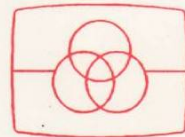


Clock-radio 90AS090/00/01/40/45/60

Service
Service
Service

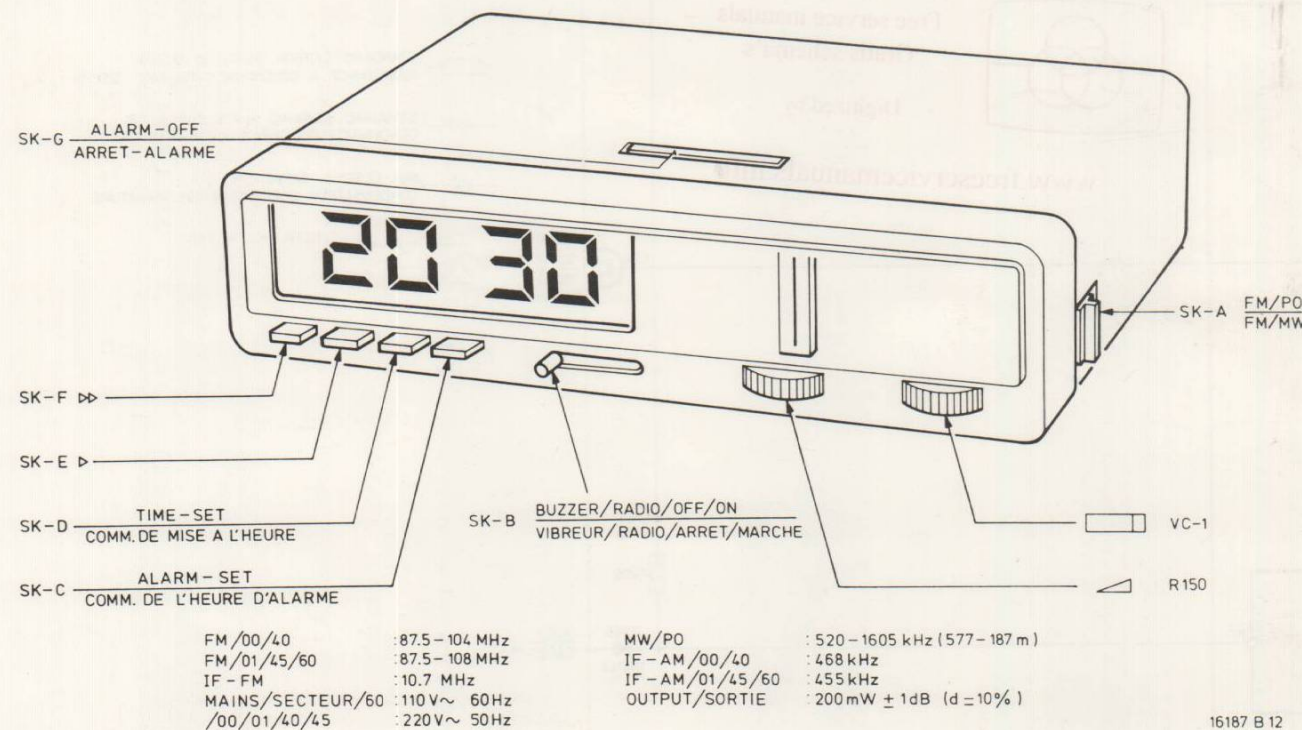


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Service Manual



(GB)

SK-A	Radio wave range selector switch	FM/MW
SK-B	Selector switch for alarm by radio or buzzer	Buzzer/Radio off/on
SK-C	Alarm time switch	Alarm set
SK-D	Clock time switch	Time set
SK-E	Switch for slow time setting	▷
SK-F	Switch for fast time setting	▷▷
VC-1	Radio tuning	
R150	Volume control	

(F)

SK-A	Commutateur gammes d'onde de la radio	FM/MW
SK-B	Interrupteur pour alarme par radio ou par sonnerie	Buzzer/Radio off/on
SK-C	Commutateur de l'heure d'alarme	Alarm set
SK-D	Commutateur de l'heure	Time set
SK-E	Commutateur de mise à l'heure	▷
SK-F	Commutateur de mise à l'heure	▷▷
VC-1	Accord de la radio	
R150	Commande de volume	

(I)

SK-A	Commutatore selezione gamme d'onda senzone radio	FM/MW
SK-B	Interruttore d'allarme tramite radio o tramite soneria	Buzzer/Radio off/on
SK-C	Commutatore dell'ora di allarme	Alarm set
SK-D	Commutatore dell'ora	Time set
SK-E	Commutatore di regolazione lenta dell'ora	▷
SK-F	Commutatore di regolazione veloce dell'ora	▷▷
VC-1	Sintonizzazione della radio	
R150	Comando del volume	

(DK)

SK-A	Bølgelængdeomskifter	FM/MW
SK-B	Vælger for alarm fra radio eller brummer	Buzzer/Radio off/on
SK-C	Alarm-afbryder	Alarm set
SK-D	Tid afbryder	Time set
SK-E	Omskifter for langsom tidsindstilling	▷
SK-F	Omskifter for hurtig tidsindstilling	▷▷
VC-1	Stationsindstilling	
R150	Styrekontrol	

(NL)

SK-A	Golfbereikschakelaar van de radio	FM/MW
SK-B	Keuze-schakelaar voor alarmering door radio of zoemer	Buzzer/Radio off/on
SK-C	Schakelaar voor de alarmtijd	Alarm set
SK-D	Schakelaar voor de kloktijd	Time set
SK-E	Schakelaar voor het langzaam instellen van de tijd	▷
SK-F	Schakelaar voor het snel instellen van de tijd	▷▷
VC-1	Afstemming van de radio	
R150	Volumeregelaar	

(D)

SK-A	Bereichschalter für Radio	FM/MW
SK-B	Wahlschalter für Alarmieren durch Radio oder Summer	Buzzer/Radio off/on
SK-C	Alarmzeitschalter	Alarm set
SK-D	Uhrzeitschalter	Time set
SK-E	Schalter für langsamen Uhrvorlauf	▷
SK-F	Schalter für schnellen Uhrvorlauf	▷▷
VC-1	Radioabstimmung	
R150	Lautstärkeregler	

(S)

SK-A	Våglängdsomkopplare	FM/MW
SK-B	Väckning med radio eller sig signal	Buzzer/Radio off/on
SK-C	Omkopplare för väckningstid	Alarm set
SK-D	Omkopplare för klocktid	Time set
SK-E	Omkopplare för inställning av tid, långsamt	▷
SK-F	Omkopplare för inställning av tid, snabbt	▷▷
VC-1	Stationsinställning	
R150	Volymkontroll	

(SF)

SK-A	Radion aaltoalueen valintakytkin	FM/MW
SK-B	Valintakytkin, herätys radiolla tai summerilla	Buzzer/Radio off/on
SK-C	Herätysajan kytkin	Alarm set
SK-D	Ajan kytkin	Time set
SK-E	Ajanasetuksen kytkin, hidas	▷
SK-F	Ajanasetuksen kytkin, nopea	▷▷
VC-1	Radion viritys	
R150	Äänenvoimakkuuden säädin	

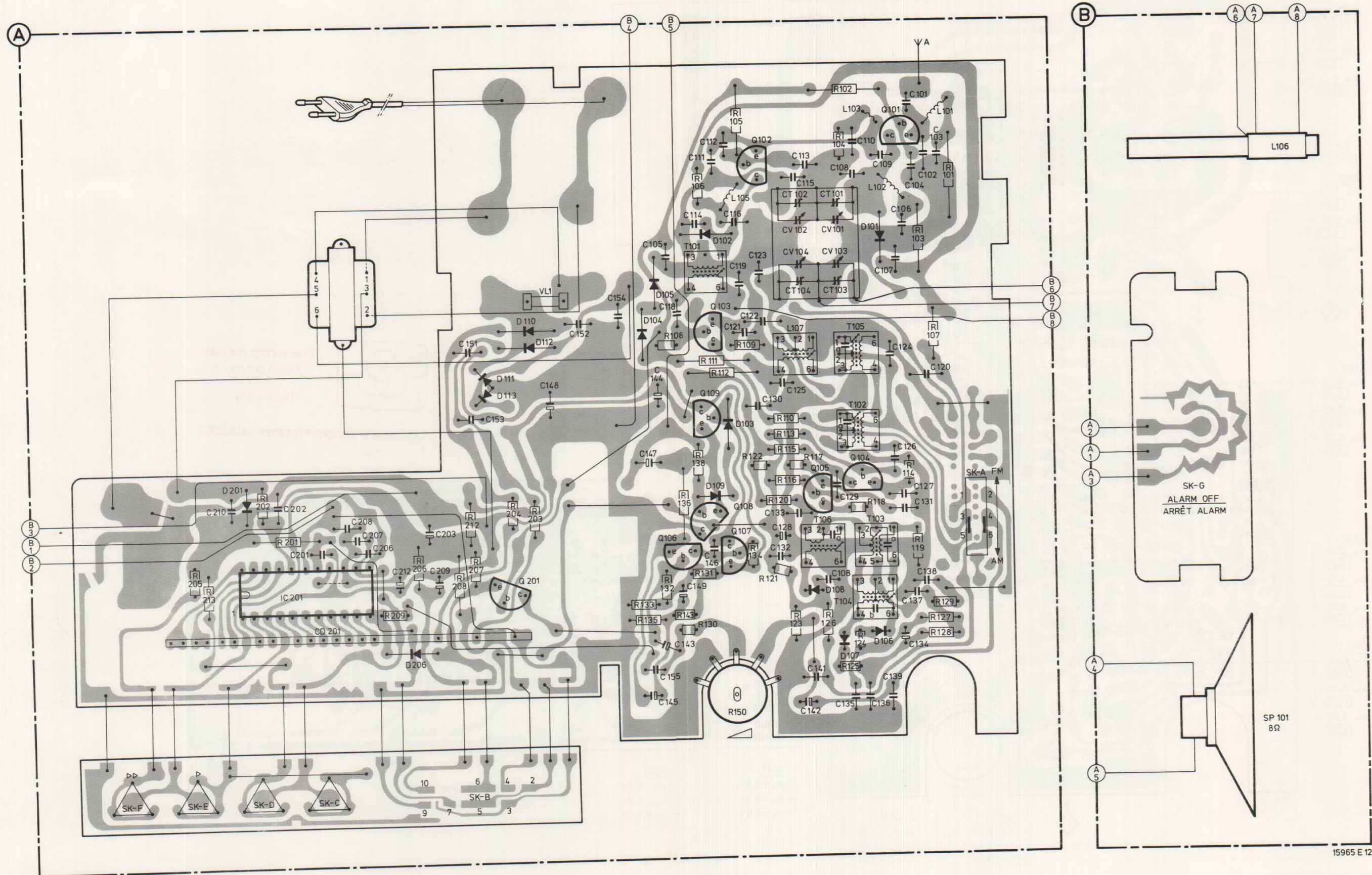


PHILIPS

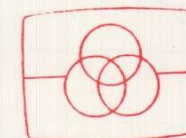
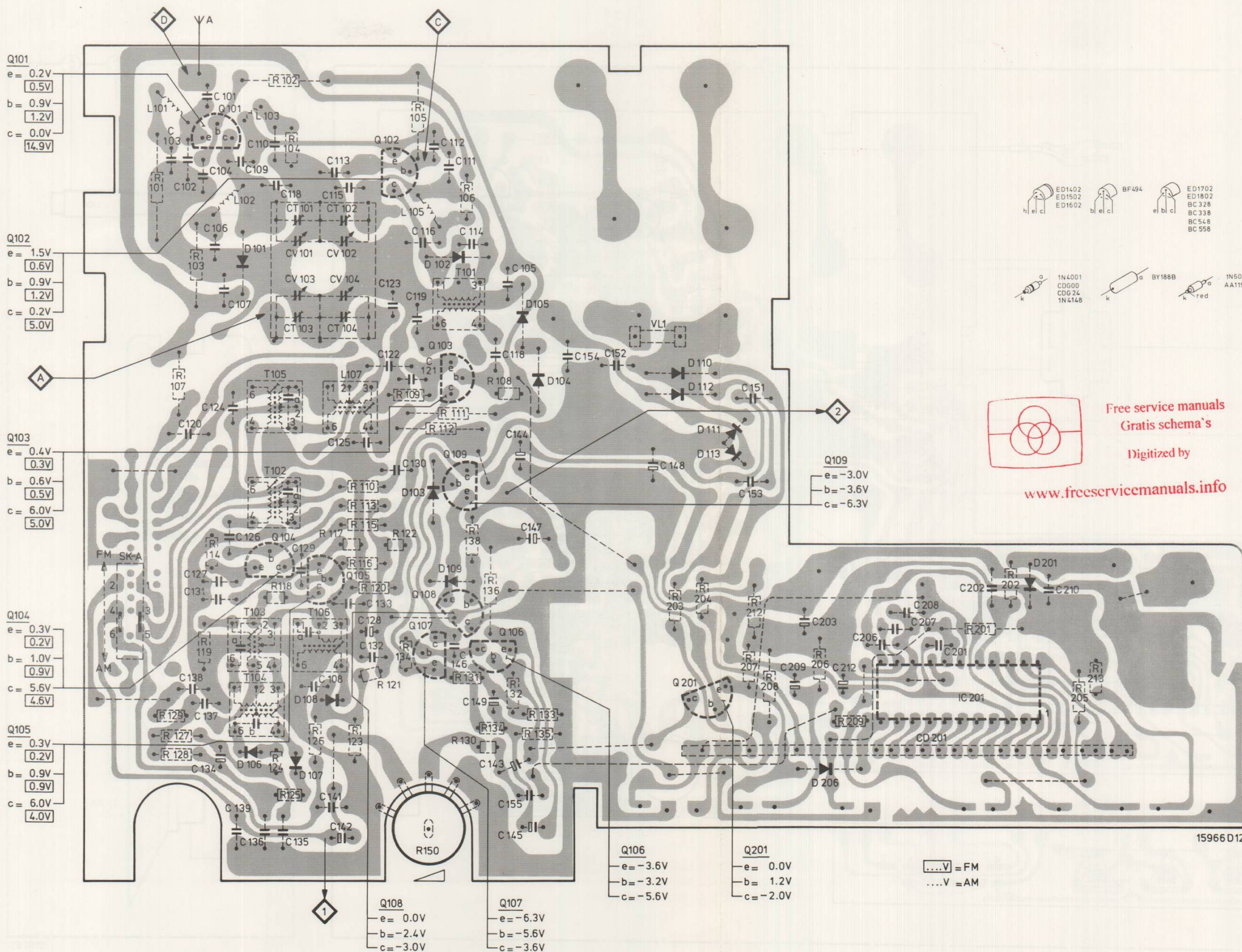
THE CIRCUIT DIAGRAM HAS BEEN DRAWN IN POS. AM/RADIO ON
LE CIRCUIT EST REPRÉSENTÉ EN POS. AM FONCTIONNEMENT/MARCHE RADIO

16117E12

MISC.	D201	IC 201	CD 201	D206	Q 201	D110 ÷ 113.VL1	D104.D105	Q106 ÷ 109.Q103.D102.D103.Q102.Q105.Q104.D108.D101.Q101.	D106.D107	SP101	L106
L - T								T101 L105 L107 T102 ÷ T106 L103 L102 L101			
C 101 ÷ 125								105.118.114.111.121.112.116.119.123.122.125.115.113.CV101 ÷ 104.106 ÷ 110.124.120.101 ÷ 104			
C 126 ÷ 212	210	202	201	206 208 212	203.209	151.153	148 152	154.147.145.143.144.149.146	128 ÷ 130.132.133.142.141.CT101 ÷ 104	126.127.131.134 ÷ 139	
R 101 ÷ 117								108 106.111.112.105.109 110.113.115.117.104.102		114.103.107 101	
R 118 ÷ 213	213 205	202 201		203.209 206	208.212.207	204.203		143.138.130 ÷ 136.150 120 ÷ 122 123 ÷ 126 118		119 127 ÷ 129	



MISC	D107 . D106	Q101 . D101 . D108 . Q104 . Q105 . Q102 . D103 . D102 . Q103 . Q106 ÷ 109	D105 . D104	VL1 . D110 ÷ 113	Q201	D206	CD 201	IC 201	D201
L - T	L101 L102 L103	T102 ÷ 106 L107 L105 T101							
C 101 ÷ 125	101 ÷ 104 . 120 . 124 . 106 ÷ 110 . CV101 ÷ 104 . 113 . 115 . 125 . 122 . 123 . 119 . 116 . 112 . 121 . 111 . 114 . 118 . 105								
C 126 ÷ 212	134 ÷ 139 . 131 . 127 . 126	129 . CT 101 ÷ 104 . 141 . 142 . 133 . 132 . 128 ÷ 130	146 . 149 . 144 . 143 . 145 . 147 . 154	152 148	153 . 151	209 . 203	212 208 206	201	202 210
R 101 ÷ 117	101 107 . 103 . 114	102 . 104 . 117 . 115 . 113 . 110	109 . 105 . 112 . 111 . 106	108					
R 118 ÷ 213	127 ÷ 129 119	118 123 ÷ 126 120 ÷ 122	150 . 130 ÷ 136 . 138 . 143		203 . 204 207 . 212 . 208	206 209		201 202	205 213



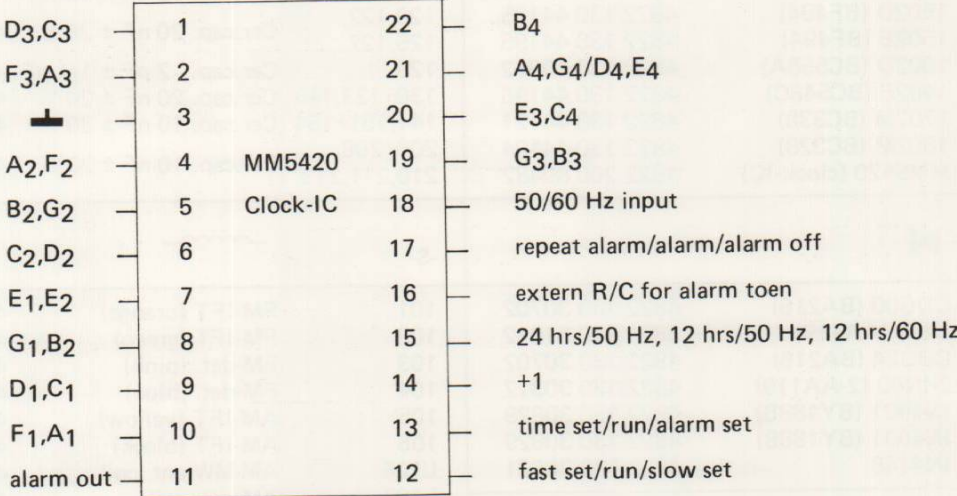
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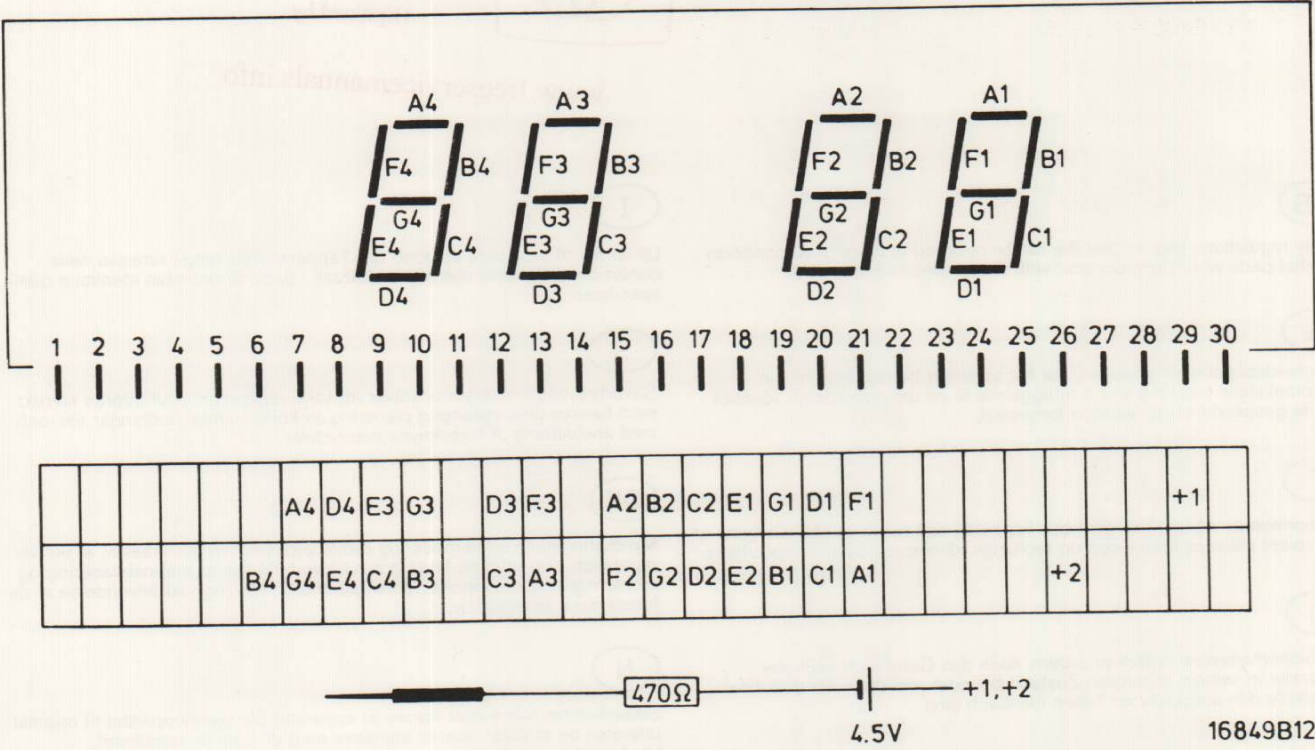
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15966 D12

CONNECTIONS CLOCK-IC



10-HRS HRS 10-min min



16849B12

Wave range	Signal to		Var.cap.	Adjust	
SK-A					
MW (PO) 520-1605 kHz	1 via 10 KpF		Min.cap.	T106	Max.
				T105	
	512 kHz		Max.cap.	L107	Max.
	1635 kHz		Min.cap.	CT104	
	600 kHz		Tune in	L106	
FM 2	1400 kHz			CT103	
	10.7 MHz via 10 KpF		Min.cap.	T104	Max.
				T103	
				T102	
				T101	
	/00/40 /01/45/60		Max.cap.	L105	Max.
	86.5 MHz 86.5 MHz		Min.cap.	CT102	
	105 MHz 109 MHz		Tune in	L102	
	90 MHz 90 MHz			CT101	
	103 MHz 109 MHz				

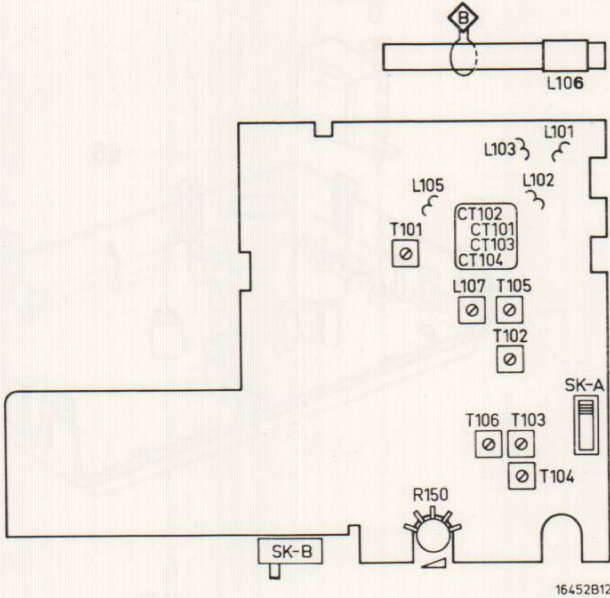
↑ Repeat - Herhalen - Répéter - Wiederholen - Ricominciare - Repetera - Gentage - Gjentagelse - Toista

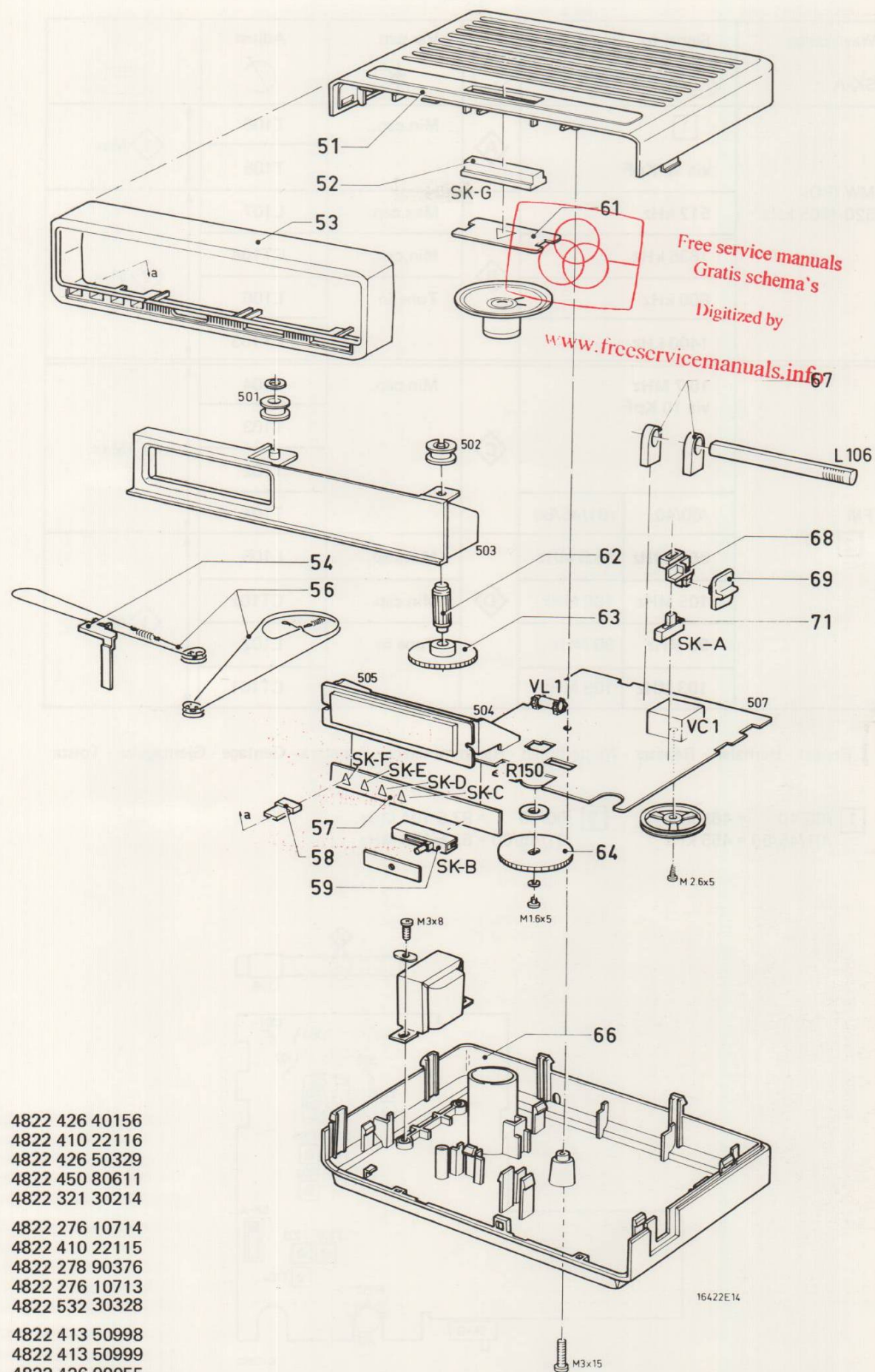
1

 /00/40 = 468 kHz
 /01/45/60 = 455 kHz

2

 /00/40 = 87.5-104 MHz
 /01/45/60 = 87.5-108 MHz



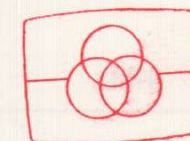


51	4822 426 40156
52	4822 410 22116
53	4822 426 50329
54	4822 450 80611
56	4822 321 30214
57	4822 276 10714
58	4822 410 22115
59	4822 278 90376
61	4822 276 10713
62	4822 532 30328
63	4822 413 50998
64	4822 413 50999
66	4822 426 90055
67	4822 256 90255
68	4822 411 60638
69	4822 411 60639
71	4822 277 20569

16422E14

M3x15

-TS-			-II-	
101	1502C (BF494)	4822 130 44195	118,126,129	Cer.cap. 10 nF ± 20 % 4822 122 30043
102,104	1502D (BF494)	4822 130 44195	120,122,	Cer.cap. 20 nF ± 20 % 4822 122 30103
103,105	1502E (BF494)	4822 130 44195	125,127	Cer.cap. 20 nF ± 20 % 4822 122 30103
106,201	1602D (BC558A)	4822 130 40962	123	Cer.cap. 2 pF ± 1/4 pF 4822 122 31277
107	1402E (BC548C)	4822 130 44196	130÷133,140	Cer.cap. 20 nF ± 20 % 4822 122 30103
108	1702M (BC338)	4822 130 44121	141,151÷154	Cer.cap. 10 nF ± 20 % 4822 122 30043
109	1802M (BC328)	4822 130 44104	206÷208	Cer.cap. 10 nF ± 20 % 4822 122 30043
IC201	MM5420 (clock-IC)	4822 209 80482	210,211,213	Cer.cap. 10 nF ± 20 % 4822 122 30043
-D-			-S-	
101,108	CDG00 (BA216)	4822 130 30702	101	FM-IFT (orange) 4822 156 40652
102	IN60 (AA119)	4822 130 31012	102	FM-IFT (green) 4822 156 30665
103÷105,109	CDG24 (BA216)	4822 130 30702	103	FM-det. (pink) 4822 156 30661
106,107	2-IN60 (2-AA119)	4822 130 30312	104	FM-det. (blue) 4822 156 30662
110 ÷ 113	IN4001 (BY188B)	4822 130 30829	105	AM-IFT (yellow) 4822 156 30663
201	IN4001 (BY188B)	4822 130 30829	106	AM-IFT (black) 4822 156 30664
206	IN4148	4822 130 30621	L106	AM-MW ant. coil 4822 157 50942
			L107	AM-osc. coil 4822 156 40688
-C-			-Miscellaneous-	
VC1	Varco	4822 125 20217		
101	Cer.cap. 50 pF ± 5 %	4822 122 31276	VL-1	Ferrite bar 10x80 4822 526 10129
102	Cer.cap. 25 pF ± 5 %	4822 122 31278	R150	Fuse 200 mA slow 4822 253 30012
105,107	Cer.cap. 20 nF ± 20 %	4822 122 30103		Potm.vol. 10 kΩ 4822 101 30379
108,115	Cer.cap. 20 pF ± 5 %	4822 122 40142		Loudspeaker 8 Ω 4822 240 30076
109	Cer.cap. 4 pF ± 1/4 pF	4822 122 31043		Power transformer 4822 146 30323
111	Cer.cap. 6 pF ± 1/4 pF	4822 122 31279		Power transformer -/60 4822 146 30325
112	Cer.cap. 30 pF ± 5 %	4822 122 40099		



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(GB)

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

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

(D)

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

(SF)

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

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

(S)

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

(DK)

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

(N)

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