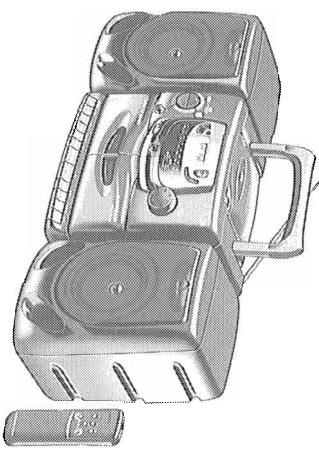


# CD Stereo Radio Recorder AZ22605/01/05/10/14/17

Service Manual 1856  
(Includes Supplement 1)

## Service Service Service

Manual #1856  
AZ26051701



# Service Manual

COMPACT  
DISC  
DIGITAL AUDIO

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RCD1,3D	

CLASS 1  
LASER PRODUCT

SEE THE BACK

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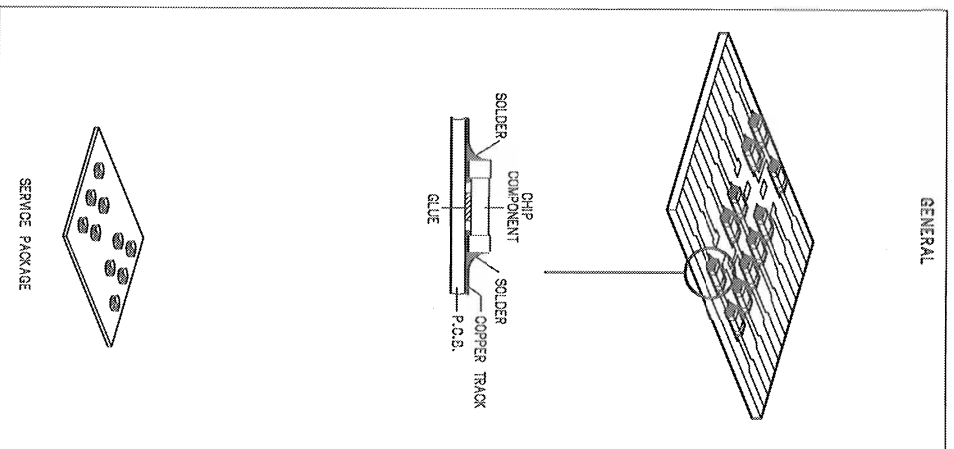


PCS 86 946

# PHILIPS

# HANDLING CHIP COMPONENTS

## GENERAL



### ⚠️ WARNING

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

### ⚠️ ATTENTION

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

⚠️ Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

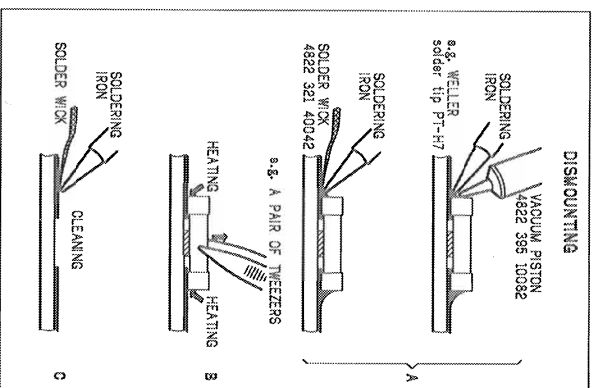
⚠️ Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerätes darf nicht verändert werden. Für Reparaturen sind Originalersatzteile zu verwenden.

### ⚠️ Varning !

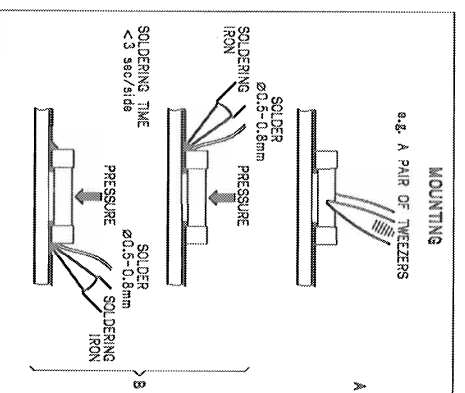
Östynlig laserstrålning när apparaten är öppnad och spärrar är urkopplade. Beträkta ej strålen.

⚠️ Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne.

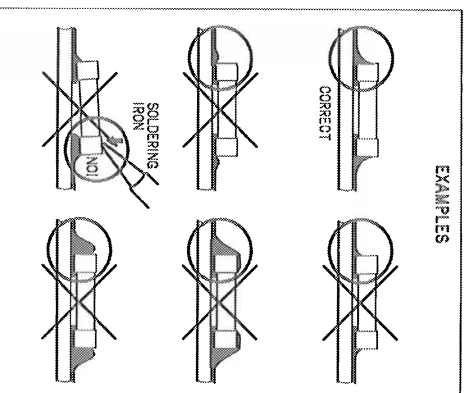
## DISMOUNTING



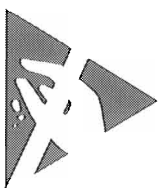
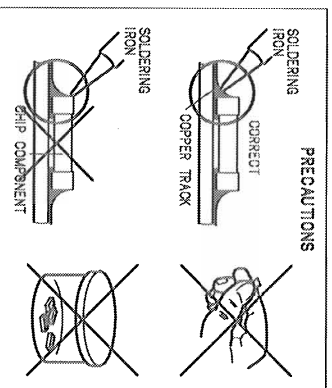
## MOUNTING



## EXAMPLES



## ESD



### ⚠️ WARNING

All IC's und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Ursprüngliche Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.  
Sorgen Sie dafür, daß sie im Reparaturfall über ein Pulsermband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.  
Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

⚠️ 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.

⚠️ 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.

### ⚠️ Advarsel !

Usynlig laserstrålning ved åbning af sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

### ⚠️ WAARSCHUWING

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

### ⚠️ AVVERTIMENTO


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

⚠️ Veiligheidsbeperkingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

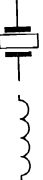



### ⚠️ Varoitus !

Avaruussäätteessä la suojajärkytysohjaimen ohjenteossa olet alttina näkyvättömälle laserstrålelle. Älä katso säteeseen !

**TUNER BOARD - /01/10/17**

				
2101	4822 122 32764	4.7nF	20%	50V
2102	4822 126 12812	47pF	5%	50V
2103	4822 124 40248	10uF	20%	63V
2104	4822 124 40248	10uF	20%	63V
2105	4822 126 12814	24pF	5%	N220 50V
2106	4822 125 50681	Polyvaricon		
2108	4822 122 32147	22pF	2%	100V N470
2109	4822 126 12809	2.2pF	5%	50V N470
2110	* 4822 126 13592	10pF	±0.5pF	N750
2110	# 4822 126 12229	8.2P	50V	N750
2112	4822 124 41397	47uF	20%	25V
2113	4822 126 13581	0.22uF	50V	
2114	4822 126 12671	330pF	10%	50V
2115	4822 124 40246	4.7uF	20%	63V
2116	* 4822 124 80141	10nF	10%	50V
2116	# 4822 121 43144	22nF	50V	
2117	4822 124 40242	1uF	20%	63V
2118	4822 124 40242	1uF	20%	63V
2119	* 4822 124 80141	10nF	10%	50V
2119	# 4822 121 43144	22nF	50V	
2120	4822 124 40242	1uF	20%	63V
2121	4822 124 40239	0.47uF	20%	63V
2122	4822 124 40239	0.47uF	20%	63V
2133	4822 126 12672	4.7nF	10%	50V
2134	# 4822 126 10777	100pF	50V	
2135	* 4822 126 10777	100pF	50V	
3101	4822 100 20167	50K	30%	0.1W
3102	4822 116 52297	68K	5%	0.5W
3103	4822 116 83863	1K	5%	0.5W
3104	4822 116 52256	2K2	5%	0.5W
3105	4822 116 83864	10K	5%	0.5W
3108	4822 116 52191	33R	5%	0.5W
3109	4822 116 52234	100K	5%	0.5W
3110	4822 116 52234	100K	5%	0.5W
3113	4822 116 52252	180K	5%	0.5W





			
5101	4822 157 70513	Coil - FM ant	
5102	4822 157 70731	Coil - AM ant	
5104	4822 156 30947	Coil - FM osc	
5105	4822 157 71145	Coil - AM osc	
5106	4822 157 70499	IFT - AM	
5107	4822 242 81154	FM cer. filter kits	
5108	4822 156 11146	IFT - AM	
6101	4822 130 30621	1N4148	
6102	4822 130 30621	1N4148	
			
7101	4822 209 32746	TEA5711T/N2	
			
			
1100	4822 277 21698	Switch - slide	
1201	4822 526 10176	Ferrite bar 5x13x55	






**- MISCELLANEOUS -**

\* For /01/10 only  
# For /17 only

Note : Only the parts mentioned in this list are normal service parts.

**TUNER BOARD - /00/05/14**

		
2101	4822 122 32764	4.7nF 20% 50V
2102	4822 126 12812	47pF 5% 50V
2103	4822 124 40248	10uF 20% 63V
2104	4822 124 40248	10uF 20% 63V
2105	* 4822 126 12828	24pF 5% 50V
2105	# 4822 126 12283	8.2pF 5% N220
2106	* 4822 125 50681	Polyvaricon
2106	# 4822 125 50648	Polyvaricon
2107	# 4822 126 12827	390pF 5% N1500
2108	* 4822 122 32147	22pF 2% 100V N470
2108	# 4822 126 12284	5.6pF ±0.5p N1500
2109	4822 126 12809	2.2pF 5% 50V N470
2110	4822 126 12284	5.6pF ±0.5pF N1500
2112	4822 124 41397	47uF 20% 25V
2113	4822 126 13581	0.22uF 50V
2114	4822 126 12671	330pF 10% 50V
2115	4822 124 40246	4.7uF 20% 63V
2116	4822 124 80141	10nF 10% 50V
2117	4822 124 40242	1uF 20% 63V
2118	4822 124 40242	1uF 20% 63V
2119	4822 124 80141	10nF 10% 50V
2120	4822 124 40242	1uF 20% 63V
2121	4822 124 40239	0.47uF 20% 63V
2122	4822 124 40239	0.47uF 20% 63V
2125	4822 126 12826	120pF 50% 50V N750
2126	4822 125 50045	1p8-22p 250V
2131	4822 126 12824	18pF 50% 50V NPO
2150	4822 125 50045	1p8-22p 250V
		
3101	4822 100 20167	Trim. 50K 30% 0.1W
3102	4822 116 52297	68K 5% 0.5W
3103	4822 116 83863	1K 5% 0.5W
3104	4822 116 52256	2K2 5% 0.5W
3105	4822 116 83864	10K 5% 0.5W
3108	4822 116 52191	33R 5% 0.5W
3109	4822 116 52234	100K 5% 0.5W
3110	4822 116 52234	100K 5% 0.5W
3113	4822 116 52252	180K 5% 0.5W

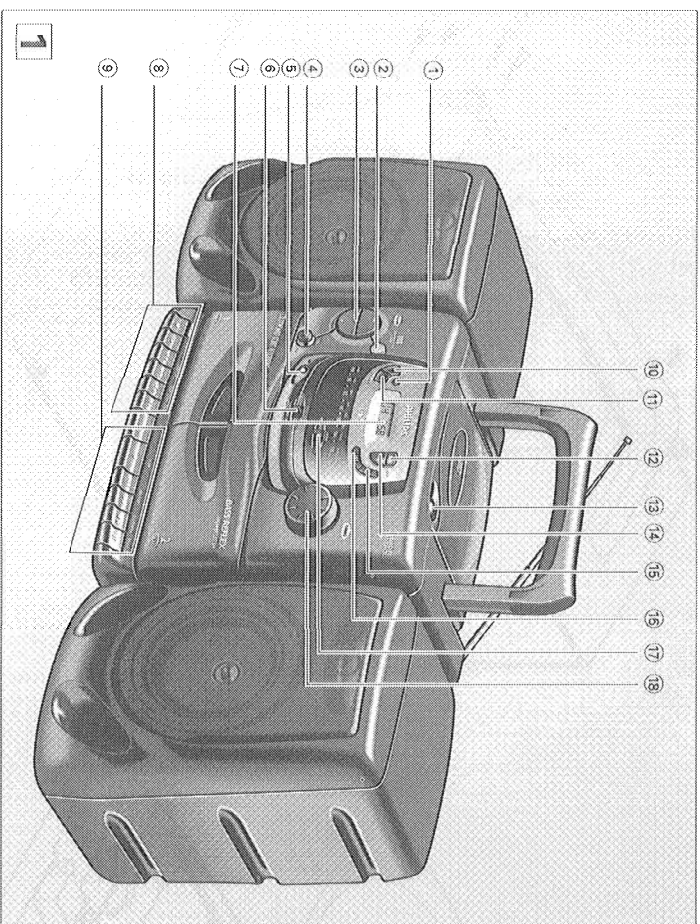
		
5101	* 4822 157 70513	Coil - FM ant
5101	# 4822 157 70762	Coil-Chole 4.5T D5
5102	4822 158 60627	Coil - MW/LW ant. assy
5104	* 4822 156 30947	Coil - FM osc
5104	# 4822 157 70033	Coil - FM osc
5105	4822 157 71145	Coil - MW osc
5106	4822 157 70499	I FT - AM
5107	4822 242 81154	FM cer. filter kits
5108	4822 156 11146	I FT - AM
5109	4822 157 71144	Coil - LW osc
		
6101	4822 130 30621	1N4148
6102	4822 130 30621	1N4148
7101	4822 209 32746	TEA5711TN2
		
- MISCELLANEOUS -		
1100	4822 277 30933	Switch - slide

\* For /00/05 only  
# For /14 only

Note : Only the parts mentioned in this list are normal service parts.



## CONNECTIONS AND CONTROLS



- TOP and FRONT PANEL**
- 1 IR SENSOR - Infrared remote sensor for remote control reception.
  - 2 **DBB Dynamic Bass Boost** - To increase the bass level.
  - 3 **VOLUME** ▲ ▼ - To adjust the volume level.
  - 4 **ZONE CONTROL** - To adjust the emphasis on high or low tones.
  - 5 3.5 mm headphone socket.
  - 6 **SOURCE SELECTOR** - To select the source of sound: CD-TUNER-TAPE/OFF and to switch the POWER ON/OFF.
  - 7 **DISPLAY**
- CASSETTE RECORDER**
- 8 **DECK 1**
  - RECORD** ● - To start recording.
  - PLAY** ▶ - To start playback.
  - ◀◀ - To fast rewind the tape.
  - ▶▶ - To fast forward the tape.
  - STOP•OPEN** ■ ▲ - To stop playback and open the cassette compartment.
  - PAUSE** ■■ - To interrupt recording or playback.
- DECK 2**
- 9 **PLAY** ▶ - To start playback.
  - ◀◀ - To fast rewind the tape.
  - ▶▶ - To fast forward the tape.
  - STOP•OPEN** ■ ▲ - To stop playback and open the cassette compartment.
  - PAUSE** ■■ - To interrupt recording or playback.

- CD PLAYER**
- 10 **MODE** - e.g. to SHUFFLE or REPEAT playback.
  - 11 **PROGRAM** - To program track numbers and to review the program.
  - 12 **STOP** ■ - To stop playback or erase a program.
  - 13 **OPEN** - To open the CD door.
  - 14 **PLAY•PAUSE** ■■ - To start or interrupt CD playback.
  - 15 **SEARCH** ▶▶ - To skip or search forwards to a passage or a track.
  - ◀◀ - To skip or search backwards to a passage or a track.
- RADIO**
- 17 **BAND** - To select the wave band (FM/MW/LW).
  - 18 **TUNING** - To tune to radio stations.
- BACK PANEL**
- 19 **SPEAKER LEVERS** - To unlock the loudspeaker boxes.
  - 20 **TELESCOPIC AERIAL** - To improve FM reception.
  - 21 **SPEAKERS** - Loudspeaker terminals.
  - 22 **AC MAINS** - Socket for mains lead.
  - 23 **BATTERY DOOR** - To open the battery compartment.
- REMOTE CONTROL**
- 1 **PI** - To start or interrupt CD play.
  - 2 ◀ or ▶ - To skip or search a passage/track.
  - 3 ■ - To stop playback or erase a program.
  - 4 **VOLUME** ▲ ▼ - To adjust volume level.

## SPECIFICATIONS

### GENERAL

Mains voltage	-/01 : 120/230V
	-/05/10 : 240V
	-/14 : 230V
	-/17 : 120V
Mains frequency	-/01 : 50/60Hz
	-/05/10/14 : 50Hz
	-/17 : 60Hz
Battery	9V (R20 x 6)
Remote Battery	3V (R6G x 2)
Power consumption	35W
Dimension (W x H x D)	560 x 187 x 215mm
Weight	4.4Kg

### AMPLIFIER

Output power	mains : 2 x 2.2 W
	battery : 2 x 2.2 W
Speaker impedance	2 x 4 ohm
Frequency response	100Hz - 8KHz (-3dB)
DBB	at 100Hz : + 8 ± 2dB

### AUDIO/CASSETTE

Tape speed	4.76cm/s ± 3%
Wow & flutter	< 0.5 WTD DIN
Fast-wind time (C60)	< 130 sec.
Frequency response	P/B : 250 - 6300Hz (± 6dB)
S/N ratio	> 40dB
Erase ratio	> 50dB (w/BPF)
Bias frequency	60 ± 10KHz

### COMPACT DISC

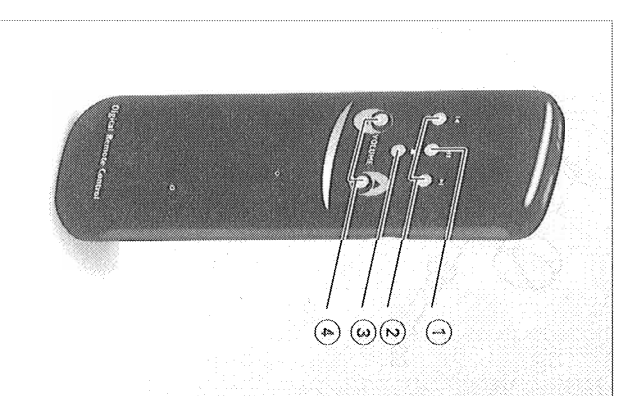
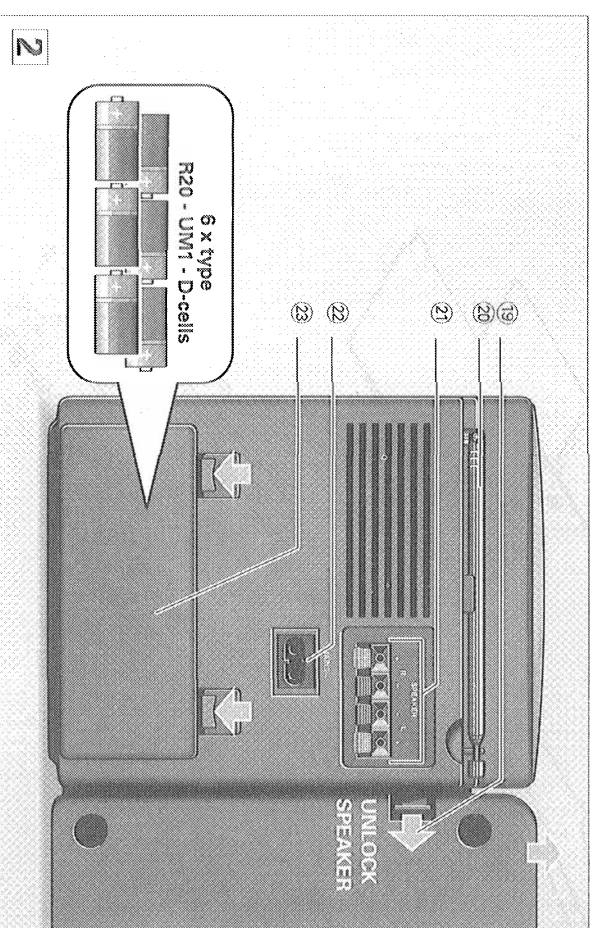
Frequency response	± 3dB : 30 - 16KHz
Signal/noise ratio	> 80dB
Distortion	at 1KHz : < 0.3%
Channel difference	at 1KHz : > 2dB
Channel crosstalk	at 1KHz : > 50dB
Laser wavelength	780 ± 20nm
Laser light power	< 0.3mW

### TUNER - FM section

Tuning range	-/14 : 87.5 - 108MHz
	64.7 - 108MHz
IF frequency	10.7MHz
Sensitivity	< 22dBf at 26dB S/N
Selectivity	> 20dB at 600KHz B.W.
IF rejection	> 50dB
Image rejection	> 20dB
AM suppression	> 30dB
Stereo separation	1KHz : > 20dB

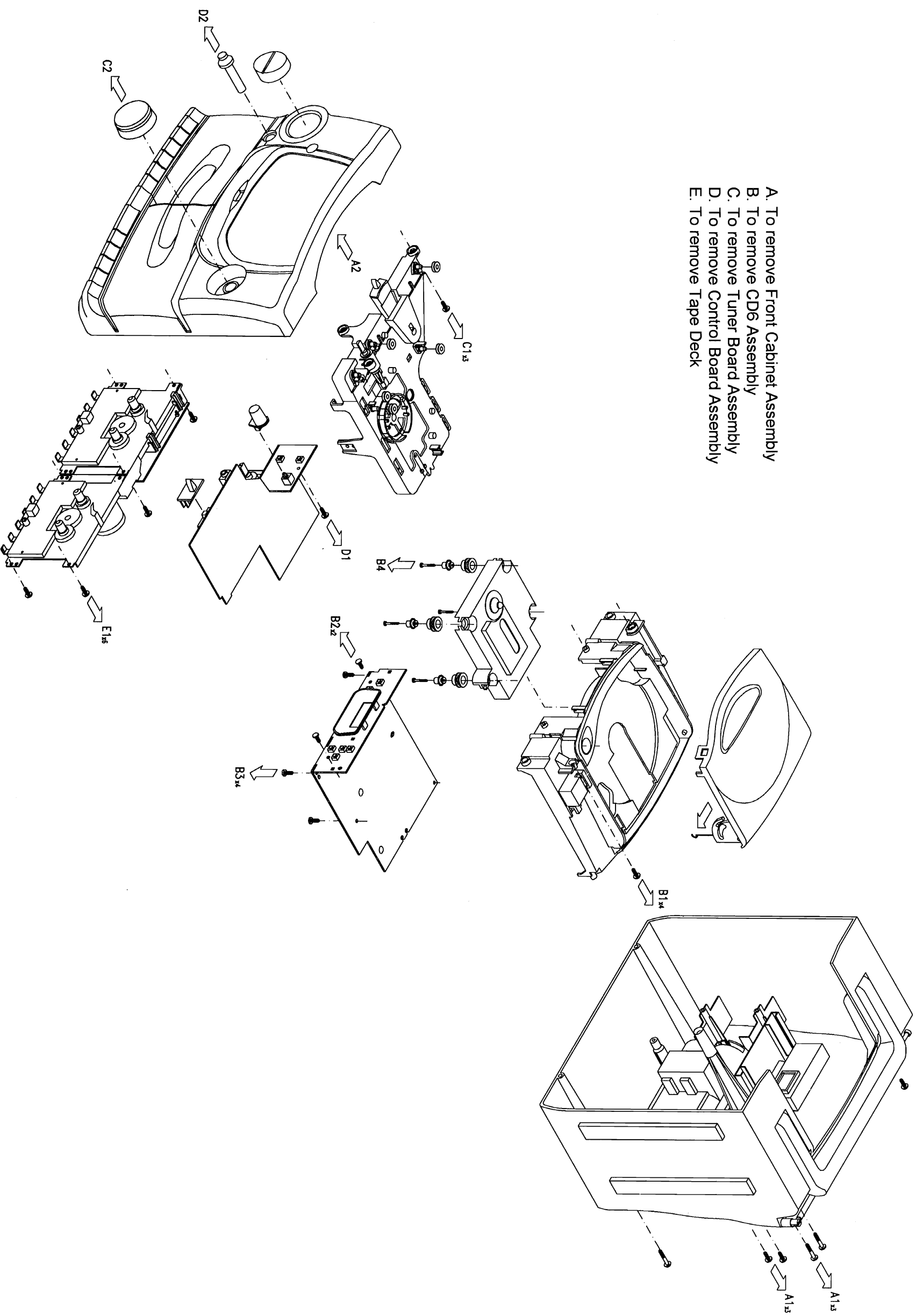
### TUNER - AM section (LW for -/00/05/14 only)

Tuning range	MW (AM) : 525 - 1606.5KHz
	-/17 : 530 - 1710KHz
	LW : 148.5 - 283.5KHz
IF frequency	468 ± 3KHz
Sensitivity	MW : < 4000µV/m 26dB S/N
	LW : < 6000µV/m
Selectivity	MW : > 16dB
	LW : > 20dB
IF rejection	MW : > 24dB
	LW : > 27dB
Image rejection	MW : > 28dB
	LW : > 30dB

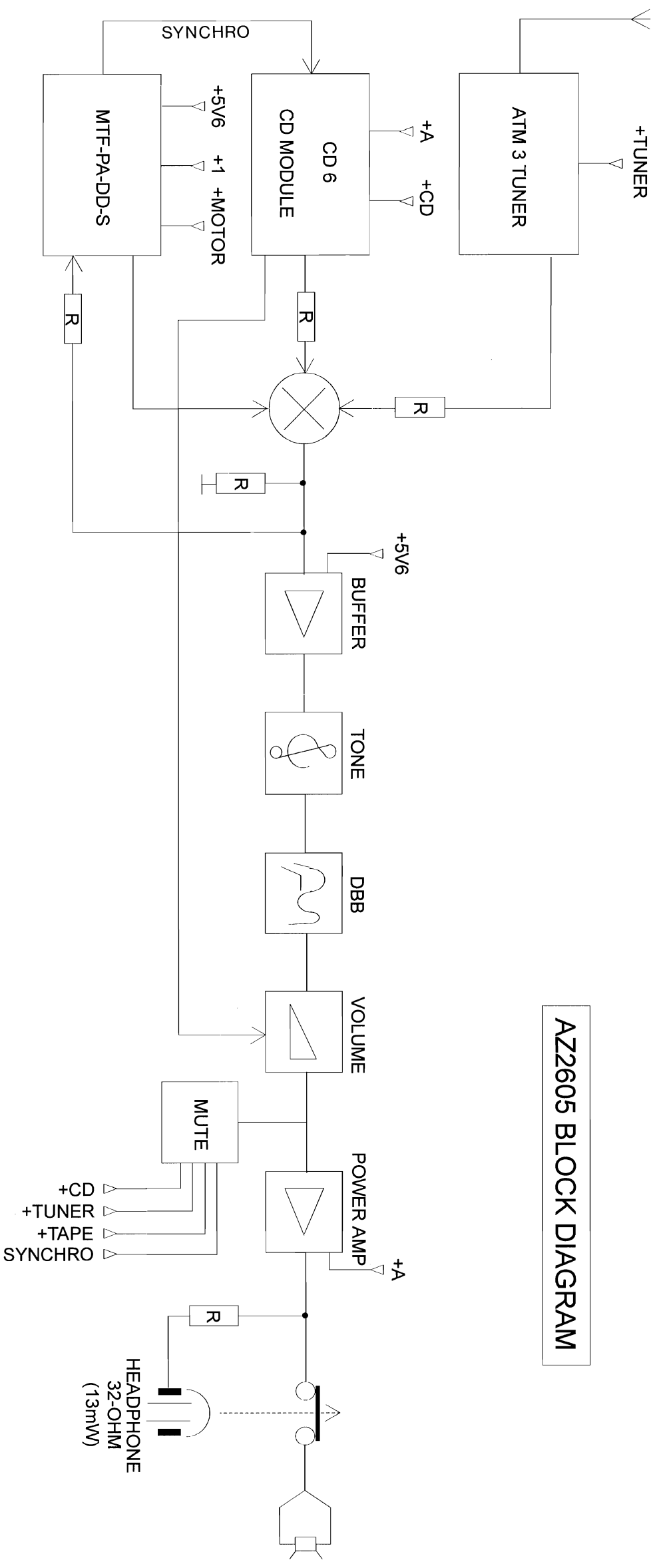


DISASSEMBLY DIAGRAM

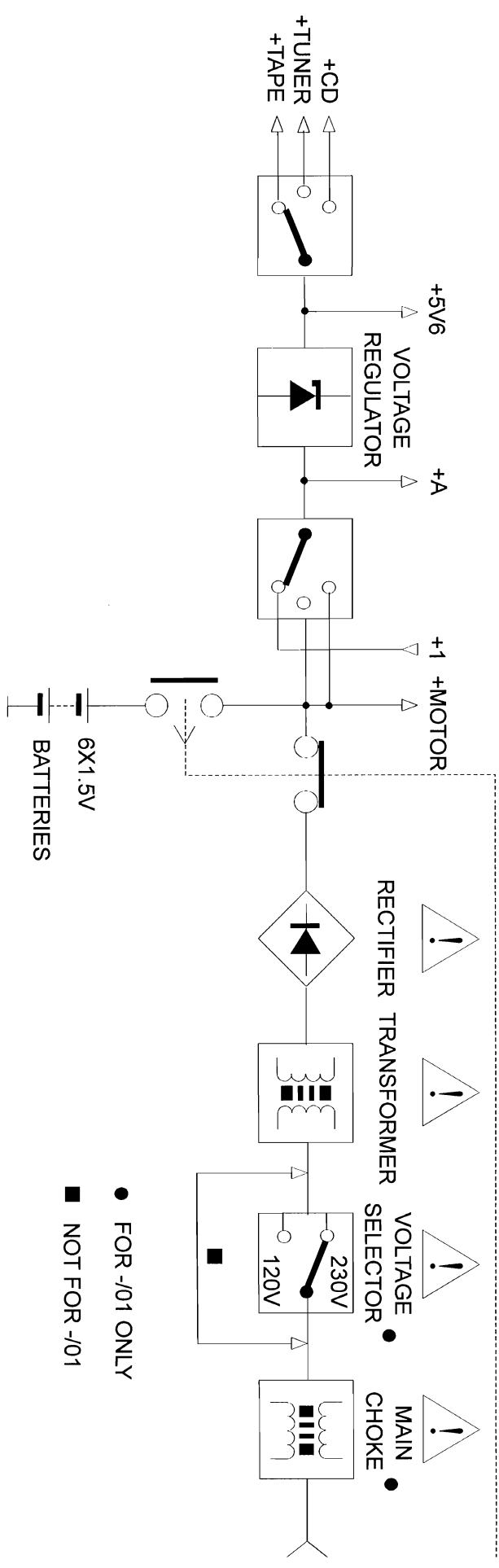
- A. To remove Front Cabinet Assembly
- B. To remove CD6 Assembly
- C. To remove Tuner Board Assembly
- D. To remove Control Board Assembly
- E. To remove Tape Deck



BLOCK DIAGRAM

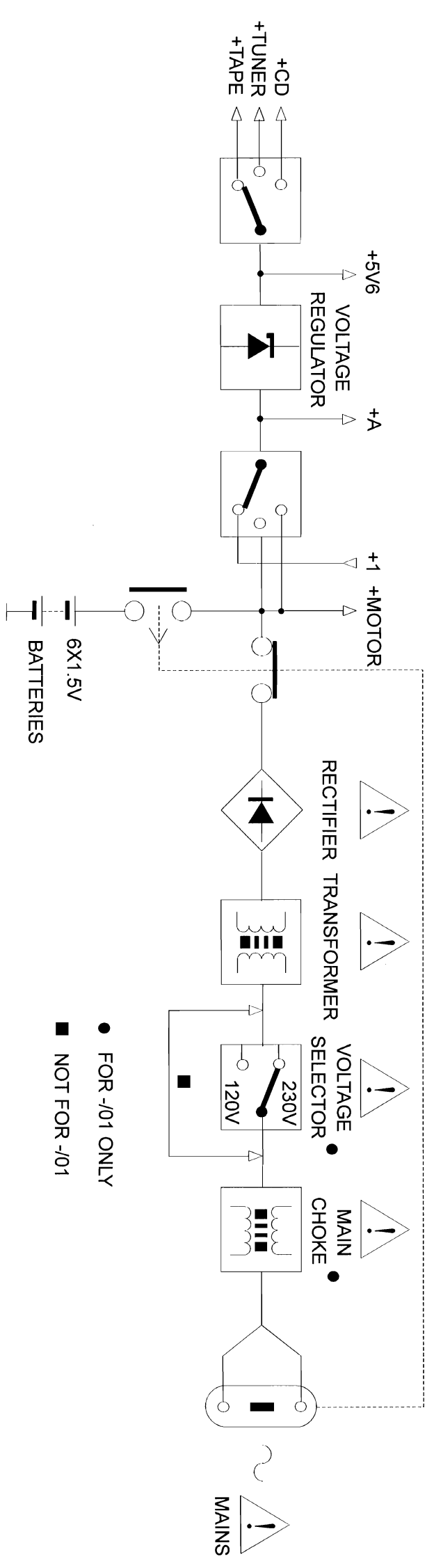
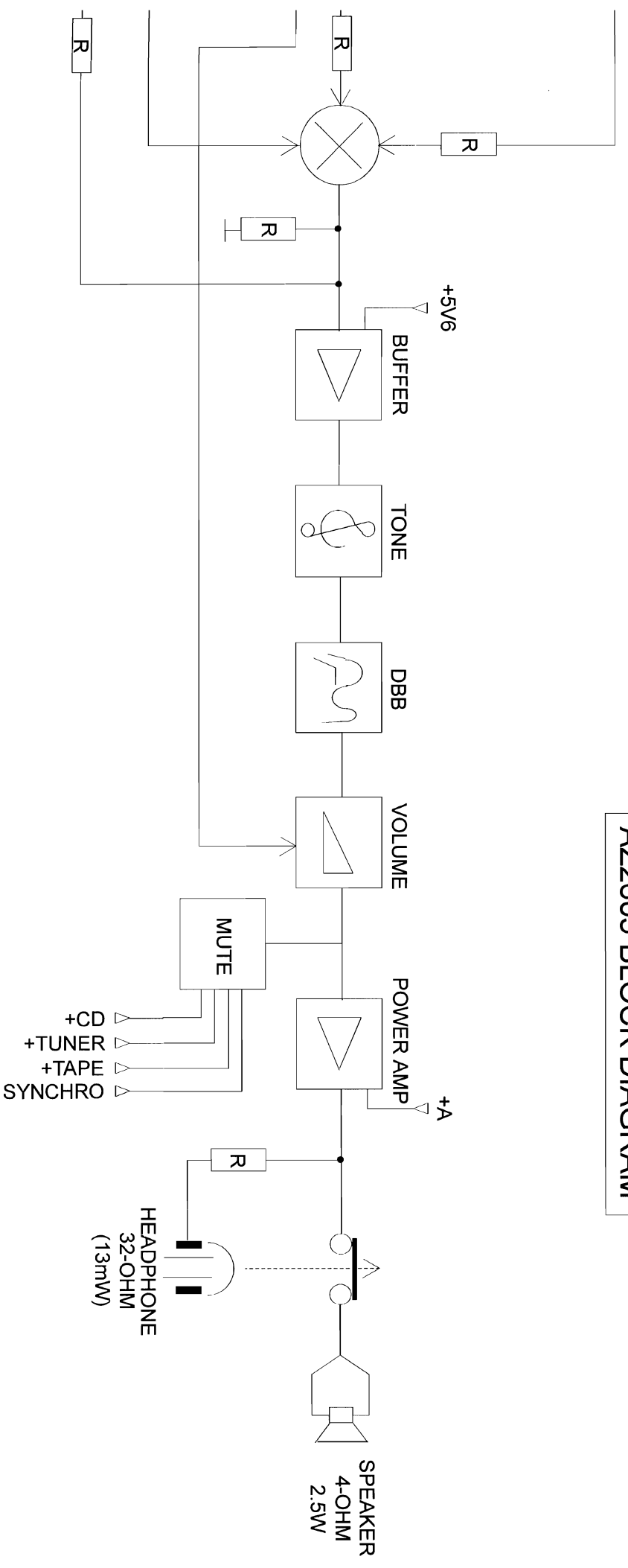


AZ2605 BLOCK DIAGRAM



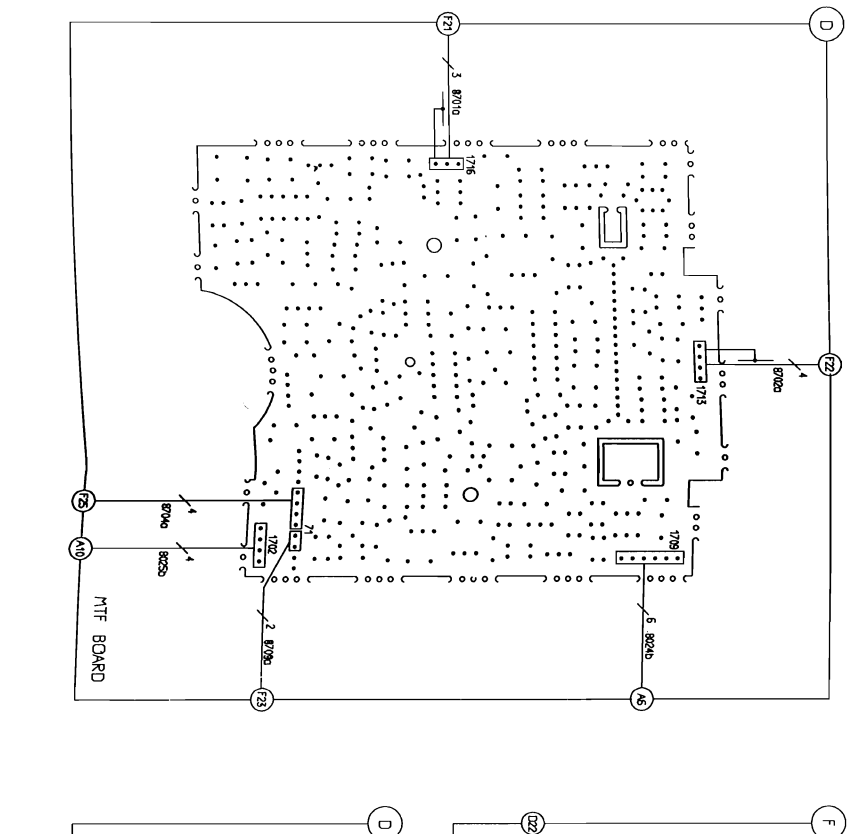
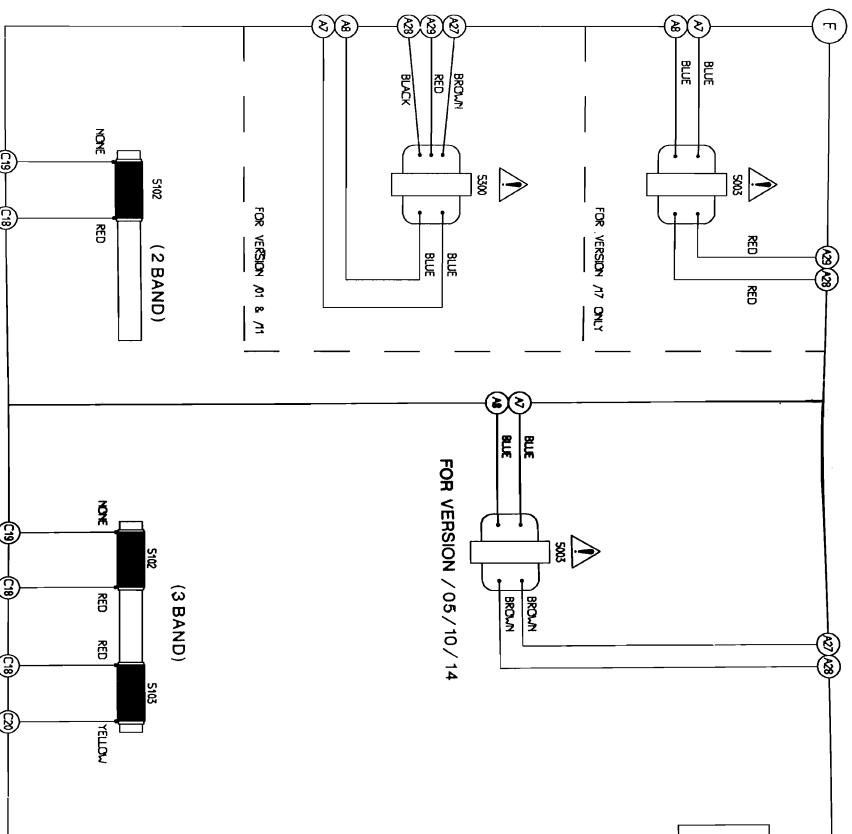
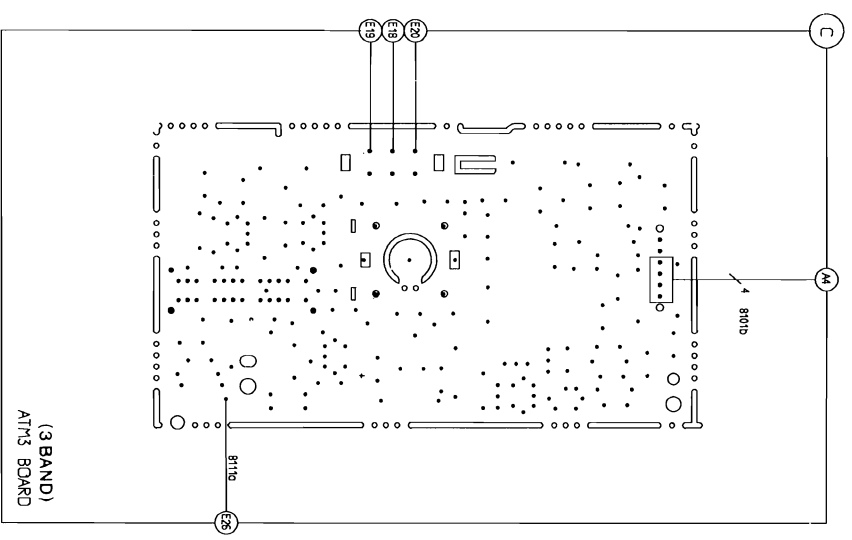
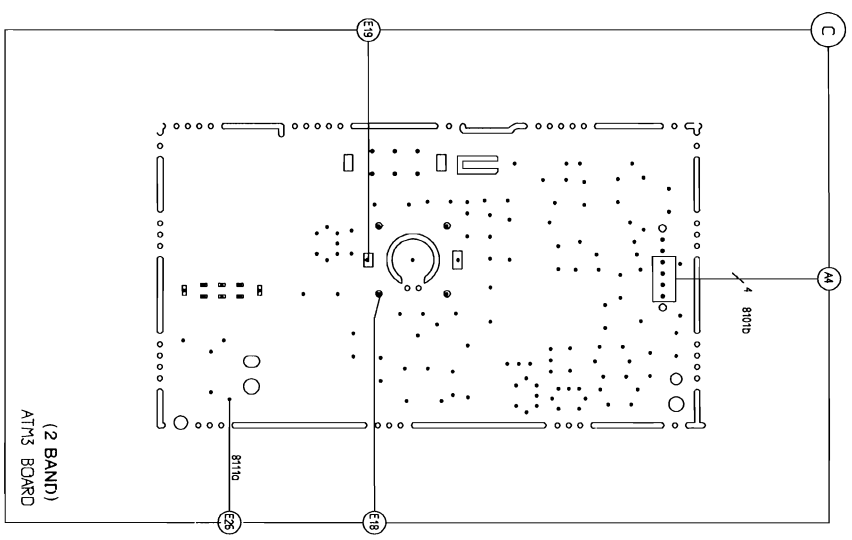
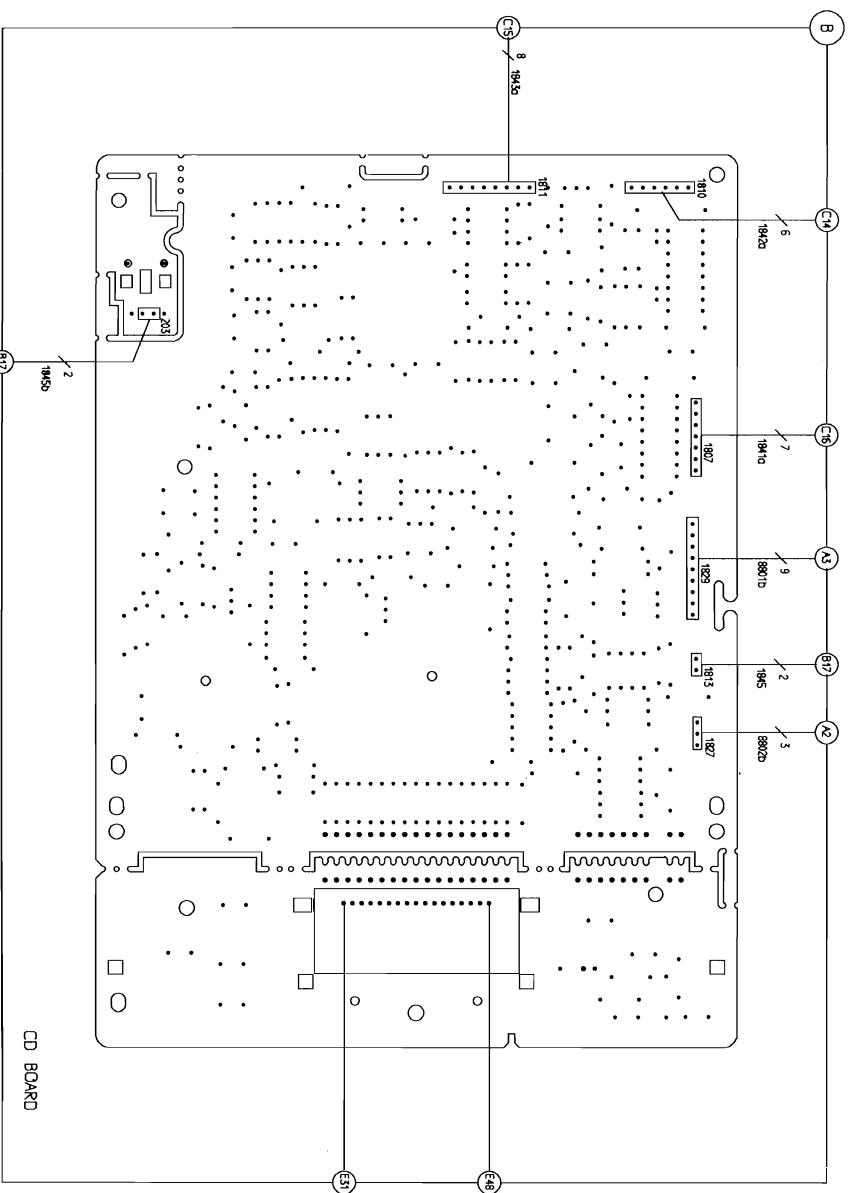
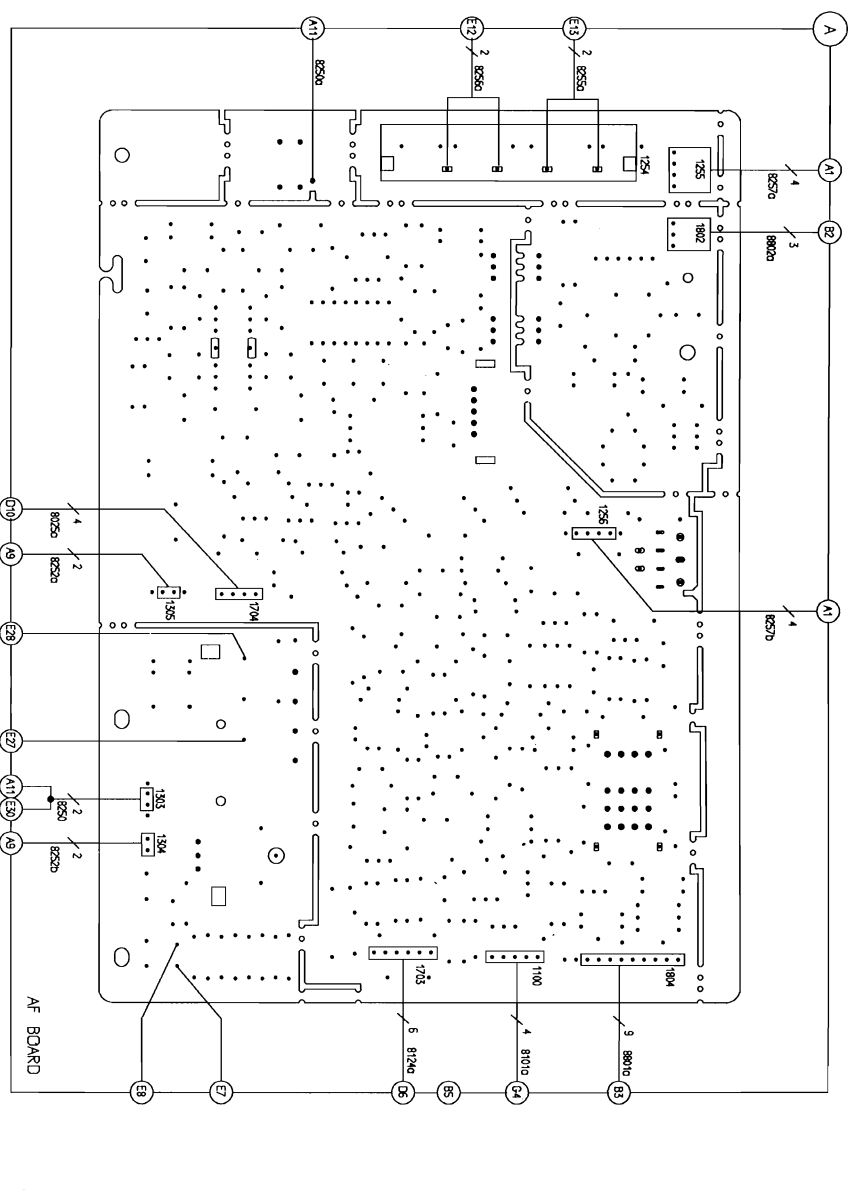
- FOR -/01 ONLY
- NOT FOR -/01

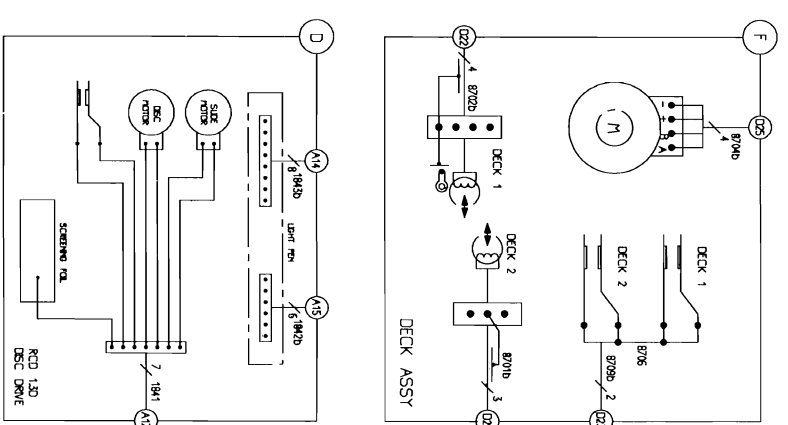
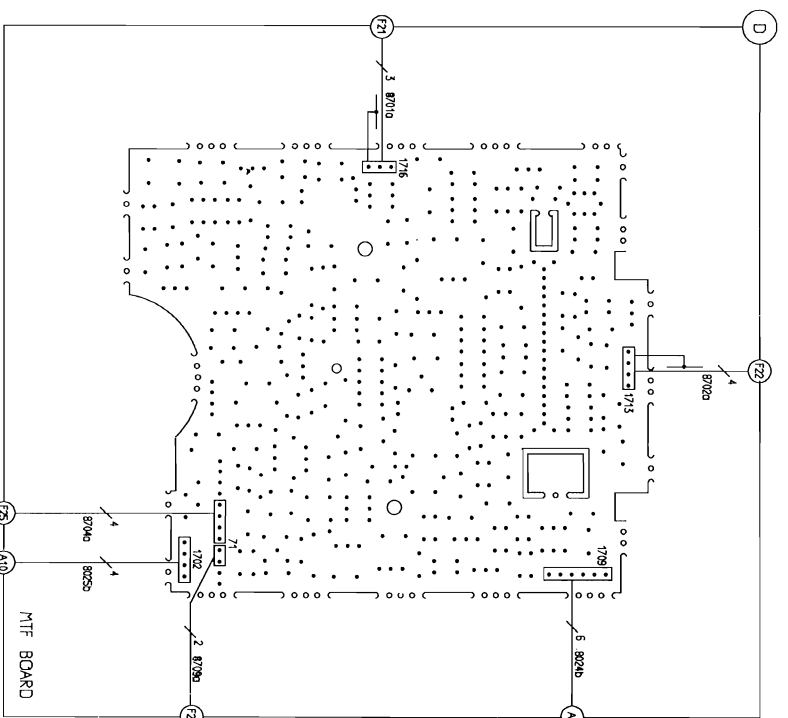
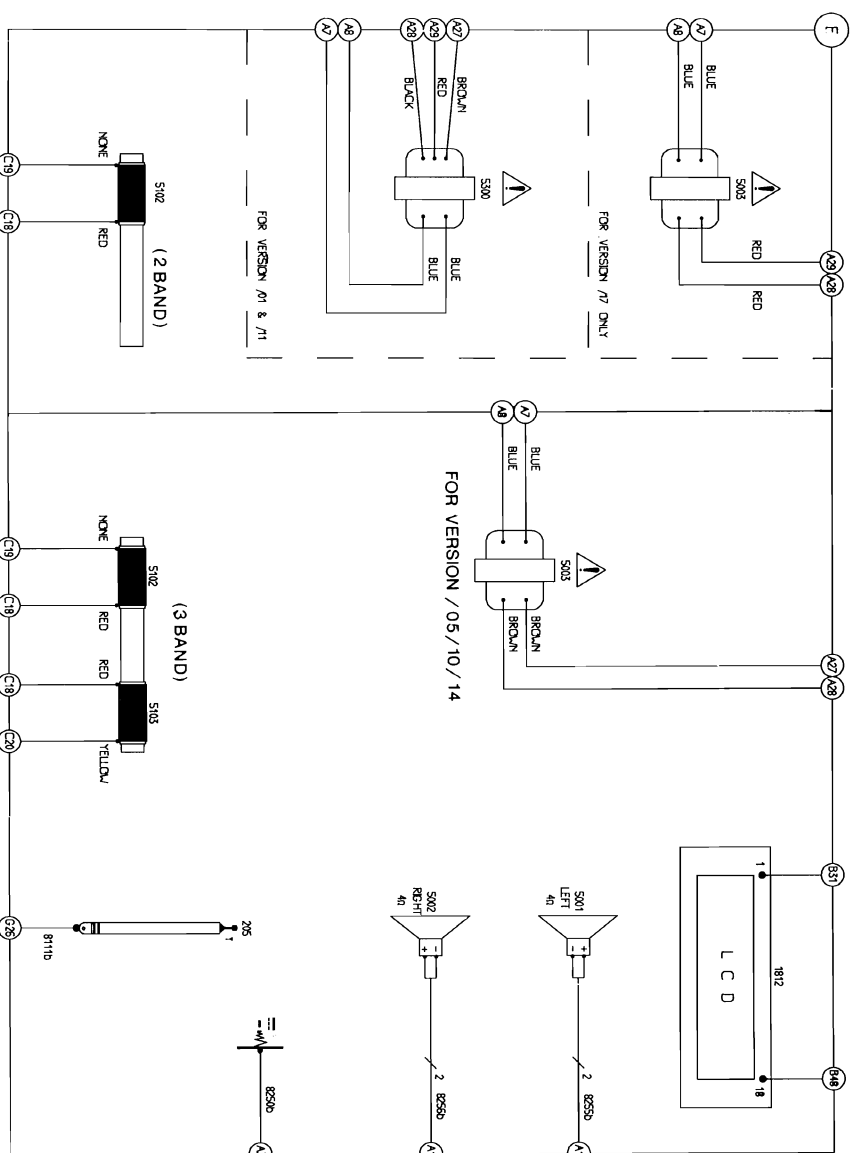
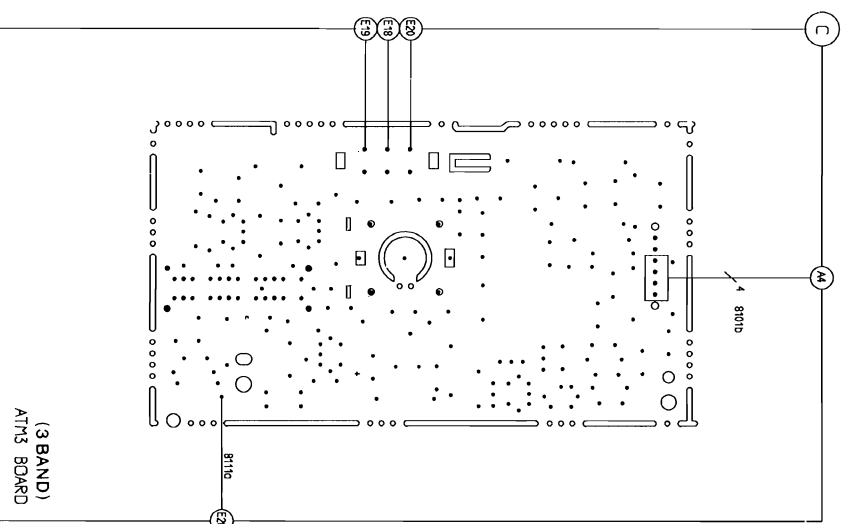
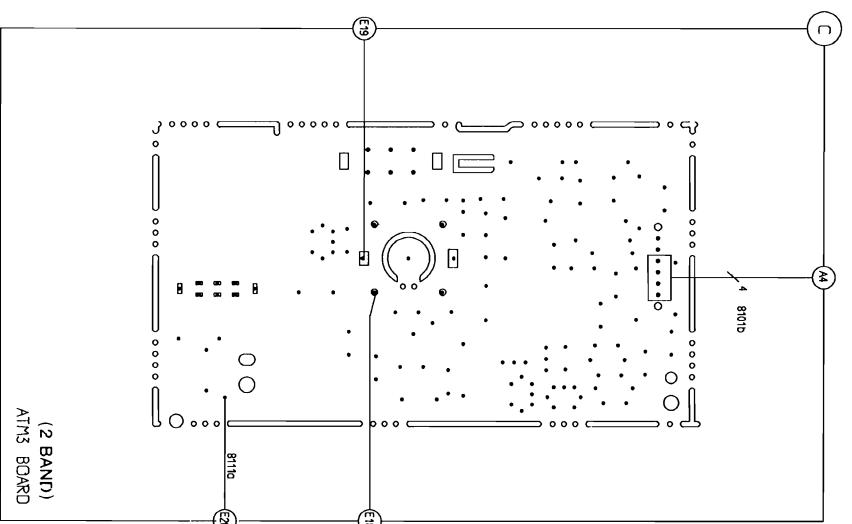
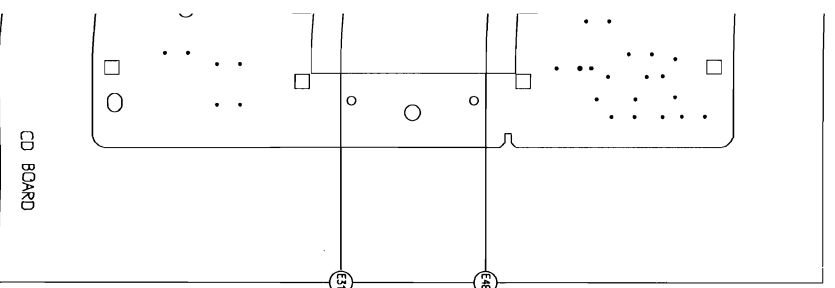
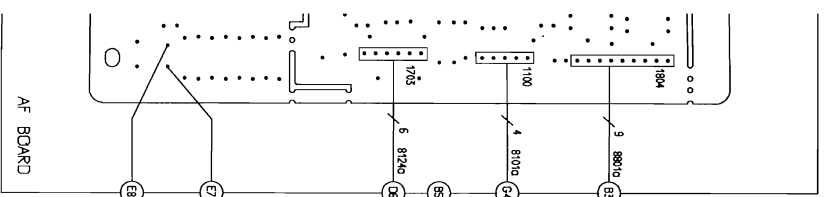
# AZ2605 BLOCK DIAGRAM



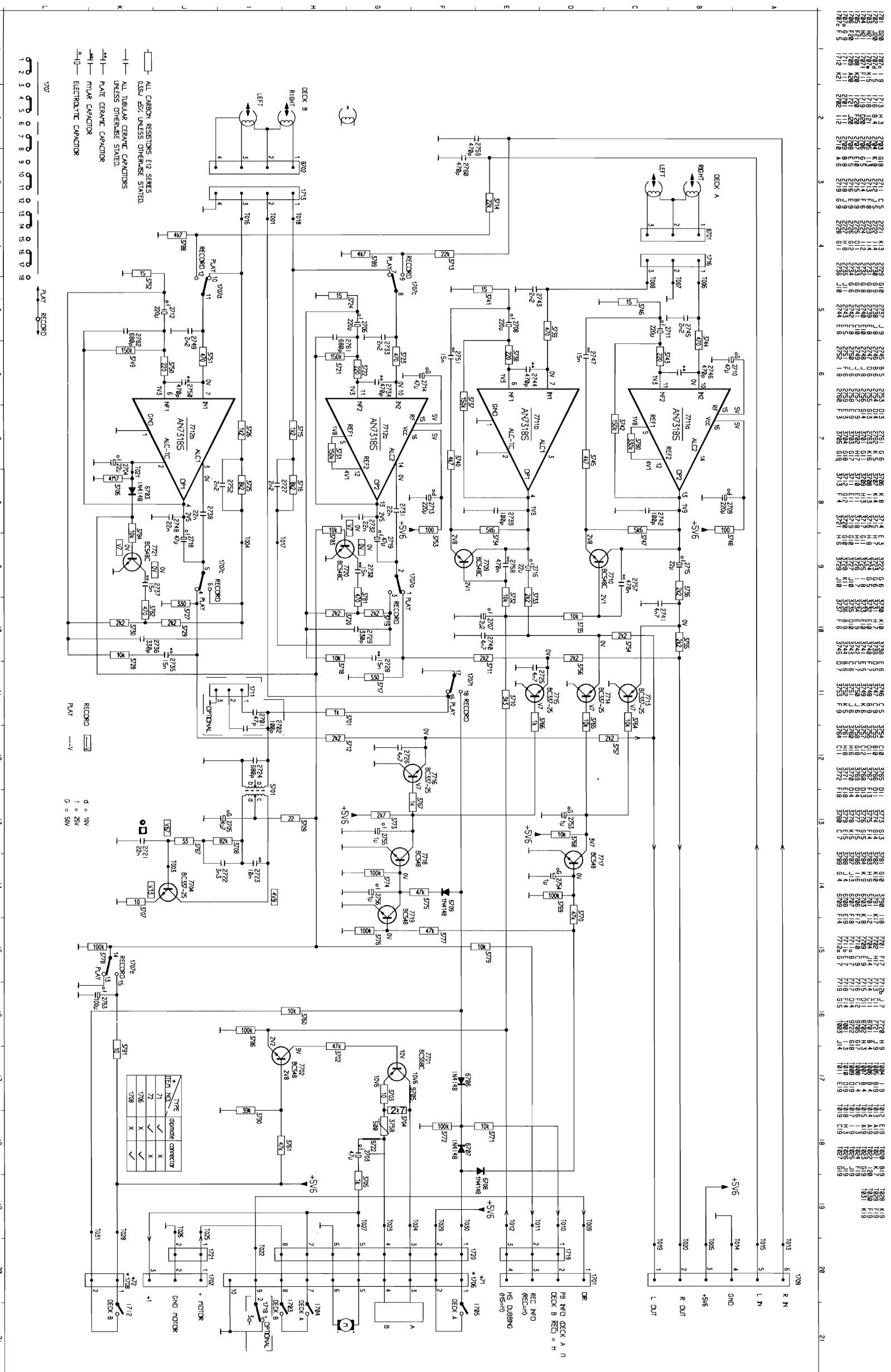
- FOR -/01 ONLY
- NOT FOR -/01

# WIRING DIAGRAM



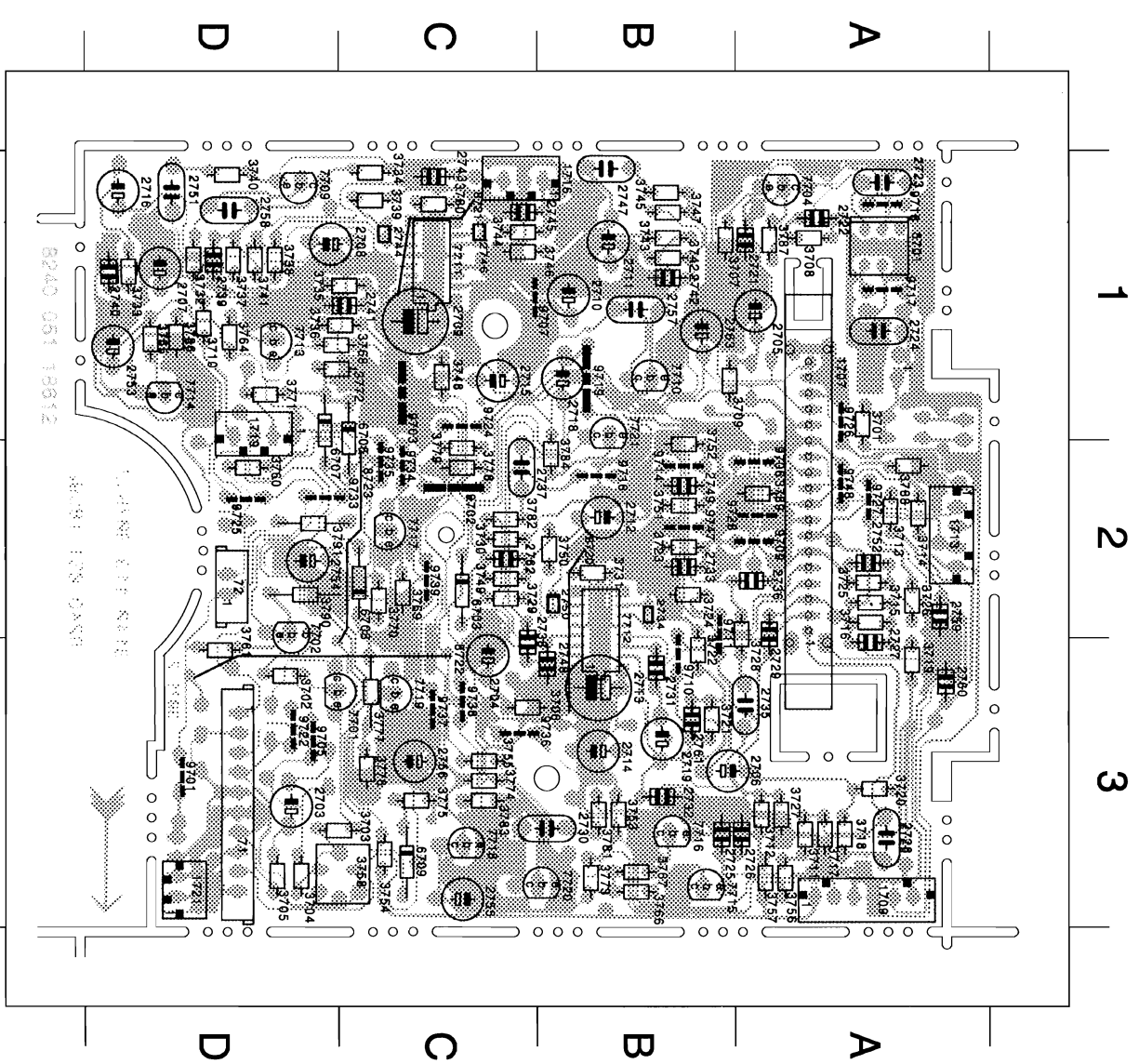
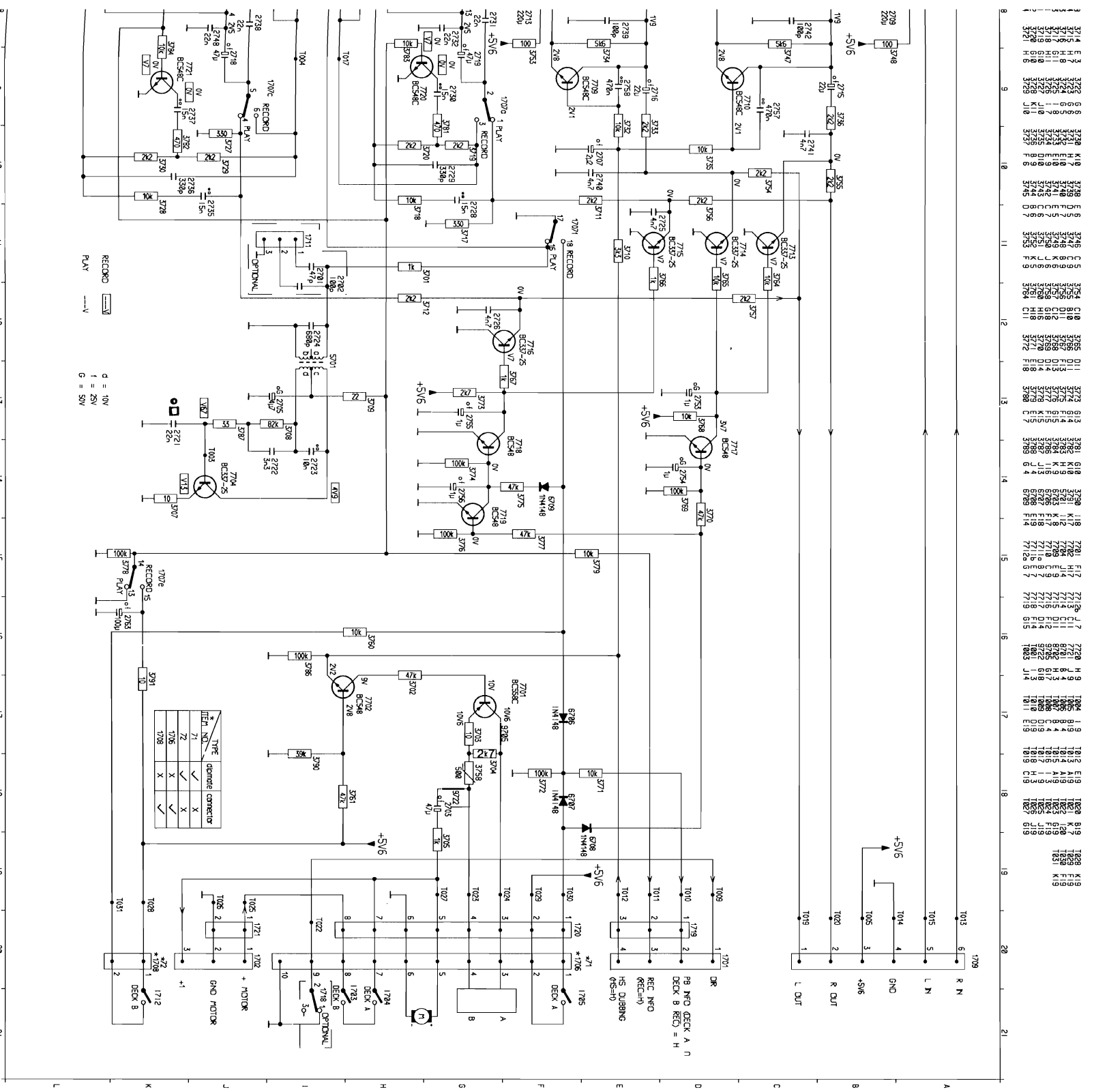


TAPE BOARD - CIRCUIT DIAGRAM



TAPE I

TAPE BOARD - LAYOUT DIAGRAM





RADIO ALIGNMENT

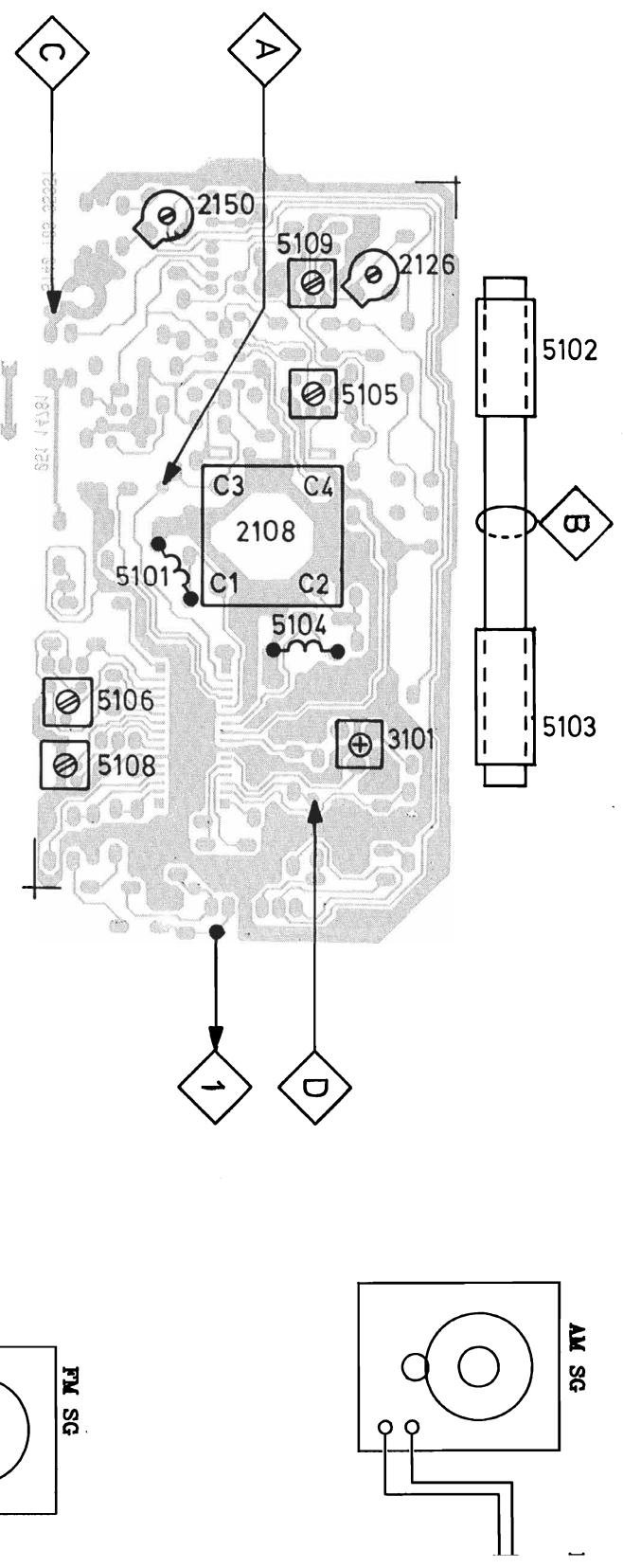
SK....	FREQUENCY	I/P	VARICON	ADJUST	O/P	SCOPE/METER
AM IF						
AM or MW	468 KHz	A	Min.	5106 5108	1	Max
AM RF						
MW *	512 KHz 1635 KHz	B	Max Min.	5105 C4	H/P Jack	Max
for -/00/01/05 (see Fig. 3)	550 KHz 1500 KHz		550 KHz 1500 KHz	L2 C3	Jack	Max
AM *	520 KHz 1730 KHz	B	Max Min.	5105 C4	H/P Jack	Max
for -/17 (see Fig. 3)	550 KHz 1500 KHz		550 KHz 1500 KHz	L2 C3	Jack	Max
LW *	147 KHz 291 KHz	B	Max Min.	5109 2126	H/P Jack	Max
for -/00/05 (see Fig. 3)	155 KHz 270 KHz		155 KHz 270 KHz	5103 2150	Jack	Max
FM IF						
FM #	10.7 MHz					Symmetrical
FM RF						
FM#	87.35 MHz 108.25 MHz	C	Max Min.	5104 C2	H/P Jack	Max
(see Fig. 4 & 5)	88 MHz 106 MHz		88 MHz 106 MHz	5101 C1	Jack	Max
FM#	64.7 MHz 108.25 MHz	C	Max Min.	5104 C2	H/P Jack	Max
for -/14 (see Fig. 4 & 5)	68 MHz 106 MHz		68 MHz 106 MHz	5101 C1	Jack	Max
STEREO DECODER						
FM#	98 MHz	C	98 MHz	3101	D	152 ± 1 KHz

\* Mod. 1 KHz 30%  
# via 10 nF + 15 E

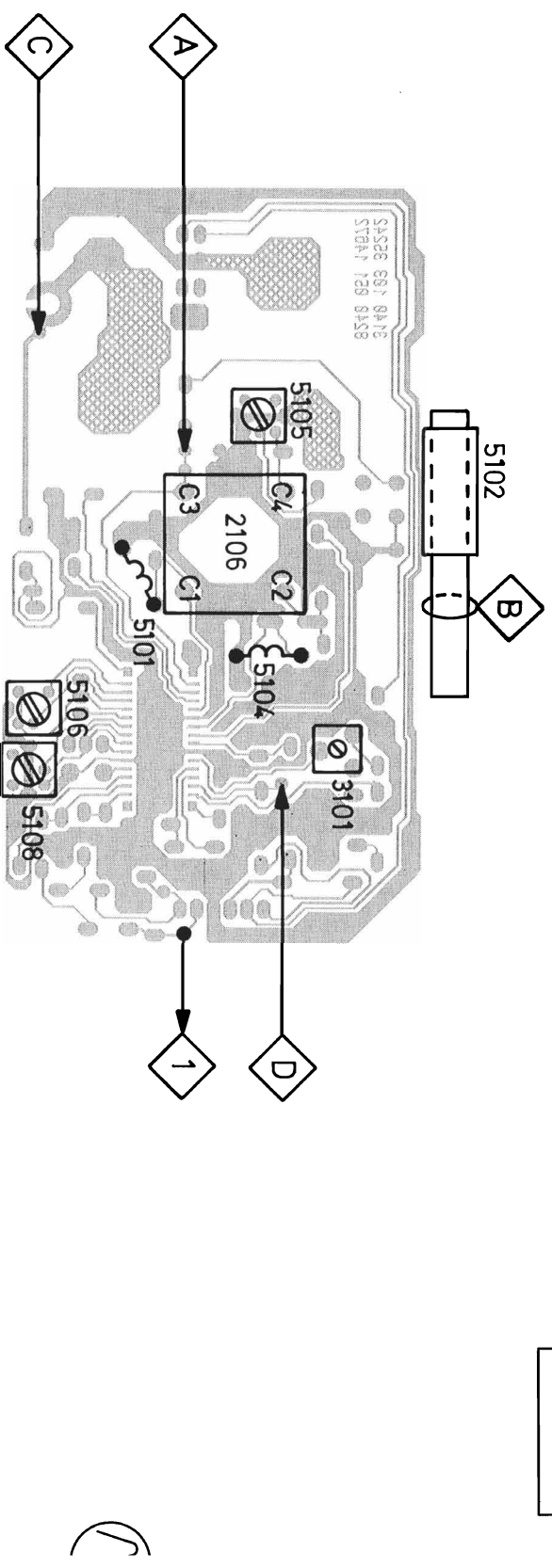
"Bei notwendigem Abgleich ist das Gerät auf die ge-  
setzlich vorgeschriebenen Eckfrequenzen abzugleichen".

Repeat

ALIGNMENT LOCATION (-/00/05)



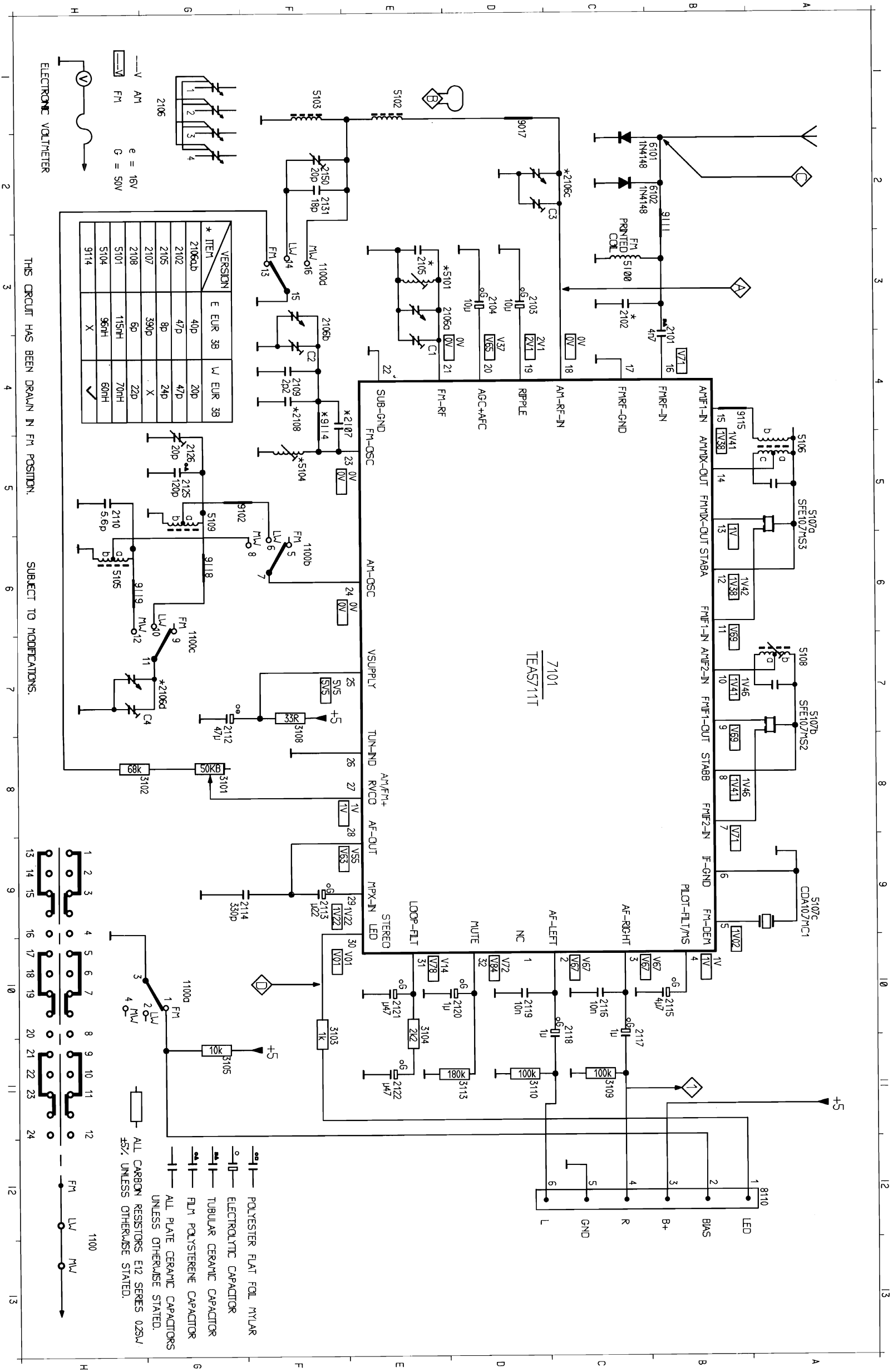
ALIGNMENT LOCATION (-/01/17)





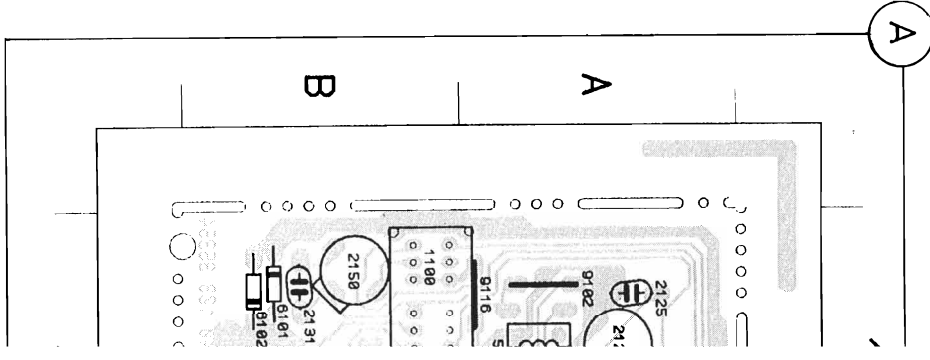
# TUNER BOARD (I00I05/14) - CIRCUIT DIAGRAM

1100a	G10	2101	B 4	2105a	E 3	2106a	E 7	2110	H 5	2115	B10	2119	D10	2125	G 5	3101	G 8	3105	F 7	3113	D11	3103	F 1	3107a	A 5	3109	G 5	8110	A12
1100b	F 9	2102	C 3	2105b	E 3	2106b	E 3	2112	G 7	2116	C10	2120	D10	2126	G 5	3102	H 8	3106	F 7	3101	C 3	3105	H 6	3107b	A 7	3108	A 9	8112	D 1
1100c	F 7	2103	D 3	2105c	E 3	2106c	E 3	2113	F 9	2117	C11	2121	E10	2127	F 2	3103	F10	3107	C11	3102	E 1	3106	H 6	3107c	A 9	7101	C 2	9111	G 6
1100d	F 3	2104	D 3	2105d	E 3	2106d	E 4	2114	G 9	2118	C10	2122	E11	2150	F 2	3104	E10	3110	D11	3102	E 1	3105	A 5	3108	A 7	7101	C 2	9111	G 6



THIS CIRCUIT HAS BEEN DRAWN IN FM POSITION.

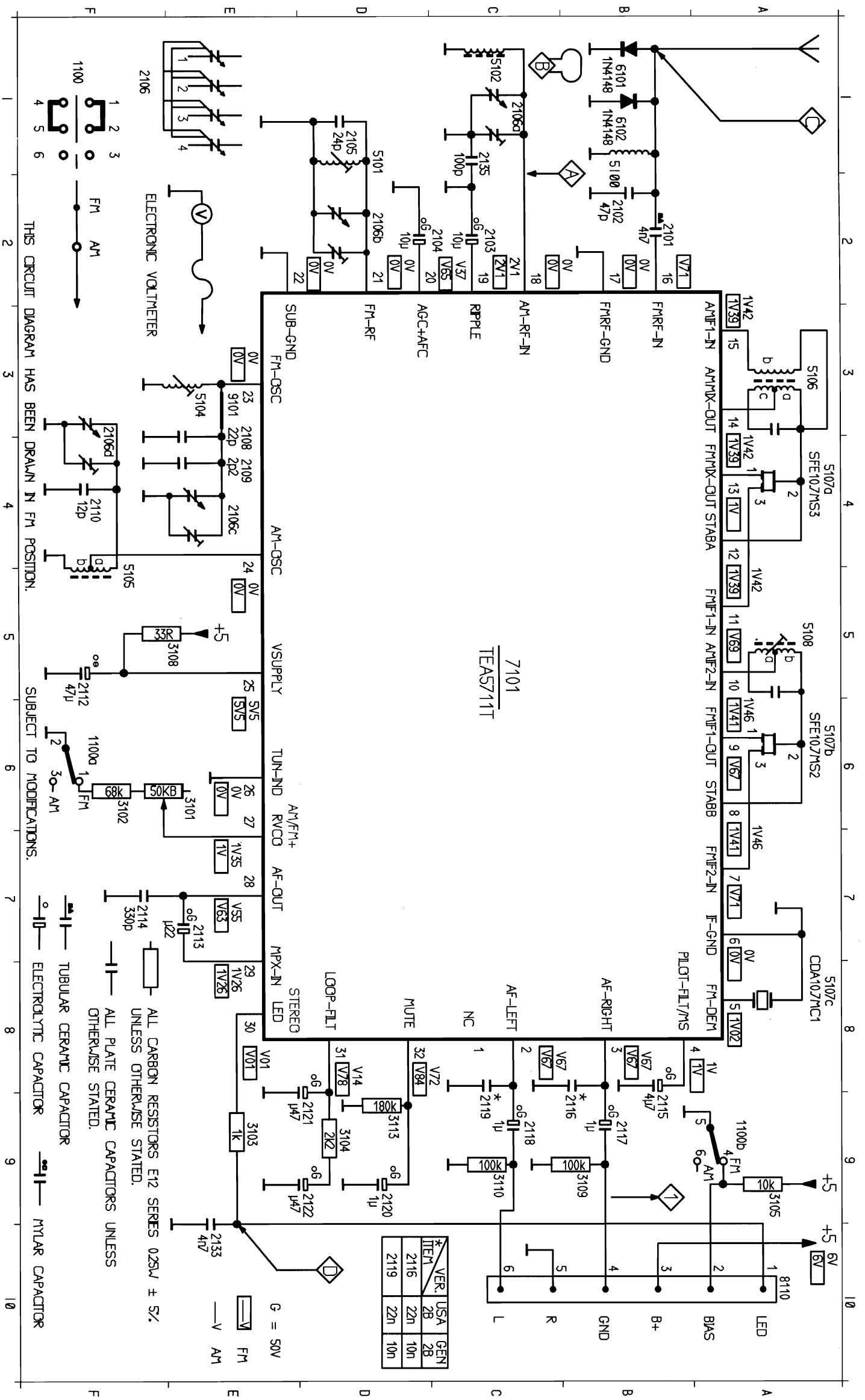
SUBJECT TO MODIFICATIONS.





# TUNER BOARD (J01/17) - CIRCUIT DIAGRAM

- 1100a F 6
- 1100b A 9
- 2101 B 2
- 2102 B 2
- 2103 C 2
- 2104 C 2
- 2105 D 1
- 2106a C 1
- 2106b D 2
- 2106c E 4
- 2106d E 4
- 2108 E 4
- 2109 E 4
- 2110 E 4
- 2111 E 5
- 2112 E 7
- 2113 E 7
- 2114 F 7
- 2115 B 9
- 2116 B 9
- 2117 B 9
- 2118 C 9
- 2119 C 9
- 2120 D 9
- 2121 D 9
- 2122 D 9
- 2133 E 10
- 2135 E 10
- 3101 E 6
- 3102 F 6
- 3103 E 9
- 3104 E 9
- 3105 A 9
- 3108 F 6
- 3109 B 9
- 3110 C 9
- 3113 D 9
- 5100 B 2
- 5101 D 1
- 5102 C 3
- 5105 F 5
- 5106a A 4
- 5107a A 6
- 5107c A 8
- 5108 A 5
- 6101 B 1
- 6102 B 1
- 7101 C 5
- 8110 A10
- 9101 E 3



VER.	USA	GEN
2116	2B	2B
2119	22n	10n
	22n	10n

THIS CIRCUIT DIAGRAM HAS BEEN DRAWN IN FM POSITION.

SUBJECT TO MODIFICATIONS.

ALL CARBON RESISTORS E12 SERIES 0.25W ± 5% UNLESS OTHERWISE STATED.

ALL PLATE CERAMIC CAPACITORS UNLESS OTHERWISE STATED.

TUBULAR CERAMIC CAPACITOR

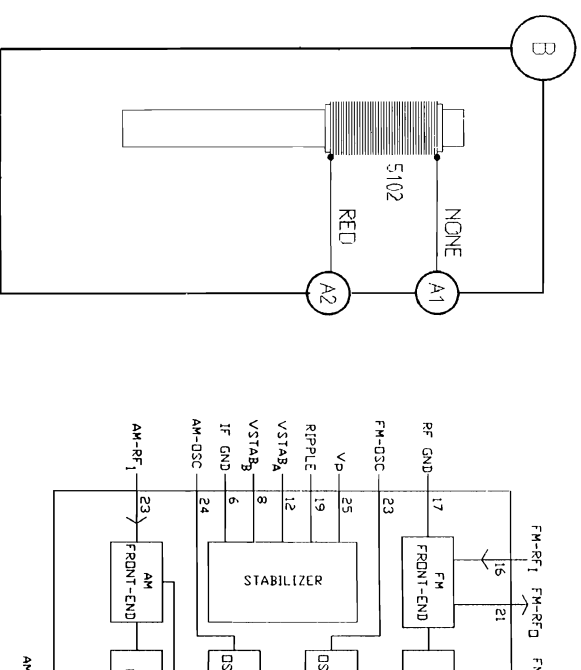
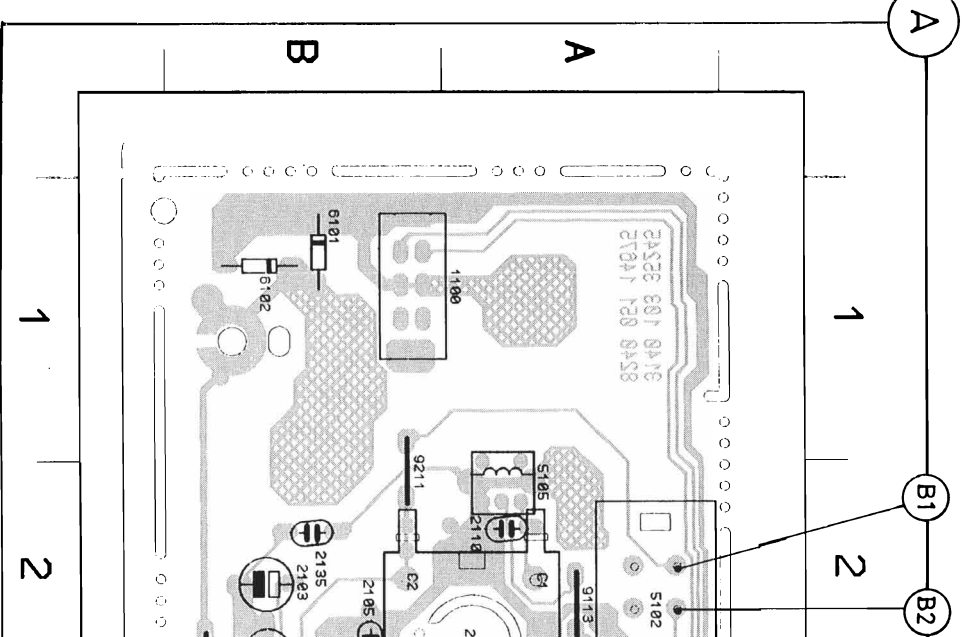
ELECTROLYTIC CAPACITOR

MYLAR CAPACITOR

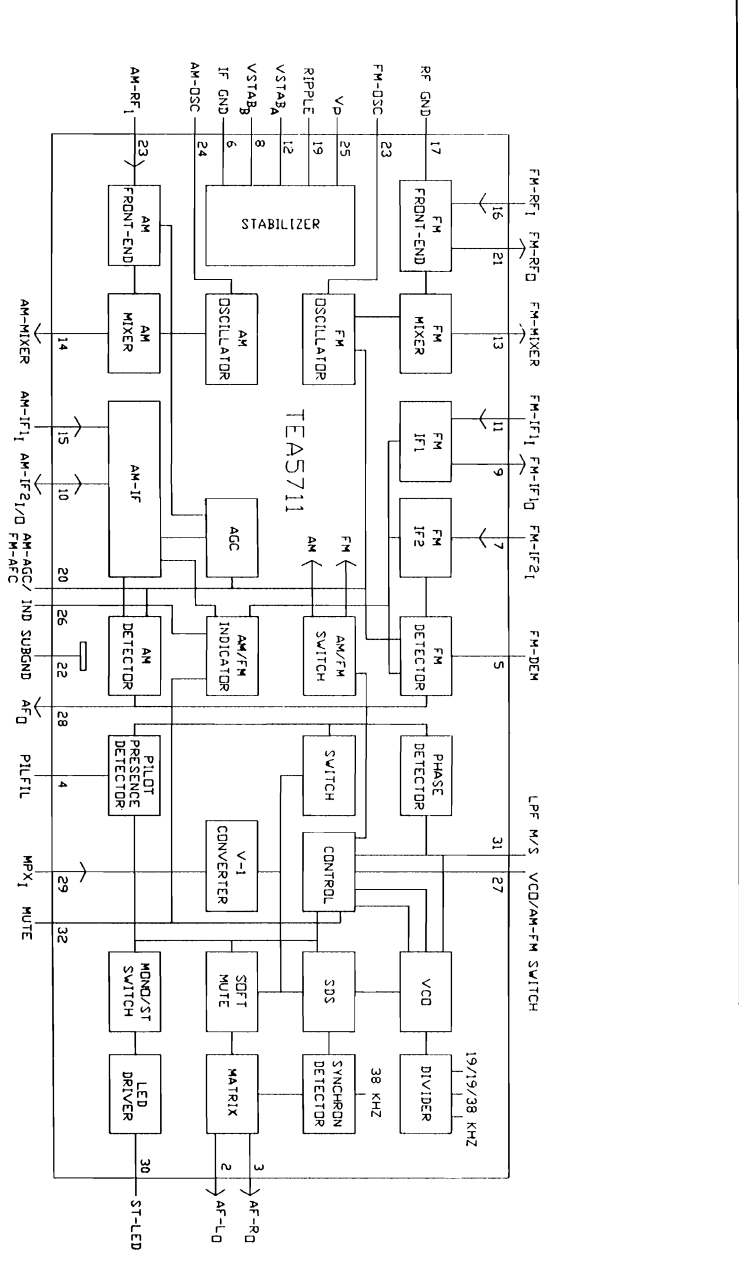
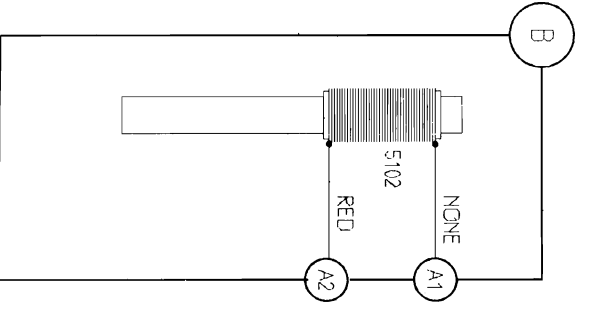
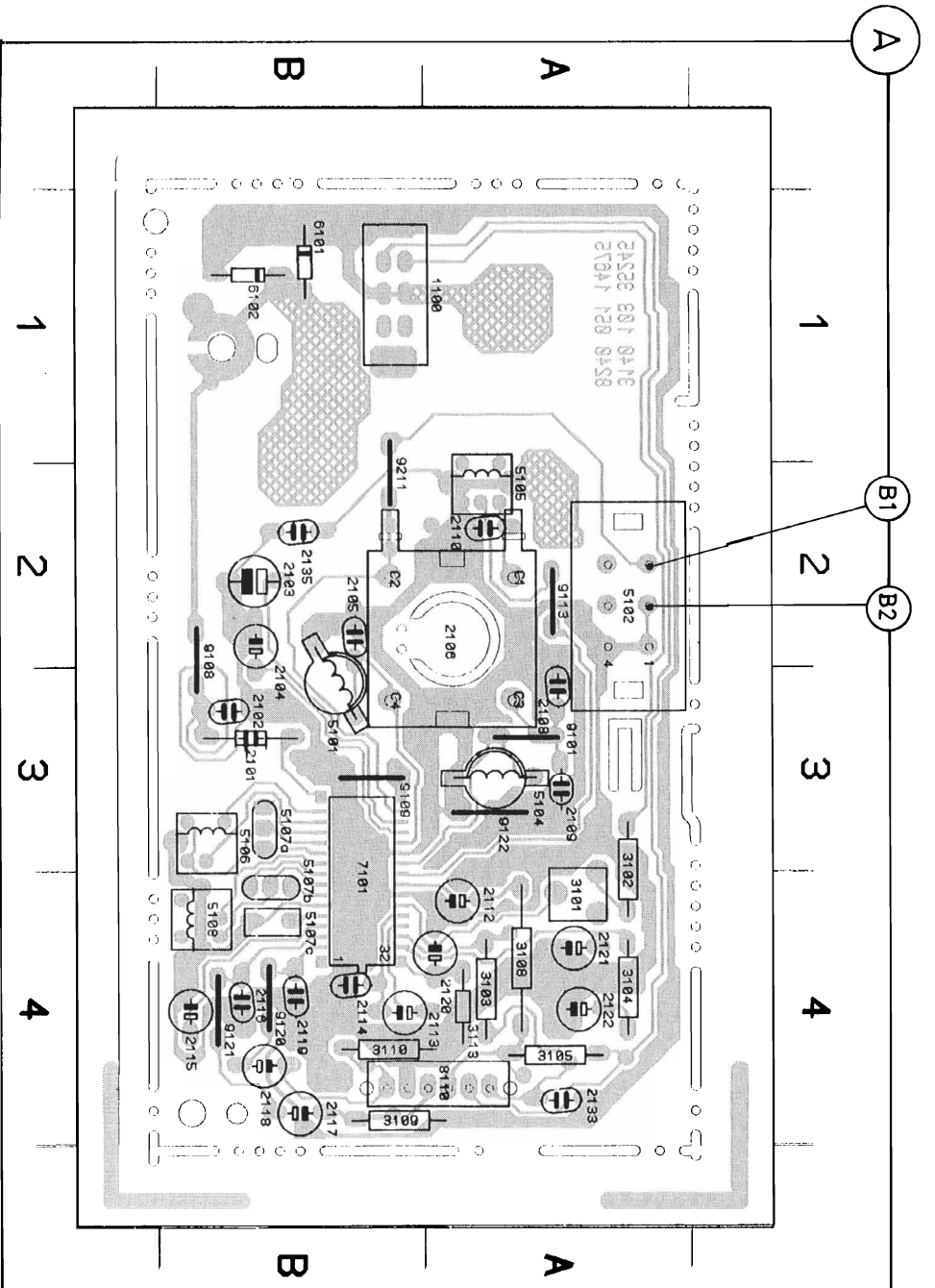
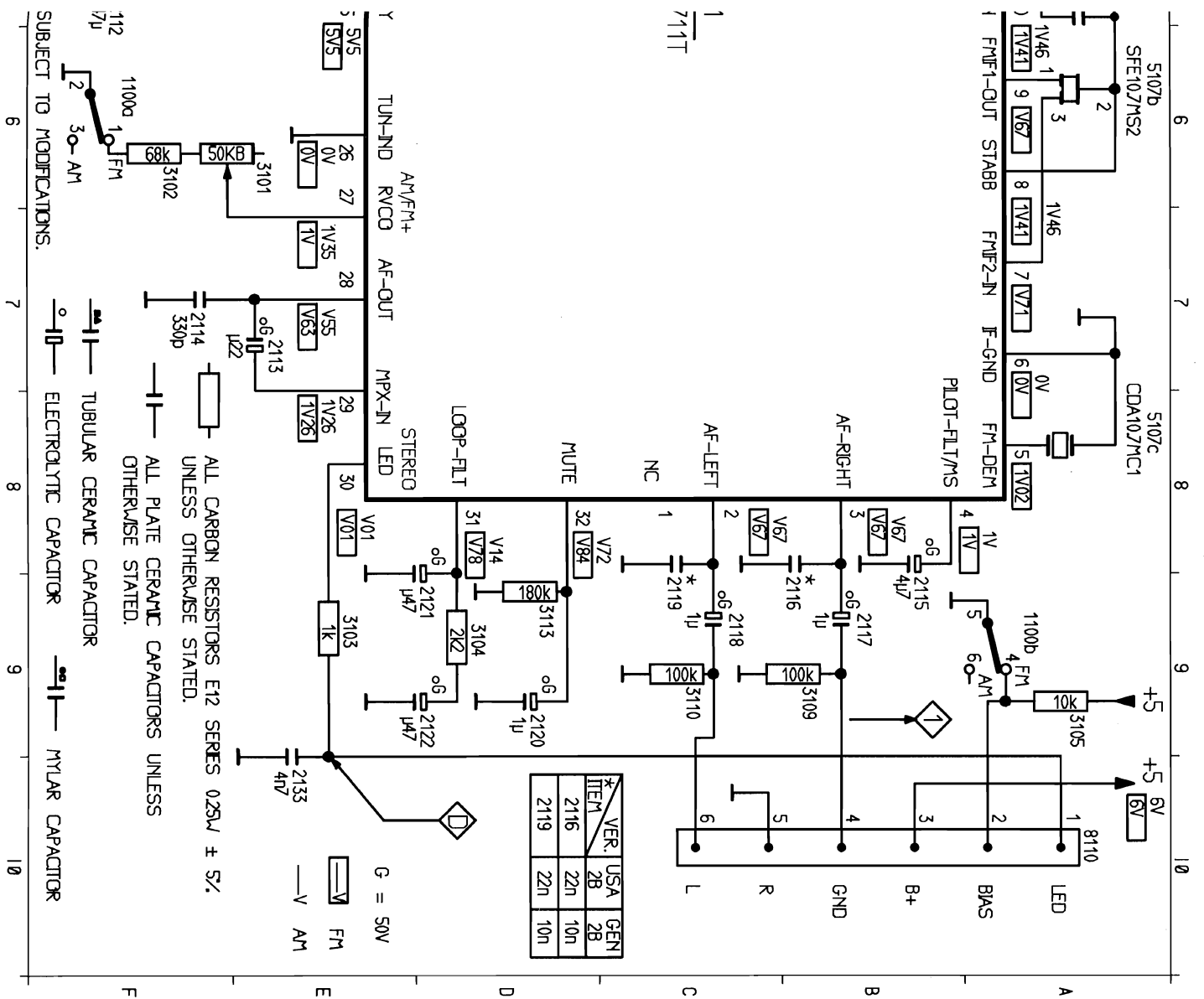
G = 50V

FM

AM

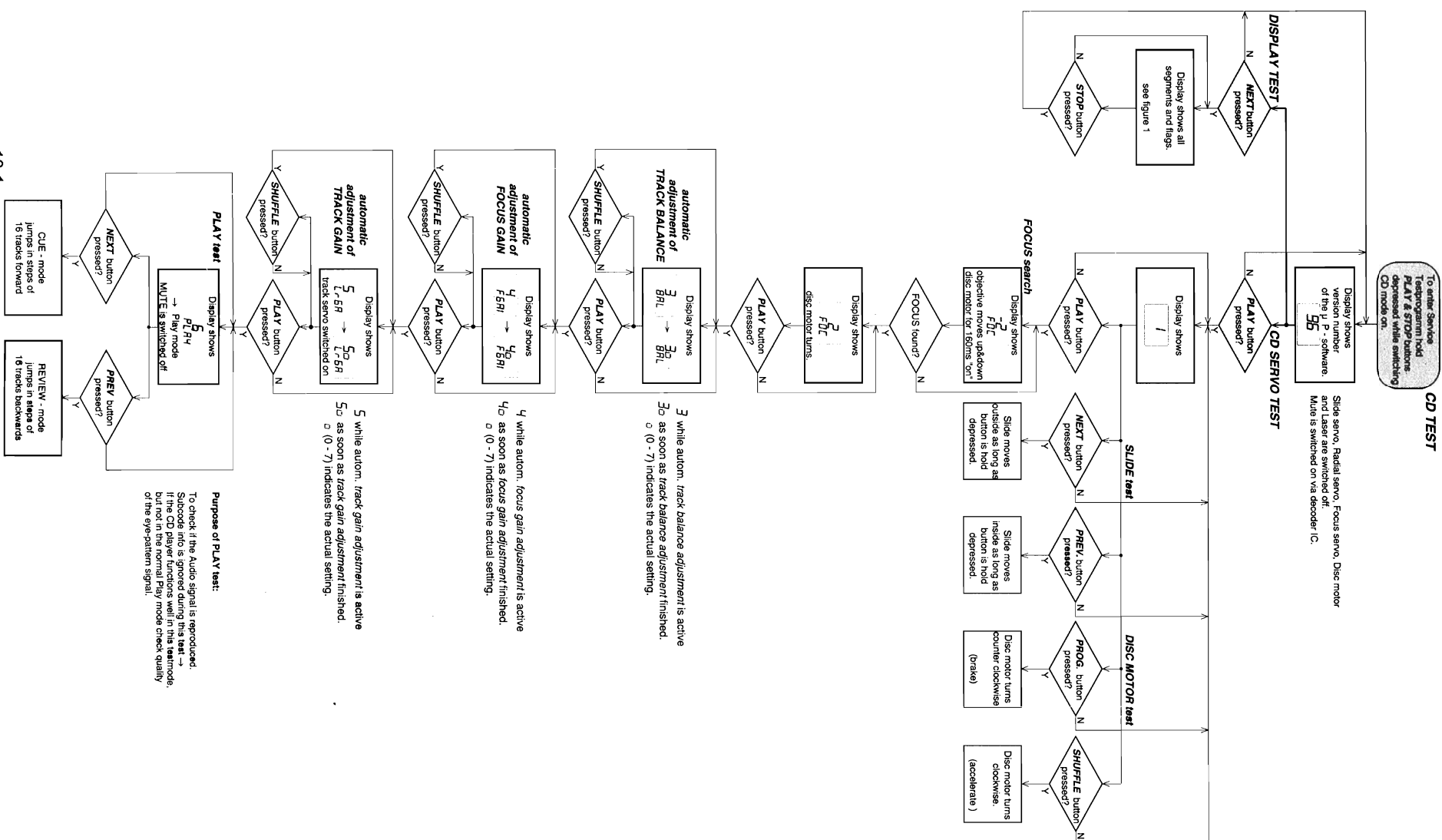


- 3108 E 5 5100 B 2 5105 F 5 5107c A 8 7101 C 5
- 3109 B 9 5101 D 1 5106 A 3 5108 A 5 8110 A10
- 3110 C 9 5102 C 1 5107d A 6 8101 B 1 9101 E 3
- 3113 D 9 5104 E 3 5107b A 4 8102 B 1



# SERVICE TESTPROGRAM

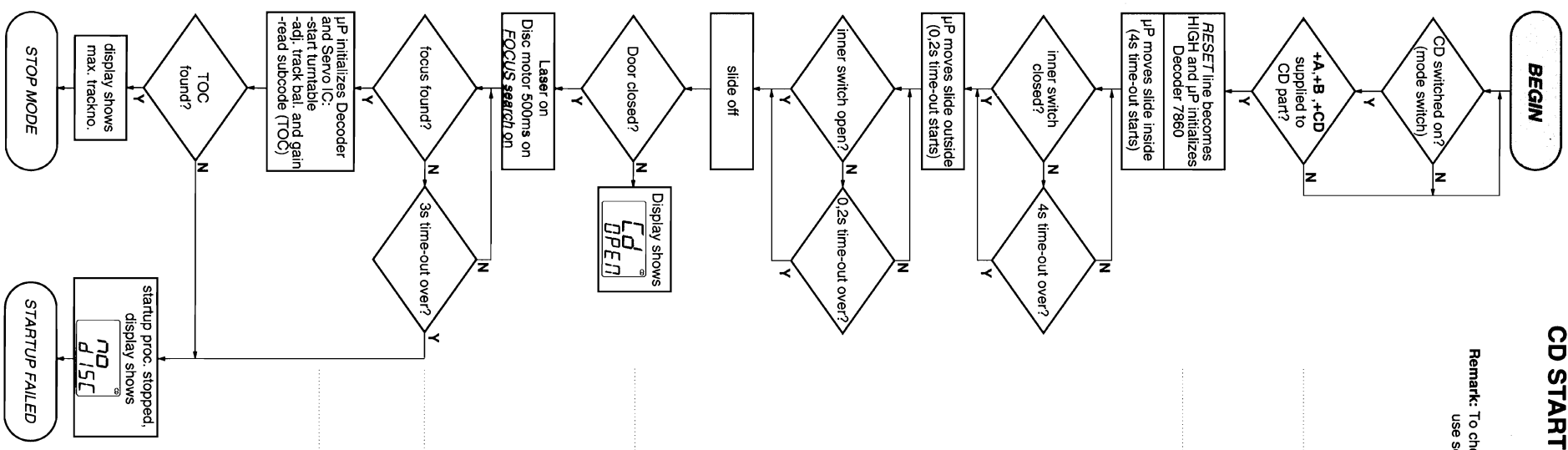
- STOP button pressed in any step returns to begin of Service Testprogram
- To leave Service Testprogram switch mode switch to off-position
- Door switch is ignored → CD door can be opened
- Volume up/down buttons function independently of the service testprogram.



**Purpose of PLAY test:**  
To check if the audio signal is reproduced. Sidecode info is ignored during this test → If the CD player functions well in this testmode but not in the normal Play mode check quality of the eye-pattern signal.

# CD STARTUP - PROCEDURE

**Remark:** To check focus servo, slide servo, track servo and turntable use service test program



- Battery empty?
- check +A, +B, +CD and +JP
- check: - time constant of reset circuit
- Pin 17,18 of JP 7800 HIGH?
- Pin 28 of decoder 7860 HIGH?
- Pin 10 of JP 7800 if 4,19 MHz.
- check: - door switch
- check: - Laser light on ? - Check pin 2 of 7850 and LASER CONTROL circuit
- Focus Servo
- check: - Motor control pin 22 of Decoder 7860 and Disc Motor driver 7805
- HF Signal

# Abbreviation

Pin	Name
1-3	A, B, C
4-5	E, F
6	SGT
7	TE
8	TEGain
9	TG1
10	TE out
11	TC/Stroke
12	TS +
13	TG2
14	TS -
15	TS out
16	SS +
17	SS -
18	Slide out
19	DEFILL
20	BIAS
21	GND
22	MLA/DIS
23	JP1/SG
24	MCK
25	MSD
26	Dout
27	CLP+
28	IREF
29	VCC
30	FSout
31	FS-
32	FEGain
33	FE -
34	SGF
35	CFSR
36	APC +
37	APC -
38	APC out
39	MRC
40	HF
41	HFI
42	ABC

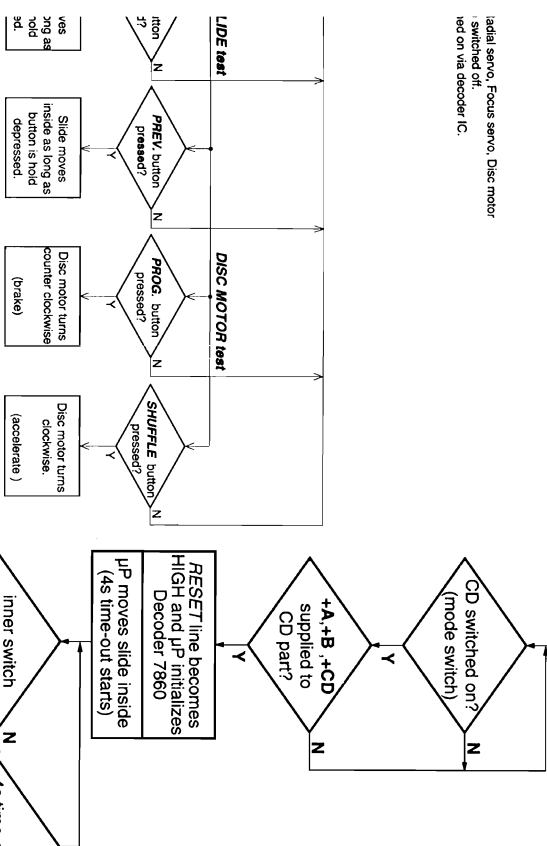
# SIGNAL PROCI

Pin	Name
1	CL11
2	DOBM
3	V1
4	V2
5	Test2
6	Test1
7	ISLICE
8	HFIN
9	HFFREF
10	IREF
11	VDDA
12	VSSA
13	CRIN
14	CROUT
15	VDD1
16	VSS1
17	CL16
18	MISC
19	DATA
20	WCLK
21	SCLK
22	MOTOR1
23	MOTOR2
24	V5
25	V4
26	V3
27	KILL
28	PORE
29	CLA
30	DA
31	CL
32	RAB
33	CFLG
34-42	not used
43	VSS2
44	VDD2



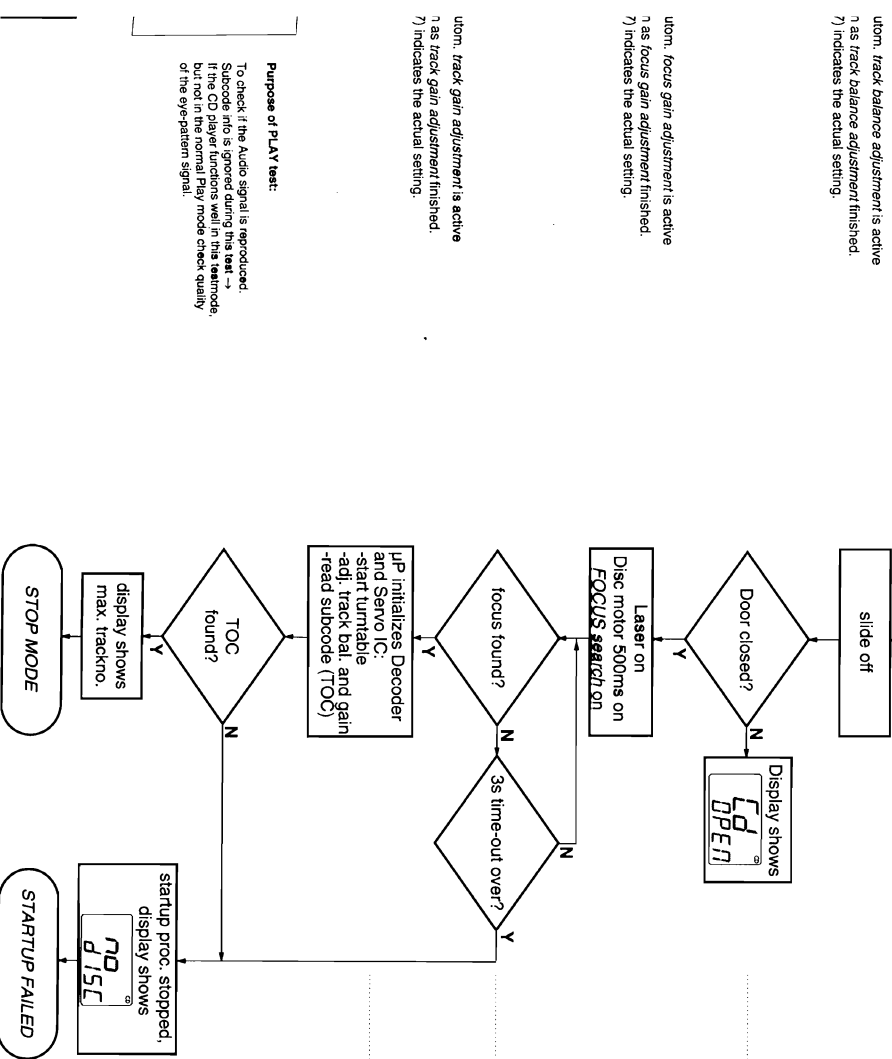
## CD STARTUP - PROCEDURE

Remark: To check focus servo, slide servo, track servo and turntable use service test program



- Battery empty?  
- check +A, +B, +CD and +HP

check: - time constant of reset circuit  
- Pin 17, 18 of uP 7800 HIGH?  
- Pin 28 of decoder 7860 HIGH?  
- Pin 10 of uP 7800 if 4, 19 MHz.



check: - Laser light on ? - Check pin 2 of 7850 and LASER CONTROL circuit  
- Focus Servo

check: - Motor control pin 22 of Decoder 7860 and Disc Motor driver 7805  
- HF Signal

### Purpose of PLAY test:

To check if the Audio signal is reproduced.  
Subcode info is ignored during this test →  
If the CD player functions well in this testmode,  
but not in the normal Play mode check quality  
of the eye-pattern signal.

## Abbreviations and 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 servo
7	TE -	-
8	TE Gain	-
9	TG1	-
10	TE out	-
11	TC/Shock	-
12	TS +	-
13	TG2	not connected
14	TS -	-
15	TS out	Servo processor -> Servo driver
16	SS +	-
17	SS -	-
18	Slide out	Servo processor -> Motor driver
19	DET/FIL	Servo processor -> external electronic
20	BIAS	-
21	GND	-
22	MLA/DIS	uP -> Servo processor
23	JP1/SG	uP -> Servo processor
24	MCK	uP -> Servo processor
25	MSD	uP -> Servo processor
26	Dout	Servo processor -> uP
27	CL/PF	-
28	IREF	-
29	VCC	-
30	FSout	Servo processor -> Servo driver
31	FS -	-
32	FE Gain	-
33	FE -	-
34	SGF	Servo processor -> Focus servo
35	CeFR	-
36	APC +	-
37	APC -	Servo processor -> Laser driver
38	MRC	-
39	HF	Servo processor -> Decoder
40	HF1	-
41	HF1	-
42	ABC	-

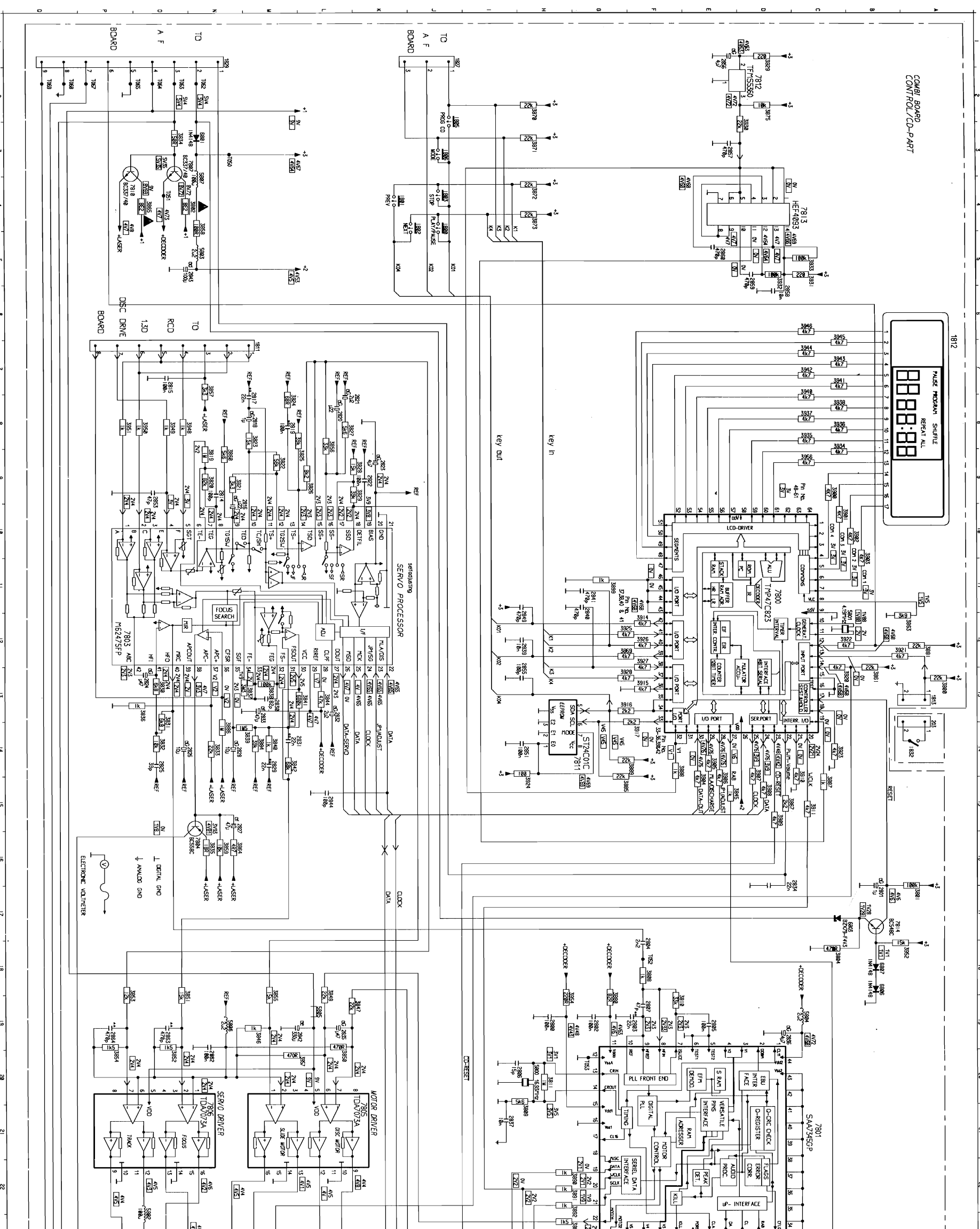
### SIGNAL PROCESSOR SAA7345GPM15

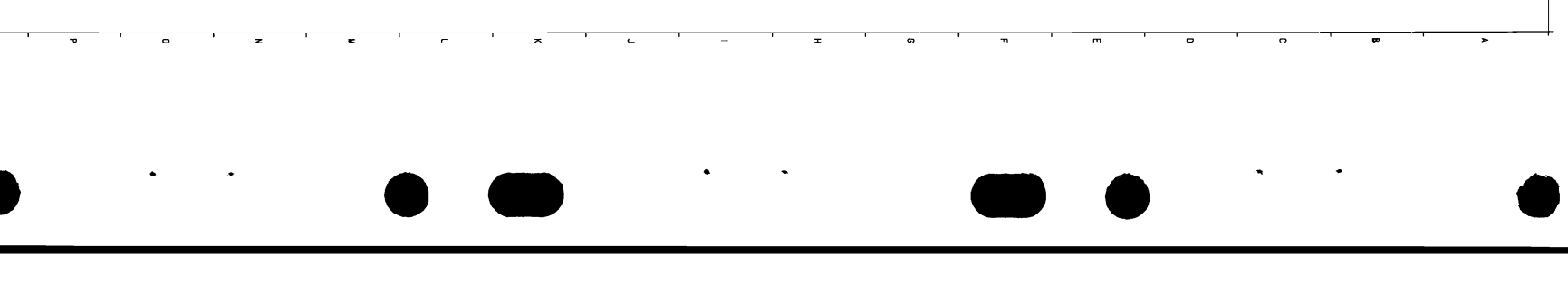
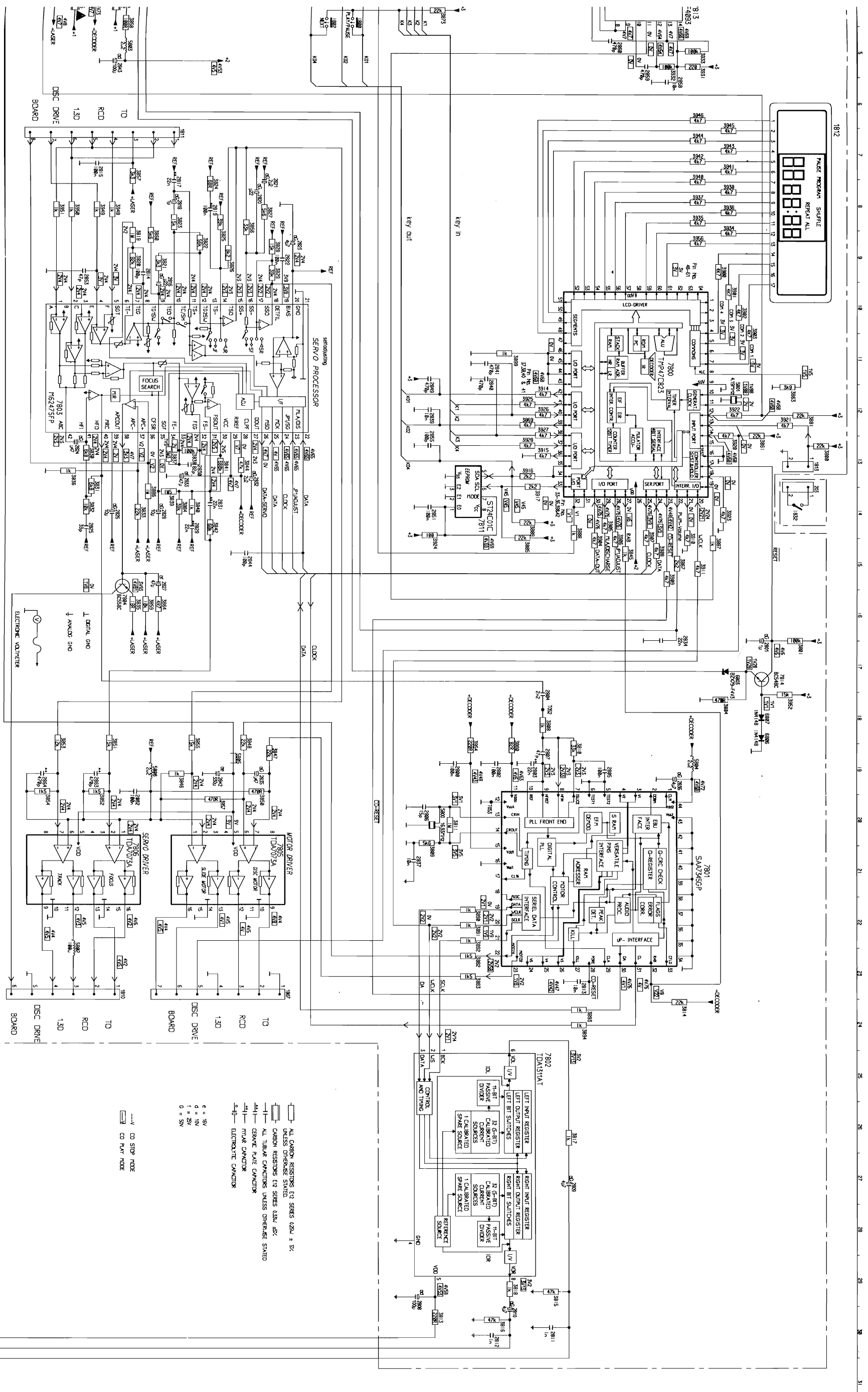
Pin	Name	Direction/Description
1	CL11	not connected
2	DOBM	signal processor -> Digital out (n.c.)
3	V1	not connected
4	V2	not connected
5	Test2	not connected
6	Test1	GND
7	ISLICE	signal processor -> signal processor
8	HF1N	HF Pre-amp -> signal processor
9	HFREF	HF Pre-amp -> signal processor
10	IREF	-> signal processor
11	VDDA	-
12	VSSA	-
13	CR1N	X-tal -> signal processor
14	CHOUT	signal processor -> X-Tal
15	VDD1	-
16	VSS1	-
17	CL16	signal processor -> DS1C2
18	MISC	not connected/general purpose DAC output (3-state)
19	DATA	signal processor -> DAC
20	WCLK	signal processor -> DAC
21	SCLK	signal processor -> DAC
22	MOTOR1	signal processor -> Disc motor driver
23	MOTOR2	not connected
24	V5	not connected
25	V4	not connected
26	V3	not connected
27	PORE	uP -> signal processor
28	CLA	uP -> signal processor
29	DA	uP <-> signal processor
30	CL	uP -> signal processor
31	RAB	uP -> signal processor
32	CFLG	not connected
33	CFLG	not connected
34-42	not used	-
43	VSS2	-
44	VDD2	GND



CD6 BOARD - CIRCUIT DIAGRAM

203	A14	2841	G11	3845	E15	3915	F13	7806	N20
1800	J5	2842	M19	3846	M19	3916	G13	7807	N3
1801	K4	2843	N5	3847	K19	3917	F14	7810	P4
1802	K5	2844	L15	3848	L19	3920	C13	7811	G14
1803	J4	2849	H12	3850	L20	3921	B12	7812	D1
1805	I3	2851	O4	3851	O19	3922	C12	7813	C4
1806	J3	2853	O9	3852	O20	3923	C14	7814	B17
1807	K23	2855	H13	3853	P19	3924	H15	T050	N3
1810	N23	2856	E1	3854	P20	3925	G12	T051	O4
1811	M7	2857	E3	3855	M19	3926	F12	T052	F18
1812	A6	2858	D6	3856	L8	3927	F12	T053	G20
1813	A13	2859	D5	3857	N7	3928	G13	T062	N2
1827	J1	2860	E6	3858	N4	3929	D1	T063	O2
1829	M1	2862	N20	3859	N16	3930	E2	T064	O2
1832	A14	2863	O19	3860	N9	3931	C5	T065	O2
2800	H19	2864	P19	3861	B13	3932	D5	T067	P2
2801	B17	3800	A13	3863	A12	3933	D6	T068	Q2
2802	G19	3801	A17	3864	N16	3934	C8	T069	Q2
2803	F19	3802	N4	3865	O4	3935	C8		
2804	F18	3804	C18	3867	D15	3936	C8		
2805	E19	3808	F18	3869	G12	3937	C8		
2806	I20	3810	H21	3870	H3	3938	C8		
2807	F19	3810	E19	3871	H3	3940	C7		
2808	I29	3811	H20	3872	H4	3941	C7		
2809	F27	3813	H30	3873	H5	3942	C7		
2810	G30	3814	D24	3875	D2	3943	C7		
2811	F30	3815	F29	3880	G19	3944	C7		
2812	G30	3816	G30	3881	A12	3945	C6		
2813	E23	3817	F26	3882	H23	3946	C6		
2814	N9	3818	G29	3883	H23	3948	O8		
2815	O7	3819	N9	3884	M14	3949	O8		
2816	N10	3820	N9	3885	F15	3950	O8		
2817	M8	3821	N9	3886	N14	3951	P8		
2818	M8	3822	M9	3887	C15	3952	A18		
2819	M8	3823	M8	3888	F14	3954	H19		
2820	L8	3824	M8	3889	F14	3956	C9		
2821	K8	3825	L9	3890	H22	3957	L20		
2822	K9	3826	L9	3891	H22	5800	H20		
2823	K9	3827	L8	3892	H22	5801	B12		
2824	O13	3828	K9	3893	E24	5802	O22		
2825	O14	3829	K9	3894	E24	5803	N5		
2826	O14	3830	O13	3899	G11	5804	C19		
2827	N15	3831	O14	3900	C9	5805	L19		
2828	N14	3832	O14	3901	C10	5806	N19		
2829	M14	3833	N14	3902	B10	5807	N4		
2830	M13	3834	O3	3903	B11	6801	N3		
2831	M14	3835	N16	3904	E15	6803	B17		
2832	L13	3836	O13	3905	E14	6806	B18		
2833	M13	3837	M13	3906	E15	6807	B18		
2834	D17	3838	M13	3907	D14	7800	D11		
2835	L19	3839	M14	3908	D15	7801	C21		
2836	D19	3840	M14	3909	D15	7802	F25		
2837	I21	3841	L13	3910	C15	7803	P12		
2839	H12	3842	M14	3911	C15	7804	N16		
2840	G12	3844	L13	3914	F12	7805	K20		

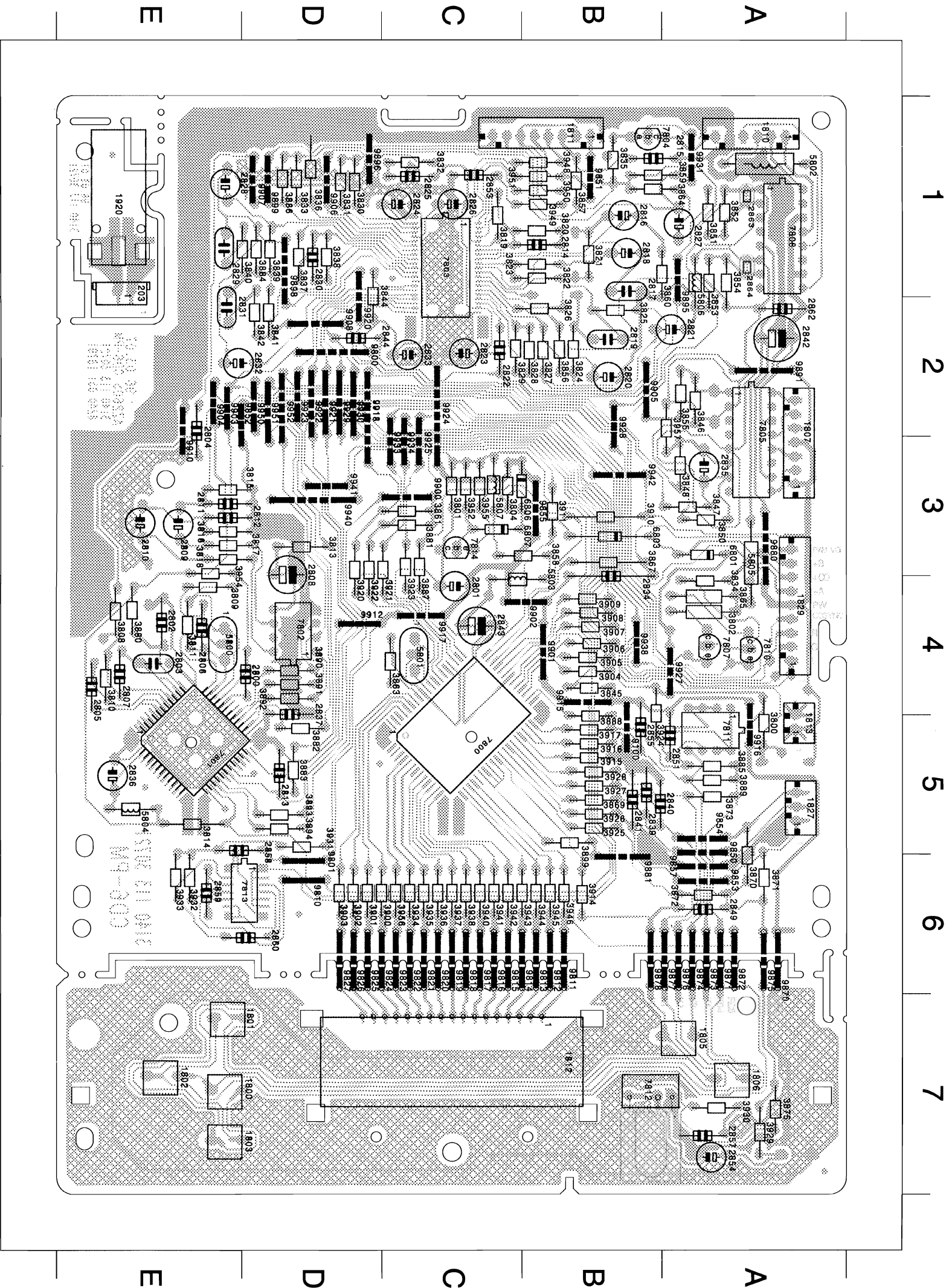




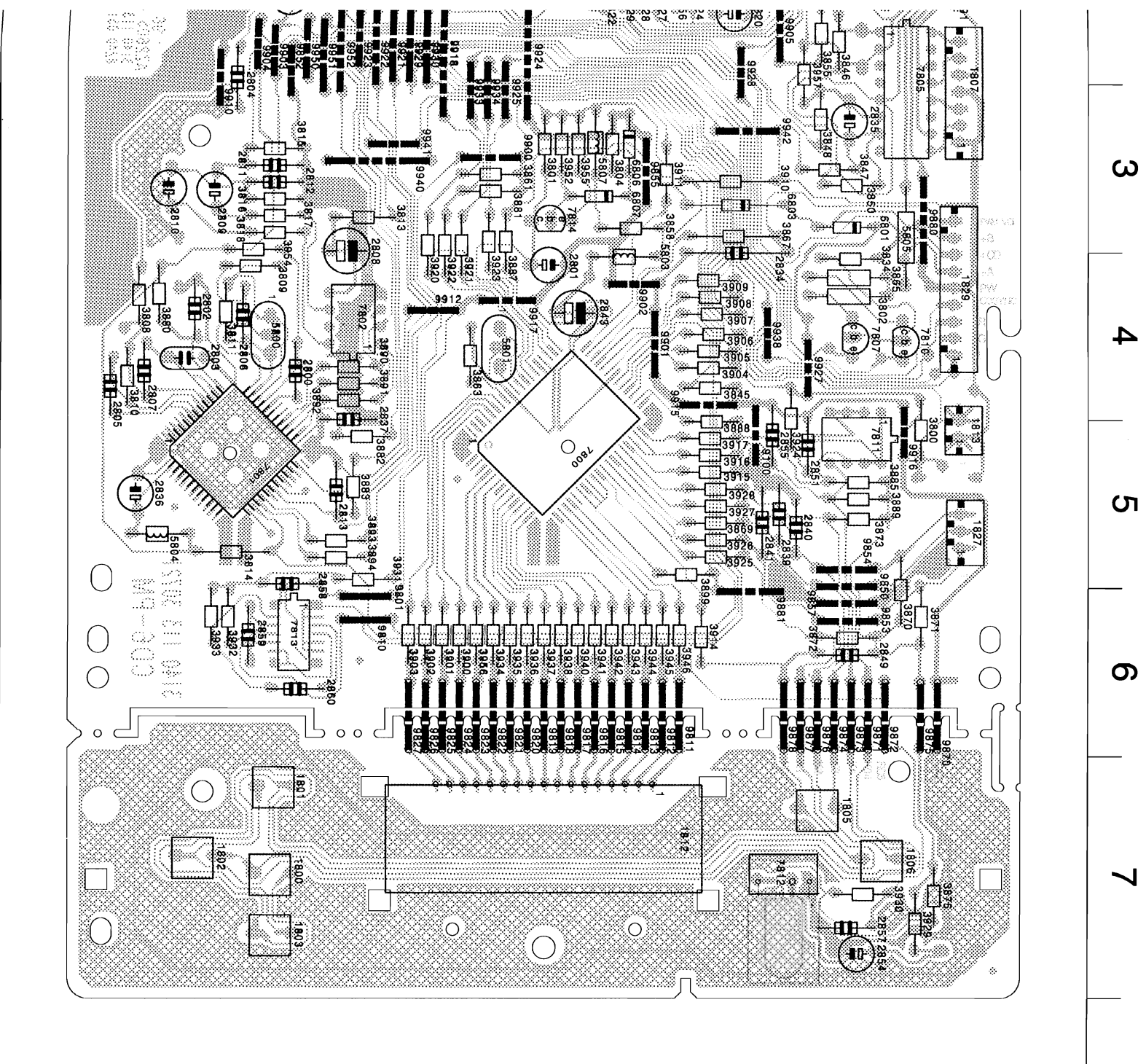
ALL CARBON RESISTORS E2 SERIES (50W = 5%)  
 UNLESS OTHERWISE STATED  
 CARBON RESISTORS E12 SERIES (50W = 5%)  
 ALL TUBULAR CAPACITORS UNLESS OTHERWISE STATED  
 CERAMIC FILM CAPACITOR  
 MYLAR CAPACITOR  
 ELECTROLYTIC CAPACITOR  
 5V = 5V  
 10V = 10V  
 15V = 15V  
 G = 5V  
 -V CD STOP HOLE  
 CD PLY HOLE

SUBJECT TO MODIFICATIONS

CD6 BOARD - LAYOUT DIAGRAM

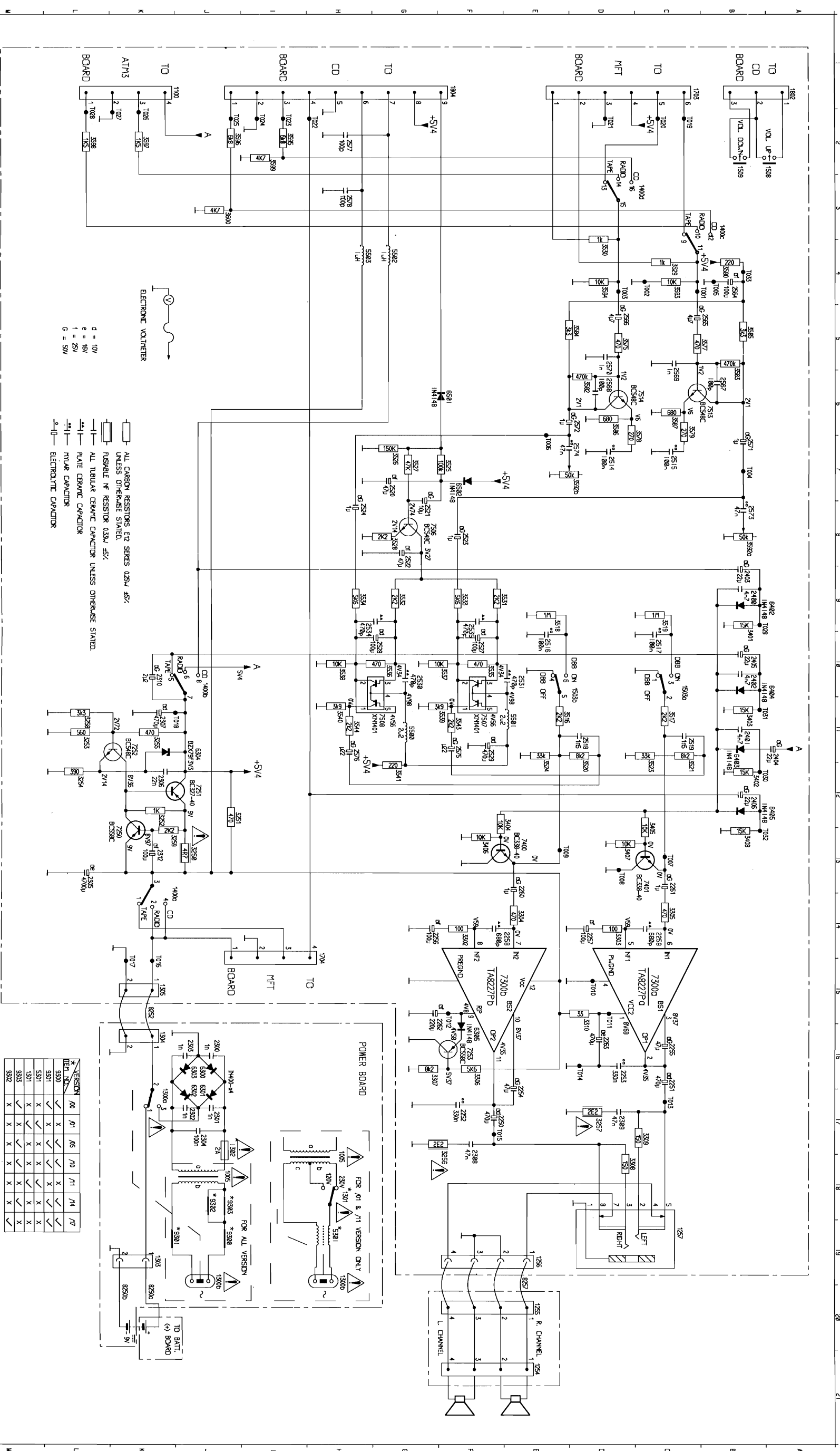


- 1806
- 1807
- 1810
- 1811
- 1812
- 1813
- 1827
- 1829
- 1920
- 2800
- 2801
- 2802
- 2809
- 2810
- 2811
- 2812
- 2813
- 2814
- 2815
- 2816
- 2817
- 2818
- 2819
- 2820
- 2827
- 2828
- 2829
- 2830
- 2831
- 2832
- 2833
- 2834
- 2835
- 2836
- 2837
- 2839
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- 2858
- 2859
- 2860
- 2862
- 2863
- 2864
- 3800

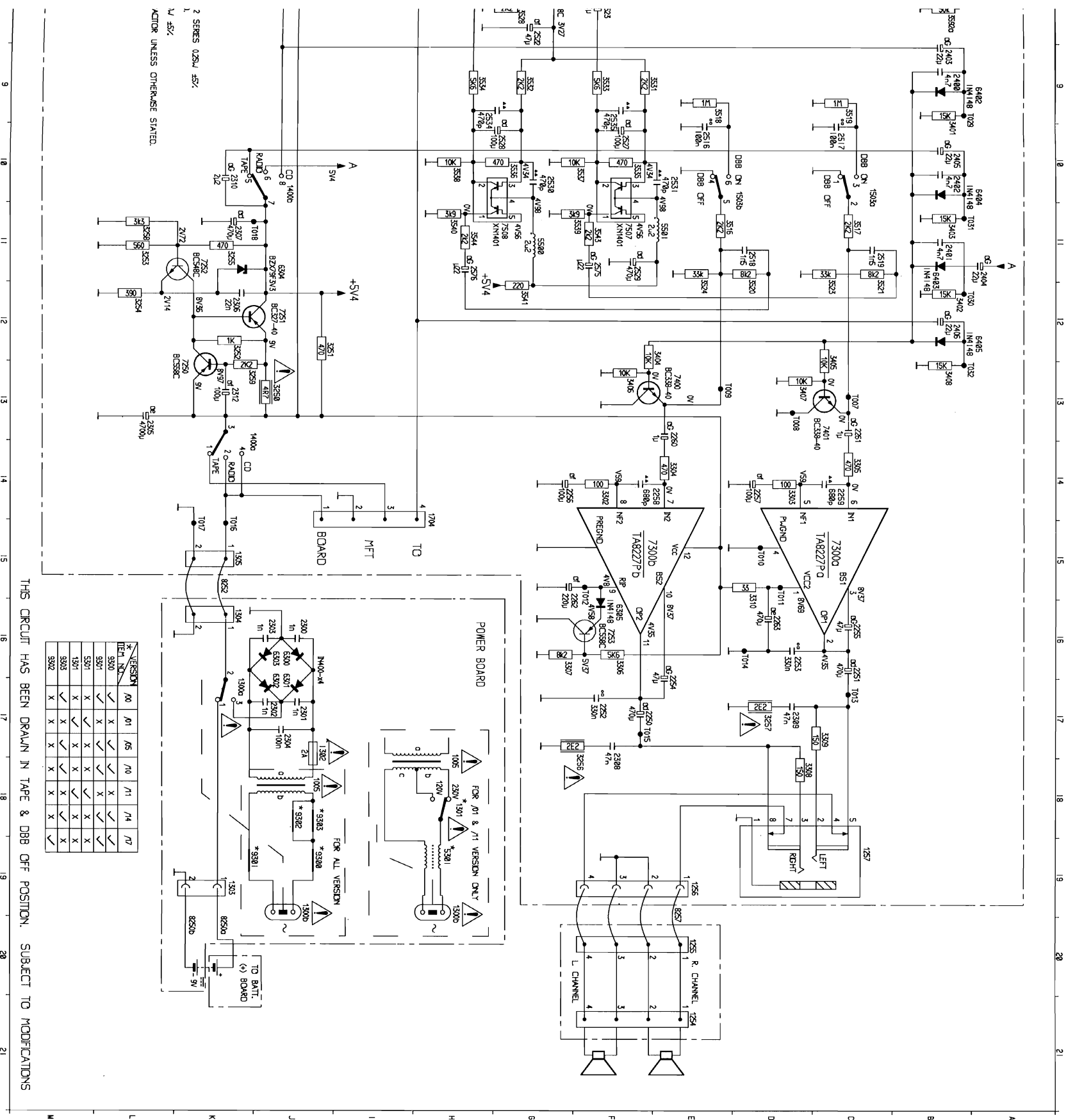


1806	A7	3811	E4	3894	D5	7807	A4	9928	B2
1807	A3	3813	D3	3899	B5	7810	A4	9929	D2
1810	A1	3814	E5	3900	D6	7811	A5	9930	D2
1811	B1	3815	E3	3901	D6	7812	B7	9931	A1
1812	C7	3816	E3	3902	D6	7813	D6	9933	C3
1813	A5	3817	E3	3903	D6	7814	C3	9934	C3
1827	A5	3818	E3	3904	B4	9100	B5	9938	B4
1829	A4	3819	C1	3905	B4	9800	D2	9940	D3
1920	E1	3820	B1	3906	B4	9801	D6	9941	D3
2800	D4	3821	B1	3907	B4	9810	D6	9942	B3
2801	C4	3822	B1	3908	B4	9811	B6	9950	D2
2802	E4	3823	B1	3909	B4	9812	B6	9951	D2
2809	E3	3830	D1	3920	D3	9819	C6		
2810	E3	3831	D1	3921	C3	9820	C6		
2811	E3	3832	C1	3922	D3	9821	C6		
2812	E3	3833	D1	3923	C3	9822	C6		
2813	D5	3834	A4	3924	B4	9823	C6		
2814	B1	3835	B1	3925	B5	9824	D6		
2815	B1	3836	D1	3926	B5	9825	D6		
2816	B1	3837	D1	3927	B5	9826	D6		
2817	B1	3838	D1	3928	B5	9827	D6		
2818	B1	3839	D1	3929	A7	9850	A5		
2819	B2	3840	D1	3930	A7	9851	B1		
2820	B2	3841	D2	3931	D5	9852	E2		
2827	A1	3850	A3	3938	C6	9872	A6		
2828	E1	3851	A1	3940	C6	9873	A6		
2829	E1	3852	A1	3941	C6	9874	A6		
2830	D1	3853	A1	3942	C6	9875	A6		
2831	E2	3854	A1	3943	C6	9876	A6		
2832	E2	3855	A2	3944	B6	9877	A6		
2833	C2	3856	B2	3945	B6	9878	B6		
2834	B4	3857	B1	3946	B6	9880	A3		
2835	A3	3858	B3	3948	B1	9881	B6		
2836	E5	3859	B1	3949	B1	9891	A2		
2837	D4	3860	A1	3950	B1	9895	A1		
2839	B5	3861	C3	3951	B1	9896	D1		
2851	A5	3871	A6	5801	C4	9904	E2		
2853	C1	3872	A6	5802	A1	9905	B2		
2854	A7	3873	A5	5803	C4	9906	D1		
2855	B5	3875	A7	5804	E5	9907	D1		
2857	A7	3880	E4	5805	A3	9908	D2		
2858	E5	3881	C3	5806	A1	9910	E2		
2859	E6	3882	D5	5807	C3	9912	D4		
2860	D6	3883	D5	6801	A3	9915	B4		
2862	A2	3884	D1	6803	B3	9916	A5		
2863	A1	3885	A5	6806	C3	9917	C4		
2864	A1	3886	D1	6807	C	9918	D2		
3800	A5	3887	C3	7800	C5	9920	D1		

COMBI BOARD - CIRCUIT DIAGRAM



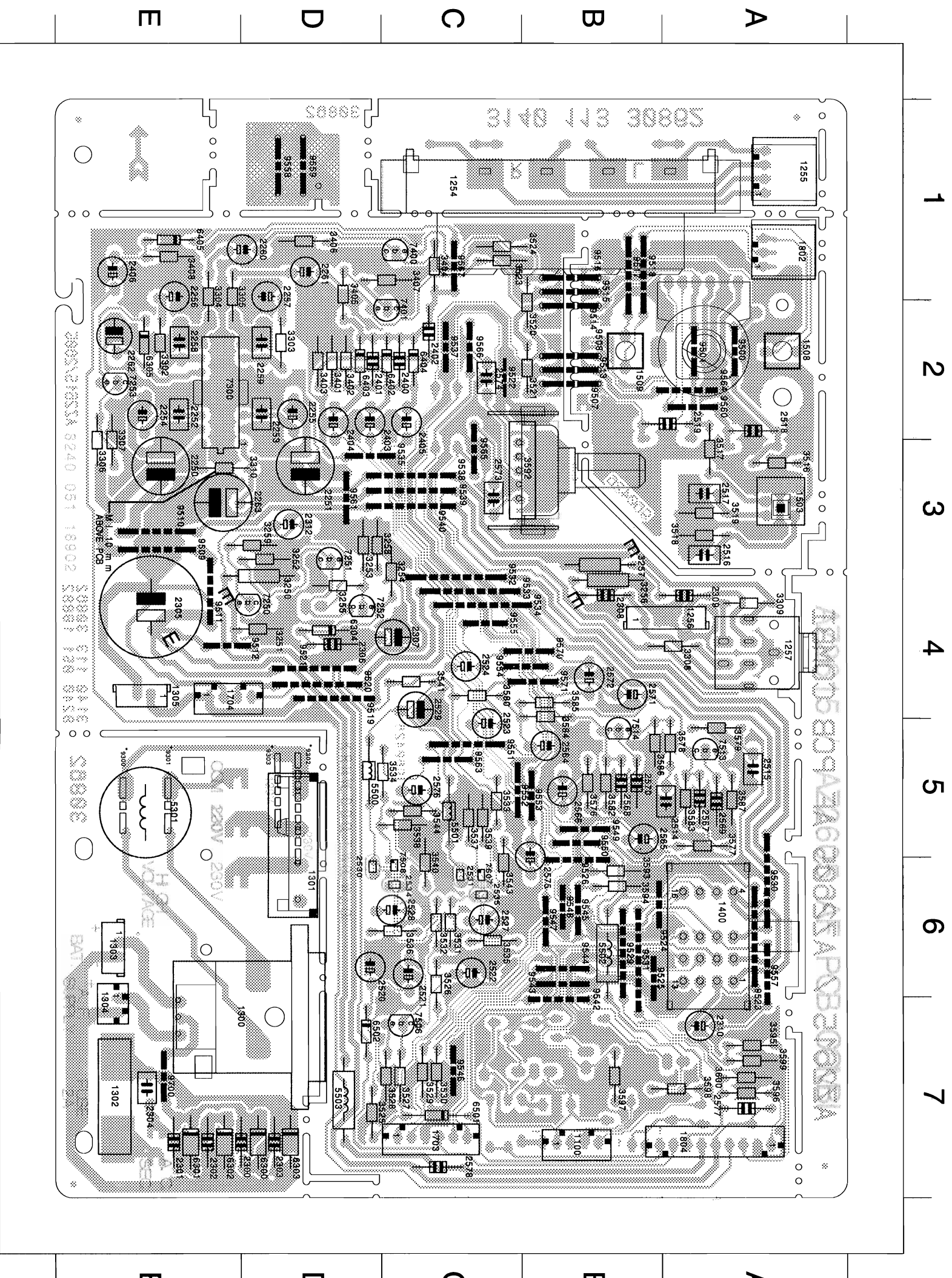
THIS CIRCUIT HAS BEEN DRAWN IN TAPE & DB8 OFF POSITION. SUBJECT TO MODIFICATIONS



1100	J1	2307	K11	3255	K11	3577	B5	9300	J19
1254	E21	2308	F18	3256	F18	3578	C7	9301	K19
1255	E20	2309	D17	3257	D17	3579	C6	9302	J18
1256	E19	2310	K10	3258	L11	3580	B4	9303	J18
1256	F19	2312	K13	3259	K13	3582	D6	T001	B4
1256	F19	2400	B9	3302	F14	3583	B6	T002	C4
1256	E19	2401	B11	3303	D14	3584	D5	T003	D4
1257	C19	2402	B10	3304	E14	3585	B5	T004	B7
1300a	K17	2403	B9	3305	C14	3586	D6	T005	B4
1300b	J19	2404	A11	3306	F16	3587	C6	T006	E7
1300b	H19	2405	B10	3307	G16	3592a	C6	T007	C13
1301	H18	2406	B12	3308	D18	3592b	D7	T008	D13
1302	J17	2514	D7	3309	C17	3593	C4	T009	E13
1303	K19	2515	C7	3310	D16	3594	D4	T010	D15
1303	K19	2516	E10	3401	B10	3595	J2	T011	D15
1304	K16	2517	C10	3402	B12	3596	J2	T012	F15
1305	K15	2518	D11	3403	B11	3597	K2	T013	C17
1400a	K14	2519	C11	3404	E12	3598	L3	T014	D16
1400b	J10	2520	G7	3405	C13	3599	I2	T015	F17
1400c	B3	2521	G8	3406	F13	3600	J3	T016	K14
1400d	C3	2522	G8	3407	D13	5301	H19	T017	K14
1503a	C10	2523	F8	3408	B13	5500	G11	T018	K11
1503b	D10	2524	H8	3516	E11	5501	E11	T019	C2
1508	A2	2527	F10	3517	C11	5502	G4	T020	C2
1509	B2	2528	G10	3518	E9	5503	H4	T021	D2
1703	C1	2529	F11	3519	C9	6300	J16	T022	H2
1704	H14	2530	G10	3520	D12	6301	J17	T023	I2
1802	A1	2531	E10	3521	C12	6302	J17	T024	I2
1804	F1	2534	H9	3523	C12	6303	J16	T025	J2
2250	F17	2535	F9	3524	E12	6304	J11	T026	K1
2251	C16	2564	B4	3525	F7	6305	F16	T027	K1
2252	F17	2565	B5	3526	G7	6402	A9	T028	L1
2253	D16	2566	D5	3527	G7	6403	B11	T029	B9
2254	E17	2567	B6	3528	G8	6404	A10	T030	B12
2255	C16	2568	D6	3529	C4	6405	A12	T031	B11
2256	G14	2569	C6	3530	D4	6501	F6	T032	B13
2257	D14	2570	D5	3531	F9	6502	F7	T033	B4
2258	E14	2571	B7	3532	G9	7250	K13		
2259	C14	2572	D6	3533	F9	7251	J12		
2260	E13	2573	B8	3534	H9	7252	K11		
2261	C13	2574	D7	3535	F10	7253	F16		
2262	G16	2575	F11	3536	G10	7300a	C15		
2263	D16	2576	H11	3537	F10	7300b	F15		
2300	J16	2577	H2	3538	H10	7400	E13		
2301	J17	2578	H3	3539	F11	7401	C13		
2302	J17	3250	J13	3540	H11	7506	G8		
2303	J16	3251	J12	3541	G12	7507	F11		
2304	J17	3252	K12	3543	F11	7508	G11		
2305	L13	3253	L11	3544	H11	7513	B6		
2306	K12	3254	L12	3575	D5	7514	C6		



COMBI BOARD - LAYOUT DIAGRAM



1256	A4	1415	A6	2300	E7	2
1257	A4	1416	A6	2301	E7	2
1300	E7	1417	A6	2302	E7	2
1301	D5	1418	A7	2303	D7	2
1302	E7	1509	B2	2304	E7	2
1303	E6	1703	C7	2305	E4	2
1304	E7	1704	E4	2306	D4	2
1305	E4	1802	A1	2307	C4	2
1400	A6	1804	A7	2312	D3	2
1401	A6	2250	E3	2400	C2	2
1402	A6	2251	D3	2401	D2	2
1403	A6	2252	E2	2402	C2	2
1407	A6	2253	D2	2403	D2	2
1408	A6	2254	E2	2404	D2	2
1409	A6	2255	D2	2405	C2	2
1410	A6	2256	E1	2406	E1	2
1411	A6	2260	D1	2514	A5	2
1412	A6	2261	D1	2515	A5	2
1413	A6	2262	E2	2516	A3	2
1414	A6	2263	E3	2517	A3	2

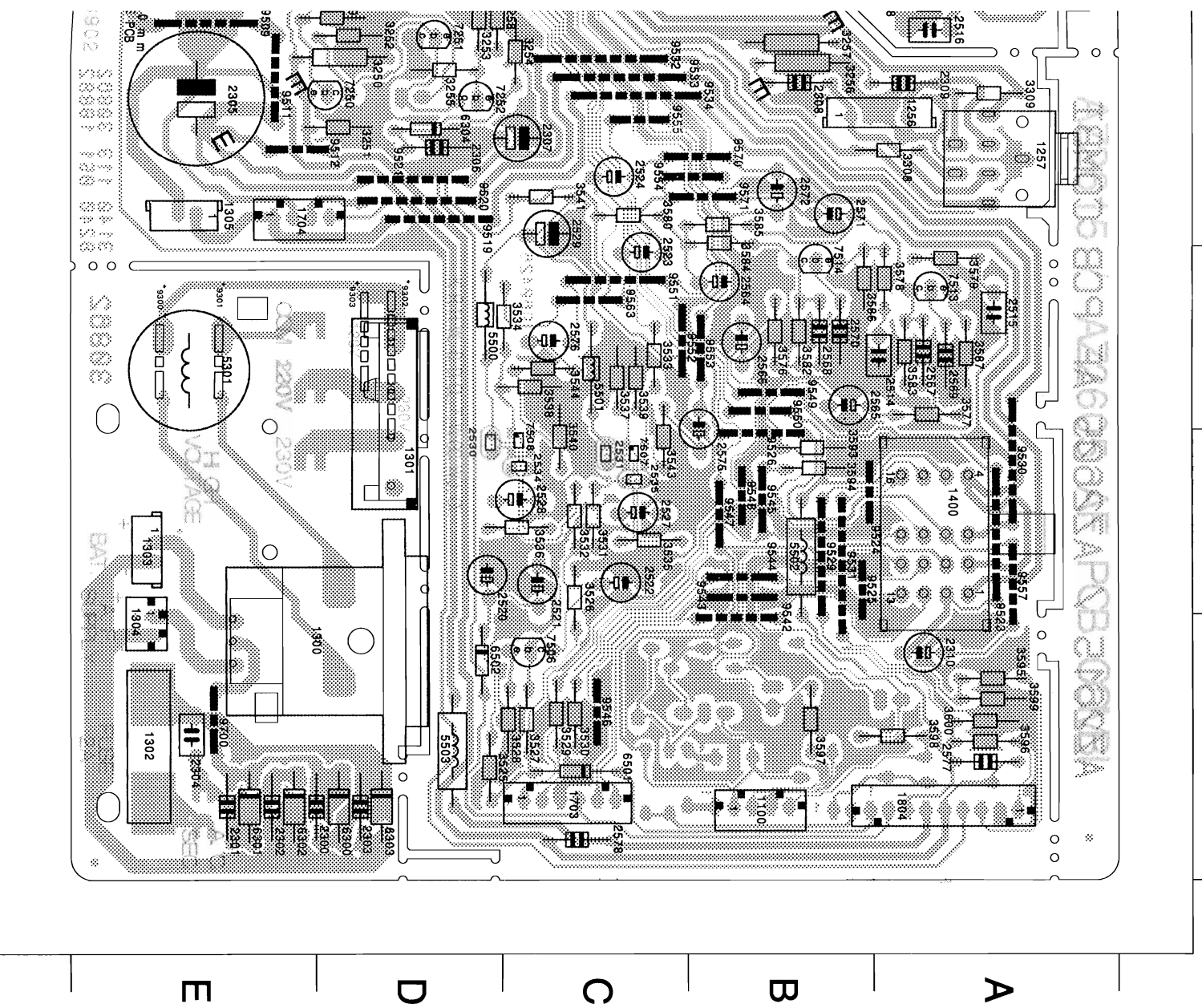
CASSETTE ADJUSTMEN

Adjustment	Cassette	SK
Azimuth	10KHZ	Taj
	SBC420*	Taj
Motor	3150Hz	
Speed	SBC420*	Taj

\* SBC420 : 4822 397 30071

\*\*a The maximum permissible s  
Moreover, the wow and flutter

\*9300 Not for version /01  
\*9301 Not for version /01  
\*9302 For version /00/05/10/14  
\*9303 For version /17



- 1256 A4 1415 A6 2300 E7 2521 C6 2576 C5 3405 D1 3539 C5 3599 A7 7506 C7 9526 B6 9553 B5
- 1257 A4 1416 A6 2301 E7 2522 C6 2577 A7 3406 D1 3540 C6 3600 A7 7507 C6 9529 B6 9554 B4
- 1300 E7 1417 A6 2302 E7 2523 C5 2578 C7 3407 C1 3541 C4 5301 E5 7508 C6 9530 A6 9555 C4
- 1301 D5 1418 A7 2303 D7 2524 C4 3250 D3 3408 E1 3543 C6 5500 D5 7513 A5 9531 B6 9557 A6
- 1302 E7 1509 B2 2304 E7 2527 C6 3254 C3 3516 A3 3544 C5 6300 D7 7514 B5 9532 C3 9561 D3
- 1303 E6 1703 C7 2305 C7 2528 C6 3255 D4 3517 A3 3576 B5 6301 E7 9500 A2 9533 C4 9563 C5
- 1304 E7 1704 E4 2306 D4 2529 C4 3256 B3 3518 A3 3577 A5 6302 E7 9501 A2 9534 C4 9564 A2
- 1305 E4 1802 A1 2307 C4 2530 D6 3257 B4 3519 A3 3578 A5 6303 D7 9507 B2 9535 D3 9565 C3
- 1400 A6 1804 A7 2312 D3 2531 C6 3258 D3 3524 C1 3579 A5 6304 D4 9511 E4 9537 C2 9566 C2
- 1401 A6 2250 E3 2400 C2 2534 C6 3259 D3 3525 D7 3580 C4 6305 E2 9512 E4 9538 C3 9567 C1
- 1402 A6 2251 D3 2401 D2 2535 C6 3302 E2 3526 C6 3582 B5 6402 C2 9513 B2 9539 C3 9570 B4
- 1403 A6 2252 E2 2402 C2 2564 B5 3303 D2 3527 C7 3583 A5 6403 D2 9514 B2 9540 C3 9571 B4
- 1407 A6 2253 D2 2403 D2 2568 B5 3304 E1 3528 C7 3587 A5 6404 C2 9515 B1 9545 B6 9700 B4
- 1408 A6 2254 E2 2404 D2 2569 A5 3305 E1 3529 C7 3592 C3 6405 E1 9516 B1 9546 C7
- 1409 A6 2255 D2 2405 C2 2570 B5 3306 E3 3530 C7 3593 B6 6501 C7 9517 B1 9547 B6
- 1409 A6 2256 E1 2406 E1 2571 B4 3307 E3 3531 C6 3594 B6 6502 D7 9518 B1 9548 B6
- 1411 A6 2260 D1 2514 A5 2572 B4 3401 D2 3532 C6 3595 A7 7253 E2 9519 D4 9549 B5
- 1412 A6 2261 D1 2515 A5 2573 C3 3402 D2 3533 C5 3596 A7 7300 E2 9520 D4 9550 B5
- 1413 A6 2262 E2 2516 A3 2574 C2 3403 D2 3534 C5 3597 B7 7400 C1 9521 D4 9551 C5
- 1414 A6 2263 E3 2517 A3 2575 B5 3404 C1 3535 C6 3598 A7 7401 C2 9522 C2 9552 C5

**CASSETTE ADJUSTMENT**

Adjustment	Cassette	Recorder position		Measure on	Read on	Adjust with	Adjust to
		SK ...	Deck 1				
Azimuth	10KHz SBC420*	Tape	Play	--	3758 H/P Jack	mV meter of P. head on Deck 1	max. output
Motor	3150Hz	Tape	Play	--	3758	mV meter of P. head on Deck 2	L = R
Speed	SBC420*	Tape	Play	--	3758	Wow and flutter meter	**a

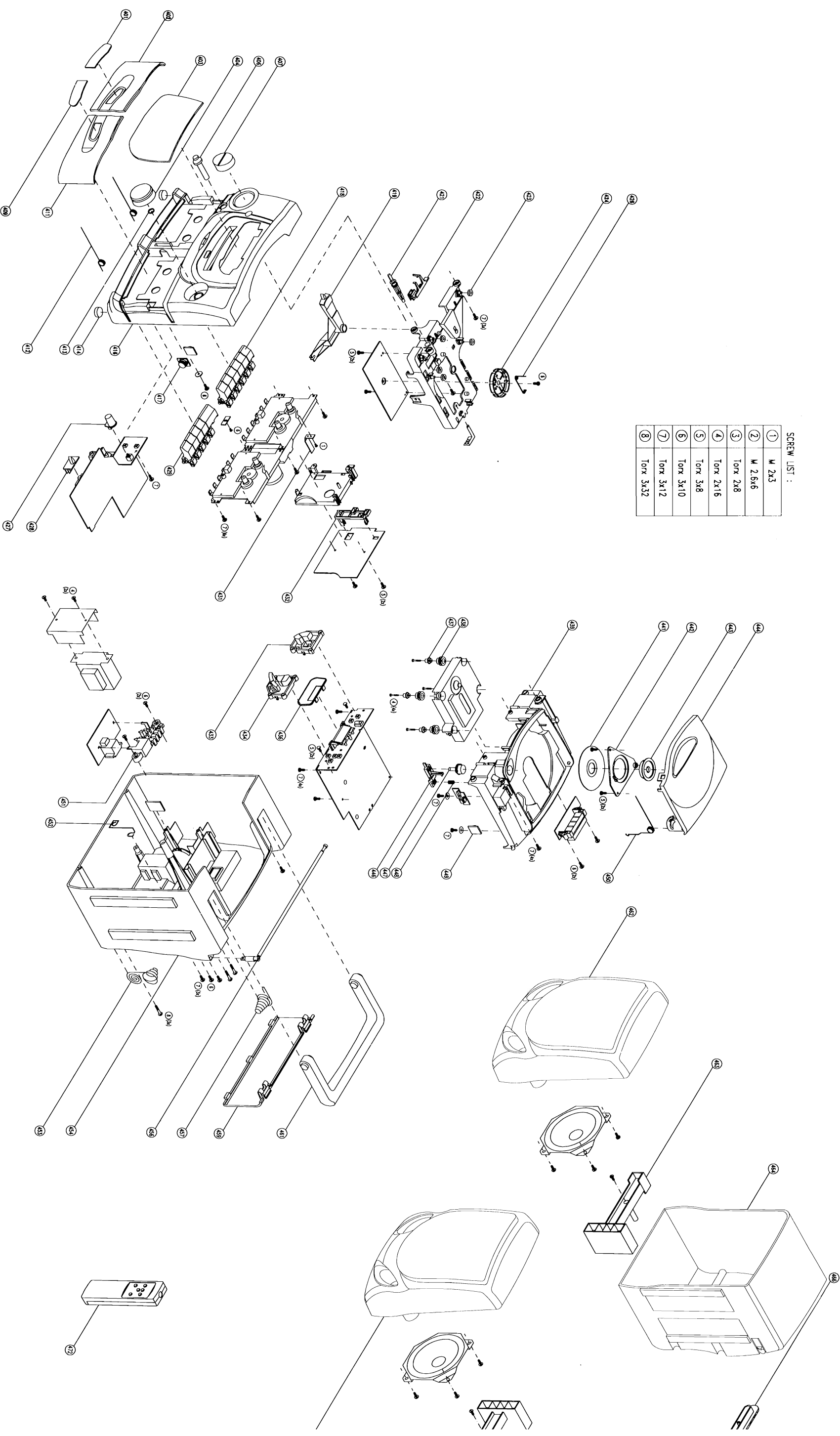
\* SBC420 : 4822 397 30071  
 \*\*a The maximum permissible speed deviation is ± 3%.  
 Moreover, the wow and flutter value can be read.



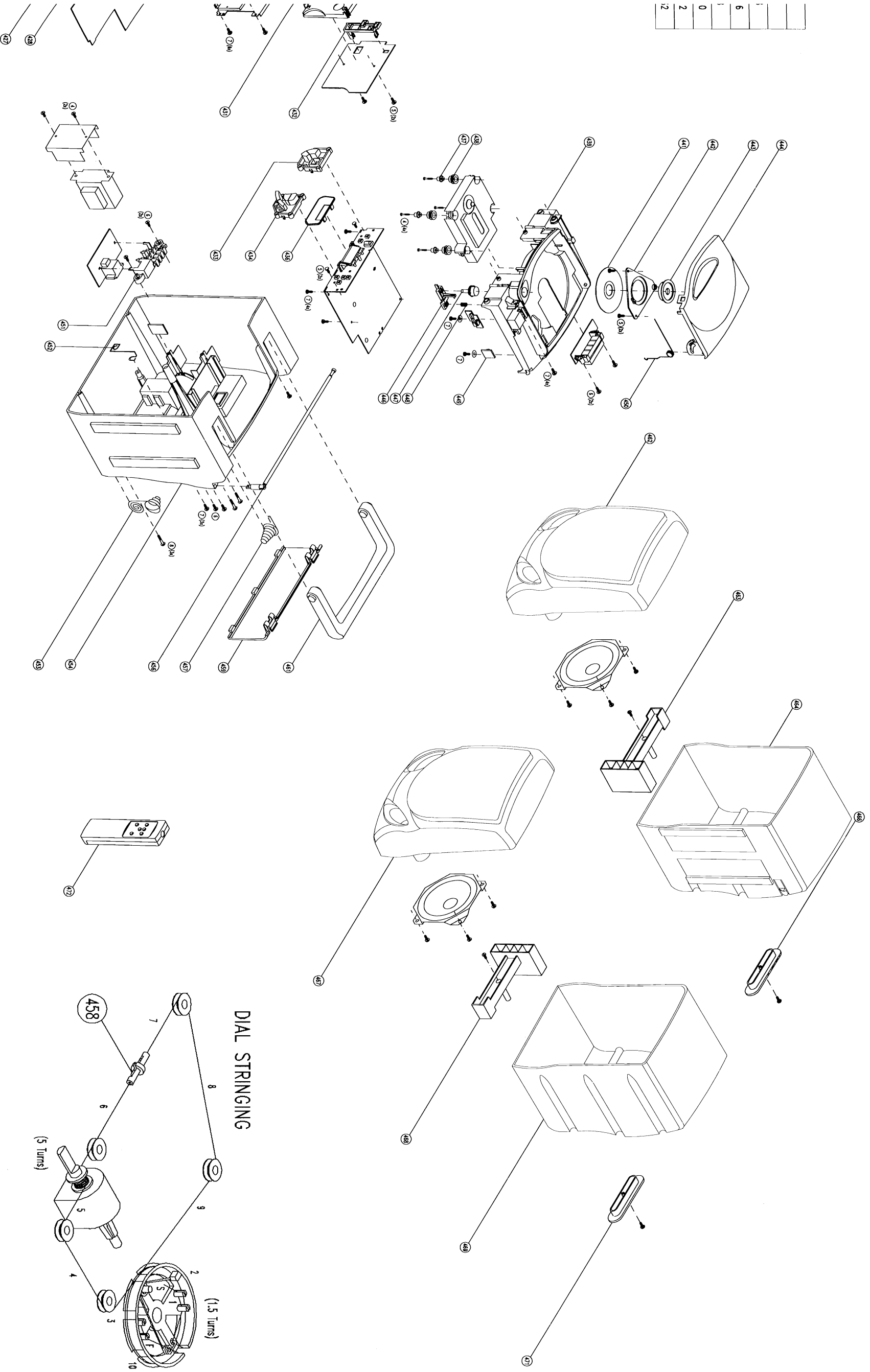
EXPLODED VIEW DIAGRAM - CABINET

SCREW LIST :

1	M 2x3
2	M 2.5x6
3	Torx 2x8
4	Torx 2x16
5	Torx 3x8
6	Torx 3x10
7	Torx 3x12
8	Torx 3x32



1	6
2	0
3	1
4	2
5	3
6	4
7	5
8	6
9	7
10	8
11	9
12	10



MECHANICAL PARTSLIST - CABINET

401	4822 381 11695	Lens Cassette (L)	444	4822 443 10181	Door CD
402	4822 443 10203	Door Cassette (L)	446	4822 402 10132	Lever Eject
403	4822 450 10144	Lens CD (For -/01)	447	4822 410 10267	Knob Open
403	4822 450 10153	Lens CD (For -/05)	448	4822 492 11058	Spring Eject
403	4822 450 10144	Lens CD (For -/10)	449	4822 529 10322	Damper Assy
403	4822 450 10145	Lens CD (For -/11)	450	4822 492 52332	Spring CD
403	4822 450 10146	Lens CD (For -/14)	451	4822 404 10881	Bracket Power
403	4822 450 10149	Lens CD (For -/17)	452	4822 492 11059	Spring Wire Aerial
404	4822 410 10321	Knob Tuning	453	4822 492 51733	Spring Compression
406	4822 410 10268	Knob Treble	454	4822 426 10192	Cabinet Rear
407	4822 410 10438	Knob Volume	456	4822 303 30298	Antenna Telescopic
409	4822 381 11696	Lens Cassette (R)	457	4822 492 51961	Spring Compression
411	4822 443 10204	Door Cassette (R)	458	4822 535 10254	Catch
412	4822 492 71143	Spring	459	4822 423 41266	Door Battery
413	4822 492 51374	Ring	461	4822 498 10515	Handle
414	4822 462 40683	Rubber Foot	462	4822 459 04085	Cabinet Speaker Front
416	4822 459 04148	Cabinet Front	463	4822 402 10131	Bracket Speaker
417	4822 529 10322	Damper Assy	464	4822 426 10081	Cabinet Speaker Rear (L)
418	4822 410 10299	Knob Cassette (L)	466	4822 402 10133	Cord Winder
419	4822 410 10322	Knob Band	467	4822 459 04085	Cabinet Speaker Front
421	4822 535 91958	Spindle	468	4822 402 10131	Bracket Speaker
422	4822 404 10886	Pointer	469	4822 426 10082	Cabinet Speaker Rear (R)
423	4822 528 80907	Pulley (x5)	471	4822 402 10133	Cord Winder
424	4822 528 40208	Drum	472	4822 218 10754	Remote Control
426	4822 492 40854	Torsion Spring		4822 321 10249	Mains Cord (For -/01/11)
427	4822 410 10269	Knob DBB		4822 321 10886	Mains Cord (For -/05/14)
428	4822 410 10264	Knob Mode		4822 321 10954	Mains Cord (For -/10)
429	4822 410 10301	Knob Cassette (R)		4822 321 10882	Mains Cord (For -/17)
433	4822 410 10266	Knob Set Mode		4822 736 14415	IFU (For -/01)
434	4822 410 10265	Knob Set Play		4822 736 14441	IFU (For -/05)
436	4822 381 11685	Window LCD		4822 736 14415	IFU (For -/10)
437	4822 532 61104	Distance Holder		4822 736 14415	IFU (For -/11)
438	4822 532 61103	Damper Rubber		4822 736 14428	IFU (For -/01/14)
441	4822 466 93464	Disc Plastic		4822 736 14416	IFU (For -/17)
443	4822 532 12412	Pressure Ring Assy			

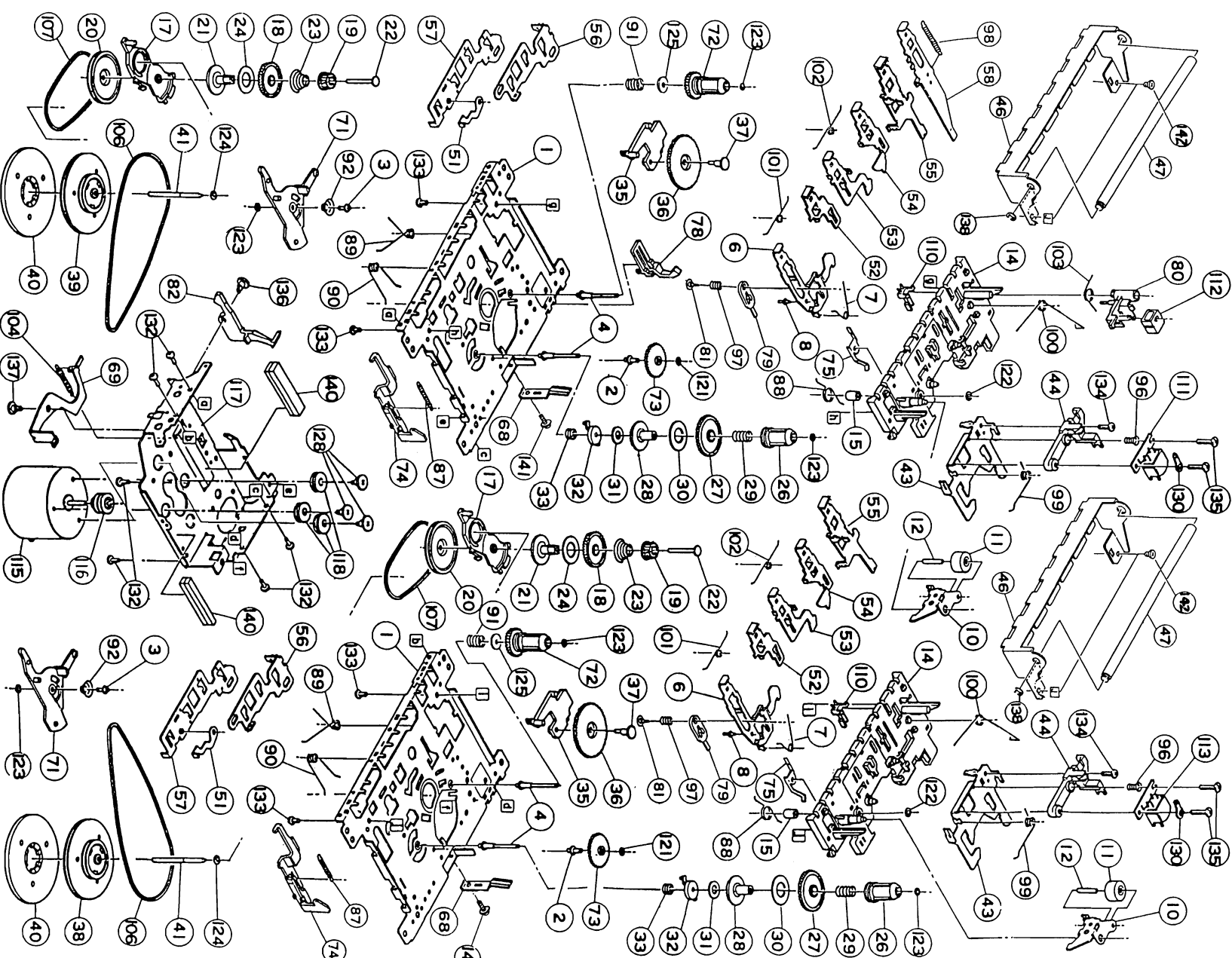
MECHANICAL PARTSLIST - TAPE DECK (4822 691 10481 CDS-83WP)

10	4822 528 70849	Pinch Roller Arm	116	4822 528 91493	Motor Pulley
11	4822 528 70695	Pinch Roller Assy		4822 691 10481	Tape Deck CDS-83WP
74	4822 403 30792	Eject Hook			
106	4822 358 31125	Main Belt			
107	4822 358 31124	Sub Belt			
110	4822 278 90663	Leaf Switch			
111	4822 249 30218	R/P Head			
112	4822 249 40306	Erase Head			
113	4822 249 30218	R/P Head			
115	4822 361 21592	Motor			

Note : Only those parts mentioned in the list are normal service parts.

EXPLODED VIEW DIAGRAM - TAPE DECK

CDS - 83 WPB



CASSETTE MTF-DD-S

2703	4822 124 41397	47µF 25V
2704	4822 124 41596	22µF 20% 50V
2705	4822 124 40246	4.7µF 20% 63V
2706	4822 124 41397	220µF 20% 10V
2708	4822 124 41397	220µF 20% 10V
2709	4822 124 80144	220µF 20% 25V
2710	4822 124 41397	47µF 20% 25V
2713	4822 124 80144	220µF 20% 25V
2714	4822 124 41397	47µF 20% 25V
2715	4822 124 41596	22µF 20% 50V
2716	4822 124 41596	22µF 20% 50V
2718	4822 124 41397	47µF 20% 25V
2719	4822 124 41397	47µF 20% 25V
2721	4822 126 11585	22NF +80-20% Y5V 25V
2722	4822 122 10577	3.3nF 10% 16V
2723	4822 121 51304	10nF 10% 50V
2727	4822 122 10577	3.3nF 10% 16V
2728	4822 121 51305	15nF 10% 50V
2729	4822 126 12787	330pF 10% Y5V 50V
2730	4822 121 43898	8.2nF 5% 250V
2731	4822 126 11585	22nF +80-20% Y5V 25V
2732	4822 126 11585	22nF +80-20% Y5V 25V
2733	4822 126 12339	2.2nF 10% Y5R
2734	5322 122 32311	470pF 10% 100V
2735	4822 121 51305	15nF 10% 50V
2736	4822 126 12787	330pF 10% Y5V 50V
2737	4822 121 43898	8.2nF 5% 250V
2738	4822 126 11585	22nF +80-20% Y5V 25V
2739	4822 122 33195	100pF 10% 50V
2740	4822 122 33197	1nF 10% 50V
2741	4822 122 33197	1nF 10% 50V
2742	4822 122 33195	100pF 10% 50V
2743	4822 126 12339	2.2nF 10% Y5R
2744	5322 122 32311	470pF 10% 100V
2745	4822 126 12339	2.2nF 10% Y5R
2746	5322 122 32311	470pF 10% 100V
2747	4822 121 51305	15nF 10% 50V
2748	4822 126 11585	22nF +80-20% Y5V 25V
2749	4822 126 12339	2.2nF 10% Y5R
2750	5322 122 32311	470pF 10% 100V

2751	4822 121 51305	15nF 10% 50V
2752	4822 122 10577	3.3nF 10% 16V
2759	4822 122 33519	470pF 10% 50V
2760	4822 122 33519	470pF 10% 50V
2761	4822 122 33169	680pF 10% 50V
2762	4822 122 33169	680pF 10% 50V
2763	4822 124 41584	100µF 20% 10V
3701	4822 116 83863	1K 5% 0.5W
3704	4822 116 52176	10R 5%
3705	4822 116 83863	1K 5%
3706	4822 111 30893	4M7 5% 0.2W
3707	4822 116 52176	10R 5% 0.5W
3708	4822 116 52297	68K 5%
3709	4822 116 52186	22R 5% 0.5W
3711	4822 116 52244	15K 5% 0.5W
3712	4822 116 52244	15K 5% 0.5W
3713	4822 116 52297	68K 5% 0.5W
3714	4822 116 52297	68K 5% 0.5W
3715	4822 116 52207	1K2 5% 0.5W
3716	4822 116 52303	8K2 5% 0.5W
3717	4822 116 52219	330R 5% 0.5W
3718	4822 116 83864	10K 5% 0.5W
3719	4822 116 52269	3K3 5% 0.5W
3720	4822 116 52269	3K3 5% 0.5W
3721	4822 116 52245	150K 5% 0.5W
3722	4822 116 83872	220R 5% 0.5W
3723	4822 116 52224	470R 5% 0.5W
3724	4822 116 52186	22R 5% 0.5W
3725	4822 116 52303	8K2 5% 0.5W
3726	4822 116 52207	1K2 5% 0.5W
3727	4822 116 52219	330R 5% 0.5W
3728	4822 116 83864	10K 5% 0.5W
3729	4822 116 52269	3K3 5% 0.5W
3730	4822 116 52269	3K3 5% 0.5W
3731	4822 116 52245	150K 5% 0.5W
3733	4822 116 52244	15K 5% 0.5W
3734	4822 116 52289	5K6 5% 0.5W

3736	4822 116 52244	15K 5% 0.5W
3737	4822 116 52245	150K 5% 0.5W
3738	4822 116 83872	220R 5% 0.5W
3739	4822 116 52224	470R 5% 0.5W
3740	4822 116 52283	4K7 5% 0.5W
3741	4822 116 52186	22R 5% 0.5W
3742	4822 116 52245	150K 5% 0.5W
3743	4822 116 83872	220R 5% 0.5W
3744	4822 116 52224	470R 5% 0.5W
3745	4822 116 52283	4K7 5% 0.5W
3746	4822 116 52186	22R 5% 0.5W
3747	4822 116 52289	5K6 5% 0.5W
3748	4822 116 83872	220R 5%
3749	4822 116 52245	150K 5% 0.5W
3750	4822 116 83872	220R 5% 0.5W
3751	4822 116 52224	470R 5% 0.5W
3752	4822 116 52186	22R 5% 0.5W
3753	4822 116 83872	220R 5%
3758	4822 100 20165	Potm Trim 500R
3759	4822 116 52176	10R 5% 0.5W
3760	4822 116 83864	10K 5% 0.5W
3780	4822 116 52245	150K 5% 0.5W
3781	4822 116 52224	470R 5% 0.5W
3782	4822 116 52224	470R 5% 0.5W
3783	4822 116 83864	10K 5% 0.5W
3784	4822 116 83864	10K 5% 0.5W
3787	4822 116 52191	33R 5% 0.5W
3788	4822 116 52256	2K2 5% 0.5W
3789	4822 116 52256	2K2 5% 0.5W
5701	4822 157 10371	Coil
6703	4822 130 30621	1N4148

CASSETTE MTF-DD-S

7704	4822 130 40981	BC337-25
7711	4822 209 32918	AN7318S
7712	4822 209 32918	AN7318S
7720	4822 130 44196	BC548C
7721	4822 130 44196	BC548C
- MISCELLANEOUS -		
1707	4822 277 11504	RSD-62D01N-1A

Note : Only those parts mentioned in the list are normal service parts.

COMBI BOARD

2250	4822 126 13678	470µF 10V	
2251	4822 126 13678	470µF 10V	
2252	5322 121 42661	330nF 5% 63V	
2253	5322 121 42661	330nF 5% 63V	
2254	4822 124 80196	47µF 20% 50V	
2255	4822 124 80196	47µF 20% 50V	
2256	4822 124 81136	100µF 25V	
2257	4822 124 81136	100µF 25V	
2258	5322 122 32052	680pF 10% 100V	
2259	5322 122 32052	680pF 10% 100V	
2260	4822 124 40242	1µF 20% 63V	
2261	4822 124 40242	1µF 20% 63V	
2262	4822 124 80144	220µF 20% 25V	
2263	4822 124 23794	470µF 20% 16V	
2300	4822 122 33197	1nF 10% 50V	
2301	4822 122 33197	1nF 10% 50V	
2302	4822 122 33197	1nF 10% 50V	
2303	4822 122 33197	1nF 10% 50V	
2304	4822 126 12938	100nF 80-20% 25V	
2305	4822 124 41458	4700µF 20% 16V	
2306	4822 126 11585	22nF +80-20% Y5V 25V	
2307	4822 126 13678	470µF 10V	
2308	4822 126 12785	47nF Y5VTUB 50V	
2309	4822 126 12785	47nF Y5VTUB 50V	
2310	4822 124 41576	2,2µF 20% 50V	
2312	4822 124 81136	100µF 25V	
2400	4822 126 11714	4,7nF 20%	
2401	4822 126 11714	4,7nF 20%	
2402	4822 126 11714	4,7nF 20%	
2403	4822 124 41596	22µF 20% 50V	
2404	4822 124 41596	22µF 20% 50V	
2405	4822 124 41596	22µF 20% 50V	
2406	4822 124 41596	22µF 20% 50V	
2514	5322 121 42386	100nF 5% 63V	
2515	5322 121 42386	100nF 5% 63V	
2516	5322 121 42386	100nF 5% 63V	
2517	5322 121 42386	100nF 5% 63V	
2518	4822 126 12878	1,5nF 10% 16V	
2519	4822 126 12878	1,5nF 10% 16V	
2520	4822 124 41397	47µF 20% 25V	



2521	4822 124 40248	10µF 20% 63V	
2522	4822 124 41397	47µF 20% 25V	
2523	4822 124 40242	1µF 20% 63V	
2524	4822 124 40242	1µF 20% 63V	
2527	4822 124 41584	100µF 20% 10V	
2528	4822 124 41584	100µF 20% 10V	
2529	4822 126 13678	470µF 10V	
2530	5322 122 32311	470pF 10% 100V	
2531	5322 122 32311	470pF 10% 100V	
2534	5322 122 32311	470pF 10% 100V	
2535	5322 122 32311	470pF 10% 100V	
2564	4822 124 81136	100µF 25V	
2565	4822 124 40246	4,7µF 20% 63V	
2566	4822 124 40246	4,7µF 20% 63V	
2567	4822 122 33195	100pF 10% 50V	
2568	4822 122 33195	100pF 10% 50V	
2569	4822 122 33197	1nF 10% 50V	
2570	4822 122 33197	1nF 10% 50V	
2571	4822 124 40242	1µF 20% 63V	
2572	4822 124 40242	1µF 20% 63V	
2573	4822 121 43526	47nF 5% 250V	
2574	4822 121 43526	47nF 5% 250V	
2575	4822 126 13581	0,22µF 20% 50V	
2576	4822 126 13581	0,22µF 20% 50V	
2577	4822 122 33195	100pF 10% 50V	
2578	4822 122 33195	100pF 10% 50V	

COMBI BOARD

3250	4822 052 10478	4R7 5% 0,33W	
3251	4822 116 52224	470R 5% 0,5W	
3252	4822 116 83863	1K 5% 0,5W	
3253	4822 116 52226	560R 5% 0,5W	
3254	4822 116 52222	390R 5% 0,5W	
3255	4822 116 52224	470R 5% 0,5W	
3256	4822 052 10228	2R20 5% 0,33W	
3257	4822 052 10228	2R20 5% 0,33W	
3258	4822 116 52269	3K3 5% 0,5W	
3259	4822 116 52256	2K2 5% 0,5W	
3302	4822 116 52175	100R 5% 0,5W	
3303	4822 116 52175	100R 5% 0,5W	
3304	4822 116 52224	470R 5% 0,5W	
3305	4822 116 52224	470R 5% 0,5W	
3306	4822 116 52289	5K6 5% 0,5W	
3307	4822 116 52303	8K2 5% 0,5W	
3308	4822 116 83868	150R 5% 0,5W	
3309	4822 116 83868	150R 5% 0,5W	
3310	4822 116 52191	33R 5% 0,5W	
3401	4822 116 52244	15K 5% 0,5W	
3402	4822 116 52244	15K 5% 0,5W	
3403	4822 116 52244	15K 5% 0,5W	
3404	4822 116 83864	10K 5% 0,5W	
3405	4822 116 83864	10K 5% 0,5W	
3406	4822 116 83864	10K 5% 0,5W	
3407	4822 116 83864	10K 5% 0,5W	
3408	4822 116 52244	15K 5% 0,5W	
3516	4822 116 52256	2K2 5% 0,5W	
3517	4822 116 52256	2K2 5% 0,5W	
3518	4822 116 52235	1M 5% 0,5W	
3519	4822 116 52235	1M 5% 0,5W	
3520	4822 116 52303	8K2 5% 0,5W	
3521	4822 116 52303	8K2 5% 0,5W	
3523	4822 116 52271	33K 5% 0,5W	
3524	4822 116 52271	33K 5% 0,5W	
3525	4822 116 52234	100K 5% 0,5W	
3526	4822 116 52245	100K 5% 0,5W	
3527	4822 116 52284	47K 5% 0,5W	
3528	4822 116 52256	2K2 5% 0,5W	
3529	4822 116 83863	1K 5% 0,5W	



3530	4822 116 83863	1K 5% 0,5W	
3531	4822 116 52256	2K2 5% 0,5W	
3532	4822 116 52256	2K2 5% 0,5W	
3533	4822 116 52289	5K6 5% 0,5W	
3534	4822 116 52289	5K6 5% 0,5W	
3535	4822 116 52224	470R 5% 0,5W	
3536	4822 116 52224	470R 5% 0,5W	
3537	4822 116 83864	10K 5% 0,5W	
3538	4822 116 83864	10K 5% 0,5W	
3539	4822 116 52276	3K9 5% 0,5W	
3540	4822 116 52276	3K9 5% 0,5W	
3541	4822 116 83872	220R 5% 0,5W	
3543	4822 116 52256	2K2 5% 0,5W	
3544	4822 116 52256	2K2 5% 0,5W	
3576	4822 116 52224	470R 5% 0,5W	
3577	4822 116 52224	470R 5% 0,5W	
3578	4822 116 52217	270R 5% 0,5W	
3579	4822 116 52217	270R 5% 0,5W	
3580	4822 116 83872	220R 5% 0,5W	
3582	4822 116 52285	470K 5% 0,5W	
3583	4822 116 52285	470K 5% 0,5W	
3584	4822 116 52289	3K3 5% 0,5W	
3585	4822 116 52289	3K3 5% 0,5W	
3586	4822 116 52228	680R 5% 0,5W	
3587	4822 116 52228	680R 5% 0,5W	
3592	4822 115 10161	50K 20% 50µW	
3593	4822 116 83864	10K 5% 0,5W	
3594	4822 116 83864	10K 5% 0,5W	
3595	4822 116 52286	6K8 5% 0,5W	
3596	4822 116 52286	6K8 5% 0,5W	
3597	4822 116 52276	3K9 5% 0,5W	
3598	4822 116 52276	3K9 5% 0,5W	
3599	4822 116 52283	4K7 5% 0,5W	
3600	4822 116 52283	4K7 5% 0,5W	

COMBI BC

5001		4x
5002		4x
5301		4x
5301		4x
5500		4x
5501		4x
5502		4x
5503		4x
6300		5x
6301		5x
6302		5x
6303		5x
6304		4x
6305		4x
6402		4x
6403		4x
6404		4x
6405		4x
6501		4x
6502		4x
7250		5x
7251		4x
7252		4x
7253		5x
7300		4x
7400		5x
7401		5x
7506		4x
7507		4x
7508		4x
7513		4x
7514		4x

COMBI BOARD

10µF 20% 63V	3250	4822 052 10478	4R7	5%	0,33W
17µF 20% 25V	3251	4822 116 52224	470R	5%	0,5W
1µF 20% 63V	3252	4822 116 83863	1K	5%	0,5W
1µF 20% 63V	3253	4822 116 52226	560R	5%	0,5W
100µF 20% 10V	3254	4822 116 52222	390R	5%	0,5W
100µF 20% 10V	3255	4822 116 52224	470R	5%	0,5W
170µF 10V	3256	4822 052 10228	2R20	5%	0,33W
170µF 10% 100V	3257	4822 052 10228	2R20	5%	0,33W
170µF 10% 100V	3258	4822 116 52269	3K3	5%	0,5W
170µF 10% 100V	3259	4822 116 52256	2K2	5%	0,5W
170µF 10% 100V	3302	4822 116 52175	100R	5%	0,5W
100µF 25V	3303	4822 116 52175	100R	5%	0,5W
1,7µF 20% 63V	3304	4822 116 52224	470R	5%	0,5W
1,7µF 20% 63V	3305	4822 116 52224	470R	5%	0,5W
100µF 10% 50V	3306	4822 116 52289	5K6	5%	0,5W
100µF 10% 50V	3307	4822 116 52303	8K2	5%	0,5W
nF 10% 50V	3308	4822 116 83868	150R	5%	0,5W
nF 10% 50V	3309	4822 116 83868	150R	5%	0,5W
µF 20% 63V	3310	4822 116 52191	33R	5%	0,5W
µF 20% 63V	3401	4822 116 52244	15K	5%	0,5W
17nF 5% 250V	3402	4822 116 52244	15K	5%	0,5W
17nF 5% 250V	3403	4822 116 52244	15K	5%	0,5W
1,22µF 20% 50V	3404	4822 116 83864	10K	5%	0,5W
1,22µF 20% 50V	3405	4822 116 83864	10K	5%	0,5W
100µF 10% 50V	3406	4822 116 83864	10K	5%	0,5W
100µF 10% 50V	3407	4822 116 83864	10K	5%	0,5W
	3408	4822 116 52244	15K	5%	0,5W
	3516	4822 116 52256	2K2	5%	0,5W
	3517	4822 116 52256	2K2	5%	0,5W
	3518	4822 116 52235	1M	5%	0,5W
	3519	4822 116 52235	1M	5%	0,5W
	3520	4822 116 52303	8K2	5%	0,5W
	3521	4822 116 52303	8K2	5%	0,5W
	3523	4822 116 52271	33K	5%	0,5W
	3524	4822 116 52271	33K	5%	0,5W
	3525	4822 116 52234	100K	5%	0,5W
	3526	4822 116 52245	100K	5%	0,5W
	3527	4822 116 52284	47K	5%	0,5W
	3528	4822 116 52256	2K2	5%	0,5W
	3529	4822 116 83863	1K	5%	0,5W

	3530	4822 116 83863	1K	5%	0,5W
	3531	4822 116 52256	2K2	5%	0,5W
	3532	4822 116 52256	2K2	5%	0,5W
	3533	4822 116 52289	5K6	5%	0,5W
	3534	4822 116 52289	5K6	5%	0,5W
	3535	4822 116 52224	470R	5%	0,5W
	3536	4822 116 52224	470R	5%	0,5W
	3537	4822 116 83864	10K	5%	0,5W
	3538	4822 116 83864	10K	5%	0,5W
	3539	4822 116 52276	3K9	5%	0,5W
	3540	4822 116 52276	3K9	5%	0,5W
	3541	4822 116 83872	220R	5%	0,5W
	3543	4822 116 52256	2K2	5%	0,5W
	3544	4822 116 52256	2K2	5%	0,5W
	3576	4822 116 52224	470R	5%	0,5W
	3577	4822 116 52224	470R	5%	0,5W
	3578	4822 116 52217	270R	5%	0,5W
	3579	4822 116 52217	270R	5%	0,5W
	3580	4822 116 83872	220R	5%	0,5W
	3582	4822 116 52285	470K	5%	0,5W
	3583	4822 116 52285	470K	5%	0,5W
	3584	4822 116 52269	3K3	5%	0,5W
	3585	4822 116 52269	3K3	5%	0,5W
	3586	4822 116 52228	680R	5%	0,5W
	3587	4822 116 52228	680R	5%	0,5W
	3592	4822 115 10161	50K	20%	50µW
	3593	4822 116 83864	10K	5%	0,5W
	3594	4822 116 83864	10K	5%	0,5W
	3595	4822 116 52296	6K8	5%	0,5W
	3596	4822 116 52296	6K8	5%	0,5W
	3597	4822 116 52276	3K9	5%	0,5W
	3598	4822 116 52276	3K9	5%	0,5W
	3599	4822 116 52283	4K7	5%	0,5W
	3600	4822 116 52283	4K7	5%	0,5W

COMBI BOARD

	5001	4822 240 10094	Loudspkr RD102 4R 2W5
	5002	4822 240 10094	Loudspkr RD102 4R 2W5
	5301	4822 157 71285	Coil 400µH 30%
	5301	4822 157 71285	Coil 400µH 30%
	5500	4822 156 21721	Coil
	5501	4822 156 21721	Coil
	5502	4822 157 51195	Coil 1µH 20%
	5503	4822 157 51195	Coil 1µH 20%
	6300	5322 130 30684	Diode1N4002
	6301	5322 130 30684	Diode1N4002
	6302	5322 130 30684	Diode1N4002
	6303	5322 130 30684	Diode1N4002
	6304	4822 130 32806	BZX79-F3V3
	6305	4822 130 30621	Diode 1N4148
	6402	4822 130 30621	Diode 1N4148
	6403	4822 130 30621	Diode 1N4148
	6404	4822 130 30621	Diode 1N4148
	6405	4822 130 30621	Diode 1N4148
	6501	4822 130 30621	Diode 1N4148
	6502	4822 130 30621	Diode 1N4148
	7250	5322 130 60068	Trans BC558C
	7251	4822 130 41327	Trans BC327-40
	7252	4822 130 44196	Trans BC548C
	7253	5322 130 60068	Trans BC558C
	7300	4822 209 31544	IC TA8227P
	7400	5322 130 44779	Trans BC338-40
	7401	5322 130 44779	Trans BC338-40
	7506	4822 130 44196	Trans BC548C
	7507	4822 130 61067	Trans XN1401
	7508	4822 130 61067	Trans XN1401
	7513	4822 130 44196	Trans BC548C
	7514	4822 130 44196	Trans BC548C

- MISCELLANEOUS -

1005	4822 146 10497	Transf (For -/01)
1005	4822 146 10397	Transf EL-54 (For -/11)
1005	4822 146 10414	Transf (For -/17)
1254	4822 267 31176	Connector
1257	4822 267 31468	Connector
1300	4822 265 20287	Connector (Not for -/17)
1300	4822 265 30986	Connector (For -/17)
1301	4822 272 10366	Switch (For -/01)
1301	4822 272 10366	Switch (For -/11)
1302	4822 070 32002	Fuse (2A)
1400	4822 277 30689	Switch
1503	4822 276 12648	Switch
1508	4822 276 13114	Switch
1509	4822 276 13114	Switch

Note : Only those parts mentioned in the list are normal service parts.

2800	4822 126 12882	100nF +80-20% 50V
2801	4822 124 40242	1µF 20% 63V
2802	4822 126 12882	100nF +80-20% 50V
2803	4822 121 43144	22nF 10% 50V
2804	4822 126 12339	2.2nF 10% Y5R
2805	4822 126 12882	100nF +80-20% 50V
2806	4822 122 10462	15pF 5% NPO
2807	4822 122 33848	47pF 5%SL 50V
2808	4822 124 41584	100µF 20% 10V
2809	4822 124 40246	4.7µF 20% 63V
2810	4822 124 40246	4.7µF 20% 63V
2811	4822 122 33197	1nF 10% 50V
2812	4822 122 33197	1nF 10% 50V
2813	4822 121 51387	10nF 20% 16V
2814	4822 122 33195	100pF 10% 50V
2815	4822 126 12882	100nF +80-20% 50V
2816	4822 126 13581	0.22µF 20% 50V
2817	4822 121 43144	22nF 10% 50V
2818	4822 124 40242	1µF 20% 63V
2819	5322 121 42386	100nF 5% 63V
2820	4822 126 13581	0.22µF 20% 50V
2821	4822 124 41576	2.2µF 20% 50V
2822	4822 126 12882	100nF +80-20% 50V
2823	4822 124 40246	4.7µF 20% 63V
2824	4822 124 40239	0.47µF 20% 63V
2825	4822 126 13677	39pF 5% 50V
2826	4822 124 40239	0.47µF 20% 63V
2827	4822 124 41397	47µF 20% 25V
2828	4822 124 40248	10µF 20% 63V
2829	4822 121 43144	22nF 10% 50V
2830	4822 122 10319	82pF 5% 50V
2831	4822 121 43144	22nF 10% 50V
2832	4822 124 41576	2.2µF 20% 50V
2833	4822 124 41397	47µF 20% 25V
2834	4822 126 11585	22nF +80-20% Y5V 25V
2835	4822 124 40239	0.47µF 20% 63V
2836	4822 124 40246	4.7µF 20% 63V
2837	4822 121 51387	10nF 20% 16V
2839	4822 121 51387	10nF 20% 16V
2840	4822 122 33519	470pF 10% 50V

2841	4822 122 33519	470pF 10% 50V
2842	4822 124 22225	330µF 20% 16V
2843	4822 124 41584	100µF 20% 10V
2844	4822 122 33195	100pF 10% 50V
2849	4822 122 33519	470pF 10% 50V
2851	4822 126 12882	100nF +80-20% 50V
2853	4822 122 33848	47pF 5%SL 50V
2854	4822 124 41972	4.7µF 20% 50V
2855	4822 122 33195	100pF 10% 50V
2857	4822 122 33519	470pF 10% 50V
2858	4822 121 51387	10nF 20% 16V
2859	4822 122 33519	470pF 10% 50V
2860	4822 122 33519	470pF 10% 50V
2862	4822 126 12882	100nF +80-20% 50V
2863	5322 122 32311	470pF 10% 100V
2864	5322 122 32311	470pF 10% 100V
3800	4822 116 52257	22K 5% 0.5W
3801	4822 116 52234	100K 5% 0.5W
3802	4822 052 10828	8R20 5% 0.33W
3804	4822 116 52224	470R 5% 0.5W
3808	4822 116 83863	1K 5% 0.5W
3809	4822 116 52289	5K6 5% 0.5W
3810	4822 116 52271	33K 5% 0.5W
3811	4822 116 52235	1M 5% 0.5W
3813	4822 116 83872	220R 5% 0.5W
3814	4822 116 52257	22K 5% 0.5W
3815	4822 116 52284	47K 5% 0.5W
3816	4822 116 52284	47K 5% 0.5W
3817	4822 116 83863	1K 5% 0.5W
3818	4822 116 83863	1K 5% 0.5W
3819	4822 116 52235	1M 5% 0.5W
3820	4822 116 52304	82K 5% 0.5W
3821	4822 116 52269	3K3 5% 0.5W
3822	4822 116 52291	56K 5% 0.5W
3823	4822 116 52244	15K 5% 0.5W
3824	4822 116 52199	68R 5% 0.5W

3825	4822 116 83882	39K 5% 0.5W
3826	4822 116 52303	8K2 5% 0.5W
3827	4822 116 52289	5K6 5% 0.5W
3828	4822 116 52244	15K 5% 0.5W
3829	4822 116 83882	39K 5% 0.5W
3830	4822 116 52296	6K8 5% 0.5W
3831	4822 116 52296	6K8 5% 0.5W
3832	4822 116 83864	10K 5% 0.5W
3833	4822 116 52257	22K 5% 0.5W
3834	4822 116 83868	150R 5% 0.5W
3835	4822 116 52184	18R 5% 0.5W
3836	4822 116 83863	1K 5% 0.5W
3837	4822 111 50499	3M3 5% 0.2W
3838	4822 116 52234	100K 5% 0.5W
3839	4822 117 11825	1M5 5%
3840	4822 116 83863	1K 5% 0.5W
3841	4822 116 52298	680K 5% 0.5W
3842	4822 116 52297	68K 5% 0.5W
3844	4822 116 52284	47K 5% 0.5W
3845	4822 116 83863	1K 5% 0.5W
3846	4822 116 83863	1K 5% 0.5W
3847	4822 116 52257	22K 5% 0.5W
3848	4822 116 52257	22K 5% 0.5W
3850	4822 116 52224	470R 5% 0.5W
3851	4822 116 52244	15K 5% 0.5W
3852	4822 116 52243	1K5 5% 0.5W
3853	4822 116 52238	12K 5% 0.5W
3854	4822 116 52243	1K5 5% 0.5W
3855	4822 116 52244	15K 5% 0.5W
3856	4822 116 52271	33K 5% 0.5W
3857	4822 116 52269	3K3 5% 0.5W
3858	4822 116 52175	100R 5% 0.5W
3859	4822 116 83864	10K 5% 0.5W
3860	4822 116 52289	5K6 5% 0.5W
3861	4822 116 52257	22K 5% 0.5W
3863	4822 116 52276	3K9 5% 0.5W
3864	4822 116 81753	4R7 5% 0.5W
3865	4822 052 10828	8R20 5% 0.33W
3867	4822 116 52256	2K2 5% 0.5W
3869	4822 116 52283	4K7 5% 0.5W

3870	4822 116 52257	22K 5% 0.5W
3871	4822 116 52257	22K 5% 0.5W
3872	4822 116 52257	22K 5% 0.5W
3873	4822 116 52257	22K 5% 0.5W
3875	4822 116 83864	10K 5% 0.5W
3880	4822 116 52202	82R 5% 0.5W
3881	4822 116 52257	22K 5% 0.5W
3882	4822 116 52243	1K5 5% 0.5W
3883	4822 116 52243	1K5 5% 0.5W
3884	4822 116 83882	39K 5% 0.5W
3885	4822 116 52257	22K 5% 0.5W
3886	4822 116 52235	1M 5% 0.5W
3887	4822 116 83863	1K 5% 0.5W
3888	4822 116 83863	1K 5% 0.5W
3889	4822 116 52257	22K 5% 0.5W
3890	4822 116 83863	1K 5% 0.5W
3891	4822 116 83863	1K 5% 0.5W
3892	4822 116 83863	1K 5% 0.5W
3893	4822 116 83863	1K 5% 0.5W
3894	4822 116 83863	1K 5% 0.5W
3899	4822 116 83863	1K 5% 0.5W
3900	4822 116 52283	4K7 5% 0.5W
3901	4822 116 52283	4K7 5% 0.5W
3902	4822 116 52283	4K7 5% 0.5W
3903	4822 116 52283	4K7 5% 0.5W
3904	4822 116 52283	4K7 5% 0.5W
3905	4822 116 52283	4K7 5% 0.5W
3906	4822 116 52283	4K7 5% 0.5W
3907	4822 116 52283	4K7 5% 0.5W
3908	4822 116 52283	4K7 5% 0.5W
3909	4822 116 52283	4K7 5% 0.5W
3910	4822 116 52283	4K7 5% 0.5W
3911	4822 116 52283	4K7 5% 0.5W
3914	4822 116 52283	4K7 5% 0.5W
3915	4822 116 52283	4K7 5% 0.5W
3916	4822 116 52256	2K2 5% 0.5W
3917	4822 116 52256	2K2 5% 0.5W
3920	4822 116 52283	4K7 5% 0.5W
3921	4822 116 52283	4K7 5% 0.5W
3922	4822 116 52283	4K7 5% 0.5W

3923	4822 116 52283	
3924	4822 116 52175	
3925	4822 116 52283	
3926	4822 116 52283	
3927	4822 116 52283	
3928	4822 116 52283	
3929	4822 116 83872	
3930	4822 116 52257	
3931	4822 116 83872	
3932	4822 116 52234	
3933	4822 116 52234	
3934	4822 116 52283	
3935	4822 116 52283	
3936	4822 116 52283	
3937	4822 116 52283	
3938	4822 116 52283	
3940	4822 116 52283	
3941	4822 116 52283	
3942	4822 116 52283	
3943	4822 116 52283	
3944	4822 116 52283	
3945	4822 116 52283	
3946	4822 116 52283	
3948	4822 116 83863	
3949	4822 116 83863	
3950	4822 116 83863	
3951	4822 116 83863	
3952	4822 116 52244	
3954	4822 116 83872	
3956	4822 116 52283	
3957	4822 116 52224	
5800	4822 242 81865	
5801	4822 242 73769	
5802	4822 157 53941	
5803	4822 156 21721	
5804	4822 156 21721	



CD6

50V	3825	4822 116 83862	39K	5%	0.5W
16V	3826	4822 116 52303	8K2	5%	0.5W
10V	3827	4822 116 52289	5K6	5%	0.5W
50V	3828	4822 116 52244	15K	5%	0.5W
50V	3829	4822 116 83862	39K	5%	0.5W
1/2 50V	3830	4822 116 52296	6K8	5%	0.5W
50V	3831	4822 116 52296	6K8	5%	0.5W
0V	3832	4822 116 83864	10K	5%	0.5W
50V	3833	4822 116 52257	22K	5%	0.5W
50V	3834	4822 116 83868	150R	5%	0.5W
5V	3835	4822 116 52184	18R	5%	0.5W
50V	3836	4822 116 83863	1K	5%	0.5W
50V	3837	4822 111 50499	3M3	5%	0.2W
1/2 50V	3838	4822 116 52234	100K	5%	0.5W
100V	3839	4822 117 11825	1M5	5%	
100V	3840	4822 116 83863	1K	5%	0.5W
	3841	4822 116 52298	680K	5%	0.5W
	3842	4822 116 52297	68K	5%	0.5W
	3844	4822 116 52284	47K	5%	0.5W
	3845	4822 116 83863	1K	5%	0.5W
N	3846	4822 116 83863	1K	5%	0.5W
5W	3847	4822 116 52257	22K	5%	0.5W
33W	3848	4822 116 52257	22K	5%	0.5W
1.5W	3850	4822 116 52224	470R	5%	0.5W
5W	3851	4822 116 52244	15K	5%	0.5W
5W	3852	4822 116 52243	1K5	5%	0.5W
5W	3853	4822 116 52238	12K	5%	0.5W
5W	3854	4822 116 52243	1K5	5%	0.5W
1.5W	3855	4822 116 52244	15K	5%	0.5W
5W	3856	4822 116 52271	33K	5%	0.5W
5W	3857	4822 116 52269	3K3	5%	0.5W
5W	3858	4822 116 52175	100R	5%	0.5W
W	3859	4822 116 83864	10K	5%	0.5W
W	3860	4822 116 52289	5K6	5%	0.5W
5W	3861	4822 116 52257	22K	5%	0.5W
5W	3863	4822 116 52276	3K9	5%	0.5W
5W	3864	4822 116 81753	4R7	5%	0.5W
5W	3865	4822 052 10828	8R20	5%	0.33W
5W	3867	4822 116 52256	2K2	5%	0.5W
5W	3869	4822 116 52283	4K7	5%	0.5W

	3870	4822 116 52257	22K	5%	0.5W
	3871	4822 116 52257	22K	5%	0.5W
	3872	4822 116 52257	22K	5%	0.5W
	3873	4822 116 52257	22K	5%	0.5W
	3875	4822 116 83864	10K	5%	0.5W
	3880	4822 116 52202	82R	5%	0.5W
	3881	4822 116 52257	22K	5%	0.5W
	3882	4822 116 52243	1K5	5%	0.5W
	3883	4822 116 52243	1K5	5%	0.5W
	3884	4822 116 83862	39K	5%	0.5W
	3885	4822 116 52257	22K	5%	0.5W
	3886	4822 116 52235	1M	5%	0.5W
	3887	4822 116 83863	1K	5%	0.5W
	3888	4822 116 83863	1K	5%	0.5W
	3889	4822 116 52257	22K	5%	0.5W
	3890	4822 116 83863	1K	5%	0.5W
	3891	4822 116 83863	1K	5%	0.5W
	3892	4822 116 83863	1K	5%	0.5W
	3893	4822 116 83863	1K	5%	0.5W
	3894	4822 116 83863	1K	5%	0.5W
	3899	4822 116 83863	1K	5%	0.5W
	3900	4822 116 52283	4K7	5%	0.5W
	3901	4822 116 52283	4K7	5%	0.5W
	3902	4822 116 52283	4K7	5%	0.5W
	3903	4822 116 52283	4K7	5%	0.5W
	3904	4822 116 52283	4K7	5%	0.5W
	3905	4822 116 52283	4K7	5%	0.5W
	3906	4822 116 52283	4K7	5%	0.5W
	3907	4822 116 52283	4K7	5%	0.5W
	3908	4822 116 52283	4K7	5%	0.5W
	3909	4822 116 52283	4K7	5%	0.5W
	3910	4822 116 52283	4K7	5%	0.5W
	3911	4822 116 52283	4K7	5%	0.5W
	3914	4822 116 52283	4K7	5%	0.5W
	3915	4822 116 52283	4K7	5%	0.5W
	3916	4822 116 52256	2K2	5%	0.5W
	3917	4822 116 52256	2K2	5%	0.5W
	3920	4822 116 52283	4K7	5%	0.5W
	3921	4822 116 52283	4K7	5%	0.5W
	3922	4822 116 52283	4K7	5%	0.5W

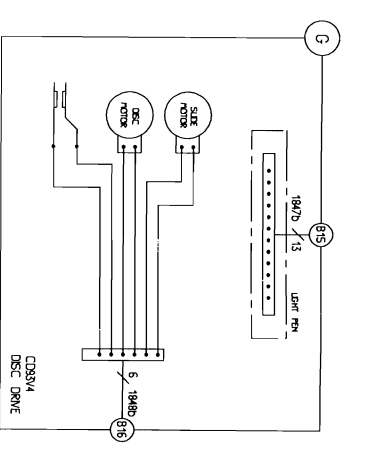
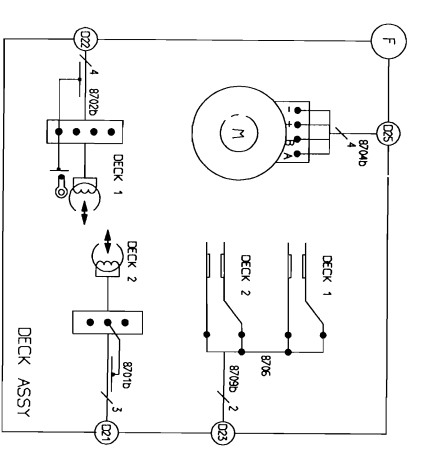
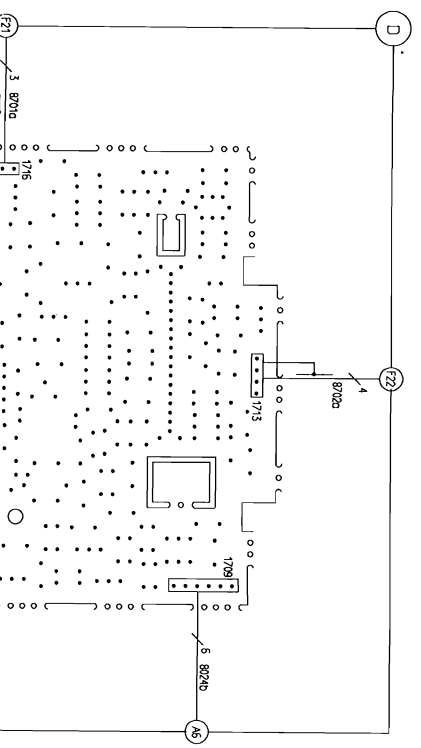
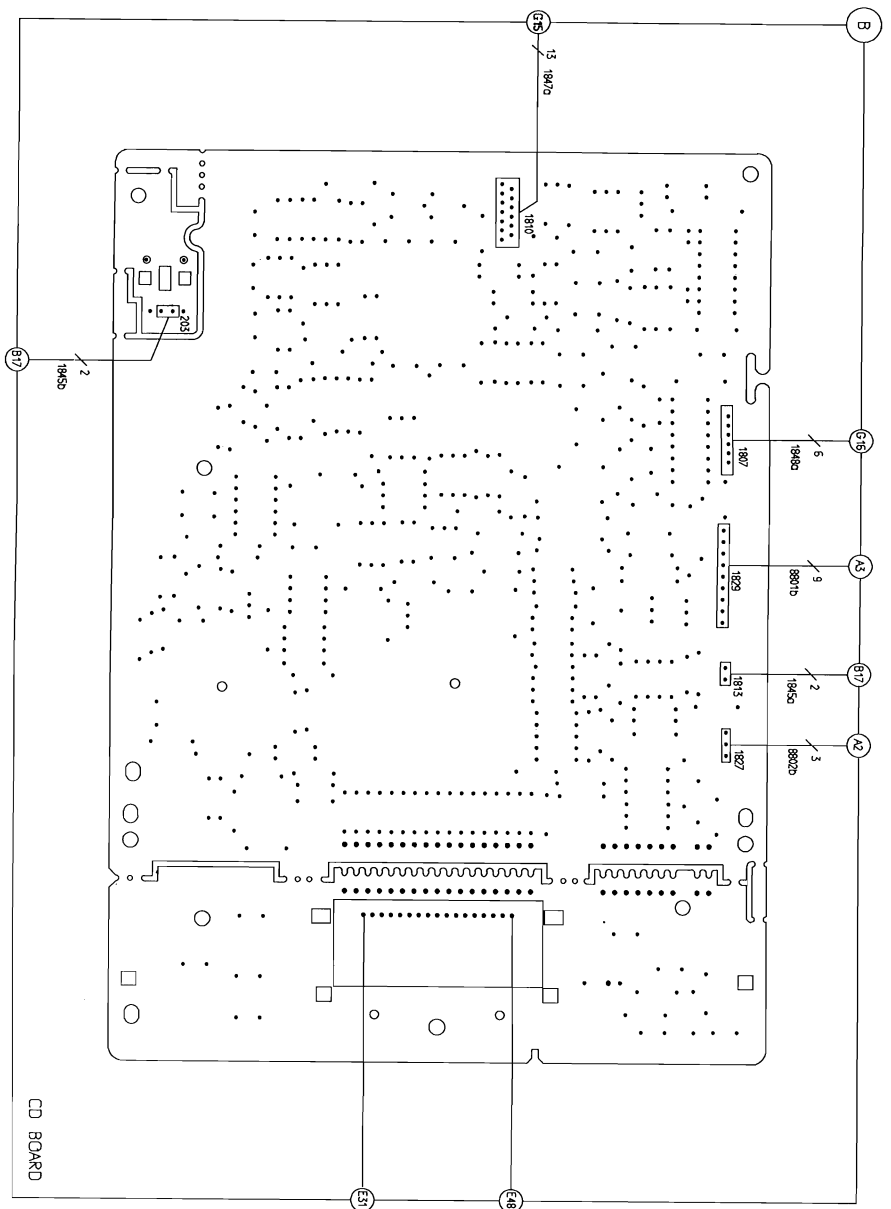
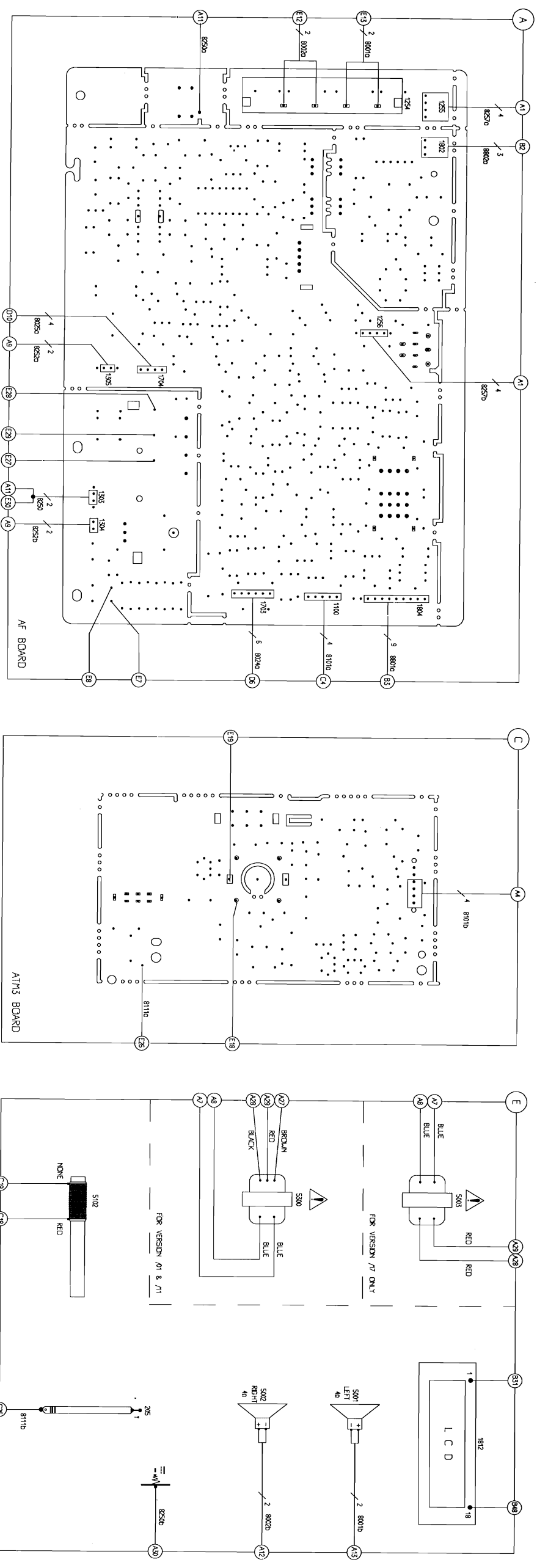
	3923	4822 116 52283	4K7	5%	0.5W
	3924	4822 116 52175	100R	5%	0.5W
	3925	4822 116 52283	4K7	5%	0.5W
	3926	4822 116 52283	4K7	5%	0.5W
	3927	4822 116 52283	4K7	5%	0.5W
	3928	4822 116 52283	4K7	5%	0.5W
	3929	4822 116 83872	220R	5%	0.5W
	3930	4822 116 52257	22K	5%	0.5W
	3931	4822 116 83872	220R	5%	0.5W
	3932	4822 116 52234	100K	5%	0.5W
	3933	4822 116 52234	100K	5%	0.5W
	3934	4822 116 52283	4K7	5%	0.5W
	3935	4822 116 52283	4K7	5%	0.5W
	3936	4822 116 52283	4K7	5%	0.5W
	3937	4822 116 52283	4K7	5%	0.5W
	3938	4822 116 52283	4K7	5%	0.5W
	3940	4822 116 52283	4K7	5%	0.5W
	3941	4822 116 52283	4K7	5%	0.5W
	3942	4822 116 52283	4K7	5%	0.5W
	3943	4822 116 52283	4K7	5%	0.5W
	3944	4822 116 52283	4K7	5%	0.5W
	3945	4822 116 52283	4K7	5%	0.5W
	3946	4822 116 52283	4K7	5%	0.5W
	3948	4822 116 83863	1K	5%	0.5W
	3949	4822 116 83863	1K	5%	0.5W
	3950	4822 116 83863	1K	5%	0.5W
	3951	4822 116 83863	1K	5%	0.5W
	3952	4822 116 52244	15K	5%	0.5W
	3954	4822 116 83872	220R	5%	0.5W
	3956	4822 116 52283	4K7	5%	0.5W
	3957	4822 116 52224	470R	5%	0.5W

5805	4822 526 10494	Ferrite Bead
5806	4822 156 21721	Coil
5807	4822 157 52333	Coil 100µH
6801	4822 130 30621	Diode 1N4148
6803	4822 130 31554	BZX79-F4V3
6806	4822 130 30621	Diode 1N4148
6807	4822 130 30621	Diode 1N4148
7800	4822 209 13596	TMP47C623F-AZ2605-R617
7801	4822 209 33339	IC SAA7345G/PS5
7802	4822 209 32421	IC TDA1311A/N2
7803	4822 209 90496	IC M62475FP
7804	5322 130 60068	BC558C
7805	4822 209 32852	IC TDA7073A/N2
7806	4822 209 32852	IC TDA7073A/N2
7807	4822 130 41344	Trans BC337-40
7810	4822 130 41344	Trans BC337-40
7811	4822 209 31508	IC ST24C01B1
7812	4822 212 30842	Sensor TFMS5360
7813	5322 209 11147	IC HEF4093BT
7814	4822 130 44196	Trans BC548C
<b>- MISCELLANEOUS -</b>		
1800	4822 276 13114	Switch
1801	4822 276 13114	Switch
1802	4822 276 13114	Switch
1803	4822 276 13114	Switch
1805	4822 276 13114	Switch
1806	4822 276 13114	Switch
1812	4822 130 91335	LCD Display
1832	4822 276 13625	Door Switch

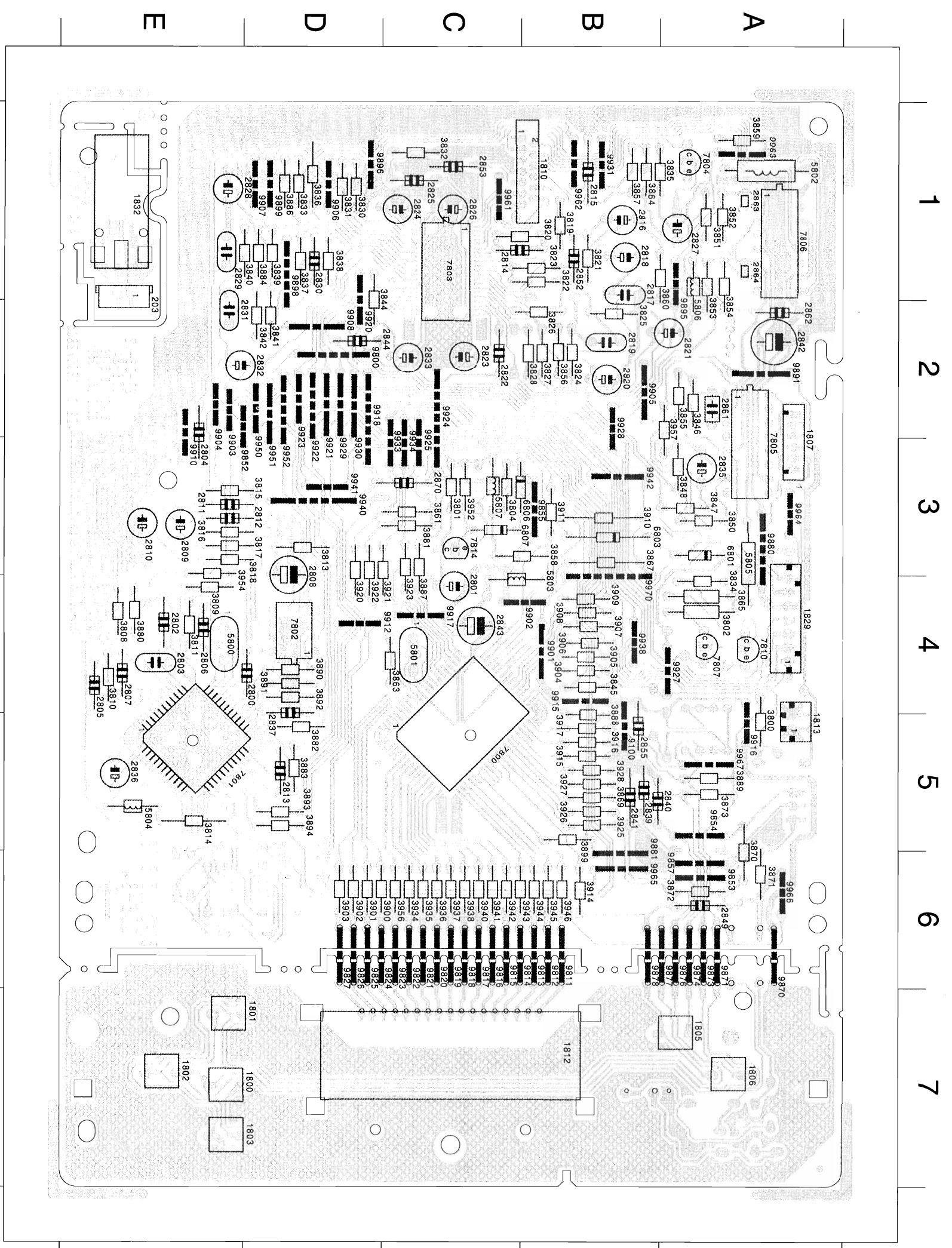
Note : Only those parts mentioned in the list are normal service parts.



# WIRING DIAGRAM

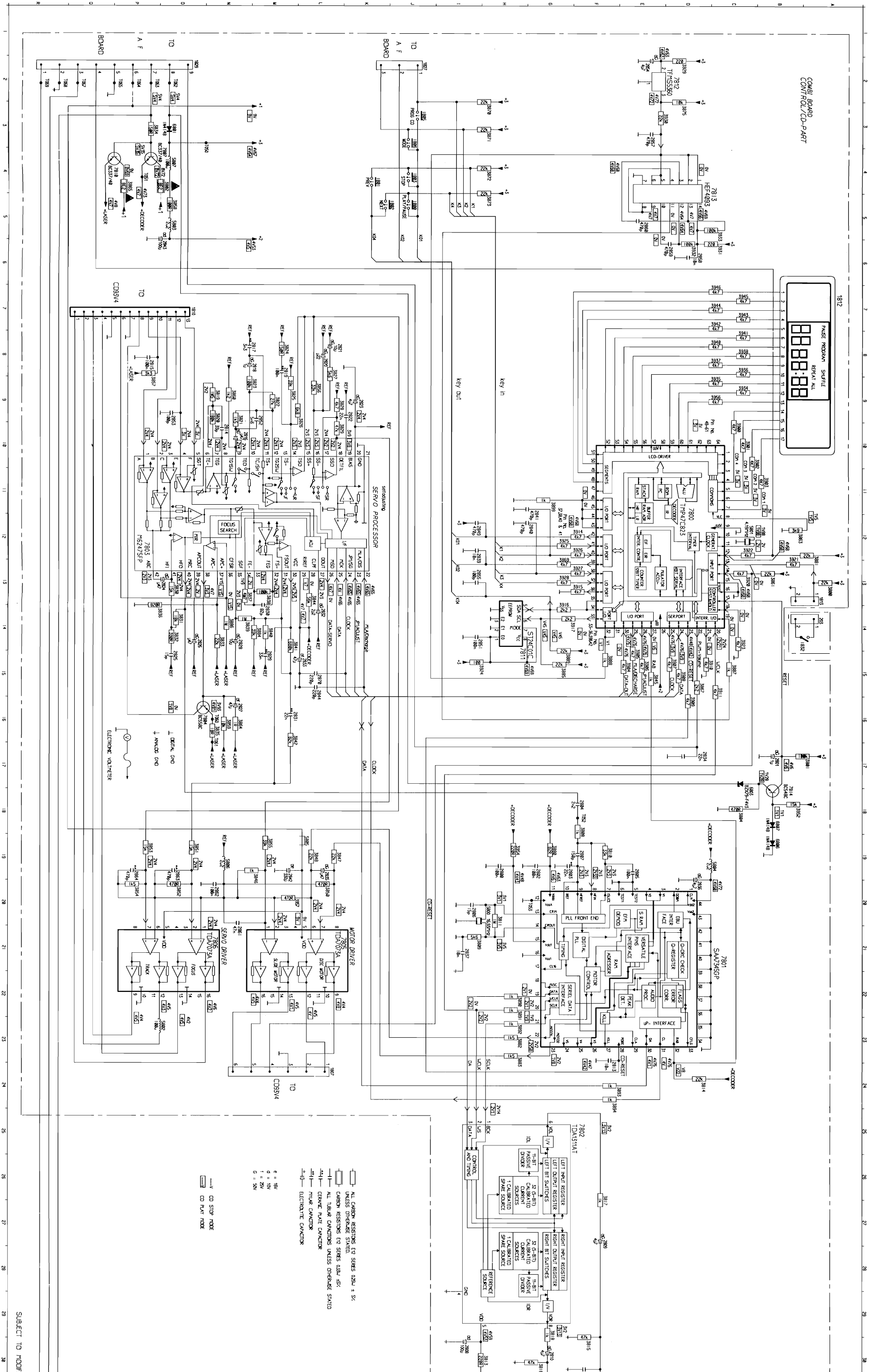


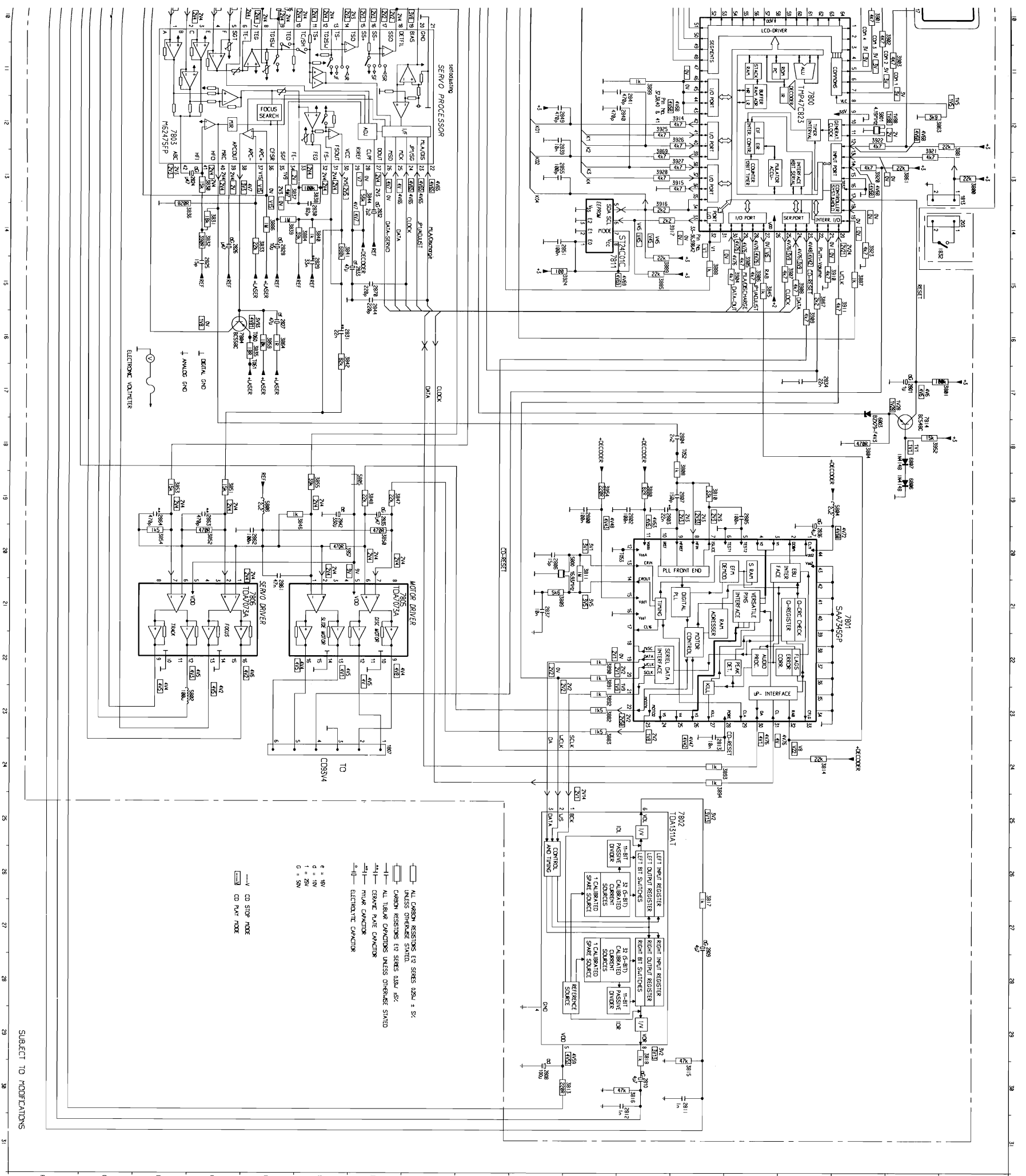
CD 6 - LAYOUT DIAGRAM



203	E 1	3802	A 4	3887	C 3	7806	A 1	9933	C 3
1800	E 7	3804	C 3	3888	B 5	7807	A 4	9934	C 3
1801	E 7	3808	E 4	3889	A 5	7810	A 4	9938	B 4
1802	E 7	3809	E 4	3890	D 4	7814	C 3	9940	D 3
1803	E 7	3810	E 4	3891	D 4	9100	B 5	9941	D 3
1805	A 7	3811	E 4	3892	D 4	9800	D 2	9942	B 3
1806	A 7	3813	D 3	3893	D 5	9811	B 6	9950	D 2
1807	A 3	3814	E 5	3894	D 5	9812	B 6	9951	D 2
1810	B 1	3815	E 3	3899	B 5	9813	B 6	9952	D 2
1812	C 7	3816	E 3	3900	D 6	9814	C 6	9961	C 1
1813	A 4	3817	E 3	3901	D 6	9815	C 6	9962	B 1
1829	A 4	3818	E 3	3902	D 6	9816	C 6	9963	A 1
1832	E 1	3819	B 1	3903	D 6	9817	C 6	9964	A 3
2800	D 4	3820	C 1	3904	B 4	9818	C 6	9965	B 6
2801	C 4	3821	B 1	3905	B 4	9819	C 6	9966	A 6
2802	E 4	3822	B 1	3906	B 4	9820	C 6	9967	A 5
2803	E 4	3823	B 1	3907	B 4	9821	C 6	9970	B 4
2804	E 2	3824	B 2	3908	B 4	9822	C 6		
2805	E 4	3825	B 2	3909	B 4	9823	C 6		
2806	E 4	3826	B 2	3910	B 3	9824	D 6		
2807	E 4	3827	B 2	3911	B 3	9825	D 6		
2808	D 3	3828	B 2	3914	B 6	9826	D 6		
2809	E 3	3830	D 1	3915	B 5	9827	D 6		
2810	E 3	3831	D 1	3916	B 5	9828	E 2		
2811	E 3	3832	C 1	3917	B 5	9853	A 6		
2812	E 3	3833	A 1	3920	D 3	9854	A 5		
2813	D 5	3834	A 4	3921	C 3	9855	B 4		
2814	C 1	3835	B 1	3922	D 3	9857	A 6		
2815	B 1	3836	D 1	3923	C 3	9870	A 6		
2816	B 1	3837	D 1	3925	B 5	9871	A 6		
2817	B 1	3838	D 1	3926	B 5	9873	A 6		
2818	B 1	3839	D 1	3927	B 5	9874	A 6		
2819	B 2	3840	D 1	3928	B 5	9876	A 6		
2820	B 2	3841	D 2	3934	C 6	9877	A 6		
2821	A 2	3842	D 2	3935	C 6	9878	B 6		
2822	C 2	3844	D 1	3936	C 6	9880	A 4		
2823	C 2	3845	B 4	3937	C 6	9881	B 6		
2824	C 1	3846	A 2	3938	C 6	9891	A 2		
2825	C 1	3847	A 3	3940	C 6	9895	A 1		
2826	C 1	3848	A 3	3941	C 6	9896	D 1		
2827	A 1	3850	A 3	3942	C 6	9898	D 1		
2828	E 1	3851	A 1	3943	C 6	9899	D 1		
2829	E 1	3852	A 1	3944	B 6	9901	B 4		
2830	D 1	3853	A 1	3945	B 6	9902	B 4		
2831	E 2	3854	A 1	3946	B 6	9903	E 2		
2832	E 2	3855	A 2	3952	C 3	9904	E 2		
2833	C 2	3856	B 2	3954	E 3	9905	B 2		
2835	A 3	3857	B 1	3956	C 6	9906	D 1		
2836	E 5	3858	B 3	3957	A 2	9907	D 1		
2837	D 4	3859	A 1	5800	E 4	9908	D 2		
2839	B 5	3860	A 1	5801	C 4	9910	E 2		
2840	B 5	3861	C 3	5802	A 1	9912	D 4		
2841	B 5	3863	C 4	5803	C 4	9915	B 4		
2842	A 2	3864	B 1	5804	E 5	9916	A 5		
2843	C 4	3865	A 4	5805	A 3	9917	C 4		
2844	D 2	3867	B 3	5806	A 1	9918	D 2		
2849	D 6	3869	B 5	5807	C 3	9920	D 1		
2852	B 1	3870	A 6	6801	A 3	9921	D 2		
2853	C 1	3871	A 6	6803	B 3	9922	D 2		
2855	B 5	3872	A 6	6806	C 3	9923	D 2		
2861	A 2	3873	A 5	6807	C 3	9924	C 2		
2862	A 2	3880	E 4	7800	C 5	9925	C 3		
2863	A 1	3881	C 3	7801	E 5	9927	A 4		
2864	A 1	3882	D 5	7802	D 4	9928	B 2		
2870	C 3	3883	D 5	7803	C 1	9929	D 2		
3800	A 5	3884	D 1	7804	A 1	9930	D 2		
3801	C 3	3886	D 1	7805	A 3	9931	B 1		

CD 6 - CIRCUIT DIAGRAM

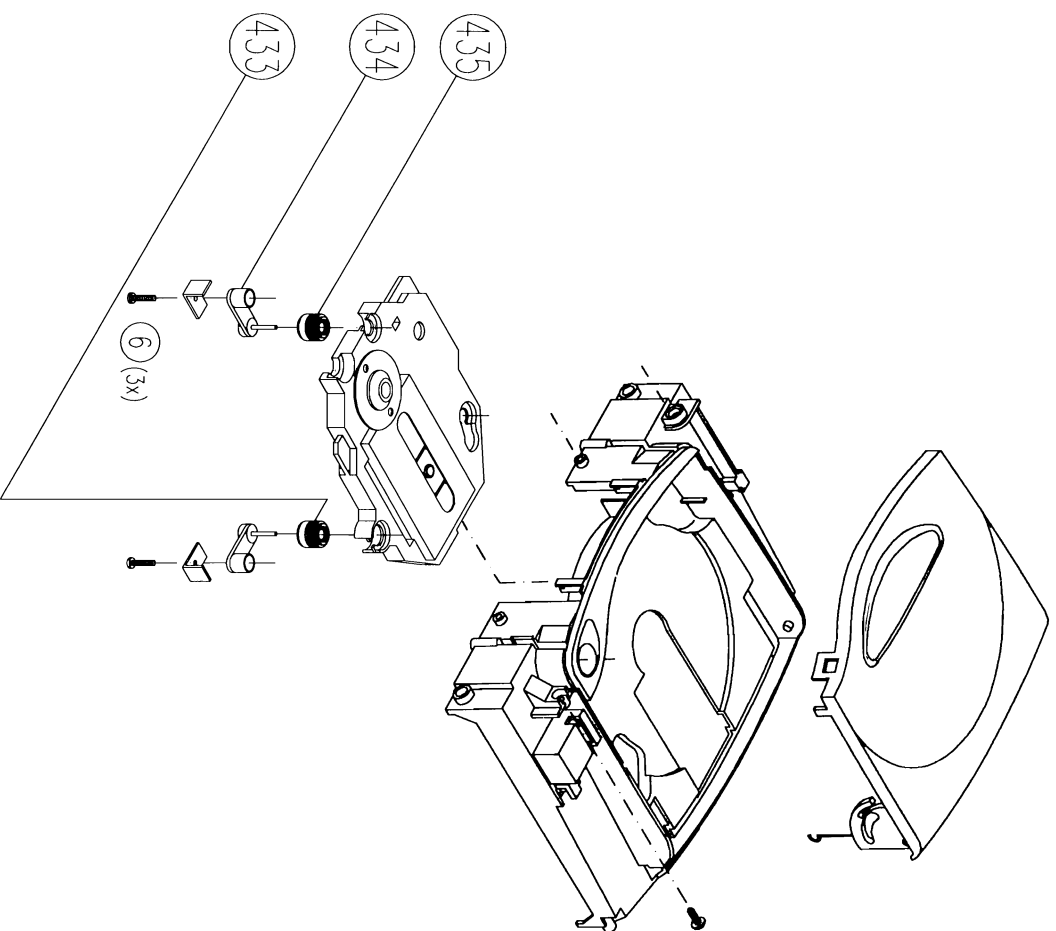




SUBJECT TO MODIFICATIONS

203	A14	2840	G12	3838	M13	3905	E15	7800	D11
1800	J5	2841	G12	3839	N14	3906	E15	7801	C21
1801	K4	2842	M19	3840	M14	3907	D15	7802	F25
1802	J5	2843	O6	3841	M14	3908	D15	7803	P12
1803	J4	2844	L15	3842	M16	3909	D16	7804	O16
1805	J3	2849	I12	3844	L13	3910	D15	7805	L21
1806	J3	2851	I14	3845	E15	3911	C15	7806	N21
1807	L24	2852	M9	3846	M19	3914	F12	7807	O4
1810	O7	2853	O9	3847	L19	3915	F13	7810	P4
1812	A7	2854	E2	3848	L19	3916	G14	7811	H14
1813	A13	2855	I13	3850	L20	3917	G14	7812	D2
1827	J2	2857	E3	3851	O19	3920	C13	7813	C4
1829	O2	2858	D6	3852	O20	3921	B13	7814	B18
1832	A14	2859	D6	3853	P19	3922	C12	7850	O4
2800	H19	2860	E5	3854	P20	3923	C14	7805	P4
2801	B17	2861	N21	3855	M19	3924	I15	7805	F18
2802	G19	2862	N20	3856	L9	3925	G12	7805	G20
2803	G19	2863	O19	3857	P9	3926	F12	7806	N16
2804	F18	2864	P19	3858	O5	3927	F13	7806	N16
2805	E19	2870	L15	3859	N16	3928	G13	7802	O2
2806	I20	2800	A13	3860	N9	3929	D2	7803	P2
2807	F19	2801	A17	3861	B13	3930	E3	7804	P2
2808	I30	2802	O4	3863	B12	3931	C6	7805	P2
2809	F27	2804	C18	3864	N16	3932	D6	7807	Q2
2810	G30	2808	F18	3865	P4	3933	C5	7808	R2
2811	F30	2809	I21	3867	D15	3934	C9		
2812	G30	2810	F19	3869	G13	3935	C9		
2813	F24	2811	H20	3870	H3	3936	C8		
2814	N10	2813	H30	3871	H3	3937	C8		
2815	P8	2814	D24	3872	H4	3938	C8		
2816	N10	2815	F30	3873	H5	3940	C8		
2817	M8	2816	G30	3875	D3	3941	C8		
2818	M8	2817	F27	3880	G19	3942	C7		
2819	M8	2818	G29	3881	A13	3943	C7		
2820	L8	2819	N9	3882	H23	3944	C7		
2821	L8	2820	N9	3883	H23	3945	C7		
2822	K9	2821	N9	3884	M14	3946	C7		
2823	K9	2822	M9	3885	G15	3952	B18		
2824	O13	2823	M9	3886	N14	3954	H19		
2825	O15	2824	M8	3887	C15	3956	C9		
2826	O14	2825	M9	3888	F15	3957	M20		
2827	N16	2826	L10	3889	G15	5800	H20		
2828	N14	2827	L8	3890	H22	5801	C12		
2829	M15	2828	L9	3891	H22	5802	O23		
2830	M14	2829	L10	3892	H23	5803	O5		
2831	M16	2830	O13	3893	F24	5804	C19		
2832	L14	2831	O14	3894	F24	5805	L19		
2833	L15	2832	O14	3899	G11	5806	N19		
2834	D17	2833	N14	3900	C10	5807	O4		
2835	L19	2834	P3	3901	C10	6801	O3		
2836	D20	2835	N16	3902	C10	6803	C18		
2837	I21	2836	P14	3903	B11	6806	B19		
2839	I12	2837	N13	3904	E15	6807	B18		

EXPLODED VIEW DIAGRAM - CD MECHANISM



**MECHANICAL PARTSLIST - CD 6**

434	4822 256 10255	CD Drive Holder
433	4822 529 10354	Shock Absorber
435	4822 529 10355	Shock Absorber
	4822 691 10535	CD Drive CD93

Note : Only those parts mentioned in the list are normal service parts.

**CD 6**

2800	4822 126 12882	100nF +80-20% 50V
2801	4822 124 40242	1µF 20% 63V
2802	4822 126 12882	100nF +80-20% 50V
2803	4822 121 43144	22nF 10% 50V
2804	4822 126 12339	2.2nF 10% Y5R
2805	4822 126 12882	100nF +80-20% 50V
2806	4822 122 10462	15pF 5% NP0
2807	4822 122 33849	150pF 10% Y5P 50V
2808	4822 124 42446	100µF 20% 10V
2809	4822 124 40246	4.7µF 20% 63V
2810	4822 124 40246	4.7µF 20% 63V
2811	4822 122 33197	1nF 10% 50V
2812	4822 122 33197	1nF 10% 50V
2813	4822 121 51387	10nF 20% 16V
2814	4822 126 13677	39pF 5% 50V
2815	4822 126 12882	100nF +80-20% 50V
2816	4822 124 40239	0.47µF 20% 63V
2817	4822 121 42687	3.3nF 10% 63V
2818	4822 124 40242	1µF 20% 63V
2819	5322 121 42386	100nF 5% 63V
2820	4822 126 13581	0.22µF 20% 50V
2821	4822 124 40248	10µF 20% 63V
2822	4822 126 11585	22nF +80-20% Y5V 25V
2823	4822 124 40246	4.7µF 20% 63V
2824	4822 124 40239	0.47µF 20% 63V
2825	4822 122 10462	15pF 5% NP0
2826	4822 124 40239	0.47µF 20% 63V
2827	4822 124 11958	47µF 20% 25V
2828	4822 124 40248	10µF 20% 63V
2829	4822 121 43145	33nF 10% 50V
2830	4822 122 10319	82pF 5% 50V
2831	4822 121 43144	22nF 10% 50V
2832	4822 124 41576	2.2µF 20% 50V
2833	4822 124 11958	47µF 20% 25V
2834	4822 126 11585	22nF +80-20% Y5V 25V
2835	4822 124 40239	0.47µF 20% 63V
2836	4822 124 40246	4.7µF 20% 63V
2837	4822 121 51387	10nF 20% 16V
2839	4822 121 51387	10nF 20% 16V
2840	4822 122 33519	470pF 10% 50V

**CD 6**

2841	4822 122 33519	470pF 10% 50V
2842	4822 124 22225	330µF 20% 16V
2843	4822 124 11959	100µF 20% 10V
2844	4822 122 10466	220pF 10% 50V
2849	4822 122 33519	470pF 10% 50V
2851	4822 126 12882	100nF +80-20% 50V
2852	4822 126 13098	5.6nF 20% 16V
2853	4822 122 33195	100pF 10% 50V
2854	4822 124 41972	4.7µF 20% 50V
2855	4822 122 33195	100pF 10% 50V
2857	4822 122 33519	470pF 10% 50V
2858	4822 121 51387	10nF 20% 16V
2859	4822 122 33519	470pF 10% 50V
2860	4822 122 33519	470pF 10% 50V
2861	4822 122 33449	47nF 30% 50V
2862	4822 126 12882	100nF +80-20% 50V
2863	5322 122 32311	470pF 10% 100V
2864	5322 122 32311	470pF 10% 100V
2870	4822 122 10466	220pF 10% 50V
3800	4822 116 52257	22K 5% 0.5W
3801	4822 116 52234	100K 5% 0.5W
3802	4822 052 10828	8R2 5% 0.33W
3804	4822 116 83883	470R 5% 0.5W
3808	4822 116 83863	1K 5% 0.5W
3809	4822 116 52289	5K6 5% 0.5W
3810	4822 116 52271	33K 5% 0.5W
3811	4822 116 52235	1M 5% 0.5W
3813	4822 116 83872	220R 5% 0.5W
3814	4822 116 52257	22K 5% 0.5W
3815	4822 116 83884	47K 5% 0.5W
3816	4822 116 83884	47K 5% 0.5W
3817	4822 116 83863	1K 5% 0.5W
3818	4822 116 83863	1K 5% 0.5W
3819	4822 117 11825	1M5 5%
3820	4822 116 52252	180K 5% 0.5W
3821	4822 116 52243	1K5 5% 0.5W
3822	4822 116 52264	27K 5% 0.5W
3823	4822 116 52234	100K 5% 0.5W
3824	4822 116 83868	150R 5% 0.5W
3825	4822 116 83882	
3826	4822 116 83961	
3827	4822 116 52289	
3828	4822 116 52283	
3829	4822 116 83884	
3830	4822 116 52244	
3831	4822 116 52251	
3832	4822 116 52222	
3833	4822 116 52257	
3834	4822 116 83868	
3835	4822 116 52184	
3836	4822 116 52231	
3837	4822 111 30893	
3838	4822 116 52234	
3839	4822 116 52235	
3840	4822 116 83863	
3841	4822 116 52298	
3842	4822 116 52304	
3844	4822 116 52291	
3845	4822 116 83363	
3846	4822 116 83863	
3847	4822 116 52257	
3848	4822 116 52257	
3850	4822 116 83883	
3851	4822 116 52244	
3852	4822 116 83883	
3853	4822 116 52244	
3854	4822 116 52243	
3855	4822 116 83882	
3856	4822 116 52271	
3857	4822 116 52269	
3858	4822 116 52175	
3859	4822 116 83864	
3860	4822 116 52207	
3861	4822 116 52257	
3863	4822 116 52276	
3864	4822 116 80176	
3865	4822 052 10828	
3867	4822 116 52256	
3867	4822 116 52283	

		II	
2800	4822 126 12882	100nF +80-20% 50V	
2801	4822 124 40242	1µF 20% 63V	
2802	4822 126 12882	100nF +80-20% 50V	
2803	4822 121 43144	22nF 10% 50V	
2804	4822 126 12339	2.2nF 10% Y5R	
2805	4822 126 12882	100nF +80-20% 50V	
2806	4822 122 10462	150F 5% NP0	
2807	4822 122 33849	150pF 10% Y5P 50V	
2808	4822 124 42446	100µF 20% 10V	
2809	4822 124 40246	4.7µF 20% 63V	
2810	4822 124 40246	4.7µF 20% 63V	
2811	4822 122 33197	1nF 10% 50V	
2812	4822 122 33197	1nF 10% 50V	
2813	4822 121 51387	10nF 20% 16V	
2814	4822 126 13677	39pF 5% 50V	
2815	4822 126 12882	100nF +80-20% 50V	
2816	4822 124 40239	0.47µF 20% 63V	
2817	4822 121 42687	3.3nF 10% 63V	
2818	4822 124 40242	1µF 20% 63V	
2819	5322 121 42386	100nF 5% 63V	
2820	4822 126 13581	0.22µF 20% 50V	
2821	4822 124 40248	10µF 20% 63V	
2822	4822 126 11585	22nF +80-20% Y5V 25V	
2823	4822 124 40246	4.7µF 20% 63V	
2824	4822 124 40239	0.47µF 20% 63V	
2825	4822 122 10462	15pF 5% NP0	
2826	4822 124 40239	0.47µF 20% 63V	
2827	4822 124 11958	47µF 20% 25V	
2828	4822 124 40248	10µF 20% 63V	
2829	4822 121 43145	33nF 10% 50V	
2830	4822 122 10319	82pF 5% 50V	
2831	4822 121 43144	22nF 10% 50V	
2832	4822 124 41576	2.2µF 20% 50V	
2833	4822 124 11958	47µF 20% 25V	
2834	4822 126 11585	22nF +80-20% Y5V 25V	
2835	4822 124 40239	0.47µF 20% 63V	
2836	4822 124 40246	4.7µF 20% 63V	
2837	4822 121 51387	10nF 20% 16V	
2839	4822 121 51387	10nF 20% 16V	
2840	4822 122 33519	470pF 10% 50V	

		II	
2841	4822 122 33519	470pF 10% 50V	
2842	4822 124 22225	330µF 20% 16V	
2843	4822 124 11959	100µF 20% 10V	
2844	4822 122 10466	220pF 10% 50V	
2849	4822 122 33519	470pF 10% 50V	
2851	4822 126 12882	100nF +80-20% 50V	
2852	4822 126 13098	5.6nF 20% 16V	
2853	4822 122 33195	100pF 10% 50V	
2854	4822 124 41972	4.7µF 20% 50V	
2855	4822 122 33195	100pF 10% 50V	
2857	4822 122 33519	470pF 10% 50V	
2858	4822 121 51387	10nF 20% 16V	
2859	4822 122 33519	470pF 10% 50V	
2860	4822 122 33519	470pF 10% 50V	
2861	4822 122 33449	47nF 30% 50V	
2862	4822 126 12882	100nF +80-20% 50V	
2863	5322 122 32311	470pF 10% 100V	
2864	5322 122 32311	470pF 10% 100V	
2870	4822 122 10466	220pF 10% 50V	
3800	4822 116 52257	22K 5% 0.5W	
3801	4822 116 52234	100K 5% 0.5W	
3802	4822 052 10828	8R2 5% 0.33W	
3804	4822 116 83883	470R 5% 0.5W	
3808	4822 116 83863	1K 5% 0.5W	
3809	4822 116 52289	5K6 5% 0.5W	
3810	4822 116 52271	33K 5% 0.5W	
3811	4822 116 52235	1M 5% 0.5W	
3813	4822 116 83872	220R 5% 0.5W	
3814	4822 116 52257	22K 5% 0.5W	
3815	4822 116 83884	47K 5% 0.5W	
3816	4822 116 83884	47K 5% 0.5W	
3817	4822 116 83863	1K 5% 0.5W	
3818	4822 116 83863	1K 5% 0.5W	
3819	4822 117 11825	1M5 5%	
3820	4822 116 52252	180K 5% 0.5W	
3821	4822 116 52243	1K5 5% 0.5W	
3822	4822 116 52264	27K 5% 0.5W	
3823	4822 116 52234	100K 5% 0.5W	
3824	4822 116 83868	150R 5% 0.5W	

3825	4822 116 83882	39K 5% 0.5W	
3826	4822 116 83961	6K8 5%	
3827	4822 116 52289	5K6 5% 0.5W	
3828	4822 116 52283	4K7 5% 0.5W	
3829	4822 116 83884	47K 5% 0.5W	
3830	4822 116 52244	15K 5% 0.5W	
3831	4822 116 52251	18K 5% 0.5W	
3832	4822 116 52222	390R 5% 0.5W	
3833	4822 116 52257	22K 5% 0.5W	
3834	4822 116 83868	150R 5% 0.5W	
3835	4822 116 52184	18R 5% 0.5W	
3836	4822 116 52231	820R 5% 0.5W	
3837	4822 111 30893	4M7 5% 0.2W	
3838	4822 116 52234	100K 5% 0.5W	
3839	4822 116 52235	1M 5% 0.5W	
3840	4822 116 83863	1K 5% 0.5W	
3841	4822 116 52298	680K 5% 0.5W	
3842	4822 116 52304	82K 5% 0.5W	
3844	4822 116 52291	56K 5% 0.5W	
3845	4822 116 83963	1K 5% 0.5W	
3846	4822 116 83863	1K 5% 0.5W	
3847	4822 116 52257	22K 5% 0.5W	
3848	4822 116 52257	22K 5% 0.5W	
3850	4822 116 83883	470R 5% 0.5W	
3851	4822 116 52244	15K 5% 0.5W	
3852	4822 116 83883	470R 5% 0.5W	
3853	4822 116 52244	15K 5% 0.5W	
3854	4822 116 52243	1K5 5% 0.5W	
3855	4822 116 83882	39K 5% 0.5W	
3856	4822 116 52271	33K 5% 0.5W	
3857	4822 116 52269	3K3 5% 0.5W	
3858	4822 116 52175	100R 5% 0.5W	
3859	4822 116 83864	10K 5% 0.5W	
3860	4822 116 52207	1K2 5% 0.5W	
3861	4822 116 52257	22K 5% 0.5W	
3863	4822 116 52276	3K9 5% 0.5W	
3864	4822 116 80176	1E 5% 0.5W	
3865	4822 052 10828	8R2 5% 0.33W	
3867	4822 116 52256	2K2 5% 0.5W	
3867	4822 116 52283	4K7 5% 0.5W	

3869	4822 116 52283	4K7 5% 0.5W	
3870	4822 116 52257	22K 5% 0.5W	
3871	4822 116 52257	22K 5% 0.5W	
3872	4822 116 52257	22K 5% 0.5W	
3873	4822 116 52257	22K 5% 0.5W	
3875	4822 116 83864	10K 5% 0.5W	
3880	4822 116 52202	82R 5% 0.5W	
3881	4822 116 52257	22K 5% 0.5W	
3882	4822 116 52243	1K5 5% 0.5W	
3883	4822 116 52243	1K5 5% 0.5W	
3884	4822 116 83882	39K 5% 0.5W	
3885	4822 116 52257	22K 5% 0.5W	
3886	4822 116 52235	1M 5% 0.5W	
3887	4822 116 83863	1K 5% 0.5W	
3888	4822 116 83863	1K 5% 0.5W	
3888	4822 116 83864	10K 5% 0.5W	
3889	4822 116 52257	22K 5% 0.5W	
3890	4822 116 83863	1K 5% 0.5W	
3891	4822 116 83863	1K 5% 0.5W	
3892	4822 116 83863	1K 5% 0.5W	
3893	4822 116 83863	1K 5% 0.5W	
3894	4822 116 83863	1K 5% 0.5W	
3899	4822 116 83863	1K 5% 0.5W	
3900	4822 116 52283	4K7 5% 0.5W	
3901	4822 116 52283	4K7 5% 0.5W	
3902	4822 116 52283	4K7 5% 0.5W	
3903	4822 116 52283	4K7 5% 0.5W	
3904	4822 116 52283	4K7 5% 0.5W	
3905	4822 116 52283	4K7 5% 0.5W	
3906	4822 116 52283	4K7 5% 0.5W	
3907	4822 116 52283	4K7 5% 0.5W	
3908	4822 116 52283	4K7 5% 0.5W	
3909	4822 116 52283	4K7 5% 0.5W	
3910	4822 116 52283	4K7 5% 0.5W	
3911	4822 116 52283	4K7 5% 0.5W	
3914	4822 116 52283	4K7 5% 0.5W	
3915	4822 116 52283	4K7 5% 0.5W	
3916	4822 116 52256	2K2 5% 0.5W	
3917	4822 116 52256	2K2 5% 0.5W	
3917	4822 116 52257	22K 5% 0.5W	

**Service  
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Service**

# Service Manual



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- Exchange instruction for optical pickup unit
- Partslist
- Service hints
- Cleaning the lens

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.



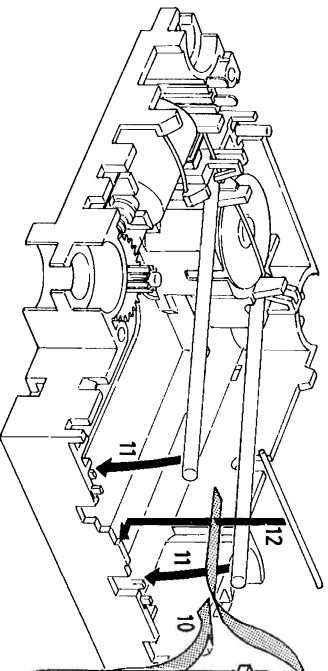
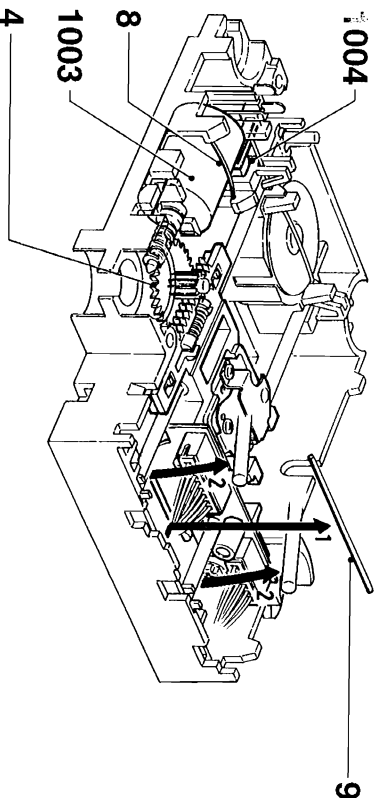
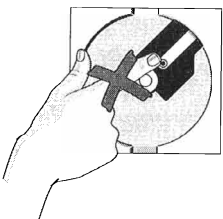


## Exchange instruction for the OPTICAL PICKUP unit

### WARNINGS: Danger of electrostatic discharge!

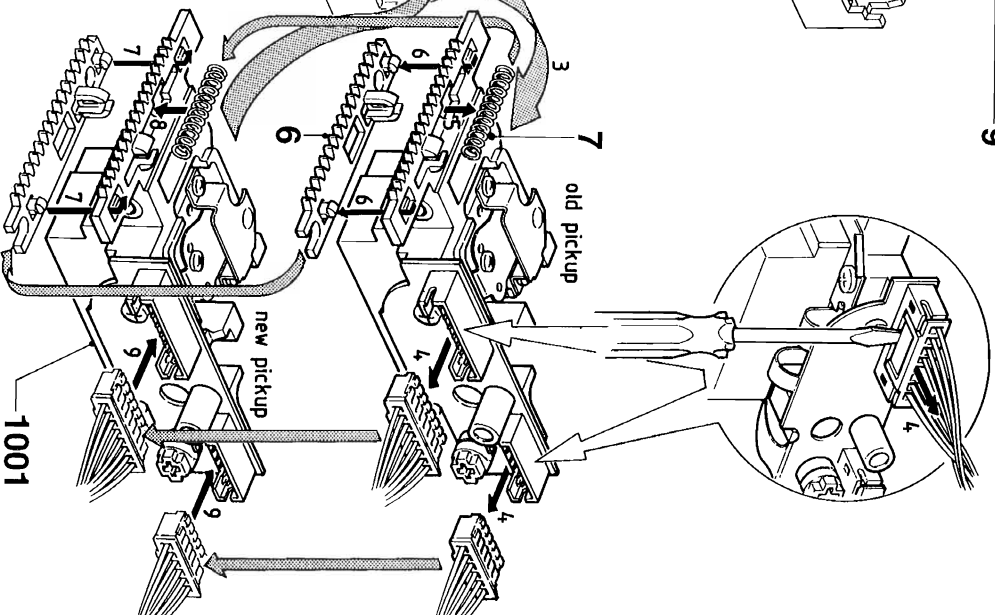
The laser diode is more sensitive to ESD than MOS ICs.  
Therefore take care of ESD-protection whenever working on the disc drive.

Never touch the lens!



### Exchanging the optical pickup unit

- 1) Remove fixing spring of guiding axles.
- 2) Lift guiding axles so far that gear gets out of engagement.
- 3) Pull the pickup unit off the axles.
- 4+9) Pull off the connectors as shown in the sketch and plug them on the new pickup unit.
- 5+6) Remove the toothed bar plus compression spring.
- 7+8) Mount toothed bar and compression spring on new pickup unit.
- 10) Put the new pickup unit on the guiding axles.
- 11) Put guiding axles down to the chassis while positioning the pickup unit so that gear is forced easily into engagement.
- 12) Mount fixing spring of guiding axles.



4822 691 30345 RCD1.3D disc drive assy

4	4822 522 32451	gear wheel
6	4822 522 32453	toothed bar
7	4822 492 51979	spring, compression
8	4822 492 63941	spring, wire (motor)
9	4822 492 63942	spring, wire (axles)

1001	4822 218 30768	optical pickup unit RCD1.3
1003	4822 361 21113	servomotor assy
1004	4822 276 12163	switch, leaf

**Only those parts of which a service code number is stated are service parts.**

### IMPORTANT NOTE:

All electrical adjustments have to be carried out new. Follow the adjustment table of the service manual for the relevant set the disc drive is used.  
The laser current has already been adjusted by the factory.

## SERVICE HINTS

### Service DISC - HOLDDOWN

The disc must always be fixed well on the turntable.

If the mechanism has to be dismounted for repair, a separate disc-holddown has to be used ( e.g. service disc-holddown 4822 532 51871 ).

The CD mechanism then can function normally as in the set.

### REDUCTION of REPAIR PRICE

If the disc drive does not function, in most cases the optical pickup unit will be defect.

To reduce the actual repair price it is recommended to replace the optical pickup unit only.

Follow the exchange instruction on the previous page.

## CLEANING the LENS

**Principle: Avoid cleaning of the lens !**

**DUST particles** are normally no major problem. They can be blown away with oilfree compressed air.

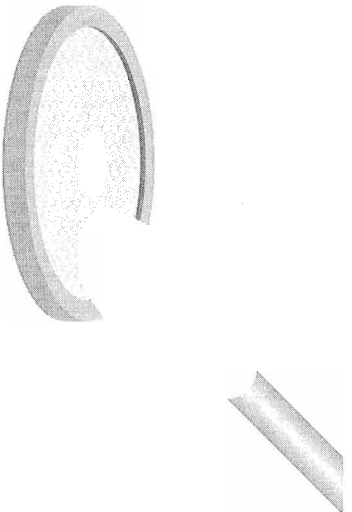
### Finger - prints

If the lens is obviously polluted with finger - prints, it can be cleaned with alcohol or spirit.

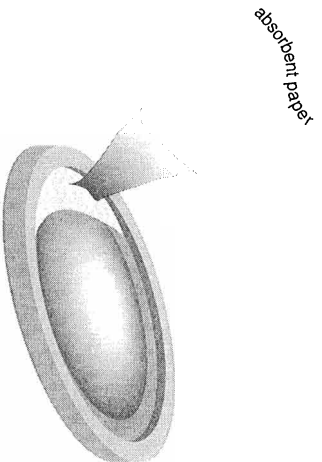
Take a padstick and tip it into alcohol until it is soaked.

Then clean the surface of the lens by rotating the soaked padstick smoothly.

The alcohol will dissolve the finger - prints, rotation helps mechanically. Finally the lens will be filled with the dirty cleaning solvent.



Now incline the lens ( disc drive ) and soak the solvent up with absorbent paper.  
The remnants of the solvent will evaporate.



absorbent paper



**Service  
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Service**

Manual #1856 Supplement 1  
AZ26051701


**Product Service Group CE Audio**



**Service Information**

*Already published Service Information :*

From July 1997 onwards, with factory code starting from KT029729.....  
new CDM and CD6 board are used. For servicing, please refer to the  
following additional pages.



		
3920	4822 116 52283	4K7 5% 0.5W
3921	4822 116 52283	4K7 5% 0.5W
3922	4822 116 52283	4K7 5% 0.5W
3923	4822 116 52283	4K7 5% 0.5W
3924	4822 116 52175	100R 5% 0.5W
3925	4822 116 52283	4K7 5% 0.5W
3926	4822 116 52283	4K7 5% 0.5W
3927	4822 116 52283	4K7 5% 0.5W
3928	4822 116 52283	4K7 5% 0.5W
3929	4822 116 83872	220R 5% 0.5W
3930	4822 116 52257	22K 5% 0.5W
3931	4822 116 83872	220R 5% 0.5W
3932	4822 116 52234	100K 5% 0.5W
3933	4822 116 52234	100K 5% 0.5W
3934	4822 116 52283	4K7 5% 0.5W
3935	4822 116 52283	4K7 5% 0.5W
3936	4822 116 52283	4K7 5% 0.5W
3937	4822 116 52283	4K7 5% 0.5W
3938	4822 116 52283	4K7 5% 0.5W
3940	4822 116 52283	4K7 5% 0.5W
3941	4822 116 52283	4K7 5% 0.5W
3942	4822 116 52283	4K7 5% 0.5W
3943	4822 116 52283	4K7 5% 0.5W
3944	4822 116 52283	4K7 5% 0.5W
3945	4822 116 52283	4K7 5% 0.5W
3946	4822 116 52283	4K7 5% 0.5W
3952	4822 116 52244	15K 5% 0.5W
3954	4822 116 83872	220R 5% 0.5W
3956	4822 116 52283	4K7 5% 0.5W
3957	4822 116 83883	470R 5% 0.5W
5800	4822 242 81865	CST16.93MXW0C3-TF01
5801	4822 242 73769	CST4.19MGW
5802	4822 157 53941	Ind Fxd 100µH
5803	4822 156 21721	Ind Fxd 2.2µH
5804	4822 156 21721	Ind Fxd 2.2µH
5805	4822 526 10494	Ferrite Bead
5806	4822 156 21721	Ind Fxd 2.2µH
5807	4822 157 52333	Coil 100µH

		
6801	4822 130 30621	Diode 1N4148
6803	4822 130 31554	Diode BZX79-B4V3
6806	4822 130 30621	Diode 1N4148
6807	4822 130 30621	Diode 1N4148
7800	 4822 209 15793	IC TMP47C623 -R641Z
7801	4822 209 33339	IC SAA7345GP/S5
7802	4822 209 32421	IC TDA1311A/N2
7803	4822 209 90496	IC M62475FP
7804	4822 130 42231	Trans BC557C
7805	4822 209 32852	IC TDA7073A/N2
7806	4822 209 32852	IC TDA7073A/N2
7807	4822 130 41344	Trans BC337-40
7810	4822 130 41344	Trans BC337-40
7811	4822 209 31508	IC ST24C01B1
7812	4822 212 30842	Sensor TFMS5360
7813	5322 209 11147	IC HEF4093BT
7814	4822 130 44503	Trans BC547C
<b>- MISCELLANEOUS -</b>		
1800	4822 276 13114	Tact Switch
1801	4822 276 13114	Tact Switch
1802	4822 276 13114	Tact Switch
1803	4822 276 13114	Tact Switch
1805	4822 276 13114	Tact Switch
1806	4822 276 13114	Tact Switch
1812	4822 130 91335	LCD Display LPH6197-1
1832	4822 276 13625	Door Switch
1847	4822 320 12052	Cable 13W 140mm

Note : Only those parts mentioned in the list are normal service parts.

