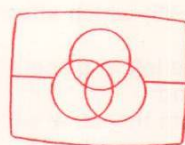


Stereo radio recorder D8718/00/02/05

Service
Service
Service

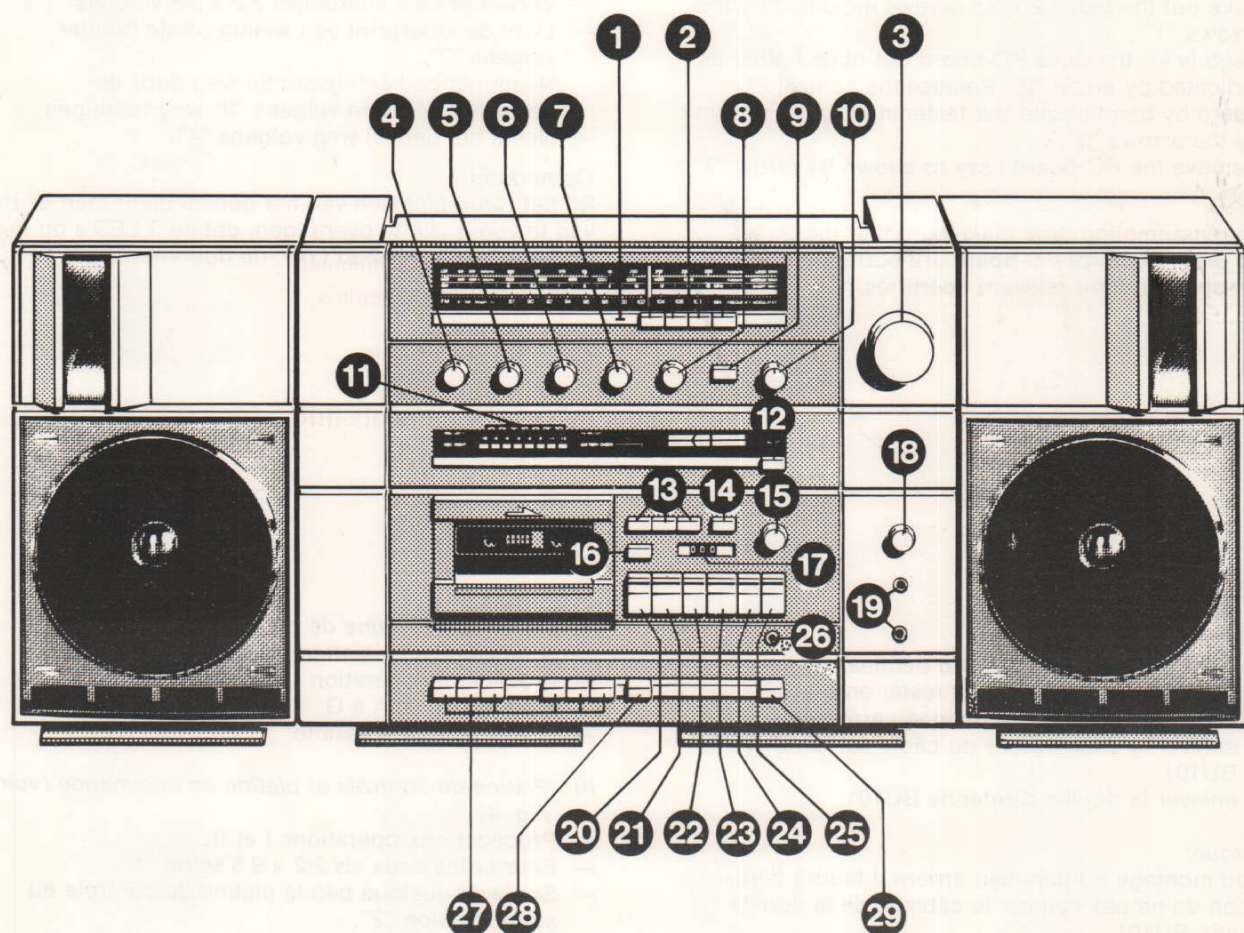


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For repair information of the cassette mechanism see Service Manual of "Recorders tape deck RS-14" and "Recorders tape deck RS-Universal".

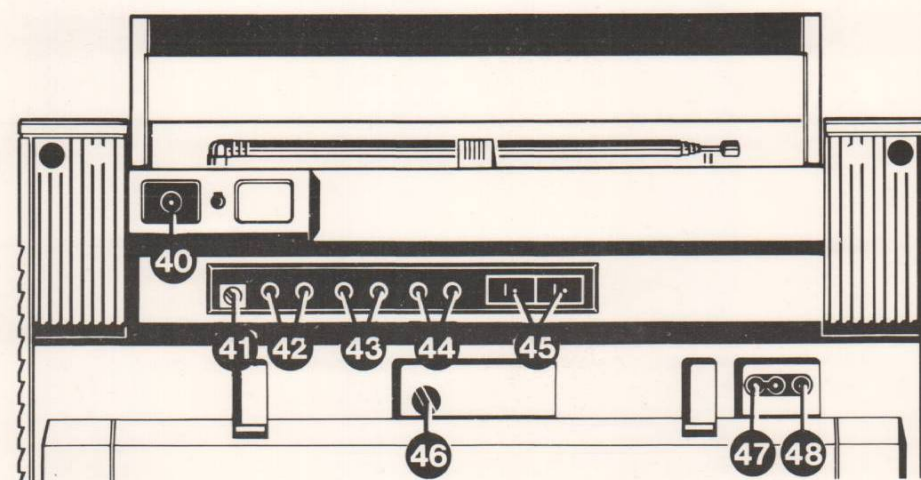
Service Manual



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CONNECTIONS AND CONTROLS

1		„stereo indicator”	D180	20		„pause”	SK22/D709
2	FM-SW- MW-LW		SK101÷104	21		„stop”	SK23
3		„tuning”	C100	22		„rewind”	SK24
4		„balance”	R237	23		„play”	SK25/D708
5		„bass”	R225/275	24		„fast forward”	SK26
6		„treble”	R228/278	25		„recording”	SK27/D710 SK15
7		„mono-stereo-spatial”	R236	26		„headphone”	BU13/SK13
8	source	„phono-aux-radio-tape”	SK-9	27		„tape program search system”	SK28÷33
9	Loudness ON/OFF		SK-8	28		„automatic repeat”	SK34
10		„volume”	R230/280	29		„dynamic noise reduction”	SK920
11		„VU-indic. L-R tuning/rec, power on/off	D503,504 D553,554	40		„external antenne”	BU101 (only for /00/05)
12		„power ON/OFF”	SK280	41		„ground connection”	
13	Tape select	„normal-Cr02-metal”	SK17÷19	42		„Md phono line in”	BU4-BU5
14	Mode	„A.L.C./manual”	SK20	43		„Aux line in”	BU6-BU7
15		„rec-manual”	R403/453	44		„line out”	BU8-BU9
16		„eject”		45		„external loudsp”	BU10-LS1/LS2 BU11-LS101/LS102
17	„tape counter”			46		„Rif”	SK16
18		„micro-mixing”	R901/951	47		„mains inlet”	BU601/SK601
19		„external mic”	BU901-BU951	48		„external supply”	BU602/SK602



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"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

Subject to modification





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Printed in The Netherlands

PHILIPS

SPECIFICATIONS

Minimum values

	: 10-16 V	ext. speakers L-R; 4 Ω
	: 15 V (10xR20)	5 W sin-10 W peak
	220 V, 50/60 Hz	200 Hz-12 kHz within 10 dB
	240 V, 50/60 Hz/05	two speakers:
		LS1/LS101 7" woofer
		LS2/LS102 piezo tweeter
	2x5 W - 1 dB d ≤ 10%	(Sine wave)

Headphone Amplifier 30 Hz - 15 kHz; within 6 dB
1 mW (8 Ω) ÷ 10 mW (600 Ω) d ≤ 10 dB

IF-FM : 10,7 MHz
IF-AM : 468 kHz ± 2 kHz
FM : 87,5 - 108 MHz +0,5
-0,3 MHz

SW : 2,3 - 7,3 MHz
LW : 150 - 255 kHz
MW : 520 - 1605 kHz

Tape speed: 4,76 cm/s ± 2% (15-35°C)

Wow and flutter ≤ 0,3% (4,76 cm/s)

Bias freq. (SK-16 „0") 73 kHz

Frequency response

(within 8 dB) 60 Hz - 10 kHz ; normal
60 Hz - 12 kHz ; Cr02
60 Hz - 14 kHz ; metal

Input sensitivity Exet. microphone 0,3 mV/4k7 Ω BU901/951
(acc. UAN-0170) Phono-MD 3,5 mV/47 kΩ BU4/BU5
Aux/line in 150 mV/470 kΩ BU6/BU7

Output line out BU8/BU9 ≥ 500 mV/10 kΩ
loudspeakers 4-8 Ω BU10/BU11
headphone 8 Ω ÷ 600 Ω BU13

Typical values

2x 10 W max. output power

Wow and flutter ≤ 0,09% WRMS
(at 4,76 cm/s)

Frequency response

50 Hz - 12 kHz; normal within
50 Hz - 14 kHz; Cr02 8 dB
50 Hz - 15 kHz; metal at 4,76 cm/s

GB DISMANTLING

Backcover

- Remove the 4 screws (2.9 x 25) which attach the backcover to the case.
- The telescopic aerial may be left in place.
- Slightly lift the backcover and:
 - a. Remove the cable tag from the aerial socket BU101.
 - b. Remove aerial socket BU101.

Note:

When reuniting the backcover to the case, take care that the leads to aerial socket BU101 do not get stuck.

I. Recorder PC-board (Figs. 1, 2)

- Take out the 2.9 x 13 screw indicated by arrow "1".
- Release recorder bracket from recorder switch as shown by arrow "2".
- Slightly lift PC-board as shown by arrows "3" and take it out of amplifier PC-board (arrow "4").

II. Tape transport (comprising drive, control and tape select PC-boards) (Refer to Fig. 3)

- Perform operation I.
- Take out the screws A through G.
- Open the cassette lid.

III. Drive PC-board + control PC-board (refer to Fig. 4)

- Perform the operations I and II.
- Take out the two 2.2 x 9.5 screws indicated by the arrows "1".
- Slightly lift the drive PC-board out of its holder as indicated by arrow "2". Release the control PC-board by bending out the fastening lugs as shown by the arrows "3".
- Remove the PC-board assy as shown by arrow "4".

Note:

When reassembling, first make sure that the three LED's on the control PC-board are correctly oriented with respect to their relevant apertures.

NL UITKASTEN

Achterwand

- Verwijder de 4 schroeven (2.9 x 25) uit de achterwand.
- De telescoopantenne kan blijven zitten.
- Licht de achterwand een weinig op en:
 - a. Verwijder het kabelschoentje van de antennebus BU101.
 - b. Verwijder de antennebus BU101.

Opmerking:

Bij het terug plaatsen van de achterwand dient men erop te letten dat de bedrading van antennebus BU101 niet beklemd geraakt.

I. Recorderprint (Fig. 1, 2)

- Verwijder schroef 2.9 x 13 aangegeven met "1".
- Maak recorderbeugel vrij van recorder-schakelaar volgens "2".
- Licht de print een weinig op volgens "3" en neem hem uit de versterkerprint volgens "4".

II. Loopwerk inclusief sturing, bediening en tape-select (zie Fig. 3)

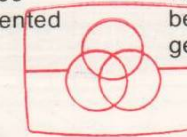
- Verricht handeling I.
- Verwijder de schroeven A t/m G.
- Open de cassetteklep.

III. Sturingsprint met bedieningsprint (zie Fig. 4)

- Verricht handeling I en II.
- Verwijder de 2 schroefjes 2.2 x 9.5 volgens "1".
- Licht de stuurprint een weinig uit de houder volgens "2".
- Neem het bedieningsprintje weg door de bevestigingslippen volgens "3" weg te buigen.
- Neem het geheel weg volgens "4".

Opmerking:

Bij het terug plaatsen van het geheel dient men er zich van te voren van te overtuigen, dat de 3 LED's op het bedieningsprintje goed t.o.v. de doorvoeringen geïoriënteerd zijn.



Gratis schema's

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F DEMONTAGE

Panneau arrière

- Enlever les 4 vis (2.9 x 25) du panneau arrière.
- L'antenne télescopique peut rester en place.
- Soulever quelque peu le panneau arrière et,
 - a. enlever le patin autour du câble sur la douille BU101.
 - b. enlever la douille d'antenne BU101.

Remarque:

Lors du montage du panneau arrière il faudra faire attention de ne pas coincer le câblage de la douille d'antenne BU101.

I. Platine magnétophone (Fig. 1, 2)

- Enlever la vis 2.9 x 13 marquée "2".
- Dégager l'étrier du magnétophone selon l'indication "2".
- Soulever quelque peu la platine selon "3" et l'extraire de la platine de l'ampli selon "4".

II. Mécanique (platine de contrôle, platine de commande et sélection de bande) (voir Fig. 3)

- Procéder à l'opération I.
- Enlever les vis A à G.
- Ouvrir le porte-cassette.

III. Platine de contrôle et platine de commande (voir Fig. 4)

- Procéder aux opérations I et II.
- Enlever les deux vis 2.2 x 9.5 selon "1".
- Soulever quelque peu la platine de contrôle du support selon "2".
- Extraire la platine de commande enpliant les languettes de fixation selon "3".
- Enlever l'ensemble selon "4".

Remarque:

Avant de remonter l'ensemble, il faut s'assurer de ce que les 3 LED sur la platine de commande soient bien en regard des ouvertures de traversée.

D AUSBAU**Rückwand**

- Die 4 Schrauben (2.9 x 25) aus der Rückwand herausdrehen.
- Die Teleskopantenne muss nicht abgenommen werden.
- Die Rückwand ein wenig heben und
 - a. den Kabelschuh von der Antennenbuchse BU101 abziehen;
 - b. Antennenbuchse BU101 ausbauen.

Bemerkung:

Wenn die Rückwand zurückgestellt wird, ist zu beachten, dass sich die Verdrahtung der Antennenbuchse BU101 nicht verklemt.

I. Recorder-Printplatte (Bild 1 und 2)

- Mit "1" gekennzeichnete Schraube 2.9 x 13 lösen.
- Recorderbügel von Recorderschalter entsprechend "2" lösen.
- Printplatte entsprechend "3" ein wenig heben und entsprechend "4" aus der Verstärkerprintplatte herausnehmen.

II. Laufwerk einschliesslich Steuerung, Bedienung und "tape-select" (siehe Bild 3)

- Vorgang I durchführen.
- Schrauben A bis G lösen.
- Öffnen Sie das Kassettenfach.

III. Steuerprint mit Bedienungsprint (siehe Bild 4)

- Vorgänge I und II durchführen.
- Die beiden Schrauben entsprechend 2.2 x 9.5 entsprechend "1" lösen.
- Den Steuerprint entsprechend "2" ein wenig aus der Fassung heben.
- Bedienungsprint ausbauen indem die Befestigungslappen entsprechend "3" auswärts gebogen werden.
- Die Gesamtheit entsprechend "4" beseitigen.

Bemerkung:

Wenn die Gesamtheit eingebaut wird, soll man sich vorher davon überzeugen, dass die 3 Leuchtdioden auf dem Bedienungsprint richtig zu den Durchführungen orientiert sind.

I SMONTAGGIO**Coperchio posteriore**

- Togliere le 4 viti (2.9 x 25) che fissano il posteriore al mobile.
- L'antenna telescopica può rimanere montata.
- Sollevare leggermente il posteriore e:
 - a. Togliere il capocorda dalla presa d'antenna BU101.
 - b. Togliere la presa d'antenna BU101.

Nota:

Quando si rimonta il posteriore al mobile, fare attenzione che il cablaggio non tocchi la presa d'antenna BU101.

I. Circuito stampato del registratore (Fig. 1, 2)

- Togliere la vite 2.9 x 13 contrassegnata dalla freccia "1".
- Liberare la staffa dal commutatore del registratore come indicato dalla freccia "2".
- Sollevare leggermente il circuito stampato come riportato dalla freccia "3" e togliere la parte del registratore dal circuito stampato dell'amplificatore (freccia "4").

II. Parte del registratore (compreso i circuiti di trascinamento, controllo e selezione nastri), vedere Fig. 3

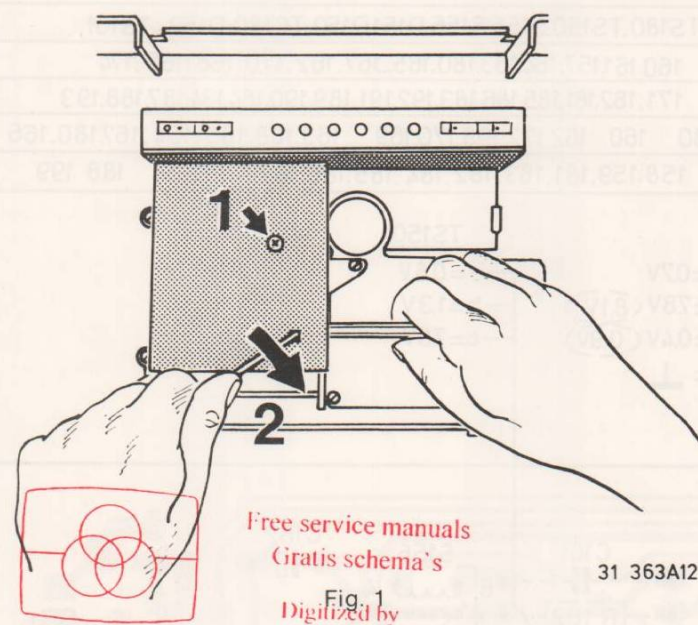
- Procedere all'operazione I.
- Togliere le viti A attraverso G.
- Aprire il porta cassetta.

III. Circuito stampato di trascinamento + circuito stampato di controllo (vedere Fig. 4)

- Procedere alle operazioni I e II.
- Togliere le due viti 2.2 x 9.5 indicate dalle frecce "1".
- Sollevare leggermente il circuito stampato relativo al trascinamento dal suo supporto come indicato dalla freccia "2". Liberare il circuito stampato di controllo piegando verso l'esterno le lamelle di fissaggio come indicato dalle frecce "3".

Nota:

Quando si rimonta, prima fare attenzione che i tre LED sul circuito di controllo siano correttamente posizionati rispetto alla loro finestra.



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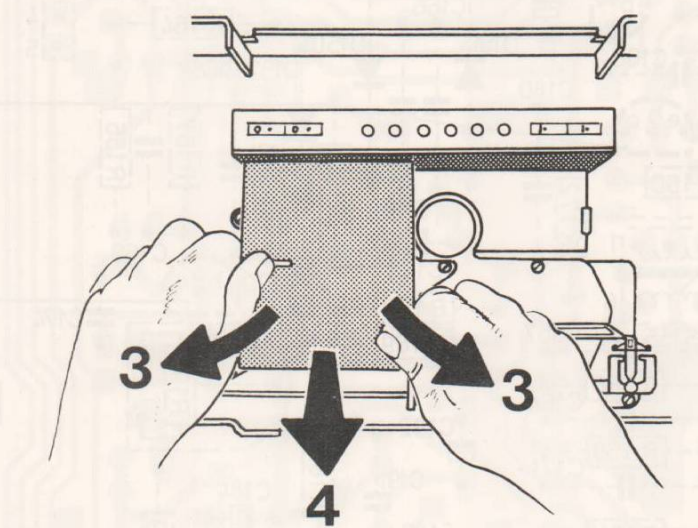


Fig. 2

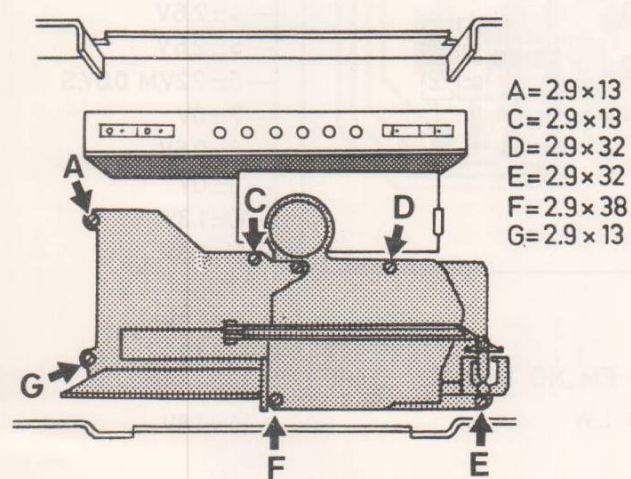


Fig. 3

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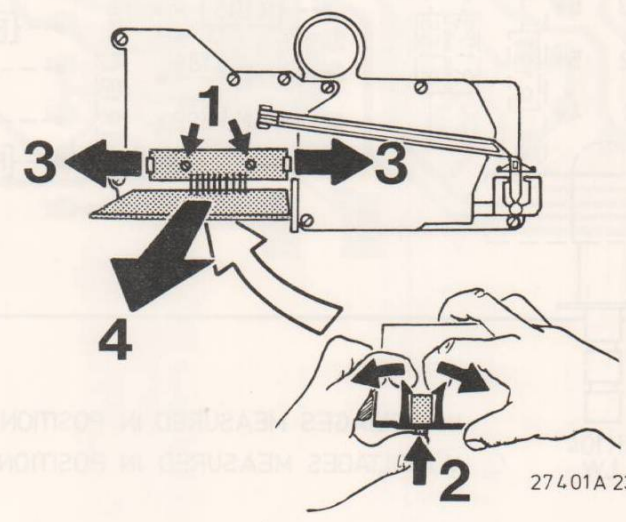
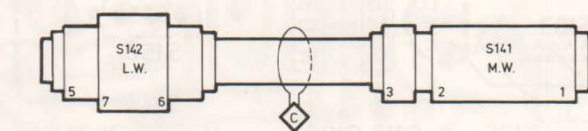
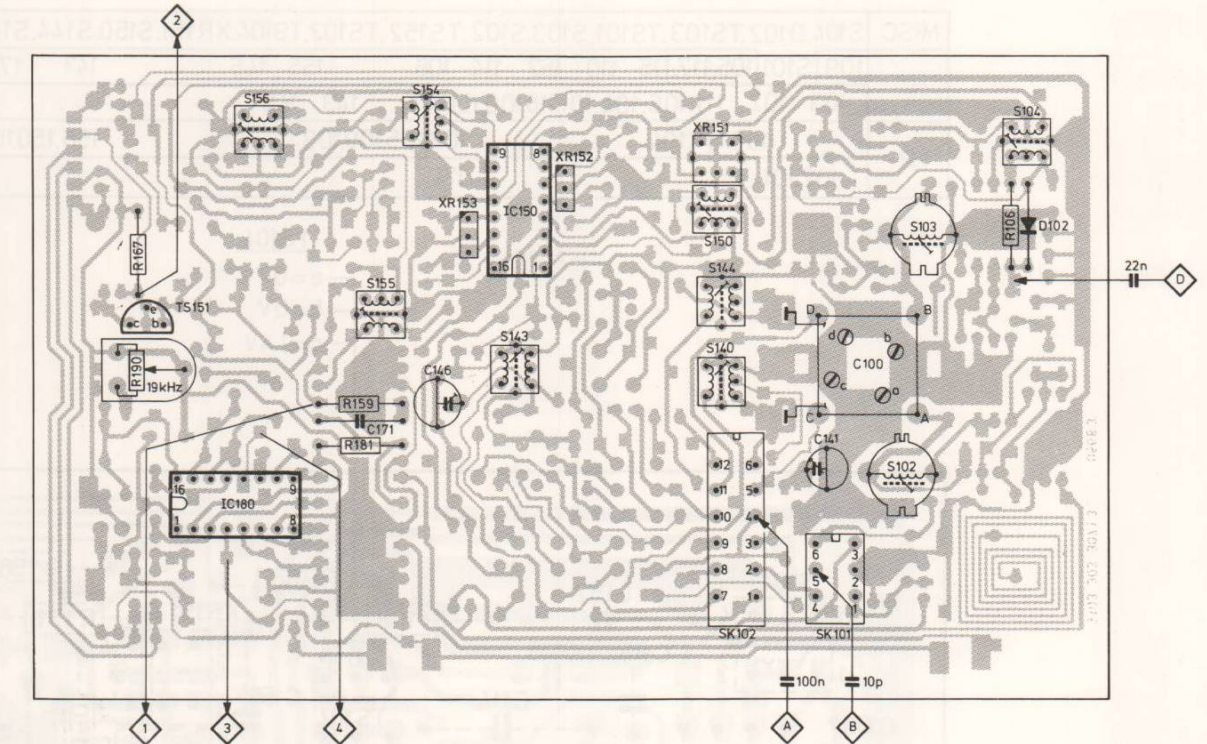


Fig. 4

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GB

- 1 Place the peak of the band-pass curve in the middle of the picture by shifting the sweep frequency.
- 2 Adjust for maximum height and symmetry.
- 3 Adjust for linearity and symmetry of the S-curve.

F

- 1 Le top de la courbe de réponse doit être amené au centre de l'écran par glissement de la fréquence de modulation.
- 2 Ajuster sur hauteur et symétrie maximum.
- 3 Ajuster pour la linéarité et la symétrie de la courbe en S.

NL

- 1 De top van de doorlaatkromme in het midden van het scherm plaatsen door verschuiven van de wobbelfrequentie.
- 2 Afregelen op maximum hoogte en symmetrie.
- 3 Afregelen op lineariteit en symmetrie van de S-kromme.

D

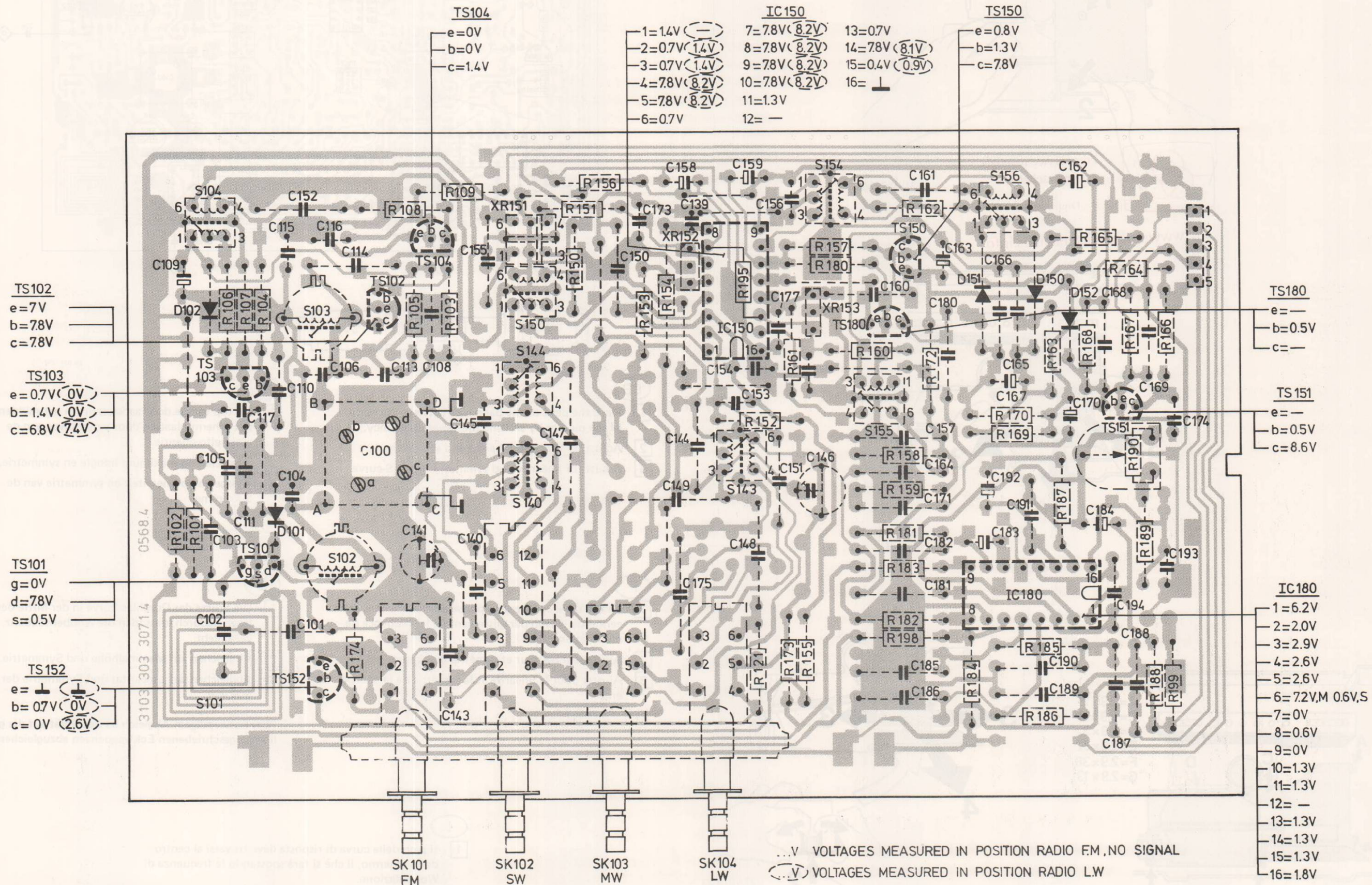
- 1 Die Spitze der Durchlasskurve in der Mitte des Bildes legen dadurch, dass man die Wobblfrequenz verschiebt.
- 2 Abgleichen auf Maximalhöhe und Symmetrie.
- 3 Abgleichen auf Linearität und Symmetrie der S-Kurve.

"Bei notwendigem Abgleich ist das Gerät auf die gesetzlich vorgeschriebenen Eckfrequenzen abzugleichen."

I

- 1 Il pico della curva di risposta deve trovarsi al centro dello schermo, il ché si farà spostando la frequenza di Wobbulazione.
- 2 Regolare per un massimo di altezza e di simmetria.
- 3 Regolare per linearità e simetria della curva ad S.

MISC	S104.D102.TS103.TS101.S103.S102.TS152.TS102.TS104.XR151.S150.S144.S140	XR152.IC150.S143.XR153.S154	TS180.TS150.S155.S156.D151.D150.IC180.D152.TS151
C	109 S101 105.117.115 110 152 114 108 155 145 147 173 139 158 .144 . 159 .154 . 156 .176 160.161.157.164.163.180.165.167.162 .170.168 .169 .174		
R	103 102 111.106.104.101.116.100.113.141 143 140 177 149 175 153 148 151 146 171.182.181.185.186.183.192.191.189.190.184.194.187.188.193		
	106.107.104 108.105.109.103 156.150.151 153.154 195.152 161 157.180 160 162.172.198.170.169 163.168.165 .164 .167.180.166		
	102.101 174 121 173 155 158.159.181.183.182.184 .185.186.187 189 188 199		



SK			C100			
MW-SK103	468 kHz *		Min. cap.	S150 S155		
SW-SK102	5.8 MHz *		Max. cap.	S144		
	18.2 MHz *		Min. cap.	C100d		
	17.0 MHz *			C100c		
	6.2 MHz *			S140		
MW-SK103	1635 kHz *		Min. cap.	C146		
	512 kHz *		Max. cap.	S143		
	560 kHz *			S141		
	1500 kHz *			C141		
LW-SK104	148 kHz *		Max. cap.	S143		
	200 kHz *			S142		

FM-IF						
FM-SK101	10.7 MHz Δf (sweep range) 10-11 MHz				 	
				S154 S104		
				S156		

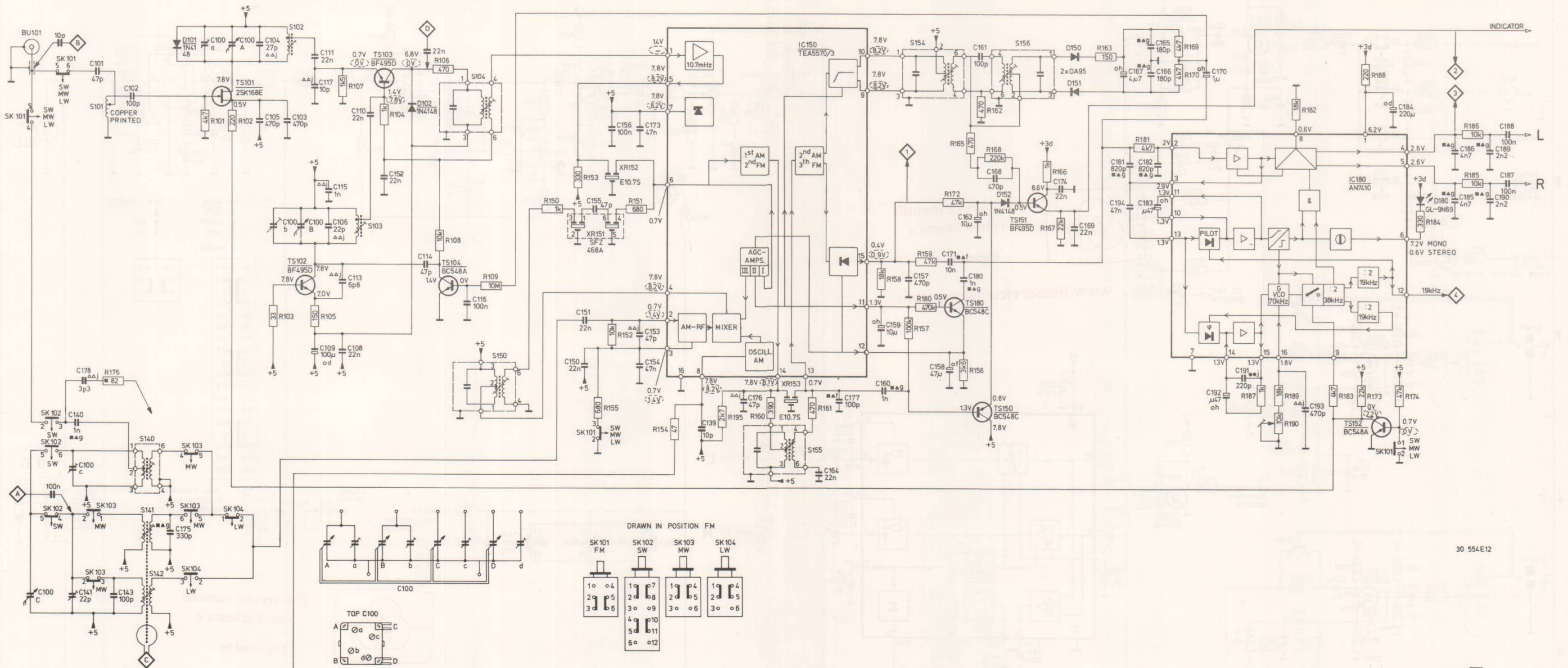
FM-RF						
FM-SK101	87.35 MHz *		Max. cap.	S103** S102**		
	108 MHz *		Min. cap.	C100b C100a		

*±1 kHz modulation

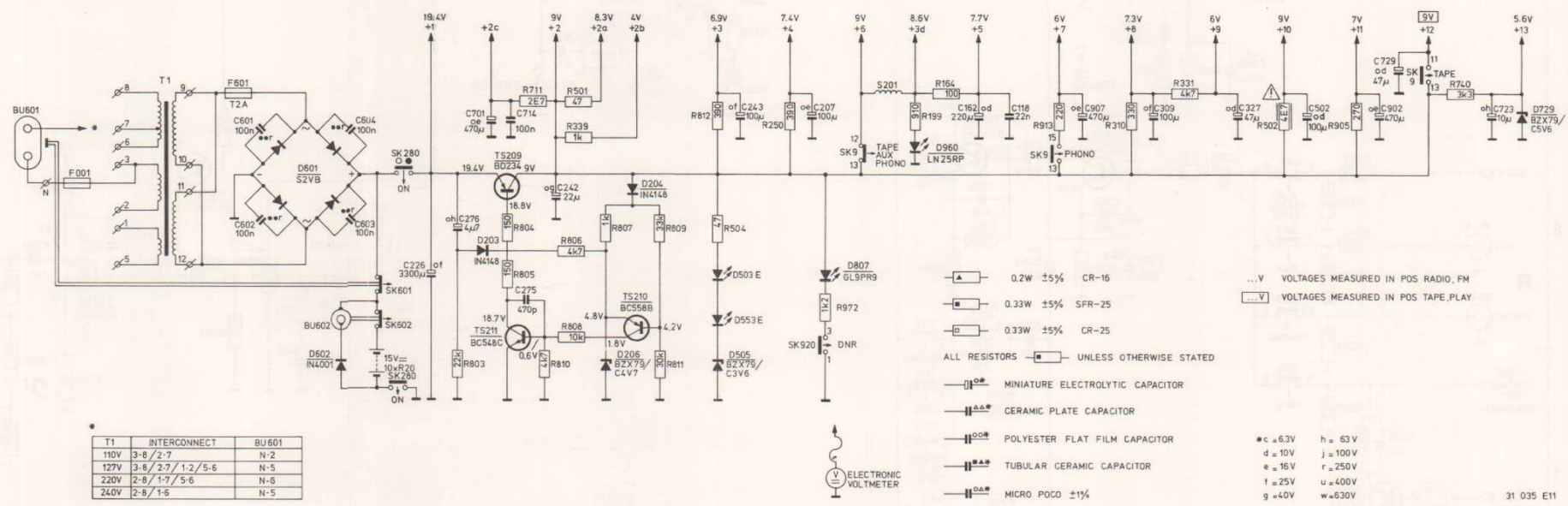
Stereo-Decoder						
FM-SK101	no signal		R190			freq. counter 19 kHz ± 0.2

** Trimming rod 4822 395 50135
 ↓ Repeat - Herhalen - Répéter - Wiederholen - Ricominciare - Repetera - Gentage - Gjentagelse - Toista

R	101	102	103	105	107	104	106	108	109	150-153	155	171	154	160	161	156-159	180	172	162	165-168	163	181	169	170	187	189	190	182	183	188	173	174	184	186	185	R
C	101	102	103-106	108-111	113-117	152	150	151	153-156	173	139	176	164	177	157-160	171	161	163	180	168	174	169	165-167	194	181-183	170	191-193	184	185-190	C						
MISC	BU101	S101	D101	TS101	S102	TS102	S103	TS103	D102	TS104	S104	S150	XR151	XR152	S155	XR153	IC150	S154	TS180	TS150	D152	S156	TS151	D150	D151	IC180	TS152	D180	MISC.							



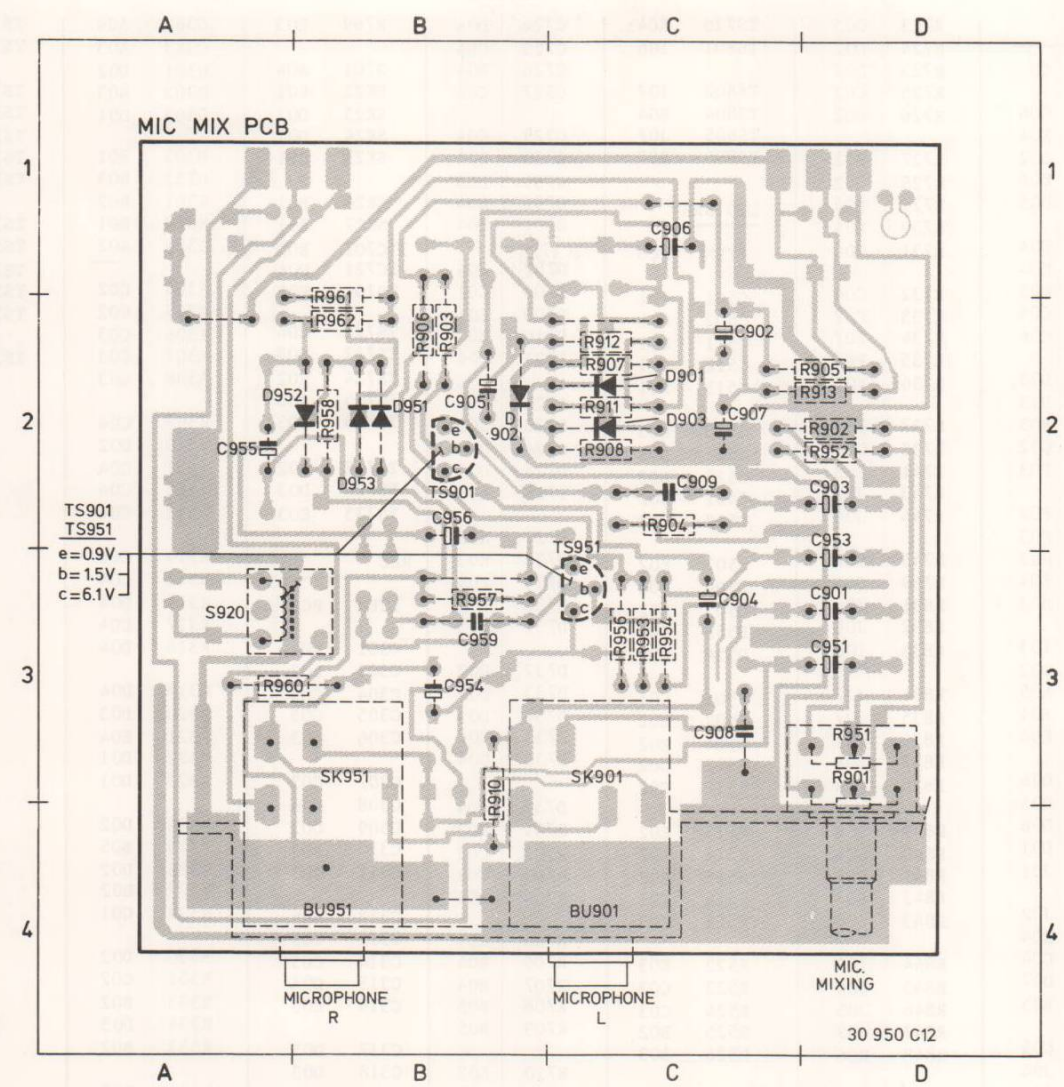
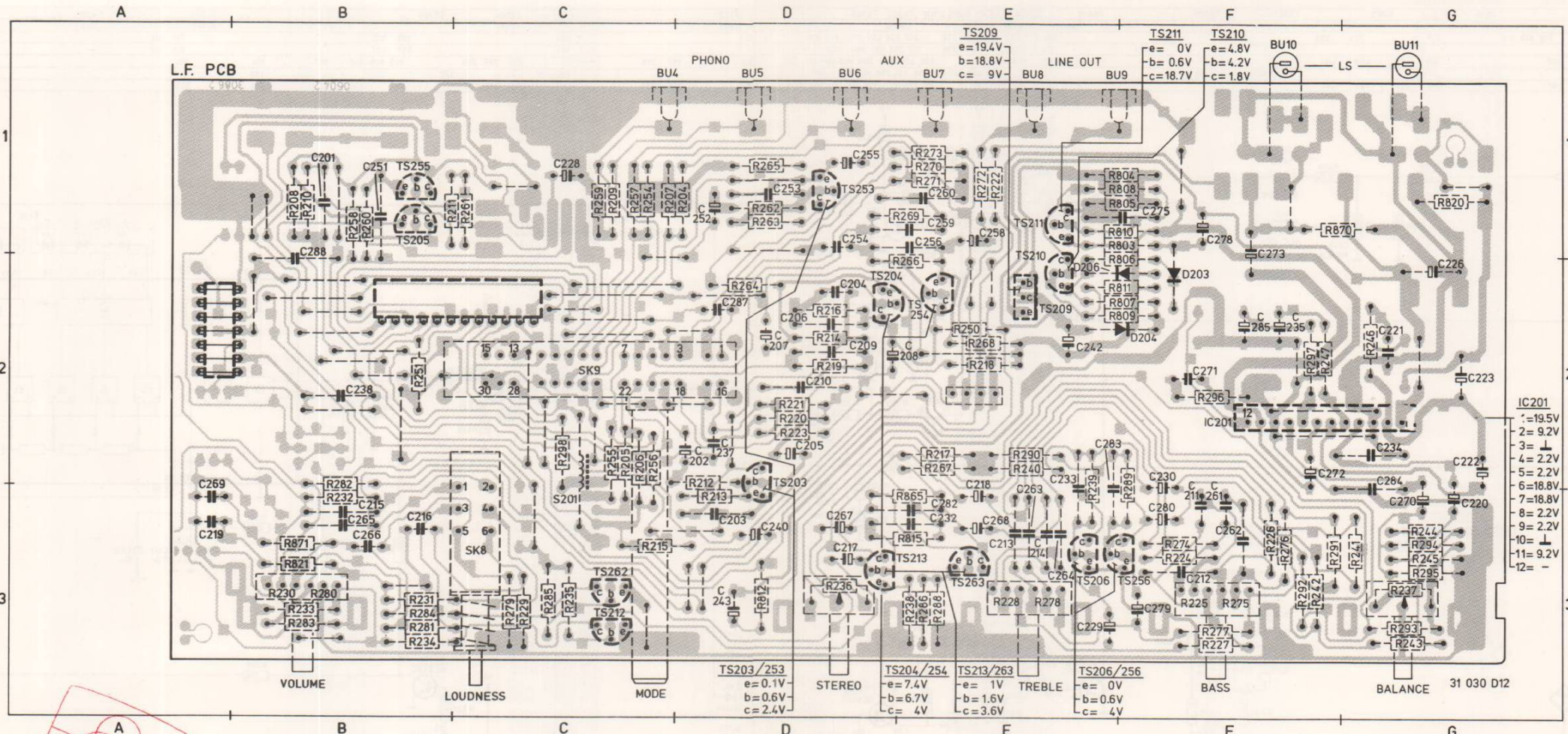
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T1	INTERCONNECT	BU601
110V	3-8/2-7	N-2
127V	3-8/2-7/1-2/5-6	N-5
220V	2-8/1-7/5-6	N-6
240V	2-8/1-5	N-5

- 0.2W ±5% CR-16
 - 0.33W ±5% SFR-25
 - 0.33W ±5% CR-25
 - ALL RESISTORS —□— UNLESS OTHERWISE STATED
 - MINIATURE ELECTROLYTIC CAPACITOR
 - CERAMIC PLATE CAPACITOR
 - POLYESTER FLAT FILM CAPACITOR
 - TUBULAR CERAMIC CAPACITOR
 - MICRO POCO ±1%
- ...V VOLTAGES MEASURED IN POS RADIO, FM
 ...V VOLTAGES MEASURED IN POS TAPE PLAY
- c = 6.3V h = 63V
 d = 10V j = 100V
 e = 16V r = 250V
 t = 25V u = 400V
 g = 40V w = 630V

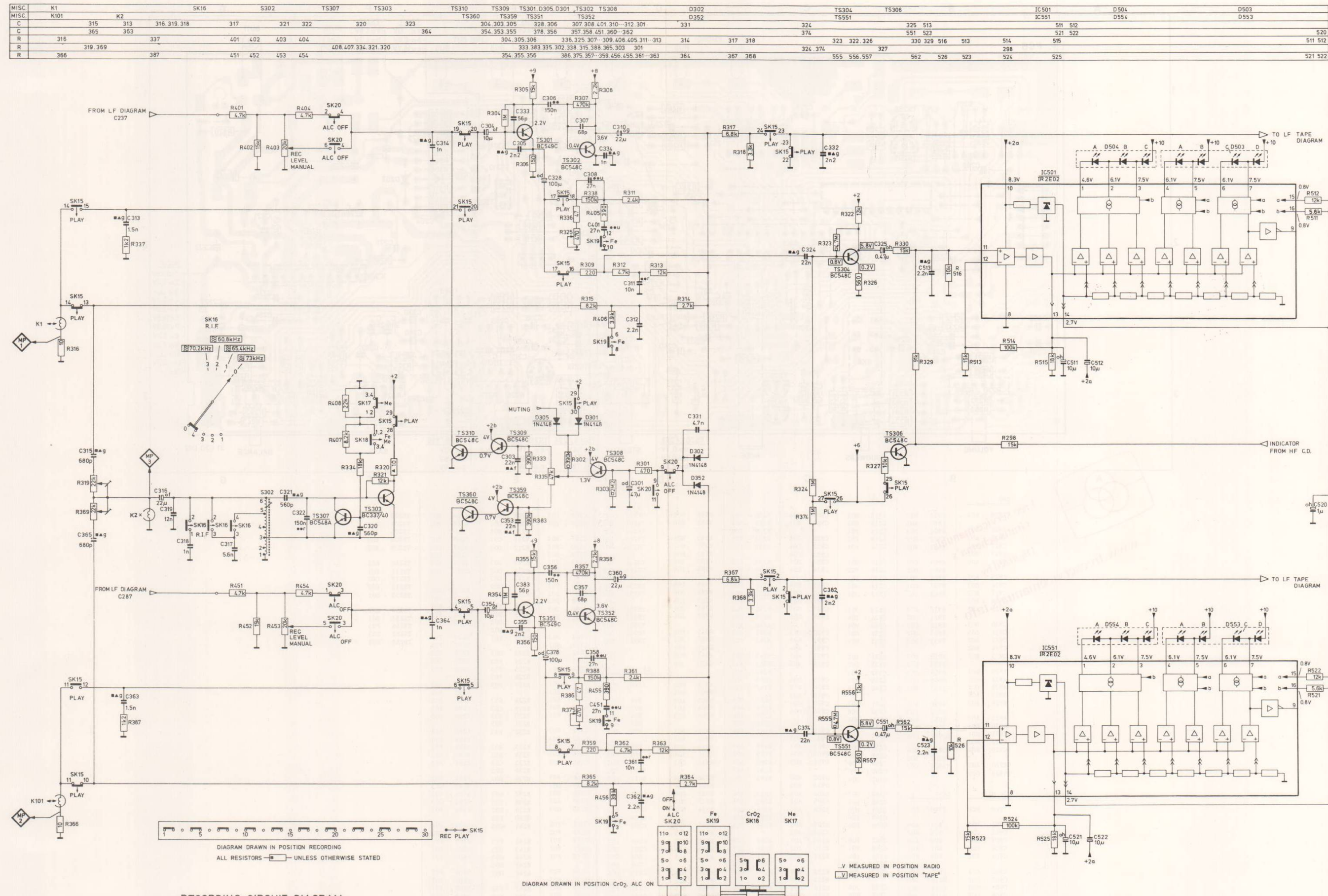
POWER SUPPLY CIRCUIT DIAGRAM



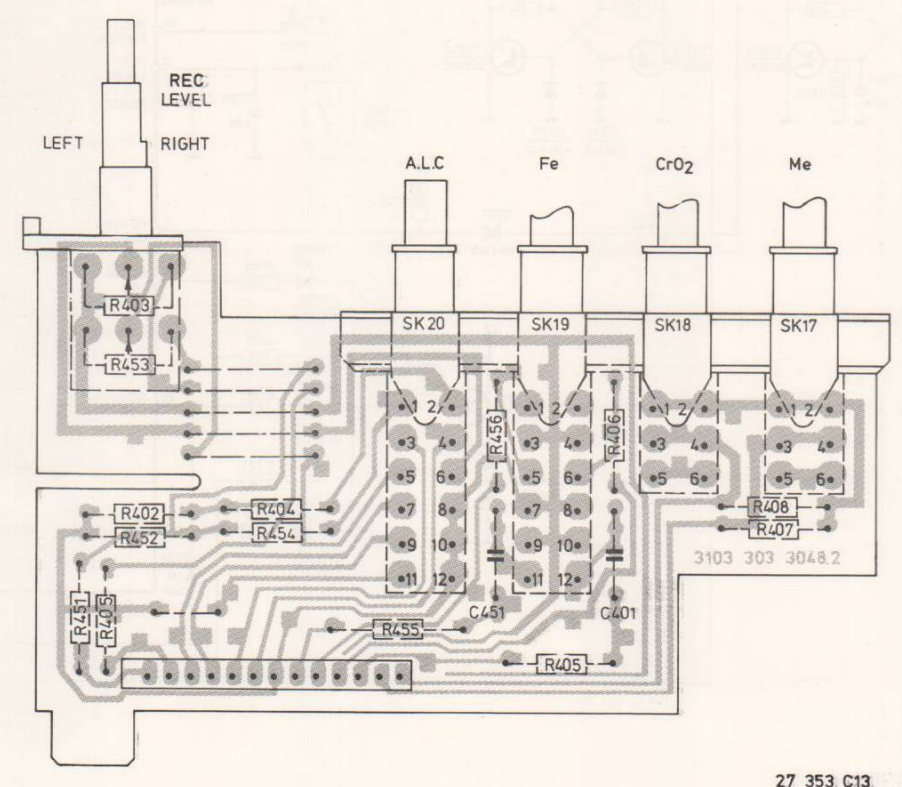
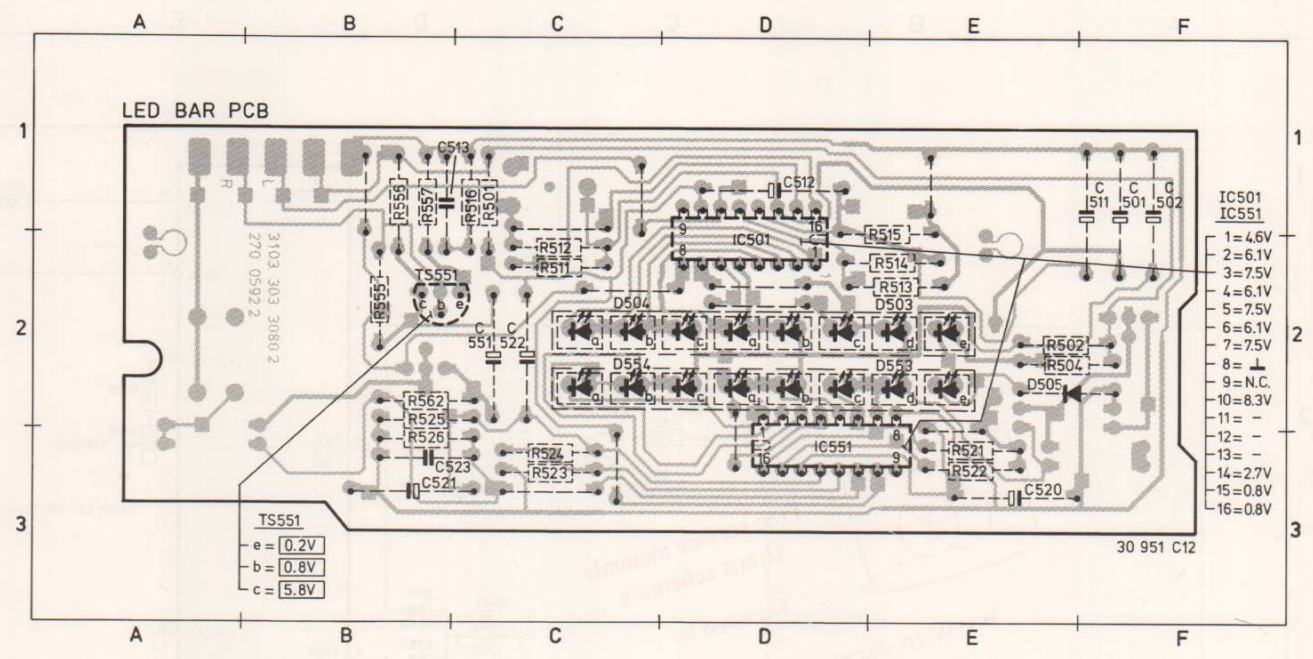
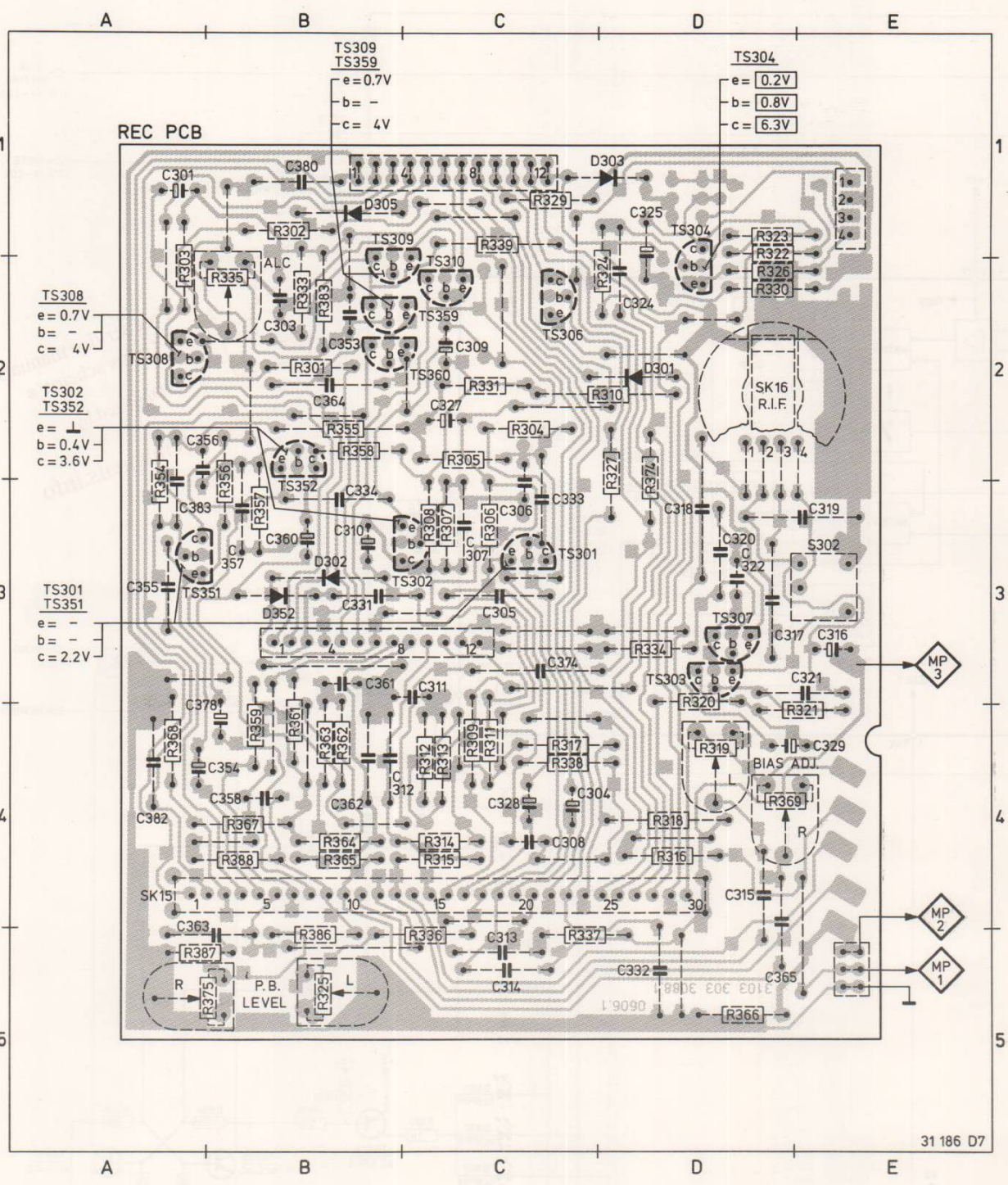
DNR

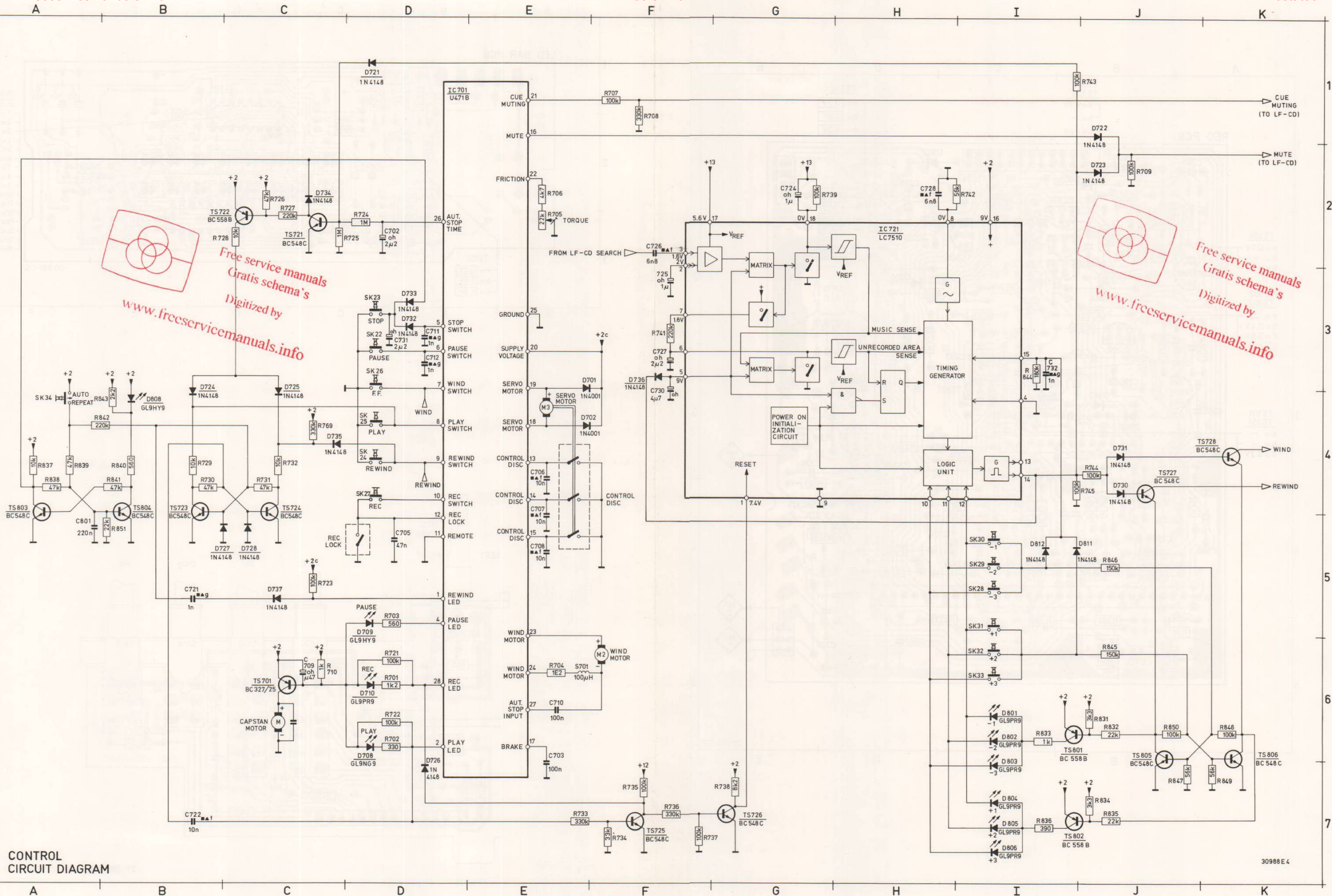
ITEM PCB	D953 B02	C213 H02	C906 B04	R228 H02	R288 G06	SK920 E05	C226 G02	R208 B01	R264 B02	TS203 D02
	L920 A03	C214 H02	C909 B03	R229 E02	R289 H06	TS203 B01	C228 C01	R209 C01	R265 D01	TS204 D02
	R901 D03	C215 F01	C920 C04	R230 F01	R290 H06	TS204 C01	C229 F02	R210 B01	R266 E02	TS205 B01
	A02	C216 F02	C921 C04	R231 F01	R291 H07	TS205 A02	C230 F02	R211 C01	R267 E02	TS206 E03
	C923 B03	C217 F01	C922 C04	R232 E01	R292 H06	TS206 H02	C231 E03	R212 D02	R268 E02	TS209 E02
	A02	C218 G01	C923 D03	R233 F02	R293 I06	TS212 F02	C233 E02	R213 D03	R269 E01	TS210 E02
	C925 A02	C219 F02	C924 E04	R234 F01	R294 I06	TS213 G01	C234 G02	R214 D02	R270 E01	TS211 E01
	A02	C220 I01	C925 E04	R235 F02	R295 I06	TS253 B06	C235 F02	R215 C03	R271 E01	TS212 C03
	C926 C03	C221 J02	C926 E05	R236 H04	R296 J06	TS254 C06	C236 F02	R216 D02	R272 E01	TS213 E03
	C927 B02	C222 J01	C927 D05	R237 I04	R297 I06	TS255 A07	C237 D02	R217 E02	R273 E01	TS253 D01
	B03	C223 J01	C928 D05	R238 G02	R298 J04	TS262 F06	C240 D03	R218 E02	R274 F03	TS254 E02
	C929	C224 I06	C929 E05	R239 H01	R299 J04	TS263 G06	C242 E02	R219 D02	R275 F03	TS255 B01
	C930 B03	C230 H01	C931 E05	R240 H01	R871 F06	TS901 B03	C243 D03	R220 D02	R276 F03	TS256 F03
	C931 C03	C232 G01	C930 D05	R241 H02	R815 F01	TS920 C04	C244 D03	R221 D02	R277 F03	TS262 C03
	C971 B02	C233 G01	C931 E05	R242 H01	R820 J02	TS951 B05	C245 D01	R222 E01	R278 F03	TS263 E03
	C974 B02	C232 G01	C931 A04	R243 I01	R821 F02		C252 D01	R223 D02	R279 E03	
	C975 B02	C235 I02	C933 A05	R244 I01	R865 F06		C254 D01	R224 F03	R279 C03	
	R920 B01	C234 I02	C954 B05	R245 I02	R870 J06		C255 D01	R225 F03	R280 B03	
	R921 C01	C238 B02	C955 B05	R246 J02			C256 E01	R226 F03	R281 B03	
	R922 C01	C237 C03	C956 B05	R247 I02	R902 A03		C258 E01	R227 F03	R282 B02	
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	R925 A03	C252 B06	C974 E04	R255 A06	R906 B03		C261 F03	R230 B03	R285 C03	
	R970 B01	C253 B06	C975 E04	R256 A06	R907 B03		C262 F03	R231 B03	R286 E03	
	R971 C01	C254 C06	D901 B03	R257 A06	R908 B04		C263 E03	R232 B03	R288 E03	
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	IC920 B02	C256 C06	D903 B04	R259 A06	R911 B04		C265 B03	R234 B03	R290 E02	
	SK920 A03	C259 C06	D951 B05	R260 A07	R912 C03		C266 B03	R235 C03	R291 F03	
	TS920 C02	C260 C06	D952 B05	R261 A07	R920 C04		C267 D03	R236 D03	R292 F03	
		C261 G06	D953 B05	R262 B06	R921 C04		C268 E03	R237 G03	R293 G03	
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		C264 H06	R206 A01	R266 C06	R924 D05		C271 F02	R240 E02		
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		C267 F06	R209 A02	R269 C06	R932 A05		C274 F01	R243 F03	R803 F01	
		C268 F07	R210 A02	R270 C07	R933 A04		C275 F01	R244 G03	R805 F01	
		C270 I06	R211 A02	R271 C07	R954 A05		C276 F01	R245 G03		
		C271 J07	R212 B01	R272 E07	R956 B04		C277 F01	R246 G02	R806 F02	
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		C274 J06	R215 B02	R275 G07	R960 B05		C280 F03	R249 G02	R810 F01	
		C275 J07	R216 C01	R276 G07	R961 B05		C281 F03	R250 F02		
		C276 J07	R217 G01	R277 G07			C282 E03	R251 B02		
		C277 J07	R218 H01	R278 H07	R962 C05		C283 F02	R252 C02	R811 F02	
		C278 J07	R219 C02	R279 E07	R964 B05		C284 G02	R253 C02	R812 D03	
		C279 J07	R220 C02	R279 E07	R970 C04		C285 F02	R254 C01	R815 E03	
		C280 J07	R221 C02	R280 F06	R971 C04		C286 G02	R255 C02	R820 G01	
		C281 J07	R222 E04	R281 F06	S920 E05		C287 D02	R256 C02	R821 B03	
		C282 G06	R223 C03	R282 B06			C288 B02	R257 C01		
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		C284 I06	R225 G02	R284 F06	IC201A I01		C290 C01	R259 C01		
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		C38								

CONTROL	R723 D05	TS728 K04	C724 D04	R769 E03	C382 A04	TS301 C03
ITEM CD	R724 D02	TS801 I06	C725 C04	C701 A04	C383 A03	TS302 C03
M1 C06	R725 D02	TS802 I07	C726 D04	SK22 E01	D301 D02	TS303 D03
M3 E04	R725 C02	TS804 B04	C727 C04	SK23 D01	D302 B03	TS304 D01
C702 D02	R726 C02	TS805 J07	C729 E04	SK24 D01	D303 D01	TS306 C02
C703 E06	R727 C02	TS806 K07	C730 D04	SK25 C01	D305 B01	TS307 D03
C705 D05	R728 C02		C731 E05		D352 B03	TS308 A02
C706 E04	R729 B04	LED BAR	C732 E04	SK26 B01	R301 B02	TS309 B01
C707 E04	R730 B04	ITEM PCB	D701 B04	SK27 B01	R302 B01	TS310 C02
C708 E05	R731 C04		D702 B04	IC701 B03	R303 A02	TS351 A03
C709 C06	R732 C04	C501 F01	D708 C01	IC721 D04	R304 C02	TS352 B02
C710 E06	R733 F07	C502 F01	D709 E01	TS701 E02	R305 C02	TS359 C02
C711 D03	R734 F07	C511 F01	D710 B01	TS721 C04	R306 C03	
C712 D03	R735 F07	C512 D01	D721 D04	TS722 E03	R307 C03	
C721 B05	R736 F07	C513 B01	D722 B04	TS725 A03	R308 C03	
C724 G02	R737 F07	C520 E03	D723 C05	TS726 C03	R309 C04	
C725 F03	R738 G07	C521 B03	D724 D03		R310 D02	
C726 F02	R741 F03	C523 B03	D725 D03	TS727 D02	R311 C04	
C727 F03	R743 J01	C551 C02	D726 A03	TS728 D03	R312 C04	
C728 H02	R744 J04	C552 C02	D727 E03	TS733 E03	R313 C04	
C730 F04	R745 I04	D503 E02	D728 E03		R314 C04	
C731 D03	R769 C04	D504 C02	D729 E04	REC	R315 C04	
C732 I03	R831 J06	D505 E02	D730 D03	ITEM PCB	R316 D04	
C739 G02	R832 J06	D553 E02	D731 D03	C301 A01	R317 C04	
C801 A05	R833 I06	D554 C02	D732 D02	C303 B02	R318 D04	
D701 E04	R834 J07	R501 C01	D733 D05	C304 C04	R319 D04	
D702 E04	R835 J07	R502 E02	D734 D05	C305 C03	R320 D03	
D708 D06	R836 I07	R504 E02	D735 C02	C306 C03	R321 E04	
D709 D05	R837 A04	R511 C02	D736 D04	C307 C03	R322 D01	
D710 D06	R838 A04	R512 C02	D737 C04	C308 C04	R323 D01	
D721 D01	R839 A04	R513 E02	R701 B02	C309 C02	R324 D02	
D722 J01	R840 B04	R514 E02	R702 C02	C310 B03	R325 B05	
D723 J02	R841 B04	R515 E02	R703 C02	C311 C03	R326 D02	
D724 B04	R842 B04	R516 C01	R704 A04	C312 B04	R327 D02	
D725 C04	R843 B04	R521 E03	R705 A04	C313 C05	R329 C01	
D726 D07	R844 I03	R522 E03	R706 B04	C314 C05	R330 D02	
D727 B05	R845 J06	R523 C03	R707 B04	C315 D04	R331 C02	
D730 J04	R846 J05	R524 C03	R708 B05	C316 E03	R333 B02	
D731 J04	R847 J07	R525 B02	R709 B05	C317 D03	R334 D03	
D732 D03	R848 K06	R526 B03	R710 E02	C318 D03	R335 B02	
D733 D03	R849 K07	R555 B02	R711 B04	C319 E03	R336 C05	
D734 C02	R850 J06	R556 B01	R721 C02	C320 D03	R337 C05	
D735 C04	R851 B05	R557 B01	R722 C03	C321 E03	R338 C04	
D736 F04	S701 E06	R562 B02	R723 C04	C322 D03	R339 C01	
D737 C05	SK22 D03	IC501 D02	R724 C04	C324 D02	R354 A02	
D801 I06	SK25 D04	TS551 B02	R725 D04	C325 D01	R355 B02	
D802 I06	SK26 D04		R726 E03	C327 C02	R356 B02	
D803 I07	SK27 D04	CONTROL	R727 D03	C328 C04	R357 B03	
D804 I07	SK28 I05	ITEM PCB	R728 D03	C329 E04	R358 B02	
D805 I07	SK29 I05	BU13 B02	R729 D03	C331 B03	R359 B04	
D806 I07	SK30 I05	C701 A04	R730 E03	C332 D05	R361 B04	
D808 B04	SK31 I06	C702 A03	R731 D02	C333 C03	R362 B04	
D811 I05	SK32 I06	C703 C04	R732 D02	C334 B03	R363 B04	
D812 I05	SK33 I06	C705 C03	R733 B03	C353 B02	R364 B04	
R701 D06	IC701 D01	C706 C03	R734 A03	C354 A04	R365 B04	
R702 D06	IC721 H02	C707 C03	R735 D03	C355 A03	R366 D05	
R703 D05	TA803 A04	C708 C03	R736 D03	C356 B02	R367 B04	
R704 E06	TS701 C06	C709 E03	R737 D03	C357 B03	R368 A04	
R705 E02	TS721 C02	C710 A04	R738 D04	C358 B04	R369 D04	
R706 E02	TS722 C02	C711 C03	R739 D04	C360 B03	R374 D02	
R707 F01	TS723 B04	C712 C03	R740 D05	C361 B03	R375 A05	
R708 F01	TS724 C04	C713 C03	R741 D04	C362 B04	R383 B02	
R709 J02	TS725 F07	C714 B04	R742 C04	C363 A05	R386 B05	
R710 C06	TS726 G07	C718 C03	R743 D04	C364 B02	R387 A05	
R721 D06	TS727 J04	C721 D03	R744 D03	C365 D05	R388 B04	
R722 D06		C723 D05	R745 D05	C374 C03	S302 E03	
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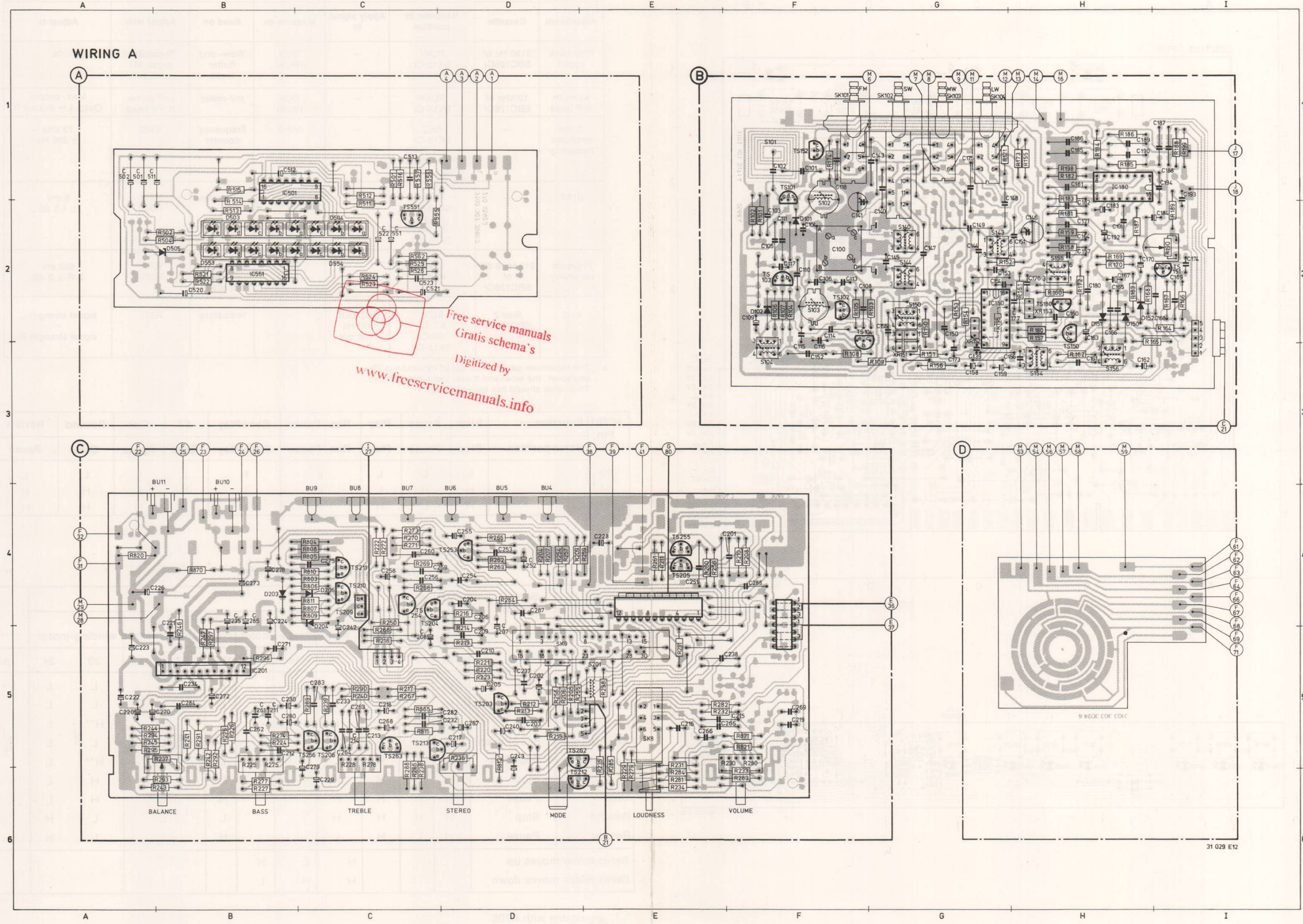
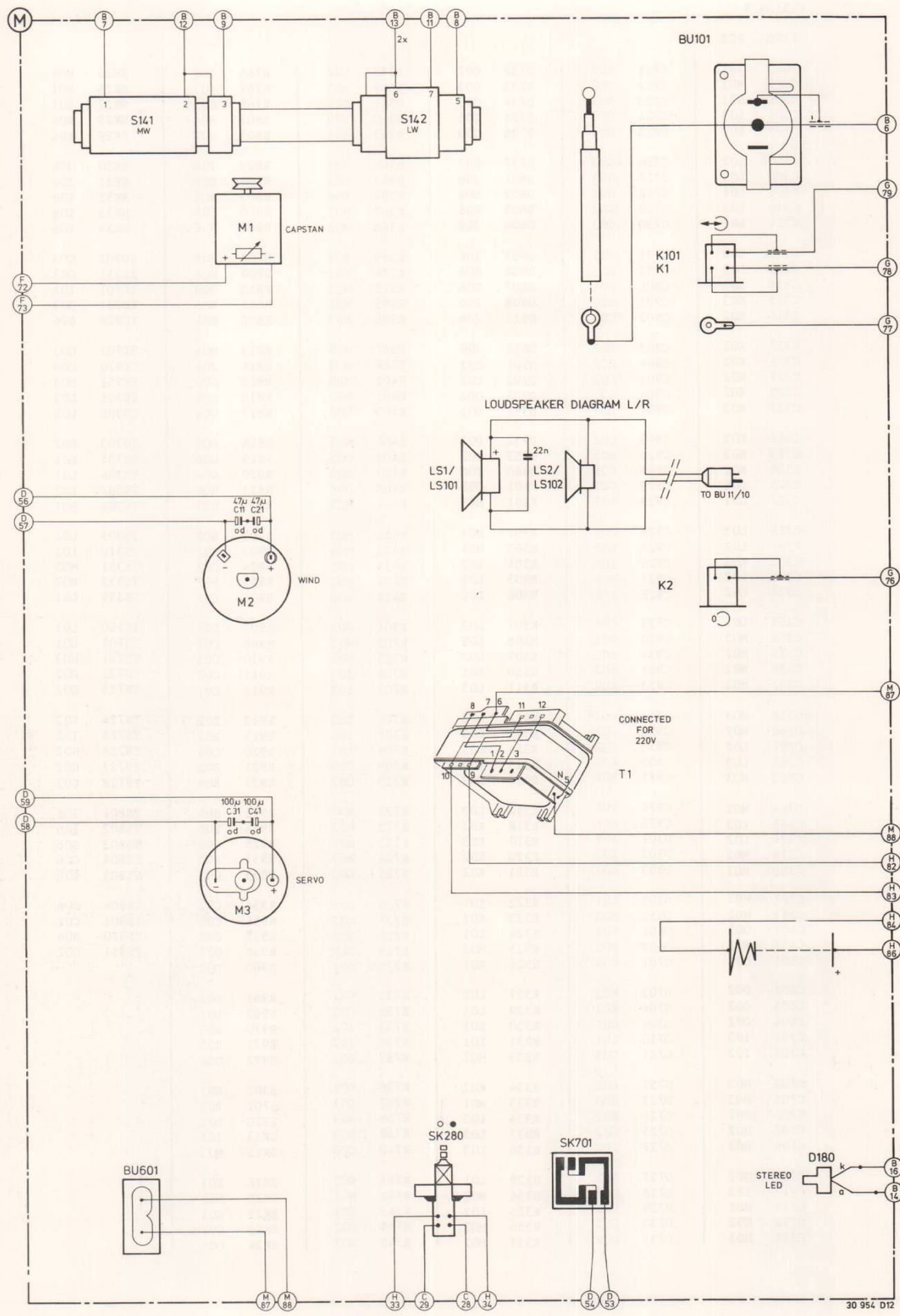
RECORDING CIRCUIT DIAGRAM





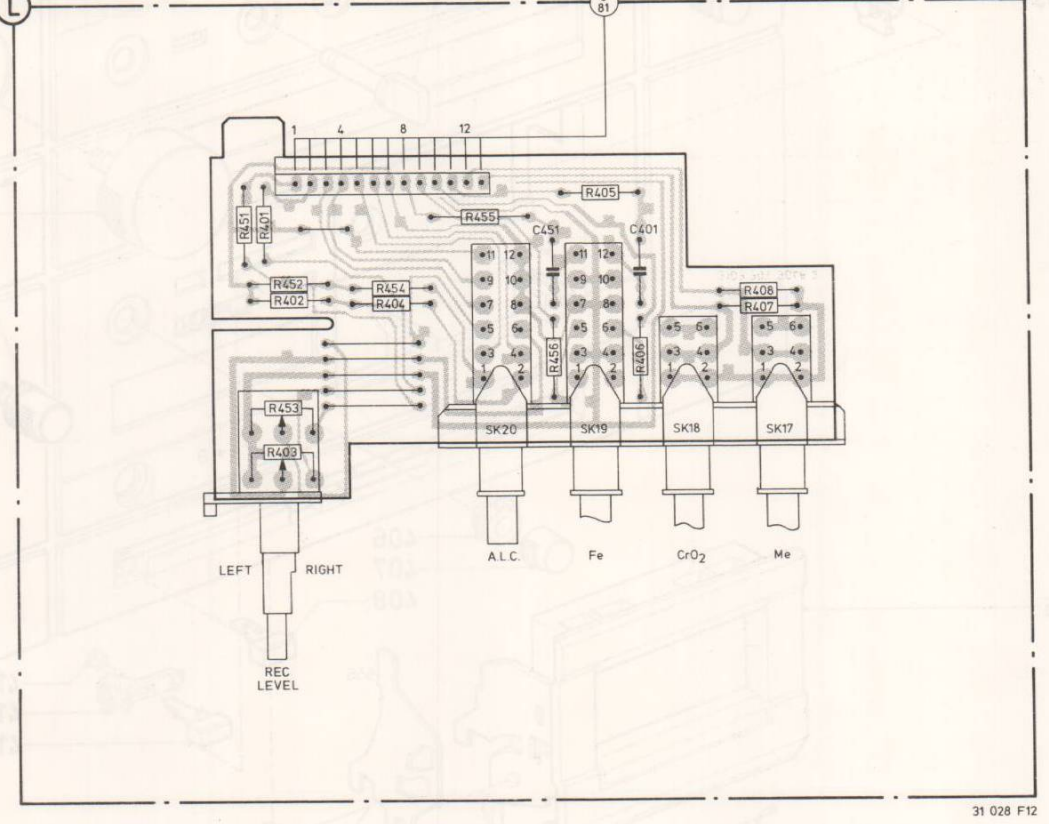
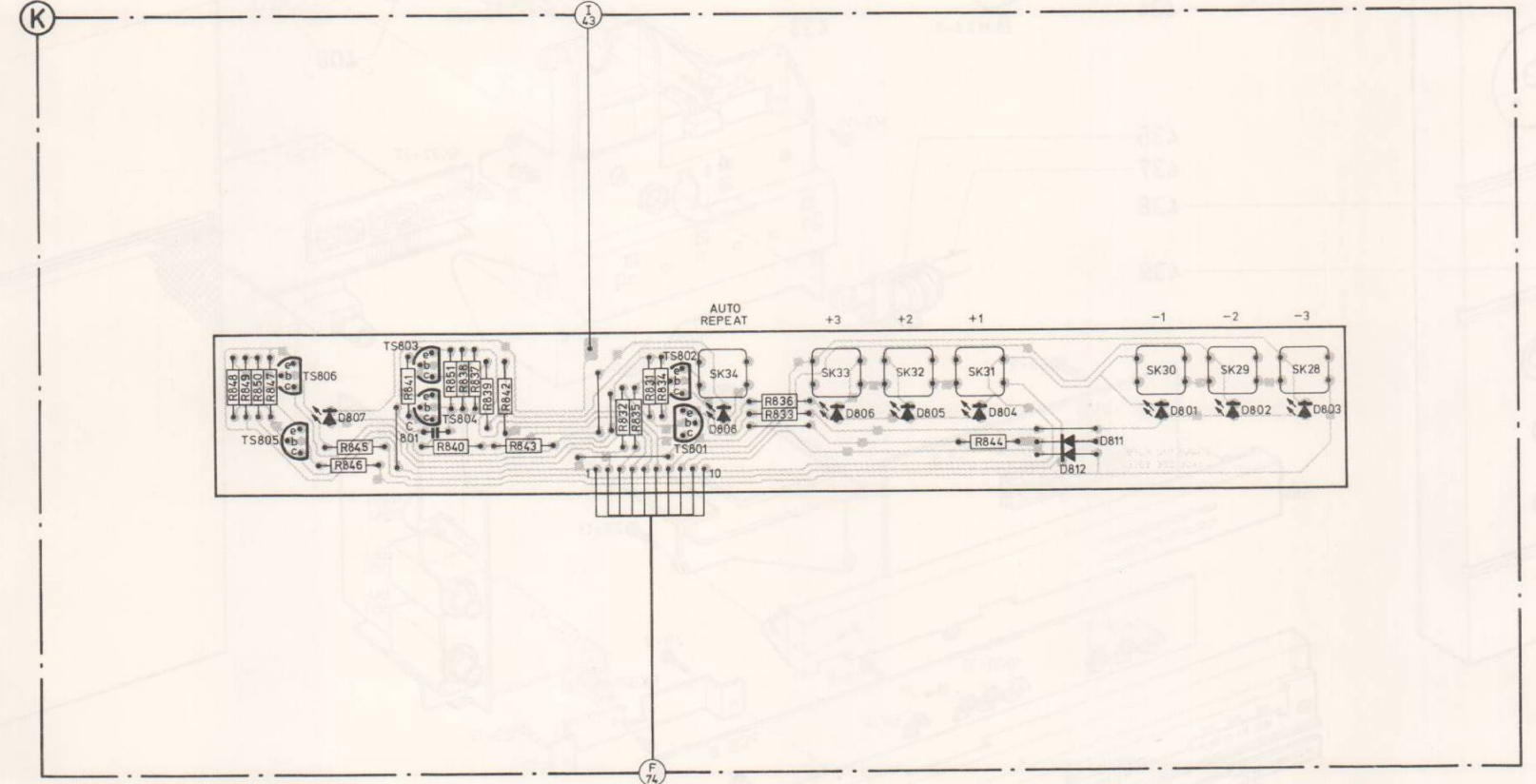
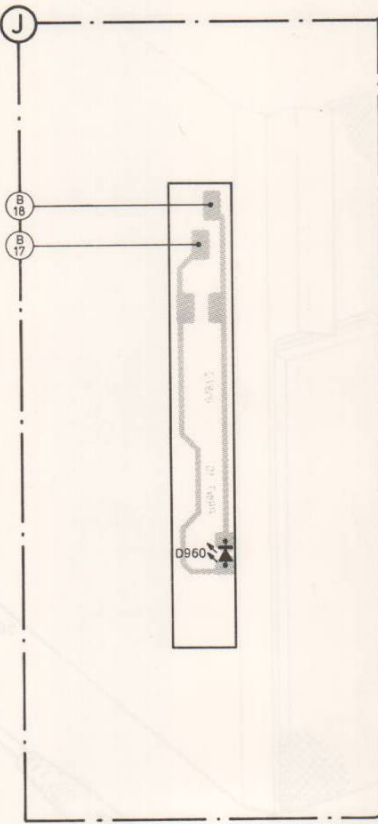
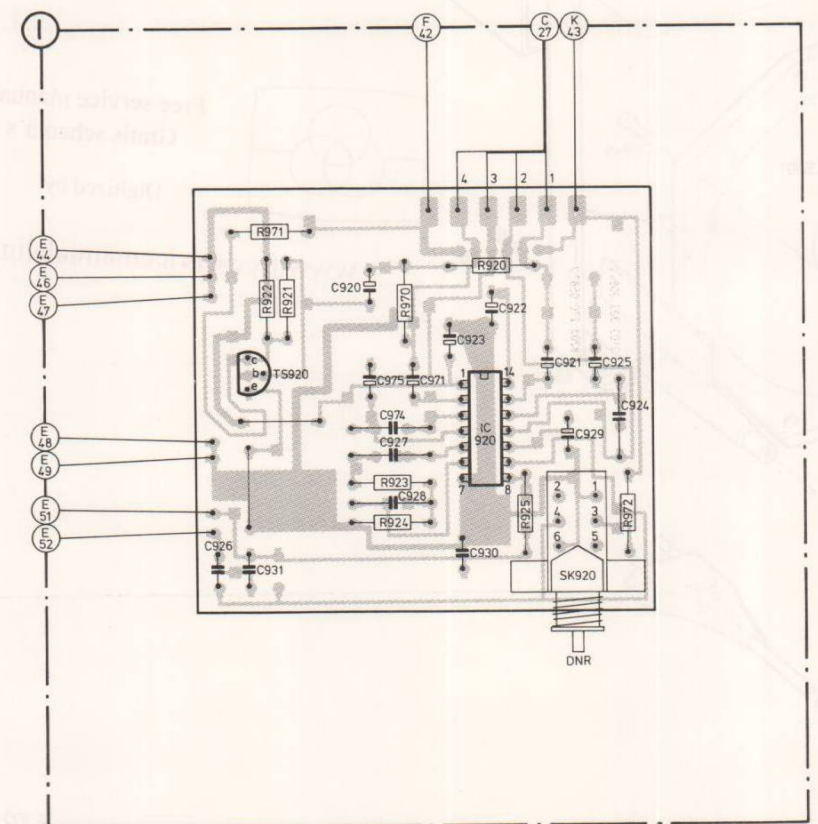
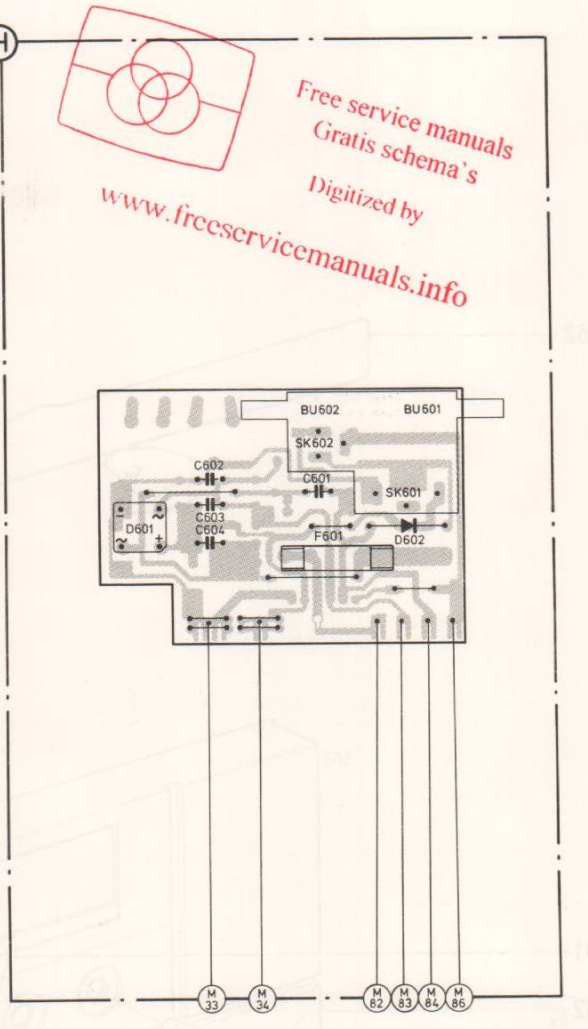
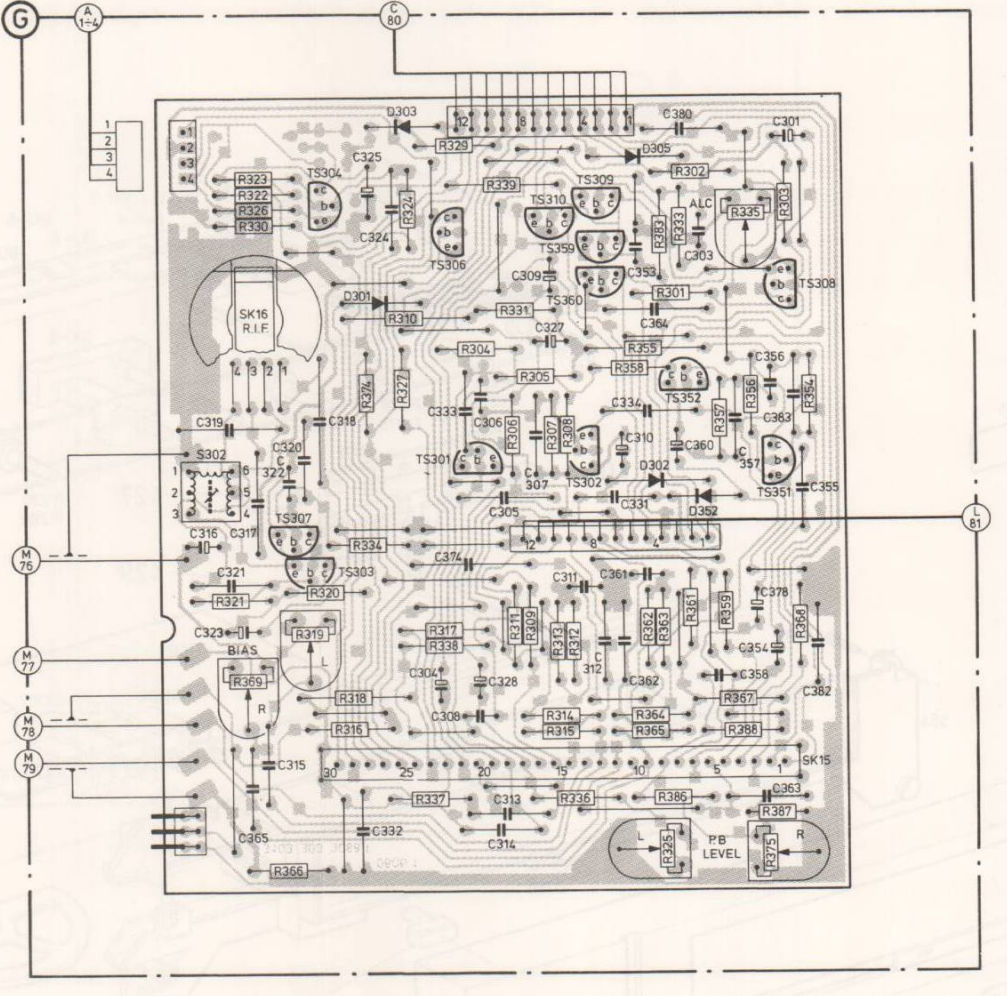
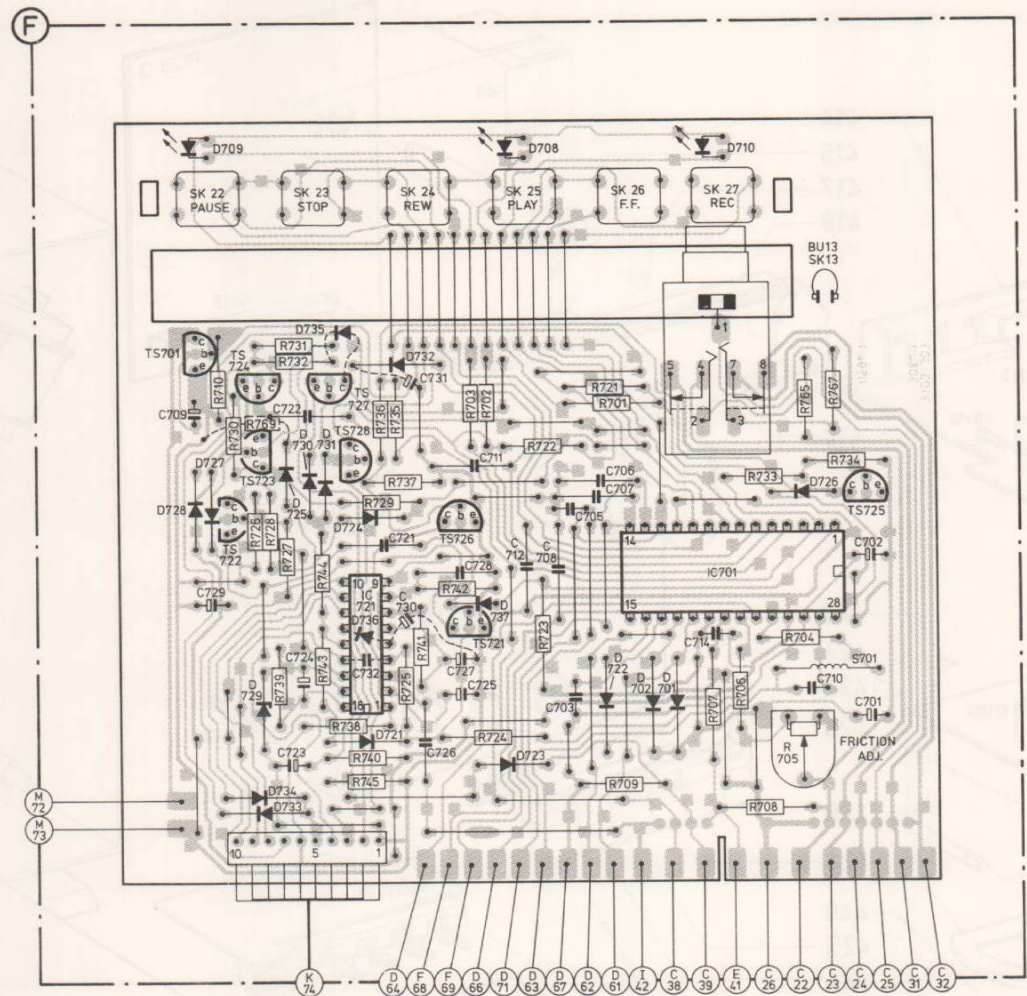
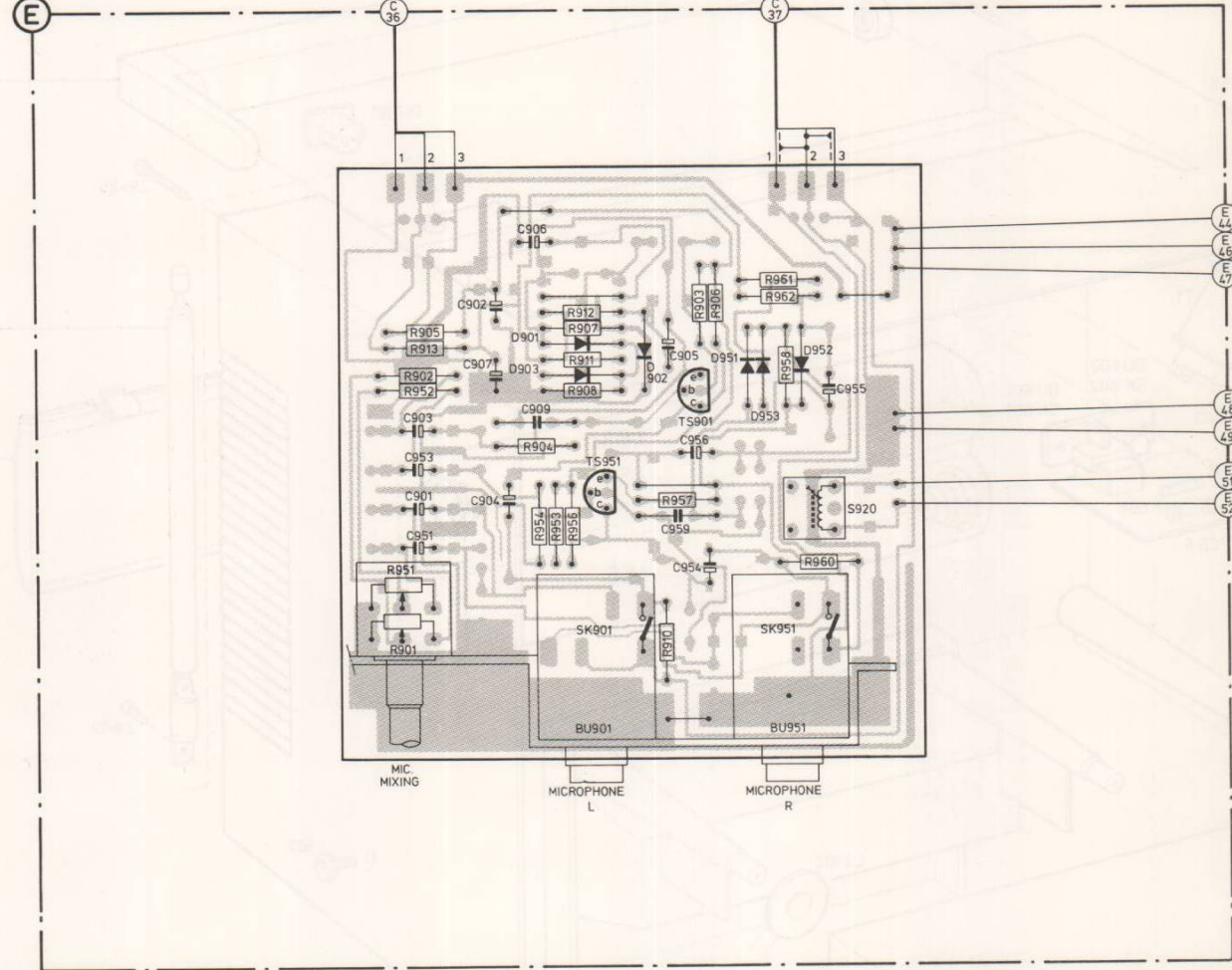
CONTROL CIRCUIT DIAGRAM

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401 4822 413 31111
 402 4822 413 31112
 403 4822 535 70618
 404 4822 450 80847
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ITEM PCB

BU4	D04	C184	I02	C272	B05	R172	H02	R256	D05	R806	C04
BU5	D04	C185	H01	C273	B04	R173	H01	R257	D04	R807	C04
BU6	D04	C186	H01	C275	C04	R174	F01	R258	E04	R808	C04
BU7	C04	C187	I01	C276	B04	R180	H02	R259	D04	R809	C04
BU8	C04	C188	I01	C279	C05	R181	H02	R259	C04	R810	C04
BU9	C04	C189	H01	C280	B05	R182	H01	R260	E04	R811	C04
SK9	D05	C190	H01	C282	C05	R183	H01	R261	E04	R812	D05
C100	F02	C191	H02	C283	C05	R184	H01	R262	D04	R815	C05
C101	F01	C192	H02	C284	B05	R185	H01	R263	D04	R820	A04
C102	F01	C193	I01	C285	B04	R186	H01	R264	D04	R821	F05
C103	F02	C194	I01	C287	D04	R187	H02	R265	D04	R865	C05
C104	F02	C201	E04	C288	F04	R188	I01	R266	C04	R870	B04
C105	F02	C202	D05	C501	A01	R189	I02	R267	C05	R871	F05
C106	F02	C203	D05	C502	A01	R190	I02	R268	C05	S101	F01
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C114	F02	C209	D05	C522	C02	R206	D05	R274	B05	S144	G02
C115	F02	C210	D05	C523	C02	R207	D04	R275	B05	S150	G02
C116	F02	C211	B05	C551	C02	R208	F04	R276	B05	S154	H03
C117	F02	C212	B05	D101	F02	R209	D04	R277	B06	S155	H02
C118	F01	C213	C05	D102	F02	R210	F04	R278	C05	S156	H03
C139	G03	C214	C05	D150	H02	R211	E04	R279	E06	S201	E05
C140	G02	C215	E05	D151	H02	R212	D05	R280	F05	IC150	G02
C141	F02	C216	E05	D152	H02	R213	D05	R281	E06	IC180	H01
C143	G01	C217	D05	D203	B04	R214	D05	R282	E05	IC501	B01
C144	G02	C218	C05	D204	C04	R215	D05	R283	F06	IC551	B02
C145	G02	C219	F05	D206	C04	R216	D04	R284	E06	SK101	F01
C146	H02	C220	A05	D503	B02	R217	C05	R285	E05	SK102	G01
C147	G02	C222	A05	D504	C02	R218	C05	R286	C06	SK103	G01
C148	G02	C223	A05	D505	B02	R219	D05	R288	C06	SK104	G01
C149	G02	C224	B04	D553	B02	R220	D05	R289	C05	TS101	F01
C150	G02	C226	A04	D554	C02	R221	D05	R290	C05	TS102	F02
C151	H02	C229	C06	R101	F02	R222	C04	R291	B05	TS103	F02
C152	F03	C230	B05	R102	F02	R223	D05	R292	B05	TS104	F02
C153	G02	C231	B04	R104	F02	R224	B05	R293	B06	TS150	H02
C154	G02	C232	C05	R105	F02	R225	B05	R294	A05	TS151	I02
C155	G02	C233	C05	R106	F02	R226	B05	R295	A05	TS152	F01
C156	H03	C234	B05	R107	F02	R227	B06	R296	B05	TS180	H02
C157	H02	C235	B04	R108	F03	R228	C05	R297	B05	TS203	D05
C158	G03	C237	D05	R109	G03	R229	E06	R298	E05	TS204	C04
C159	G03	C238	E05	R121	G01	R230	F05	R501	C01	TS205	E04
C160	H02	C240	D05	R150	G02	R231	E05	R502	B02	TS206	C05
C161	H03	C242	C04	R151	G03	R232	E05	R504	B02	TS209	C04
C162	H03	C243	D05	R152	G02	R233	F06	R511	C02	TS210	C04
C163	H02	C251	E04	R153	G02	R234	E06	R512	C01	TS211	C04
C164	H02	C252	D04	R154	G02	R235	E05	R513	B02	TS212	D06
C165	H02	C253	D04	R155	H01	R236	D05	R514	B01	TS213	C05
C166	H02	C255	D04	R156	G03	R237	B05	R515	B01	TS253	D04
C167	H02	C256	C04	R157	H02	R238	C06	R516	C01	TS254	C04
C168	I02	C258	C04	R158	H02	R239	C05	R521	B02	TS255	E04
C169	I02	C260	C04	R159	H02	R240	C05	R522	B02	TS256	C05
C170	H02	C261	B05	R160	H02	R241	B05	R523	C02	TS262	D05
C171	H02	C262	B05	R161	H02	R242	B05	R524	C02	TS263	C05
C173	G03	C263	C05	R162	H03	R243	B06	R525	C02	TS551	C02
C174	I02	C264	C05	R163	H02	R244	A05	R526	C02	XR151	G03
C175	G01	C265	E05	R164	I02	R245	A05	R555	C02	XR152	G02
C176	H02	C266	E05	R165	H02	R246	B05	R556	C01	XR153	H02
C177	H02	C267	D05	R166	I02	R247	B05	R557	C01		
C180	H02	C268	C05	R167	I02	R250	C04	R562	C02		
C181	H01	C269	F05	R168	H02	R251	E05	R803	C04		
C182	H02	C270	A05	R169	H02	R254	D04	R804	C04		
C183	H02	C271	B05	R170	H02	R255	D05	R805	C04		

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

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

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.

-R-				-SK-			
R190	Trimpot 10K	4822 100 10035		SK23÷34		4822 277 30683	
R225	Potm. bass R225/275	4822 100 20105		SK280	Power switch	4822 276 11061	
R228	Potm. treble R228/278	4822 100 20105		SK101	SK101-104	4822 276 40287	
R230	Potm. vol R230/280	4822 100 20104		SK920	DNR switch	4822 276 10898	
R236	Potm stereo control	4822 101 20683					
R237	Potm. balance	4822 100 20103					
R246	NFR25 2E2 0.33 W	4822 111 30492		-D-			
R296	NFR25 2E2 0.33 W	4822 111 30492		D601	OA95	4822 130 30191	
R319	22K Carb lin 0.1 W	4822 100 10051			S2VB200V	4822 130 30993	
R325	470E Carb lin 0.1 W	4822 100 10038			1N4001G	4822 130 31438	
R335	47K Carb lin 0.1 W	4822 100 10079			1N4148	4822 130 30621	
R369	22K Carb lin 0.1 W	4822 100 10051		D206	BZX79-B4V7	4822 130 34174	
R375	470E Carb lin 0.1 W	4822 100 10038		D729	BZX79-B5V6	4822 130 34173	
R403	R403/453 REC MAN	4822 100 30035		D808	GL9HY9	4822 130 31468	
R502	NFR25 4E7 0.33 W	4822 111 30499		D180	GL9NG9	4822 130 31433	
R705	22K Carb lin 0.1 W	4822 100 10051			GL9PR9	4822 130 31432	
R901		4822 100 20097		D960	LN25RP	4822 130 31923	
				D504	3x red	4822 130 31469	
-C-				D554	3x red	4822 130 31469	
	Tub. cer. cap 47P 50 V	4822 122 10181		D503	5x green	4822 130 32056	
	Tub. cer. cap 100P 50 V	4822 122 10183		D553	5x green	4822 130 32056	
	Tub. cer. cap 470P 50 V	4822 122 31435					
	Tub. cer. cap 22N 16 V	4822 122 10166		-TS-			
	Tub. cer. cap 100N 12 V	4822 122 10207			BC337-40	4822 130 41344	
	Tub. cer. cap 47N 25 V	4822 122 31817			BC548	4822 130 40938	
	Tub. cer. cap 68P 50 V	4822 122 31814			BC548A	4822 130 40948	
	Tub. cer. cap 560P 50 V	4822 122 31693			BC548B	4822 130 40937	
	Tub. cer. cap 56P 50 V	4822 122 31813			BC548C	4822 130 44196	
C100	Varco	4822 125 50134			BC549	4822 130 40964	
C141	Trimcap 1.8-22P	4822 125 50045			BC550C	4822 130 41096	
C144	Tub. cer. cap 15P 50V	4822 122 31812			BC558	4822 130 40941	
C146	Trimcap 1.8-22P	4822 125 50045			BC558B	4822 130 44197	
C148	PS. cap 340P 630 V	4822 121 50615			BD234 = BD238	4822 130 40917	
					BF495D	4822 130 41498	
-S-					2SK168E	4822 130 41943	
S102		4822 158 10515			BC327/25	4822 130 41246	
S103		4822 158 10515		-IC-			
S104		4822 153 50206		IC180	AN7410	4822 209 80683	
S140	Coil SW	4822 156 30811		IC201	AN7166	4822 209 81503	
S141	Coil MW ferrite bar	4822 156 10685		IC501	IR-2E02	4822 209 80943	
S142	Coil LW ferrite bar	4822 156 10691		IC551	IR-2E02	4822 209 80943	
S143	Coil MW osc.	4822 156 10687		IC721	LC7510	4822 209 81502	
S144	Coil SW osc.	4822 156 10689		IC920	LM1894N	4822 209 81501	
S150	IF coil AM	4822 156 10688		IC150	TEA5570/3	4822 209 81503	
XR151	Cer. filter 468 kHz	4822 242 70275		IC701	U471B	4822 209 81415	
XR152	Cer. filter 10.7 MHz	4822 242 70249					
XR153	Cer. filter 10.7 MHz	4822 242 70249		-Miscellaneous-			
S154	IF coil FM	4822 156 10686		BU013	Headphone socket	4822 267 30385	
S155	IF coil AM	4822 156 10726		BU101	Aerial socket	4822 267 30384	
S156	Coil FM	4822 157 51184		BU601	Mains/DC socket	4822 267 30461	
S201	680 μH	4822 157 50968		BU951	MIC socket	4822 267 20222	
S302	Erase oscillator	4822 156 50026		F601	T2A	4822 253 30025	
S701		4822 157 51372		LS001	AD70850/X4W	4822 240 50179	
S920		4822 156 10451		LS002	Piezo tweeter	4822 280 10135	
-SK-				LS101	AD70850/X4W	4822 240 50179	
SK8	Loudness switch	4822 276 10897		LS102	Piezo tweeter	4822 280 10135	
SK9	Mode switch	4822 273 10095		T001	Transformer	4822 146 20772	
SK15	REC/PLAY switch	4822 276 10945			Scale self adhesive	4822 333 30142	
SK17	Tape sel. SK17-19	4822 276 40281			Fuse holder	4822 492 62373	
SK22	SK22-27	4822 277 30683			Selftap screw 2.9x38	4822 502 30235	