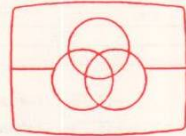


Stereo Radio Recorder D8443

01/10/11/19

Service
Service
Service

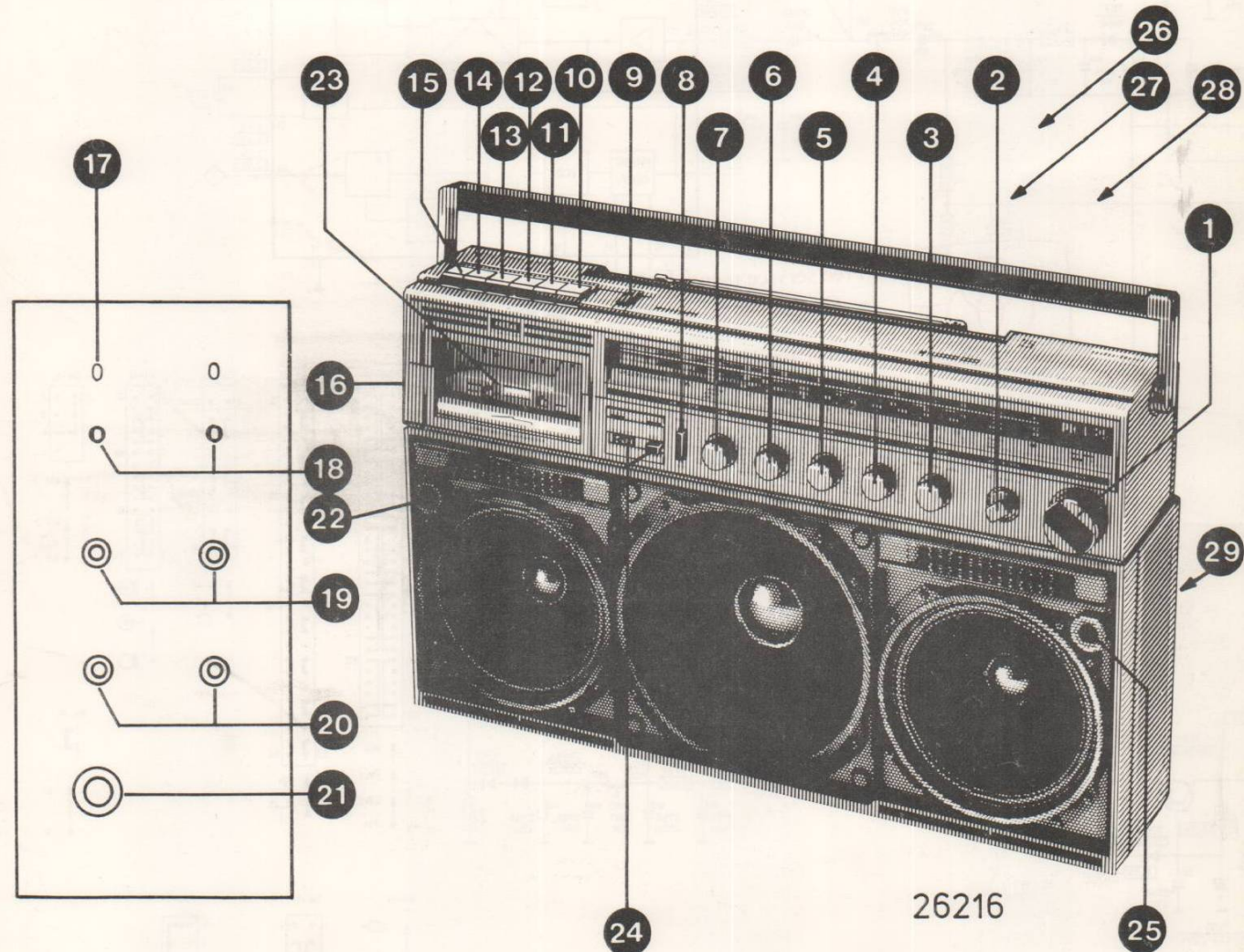


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For repair information of the cassette mechanism see
Service Manual of "Recorders tape deck RT-1 and RT-3"

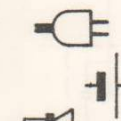
Service Manual



Connections and control:

1		2000	16	I/P Source	SK-D
2	MW-SW1-SW2-FM	SK-A	17	Remote	BU-8
3	St-Mono-Sp	3553	18		BU-3, BU-4
4		3554	19		BU-1, BU-2
5		3550	20		BU-5, BU-6
6		3551	21		BU-7
7		3555	22		4002
8	Tape select	SK-H	23	Cass comp	
9		SK-C	24	Counter and reset button	
10		SK-B, SK-F	25		4001
11		SK-F	26	RIF	SK-E
12		SK-F	27	Volt select	SK-J
13			28		SK-G
14		SK-F	29	Battery comp	
15					

Specifications:



AM IF
FM IF

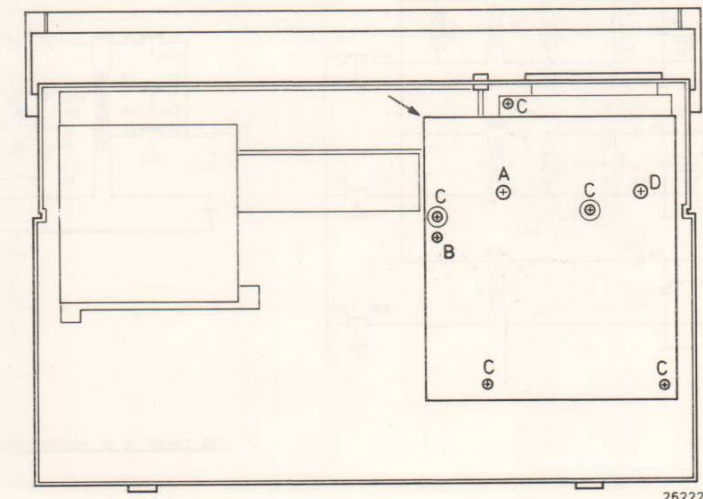
Freq response Ferro: 60-10,000Hz (TC-R)
Metal/Chrome: 60-14,000Hz (TC-QR)

120/220/240V 50/60Hz

12V (8 x R20)

2 x 2W ± 1dB @ 8Ω (d=10%)
3.2W ± 1dB @ 4Ω

MW/PO 520-1605KHz
SW1/OC1 2.3-7.3MHz
SW2/OC2 9.5-21.75MHz
FM 87.5-108MHz
Tape speed 4.76cm/sec ± 3%
Wow and flutter <0.35%
Signal to noise ratio 40dB (TC-R)



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



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

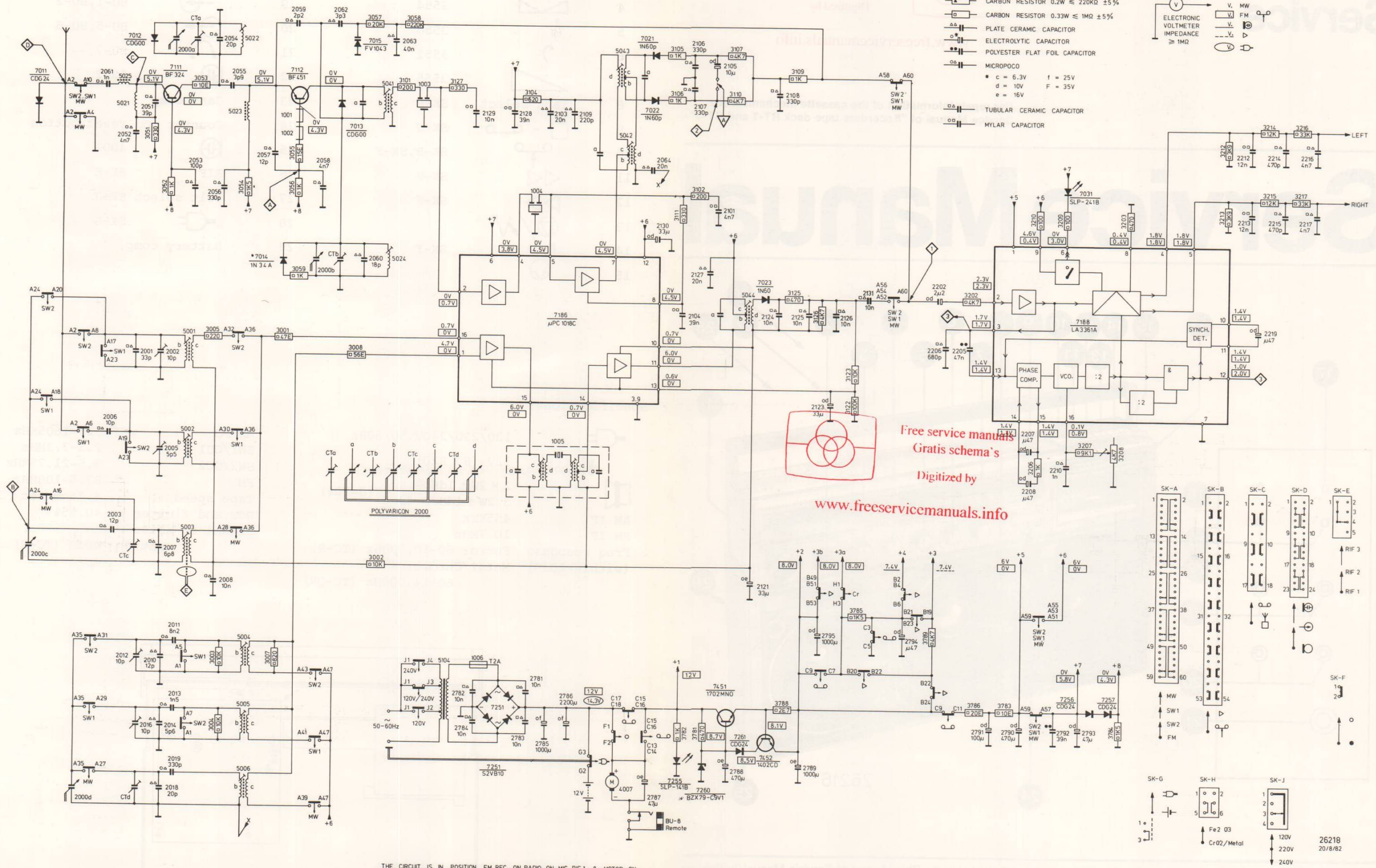
Subject to modification

4822 725 15235

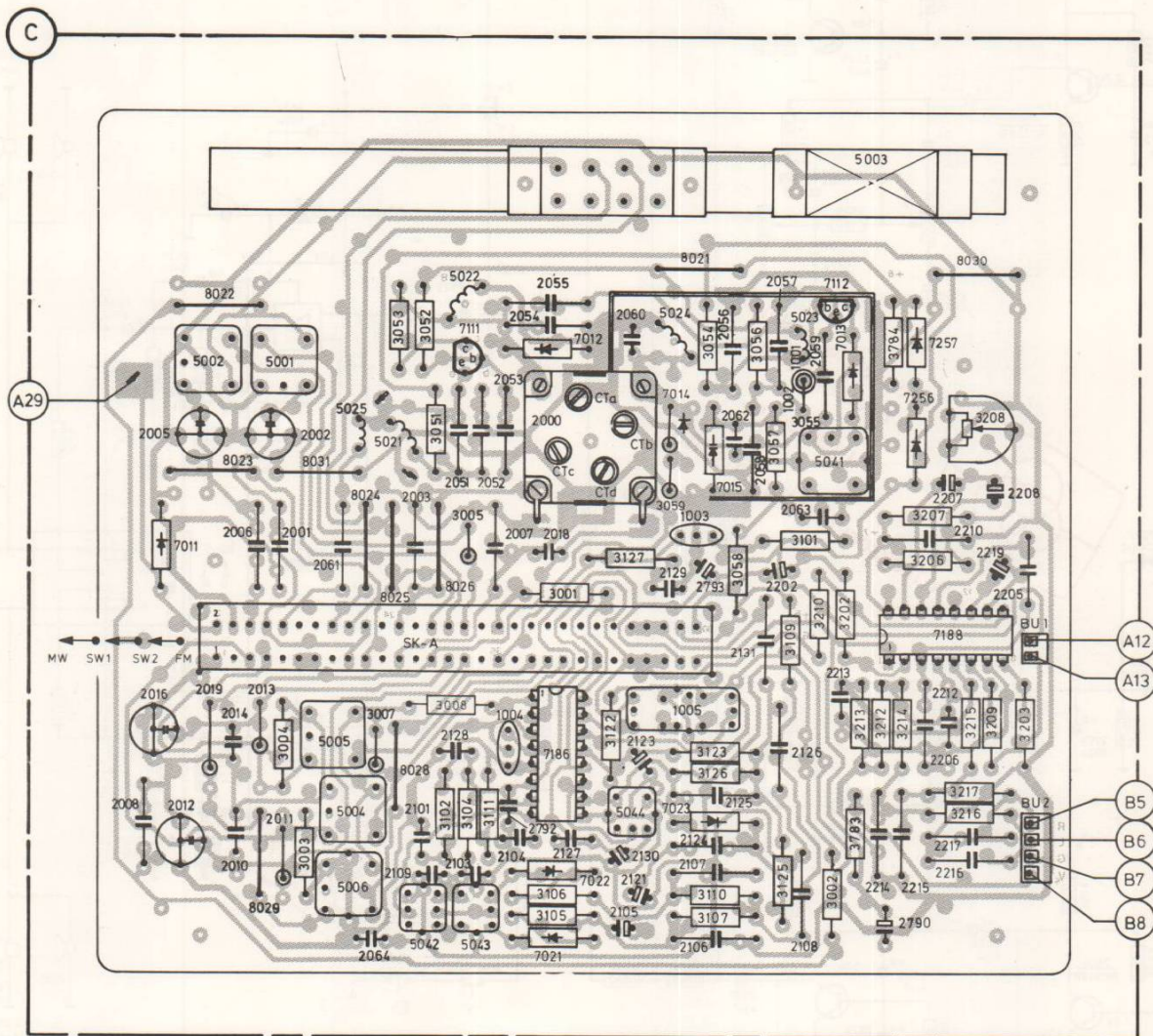
Printed in The Netherlands

PHILIPS

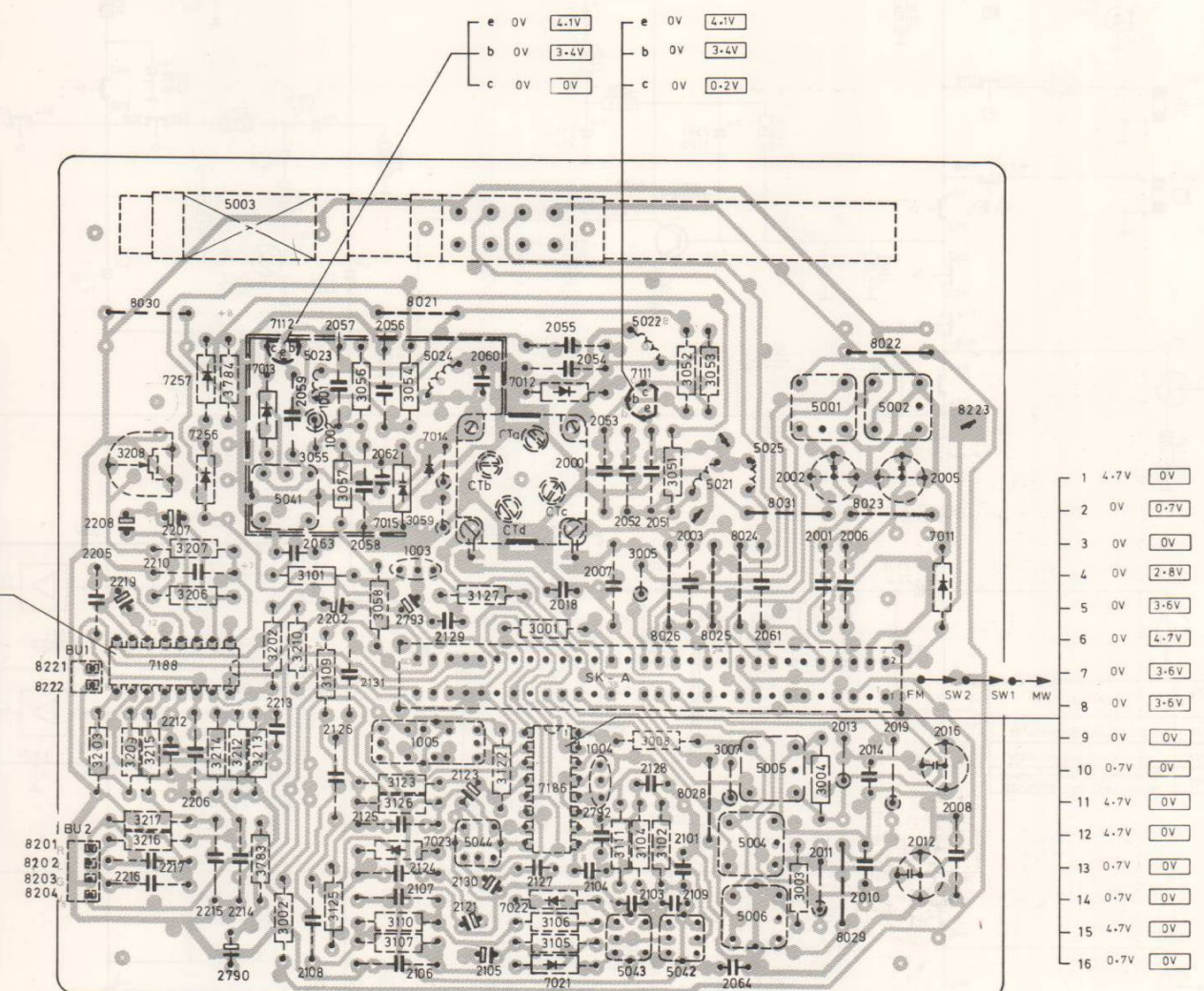
Misc.	7011	5025 7012		7111	5004	5003	5023 5022 7014 1001 7112			7013 7015 5041 5024 1003 5104			1006 7251		1004	1005	5043 4007 7021		7255	7260 7451		5044 7023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		5021		5002		5004-5006			1002												7186		5042		7022	BU-8		7261 7452		7256 7031 7257																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Cop.	2000	2061	2052	2051	2002	2011	2053	2056	2054	2057	2059	2058	2062	2060	2063	2782 2129		2128 2781		2103 2786 2109																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			



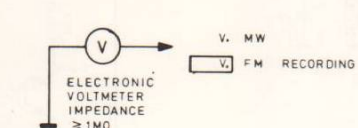
Misc.	5002	5025	5004	5021	5042	7111	5022	7021	7022	5044	5024	8021	1001	7112	7013	7256	7257	7257	7256	5003	7013	5023	7015	8021	5044	7012	1004	5042	5022	8028	5021	5005	5001	8023	5002	7011												
	7011	8023	5001	5005	8024	8025	8026	1004	7186	7012	7014	1003	7015	5023	5041	7188	7188	7112	1001	7014	5024	7022	7186	7111	8025	8024	5004	8029	8022																			
	8022	8029	8031	5006	8028	5043					1005	7023		1002	5003	8030	8030																															
Cap.	2008	2005	2006	2011	2002	2064	2003	2051	2052	2055	2018	2000	2060	2124	2793	2056	2063	2057	2214	2207	2210	2208	2216	2208	2210	2207	2214	2213	2063	2057	2062	2124	2129	2060	2000	2055	2054	2052	2051	2003	2002	2006	2014	2016				
	2016	2010	2014	2061	2109	2103					2104	2054	2792	2129	2123	2107	2130	2131	2062	2202	2058	2059	2215	2217	2205	2205	2219	2212	2206	2790	2108	2059	2126	2131	2107	2123	2130	2127	2018	2053	2104	2128	2109	2064	2001	2013	2019	2005
	2012	2019	2013	2001			2101	2128	2053	2007	2127	2105	2121	2106	2125	2108	2126	2213	2790	2206	2212	2219	2216	2215	2205	2218	2215	2058	2056	2202	2125	2793	2106	2121	2105	2007	2792	2101	2103	2010	2061	2011	2012	2008				
Res.				3004	3007	3053	3052	3104	3111	3001	3127	3054	3058	3056	3101		3202	3784	3207	3215	3209																											
				3003			3051	3102		3106	3122	3123	3110	3057	3055	3210	3783	3212	3206	3217	3208																											
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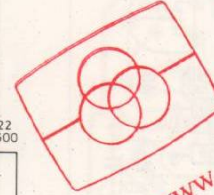
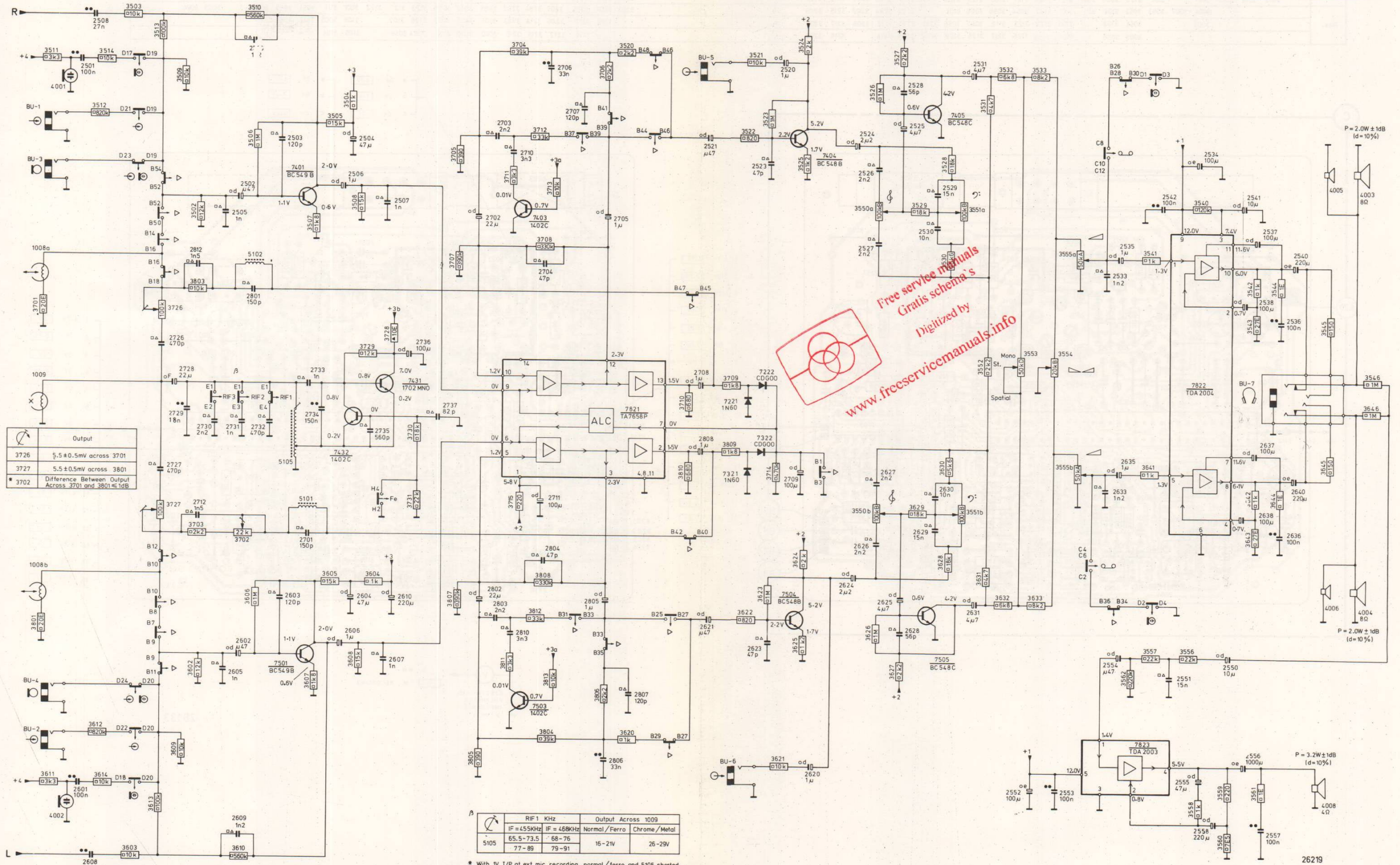
- 1 4.7V 4.7V
- 2 2.3V 2.3V
- 3 1.7V 1.7V
- 4 1.8V 1.8V
- 5 1.8V 1.8V
- 6 0V 3.0V
- 7 0V
- 8 0.4V 0.4V
- 9 4.6V 0.4V
- 10 1.4V 1.4V
- 11 1.4V 1.4V
- 12 1.0V 2.0V
- 13 1.4V 1.4V
- 14 1.4V 1.4V
- 15 1.4V 1.4V
- 16 0.1V 0.8V



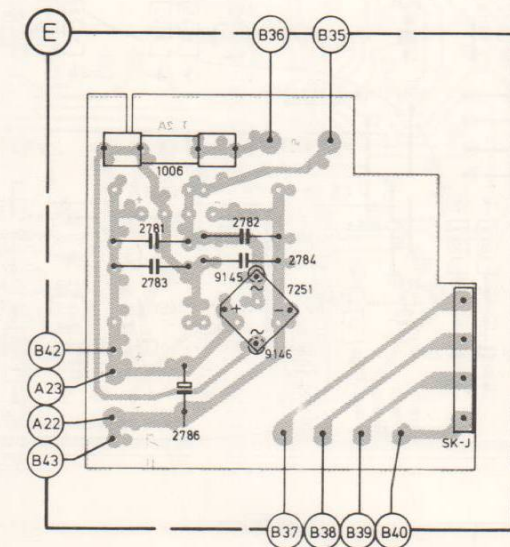
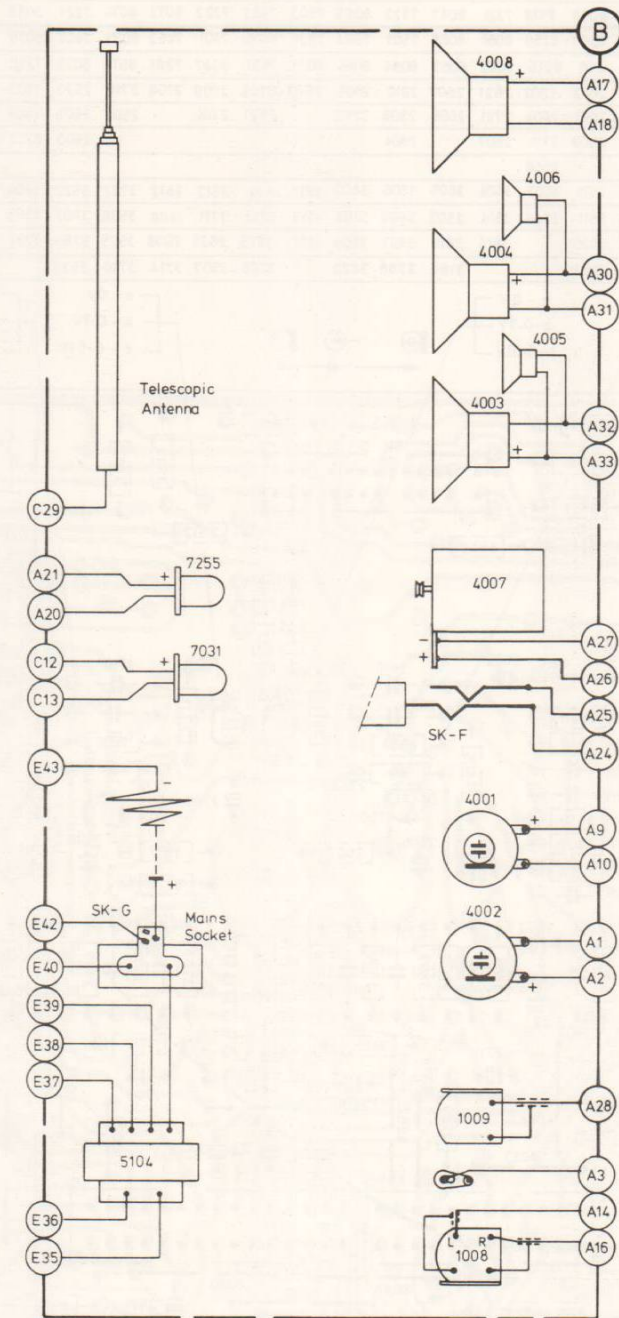
- 1 4.7V 0V
- 2 0V 0.7V
- 3 0V 0V
- 4 0V 2.8V
- 5 0V 3.6V
- 6 0V 4.7V
- 7 0V 3.6V
- 8 0V 3.6V
- 9 0V 0V
- 10 0.7V 0V
- 11 4.7V 0V
- 12 4.7V 0V
- 13 0.7V 0V
- 14 0.7V 0V
- 15 4.7V 0V
- 16 0.7V 0V



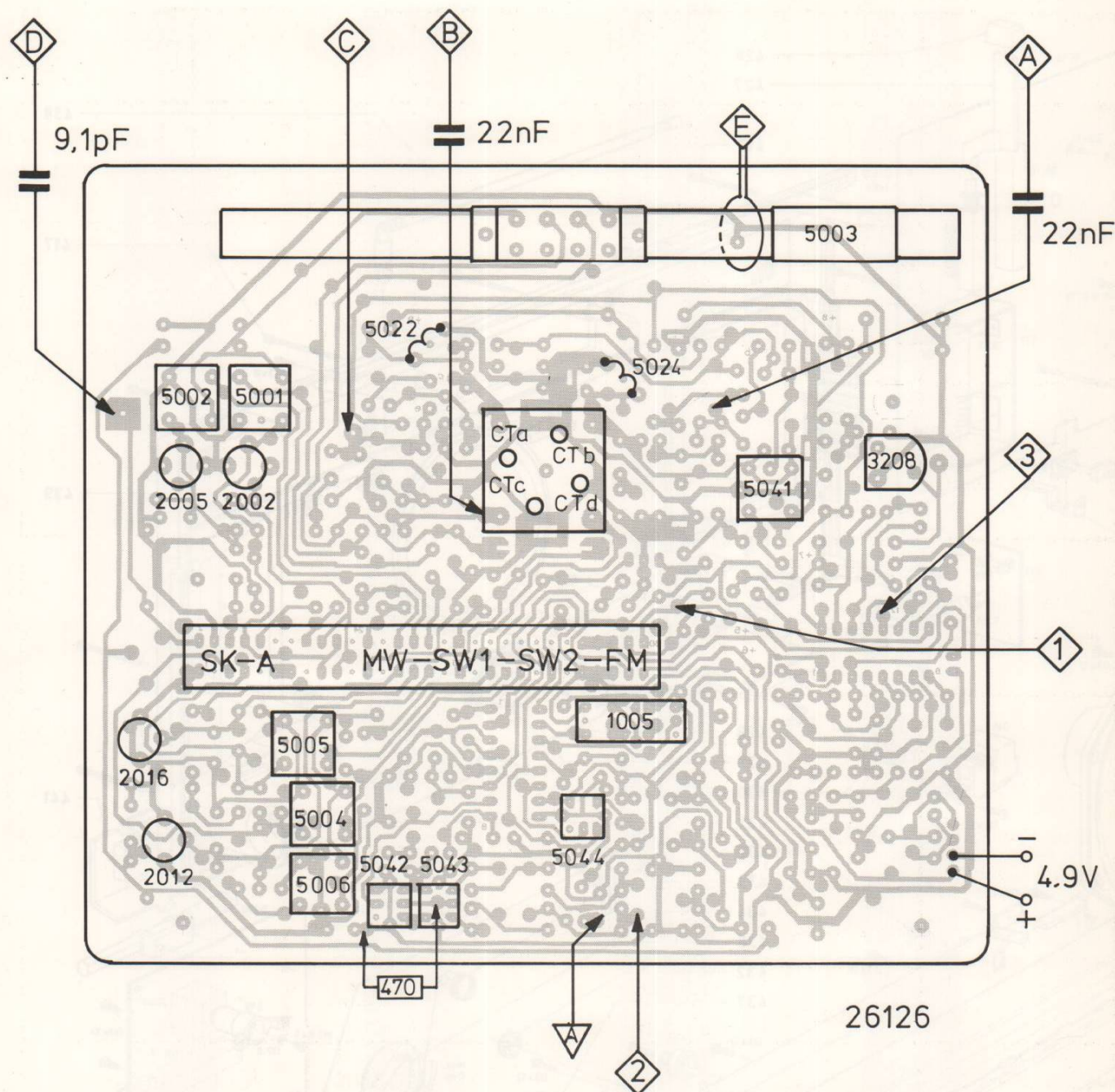
Misc	1008 4001 BU-1 + BU-4				5102	5105	7401	7432	7431			7503	7821		BU-5 7221	7222	7404			7405			7823	7822	BU-7	4008	4005	4003
	1009 4002				5101 7501						7403				BU-6 7321	7322	7504			7505					4006		4004	
Cap	2501	2508	2726	2728 2730	2505 2801 2502 2732 2503 2701	2733	2506 2504	2507 2736	2802 2703		2704	2706 2707 2705	2806 2807	2708 2521	2523	2520 2620	2624 2524	2626 2627 2528 2530	2529 2531			2552	2553	2533 2535	2542	2558 2534 2550 2541	2538 2537	2536 2540
	2601	2608	2727	2729 2812	2605 2731 2602	2603	2734	2606 2604	2607	2737	2803	2804	2805	2808 2621	2623	2709	2526	2625	2525 2629	2630 2631					2533 2535	2542	2558 2534 2550 2541	2538 2537
Res			2712	2609 2509			2735	2610	2702		2710	2810	2711					2527	2628					2633 2635	2551	2554	2555	2557
	3701 3511 3512 3514	3503 3513 3727	3509 3502 3703 3702 3506			3507 3505 3504	3728 3730	3807 3705 3711 3711	3715 3712 3708 3713	3706 3520	3710	3709	3522 3521 3523 3714 3524 3624	3526	3527	3529 3528 3630 3551	3531 3532	3533	3555	3562	3541	3540	3559 3542 3642	3544	3545	3546	3646	
	3801 3611 3612 3614	3603 3613 3726 3609 3803 3602 3610	3606 3510	3607 3605 3508 3608 3729	3604 3731	3707 3805 3811 3804	3704	3812 3808 3813	3806 3620	3810	3809	3622 3621 3623	3525 3625	3626 3550	3627	3629 3530 3628 3631	3552 3632	3553 3633	3554	3641 3557 3556	3558	3560 3543 3643 3561 3644	3645	3646				



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Res.			Cap.			Misc.		
						4008		
3614	3509	3609				8083	BU-1	
3611			2601			SK-D	BU-8	
3612								
3511						8084		
3512						8051	4006	
3514			2501			8086	8085	
3713								
			2712			8052	4004	
3726	3803	3813	2602	2710	2810			
			2502		2503			
3646	3646					7403	7503	
3520	3620		2640	2540	2603		4005	
3703	3505							
3811	3606							
3727	3712	3812	2728	2812				
		3506	2550	2803		2709	7222	7322
3711	3605		2509	2609				4003
3645	3510	3610	2730	2731		7501		
3545	3705		2506	2606	2604	7401		
3507	3607	3805	2732					
3702								
3814								
3704								SK-E
3608								
3705	3714	3809	2804	2607	2806			
3707	3508		2733	2504	2807			
3624			2706	2702	2802			
3521	3521		2507					
3708	3806		2727	2726				
3706	3806		2701	2707				
3504								
			2734					
3810			2704					
			2610					
3728			2711					
3729	3710		2801	2729				
3602								
3715			2735					
3789			2708	2808	2736			
			2505	2805	2605			
				2520				
3613								
3502			2534					
3522			2521	2785				
			2536	2636	2542			
3556			2555					
3644	3544	3513	2523	2623		8015		
			2794					
3785			2621					
3558								
						7404	7504	
3622						8118	4002	
3525	3523	3623				7823	7822	
3625						8214	SK-G	
3540	3557		2538					
			2554			8058		
			2551			8119	8059	
3543			2537	2552		8060	SK-C	
3524						8107		
3542	3559	3562				8061		
3542						8062		
			2553					
3541	3641	3560				8063	8087	
3643	3781	3701	2558			8078	8101	
3503	3603	3801	2737	2556		8075	8108	
3642						7452	1009	
						8065	9143	
			2541	2638	2637	8064	7461	
3731	3788	3786	2535	2635	2557	7260	8102	
			2789	2791		8103	5104	
3624			2533			8104		
3782	3561		2788	2508	2608	8105		
			2633			7261		
			2795			9144		
3730						8216	1008	
3532	3552	3531	2628	2631	2531	1006		
3628								
3632	3528	3631				8115		
3626	3627		2781	2782		8116	7505	
3551	3555							
3553	3554	3550	2624	2784				
3527								
			2783			8110	7405	
3533						8111	9145	
			2626	2526	2627	8114	7251	
3530	3630		2524	2528	2629		SK-H	
3633								
3529	3526							
			2527	2530	2529		9146	
			2625					
			2525					
3629			2786					
								SK-J



SK-A								
MW/PO 520-1605KHz	455KHz $\Delta f=10\text{KHz}$		min		1005 5044		max.	symm.
	512KHz		max.		5006		max.	
	1635KHz		min.		CTd			
	600KHz				5003			
	1400KHz				CTc			
SW1/OC1 2.3-7.3MHz	2.22MHz		max.		5005		max.	
	7.45MHz		min.		2016			
	2.5MHz				5002			
	7.2MHz				2005			
SW2/OC2 9.5-21.75MHz	9.3MHz		max.		5004		max.	
	22.22MHz		min.		2012			
	10MHz				5001			
	21MHz				2002			
FM 87.5-108MHz	10.7MHz $\Delta f=300\text{KHz}$ (50Hz)		min.		5043		max.	symm.
					5041			
					5042			
					5043		max.lin. + symm.	
	86.5MHz		max.		5024			
	109MHz		min.		5022		max.	
					CTb			
					CTa			
FM Stereo					3208		19±0.2KHz	
Repeat - Herhalen - Répéter - Wiederholen - Repetera - Ricominciare - Gentage - Ghentagelse - Toista								

- GB**

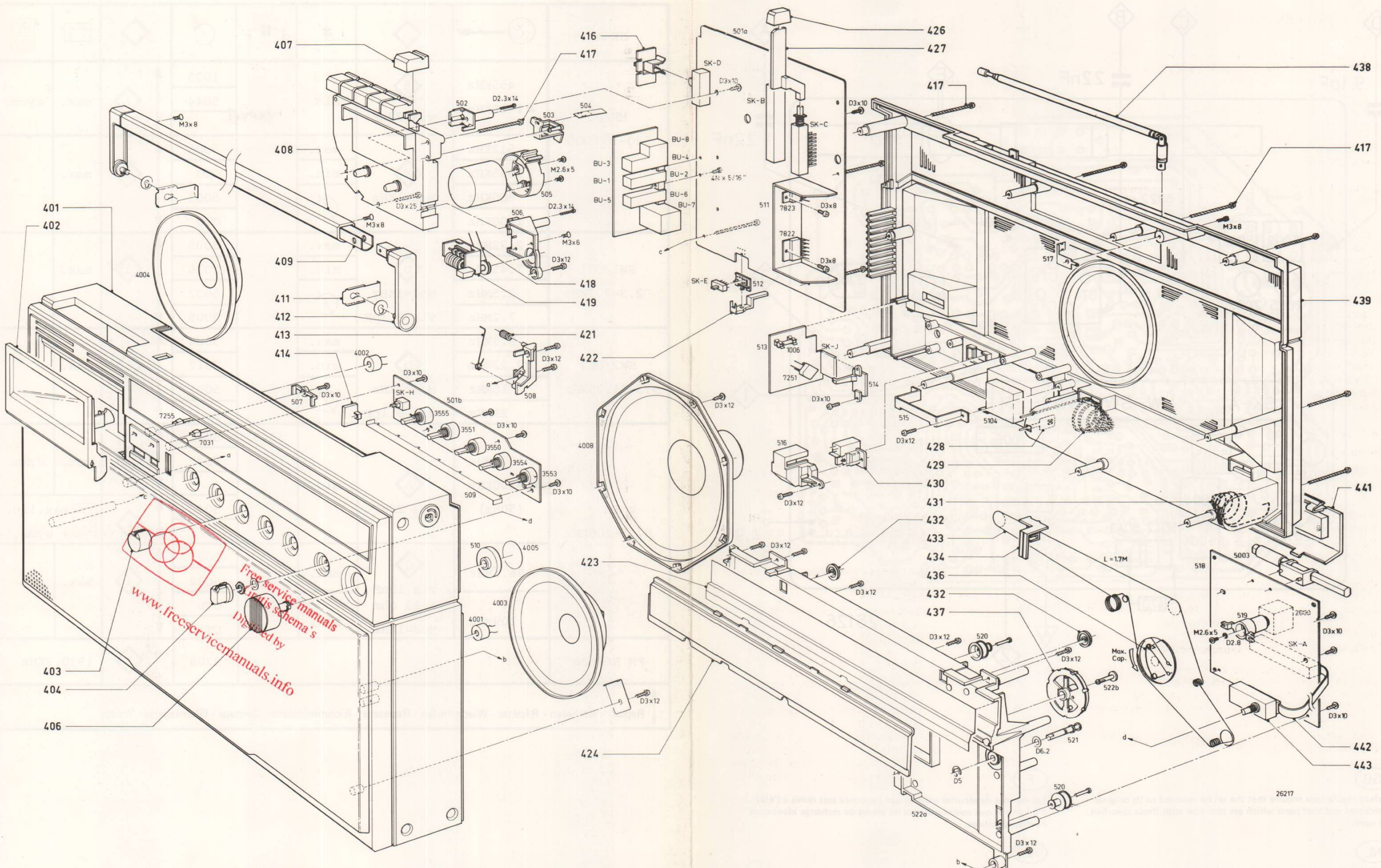
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.
- NL**

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.



401	4822 443 61069	413	4822 492 62824	426	4822 410 22899	437	4822 528 80769
402	4822 443 61068	414	4822 410 22898	427	4822 403 51892	438	4822 303 30285
403	4822 413 31135	416	4822 413 51206	428	4822 492 50824	439	4822 423 50695
404	4822 413 31134	417	4822 502 11431	429	4822 492 51258	441	4822 443 61067
406	4822 413 51207	418	4822 358 30201	430	4822 267 40397	442	4822 321 20618
407	4822 411 60907	419	4822 349 50155	431	4822 290 80352	443	4822 277 20789
408	4822 498 40504	421	4822 532 80653	432	4822 528 80599		
409	4822 526 10242	422	4822 403 51734	433	4822 321 30214		
411	4822 403 51888	423	4822 333 60178	434	4822 450 80842		
412	4822 498 40503	424	4822 450 60282	436	4822 492 40822		

GB DISASSEMBLY

Cabinet

- Remove the 10 screws 417 from rear cover 439. Pay attention to the battery connecting wires and the antenna wire connector.
- Loosen the 5 screws (D3x 10) and unhook wire 442 to gain access to the conductor of the radio pc-board.
- After having removed the radio pc-board, 4 screws (D3x 10) and the 5 knobs 403, the control panel can be taken out.

Replacing the radio frame (with or without radio pc-board)

- Remove the 7 screws D3x 12, mounted on the radio frame.
- Loosen the radio on/off switch bracket 427.
- Remove screws A and B (Fig. 1).
- Pull the amplifier pc-board slightly upwards (see arrow) (Fig. 1).
- Tape deck and amplifier pc-board can, after loosening screws B and C (Fig. 1), be taken out of the cabinet.
- To be able to replace the loudspeakers, the amplifier pc-board must be removed.
- Cassette lid 402 can be removed by pressing the left-hand lug in the cassette lid slightly inwards (cassette lid open).

ADJUSTMENTS

Tape speed

- Remark:*
For this adjustment it is not necessary to uncase the set.
- With wow-and-flutter meter*
- Connect the set to a wow-and-flutter meter (BU7).
 - Set in position "playback", with the 3150 Hz section of cassette SBC133.
 - Adjust the speed with the preset potentiometer (see hole at underside motor).
Maximum permissible deviation $\pm 2\%$.
 - Besides, the wow-and-flutter value can be read with this meter. It may be 0.35% maximum.

Azimuth adjustment rec./playback head K1

- The azimuth is adjustable with socket screw M2x6.
- For this adjustment the 8 kHz section of testcassette SBC133 may be used (4822 397 30039).
- If necessary, re-adjust volume control so that the output voltage is well readable.
- In start position the 8 kHz signal must be adjusted for maximum output voltage at BU7.

F DEMONTAGE

Boîtier

- Enlever les 10 vis 417 à la paroi arrière 439. Faire attention aux fils de connexion de batterie et au connecteur d'antenne.
- Dévisser les 5 vis (D3x 10) et décrocher le fil 442 afin d'accéder au tracé radio.
- Après avoir enlevé les 4 vis (D3x 10) et les 5 boutons 403 de la platine radio, ôter la platine de commande.

Comment remplacer le châssis radio (avec ou sans platine audio)

- Enlever les 7 vis D3x 12 qui sont montées au châssis radio.
- Détacher l'étrier 427 du commutateur marche/arrêt.
- Ôter les vis A et B (Fig. 1).
- Soulever légèrement la platine d'ampli, voir la flèche (Fig. 1).
- Après avoir dévissé les vis B et C (Fig. 1) on pourra enlever la mécanique de la platine d'ampli.
- Il faut au préalable enlever la platine d'ampli si l'on veut remplacer les haut-parleurs.
- Le couvercle du compartiment de cassette 402 pourra être enlevé en position rabattue et lorsque la languette de gauche est légèrement repliée vers l'intérieur.

REGLAGES

Vitesse de défilement

- Remarque:*
Ce réglage ne requiert pas le démontage de l'appareil.
- A l'aide d'un instrument de mesure de pleurage et scintillement*
- Brancher l'appareil à l'instrument de mesure (BU7).
 - Positionner l'appareil sur "reproduction" la section 3150 Hz de la cassette d'essai SBC133 étant dans l'appareil.
 - Régler la vitesse du potentiomètre d'ajustage (trou en-dessous du moteur).
Marge max. admissible $\pm 2\%$.
Le taux de pleurage peut aussi être lu sur l'instrument.
Il ne doit pas dépasser 0,35%.

Azimuth de la tête enreg./reproduction K1

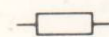
- L'azimuth est réglable grâce à la vis à six pans creux M2x6.
- Utiliser pour l'alignement le côté 8 kHz de la cassette SBC133 (4822 397 30039).
- Au besoin, ajuster la commande de volume jusqu'à ce que la tension de sortie soit bien lisible.
- En position start (de démarrage) le signal de 8 kHz doit être aligné pour un maximum de tension de sortie sur BU7.

-Miscellaneous-

1001,1002	Fe core	4822 526 10011
1003,1004	Filter 10.7MHz	4822 242 70249
1005	Filter 455KHz	4822 242 70318
1006	Fuse 2AT	4822 253 30025
4001,4002	E-mic	4822 242 10033
4003,4004	Speaker 8Ω	4822 240 50211
4005,4006	Buzzer	4822 280 10137
4008	Speaker 4Ω	4822 240 60148
BU-1 ÷ 8	Jack comb	4822 267 50309
SK-A	Bandswitch	4822 277 20788
SK-B	Recording	4822 277 20787
SK-C	Radio/Tape	4822 276 11002
SK-D	I/P source	4822 277 20577
SK-E	RIF	4822 277 20228
SK-H	Tape select	4822 276 11006
SK-J	Voltage select	4822 272 10225



2000	Varicon	4822 125 20226
2002,2012	Trimmer 10pF	4822 125 50062
2016		
2005	Trimmer 5.5pF	4822 125 50211
2011	Poco 8.2nF ± 2%	5322 121 54151
2013	Poco 1.5nF ± 2%	4822 121 50432
2018,2054	Cer 20pF 50V	4822 122 31226
2063	Cer 40nF 25V	4822 122 40114
2205	Poles 47nF 50V	4822 121 41676
2501,2536	100nF 100V	4822 121 41672
2542,2553		
2557,2601		
2636		
2508,2608	Poles 27nF 250V	4822 121 41705
2706,2806	Poles 33nF 250V	4822 121 41675
2729	Poles 18nF 400V	4822 121 41706
2734	150nF 100V	4822 121 41682



3208	Preset 4K7	4822 100 10036
3550,3551	Potm 100KB × 2	4822 101 30488
3553	Potm 50KD	4822 101 30491
3554	Potm 20KB	4822 101 30489
3555	Potm 50KA × 2	4822 101 30487
3702	Preset 22K	4822 100 10051
3726,3727	Preset 100K	4822 100 10052



5001	SW2 Ant coil	4822 157 51484
5002	SW1 Ant coil	4822 157 51578
5003	MW Ant coil	4822 157 51106
5004	SW2 Osc coil	4822 157 51485
5005	SW1 Osc coil	4822 156 40621
5006	MW Osc coil	4822 156 30523
5023,5025	Fe ind 0.7uH	4822 157 50791
5041	IFT FM Org	4822 156 30439
5042	IFT FM Grey	4822 156 30862
5043	IFT FM Blue	4822 156 30861
5044	IFT AM Blk	4822 156 30863
5101,5102	Bias filt 33mH	4822 156 90031
5104	Mains transfo	4822 145 30286
5105	Bias osc coil	4822 156 30831



7011,7256	CDG24	4822 130 30702
7257,7261		
7012,7013	CDG00	4822 130 30702
7222,7322		
7014	1N34A	4822 130 30869
7015	FV1043	4822 130 30845
7021,7022	1N60P	4822 130 30312
7023,7221	1N60	4822 130 31012
7321		
7031	SLP-241B	4822 130 31192
7251	2SVB10	4822 130 30993
7255	SLP-141B	4822 130 31191
7260	BZX79/C9V1	4822 130 30862



7111	BF324	4822 130 41448
7112	BF451	4822 130 41395
7186	uPc1018C	4822 209 80967
7188	LA3361A	4822 209 80821
7401,7501	BC549B	4822 130 40936
7403,7503	1402C	4822 130 40937
7404,7504	BC548B	4822 130 40937
7405,7505	BC548C	4822 130 44196
7431,7451	1702MNO	4822 130 44121
7432,7452	1402CD	4822 130 40937
7821	TA7658P	4822 209 81252
7822	TDA2004	4822 209 80751
7823	TDA2003V	4822 209 81473

Service
Service
Service

Information

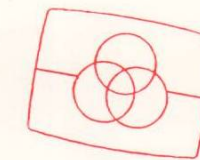
1983-03-24

D8444, D8443

A83-124

Please add to your Service Manual the following items:

1008	R/P head	4822 249 10101
1009	Erase head	4822 249 40125
4007	Motor	4822 361 20404

Free service manuals
Gratis schema's

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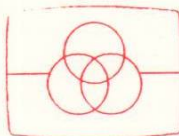
Service
Service
Service

1983-08-01

Information

General stereo radio recorders
e.g. D8200 family | D8323 family
D8120 family | D8443 family
D8223 family

A83-131



Free service manuals
Gratis schema's

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It may occur that the stereo reception of a stereo radio recorder, which is equipped with decoder IC LA3361A, is not very good.

To improve this the capacitor of 1 nF, from p.16 of the IC to ground, has to be replaced by a micropoco (4822 121 50566) for better stability. After replacing, the stereo decoder has to be realigned on $19 \pm 0,1$ kHz.

Service
Service
Service

Information

1984-04-06

D8443, D8444

A84-117

Already published A83-124 and A83-131

During production the following changes are introduced:

Recorder part

Capacitor 2730 was 2.2 nF, becomes 1.5 nF
Capacitor 2731 was 1 nF, becomes 1.2 nF
Capacitor 2732 was 470 pF, becomes 820 pF
Resistor 3730 was 18 k, becomes 22 k
Coil 5105 4822 156 (was 4822 156 30831)

Reason: To have a common RIF interference free zone for sets with IF = 468 kHz and with IF = 452 kHz.

Resistor 3789 was 4k7, becomes 2k2

Reason: To reduce delay time at start of recording.

Capacitor 2131 was 10 nF, becomes 5.6 nF

Reason: To improve frequency response.

Capacitor 2508 and 2608 were 27 nF, become 18 nF

Reason: To reduce microphony effect.

Add: Capacitor 2713 of 18 nF between p.13 of IC7821 and ground
Capacitor 2813 of 18 nF between p.2 of IC7821 and ground
Resistors 3514 and 3614 were 10k, become 22k
Resistor 3803 was 10k, becomes 8k2

Reason: To improve sensitivity and sound quality of recording/playback.

The Rec/PB head has been changed.
Code number 4822 249 10208 (was 4822 249 10101).

Reason: To reduce tolerances of heads.

The preset potmeters 3726 and 3727 are replaced by fixed resistors of 10k.

Reason: Due to change of Rec/PB head.

Capacitor 2785 was 1000 μ F/25 V, becomes 2200 μ F/25 V
2786 has been deleted

Reason: To prevent damage of contacts of SK-F.

For not modified PCB's please act as follows:
Delete cap. 2785, cut off the coppertrack between cap. 2785 (pos. side) and E23/B24.
Move cap. 2786 to the position of cap. 2785. Connect cap. 2785 (pos. side) to junction of cap. 2542 and jumper 8100 by means of a wire.

LF part

Add coil 5103 (code number 4822 156 90031) across capacitor 2554.

Capacitor 2554 was 0.47 μ F/10 V, becomes 220 μ F/16 V

Jumpers 8108 and 8119 have been deleted

Capacitor 2556 was 1000 μ F/ 16 V, becomes 470 μ F/ 16 V

Reason: To reduce hum level during playback.

The coppertracks in the line in/out area have been changed, so that the line in grounding is common to the line out grounding.

Reason: To prevent oscillating effect when both groundings are connected to each other.

As Service solution for not modified PCB's one can cut off the coppertrack of line-in ground and connect the line-in connector directly to the line-out connector (ground side only).

Resistor 3552 was 2k2, becomes 6k8
Potmeter 3553 becomes 100 kB (code number 4822 101 30491)

Reason: To improve channel separation in pos. spatial.

Resistors 3544 and 3644 were 1 Ω become 2.7 Ω

Reason: To improve audio stability.

Service
Service
Service

Information

1986-01-20

D8443, D8444

A86-104

Already published A83-124, A83-131 and A84-117

During production the following changes are introduced

- Add diode 7259, 1N4001 service code number 4822 130 31438 between +3 and pin 19 of SK-B.
- Change resistor 3789 from 2.2k Ω to 4.7 k Ω .
- Delete elco 2504 and 2604 and wire 8066.

Reason: To solve motor boating problem at play back.

From week 8603 the following changes are made

The Rec/playback head has been changed from 4822 249 10208 to 4822 249 10157.

- Replace resistor 3504 and 3604 by wires.
- Change resistor 3505 and 3605 from 15 k Ω to 22 k Ω .
- Change resistor 3507 and 3607 from 1.8 k Ω to 1.5 k Ω .
- Change resistor 3514 and 3614 from 22 k Ω to 33 k Ω .
- Add wire between elco 2794 neg. terminal to elco 2610 neg. terminal.

Reason: Due to the change of Rec/play head.