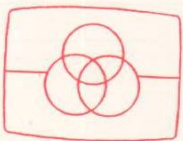


Stereo radio recorder D8274

00/02/05

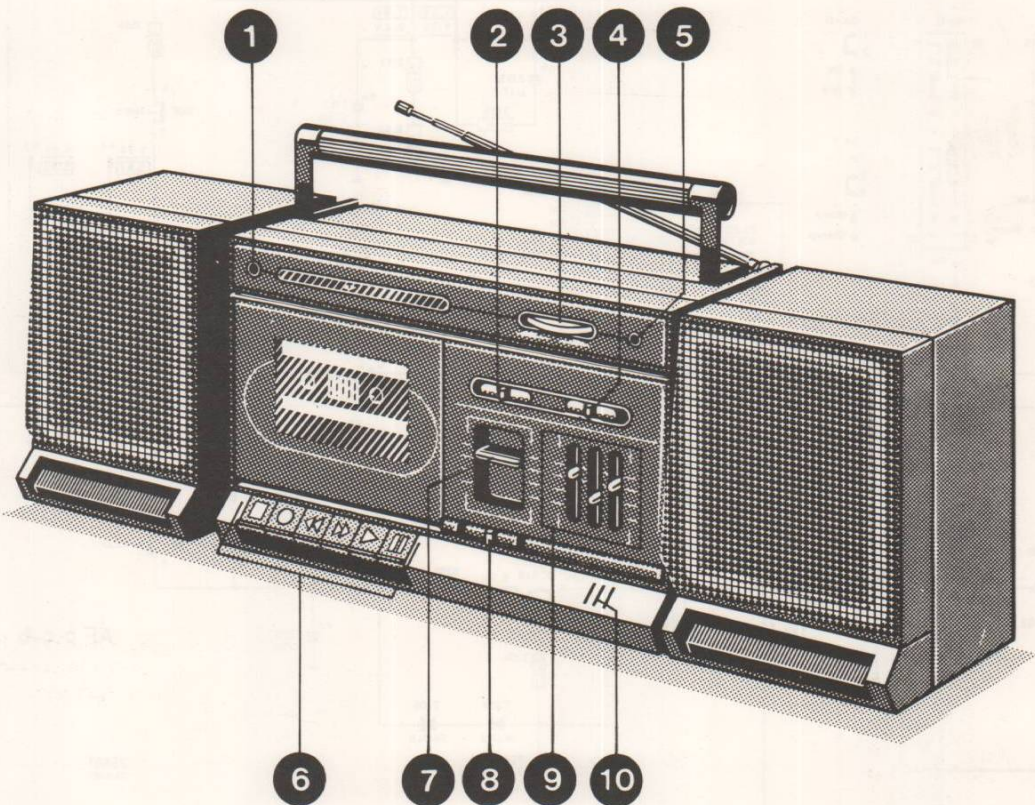
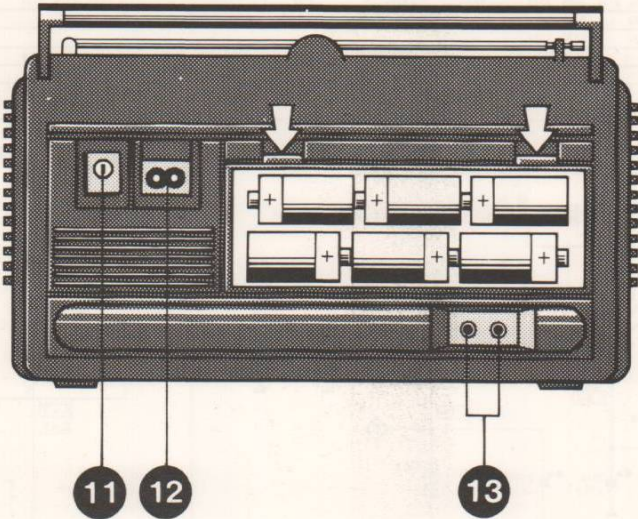


Free service manuals
Gratis schema's
Digitized by

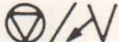
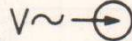
www.freeservicemanuals.info

For repair information of the cassette mechanism see
Service Manual of "Recorders tape deck RX-4"

Service Manual



Connections and controls:

1		BU-1		SK-D	
2	LW/MW/SW/FM	SK-B		SK-D	
3		2100			
4	Mono/Stereo	SK-F	7		3415
5	Stereo indicator	7181	8	Tape/Radio	SK-A
6	Tape deck button :		9	Graphic equalizer	3404 ÷ 3406
		SK-D	10		4001
		SK-C,SK-D	11	Not in use	SK-G
		SK-D	12		BU-4
			13		L,R BU-2,BU-3

Specifications:

	120/220/240V 50/60Hz	Tape speed	4.76cm/sec ± 3%
	Voltage selection : Serviceable (Set at 220V)	Wow and flutter	<0.35%
	: 9V (6 × R14)	Signal to noise ratio	>40dB >22dB (AM rec)
	$\sim 2 \times 1.4W-1dB$ } 4Ω $\sim 2 \times 2.0W-1dB$ } (d=10%)	Freq response :	250-6300Hz
AM IF	468KHz	(within 8dB)	
FM IF	10.7MHz	Equalizer control	at 100Hz-2KHz-10KHz -6dB to 6dB
FM	87.5-108MHz		
LW	148.5-283.5KHz		
MW	526.5-1606.5KHz		
SW	5.95-17.9MHz		



SK...						
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AM-IF

MW	468KHz $\Delta f=10\text{KHz}$ via 33nF		min.	5153 5154		max.
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AM-RF

MW *	1635KHz		min.	CTc		max.
526.5-1606.5KHz	560KHz			5122a		
	1500KHz			CTd		
LW *	147KHz		max.	5130		max.
148.5-283.5KHz	160KHz			5122b		
SW * @	5.8MHz		max.	5131		max.
5.95-17.9MHz	18.1MHz		min.	2132		
	6.2MHz			5124		

* Mod 1KHz 30% @ via 9.1 pF

FM-IF

FM	$\approx 10.7\text{MHz}$ $\Delta f=300\text{KHz}$ (50Hz) via 22nF		min.	5155		
----	--	--	------	------	--	--

FM-RF

FM α	87.35MHz $\pm$ Mod 1KHz $\Delta f=22.5\text{KHz}$		max.	5102 5101		max.
87.5-108MHz	108.2MHz $\pm$ Mod 1KHz $\Delta f=22.5\text{KHz}$		min.	CTb CTa		

α via 10nF + 15 Ω $\pm$ $\pm 0.15\text{MHz}$

Stereo decoder

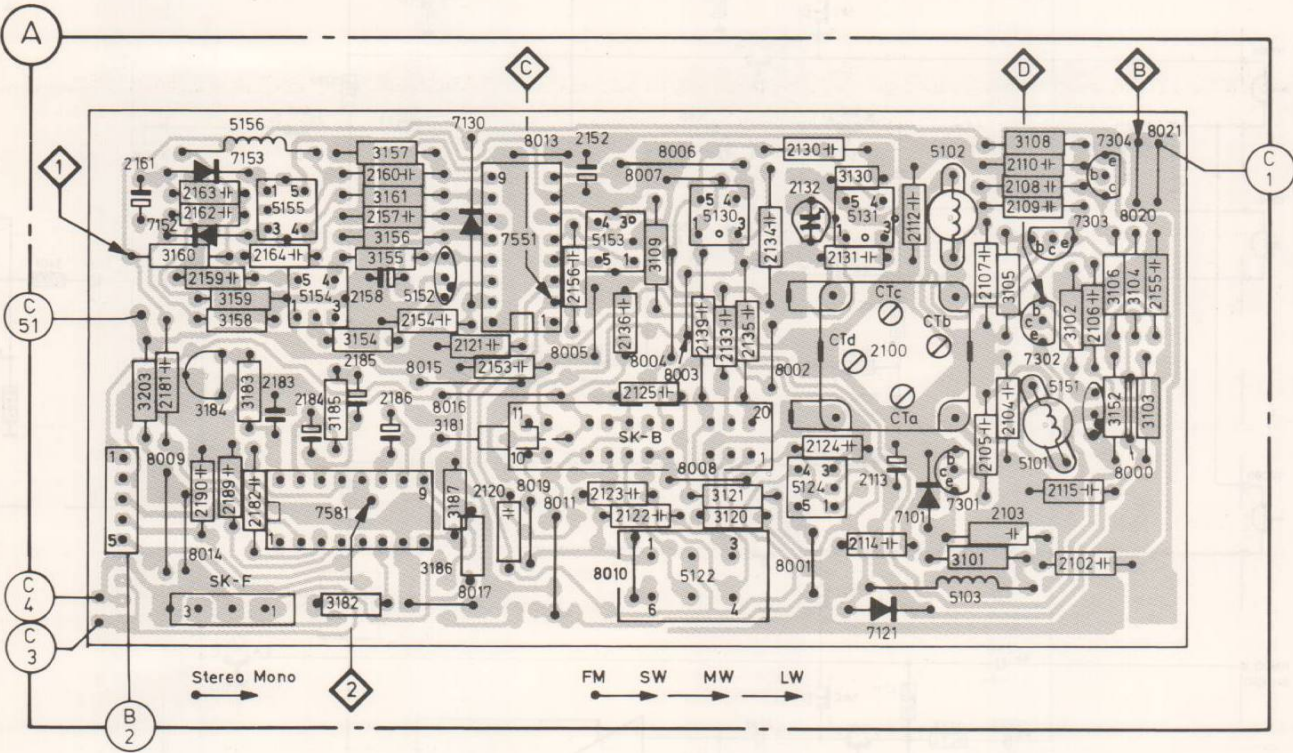
SK....		Counter
FM STEREO	3184	19 $\pm$ 0.2KHz

Repeat

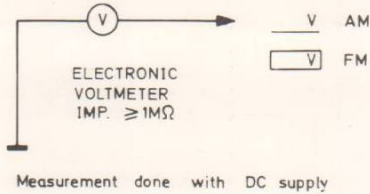
"Bei notwendigem Abgleich ist das Gert auf die gesetzlich vorgeschriebenen Eckfrequenzen abzugleichen".

MISC	7152 8014 SKB 5156 5155	5152 8016 7130 7551	8005 5153 SKA 5130	8002 5131 7101 5102 5103	7302 5151 7304 8000
	8009	7153 5154 7581 8015	8017 8013 8011 8004 8006 5122	8001 7121 7301	5101 7303 8021
			8019 8010 8007 8003 8008	5124	8020
CAP.	2161 2163 2159 2164 2184	2158 2160 2154 2153	2152 2136 2122 2139 2134	2130 2131 2112 2103	2105 2110 2106 2102 2155
	2162 2190 2183	2185 2157 2121 2120	2156 2125	2133 2135 2132 2113 2100	2107 2108 2115
	2181 2189 2182	2186	2123	2124 2114 CTa + CTd	2104 2109
RES.	3203 3160 3159 3183 3182	3154 + 3157 3186	3109 3121	3130	3105 3108 3102 3106 3104
	3184 3158	3185 3161 3181	3120		3101 3152 3103
		3187			

7301	e - 5.1 V	7302	e - 5.8 V	7303	e - 5.1 V	7304	e - 0 V	0 V
	b - 5.8 V		b - 5.1 V		b - 5.8 V		b - 0 V	0.4 V
	c - 5.8 V		c - 0.8 V		c - 5.8 V		c - 1.4 V	-

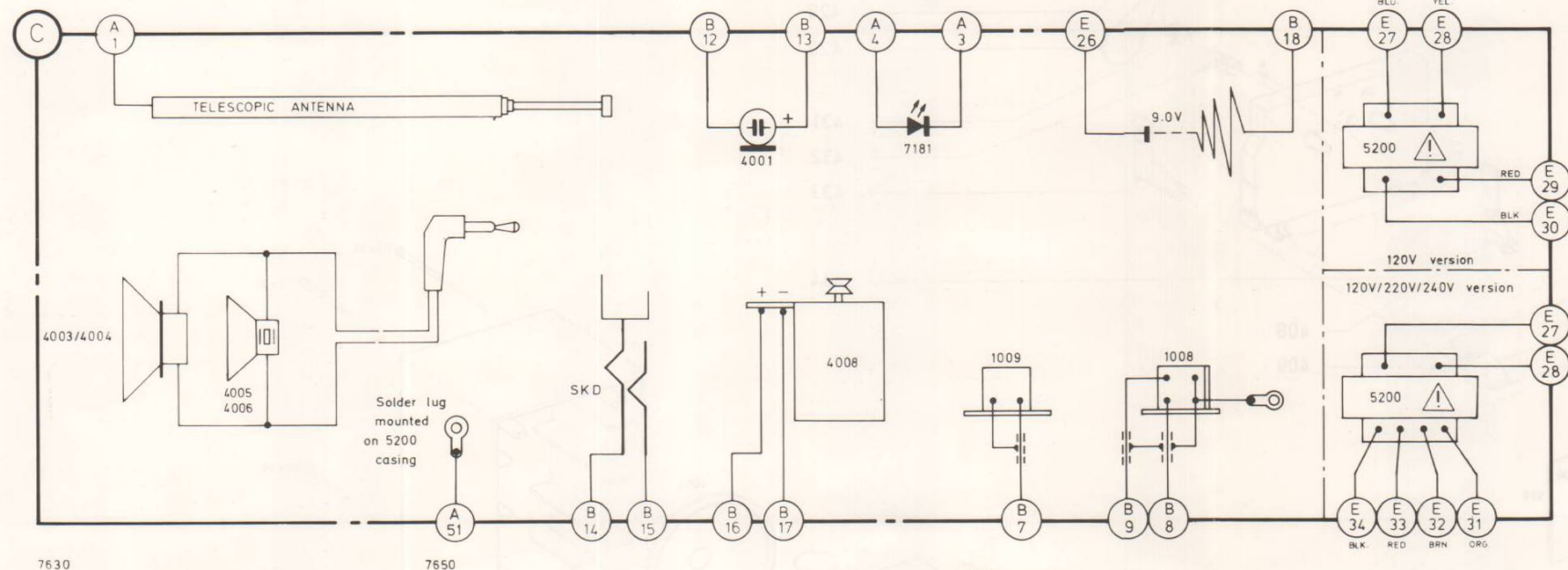
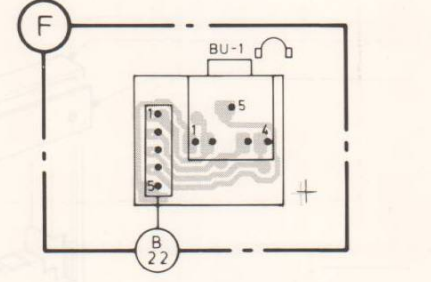
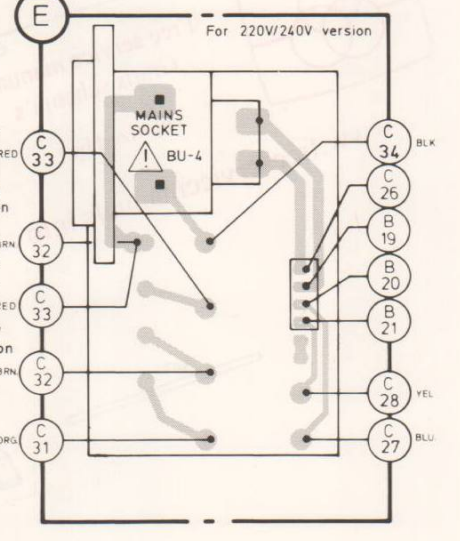
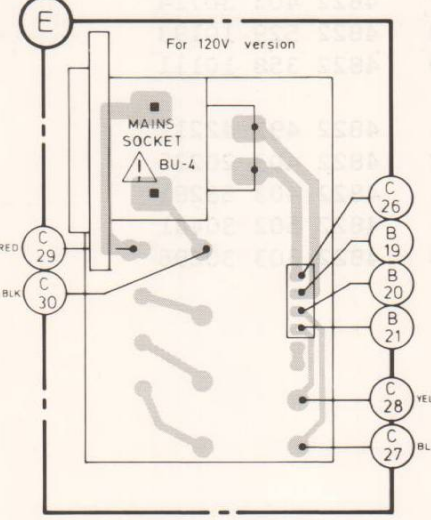
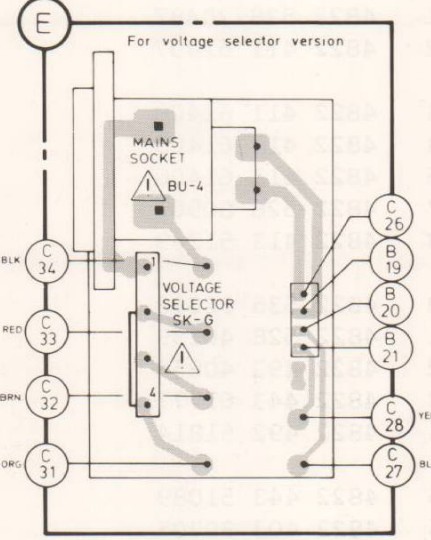
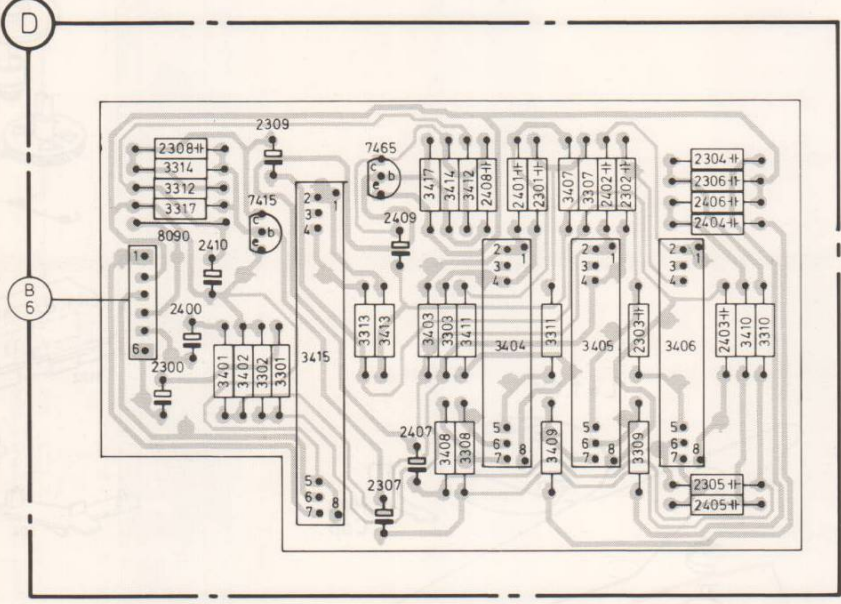
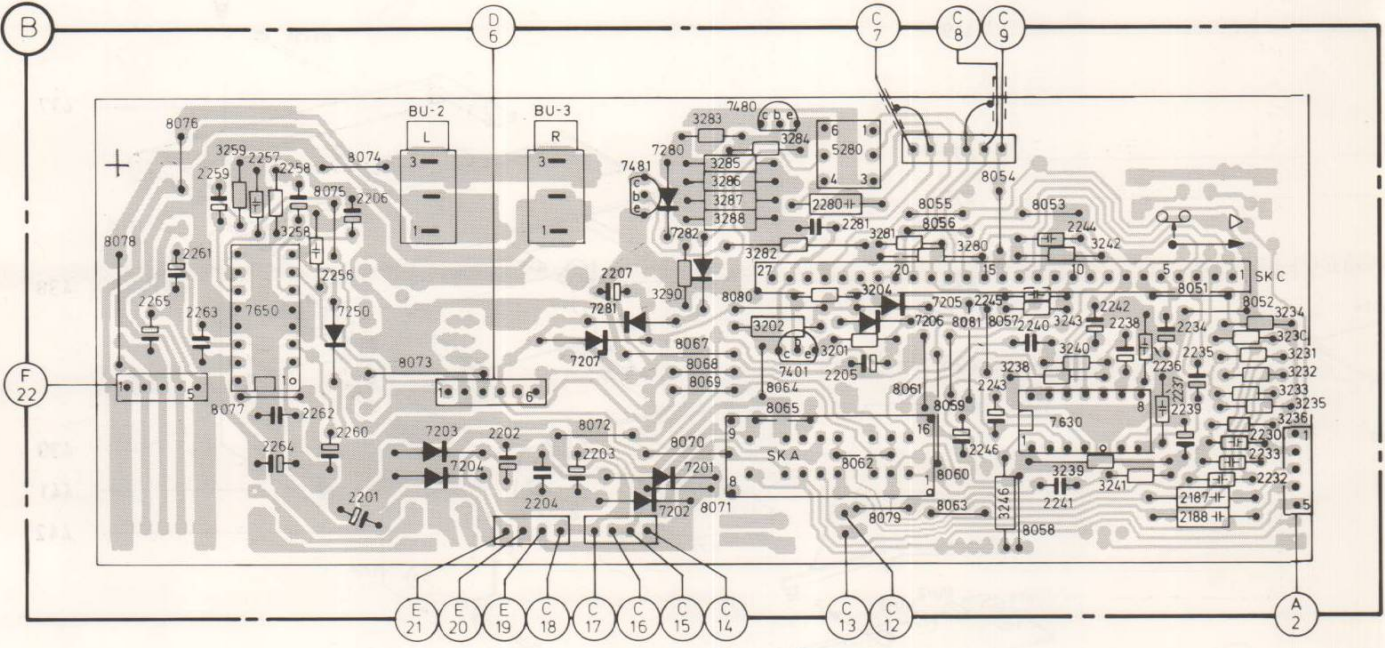


7551	1 - 1.4 V	0.1 V	7581	1 - 5.9 V	5.9 V
	2 - 0.7 V	1.4 V		2 - 1.4 V	1.4 V
	3 - 0.7 V	1.4 V		3 - 1.4 V	1.4 V
	4 - 5.8 V	5.8 V		4 - 2.5 V	2.5 V
	5 - 4.4 V	5.4 V		5 - 2.5 V	2.5 V
	6 - 0.7 V	0.7 V		6 - 4.7 V	LED off 4.8 V
	7 - 5.8 V	5.8 V			0.8 V LED on
	8 - 5.8 V	5.8 V		7 - 0 V	0 V
	9 - 4.8 V	5.8 V		8 - 0.4 V	0.4 V
	10 - 5.1 V	5.8 V		9 - 2.2 V	Mono 2.2 V
	11 - 1.4 V	1.4 V			0.1 V Stereo
	12 - -	0.1 V		10 - 1.3 V	1.3 V
	13 - 0.7 V	0.7 V		11 - 1.3 V	1.3 V
	14 - 5.6 V	5.6 V		12 - -	-
	15 - -	1.4 V		13 - 1.3 V	1.3 V
	16 - 0 V	0 V		14 - 1.3 V	1.3 V
				15 - 1.3 V	1.3 V
				16 - 1.8 V	0.4 V

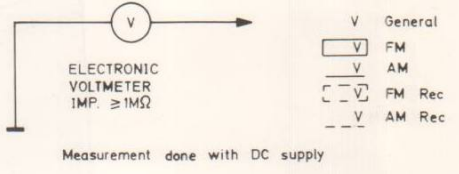


26604
25/6/87

MISC.	8078 4004	8077 7650 8075 8074	7203 7204	BU 3	7280 7481 7282 8080	SK A 8062 8061	7205 8081	7630	1009 8051	SK C	1008	5200	8090	7415	7465	BU 4	BU 4 BU 1
	4003 8076	4006 7250	BU 2	8072 7281 SK D 8067-8071 8064	8079 8063 4008	8053 7181	8052									SK G	
CAP.	2265 2261 2259 2257 2258 2256 2206	2202 2204 2203 2207		2280 2281	2246 2245 2240 2244 2238 2236 2234 2188 2230	2300 2308 2410 2309	2307 2407 2408 2401 2301 2402 2302	2304 2404 2305									
	2263	2264 2262 2260		2205	2243 2241 2242	2237 2235	2233	2400	2409			2303	2306 2403				
		2201				2239 2187	2232						2406 2405				
RES.	3259 3258			3283 3285 3288 3282	3201 3281	3280 3238 3243 3242 3241	3230-3236	3314 3401 3402 3301 3415 3313	3414 3412 3308 3407 3307 3309 3406	3410 3310							
				3290 3286	3284	3204	3246 3239 3240	3312	3302	3413 3403 3408 3303 3404 3311 3405							
				3287	3202			3317		3417 3411	3409						



7630	7650	9 - 0 V
1 - 0 V	1 - -	9 - 1.3 V
2 - -	2 - 4.6 V	10 - -
3 - -	3 - 8.7 V	11 - 3.2 V
4 - 3.2 V	4 - 0 V	12 - -
5 - -	5 - 0 V	13 - 6.3 V
6 - 1.3 V	6 - 0.6 V	14 - 6.3 V
7 - 0.1 V	7 - -	
8 - 0.1 V	8 - 8.9 V	



7415/7465	7401
e - 0 V	e - 6.3 V
b - 0.6 V	b - 7.0 V
c - 4.6 V	c - 9.0 V

7480	7481
e - [0.1 V] - 0 V	e - [0 V] - 0 V
b - [] - 0.2 V	b - [0 V] - 0.9 V
c - [9.0 V] - 9.0 V	c - [] - 0.2 V

26605
29/5/87

401 4822 443 51088
402 4822 450 61102
403 4822 492 42213
404 4822 443 62261
406 4822 450 61101

437 4822 498 40554
438 4822 404 20482
439 4822 290 80313
441 4822 492 51813
442 4822 492 42225

407 4822 450 81079
408 4822 403 53279
409 4822 410 26093
411 4822 528 20487
412 4822 411 61407

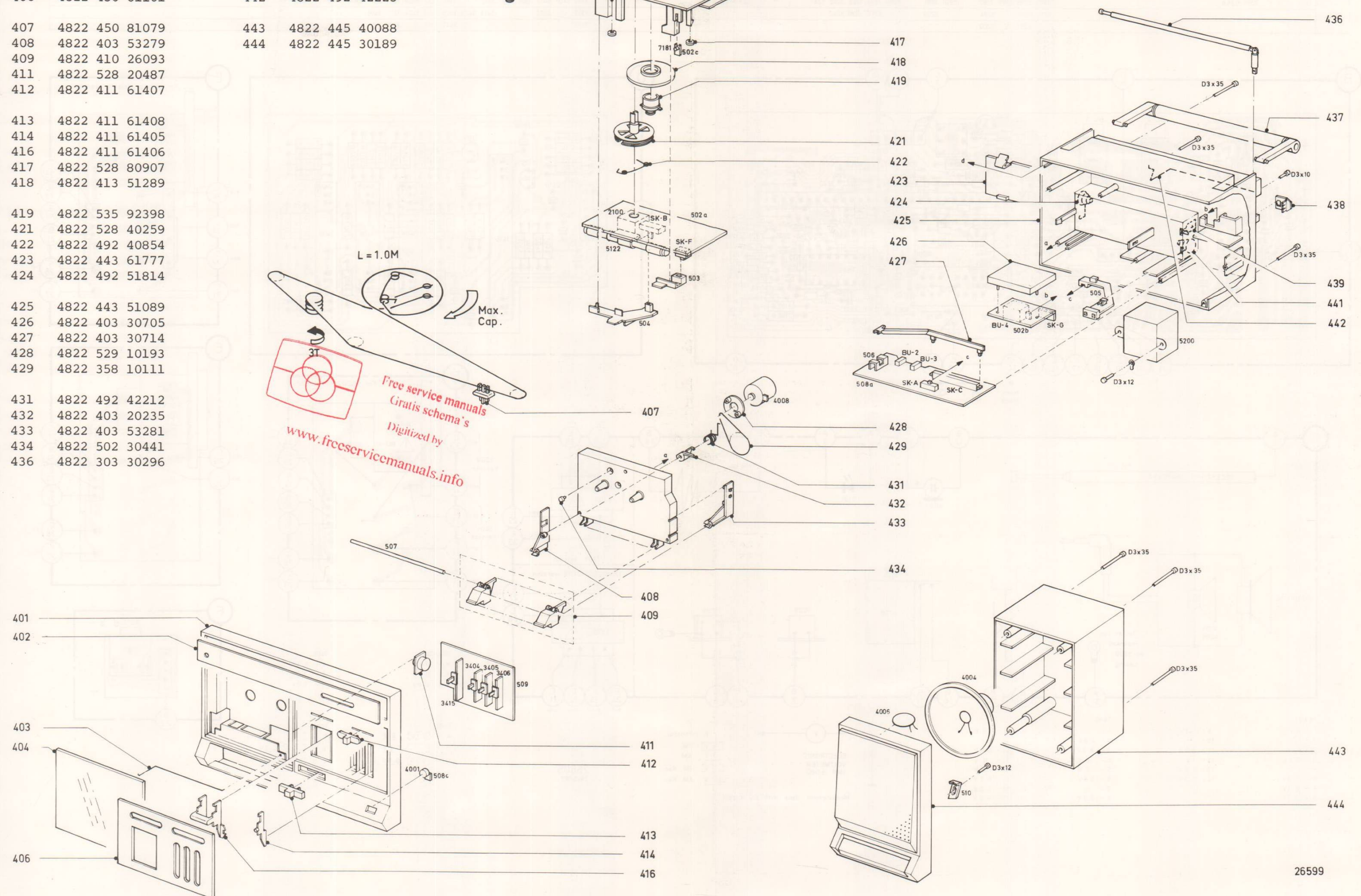
443 4822 445 40088
444 4822 445 30189

413 4822 411 61408
414 4822 411 61405
416 4822 411 61406
417 4822 528 80907
418 4822 413 51289

419 4822 535 92398
421 4822 528 40259
422 4822 492 40854
423 4822 443 61777
424 4822 492 51814

425 4822 443 51089
426 4822 403 30705
427 4822 403 30714
428 4822 529 10193
429 4822 358 10111

431 4822 492 42212
432 4822 403 20235
433 4822 403 53281
434 4822 502 30441
436 4822 303 30296



Adjustment	Cassette	Recorder in position	Measure on	Read on	Adjust with	Adjust to
Tape speed	3150 Hz of SBC420*	Play	BU-1	Wow and flutter meter	Preset in motor	**a
Azimuth R / PB head	8 KHz of SBC420*	Play	BU-1	mV - meter	Left screw R / PB head	Max. output

* SBC420: 4822 397 30071.

**a The maximum permissible speed deviation is 3%.
Moreover, the wow and flutter value can be read.
This value should not exceed 0.3%

GB WARNING

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.

ESD



NL WAARSCHUWING

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.

F ATTENTION

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 enfilier 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.

D WARNUNG

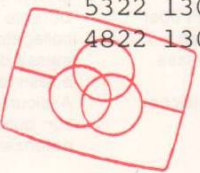
Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).
Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.
Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential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

I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridotta 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.

	Carbon film 0.2 W CR16	70°C	5%
	Carbon film 0.33 W CR25	70°C	5%
	Carbon film 0.5 W CR37	70°C	5%
	Standard film 0.5 W SFR16T	70°C	5%
	Standard film 0.4 W SFR25	70°C	5%
	Metal film 0.6 W MRS25	70°C	5%
	Safety resistor		
C Chip component			
	Plate ceramic Tuning < 120 pF Others	2% -20/+80%	
	Tubular ceramic		
	Polystyrene film / foil	1%	
	Polyester Film / foil	10%	
	Mylar	10%	
	Electrolytic		

* a = 2.5 V
b = 4 V
c = 6.3 V
d = 10 V
e = 16 V
f = 25 V
g = 40 V
h = 63 V
j = 100 V
l = 125 V
m = 150 V
n = 160 V
q = 200 V
r = 250 V
s = 300 V
t = 350 V
u = 400 V
v = 500 V
w = 630 V
x = 1000 V
A = 1.6 V
B = 6 V
C = 12 V
D = 15 V
E = 20 V
F = 35 V
G = 50 V
H = 75 V
I = 80 V

-Miscellaneous-							
1008	R/P head	4822 249 10334		2100	Polyvaricon	4822 125 20286	
1009	Erase head	4822 249 20072		2105	Tub N750 24p	4822 122 10444	
4001	E-mic	4822 242 10046		2132	Trimmer 1lp	4822 125 50198	
4003,4004	Speaker 4Ω	4822 240 30457		2133	Tub N750 20p	4822 122 10443	
4005,4006	Buzzer	4822 240 30444		2135	PP Cap 300p	4822 121 51162	
4008	Motor 9V	4822 361 20977					
BU-1	Socket, head	4822 267 30876		5101,5102	FM RF coil	4822 156 30947	
BU-2,BU-3	Socket, speaker	4822 267 20224		5103	FE Ind. 0.47uH	4822 157 50967	
BU-4	Socket, mains Δ	4822 265 20287		5122	MW-LW Ant coil	4822 158 60564	
SK-A	Radio/Tape	4822 277 30633		5124	SW Ant coil blk	4822 156 30811	
SK-B	Bandswitch	4822 277 21133		5130	MW Osc coil br.	4822 156 11045	
SK-C	Rec switch	4822 277 21168		5131	SW Osc coil blue	4822 156 10689	
SK-F	Mono/Stereo	4822 277 20814		5151,5152	Filter 10.7MHz	4822 242 70249	
				5153,5154	IFT AM Yel	4822 156 10726	
3184	Preset 10K	4822 100 20166		5155	FM ratio det	4822 157 52693	
3404	Potm 100KB × 2	4822 105 10948		5156	Ind. 15uH	4822 157 50965	
3405	Potm 200KB × 2	4822 105 10949		5200	Transfo-mains Δ	4822 146 21287	
3406	Potm 20KB × 2	4822 105 10947		5280	Erase Osc coil	4822 157 53021	
3415	Potm 50KA × 2	4822 105 10946		 			
				2SC1047C	4822 130 60163		
1N4148	4822 130 30621			2SA838B	4822 130 60093		
BA316	4822 130 30302			2SC1359B	4822 130 60092		
CQY54A/2 Red	4822 130 31128			TBC548A	4822 130 40948		
1N4002	5322 130 30684			TBC548	4822 130 40938		
BZX79C6V8	4822 130 34278			1402D	4822 130 40937		
				BC337-40	4822 130 41344		
Free service manuals Gratis schema's Digitized by www.freesevicemanuals.info				BC546B	4822 130 44461		
				TEA5570	4822 209 81563		
				AN7411	4822 209 71321		
				AN7312	4822 209 70997		
				TA7769P	4822 209 70372		

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.

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.

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.