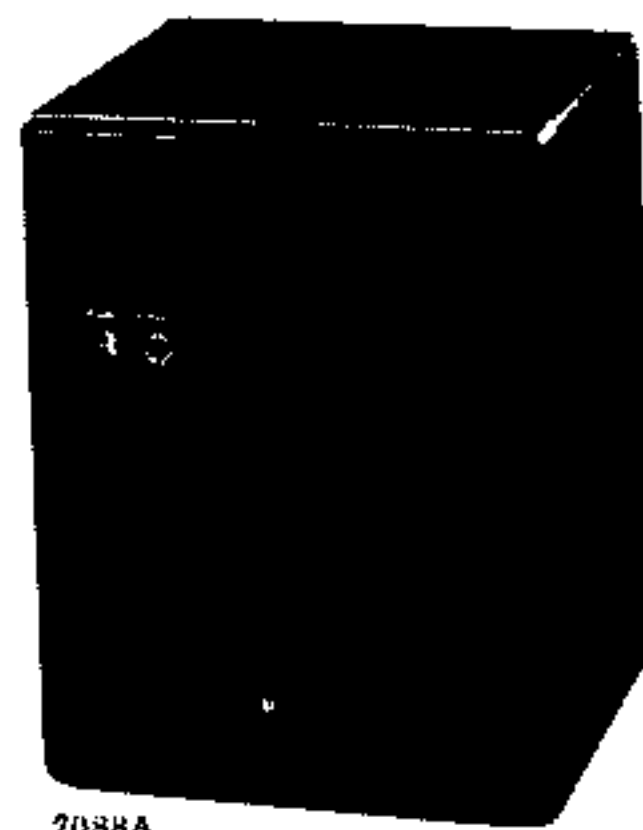
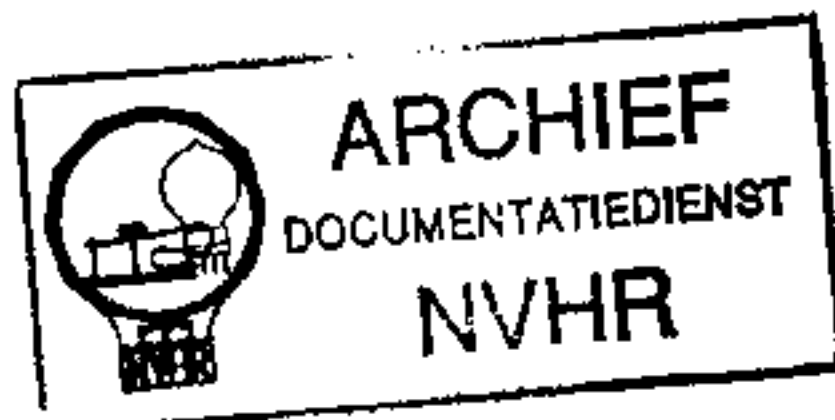


Service
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Ned. Ver. v. Historie v/d Radio



7088A

Service Manual

(GB)

These versions are identical to the versions -/50/65/79 respectively. However, the difference is the mains-switch which has been added for the versions -/80/85/89. The code number of the mains switch is 4822 276 10615. The code number of the appertaining fixing block is 4822 404 60103; that of the relief bracket 4822 404 10141. Bush, item 18 in service manual 22RH541/50/65 and -/79 has been left out in these new versions. For the connection of the mains switch see the Figure.

(F)

Ces versions dérivées sont identiques aux version de base -/50/65/79. Le commutateur secteur est cependant ajouté dans les versions -/80/85/89. Le code de ce commutateur est le 4822 276 10615. Le code du bloc de fixation appartenant au commutateur est le 4822 404 60103; le code de l'arrêt de câble est le 4822 404 10141. Le manchon rep. 18 de la Documentation du 22RH541/50/65 et de la version /79 est éliminé dans ces nouvelles versions. Pour ce qui est de la connexion du commutateur secteur, voir la figure.

(I)

Queste versioni derivate sono identiche alla versione di base -/50/65/79. Il commutatore rete è però stato stato aggiunto nelle versioni -/80/85/89. Codice di questo commutatore è il 4822 404 60103. Il codice del fermo di cavo è il 4822 404 10141. Il manicotto pos. 18 nelle Documentazione Tecnica del 22RH541/50/65 e /79 è stato eliminato in queste nuove versioni. Per quanto concerne il collegamento del commutatore rete, vedi fig.

(NL)

Deze streepuitvoeringen zijn gelijk aan de uitvoeringen -/50/65/79. Voor de uitvoeringen -/80/85/89 is echter een netspanningsschakelaar toegevoegd (4822 276 10615) Het kodenummer van het bijbehorende bevestigingsblokje is 4822 404 60103. Het kodenummer van de trekontlastingsbeugel is 4822 404 10141. De bus, positie 18 in dokumentatie 22RH541/50/65/79 is bij deze nieuwe uitvoeringen weggelaten. Voor de aansluiting van de netschakelaar, zie de tekening.

(D)

Diese Ausführungen und die Ausführungen -/50/65/79 sind identisch. In den Ausführungen -/80/85/89 ist jedoch ein Netzspannungsschalter hinzugefügt worden (Code-Nr. 4822 276 10615). Der zugehörige Befestigungsblock hat die Code-Nummer 4822 404 60103, und der Zugentlastungsbügel 4822 404 10142. Die Büchse, Pos. 18 in der Dokumentation 22RH541/50/65/79, hat man in diesen neuen Ausführungen weggelassen. Für den Anschluss des Netzschalters siehe die Zeichnung.

CS 61 256

Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Servicio



Subject to modification
4822 725 12619
Printed in The Netherlands

PHILIPS

S

Dessa versionsnummer är identiska med respektive versioner /50/65/79, fränsett en nätströmbrytare som har tillkommit i versionerna /80/85/89. Nätströmbrytaren har kodnummer 4822 276 10615. Kodnummer för tillhörande låsstycke 4822 404 60103 och reliefplatta 4822 404 10141.

Bussningen, pos. 18 i Service Manualen 22RH541/50/65/79, har utgått i de nya versionerna.

Se figuren för anslutning av nätströmbrytaren.

N

22RH541/80/85/89 er identiske med utførelsene /50/65/79, med følgende tilføyelser:

Nettbryter 4822 276 10615

Festeblokk 4822 404 60103

Avlastningsbrakett 4822 404 10141

Bøsning, pos. 18 i Service Manual 22RH541/50/65/79, er sløffet i de nyere utførelsene.

Nettbryterens tilkopling er vist i figuren.

DK

22RH541/80/85/89 er identiske med henholdsvis 22RH541/50/65/79, men forsynet med netafbryder.

Varenummeret for netafbryderen er 4822 276 10615.

Den tilhørende befæstelsesbøjle har varenummer 4822 404 60103 og reliefbøjlen 4822 404 10141.

Bøsningen, pos. 18 i Service Manual for 22RH541/50/65/79 anvendes ikke i 22RH541/80/85/89.

For netafbryderens forbindelser, se tegning.

SF

Nämä kauttaversiot ovat samanlaisia kuin versiot

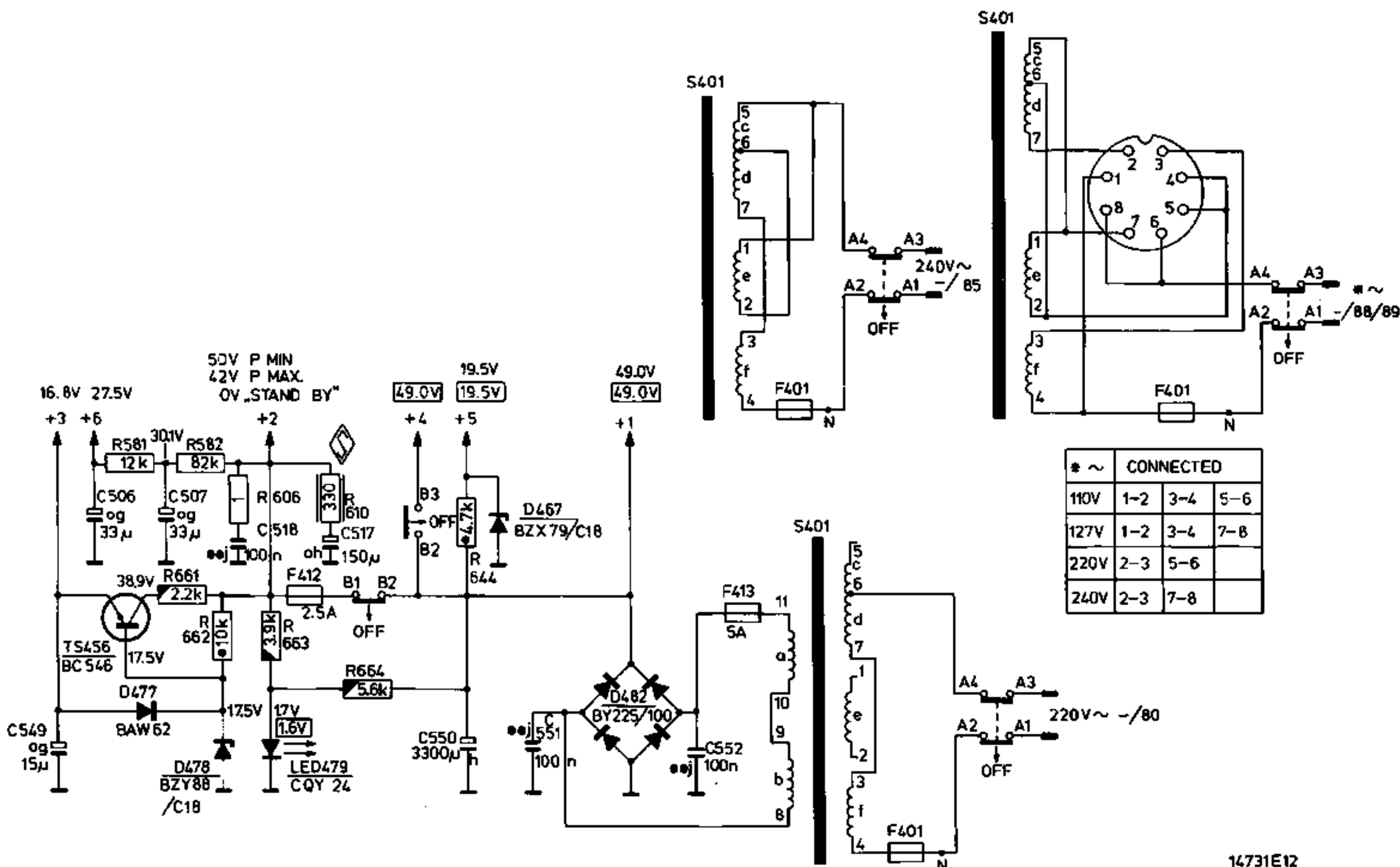
-/50/65/79 vastaavasti. Erona on kuitenkin verkkokytkin, joka on liöetty versioihin -/80/85/89.

Verkkokytkimen koodinnumero on 4822 276 10615.

Siihen kuuluvan kiinnitysosan koodi on 4822 404 60103 ja vapautusosan koodi 4822 404 10141.

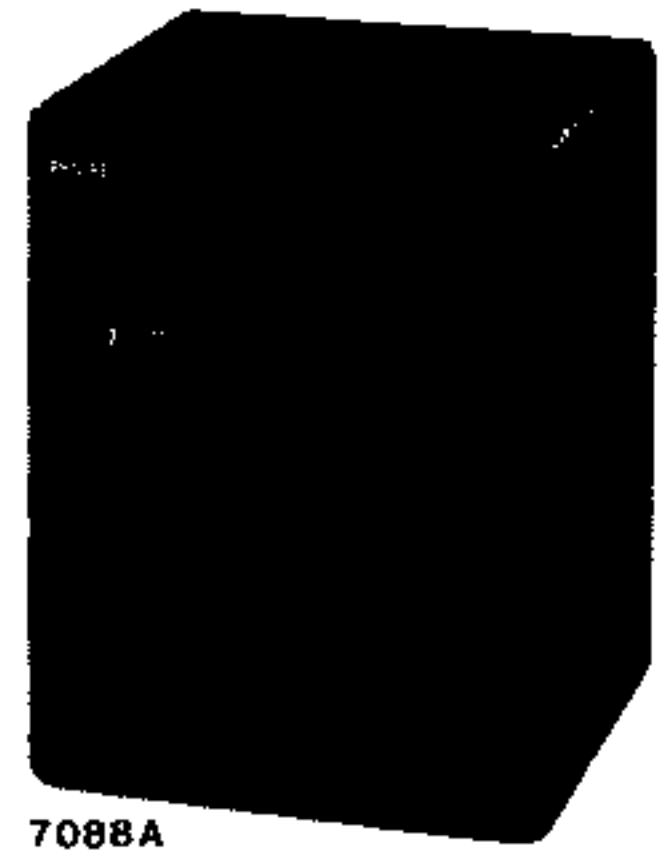
Holkki, osa 18, huolto-ohjeessa 22RH541/50/65 ja -/79 on poistettu näista uusista versioista.

Verkkokytkimen kytkentä selviää kuvasta.



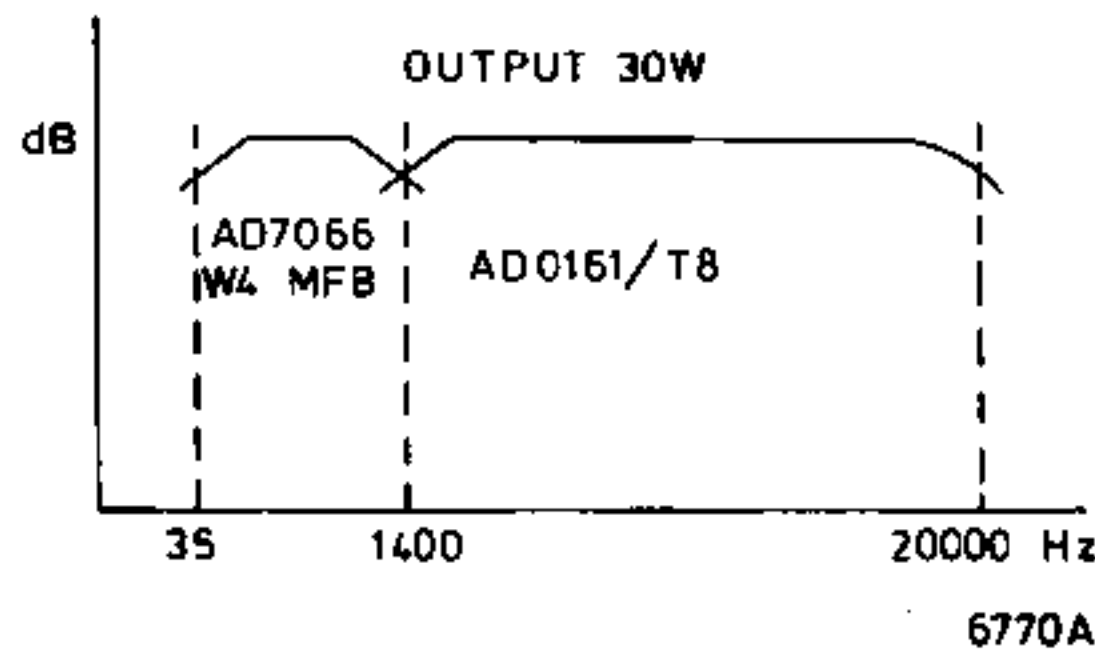
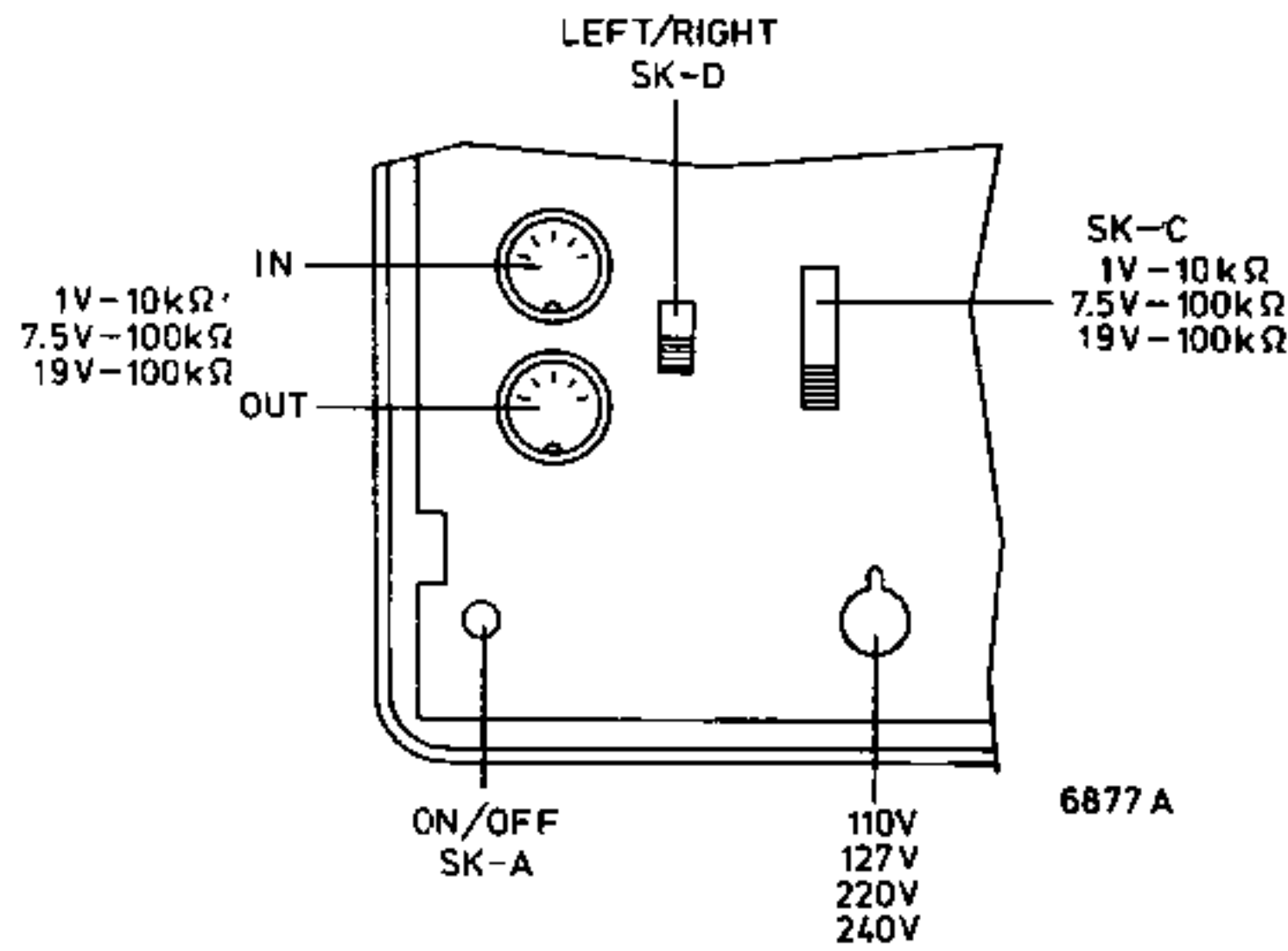
14731E12

Service
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Service



7088A

Service Manual



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

Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Servicio



Subject to modification
4822 725 11571
Printed in The Netherlands

PHILIPS

GB

Adjusting the DC current flowing through the output stage

Adjust, with R601, the voltage across R607 to 13.2 mV (40 mA).

Adjusting the acoustic feedback

1. Set SK-C to position 1 V - 10 k Ω
2. Apply a signal of 10 mV - 125 Hz to the input, using a low-ohmic generator ($\leq 100 \Omega$)
3. Adjust, with R630, the voltage across S408 (points 5-6 of the plug) to 110-120 mV

F

Réglage du courant continu dans l'étage final

Avec R601, régler la tension aux bornes de R607 sur 13,2 mV (40 mA)

Réglage de la rétroaction acoustique

1. Brancher SK-C en position 1 V - 10 k Ω
2. A l'aide d'un générateur à basse impédance ($\leq 100 \Omega$) appliquer un signal de 10 mV - 125 Hz sur l'entrée
3. Avec R630, régler la tension aux bornes de S408 (points 5-6 de la douille) sur 110-120 mV

I

Regolazione de la corrente continua nello stadio finale

Con R601, regolare la tensione ai capi di R607 su di 13,2 mV (40 mA)

Regolazione della reazione acustica

1. Collegare SK-C in posizione 1 V - 10 k Ω
2. Tramite un generatore a bassa impedenza ($\leq 100 \Omega$) applicare un segnale di 10 mV - 125 Hz sull'ingresso
3. Con R630, regolare la tensione ai capi di S408 (punti 5 e 6 della presa) su di 110-120 mV

DK

Justering av likstrømmen genom slutsteget

Justera spänningen till 13,2 mV (40 mA) med R601 oever R607.

Justering av akustisk returmatning

1. SK-C i läge 1 V - 10 k Ω
2. Anslut en 10 mV-125 Hz signal till ingången; använd en lågohmig generator ($\leq 100 \Omega$)
3. Justera spänningen till 110-120 mV med R630 över S408 (punkt 5-6 på uttaget)

S

Justering av DC-strømmen gjennom utgangstrinnet

Juster spenningen over R607 til 13,2 mV (40 mA) med R601.

Justering av akustisk tilbakekopling

1. Sett SK-C i stilling 1 V - 10 k Ω
2. Tilfør et signal på 10 mV-125 Hz på inngangeh, ved bruk av en lav-ohmig generator ($\leq 100 \Omega$)
3. Juster spenningen over S408 (punktene 5-6 på pluggen) med R630

NL

Instellen gelijkstroom eindtrap

M.b.v. R601 de spanning over R607 instellen op 13,2 mV (40 mA)

Instellen akoustische terugkoppeling

1. Zet SK-C in de stand 1 V - 10 k Ω
2. M.b.v. een laag ohmige generator ($\leq 100 \Omega$) een signaal van 10 mV - 125 Hz op de ingangsbuss toevoeren
3. M.b.v. R630 de spanning over S408 (punten 5-6 van de plug) instellen op 110-120 mV

D

Einstellen des Gleichstromes der Endstufe

Mit R601 die Spannung an R607 auf 13,2 mV (40 mA) einstellen.

Einstellen der akustischen Rückkopplung

1. SK-C in die Stellung 1 V - 10 k Ω schalten
2. Mit einem niederohmigen Generator ($\leq 100 \Omega$) ein Signal von 10 mV - 125 Hz an die Eingangsbuchse führen
3. Mit R603 die Spannung an S408 (Punkte 5-6 des Steckers) auf 110-120 mV einstellen

E

Ajuste de la corriente de la etapa final

Ajústese mediante R601 la tensión en bornes de R607 a 13,2 mV (40 mA)

Ajuste del contracoplamiento acústico

1. Conmútese SK-C a la posición 1 V - 10 k Ω
2. Aplíquese, mediante un generador con resistencia óhmica baja ($\leq 100 \Omega$), una señal de 10 mV-125 Hz al enchufe de entrada.
3. Ajústese mediante R630 la tensión en bornes de S408 (puntos 5-6 del enchufe) a un valor de 110 a 120 mV

N

Justering af jævnstrømmen, i udgangstrinnet

Juster R601 således at spændingen over R607 er 13,2 mV (40 mA).

Justering af akustisk modkobling

1. Sæt SK-C i stilling 1 V - 10 k Ω
2. Tilfør 125 Hz/10 mV til indgangen (benyt en lavohms-generator ($\leq 100 \Omega$))
3. Juster R630 således at spændingen over S408 (pkt. 5-6 på pluget) er 110-120 mV

SF

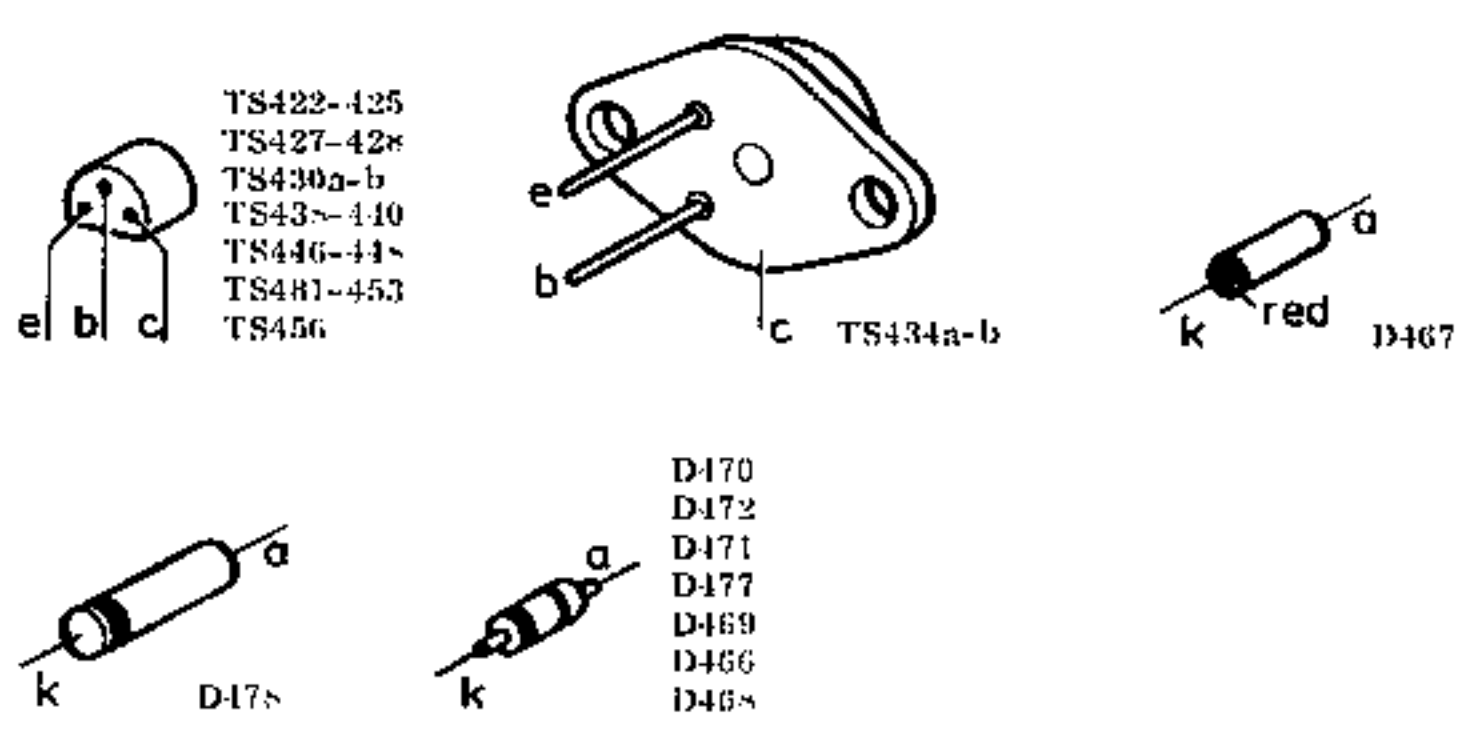
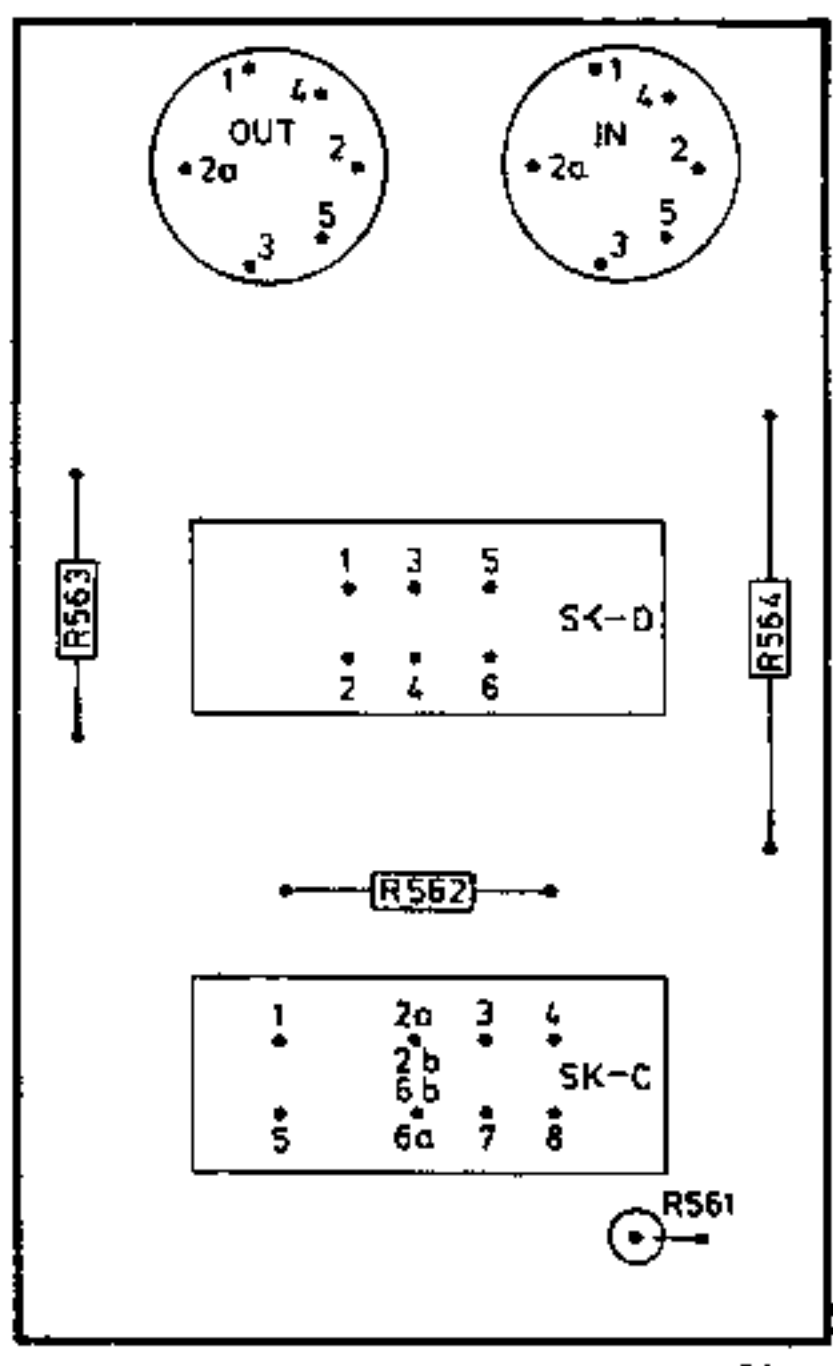
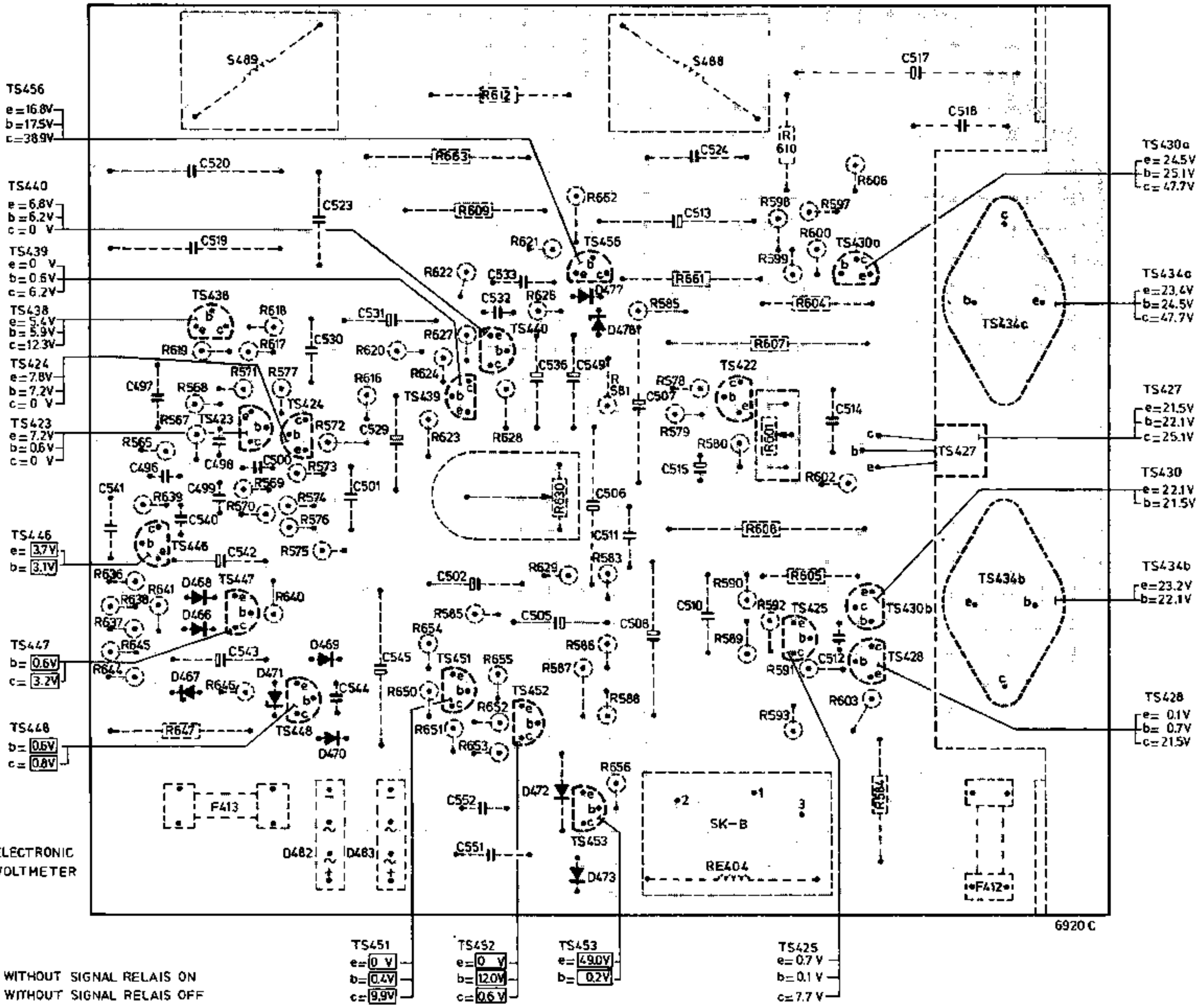
Pääteasteen tasavirran säätö

Säädä vastuksella R601 jännite R607 navoissa arvoon 13,2 mV (40 mA).

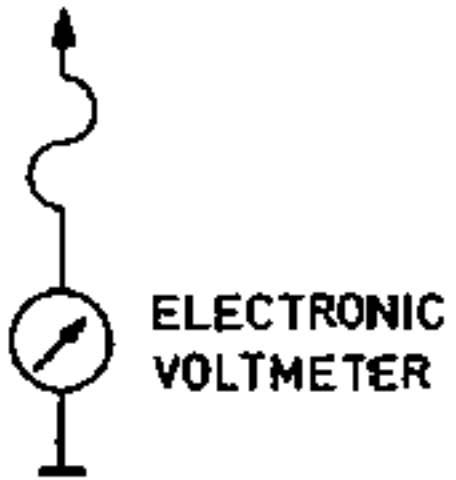
Akustisen vastakytkennän säätö

1. Aseta SK-C asentoon 1 V - 10 k Ω
2. Syötä 10 mV signaali taajuudella 125 Hz tuloon käyttäen pieni-impedanssista generaattoria ($\leq 100 \Omega$)
3. Säädä R630:lla jännite S408:n navoissa (pistikkeen nastat 5 6) arvoon 110-120 mV

MISC	TS438 423 S489 TS424	TS439	TS440	TS456 D477 470	S488	TS422	TS430a	TS427	TS434a	
MISC	TS446 D466 471 F413 TS447 448 D482	D483	TS451	TS452	D472 473 TS453	SK-B RE404	TS425	TS430b	TS428	F412 TS434b
C	497 520 519 498	530 523	529 531	532 533 536	549 506 507 513 524	S14	C517	C518		
C	541 496 542 540 499 500 570 543 544 501 545	502 552 551	505	511 508 515 510	512					
R	585 567 619 568 571 617 618 577 572 616 620 622 624 627 663 609 612 626 621 626 662 581 585 578 579 661 580 610 607 597 601 604 606									
R	636 639 644 645 641 647 647 569 640 573 576	585 650 655	629 630 586 588 583 656	608 589 593 605 602 603 584						

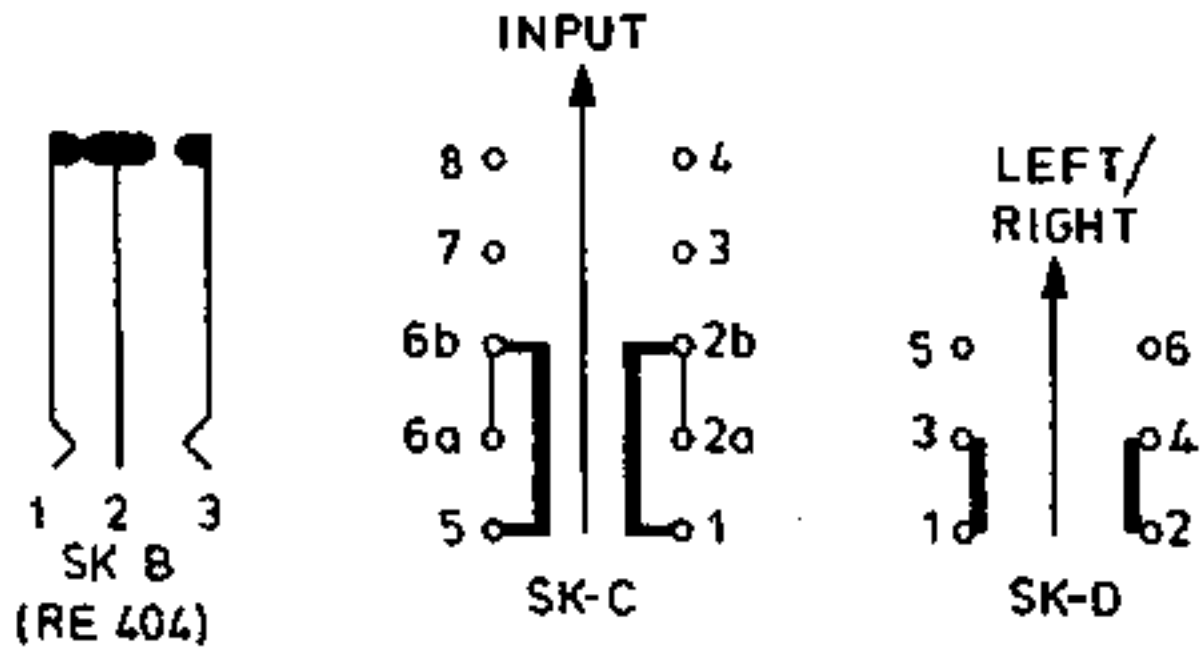
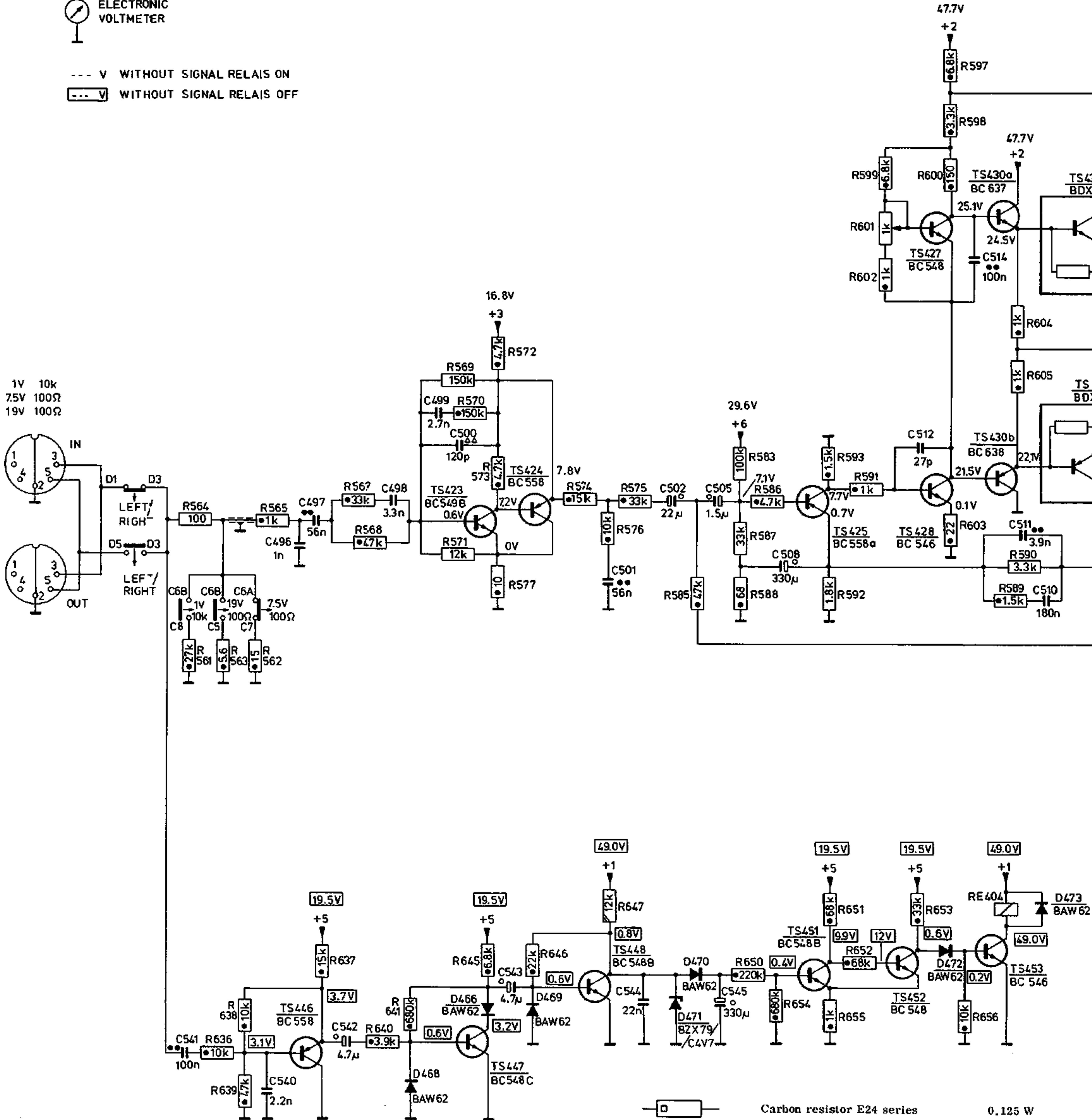


MISC	TS423										TS424		TS425				TS428,427		TS430a, 430b		TS431															
MISC	TS446		D468		D466		TS447		D469		TS448		D471		D470		TS451		TS452		D472		TS453		RE404		D473									
C	496		497		498		499		500		501		502		505		508		512		514		511		510											
C	541		542		543		544		545																											
R	561+564		565		567		568		569+571		572		577		574+576		585		583		587		588		593		592		597+602		603+605		589		590	
R	636		638		639		637		640		641		645		646		647		650		654		651		655		653		656							



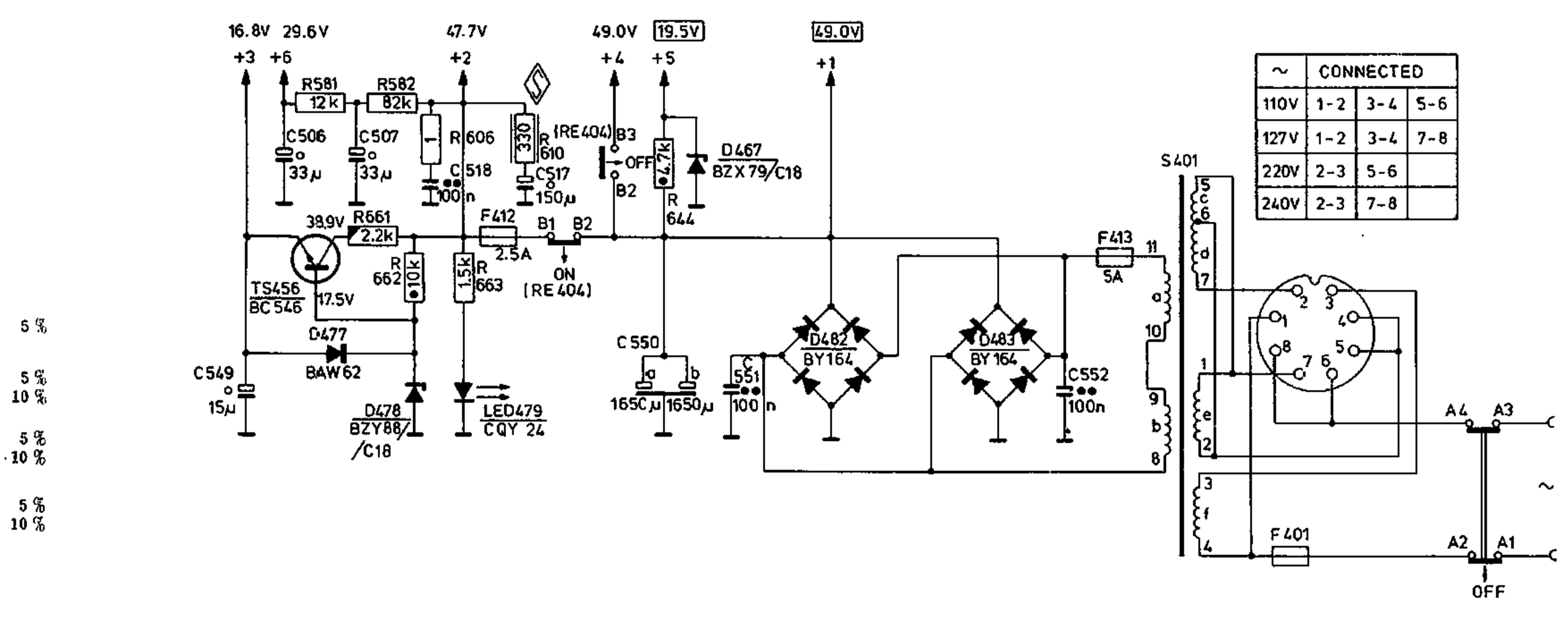
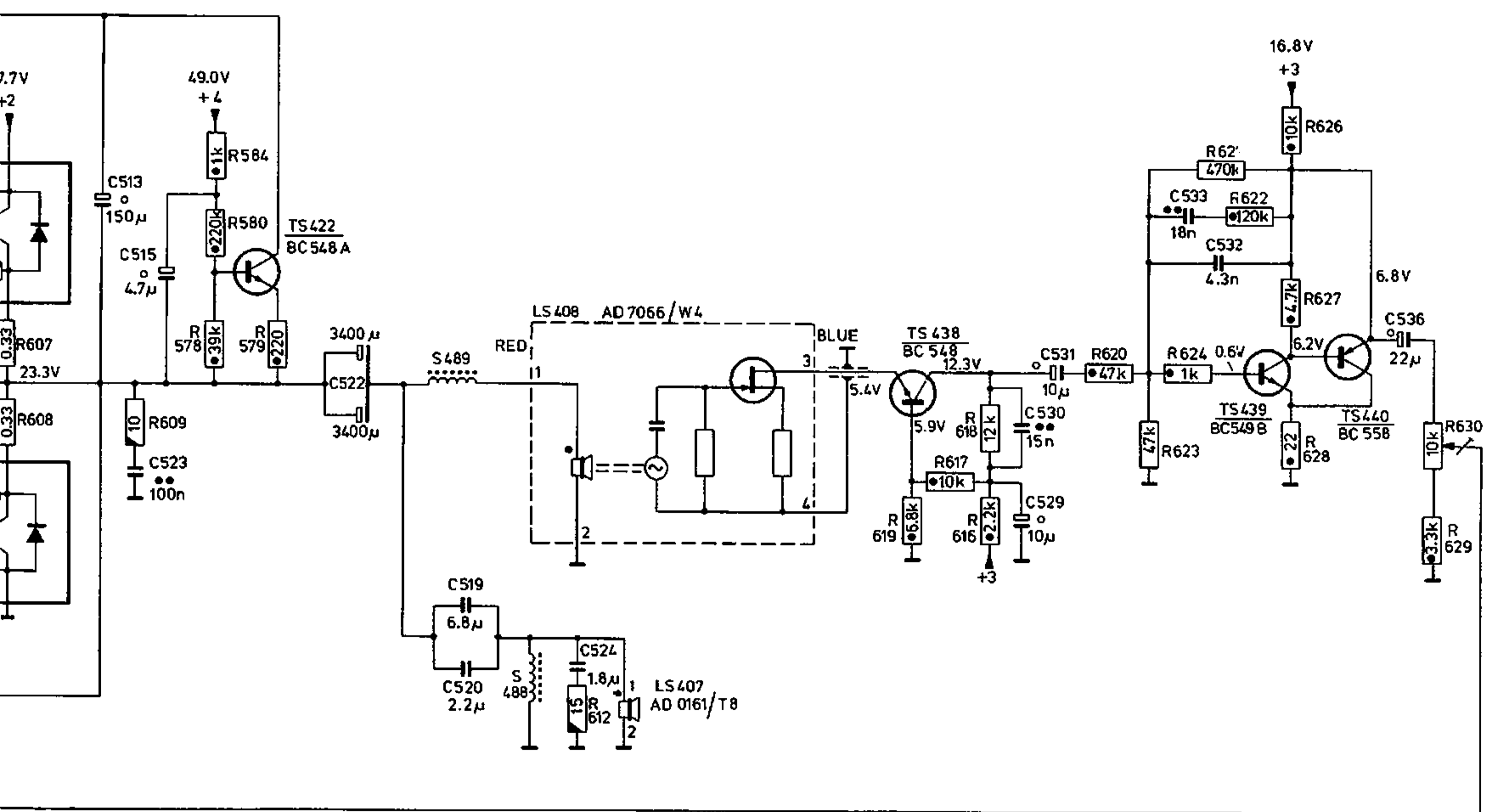
--- V WITHOUT SIGNAL RELAYS ON
 --- V WITHOUT SIGNAL RELAYS OFF

1V 10k
 7.5V 100Ω
 19V 100Ω

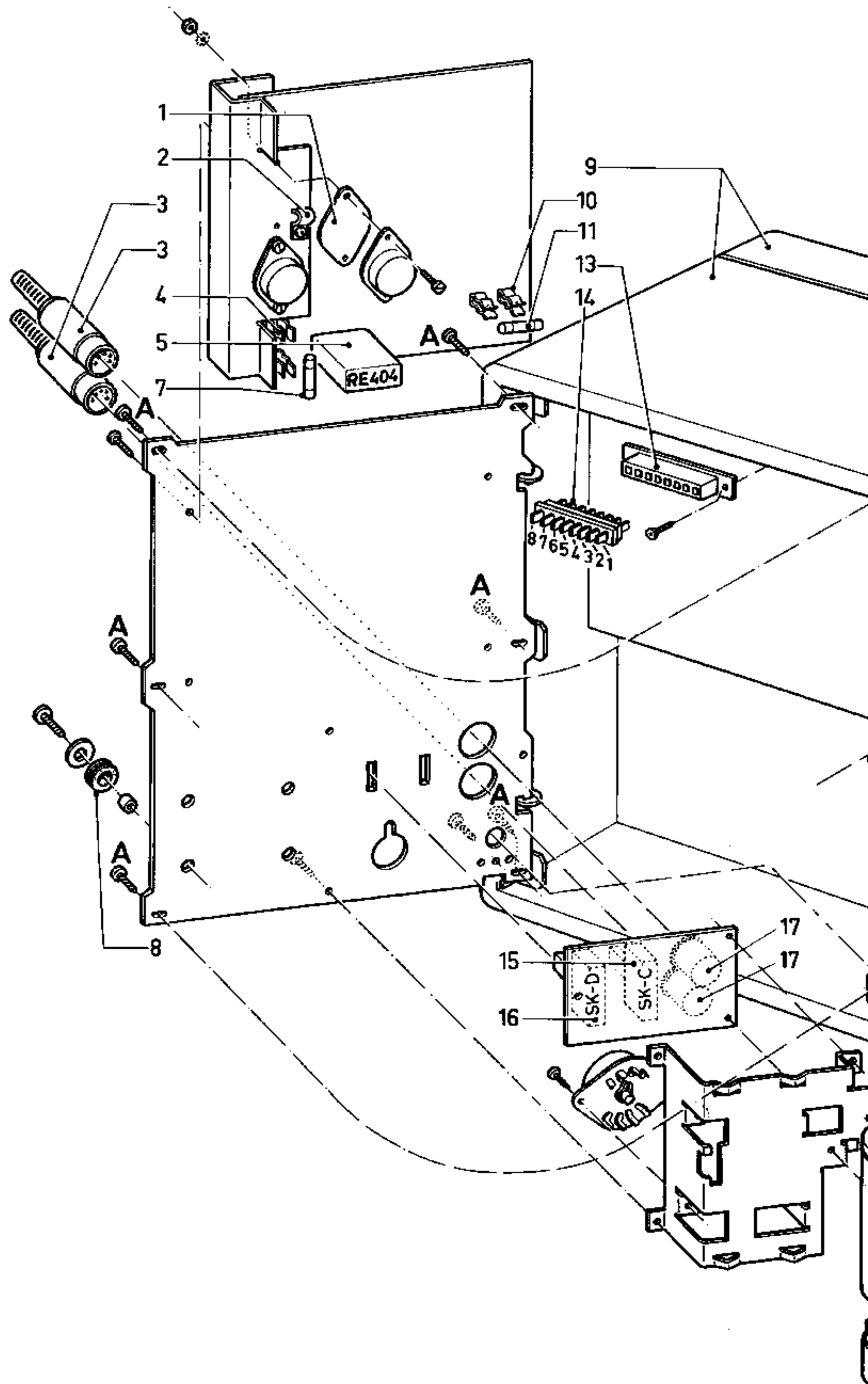


- Carbon resistor E24 series 0.125 W
- Carbon resistor E12 series 0.25 W < 1 MΩ
- Carbon resistor E12 series 0.5 W < 1.5 MΩ
- Carbon resistor E12 series 1 W < 2.2 MΩ
- Safety carbon resistor
- Flat-foil polyester capacitor
- Miniature electrolytic capacitor

434b	TS422	S489	S488	LS407	LS408	TS 438	TS439	TS440	MISC								
	TS456	D477	D478	D479	F412	D477	D482	D483	F413	S401	F401						
	513	515	523	522	519	520	52L	530	529	531	533	532	536	C			
		549	506	507	518		517	550	551		552			C			
607	608	609	578	584	580	579		612		619	616+618	620	621+674	626+628	630	629	R
		581	661	582	662	606	663	610	644								R

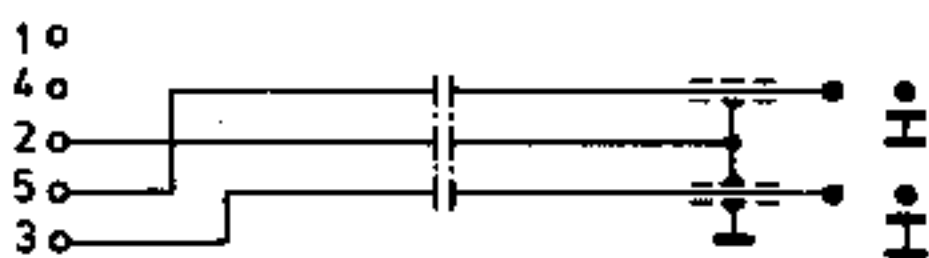


6701E



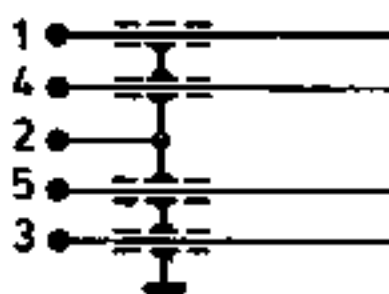
- 1 4822 466 70156
- 2 4822 255 40127
- 3 4822 264 40023
- 4 4822 492 60063
- 5 4822 280 60437
- 7 4822 253 30029
- 8 4822 325 60197
- 9 4822 445 10048
- 10 4822 492 60063
- 11 4822 253 30026
- 13 4822 267 50206
- 14 4822 264 50081
- 15 4822 277 20187
- 16 4822 277 20185
- 17 4822 267 40182
- 19 4822 276 10615
- 20 4822 404 60103
- 21 4822 404 10141
- 22 4822 445 30031
- 23 4822 240 70009
- 25 4822 445 30029
- 26 4822 240 50092
- 27 4822 445 30028

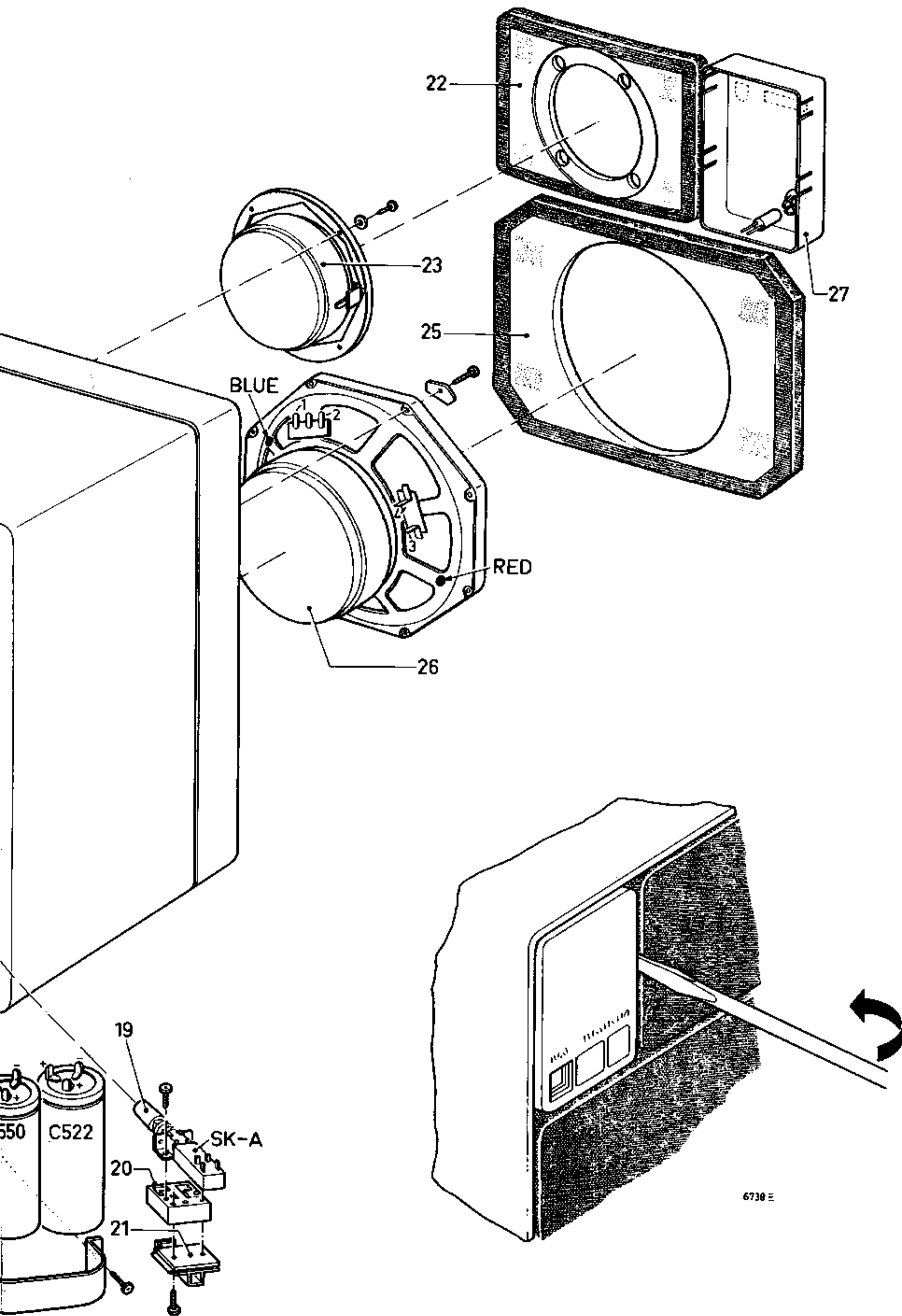
4822 321 20337
0.15 m



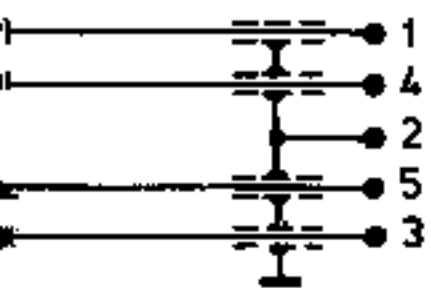
5613A

4822 321 20207
1.50 m



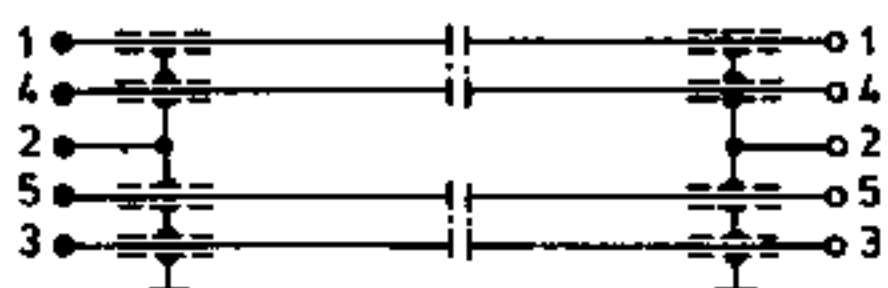
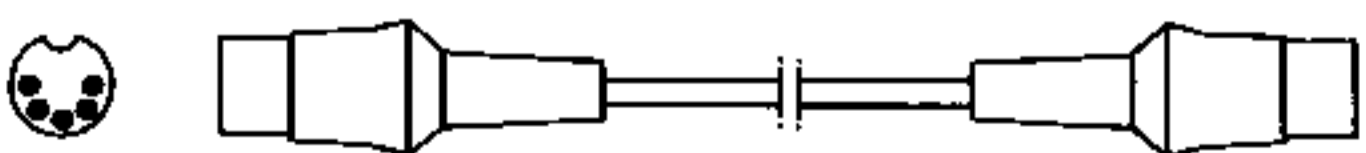


4822 321 20295
2.50 m




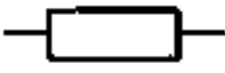


5622A

4822 321 20294
2.50 m



4822 321 20336
5.00 m

5609A

-TS- 			-R- 		
TS422	BC548A	4822 130 40948	R564	100 Ω - 5 W wire wound	4822 112 21081
TS423	BC549B	4822 130 40936	R569	250 kΩ - MR25	5322 116 54713
TS424	BC558	4822 130 40941	R571	12 kΩ - MR25	5322 116 50572
TS425	BC558A	4822 130 40962	R581	12 kΩ - MR25	5322 116 50572
TS427	BC548	4822 130 40938	R582	82 kΩ - MR25	5322 116 54689
TS428	BC546	4822 130 41001	R583	100 kΩ - MR25	5322 116 54696
TS430a-b	BC637-BC638	4822 130 41056	R587	33 kΩ - MR25	5322 116 50482
TS434a-b	BDX65-BDX64	4822 130 41057	R590	3,3 kΩ - MR25	5322 116 54005
TS438	BC548	4822 130 40938	R592	1.8 kΩ - MR25	5322 116 54568
TS439	BC549B	4822 130 40936	R601	1 kΩ potentiometer	4822 101 10005
TS440	BC558	4822 130 40941	R606	1 Ω - CR37	4822 110 53027
TS446	BC558	4822 130 40941	R607	0.33 Ω - 2.6 W wire wound	5322 113 60019
TS447	BC548C	5322 130 44196	R608	0.33 Ω - 2.6 W wire wound	5322 113 60019
TS448	BC548B	4822 130 40937	R610	330 Ω - safety CR25	4822 111 30458
TS451	BC548B	4822 130 40937	R618	12 kΩ - MR25	5322 116 50572
TS452	BC548	4822 130 40938	R621	470 kΩ - MR30	5322 116 54336
TS453	BC546	4822 130 41001	R623	47 kΩ - MR25	5322 116 54671
TS456	BC546	4822 130 41001	R630	10 kΩ potentiometer	4822 101 10021
			R663	1.5 kΩ - 5 W wire wound	4822 112 21112
-D- 			-Miscellaneous-		
D466	BAW62	5322 130 30613	S401	Mains transformer	4822 146 20506
D467	BZX79/C18	5322 130 34076	F401	Fuse	4822 252 20007
D468	BAW62	5322 130 30613	RE404	Relais	4822 280 60437
D469	BAW62	5322 130 30613	S407	Speaker AD0161/T8	4822 240 70009
D470	BAW62	5322 130 30613	S408	Speaker AD7066/W4MFB	4822 240 50092
D471	BZX79/C4V7	5322 130 30264	F412	Fuse 2.5A	4822 253 30026
D472	BAW62	5322 130 30613	F413	Fuse 5A	4822 253 30029
D473	BAW62	5322 130 30613	D479	CQY24 LED	4822 130 30885
D477	BAW62	5322 130 30613	S488	Coil 0.5 mH	4822 157 50775
D478	BZY88/C18	5322 130 30304	S489	Coil 0.8 mH	4822 157 50816
D479	CQY24 LED	4822 130 30885			
D482	BY164	5322 130 30414			
D483	BY164	5322 130 30414			
-C- 					
C496	1 nF plate cap.	4822 122 31175			
C498	3,3 nF micro poco	4822 121 50389			
C499	2.7 nF micro poco	4822 121 50474			
C510	180 nF flat. cap.	4822 121 40206			
C512	27 pF plate cap.	4822 122 30045			
C519	6.8 μF plate cap.	4822 121 40463			
C520	2.2 μF plate cap.	4822 121 40456			
C522	2x3400 μF elco	4822 124 70315			
C524	1.8 μF plate cap.	4822 121 40454			
C532	4.3 nF micro poco	5322 121 54062			
C540	2.2 nF plate cap.	4822 122 30114			
C544	22 nF plate cap.	5322 122 30103			
C550	2x1650 μF elco 63 V	5322 124 70199			

Service mededeling

PHILIPS NEDERLAND B.V. - EINDHOVEN
TECHNISCHE SERVICE

Ref. R 306

Type 22 RH 541

Datum november 1975

MOTIONAL FEED-BACK BOX

Het bestelnummer van de MFB luidspreker pos.26 moet zijn:
4822 240 50099 i.p.v. 4822 240 50092.



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Service mededeling

PHILIPS NEDERLAND B.V. - EINDHOVEN
TECHNISCHE SERVICE

Ref. R 328

Type 22RH541

Datum januari 1976

Onder stempeling PL01 zijn onderstaande wijzigingen ingevoerd.
C512 van 27 pF gewijzigd in 56 pF bestelnummer 4822 122 31074.
R610 en C517 toegevoegd. R610 en C517 waren reeds in de service-
documentatie verwerkt.

Correctie service-documentatie.

De waarden welke op de voorpagina staan bij de IN aansluitbus en
SK-C zijn onjuist. Deze moeten de waarden hebben welke in het
principeschema staan vermeld.



PHILIPS

Service mededeling

PHILIPS NEDERLAND B.V. - EINDHOVEN
TECHNISCHE SERVICE

Ref. R 399

Type 22 RH 541

Datum december 1977

RADIO

Vanaf stempeling PL 02 wordt de
tweeter AD 0162/T8 toegepast.
Het bestelnummer luidt: 4822 240 70014

Vanaf stempeling PL 03 wordt de
tweeter AD 0140/T8 toegepast
Deze wordt geleverd onder bestelnummer
4822 240 70011



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