

Service
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RTV servis Horvat

Kešinci, 31402 Semeljci

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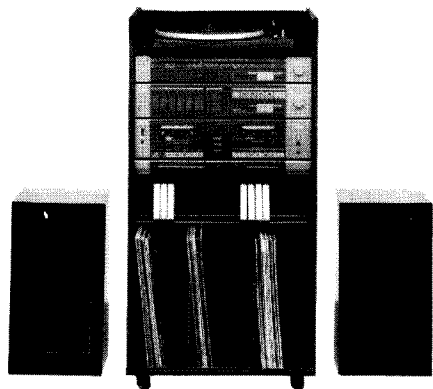
098-788-319

rtv-servis-horvat@os.tel.hr

Croatia

For Servicing Information concerning the cassette mechanism refer to Service Manuals: "Recorder Tape Decks RT75, RT77 and RT1".

For Servicing Information concerning the record player refer to Service Manual F7046/00A.

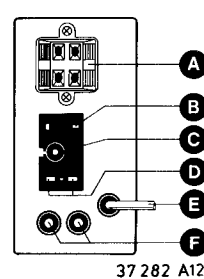
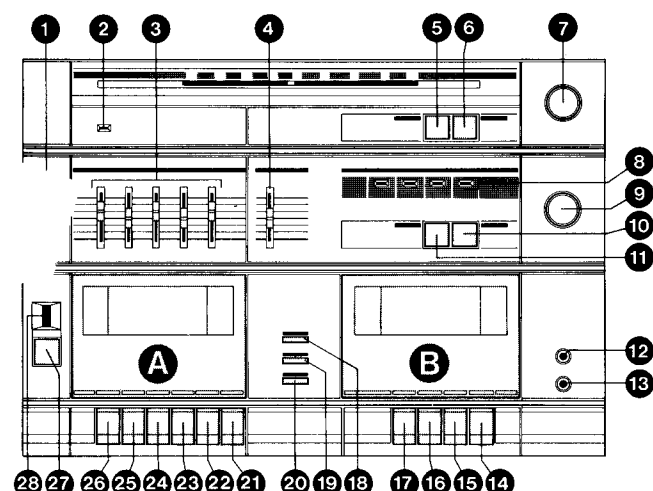


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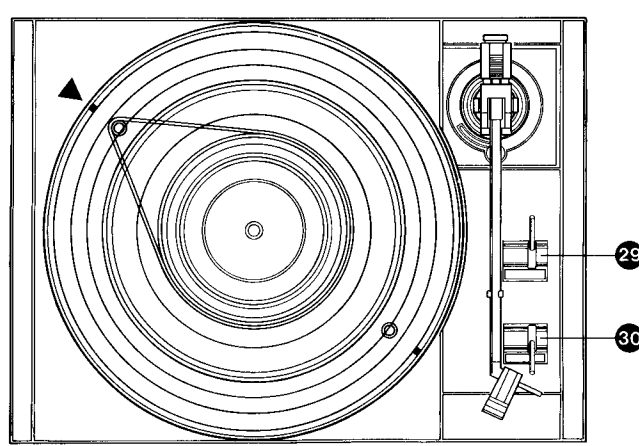
Service Manual

GB	NL	F	D	I	
TECHNICAL DATA	SPECIFICATIES	SPECIFICATIONS	TECHNISCHE DATEN	DATI TECNICI	
Power supply voltages	Voedingsspanningen	Alimentation	Versorgungsspannungen	Tensioni d'alimentazione	: 110,127,220,240 V 50/60 Hz~
Power consumption	Opgenomen vermogen	Puissance absorbée	Leistungsaufnahme	Potenza assorbita	: ≤ 110 W/max.
Dimensions	Afmetingen	Dimensions	Abmessungen	Dimensioni	: 450×880×360 mm approx.
Wave ranges:	Golfbereiken:	Gammes d'ondes:	Wellenbereiche:	Gamme d'onda:	
FM	FM	FM	UKW	FM	: 87.5-108 MHz
MW	MW	PO	MW	OM	: 520-1605 kHz (577- 187 m)
LW	LW	GO	LW	OL	: 150- 255 kHz (2000-1177 m)
Sensitivity:	Gevoeligheid:	Sensibilité:	Empfindlichkeit:	Sensibilità:	
Δf 75 kHz FM	Δf 75 kHz FM	Δf 75 kHz FM	Δf 75 kHz FM	Δf 75 kHz FM	: (1.6 μV mono, 26 dB S/N) (50 μV stereo, 46 dB S/N) (100 μV for 26 dB S/N)
600 kHz AM	600 kHz AM	600 kHz AM	600 kHz AM	600 kHz AM	
Aerial input	Antenne ingang	Impédance d'antenne	Antennen-Impedanz	Ingresso antenna	: 75 Ω and 300 Ω
Output power (at 4 Ω load)	Uitgangsvermogen (4 Ω)	Puissance de sortie (4 Ω)	Ausgangsleistung (4 Ω)	Potenza d'uscita (con carico 4 Ω)	: 2× 13 W (1 kHz) D≤10%
Output impedance	Uitgangsimpedantie	Impédance de sortie	Ausgangsimpedanz	Impedenza d'uscita	: 4 Ω
Output impedance of headphones	Uitgangsimpedantie hoofdtelefoon	Impédance de sortie écouteurs	Kopfhörer-Ausgangs-impedanz	Impedenza d'uscita per cuffia	: 4-1000 Ω
Cassette deck	Recorder	Magnétophone	Recorder	Piastra registratore	
Speed	Snelheid	Vitesse	Geschwindigkeit	Velocità	: 4.76 cm/sec ± 2%
Wow and flutter	Wow en flutter	Pleurage et scintillement	Gleichlaufschwankungen	Wow e flutter	: ≤ 0.2%
Record player	Platenspeler	Tourne-disque	Plattenspieler	Giradischi	
Speed	Snelheid	Vitesse	Geschwindigkeit	Velocità	: 33 ¹ /3-45 r.p.m
Wow and flutter	Wow en flutter	Pleurage et scintillement	Gleichlaufschwankungen	Wow e flutter	: ≤ 0.25%
Pick up cartridge	Element	Cartouche pick-up	Tonabnehmersystem	Testina	: GP215





37 282 A12



37 283 B12

GB			
1	On/off switch	SK1	
2	FM stereo indicator	6111	
3	Equalizer controls	63 Hz 3315	
		250 Hz 3325	
		1 kHz 3335	
		4 kHz 3345	
		16 kHz 3355	
4	Balance control	3370	
5	MW/LW selection button	SK79	
6	AM/FM selection button	SK78	
7	Tuning knob		
8	Mode indicators	Phono 6333	
		Tuner 6334	
		CD/TV 6331	
		Cass. 6332	
9	Volume control	3369	
10	Mono/Rif selection button	SK76	
11	CD/TV function button	SK77	
12	Terminal socket stereo headphone	BU2	
13	Terminal socket mono microphone	BU1	
14	Play button		
15	Stop/Eject button		
16	Wind/Cue button		
17	Rewind/Review button		
18	Dubbing B → A button	SK74	
19	Noise reduction button	SK73	
20	Tape type button	SK72	
21	Pause button		
22	Play button		
23	Stop/Eject button		
24	Wind/Cue button		
25	Rewind/Review button		
26	Recording button		
27	Zero reset button		
28	Counter		
29	Cue lever		
30	Speed selector switch	SK-H	
A	Terminals for loudspeakers 4 Ω	BU5-6	
B	Terminal sockets for AM aerial and earth	BU4	
C	Terminal sockets for FM aerial, 75 Ω	BU4	
D	Terminal sockets for FM aerial, 300 Ω	BU4	
E	Mains lead		
F	Terminal sockets for CD/TV	BU3	

NL			
1	Aan/Uit schakelaar	SK1	
2	FM stereo indicator	6111	
3	Klankkleurregelaars	63 Hz 3315	
		250 Hz 3325	
		1 kHz 3335	
		4 kHz 3345	
		16 kHz 3355	
4	Balanceregelaar	3370	
5	Keuzetoets MW/LW	SK79	
6	Keuzetoets AM/FM	SK78	
7	Afstemknop		
8	Mode indicators	Phono 6333	
		Tuner 6334	
		CD/TV 6331	
		Cass. 6332	
9	Geluidssterkteregelaar	3369	
10	Mono/Rif keuzetoets	SK76	
11	CD/TV functietoets	SK77	
12	Aansluitbus stereo hoofdtelefoon	BU2	
13	Aansluitbus mono microfoon	BU1	
14	Weergeeftoets		
15	Stop/Uitwerptoets		
16	Snelspoeltoets Wind/Cue		
17	Snelspoeltoets Rewind/Review		
18	Toets Dubbing B → A	SK74	
19	Ruisonderdrukkingstoets	SK73	
20	Keuzetoets voor bandsoort	SK72	
21	Pauzetoets		
22	Weergeefknop		
23	Stop/Uitwerptoets		
24	Snelspoeltoets Wind/Cue		
25	Snelspoeltoets Rewind/Review		
26	Opneemtoets		
27	Nulstelhoets		
28	Bandteller		
29	Hefboom		
30	Toerentalkeuze	SK-H	
A	Luidsprekeraansluitklemmen 4 Ω	BU5-6	
B	Aansluitbussen voor AM-antenne en aarde	BU4	
C	Aansluitbus voor FM-antenne, 75 Ω	BU4	
D	Aansluitbus voor FM-antenne, 300 Ω	BU4	
E	Netsnoer		
F	Aansluitbussen CD/TV	BU3	

F

1	Commutateur Marche/Arrêt	SK1
2	Indicateur lumineux FM stéréo	6111
3	Egaliseur graphique 5 bandes	3315
	63 Hz	3315
	250 Hz	3325
	1 kHz	3335
	4 kHz	3345
	16 kHz	3355
4	Balans stéréo	3370
5	Sélecteur de gamme d'ondes PO/GO	SK79
6	Sélecteur de modulation AM/FM	SK78
7	Bouton d'accord	
8	Voyants lumineux par Signalisation des saurces	6333
	Phono	6334
	Tuner	6331
	CD/TV	6332
	Cass.	3369
9	Volume sonore	3369
10	Interrupteur Mono/Rif	SK76
11	Sélecteur CD/TV	SK77
12	Prise pour casque stéréo 4-1000 Ω	BU2
13	Prise pour microphone mono	BU1
14	Touche démarrage	
15	Touche d'arrêt/éjection	
16	Touche bobinage rapide avant	
17	Touche bobinage rapide arrière	
18	Bouton de duplication Dubbing B → A	SK74
19	Commutateur de réducteur du bruit	SK73
20	Commande sélection type de bande	SK72
21	Touche pause	
22	Touche démarrage	
23	Touche d'arrêt/éjection	
24	Touche bobinage rapide avant	
25	Touche bobinage rapide arrière	
26	Touche d'enregistrement	
27	Bouton de remise à zéro du compteur	
28	Compteur	
29	Lève bras	
30	Sélecteur de vitesse	SK-H
A	Prises pour haut-parleurs 4 Ω	BU5-6
B	Prise pour antenne extérieur AM et terre	BU4
C	Prise pour antenne extérieur FM, 75 Ω	BU4
D	Prise pour antenne FM, 300 Ω	BU4
E	Cordan secteur	
F	Prises d'entrées auxilliaires CD/TV	BU3

D

1	Netz-Ein/Aus-Schalter	SK1
2	FM stereo-Anzeige	6111
3	Klangfilter	3315
	63 Hz	3325
	250 Hz	3335
	1 kHz	3345
	4 kHz	3355
	16 kHz	3370
4	Balance	SK79
5	MW/LW Wellenbereichsschalter	SK78
6	AM/FM Wählschalter	
7	Tuning-Knopf	
8	Programmquellen-Anzeiger	6333
	Phono	6334
	Tuner	6331
	CD/TV	6332
	Cass.	3369
9	Lautstärke-Einsteller	SK76
10	Mono/Rif Schalter	SK77
11	CD/TV Wiedergabe-Schalter	BU2
12	Anschluss für Stereokopfhörer 4-1000 Ω	BU1
13	Anschluss für ein Mono-Mikrofon	
14	Wiedergabe-Schalter	
15	Stop/Eject Taste	
16	Wind/Cue schneller Bandvorlauf	
17	Rewind/Review schneller Bandrücklauf	
18	Dubbing B → A-Schalter	SK74
19	Noise Red-Schalter	SK73
20	Bandsorten-Einstellung	SK72
21	Pause-Schalter	
22	Wiedergabe/Start-Schalter	
23	Stop/Eject-Schalter	
24	Schneller Bandvorlauf	
25	Schneller Bandrücklauf	
26	Record-Schalter	
27	Rückstelltaste	
28	Zählwerk	
29	Tonarmlift	
30	U/min. Drehzahlwähler	SK-H
A	Lautsprecher-Ausgänge 4 Ω	BU5-6
B	Anschluss für eine AM-Antenne mit Erde	BU4
C	Anschluss für eine FM-Antenne, 75 Ω	BU4
D	Anschluss für eine FM-Antenne, 300 Ω	BU4
E	Netzanschlussleitung	
F	CD/TV-Anschlussbuchsen	BU3

I

1	Interruttore acceso/spento	SK1
2	Indicatore FM stereo	6111
3	Controlli della tonalità	3315
	63 Hz	3325
	250 Hz	3335
	1 kHz	3345
	4 kHz	3355
	16 kHz	3370
4	Controllo del bilanciamento	SK79
5	Selettore MW/LW	SK78
6	Selettore AM/FM	
7	Manopola di sintonia	
8	Indicatori del modo	6333
	Phono	6334
	Tuner	6331
	CD/TV	6332
	Cass.	3369
9	Controllo del volume	SK76
10	Selettore Mono/Rif	SK77
11	Selettore CD/TV	BU2
12	Presca per cuffia stereo phones 4-1000 Ω	BU1
13	Presca per microfono mono	
14	Tasto di riproduzione	
15	Tasto di arresto/espulsione	

16	Tasto di avvolgimento rapido	
17	Tasto di riavvolgimento rapido	
18	Tasto di capiaturo Dubbing B → A	SK74
19	Tasto di soppressione del fruscio	SK73
20	Selettore del tipo di nastro	SK72
21	Tasto di pausa	
22	Tasto di riproduzione/avvolgimento	
23	Tasto di arresto/espulsione	
24	Tasto di avvolgimento rapido	
25	Tasto di avvolgimento rapido	
26	Tasto di registrazione	
27	Tasto di azzeramento	
28	Contanastro	
29	Leva	
30	Selettore dei giri	SK-H
A	Morsetti per casse acustiche 4 Ω	BU5-6
B	Prese per antenno AM e terro	BU4
C	Prese per antenna FM, 75 Ω	BU4
D	Prese per antenna FM, 300 Ω	BU4
E	Cordone di rete	
F	Prese CD/TV	BU3

1	2	3	4	5	6	7	8	9	10	11
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Service hint
Upon repair
player) A15-
with A13-re

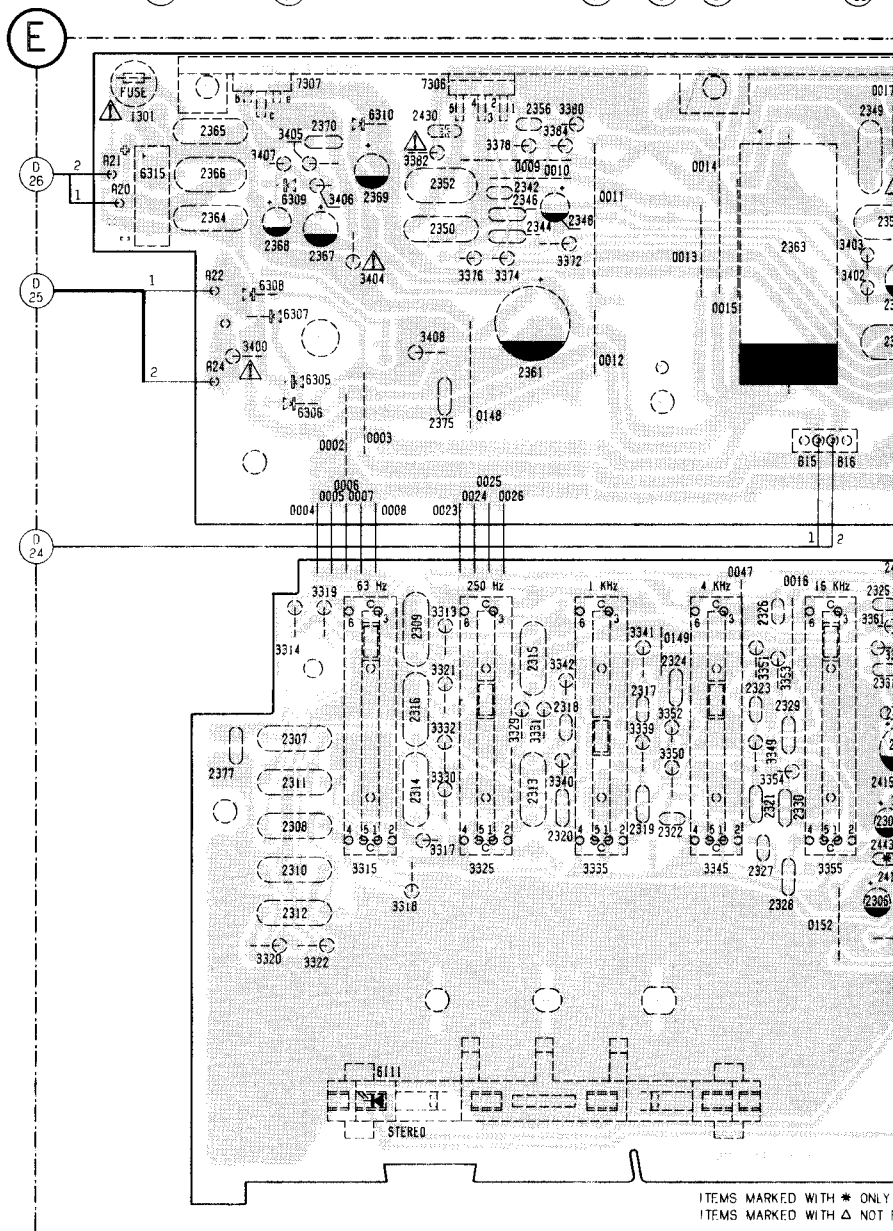
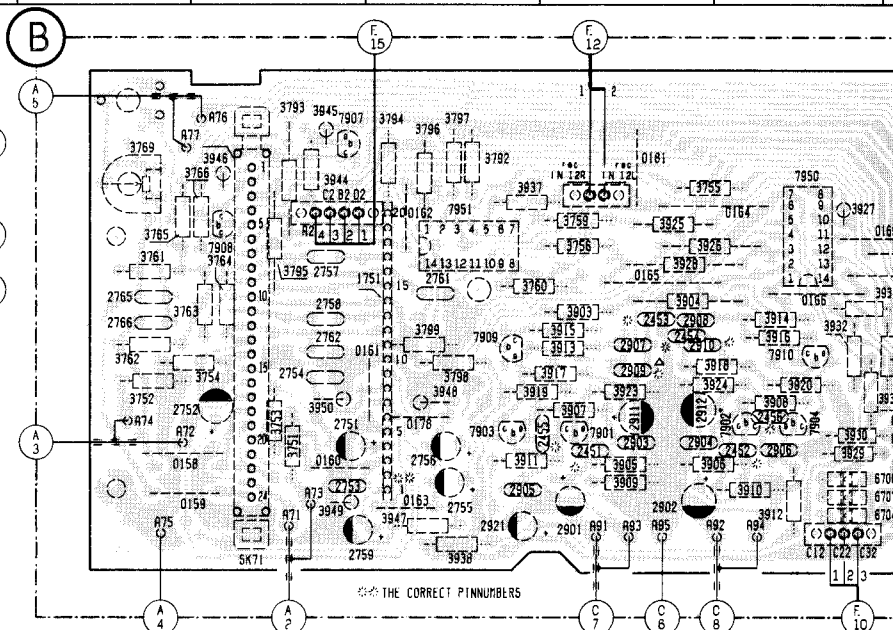
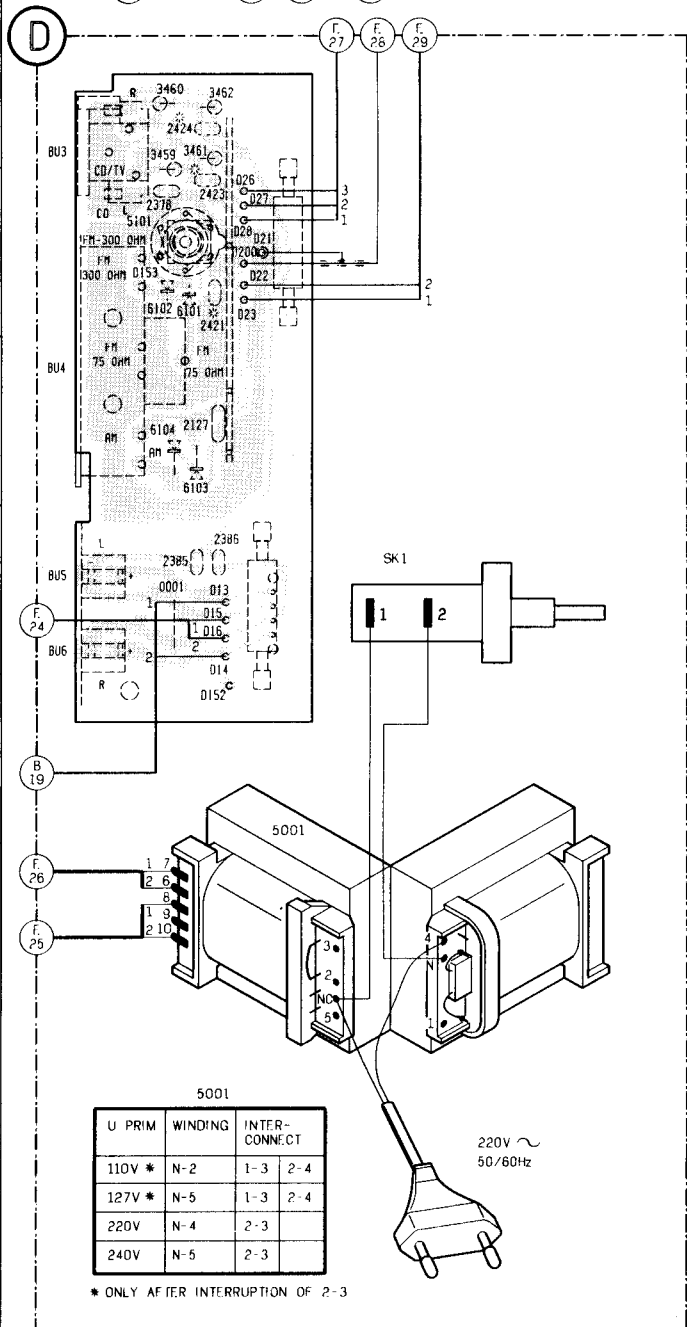
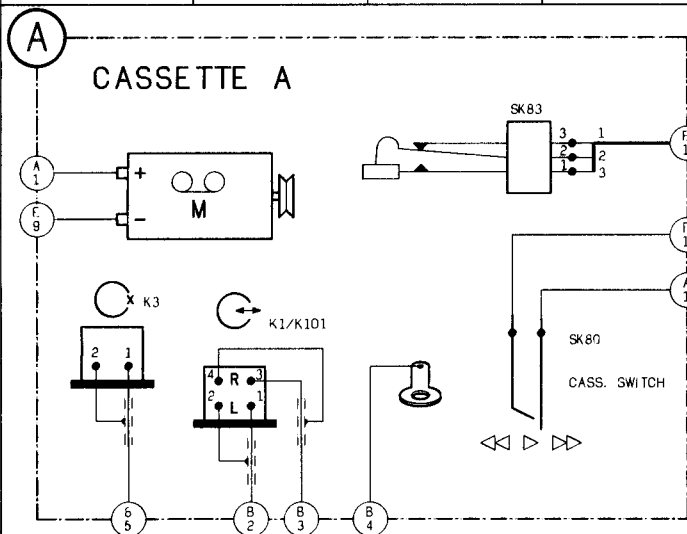
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89	5191	CE 90	5192	CF 91	5193	CG 92	5194	CH 93	5195	CI 94	5196	CJ 95	5197	CK 96	5198	CL 97	5199	CM 98	5200	CN 99	5201	CO 100	5202	CP 101	5203	CQ 102	5204	CR 103	5205	CS 104	5206	CT 105	5207	CU 106	5208	CV 107	5209	CW 108	5210	CX 109	5211	CY 110	5212	CA 111	5213	CB 112	5214	CC 113	5215	CD 114	5216	CE 115	5217	CF 116	5218	CG 117	5219	CH 118	5220	CI 119	5221	CJ 120	5222	CK 121	5223	CL 122	5224	CM 123	5225	CN 124	5226	CO 125	5227	CP 126	5228	CQ 127	5229	CR 128	5230	CS 129	5231	CT 130	5232	CU 131	5233	CV 132	5234	CW 133	5235	CX 134	5236	CY 135	5237	CA 136	5238	CB 137	5239	CC 138	5240	CD 139	5241	CE 140	5242	CF 141	5243	CG 142	5244	CH 143	5245	CI 144	5246	CJ 145	5247	CK 146	5248	CL 147	5249	CM 148	5250	CN 149	5251	CO 150	5252	CP 151	5253	CQ 152	5254	CR 153	5255	CS 154	5256	CT 155	5257	CU 156	5258	CV 157	5259	CW 158	5260	CX 159	5261	CY 160	5262	CA 161	5263	CB 162	5264	CC 163	5265	CD 164	5266	CE 165	5267	CF 166	5268	CG 167	5269	CH 168	5270	CI 169	5271	CJ 170	5272	CK 171	5273	CL 172	5274	CM 173	5275	CN 174	5276	CO 175	5277	CP 176	5278	CQ 177	5279	CR 178	5280	CS 179	5281	CT 180	5282	CU 181	5283	CV 182	5284	CW 183	5285	CX 184	5286	CY 185	5287	CA 186	5288	CB 187	5289	CC 188	5290	CD 189	5291	CE 190	5292	CF 191	5293	CG 192	5294	CH 193	5295	CI 194	5296	CJ 195	5297	CK 196	5298	CL 197	5299	CM 198	5300	CN 199	5301	CO 200	5302	CP 201	5303	CQ 202	5304	CR 203	5305	CS 204	5306	CT 205	5307	CU 206	5308	CV 207	5309	CW 208	5310	CX 209	5311	CY 210	5312	CA 211	5313	CB 212	5314	CC 213	5315	CD 214	5316	CE 215	5317	CF 216	5318	CG 217	5319	CH 218	5320	CI 219	5321	CJ 220	5322	CK 221	5323	CL 222	5324	CM 223	5325	CN 224	5326	CO 225	5327	CP 226	5328	CQ 227	5329	CR 228	5330	CS 229	5331	CT 230	5332	CU 231	5333	CV 232	5334	CW 233	5335	CX 234	5336	CY 235	5337	CA 236	5338	CB 237	5339	CC 238	5340	CD 239	5341	CE 240	5342	CF 241	5343	CG 242	5344	CH 243	5345	CI 244	5346	CJ 245	5347	CK 246	5348	CL 247	5349	CM 248	5350	CN 249	5351	CO 250	5352	CP 251	5353	CQ 252	5354	CR 253	5355	CS 254	5356	CT 255	5357	CU 256	5358	CV 257	5359	CW 258	5360	CX 259	5361	CY 260	5362	CA 261	5363	CB 262	5364	CC 263	5365	CD 264	5366	CE 265	5367	CF 266	5368	CG 267	5369	CH 268	5370	CI 269	5371	CJ 270	5372	CK 271	5373	CL 272	5374	CM 273	5375	CN 274	5376	CO 275	5377	CP 276	5378	CQ 277	5379	CR 278	5380	CS 279	5381	CT 280	5382	CU 281	5383	CV 282	5384	CW 283	5385	CX 284	5386	CY 285	5387	CA 286	5388	CB 287	5389	CC 288	5390	CD 289	5391	CE 290	5392	CF 291	5393	CG 292	5394	CH 293	5395	CI 294	5396	CJ 295	5397	CK 296	5398	CL 297	5399	CM 298	5400	CN 299	5401	CO 300	5402	CP 301	5403	CQ 302	5404	CR 303	5405	CS 304	5406	CT 305	5407	CU 306	5408	CV 307	5409	CW 308	5410	CX 309	5411	CY 310	5412	CA 311	5413	CB 312	5414	CC 313	5415	CD 314	5416	CE 315	5417	CF 316	5418	CG 317	5419	CH 318	5420	CI 319	5421	CJ 320	5422	CK 321	5423	CL 322	5424	CM 323	5425	CN 324	5426	CO 325	5427	CP 326	5428	CQ 327	5429	CR 328	5430	CS 329	5431	CT 330	5432	CU 331	5433	CV 332	5434	CW 333	5435	CX 334	5436	CY 335	5437	CA 336	5438	CB 337	5439	CC 338	5440	CD 339	5441	CE 340	5442	CF 341	5443	CG 342	5444	CH 343	5445	CI 344	5446	CJ 345	5447	CK 346	5448	CL 347	5449	CM 348	5450	CN 349	5451	CO 350	5452	CP 351	5453	CQ 352	5454	CR 353	5455	CS 354	5456	CT 355	5457	CU 356	5458	CV 357	5459	CW 358	5460	CX 359	5461	CY 360	5462	CA 361	5463	CB 362	5464	CC 363	5465	CD 364	5466	CE 365	5467	CF 366	5468	CG 367	5469	CH 368	5470	CI 369	5471	CJ 370	5472	CK 371	5473	CL 372	5474	CM 373	5475	CN 374	5476	CO 375	5477	CP 376	5478	CQ 377	5479	CR 378	5480	CS 379	5481	CT 380	5482	CU 381	5483	CV 382	5484	CW 383	5485	CX 384	5486	CY 385	5487	CA 386	5488	CB 387	5489	CC 388	5490	CD 389	5491	CE 390	5492	CF 391	5493	CG 392	5494	CH 393	5495	CI 394	5496	CJ 395	5497	CK 396	5498	CL 397	5499	CM 398	5500	CN 399	5501	CO 400	5502	CP 401	5503	CQ 402	5504	CR 403	5505	CS 404	5506	CT 405	5507	CU 406	5508	CV 407	5509	CW 408	5510	CX 409	5511	CY 410	5512	CA 411	5513	CB 412	5514	CC 413	5515	CD 414	5516	CE 415	5517	CF 416	5518	CG 417	5519	CH 418	5520	CI 419	5521	CJ 420	5522	CK 421	5523	CL 422	5524	CM 423	5525	CN 424	5526	CO 425	5527	CP 426	5528	CQ 427	5529	CR 428	5530	CS 429	5531	CT 430	5532	CU 431	5533	CV 432	5534	CW 433	5535	CX 434	5536	CY 435	5537	CA 436	5538	CB 437	5539	CC 438	5540	CD 439	5541	CE 440	5542	CF 441	5543	CG 442	5544	CH 443	5545	CI 444	5546	CJ 445	5547	CK 446	5548	CL 447	5549	CM 448	5550	CN 449	5551	CO 450	5552	CP 451	5553	CQ 452	5554	CR 453	5555	CS 454	5556	CT 455	5557	CU 456	5558	CV 457	5559	CW 458	5560	CX 459	5561	CY 460	5562	CA 461	5563	CB 462	5564	CC 463	5565	CD 464	5566	CE 465	5567	CF 466	5568	CG 467	5569	CH 468	5570	CI 469	5571	CJ 470	5572	CK 471	5573	CL 472	5574	CM 473	5575	CN 474	5576	CO 475	5577	CP 476	5578	CQ 477	5579	CR 478	5580	CS 479	5581	CT 480	5582	CU 481	5583	CV 482	5584	CW 483	5585	CX 484	5586	CY 485	5587	CA 486	5588	CB 487	5589	CC 488	5590	CD 489	5591	CE 490	5592	CF 491	5593	CG 492	5594	CH 493	5595	CI 494	5596	CJ 495	5597	CK 496	5598	CL 497	5599	CM 498	5600	CN 499	5601	CO 500	5602	CP 501	5603	CQ 502	5604	CR 503	5605	CS 504	5606	CT 505	5607	CU 506	5608	CV 507	5609	CW 508	5610	CX 509	5611	CY 510	5612	CA 511	5613	CB 512	5614	CC 513	5615	CD 514	5616	CE 515	5617	CF 516	5618	CG 517	5619	CH 518	5620	CI 519	5621	CJ 520	5622	CK 521	5623	CL 522	5624	CM 523	5625	CN 524	5626	CO 525	5627	CP 526	5628	CQ 527	5629	CR 528	5630	CS 529	5631	CT 530	5632	CU 531	5633	CV 532	5634	CW 533	5635	CX 534	5636	CY 535	5637	CA 536	5638	CB 537	5639	CC 538	5640	CD 539	5641	CE 540	5642	CF 541	5643	CG 542	5644	CH 543	5645	CI 544	5646	CJ 545	5647	CK 546	5648	CL 547	5649	CM 548	5650	CN 549	5651	CO 550	5652	CP 551	5653	CQ 552	5654	CR 553	5655	CS 554	5656	CT 555	5657	CU 556	5658	CV 557	5659	CW 558	5660	CX 559	5661	CY 560	5662	CA 561	5663	CB 562	5664	CC 563	5665	CD 564	5666	CE 565	5667	CF 566	5668	CG 567	5669	CH 568	5670	CI 569	5671	CJ 570	5672	CK 571	5673	CL 572	5674	CM 573	5675	CN 574	5676	CO 575	5677	CP 576	5678	CQ 577	5679	CR 578	5680	CS 579	5681	CT 580	5682	CU 581	5683	CV 582	5684	CW 583	5685	CX 584	5686	CY 585	5687	CA 586	5688	CB 587	5689	CC 588	5690	CD 589	5691	CE 590	5692	CF 591	5693	CG 592	5694	CH 593	5695	CI 594	5696	CJ 595	5697	CK 596	5698	CL 597	5699	CM 598	5700	CN 599	5701	CO 600	5702	CP 601	5703	CQ 602	5704	CR 603	5705	CS 604	5706	CT 605	5707	CU 606	5708	CV 607	5709	CW 608	5710	CX 609	5711	CY 610	5712	CA 611	5713	CB 612	5714	CC 613	5715	CD 614	5716	CE 615	5717	CF 616	5718	CG 617	5719	CH 618	5720	CI 619	5721	CJ 620	5722	CK 621	5723	CL 622	5724	CM 623	5725	CN 624	5726	CO 625	5727	CP 626	5728	CQ 627	5729	CR 628	5730	CS 629	5731	CT 630	5732	CU 631	5733	CV 632	5734	CW 633	5735	CX 634	5736	CY 635	5737	CA 636	5738	CB 637	5739	CC 638	5740	CD 639	5741	CE 640	5742	CF 641	5743	CG 642	5744	CH 643	5745	CI 644	5746	CJ 645	5747	CK 646	5748	CL 647	5749	CM 648	5750	CN 649	5751	CO 650	5752	CP 651	57
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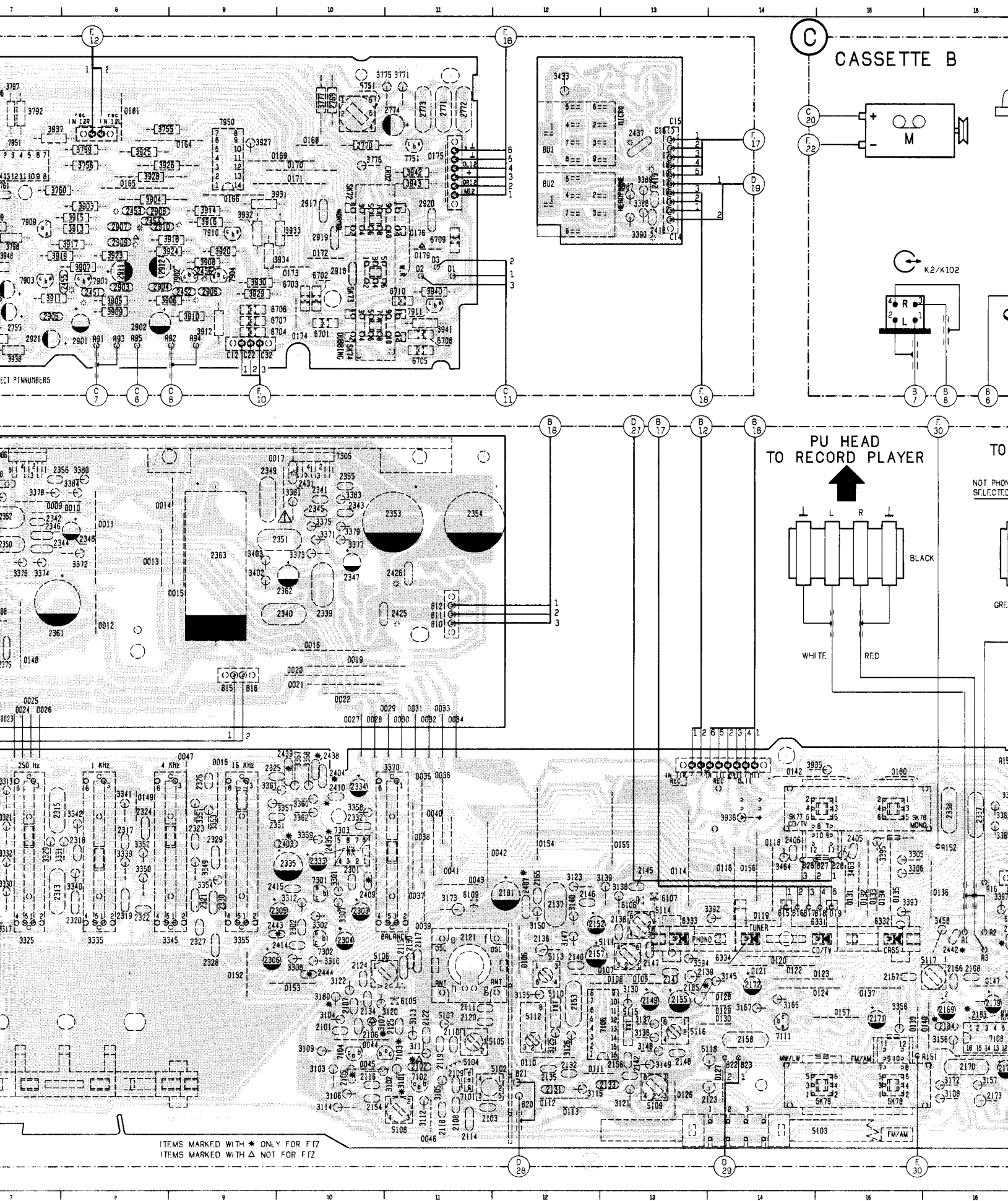
14	15	16	17	18	19	20	21	22	23	24	25
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e	0.6 V
b	1.2 V
c	4 V

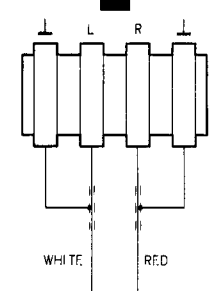


ITEMS MARKED WITH * ONLY
ITEMS MARKED WITH Δ NOT



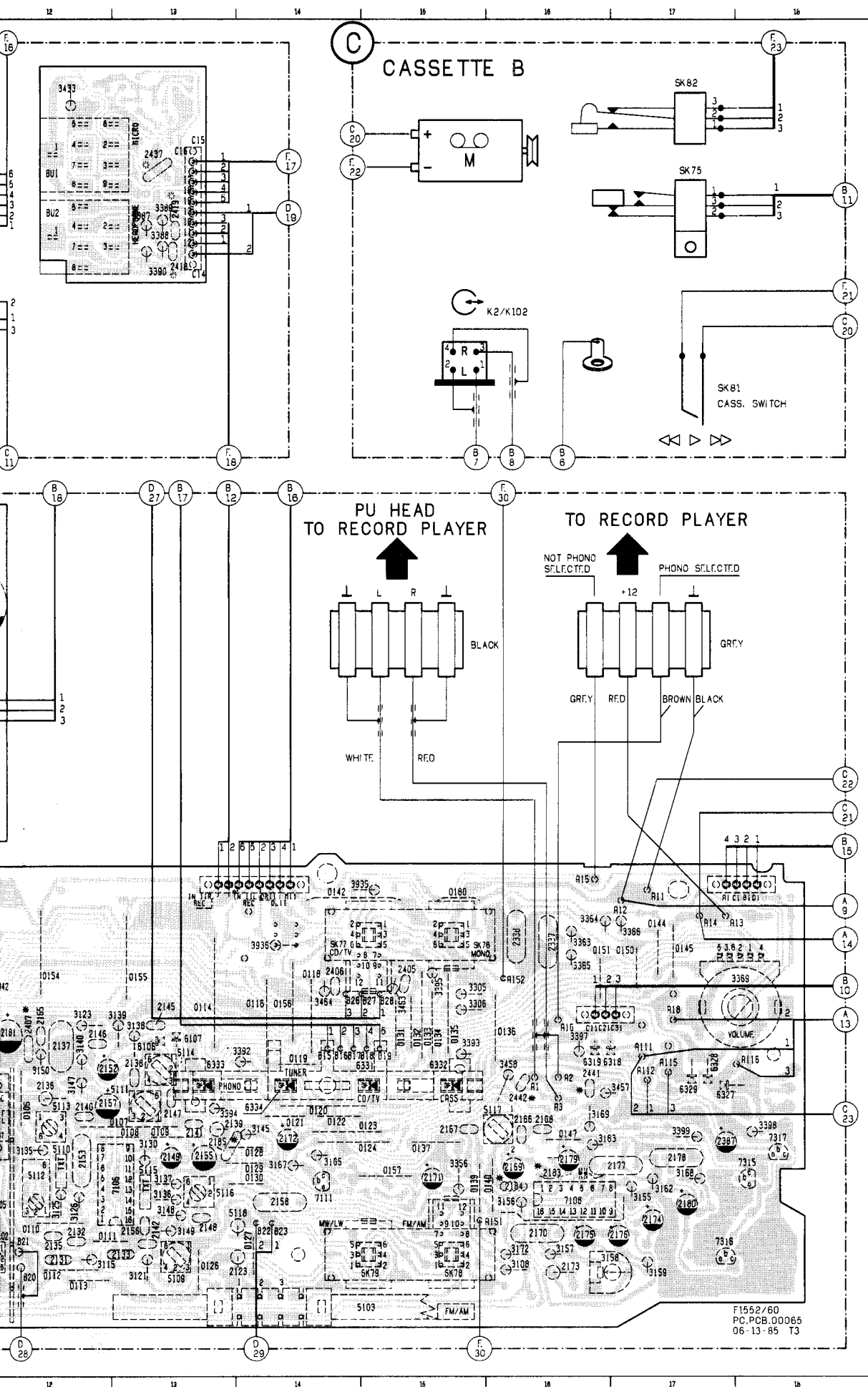
CASSETTE B

PU HEAD
TO RECORD PLAYER



NOT PHON
SELECTED

GRE.



A.F. CIRCUIT DIAGRAM

TO RECORDING
POINT 3-7951

FROM PU HEAD

FROM R.F.
3169

FROM RECORDING
3935

CD/TV

L

BU1

MICRO

CO17

CO16

R

FROM PU HEAD

FROM R.F.
3168

FROM RECORDING
3936

CD/TV

TO RECORDING
POINT 9-7951

M

N

O

ITEMS MARKED WITH: * ONLY FOR F.T.Z.
▲ NOT FOR F.T.Z.

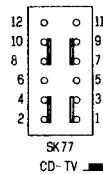


...V DC

UNLESS STATED OTHERWISE ALL FIXED RESISTORS
ARE FILM RESISTORS SFR25 PM5
SWITCHES DRAWN IN REST POSITION

Service hint:

Upon repairing the T.A.C. (detached from the record-
player) A15-grey (not phono selected) must be connected
with A13-red (+12).



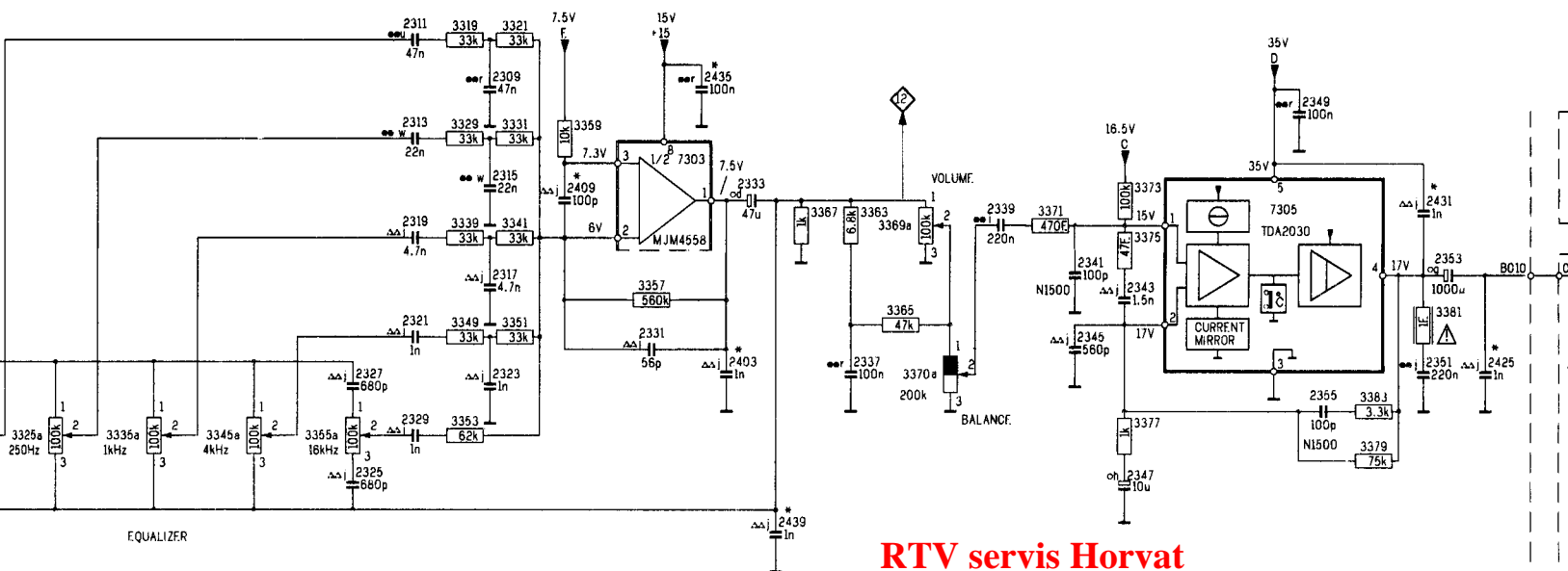
16.5V C

35V D

7.5V F

15V +15

12.5V +12



RTV servis Horvat

Kešinci, 31402 Semeljci

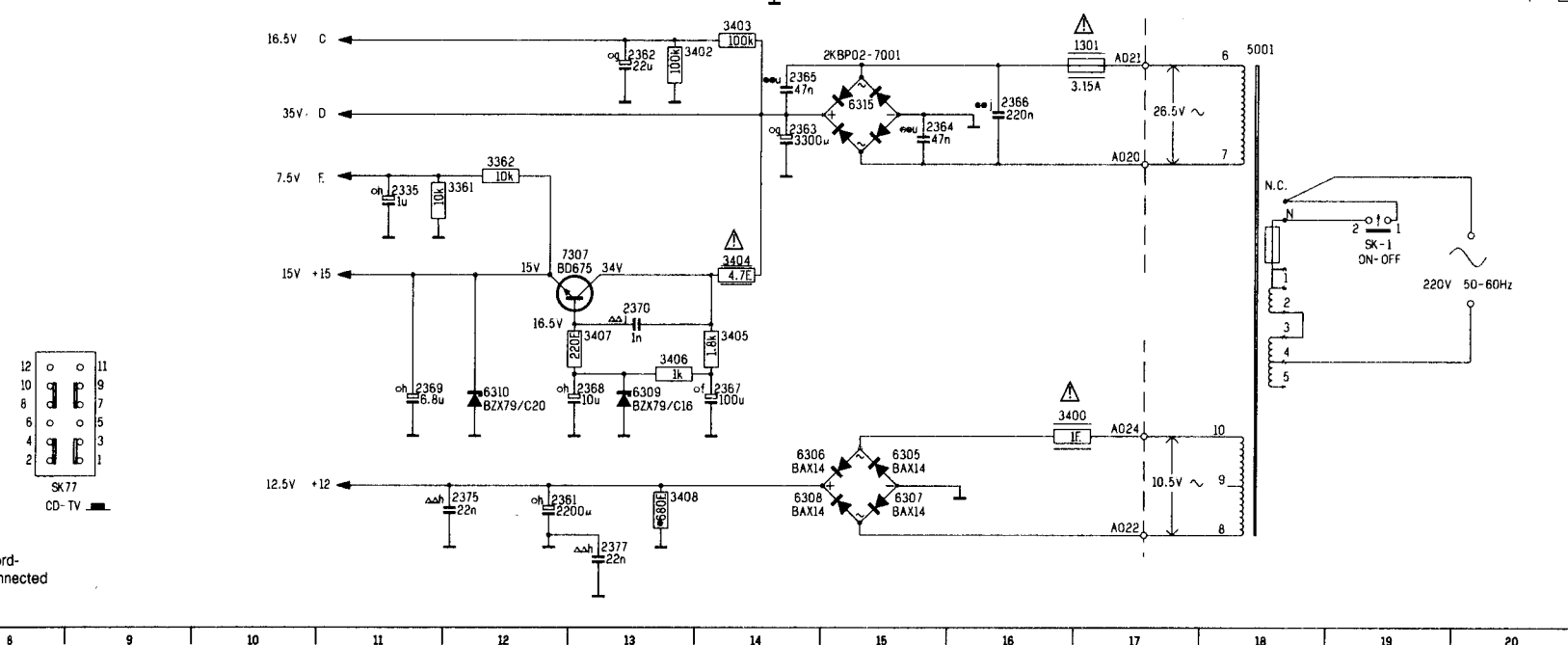
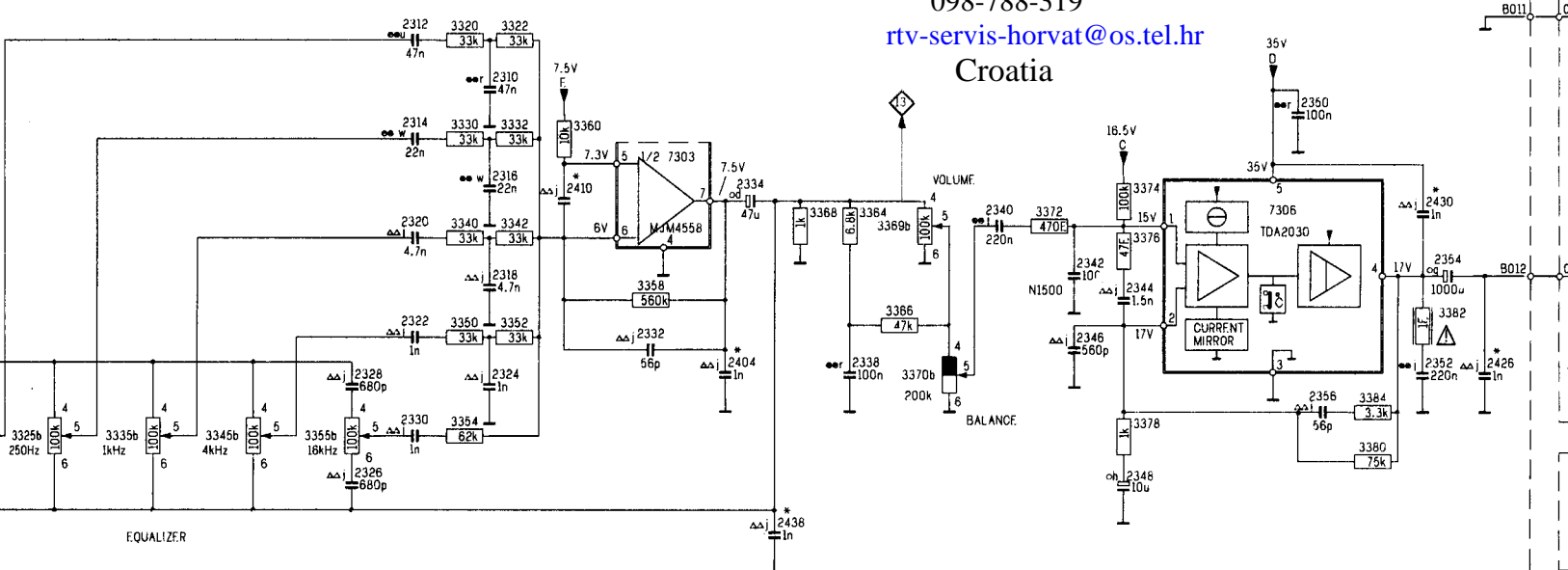
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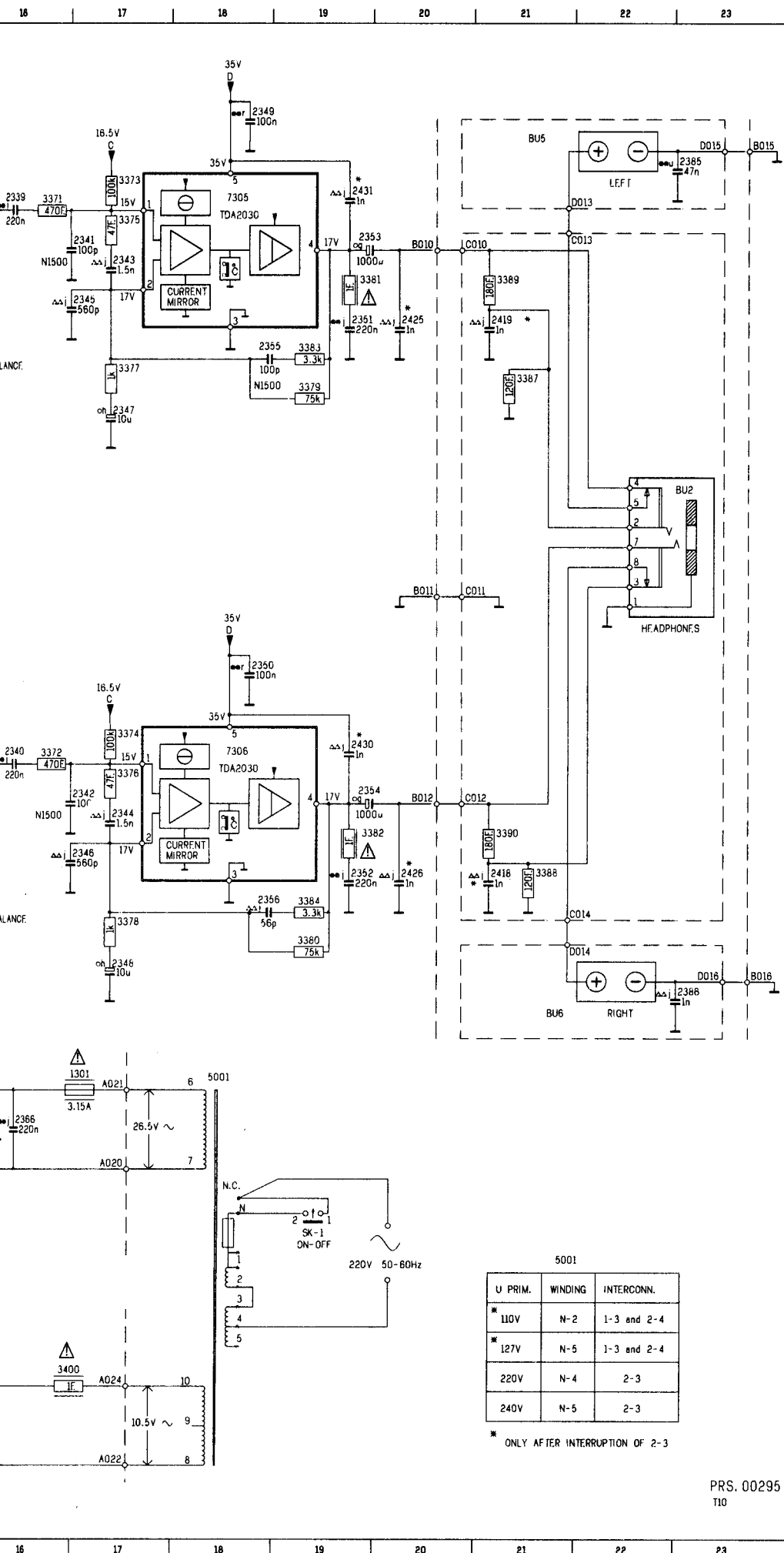
031-856-637

098-788-319

rtv-servis-horvat@os.tel.hr

Croatia





1301	K17	3368	H15
2301	D 6	3369	H15
2302	I 6	3369	B15
2303	C 5	3370	I15
2304	I 7	3370	C15
2305	C 7	3371	B16
2306	I 7	3372	H16
2307	D 7	3373	B17
2308	I 7	3374	H17
2309	A12	3375	B17
2310	A12	3376	H17
2311	F11	3377	D17
2312	F11	3378	I17
2313	A11	3379	D19
2314	G11	3380	J19
2315	B12	3381	C19
2316	G12	3382	I20
2317	C12	3383	D19
2318	H12	3384	I19
2319	B11	3387	D21
2320	H11	3388	I21
2321	C11	3389	C21
2322	I11	3390	I21
2323	C12	3400	N17
2324	I12	3402	K14
2325	D11	3403	K14
2326	J11	3404	M14
2327	C11	3405	M14
2328	I11	3406	N13
2329	D11	3407	M13
2330	I11	3408	O13
2331	C13	3433	F 5
2332	I13	3457	B 4
2333	B14	3458	I 4
2334	G14	3459	D 1
2335	L11	3460	K 1
2337	C15	3461	O 2
2338	I15	3462	K 2
2339	B16	3463	D 3
2340	H16	3464	K 3
2341	C17	5001	K18
2342	H17	6305	N15
2343	C17	6306	N14
2344	H17	6307	O15
2345	C17	6308	O14
2346	I17	6309	N13
2347	D17	6310	N12
2348	J17	6315	K15
2349	A18	7301	C 6
2350	G18	7302	I 6
2351	C19	7307	M13
2352	I19	601	F 3
2353	B19	BU2	E23
2354	H19	BU3	K 1
2355	D18	BU3	D 1
2356	I18	BU5	A21
2361	O12	BU6	J21
2362	K13	SK-1	H19
2363	L14	SK77	C 5
2364	L15	SK77	J 5
2365	K14	SK77	K 5
2366	K16	SK77	D 5
2367	N14		
2368	N13		
2369	N11		
2370	M13		
2375	O13		
2377	O13		
2378	K 2		
2385	B23		
2386	J23		
2403	C14		
2404	I14		
2405	D 3		
2406	K 3		
2409	B13		
2410	H13		
2414	H 6		
2415	C 6		
2418	I21		
2419	C21		
2423	O 2		
2424	K 2		
2425	C20		
2426	I20		
2430	H19		
2431	B19		
2435	A14		
2437	F 5		
2438	J14		
2439	E14		
2441	B 4		
2442	I 4		
2443	D 6		
2444	I 6		
3301	C 6		
3302	I 6		
3305	D 5		
3306	H 5		
3307	B 6		
3308	H 6		
3310	H 6		
3312	B 6		
3313	D 8		
3314	J 8		
3315	J 7		
3315	D 7		
3317	C 8		
3318	I 8		
3319	A12		
3320	F12		
3321	A12		
3322	F12		
3325	J 8		
3325	D 8		
3329	A12		
3330	G12		
3331	A12		
3332	G12		
3335	J 9		
3335	D 9		
3338	B12		
3340	H12		
3341	B12		
3342	H12		
3345	D10		
3345	J10		
3349	C12		
3350	I12		
3351	C12		
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3358	H13		
3359	A13		
3360	G13		
3361	L12		
3362	L12		
3363	B15		
3364	H15		
3365	C15		
3366	I15		
3367	B15		

AF part

7301

e 0.6

b 0.6

c 7

7302

e 0.6

b 0.6

c 7

7303

1 7.5

2 6

3 7.3

4 7.3

5 7.3

6 6

7 7.5

8 15

Co

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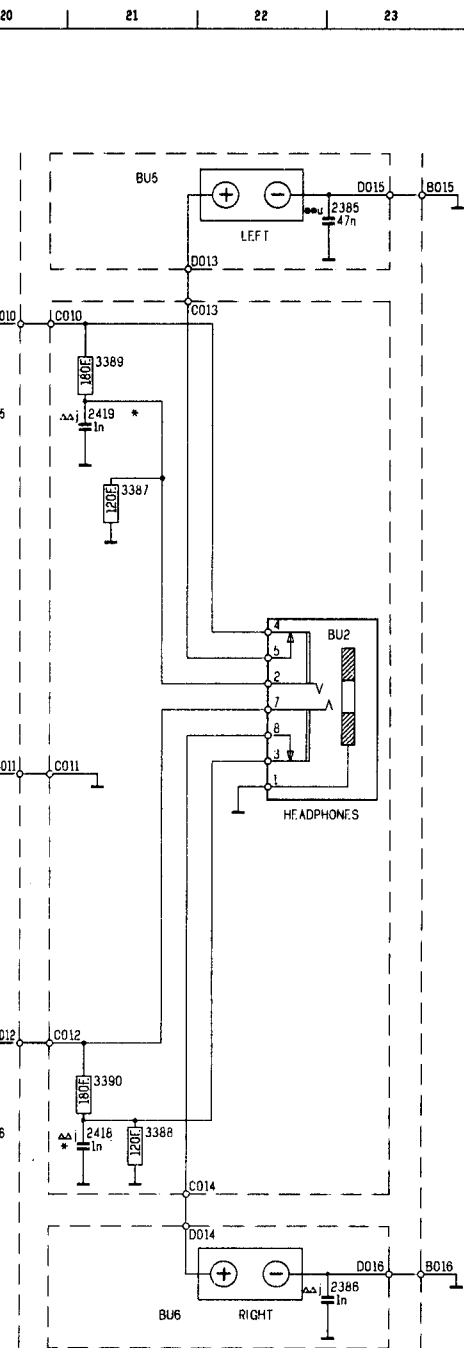
Po

Tu

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tar



5001

U PRIM.	WINDING	INTERCONN.
* 110V	N-2	1-3 and 2-4
* 127V	N-5	1-3 and 2-4
220V	N-4	2-3
240V	N-5	2-3

* ONLY AFTER INTERRUPTION OF 2-3

PRS. 00295
T10

- 1301 K17 3368 H15
- 2301 D 6 3369 H15
- 2302 I 6 3369 B15
- 2303 C 5 3370 I15
- 2304 I 5 3370 C15
- 2305 C 7 3371 B16
- 2306 I 7 3372 H16
- 2307 D 7 3373 B17
- 2308 I 7 3374 H17
- 2309 A12 3375 B17
- 2310 G12 3376 H17
- 2311 A11 3377 D17
- 2312 F11 3378 I17
- 2313 A11 3379 O19
- 2314 G11 3380 J19
- 2315 B12 3381 C19
- 2316 G12 3382 I20
- 2317 C12 3383 O19
- 2318 H12 3384 I19
- 2319 B11 3387 D21
- 2320 H11 3388 I21
- 2321 C11 3389 C21
- 2322 I11 3390 I21
- 2323 C12 3400 N17
- 2324 I12 3402 K14
- 2325 D11 3403 K14
- 2326 J11 3404 M14
- 2327 C11 3405 M14
- 2328 I11 3406 N13
- 2329 D11 3407 M13
- 2330 I11 3408 O13
- 2331 C13 3433 F 5
- 2332 I13 3457 B 4
- 2333 B14 3458 I 4
- 2334 G14 3459 O 1
- 2335 L11 3460 K 1
- 2337 C15 3461 O 2
- 2338 I15 3462 K 2
- 2339 B16 3463 D 3
- 2340 H16 3464 K 3
- 2341 C17 5001 K18
- 2342 H17 6305 N15
- 2343 C17 6306 N14
- 2344 H17 6307 O15
- 2345 C17 6308 O14
- 2346 I17 6309 N13
- 2347 D17 6310 N12
- 2348 J17 6315 K15
- 2349 A18 7301 C 6
- 2350 G18 7302 I 6
- 2351 C19 7307 M13
- 2352 I19 BU1 F 3
- 2353 B19 BU2 E23
- 2354 H19 BU3 K 1
- 2355 D18 BU3 O 1
- 2356 I18 BU5 A21
- 2357 O12 BU6 J21
- 2358 K13 SK-1 M19
- 2359 L14 SK77 C 5
- 2364 L15 SK77 J 5
- 2365 K14 SK77 K 5
- 2366 K16 SK77 D 5
- 2367 N14
- 2368 N13
- 2369 N11
- 2370 M13
- 2375 D12
- 2377 O13
- 2378 K 2
- 2385 B23
- 2386 J23
- 2403 C14
- 2404 I14
- 2405 D 3
- 2406 K 3
- 2409 B13
- 2410 H13
- 2414 H 6
- 2415 C 6
- 2418 I21
- 2419 C21
- 2423 D 2
- 2424 K 2
- 2425 C20
- 2426 I20
- 2430 H19
- 2431 B19
- 2435 A14
- 2437 F 5
- 2438 J14
- 2439 E14
- 2441 B 4
- 2442 I 4
- 2443 O 6
- 2444 I 6
- 3301 C 6
- 3302 I 6
- 3305 D 5
- 3306 H 5
- 3307 B 6
- 3308 H 6
- 3310 H 6
- 3312 B 6
- 3313 D 8
- 3314 J 8
- 3315 J 7
- 3315 D 7
- 3317 C 8
- 3318 I 8
- 3319 A12
- 3320 F12
- 3321 A12
- 3322 F12
- 3325 J 8
- 3325 D 8
- 3329 A12
- 3330 G12
- 3331 A12
- 3332 G12
- 3335 J 9
- 3335 D 9
- 3339 B12
- 3340 H12
- 3341 G12
- 3342 H12
- 3345 D10
- 3345 J10
- 3349 C12
- 3350 I12
- 3351 C12
- 3352 I12
- 3353 D12
- 3354 I12
- 3355 J10
- 3355 O10
- 3357 C13
- 3358 H13
- 3359 A13
- 3360 G13
- 3361 L12
- 3362 L12
- 3363 B15
- 3364 H15
- 3365 C15
- 3366 I15
- 3367 B15

AF part

7301

- e 0.65 V
- b 7 V
- c 7 V

7302

- e 0.65 V
- b 7 V
- c 7 V

7303

- 1 7.5 V
- 2 6 V
- 3 7.3 V
- 4 15 V
- 5 7.3 V
- 6 6 V
- 7 7.5 V
- 8 15 V

7305

- 1 15 V
- 2 17 V
- 3 17 V
- 4 17 V
- 5 35 V

7306

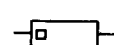
- 1 15 V
- 2 17 V
- 3 17 V
- 4 17 V
- 5 35 V

7307

- e 15 V
- b 16.5 V
- c 34 V



Carbon film
0.2 W 70°C 5%



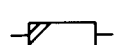
Carbon film
0.33 W 70°C 5%



Metal film
0.33 W 70°C 5%



Carbon film
0.5 W 70°C 5%



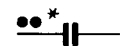
Carbon film
0.67 W 70°C 5%



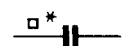
Carbon film
1.15 W 70°C 5%



Ceramic plate
Tuning ≤ 120 pF NP.0 2%
Others -20/+80%



Polyester flat foil 10%



Metalized polyester
flat film 10%



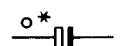
Polyester flat foil
small size (Mylar) 10%



Polystyrene film/foil 1%



Tubular ceramic

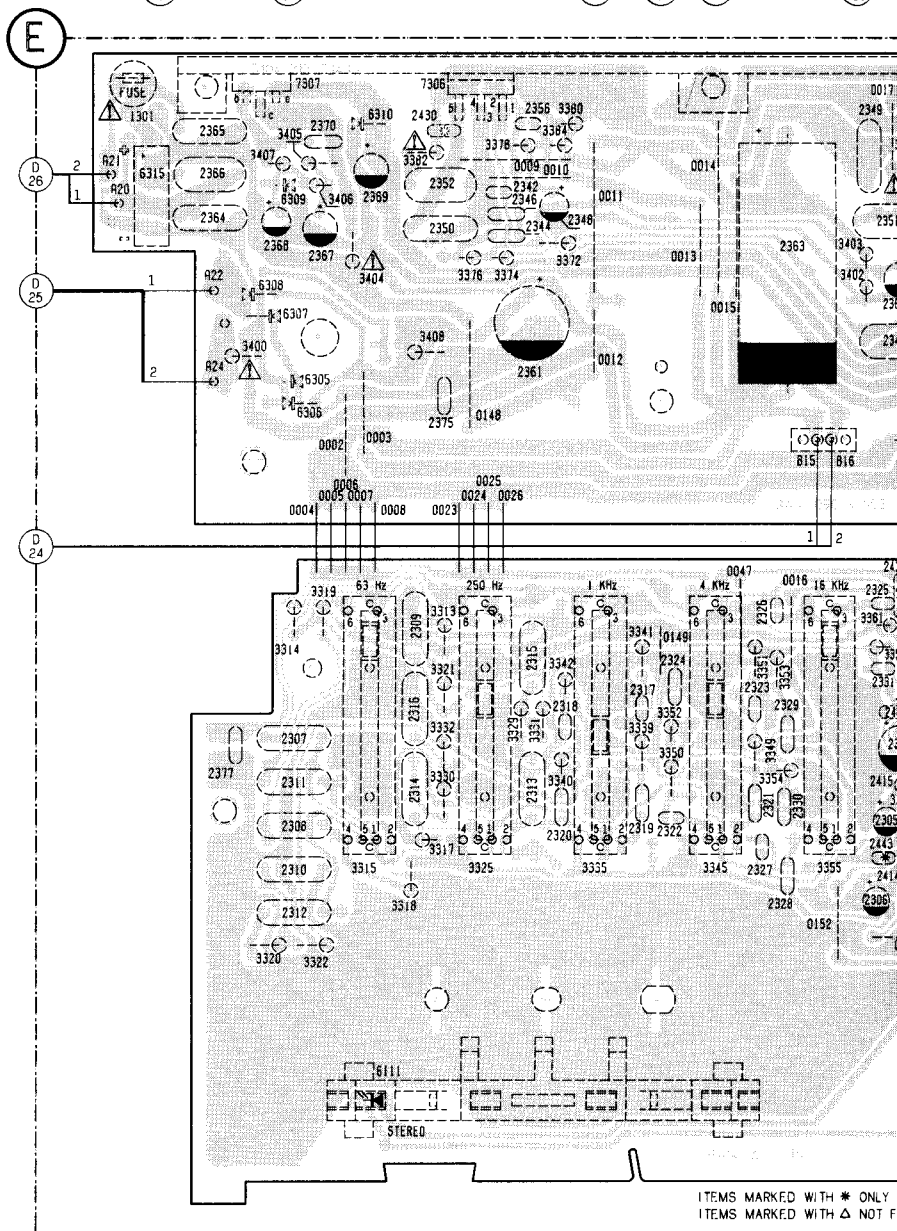
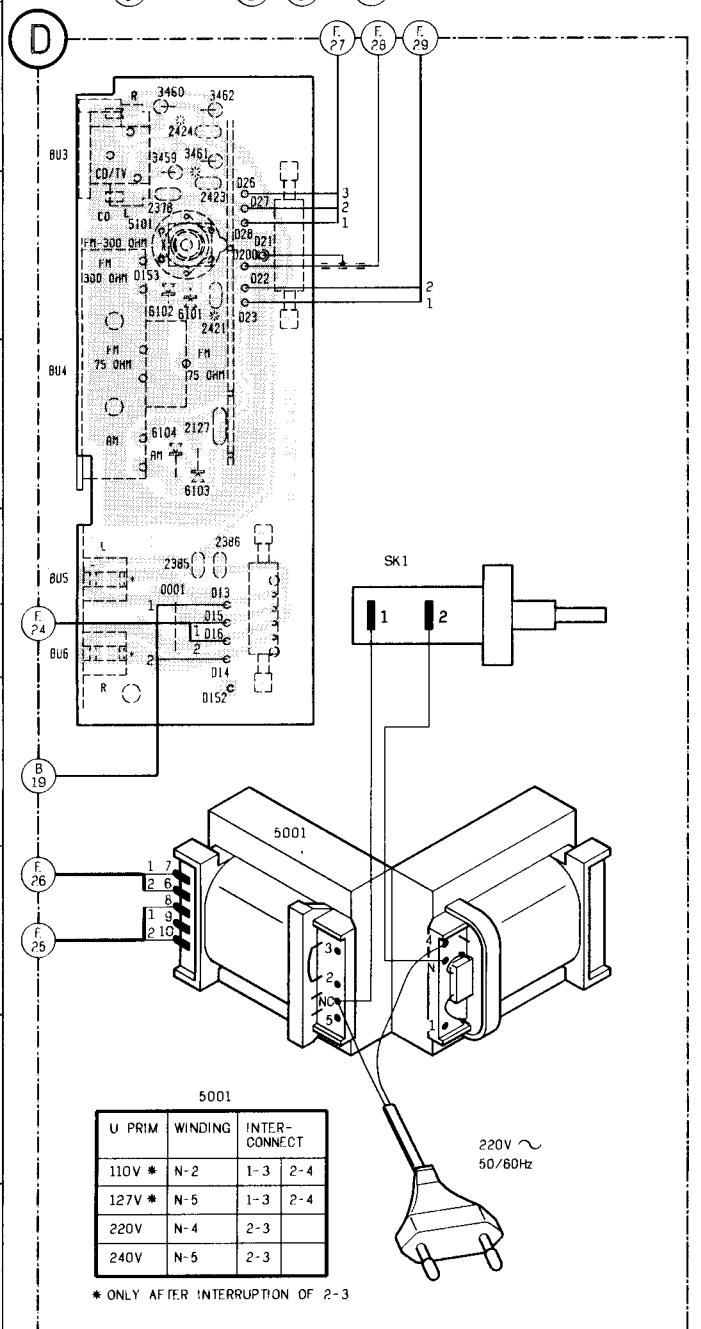
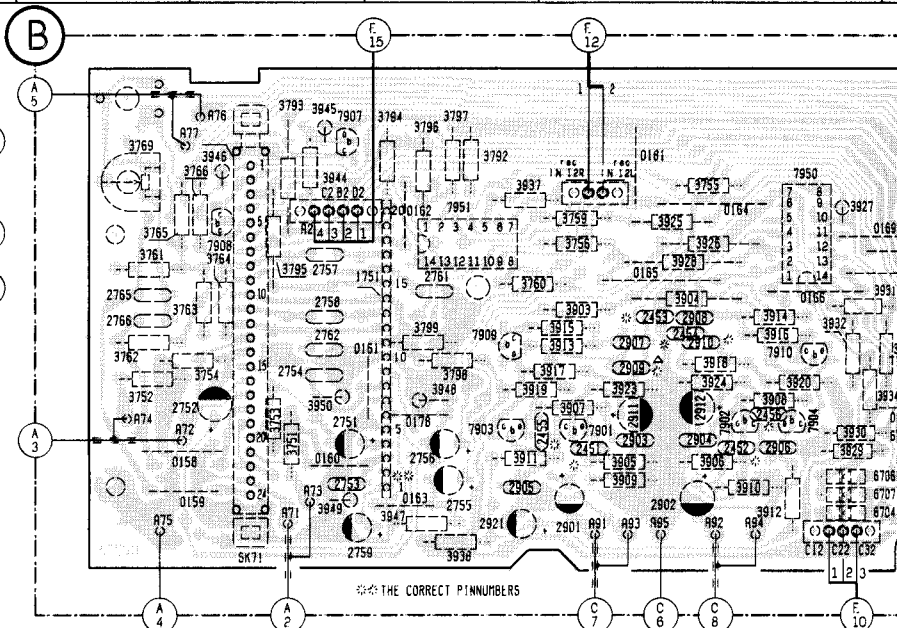
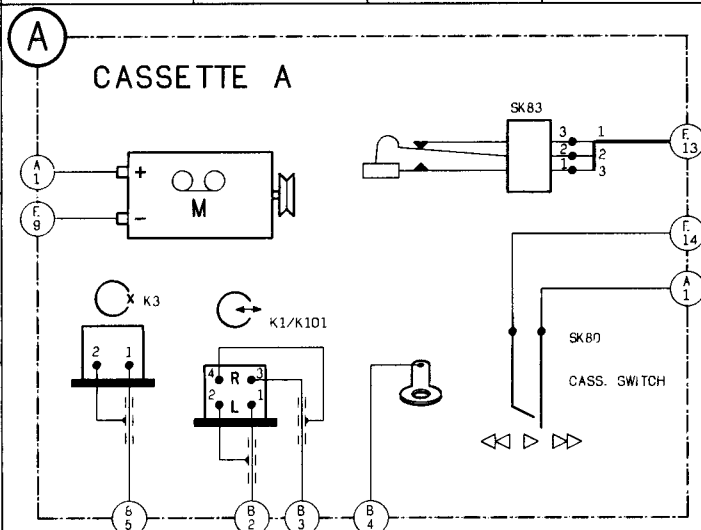


Miniature single

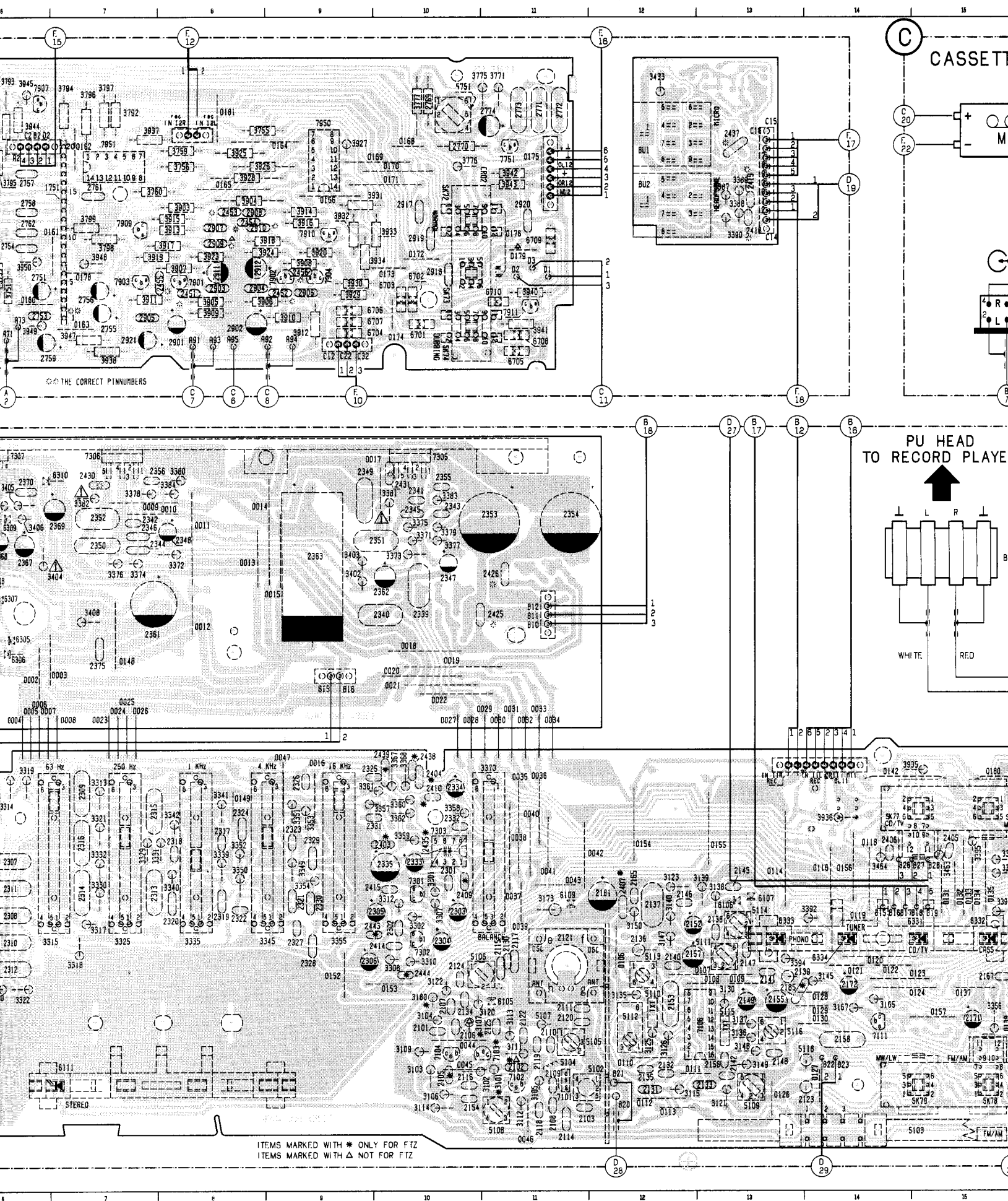


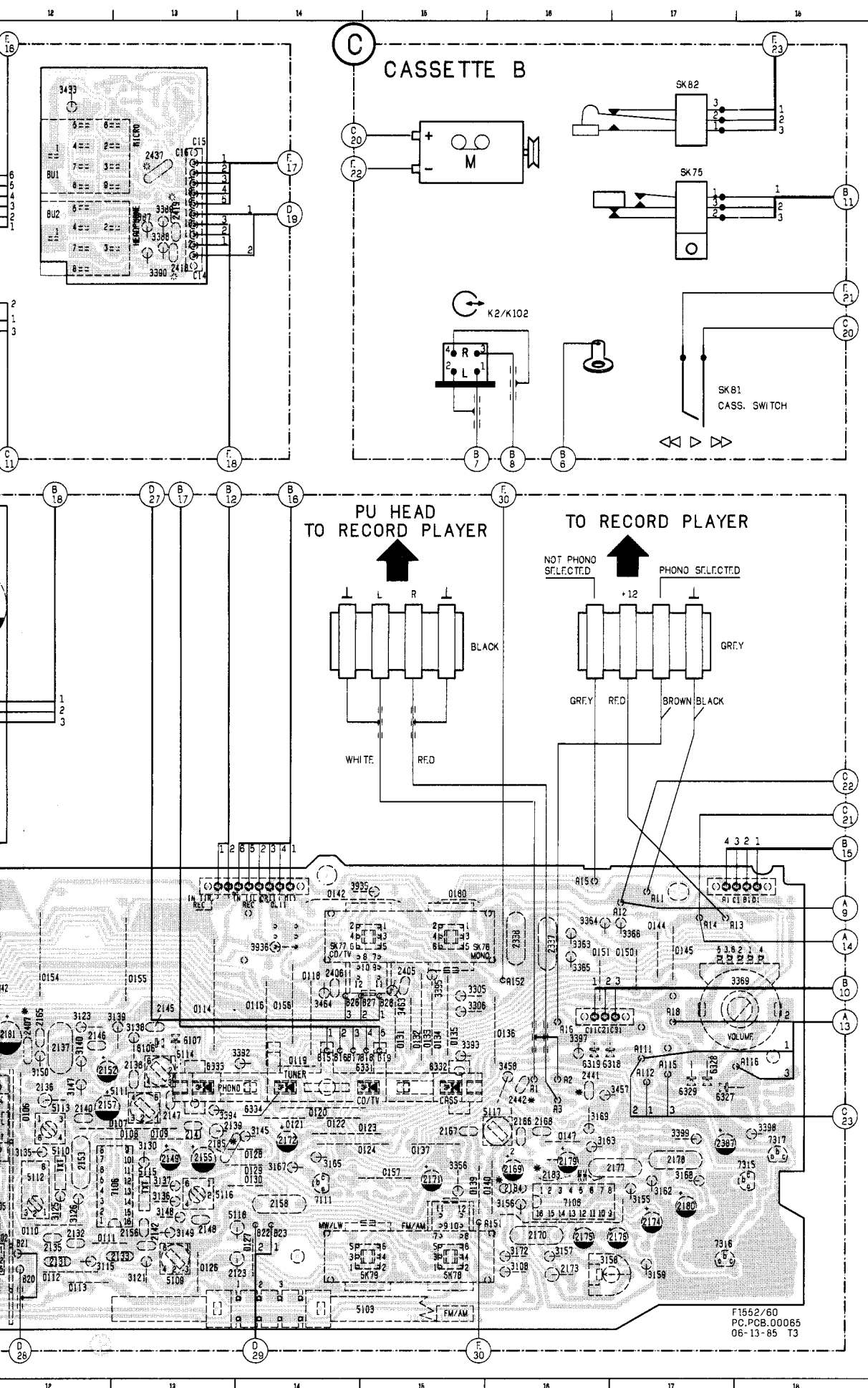
Subminiature
tantalum ± 20%

- *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
- i = 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

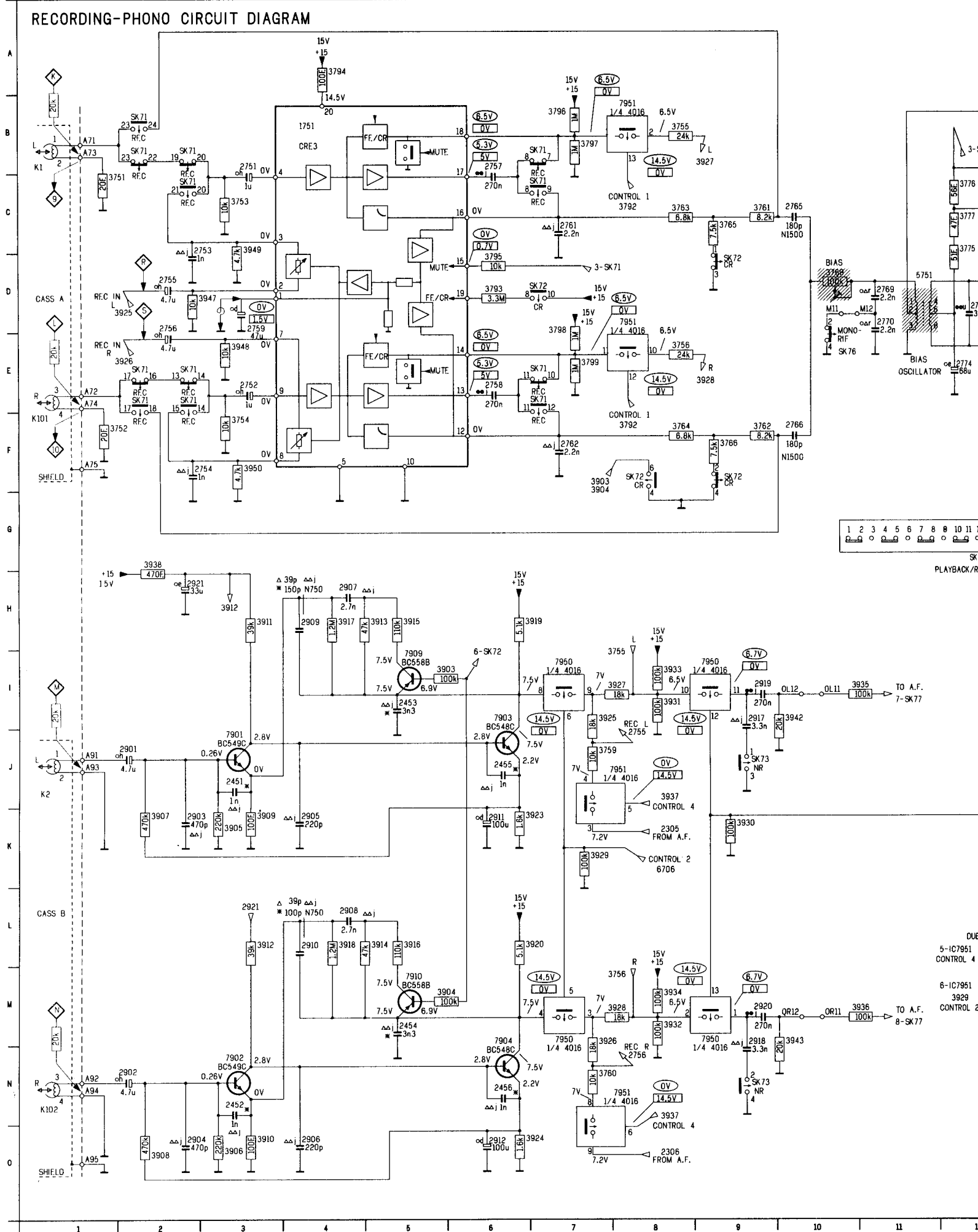


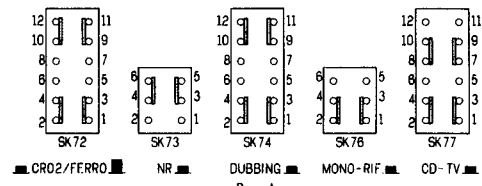
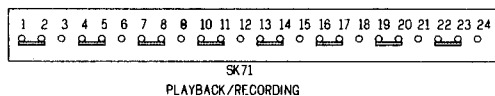
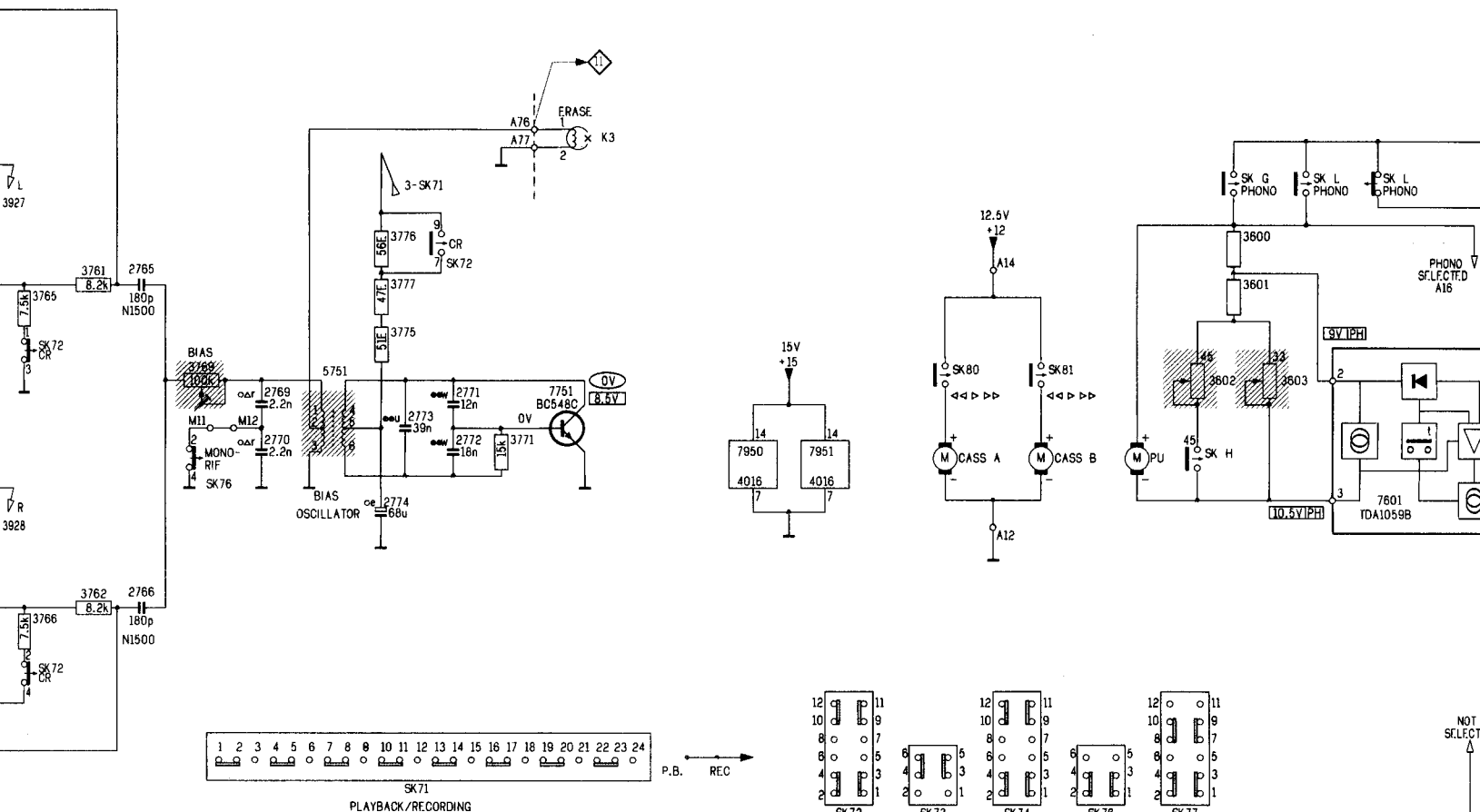
ITEMS MARKED WITH * ONLY
ITEMS MARKED WITH Δ NOT F





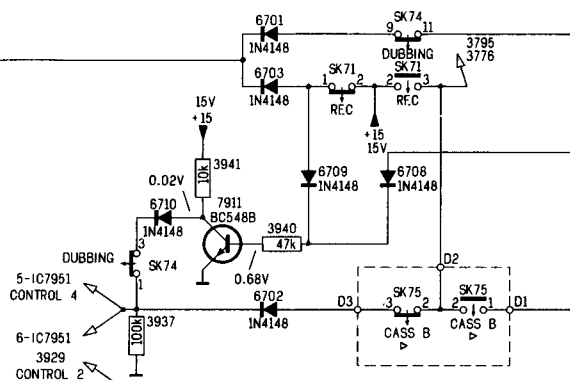
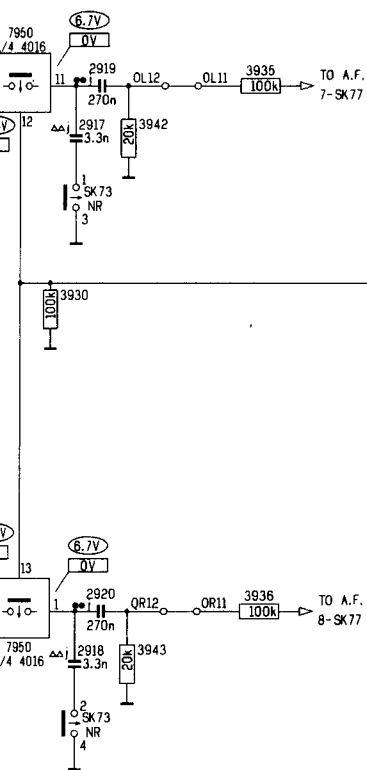
1	2	3	4	5	6	7	8	9	10	11	12
---	---	---	---	---	---	---	---	---	----	----	----





Service hint:

Upon repairing the T.A.C. (detached from the recorder-player) A15-grey (not phono selected) must be connected with A13-red (+12).



CONTROL 1

12.13-IC7951

12.13-IC7951

12.13-IC7951

12.13-IC7951

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12.13-IC7951

12.13-IC7951

12.13-IC7951

12.13-IC7951

-ITEMS MARKED WITH: *ONLY FOR FTZ

A NOT FOR FTZ



...V ANY POSITION

...V RECORDING

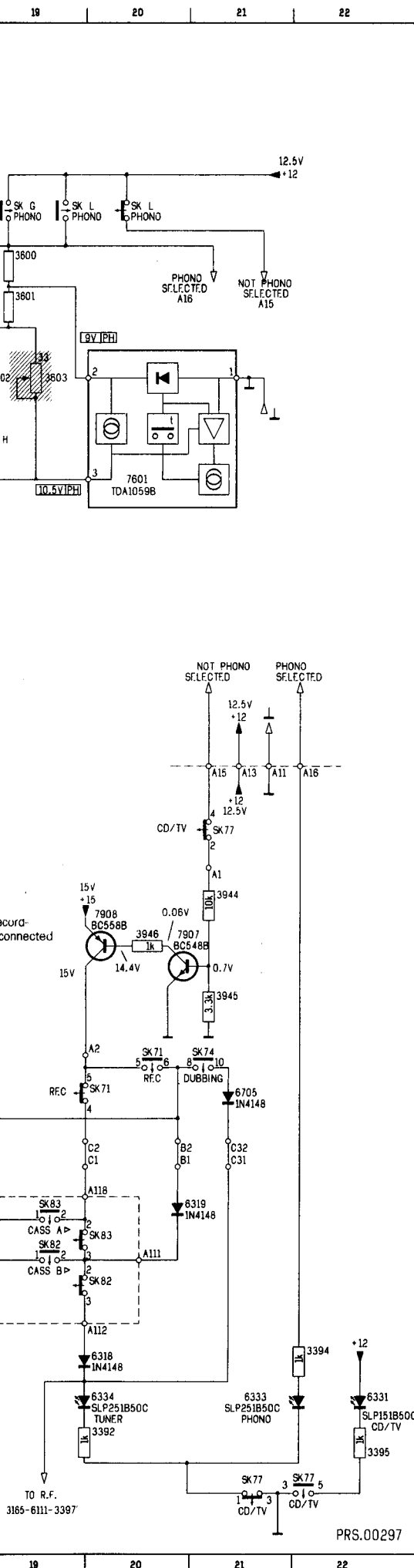
...V PLAYBACK

-UNLESS STATED OTHERWISE ALL FIXED RESISTORS

ARE FILM RESISTORS - SFR25 PM5

-SWITCHES DRAWN IN REST POSITION

TO R.F.
3165-6111-3397



2451	J	3	7751	D13
2452	N	3	7901	J
2453	I	5	7902	N
2454	M	5	7903	I
2455	J	6	7904	M
2456	N	6	7907	I
2751	E	3	7908	I
2752	C	3	7909	I
2753	C	3	7910	M
2754	F	3	7911	L
2755	O	2	7950	M
2756	O	2	7951	I
2757	E	6	7952	I
2758	E	6	7953	M
2759	C	7	7954	B
2761	C	7	7955	D
2762	F	7	7956	N
2765	C	10	7957	J
2766	F	10	7958	B
2769	D	11	7959	E
2770	D	11	7960	D
2771	D	12	7961	B
2772	D	12	7962	B
2773	D	12	7963	B
2774	E	12	7964	C
2901	J	2	7965	E
2902	N	2	7966	E
2903	K	2	7967	E
2904	O	2	7968	E
2905	K	4	7969	D
2906	O	4	7970	E
2907	H	4	7971	E
2908	L	4	7972	E
2909	H	4	7973	K
2910	L	4	7974	K
2911	K	6	7975	K
2912	O	6	7976	K
2917	I	9	7977	D
2918	M	9	7978	D
2919	I	9	7979	F
2920	M	9	7980	J
2921	H	2	7981	N
3392	N	20	7982	J
3393	N	18	7983	L
3394	N	22	7984	L
3395	N	22	7985	L
3600	C	19	7986	L
3601	C	19	7987	E
3602	D	19	7988	H
3603	D	19	7989	D
3751	C	2	7990	O
3752	F	2	7991	O
3753	C	3	7992	M
3754	F	3	7993	L
3755	B	8	7994	L
3756	E	8	7995	L
3759	J	7	7996	L
3760	N	7	7997	L
3761	C	9	7998	L
3762	F	9	7999	L
3763	F	9	8000	L
3764	F	9	8001	L
3765	C	9	8002	L
3766	F	9	8003	L
3767	F	9	8004	L
3768	F	9	8005	L
3769	O	10	8006	L
3770	O	10	8007	L
3771	D	13	8008	L
3772	C	12	8009	L
3773	C	12	8010	L
3774	C	12	8011	L
3775	C	12	8012	L
3776	C	12	8013	L
3777	C	12	8014	L
3778	D	6	8015	L
3779	D	6	8016	L
3780	R	4	8017	L
3781	R	4	8018	L
3782	D	6	8019	L
3783	D	6	8020	L
3784	R	4	8021	L
3785	D	6	8022	L
3786	B	7	8023	L
3787	B	7	8024	L
3788	D	7	8025	L
3789	E	7	8026	L
3790	I	5	8027	L
3791	M	5	8028	L
3792	K	3	8029	L
3793	K	3	8030	L
3794	K	3	8031	L
3795	K	3	8032	L
3796	K	3	8033	L
3797	K	3	8034	L
3798	K	3	8035	L
3799	K	3	8036	L
3800	K	3	8037	L
3801	K	3	8038	L
3802	K	3	8039	L
3803	K	3	8040	L
3804	K	3	8041	L
3805	K	3	8042	L
3806	K	3	8043	L
3807	K	3	8044	L
3808	K	3	8045	L
3809	K	3	8046	L
3810	K	3	8047	L
3811	K	3	8048	L
3812	K	3	8049	L
3813	K	3	8050	L
3814	K	3	8051	L
3815	K	3	8052	L
3816	K	3	8053	L
3817	K	3	8054	L
3818	K	3	8055	L
3819	K	3	8056	L
3820	K	3	8057	L
3821	K	3	8058	L
3822	K	3	8059	L
3823	K	3	8060	L
3824	K	3	8061	L
3825	K	3	8062	L
3826	K	3	8063	L
3827	K	3	8064	L
3828	K	3	8065	L
3829	K	3	8066	L
3830	K	3	8067	L
3831	K	3	8068	L
3832	K	3	8069	L
3833	K	3	8070	L
3834	K	3	8071	L
3835	K	3	8072	L
3836	K	3	8073	L
3837	K	3	8074	L
3838	K	3	8075	L
3839	K	3	8076	L
3840	K	3	8077	L
3841	K	3	8078	L
3842	K	3	8079	L
3843	K	3	8080	L
3844	K	3	8081	L
3845	K	3	8082	L
3846	K	3	8083	L
3847	K	3	8084	L
3848	K	3	8085	L
3849	K	3	8086	L
3850	K	3	8087	L
3851	K	3	8088	L
3852	K	3	8089	L
3853	K	3	8090	L
3854	K	3	8091	L
3855	K	3	8092	L
3856	K	3	8093	L
3857	K	3	8094	L
3858	K	3	8095	L
3859	K	3	8096	L
3860	K	3	8097	L
3861	K	3	8098	L
3862	K	3	8099	L
3863	K	3	8100	L

Recording and Phono-part

1751

1	0 V	1.5 V
2	0 V	
3	0 V	
4	0 V	
5	⊥	
6	-	
7	0 V	
8	0 V	
9	0 V	
10	⊥	
11	-	
12	0 V	
13	5.3 V	5 V
14	6.5 V	0 V
15	0 V	0.7 V
16	0 V	
17	5.3 V	5 V
18	6.5 V	0 V
19	-	
20	14.5 V	

7601

1	⊥
2	9 V PH
3	10.5 V PH

7751

e	⊥
b	0 V
c	0 V 8.5 V

7901

e	0 V
b	0.26 V
c	2.8 V

7902

e	0 V
b	0.26 V
c	2.8 V

7903

e	2.2 V
b	2.8 V
c	7.5 V

7904

e	2.2 V
b	2.8 V
c	7.5 V

7907

e	⊥
b	0.7 V
c	0.06 V

7908

e	15 V
b	14.4 V
c	15 V

7909

e	7.5 V
b	6.9 V
c	7.5 V

7910

e	7.5 V
b	6.9 V
c	7.5 V

7911

e	⊥
b	0.68 V
c	0.02 V

7950

1	6.7 V	0 V
2	6.5 V	
3	7 V	
4	7.5 V	

5	14.5 V	0 V
6	14.5 V	0 V

7	⊥
8	7.5 V
9	7 V
10	6.5 V

11	6.7 V	0 V
12	14.5 V	0 V
13	14.5 V	0 V

14	15 V
----	------

7951

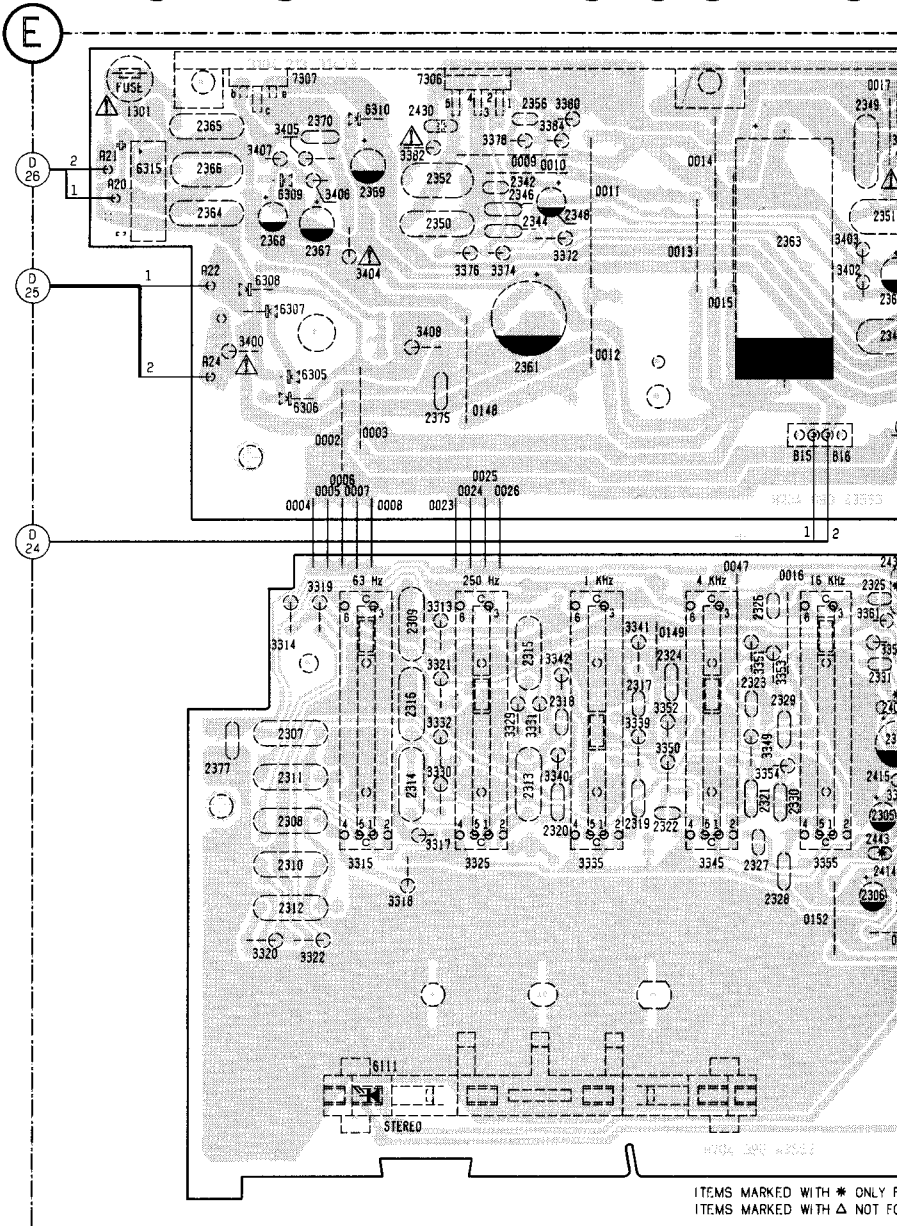
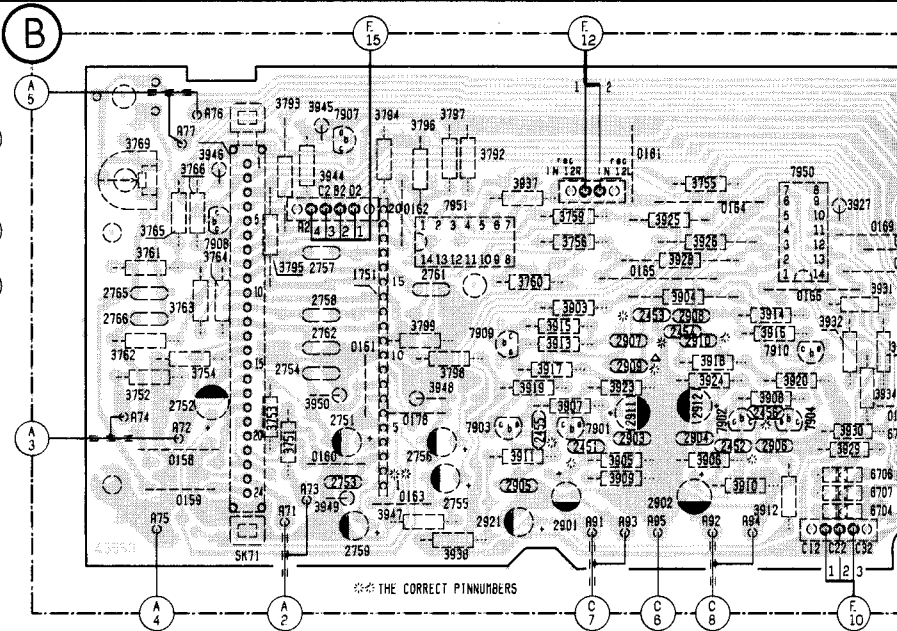
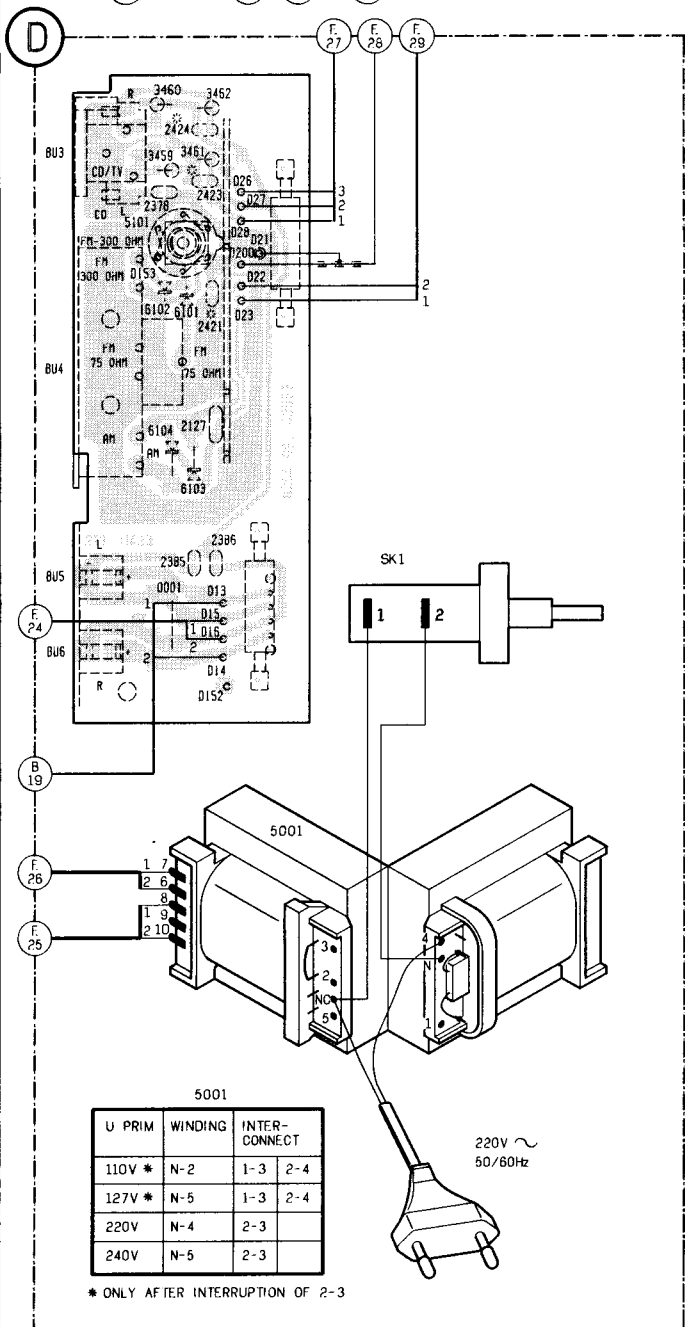
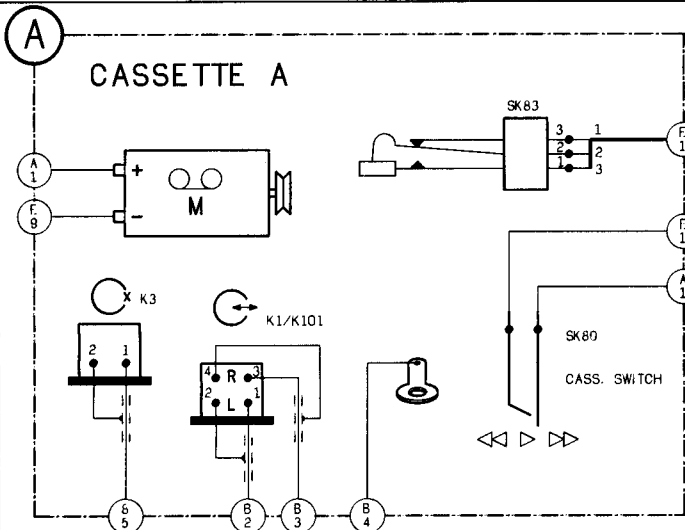
1	6.5 V	0 V
2	6.5 V	
3	7.2 V	
4	7 V	

5	0 V	14.5 V
6	0 V	14.5 V

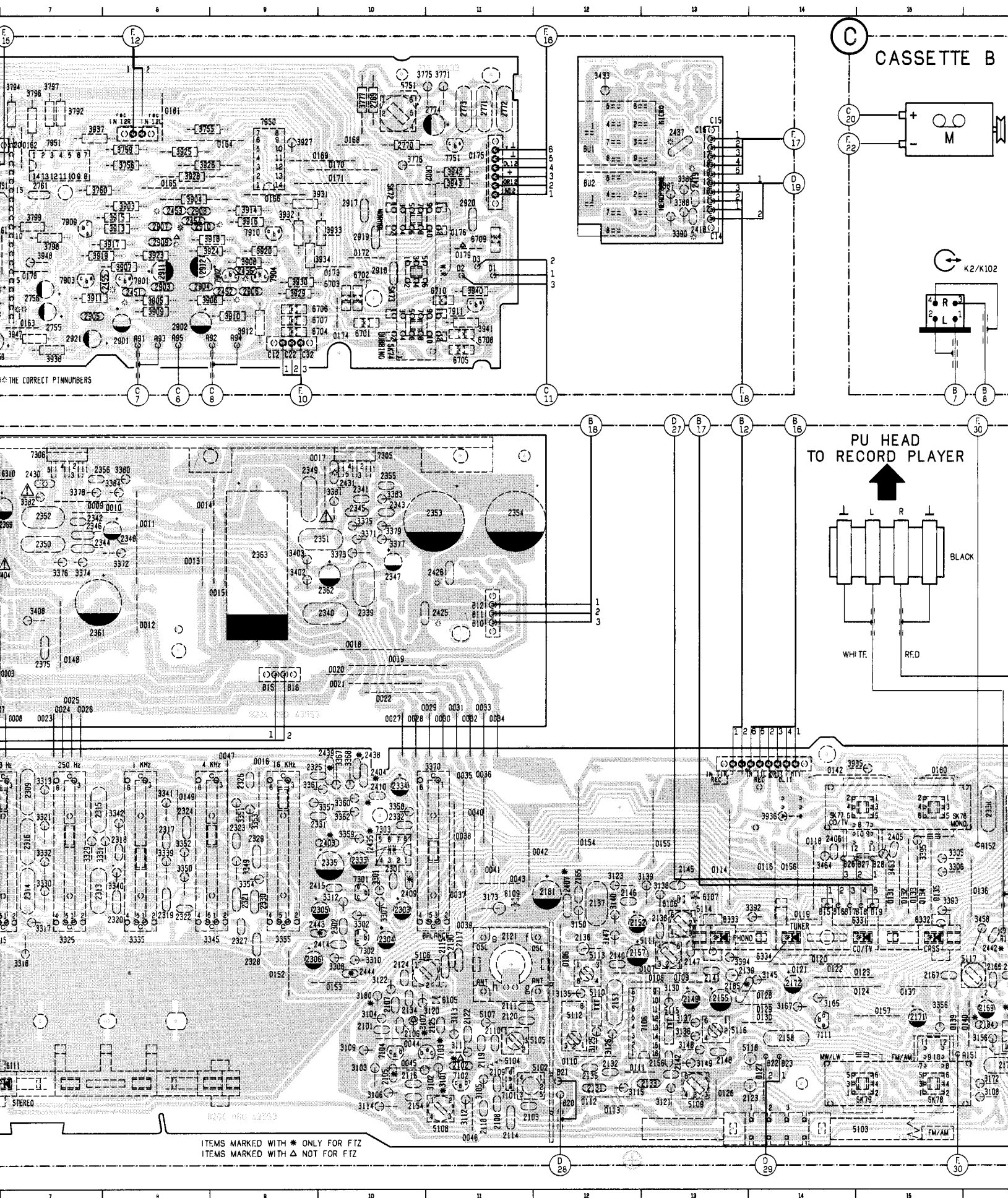
7	⊥
8	7 V
9	7.2 V
10	6.5 V

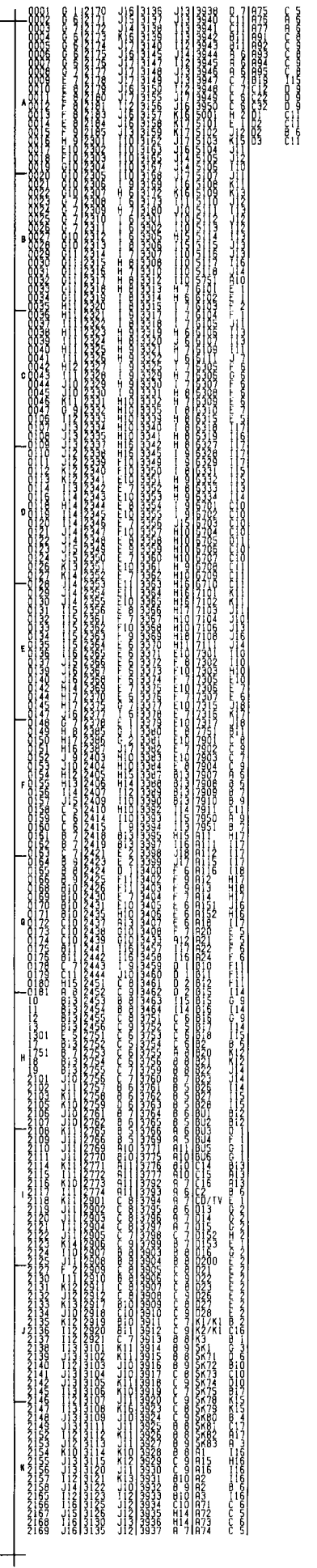
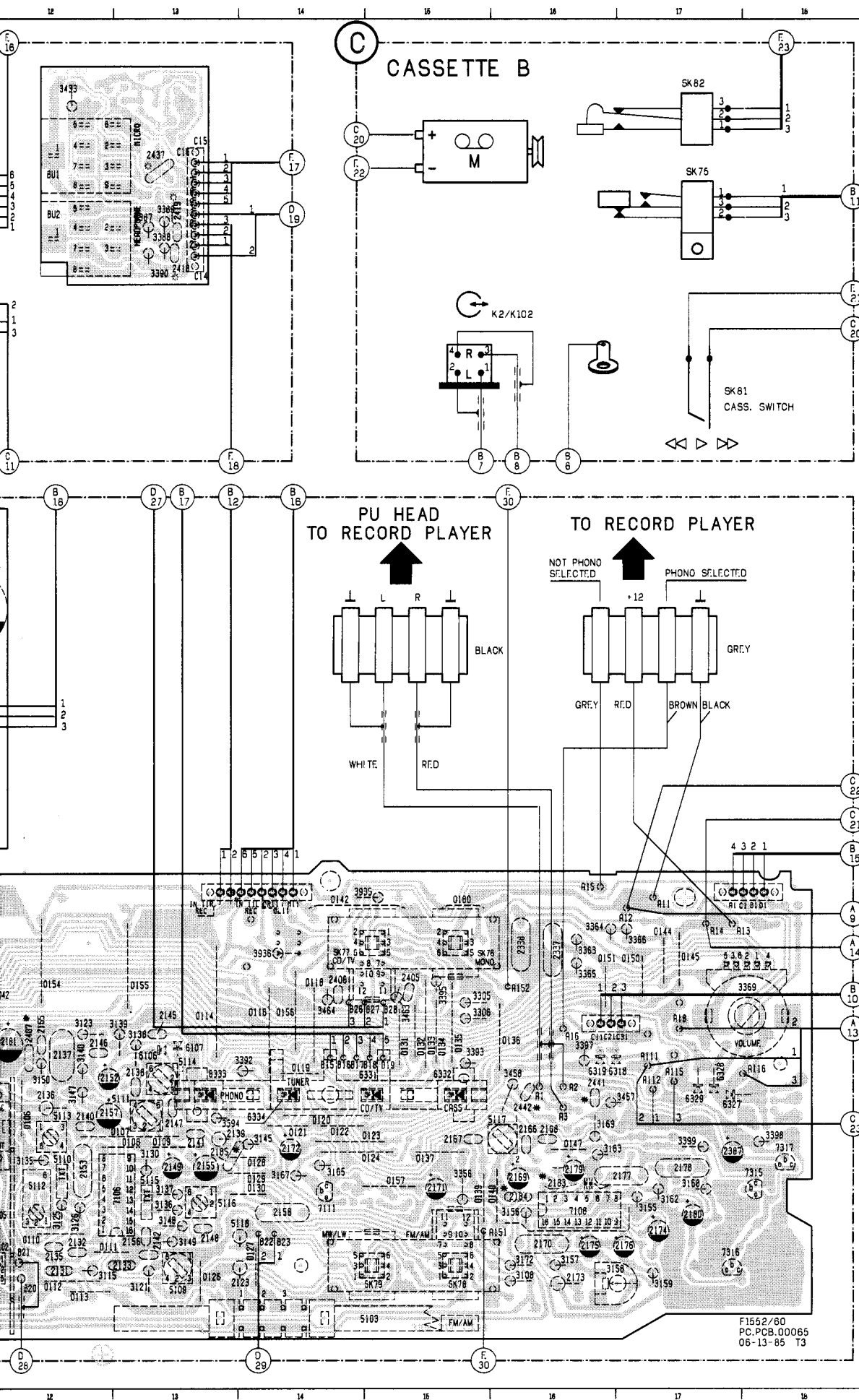
11	6.5 V	0 V
12	14.5 V	0 V
13	14.5 V	0 V

14	15 V
----	------



ITEMS MARKED WITH * ONLY FOR
ITEMS MARKED WITH Δ NOT FOR





ALIGNMENT










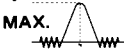



General

- During the alignment, keep the levels of the injected signals as low as possible.
- Alignment of IF stages requires a sweep signal.
For FM: Apply a 10.7 MHz signal with a sweep of 300 kHz at a frequency of 50 Hz.
For AM: Apply a 450 kHz (468 kHz) signal with a sweep of 10 kHz at a frequency of 50 Hz.
- Switch SK76 position: stereo.


Equipment required

- RF generator
- Oscilloscope
- DC-millivoltmeter
- AC-millivoltmeter
- Frequency counter




FM-IF

SK				DETUNE			
switch	signal	to	tune in		adjust	oscilloscope	DC mV meter
FM SK-78	10.7 MHz Δf 300 kHz (50 Hz)			<div><div>A</div><div>B</div></div>		<div><div>2</div><div>1</div></div> <div>center</div>  <div>fo</div>	
	fo=f generator Δf = 10 kHz (50 Hz)				5108	<div><div>2</div><div>2</div></div> <div>symmetrical</div> <div>MAX.</div> 	
	10.7 MHz Δf 300 kHz (50 Hz) 1 mV				5114 5111	<div><div>3</div><div>3</div></div> <div>symmetrical</div> 	
	10.7 MHz No sweep				5114		DC  0 V \pm 30 mV
							


FM-oscillator

FM SK-78	87.63 MHz mod. 1 kHz Δf 22.5 kHz		max. cap. 2121		5106	<div><div>3</div></div> <div>max. ~</div>	
	108.0 MHz mod. 1 kHz Δf 22.5 kHz		min. cap. 2121		2121e		


FM-RF antenna section

FM SK-78	87.63 MHz mod. 1 kHz Δf 22.5 kHz				5105	<div><div>3</div></div> <div>max. ~</div>	
	108.0 MHz mod. 1 kHz Δf 22.5 kHz				2121h		
							


Stereo-decoder

FM SK-78	No signal				3158	Counter  19 kHz \pm 100 Hz	
-------------	-----------	--	--	--	------	--	--


GB

- 1 Place the peak of the band-pass curve in the middle of the picture by shifting the sweep frequency.
- 2 Adjust for maximum height and symmetry.
- 3 Adjust for linearity and symmetry of the S-curve.
- A Switch off A.F.C. by short-circuiting 2137.
- B Open solder bridge .


NL

- 1 De top van de doorlaat curve, door verschuiven van wobbelfrequentie, in het midden van het scherm plaatsen.
- 2 Afregelen op maximum hoogte en symmetrie.
- 3 Afregelen op lineariteit en symmetrie van de S-kurve.
- A A.F.C. uitschakelen door 2137 kort te sluiten.
- B Open soldeerbrug .












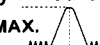


F

- 1 En décalant la fréquence de wobulation, placer la crête de la courbe de réponse au centre de l'écran.
- 2 Ajuster pour avoir une courbe d'amplitude maximale et de bonne symétrie.
- 3 Ajuster pour avoir une courbe en S de bonne linéarité et de bonne symétrie.
- A Mettre la C.A.F. hors service en court-circuitant, le condensateur 2137.
- B Ouvrir le pontet .



I

- 1 Portare la cresta della curva di risposta al centro dello schermo per mezzo di scivolamento della frequenza di modulazione.
- 2 Regolare per altezza e simmetria massima.
- 3 Regolare per linearità e simmetria della curva ad S.
- A Mettere il C.A.F. fuori funzionamento cortocircuitando il condensatore 2137.
- B Aprire il ponticello .




AM-IF

SK						
switch	signal	to	tune in	adjust	oscilloscope	AC mV meter
AM SK-78 MW SK-79	450 kHz Δf 10 kHz (50 Hz)		2121 max. cap.	 center  fo	   Symmetrical  	
	fo=f generator Δf = 10 kHz (50 Hz)			5112 5116		

AM-RF-oscillator

AM SK-78 LW SK-79	147 kHz mod: 1 kHz 30%		2121 max. cap.	5113		 max. ~
AM SK-78 MW SK-79	1635 kHz mod: 1 kHz 30%		2121 min. cap.	2121f		

AM-RF-antenna section

AM SK-78 MW SK-79	560 kHz mod: 1 kHz 30%			5103		 max. ~
	1500 kHz mod: 1 kHz 30%			2121g		
AM SK-78 LW SK-79	155 kHz mod: 1 kHz 30%			5109		

Repeat - Herhalen - Répéter - Wiederholen - Ricominciare

D

- 1** Die Spitze der Durchlasskurve in der Mitte des Bildes legen dadurch, dass man die Wobelfrequenz verschiebt.
- 2** Abgleichen auf Maximalhöhe und Symmetrie.

Abgleichen auf Linearität und Symmetrie der S-Kurve.

GB Electrical measurements and adjustments "Recorder"

- A**– The maximum permissible speed deviation is $\pm 2\%$. Moreover, the wow and flutter value can be read.
 - This value should not exceed 0.35%.
- B**– Connect the Service cassette set to the apparatus via one of the loudspeaker connectors.
 - Set the apparatus to the play back position with the 50 Hz cassette from the cassette service set.
 - With R at the back of the motor, adjust for minimum variation of the indicator reading.
- C**– If the accuracy requirements are less stringent a high quality ferro (normal) cassette may be used as an alternative.
- D**– If the adjustment is correct the frequency response curve will be similar to curve b in Fig. 2 (distortion $\leq 5\%$).
- E**– Switch off A.L.C. by short-circuiting electrolytic capacitor 2759.
- F**– Mount a resistor of 20E between point 2(4) of K2 (K102) and A93 (A94).

F Mesurer electriques et reglages "Recorder"

- A**– L'écart de vitesse maximum admissible est de $\pm 2\%$. Le taux de pleurage pourra également être lu lors de cette mesure.
 - Cette valeur ne doit pas dépasser 0,35%.
- B**– Relier par l'intermédiaire d'un des connecteurs de haut-parleur la section cassette Service à l'appareil.
 - Positionner en reproduction et faire passer une cassette 50 Hz de la section cassette Service.
 - Régler grâce à R à l'arrière du moteur pour que la variation sur l'indicateur soit minimum.
- C**– Si les exigences du point de précision, ne sont pas tellement élevées, une cassette au ferro (normale) de bonne qualité, pourra également convenir.
- D**– Si le réglage est correctement effectué, la courbe de fréquence devra être égale à la courbe b de la Fig. 2 (distorsion $\leq 5\%$).
- E**– Mettre la A.L.C. hors service en court-circuitant le condensateur chimique 2759.
- F**– Monter une résistance de 20E entre le point 2(4) de K2 (K102) et A93 (A94).

- A** A.F.C.-Regelung ausschalten durch kurzschluss von 2137.

- B** Lötbrücke  öffnen.

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

>87.2 MHz <108.5 MHz.

NL Elektrische metingen en instellingen "Recorder"

- A**– De hoogst toelaatbare snelheidsafwijking bedraagt $\pm 2\%$.
Tevens kan bij deze meting de jengelwaarde afgelezen worden.
 - Deze waarde mag niet hoger zijn dan 0.35%.
- B**– Via een van de luidsprekerconnectors het Service-cassettedeel met het apparaat verbinden.
 - Zet het apparaat in de weergeefstand met de 50 Hz cassette uit het Service-cassettedeel.
 - Met R aan de achterzijde van de motor op minimale variatie van de indicatoraflezing instellen.
- C**– Als de nauwkeurigheidseisen minder streng zijn, kan als alternatief een ferro-cassette (normal) van hoge kwaliteit gebruikt worden.
- D**– Als de instelling juist is, zal de frequentiekromme gelijk zijn aan kromme b in Fig. 2 (vervorming $\leq 5\%$).
- E**– A.L.C. regeling uitschakelen door elco 2759 kort te sluiten.
- F**– Plaats een weerstand van 20E tussen punt 2(4) van K2 (K102) en A93 (A94).




















D Elektrische Messungen und Einstellungen "Recorder"

- A**– Die höchstzulässige Geschwindigkeitsabweichung beträgt $\pm 2\%$.
Auch lässt sich bei dieser Messung der Jaulwert ablesen.
 - Dieser Wert darf 0,35% nicht überschreiten.
- B**– Über einen der Lautsprecherkonnektoren den Service-Cassetten teil mit dem Gerät verbinden.
 - Mit dem 50-Hz-Cassette aus dem Service-Cassetten teil das Gerät in die Wiedergabestellung bringen.
 - Mit R auf der Rückseite des Motors auf Mindest-Schwankung der Anzeigerablesung einstellen.
- C**– Wenn die Genauigkeitsanforderungen weniger streng sind, kann als Alternative eine Hochleistungs-Ferrocassette (Normal) benutzt werden.
- D**– Wenn die Einstellung richtig ist, wird der Frequenzgang gleich der kurve b in Bild 2 (Verzerrung $\leq 5\%$) sein.
- E**– A.L.C. ausschalten durch Kurzschluss von Elko 2759.
- F**– Einer Widerstand von 20E zwischen Punkt 2(4) von K2 (K102) und A93 (A94) montieren.

I Misure e regolazioni elettriche "Recorder"

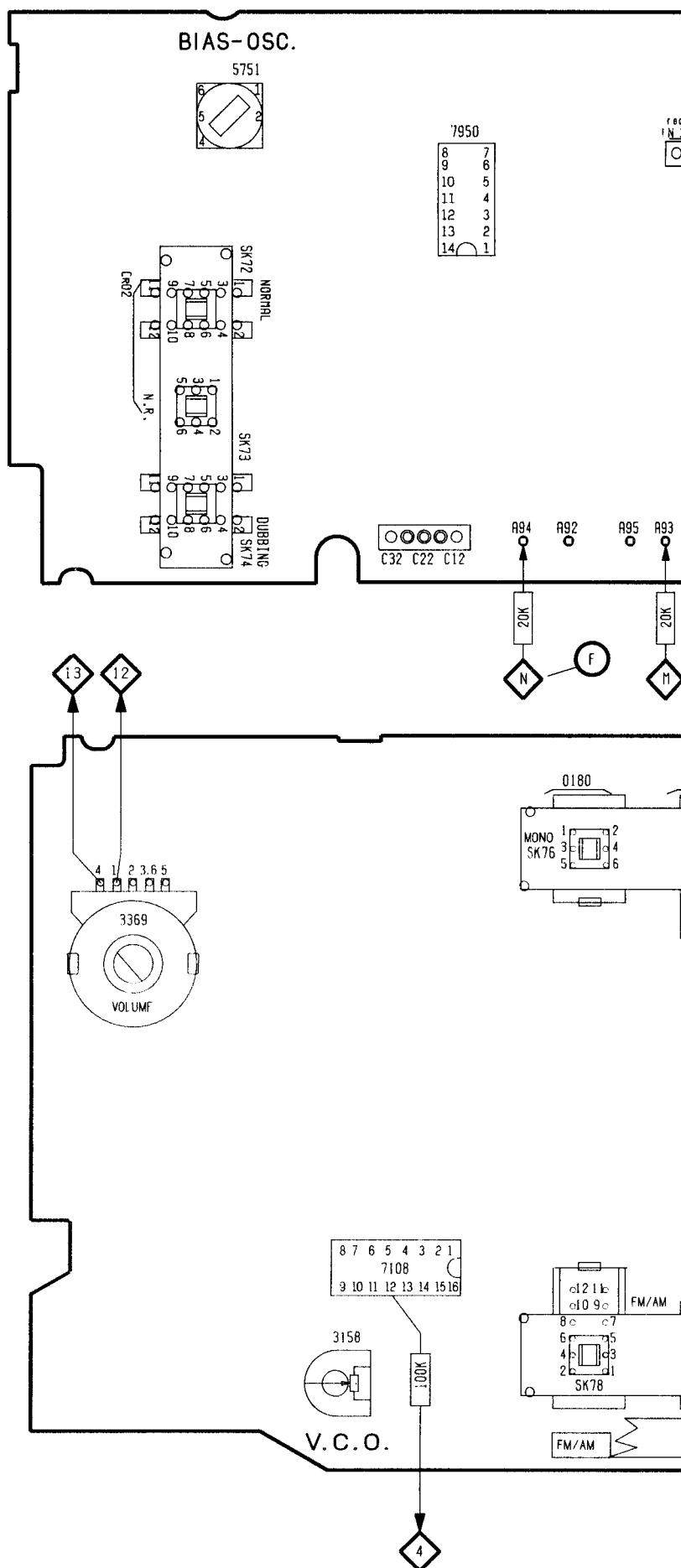
- (A)** – La deviazione massima di velocità è $\pm 2\%$. Inoltre, può essere rilevato il wow e flutter.
– Questo valore non deve eccedere dello 0,35%.
- (B)** – Collegare lo strumento di servizio al connettore di uscita di una cassa acustica dell'apparecchio.
– Posizionare l'apparecchio in riproduzione e usare la cassetta test a 50 Hz.
– Regolare la velocità del motore (R), per la minima deviazione dello strumento.
- (C)** – Per necessità può essere usata una cassetta di alta qualità al ferro (normale).
- (D)** – Se la regolazione è corretta la curva di risposta in frequenza sarà simile alla curva b in Fig. 2 (distorsione $\leq 5\%$).
- (E)** – Mettere il C.A. fuori funzionamento cortocircuitando il condensatore 2759.
- (F)** – Montare una resistenza di 20E fra il punto 2(4) di K2 (K102) e A93 (A94).

Recorder A and B

Adjustment	Cassette	Recorder in position SK..	Apply signal to	Measure on	Read on	Adjust with	Adjust to
Playback speed Method 1 or Method 2	3150 Hz part of SBC420Fe	PLAY	–	Loudspeaker output or  ()	Wow and flutter meter	Trimpotmeter R at the back of the motor	(A)
	Test cassette set 801/CCS	PLAY	–	Loudspeaker output	indicator on test set	Trimpotmeter R at the back of the motor	(B)
Azimuth R/P head	8 kHz part of SBC420Fe	PLAY	–	 ()	AC mV meter or oscilloscope	Left screw on R/P head	Max. output
Static playback	–	PLAY (F) only rec B	 () A  () B 170 mV-315 Hz via 20 k Ω	 ()	AC mV meter > 100 mV	–	
Playback sensitivity	315 Hz-0 dB part of SBC420Fe	PLAY	–	 ()	AC mV meter > 300 mV	–	
BIAS oscillator frequency only rec. A	Any cassette	RIF SK-76 OFF REC+PLAY	–		Frequency counter	5751	55 kHz
Target value BIAS only rec. A	SBC420Fe side-2 (C)	PLAY	–	 ()	AC mV meter	3769	9 mV
BIAS only rec. A	SBC420Fe side-2 (C)	REC+PLAY	1 kHz  () (E)		AC mV meter	LF generator	12 mV
			63 Hz 250 Hz 6.3 Hz 10 kHz	Record a number of frequencies (same input voltage)			
	Rewind recording made	PLAY		 ()	AC mV meter		See graph Fig. 1 if necessary repeat adjustment (D)

Record player

Adjustment	Service Manual	Record player position SK			Read on	Adjust with	Adjust to
Speed	F7046	SK-H 33 $\frac{1}{3}$ rpm 45 rpm			Stroboscope	R3603 R3602	33 $\frac{1}{3}$ rpm 45 rpm



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TEA5570
16 8

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14 7

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SLP251B50C
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TDA2030VH
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2SK241GR
d 5 g

2KBP02
+ ~

BD675
a b c

BZX79
k a

BF241
BF494
c b

BB119
BAX14
k a

VIOLET
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ORANGE
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BA317

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RED
k a

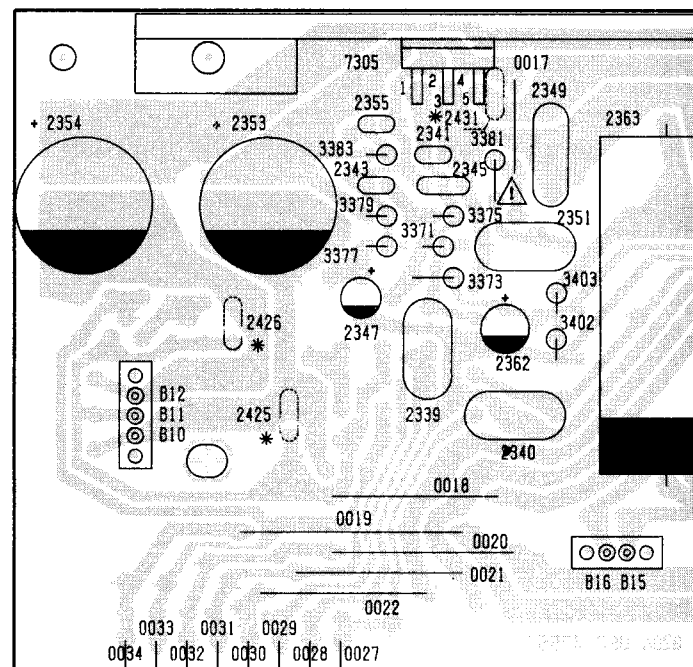
BA220

GREY
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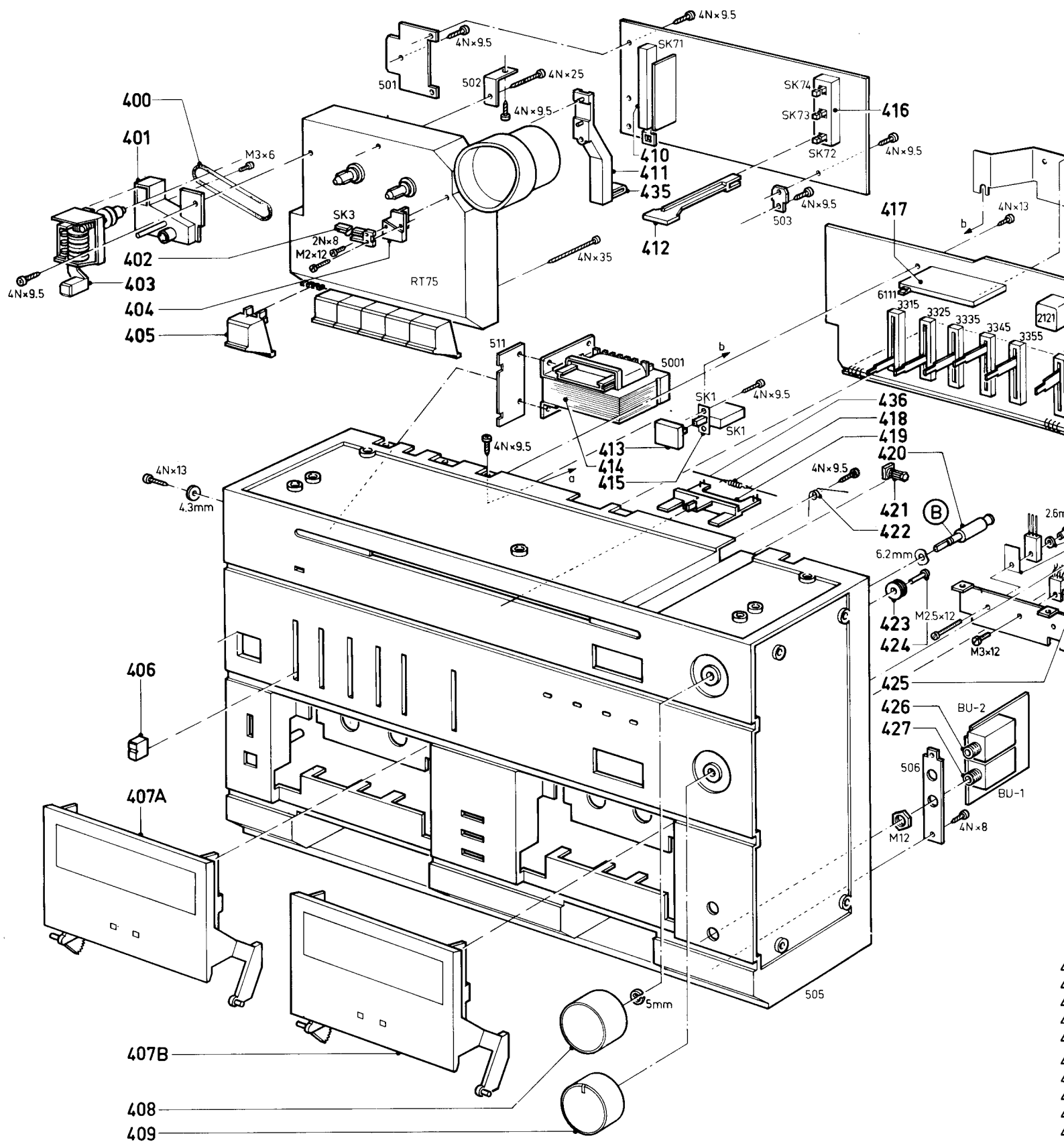
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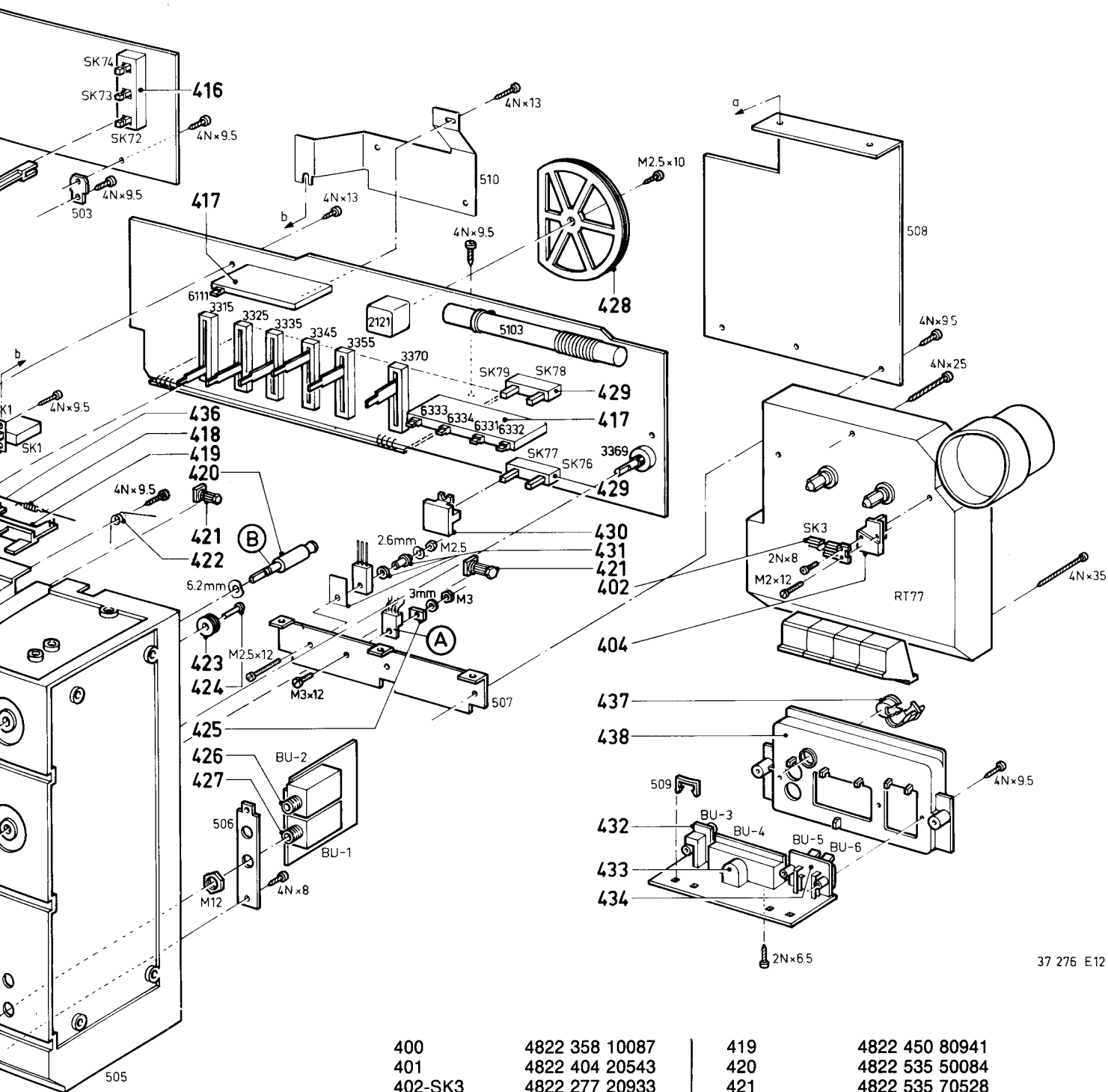


(A) Silicone grease

5322 390 20019

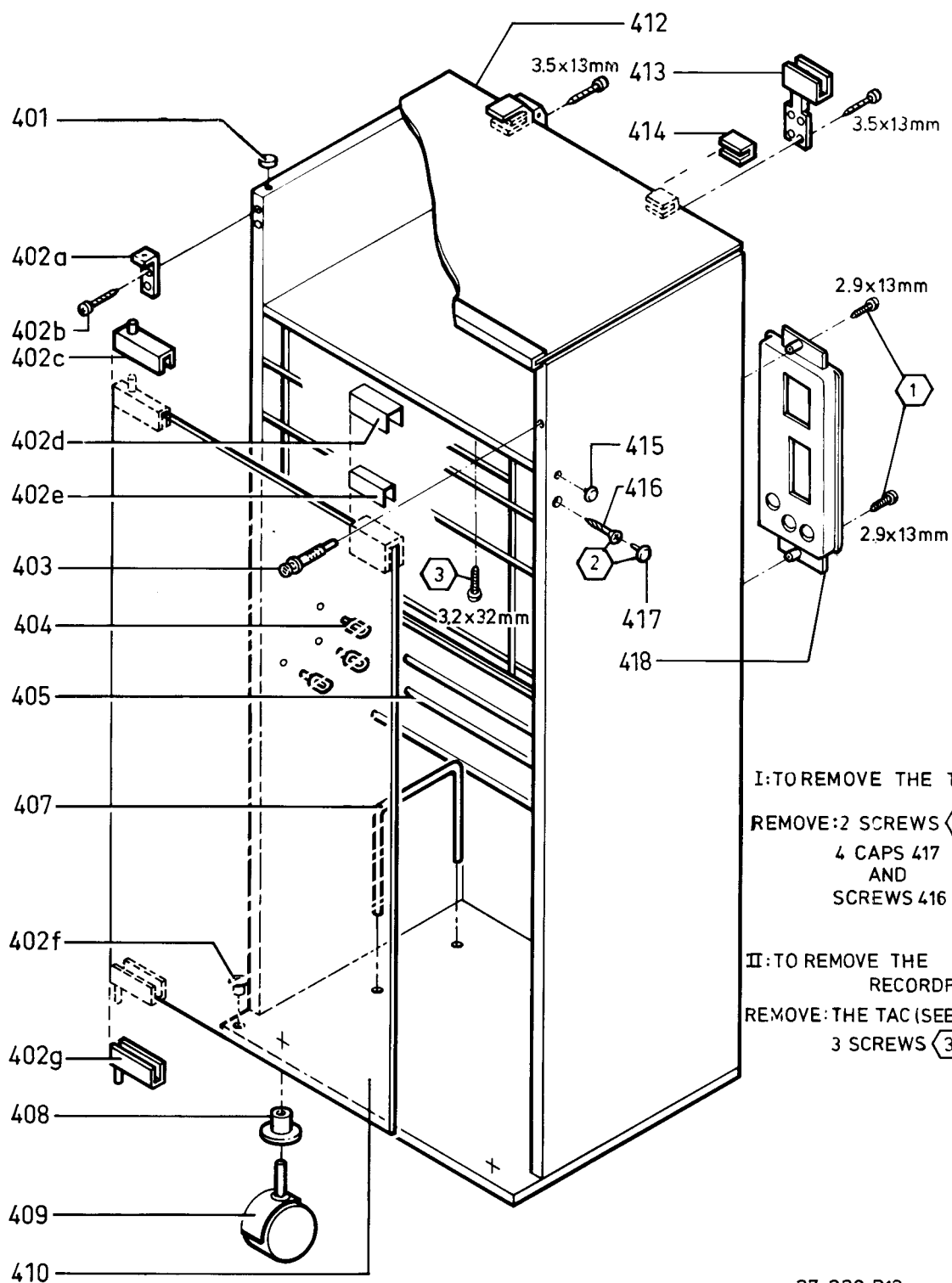
(B) Shell Alvania 2

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402-SK3	4822 277 20933	421	4822 535 70528
403	4822 349 50209	422	4822 492 41091
404	4822 404 20549	423	4822 528 80802
405	4822 410 30369	424	4822 535 70457
406	4822 411 61105	425	4822 466 80671
407A	4822 426 60305	426-BU2	4822 267 30558
407B	4822 426 60304	427-BU1	4822 267 30561
408	4822 413 41147	428	4822 528 80888
409	4822 413 41229	429-SK76 ÷ 79	4822 276 20325
410-SK71	4822 277 30709	430	4822 410 24034
411	4822 404 20576	431	4822 310 30559
412	4822 410 30384	432-BU3	4822 267 30552
413	4822 410 30372	433-BU4	4822 265 40145
414	4822 146 21028	434-BU5,6	4822 290 80609
415-SK1	4822 276 11263	435	4822 492 63178
416-SK72 ÷ 74	4822 276 30325	436	4822 321 30213
417	4822 255 40374	437	4822 325 50125
418	4822 492 31495	438	4822 464 70341



37 230 B12

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2117	Plate cap.	22 pF N470	4822 122 32076	BAX14		4822 130 34193																							
2120	Plate cap.	27 pF N330	4822 122 31234	BA220		4822 130 34221																							
2121	Varco		4822 125 50172	BA317		4822 130 30847																							
2136	Miopoco	365 pF 630 V	4822 121 50803	BB119		4822 130 31273																							
2138	Plate cap.	82 pF N1500	4822 122 31309	BZX79/C16		4822 130 34268																							
2139	Miopoco	324 pF 630 V	4822 121 50542	BZX79/C20		4822 130 34499																							
2140	Plate cap.	18 pF N1500	5322 122 34146	BZX79/C6V2		4822 130 34167																							
2145	Plate cap.	180 pF N1500	4822 122 32106	BZX79/C8V2		4822 130 34382																							
2146	Plate cap.	180 pF N1500	4822 122 32106	SLP151B50C red		4822 130 32323																							
2147	Plate cap.	180 pF N1500	4822 122 32106	SLP251B50C green		4822 130 32057																							
2166	Plate cap.	82 pF N1500	4822 122 31309	1N4148		4822 130 30621																							
2167	Plate cap.	180 pF N1500	4822 122 32106	2KBP02-7001		4822 130 50363																							
2168	Plate cap.	82 pF N1500	4822 122 31309																										
2341	Plate cap.	100 pF N1500	4822 122 31081	<table><tr><td>BC548</td><td>4822 130 40938</td></tr><tr><td>BC548B</td><td>4822 130 40937</td></tr><tr><td>BC548C</td><td>4822 130 44196</td></tr><tr><td>BC549B</td><td>4822 130 40936</td></tr><tr><td>BC549C</td><td>4822 130 44246</td></tr><tr><td>BC558B</td><td>4822 130 44197</td></tr><tr><td>BD675</td><td>5322 130 44786</td></tr><tr><td>BF241</td><td>4822 130 40898</td></tr><tr><td>BF494</td><td>4822 130 44195</td></tr><tr><td>BF494B</td><td>4822 130 41376</td></tr><tr><td>2SK241GR+Y</td><td>4822 130 42217</td></tr></table>				BC548	4822 130 40938	BC548B	4822 130 40937	BC548C	4822 130 44196	BC549B	4822 130 40936	BC549C	4822 130 44246	BC558B	4822 130 44197	BD675	5322 130 44786	BF241	4822 130 40898	BF494	4822 130 44195	BF494B	4822 130 41376	2SK241GR+Y	4822 130 42217
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BC549B	4822 130 40936																												
BC549C	4822 130 44246																												
BC558B	4822 130 44197																												
BD675	5322 130 44786																												
BF241	4822 130 40898																												
BF494	4822 130 44195																												
BF494B	4822 130 41376																												
2SK241GR+Y	4822 130 42217																												
2342	Plate cap.	100 pF N1500	4822 122 31081																										
2355	Plate cap.	100 pF N1500	4822 122 31081																										
2405	Plate cap.	150 pF N470	4822 122 32443																										
2406	Plate cap.	150 pF N470	4822 122 32443																										
2765	Plate cap.	180 pF N1500	5322 122 34232																										
2766	Plate cap.	180 pF N1500	5322 122 34232																										
3158	Potm. trimming	4k7 Lin	4822 100 10036	5001	Mains transformer	4822 146 21028																							
3315	Potm. trimming	100k Lin	4822 105 10578	5101	Aerial Trafo L-2M7-D	4822 148 80183																							
3325	Potm. trimming	100k Lin	4822 105 10578	5102	Aerial Trafo Sym.	4822 157 51233																							
3335	Potm. trimming	100k Lin	4822 105 10578	5103	Ferroceptor	4822 158 60515																							
3345	Potm. trimming	100k Lin	4822 105 10578	5104	Coil	4822 156 10641																							
3355	Potm. slide	100k Lin	4822 105 10578	5105	Coil RF	4822 157 51693																							
3369	Potm.	100k volume	4822 101 20749	5106	Coil Osc.	4822 157 51618																							
3370	Balance		4822 105 10579	5107	Coil 0.47 µH	4822 157 50967																							
3381	Fuse res.	1E NFR25	4822 111 30483	5108	Coil IF 10.7 MHz	4822 153 50206																							
3382	Fuse res.	1E NFR25	4822 111 30483	5109	Aerial Trafo LW	4822 156 30564																							
3400	Fuse res.	1E NFR25	4822 111 30483	5110	Res. cer. 10.7 MHz	4822 242 70249																							
3404	Fuse res.	4E7 NFR30	4822 116 52448	5111	Coil FM	4822 157 51615																							
3769	Potm. trimming	100k	4822 100 10052	5112	Filter IF 450 kHz	4822 157 51617																							
				5113	Coil Osc. AM	4822 157 51616																							
HEF4016B		5322 209 14119		5114	Coil FM 10.7 MHz	4822 153 50208																							
NJM4558CD		4822 209 81054		5115	Res. Cer. 10.7 MHz	4822 242 70249																							
TDA2030VH		4822 209 82972		5116	Coil IF AM	4822 157 51708																							
TEA5570		4822 209 81563		5117	Coil	4822 157 51842																							
UPC1197C		4822 209 81544		5118	Coil	4822 157 50964																							
				5751	Coil Osc.	4822 156 20946																							
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.																													
Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.																													
				Miscellaneous																									
				1301	Fuse T 3.15A Wickman	4822 253 10048																							
				1751	Cass. Rec. CRE-3	4822 218 10158																							
				F	Thermal fuse for mains transformer	4822 252 20007																							

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.

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.

RTV servis Horvat

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