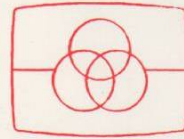


Clock radio 90 AS 290/00/40/45/60

Service
Service
Service

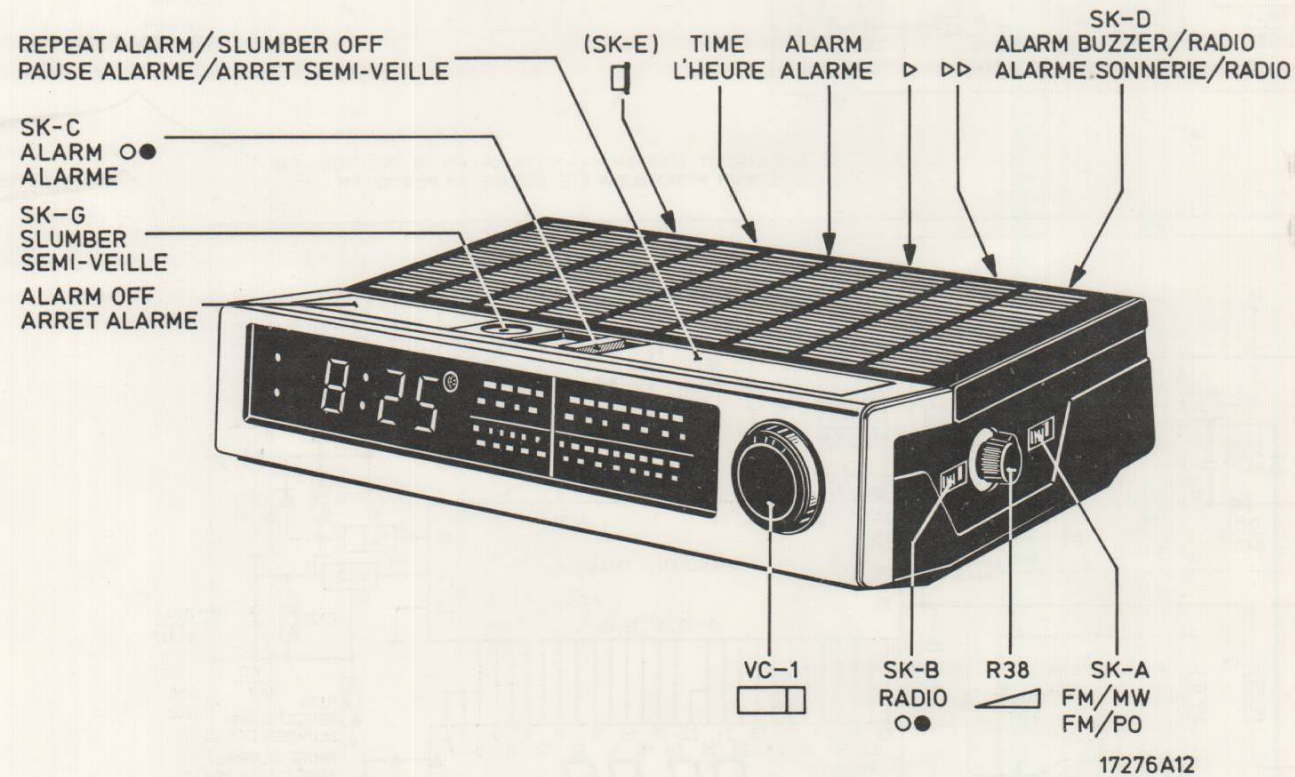


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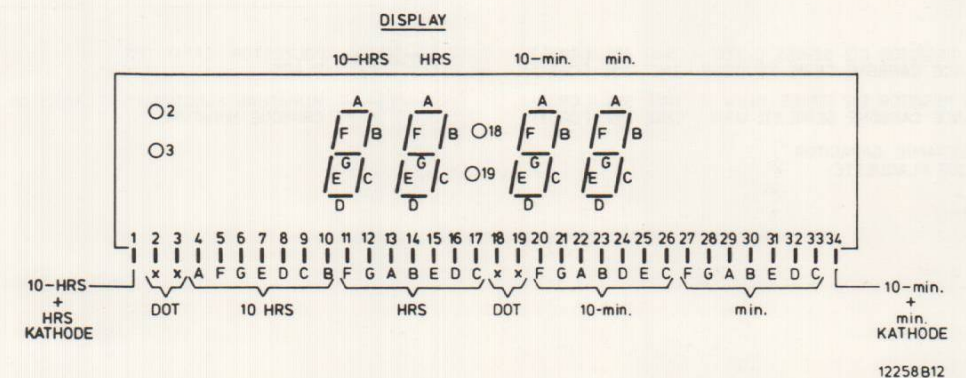
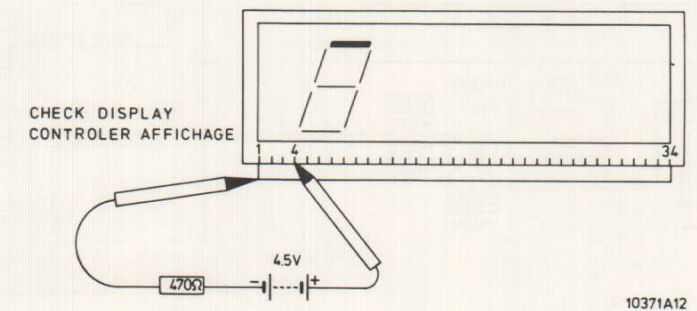
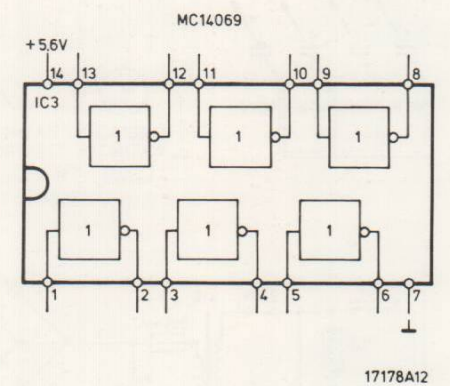
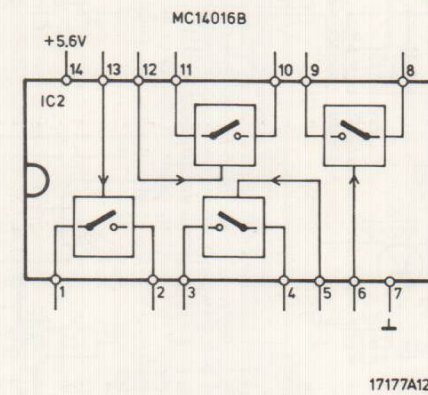
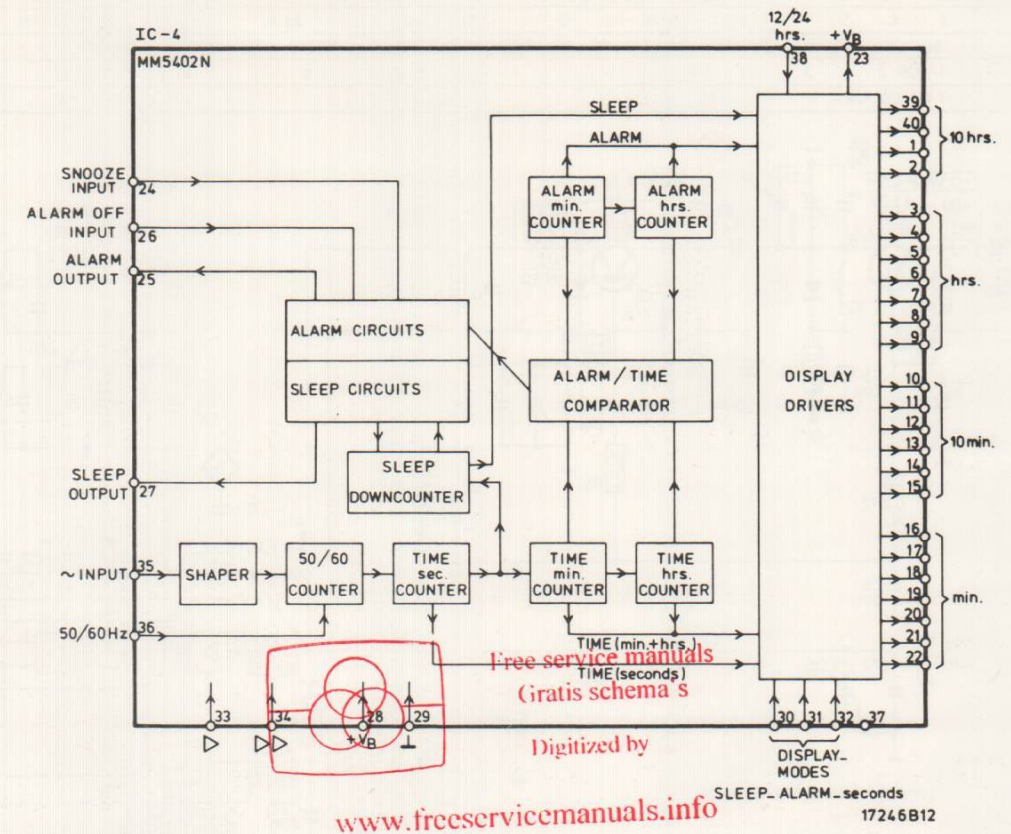
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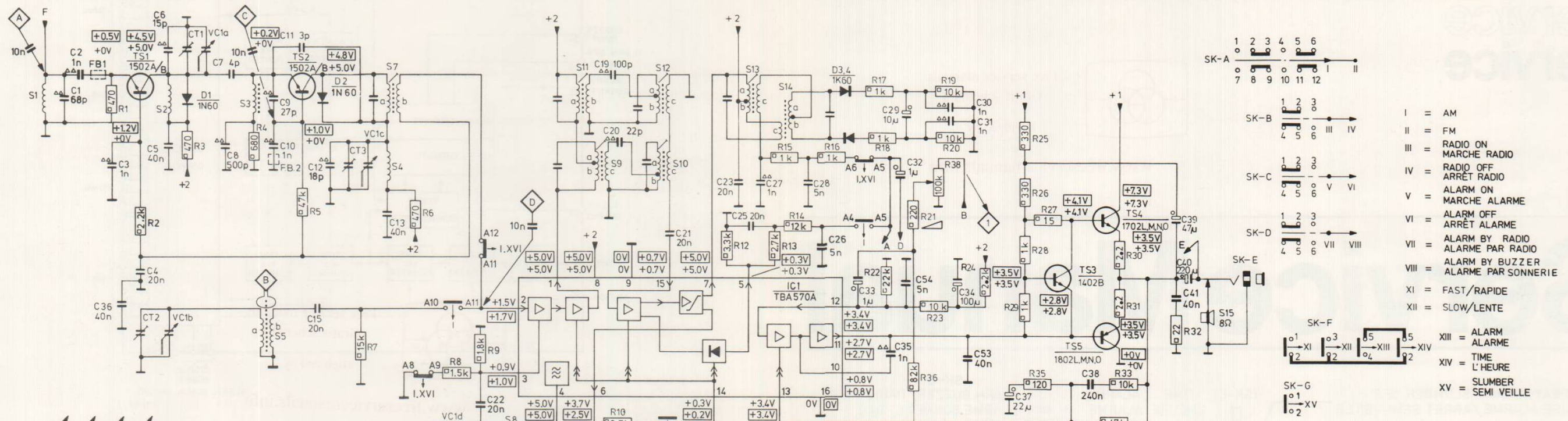
Service Manual



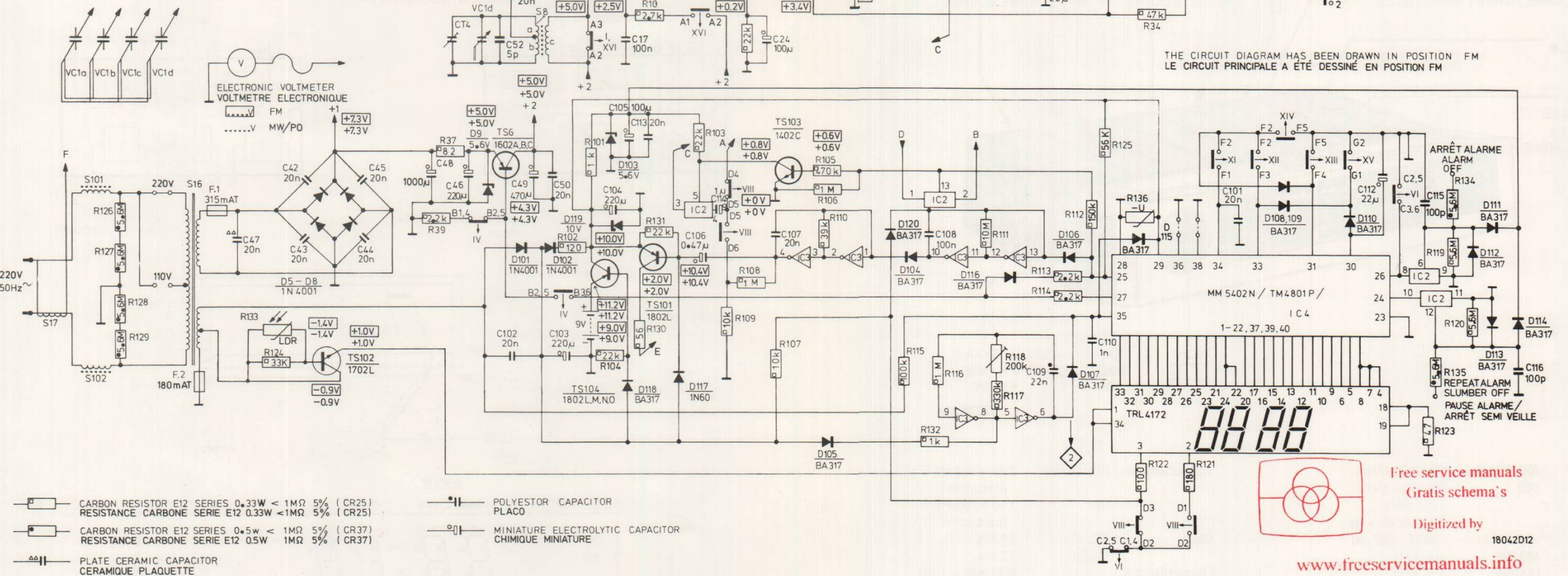
FM	: /00/45/60	88 - 108 MHz	Mains/Secteur : /00/40/45	220 V/50 Hz/9 V (batt./pile)
FM	: /40	88 - 104 MHz		110 V/60 Hz/9 V (batt./pile)
IF-FM	:	10,7 MHz	/60	
MW-PO	:	520 - 1605 kHz (577 - 187 m)	Clock : /00/40 /45/60	24 hrs 12 hrs
IF-AM	: /00/40	468 kHz	Output/Sortie :	200 mW ± 1 dB (d = 10 %)
IF-AM	: /45/60	455 kHz		



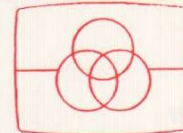
MISC.	S1	FB1		S101	F2	S1	S2	S15	D1	CT1	F1	S3	S5	TS2	D2	VC1c	S4	CT4	TS6	S8	S9	D103	S11	D119	D17	S10	S12	IC1	S13	S14	D3	D104	D116	D106	TS3	TS4	D115	D108	IC4	D110	D112	D111	
	S17	S102	CT2	VC1b	VC1a	TS102	FB2	D5-D8	CT3	S7	VC1d	D9	D101	D102	TS04	TS101	D118	TS102	TS103	D105	D4	D120	D107	TS5	D109	S15	D113	D114															
C	1	2	3	4	5	8	7	9	10	11	12	13	46	22	49	17	19	20	113	21	23	25	28	26	33	29	30	32	37	38	39	40											
	36		6		47	42	43	15	44	45	48	51	52	102	50	103	104	105	106	114	24	107	27	35	108	54	31	34	53	109	110	111	41	101									
R	1	129	2	3	133	4	5	7	6	9	101	130	10	103	12	13	14	105	16	17	18	21	132	23	19	117	24	25	113	114	112	136	33	30	121	32	123	134	119				
	126				127	128	124				37		39	102	104	131	109	11	108	107	15	106	110	115	22	116	36	20	111	118	38	28	29	26	27	35	125	122	34	31	135	120	



THE CIRCUIT DIAGRAM HAS BEEN DRAWN IN POSITION FM
LE CIRCUIT PRINCIPALE A ÉTÉ DESSINÉ EN POSITION FM



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



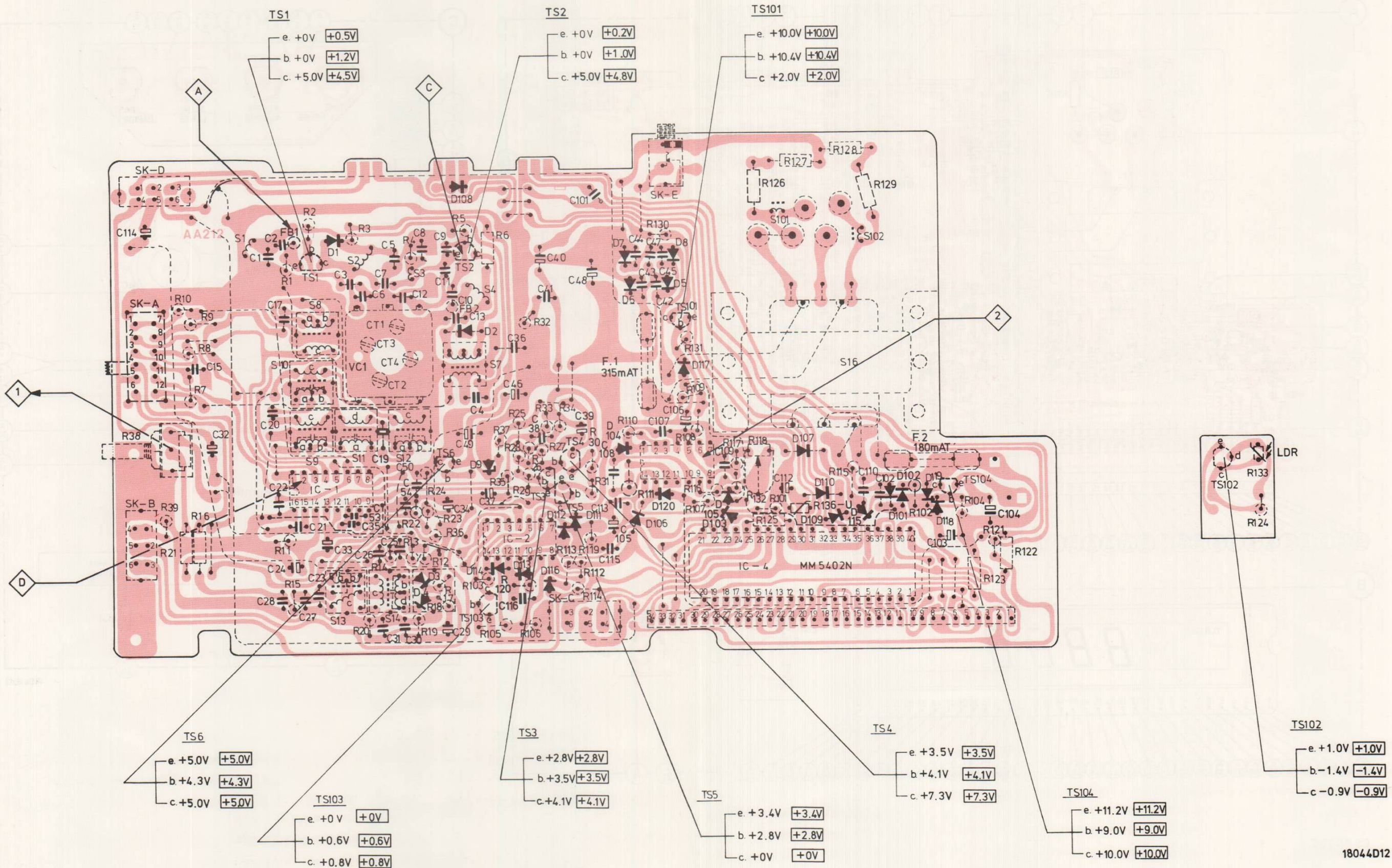
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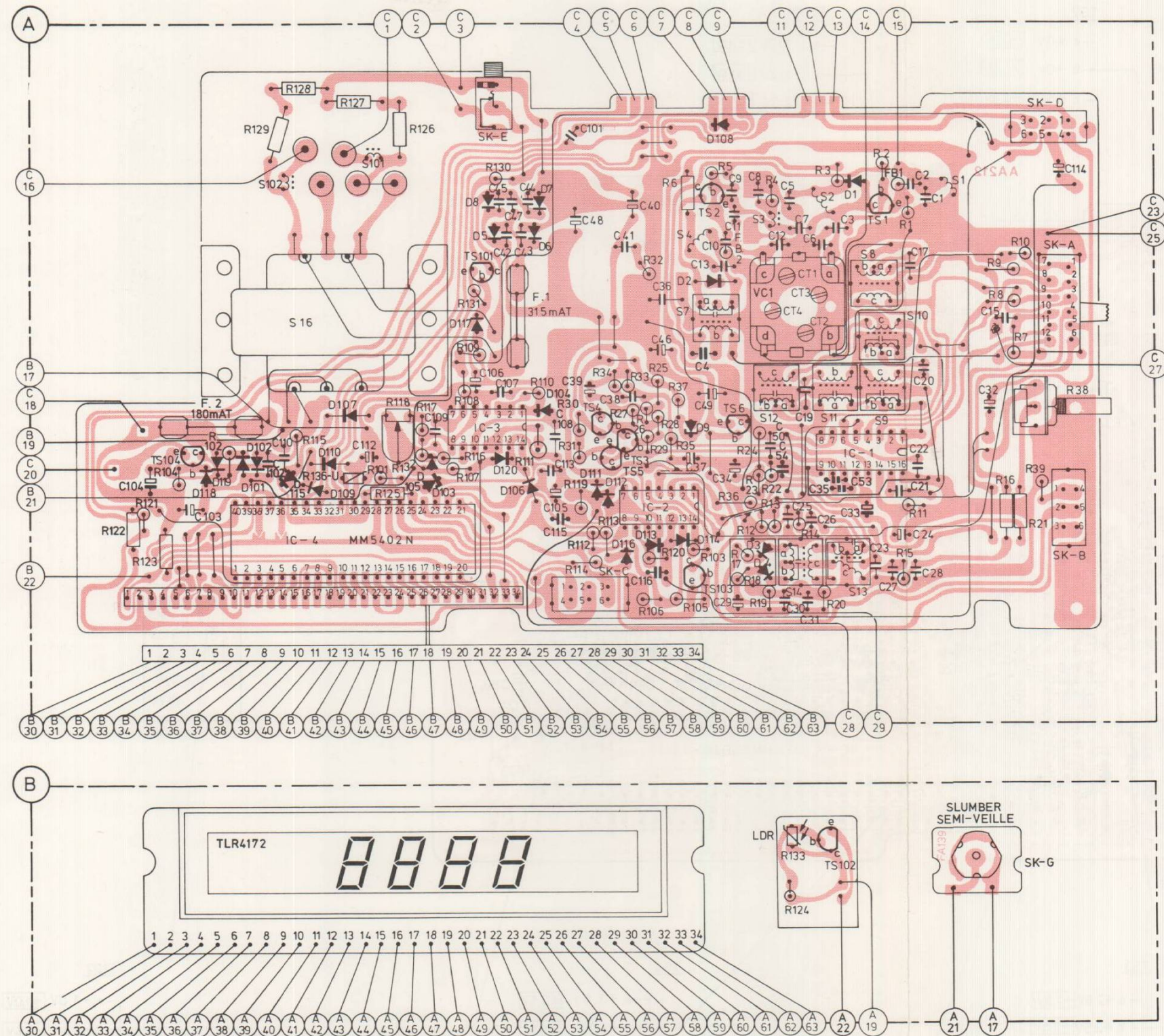
18042D12

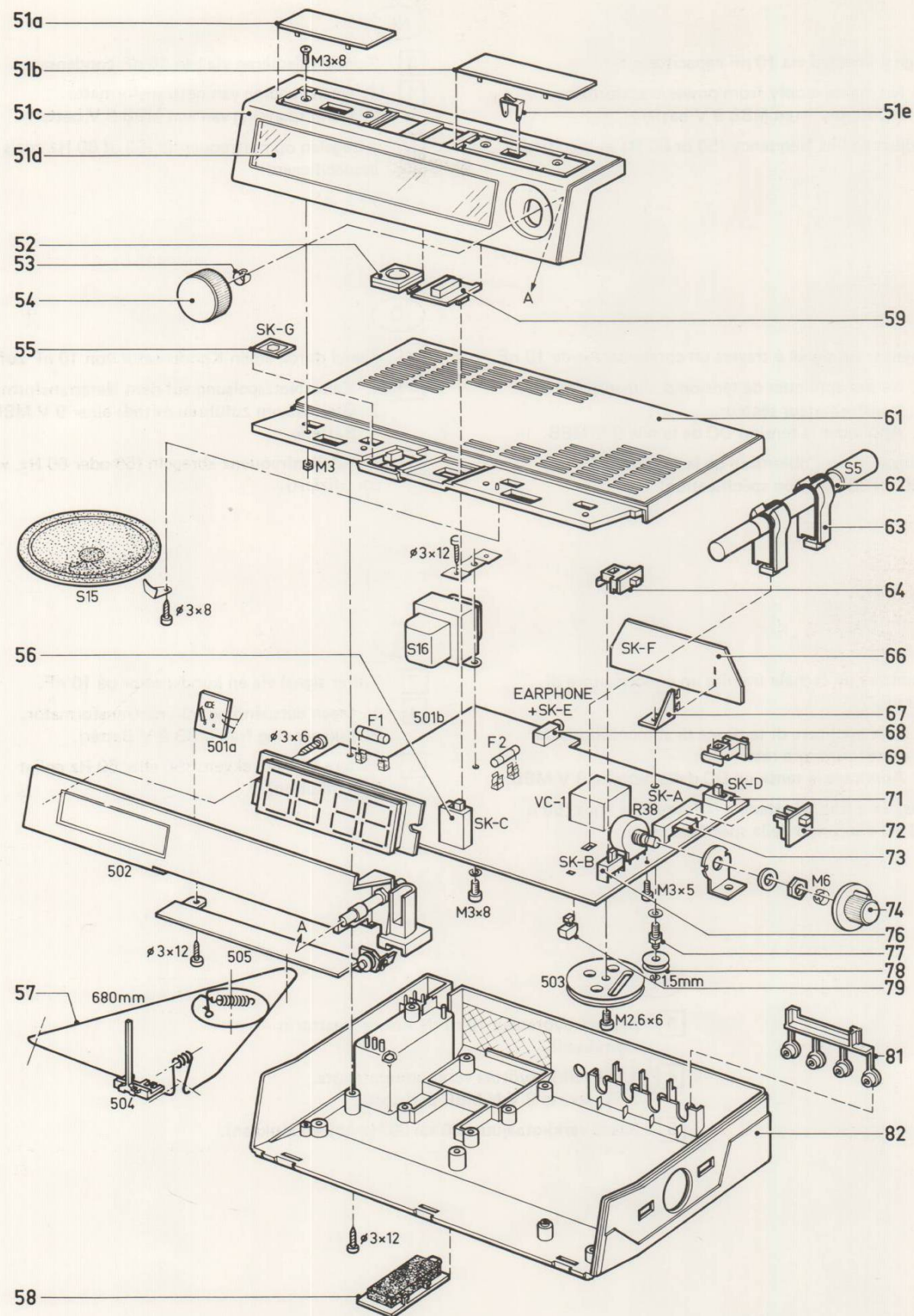
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MISC	SK-D		S1	FB1		TS1	IC1	D1	S11	S2	VC1	S14	S3	D108	FB2	D2	IC2	TS2	S4	D114	TS3	TS5	TS4	D104	D7	D106	D8	SK-E	TS101	D105	S101	D107	D110	S16	S102	F.2	TS102	SK-F				
	SK-A SK-B		S9	S10	S8	S13	S12	CT2,3,4		D4	D3	TS6	TS103	S7	D9	D113	D116	D112	D111	SK-G	D6	F1	D20	D5	IC3	D117	D103	IC4	D109	D101			D115	D102	D119	D118	TS104	SK-G				
	114		15	1		22	2	21	23	53	3	6	19	5	25	12	8	29	9	10	4	37	36	40	41	101	108	113	44	47	45	106	109	110			104					
C	32		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	D100	F1	D6	SK-C	D111	D12	D116	D13	TS103	D9	TS103	S7	TS6	D3	D4	CT4	CT3	CT2	TS102	S3	S8	S10	S9	SK-G	SK-A	SK-B	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	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	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





51a-e	4822 426 50347	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	36	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 426 90057
58	4822 426 60143	71	4822 277 20578		
59	4822 410 22185	72	4822 411 60657		
61	4822 426 40163	73	4822 277 20581		

-TS-			-C-		
1,2	1502 A (BF495)	4822 130 40947	VC1a,b,c,d	Varco	4822 125 20221
3	1402B (BC548B)	4822 130 40937	4	0.02 μF +80 -20%	4822 122 30103
4,5	1702/1802		5	0.04 μF +80 -20%	4822 122 31152
	(BC328/338)	4822 130 40942	7	4 pF +0.25 pF	4822 122 31043
6	1602A (BC558)	4822 130 40941	11	3 pF +0.25 pF	4822 122 31223
101	1802L (BC328)	4822 130 44104	13	0.04 μF +80 -20%	4822 122 31152
102	1702L (BC338)	4822 130 44121	15	0.02 μF +80 -20%	4822 122 30103
103	1402A (BC548A)	4822 130 40948	17	0.1 μF +80 -20%	5322 122 30108
104	1802L (BC328)	4822 130 44104	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		
			52	5 pF +0.25 pF	4822 122 40103
			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
-D-			-R-		
1,2; 3,4	2-1N60 (2-AA119)	4822 130 30312	38	Potm. volume 100 K	4822 101 30384
5÷8	1N4001 (BY188B)	4822 130 30829	118	Trimmer 200 K	4822 101 10241
9	BZX79C5V6	4822 130 34173	133	L.D.R.	4822 116 10019
101,102	1N4001 (BY188B)	4822 130 30829	136	V.D.R	4822 116 21042
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-			-Miscellaneous-		
1	TBA570A	4822 209 80358	F1	Fuse 315 mA (T)	4822 253 30014
2	MC14016B	5322 209 14119	F2	Fuse 180 mA (T)	4822 253 30011
3	MC14069	5322 209 10033	35	TLR4172 Display	4822 130 31009
4	MM5402	4822 209 10024			
-S-					
5	MW ANT. coil	4822 156 30612			
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			
16 /60	Transformer	4822 146 20568			

(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.

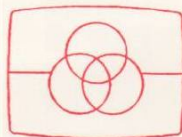
(S)

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

(SF)

Korjattessa laitetta on turvallisuussyistä ehdottomasti eneteltävä oikein ja käytettävä tehtaan määräämiä alkuperäisvaraosia.

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90 AS 290/..B

90 AS 390/..B

90 AS 490/..B

90 AS 590/..B

Service Manual

(GB)

For the B-versions it is true, that only the colour of the cabinet parts has been changed.
Except for the following code numbers, we refer to the base Service Manual.

(NL)

Voor de B-uitvoeringen geldt, dat alleen de kleur van de kastonderdelen veranderd is.
Met uitzondering van de volgende kodenummers verwijzen wij u naar de basis Service Manual.

(F)

La seule différence entre les versions B et l'appareil de base est la couleur des pièces constituant le coffret.
Pour les numéros de code il faut se reporter au Service Manual de base. Font exception les codes ci-après.

(D)

Für alle B-Ausführungen gilt, dass die Farbe des Gehäuseteiles geändert worden ist.
Mit Ausnahme folgender Änderungen verweisen wir Sie auf den Basis Service Manual.

(I)

La versione B-differisce da quella base soltanto per il colore delle parti del mobile.
Eccetto per i codici sotto riportati fare riferimento alla documentazione di basis.

90AS290/...B

Pos. 51	4822 426 50487	(Front panel)
Pos. 52	4822 410 22547	(Slumber knob assy)
Pos. 58	4822 426 60196	(Battery door)
Pos. 61	4822 426 40226	(Cabinet top)
Pos. 82	4822 435 60036	(Cabinet base assy)

90AS490/...B

Pos. 50	4822 426 40227	(Cabinet top assy)
Pos. 56	4822 256 60245	(Battery door)
Pos. 59	4822 413 30897	(Power on/off knob)
Pos. 67	4822 435 60037	(Bottom cabinet)
Pos. 71	4822 333 40267	(Scale)
Pos. 76	4822 276 10906	(Selector knob assy)
Pos. 77	4822 277 20686	(Switch comp. assy)
Pos. 78	4822 276 10808	(Radio on/off switch assy)

90AS390/...B

Pos. 51	4822 426 50504	(Front panel assy)
Pos. 52	4822 410 22547	(Slumber knob assy)
Pos. 58	4822 426 60196	(Battery door)
Pos. 59	4822 410 22546	(Knob alarm on/off assy)
Pos. 61	4822 426 40226	(Cabinet top assy)
Pos. 82	4822 435 60035	(Cabinet base assy)

90AS590/...B

Pos. 51	4822 426 64590	(Cabinet top assy)
Pos. 56	4822 256 60245	(Battery door)
Pos. 65	4822 426 40228	(Bottom cabinet)
Pos. 67	4822 333 40266	(Dial scale)
Pos. 72	4822 276 10906	(Selector knob assy)
Pos. 73	4822 277 20686	(Switch comp. assy)

Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Servicio



Subject to modification

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