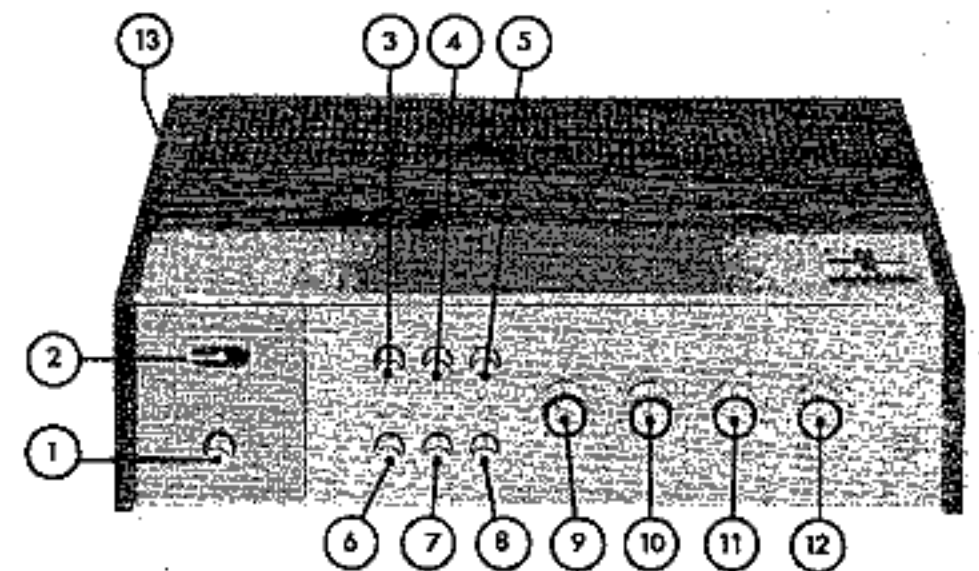


Service manual

Hi-Fi 22RH590

00T/00Z/15T/16Z/22Z/33T/43T



Dimensions: 360 x 87 x 225 mm

TRA3571

PHILIPS



① On/off switch Aan/uitschakelaar Comm. marche/arrêt Ein/Aus-Schalter Interruptor Interruptore Till/från omkopplare Afbryder På/Av vender On/ei kytkin SK-A	⑤ Mono/stereo switch Mono/stereo schakelaar Comm. mono/stéréo Mono/Stereo Schalter Comm. mono/estéreo Comm. monofonia/stereofonia Mono/stereo omkopplare Mono/stereo-omskifter Mono/stereo-vender Mono/stereo kytkin SK-H	⑩ Balance control Balansregelaar Equilibreur Symmetrieeinsteller Reg. de equilibrio Equilibrio Balanskontroll Balancekontroll Balansekontroll Tasaussäädin R575
② On/off indicator Aan/uit indikator Indicateur marche/arrêt Ein/Aus-Indikator Indicador de red Indicatore de rete Nät-indikator Kontrolllys Nettindikator Merkkivalo LA427	⑥ P. U. switch P. U. schakelaar Comm. de P. U. T. A. -Schalter Comm. de fonocaptor Comm. giradischi Grammofon omkopplare P. U. -omskifter P. U. -vender Äänirasia kytkin SK-B	⑪ Bass control Lage-tonenregelaar Commande des basses Basseinsteller Reg. de tonos graves Bassi Baskontroll Baskontroll Basskontroll Mataliensäädin R607
③ Rumble switch Rumble-schakelaar Comm. de anti-ronflement Rumpelschalter Comm. de zumbido Interruttore rumble Rumble omkopplare Rummel-omskifter Rumbel-vender Rumble kytkin SK-G	⑦ Tuner switch Tuner-schakelaar Comm. d'accord Abstimm-Schalter Comm. de sintonizador Comm. di sintonizzazione Tuner-omkopplare Afstemning omskifter Tuner-vender Viritin kytkin SK-D	⑫ Treble control Hogetonenregelaar Commande des aigües Hochtoneinsteller Reg. de tonos agudos Acuti Diskantkontroll Diskantkontroll Diskantkontroll Korkeidensäädin R615
④ Scratch switch Scratch-schakelaar Comm. de antiparasite Kratzschalter Comm. de ruido Interruttore scratch Rasp omkopplare Nålestøj-omskifter Scratch-vender Scratch kytkin SK-F	⑧ Recorder switch Magnetofon-schakelaar Comm. magnétophone T. B. Schalter Comm. de magnetófono Interruttore registratore Bandspelar-omkopplare Båndoptager-omskifter Båndoptaker-vender Nauhuri kytkin SK-E	⑬ PU switch (magn. X-tal) P. U. schak. (dyn-kristal) Comm. P. U. (dyn-cristal) T. A. -Schalter (dyn-Kristall) Comm. tocadiscos (din-cristal) SK-J
	⑨ Volume control Volumeregelaar Commande de volume Lautstärkeinsteller Control de volumen Controlo del volume Volymkontroll Volumenkontroll Volumkontroll Voimakkuussäädin R585	Int. giradischi (magn. X-tal) Gramm. omkopplare (magn-kristall) Omskifter P. U. (dyn.-Krystal) P. U. vender (magn. X-tall) Äänirasia kytkin (dyn-kide)

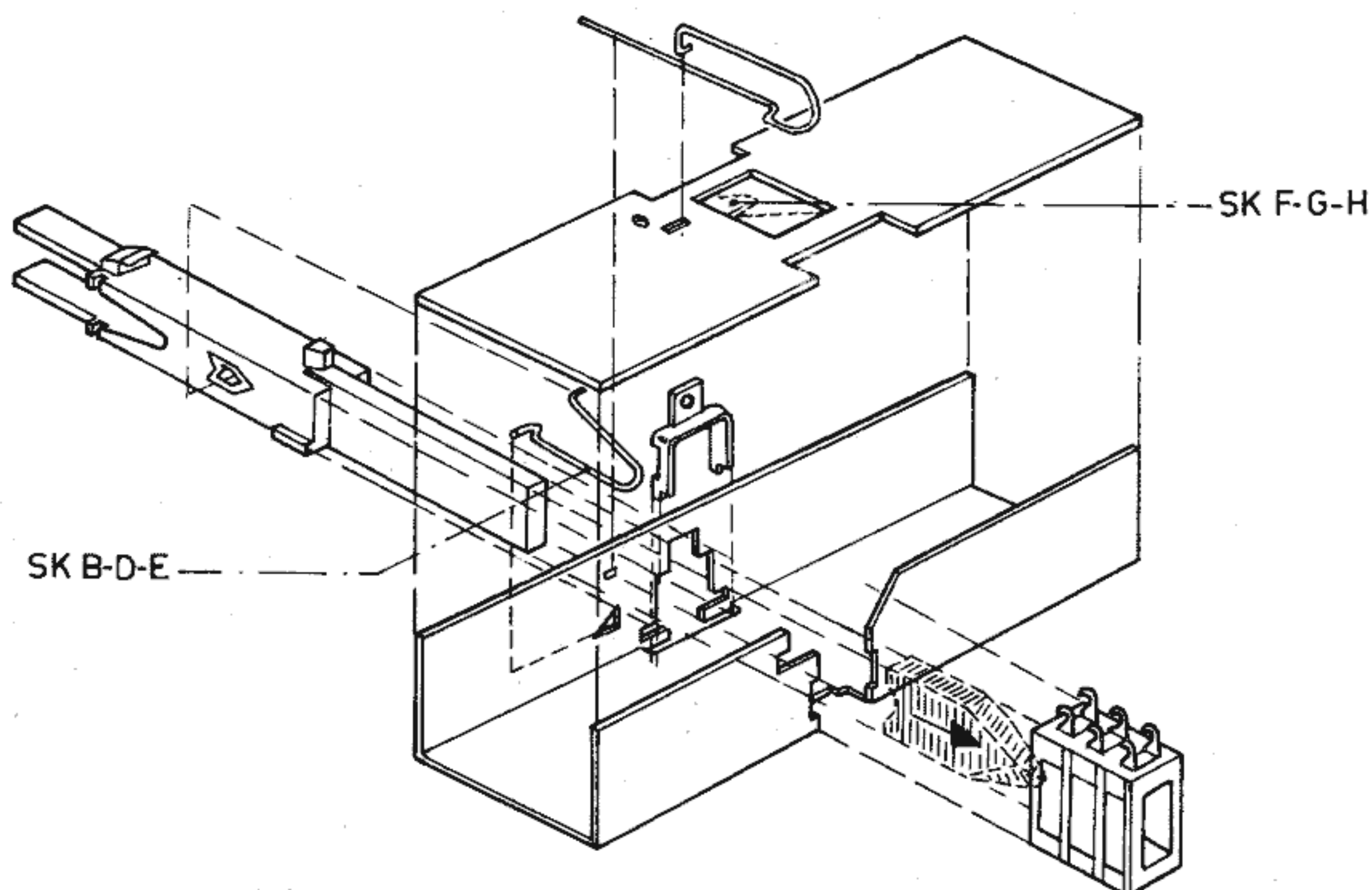
Index: CS22259-CS22263



Subject to modification

4822 725 10361

Printed in the Netherlands



TRA 3458

Immediately after switching on the set, adjust the collector current of TS415b and TS416b to 30-33 mA d.c. with the aid of R643 and R644. After adjustment, these currents may increase to 40 mA.

Onmiddellijk na het inschakelen van het apparaat, m. b. v. R643 en R644 de collectorstromen van TS415b respectievelijk TS416b instellen op 30-33 mA. Deze collectorstromen kunnen na instelling oplopen tot 40 mA.

Immédiatement après la mise en service de l'appareil, au moyen de R643 et R644 régler les courants collecteurs de TS415b resp. TS416b sur 30-33 mA. Après réglage les courants collecteurs peuvent être augmentés jusqu'à 40 mA.

Direkt nach Einschalten des Gerätes die Kollektorströme von TS415b bzw. TS416b mit R643 und R644 auf 30...33 mA einstellen. Die Kollektorströme können nach Einstellung bis zu 40 mA ansteigen.

Immediatamente después de poner en marcha el aparato, ajustar con R643 y R644 las corrientes de colector de TS415b y TS416b a 30-33 mA. Después del ajuste, estas corrientes de colector pueden aumentar hasta 40 mA.

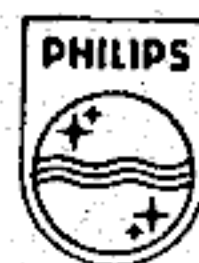
Immediatamente dopo la messa in marcia dell apparecchio, con R643 e R644, regolare le correnti del collettore di TS415b e TS416b su di 30-33 mA. Dopo regolazione le correnti del collettore possono essere innalzate fino ai 40 mA.

Omedelbart efter att mottagaren tillslagsits, justeras kollektorströmmen för TS415b och TS416b till 30-33 mA med R643 resp. R644. Efter justeringen kan dessa strömmar tillåtas att öka till 40 mA.

Straks apparatet er tændt, justeres kollektorstrømmen i TS415b og TS416b til 30-33 mA, henholdsvis med R643 og R644. Efter justering må disse strømmene stige til 40 mA.

Straks apparatet er slått på, justeres kollektorstrømmen til TS415b og TS416b til 30-33 mA med henholdsvis R643 og R644. Etter justering kan disse strømmene øke til 40 mA.

Välittömästi laitteen päällekytkemisen jälkeen säädetään TS415b kollektorivirta R643:lla ja vastaavasti TS416b kollektorivirta R644:llä 30-33 mA:iin. Säädön jälkeen nämä virrat voivat nousta 40 mA:n.



28-4-1970	22RH590	Ba 1317
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Information

During production the following modifications have been made:

Versions /00/15/16: - Under code PL01, capacitors C524 and C525 (2200 pF) and C526 (100 nF) have been fitted.

Version /33: - Under code PL00, the same modifications have been made as in the versions /00/15/16.

These modifications, which were already stated in the Service Notes, have been made to reduce the mains interference sensitivity and the LF detection.

Versions /00/15: - Under code PL02 and versions /42/43 under code PL00, the following modification have been introduced:

R535,536 were 120 k Ω become 56 k Ω

R537,538 were 120 k Ω become 1.2 M Ω

R539,540 were 330 k Ω become 3.3 M Ω

Reason: The noise will be reduced.

(These modifications were already stated in the Service Notes).

Tijdens de produktie zijn in de /00/15/16 onder kode PL01 en in de /33 onder kode PL00. C524,525 (=2200 pF) en C526 (=100 nF) toegevoegd.

Reden: Netstoringsgevoeligheid en LF detektie.

(Deze wijziging is reeds in de dokumentatie aangebracht).

Onder kode PL02 voor /00/15 en kode PL00 voor /42/43 is het hieronder vermeld gewijzigd:

R535,536 was 120 k Ω , wordt 56 k Ω

R537,538 was 120 k Ω , wordt 1,2 M Ω

R539,540 was 330 k Ω , wordt 3,3 M Ω

Reden: ruis.

(Deze wijziging is reeds in de dokumentatie aangebracht).

Sous le numéros de référence PL01 pour les appareils /00/15/16 et PL00 pour les appareils /33 on a ajouté les condensateurs C524, 525 (2200 pF) et C526 (100 nF).

Motif: trop grande sensibilité pour l'interférence secteur et trop forte détection BF
(Cette modification est mentionnée dans la Documentation).

Les numéros de référence PL02, pour les /00/15 et PL00 pour les 42/43 se rapportent aux modifications suivantes:

R535,536 passe de 120 k Ω à 56 k Ω .

R537,538 passe de 120 k Ω à 1,2 M Ω

R539,540 passe de 330 k Ω à 3,3 M Ω .

Motif: trop de bruit.

(Cette modification est également mentionnée dans la Documentation).

Während der Herstellung wurden die Geräte -/00/15/16 unter Code PL01 und Gerät -/33 unter Code PL00 mit den Kondensatoren C524, 525 (=2200 pF) und C526 (=100 nF) bestückt.

Grund: Netzstörungsempfindlichkeit und NF-Demodulation.

(Diese Änderung in der Kundendienstanleitung berücksichtigt.)

Unter Code PL02 wurden in den Geräten -/00/15 und unter Code PL00 in den Geräten -/42/43 nachstehende Änderungen vorgenommen:

R535, 536 war 120 k Ω und ist jetzt 56 k Ω

R537, 538 war 120 k Ω und ist jetzt 1,2 M Ω

R539, 540 war 330 k Ω und ist jetzt 3,3 M Ω

Grund: Das Rauschen musste vermindert werden.

(Diese Änderung wurde in der Kundendienstanleitung berücksichtigt.)

Sotto i numeri di riferimento PL01 per gli apparecchi 00/15/16 e PL00 per il /33 abbiamo inserito i condensatori C524, 525 (2200 pF) e C526 (100 nF).

Motivo: troppa sensibilità all'interferenza della rete e rilevamento BF troppo forte.

(Detta modifica viene ripresa nella Documentazione di Servizio).

I numeri di riferimento PL02 per gli apparecchi /00/15 e PL00 per i tipi 42/43 riguardano le modifiche seguenti:

R535, 536 da 120 k Ω , diventano 56 k Ω .

R537, 538 da 120 k Ω , diventano 1,2 M Ω

R539, 540 da 330 k Ω , diventano 3,3 M Ω .

Motivo: troppo rumore.

(Detta modifica viene anche ripresa nella Documentazione di Servizio).

PHILIPS

Service



13-9-1971	22RH590	Ba 1406
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Information

If LF detection occurs, this can be remedied by including chokes of 100 μ H (4822 158 10243) in series with the emitter lines of TS405, TS406, TS409 and TS410.

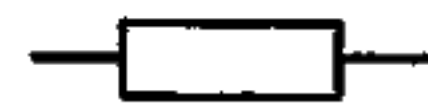
Indien L.F. detectie voorkomt, kan men dit verhelpen door in serie met de emitterleidingen van TS405, TS406, TS409 en TS410 smoorspoeltjes van 100 μ H op te nemen (4822 158 10243).

On peut éviter la démodulation basse fréquence en connectant la liaison émetteur de TS405, TS406, TS409 et TS410 à des selfs de filtrage de 100 μ H (4822 158 10243).

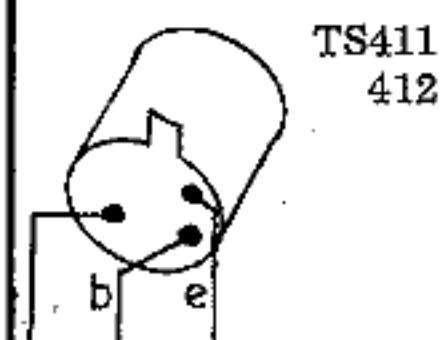
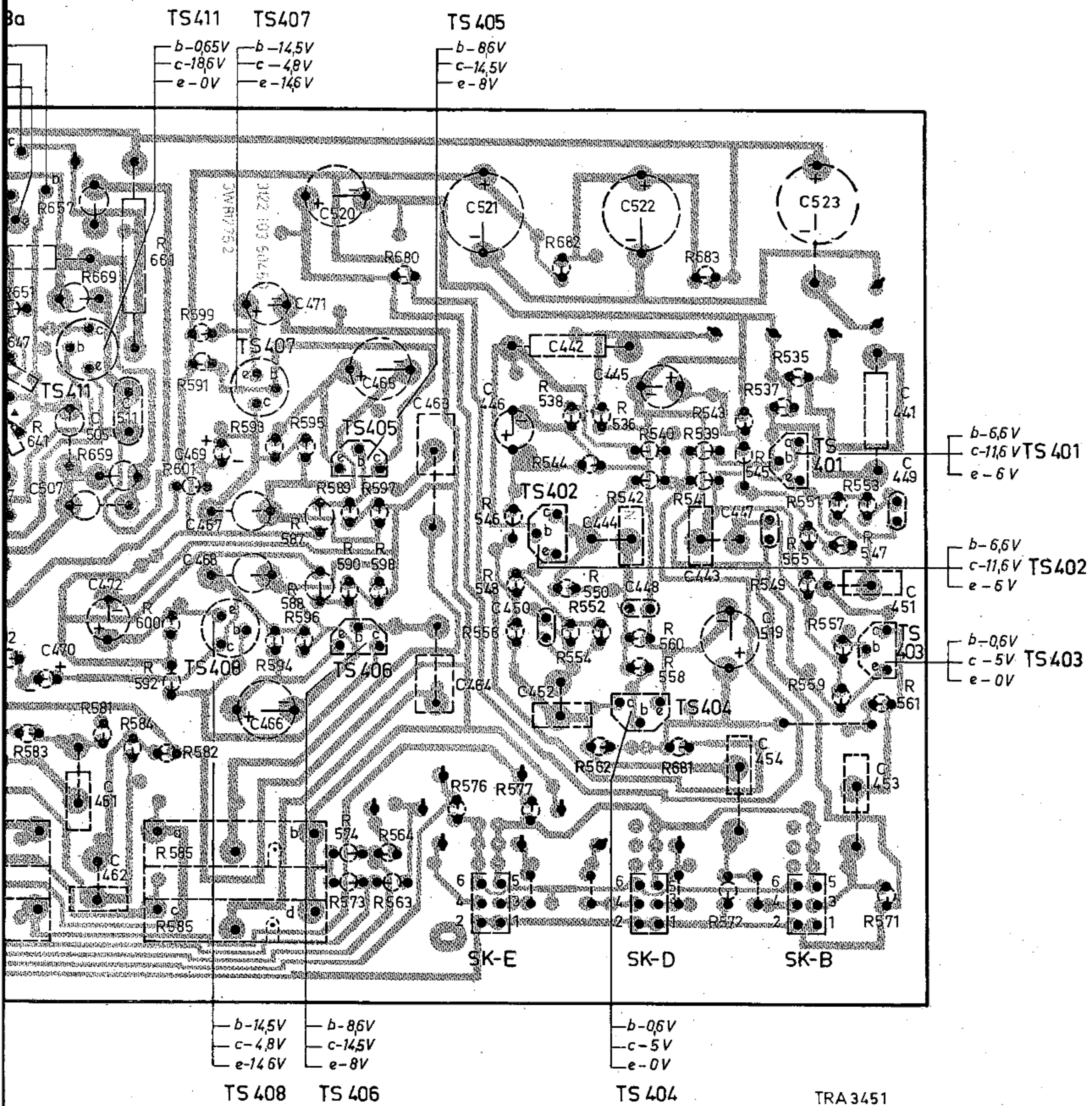
NF-Demodulation kann vermieden werden, indem man in Serie mit den Emitterleitungen von TS405, TS406, TS409 und TS410 Drosselspulen von 100 μ F anordnet (4822 158 10243).

GB		NL		F		D		E	
Foot	4822 462 70586	Voet	4822 462 70586	Pied	4822 462 70586	Fuss	4822 462 70586	Pata	4822 462 70586
Front panel complete /00/16/22/33/43	4822 447 50057	Frontplaat compleet /00/16/22/33/43	4822 447 50057	Panneau avant complet /00/16/22/33/43	4822 447 50057	Frontplatte komplett /00/16/22/33/43	4822 447 50057	Placa frontal completa /00/16/22/33/43	4822 447 50057
Front panel complet /15	4822 447 50062	Frontplaat compleet /15	4822 447 50062	Panneau complet /15	4822 447 50062	Frontplatte komplett /15	4822 447 50062	Placa frontal completa /15	4822 447 50062
Upper side of cabinet (walnut)	4822 447 50058	Bovenkant kast (noten)	4822 447 50058	Demi-coffret supérieur (noix)	4822 447 50058	Gehäuseoberseite (Nussbaum)	4822 447 50058	Parte superior de caja (nogal)	4822 447 50058
Upper side of cabinet (teak)	4822 447 50061	Bovenkant kast (teak)	4822 447 50061	Demi-coffret supérieur (teck)	4822 447 50061	Gehäuseoberseite (Teak)	4822 447 50061	Parte superior de caja (teca)	4822 447 50061
Walnut side panel of cabinet (2)	4822 447 50056	Zijwand (noten, 2 stuks)	4822 447 50056	Panneau latéral (noix, 2 p.)	4822 447 50056	Seitenwand (Nussbaum, 2 St.)	4822 447 50056	Panel lateral (nogal, 2 piezas)	4822 447 50056
Teak side panel of cabinet (2)	4822 447 50059	Zijwand (teak, 2 stuks)	4822 447 50059	Panneau latéral (teck, 2 p.)	4822 447 50059	Seitenwand (Teak, 2 St.)	4822 447 50059	Panel lateral (teca, 2 piezas)	4822 447 50059
Lens	4822 381 10261	Lens	4822 381 10261	Lentille	4822 381 10261	Linse	4822 381 10261	Vidrio	4822 381 10261
Grommet of push-button	4822 325 80101	Tule om druktoets	4822 325 80101	Manchon pour touche	4822 325 80101	Tülle um Drucktaste	4822 325 80101	Manguito de tecla	4822 325 80101
Fuse holder	4822 256 30107	Smeltveiligheidshouder	4822 256 30107	Porte-fusible	4822 256 30107	Schmelzsicherungshalter	4822 256 30107	Portafusibles	4822 256 30107
Knob	4822 413 30399	Knop	4822 413 30399	Bouton	4822 413 30399	Knopf	4822 413 30399	Botón	4822 413 30399
Spring for knob	4822 332 20023	Klemveer knop	4822 332 20023	Ressort de serrage du bouton	4822 332 20023	Haltefeder Knopf	4822 332 20023	Resorte fij. botón	4822 332 20023
Push-button	4822 410 20895	Druktoets	4822 410 20895	Touche	4822 410 20895	Drucktaste	4822 410 20895	Tecla	4822 410 20895
Push-button (mains switch)	4822 410 20896	Druktoets (netschakelaar)	4822 410 20896	Touche (interrupteur secteur)	4822 410 20896	Drucktaste (Netzschalter)	4822 410 20896	Tecla (interruptor de red)	4822 410 20896
Casing of slide switch	4822 278 40001	Huis schuifschakelaar	4822 278 40001	Boîte commutateur à tiroir	4822 278 40001	Gehäuse Schiebeschalter	4822 278 40001	Caja conmutador deslizante	4822 278 40001
Switch/rec. player (magn. - X-tal)	4822 277 20091	Schakelaar PU (dyn.-kristal)	4822 277 20091	Commutateur PU (cristal-dyn.)	4822 277 20091	Schalter TA (dyn.-Kristall)	4822 277 20091	Conmutador tocadiscos (din. cristal)	4822 277 20091
Mains switch	4822 276 10337	Netschakelaar	4822 276 10337	Interrupteur secteur	4822 276 10337	Netzschalter	4822 276 10337	Interruptor de red	4822 276 10337
Push-button unit (bottom)	4822 276 30163	Druktoetsenheid (onder)	4822 276 30163	Ens. clavier (au-dessous)	4822 276 30163	Drucktasteneinheit (unten)	4822 276 30163	Unidad de teclas (inferior)	4822 276 30163
Push-button unit (top)	4822 276 30164	Druktoetsenheid (boven)	4822 276 30164	Ens. clavier (au-dessus)	4822 276 30164	Drucktasteneinheit (oben)	4822 276 30164	Unidad de teclas (superior)	4822 276 30164
Socket, 5-pole	4822 267 40039	Aansluiting 5polig	4822 267 40039	Prise pentapolaire	4822 267 40039	Anschluss, 5polig	4822 267 40039	Enchufe pentapolar	4822 267 40039
Plug, 5-pole	4822 264 40023	Steker 5polig	4822 264 40023	Fiche pentapolaire	4822 264 40023	Stecker, 5polig	4822 264 40023	Clavija pentapolar	4822 264 40023
Socket L. S.	4822 267 40073	Aansluiting L. S.	4822 267 40073	Prise H. P.	4822 267 40073	Anschluss L. S.	4822 267 40073	Enchufe, altavoz	4822 267 40073
Plug L. S.	4822 264 30041	Steker L. S.	4822 264 30041	Fiche H. P.	4822 264 30041	Stecker L. S.	4822 264 30041	Clavija, altavoz	4822 264 30041
Lamp holder	4822 255 10007	Lamphouder	4822 255 10007	Support de lampe	4822 255 10007	Lampenfassung	4822 255 10007	Portalámparas	4822 255 10007
Insulation plate AD149	4822 466 70156	Isolatieplaat bev. AD149	4822 466 70156	Fix. plaque d'isolation AD149	4822 466 70156	Isolierplatte Bef. AD149	4822 466 70156	Placa aislante fijac. AD149	4822 466 70156
Insulation bush AD149	4822 532 50695	Isolatiebus bev. AD149	4822 532 50695	Fix. douille isolante AD149	4822 532 50695	Isolierbuchse Bef. AD149	4822 532 50695	Tubo aislante fijac. AD149	4822 532 50695

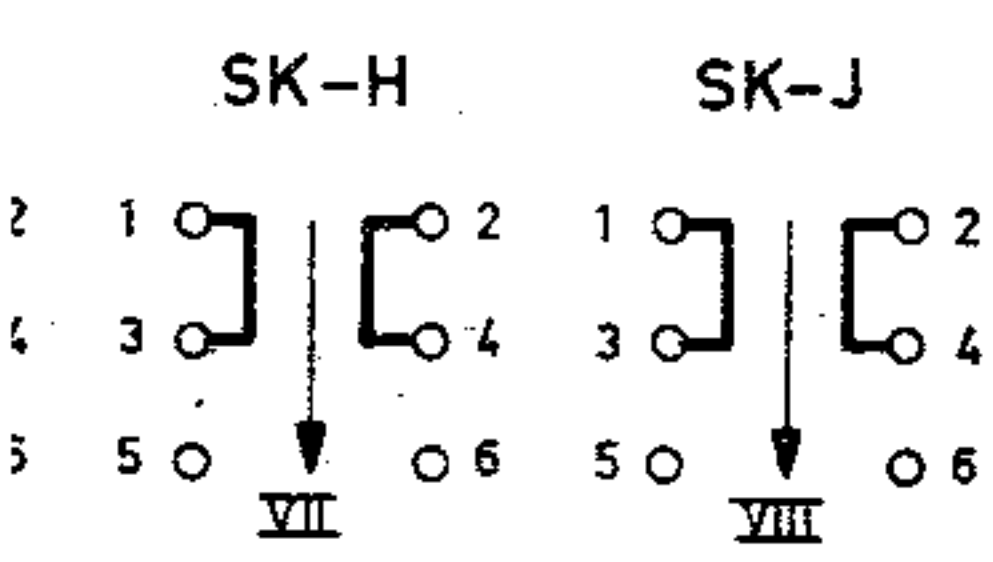
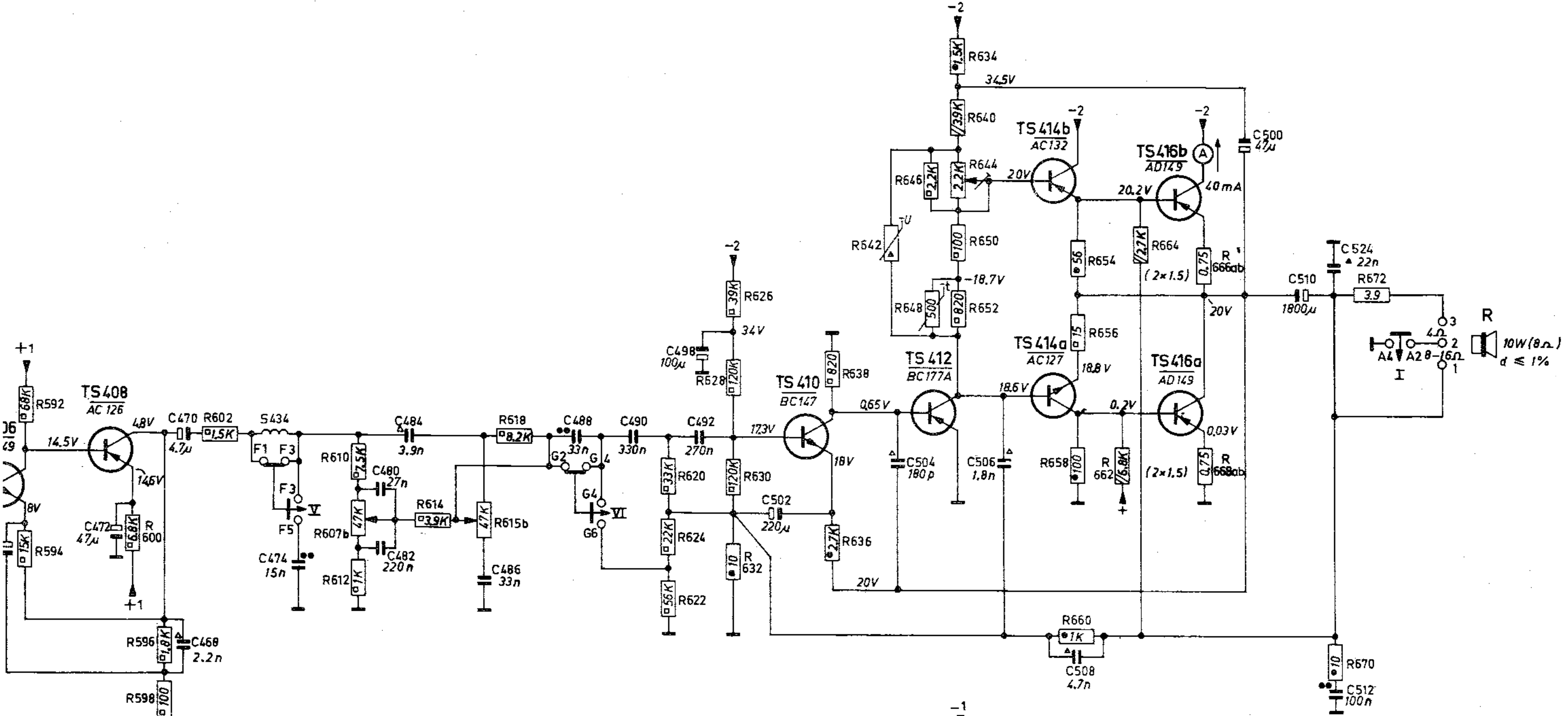
I		S		DK		N		SF	
Piede	4822 462 70586	Fot	4822 462 70586	Fod	4822 462 70586	Fot	4822 462 70586	Jalka	4822 462 70586
Riquadro frontale completo /00/16/22/33/43	4822 447 50057	Frontplatta, komplett /00/16/22/33/43	4822 447 50057	Frontplade (complet) /00/16/22/33/43	4822 447 50057	Frontpanel, kompl. /00/16/22/33/43	4822 447 50057	Etulevy täydellinen /00/16/22/33/43	4822 447 50057
Riquadro frontale completo /15	4822 447 50062	Frontplatta, komplett /15	4822 447 50062	Frontplade (complet) /15	4822 447 50062	Frontpanel, kompl. /15	4822 447 50062	Etulevy täydellinen /15	4822 447 50062
Parte sup. del cassetto (noce)	4822 447 50058	Låda, överdel (valnöt)	4822 447 50058	Kabinet-overside (valnöt)	4822 447 50058	Overside av kabinett (valnött)	4822 447 50058	Laatikon yläsivu (pähkinäpuu)	4822 447 50058
Parte sup. del cassetto (teck)	4822 447 50061	Låda, överdel (teak)	4822 447 50061	Kabinet-overside (teak)	4822 447 50061	Overside av kabinett (teak)	4822 447 50061	Laatikon yläsivu (teak)	4822 447 50061
Due riquadri del cassetto (noce)	4822 447 50056	Lådgavel (valnöt, 2)	4822 447 50056	Kabinet-side (v + h, valnöt)	4822 447 50056	Sidepanel av kabinett (valnött, begge)	4822 447 50056	Laatikon sivuseinä (pähkinäpuu, molemmat)	4822 447 50056
Due riquadri del cassetto (teck)	4822 447 50059	Lådgavel (teak, 2)	4822 447 50059	Kabinet-side (v+h, teak)	4822 447 50059	Sidepanel av kabinett (teak, begge)	4822 447 50059	Laatikon sivuseinä (teak, molemmat)	4822 447 50059
Lente	4822 381 10261	Lins	4822 381 10261	Linse	4822 381 10261	Linse	4822 381 10261	Linssi	4822 381 10261
Manicotto di tasto	4822 325 80101	Genomföring för tryck-knapp	4822 325 80101	Tylle for trykknapp	4822 325 80101	Gjennomføring for trykknapp	4822 325 80101	Näppäimen läpivienti	4822 325 80101
Portafusible	4822 256 30107	Säkringshållare	4822 256 30107	Sikringsholder	4822 256 30107	Sikringsholder	4822 256 30107	Sulakepidin	4822 256 30107
Bottone	4822 413 30399	Ratt	4822 413 30399	Knap	4822 413 30399	Knapp	4822 413 30399	Nuppi	4822 413 30399
Molla di fissaggio bottone	4822 332 20023	Rattfjäder	4822 332 20023	Skrue for knap	4822 332 20023	Fjær for knapp	4822 332 20023	Nipin jousi	4822 332 20023
Tasto	4822 410 20895	Tangent	4822 410 20895	Trykknapp	4822 410 20895	Trykknapp	4822 410 20895	Näppäin	4822 410 20895
Tasto (interuttore settore)	4822 410 20896	Tangent (nätströmbrytare)	4822 410 20896	Trykknapp (netafbryder)	4822 410 20896	Trykknapp (nettbryter)	4822 410 20896	Näppäin (verkkokytkin)	4822 410 20896
Riparto del com. scorrimento	4822 278 40001	Kåpa för slidomkopplare	4822 278 40001	Hus for skydeomskifter	4822 278 40001	Hus for sleidevender	4822 278 40001	Liukukytkeimen kuori	4822 278 40001
Interruttore giradischi (magn. X-tal)	4822 277 20091	Grammofonkopplare (magn./kristall)	4822 277 20091	Omskifter P. U. (magneto-dyn. -krystal)	4822 277 20091	P. U. vender (magn., X-tall)	4822 277 20091	Äänirasia kytkin (magn. dyn. -kide)	4822 277 20091
Interruttore settore	4822 276 10337	Nätströmbrytare	4822 276 10337	Netafbryder	4822 276 10337	Nettbryter	4822 276 10337	Verkkokytkin	4822 276 10337
Insieme tastiera (sotto)	4822 276 30163	Tangentenhet (nedre)	4822 276 30163	Trykknappenhet (bund)	4822 276 30163	Trykknappsats (nedre)	4822 276 30163	Näppäinyksikkö (alapuoli)	4822 276 30163
Insieme tastiera (sopra)	4822 276 30164	Tangentenhet (övre)	4822 276 30164	Trykknappenhet (top)	4822 276 30164	Trykknappsats (övre)	4822 276 30164	Näppäinyksikkö (yläpuoli)	4822 276 30164
Presa (5 pol.)	4822 267 40039	Uttag, 5-polig	4822 267 40039	Bøsning, 5-polet	4822 267 40039	Kontakt, 5-polet	4822 267 40039	Pistukka, 5-napainen	4822 267 40039
Spina (5 pol.)	4822 264 40023	Kontaktplugg, dito 5-polig	4822 264 40023	Stik, 5-polet	4822 264 40023	Plugg, 5-polet	4822 264 40023	Pistike, 5-napainen	4822 264 40023
Presa, altoparlante	4822 267 40073	Högtalaruttag	4822 267 40073	Bøsning, höjtaler	4822 267 40073	Kontakt for høyttaler	4822 267 40073	Kaiutinpistukka	4822 267 40073
Spina, altoparlante	4822 264 30041	Kontaktplugg, högtalare	4822 264 30041	Stik, höjtaler	4822 264 30041	Plugg for høyttaler	4822 264 30041	Kaiutinpistike	4822 264 30041
Sostegno di lampada	4822 255 10007	Lamphållara	4822 255 10007	Lampeholder	4822 255 10007	Lampeholder	4822 255 10007	Lampunpidin	4822 255 10007
Piastra isolante AD149	4822 255 70156	Isoleringsbricka för AD149	4822 255 70156	Isolationsplade AD149	4822 255 70156	Isolasjonsplate AD149	4822 255 70156	Eristyslevy AD149	4822 255 70156
Tubo isolante AD149	4822 532 50695	Isoleringsrör för AD149	4822 532 50695	Isolationrør AD149	4822 532 50695	Isolasjonshylse AD149	4822 532 50695	Eristysputki AD149	4822 532 50695

TS 				D 				C 			
TS401,402	4822 130 40215	BC149		C441,442	4822 121 40197	1	μF	100 V			
TS403,404	4822 130 40318	BC148B		C443,444	4822 121 40061	220	nF	250 V			
TS405,406	4822 130 40215	BC149		C445,446	4822 124 20382	100	μF	40 V			
TS407,408	4822 130 40236	AC126		C447,448	4822 122 30027	1000	pF	40 V			
TS409,410	4822 130 40311	BC147		C449,450	4822 122 30057	2700	pF	40 V			
TS411,412	4822 130 40315	BC177A		C451,452	4822 121 40236	8200	pF	250 V			
TS413a,b	4822 130 40475	AC132/AC127-03		C453,454	4822 121 40061	220	nF	250 V			
TS414a,b	4822 130 40475	AC132/AC127-03		C461,462	4822 124 40035	150	nF	250 V			
TS415a,b	4822 130 40386	2-AD149		C463,464	4822 121 40044	560	nF	250 V			
TS416a,b	4822 130 40386	2-AD149		C465,466	4822 124 20384	100	μF	40 V			
D421,422	4822 130 30192	BY126		C469,470	4822 124 20346	4.7	μF	63 V			
D423,424	4822 130 30192	BY126		C471,472	4822 124 20374	47	μF	40 V			
D425	4822 130 30256	BA148		C479,480	4822 121 40038	27	nF	250 V			
R 				C481,482	4822 121 40061	220	nF	250 V			
				C485,486	4822 121 40092	33	nF	250 V			
R537,538	4822 110 50189	1.2 M Ω	1/8 W	C489,490	4822 121 40009	330	nF	250 V			
R539,540	4822 110 50174	3.3 M Ω	1/8 W	C491,492	4822 121 40097	270	nF	250 V			
R549,550	4822 110 50185	560 k Ω	1/8 W	C497,498	4822 124 20384	100	μF	40 V			
R575	4822 102 30133	220 k Ω		C499,500	4822 124 20374	47	μF	40 V			
R585	4822 102 30132	20 k Ω +200 k Ω		C501,502	4822 124 20398	220	μF	25 V			
R589,590	4822 110 50183	680 k Ω	1/8 W	C509,510	4822 124 70025	1800	μF	40 V			
R607,615	4822 102 30131	47 k Ω		C516	4822 124 70012	4000	μF	40 V			
R641,642	4822 116 20063			C517,518	4822 121 40098	390	nF	250 V			
R643,644	4822 100 10027	2200 Ω		C519,520	4822 124 20388	150	μF	25 V			
R647,648	4822 116 30011	500 Ω		C521,522	4822 124 20394	150	μF	40 V			
R665,666	4822 116 60008	2x1.5 Ω (par)	1/4 W	C523	4822 124 20404	330	μF	63 V			
R667,668	4822 116 60008	2x1.5 Ω (par)	1/4 W	LA427	4822 134 40005	6.3	V	100 mA			
R671,672	4822 113 80119	3.9 Ω	8 W	VL428,429	4822 253 20019	1.25	A				
				VL430	4822 253 30013	0.25	A				
				VL431	4822 252 20001						
				S433,434	4822 156 10346						
				S436	4822 146 20379						

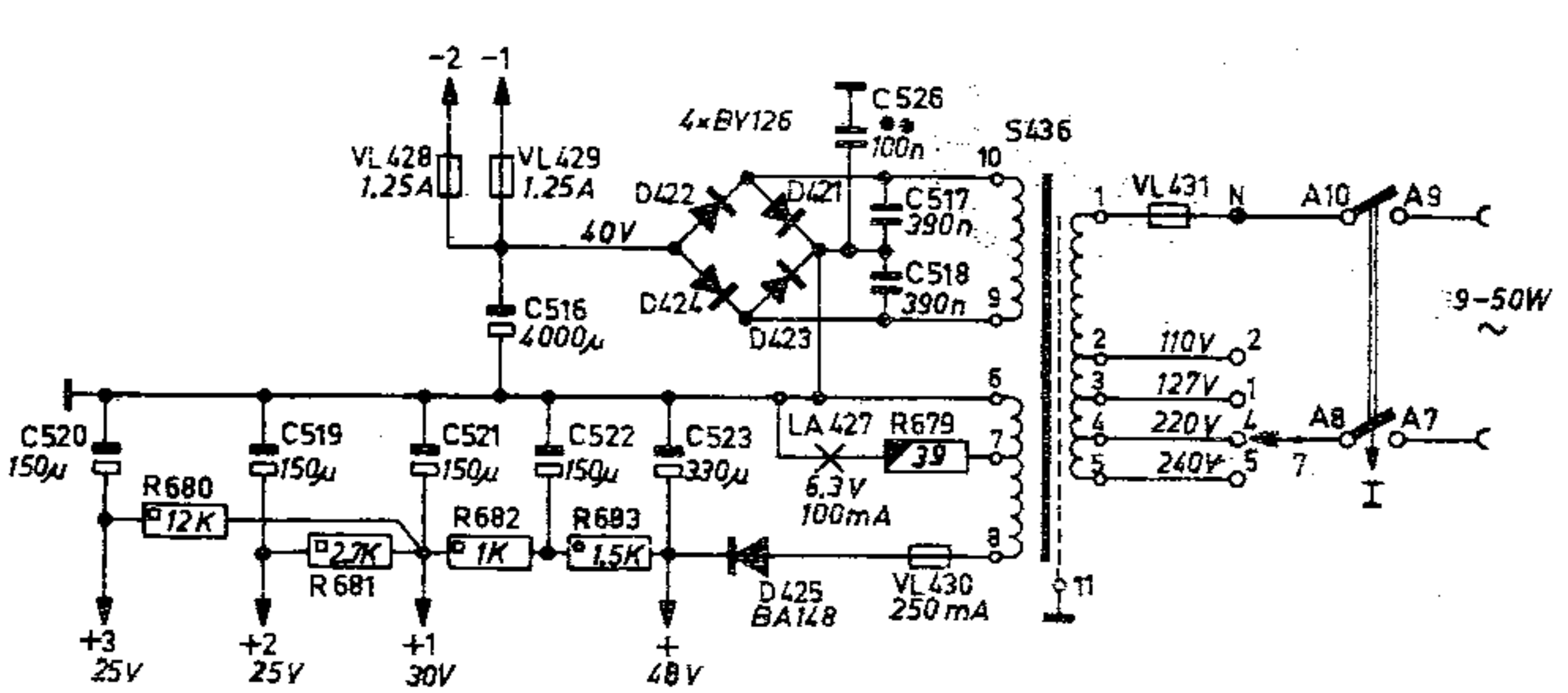
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470.507.462.461.472.	468.467.	466.	464.	450.452.	448.	447.454.	453.451.449.	C		
1.641.657.669.661.	599.	595.	590.598.589.597.680.538.682.544.	536.550.552.562.539.543.683.681.572.537.535.	R					
659.584.592.600.601.585abcd.582.591.593.594.588.587.596.573.574.563.564.576.556.548.546.577.554.558.560.545.549.555.551.559.557.553.547.571.561.								R		



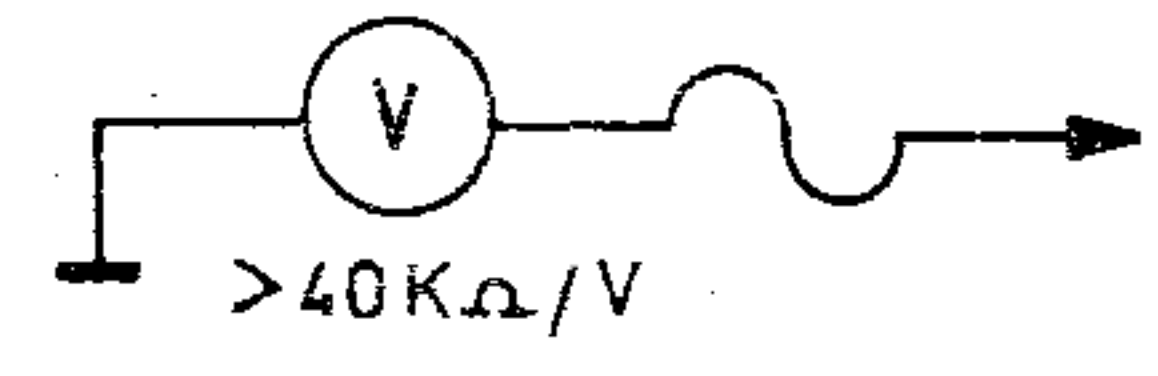
434, 433.														436.										S
472.	470, 468.	474.	480, 482, 484.	486.	488.	490.	492, 498.	502, 520, 519.	504, 521, 516, 522.	506, 523.	508, 517, 518.	500.	510.	512, 524.	C									
471.	469, 467.	473.	479, 481, 483.	485.	487.	489.	491, 497.	501.	503.	505.	507.	526.	499.	509, 511, 525.	C									
594.	600, 596, 598, 602.		610, 607b, 612.	614.	615b, 618.		620, 624, 622, 626, 628, 630, 632.	638, 636, 642.	646.	648, 654, 640, 644, 650, 652.	660, 654, 656, 658.	662, 664, 666, 668.	670.	672.	R									
593.	599, 595, 597, 601.		609, 607a, 611.	613.	615a, 617.		619, 623, 621, 625, 627, 629, 631.	637, 635, 680, 641, 681, 645, 682, 647, 636, 639, 643.	649, 651, 683, 699, 653, 655, 657, 679, 661, 663, 665, 667.					669.	671.	R								

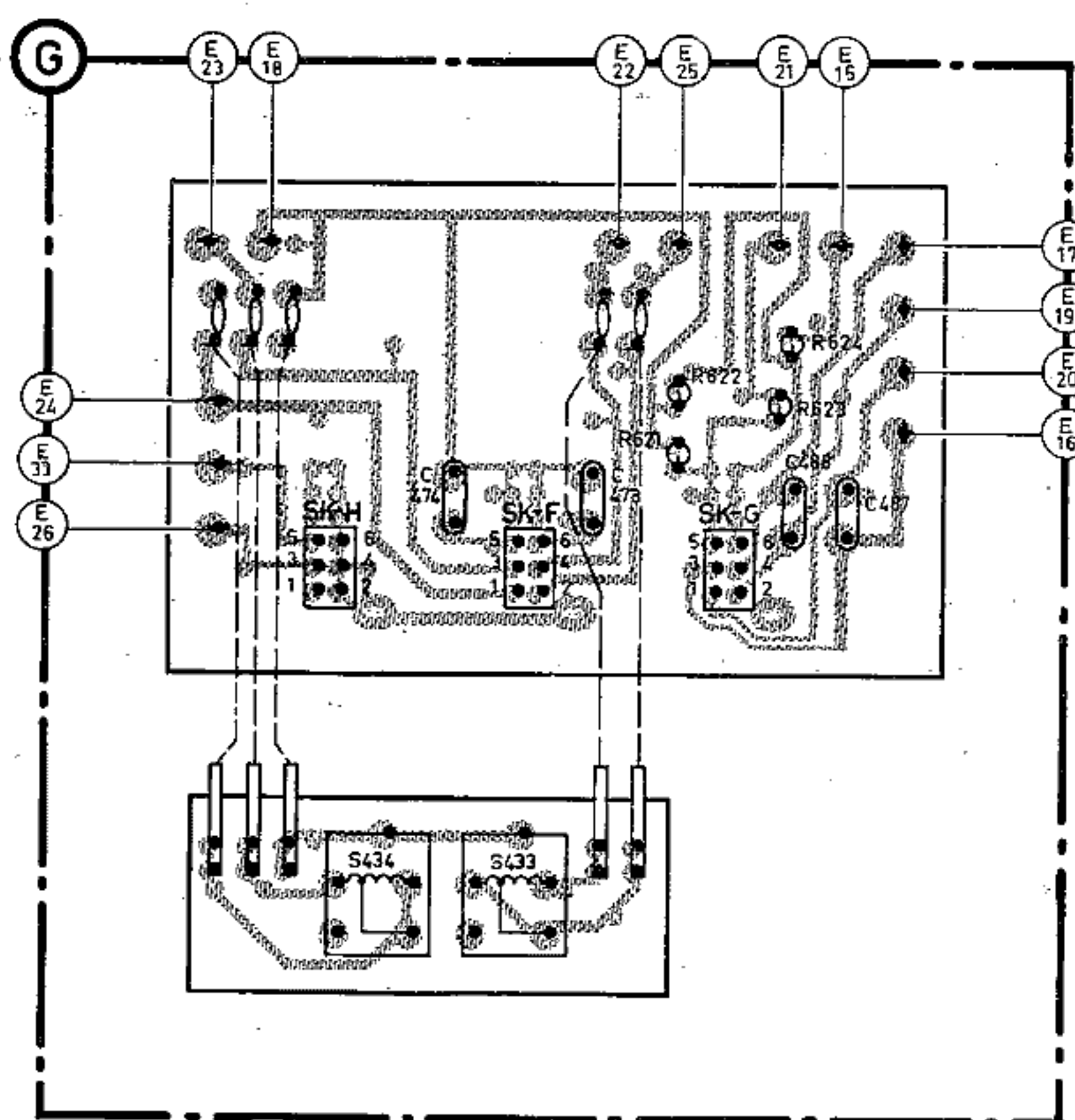
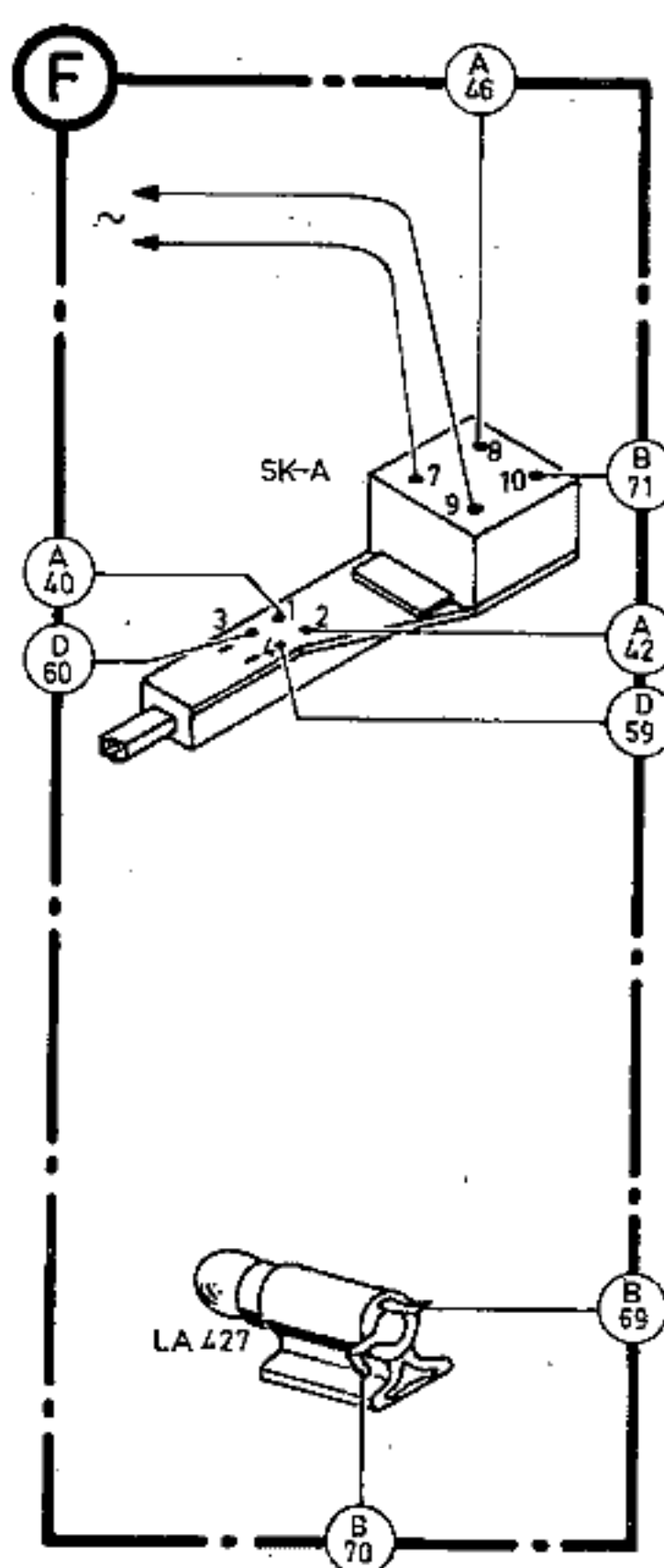
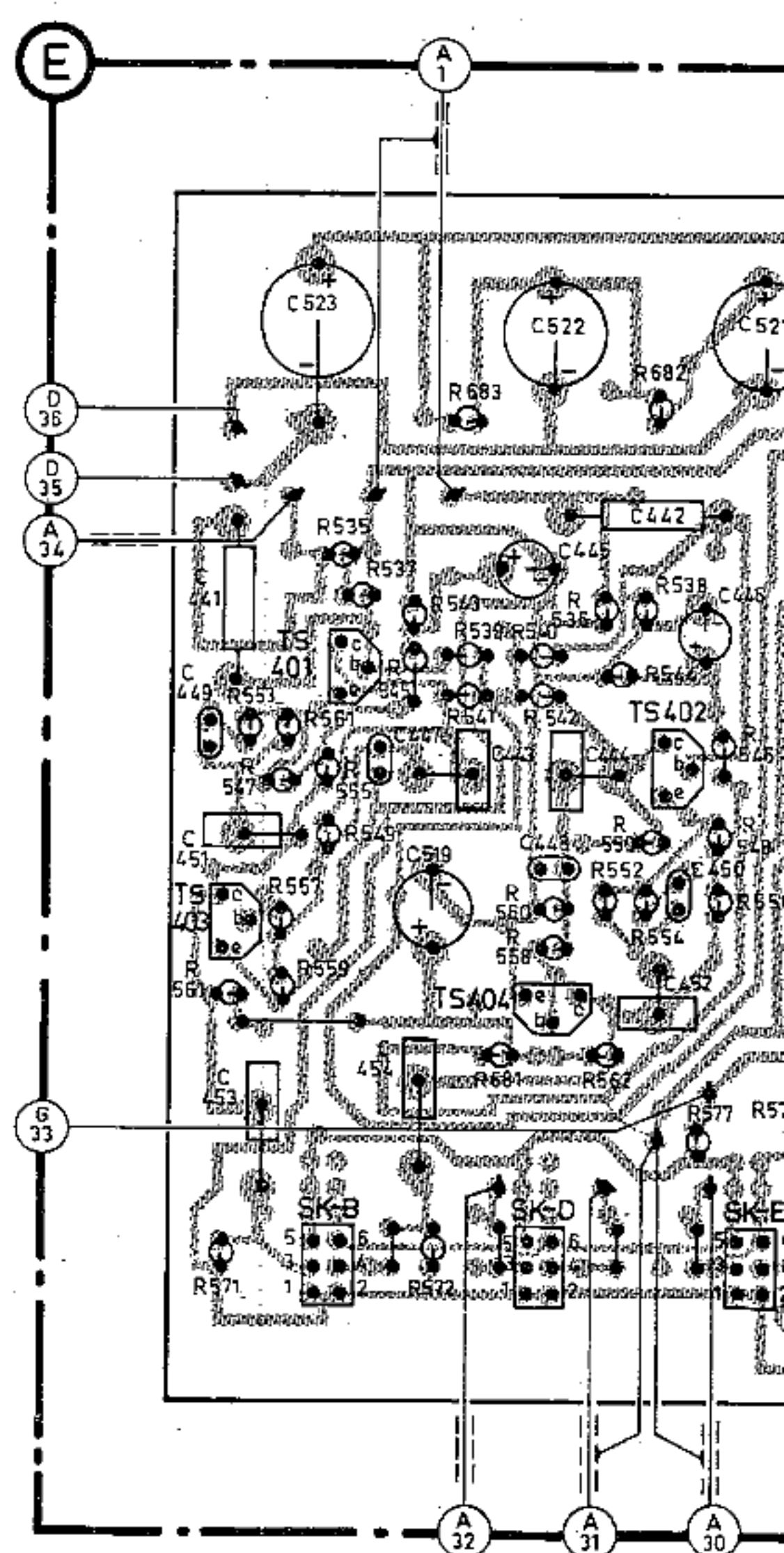
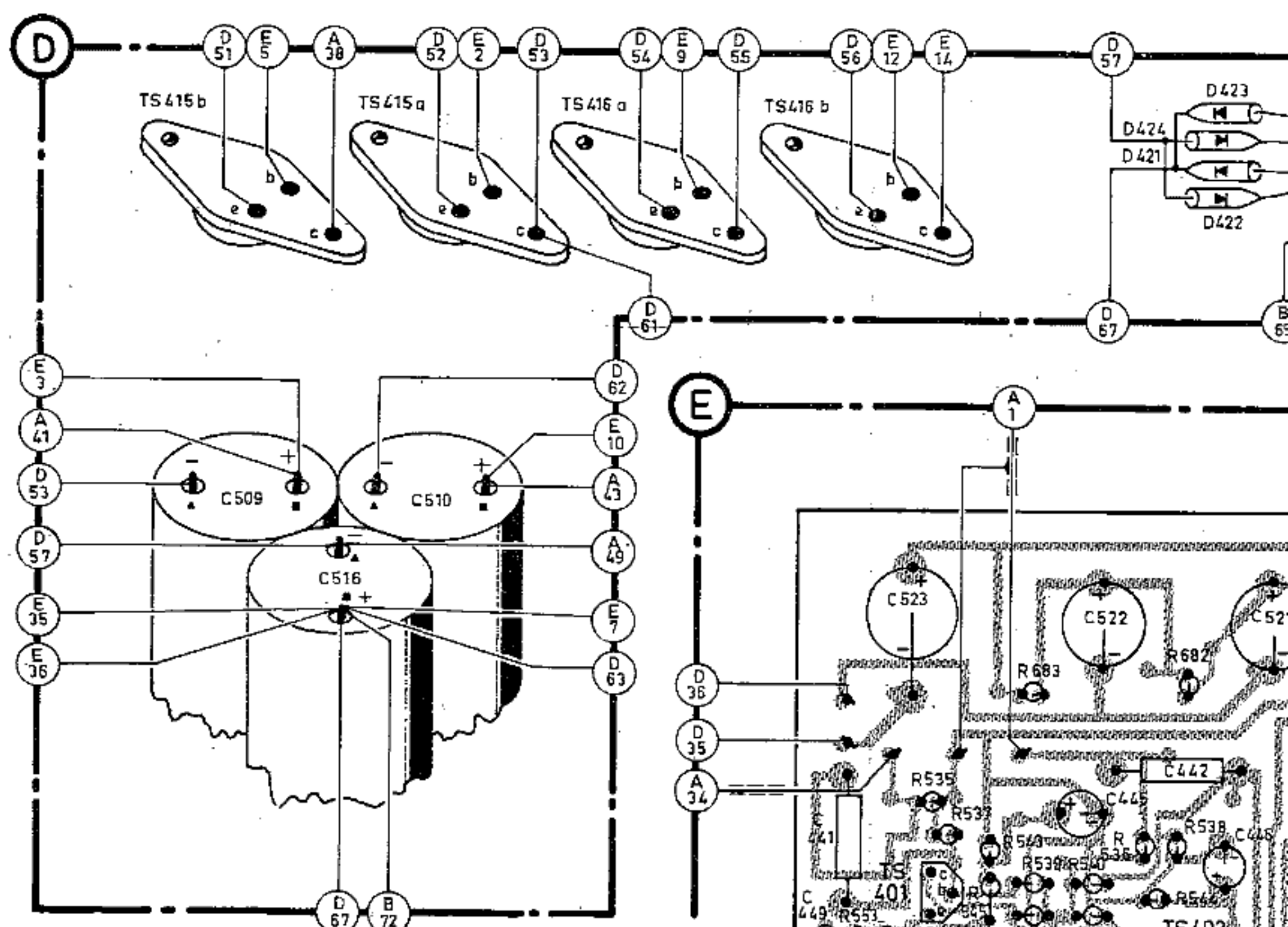
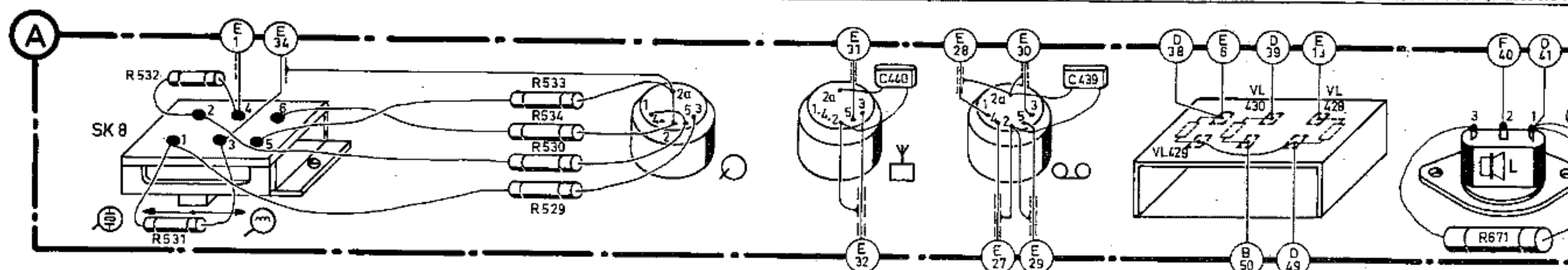


S436	1-2	2-3	3-4	4-5	6-7	7-8	9-10
V	110	17	93	20	6.7	28.3	27.5
mA (max.)					100	20	1200



- I ON
- II P.U.
- III TUNER
- IV RECORDER
- V SCRATCH
- VI RUMBLE
- VII MONO
- VIII P.U. DYN.



[illegible]

WIRING EXAMPLE:	Wire
VOORBEELD BEDRADING:	Draad
EXEMPLE DE CABLAGE:	Le fil
VERDRAHTUNGSBEISPIEL:	Draht
EJEMPLO DE CABLEADO:	El hilo
ESEMPIO DI CABLAGGIO:	Il filo
KOPPLINGSEXEMPEL:	Ledning
LEDNINGSEKSEMPEL:	Ledning
EKSEMPEL PÅ LEDNINGSFØRING:	Ledning
LANGOITUS ESIMERKKI:	Johdin

																436	S			
441.	523.	522.445.				442.	446.	521.463.517.465.518.520.471.	526.459.	511.	505.	503.	497.499.	512.	506.	504.	498.	500.		
449.451.453.	454.	447.	443.448.	444.	452.450.	464.525.	524.	465.	457.468.	472.461.462.507.470.	481.482.501.	480.	491.479.	508.	489.	486.485.490.	483.	492.	502.	484.
535.537.572.881.683.539.-643.562.552.503.636.715.44.682.538.680.597.598.589.590.667.659.672.667.599.665.66.668.66.661.669.657.64.651.64.766.666.66.653.64.365.635.64.963.96.45.662.670.658.64.26.486.526.79.66.654.64.4.556.650.636.540.646.634.																				
561.571.547.553.557.559.551.555.64.9.64.5.560.558.554.577.546.548.555.576.564.563.574.573.596.587.588.594.593.591.582.585.6.6.6.601.600.592.584.659.581.583.602.637.631.627.629.575.6.611.612.625.633.660.6.6.60.670.6.609.673.619.638.632.617.614.628.630.618.620.615.6.626.																				

