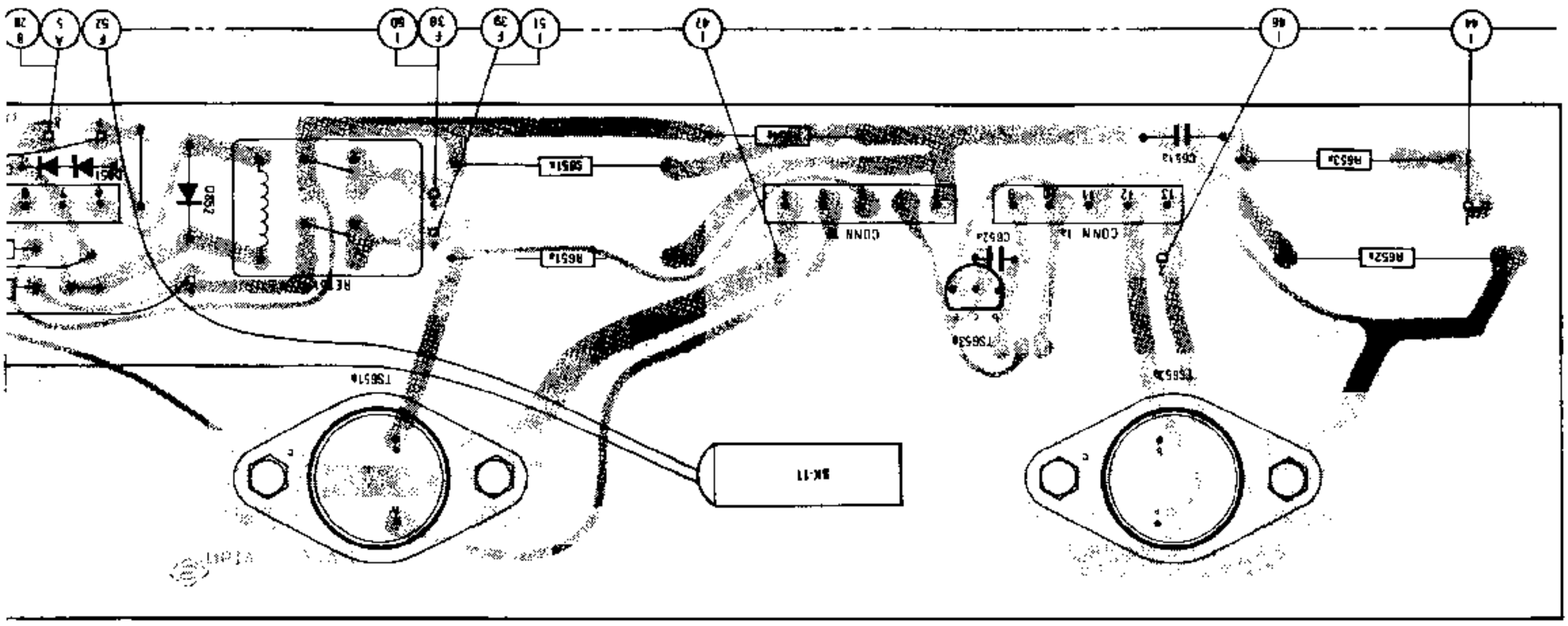
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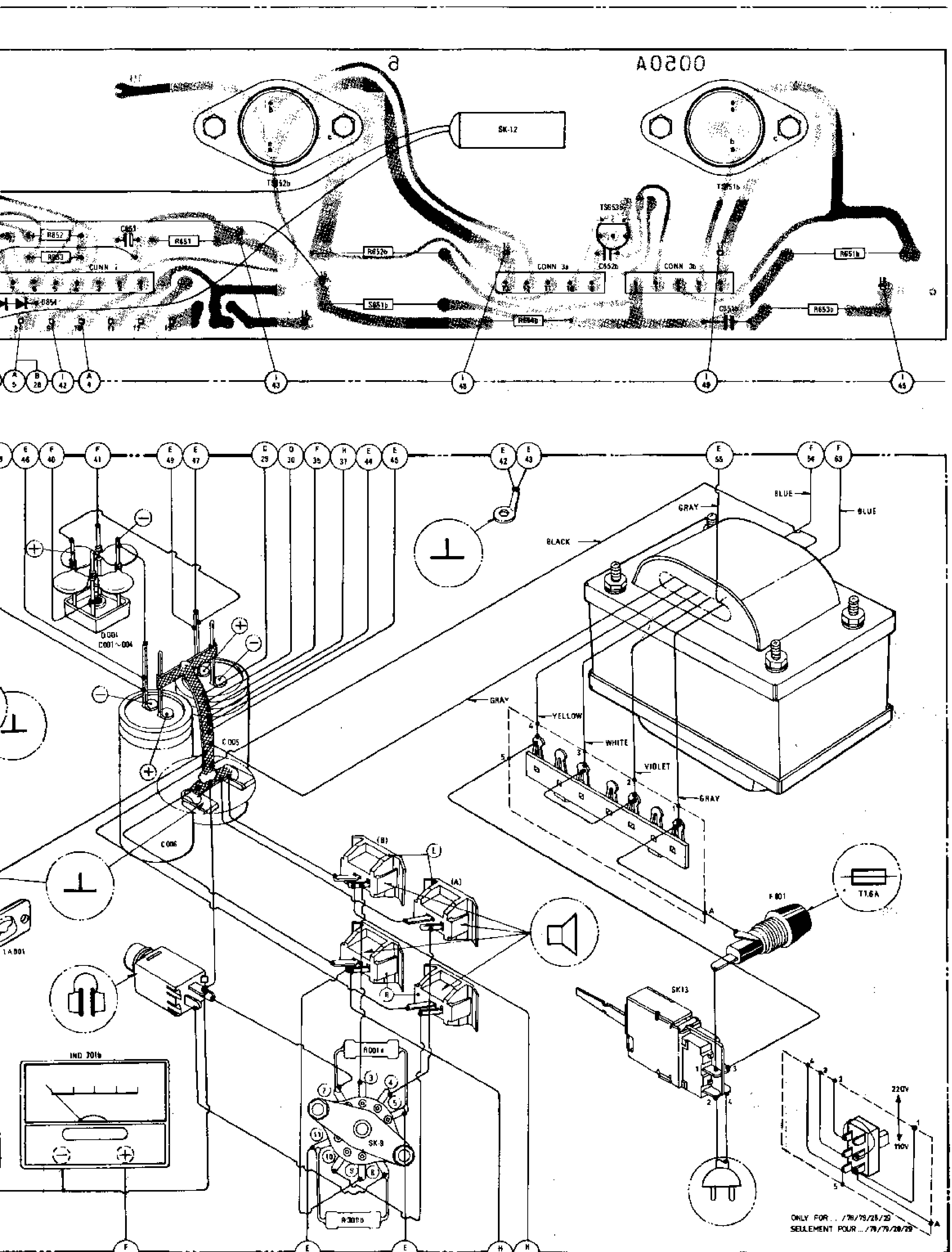

15022E12

CS 61 658

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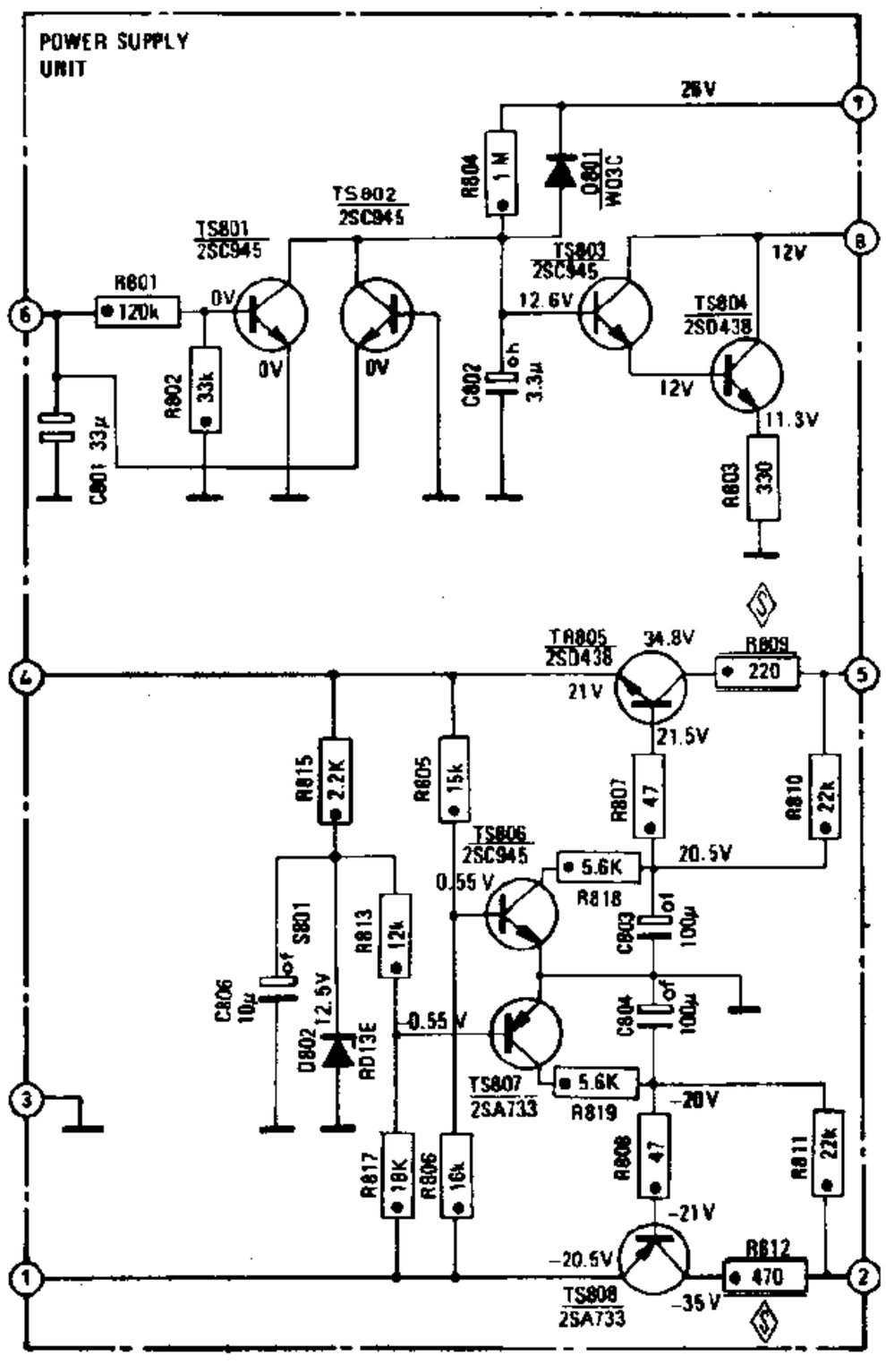

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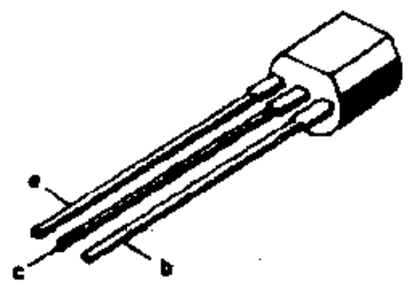

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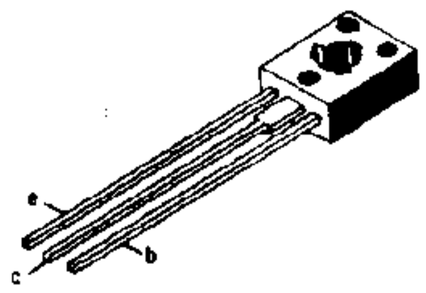

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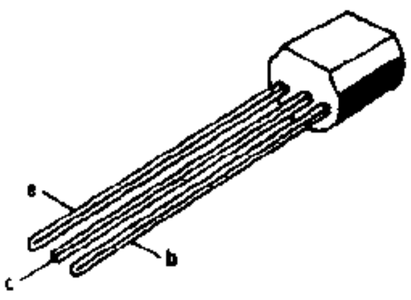

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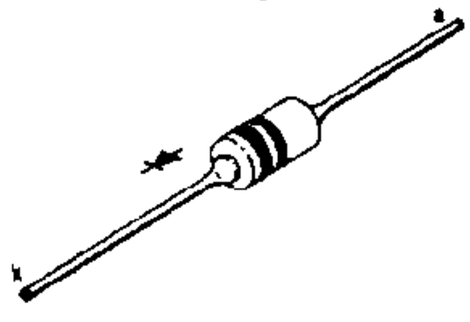

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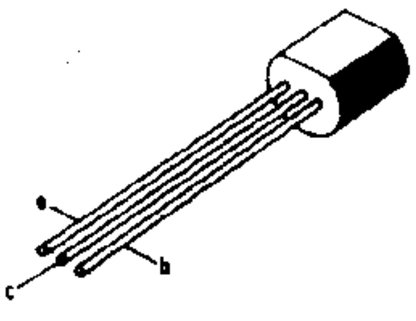
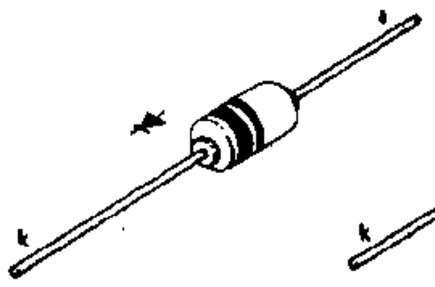


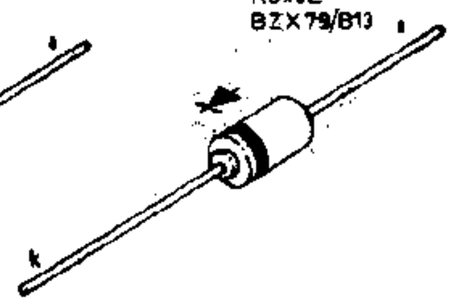
	CARBON RESISTOR E24 SERIES 0.25W 5% RÉSISTANCE CARBONE SÉRIE E24 0.25W	* c = 6.3V d = 10V e = 16V f = 25V g = 40V h = 63V j = 100V r = 250V u = 400V
	MINIATURE ELECTROLYTIC CAPACITOR CHIMIQUE MINIATURE	
	MINIATURE BIPOLAR ELECTROLYTIC CAPACITOR CHIMIQUE MINIATURE BIPOLAR	
	PLATE CERAMIC CAPACITOR CERAMIQUE PLAQUETTE	

ELECTRONIC VOLTMETER
VOLTMÈTRE ÉLECTRONIQUE

WO3C



RD13E
BZX79/B13



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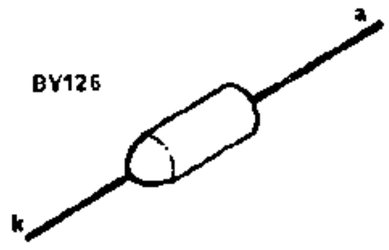
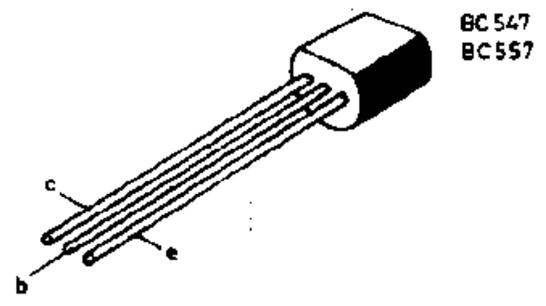
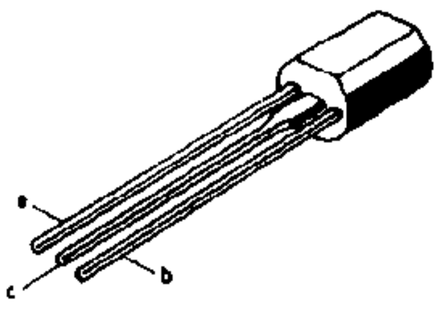
BY126

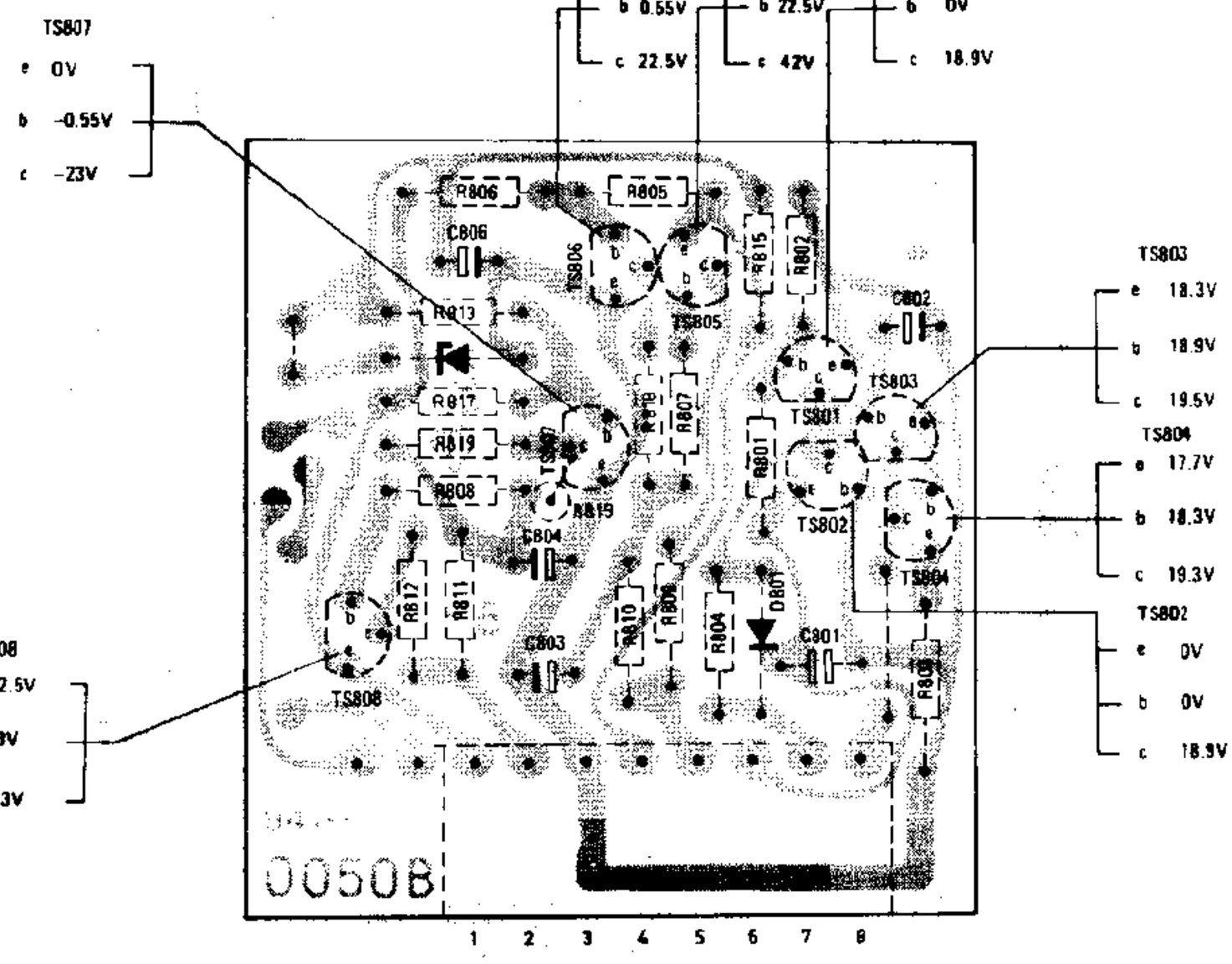


BC 547
BC 557

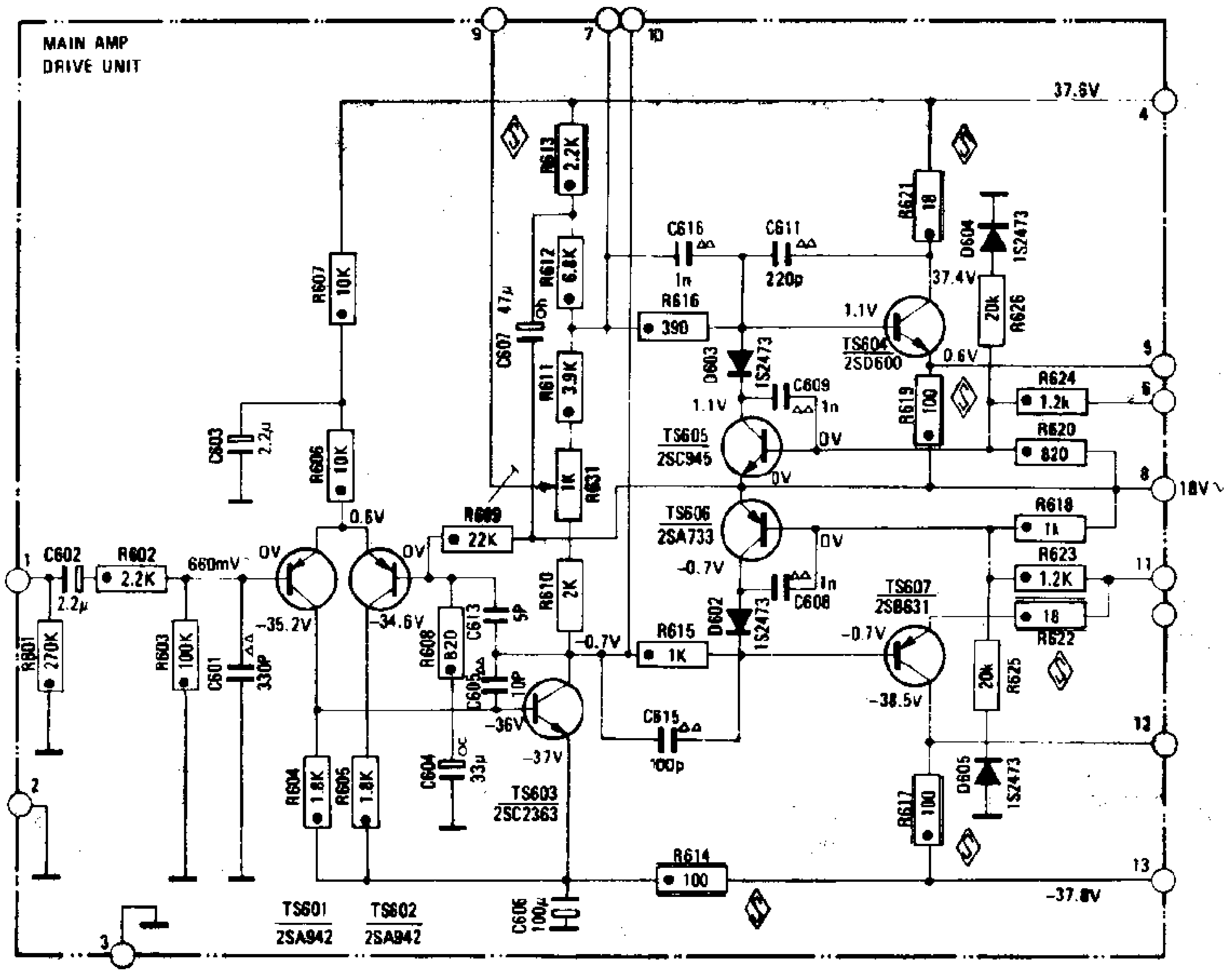


2SD438

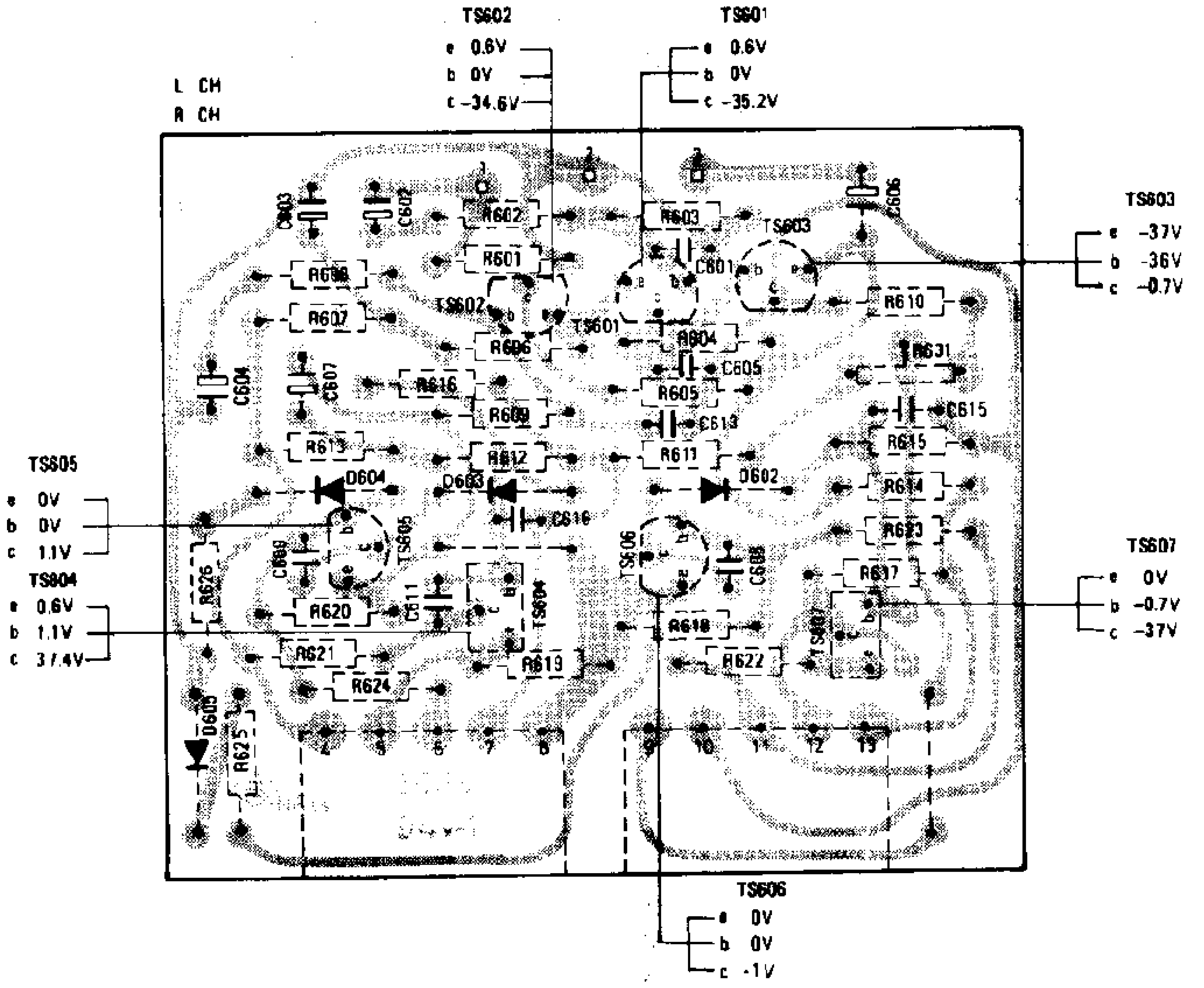




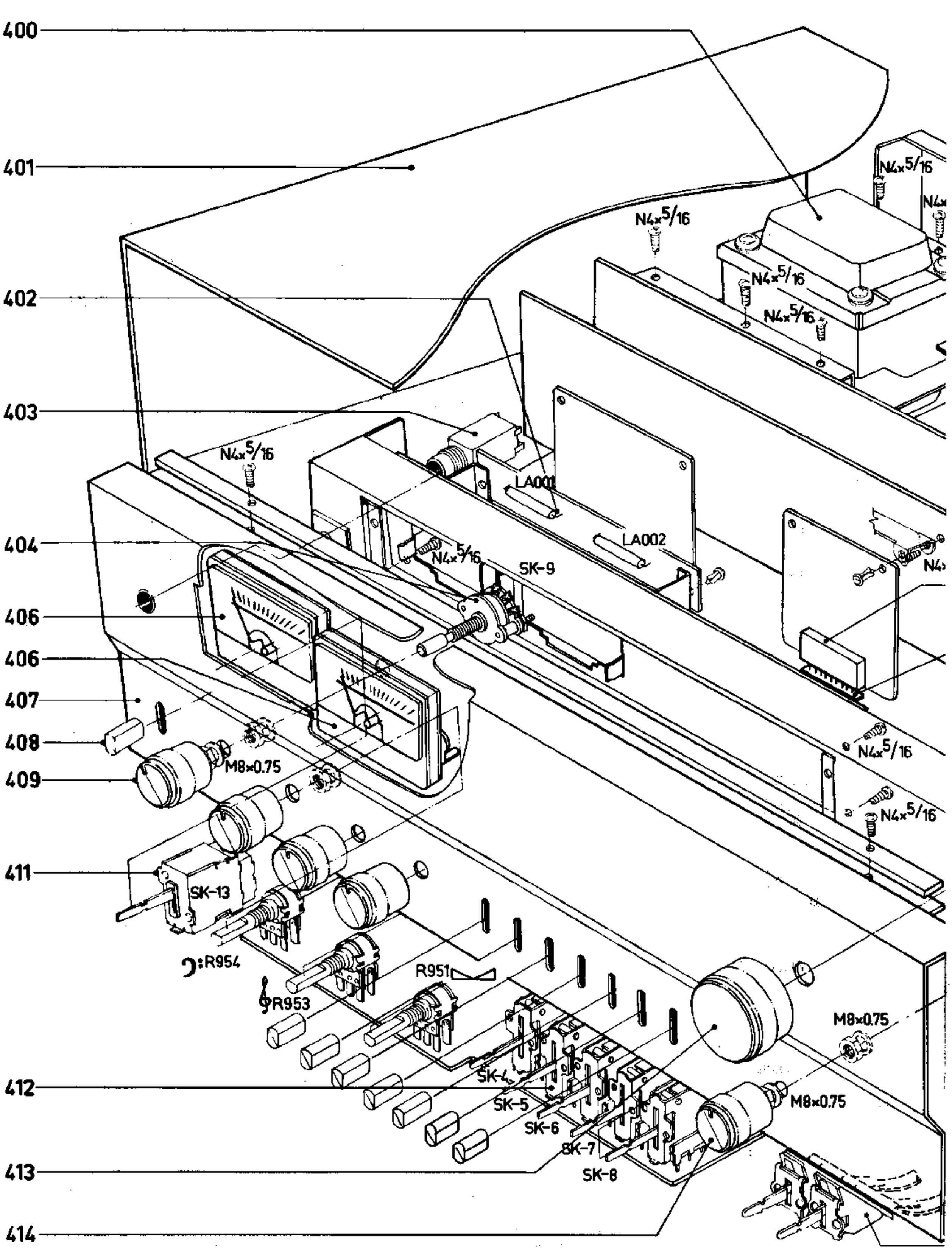
M	D603 TS605 TS604 D604	M
M	TS601 TS602 TS603 D602 TS606 TS607 D605	M
C	602 601 603 604 605 613 607 608 615 616 611 606 609	C
R	631 616 619 621 626 620 624	R
R	601 602 603 604 - 607 608 609 610 - 613 614 615 617 625 618 622 623	R



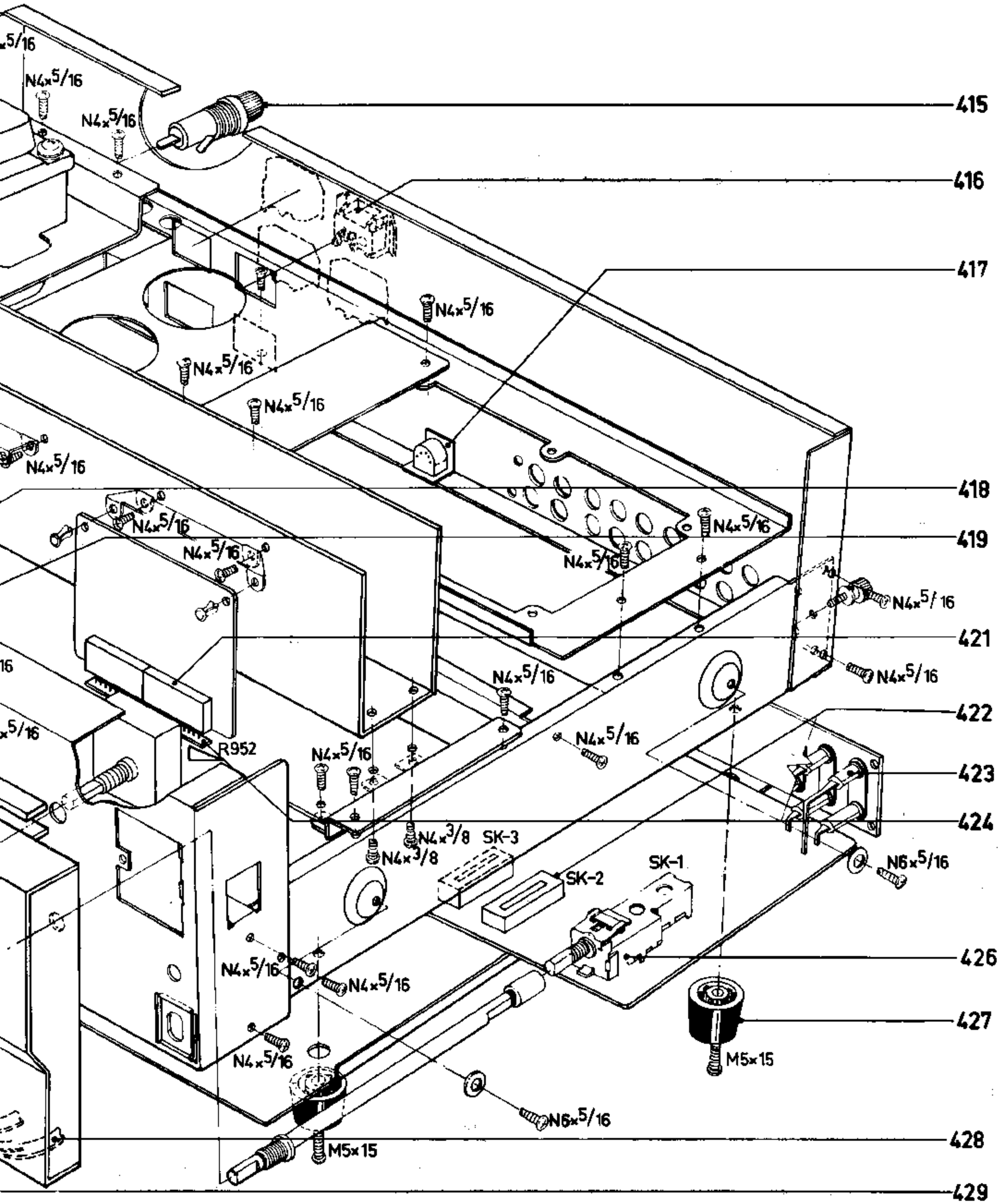
M	D605 TS605 D604 TS604 D603 TS602 TS606 TS601 D602 TS603 TS607	M
C	604 607 603 602 601 605 606 615	C
C	609 611 616 613 608 610	C
R	613 607 608 616 609 606 601 602 605 603 604 615 601 610	R
R	625 626 621 620 624 611 619 618 612 622 617 623 614	R



15024E12



400	4822 146 30317	406	4822 347 20086	412	4822 277 10431
401	4822 425 50108	407	4822 426 50306	413	4822 413 50974
402	4822 134 90007	408	4822 410 22008	414	4822 413 40783
403	4822 267 30283	409	4822 413 40783	415	4822 256 30162
404	4822 273 60107	411	4822 276 10665	416	4822 267 30284



14124E12

417	4822 267 40209	423	4822 267 50257	429	4822 277 10449
418	4822 265 40134	424	4822 267 40259		
419	4822 265 40131	426	4822 273 80172		
421	4822 267 40262	427	4822 462 71088		
422	4822 277 10433	428	4822 277 10432		

INPUT + RIAA PRINT

	⊣⊢	
501a-b	Elco Lo-Leak 4.7 μ - 25 V	5322 124 10014
504a-b	Mylar cap. 1500 pF	4822 121 40452
505a-b	Mylar cap. 5600 pF	4822 121 40462
506a-b	Elco Lo-Leak 1 μ - 50 V	4822 124 20658
701÷704	Ceramic cap. 10 nF	4822 121 50582
	⊣▭⊢	
504a-b	Carbon res. 750 Ω - ¼ W	5322 116 50685
I.C.		
501	NJM 4558 D-D	4822 209 80381

TONE CONTROL PRINT

	⊣⊢	
906a-b	Elco bi-polar 2.2 μF-50 V	4822 124 20657
907a-b	Mylar cap. 33 nF	5322 121 54111
908a-b	Mylar cap. 1800 pF	4822 121 40454
909a-b	Mylar cap. 33 nF	5322 121 54111
912a-b	Elco 2.2 μF - 50 V	4822 124 20584
914a-b	Mylar cap. 18 nF	4822 121 40314
	⊣▭⊢	
901a-b	Carbon res. 5.1 kΩ-¼ W	5322 116 54595
904a-b	Carbon res. 3.6 kΩ-¼ W	4822 110 60122
907a-b	Carbon res. 910 Ω-¼ W	4822 110 60106
921a-b, 924a-b	Carbon res. 5.1 kΩ-¼ W	5322 116 54595
951a-b	Balance 100 K	4822 102 30278
952a-b	Volume 50+50 K	4822 102 30277
953a-b	Treble 100 K	4822 102 30276
954a-b	Bass 100 K	4822 102 30276
901a-b	2SC2089	4822 130 41177
902a-b	2SA942	4822 130 41176
903a-b	2SC2089	4822 130 41177
904a-b	2SA942	4822 130 41176

POWER AMP DRIVE UNIT

	⊣⊢	
602-603	Elco 2.2 μ - 25 V	4822 124 20845
606	Elco 100 μ - 50 V	5322 124 24123
613	Ceramic cap. 5 pF	5322 122 34033
	⊣▭⊢	
610	Carbon res. 2 K - ¼ W	5322 116 54572
625-626	Carbon res. 20 K - ¼ W	5322 116 54642
631	Trimpot. 1 K	4822 100 10208
	⊣K⊢	
601-602	2SA942	4822 130 41176
603	2SC2363	4822 130 41208
604	* 2SD600 = BD139	4822 130 40823
605	* 2SC945 = BC547	4822 130 44257
606	* 2SA733 = BC557	4822 130 44256
607	* 2SB631 = BD140	4822 130 40824
	⊣▶⊢	
602÷605	IS2473 = BA221	4822 130 30831

LF OUTPUT + POWER PRINT

651a-b, 652a-b	Metal res. 0.39 Ω - 3 W	4822 116 51171
653a-b	Metal res. 10 Ω - 2 W	5322 116 54348
654a-b	Metal res. 10 Ω - 1 W	5322 116 54214
851	Metal ox. res. 3.3 K - 1 W	4822 116 51149
	⊣∿∿⊢	
651a-b	Choke coil 3 μH	4822 157 40148
	⊣K⊢	
651a-b, 652a-b	2SC1051	4822 130 41138
653a-b	2SC945	4822 130 44257
	⊣▶⊢	
851-852	W03C = BY126	4822 130 41119
854	W03C = BY126	4822 130 41119

POWER SUPPLY UNIT

	⊣⊢	
801	Elco bi-polar 33 μF-16 V	4822 124 20665
	⊣K⊢	
801÷803	* 2SC945 = BC547	4822 130 44257
804-805	2SD438	4822 130 41139
806	* 2SC945 = BC547	4822 130 44257
807-808	* 2SA733 = BC557	4822 130 44256
	⊣▶⊢	
801	W03C = BY126	4822 130 41119
802	RD13E = BZX79/B13	4822 130 34195

MISCELLANEOUS

C001÷004	Ceramic cap. 10 nF	5322 122 50046
C005-006	Elco 8200 μF - 45 V	4822 124 20662
R001a-b	Metal ox. res. 330 Ω-2 W	5322 116 54395
R681a-b	Carbon res. 6.2 kΩ- ¼ W	4822 110 63129
R682a-b	Carbon res. 1.1 kΩ- ¼ W	4822 110 60108
R780a-b	Trimpot. 1K	4822 100 10225
D001	S4VB-10	4822 130 30977
D781a-b	IN60 = AA119	4822 130 31012
F001	Fuse 1.6 A slow	4822 253 30024
F002-003	Fuse 4 A slow	4822 253 30038
F006	Fuse 1.6 A slow	4822 253 30024
SK11-12	Thermal switch	4822 282 40158
	Fuse holder for PCB	4822 256 30154
RE851	Relay	4822 280 20072

* Watch the connections of E-B-C
Voir les connections de E-B-C

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.

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

Die Sicherheitsvorschriften erfordern, dass das Gerät sich nach der Reparatur in seinem originalen Zustand befindet und dass die benutzten Einzelteile den aufgeführten Teilen identisch sind.

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.

S

Säkerhetsbestämmelserna kräver att varje reparation skall utföras korrekt med hänsyn till ursprunglig placering av komponenter, ledningar etc. och med användning af föreskrivna reservdelar.

DK

Myndighedernes sikkerheds- og radiostøjbestemmelser kraever, at enhver reparation skal udføres korrekt m.h.t. overholdelse af originalplacering og montering af komponenter, ledningsbundter, etc., og ved anvendelse af de foreskrevne reservedele.

N

Sikkerhetsbestemmelser kreves at apparatet blir gjennopprettet til orignial utførelse og at deler som er identiske med de som er spesifisert, blir benyttet.

SF

Korjatessa laitetta on turvallisuussyistä ehdottomasti eneteltävä oikein ja käytettävä tehtaan määräämiä alkuperäisvaraosia.