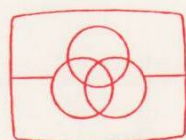


Clock-Radio 90AS390/00/15/40/50/51/65/90

Service
Service
Service



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Service Manual

REPEAT ALARM/SLUMBER OFF
PAUSE ALARME/ARRET SEMI-VEILLE

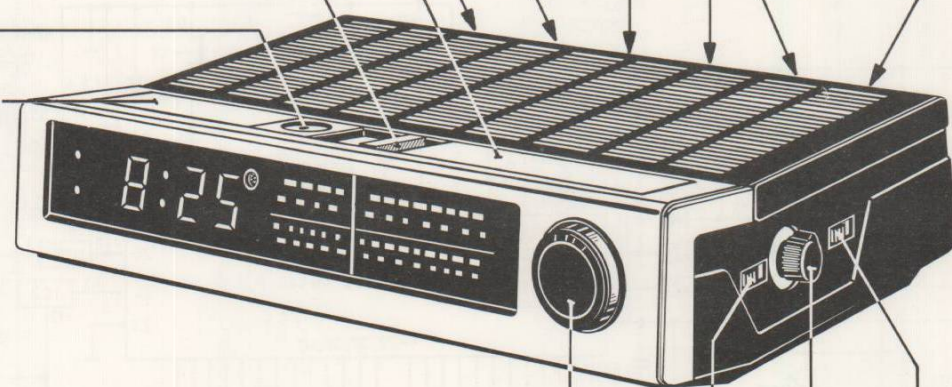
(SK-E) TIME L'HEURE ALARME

ALARM BUZZER/RADIO
ALARME SONNERIE/RADIO

SK-D

SK-C
ALARM ALARME

SK-G
SLUMBER SEMI-VEILLE
ALARM OFF ARRET ALARME



VC-1

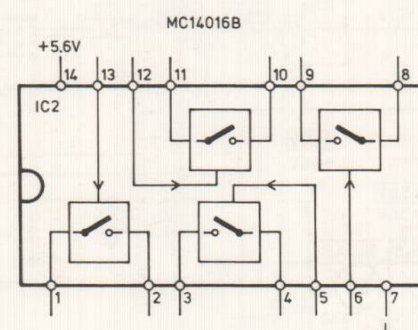
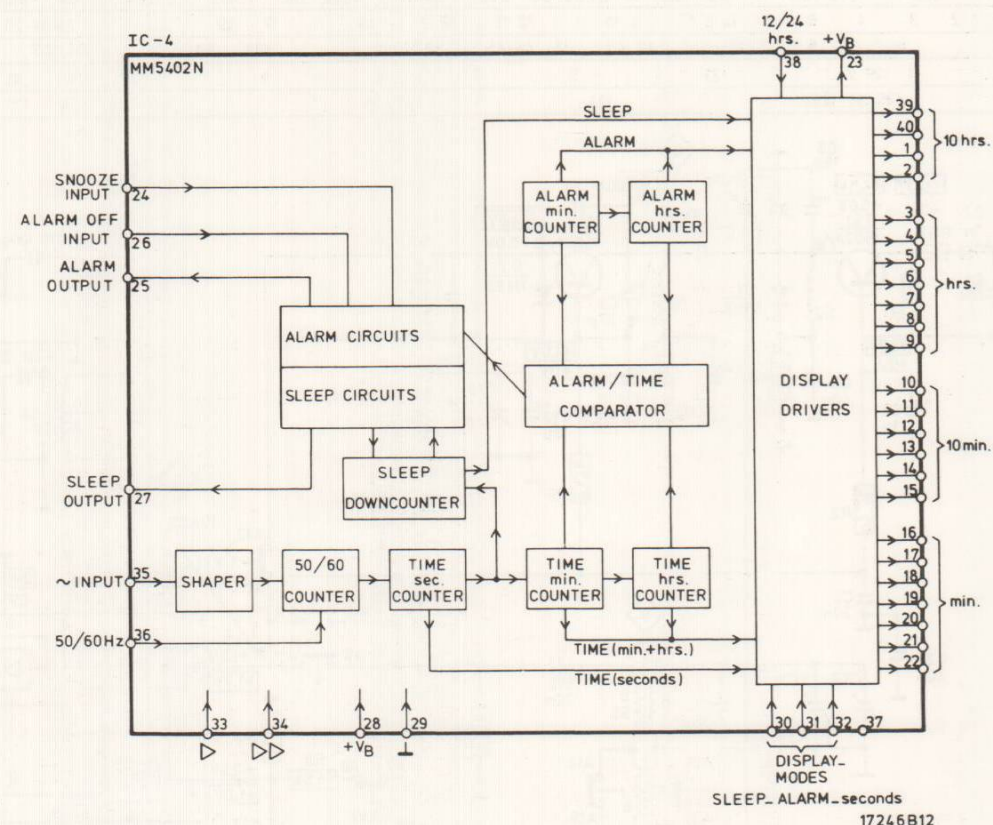
SK-B
RADIO

R38

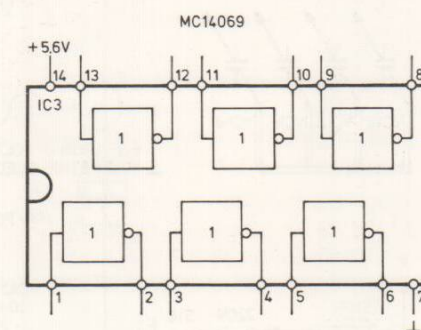
SK-A
FM/MW/LW
FM/PO/GO

17276A12

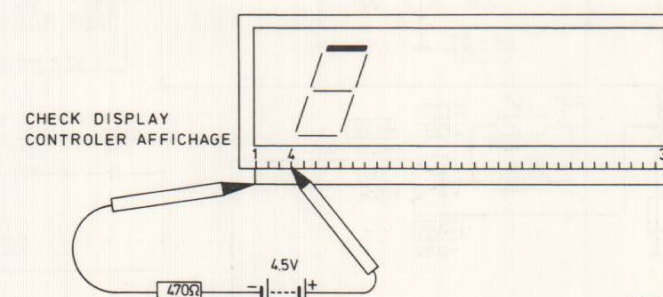
LW/GO : 150-255 kHz (2000-1176 m)
MW/PO : 520-1605 kHz (577-187 m)
FM : 87.5-104 MHz
IF/FI-AM : 468 kHz
IF/FI-FM : 10.7 MHz
Mains/Secteur : 110/120 V~ /50 Hz/9 V
(Batt/pile)
Output/Sortie : 200 mW ± 1 dB (d = 10 %)



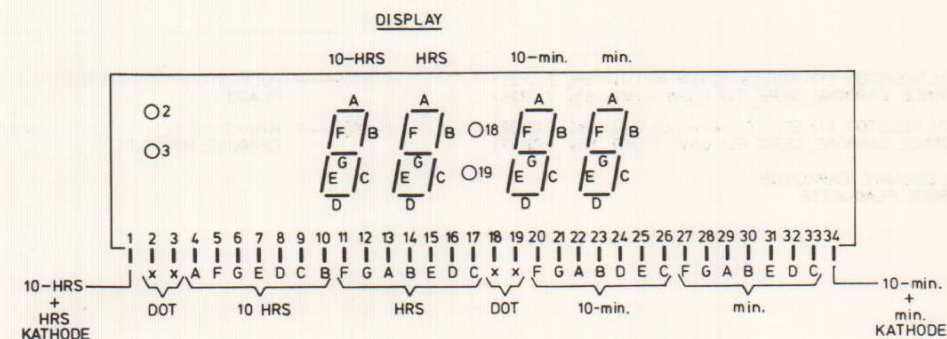
17177A12



17178A12

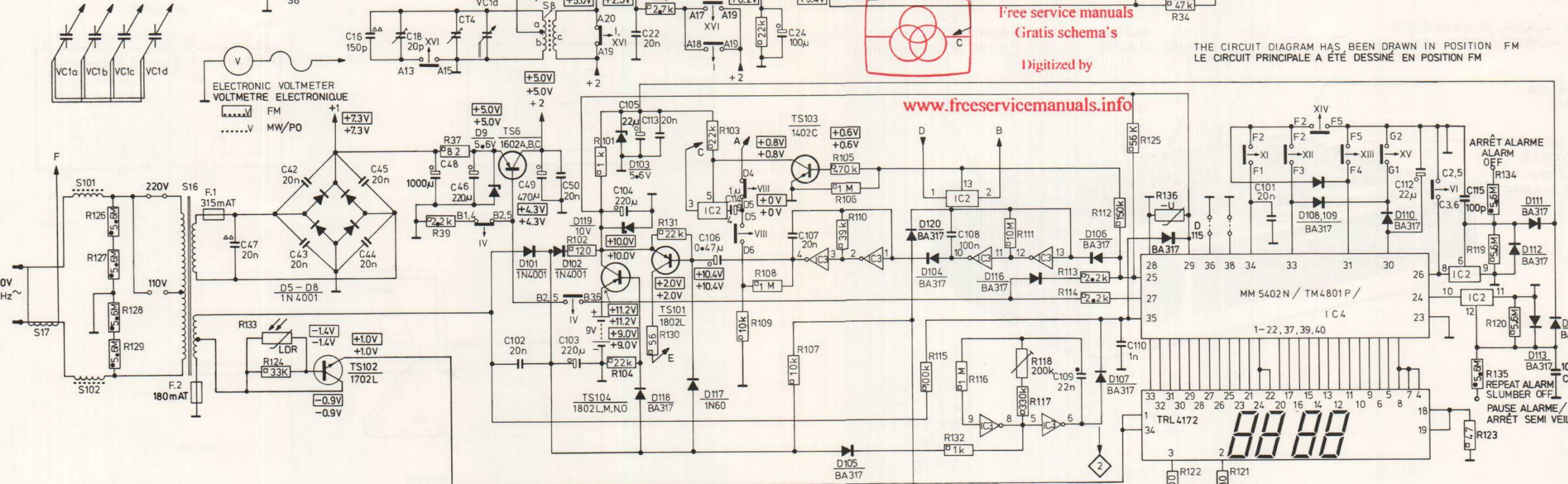


10371A12



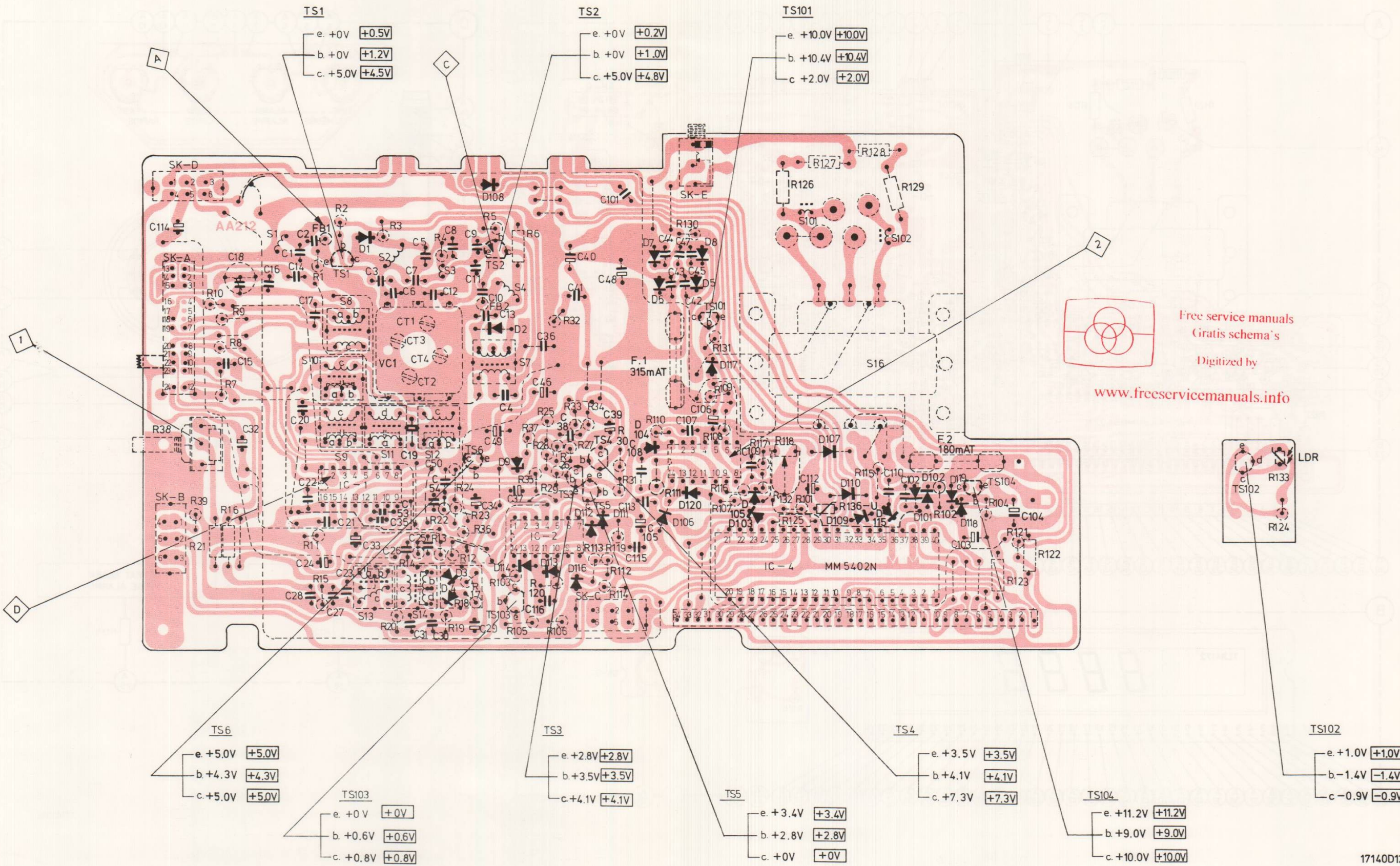
12258B12

The diagram illustrates a complex electronic circuit for a portable radio receiver. Key components include a power supply section with a 10nF capacitor and a 0.5V regulator, a tuning circuit with a 1502A transistor and a 1N60 diode, and a TBA570A audio amplifier. The circuit also features a 1702LMND motor and a 1802LMND motor. The diagram is annotated with various component values, pin numbers, and labels like 'XVI, I' and 'XVI, II'. A legend on the right side defines the labels: I = AM, II = FM, III = RADIO ON MARCHÉ, IV = RADIO OFF ARRÊT RADIO, V = ALARM ON MARCHÉ, VI = ALARM OFF ARRÊT ALARME, VII = ALARM B ALARME, VIII = ALARM E ALARME, XI = FAST/RADIO, XII = SLOW/LE, XIII = AL, XIV = TIM L'H, XV = SE, XVI = LG.

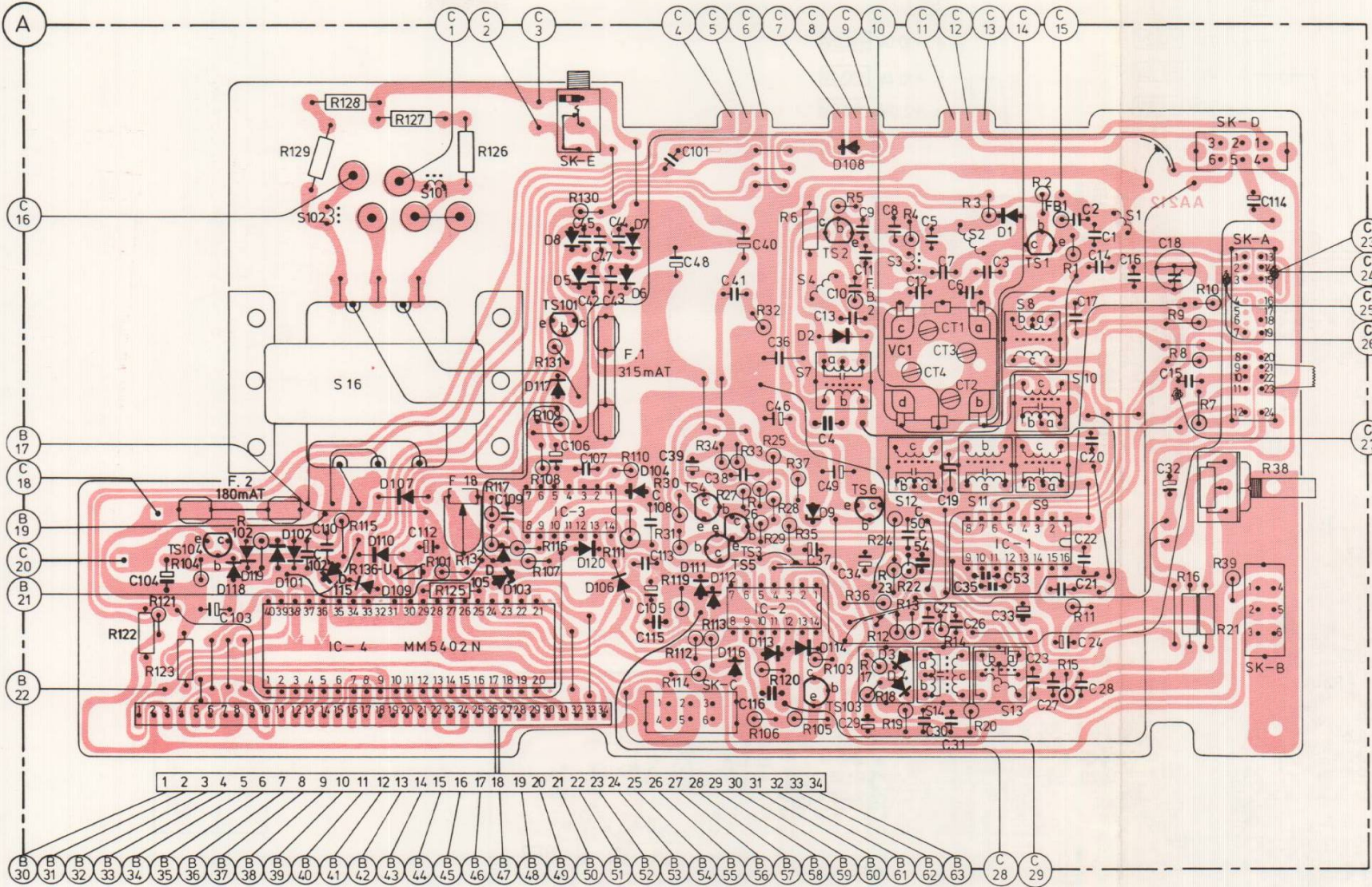


- | | | | |
|--|--|---|--|
|  | CARBON RESISTOR E12 SERIES 0.33W < 1MΩ 5% (CR25)
RESISTANCE CARBONE SERIE E12 0.33W < 1MΩ 5% (CR25) |  | POLYESTER CAPACITOR
PLACO |
|  | CARBON RESISTOR E12 SERIES 0.5W < 1MΩ 5% (CR37)
RESISTANCE CARBONE SERIE E12 0.5W 1MΩ 5% (CR37) |  | MINIATURE ELECTROLYTIC CAPACITOR
CHIMIQUE MINIATURE |
|  | PLATE CERAMIC CAPACITOR
CERAMIQUE PLAQUETTE | | |

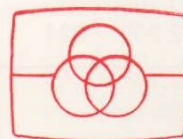
MISC	SK-D		S1	FB1		TS1IC1	D1	S11	S2	VC1	S14	S3D10	FB2D2	IC2	TS2	S4	D14	TS3	TS5	TS4	D104	D7D106	D8	SK-E		TS101	D105	S101	D107	D110	S16	S102	F2		TS102	SK-F								
	SK-A SK-B		S9		S10	S8	S13	S12	CT2,3,4		D4	D3	TS6	TS103	S7D9	D113	D116	D112	D111	SK-C		D6	F1D120	D5	IC3	D117D103	IC4	D109	D101		D115	D102	D119	D118	TS104	SK-G								
C	114		15	18	14	1	22	2	21	23	53	3	6	19	5	25	12	8	29	10	4	37	36	40	41	101	108	113	44	47	45	106	109	110	104									
			32	16	20	28	17	24	27	33	35	26	31	7	30	50	54	34	11	13	49	46	38	116	39	48	105	115	43	107	42	112	102	103										
R	38	10	9			1	2			3	14	13		4	24	17	5	103	6	37	28	25	32	26	33	34	113	119	30	110	130	131	109	116	117	126	101	127	136	128	129	104	122	133
	39		21	7	16	8	11		15	20		22		19	12	23	18	36	105	35	120	106	29	27	112	114	31	111	108	107	132	118	125	115	102		123	121	124					



MISC.	F.2 S102 S16 D110 D107 S101 D105 TS101SK-E D8 D106 D7 D104 TS4 TS5 TS3 IC2 D114 S4 TS2 FB2 D2 D108 S3 S14 VC1 S2 S11 D1 IC1 TS1 FB1 S1 SK-D S5 S17																														
	TS104 D118 D119 D102 D101 IC4 D109 D115 D103 D117 IC3 D5 D120 F1 D6 SK-C D11 D12 D116 D113 TS103 D9 TS103 S7 TS6 D3 D4 CT4 CT3 CT2 TS102 S3 S8 S10 S9 SK - G SK-A SK-B S6 SK-F S15																														
C	104		110										109 106 45 47 44 113 108 101 41 40 36 37 4 10 9 29 8 12 25 5 19 6 3 54 53 23 21 2 22 1 14 18 15 114																		
	103		102										112										42 107 43 115 105 48 39 38 46 116 49 13 11 34 50 30 7 31 26 35 33 27 24 17 28 20 16 32								
R	122 104		129 128		127 101 126 117		116 109 131 130		110 30 119 113 34 33 26 32 25 28 37 6 103 5 17 24 4 13 133 14 3 2 1 9 10 38																						
	121 123		102 115		136 125 118 132		107 108		111 31 114 112 27 29 106 120 35 105 36 18 23 12 19 124 22 20 15 11 8 16 7 21 39 134 135																						



SK.....						
MW (520 - 1605 KHz)	468 KHz [3]	D	MAX.		S12, S11	1 MAX
	512 KHz		MAX.		S8	
	1635 KHz		MIN.		CT4	1 MAX.
	550 KHz	B			S5	
	1500 KHz				CT2	
LW (150 - 255 KHz)	147 KHz	B	MAX.		C18	1 MAX.
	155 KHz				S6	
FM (87.5 - 104 MHz)	10.7 MHz	C			S14	1 MAX
					S14	1 MIN
	86.5 MHz		MAX.		S4	
	105 MHz	A	MIN.		CT3	1 MAX.
	88 MHz				S2	
	103 MHz				CT1	
CLOCK FREQUENCY (50 / 60 Hz)	[4]				R118	2 [5]

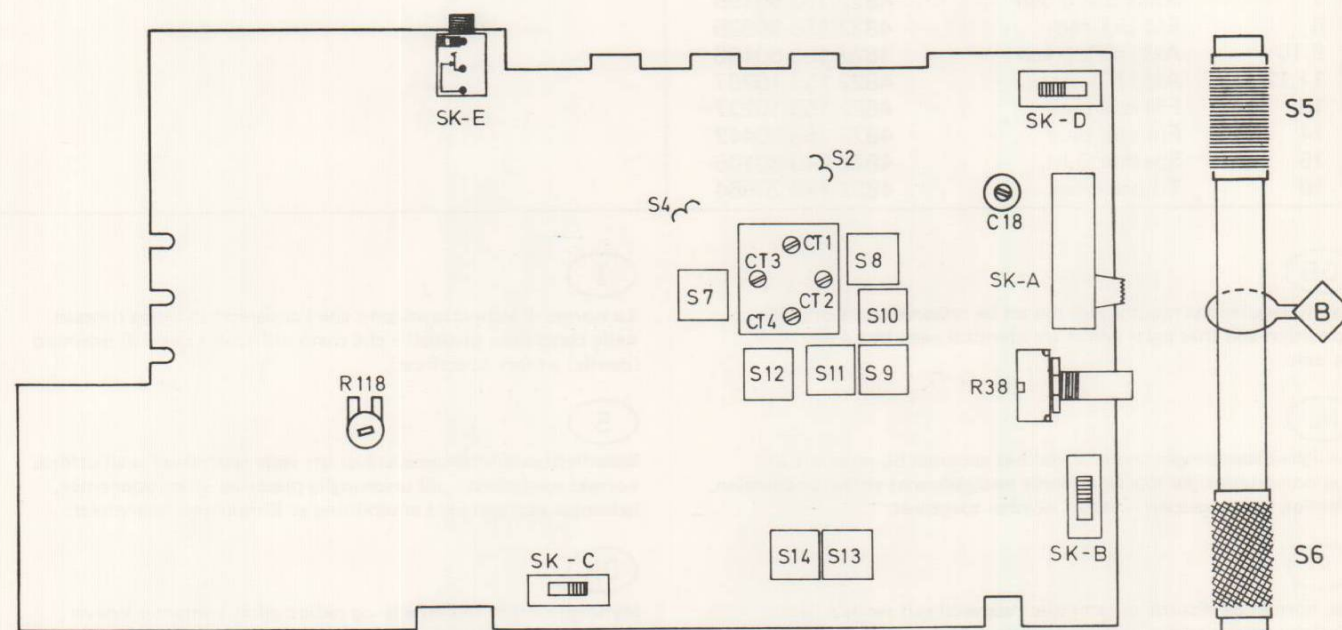


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17180B12



17179B12

(GB)

- [3] Signal injected via 10 nF capacitor.
[4] 1. No mains supply from power transformer.
2. DC supply from MBB 9 V battery.
[5] Adjust to line frequency (50 or 60 Hz as specified)

(F)

- [3] Injecter un signal à travers un condensateur de 10 nF.
[4] 1. Ne pas appliquer de tension d'alimentation du transformateur secteur.
2. Appliquer la tension DC de la pile 9 V MBB.
[5] Aligner pour l'obtention de la fréquence ligne (50 ou 60 Hz selon spécification)

(I)

- [3] Iniettare un segnale tramite un condensatore di 10 nF.
[4] 1. Non applicare di tensione di alimentazione dal trasformatore rete.
2. Applicare la tensione DC dalla batteria 9 V MBB.
[5] Regolare fino ad attenuare la frequenza linea (50 o 60 Hz a secondo della specificazione).

(NL)

- [3] Signaal injecteren via een 10 nF condensator.
[4] 1. Geen voeding van nettransformator.
2. Gelijkspanning van een MBB 9 V batterij.
[5] Afregelen op netfrequentie (50 of 60 Hz zoals gespecificeerd).

(D)

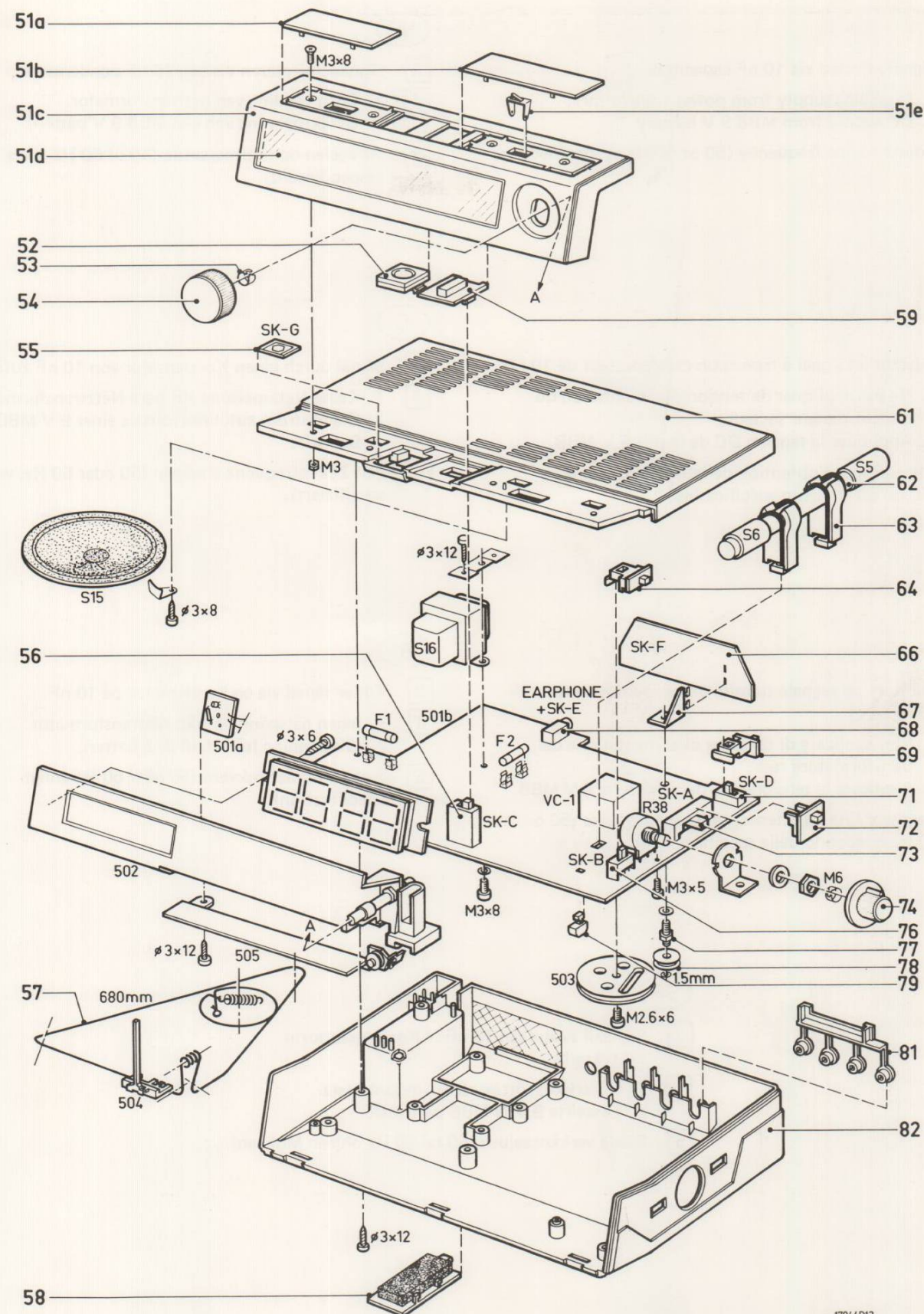
- [3] Signal durch einen Kondensator von 10 nF zuführen.
[4] 1. Keine Netzspeisung auf dem Netztransformator.
2. Gleichstrom zuführen mittels einer 9 V MBB Batterie.
[5] Auf Zeilenfrequenz abregeln (50 oder 60 Hz, wie spezifiziert).

(S)

- [3] Tillfer signal via en kondensator på 10 nF.
[4] 1. Ingen nätspänning från nättransformator.
2. Likspänning från MBB 9 V Batteri.
[5] Justera till nätfrekvens (50 eller 60 Hz enligt Specifikation).

(SF)

- [3] Signaali syötetään 10 nF:N Kondensaattorin välityksellä.
[4] 1. Ei verkkosyöttää verkkomuuntajasta.
2. Tasavirta 9 V:N MBB paristosta.
[5] Säädä verkkotaajuus (50 tai 60 Hz ohjeen Mukaan).



51a÷e	4822 426 50343	61	4822 426 40163	73	4822 277 20577
51a÷e	4822 426 50375 /28	62	4822 526 10123	74	4822 413 40833
52	4822 410 22186	63	4822 256 90267	76	4822 277 20576
53	4822 492 61974	64	4822 410 22183	77	4822 535 70581
54	4822 413 40834	66	4822 214 50198	78	4822 528 80749
55	4822 214 50199	67	4822 404 20285	79	4822 528 80733
56	4822 277 20575	68	4822 267 30321	81	4822 410 22181
57	4822 321 30214	69	4822 410 22182	82	4822 435 60023
58	4822 426 60143	71	4822 277 20578		
59	4822 410 22185	72	4822 410 22184		

17044D12

-TS-					
1,2	1502A (BF495)	4822 130 40947			
3	1402B (BC548B)	4822 130 40937			
4,5	1702/1802 (BC328/338)	4822 130 40942			
6	1602A (BC558)	4822 130 40941			
101	1802L (BC328)	4822 130 44104			
102	1702L (BC338)	4822 130 44121			
103	1402A (BC548A)	4822 130 40948			
104	1802L (BC328)	4822 130 44104			
-D-					
1,2; 3,4	2-1N60 (2-AA119)	4822 130 30312			
5÷8	1N4001 (BY188B)	4822 130 30829			
9	BZX79C5V6	4822 130 34173			
101,102	1N4001 (BY188B)	4822 130 30829			
103	BZX79C5V6	4822 130 34173			
104÷116	BA317	4822 130 30847			
117	1N60 (AA119)	4822 130 31012			
118	BA317	4822 130 30847			
119	Zener 10 V	4822 130 34297			
120	BA317	4822 130 30847			
-IC-					
1	TBA570A	4822 209 80358			
2	MC14016B	5322 209 14119			
3	MC14069	5322 209 10033			
4	MM5402	4822 209 10024			
-S-					
5	MW ANT. coil	4822 156 30612			
6	LW ANT. coil	4822 158 60425			
7	AM OSC. green	4822 153 50198			
8	FM IFT red	4822 156 30525			
9,10	AM OSC. green	4822 153 50198			
11,12	AM IFT white	4822 153 10287			
13	FM coil pink	4822 153 10237			
14	FM coil blue	4822 156 30442			
15	Speaker 3 In.	4822 240 30106			
16	Transformer	4822 146 20564			
-C-					
VC1a,b,c,d	Varco	4822 125 20221			
4	0.02 µF +80 -20 %	4822 122 30103			
5	0.04 µF +80 -20 %	4822 122 31152			
7	4 pF +0.25 pF	4822 122 31043			
11	3 pF +0.25 pF	4822 122 31223			
13	0.04 µF +80 -20 %	4822 122 31152			
14	36 pF +5 %	4822 122 40107			
15	0.02 µF +80 -20 %	4822 122 30103			
17	0.1 µF +80 -20 %	5322 122 30108			
18	Trimmer 20 pF	4822 125 50045			
20	22 pF +5 %	4822 122 31063			
21÷23,25	0.02 µF +80 -20 %	4822 122 30103			
36	0.04 µF +80 -20 %	4822 122 31152			
38	240 pF +5 %	4822 122 40161			
41	0.04 µF +80 -20 %	4822 122 31152			
42÷45	0.02 µF +80 -20 %	4822 122 30103			
47,50					
53	0.04 µF +80 -20 %	4822 122 31152			
101,102,107	0.02 µF +80 -20 %	4822 122 30103			
108	0.1 µF +80 -20 %	5322 122 30108			
113	0.02 µF +80 -20 %	4822 122 30103			
-R-					
38	Potm. volume 100 K	4822 101 30384			
118	Trimmer 200 K	4822 101 10241			
133	L.D.R.	4822 116 10019			
136	V.D.R.	4822 116 21042			
-Miscellaneous-					
F1	Fuse 315 mA (T)	4822 253 30014			
F2	Fuse 180 mA (T)	4822 253 30011			
35	TLR4172 Display	4822 130 31009			

(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.

(SF)

Korjattessa laitetta on turvallisuuksista ehdottomasti eneteltävä oikein ja käytettävä tehtaan määäämiä 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 av 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.