

Service
Service
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 Volta ao Menu

Service Manual

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TECHNICAL SPECIFICATIONS

GENERAL

Mains voltage	-/00 : 230 V
	-/01/11/11H/16 : 120 / 230 V
	-/05/10/14 : 240 V
Mains frequency	-/17 : 120 V
	-/00/05/10/14 : 50 Hz
	-/01/11/11H/16 : 50 / 60 Hz
Battery	-/17 : 60 Hz
	mains : 9 V (R20 x 6)
	remote : 3 V (R6 x 2)
Power consumption	: 35 W
Dimension (W x H x D)	: 500 x 225 x 265 mm
Weight	: 5.8 Kg

AMPLIFIER

Output power	mains : 2 x 2.5 W
	battery : 2 x 2.5 W
Speaker impedance	: 2 x 4 ohm
Frequency response	: 100 Hz - 10 kHz (± 4 dB)

TUNER - FM SECTION

Tuning range	: 87.5 - 108 MHz
IF frequency	: 10.7 MHz
Sensitivity	: < 22 dB at 26dB S/N
Selectivity	: > 33 dB at ± 300 kHz
IF rejection	: > 60 dB
Image rejection	: > 25 dB

TUNER - AM SECTION

Tuning range	MW : 530 - 1602 kHz
Tuning range	LW : 153 - 279 kHz
Sensitivity	MW : < 1500 μ V/m 26dB S/N
	LW : < 3000 μ V/m
Selectivity	MW : > 18 dB
	LW : > 24 dB
IF rejection ratio	MW : > 24 dB
	LW : > 26 dB
Image rejection ratio	MW : > 28 dB
	LW : > 30 dB

AUDIO CASSETTE RECORDER

Number of tracks	: 2 stereo
Tape speed	: 4.76 cm/sec $\pm 3\%$
Wow & flutter	: < 0.48 % JIS UWTD
Fast wind/rewind C60	: < 110 sec.
Frequency response	P/B : 125 - 8000 Hz
S/N ratio	: > 40 dB

COMPACT DISC

Frequency response	: 100 Hz - 10 kHz
S/N ratio	: > 50 dB
Channel difference	1 kHz : < 3 dB
Channel crosstalk	1 kHz : > 26 dB
Laser wavelength	: 780 \pm 20nm
Laser light power	: < 0.3 mW

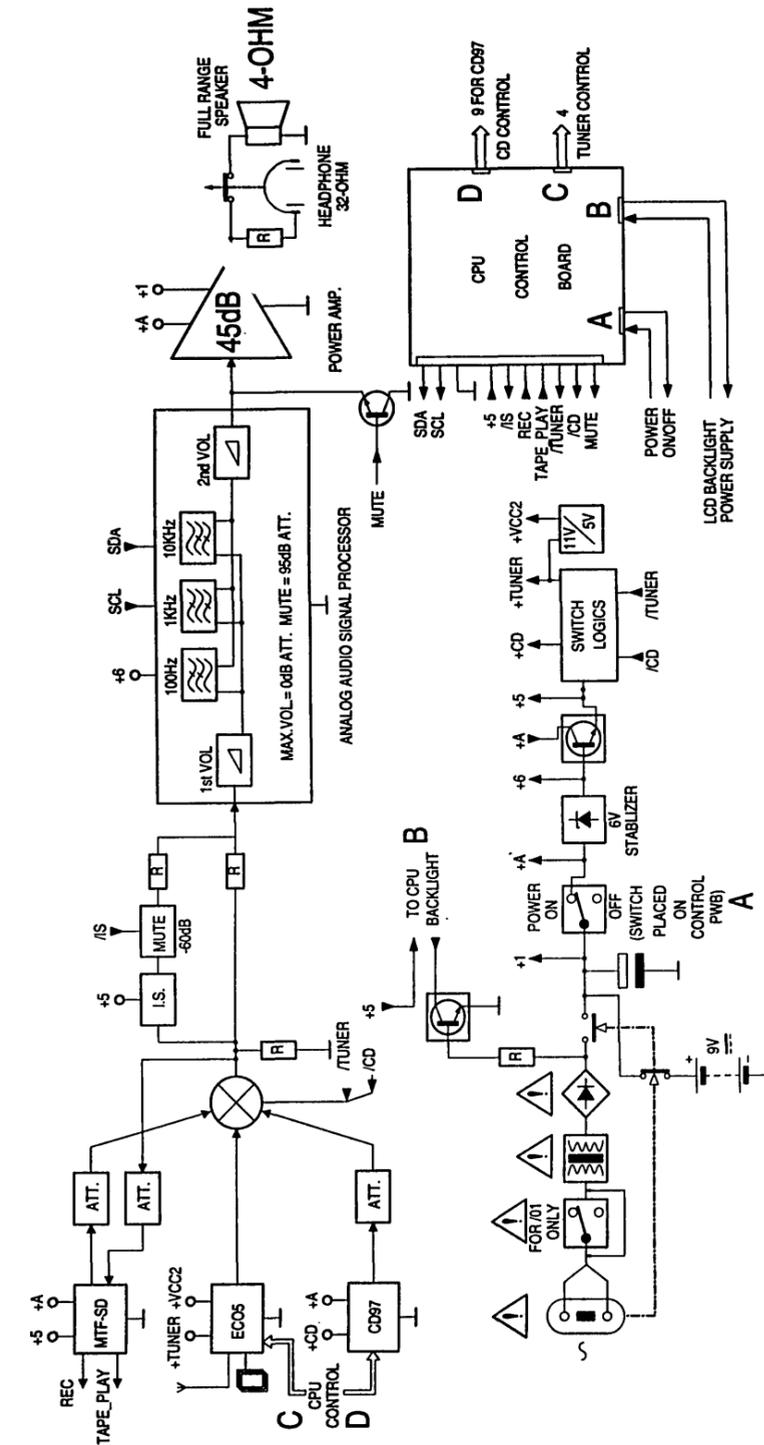
Pin-descriptions of CD ICs

SERVO PROCESSOR M62475FP

Pin	Name	Direction	Description
1-3	A, B, C	-	Diode array → Servo processor
4-5	E, F	-	Diode array → Servo processor
6	SGT	-	Servo processor → Track error ampl. input
7	TE -	-	Inverting input of track error amplifier
8	TEGain	-	Gain control pin of track error amplifier
9	TG1	-	Track Gain 1 - switch: controls the gain of the track servo amplifier
10	TE out	-	Track Error amplifier output
11	TC/Shock	-	Track Cross/Shock detector input
12	TS +	-	Non inverting input of track servo amplifier
13	TG2	-	Track Gain 2 - switch: controls the gain of the track servo amplifier
14	TS -	-	Inverting input of track servo amplifier
15	TS out	-	Output of track servo amplifier
16	SS +	-	Non inverting input of slide servo amplifier
17	SS -	-	Inverting input of slide servo amplifier
18	Slide out	-	Output of slide servo amplifier
19	DET.FILTER	-	Pin for connection of DETection FILter capacitor of ADJUST LOGIC
20	BIAS	-	Reference Voltage output Vcc/2 of internal BIAS-generator
21	GND	-	Ground connection pin (negative supply)
22	MLA/DIS	-	Serial interface Microprocessor LAtch control / DIScharge control for adjustment
23	JP1/SG	-	Serial interface Jump control line / Signal Generator input line for adjustment
24	MCK	-	Serial interface Clock input line
25	MSD	-	Serial interface Data input line
26	DOUT	-	Serial interface Data output line
27	CLPF	-	Pin for connection of Low Pass Filter capacitor for ADJUST LOGIC
28	IREF	-	Reference current input
29	VCC	-	Positive supply connection pin (4V - 5.5V)
30	FSOUT	-	Output of focus servo amplifier
31	FS -	-	Inverting input of focus servo amplifier
32	FEGain	-	Gain control pin of focus error amplifier
33	FE -	-	Inverting input of focus error amplifier
34	SGF	-	Signal generator output to focus servo, sends 1300Hz for adjust. procedure
35	CFSR	-	Charge capacitor for Focus Search triangle-generator
36	ALPC +	-	Non inverting input of Automatic Laser Power Control amplifier
37	ALPC -	-	Inverting input of Automatic Laser Power Control amplifier
38	ALPC OUT	-	Output of Automatic Laser Power Control amplifier
39	MRC	-	Connection pin for capacitor of Mirror detector
40	HF	-	Output of HF amplifier
41	HFI	-	Inverting input of HF amplifier
42	ABC	-	Sum output of amplified A, B and C input (central photo diode signal input) to external ac-coupling capacitor

SIGNAL PROCESSOR M65824FP

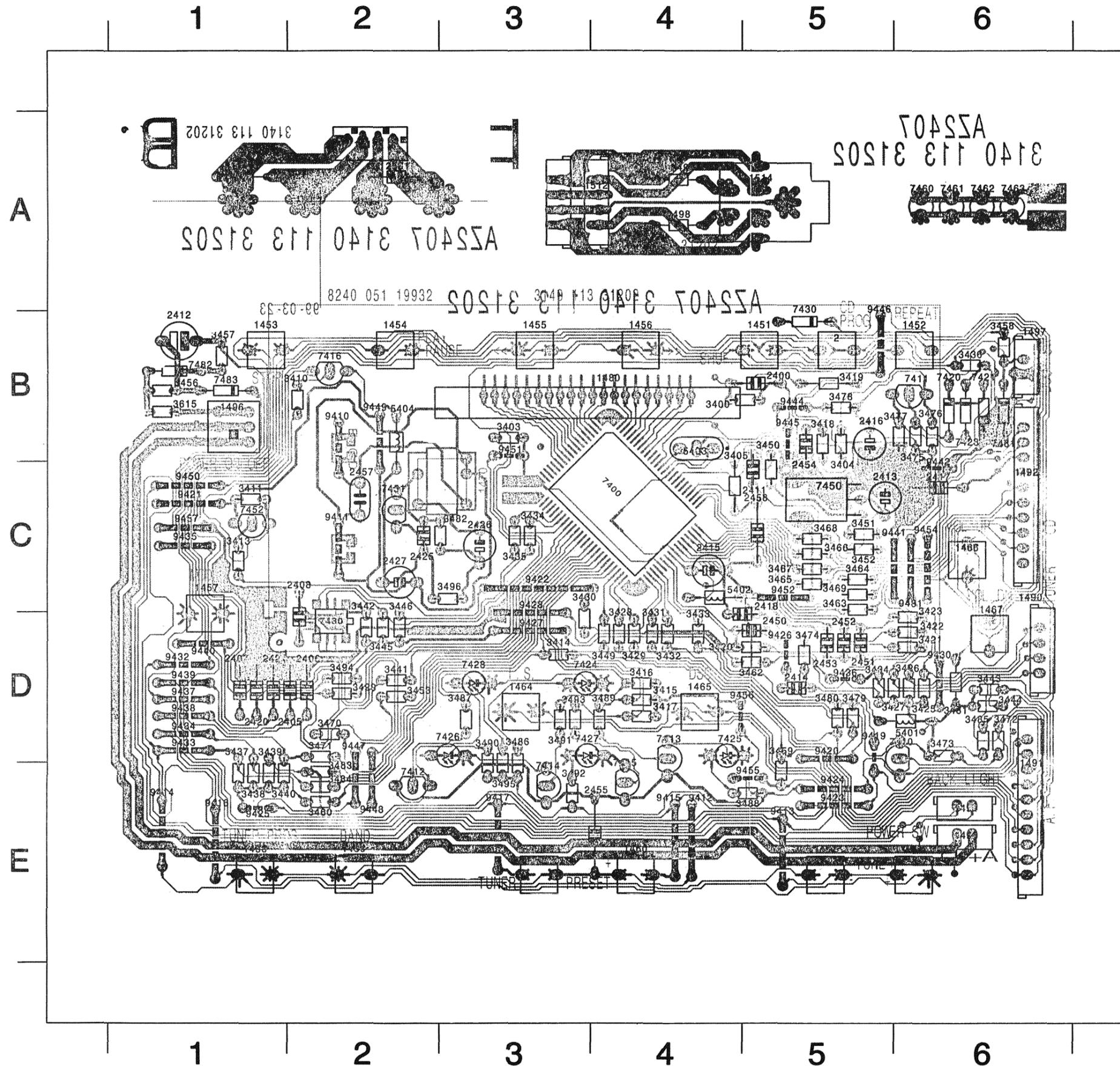
Pin	Name	Direction	Description
1	AVSS	-	Analog system ground
2	ADJCLK	-	Clock output for servo adjustment; f=88.2kHz
3	LOCK	-	Lock monitor / low disc rotation output
4	CKSEL	-	System clock selection. Low=8.4672MHz, high=16.9344MHz
5	RESET	-	Reset circuit → Signal processor
6	C423	-	4.2336MHz clock output
7	C846	-	8.4672MHz clock output
8	XI	-	Crystal oscillator input
9	DVSS	-	Digital system ground
10	XO	-	Crystal oscillator output
11	TEST	-	Normal / Test selection input. Testmode = high
12	SBCO	-	Subcode serial output
13	SCCK	-	Shift clock input for subcode data read
14	SYCLK	-	Frame lock status output. Lock = high
15	EFFK	-	EFM frame clock output. Duty = 50%
16	KILLB	-	Digital silence mute output. Digital zero = low
17	EST1	-	Error monitor output1
18	EST2	-	Error monitor output2
19	HF	-	HF signal input
20	TLC	-	Slice level control signal output
21	LPF	-	PLL loop filter
22	Dig.VDD	-	Digital interface power supply
23	DSPS	-	Digital system power supply
24	SBQS	-	Interrupt signal to read out subcode Q data. Read = low
25	CRCF	-	Subcode Q-channel Cyclic Redundance Check Flag output. CRC o.k.=high level
26	SCAND	-	Subcode sync signal detection. Sync = high
27	PWM	-	Disc motor driving (Pulse Width Modulation) output
28	DVDD2	-	Digital interface power supply 2
29	DVSS2	-	Digital system ground2
30	MCK	-	μP interface shift Clock input
31	MSD	-	μP interface Serial Data I/O line
32	MLAB	-	μP interface Latch clock input (internal 22k pull up resistor)
33	EXP1	-	Versatile input pin (internal 4.7k pull up resistor)
34	EXP2	-	Versatile input pin (internal 4.7k pull up resistor)
35	CGREF	-	Charge-pump for LPF reference current input
36	AMPREF	-	Op-amp for LPF reference voltage setting
37	LOUT/DO	-	Audio signal output (left channel) / Ext. DAC mode: Audio serial data output
38	LNEG	-	Charge pump output (left channel) / Ext. DAC mode: Wordclock output
39	ROUT/DSCK	-	Audio signal output (right channel) / Ext. DAC mode: Data shift clock output
40	RNEG/LRCK	-	Charge pump output (right channel) / Ext. DAC mode: L/R clock output
41	IREF	-	Current reference
42	Anal.VDD	-	Analog System power supply



BLOCK DIAGRAM

FRONT BOARD - CIRCUIT DIAGRAM (AZ2425)

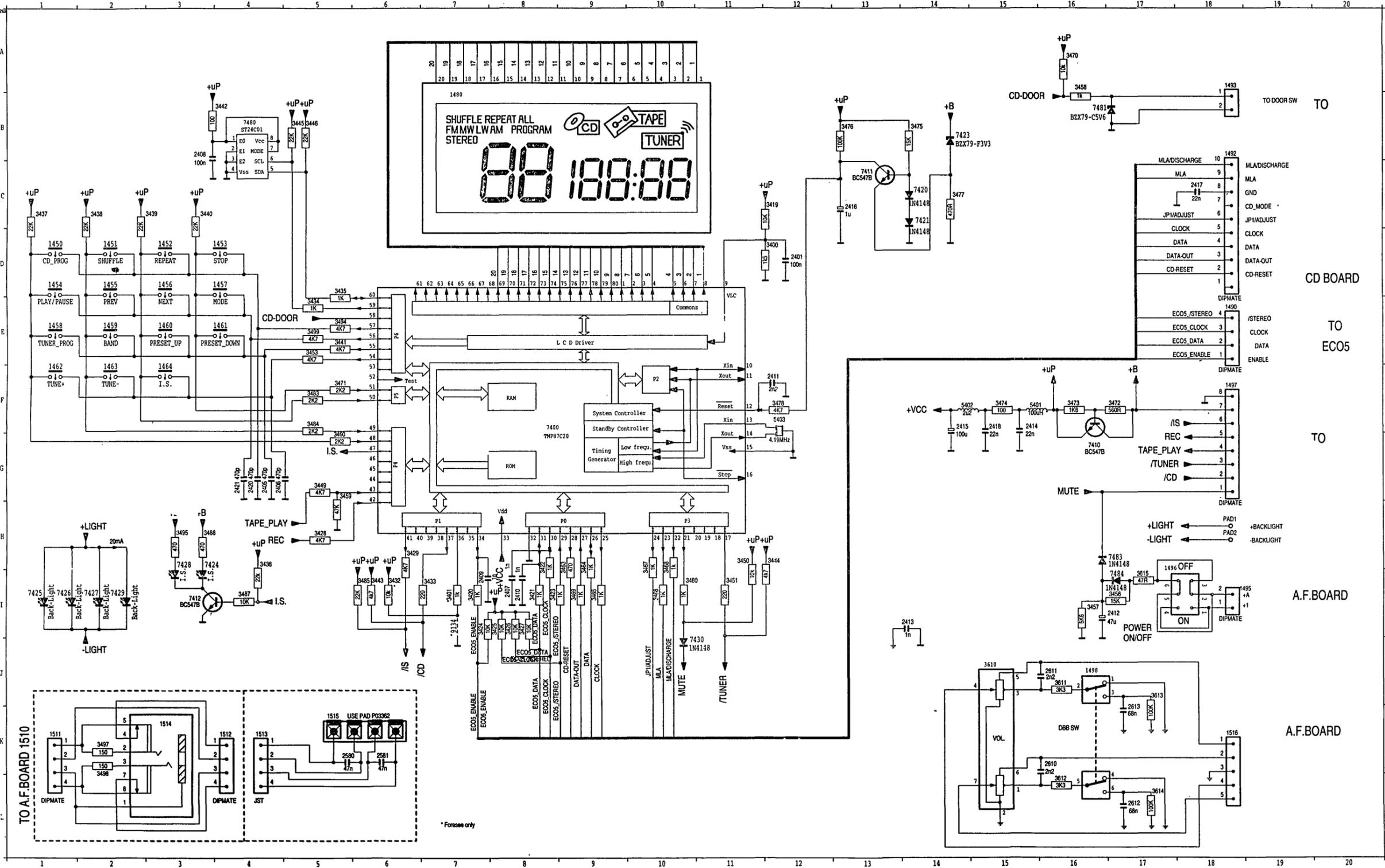
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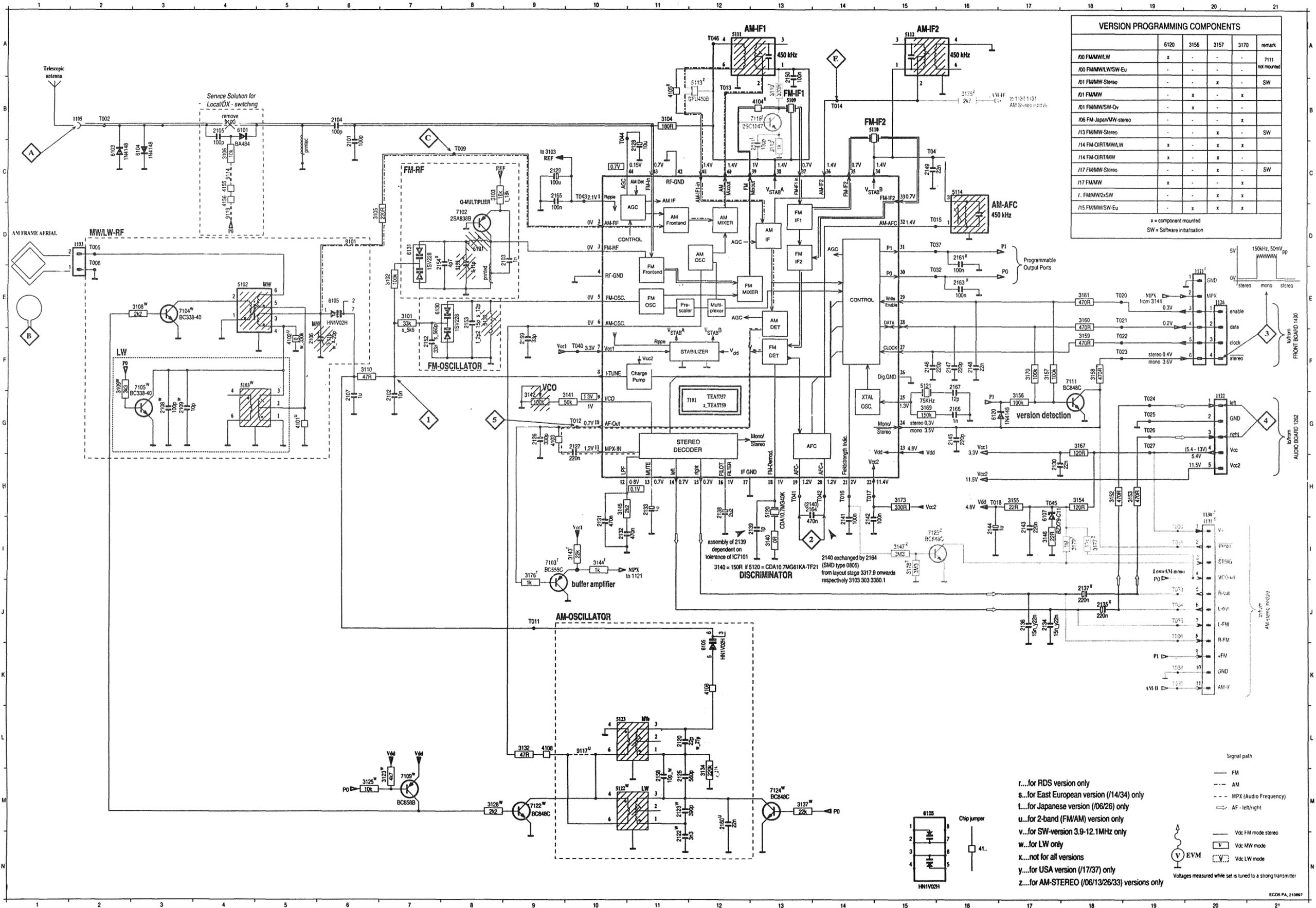
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8 AZ 2425
FRONT BOARD - CIRCUIT DIAGRAM (AZ2420)

1450	D 1	1455	D 2	1460	B 3	1480	B 7	1496	I 17	1513	K 4	1515a	K 6	2407	I 8	2412	I 16	2417	C 18	2581	K 6	3400	D 11	3422	I 18	3427	I 18	3434	I 18	3439	I 18	3444	I 11	3451	I 11	3459	H 5	3466	I 10	3471	F 5	3476	B 13	3484	F 5	3495	H 3	3611	J 16	5401	F 15	7411	C 13	7424	I 3	7429	I 2	7484	I 17				
1451	D 1	1456	D 2	1461	B 3	1481	B 7	1497	F 18	1514	K 4	1515b	K 6	2408	I 8	2413	I 14	2418	F 15	2610	K 6	3401	F 7	3423	I 18	3428	I 18	3435	I 18	3440	I 18	3445	B 13	3452	E 5	3460	H 5	3467	H 10	3472	F 5	3477	C 14	3485	F 5	3496	H 3	3612	J 16	5402	F 15	7412	C 13	7425	I 3	7430	I 7	7485	I 17				
1452	D 1	1457	D 2	1462	B 3	1482	B 7	1498	F 18	1515c	K 6	2409	G 4	2410	I 8	2415	F 14	2421	G 4	2611	K 6	3402	F 7	3424	I 18	3429	I 18	3436	I 18	3441	I 18	3446	B 13	3453	E 5	3461	H 5	3468	H 10	3473	F 5	3478	C 14	3486	F 5	3497	H 3	3613	J 16	5403	F 15	7413	C 13	7426	I 3	7431	I 7	7486	I 17				
1453	D 1	1458	F 2	1463	B 3	1483	B 7	1499	F 18	1516	K 6	2411	G 4	2412	I 8	2417	F 14	2422	G 4	2612	K 6	3403	F 7	3425	I 18	3430	I 18	3437	I 18	3442	I 18	3447	B 13	3454	E 5	3462	H 5	3469	I 9	3474	F 5	3479	C 14	3487	F 5	3498	H 3	3614	J 16	5404	F 15	7414	C 13	7427	I 2	7487	B 4	9134	I 7	7488	B 4	PAD1	H 18
1454	D 1	1459	F 2	1464	B 3	1484	B 7	1500	F 18	1517	K 6	2413	G 4	2414	I 8	2419	F 14	2424	G 4	2613	K 6	3404	F 7	3426	I 18	3431	I 18	3438	I 18	3443	I 18	3448	B 13	3455	E 5	3463	H 5	3470	I 9	3475	F 5	3480	F 5	3488	F 5	3615	J 16	5405	F 15	7415	C 13	7428	I 3	7488	B 4	PAD2	H 18						



ECO5 TUNER BOARD - CIRCUIT DIAGRAM

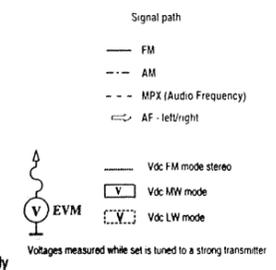


VERSION PROGRAMMING COMPONENTS					
	6120	3156	3157	3170	remark
X0 FMMW/LW	x	-	-	-	
X0 FMMW/LW/SW-Eu	-	-	-	-	7111 not mounted
X1 FMMW-Stereo	-	-	x	-	SW
X1 FMMW	-	x	-	x	
X1 FMMW/SW-Ov	-	x	-	-	
X6 FM-Japan/MW-stereo	-	-	-	-	
X13 FMMW-Stereo	-	-	x	-	SW
X14 FM-OIRT/MW/LW	x	-	x	x	
X14 FM-OIRT/MW	x	-	x	-	
X17 FMMW-Stereo	-	-	x	-	SW
X17 FMMW	x	-	-	x	
X1 FMMW2xSW	-	-	x	x	
X15 FMMW/SW-Eu	-	x	x	x	

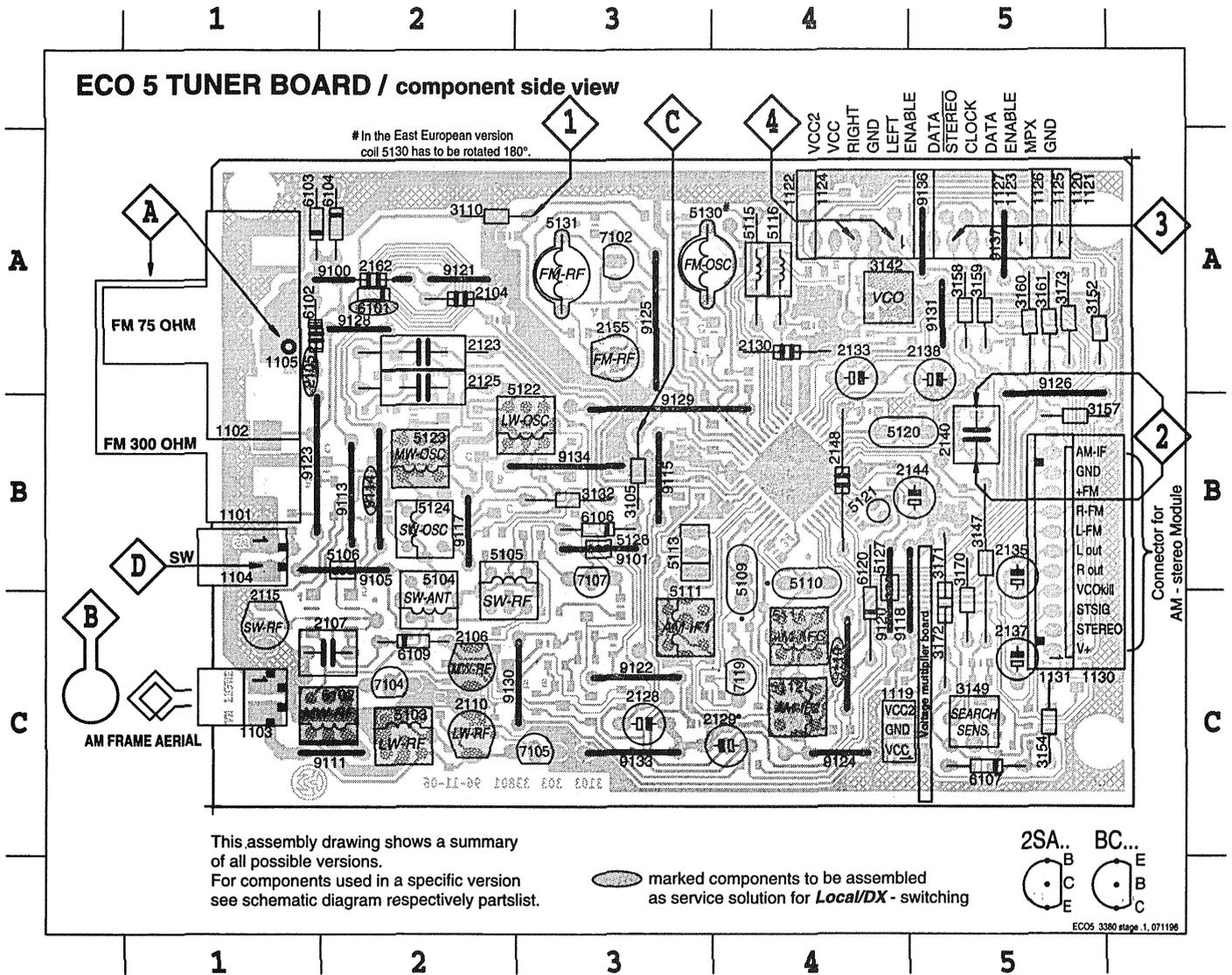
x = component mounted
SW = Software initialisation

- 1103 D 2
- 1105 B 2
- 1121 E 20
- 1122 G 20
- 1126 E 20
- 1130 I 20
- 2101 C 6
- 2102 G 7
- 2103 D 9
- 2104 B 6
- 2106 F 5
- 2107 G 6
- 2108 G 3
- 2109 G 3
- 2111 C 13
- 2120 L 11
- 2122 M 11
- 2123 M 11
- 2125 M 11
- 2126 G 9
- 2127 G 10
- 2128 C 11
- 2129 C 9
- 2130 H 17
- 2131 I 10
- 2132 H 10
- 2133 M 11
- 2134 J 17
- 2135 J 18
- 2136 J 17
- 2137 I 18
- 2138 H 12
- 2139 H 3
- 2140 H 4
- 2141 H 4
- 2142 H 4
- 2143 I 17
- 2144 I 7
- 2145 G 16
- 2146 F 15
- 2147 F 16
- 2148 F 16
- 2149 C 15
- 2150 B 13
- 2151 F 7
- 2153 E 8
- 2154 E 7
- 2155 D 8
- 2158 M 11
- 2159 F 9
- 2160 M 12
- 2161 M 11
- 2163 E 16
- 2164 H 14
- 2166 G 16
- 2167 F 16
- 2168 F 7
- 3102 E 7
- 3103 C 8
- 3104 B 11
- 3105 D 6
- 3108 E 3
- 3109 F 2
- 3114 F 6
- 3113 C 13
- 3119 B 13
- 3123 M 7
- 3125 M 6
- 3128 M 8
- 3132 L 9
- 3134 M 12
- 3137 M 13
- 3140 H 3
- 3141 G 9
- 3142 G 9
- 3143 H 10
- 3144 H 10
- 3145 I 10
- 3146 I 17
- 3147 H 5
- 3152 H 18
- 3153 H 19
- 3154 H 18
- 3155 H 17
- 3156 H 17
- 3157 F 17
- 3158 F 18
- 3159 F 18
- 3160 E 18
- 3181 E 18
- 3187 G 18
- 3189 G 15
- 3170 F 17
- 3173 H 15
- 3175 B 16
- 3176 I 9
- 3177 H 18
- 3178 H 5
- 3179 H 8
- 4101 G 5
- 4102 F 5
- 4103 G 9
- 4104 B 13
- 4105 B 11
- 4106 K 12
- 5109 B 13
- 5102 E 4
- 5103 F 4
- 5109 B 13
- 5110 B 14
- 5111 A 13
- 5112 A 15
- 5113 B 12
- 5114 C 16
- 5120 H 13
- 5121 F 15
- 5122 M 11
- 5123 L 11
- 5130 E 8
- 5131 D 8
- 6103 C 2
- 6104 C 3
- 6105 H 12
- 6106 E 6
- 6107 H 17
- 6120 G 16
- 6130 E 7
- 6131 D 7
- 7101 G 11
- 7102 D 8
- 7103 I 9
- 7104 E 3
- 7105 F 2
- 7109 M 7
- 7111 F 18
- 7119 B 13
- 7122 M 9
- 7124 M 13
- 7125 H 5
- 9100 B 4
- 9101 D 6
- 9117 L 10

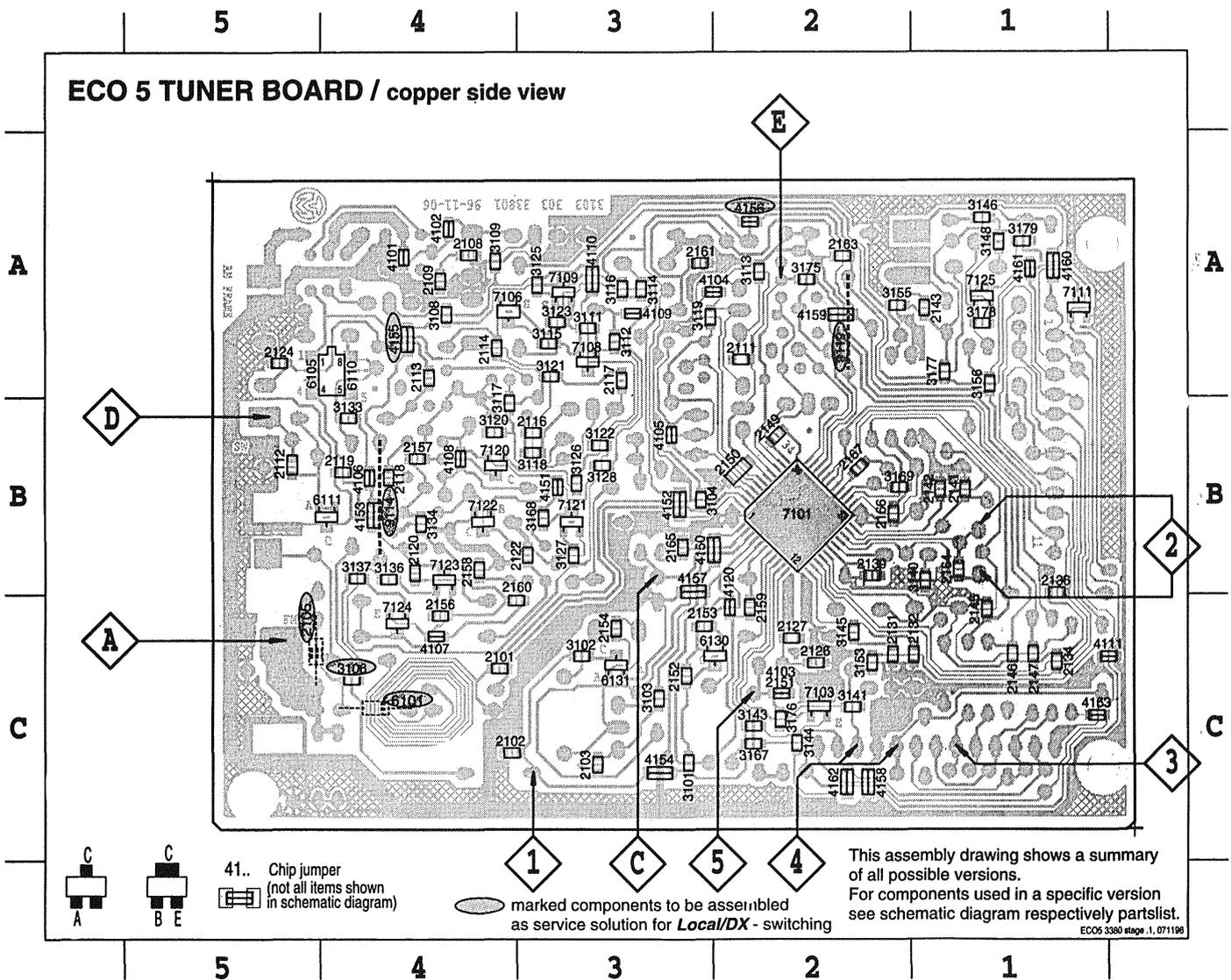
r....for RDS version only
 s....for East European version (1/14/34) only
 L....for Japanese version (1/06/26) only
 v....for 2-band (FM/AM) version only
 w....for SW-version 3.9-12.1MHz only
 x....not for all versions
 y....for USA version (1/17/37) only
 z....for AM-STEREO (1/06/13/26/33) versions only



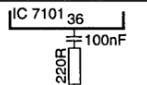
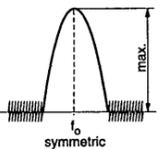
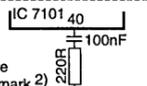
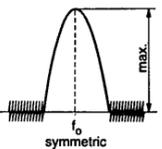
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1102 A1	2107 C2	2138 A5	3149 C5	3173 A5	5114 C4	5131 A3	7105 C3	9118 B4	9130 C3
1103 C1	2110 C2	2140 B5	3152 A5	5102 C2	5115 A4	6101 A2	7107 B3	9119 C4	9131 A5
1104 B1	2115 C1	2144 B5	3154 C5	5103 C2	5116 A4	6102 A1	7119 C4	9120 B4	9133 C3
1105 A1	2123 A2	2148 B4	3157 B5	5104 C2	5120 B4	6103 A1	9100 A2	9121 A2	9134 B3
1119 C5	2125 A2	2155 A3	3158 A5	5105 B2	5121 B4	6104 A2	9101 B3	9122 C3	9136 A5
1120 A5	2128 C3	2162 A2	3159 A5	5106 B2	5122 B3	6106 B3	9105 B2	9123 B1	9137 A5
1130 B5	2129 C4	3105 B3	3160 A5	5109 B4	5123 B2	6107 C5	9111 C2	9124 C4	
1131 B5	2130 A4	3110 A2	3161 A5	5110 B4	5124 B2	6109 C2	9113 B2	9125 A3	
2104 A2	2133 A4	3132 B3	3170 C5	5111 C3	5126 B3	6120 C4	9114 B2	9126 B5	
2105 A1	2135 B5	3142 A4	3171 C5	5112 C4	5127 B4	7102 A3	9115 B3	9128 A2	



2101 C4	2118 B4	2139 B2	2153 C3	2166 B2	3113 A2	3125 A3	3144 C2	3176 C2	4108 B4	4156 A2	6130 C2	7123 B4
2102 C4	2119 B4	2141 B1	2154 C3	2167 B2	3114 A3	3126 B3	3145 C2	3177 A1	4109 A3	4157 B3	6131 C3	7124 C4
2103 C3	2120 B4	2142 B1	2156 C4	3101 C3	3115 A3	3127 B3	3146 A1	3178 A1	4110 A3	4158 C2	7101 B2	7125 A1
2108 A4	2122 B3	2143 A1	2157 B4	3102 C3	3116 A3	3128 B3	3148 A1	3179 A1	4111 C1	4159 A2	7103 C2	
2109 A4	2124 A5	2145 C1	2158 B4	3103 C3	3117 B4	3133 B4	3153 C2	4101 A4	4120 C2	4160 A1	7106 A4	
2111 A2	2126 C2	2146 C1	2159 C2	3104 B3	3118 B3	3134 B4	3155 A2	4102 A4	4150 B2	4161 A1	7108 A3	
2112 B5	2127 C2	2147 C1	2160 C4	3106 C4	3119 A3	3136 B4	3156 A1	4103 C2	4151 B3	4162 C1	7109 A3	
2113 A4	2131 C2	2149 B2	2161 A3	3108 A4	3120 B4	3137 B4	3167 C2	4104 A2	4152 B3	4163 C1	7111 A1	
2114 A4	2132 C1	2150 B2	2163 A2	3109 A4	3121 A3	3140 B1	3168 B3	4105 B3	4153 B4	6105 A4	7120 B4	
2116 B3	2134 C1	2151 C2	2164 B1	3111 A3	3122 B3	3141 C2	3169 B2	4106 B4	4154 C3	6110 A4	7121 B3	
2117 A3	2136 B1	2152 C3	2165 B3	3112 A3	3123 A3	3143 C2	3175 A2	4107 C4	4155 A4	6111 B4	7122 B4	



TUNER ADJUSTMENT TABLE (ECO5 FM/MW- and FM/MW/LW - versions with AM-frame aerial)

Waverange	Input frequency	Input	Tuned to	Adjust	Output	Scope/Voltmeter
VARICAP ALIGNMENT						
FM 87.5 - 108MHz (65.81 - 74, 87.5 - 108MHz)			108MHz	5130	1	8V ±0.2V
			87.5MHz (65.81MHz)	check		4.3V ±0.5V (1.2V ±0.5V)
MW FM/AM-version, 10kHz grid 530 - 1700kHz			1700kHz	5123		8V ±0.2V
			530kHz	check		1.1V ±0.4V
FM/MW-version, 9kHz grid 531 - 1602kHz			1602kHz	5123		6.9V ±0.2V
			531kHz	check		1.1V ±0.4V
LW 153 - 279kHz			279kHz	5122	8V ±0.2V	
			153kHz	check	1.1V ±0.4V	
MW FM/MW/LW- version, 9kHz grid 531 - 1602kHz			1602kHz	5123	8V ±0.2V	
			531kHz	check	1.1V ±0.4V	
FM RF						
FM 87.5 - 108MHz (65.81 - 74, 87.5 - 108MHz)	108MHz	A	108MHz	2155	4	MAX
	87.5MHz (65.81MHz)	mod=1kHz Δf=±22.5kHz	87.5MHz (65.81MHz)	5131		
VCO						
FM	98MHz, 1mV continuous wave	A	98MHz	3142	3	152kHz ±1kHz ¹⁾
AM IF						
MW	450kHz connect pin 6 of IC 7101 (AM Osc.) with short wire to ground (pin 4)	C Δf=±15kHz V _{RF} = 3mV		5111	4	
				5112		
AM AFC MW		C continuous wave V _{RF} = 10mV		5114	2	0 ± 2 mV DC
AM RF³⁾						
MW⁴⁾ FM/MW/LW- and FM/MW-version (9kHz grid) 531 - 1602kHz	1494kHz	B 	1494kHz	2106	4	
	558kHz		558kHz	5102		
LW	198kHz		198kHz	5103		
MW FM/AM-version, 10kHz grid 530 - 1700kHz	1500kHz		Δf = ±30kHz V _{RF} as low as possible	1500kHz		
	560kHz	560kHz		5102		

Use service test program. By selecting the TUNER TEST test frequencies will be stored as preset frequencies automatically.

¹⁾ If sensitivity of frequency counter is too low adjust to max. channel separation (input signal: stereo left 90% + 9%, adjust output on right channel to minimum)

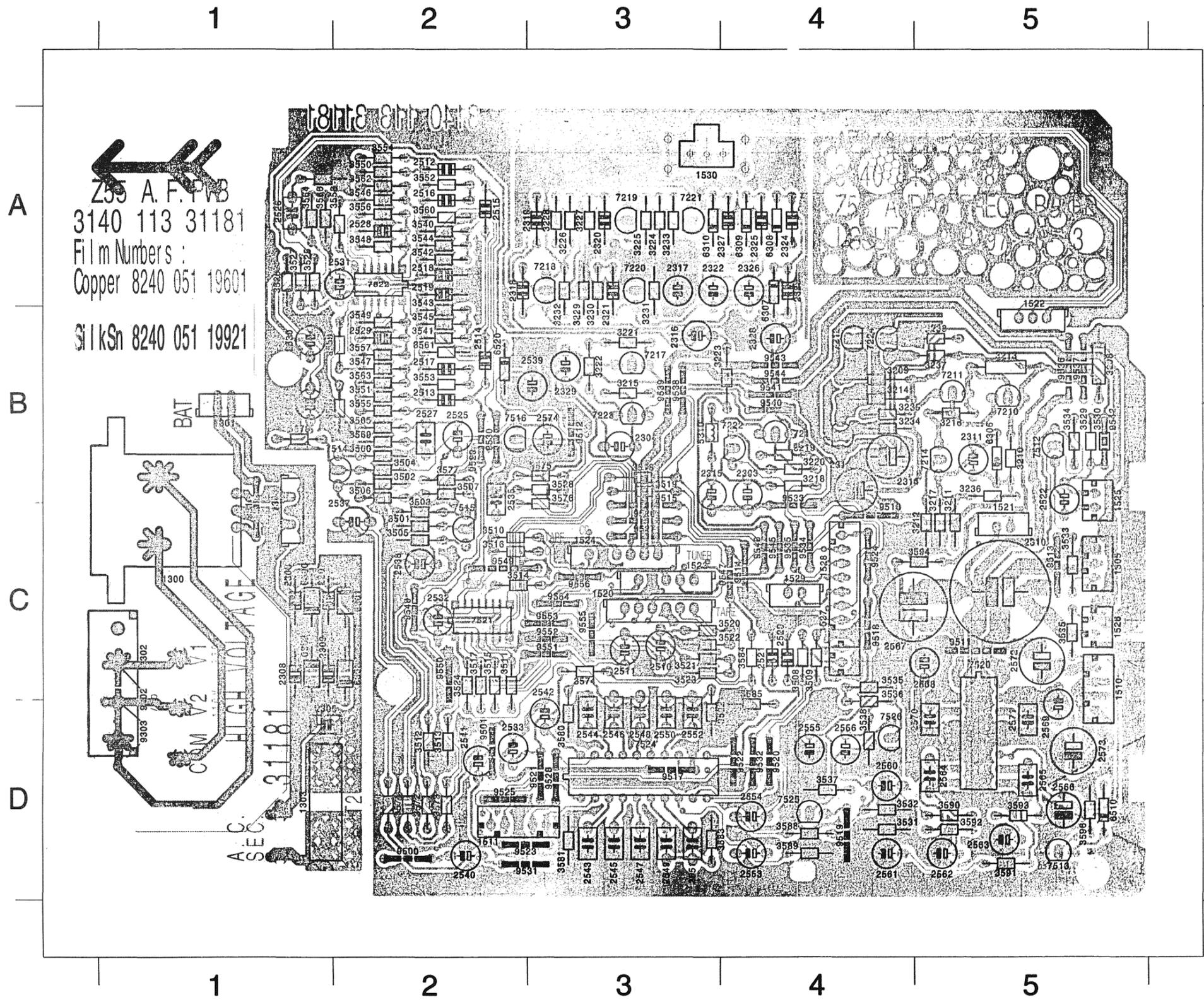
²⁾ RC network serves for damping the IF-filter while adjusting the other one.

³⁾ For AM RF adjustments the original frame antenna has to be used !

⁴⁾ MW has to be aligned before LW.

ECO5, 160497

AUDIO BOARD - LAYOUT DIAGRAM

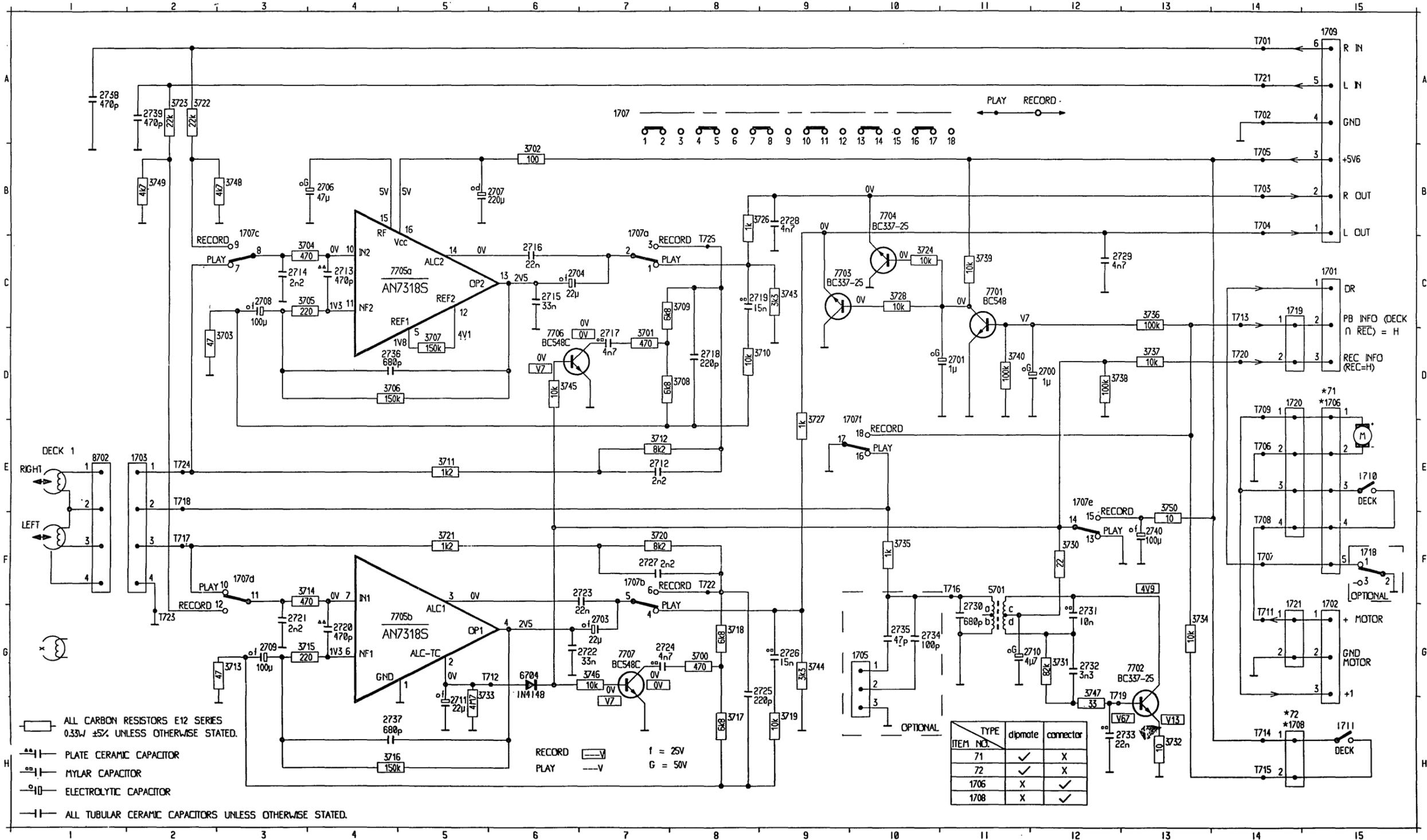


Z55 A.F. PwB
 3140 113 31181
 Film Numbers :
 Copper 8240 051 19601
 Si kSn 8240 051 19921

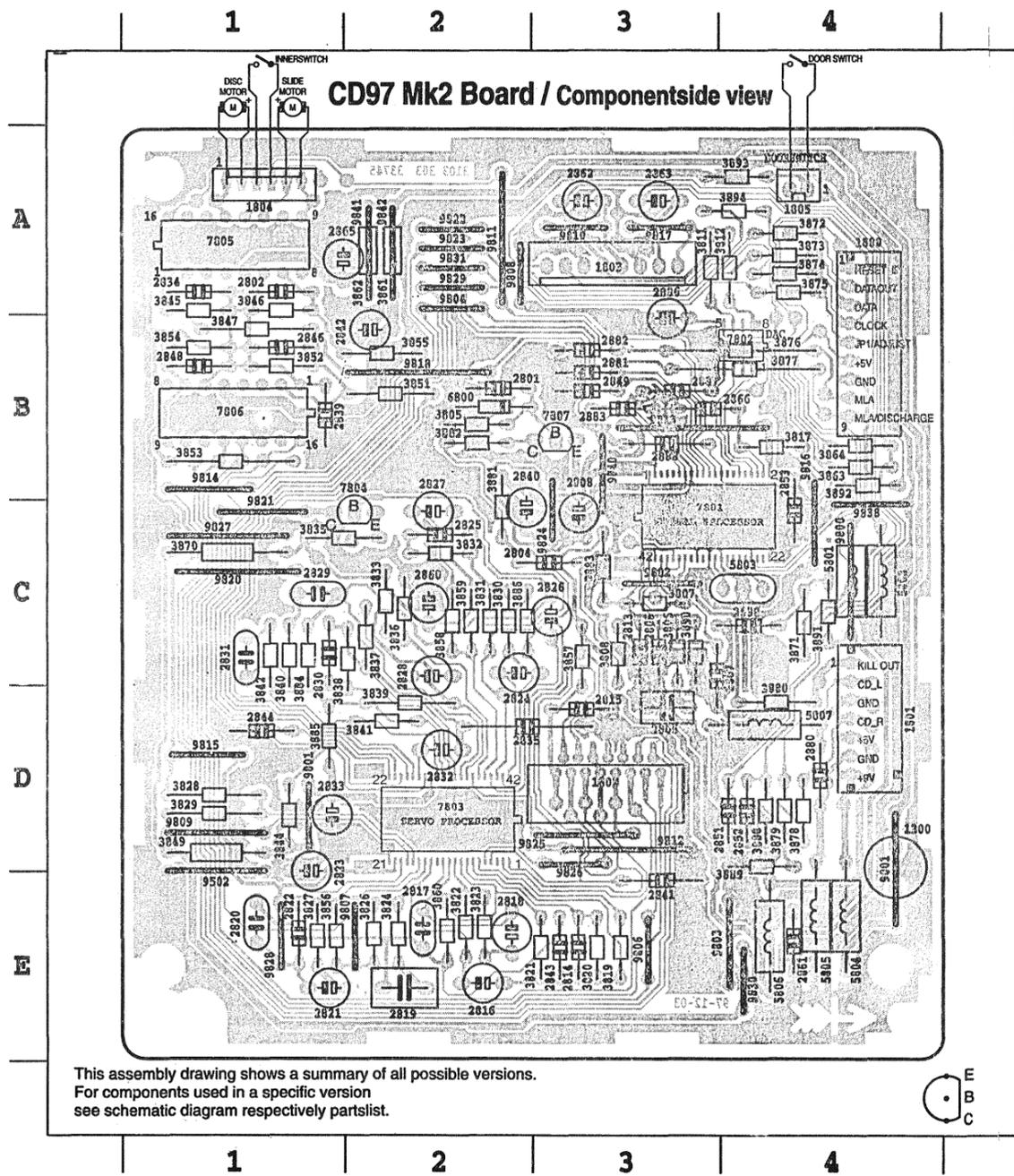
1300 C 1	2533 D 2	3238 B 5	3567 B 2	9501 D 2
1301 B 1	2535 B 2	3500 B 2	3568 A 1	9510 C 1
1302 C 1	2537 C 2	3501 C 2	3569 B 2	9511 C 5
1303 D 1	2538 C 2	3502 B 2	3570 D 2	9512 B 3
1304 C 1	2539 B 3	3503 C 2	3571 D 2	9513 C 5
1305 C 5	2540 D 2	3504 B 2	3572 D 2	9514 C 4
1510 C 5	2541 D 2	3505 C 2	3573 D 2	9515 C 3
1511 D 2	2542 D 3	3506 B 2	3574 C 3	9516 C 4
1520 C 3	2543 D 3	3507 B 2	3575 B 3	9517 D 3
1521 C 5	2544 D 3	3508 C 4	3576 C 3	9518 C 4
1522 B 5	2545 D 3	3509 C 4	3577 B 2	9519 D 4
1523 C 3	2546 D 3	3510 C 2	3578 B 1	9520 D 4
1524 C 3	2547 D 3	3511 C 2	3580 D 3	9521 D 3
1525 B 5	2548 D 3	3512 D 2	3581 D 3	9522 D 4
1526 C 5	2549 D 3	3513 D 2	3582 D 3	9523 D 2
1527 C 4	2550 D 3	3514 C 2	3583 D 3	9524 C 4
1528 C 4	2551 D 3	3515 C 2	3584 C 4	9525 D 2
1529 C 4	2552 D 3	3516 C 2	3585 D 4	9526 C 3
1530 A 3	2553 D 4	3517 C 2	3588 D 4	9527 C 3
2303 B 4	2554 D 4	3518 B 3	3589 D 4	9528 D 3
2304 B 3	2555 D 4	3519 B 3	3590 D 5	9529 B 2
2305 D 1	2556 D 4	3520 C 3	3591 D 5	9530 B 2
2306 C 1	2560 D 4	3521 C 3	3592 D 4	9531 D 2
2307 C 1	2561 D 4	3522 C 3	3593 D 5	9532 D 4
2308 C 1	2562 D 5	3523 C 3	3594 C 5	9533 C 4
2309 C 1	2563 D 5	3524 C 2	3595 C 5	9534 C 4
2310 C 5	2564 D 5	3525 A 1	3596 D 5	9535 C 4
2311 B 5	2565 D 5	3526 A 1	5310 B 3	9536 B 5
2312 B 4	2566 D 5	3527 A 1	6300 C 1	9537 B 5
2314 B 4	2567 C 4	3528 B 3	6301 C 2	9538 B 3
2315 B 3	2568 C 5	3529 B 5	6302 C 1	9539 B 3
2316 B 3	2569 D 5	3530 B 5	6303 C 2	9540 B 4
2317 A 3	2570 D 5	3531 D 4	6306 B 5	9541 B 4
2318 A 2	2571 D 5	3532 D 4	6307 A 4	9542 B 5
2319 A 3	2572 C 5	3533 C 5	6308 A 4	9543 B 4
2320 A 3	2573 D 5	3534 B 5	6309 A 4	9544 B 4
2321 A 3	2574 B 3	3535 C 4	6310 A 3	9545 C 4
2322 A 3	3208 B 5	3536 D 4	6510 D 5	9546 C 4
2323 A 4	3209 B 4	3537 D 4	6520 B 2	9547 C 4
2324 A 4	3210 B 5	3538 D 4	7210 B 5	9548 C 2
2325 A 4	3211 C 5	3540 A 2	7211 B 5	9549 C 2
2326 A 4	3212 C 5	3541 B 2	7212 B 4	9550 C 2
2327 A 4	3213 B 5	3542 A 2	7214 B 5	9551 C 3
2328 B 4	3214 B 4	3543 B 2	7215 B 4	9552 C 3
2329 B 3	3215 B 3	3544 A 2	7216 B 4	9553 C 3
2510 C 3	3216 B 5	3545 B 2	7217 B 3	9554 C 3
2511 C 3	3217 C 5	3546 A 2	7218 A 3	9555 C 3
2512 A 2	3218 B 4	3547 B 2	7219 A 3	9556 C 3
2513 B 2	3219 B 4	3548 A 2	7220 A 3	
2514 B 2	3220 B 4	3549 B 2	7221 A 3	
2515 A 2	3221 B 3	3550 A 2	7222 B 4	
2516 A 2	3222 B 3	3551 B 2	7223 B 3	
2517 B 2	3223 B 4	3552 A 2	7224 B 4	
2518 A 2	3224 A 3	3553 B 2	7512 B 5	
2519 A 2	3225 A 3	3554 A 2	7513 D 5	
2520 C 4	3226 A 3	3555 B 2	7514 B 2	
2521 C 4	3227 A 3	3556 A 2	7515 C 2	
2522 B 5	3228 A 3	3557 B 2	7516 B 2	
2524 B 1	3229 A 3	3558 A 2	7520 D 5	
2525 B 2	3230 A 3	3559 B 2	7521 C 2	
2526 A 1	3231 A 3	3560 A 2	7522 A 2	
2527 B 2	3232 A 3	3561 B 2	7524 D 3	
2528 A 2	3233 A 3	3562 A 2	7525 D 4	
2529 B 2	3234 B 4	3563 B 2	7526 D 4	
2530 B 1	3235 B 4	3564 A 1	9302 D 1	
2531 A 2	3236 B 5	3565 B 2	9303 D 1	
2532 C 2	3237 B 5	3566 A 1	9500 D 2	

RECORDER BOARD - CIRCUIT DIAGRAM

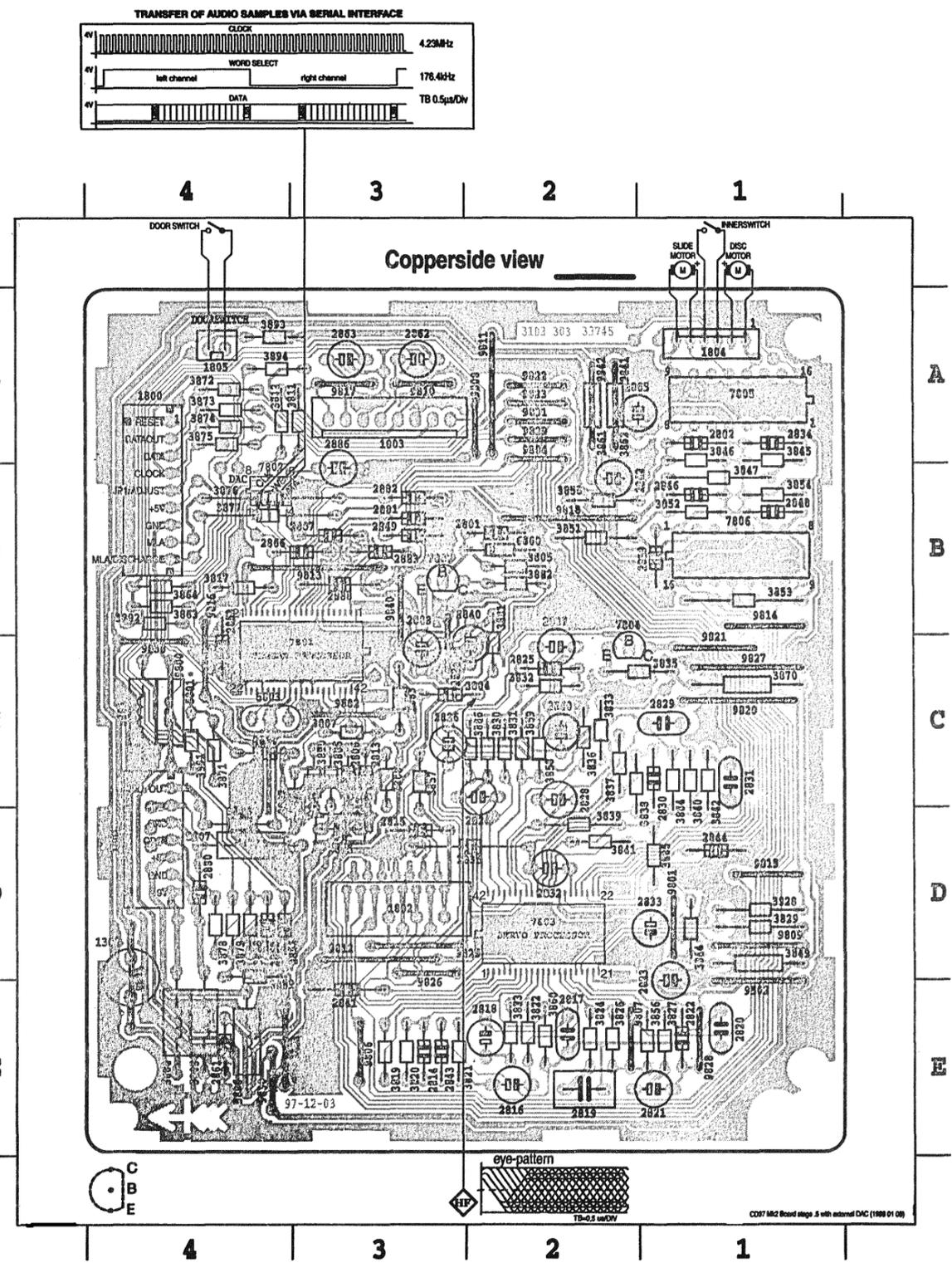
1701	C15	1707c	B 3	1711	H15	2703	G 7	2711	H 5	2718	D 8	2725	G 9	2732	G12	2739	A 2	3705	C 3	3712	E 7	3719	H 9	3727	E 9	3735	F10	3744	G 9	5701	F11	7705b	G 4	T704	B14	T712	G 6	T719	H13
1702	C15	1707d	F 3	1718	F15	2704	C 6	2712	E 7	2719	C 8	2726	G 9	2733	H13	2740	F13	3706	D 4	3713	G 3	3720	F 7	3728	C10	3736	C13	3745	D 6	5704	G 6	7706	D 6	T705	B14	T713	C14	T720	H14
1703	E 2	1707e	E10	1719	C14	2706	B 6	2713	C 4	2720	C 8	2727	F 7	2734	G10	3708	G 8	3707	D 5	3714	F 3	3721	F 5	3730	F12	3737	D13	3746	G 9	7701	C11	7707	G 7	T706	E14	T714	H14	T721	A14
1705	G10	1707f	E10	1720	D14	2708	B 6	2714	C 3	2721	G 3	2728	B 9	2735	G10	3701	D 7	3708	D 8	3715	G 3	3722	A 3	3731	G12	3738	D12	3747	G12	7702	G13	8702	E 1	T707	F14	T715	H14	T722	F 8
1706	D15	1708	H14	1721	G14	2709	C 3	2715	C 6	2722	C13	2729	C13	2736	D 4	3702	B 6	3709	C 8	3716	H 4	3723	A 3	3732	H13	3739	C11	3748	B 3	7703	C 9	T701	A14	T708	F14	T716	F11	T723	G 2
1707a	B 7	1709	A15	1722	D12	2709	G 3	2716	C 6	2723	F 7	2730	G11	2737	H 4	3703	D 3	3710	D 9	3717	H 8	3724	C10	3733	H 5	3740	D11	3749	B 2	7704	B10	T702	A14	T709	D14	T717	F 2	T724	E 2
1707b	F 7	1710	E15	1723	D11	2710	G12	2717	D 7	2724	G 7	2731	G12	2738	A 1	3704	C 3	3711	E 5	3718	G 8	3726	B 9	3734	G13	3743	C 9	3750	E13	7705c	C 4	T703	B14	T711	G14	T718	E 2	T725	C 8



Component layout stage .5



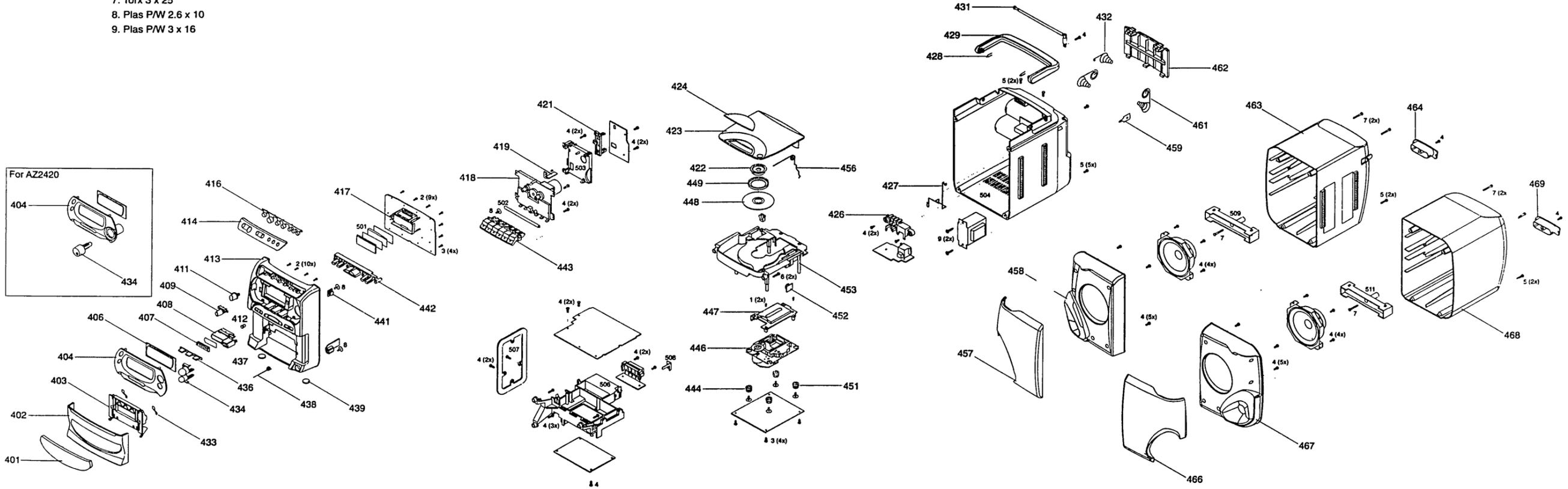
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1800 B 4	3806 C 3	3886 C 2
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1802 D 3	3808 C 3	3889 D 4
1803 A 3	3811 A 3	3890 C 3
1804 A 1	3812 A 4	3891 C 4
1805 A 4	3817 B 4	3892 B 4
2801 B 2	3819 E 3	3893 A 4
2802 A 1	3820 E 3	3894 A 4
2804 C 3	3821 E 3	5801 C 4
2805 D 3	3822 E 2	5802 C 4
2806 C 3	3823 E 2	5803 C 4
2807 C 3	3824 E 2	5804 E 4
2808 C 3	3825 E 2	5805 E 4
2813 C 3	3827 E 1	5806 E 4
2814 E 3	3828 D 1	5807 D 4
2815 D 3	3829 D 1	6800 B 2
2816 E 2	3830 C 2	7801 C 3
2817 E 2	3831 C 2	7802 B 4
2818 E 2	3832 C 2	7803 D 2
2819 E 2	3833 C 2	7804 C 2
2820 E 1	3835 C 1	7805 A 1
2821 E 1	3836 C 2	7808 B 1
2822 E 1	3837 C 2	7807 B 3
2823 E 1	3838 C 2	9001 D 4
2824 C 2	3839 D 2	9502 E 1
2825 C 2	3840 C 1	9800 C 4
2826 C 3	3841 D 2	9801 D 1
2827 C 2	3842 C 1	9802 C 3
2828 C 2	3844 D 1	9803 E 4
2829 C 1	3845 A 1	9804 A 2
2830 C 1	3846 A 1	9806 E 3
2831 C 1	3847 B 1	9807 E 2
2832 D 2	3849 D 1	9808 A 2
2833 D 1	3851 B 2	9809 D 1
2834 A 1	3852 B 1	9810 A 3
2835 D 2	3853 B 1	9811 A 2
2838 C 4	3854 B 1	9812 D 3
2839 B 1	3855 B 2	9813 B 3
2840 C 2	3856 E 1	9814 B 1
2841 E 3	3857 C 3	9815 D 1
2842 B 2	3858 C 2	9816 C 4
2843 E 3	3859 C 2	9817 A 3
2844 D 1	3860 E 2	9818 B 2
2846 B 1	3861 A 2	9820 C 1
2848 B 1	3862 A 2	9821 C 1
2849 B 3	3863 B 4	9822 A 2
2851 D 4	3864 B 4	9823 A 2
2852 D 4	3870 C 1	9824 C 3
2853 C 4	3871 C 4	9825 D 3
2860 C 2	3872 A 4	9826 D 3
2861 E 4	3873 A 4	9827 C 1
2862 A 3	3874 A 4	9828 E 1
2863 A 3	3875 A 4	9829 A 2
2865 A 1	3876 B 4	9830 E 4
2866 B 3	3877 B 4	9831 A 2
2880 D 4	3878 D 4	9838 C 4
2881 B 3	3879 D 4	9840 B 3
2882 B 3	3880 D 4	9841 A 2
2883 B 3	3881 C 2	9842 A 2
2886 B 3	3882 B 2	
2887 B 3	3883 C 3	
2888 B 3	3884 C 1	



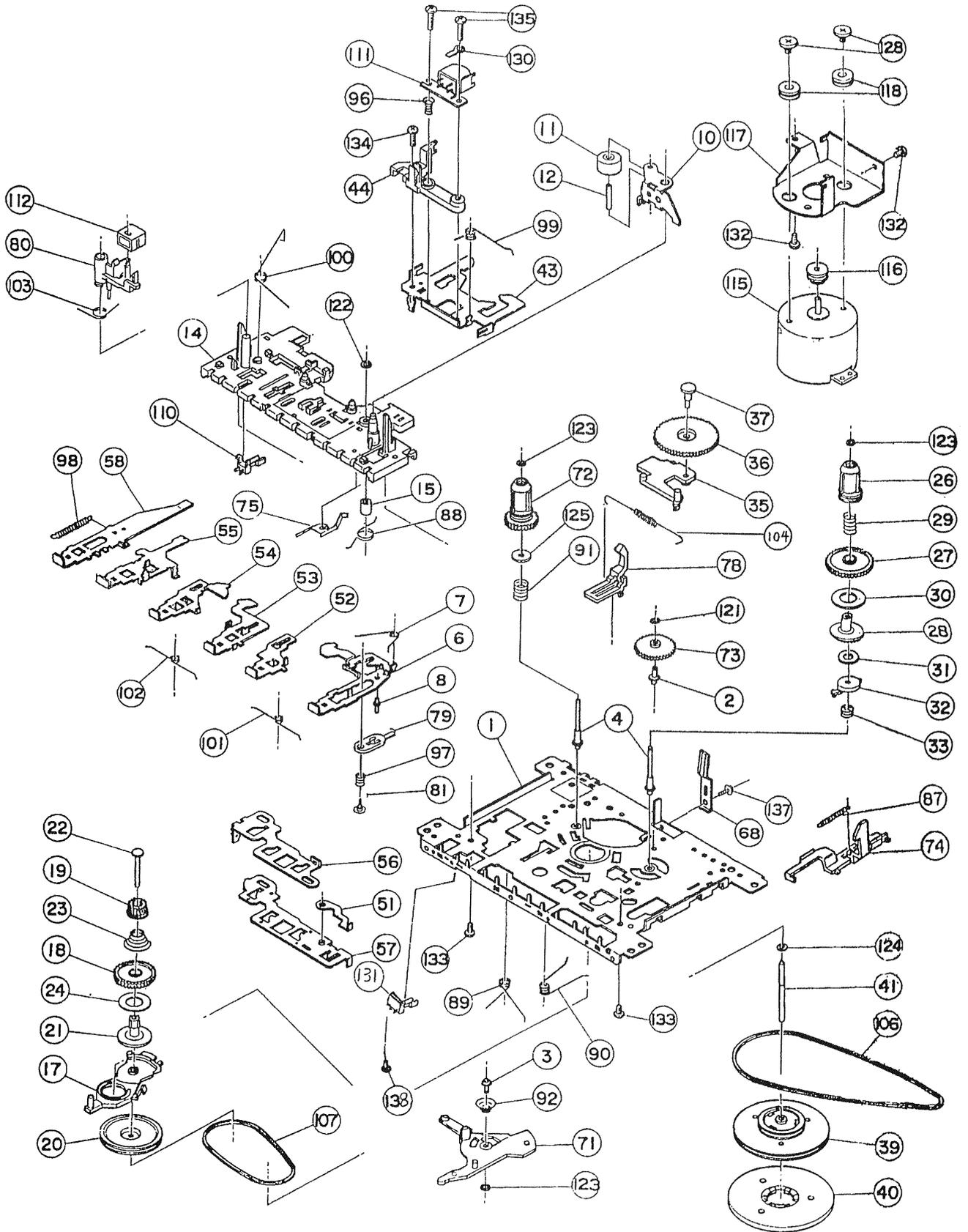
EXPLODED VIEW DIAGRAM - CABINET

SCREW LIST

- 1. M2 x 6
- 2. Torx 2 x 8
- 3. Torx 2 x 12
- 4. Torx 3 x 10
- 5. Torx 3 x 12
- 6. Torx 3 x 16
- 7. Torx 3 x 25
- 8. Plas P/W 2.6 x 10
- 9. Plas P/W 3 x 16



EXPLODED VIEW DIAGRAM - TAPE DECK



22 AZ 2425 Lista de Peças

ITEM	CÓDIGO	DESCRICAO
456	3140 111 00600	MOLA CD ACO
459	3140 111 21320	PLACA DE CONTATO
416	3140 114 31950	BOTÃO-CD AZ2425
424	3140 113 22280	ORNAMENTO PLASTICO-CD AZ2425
411	3140 114 31980	BOTÃO-POWER AZ2425
409	3140 114 31990	BOTÃO-MODE AZ2425
407	3140 114 32000	CAPA-INCR. SOUND AZ2425
442	3140 114 32030	BOTÃO-TUNING AZ2425
406	3140 114 32040	LENTE-FRONTAL AZ2425
402	3140 114 32050	TAMPA CASSETE AZ2425
443	3140 114 32070	TECLAS CASSETE AZ2425
457	3140 114 32110	SUPORTE ALTOFALN. ESQ AZ2425
447	4822 691 10654	CONJ DRIVE DA11
	4806 502 77021	PARAF 3X12 TORX SCR ST ZN
	3140 111 00570	MOLA AÇO TAMPA CASSETE
	3139 118 10000	DISCO
	4806 502 77021	PARAF 3X12 TORX SCR ST ZN
	3106 208 00211	CJ TRANSM.I.VERM RC0786/78 EMB
	3139 147 65242	PARTE SUP RC0786/01
	3139 118 73620	UNIDADE HIDRAULICA ABS MOD.0.8
	4806 502 77021	PARAF 3X12 TORX SCR ST ZN
	3140 114 16360	ANTENA GIRATORIA
	3139 144 11563	PARTE INFERIOR RC07
	3140 118 71070	ANTENA TELESCOPICA
	4806 502 77018	PARAF 3X16 TORX SCR ST ZN
	4806 502 77018	PARAF 3X16 TORX SCR ST ZN
	3103 304 62110	PORTA CASSETE ABS
	3139 144 11572	PORTA BATERIA ABS RC07
	3140 114 21400	GUIA LUZ ABS AZ2425
	4806 502 77021	PARAF 3X12 TORX SCR ST ZN
	4806 502 77021	PARAF 3X12 TORX SCR ST ZN
	4806 502 77018	PARAF 3X16 TORX SCR ST ZN
	3140 114 13890	AMORTECEDOR-BORRACHA (30GRS)
	4806 502 77021	PARAF 3X12 TORX SCR ST ZN
	4806 502 77018	PARAF 3X16 TORX SCR ST ZN
	3103 301 20680	EIXO DA CHAVE ACO
	3140 114 13900	AMORTECEDOR-BORRACHA (40GRS)
	3140 113 21170	ORNAMENTO PLAST VISOR
	8240 009 00650	UNIDADE HIDRAULICA ABS MOD.0.8
	3140 113 20790	PE DE BORRACHA
	3140 111 00310	MOLA AÇO - ALÇA
	3199 297 53120	ANEL MAGNETICO
	4806 502 77018	PARAF 3X16 TORX SCR ST ZN
	4806 502 77018	PARAF 3X16 TORX SCR ST ZN
	4806 502 77018	PARAF 3X16 TORX SCR ST ZN
	2422 127 00494	CHAVE SLID 1P 2POS SKG
	2422 025 04853	CONECTOR 5P
	2422 025 04849	CONECTOR 2P
	3140 117 57071	CONJ ALCA-SUP (T2) ABS
	3103 304 63690	PORTA-CD POLIACETAL
	3140 117 57081	CONJ SUPORTE AF
	3140 117 57091	CONJ GABINETE FRONTAL AZ2407
	3140 117 57101	CONJ CD
	3140 117 57111	CONJ GABINETE TRASEIRO AZ2407
	3106 308 59631	CJ CAIXA ACÚSTICA AZ2425/19
	3140 114 15950	PORTA CD PS
	3140 114 15970	BANDEJA CD PS AZ2425
	3140 114 15990	GABINETE FRONTAL PS AZ2425
	3140 113 21180	DIFUSOR- IS
	3140 114 16030	BOTÃO INCR. SOUND ABS AZ2425
	3140 114 32010	BOTÃO-DISC AZ2425
	3140 114 32020	BOTÃO-VOLUME AZ2425
	3103 304 06300	GUIA DE LUZ (I.VERM)
	3140 114 16120	GUIA DE LUZ DSC PA AZ2425
	3140 114 32060	LENTE CASSETE AZ2425

ITEM	CÓDIGO	DESCRICAO
	3140 114 16170	GABINETE TRASEIRO PS AZ2425
	3140 114 16180	PORTA BATERIA PS
	3140 114 15960	ALÇA ABS
	3140 114 16190	GABINETE FRONTAL AF AZ2425
	3140 114 16210	GABINETE TRAS CX ACUST ESQ PS
	3140 114 16220	GABINETE FRONTAL AF (D) AZ2425
	3140 114 32150	SUPORTE ALTOFALNTE DIR AZ2425
	3140 114 16240	GABINETE TRAS CX ACUST DIR AZ
	3140 118 70730	CONJ CORDAO REDE - VDE
	3140 113 21290	ORNAMENTO PLAST SEL VOLTAGEM
	3140 103 10150	PONTEIRO FELTRO
	3103 308 51811	MODULO CD 97 MKII ED
	3140 117 13811	CONJ TAPE DECK Z55
	3140 118 31350	TRANSFORMADOR AZ2407
	2422 128 02859	CHAVE-LATCH 1P 2POS V DLS
	3139 118 70680	SOQUETE REDE (IEC) SW
	2422 025 04849	CONECTOR 2P
	2422 129 15462	SELVOLT 1P 1A V PIN HXW0350
	2422 086 01219	FUSIVEL T A 5X20 250V 2A
	4806 402 67237	CONECTOR 3P
	2422 025 09012	CONECTOR 3P
1450	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1451	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1452	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1453	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1454	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1455	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1456	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1457	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1458	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1459	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1460	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1461	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1462	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1463	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1464	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1465	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1466	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1467	4806 277 27122	CHAVE TACT H=4.3 160G SKQNAB
1490	4806 266 37006	CONECTOR 4P
1491	2422 025 04857	CONECTOR 10P
1492	2422 025 04857	CONECTOR 10P
1495	2422 025 04849	CONECTOR 2P
1496	3139 118 40560	CHAVE REDE PUSH 2P2T DIL
1497	2422 025 04849	CONECTOR 2P
1510	2422 025 09904	CONECTOR 4P
1511	4806 266 37006	CONECTOR 4P
1512	4806 266 37006	CONECTOR 4P
1513	2422 025 09904	CONECTOR 4P
1514	2422 026 05076	CONECTOR BM PHON H 1P F 3.5 ST
1515	2422 026 04001	CONECTOR 4P
1520	4806 402 67238	CONECTOR 6P
1521	2422 025 04849	CONECTOR 2P
1522	4806 402 67237	CONECTOR 3P
1523	2422 025 04853	CONECTOR 5P
1524	4806 402 67238	CONECTOR 6P
1525	4806 265 47017	CONECTOR 2P
1526	4806 265 47017	CONECTOR 2P
1527	2422 025 04874	CONECTOR 10P
1529	2422 025 04849	CONECTOR 2P
1700	3140 117 12501	MTF-SD-BAS
1703	2422 025 12479	CONECTOR CI 4P M 2.50 EH B
1705	2422 025 09012	CONECTOR 3P
1707	4806 265 47015	SWI SLID 6P 2POS RSD62D01 B
1709	2422 025 12482	CONECTOR CI 6P M 2.50 EH B

ITEM	CÓDIGO	DESCRICAO
1719	2412 020 00724	CONECTOR CI 2P M 2.50 EH B
1721	2412 020 00724	CONECTOR CI 2P M 2.50 EH B
1800	2422 025 06354	CONECTOR CI 9P M 2.50 EH B
1801	2422 025 08772	CON BM H 8P M 2.50 XH B
1801	2422 025 10738	CONECTOR CI 6P M 2.50 EH B
1802	2422 025 12132	CONECTOR BM HOR 15P F 1.00
1803	2422 025 08778	CONECTOR 8P
1804	2422 025 08149	CONECTOR 6P
2101	4806 122 37282	CCER SM 0805 NP0 50V 100P PM5
2104	4806 122 17006	CAP 100P 50V PM10 CER TUB
2106	4806 125 67008	CTRIM SINT AM/FM 100V 3P-10P
2107	4806 124 47071	CAP FLM MPES CI 63V 1U PM10
2120	4806 122 37289	CCER SM 0805 NP0 50V 22P PM5
2125	4806 120 47378	CAP 560P 630V PM1 PP
2126	4806 122 37292	CCER SM 0805 NP0 50V 330P PM5
2130	4806 120 17345	CAP 22N 25V M20P80 CER TUB
2138	4806 124 27562	CAP EL UG AL CI 50V 2U2 PM20
2145	4806 122 37288	CCER SM 0805 NP0 50V 220P PM5
2146	4806 122 37288	CCER SM 0805 NP0 50V 220P PM5
2147	4806 122 37288	CCER SM 0805 NP0 50V 220P PM5
2148	4806 120 17345	CAP 22N 25V M20P80 CER TUB
2153	4806 122 37286	CCER SM 0805 NP0 50V 15P PM5
2155	4806 125 67008	CTRIM SINT AM/FM 100V 3P-10P
2159	4806 122 37293	CCER SM 0805 NP0 50V 33P PM5
2167	4806 120 57023	CCER SM 0805 NP0 50V 12P PM5
2168	4806 120 57025	CCER SM 0805 NP0 50V 82P PM5
2305	4806 124 47069	CAP FLM MPES CI 63V 100N PM10
2306	4806 122 17012	CAP 1N 50V PM10 CER TUB
2307	4806 122 17012	CAP 1N 50V PM10 CER TUB
2308	4806 122 17012	CAP 1N 50V PM10 CER TUB
2309	4806 122 17012	CAP 1N 50V PM10 CER TUB
2310	4806 124 27574	CAP EL UG AL CI 16V 4700U PM20
2312	4806 124 47049	CAP EL UG AL CI 10V 470U PM20
2314	4806 124 47049	CAP EL UG AL CI 10V 470U PM20
2318	4806 122 17006	CAP 100P 50V PM10 CER TUB
2319	4806 122 17007	CAP 10N 16V PM20 CER TUB
2320	4806 122 17007	CAP 10N 16V PM20 CER TUB
2321	4806 122 17007	CAP 10N 16V PM20 CER TUB
2323	4806 122 17012	CAP 1N 50V PM10 CER TUB
2324	4806 122 17012	CAP 1N 50V PM10 CER TUB
2325	4806 122 17012	CAP 1N 50V PM10 CER TUB
2327	4806 122 17012	CAP 1N 50V PM10 CER TUB
2405	4806 120 17376	CAP 470P 50V PM10 CER TUB
2406	4806 120 17376	CAP 470P 50V PM10 CER TUB
2407	4806 120 17376	CAP 470P 50V PM10 CER TUB
2411	4806 120 17376	CAP 470P 50V PM10 CER TUB
2414	4806 120 17345	CAP 22N 25V M20P80 CER TUB
2417	4806 120 17345	CAP 22N 25V M20P80 CER TUB
2418	4806 120 17345	CAP 22N 25V M20P80 CER TUB
2420	4806 120 17376	CAP 470P 50V PM10 CER TUB
2421	4806 120 17376	CAP 470P 50V PM10 CER TUB
2450	4806 120 17376	CAP 470P 50V PM10 CER TUB
2451	4806 120 17376	CAP 470P 50V PM10 CER TUB
2452	4806 120 17376	CAP 470P 50V PM10 CER TUB
2453	4806 120 17376	CAP 470P 50V PM10 CER TUB
2454	4806 122 17007	CAP 10N 16V PM20 CER TUB
2455	4806 120 17376	CAP 470P 50V PM10 CER TUB
2458	4806 122 17012	CAP 1N 50V PM10 CER TUB
2510	4806 124 27562	CAP EL UG AL CI 50V 2U2 PM20
2511	4806 124 27562	CAP EL UG AL CI 50V 2U2 PM20
2512	4806 122 17007	CAP 10N 16V PM20 CER TUB
2513	4806 122 17007	CAP 10N 16V PM20 CER TUB
2516	4806 122 17019	CAP 2N2 16V PM10 CER TUB
2517	4806 122 17019	CAP 2N2 16V PM10 CER TUB
2518	4806 120 17292	CAP 220P 50V PM10 CER TUB

ITEM	CÓDIGO	DESCRICAO
2519	4806 120 17292	CAP 220P 50V PM10 CER TUB
2520	4806 120 17376	CAP 470P 50V PM10 CER TUB
2521	4806 120 17376	CAP 470P 50V PM10 CER TUB
2540	4806 124 27562	CAP EL UG AL CI 50V 2U2 PM20
2541	4806 124 27562	CAP EL UG AL CI 50V 2U2 PM20
2549	4806 124 47069	CAP FLM MPES CI 63V 100N PM10
2550	4806 124 47069	CAP FLM MPES CI 63V 100N PM10
2551	4806 124 47069	CAP FLM MPES CI 63V 100N PM10
2552	4806 124 47069	CAP FLM MPES CI 63V 100N PM10
2564	4806 122 37148	CAP 680P 50V PM10 CER DC
2565	4806 122 37148	CAP 680P 50V PM10 CER DC
2572	4806 124 47049	CAP EL UG AL CI 10V 470U PM20
2573	4806 124 47049	CAP EL UG AL CI 10V 470U PM20
2712	4806 122 17019	CAP 2N2 16V PM10 CER TUB
2714	4806 122 17019	CAP 2N2 16V PM10 CER TUB
2716	4806 120 17345	CAP 22N 25V M20P80 CER TUB
2718	4806 120 17292	CAP 220P 50V PM10 CER TUB
2721	4806 122 17019	CAP 2N2 16V PM10 CER TUB
2723	4806 120 17345	CAP 22N 25V M20P80 CER TUB
2725	4806 120 17292	CAP 220P 50V PM10 CER TUB
2727	4806 122 17019	CAP 2N2 16V PM10 CER TUB
2730	4806 122 17017	CAP 680P 50V PM10 CER TUB
2734	4806 120 17292	CAP 220P 50V PM10 CER TUB
2734	4806 120 17292	CAP 220P 50V PM10 CER TUB
2736	4806 122 17017	CAP 680P 50V PM10 CER TUB
2737	4806 122 17017	CAP 680P 50V PM10 CER TUB
2738	4806 120 17376	CAP 470P 50V PM10 CER TUB
2739	4806 120 17376	CAP 470P 50V PM10 CER TUB
2801	4806 122 17015	CAP 3N3 16V PM10 CER TUB
2801	4806 122 17007	CAP 10N 16V PM20 CER TUB
2802	4806 120 17376	CAP 470P 50V PM10 CER TUB
2802	4806 122 17007	CAP 10N 16V PM20 CER TUB
2804	4806 122 17015	CAP 3N3 16V PM10 CER TUB
2805	4806 120 17376	CAP 470P 50V PM10 CER TUB
2805	4806 124 47072	CAP FLM MPES CI 63V 220N PM10
2806	4806 122 17017	CAP 680P 50V PM10 CER TUB
2813	4806 122 17019	CAP 2N2 16V PM10 CER TUB
2815	4806 122 17007	CAP 10N 16V PM20 CER TUB
2819	4806 124 47069	CAP FLM MPES CI 63V 100N PM10
2822	4806 120 17345	CAP 22N 25V M20P80 CER TUB
2832	4806 124 27562	CAP EL UG AL CI 50V 2U2 PM20
2835	4806 122 17007	CAP 10N 16V PM20 CER TUB
2839	4806 122 17007	CAP 10N 16V PM20 CER TUB
2844	4806 120 17292	CAP 220P 50V PM10 CER TUB
2846	4806 120 17376	CAP 470P 50V PM10 CER TUB
2848	4806 120 17376	CAP 470P 50V PM10 CER TUB
2849	4806 122 17006	CAP 100P 50V PM10 CER TUB
2851	4806 122 17012	CAP 1N 50V PM10 CER TUB
2852	4806 122 17012	CAP 1N 50V PM10 CER TUB
2853	4806 122 17007	CAP 10N 16V PM20 CER TUB
2861	4806 122 17007	CAP 10N 16V PM20 CER TUB
2866	4806 122 17012	CAP 1N 50V PM10 CER TUB
2880	4806 122 17007	CAP 10N 16V PM20 CER TUB
2881	4806 122 17006	CAP 100P 50V PM10 CER TUB
2882	4806 122 17006	CAP 100P 50V PM10 CER TUB
2883	4806 122 17007	CAP 10N 16V PM20 CER TUB
2887	4806 122 17007	CAP 10N 16V PM20 CER TUB
2888	4806 122 17007	CAP 10N 16V PM20 CER TUB
3001	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3105	4806 116 57388	RES FIX MFILM SFR16 A 220R PM5
3110	4806 116 57174	RES FIX MFILM SFR16 A 47R PM5
3132	4806 116 57174	RES FIX MFILM SFR16 A 47R PM5
3142	4806 100 27027	POT 100K CAR LIN EVNDXA
3152	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3153	4806 111 97095	RST SM 0805 RC11 470R PM5

ITEM	CÓDIGO	DESCRICAO
3154	4806 116 57116	RES FIX MFILM SFR16 A 120R PM5
3158	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3159	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3160	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3161	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3170	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3173	4806 116 57465	RES FIX MFILM SFR16 A 330R PM5
3208	4806 116 57497	RES 4R7 NFR25 PM5 MET FILM
3209	4806 116 57649	RES 3R3 SFR16 PM5 MET FILM
3210	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3211	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3212	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3213	4806 116 57497	RES 4R7 NFR25 PM5 MET FILM
3214	4806 116 57649	RES 3R3 SFR16 PM5 MET FILM
3215	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3216	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3217	4806 116 57388	RES FIX MFILM SFR16 A 220R PM5
3218	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3219	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3220	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3221	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3222	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3223	4806 116 57376	RES FIX MFILM SFR16 A 180R PM5
3224	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3225	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3226	4806 116 57226	RES FIX MFILM SFR16 A 1M PM5
3227	4806 116 57193	RES FIX MFILM SFR16 A 470K PM5
3228	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3229	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3230	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3231	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3232	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3233	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3234	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3235	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3236	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3237	4806 116 57649	RES 3R3 SFR16 PM5 MET FILM
3238	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3400	4806 116 57127	RES FIX MFILM SFR16 A 1K5 PM5
3404	4806 116 57388	RES FIX MFILM SFR16 A 220R PM5
3405	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3414	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3415	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3416	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3417	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3418	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3419	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3420	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3421	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3422	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3423	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3424	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3425	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3426	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3427	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3428	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3429	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3431	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3432	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3433	4806 116 57388	RES FIX MFILM SFR16 A 220R PM5
3434	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3435	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3436	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3437	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3438	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5

ITEM	CÓDIGO	DESCRICAO
3439	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3440	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3441	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3442	4806 116 57385	RES FIX MFILM SFR16 A 100R PM5
3443	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3444	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3445	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3446	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3449	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3450	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3451	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3452	4806 116 57149	RES FIX MFILM SFR16 A 33R PM5
3453	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3456	4806 110 67146	RES FIX MFILM SFR16 A 15K PM5
3457	4806 116 57123	RES FIX MFILM SFR16 A 5K6 PM5
3458	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3459	4806 110 67140	RES FIX MFILM SFR16 A 47K PM5
3460	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3462	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3463	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3464	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3465	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3466	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3467	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3468	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3469	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3470	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3471	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3472	4806 116 57126	RES FIX MFILM SFR16 A 560R PM5
3473	4806 116 57202	RES FIX MFILM SFR16 A 1K8 PM5
3474	4806 116 57385	RES FIX MFILM SFR16 A 100R PM5
3475	4806 110 67146	RES FIX MFILM SFR16 A 15K PM5
3476	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3477	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3478	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3479	4806 110 67140	RES FIX MFILM SFR16 A 47K PM5
3480	4806 110 67140	RES FIX MFILM SFR16 A 47K PM5
3483	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3484	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3485	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3486	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3487	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3488	4806 116 57186	RES FIX MFILM SFR16 A 150R PM5
3489	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3490	4806 116 57186	RES FIX MFILM SFR16 A 150R PM5
3491	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3492	4806 116 57186	RES FIX MFILM SFR16 A 150R PM5
3493	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3494	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3495	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3497	4806 116 57186	RES FIX MFILM SFR16 A 150R PM5
3498	4806 116 57186	RES FIX MFILM SFR16 A 150R PM5
3499	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3500	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3501	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3502	4806 116 57478	RES FIX MFILM SFR16 A 3K3 PM5
3503	4806 116 57478	RES FIX MFILM SFR16 A 3K3 PM5
3504	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3505	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3506	4806 116 57123	RES FIX MFILM SFR16 A 5K6 PM5
3507	4806 116 57123	RES FIX MFILM SFR16 A 5K6 PM5
3508	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3509	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3510	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3511	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5

ITEM	CÓDIGO	DESCRICAO
3514	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3515	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3516	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3517	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3518	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3519	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3520	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3521	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3522	4806 116 57478	RES FIX MFILM SFR16 A 3K3 PM5
3523	4806 116 57478	RES FIX MFILM SFR16 A 3K3 PM5
3524	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3525	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3526	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3527	4806 116 57149	RES FIX MFILM SFR16 A 33R PM5
3528	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3529	4806 116 57385	RES FIX MFILM SFR16 A 100R PM5
3530	4806 116 57385	RES FIX MFILM SFR16 A 100R PM5
3531	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3532	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3533	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3534	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3535	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3536	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3537	4806 116 57226	RES FIX MFILM SFR16 A 1M PM5
3538	4806 116 57226	RES FIX MFILM SFR16 A 1M PM5
3542	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3543	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3544	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3545	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3546	4806 116 57129	RES FIX MFILM SFR16 A 82K PM5
3547	4806 116 57129	RES FIX MFILM SFR16 A 82K PM5
3548	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3549	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3550	4806 116 57215	RES FIX MFILM SFR16 A 150K PM5
3551	4806 116 57215	RES FIX MFILM SFR16 A 150K PM5
3552	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3553	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3554	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3555	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3556	4806 110 67140	RES FIX MFILM SFR16 A 47K PM5
3557	4806 110 67140	RES FIX MFILM SFR16 A 47K PM5
3558	4806 110 67142	RES FIX MFILM SFR16 A 56K PM5
3559	4806 110 67142	RES FIX MFILM SFR16 A 56K PM5
3560	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3561	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3562	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3563	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3564	4806 116 57202	RES FIX MFILM SFR16 A 1K8 PM5
3565	4806 116 57202	RES FIX MFILM SFR16 A 1K8 PM5
3566	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3567	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3568	4806 116 57153	RES FIX MFILM SFR16 A 390R PM5
3569	4806 116 57153	RES FIX MFILM SFR16 A 390R PM5
3570	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3571	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3572	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3573	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3574	4806 116 57114	RES FIX MFILM SFR16 A 10R PM5
3575	4806 116 57379	RES FIX MFILM SFR16 A 330K PM5
3576	4806 116 57215	RES FIX MFILM SFR16 A 150K PM5
3577	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3578	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3580	4806 110 67145	RES FIX MFILM SFR16 A 2K7 PM5
3581	4806 110 67145	RES FIX MFILM SFR16 A 2K7 PM5
3582	4806 116 57123	RES FIX MFILM SFR16 A 5K6 PM5

ITEM	CÓDIGO	DESCRICAO
3583	4806 116 57123	RES FIX MFILM SFR16 A 5K6 PM5
3584	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3585	4806 116 57145	RES FIX MFILM SFR16 A 2K2 PM5
3588	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3589	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3590	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3591	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3592	4806 116 57388	RES FIX MFILM SFR16 A 220R PM5
3593	4806 116 57388	RES FIX MFILM SFR16 A 220R PM5
3594	4806 116 57114	RES FIX MFILM SFR16 A 10R PM5
3595	4806 116 57123	RES FIX MFILM SFR16 A 5K6 PM5
3596	4806 116 57206	RES FIX MFILM SFR16 A 8K2 PM5
3615	4806 116 57174	RES FIX MFILM SFR16 A 47R PM5
3700	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3701	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3702	4806 116 57385	RES FIX MFILM SFR16 A 100R PM5
3703	4806 116 57174	RES FIX MFILM SFR16 A 47R PM5
3704	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3705	4806 116 57388	RES FIX MFILM SFR16 A 220R PM5
3706	4806 116 57215	RES FIX MFILM SFR16 A 150K PM5
3707	4806 116 57215	RES FIX MFILM SFR16 A 150K PM5
3708	4806 116 57115	RES FIX MFILM SFR16 A 6K8 PM5
3709	4806 116 57115	RES FIX MFILM SFR16 A 6K8 PM5
3710	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3711	4806 116 57146	RES FIX MFILM SFR16 A 1K2 PM5
3712	4806 116 57206	RES FIX MFILM SFR16 A 8K2 PM5
3713	4806 116 57174	RES FIX MFILM SFR16 A 47R PM5
3714	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3715	4806 116 57388	RES FIX MFILM SFR16 A 220R PM5
3716	4806 116 57215	RES FIX MFILM SFR16 A 150K PM5
3717	4806 116 57115	RES FIX MFILM SFR16 A 6K8 PM5
3718	4806 116 57115	RES FIX MFILM SFR16 A 6K8 PM5
3719	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3720	4806 116 57206	RES FIX MFILM SFR16 A 8K2 PM5
3721	4806 116 57146	RES FIX MFILM SFR16 A 1K2 PM5
3722	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3723	4806 116 57137	RES FIX MFILM SFR16 A 22K PM5
3724	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3726	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3727	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3728	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3730	4806 116 57179	RES FIX MFILM SFR16 A 22R PM5
3731	4806 116 57129	RES FIX MFILM SFR16 A 82K PM5
3732	4806 116 57114	RES FIX MFILM SFR16 A 10R PM5
3733	4806 116 57643	RES CARB 4M7 PM5
3734	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3735	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3736	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3737	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3738	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3739	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3740	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3743	4806 116 57478	RES FIX MFILM SFR16 A 3K3 PM5
3744	4806 116 57478	RES FIX MFILM SFR16 A 3K3 PM5
3745	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3746	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3747	4806 116 57149	RES FIX MFILM SFR16 A 33R PM5
3748	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3749	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3801	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3802	4806 110 67145	RES FIX MFILM SFR16 A 2K7 PM5
3803	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3804	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3805	4806 116 57174	RES FIX MFILM SFR16 A 47R PM5
3805	4806 116 57186	RES FIX MFILM SFR16 A 150R PM5

ITEM	CÓDIGO	DESCRICAO
3806	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3806	4806 116 57202	RES FIX MFILM SFR16 A 1K8 PM5
3807	4806 110 67145	RES FIX MFILM SFR16 A 2K7 PM5
3807	4806 116 57197	RES FIX MFILM SFR16 A 33K PM5
3808	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3808	4806 110 67145	RES FIX MFILM SFR16 A 2K7 PM5
3809	4806 116 57385	RES FIX MFILM SFR16 A 100R PM5
3810	4806 116 57349	RES FIX MFILM SFR16 A 680K PM5
3811	4806 116 57349	RES FIX MFILM SFR16 A 680K PM5
3811	4806 116 57465	RES FIX MFILM SFR16 A 330R PM5
3812	4806 116 57226	RES FIX MFILM SFR16 A 1M PM5
3812	4806 116 57465	RES FIX MFILM SFR16 A 330R PM5
3813	4806 116 57226	RES FIX MFILM SFR16 A 1M PM5
3817	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3819	4806 110 67164	RES FIX MFILM SFR16 A 1M5 PM5
3820	4806 116 57199	RES FIX MFILM SFR16 A 180K PM5
3821	4806 116 57127	RES FIX MFILM SFR16 A 1K5 PM5
3822	4806 116 57213	RES FIX MFILM SFR16 A 27K PM5
3823	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3824	4806 116 57186	RES FIX MFILM SFR16 A 150R PM5
3826	4806 116 57115	RES FIX MFILM SFR16 A 6K8 PM5
3827	4806 116 57478	RES FIX MFILM SFR16 A 3K3 PM5
3828	4806 116 57119	RES FIX MFILM SFR16 A 68K PM5
3829	4806 110 67140	RES FIX MFILM SFR16 A 47K PM5
3830	4806 110 67146	RES FIX MFILM SFR16 A 15K PM5
3831	4806 116 57221	RES FIX MFILM SFR16 A 18K PM5
3832	4806 116 57153	RES FIX MFILM SFR16 A 390R PM5
3833	4806 116 57213	RES FIX MFILM SFR16 A 27K PM5
3835	4806 116 57363	RES FIX MFILM SFR16 A 18R PM5
3836	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3837	4806 116 57643	RES CARB 4M7 PM5
3838	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3839	4806 116 57226	RES FIX MFILM SFR16 A 1M PM5
3840	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3841	4806 116 57349	RES FIX MFILM SFR16 A 680K PM5
3842	4806 116 57119	RES FIX MFILM SFR16 A 68K PM5
3844	4806 110 67142	RES FIX MFILM SFR16 A 56K PM5
3845	4806 116 57392	RES FIX MFILM SFR16 A 4K7 PM5
3846	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3847	4806 116 57144	RES FIX MFILM SFR16 A 120K PM5
3849	4806 116 57497	RES 4R7 NFR25 PM5 MET FILM
3851	4806 110 67146	RES FIX MFILM SFR16 A 15K PM5
3852	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3853	4806 116 57221	RES FIX MFILM SFR16 A 18K PM5
3854	4806 116 57127	RES FIX MFILM SFR16 A 1K5 PM5
3855	4806 116 57213	RES FIX MFILM SFR16 A 27K PM5
3856	4806 116 57206	RES FIX MFILM SFR16 A 8K2 PM5
3857	4806 116 57478	RES FIX MFILM SFR16 A 3K3 PM5
3858	4806 116 57139	RES FIX MFILM SFR16 A 1R PM5
3859	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3860	4806 116 57146	RES FIX MFILM SFR16 A 1K2 PM5
3863	4806 116 57385	RES FIX MFILM SFR16 A 100R PM5
3864	4806 110 67144	RES FIX MFILM SFR16 A 10K PM5
3870	4806 116 57497	RES 4R7 NFR25 PM5 MET FILM
3871	4806 116 57155	RES FIX MFILM SFR16 A 470R PM5
3872	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3873	4806 116 57465	RES FIX MFILM SFR16 A 330R PM5
3875	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3876	4806 116 57465	RES FIX MFILM SFR16 A 330R PM5
3877	4806 110 67139	RES FIX MFILM SFR16 A 1K PM5
3878	4806 116 57465	RES FIX MFILM SFR16 A 330R PM5
3879	4806 116 57465	RES FIX MFILM SFR16 A 330R PM5
3881	4806 116 57385	RES FIX MFILM SFR16 A 100R PM5
3882	4806 116 57174	RES FIX MFILM SFR16 A 47R PM5
3883	4806 116 57226	RES FIX MFILM SFR16 A 1M PM5

ITEM	CÓDIGO	DESCRICAO
3884	4806 116 57134	RES FIX MFILM SFR16 A 39K PM5
3886	4806 116 57226	RES FIX MFILM SFR16 A 1M PM5
3888	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3889	4806 116 57143	RES FIX MFILM SFR16 A 100K PM5
3891	4806 110 67140	RES FIX MFILM SFR16 A 47K PM5
3894	4806.110 67140	RES FIX MFILM SFR16 A 47K PM5
5001	2422 540 98409	RESSONADOR CER 4MHZ CSTS*MG03
5001	2499 297 42701	A.FALANTE SQ102 4R 4W FULR
5002	2499 297 42701	A.FALANTE SQ102 4R 4W FULR
5102	3104 218 20382	MW AERIAL COIL
5109	2422 549 41267	FILTRO CER 10MHZ7
5110	2422 549 41267	FILTRO CER 10MHZ7
5111	3140 118 20570	BOBINA AM/FI A7MCS-10855 N
5112	3140 118 20590	BOBINA AM/FI 7003AC-A0105EK
5114	3140 118 20590	BOBINA AM/FI 7003AC-A0105EK
5119	2422 549 43462	BOB VAR 7MM 7KM 2U4 10M7
5121	2422 543 00757	CRISTAL 75KHZ 12P5
5121	2422 543 00698	RES XTL 75KHZ 12P5 KF-38 B
5123	2422 549 43481	BOBINA AJUST 7MM 7P 110U PM6 B
5130	2422 549 43772	BOBINA AJUST 7MM MD7B 1.5 TURN
5131	2422 549 43772	BOBINA AJUST 7MM MD7B 1.5 TURN
5310	4806 157 57222	BOB FIX STD LAL02 A 2U2 PM5
5401	2422 535 94306	BOB FIX STD LAL02 A 100U PM5
5402	4806 157 57222	BOB FIX STD LAL02 A 2U2 PM5
5403	2422 540 98201	RES CER 4MHZ19 CST4.19MGW
5701	2422 549 43582	BOB VAR 7MM 7PA HOR 100KHZ
5801	4806 157 67031	BOBINA 100MHZ 100R
5802	4806 157 67031	BOBINA 100MHZ 100R
5803	4806 242 77095	RESSONADOR CER 8MHZ467
5804	4806 157 67031	BOBINA 100MHZ 100R
5805	4806 157 67031	BOBINA 100MHZ 100R
5806	4806 157 67031	BOBINA 100MHZ 100R
5807	4806 157 67031	BOBINA 100MHZ 100R
6001	4806 130 37609	LED IV LTE-3271AL-DA (LITO)
6103	4806 130 37078	1N4148 DIODO
6105	4822 130 83075	HN1V02H DIODO
6107	4806 130 37534	BZX79-C11 DIODO
6130	4822 130 82833	1SV228 DIODO
6131	9322 028 72685	1SV228 DIODO
6300	5322 130 80686	1N5392 DIODO
6301	9322 005 16683	1N5392 DIODO
6302	9322 005 16683	1N5392 DIODO
6303	9322 005 16683	1N5392 DIODO
6306	9338 870 80673	DIODO REG BZX55-F3V3 A
6310	4806 130 37534	BZX79-C11 DIODO
6520	9337 126 20673	DIODO REG ZENER BZX55-B4V3
6800	9338 870 80673	DIODO REG BZX55-F3V3 A
7001	9352 315 50112	CI DIG MUP PCA8521FT/030
7002	4822 130 41246	TRANS BIP SINAL BC327-25
7101	4822 209 90924	CI SM ANA TUN TEA5757H/V1
7102	4806 130 47337	2SA838B TRANSISTOR
7111	4806 130 47338	BC847C TRANSISTOR
7210	4806 130 47498	TRANS BIP SINAL BC557B
7211	4806 130 47333	TRANS BIP SINAL BC327-25
7212	4806 130 47228	TRANS BIP SINAL BC337-25
7214	4806 130 47037	TRANS BIP SINAL BC547B
7215	4806 130 47228	TRANS BIP SINAL BC337-25
7216	4806 130 47333	TRANS BIP SINAL BC327-25
7217	4806 130 47498	TRANS BIP SINAL BC557B
7218	4806 130 47498	TRANS BIP SINAL BC557B
7219	9331 976 30126	TRANS BIP SINAL BC547B
7220	9331 976 30126	TRANS BIP SINAL BC547B
7221	9331 976 30126	TRANS BIP SINAL BC547B
7222	9331 976 30126	TRANS BIP SINAL BC547B
7223	9331 976 30126	TRANS BIP SINAL BC547B

ITEM	CÓDIGO	DESCRICAO
7224	4806 130 47228	TRANS BIP SINAL BC337-25
7400	3103 308 83950	IC U PROC TMP87CM20AF.3
7410	9331 976 30126	TRANS BIP SINAL BC547B
7411	9331 976 30126	TRANS BIP SINAL BC547B
7412	9331 976 30126	TRANS BIP SINAL BC547B
7413	9331 976 30126	TRANS BIP SINAL BC547B
7414	9331 976 30126	TRANS BIP SINAL BC547B
7415	9331 976 30126	TRANS BIP SINAL BC547B
7423	9338 870 80673	DIODO REG BZX55-F3V3 A
7424	9322 053 14676	LTL-16KGE VS LED VERDE
7425	9322 053 14676	LTL-16KGE VS LED VERDE
7426	9322 053 14676	LTL-16KGE VS LED VERDE
7427	9322 053 14676	LTL-16KGE VS LED VERDE
7428	9322 053 14676	LTL-16KGE VS LED VERDE
7450	9322 086 98671	RECEPTOR I.VERM GR1U28XP
7460	9322 053 14682	LED VS LTL-16KGE GN (LI
7461	9322 053 14682	LED VS LTL-16KGE GN (LI
7462	9322 053 14682	LED VS LTL-16KGE GN (LI
7463	9322 053 14682	LED VS LTL-16KGE GN (LI
7480	9322 096 56668	CI ST24C01M6 (ST00) R
7481	4806 130 37049	BZX79-C5V6 DIODO
7512	9331 976 30126	TRANS BIP SINAL BC547B
7513	4806 130 47498	TRANS BIP SINAL BC557B
7514	4806 130 47498	TRANS BIP SINAL BC557B
7515	4806 130 47498	TRANS BIP SINAL BC557B
7516	4806 130 47498	TRANS BIP SINAL BC557B
7520	4822 209 31544	CI ANAL AMPLIF TA8227P
7521	5322 209 11102	HEF4052BT CIRC.INTEGRADO
7522	4806 209 87781	LM324DT CIRC.INTEGRADO
7524	4822 209 14831	IC TDA7319 (ST00)
7525	4806 130 47234	BC337-40 TRANSISTOR
7526	4806 130 47234	BC337-40 TRANSISTOR
7701	9331 976 30126	TRANS BIP SINAL BC547B
7702	4806 130 47228	TRANS BIP SINAL BC337-25
7703	4806 130 47228	TRANS BIP SINAL BC337-25
7704	4806 130 47228	TRANS BIP SINAL BC337-25
7705	4806 209 87683	CI SM ANA AMP AN7318S
7706	4806 130 97031	TRANS SINAL BIP BC547C (PHSE)
7707	4806 130 97031	TRANS SINAL BIP BC547C (PHSE)
7801	4806 209 87228	CI HEF4066BP (PHSE) L
7801	3103 308 83750	CI DIG MICROPROC SM M65824/ES5
7802	4806 209 87782	CI SM A/D DAC TDA1311A/N2
7802	9351 725 10112	CI ANAL CHAVE TDA1308/N1
7803	9322 097 25682	CI ANAL COMB SM M62475FP
7804	9336 500 90126	TRANSISTOR BIP SINAL BC557C
7805	9352 628 49112	CI TDA7073A/N4
7806	9352 628 49112	CI TDA7073A/N4
7807	4806 130 97031	TRANS SINAL BIP BC547C (PHSE)
8000	3103 308 91650	CJCB SUMITOMO FFC/65/15P
8403	3139 110 24590	CONNECTOR 2W 180MM F
8404	3139 110 25250	CONNECTOR 10W 180MM
8405	3139 110 25410	CONNECTOR 4W 220MM F
8500	3139 110 24440	CONECTOR 3W 400MM F
8502	3139 111 91381	CABO FLAT 2X2000MM PR
8503	3139 111 91381	CABO FLAT 2X2000MM PR
8704	1922 221 37994	CABO FLAT PRETO 110-2
8706	1922 221 37994	CABO FLAT PRETO 110-2