

Service Manual

CONTROLS:

1		"Pause"	10	Tuning indicator
2		"Stop"	11	FM/LW/MW/SW "Band" SK-B
3		"F.FWD"	12	SW1-SW9 "SW selector" .SK-C
4		"Rewind"	13	 "Volume" 3071
5		"Play"	14	 "Tone" 3072
6		"Rec"	15	"Battery cover"
7	Radio ON/OFF	SK-A	16	6V  "DC socket" BU-1
8		"Mic" 1008	17	 "Headphone" BU-2
9		"Tuning" 2125,2126	18	AC/DC Mains adapter

SPECIFICATIONS:

	6V	SW4	11.6-12.15MHz
Adapter input	220V (-/00)	SW5	13.4-14.05MHz
	120V/220V (-/01)	SW6	14.95-15.65MHz
output	6V	SW7	17.5-18.2MHz
IF-AM	468KHz (-/00)	SW8	21.2-21.95MHz
	455KHz (-/01)	SW9	25.4-26.3MHz
IF-FM	10.7MHz	Tape speed	4.7cm/sec ±2%
MW	520-1605KHz	Wow and flutter	0.4%
FM	87.5-108MHz	Freq. response	250-6300Hz
LW	150-265KHz	(within 8dB)	
SW1	5.95-6.25MHz		8Ω 0.5W
SW2	7-7.35MHz		32Ω 5.5mW
SW3	9.45-9.9MHz		

Adjustment	Cassette	Recorder in position	Apply signal to	Measure on	Read on	Adjust with	Adjust to
Tape speed	3150 Hz of SBC420	PLAY Tape	-	BU-2	Wow-and flutter meter	3214	*a 4.76 cm/s
Azimuth R/P head	6.3kHz of SBC420	PLAY Tape	-	BU-2	mV-meter	Left screw R/PB head	Max. output and outp. L ≈ outp. R

*a The maximum permissible speed deviation is 2%. Moreover, the wow-and-flutter value can be read. This value should not exceed 0.35%

SBC420 = 4822 397 30071

(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 in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

(D)

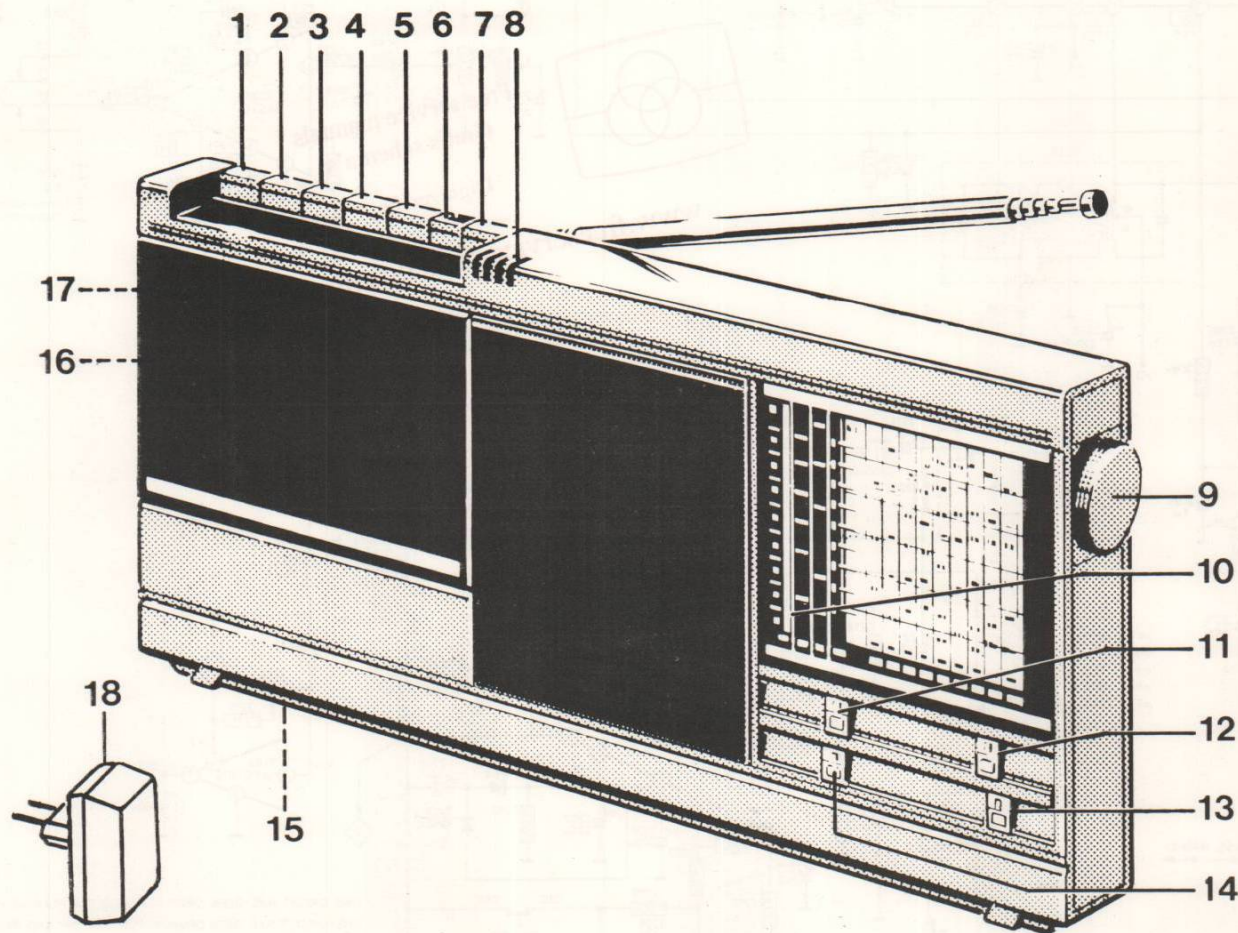
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

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

(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.



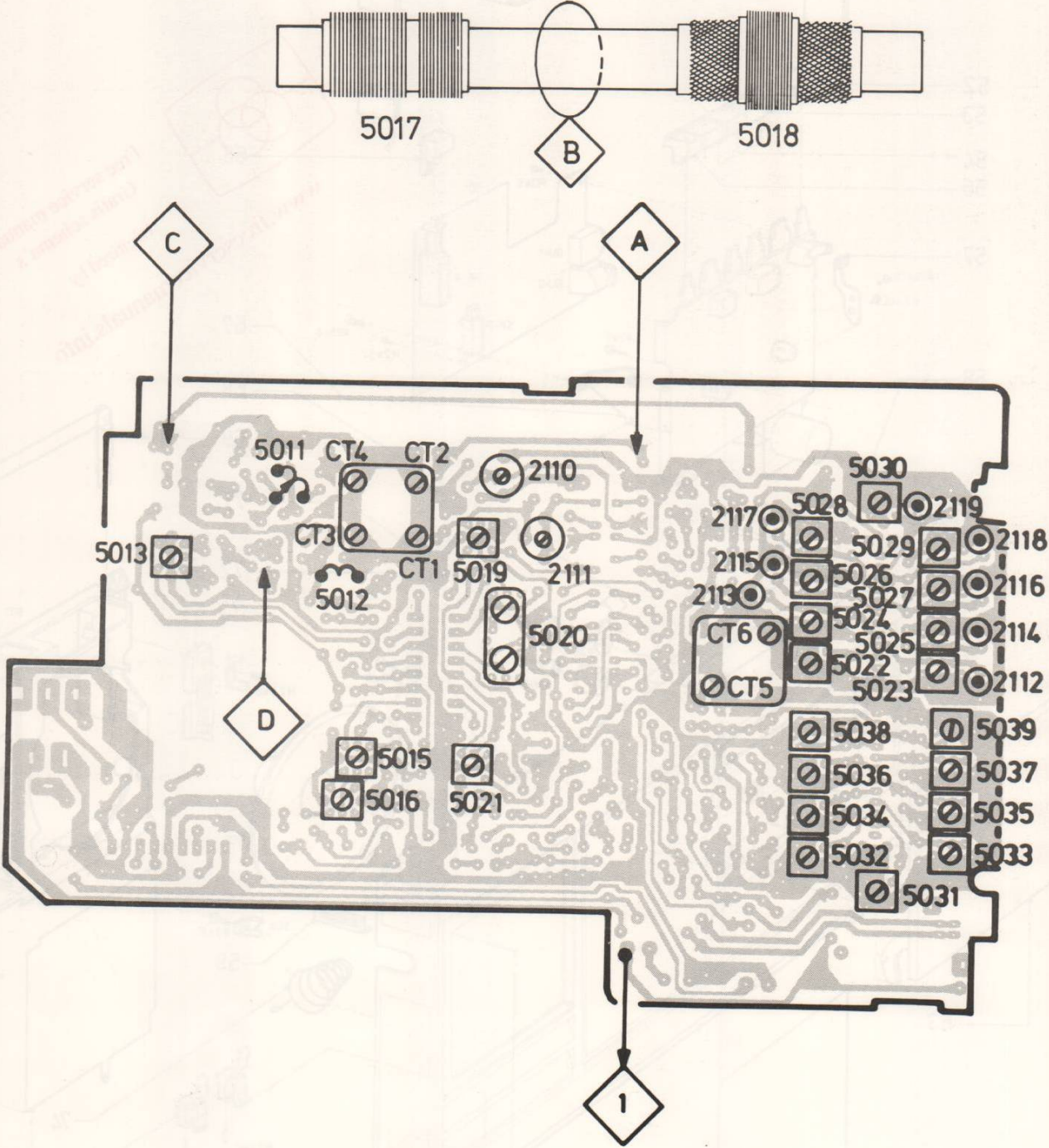


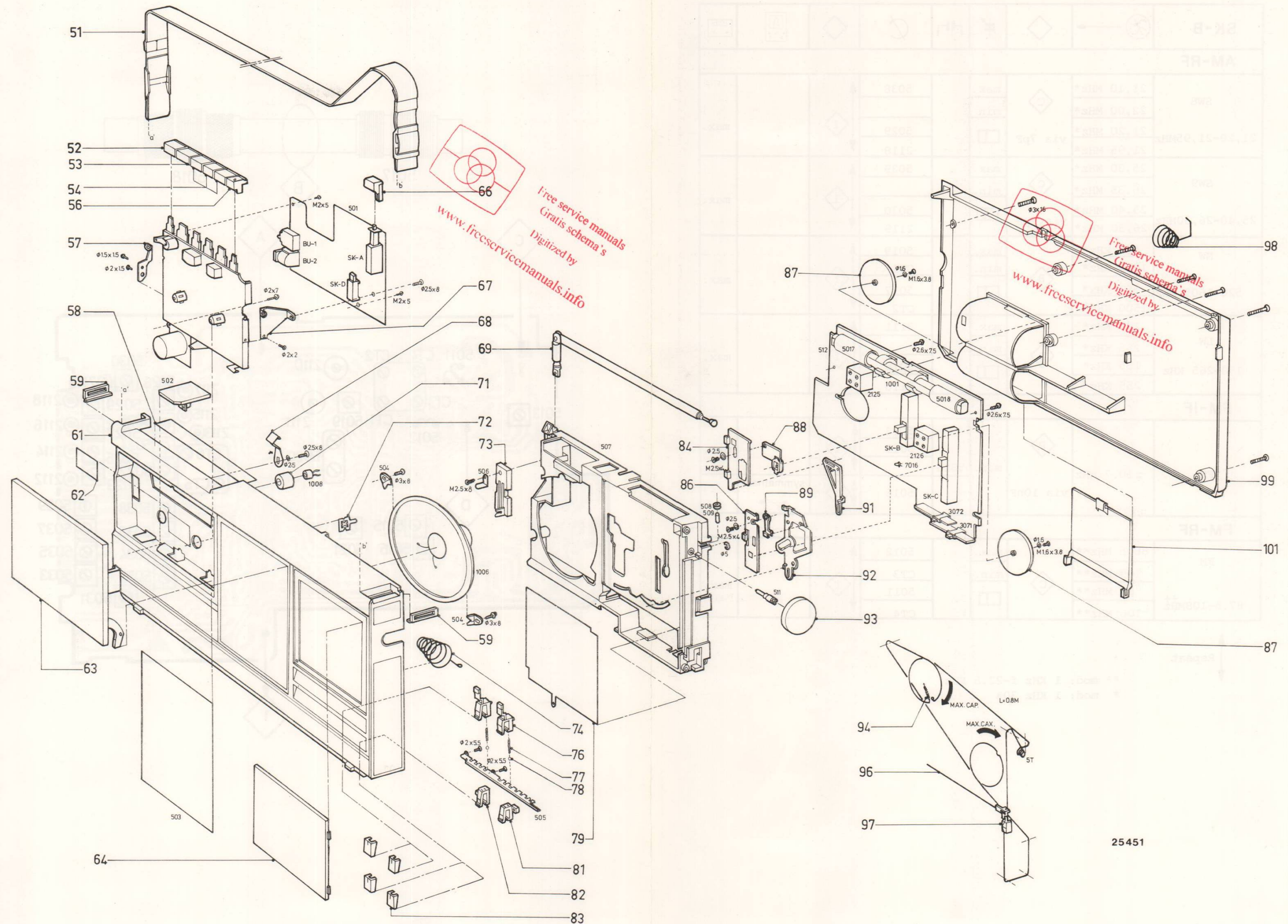
CS 8 898

SK-B									
AM-RF									
SW8 21,20-21,95MHz	21,10 MHz*		max.		5038			max.	
	22,00 MHz*		min						
	21,20 MHz*				5029				
	21,95 MHz*				2118				
SW9 25,40-26,30MHz	25,30 MHz*		max.		5039			max.	
	26,35 MHz*		min.						
	25,40 MHz*				5030				
	26,30 MHz*				2119				
MW 520-1605 KHz	512 KHz*		max.		5019			max.	
	1635 KHz*		min.		CT1				
	550 KHz*				5017				
	1500 KHz*				CT2				
LW 150-265 KHz	147 KHz*		max.		2111			max.	
	265 KHz*		min.						
	155 KHz*				5018				
	255 KHz*				2110				
FM-IF									
FM	≈ 10.7 MHz		min.	via 10nF	5013			max.	
					5015				
					5016				
				5016		symmetrical			
FM-RF									
FM 87.5-108MHz ⁺⁺	86,5 MHz**		max.		5012			max.	
	109 MHz**		min.		CT3				
	88 MHz**				5011				
	106 MHz**				CT4				

Repeat

** mod: 1 KHz f-22.5 KHz
* mod: 1 KHz 30%





This diagram illustrates the exploded view of a mechanical assembly, likely a motor or actuator. The components are numbered 151 through 226. Key parts include a central motor housing (222), a base plate (173), and various mounting brackets (e.g., 151, 152, 153, 154, 155, 156, 157, 158, 159, 161, 162, 163, 164, 166, 167, 168, 169). The assembly is secured with numerous screws and bolts, with specific sizes indicated by callouts such as M2x2.8, M2x3.5, M2x4.3, M2x5, M2x7, M2x16, M2x2, M2x2.2, M2x2.5, M2x3, M2x3.2, M2x6, M1.7x1, M1.7x2.2, M1.7x3.2, M1.7x3.5, M1.7x4, M1.7x5, M1.7x25, and M1.7x32. Other components include gears (192, 193, 194, 201, 202, 208, 209), a pulley (217), and various linkages and levers (e.g., 171, 172, 174, 176, 177, 178, 179, 181, 182, 183, 184, 186, 187, 188, 189, 191, 196, 197, 198, 200, 203, 204, 206, 207, 210, 211, 212, 213, 214, 215, 216, 218, 219, 220, 221, 223, 224, 225, 226). The diagram uses dashed lines to show the assembly sequence and alignment of the parts.

-C-					-R-					
2110,2111	4822	125	50045	Cap.trim.	3071	4822	105	10876	Potm.slide	
2112,2117	4822	125	50198	Cap.trim.	3072	4822	105	10875	Potm.slide	
2118,2119	4822	125	50229	Cap.trim.	3214	4822	100	20645	Carb. 100EB	
2126	4822	125	20289	Cap.variable	-IC-					
2125	4822	125	20288	Cap.variable						
-L-					7036	4822	209	70674	BA525	
5001	4822	152	20547	Inductor choke	7401	4822	209	81896	TA7137P-ST	
5003	4822	157	51502	Inductor 47UH	7404	4822	209	50107	UPC1470H	
5004	4822	157	51499	Inductor 2.2UH	7035	4822	209	80967	UPC1018C	
5005	4822	158	10467	Inductor choke	-D-					
5017	4822	156	31005	MW ANT						
5018	4822	156	30942	LW ANT	4822 130 34655 IS2076					
5019	4822	156	31004	L10						
5022	4822	156	30872	SW-1 ANT						
5023	4822	156	30873	SW-2 ANT						
5024	4822	156	30874	SW-3 ANT						
5025	4822	156	30875	SW-4 ANT	4822 130 31232 BA317					
5026	4822	156	30876	SW-5 ANT						
5027	4822	156	30878	SW-6 ANT	4822 130 31274 TLR124					
5028	4822	156	30939	SW-7 ANT						
5029	4822	156	30943	SW-8 ANT	4822 130 31438 IN4001					
5030	4822	156	30944	SW-9 ANT						
5031	4822	156	30945	SW OSC	4822 130 31881 BZX79-C3VO					
5032	4822	156	30885	SW-1 OSC						
5033	4822	156	30884	SW-2 OSC	-TS-					
5034	4822	156	30883	SW-3 OSC						
5035,5036	4822	156	30882	SW-4 OSC						
5037	4822	156	30881	SW-5 OSC						
5038,5039	4822	156	30879	SW-6 OSC						
5002	4822	157	51498	Inductor	4822 130 41907 2SK54B					
5010	4822	153	10367	FM filter						
5011	4822	156	30871	FM RF Coil						
5012	4822	157	51497	FM OSC						
5013	4822	153	50211	FM IFT						
5014	4822	242	70473	FM Cer.filter	4822 130 44195 1502C					
5015	4822	153	50213	FM RAT DET Pri						
5016	4822	153	50214	FM RAT OET Sec	4822 130 44197 1602E					
5020(-/00)	4822	242	70748	AM Cer. filter						
(-/01)	4822	242	70702	AM Cer. filter	4822 130 44196 1402E					
5021	4822	156	30886	AM DET						
5040	4822	157	51687	Axial Inductor	4822 130 41559 2SC941TM-0					
				4822 130 41735 2SC1923-R						
				-MISCELLANEOUS-						
				SK-A	4822	277	21155	Radio/tape SW		
				SK-B	4822	276	40302	Band SW		
				SK-C	4822	276	40321	SW1-SW9		
				SK-D	4822	277	21148	Recording SW		
				BU-1	4822	267	30446	DC socket		
				BU-2	4822	267	30468	Jack		
				(-/00)	4822	272	10253	AC/DC Adapter		
				(-/01)	4822	272	10254	AC/DC Adapter		
				1001	4822	526	10122	Ferrite bar		
				1006	4822	240	50242	Speaker 8Ω		
				1008	4822	242	30105	Mic		

(GB)
WARNING

ESD



All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

(F)
ATTENTION

ESD



Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(NL)
WAARSCHUWING

ESD



Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(D)
WARNUNG

ESD



Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren.
Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

(I)
AVVERTIMENTO

ESD



Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.