

# PHILIPS Service

RADIO

22 RL 362/00B/00R



- 1 Battery switch +  
Volume control  
Batterieschakelaar + SK-2
- 2 Volumeregelaar +  
Interrupteur de batterie +  
Commande de volume R 30
- 3 Batterieschalter +  
Lautstärkeregler  
Interruptor +  
Control de volumen

- 2 Tuning  
Afstemming C6-C7  
Syntonisation  
Abstimmung C10-C11  
Sintonía

- 3 Wave range switch  
Golifgebiedeschakelaar  
Comm. de gammes d'ondes SK 1  
Wellenbereichschalter  
Comm. de margees de ondas

Loudspeaker	AD 3415 RX (4 Ω)	Luidspreker	Haut-parleur	Lautsprecher	AD 3415 RX (4 Ω)	Altavoz
IF	452 - 10,7 Mc/s - AM	MF	PE	ZF	452 - 10,7 Mc/s - FM	PI
Battery	6 V (4x1,5 V)	Batterij	Batterie	Batterie	6 V (4x1,5 V)	Batería
Consumption (without signal)	14,5 - 19 mA - AM	Verbrauk (niet der signal)	Communication (sans signal)	Verbrauch (ohne Signal)	14,5 - 19 mA - AM	Consumo (sin señal)
Output power	16,5 - 21 mA - FM	Uitgangsvermo- gen	Puissance de sortie	Ausgangs- leistung	16,5 - 21 mA - FM	Potencia de salida
Dimensions	253x188x170 mm	Afmetingen	Dimensions	Auflösungen	253x188x170 mm	Dimensiones

#### Wave ranges - Golifgebieden - Gammes d'ondes - Wellenbereiche - Márgees de ondas

FM - FM - FM - FM	87,5 - 108 Mc/s
MW - MG - PO - MW - OM	197 - 572 (1600 - 525 kc/s)
LW - LD - GO - LW - OL	1154 - 3000 ( 350 - 150 kc/s)

#### Transistors/Transistoren

TS1 - AP124	TS5 - AF126
TS2 - AP125	TS6 - AC126
TS3 - AF126	TS7 - AC125
TS4 - AF126	TS8,9 - 2-AC126

#### Diodes/Dioden

GR1,3,6 - AA119
GR2 - BA103
GR4,5 - 2-AA110

SERVICE INFORMATION								
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JGB/JD

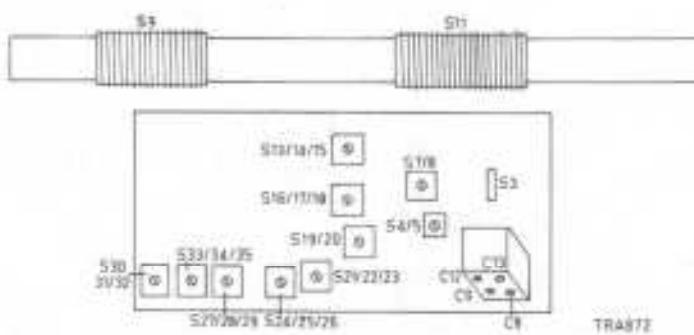
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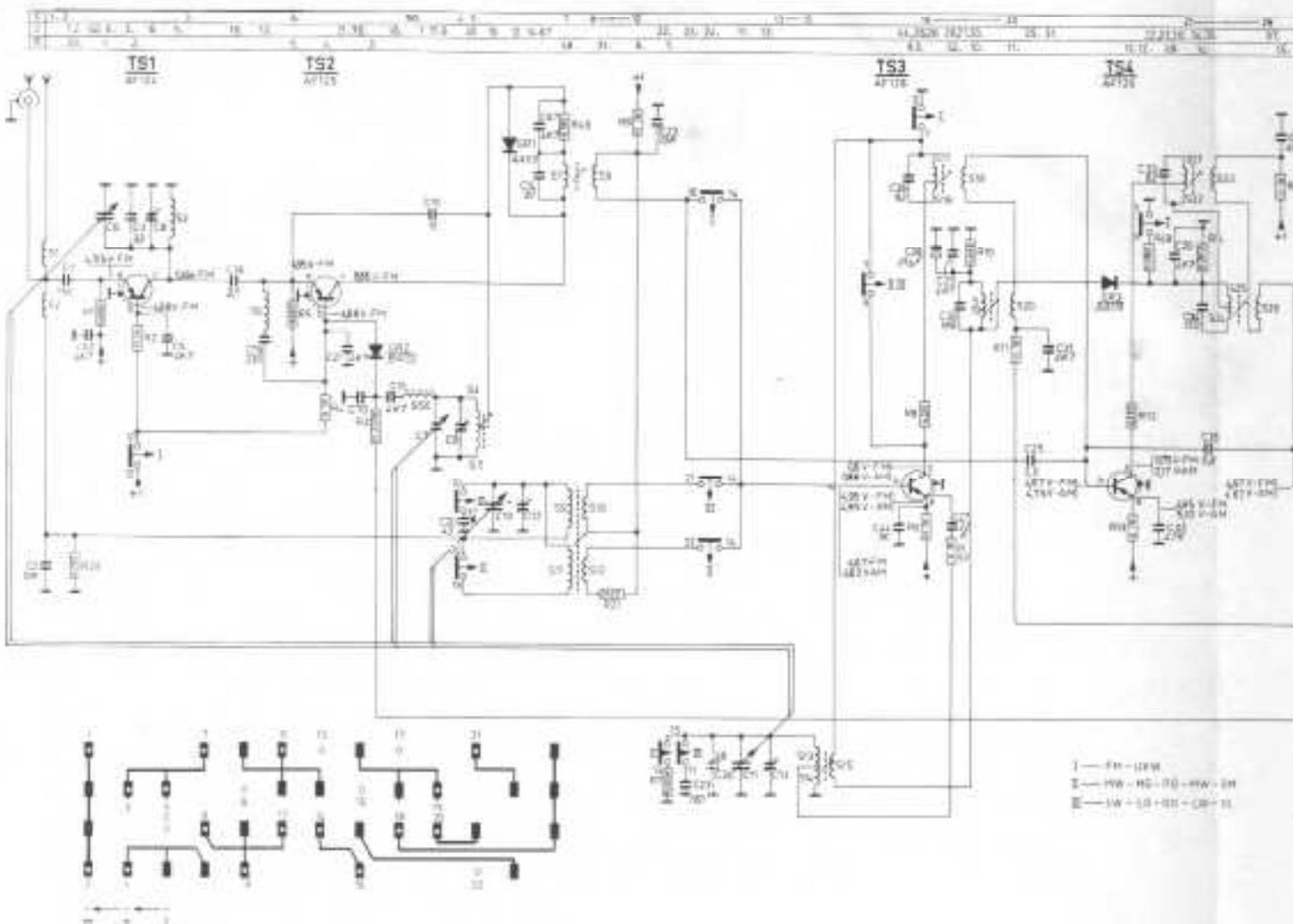
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93 755 74 1-80

Servos-motoren	Wave range Golfschicht Gamme d'ondes Wellenberührte Márgen de ondas	Variable capacitor Varibale condensator Condensateur variable Drehkondensator Condensador variable	Signal Signal Signal Signal Signal	Adjust Afrügeln Régler Abgleichen Ajustar	Indication Anzeiging Indication Anmägen Indicación	
AM	IF MF EL ZF FI	MW MG PO MW OM	Min.	452 kc/s via 33000 pF → cTBS	S30, S1, S2	Max. output
				453,23 kc/s via 33000 pF → cTBS	S24, S5, S6	
				450,75 kc/s via 33000 pF → cTBS	S19, S20	
	LW-LG-GO-LW-OL		Max.	167 kc/s ①	S19, S6, S5	
				1630 kc/s ②	C12 ③	
	RP HF HF RF		Repeat - Herhalen - Répéter - Wiederholen - Repetirne			
				160 kc/s ④	S8 ⑤	
				600 kc/s ⑥	S11 ⑦	
				1500 kc/s ⑧	C12 ⑨	
FM	IF MF EL ZF FI	FM FM FM UKW FM	Max.	10,7 Mc/s → cTBS via 5000 pF	S33, S4, S5 ⑩	0V DV
					S27, S8, S9 ⑪	
				10,7 Mc/s → cTBS via 5000 pF	S23, S2, S3 ⑫	
				10,7 Mc/s → cTBS via 5000 pF	S16, S7, S8 ⑬	
				10,7 Mc/s → cTBS via 1 pF	S7, S ⑭	
	RP HF HF HF RF	FM-FM-FM-FM-FM	Max.	84,5 Mc/s → ⑮	S4, S5-S6	Max. output
				100 Mc/s → ⑯	C8, C9	
				Repeat - Herhalen - Répéter - Wiederholen - Repetirne		

- ① Damp S9 with a 10 kΩ resistor. S9 dampen mit einer Widerstand von 10 kΩ. Amortir S9 à l'aide d'une résistance de 10 kΩ. S9 mit einem Widerstand von 10 kΩ dämpfen. Amortiguar S9 con una resistencia de 10 kΩ.
- ② Damp S9 with a 10 kΩ-resistor and tune-in the apparatus. S9 dampen mit einem Widerstand von 10 kΩ und demnach das Gerät abstimmen. Amortir S9 à l'aide d'une résistance de 10 kΩ et ensuite régler l'appareil. S9 mit 10 kΩ dämpfen und danach das Gerät abstimmen. Amortiguar S9 con 10 kΩ y después sintonizar el aparato.
- ③ Remove the damping resistor. Dampfweiterstand entfernen. Enlever la résistance d'amortissement. Den Dämpfweiterstand entfernen. Retirar la resistencia de amortiguado.
- ④ Tune-in the apparatus. Apparatus abstimmen. Accorder l'appareil. Das Gerät Abstimmen. Sintonizar el aparato.
- ⑤ Re-adjust C12 after building in, as the metallized scale influences the tuning. Na bei Inkastr. C12 beiregeln. De metallisierte Skala beeinflusst die Abstimmung. Nach Einbau C12 nachregeln. Die metallisierte Skala beeinflusst ähnlich die Abstimmung. Reajustar C12 después de la incorporación en la caja. Es que la escala metálica influye en la sintonía.
- ⑥ See drawing on circuit diagram. Zie schaltzeichn. in principeschem. Voir la croquis de situation dans le schéma de principe. Siehe Situationszeichn. in Prinzipeschem. Ver el croquis de situación, en el esquema de principio.
- ⑦ Connect valve voltmeter (DV) across C53. Bausvoltmeter (DV) über C53 anschliessen. Brancher le voltmètre électronique (DV) sur C53. Das Bürkrenvoltmeter (DV) jetzt über C53 anschliessen. Conectar al voltmetro (DV) sobre C53.
- ⑧ Apply the signal to the ferroceptor via a coupler winding. Signaal via koppelwinding aan ferroceptor toevoeren. Appliquer le signal au ferroducteur via une spire d'accouplement. Signal über Koppelwinding dem Ferroceptor zuführen. Aplicarse la señal a través del enrollamiento de acoplamiento al ferroceptor.
- ⑨ Remove C24, if C18 does not trim. C24 verwijderen, als C18 niet te trimmen is. Retirar C24, s'il est impossible de régler C18. C24 entfernen, wenn C18 sich nicht abgleichen lässt. Quite C24, si es imposible ajustar C18.





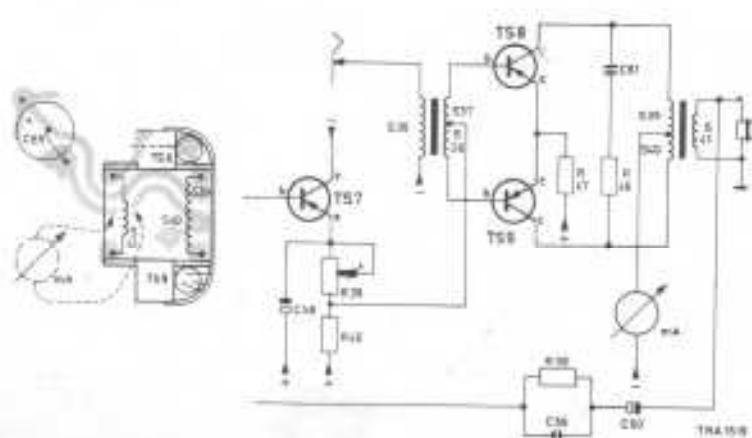
Adjustment of the output waveform affected as follows.  
Turn the switch SW-1 to position FWD. Connect 12VDC and the waveform as indicated in undermentioned figure and the resistance 100Ω. Adjust the pot so that the voltage across C10 is 1.1 V. After this adjust the output waveform according to the undermentioned table.

Wij waarderen uw opmerkingen en voorstellen als volgt:

l'ensemble des résultats de recherche et d'enseignement commun aux deux établissements. Cet état sera présenté à l'Assemblée de la recherche indiquée sur la figure ci-dessous.

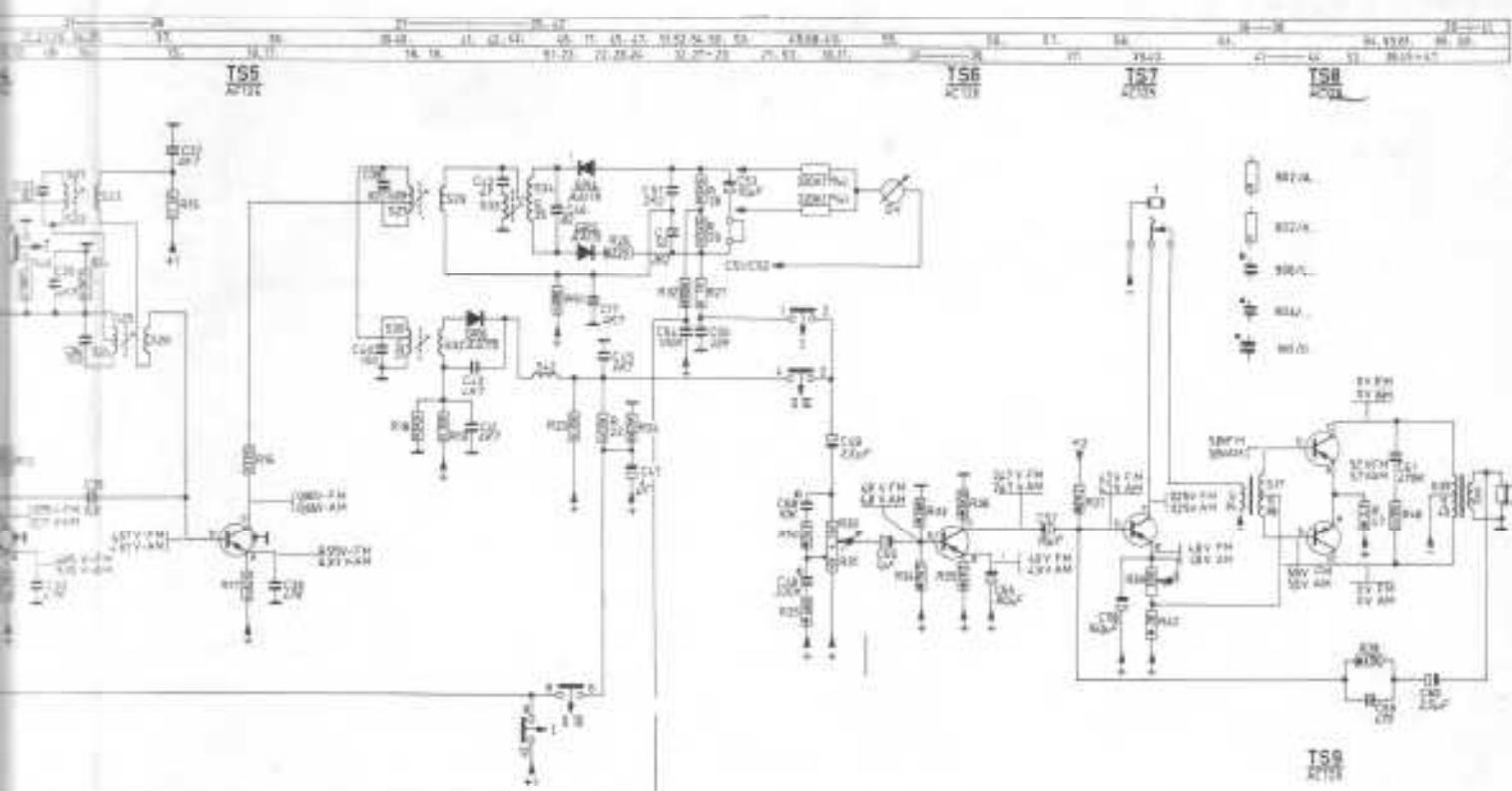
Die Statistik des Erkrankungsprävalenz war für GFR > 60 und MDRD > 60, d.h. in klinisch relevanter Abstufung dargestellt; und das Tageswasser-  
verbrauch (MDR) ermittelbar war, möglich, dass die Bezeichnung als GFR 1, 1 Würmer, Heranz. 1. Seg. Endziffern anzugeben.

$\frac{m}{n}$	0.0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
$\frac{m}{n} + \frac{1}{2}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{3}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{4}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{5}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{6}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{7}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{8}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{9}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{10}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{11}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{12}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{13}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{14}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{15}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{16}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{17}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{18}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{19}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18
$\frac{m}{n} + \frac{1}{20}$	0.8	4	8	8	7	4	9	13	18	18	14	18	16	16	17	17	18	18	18

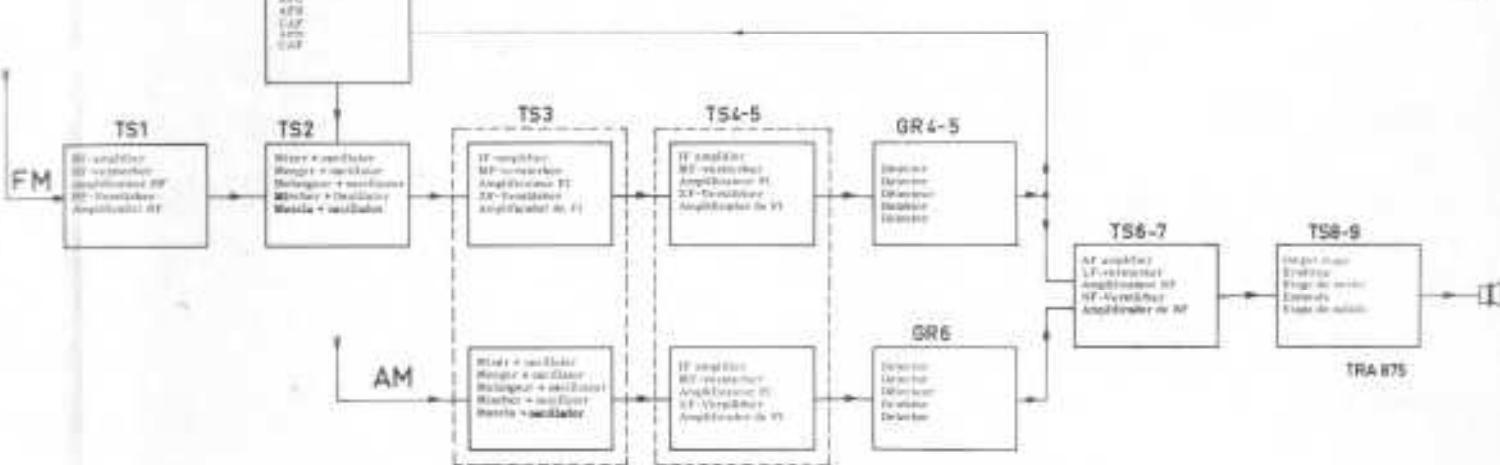
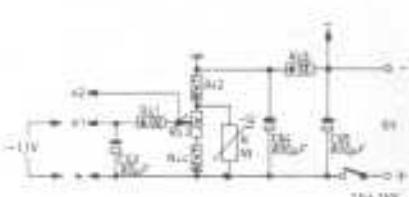


THE  
VAL-  
DE WAAD-  
LA VAL-  
DEUR WEI-  
KEL VAL-

WHITE  
WIT  
BLANC  
WEISS



THE POSTAGE AND FEES PAYABLE WITH RESPECT TO THE "A" OF THE LETTER  
WILL BE CHARGED ON THE AMOUNT PAID FOR THE AIR MAIL.  
BE CHARGED THE AMOUNT THE AIRMAIL RATE FOR THE AIR MAIL.  
NOT THE AIRMAIL RATE (1000 GRS.).  
THE FEE FOR THE AIR MAIL WILL BE CHARGED AS PER THE AIR MAIL  
TARIFF RATE FOR THE AIR MAIL RATE (1000 GRS.).  
THE AIR MAIL RATE IS 1000 GRS. THE AIR MAIL RATE IS 1000 GRS.  
THE AIR MAIL RATE IS 1000 GRS. THE AIR MAIL RATE IS 1000 GRS.



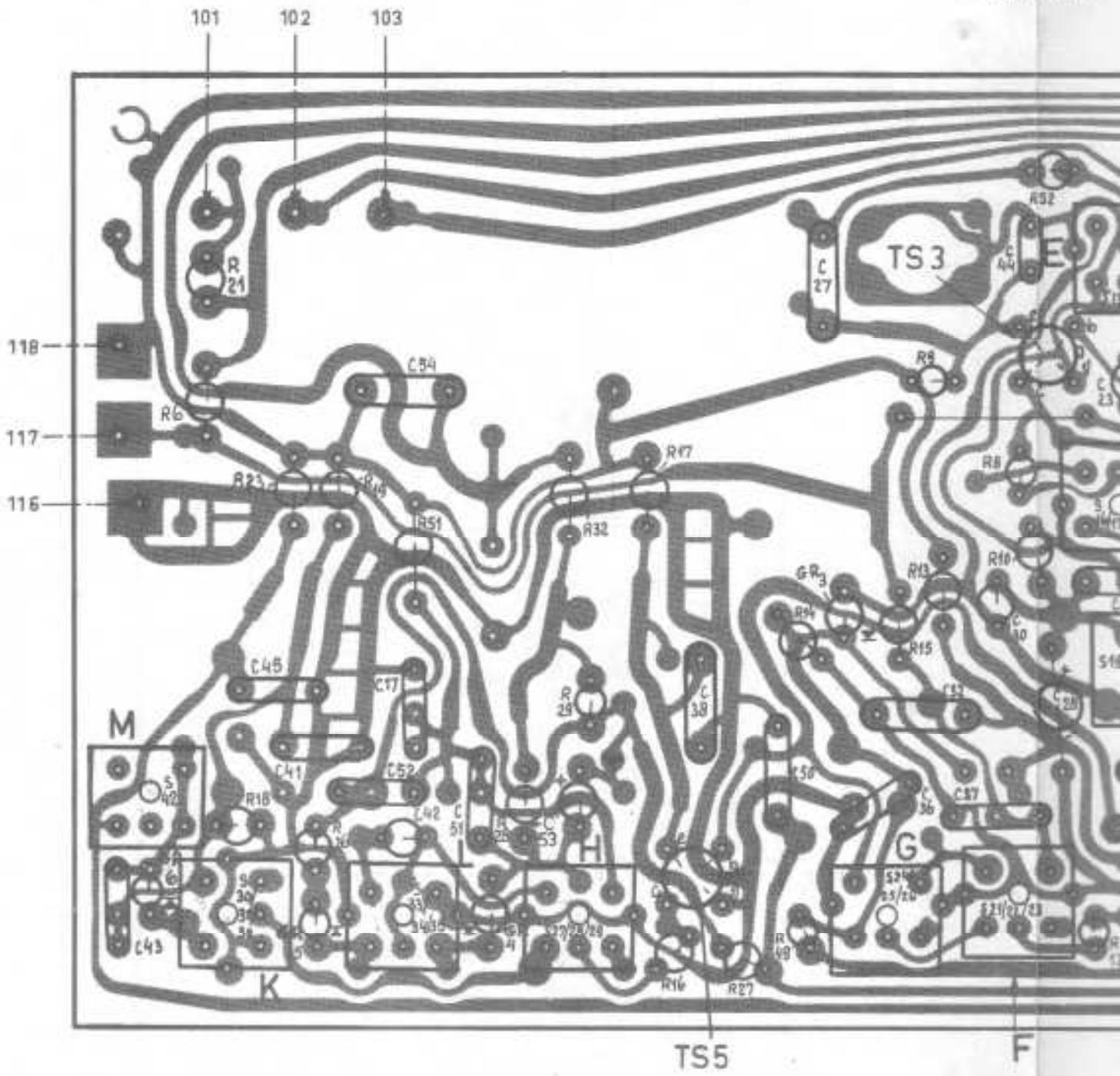
THE VALUE OF CTB DEPENDS ON THE COLOURED DOT ON GRS.  
DE WAARHEID VAN CTB HANGT AF VAN DE GEKLEURDE STIP VAN GRZ.  
LA VALEUR DU CTB DEPEND DU POINT COLORE DE GRZ.  
DER WERT VON CTB HÄNGT VOM FARBPUNKT VON GRZ AB.  
EL VALOR DE CTB DEPENDE DE LA MARCA COLORADA DE GRZ.

WHITE	YELLOW	BLUE	GREEN
WIT	GEEL	BLAUW	GROEN
BLANC	CT9=10 pF	JAUNE CT9=5,6 pF	BLEU CT9=1,8 pF
WEISS	GEIß	BLAU	GRÜN
BLANCO	AMARILLO	AZUL	VERDE



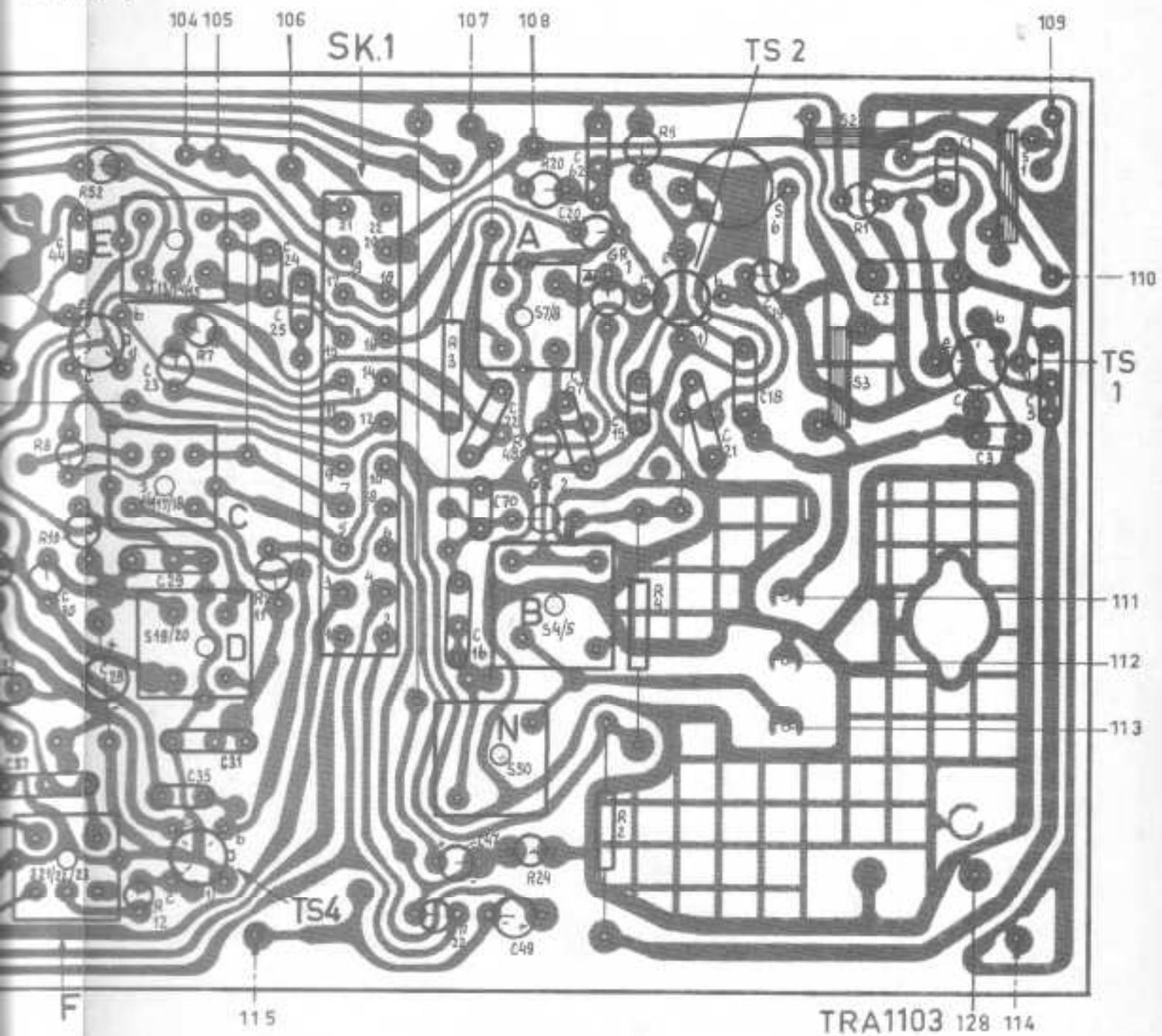
S	M.	K.	L.	H.	G.	F	E
C	43.	45. 41.	17.52.42.54.51.	53.	38.	50. 27.	36. 32.
R	21.6. 18.	23. 26.19.	51.	28. 32.29.	17. 16.	27. 14.49.	15.9.13.
GR	6.	5.	4.		3.		

## PRINT 1

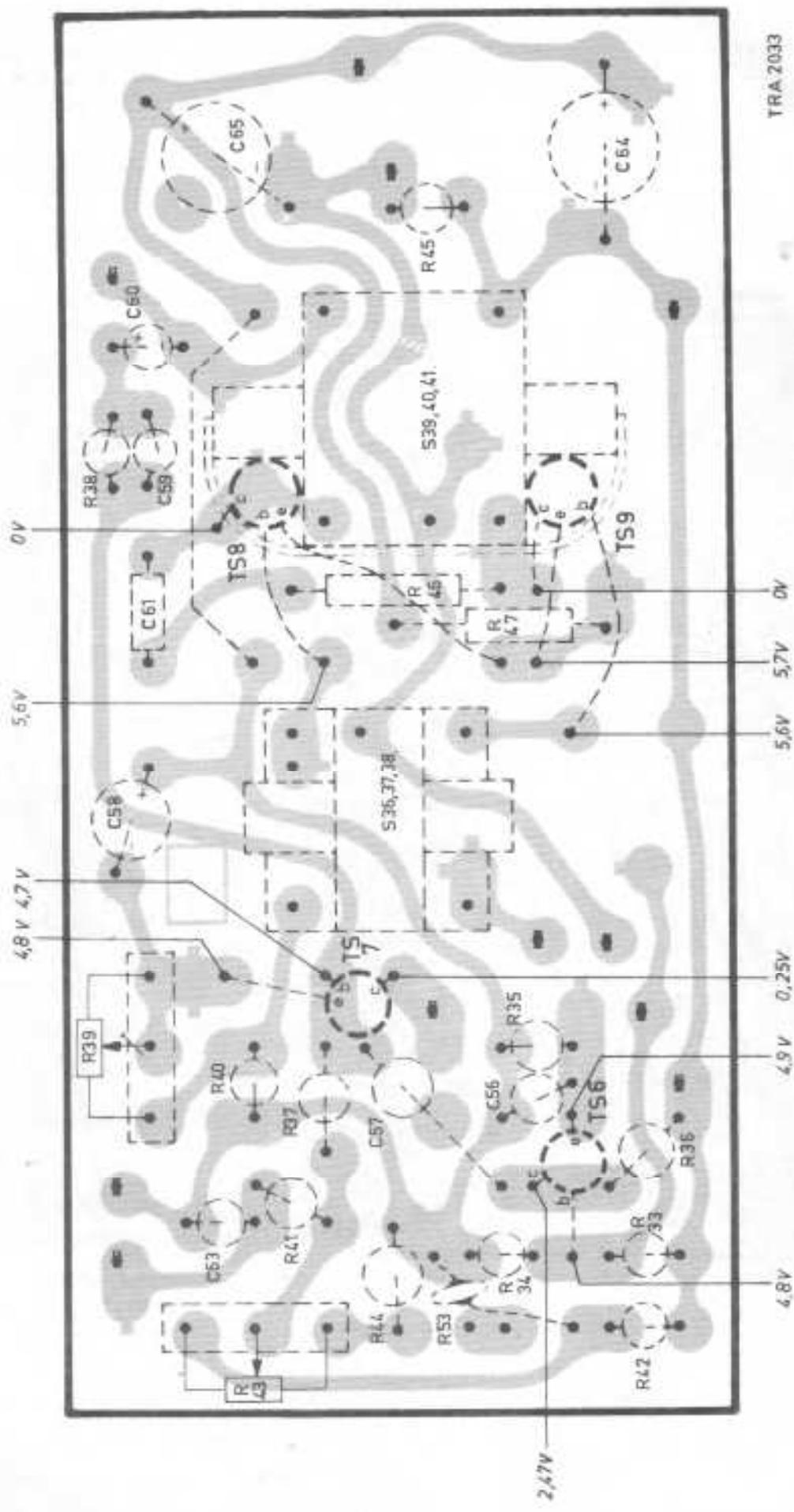


F	E.C.D.	N.A.B.	6.	3. 2.	1.
2. 30,37,44, 28, 29, 23, 35, 31, 24, 25,		47,16,70,22,49,67,62,20,15,	21.	18,19.	2. 1.
3. 8,10,52,12, 7. 11.	22,3.	20,24,48, 2,5,4		1.	3. 5.

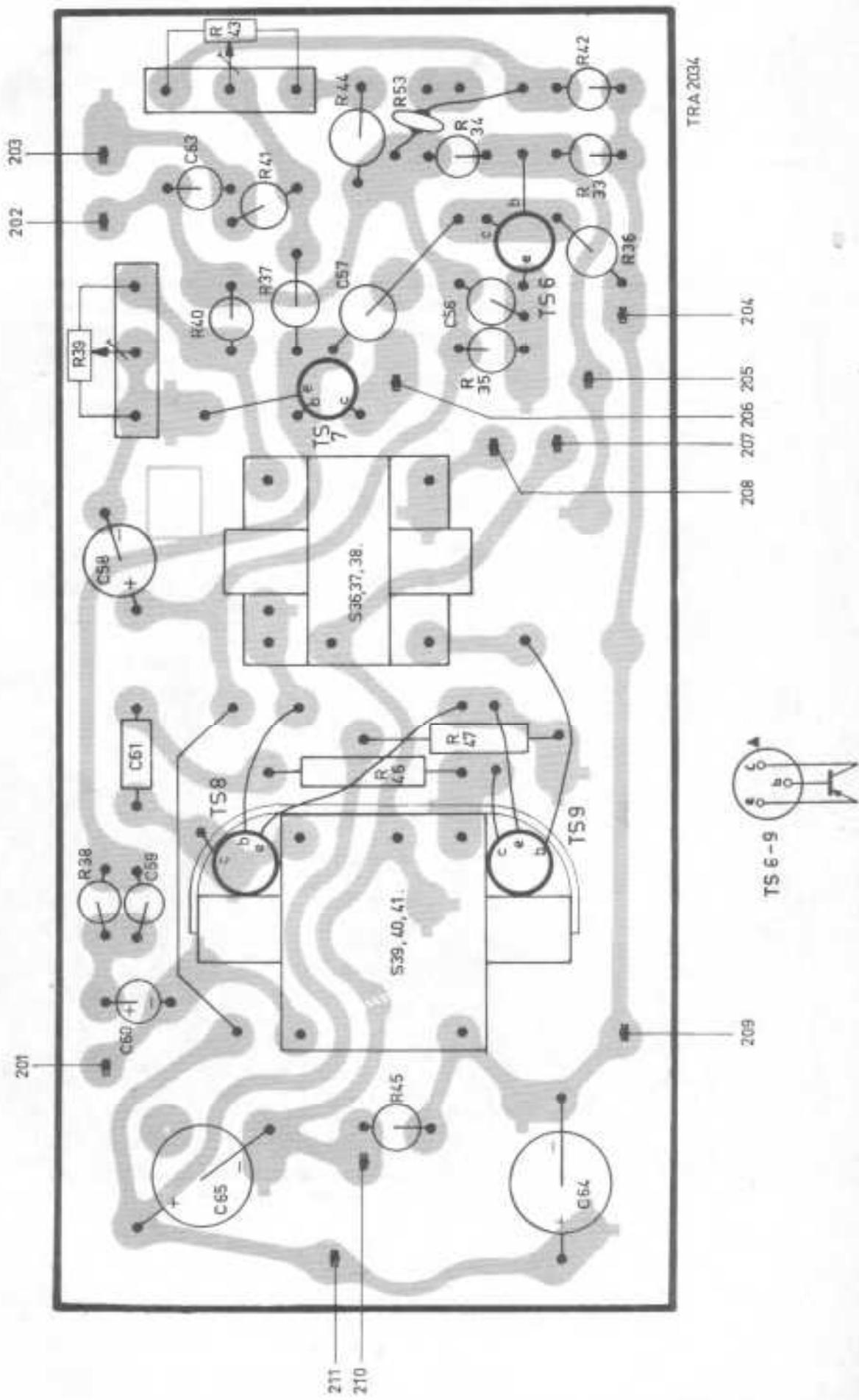
PRINT 1

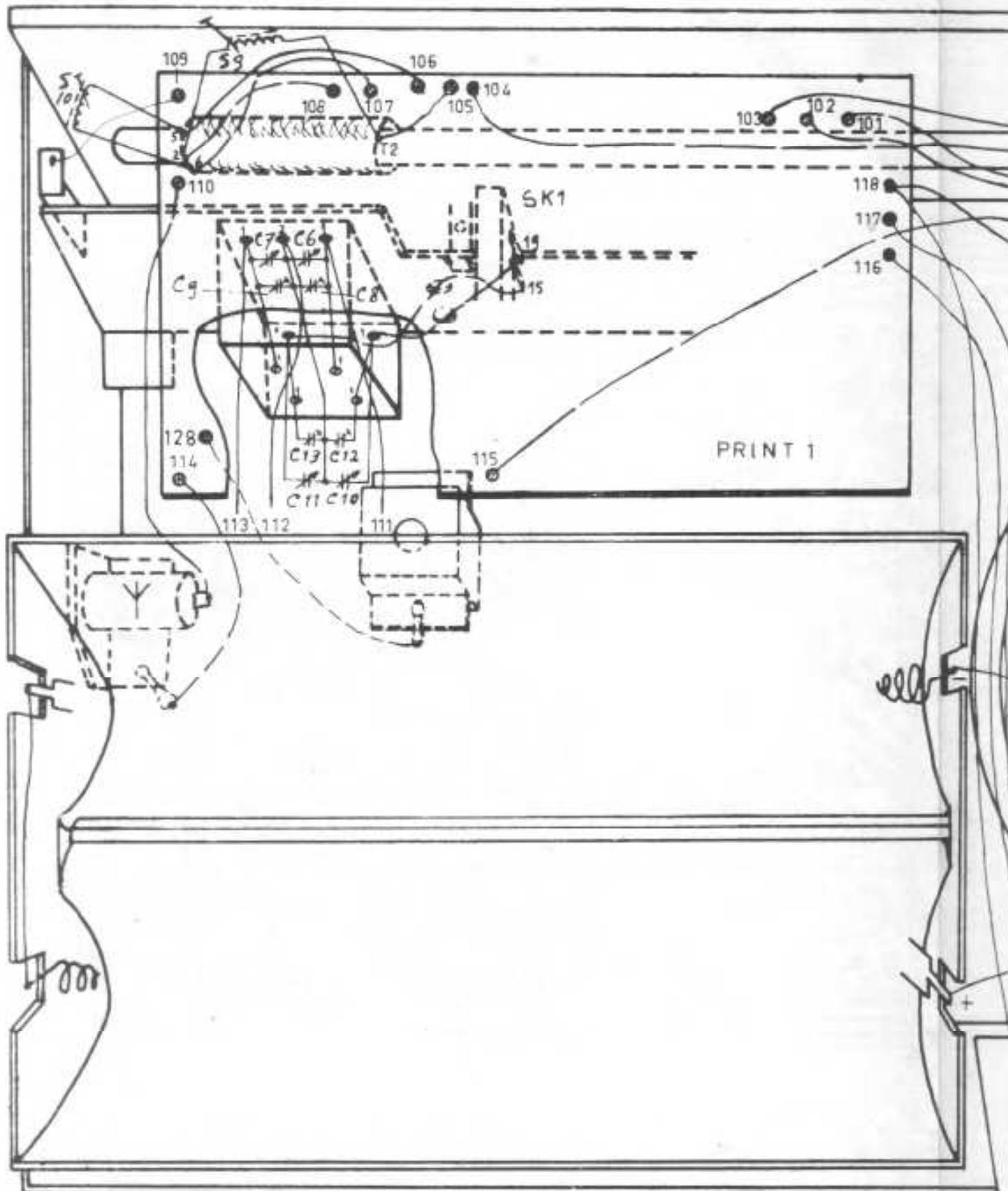


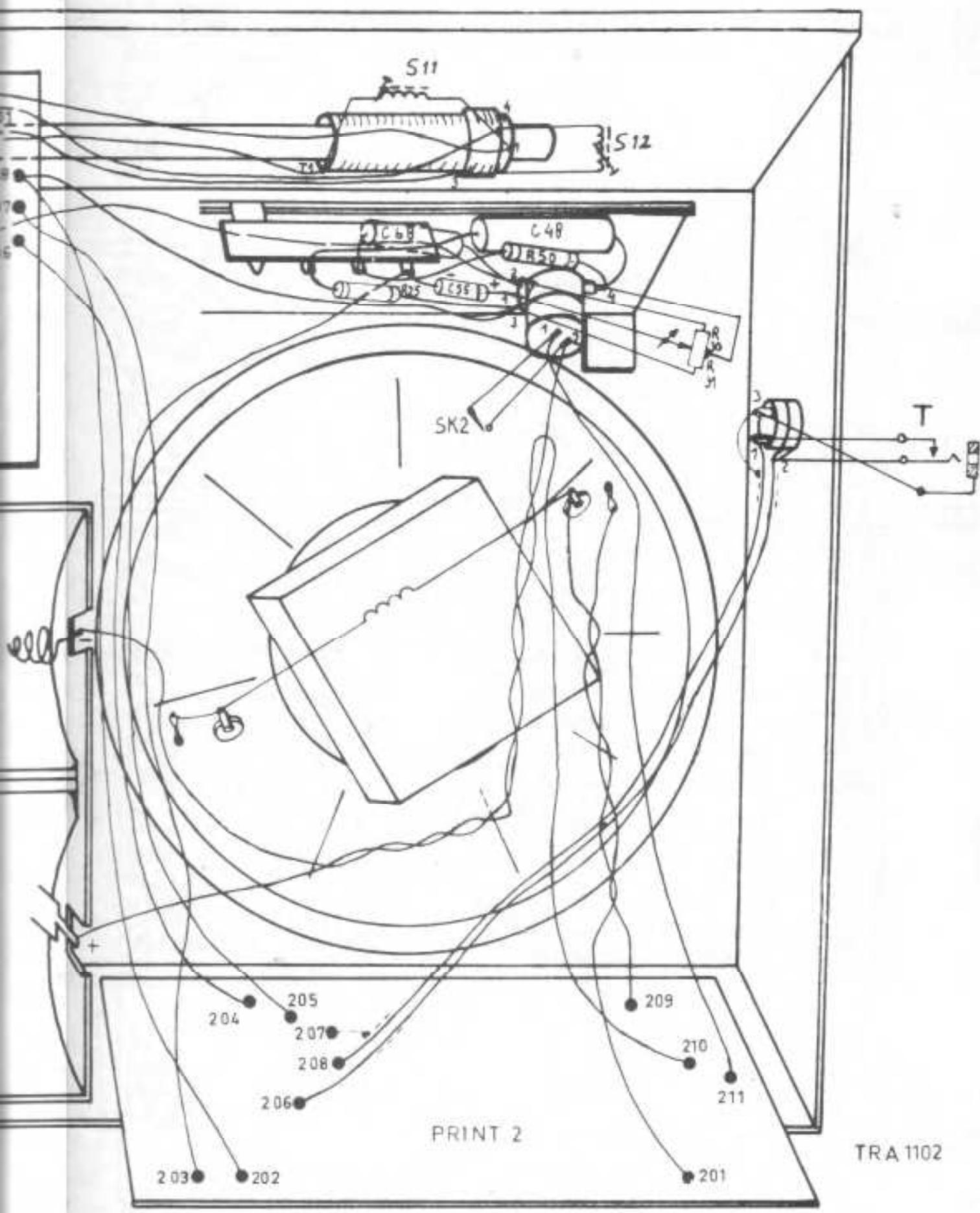
S		36.	37.	38.	39.	40.	41.
C	63	56.	57.	58.	61.	59.	60.
R	43.	42.	53.	44.	33.	34.	41.



S	39	40	41	36, 37, 38	55	57	63
C	55	54	50	51	58		
R	45		38	46, 47	39, 35, 40, 37, 36, 41, 34, 33, 44, 53, 52, 53		

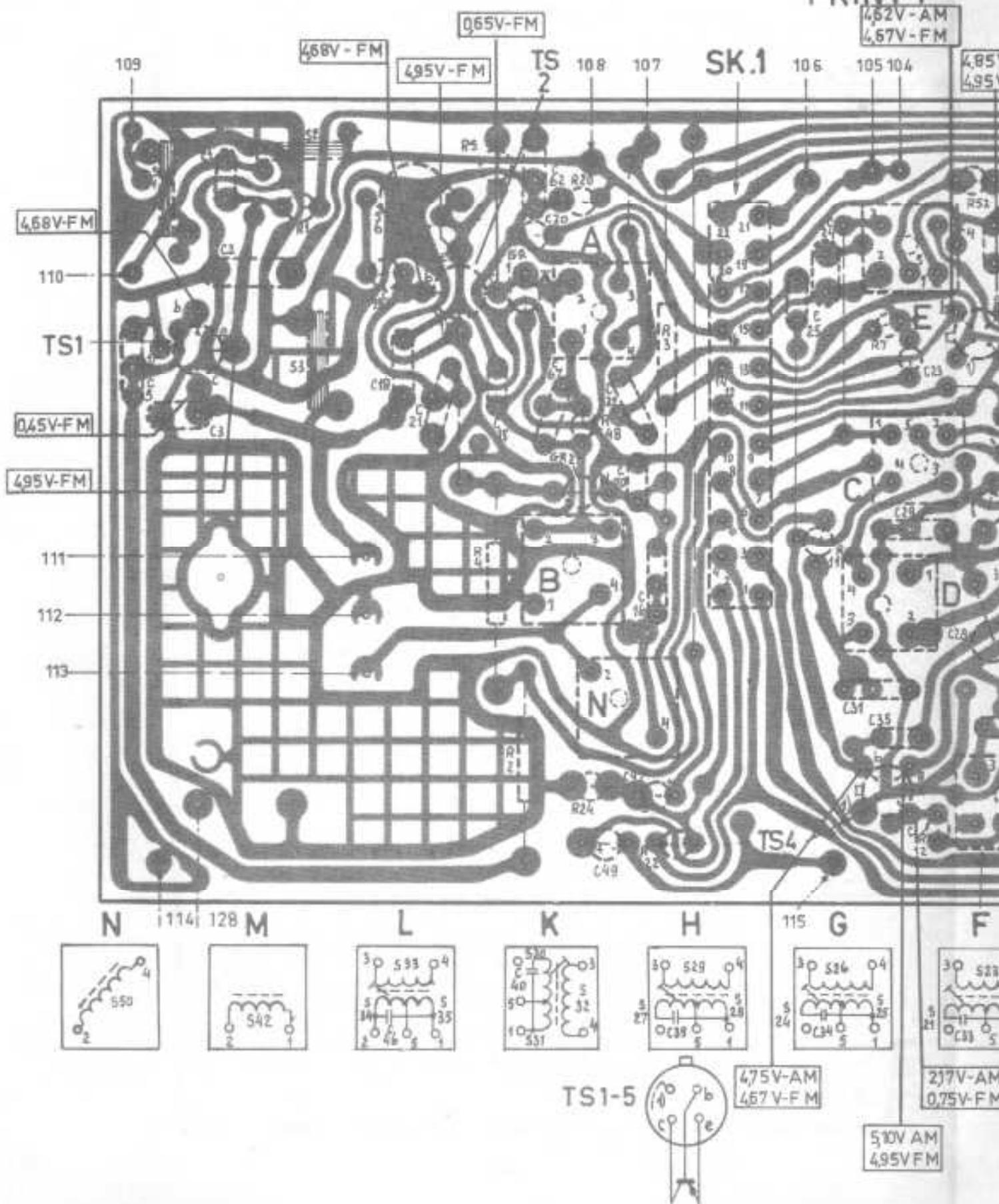






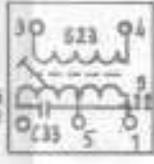
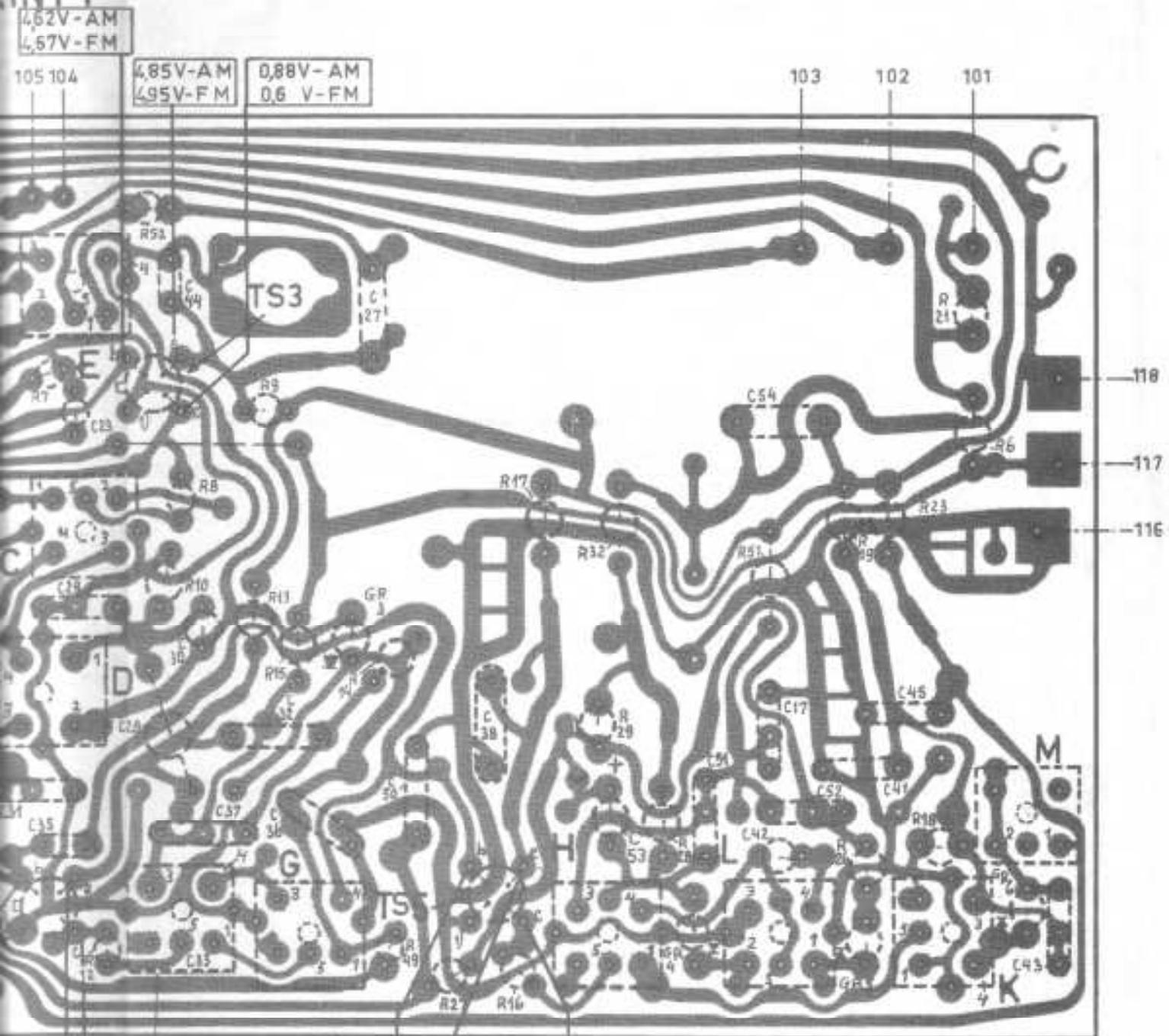
S	3-2	6	B.	A.	N.	D.E.C.
C	5, 3, 1, 2,	18,19, 21, 15,20,67,62,	49,22,70,16,47,	25, 24,	31,35,23,29, 28,	
R		4,5, 2,48,20,24,	3,22		11, 7,	12, 52
GR		1, 2,				

PRINT 1



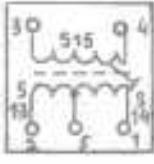
D.E.C.	F.	G.	H.	L.	K.	M.
31.35.23.29.	28.44.30.37.	32. 36. 27. 50.	38.	53.	51.	17.54.42.52. 41. 45.
7.	12. 52. 8.10.	13.9.15.	14.49. 27.	16.17. 29.32. 28.	51.	19.26.23. 18.21.6.
		3.		4.	5.	6.

PINT 1

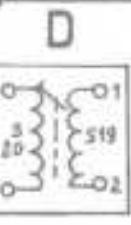


217V-AM  
0,75V-FM

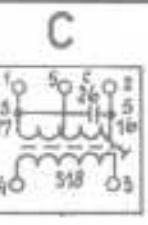
5.10V AM  
4.95V FM



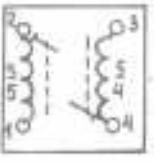
462 V-AM  
467 V-FM



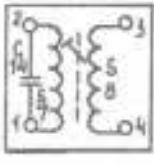
492V-AM  
495V-FM



0,65V-AM  
0,8 V-FM



B



TRA 1104

Cabinet		Kast	4822 420 00144	Coffret	4822 420 00144	Caja	4822 420 00144
Rear cover	black	Achterrund	4822 116 00794	Pannier arrrière	4822 116 00794	Panel posterior	4822 116 00794
Cover battery holder	(-/00R)	Deksel batterijhouder	4822 107 00642	Couverte de sup-	4822 107 00642	Tapa del deposito	(-/00R)
				port de pile		de batería	
Cabinet		Kast	4822 420 00145	Coffret	4822 420 00145	Caja	4822 420 00145
Rear cover	beige	Achterrund	4822 423 00025	Pannier arrrière	4822 421 30025	Panel posterior	4822 421 30025
Cover battery holder	(-/00B)	Deksel batterijhouder	4822 423 00158	Couverte de sig-	4622 423 40158	Tapa del deposito	(-/00B)
				port de pile		de batería	
Handle		Hanldgrasp	4822 422 40197	Handgriff	4822 420 40197	Ara	
Screw, fixing handle		Schroef, bev. hanldgreep	4822 111 00279	Schrankl., Bef. Handgriff	4822 111 00279	Tornillo, (U) las.	
Bush, fixing handle		Bus, bev. handgreep	4822 100 00219	Buchse, Bef. Handgriff	4822 100 00242	Manguito, (U), anax.	
Screw, fixing rear cover		Schroef, bev. achterwand	A3 714 46	Schraube, Bef. Rückwand	A3 714 46	Tornillo, (U), panel posterior	
Lock for cover battery holder		Schroef voor deksel batterijhouder	4822 107 00116	Verschluss für Deckel Batteriehalter	4822 107 00115	Pestillo para tapa del deposito de bateria	
Knob (volume)	1	Knop (volume)	1	Bouton (volume)	1	Boton (volumen)	1
Knob (tuning)	2	Knop (dämmung)	2	Bouton (ästhetisation)	2	Boton (sintonia)	2
Knob (wave range)	3	Knop (golfbereich)	3	Bouton (gruppe d'ondes)	3	Boton (margen de ondas)	3
Spring in knob	3	Vier in knop	3	Resort dans bouton	3	Resorte en botón	3
Lever of knob	3	Heftboom van knop	3	Lavet de bouton	3	Palanca de botón	3
Slide switch	3	Schakelschalter	3	Comm. gramma et omnes	3	Com. de emergen de ondas	3
Slider	3	Schuf	3	Tiroir	3	Placa deslizante	3
Driving mechanism for switch	3	Schaltvolumenmech/-mechanisme	3	Entnahmen de commu- tateur	3	Dispositivo de arrastre para comutador	3
Telescopique aerial							
Socket car-aerial							
Soclet earphone							
Nut fix. earphone-socket							
Hutter spring "u"							
Battery contact plate "u"							
Scale EUR	4822 334 00109						
Screw fixing dial	A3 136 92						
Ornamental plate on front	4822 460 00104						
Ornamental grid on front	4822 458 30095						

S1	A3 192 52	Aerial coil FM Antennaspole FM Bobine d'antenne FM Antennaspole UKW Bobina de antena FM	89 ) 810 ) 811 ) 812 )	Ferroceptor MW/LW Ferroceptor MG/LG Ferroceptor FO/GO Ferroceptor MW/LW Ferroceptor OM/OI	830 ) 831 ) 832 ) 840 )	Detection coil AM Detectorspool AM Bobine de detection AM Detektorspule AM Bobina de detección AM
S2	A3 192 54	Intermediate circuit coil FM Tosenderkretspole FM Bobine de circuit intermédiaire FM Zwischenkreispole UKW Bobina de circuito intermediano FM	813 ) 814 ) 815 )	Oscillator coil AM Oscillatorspule AM Bobina d'oscillateur AM Oscillatorkreis AM Bobina de oscilador AM	836 ) 837 ) 838 )	Driver transformer Baugangtransformator Transformateur déphaséur Treibertransformator Transformador de entradas
S3	A3 287 98	Oscillator coil FM Oscillatorspule FM Bobine d'oscillateur FM Oscillatorkreis AM Bobina de oscilador FM	819 ) 820 )	IF coil AM MF-spole AM Bobine de FI, AM ZF-Spule AM Bobina de FI, AM	839 ) 840 ) 841 )	Output transformer Utgangstransformator Transformateur de sortie Ausgangstransformator Transformador de salida
S4	4822 117 00328	Choke Smoorspole Self Drossel Choque	824 ) 825 ) 826 ) 827 )	IF circuit AM MF-Kreis AM Circuit de FI, AM ZP-Kreis AM Circuito de FI, AM	850 )	AFC series coil AFR-seriespole Bobine de série CAP AFR-Seriesanpule Bobina de serie CAP
S5	4822 108 00544		828 ) 829 ) 830 )	Ratio detector coil Heterodetectorspole Bobina de détecteur de rapport	4822 117 00328	Variabile capacitor Variabiler Kondensator Condensateur variable Drehkondensator Condensador variable
S6	4822 108 00544		831 ) 832 ) 833 )	Ratio detector spule Bobina de détecteur de rapport	4822 117 00342	
S42	4822 108 00544		834 ) 835 ) 836 )	Ratio detector spule Bobina de détecteur de relación	4822 117 00342	Loudspeaker Lautsprecher Haut-parleur Lautsprecher
S7,S8	4822 107 00162		837 )	C6, C10 ) C7, C11 ) C8, C12 ) C9, C13 )	4822 117 00342	Altavoz
C14		IF circuit FM MF-Kreis FM Circuit de FI, FM	838 )			
S16,S17	4822 107 00162		839 )			
S18,C26	4822 107 00162	ZIF-Kreis UKW Circuito de FI, FM	840 )			
S21,S22	4822 107 00162		841 )			
S23,C21	4822 107 00162		842 )			
C1	150 pF	4822 069 00553	C19	4822 069 00439	C44	1 pF
C2	10 $\mu$ pF	4822 069 01093	C20	905/D43E	C47	4 $\mu$ F-10 V
C3	3,3 pF	4822 069 00901	C22	4822 069 01093	C49	2,5 $\mu$ F-64 V
C5,C16			C23	905/D160E	C51,C52	2200 pF
C17,C31			C24	4822 069 00629	C53	10 pF-10 V
C29,C31			C25	4822 069 00629	C54	0,1 pF
C36,C37	4700 pF	4822 069 00627	C26	4822 069 01087	C55	1 pF-40 V
C41,C43			C28	906/C25	C56,C63	80 pF-2,5 V
C45,C62			C30	4822 069 00569	C57	16 pF-10 V
C67			C32,C38	4822 069 01101	C58	300 pF-2,5 V
C15	10 pF	4822 069 00677	C35	4822 069 00878	C60	2,5 pF-16 V
C18	2,7 pF	4822 069 00669	C42	C 285 AA/547E	C61	0,47 pF