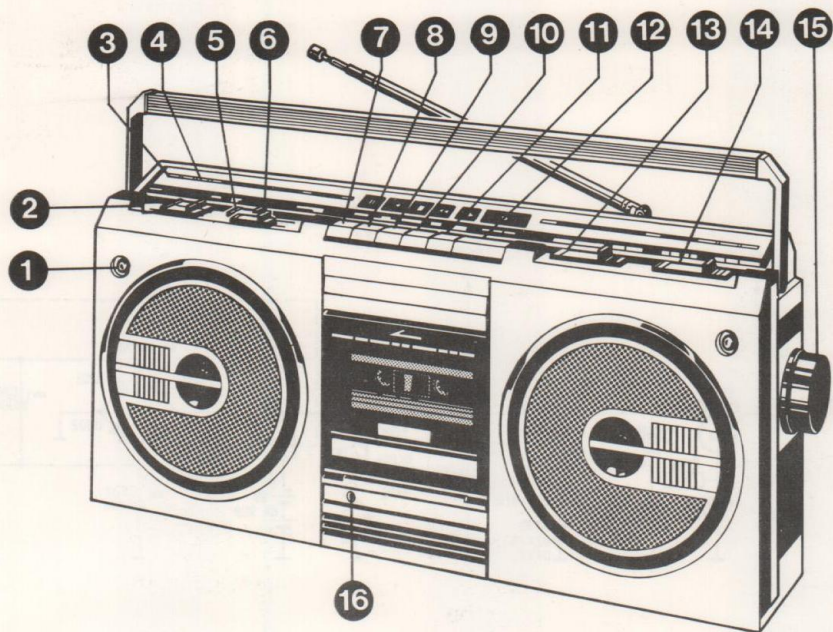


Service
Service
Service

For repair information of the cassette mechanism see Service Manual of "Recorders tape deck RT-1" and "Recorders tape deck RT-45".

Service Manual



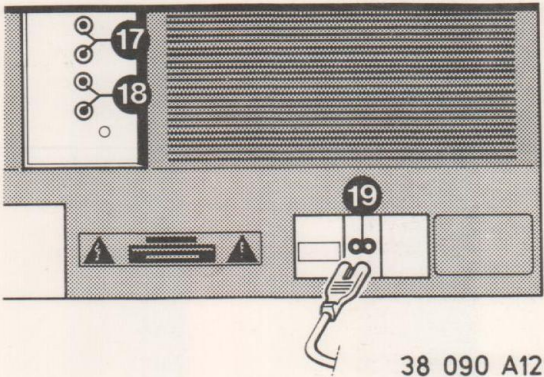
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CONNECTIONS AND CONTROLS

1.	„Electret mic”	Mi201	11.	„Rewind/review”	SK2
2.	„Volume control L/R”	R281/R231	12.	„Record”	SK2,SK210
3.	„Power indicator”	D182	13. FM-MW-LW-SW**	„Wave range selector”	SK101
4.	„Stereo indicator”	D181	14. Tape, Radio	„Mode selector”	SK201
5.	„Tone control L/R”	R280/R230	15.	„Tuning”	C101
6. mono-stereo-spatial	„Sound control”	R250	16.	„Headphone”	BU213
7.	„Pause”		17.	„Line in L/R”	BU210/260
8.	„Play”	SK2	18.	„Line out L/R”	BU230/280
9.	„Stop/Eject”		19.	„Mains inlet”	BU1/SK1
10.	„Fast forward/cue”	SK2			

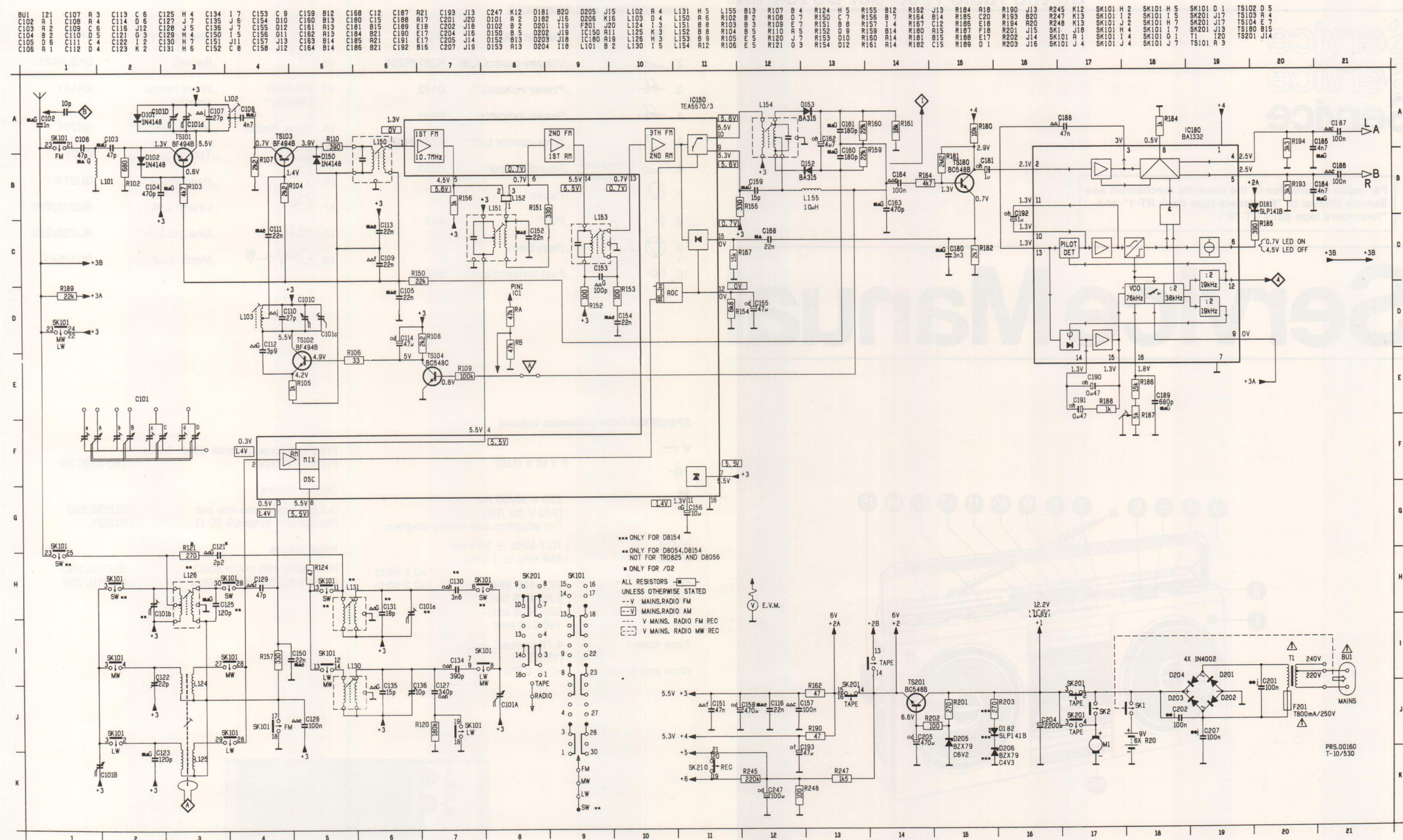
SPECIFICATION (minimum values)

V	9 V (6 × R20)	Freq. response (overall within 8 dB)	
		Ferro (FM-tape)	: 250-6300 Hz
	: 220 V 50/60 Hz : (240 V for /05) For adaption see wiring diagram	Output values	
		0-2.5 V adjustable line out	: BU230,280
		Headphone output/8-90 Ω	: BU231
IF-FM	: 10.7 MHz ± 90 kHz	Input values	
IF-AM	: 468 kHz ± 1 kHz	Recording 100 mV/≥50kΩ	BU210, 260
		Monitoring 300 mV/≥50kΩ	BU210, 260
FM	: 87.5-108 MHz		
SW	: 5.95-17.9 MHz		
MW	: 520-1605 kHz		
LW	: 150-255 kHz		
Tape speed	: 4.76 cm/sec. ± 2% (15-35°C)		
Wow and flutter	: ≤ ± 0.3%		



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Adjustment	Cassette	Recorder in position	Apply signal to	Measure on	Read on	Adjust with	Adjust to
Tape speed	3150 Hz of SBC420	PLAY Tape	—	BU230 (BU280)	Wow- and flutter meter	R motor	*a 4.76 cm/s
Azimuth R/P head	8 kHz of SBC420	PLAY Tape	—	BU230 (BU280)	mV-meter	Left screw R/PB head	Max. output + outp. L $\approx$ outp. R

*a The maximum permissible speed deviation is 2%. Moreover, the wow-and-flutter value can be read. This value should not exceed 0.3%.

SBC420= 4822 397 30071

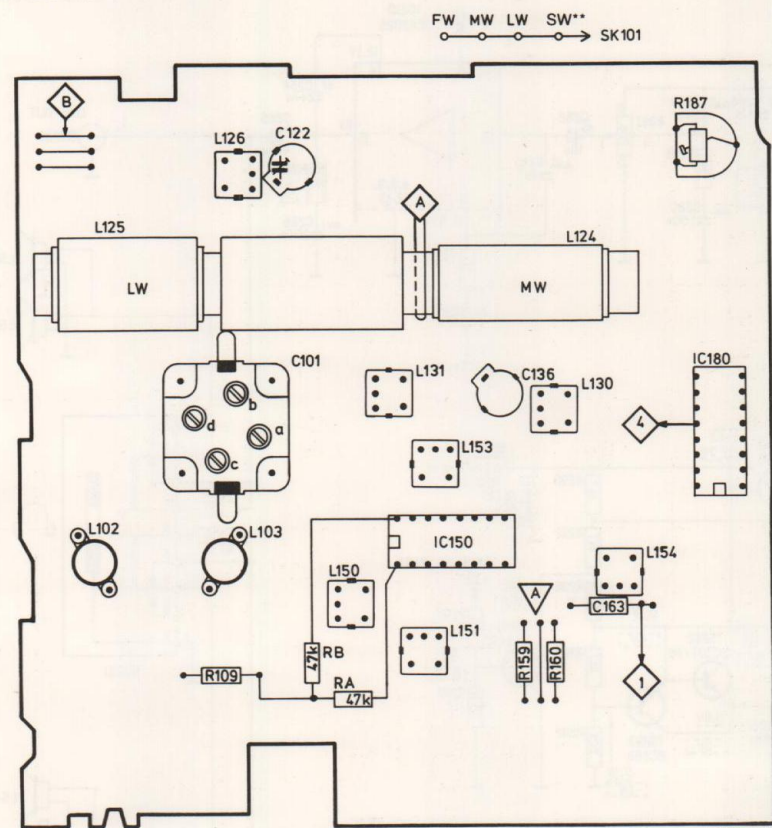


Fig. 3

GB

- 1 Adjust the "S"-curve for symmetry and max. linearity.
- 2 Open jumper ∇ . Connect R109 to RA and RB (2x 47k).
- 3 Close jumper ∇ . Remove RA and RB.

NL

- 1 Regel de "S"-kromme af op symmetrie en max. lineariteit.
- 2 Open brug ∇ . Verbindt R109 met RA en RB (2x 47k).
- 3 Sluit brug ∇ . Verwijder RA en RB.

I

- 1 Regolare per pendenza massima e per simmetria della curva ad "S".
- 2 Aprire il ponticello ∇ . Collegare R109 a RA e RB (2x 47k).
- 3 Chiudere il ponticello ∇ . Sopprimere RA e RB.

F

- 1 Adjuster la courbe en "S" pour un maximum de pente et de symétrie.
- 2 Ouvrir le pontet ∇ . Relier R109 à RA et RB (2x 47k).
- 3 Fermer le pontet ∇ . Eliminer RA et RB.

D

- 1 Die "S"-Kurve auf Symmetrie und maximale Linearität einstellen.
- 2 Brücke ∇ öffnen. R109 mit RA und RB (2x 47k) verbinden.
- 3 Brücke ∇ schliessen. RA und RB entfernen.

"Bei notwendigem Abgleich ist das Gerät auf die gesetzlich vorgeschriebenen Eckfrequenzen abzugleichen".

SK-101						
MW	468 kHz*		Max Cap	L151 L153		 Max
MW	1635 kHz*		Min Cap	C136		 Max
520-1605 kHz	560 kHz*			L124		
	1500 kHz*			C122		
LW 150-255 kHz	150 kHz* 200 kHz*		Max Cap	L130 L125		 Max
SW** 5.9 MHz ÷ 17.9 MHz	5.9 MHz*		Max Cap	L131		 Max
	17.9 MHz*		Min Cap	C101a		
	6.2 MHz*			L126		 Max
	17 MHz*			C101b		
FM	10.7 MHz $\Delta f = 300$ kHz (50 Hz)			L154 L150		 Max
FM 87.5-108 MHz	87.35 MHz Mod 1 kHz $\Delta f = 22.5$ kHz		Max Cap	L103***		 Max
	108 MHz Mod 1 kHz $\Delta f = 22.5$ kHz		Min Cap	C101c		
	87.35 MHz Mod 1 kHz $\Delta f = 22.5$ kHz		Max Cap	L102***		 Max
	108 MHz Mod 1 kHz $\Delta f = 22.5$ kHz		Min Cap	C101d		 Max

↑ Repeat-Herhalen-Répéter-Wiederholen-Repetera-Ricomminiare-Gentage
* Mod 1 kHz 30% AM

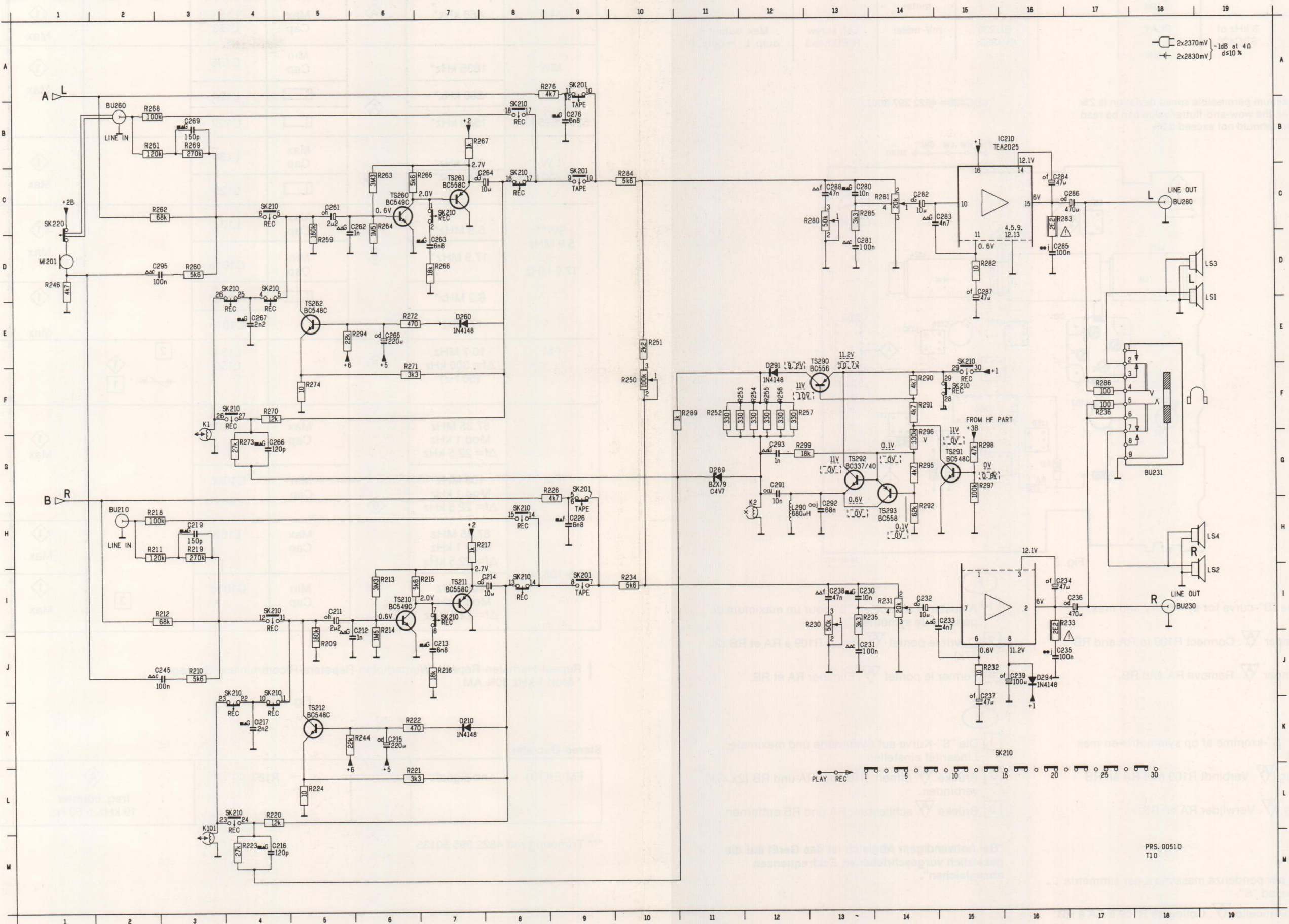
Fig. 4

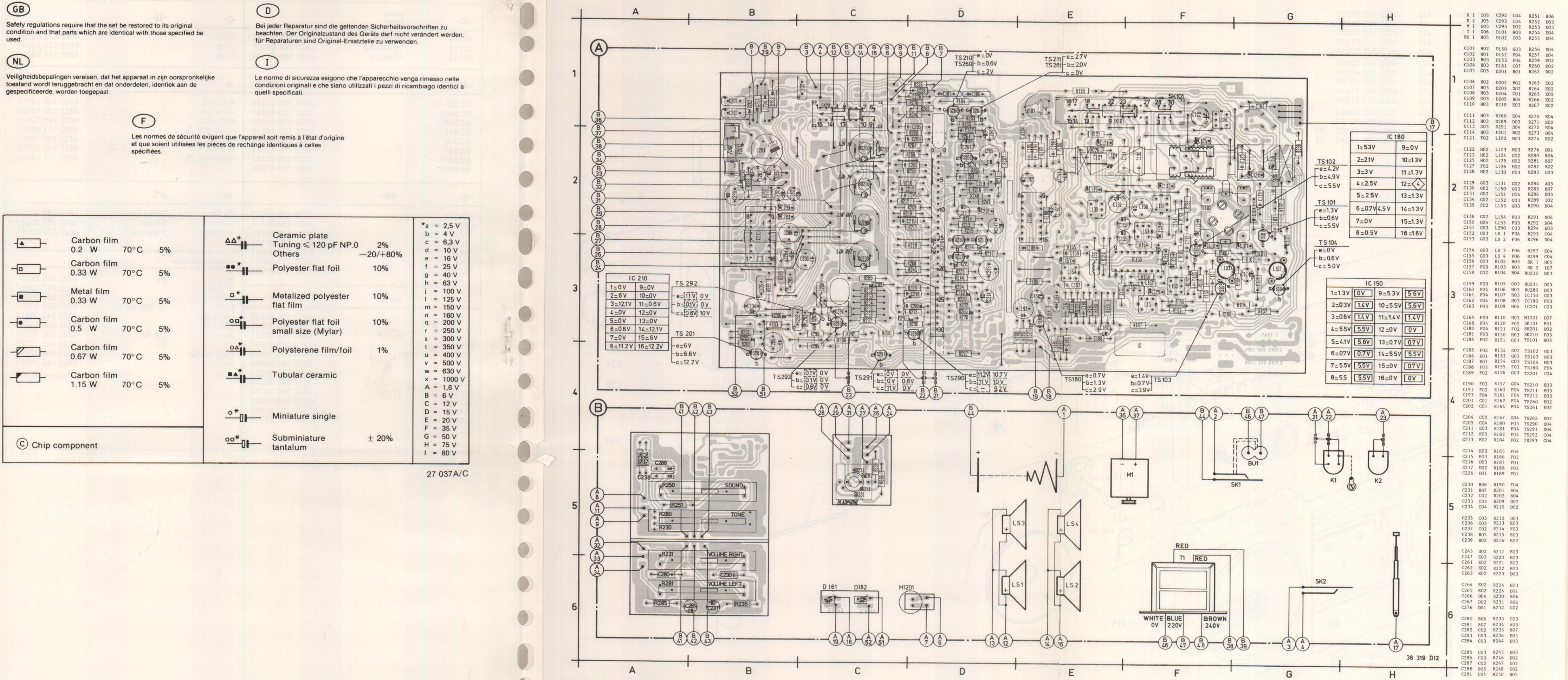
Stereo-Decoder

FM-SK101	no signal		R187	 freq. counter 19 kHz $\pm$ 50 Hz
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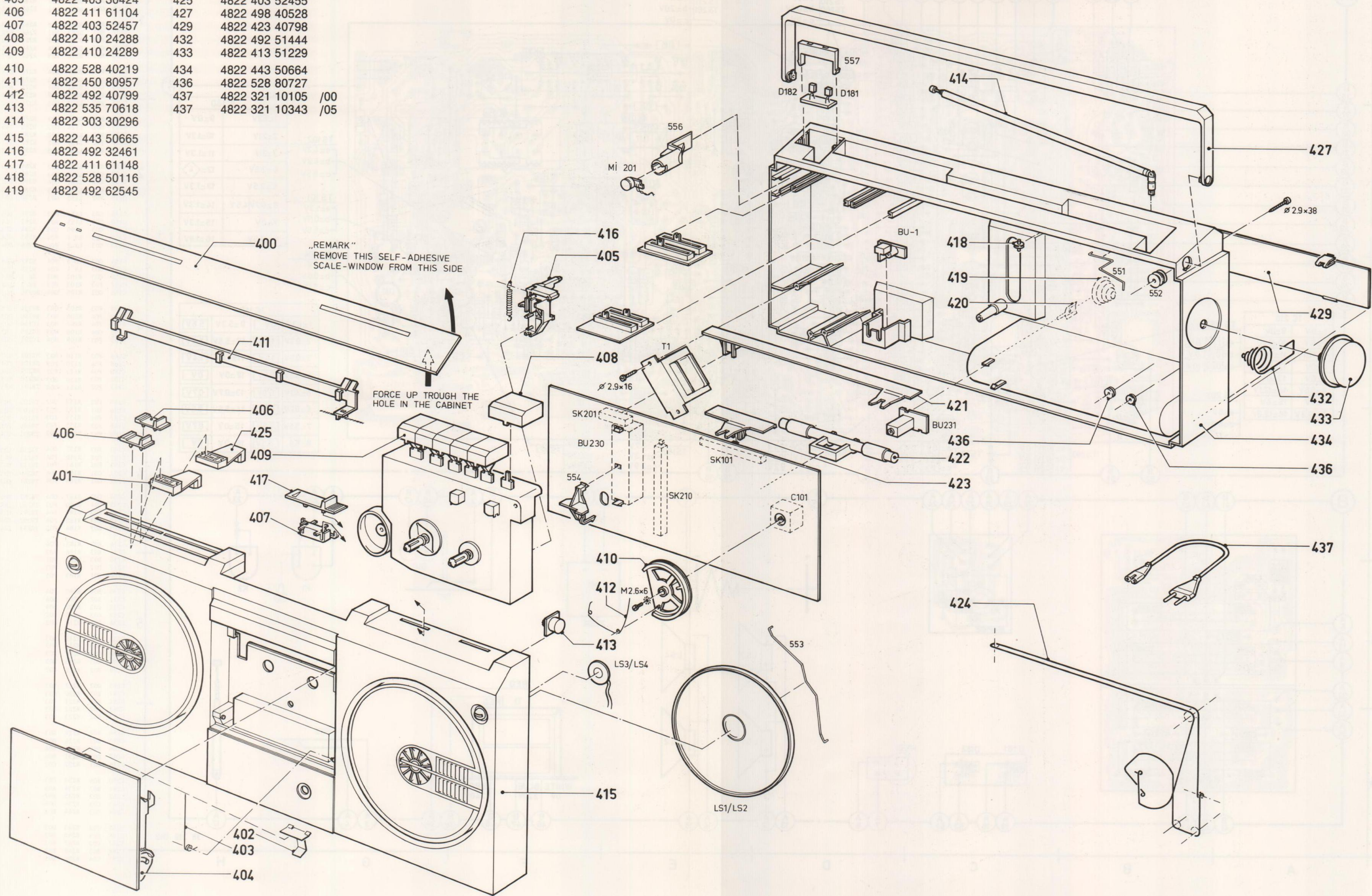
*** Trimming rod 4822 395 50135

BU210 H 2	C213 J 7	C230 I13	C237 J15	C264 C 8	C281 D13	C288 C13	D289 G11	L290 H12	R210 J 3	R217 H 8	R224 L 5	R235 I13	R253 F11	R261 B 2	R268 B 2	R276 A 9	R286 F17	R296 G14	SK201 I 9	SK210 J 4	SK210 E15	TS260 C 6
BU230 I18	C214 I 8	C231 J13	C238 I13	C265 C 6	C282 C14	C291 G12	D291 F12	LS1 E19	R211 H 2	R218 H 2	R226 G 9	R236 F17	R254 F12	R262 C 3	R269 B 3	R270 F 4	R280 C13	R289 F11	R297 G15	SK210 D 4	SK210 L 4	TS261 C 7
BU231 O18	C215 K 6	C232 I14	C239 J16	C266 G 4	C283 C15	C292 H13	D294 J16	LS2 I19	R212 I 3	R219 H 3	R230 I13	R244 K 6	R255 F12	R263 C 6	R270 F 4	R281 C14	R290 F14	R298 G15	SK210 F 4	SK210 J 4	SK210 H 8	TS262 E 5
BU260 B 2	C216 M 4	C233 I15	C245 J 3	C267 E 4	C284 C16	C293 G12	IC210 B16	LS3 O19	R213 I 6	R220 L 4	R231 I14	R246 D 1	R256 F12	R264 C 6	R271 E 6	R282 D15	R291 F14	R299 G12	SK210 D 4	SK210 I 8	SK220 C 1	TS290 E13
BU280 C18	C217 K 4	C234 I16	C261 C 5	C269 B 3	C285 D16	C295 O 3	K1 F 3	LS4 H19	R214 I 6	R221 L 6	R232 J15	R250 F10	R257 F13	R265 C 7	R272 E 6	R283 C17	R292 H14	SK201 A 9	SK210 C 8	SK210 I 7	TS210 I 6	TS291 G13
C211 I 5	C219 H 3	C235 J16	C262 C 6	C276 B 9	C286 C17	D210 K 7	K101 L 3	M1201 D 1	R215 I 7	R222 K 6	R233 I17	R251 E10	R259 D 5	R266 D 7	R273 G 4	R284 C10	R294 E 6	SK201 C 9	SK210 I 4	SK210 I 4	TS211 I 7	TS292 G13
C212 I 6	C226 H 9	C236 I17	C263 D 7	C280 C13	C287 D15	D260 E 7	K2 H12	R209 J 5	R216 J 7	R223 H 4	R234 I10	R252 F11	R260 D 3	R267 B 8	R274 F 5	R285 C13	R295 G14	SK201 O 9	SK210 C 4	SK210 F15	TS212 K 5	TS293 H14





400	4822 333 50656	420	4822 492 62233
401	4822 403 52456	421	4822 411 61151
402	4822 492 63186	422	4822 526 10262
403	4822 492 41234	423	4822 411 61149
404	4822 443 61612	424	4822 321 30214
405	4822 403 30424	425	4822 403 52455
406	4822 411 61104	427	4822 498 40528
407	4822 403 52457	429	4822 423 40798
408	4822 410 24288	432	4822 492 51444
409	4822 410 24289	433	4822 413 51229
410	4822 528 40219	434	4822 443 50664
411	4822 450 80957	436	4822 528 80727
412	4822 492 40799	437	4822 321 10105
413	4822 535 70618	437	4822 321 10343
414	4822 303 30296		
415	4822 443 50665		
416	4822 492 32461		
417	4822 411 61148		
418	4822 528 50116		
419	4822 492 62545		



-IC-			-C-		
IC180	BA1332	4822 209 83105	C101		4822 125 30039
IC210	TEA2025A	4822 209 82487	C122		4822 125 50045
IC150	TEA5570	4822 209 81563	C136		4822 125 50062
-TS-			-R-		
BC337-40		4822 130 41344	R187-5K		4822 100 10918
BC548B		4822 130 40937	R230-50K		4822 105 10609
BC548C		4822 130 44196	R231-20K		4822 105 10674
BC549C		4822 130 44246	R233-2E2		4822 111 20378
BC556		4822 130 40989	R250-100K		4822 105 10608
BC558		4822 130 40941	R281-20K		4822 105 10674
BC558C		4822 130 44197	R283-2E2		4822 111 20378
BF494B		4822 130 41376			
-D-			-SK-		
BA315		4822 130 30843	SK101	"Wave select"	4822 277 30716
BZX79-B4V7		4822 130 34174	SK201	"Mode"	4822 277 30633
BZX79-B6V2		4822 130 34167	SK210	"Play/Rec"	4822 277 60189
SLP141B		4822 130 31191			
1N4002		5322 130 30684			
1N4148		4822 130 30621			
BZX79C4V3		4822 130 31554			
-L-			-Miscellaneous-		
L102		4822 156 30947	BU1		4822 265 20207
L103		4822 156 30947	BU230		4822 267 50487
L126		4822 156 30811	BU231		4822 267 30599
L130		4822 156 10687	F201	800 mA	4822 253 30019
L131		4822 156 10689	LS1,LS2		4822 240 30211
L150		4822 153 50206	LS3,LS4		4822 280 10144
L151		4822 156 10737	Screw	2.9x38	4822 502 30235
L152		4822 242 70249	T1		4822 146 10121
L153		4822 156 10737	Fuse holder		4822 492 62373
L154		4822 156 10686	Mi201		4822 242 10054
L155		4822 157 51462			
L290		5322 157 51718			