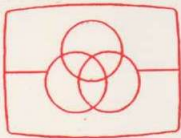


Clock-Radio D3210
/00/01/02/10/11/14/20

Service
Service
Service

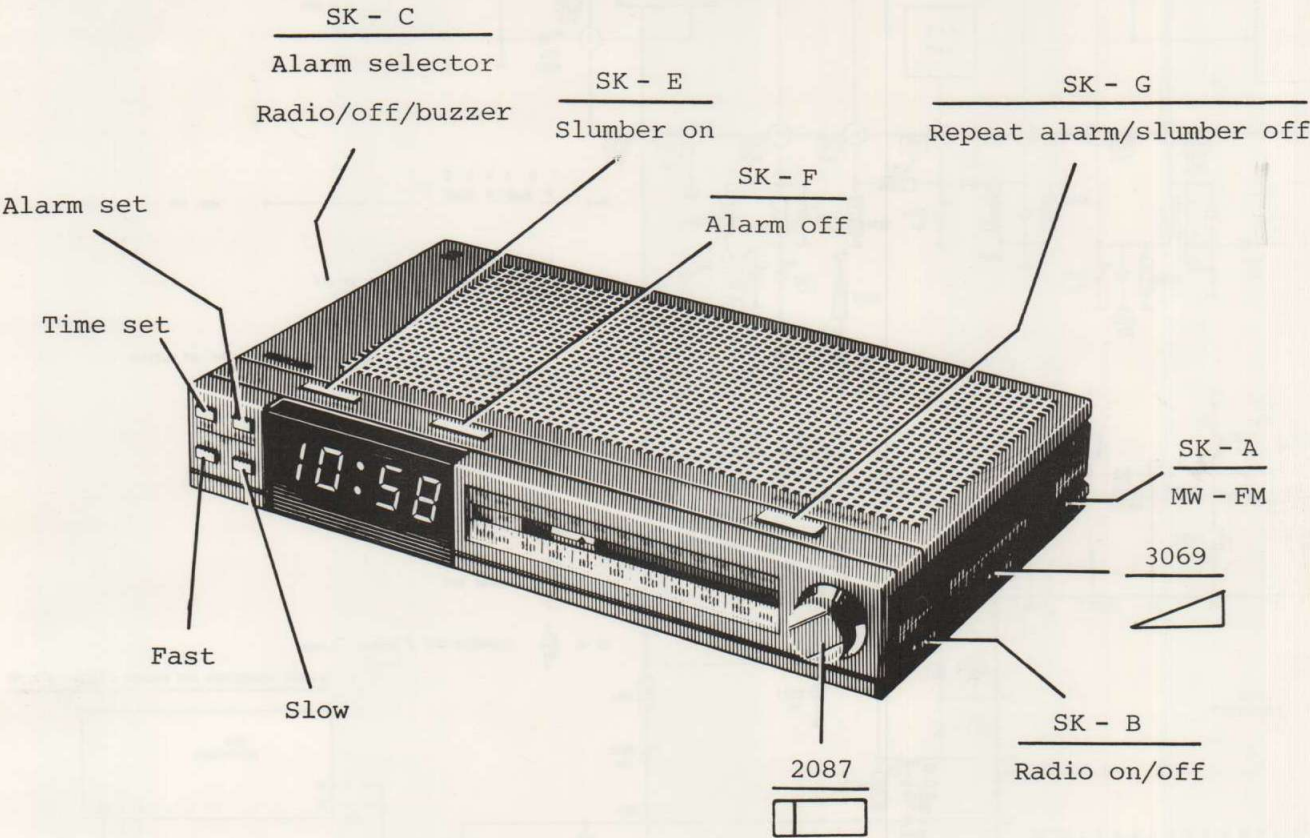


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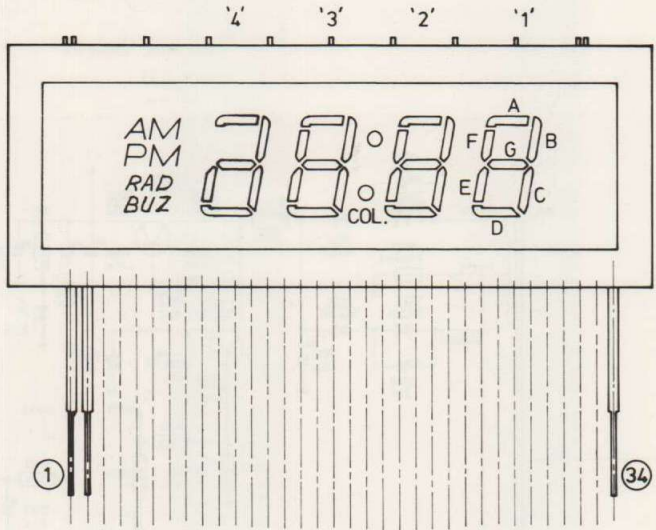
Service Manual



MW/PO : 520-1605KHz (577-187m)
FM : 87.5-108MHz
IF/FI AM : 468KHz
455KHz -/01/10/11/20
IF/FI FM : 10.7MHz
Clock : 24 Hr
12 Hr -/01/10/11/20

Mains/secteur : 220V 50Hz
240V 50Hz -/10
110V 60Hz -/20
Battery/pile : 9V dc
Output/sortie : 200mW ± 1dB
(d=10%)

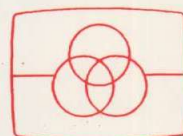
FTD DIAGRAM



PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
CONNECTION	f	BUZ	RAD	PM	g	A4 D4 G4	E4	AM	B4	C4	F3	G3	A3	B3	D3	COL	g	C3	E3	F2	G2	A2 D2	B2	E2	C2	F1	G1	A1	NP	B1	E1	C1	D1	f



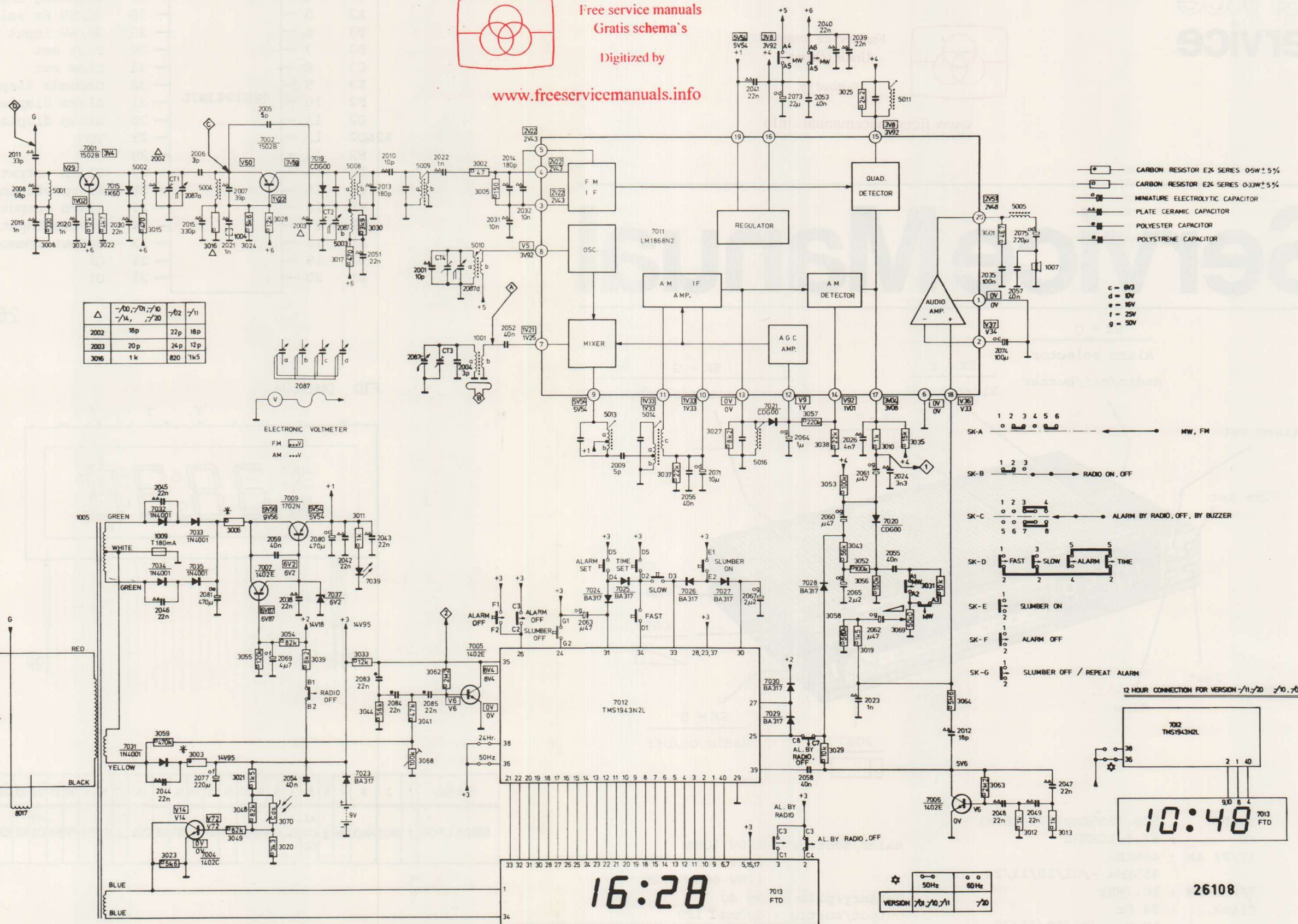
MISC.	5001	1005	7001	7015	5002	7032	7034	7033	5004	1004	7002	7037	5008	5009	7005	7024	7011	7026	7027	5016	7021	7028	5011	7006	5005								
	8017		1003		1009	7031	7035			7007	7009	7019	5003		1001	5013	7012	5014	7013	7030		7020			1007								
						7004						7023	7039		5010					7029													
C	2008	2020	2030	2045	2002	2006	2081	2021	2005	2038	2003	2042	2083	2010	2004	2052	2032	2009	7025	2056	2071	2041	2073	2058	2040	2039	2026	2062	2012	2035	2074	2049	2047
	2019			2046		2015	2077	2007	2059	2054	2087b	2051	2043	2085	2022	2031		2063			2067	2064	2053		2060	2061	2024		2062	2048	2057	2075	
	2011					2044	2087a			2069	2080		2013	2084	2087c	2001	2087d	2014								2065	2023	2056					
R	3008	3032	3022	3015	3059	3016	3049	3048	3028	3054	3017	3011	3086	3062	3002	3005			3037	3027				3057	3029	3058	3025	3019	3031	3064	3063	3012	3013
						3023	3003	3006	3024		3039		3033	3030	3041												3038	3043	3056	3069		3001	
							3021	3055	3070	3020			3044														3053	3052	3010	3035			



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1001

7013

10:48

SK-E

SK-F

SK-G

FM

MW

SK-A

SK-B

SK-C

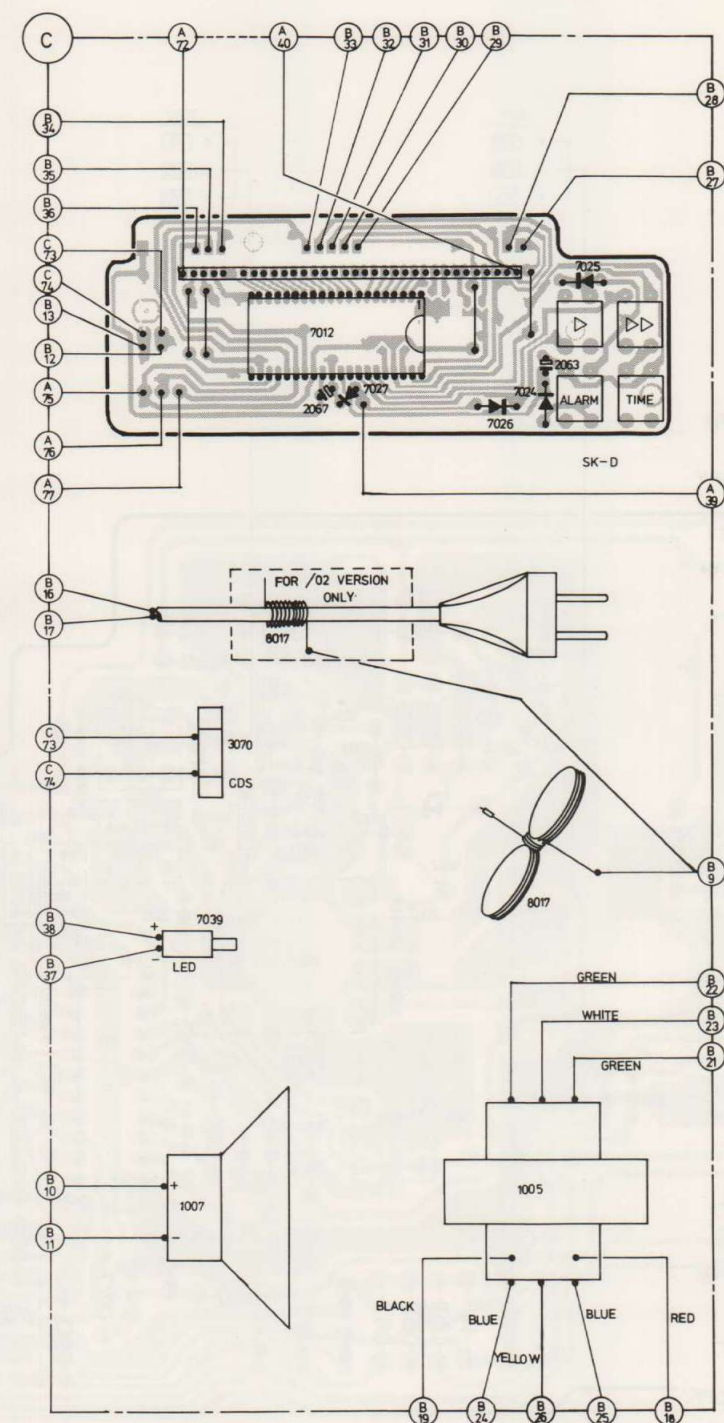
ALARM BY RADIO

ALARM OFF

ALARM BY BUZZER

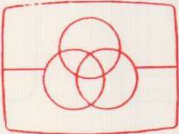
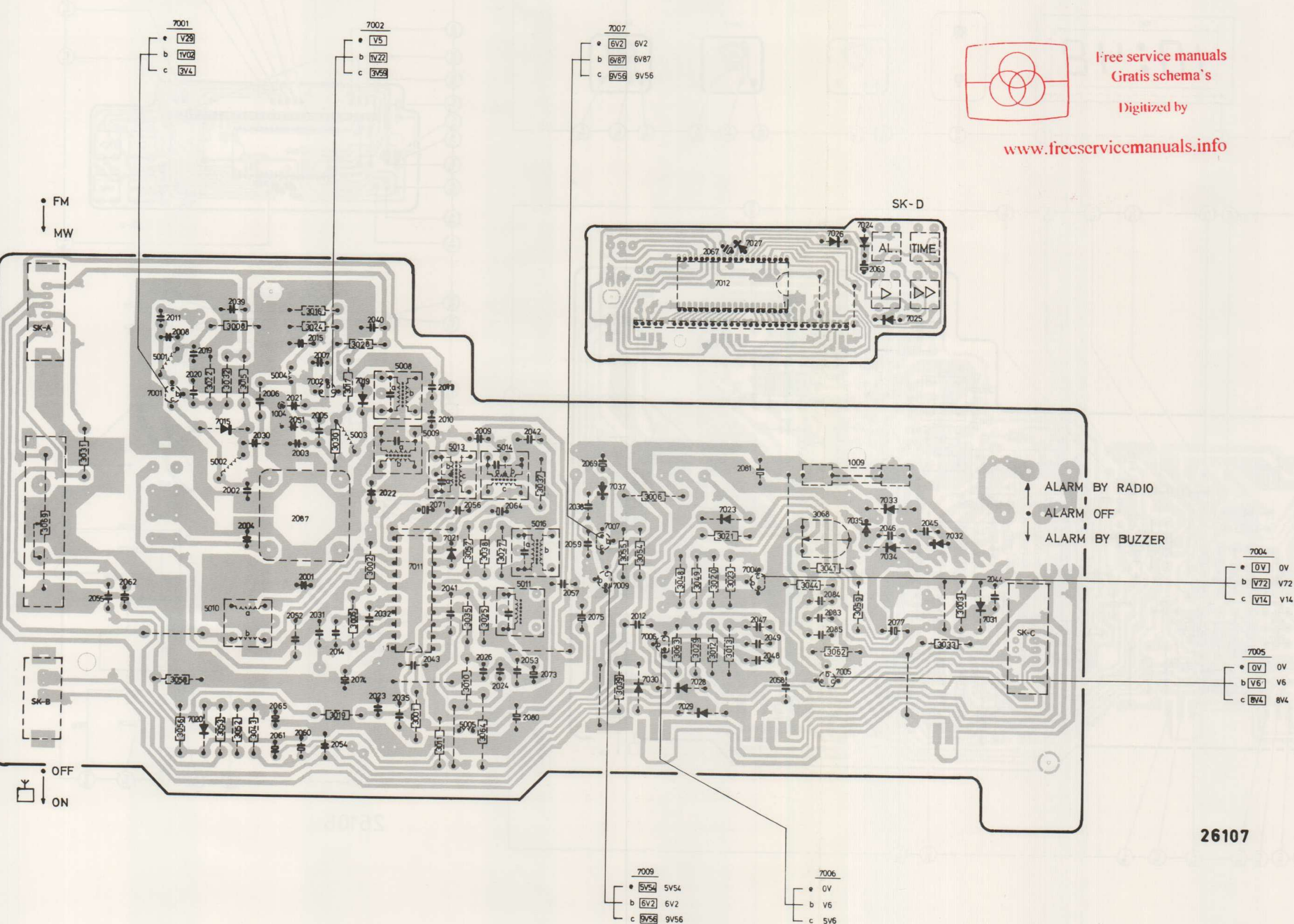
OFF

ON



26106

MISC	SK-A	7001	7020	7015	5010	5004	7002	5003	7019	5008	7011	5005	5014	5016	7013	7037	7030	7028	7029	7023	7004	7005	1009	7033	1001	7031		
	SK-B	5001	5002	1004				5009		5013		5011	7007	7006									7035	7034	SK-D	7032	SK-C	
C		2055	2062	2011	2002	2030	2065	2052	2051	2015	2014	2074	2022	2043	2013	2056	2009	2026	2042	2038	2069	2012	7012	7027	7026	7024	7025	
		2008	2019	2039	2061	2021	2001	2007	2054	2032	2035	2010	2041	2064	2053	2073	2057	2075				2067	2049	2083	2063	2077	2045	
		2020	2004	2006	2080	2003	2087	2005	2031	2040	2023	2071		2024	2080	2059						2048	2085		2046		2044	
R	3069	3031		3056	3053	3008		3016	3019	3017	3002	3001	3011	3010	3038	3027	3037	3055	3006	3048	3049	3020	3021	3044	3068		3033	3003
				3022	3032	3015		3024	3005	3026			3085	3025				3054	3063	3029	3012	3023		3041				
				3058	3052	3043				3030			3057	3046				3039				3013		3062	3059			



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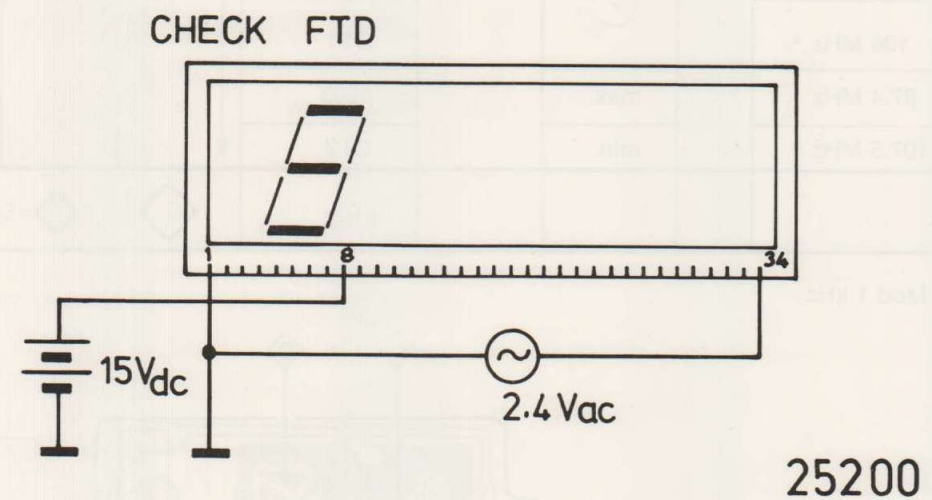
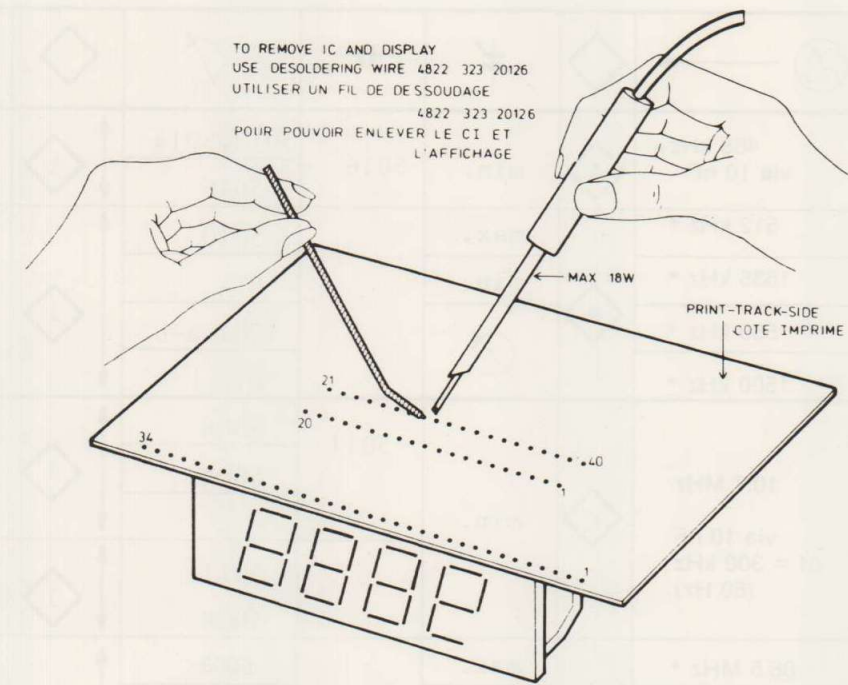
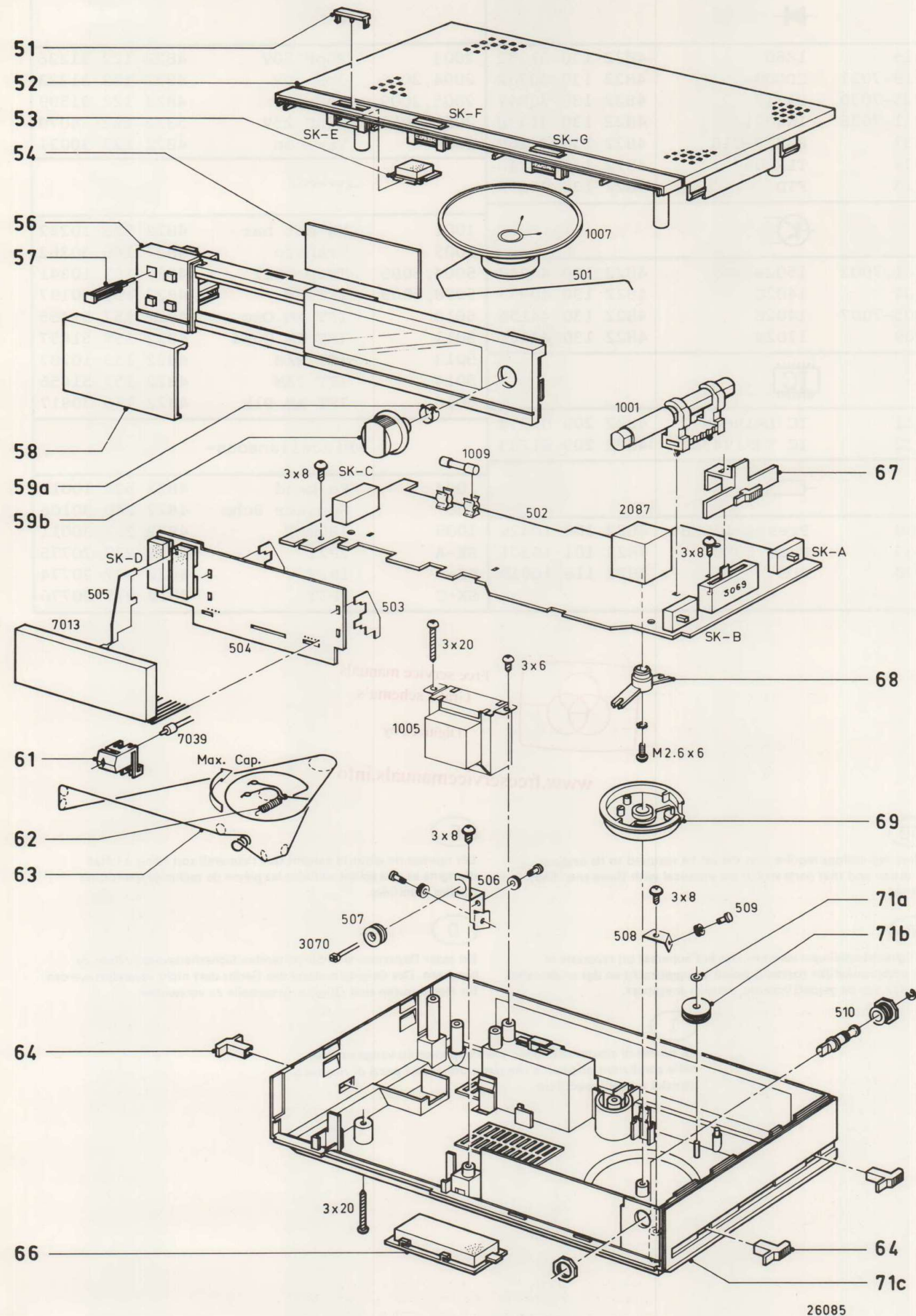
51	4822	411	60836
52	4822	426	40249
53	4822	276	40297
54	4822	460	10542
56	4822	423	50654
57	4822	410	22769
58	4822	381	10615
59	4822	413	41069
61	4822	450	80772
62	4822	492	40445
63	4822	321	30214
64	4822	411	60837
66	4822	423	40634
67	4822	413	41068
68	4822	528	20349
69	4822	528	80858
71	4822	423	40635

ALARM BY RADIO

ALARM OFF

ALARM BY BUZZER

26107



(GB) Because, generally speaking, MOS IC's are very sensitive to overload and too high voltages, measurements should be carried out with greatest possible care. For further instructions, see the directions enclosed in the separate IC-packages.

(F) Parce qu'en général, les IC MOS sont très sensibles à la surcharge et à des tensions trop élevées, il faudra procéder aux mesures avec le plus grand soin. Pour plus de détails, voir les instructions accompagnant l'emballage des IC.

(I) Dato che gli IC MOS sono molto sensibili alla sovraccarica e alle tensioni troppo alte, occorrerà procedere alle misure con particolare cautela. Per altri particolari riferirsi alla istruzioni comprese nell'imballaggio di ogni IC.

(N) Fordi, generelt, MOS-IC'er er meget følsomme for overbelastning og for høje spændinger, må målinger udføres med størst mulig forsigtighed. For videre forholdsregler, se anvisningene vedlagt i IC-pakningene.

(SF) Koska yleisesti ottaen MOS-mikropiirit ovat arkoja ylikuormituksen ja liian suurien jännitteiden suhteen, on mittaukset suoritettava suurella varovaisuudella. Lisäohjeet ovat kyseisen integroidum piirin pakkauksessa.

(NL) Omdat MOS IC's in het algemeen zeer gevoelig zijn voor overbelasting en te hoge spanning dient bij het meten de grootst mogelijke zorgvuldigheid in acht genomen te worden. Zie voor verdere instructies de bijsluiter in de verpakking van de IC's.

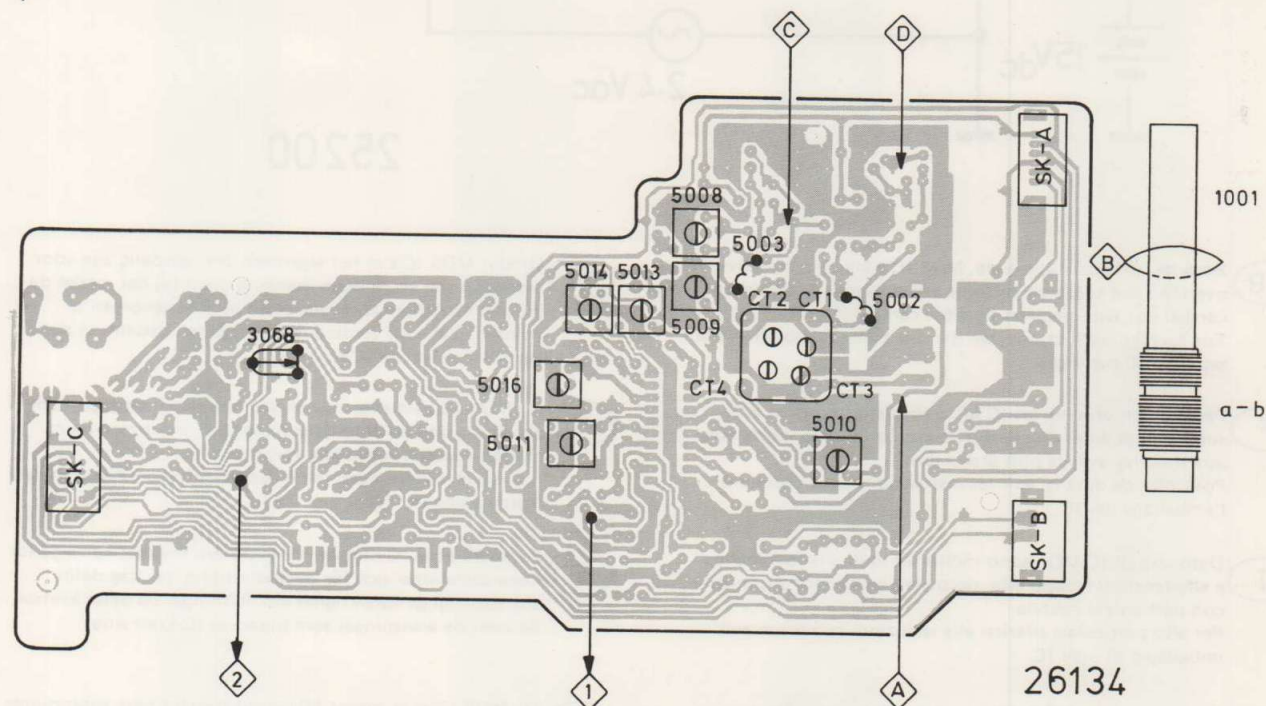
(D) Da MOS IC's im allgemeinen sehr empfindlich gegen Überbelastung und zu hohe Spannung sind, muss man beim Messen äusserst vorsichtig vorgehen. Für weitere Weisungen siehe den beigelegten Zettel in der Verpackung der IC's.

(S) I allmänhet är IC-kretsar AV MOS-typ mycket känsliga för höga spänningar och för överbelastning. Iakttag därför största möjliga försiktighet vid mätningar på dessa kretsar. Se även de anvisningar som bipackas IC-kretsarna.

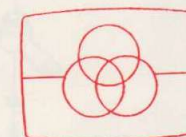
(DK) Da MOS-IC'er er meget følsomme overfor høje spændinger og andre former for overbelastning, skal handteringen af disse ske med størst mulig forsigtighed. Se instruktionen som er ilagt IC-emballagen.

MW/PO (520-1605KHz)	468 kHz* via 10 nF	A	min.	5016	5013, 5014	1	max. symm.
	512 kHz *		max.		5016		
	1635 kHz *		min.		5010		
	550 kHz *	B			CT4	1	max.
	1500 kHz *				1001 a-b		
FM 87.5-108MHz AFC off	10.7 MHz via 10 nF $\Delta f = 300$ kHz (50 Hz)	C	min.	5011	5008	1	max. symm.
					5009		
	86.5 MHz *		max.		5011	1	max.lin. + symm.
	109 MHz *		min.		5008		
	88 MHz *	D			5003	1	max.
Only for /02	106 MHz *				CT2		
	87.4 MHz *		max.		5002		
	107.5 MHz *		min.		CT1		
Clock freq. AC=0V, DC=9V					5003		
					CT2		
					3068	2	f 2 = 50/60Hz

Repeat * Mod 1 kHz



7015	1K60	4822 130 31232		2003	20pF 50V	4822 122 31226	
7019-7021	CDG00	4822 130 30702		2004, 2006	3pF 50V	4822 122 31223	
7023-7030	BA317	4822 130 30847		2005, 2009	5pF 50V	4822 122 31599	
7031-7036	1N4001	4822 130 31438		2051-2059	40nF 25V	5322 122 34079	
7037	BZX79-C16	4822 130 34268		2089	Varicon	4822 125 30031	
7039	TLR206	4822 130 31246					
7013	FTD	4822 130 90099					
7001, 7002	1502B	4822 130 40947		1001	MW Ant bar	4822 526 10222	
7004	1402C	4822 130 40937		1005	Transfo	4822 145 30262	
7005-7007	1402E	4822 130 44196		5004, 5005	Trap coil	4822 153 10341	
7009	1702N	4822 130 44121		5008, 5009	IFT FM	4822 153 50197	
				5010	IFT AM Osc	4822 157 51455	
7011	IC LM1868N-2	4822 209 81234		5011	IFT FM Quad	4822 157 51457	
7012	IC TMS1943N2L	4822 209 81233		5013	IFT 2AM	4822 153 10287	
				5014	IFT 2AM	4822 157 51456	
3068	Preset 100KB	4822 100 10429		5016	IFT AM Blk	4822 156 30817	
3069	Potm 50KD	4822 101 10301		-Miscellaneous-			
3070	CDS	4822 116 10019		1004	Fe bead	4822 526 10011	
				1007	Speaker 8ohm	4822 240 30106	
				1009	180mAT	4822 253 30011	
				SK-A	2P2T	4822 277 20775	
				SK-B	1P2T	4822 277 20774	
				SK-C	2P3T	4822 277 20776	



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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)

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.