

Service Service Service



Service Manual

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disc
DIGITAL AUDIO

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**CLASS 1
LASER PRODUCT**

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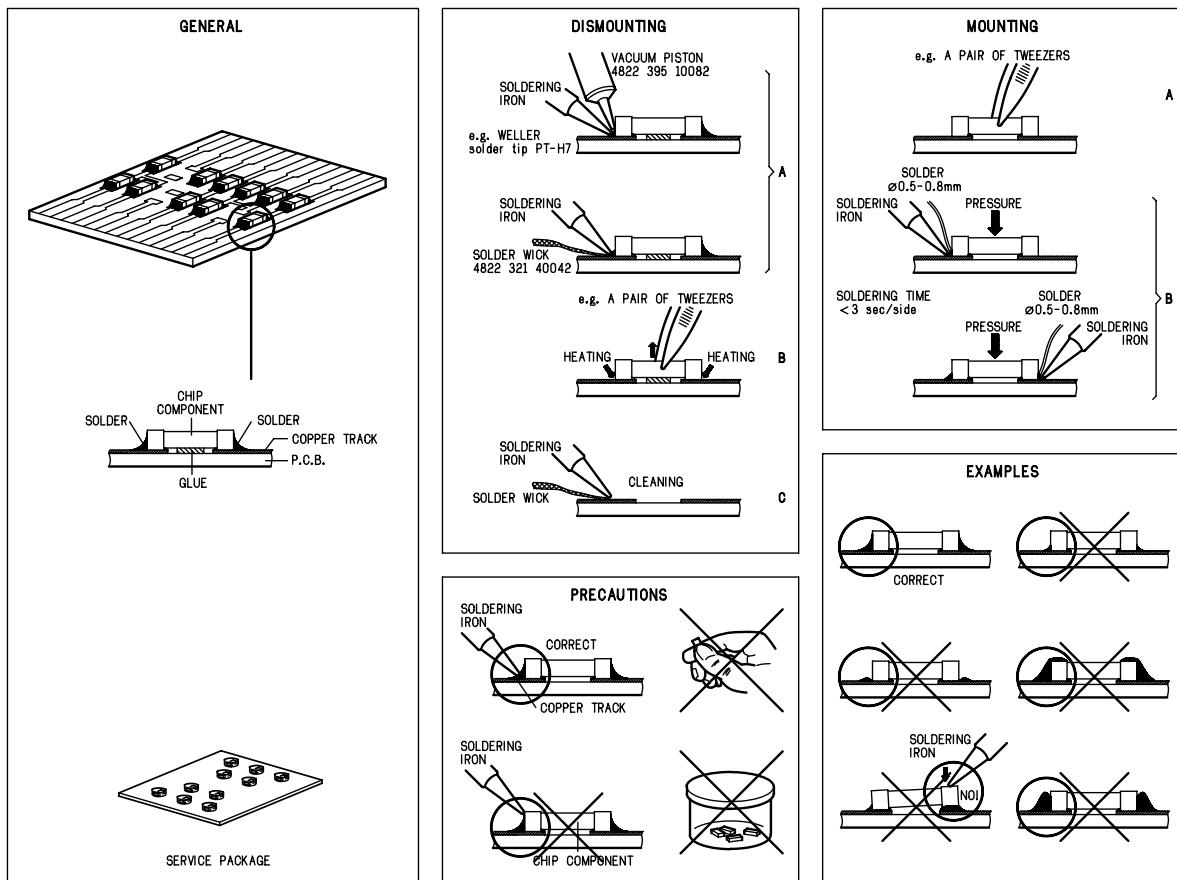
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PHILIPS

HANDLING CHIP COMPONENTS



GB WARNING

All ICs and many other semiconductors 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 wristband with resistance. Keep components and tools at this potential.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux charges statiques (ESD). Leur long vite pourrait tre consid rablement court e par le fait qu'aucune pr caution n st prise leur manipulation. Lors de r parations, s'assurer de bien tre reli au m me potentiel que la masse de l'appareil et enfileer le bracelet serti d'une r sistance de s curit . Veiller ce que les composants ainsi que les outils que l'on utilise soient galement ce potentiel.

GB

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

Safety components are marked by the symbol

F

Les normes de s curit exigent que l'appareil soit remis l'tat d'origine et que soient utilis es les pi ces de rechange identiques celles sp cifi es.

Les composants de s curit sont marqu s

D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD). Unsorgf tige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Sorgen Sie dar, da Sie im Reparaturfall ber ein Pulsarmband mit Widerstand mit dem Massepotential des Ger tes bilden sind. Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Ger tes darf nicht verndert werden. Fr Reparaturen sind Originalersatzteile zu verwenden. Sicherheitsbauteile sind durch das Symbol markiert.

CLASS 1 LASER PRODUCT

DANGER: Invisible laser radiation when open.
AVOID DIRECT EXPOSURE TO BEAM.

S Varning !

Osynlig laserstr ling n r apparaten r ppnad och sp ren r urkopplad. Betrakta ej str len.

DK Advarsel !

Usynlig laserstr ling ved bning n r sikkerhedsafbrydere er ude af funktion. Undg udsættelse for str ling.

FIN Varoitus !

Avautessa laitteesta ja suojaalukituksen ohittaa olet alittina n kym tt m lle laseris teillye. I katso s teeseen !

NL WAARSCHUWING

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

I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevit potrebbe essere fortemente ridotta in caso di non osservazione della pi grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa del ppareccio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

NL

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast. De Veiligheidsonderdelen zijn aangeduid met het symbool

I

Le norme di sicurezza estigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati. Componenti di sicurezza sono marcati con

GB

After servicing and before returning the set to customer perform a leakage current measurement test from all exposed metal parts to earth ground, to assure no shock hazard exists.

The leakage current must not exceed 0.5mA.

F

Pour votre s curite, ces documents doivent tre utilis s par des sp cialistes agr s, seuls habilit s r parer votre appareil en panne".

TECHNICAL SPECIFICATIONS

GENERAL

Mains voltage	-/25 : 240 V -/37 : 120 V -/21/21M : 120 / 230 V -/22/30/33 : 230 V
Mains frequency	-/22/25/30/33 : 50 Hz -/21/21M : 50 / 60 Hz -/37 : 60 Hz
Battery	remote : 3 V (R6 x 2)
Power consumption	normal : 60 W Standby : 3 W
Dimension (W x H x D)	: 140 x 231 x 280 mm
Weight	: 6.7 Kg

AMPLIFIER

TUNER - FM SECTION

Tuning range	:	87.5 - 108 MHz
IF frequency	:	10.7 MHz \pm 0.02 MHz
Sensitivity	:	16 dBf at 26dB S/N
Selectivity	300kHz	: 55 dB
IF suppression	:	85 dB
Image suppression	:	40 dB
Channel separation	1kHz	: 28 dB

TUNER - AM SECTION

Tuning range	MW : 531 - 1602 kHz -37 : 530 - 1700 kHz
Tuning range	LW : 153 - 279 kHz
IF frequency	: 450 kHz ± 1 kHz
Sensitivity	MW : ≤ 3.5 mV/m at 26dB S/N LW : ≤ 4.2 mV/m
Selectivity	MW : < 22 dB LW : < 35 dB
IF rejection	MW : < 64 dB
Spurious rejection ratio	MW : < 58 dB LW : < 51 dB
Image rejection ratio	MW : < 40 dB LW : < 47 dB

AUDIO CASSETTE RECORDER

Frequency response	:	80 - 12500 Hz
Wow & flutter	:	0.4 % (DIN)
Tape speed	:	4.76 cm/s ± 2 %
Channel difference	1kHz :	0 dB
S/N ratio (unw.)	Ferro :	47 dB
	Chrome :	50 dB
S/N ratio (wght.)	Ferro :	52 dB
	Chrome :	56 dB

COMPACT DISC

Frequency response	:	20Hz - 20kHz within 1.5dB
S/N ratio (unw.)	:	> 85 dB
S/N ratio (A-wght.)	:	> 90 dB
THD+N	1 kHz :	> 72 dB
Channel crosstalk	:	> 50 dB
Channel unbalance	:	< ±1 dB

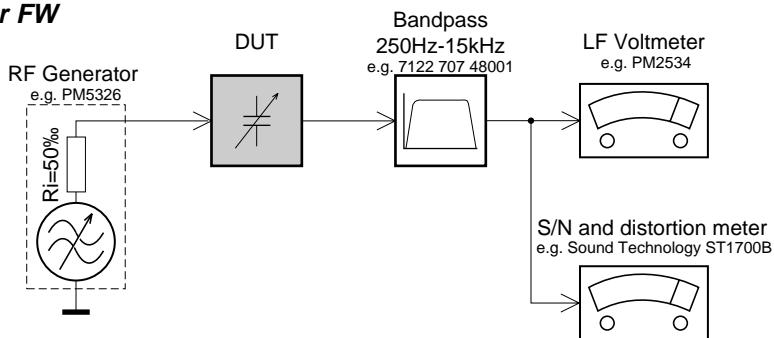
SERVICE TOOLS

AVAILABILITY FSD PROTECTION EQUIPMENT

anti-static table mat	large small	1200x650x1.25mm 600x650x1.25mm	4822 466 10953 4822 466 10958
anti-static wristband			4822 395 10223
connection box (3 press stud connections, 1M%)			4822 320 11307
extensible cable (2m, 2M%, to connect wristband to connection box)			4822 320 11305
connecting cable (3m, 2M%, to connect table mat to connection box)			4822 320 11306
earth cable (1M%, to connect any product to mat or to connection box)			4822 320 11308
KIT ESD3 (combining all 6 prior products - small table mat)			4822 310 10671
wristband tester			4822 344 13999

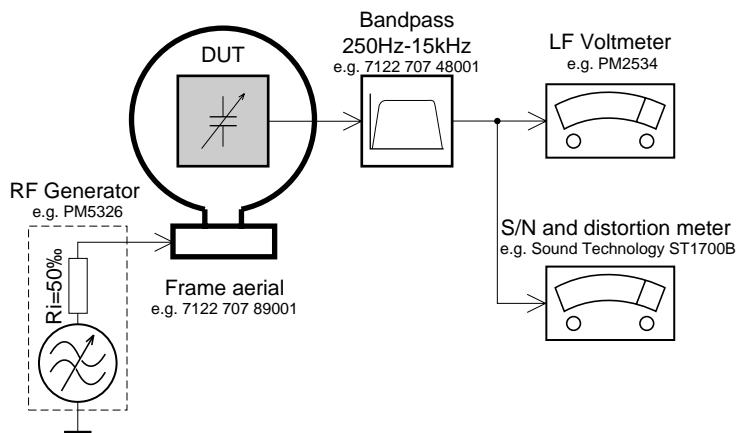
SERVICE MEASUREMENT

Tuner FW



Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilottone (19kHz, 38kHz).

Tuner AM (MW, LW)



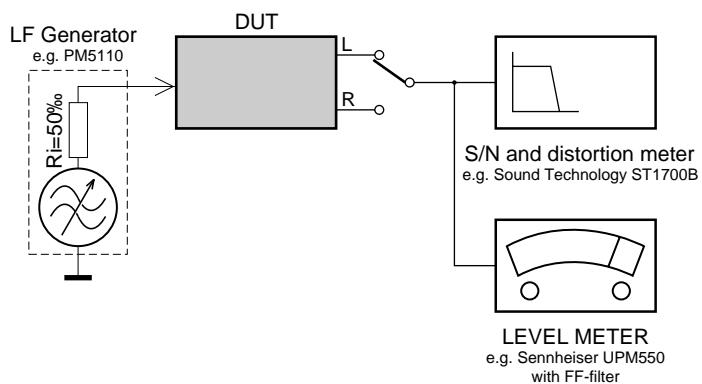
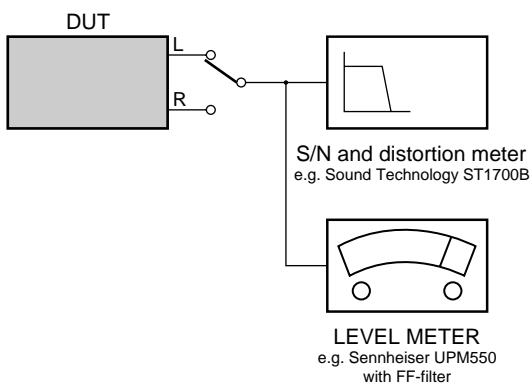
To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday's cage.
Use a bandpass filter (or at least a high pass filter with 250kHz) to eliminate hum (50Hz, 100Hz).

CD

Use Audio Signal Disc SBC429 4822 397 30184
(replaces test disc 3)

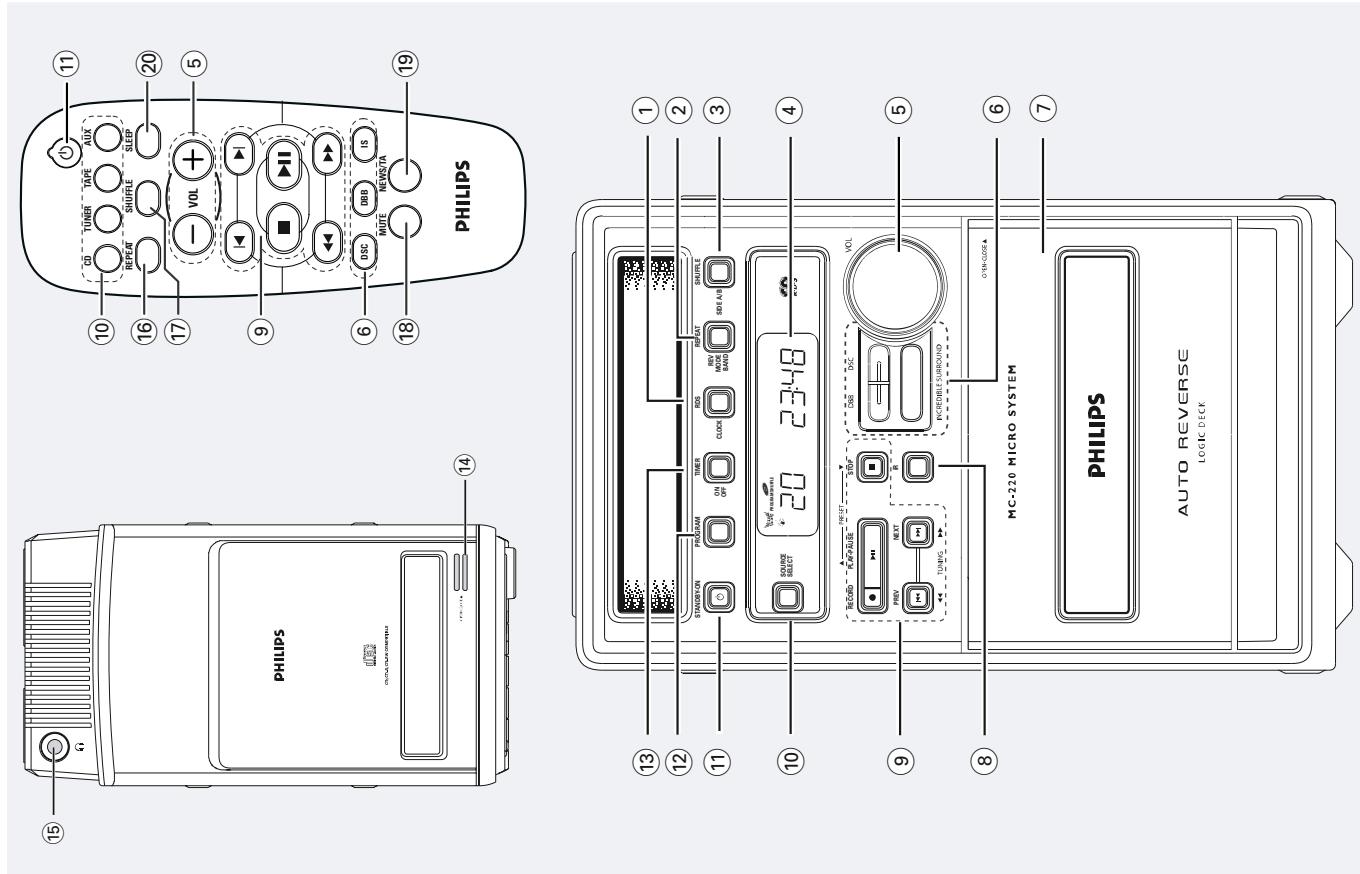
RECORDER

Use Universal Test Cassette Fe SBC420 4822 397 30071



CONNECTION AND CONTROLS

Controls



Controls on the system and remote control	
① CLOCK / RDS	(◀, ▶)skips to the beginning of a current track/previous/ subsequent track
for Tuner...displays RDS information. for Clock...sets the clock function. for Tape...shows tape counter in recording mode.	(◀◀, ▶▶)fast searches back and forward within a track/CD.fast rewind/wind tape.
② REPEAT / REV MODE/ BANDfast tunes to radio stations.
for CD...repeats a track/CD programme/ entire CD. for Tape...selects tape reverse modes. for Tuner...selects waveband.starts recording.
③ SHUFFLE/ SIDE A/B	⑩ SELECT SOURCE
for CD...plays CD tracks in random order for Tape...switches tape direction.	- selects the respective sound source for CD/ TUNER/TAPE / AUX.
④ Display	- switches on the system.
- shows the status of the system.	⑪ STANDBY ON ⏻
⑤ VOLUME (VOL -/+)	- switches the system to standby/on. - on the remote control only - switches the system to standby.
- adjusts the volume level. on the system only - adjusts the hour and minutes for the clock/timer functions.	⑫ PROGRAM
⑥ INTERACTIVE SOUND controls:	for CD ...programmes tracks and reviews the programme. for Tuner ...programmes tuner stations manually or automatically.
DBB(Dynamic Bass Boost) enhances the bass. DSC(Digital Sound Control) selects sound characteristics: CLASSIC/ ROCK/JAZZ/POP.	⑬ TIMER ON-OFF
⑦ OPEN	- activates/deactivates or sets the timer function.
⑧ IR SENSOR	⑭ OPEN-CLOSE
⑨ Mode Selection	- opens/closes the CD door.
⑩ STOP ■	⑮ MUTE
⑪ AUTO REVERSE LOGIC DECK	- connects headphones.
⑫ PLAY-PAUSE ▶ II	⑯ REPEAT
⑬ TUNER	- repeats a track/CD programme/ entire CD.
⑭ RECORD	⑰ SHUFFLE
⑮ SELECT SOURCE	- plays CD tracks in random order.
⑯ PROGRAM	⑱ MUTE
⑰ TIMER ON-OFF	- interrupts and resumes sound reproduction.
⑱ OPEN-CLOSE	⑲ NEWS/TIA
⑲ MUTE	- activates RDS news and Traffic Announcement.
⑳ REPEAT	⑳ SLEEP
㉑ SHUFFLE	- activates/deactivates or selects the sleeper time.
㉒ MUTE	
㉓ NEWS/TIA	
㉔ SLEEP	

Notes for remote control:

- First select the source you wish to control by pressing one of the source select keys on the remote control (for example CD, TUNER).
- Then select the desired function (for example ▲, ▾, ▷, ▶).

Preparations

Preparations

3 - 2

CONNECTION AND CONTROLS

Optional connection
The optional equipment and connecting cords are not supplied. Refer to the operating instructions of the connected equipment for details.

Connecting other equipment to your system
Connect the audio left and right OUT terminals of a TV,VCR, Laser Disc player,DVD player or CD Recorder to the **AUX IN** terminals.

Note:

- If you are connecting equipment with a mono output (a single audio out terminal), connect it to the **AUX IN** left terminal. Alternatively, you can use a "single to double" cinch cable (the output sound still remain mono).

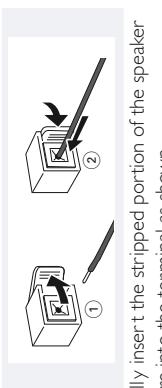


For better FM stereo reception, connect an outdoor FM antenna to the FM AERIAL (FM ANTENNA) terminal.

(C) Speakers Connection

Front Speakers

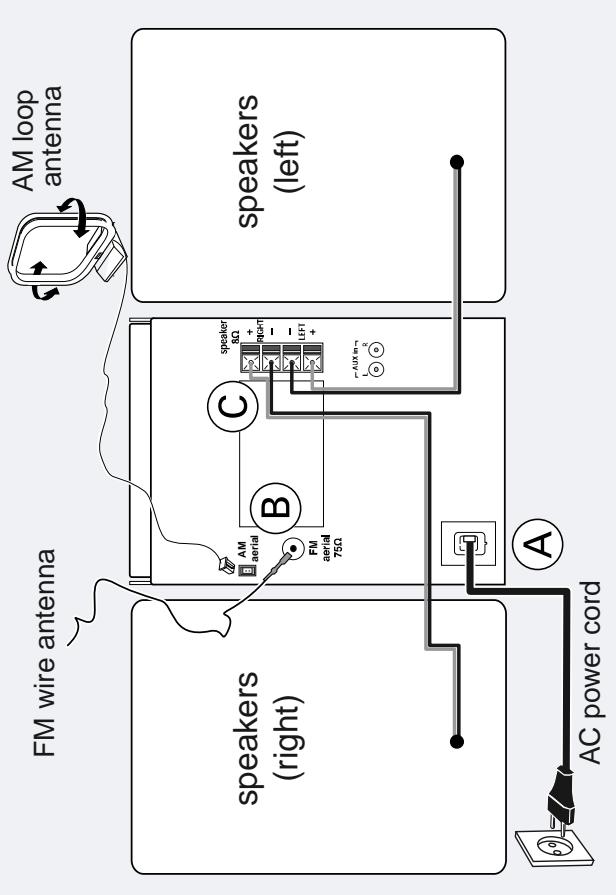
Connect the speaker wires to the SPEAKERS terminals, right speaker to "RIGHT" and left speaker to "LEFT", coloured (marked) wire to "+" and black (unmarked) wire to "-".



Fully insert the stripped portion of the speaker wire into the terminal as shown.

Notes:

- For optimal sound performance, use the supplied speakers.
- Do not connect more than one speaker to any one pair of + / - speaker terminals.
- Do not connect speakers with an impedance lower than the speakers supplied. Please refer to the SPECIFICATIONS section of this manual.



Rear connections

The type plate is located at the rear of the system.

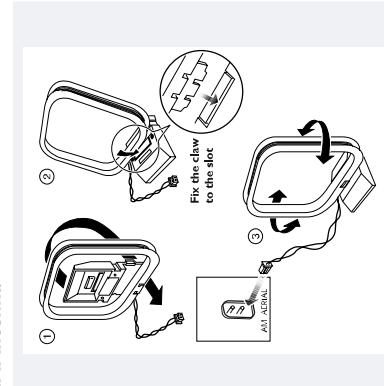
(A) Power

Before connecting the AC power cord to the wall outlet, ensure that all other connections have been made.

WARNING!

- For optimal performance, use only the original power cable.
- Never make or change any connections with the power switched on.

To avoid overheating of the system, a safety circuit has been built in. Therefore, your system may switch to Standby mode automatically under extreme conditions. If this happens, let the system cool down before reusing it (not available for all versions).

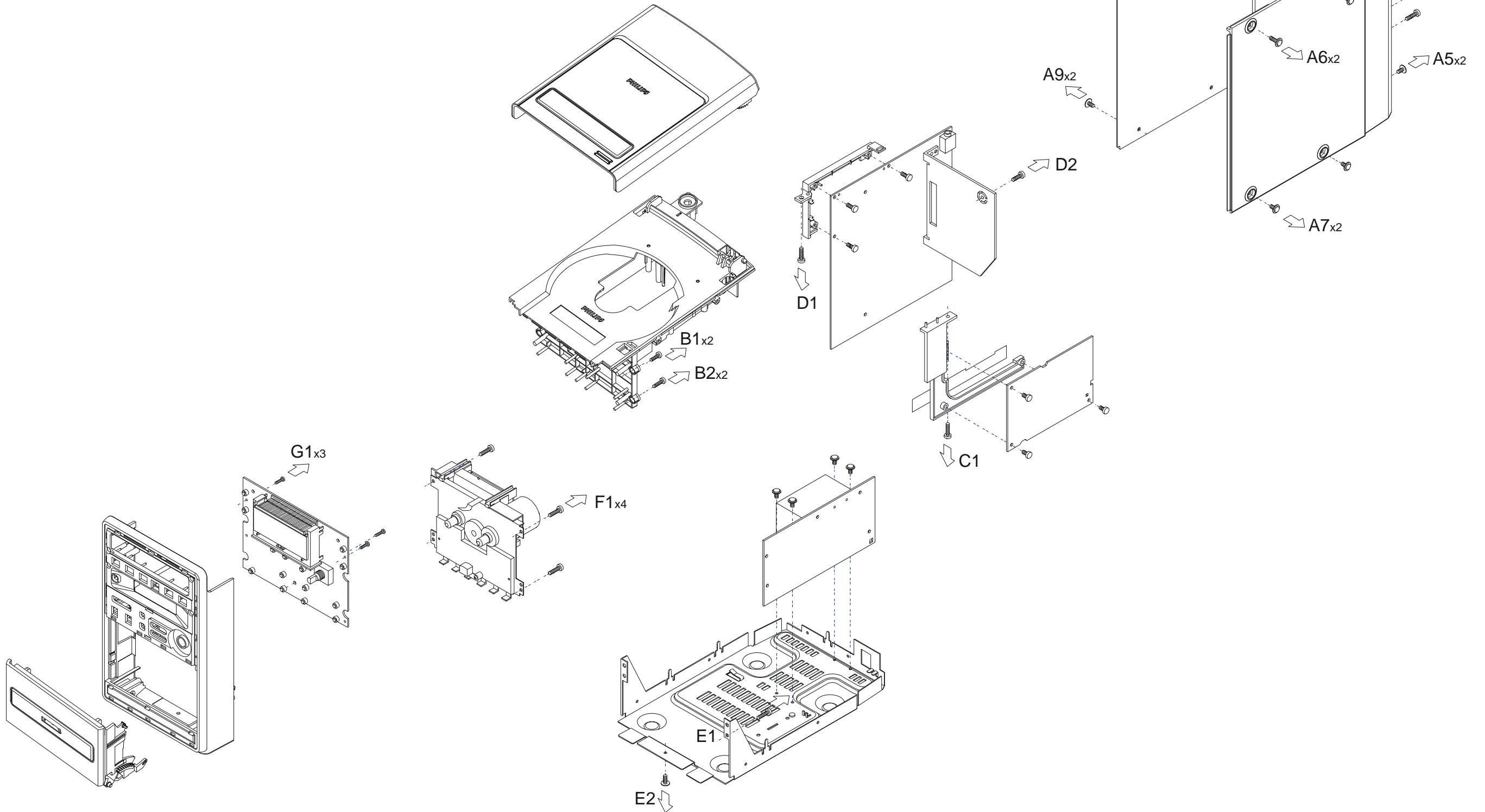


Position the antenna as far as possible from a TV, VCR or other radiation source.

For more information on operation instruction please visit Philips
Audio internet site :
<http://www.audio.philips.com>

DISASSEMBLY DIAGRAM

- A. To remove Cabinet Rear
- B. To remove CD Tray
- C. To remove Tuner Board Bracket
- D. To remove Combi Board Bracket
- E. To remove Bottom Plate
- F. To remove Tape Deck
- G. To remove Front Board



CD SERVICE TEST PROGRAM

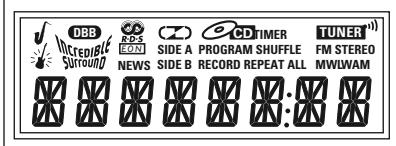
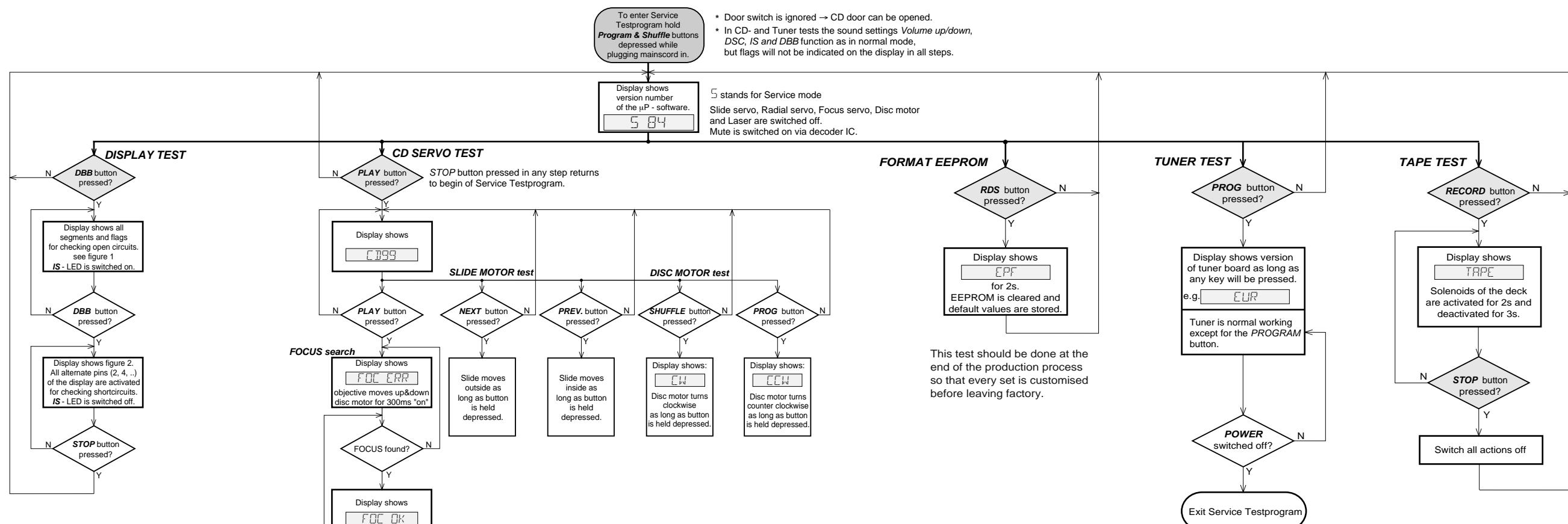


fig. 1

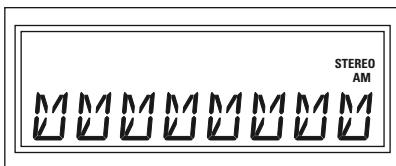
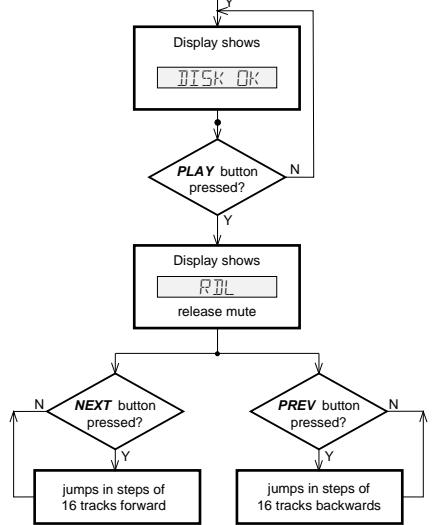


fig. 2



TUNER VERSIONS

REGION & SET VERSIONS	EUROPE FM/MW /22/25	USA FM/MW /37	OVERSEAS FM/MW 1) Grid switchable 100/10kHz - 50/9kHz /21/21M/30

table 2

¹⁾ To toggle frequency grid press **SHUFFLE** button for more than 5s in normal tuner mode (**not** in service testmode).

Display will show either **GRID 9** or **GRID 10** for 2s.

CD ERROR CODES

Error number	Error description	Error type
E1000	Focus error Triggered when the focus is lost during playing the CD.	W
E1001	Radial error Triggered when the radial servo is not on track for a certain time during playing the CD.	W
E1002	Slide-in error The sledge did not reach its inner position (innerswitch is closed) before approximately 6 seconds have passed by - innerswitch or sledgemotor problem.	W
E1003	Slide-out error The sledge did not come out of its inner position (innerswitch is open) before approximately 300ms have passed by - innerswitch or sledgemotor problem.	W
E1005	Jump error Triggered when the jump destination could not be found within a certain time.	W
E1006	Subcode error No valid subcode for a certain time during play.	W
E1007	PLL error The Phase-Lock-Loop could not lock within a certain time.	W
E1008	Turntable motor error Generated when the CD could not reach 75% of speed during start-up within a certain time. Discmotor problem.	W
E1020	Focus search error The focus point has not been found within a certain time.	F

table 1

Error type: W = Warning → set continues operation, message remains on the display until next error occurs or any key is pressed.

F = Fatal Error → set stops operation, message remains on the display.

Abbreviations and Pin-description of CD Ics

SERVO PROCESSOR SAA7325H

SYMBOL	PIN	DESCRIPTION
HFREF	1	comparator common mode input
HFIN	2	comparator signal input
ISLICE	3	current feedback output from data slicer
V _{SSA1}	4 ⁽¹⁾	analog ground 1
V _{DDA1}	5 ⁽¹⁾	analog supply voltage 1
I _{ref}	6	reference current output pin
V _{RIN}	7	reference voltage for servo ADC's
D1	8	unipolar current input (central diode signal input)
D2	9	unipolar current input (central diode signal input)
D3	10	unipolar current input (central diode signal input)
D4	11	unipolar current input (central diode signal input)
R1	12	unipolar current input (satellite diode signal input)
R2	13	unipolar current input (satellite diode signal input)
V _{SSA2}	14 ⁽¹⁾	analog ground 2
CROUT	15	crystal/resonator output
CRIN	16	crystal/resonator input
V _{DDA2}	17 ⁽¹⁾	analog supply voltage 2
LN	18	DAC left channel differential output - negative
LP	19	DAC left channel differential output - positive
V _{neg}	20	DAC negative reference input
V _{pos}	21	DAC positive reference input
RN	22	DAC right channel differential output - negative
RP	23	DAC right channel differential output - positive
SELPLL	24	selects whether internal clock multiplier PLL is used
TEST1	25	test control input 1; this pin should be tied LOW
CL16	26	16.9344 MHz system clock output
DATA	27	serial d4(1)ata output (3-state)
WCLK	28	word clock output (3-state)
SCLK	29	serial bit clock output (3-state)
EF	30	C2 error flag output (3-state)
TEST2	31	test control input 2; this pin should be tied LOW
KILL	32	kill output (programmable; open-drain)
V _{SSD1}	33 ⁽¹⁾	digital ground 2
V2/V3	34	versatile I/O: input versatile pin 2 or output versatile pin 3 (open-drain)
WCLI	35	word clock input (for data loopback to DAC)
SDI	36	serial data input (for data loopback to DAC)
SCLI	37	serial bit clock input (for data loopback to DAC)
RESET	38	power-on reset input (active LOW)
SDA	39	microcontroller interface data I/O line (open-drain output)
SCL	40	microcontroller interface clock line input

Abbreviations and Pin-description of CD Ics

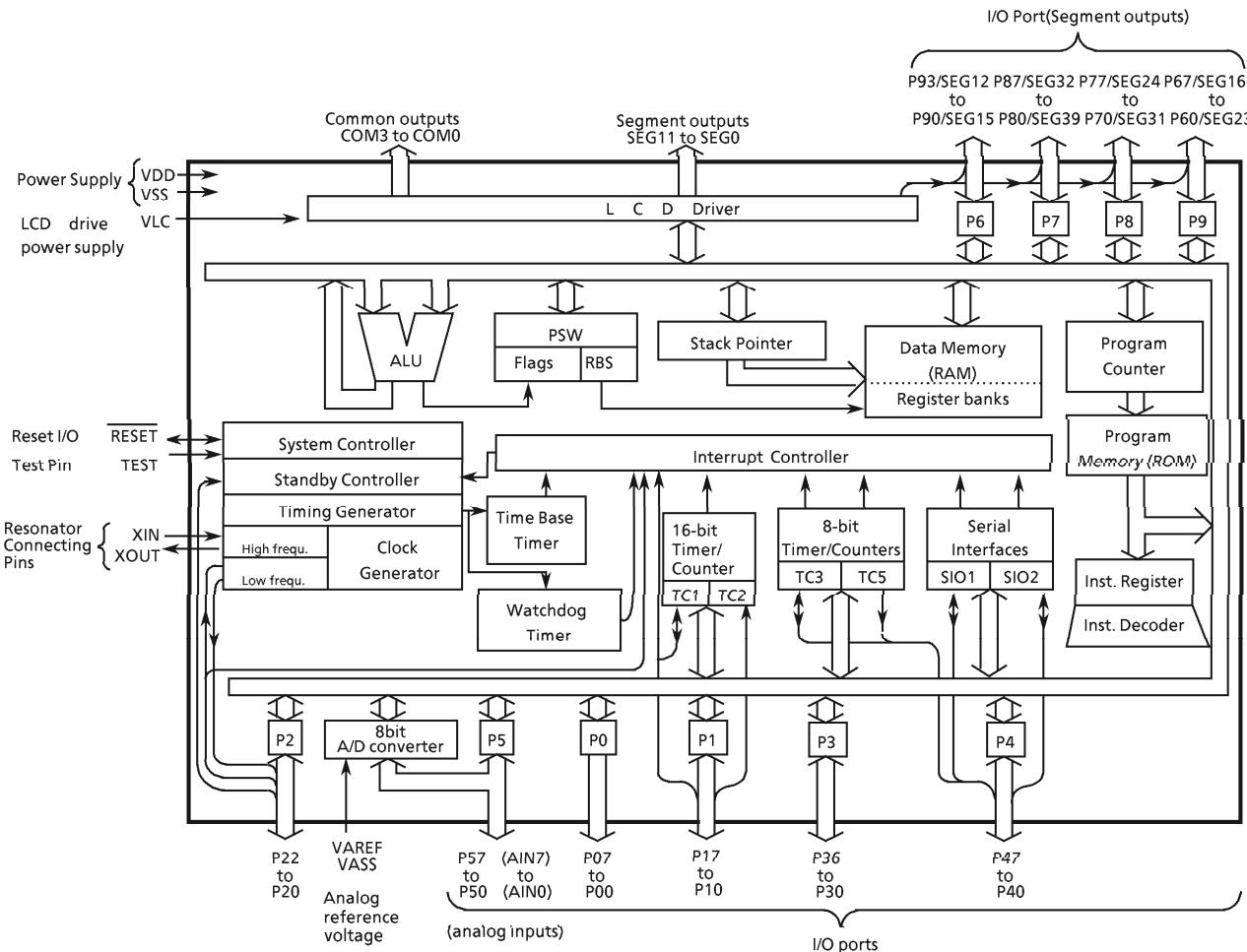
SERVO PROCESSOR SAA7325H

SYMBOL	PIN	DESCRIPTION
RAB	41	microcontroller interface R/W and load control line input (4-wire bus mode)
SILD	42	microcontroller interface R/W and load control line input (4-wire bus mode)
STATUS	43	servo interrupt request line/decoder status register output (open-drain)
TEST3	44	test control input 3; this pin should be tied LOW
RCK	45	subcode clock input
SUB	46	P-to-W subcode bits output (3-state)
SFSY	47	subcode frame sync output (3-state)
SBSY	48	subcode block sync output (3-state)
CL11/4	49	11.2896 MHz or 4.2336 MHz (for microcontroller) clock output
V _{SSD2}	50 ⁽¹⁾	digital ground 3
DOBM	51	bi-phase mark output (externally buffered; 3-state)
V _{DDD1(P)}	52 ⁽¹⁾	digital supply voltage 2 for periphery
CFLG	53	correction flag output (open-drain)
RA	54	radial actuator output
FO	55	focus actuator output
SL	56	sledge control output
V _{DDD2(C)}	57 ⁽¹⁾	digital supply voltage 3 for core
V _{SSD3}	58 ⁽¹⁾	digital ground 4
MOTO1	59	motor output 1; versatile (3-state)
MOTO2	60	motor output 2; versatile (3-state)
V4	61	versatile output pin 4
V5	62	versatile output pin 5
V1	63	versatile intput pin 1
LDON	64	laser drive on output (open-drain)

Note : All supply pins must be connected to the same external power supply voltage.

BLOCK DIAGRAM OF INTEGRATED CIRCUIT

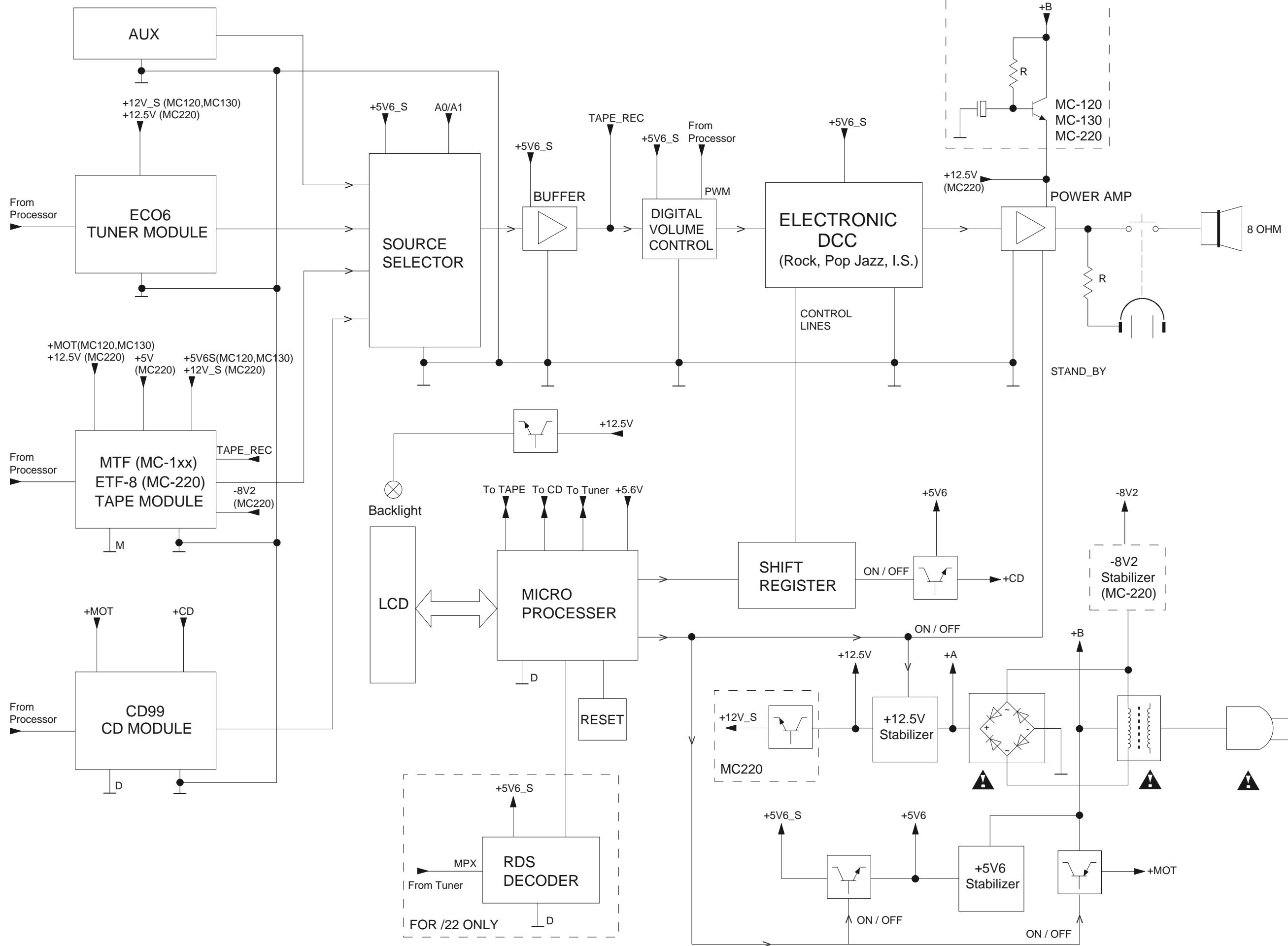
IC 7400 TMP87CM23F



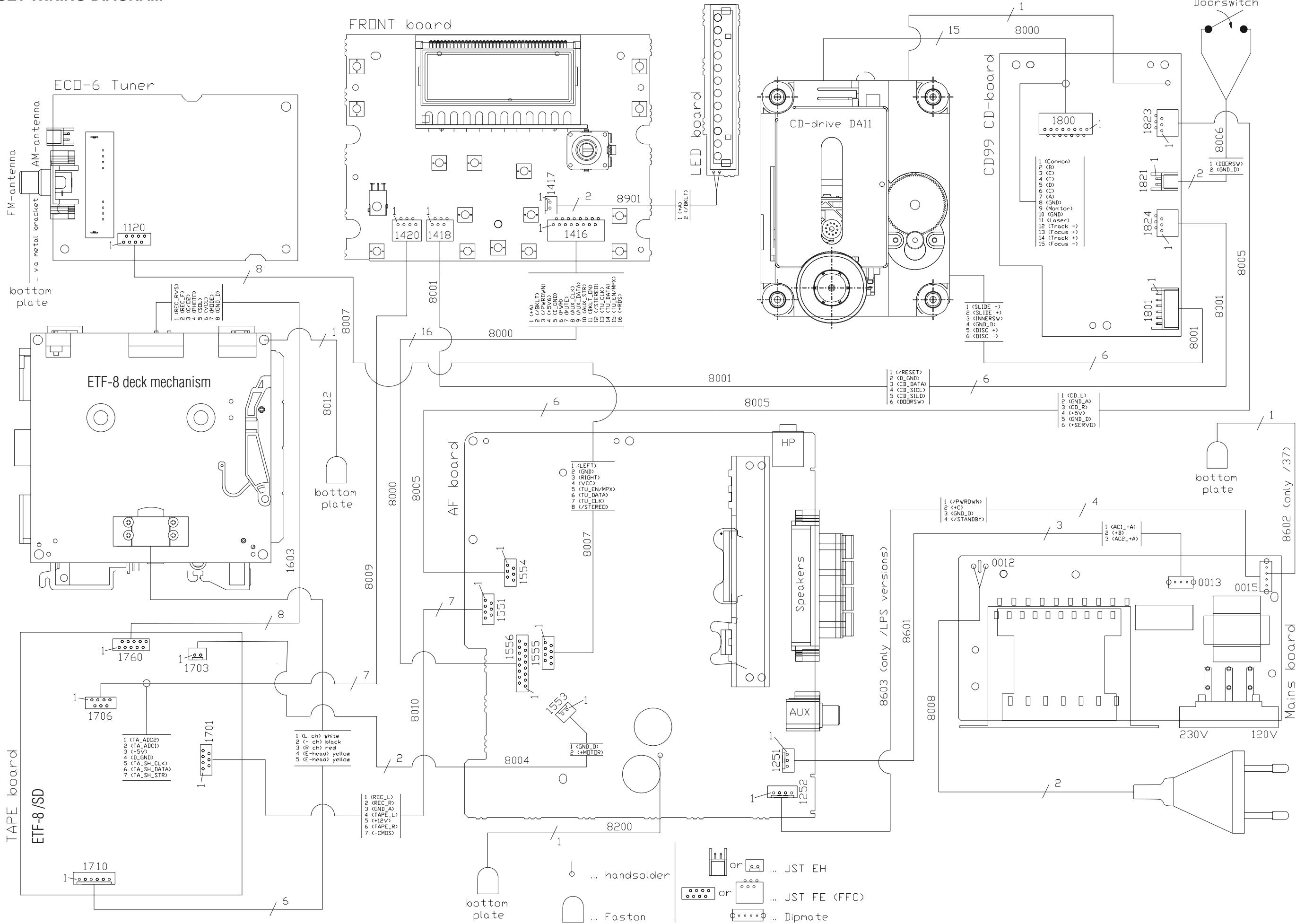
PINS DESCRIPTION OF IC 7400 TMP87CM23F

PIN FUNCTION

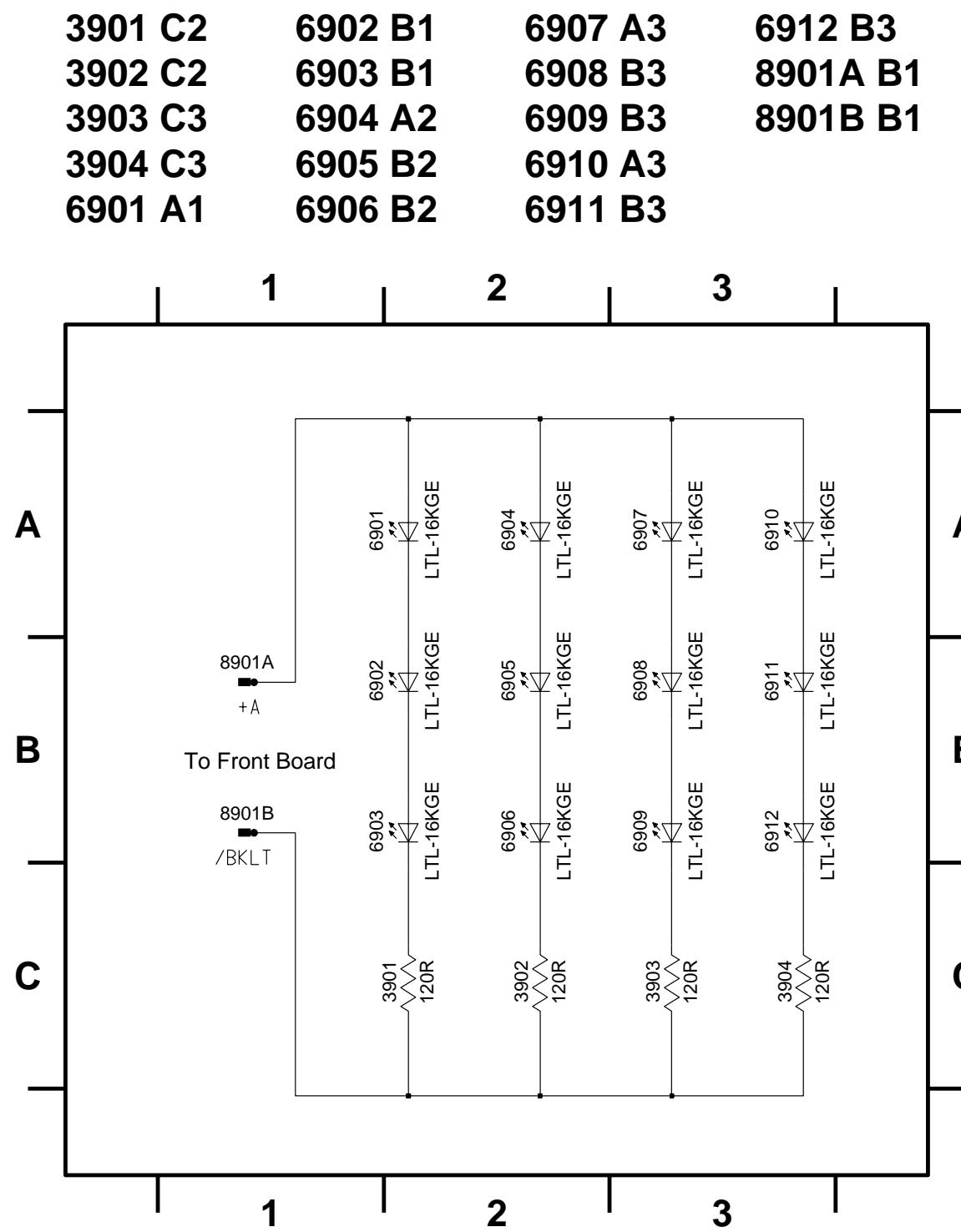
PIN NAME	Input / Output	FUNCTION
P07 to P00	I/O	8-bit programmable input/output ports (tri-state).
P17, P16	I/O	
P15 (TC2)	I/O (Input)	Timer/Counter 2 input
P14 (PPG)	I/O (Output)	Programmable pulse generator output
P13 (DVO)	I/O (Output)	Divider output
P12 (INT2 / TC1)	I/O (Input)	External interrupt input 2 or Timer/Counter 1 input
P11 (INT1)	I/O (Input)	External interrupt input 1
P10 (INT0)	I/O (Input)	External interrupt input 0
P22 (XTOUT)	I/O (Output)	3-bit input/output port with latch. Resonator connecting pins (32.768kHz). For inputting external clock, XTIN is used and XTOUT is opened.
P21 (XTIN)	I/O (Input)	When used as an input port, the latch must be set to "1".
P20 (INT5 / STOP)	I/O (Input)	External interrupt input 5 or STOP mode release signal input
P36 to P30	I/O	7-bit input/output port with latch. When used as input port, the latch must be set to "1".
P47 (SO2)	I/O (Output)	SIO2 serial data output
P46 (SI2)	I/O (Input)	SIO2 serial data input
P45 (SCK2)	I/O (I/O)	SIO2 serial clock input/output
P44 (SO1)	I/O (Output)	SIO1 serial data output
P43 (SI1)	I/O (Input)	SIO1 serial data input
P42 (SCK1)	I/O (I/O)	SIO1 serial clock input/output
P41 (PWM/PDO)	I/O (Output)	8-bit PWM output, 8-bit programmable divider output
P40 (INT3/TC3)	I/O (Input)	External interrupt input 3, Timer/Counter 3 input
P57 (AIN07) to P50 (AIN00)	I/O (Input)	8-bit programmable input/output port (tri-state). Each bit of the port can be individually configured as an input or an output under software control. When used as analog input, the latch must be set to "0". A/D converter analog inputs
SEG39 (P80) to SEG32 (P87)	Output (I/O)	8-bit input/output port with latch. LCD segment outputs. When used as segment output, the control register of P6, P7, P8 and P9 must be set to "1".
SEG31 (P70) to SEG24 (P77)	Output (I/O)	
SEG23 (P60) to SEG16 (P67)	Output (I/O)	
SEG15 (P90) to SEG12 (P93)	Output (I/O)	4-bit input/output port with latch. When used as an input port, the latch must be set to "1".
SEG11 to SEG0	Output	LCD segment outputs
COM3 to COM0	Output	LCD common outputs
XIN, XOUT	Input, Output	Resonator connecting pins for high-frequency clock. For inputting external clock, XIN is used and XOUT is opened.
RESET	I/O	Reset signal input or watchdog timer output/address-trap-reset output
TEST	Input	Test pin for out-going test. Be fixed to low.
VDD, VSS	Power Supply	+ 5 V, 0 V (GND)
VAREF, VASS		Analog reference voltage inputs (High, Low)
VLC		LCD drive power supply.

SET BLOCK DIAGRAM

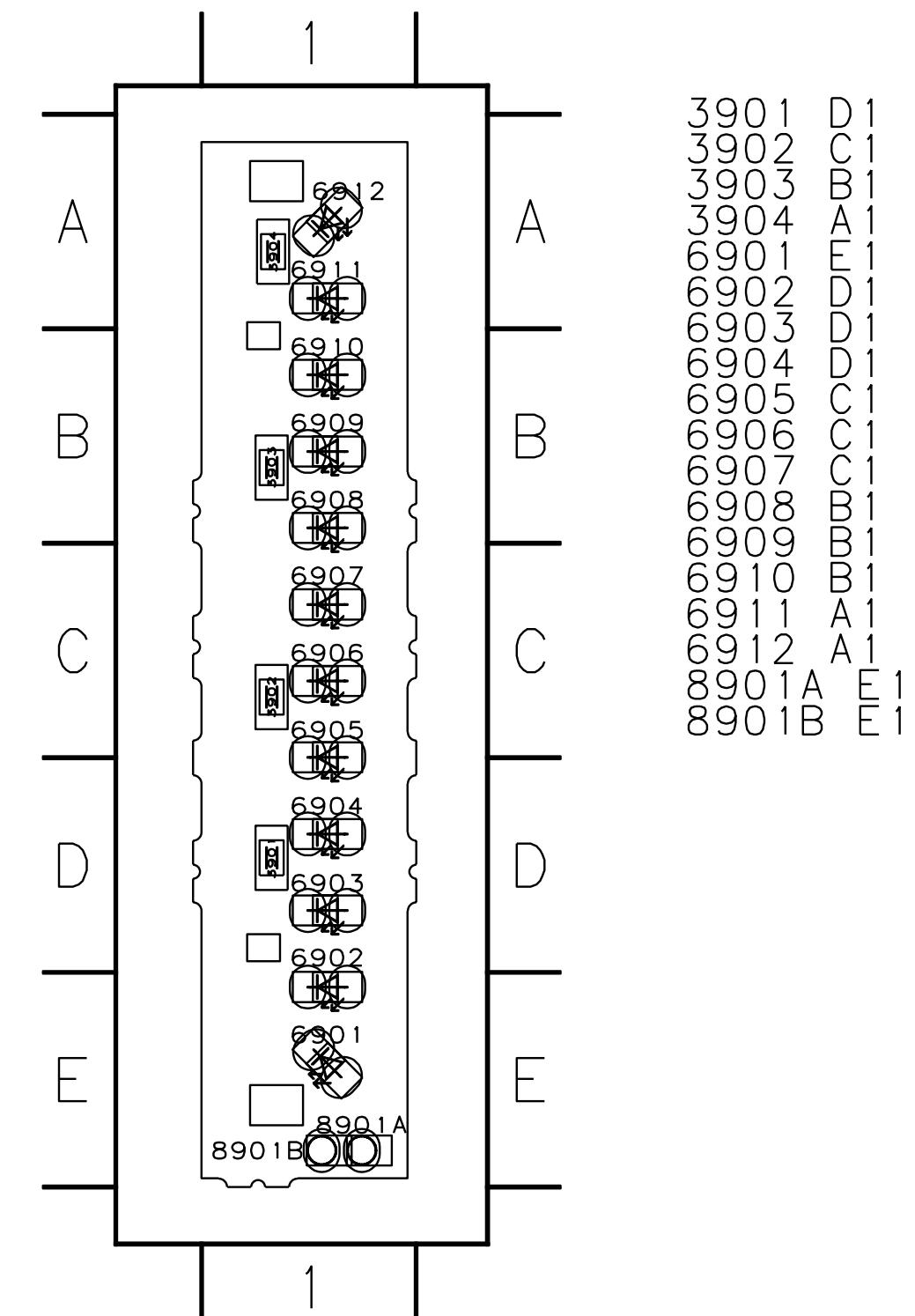
SET WIRING DIAGRAM



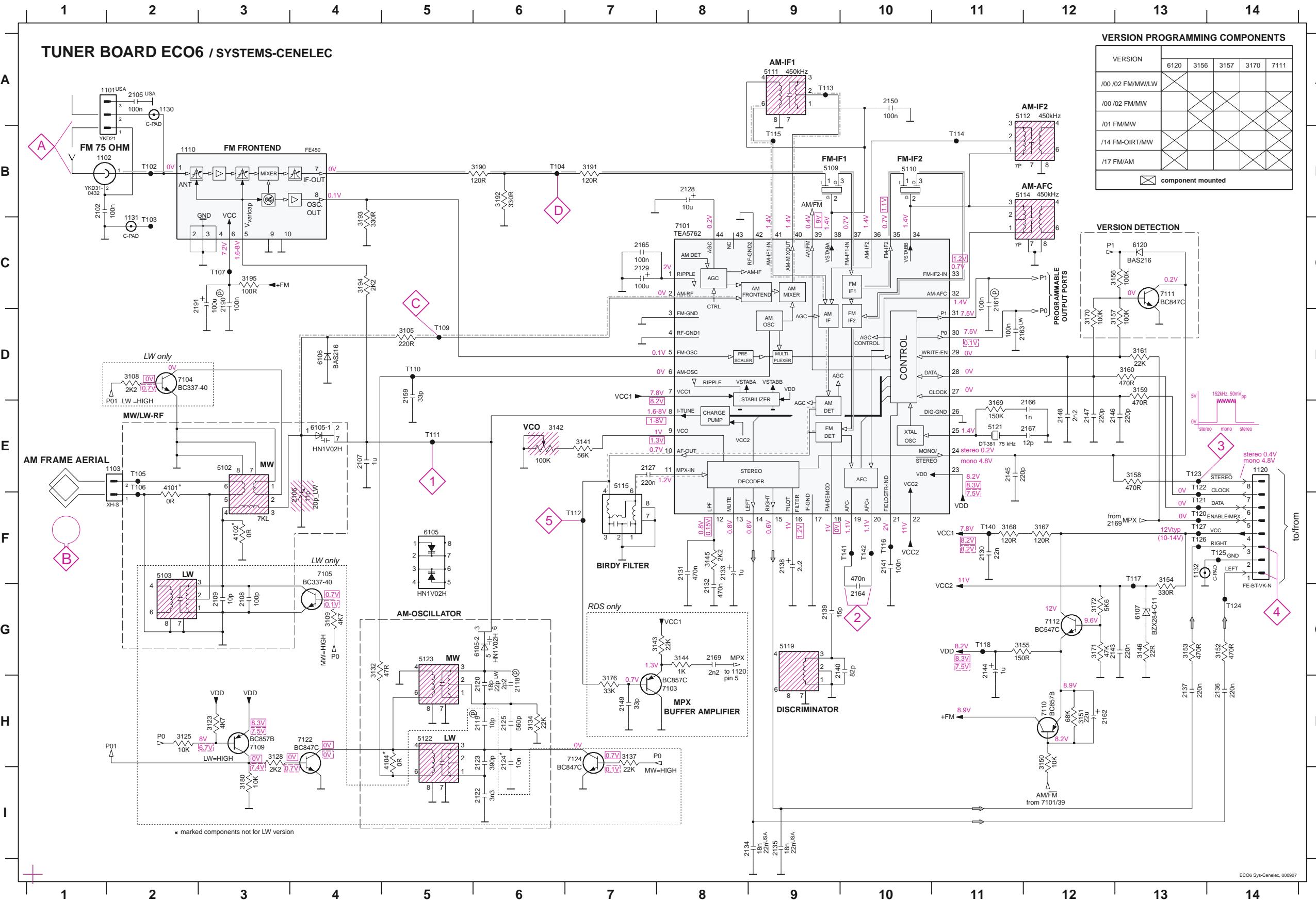
CIRCUIT DIAGRAM - LED BOARD



LAYOUT DIAGRAM - LED BOARD



CIRCUIT DIAGRAM - ECO6 SYSTEM CENELEC BOARD

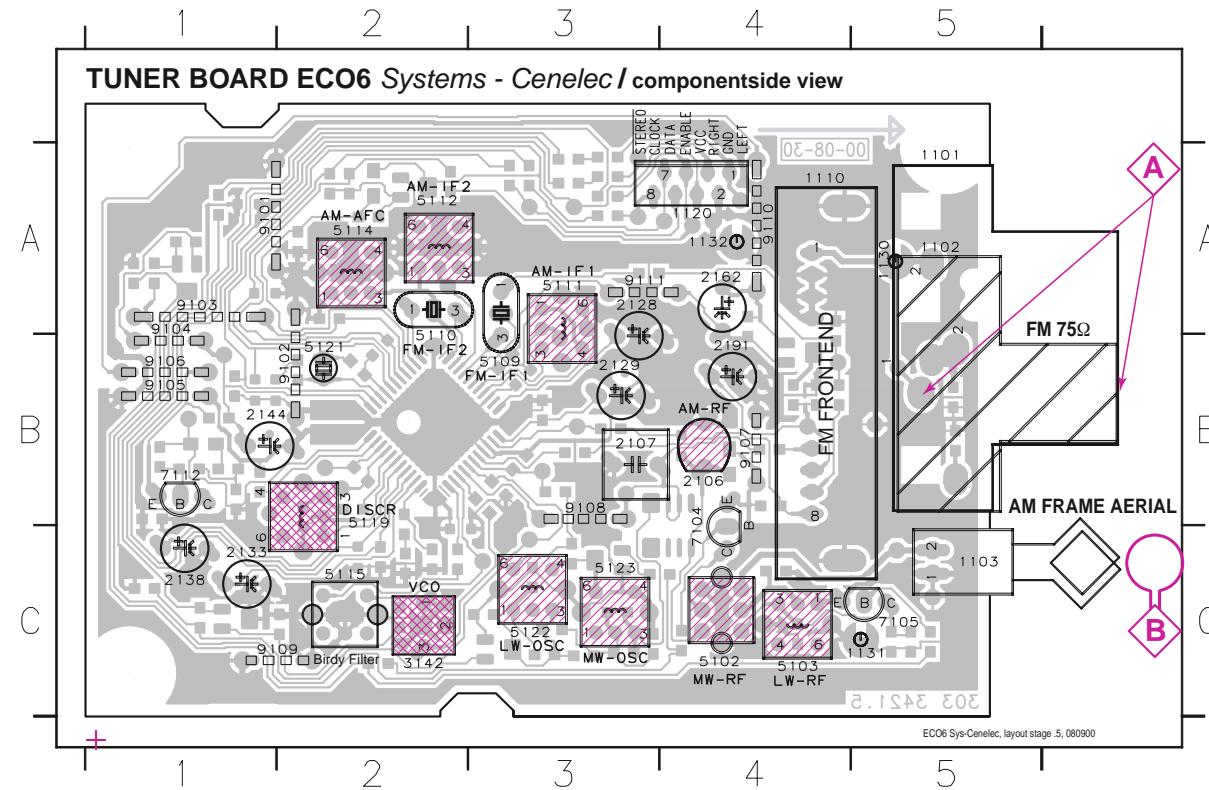


1101 A2	6106 D4
1102 B1	6107 G13
1110 B2	7101 C8
1120 E14	7103 H8
1130 A2	7104 D2
1131 C2	7105 F4
1132 F13	7109 H3
2102 B1	7110 H12
2106 E3	7111 C13
2107 E4	7112 G12
2108 G3	7124 H7
2109 G3	7102 B2
2118 H6	7103 B2
2119 H6	7104 B6
2120 H6	7105 E2
2122 I6	7106 E2
2123 H6	7107 C3
2124 H6	7109 D5
2125 H6	7110 D5
2127 E7	7111 E5
2128 B8	7112 A9
2129 C7	7113 F11
2130 F11	7114 B11
2131 F8	7117 F13
2132 F8	7118 F13
2134 I8	7120 F13
2135 I9	7121 F13
2136 H14	7122 E13
2137 H13	7123 E13
2138 F9	7124 F14
2139 G9	7125 F14
2140 G9	7126 F13
2141 F10	7127 F13
2143 G12	7140 F11
2144 G11	7141 F10
2145 E12	7142 F10
2146 E12	
2147 E12	
2148 E12	
2149 H7	
2150 A10	
2159 D5	
2161 C11	
2162 H12	
2163 D11	
2164 G10	
2165 C7	
2166 E11	
2167 E11	
2169 G8	
2190 C3	
2191 C3	
3105 D5	
3108 D2	
3109 G4	
3123 H3	
3125 H2	
3128 H3	
3132 G4	
3134 H6	
3137 H7	
3141 E7	
3142 E6	
3143 G7	
3144 G8	
3145 F8	
3146 G13	
3150 H12	
3151 H12	
3152 G14	
3153 G13	
3154 F13	
3155 G12	
3156 C12	
3157 D12	
3158 E13	
3159 D13	
3160 D13	
3161 D13	
3167 F12	
3168 F11	
3169 E11	
3170 D12	
3171 G12	
3172 G12	
3176 H7	
3180 I3	
3191 B6	
3192 B6	
3193 B4	
3195 C4	
3196 C3	
4101 E2	
4102 F3	
4104 H5	
5102 E3	
5103 F2	
5109 B9	
5111 A9	
5114 B11	
5115 E7	
5119 G9	
5121 E11	
5122 H5	
5123 G5	
6105-1 E4	
6105-2 G6	

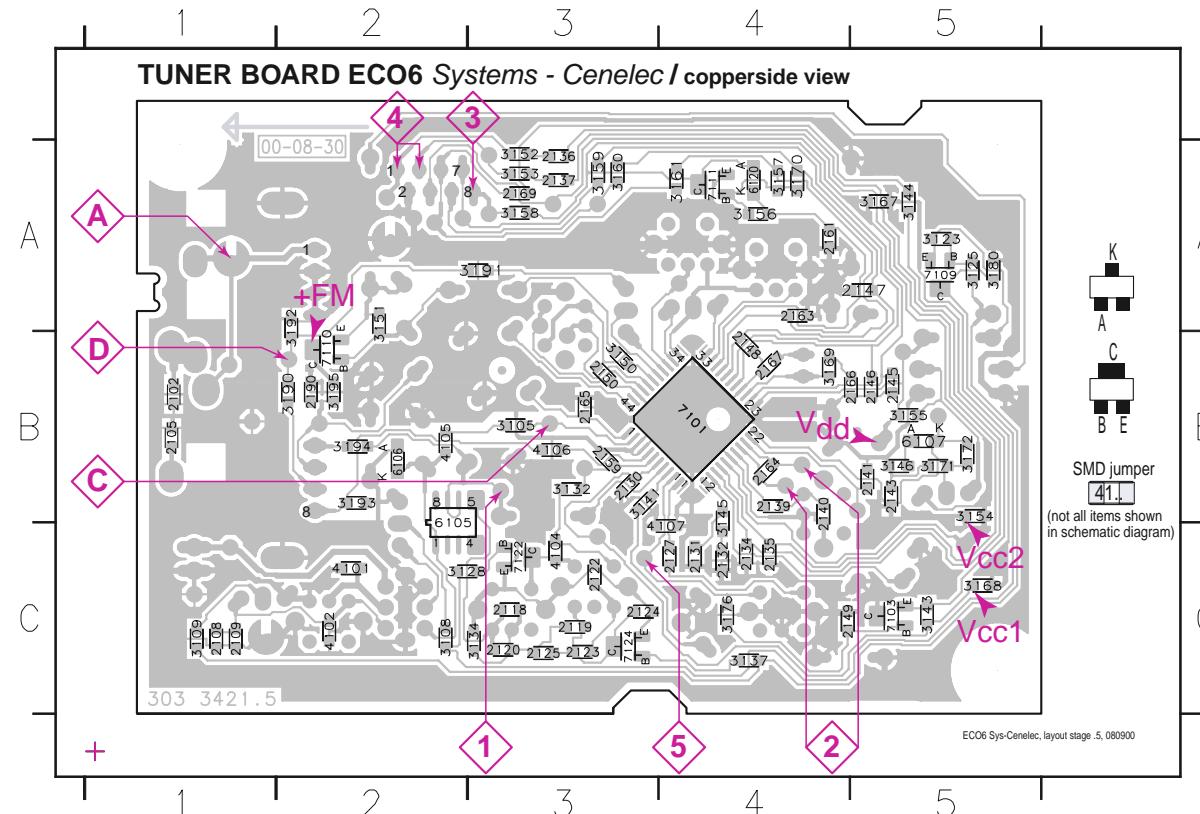
ECO6 Sys-Cenelec. 000907

LAYOUT DIAGRAM - ECO6 SYSTEM CENELEC BOARD

1101 B5 1110 B4 1131 C5 2107 B3 2133 C1 2162 A4 5102 C4 5110 A2 5114 A2 5121 B2 7104 C4 9101 A2 9104 B1 9107 B4 9110 A4
 1102 B5 1120 A4 1132 A4 2128 A3 2138 B1 2191 B4 5103 C4 5111 A3 5115 C2 5122 C3 7105 C5 9102 B2 9105 B1 9108 B3 9111 A3
 1103 C5 1130 A5 2106 B4 2129 B3 2144 B1 3142 C2 5109 B3 5112 A2 5119 B2 5123 C3 7112 B1 9103 A1 9106 B1 9109 C2



2102 B1 2120 C3 2130 B3 2137 A3 2146 B5 2161 A4 2169 A3 3125 A5 3143 C5 3152 A3 3158 A3 3169 B4 4101 C2 6105 B2 7109 A5
 2105 B1 2122 C3 2131 C4 2139 B4 2147 A5 2163 A4 2190 B2 3128 C2 3144 A5 3153 A3 3159 A3 3170 A4 3191 A3 4102 C2 6106 B2 7110 B2
 2108 C1 2123 C3 2132 C4 2140 B4 2148 B4 2164 B4 3105 B3 3132 C4 3145 C4 3154 B3 3160 A3 3171 B5 3192 A2 4104 C3 6107 B5 7111 A4
 2109 C1 2124 C3 2134 C4 2141 B5 2149 C4 2165 B3 3108 C2 3134 C3 3146 B5 3155 B3 3161 A4 3172 B5 3193 B2 4105 B3 6120 A4 7122 C3
 2118 C3 2125 C3 2135 C5 2143 B5 2150 B3 2166 B5 3109 C1 3137 C4 3150 B3 3156 A4 3167 A5 3176 C4 3194 B2 4106 B3 7101 B4 7124 C3
 2119 C3 2127 C4 2136 A3 2145 B5 2159 B3 2167 B4 3123 A5 3141 B3 3151 A2 3157 A4 3168 C5 3180 A5 3195 B2 4107 C4 7103 C5



TUNER ADJUSTMENT TABLE (ECO6 Cenelec 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 (50kHz grid)			108MHz	check		8V ±1.2V
			87.5MHz	check		1.6V ±0.5V
MW 531 - 1602kHz (9kHz grid)			1602kHz	5123		8V ±0.2V 3-band 6.9V ±0.2V 2-band
			531kHz	check		1.1V ±0.4V
LW 153 - 279kHz (3kHz grid)			279kHz	5122		8V ±0.2V
			153kHz	check		1.1V ±0.4V
FM - IF						
FM	10.7MHz, 45mV continuous wave	D	IC 7101 21 shortcircuit to block AFC	5119	2	0mV ±3mV
FM - VCO						
FM	98MHz, 1mV continuous wave	A	98MHz	3142	3	152kHz ±1kHz ¹⁾
FM RF (channel separation)						
Note: The FM-frontend unit has already been adjusted by the factory and needs therefore no further adjustments for service purposes.						
FM	98MHz, 1mV 90% Left + 9% pilot mod=1kHz	A	98MHz	IF coil inside FM frontend 1110	4	right channel min.
AM IF						
MW	450kHz connect pin 6 of IC 7101 (AM Osc.) with 3.3kΩ to Vcc	C Δf = ±10kHz V _{RF} = 0.5mV (as low as possible) see remark 2)	IC 7101 36 220R ±100nF	5111	5	max.
AM AFC MW		C continuous wave V _{RF} = 2mV	IC 7101 40 220R ±100nF	5112		symmetric
AM RF 3)						
MW	1494kHz	B	1494kHz	2106		
	558kHz		558kHz	5102		
LW	198kHz	B Δf = ±30kHz V _{RF} as low as possible	198kHz	5103	5	max.

Use Service Testprogram. By selecting the TUNER TEST test frequencies will be stored as preset frequencies automatically.

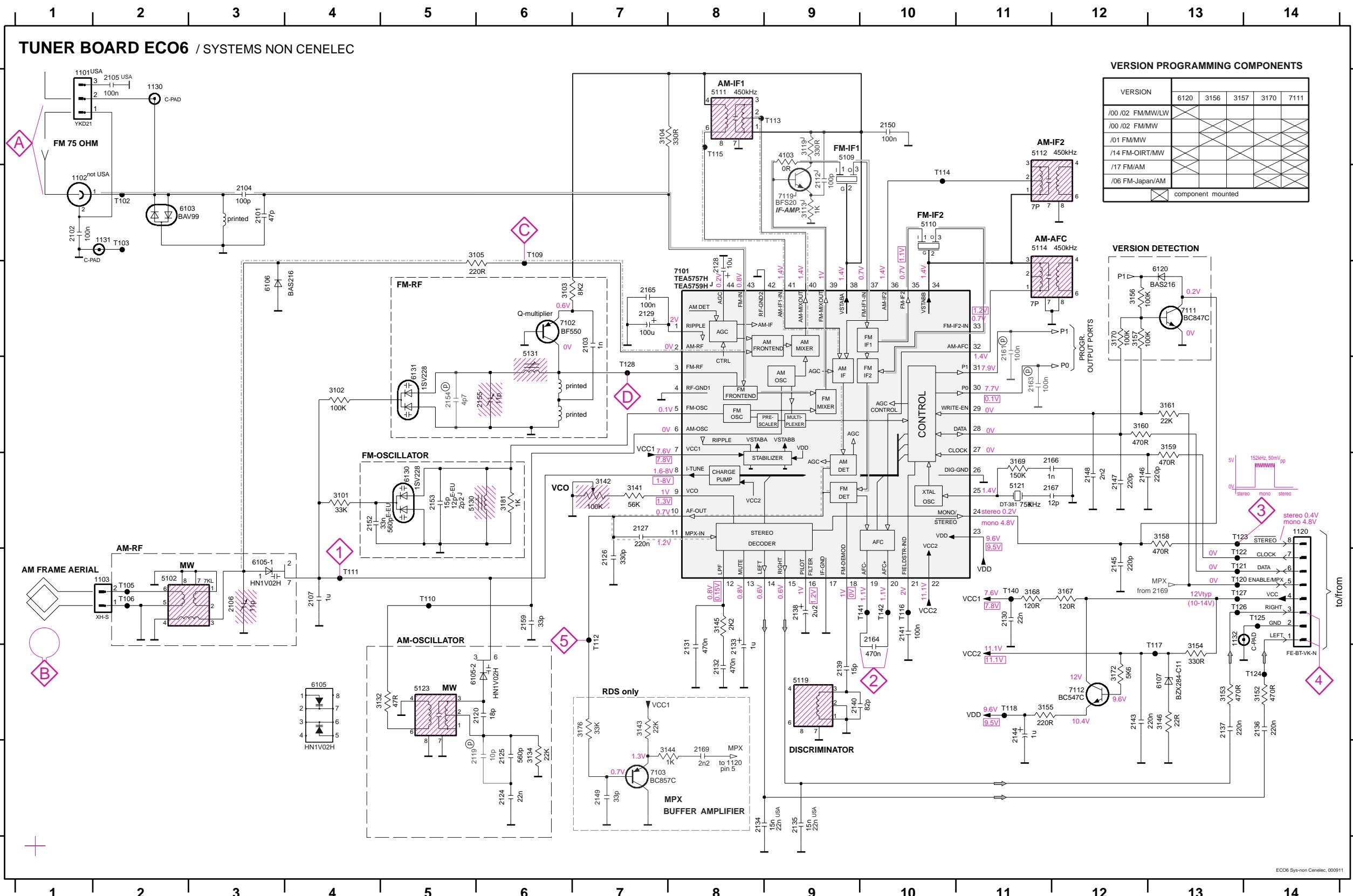
1) If sensitivity of frequency counter is too low adjust to max. channel separation
(input signal: stereo left 90% + 9%, adjust output on right channel to minimum)

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!
MW has to be aligned before LW.

Repeat

CIRCUIT DIAGRAM - ECO6 SYSTEM NON-CENELEC BOARD

**LEGEND**

①...for provision only
USA ... for USA version only
E-EU ... for East European version only
J ... for Japanese version only

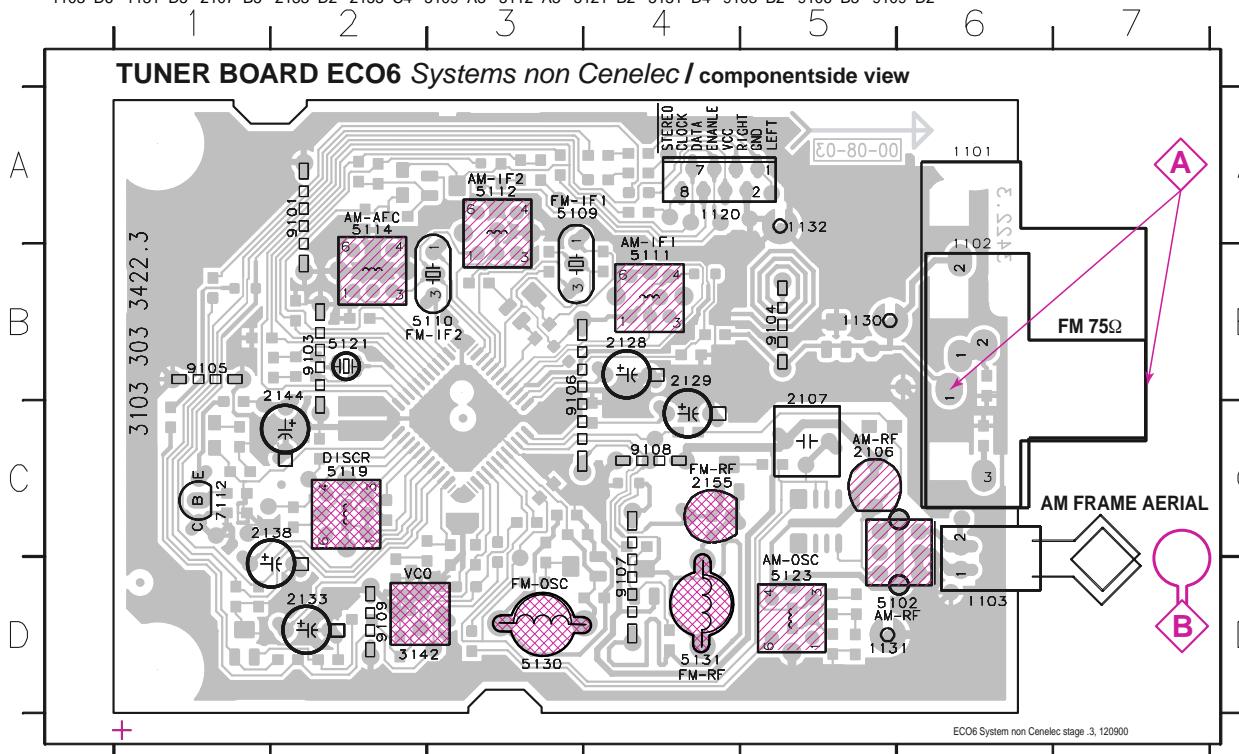
Signal path

- FM
- - AM
- - MPX (Audio Frequency)
- ➡ AF - left/right

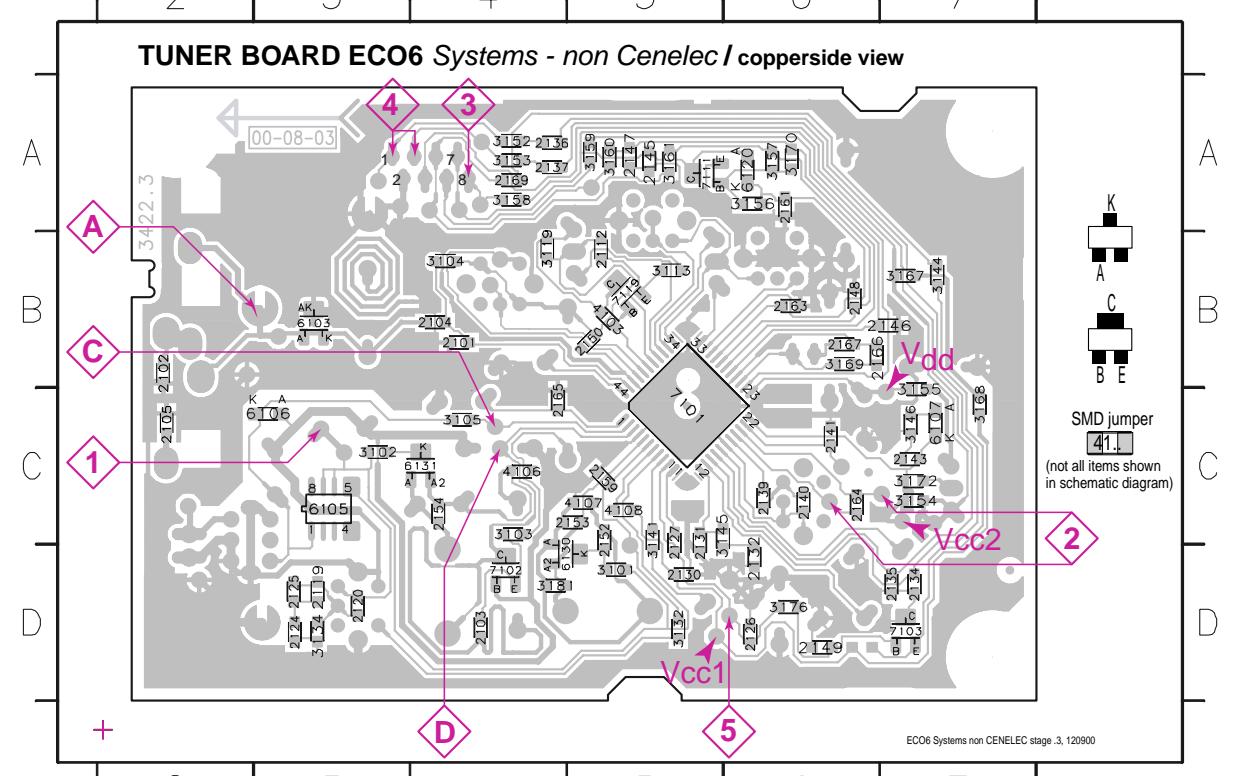
1101 A1
1102 B1
1103 F2
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1130 G2
1132 B2
1132 G13
2101 B3
2102 C7
2103 C7
2104 B3
2105 A2
2106 F3
2107 F4
2119 H6
2120 G6
2124 H6
2125 F7
2127 E7
2128 C8
2129 C7
2130 F11
2131 G8
2132 G9
2133 G8
2134 H8
2135 H9
2136 G14
2137 G13
2138 F9
2139 G9
2140 G9
2141 H10
2143 G12
2144 G11
2145 F12
2146 E12
2147 E12
2148 E12
2149 H7
2150 A10
2152 E4
2153 E5
2154 E5
2155 D5
2159 F6
2161 C11
2163 D11
2164 F10
2165 C7
2166 E11
2169 G6
3101 E4
3102 D4
3103 C6
3104 A7
3105 B6
3132 G5
3134 H6
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3142 E7
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3169 E11
3170 C12
3172 G12
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6130 E5
6131 G5
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764

LAYOUT DIAGRAM - ECO6 SYSTEM NON-CENELEC BOARD

1101	A6	1120	A4	1132	A5	2128	C4	2138	C2	3142	D2	5110	B3	5114	A2	5123	D5	7112	C1	9104	B5	9107	D4
1102	B6	1130	B5	2106	C5	2129	B4	2144	B2	5102	D6	5111	B4	5119	C2	5130	D3	9101	A2	9108	B1	9108	C4
1103	D6	1131	D5	2107	B5	2133	D2	2155	C4	5109	A3	5112	A3	5121	B2	5131	D4	9103	B2	9106	B3	9109	D2



2101	B4	2119	D3	2130	D5	2137	A4	2146	B7	2153	C5	2165	C4	3103	C4	3134	D3	3152	A4	3158	A4	3169	B6	4106	C4	6107	C7	7103	D7
2102	B1	2120	D3	2131	C5	2139	C6	2147	A5	2154	C4	2166	B6	3104	B4	3141	C5	3153	A4	3159	A5	3170	A6	4107	C5	6120	A6	7111	A5
2103	D4	2124	D3	2132	D6	2140	C6	2148	B6	2159	C5	167	B6	3105	C4	3143	D6	3154	C7	3160	A5	3172	C7	4108	C5	6130	D4	7119	B5
2104	B4	2125	D3	2134	D7	2141	C6	2149	D6	2161	A6	2169	A4	3113	B5	3144	B7	3155	C7	3161	A5	3176	D6	6103	B3	6131	C4		
2105	C1	2126	D6	2135	D7	2143	C7	2150	B5	2163	B6	3101	D5	3119	B5	3145	C5	3156	A6	3167	B7	3181	D4	6105	C3	7101	C5		
2112	B5	2127	C5	2136	A4	2145	A5	2152	C5	2164	C6	3102	C3	3132	D5	3146	C7	3157	A6	3168	C7	4103	B5	6106	C3	7102	D4		



These assembly drawings show a summary of all possible versions

For components used in a specific version see schematic diagram respectively partslist.

TUNER ADJUSTMENT TABLE (ECO6 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 IF						
FM	10.7MHz, 45mV continuous wave	D	IC 7101 shortcircuit to block AFC	2141	5119	2
						0 ± 3 mV DC
FM RF						
FM 87.5 - 108MHz (65.81 - 74, 87.5 - 108MHz)	108MHz	A	108MHz	2155	4	MAX
	87.5MHz (65.81MHz)	mod=1kHz $\Delta f = \pm 22.5\text{kHz}$	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 3.3kΩ to Vcc	C	IC 7101 $\Delta f = \pm 10\text{kHz}$ $V_{RF} = 0.5\text{mV}$ (as low as possible) see remark 2)	36 220R 100nF	5111	5
AM AFC MW		C	continuous wave $V_{RF} = 2\text{mV}$	40 220R 100nF	5112	
					5114	2
						0 ± 2 mV DC
AM RF ³⁾						
MW ⁴⁾ FM/MW/LW- and FM/MW-version (9kHz grid) 531 - 1602kHz	1494kHz	B	1494kHz	2106	5	
	558kHz		558kHz	5102		
LW	198kHz		198kHz	5103		
MW FM/AM-version, 10kHz grid 530 - 1700kHz	1500kHz		1500kHz	2106		
	560kHz		560kHz	5102		

Use Service Testprogram. 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)

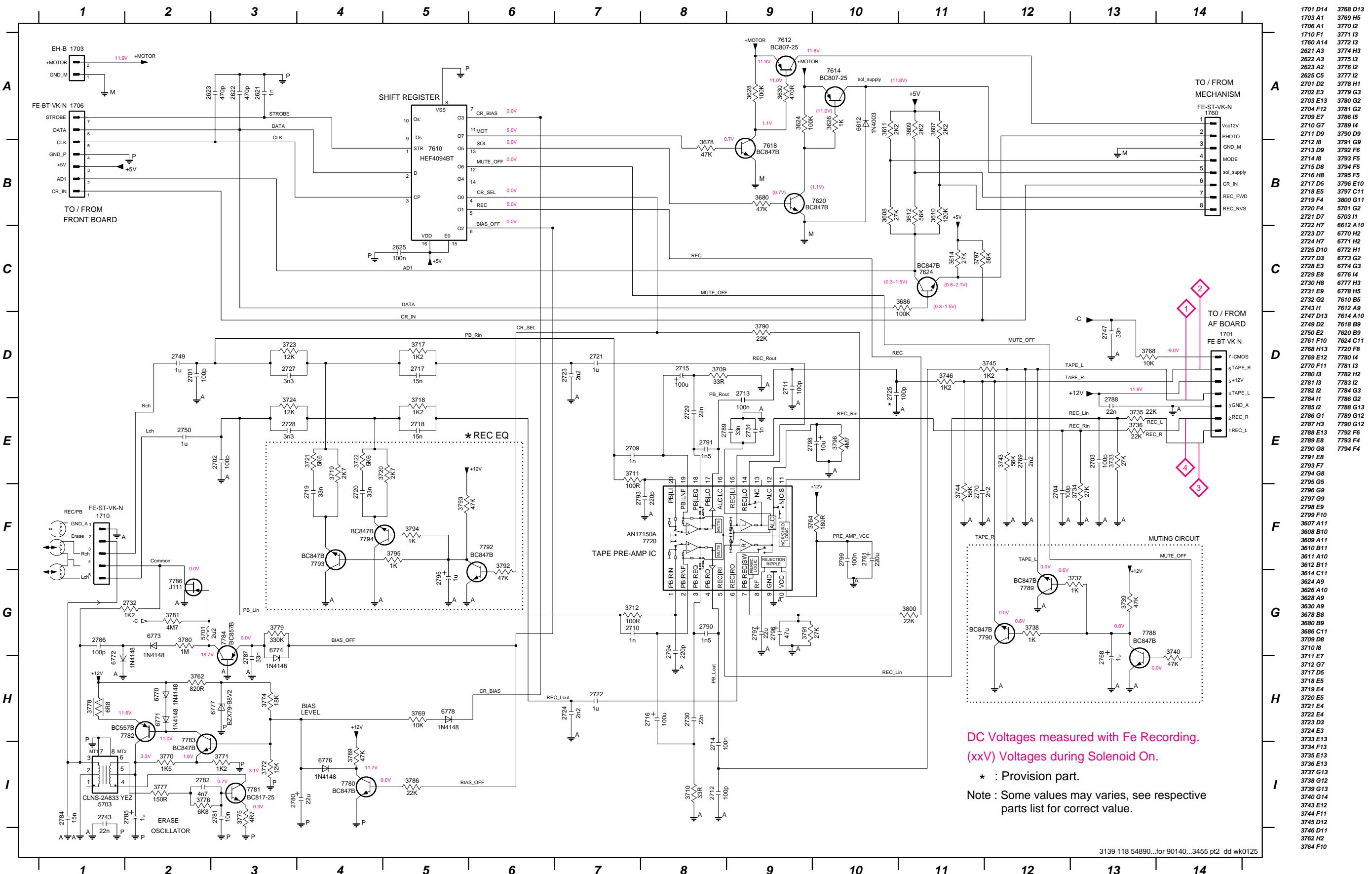
³⁾ For AM RF adjustments the original frame antenna has to be used!

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

4) MW has to be aligned before LW

Repeat

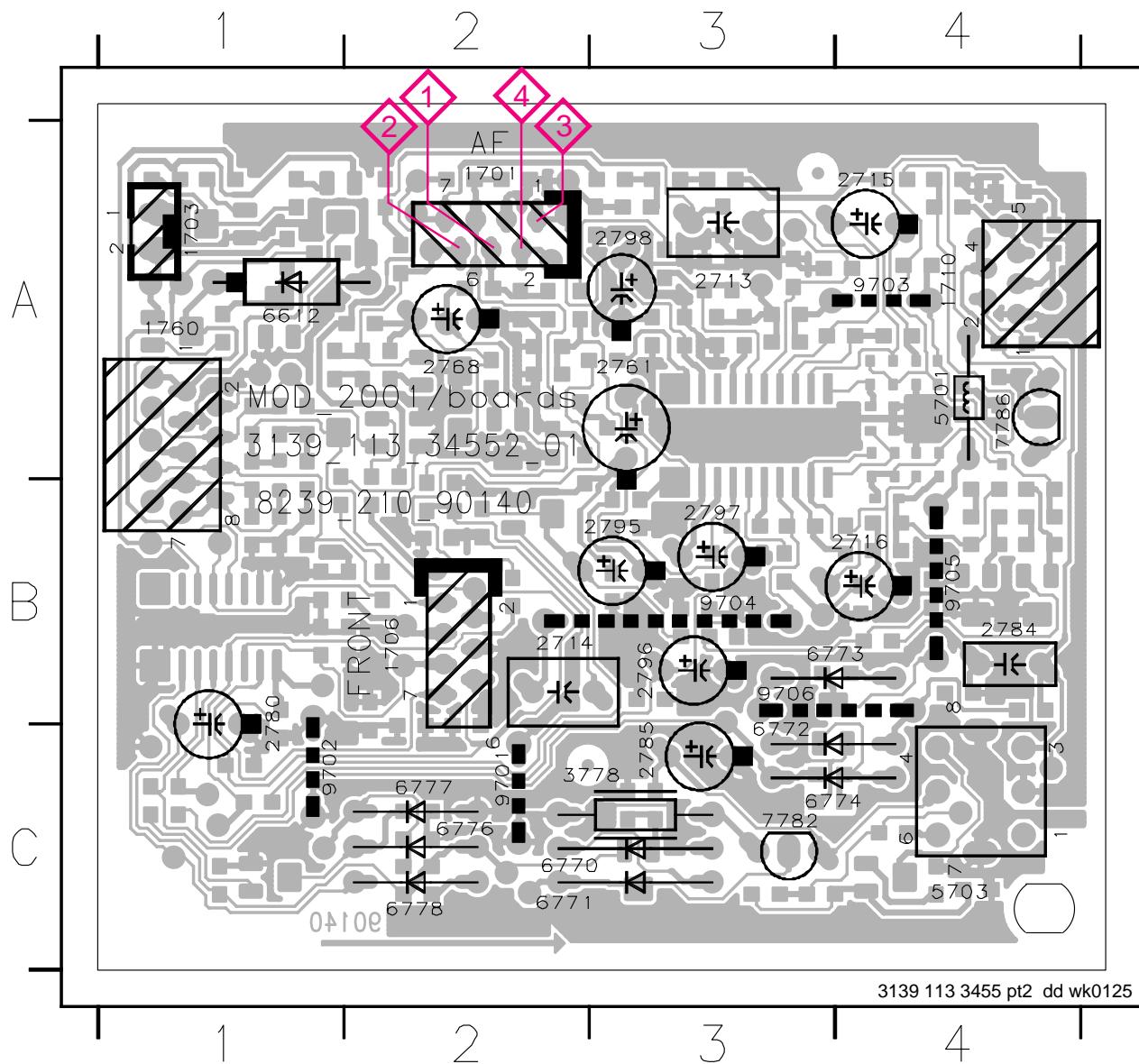
CIRCUIT DIAGRAM - ETF8 SD



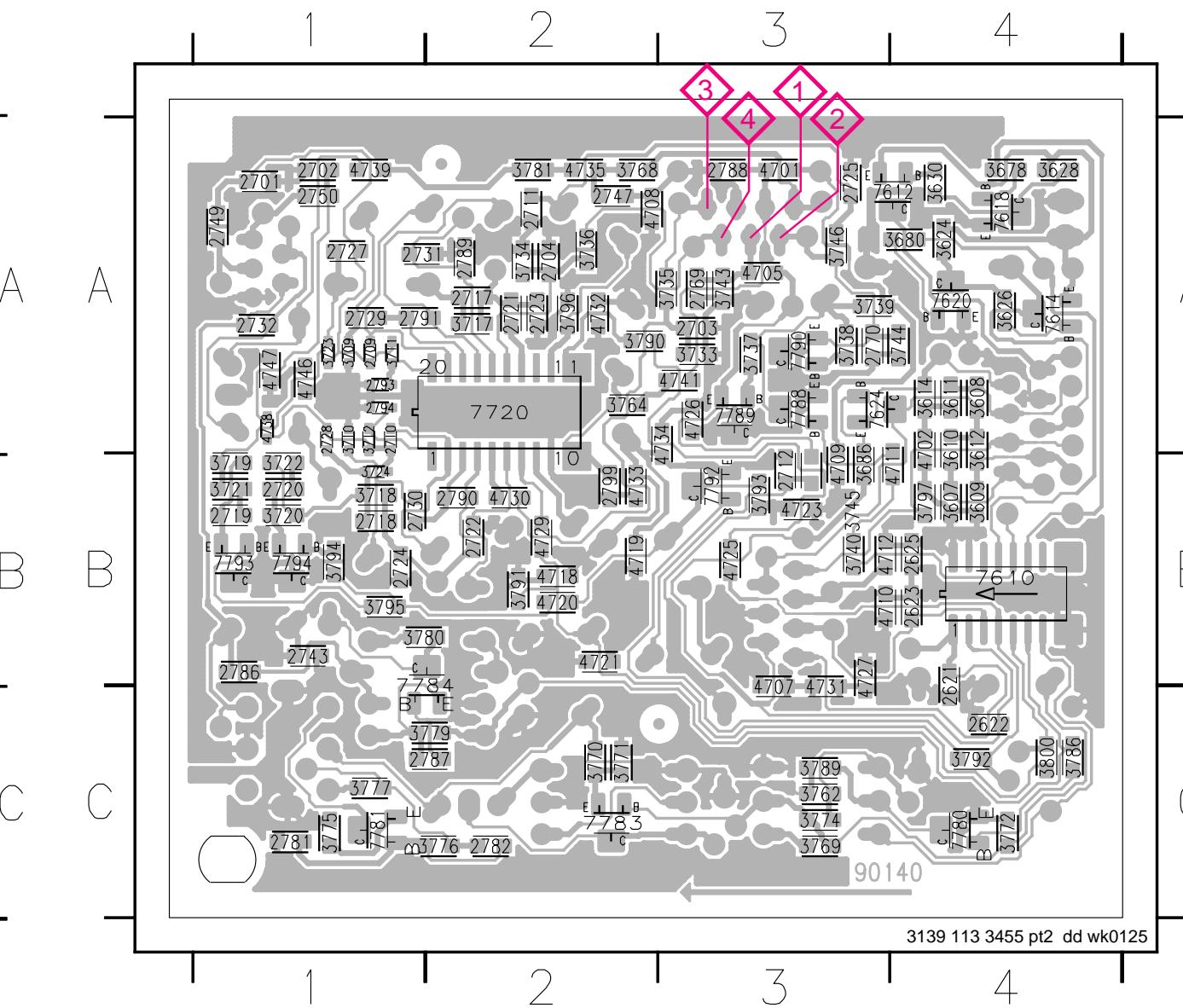
3139 118 54890...for 90140...3455 pl2 dd wk0125

LAYOUT DIAGRAM - ETF8 SD BOARD

1701 A2	2715 A4	2795 B3	6612 A1	6777 C2	9704 B3
1703 A1	2716 B4	2796 B3	6770 C2	6778 C2	9705 B4
1706 B2	2761 A3	2797 B3	6771 C2	7782 C3	9706 B3
1710 A4	2768 A2	2798 A3	6772 C3	7786 A4	
1760 A1	2780 B1	3778 C3	6773 B3	9701 C2	
2713 A3	2784 B4	5701 A4	6774 C3	9702 C1	
2714 B2	2785 C3	5703 C4	6776 C2	9703 A4	

**CHIP LAYOUT - ETF8 SD BOARD**

2621 B4	2729 A1	3609 B4	3724 B1	3777 C1	4712 B3	7614 A4
2622 C4	2730 B1	3610 A4	3733 A3	3779 C2	4718 B2	7618 A4
2623 B4	2731 A1	3611 A4	3734 A2	3780 B1	4719 B2	7620 A4
2625 B4	2732 A1	3612 A4	3735 A3	3781 A2	4720 B2	7624 A3
2701 A1	2743 B1	3614 A4	3736 A2	3786 C4	4721 B2	7720 A2
2702 A1	2747 A2	3624 A4	3737 A3	3789 C3	4723 B3	7780 C4
2703 A3	2749 A1	3626 A4	3738 A3	3790 A2	4725 B3	7781 C1
2704 A2	2750 A1	3628 A4	3739 A3	3791 B2	4726 A3	7783 C2
2709 A1	2769 A3	3630 A4	3740 B3	3792 C4	4727 B3	7784 B1
2710 A1	2770 A3	3678 A4	3743 A3	3793 B3	4729 B2	7788 A3
2711 A2	2781 C1	3680 A4	3744 A4	3794 B1	4730 B2	7789 A3
2712 B3	2782 C2	3686 B3	3745 B3	3795 B1	4731 C3	7790 A3
2717 A2	2786 B1	3709 A1	3746 A3	3796 A2	4732 A2	7792 B3
2718 B1	2787 C2	3710 A1	3762 C3	3797 B4	4733 B2	7793 B1
2719 B1	2788 A3	3711 A1	3764 A2	3800 C4	4734 A3	7794 B1
2720 B1	2789 A2	3712 A1	3768 A2	4701 A3	4735 A2	
2721 A2	2790 B2	3717 A2	3769 C3	4702 A4	4738 A1	
2722 B2	2791 A1	3718 B1	3770 C2	4705 A3	4739 A1	
2723 A2	2793 A1	3719 B1	3771 C2	4707 C3	4741 A3	
2724 B1	2794 A1	3720 B1	3772 C4	4708 A2	4746 A1	
2725 A3	2799 B2	3721 B1	3774 C3	4709 B3	4747 A1	
2727 A1	3607 B4	3722 B1	3775 C1	4710 B3	7610 B4	
2728 A1	3608 A4	3723 A1	3776 C2	4711 B4	7612 A4	



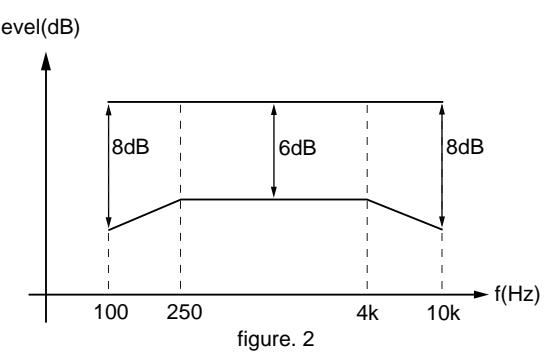
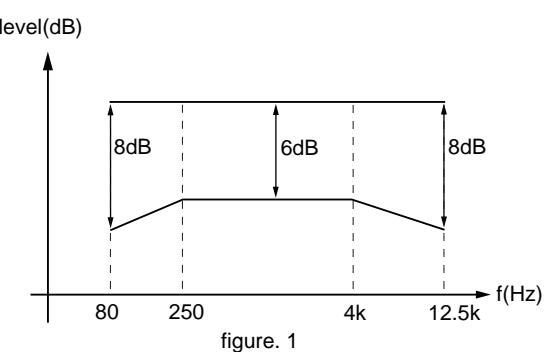
TAPE ADJUSTMENT & CHECK TABLE

	TEST CASSETTE	RECORDER MODE	MEASURE ON	READ ON	ADJUST	
					with	to
MOTOR SPEED	SBC420 3150Hz	PLAY	<div style="text-align: center;">1 or 2</div> <div style="display: flex; justify-content: space-around;">LEFTRIGHT</div>	frequency counter	check	3150Hz +/- 2%
WOW & FLUTTER	SBC420 3150Hz	PLAY		W&F-meter	check	< 0.4 % DIN
ADJUST AZIMUTH	SBC420 10kHz	PLAY FWD		mV-meter	left hand screw	max. output level & left=right
		PLAY REV ^			right hand screw	
PLAYBACK LEVEL & FREQ. RESPONSE	SBC420 315Hz	PLAY		mV-meter	check	125mV +/- 3dB (see fig.1 for freq. response)
CHECK RECORD/PLAYBACK FREQUENCY AND DISTORTION						
Inject 3mV signals 100Hz, 250Hz, 1kHz, 10kHz, 12.5kHz via <div style="display: inline-block; width: 1em; height: 1em; border: 1px solid black; border-radius: 50%; margin-right: 0.2em;"></div> 3 or <div style="display: inline-block; width: 1em; height: 1em; border: 1px solid black; border-radius: 50%; margin-right: 0.2em;"></div> 4	SBC419A or SBC420	RECORD				
	RECORDED CASSETTE	PLAY	<div style="display: inline-block; width: 1em; height: 1em; border: 1px solid black; border-radius: 50%; margin-right: 0.2em;"></div> 1 or <div style="display: inline-block; width: 1em; height: 1em; border: 1px solid black; border-radius: 50%; margin-right: 0.2em;"></div> 2 LEFT RIGHT	mV-meter	check	limits see fig. 2 *
Inject 1kHz 8.85mV via <div style="display: inline-block; width: 1em; height: 1em; border: 1px solid black; border-radius: 50%; margin-right: 0.2em;"></div> 3 or <div style="display: inline-block; width: 1em; height: 1em; border: 1px solid black; border-radius: 50%; margin-right: 0.2em;"></div> 4	SBC419A or SBC420	RECORD				
	RECORDED CASSETTE	PLAY	<div style="display: inline-block; width: 1em; height: 1em; border: 1px solid black; border-radius: 50%; margin-right: 0.2em;"></div> 1 or <div style="display: inline-block; width: 1em; height: 1em; border: 1px solid black; border-radius: 50%; margin-right: 0.2em;"></div> 2 LEFT RIGHT	THD-meter	check	< 3% *

SBC419A : 4822 397 30069
SBC420 : 4822 397 30071

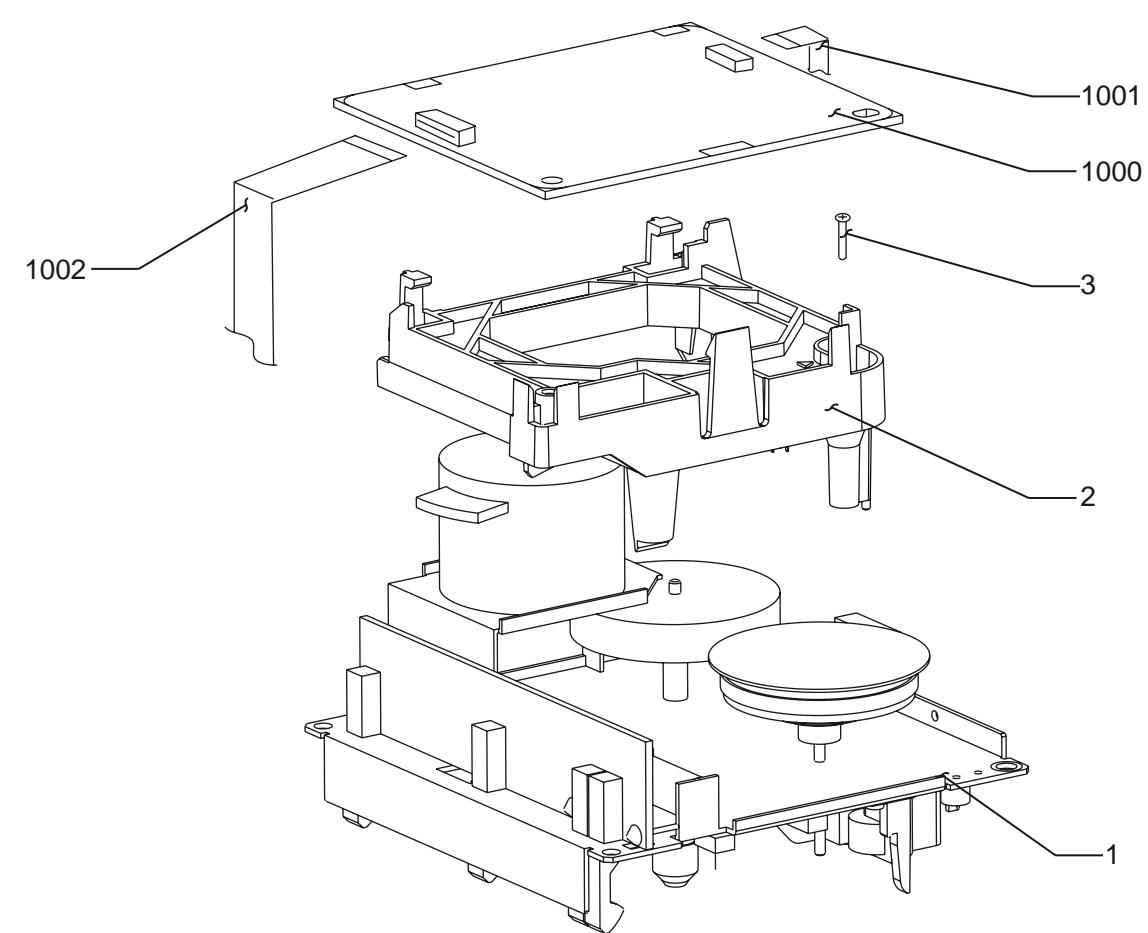
^ For Auto-reverse version only

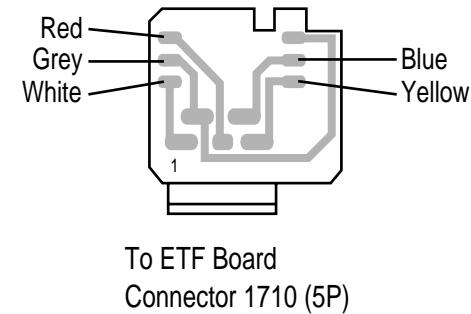
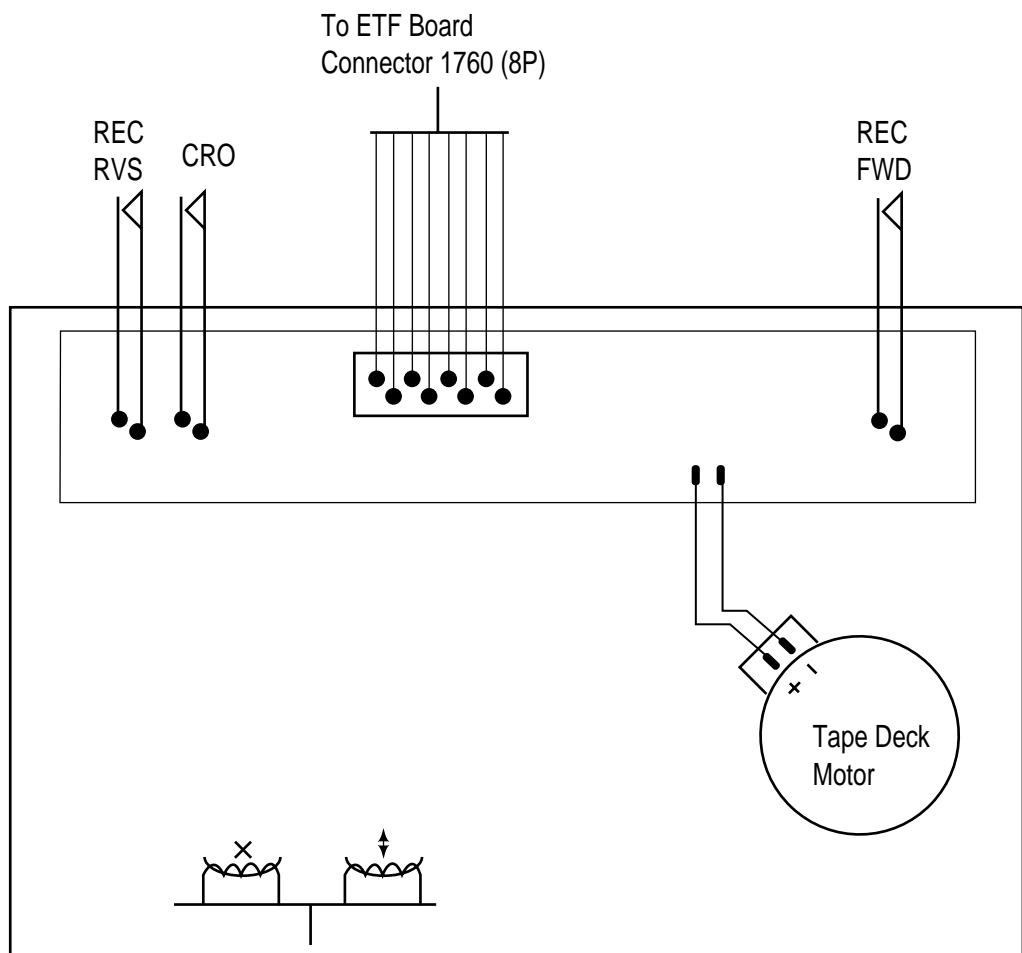
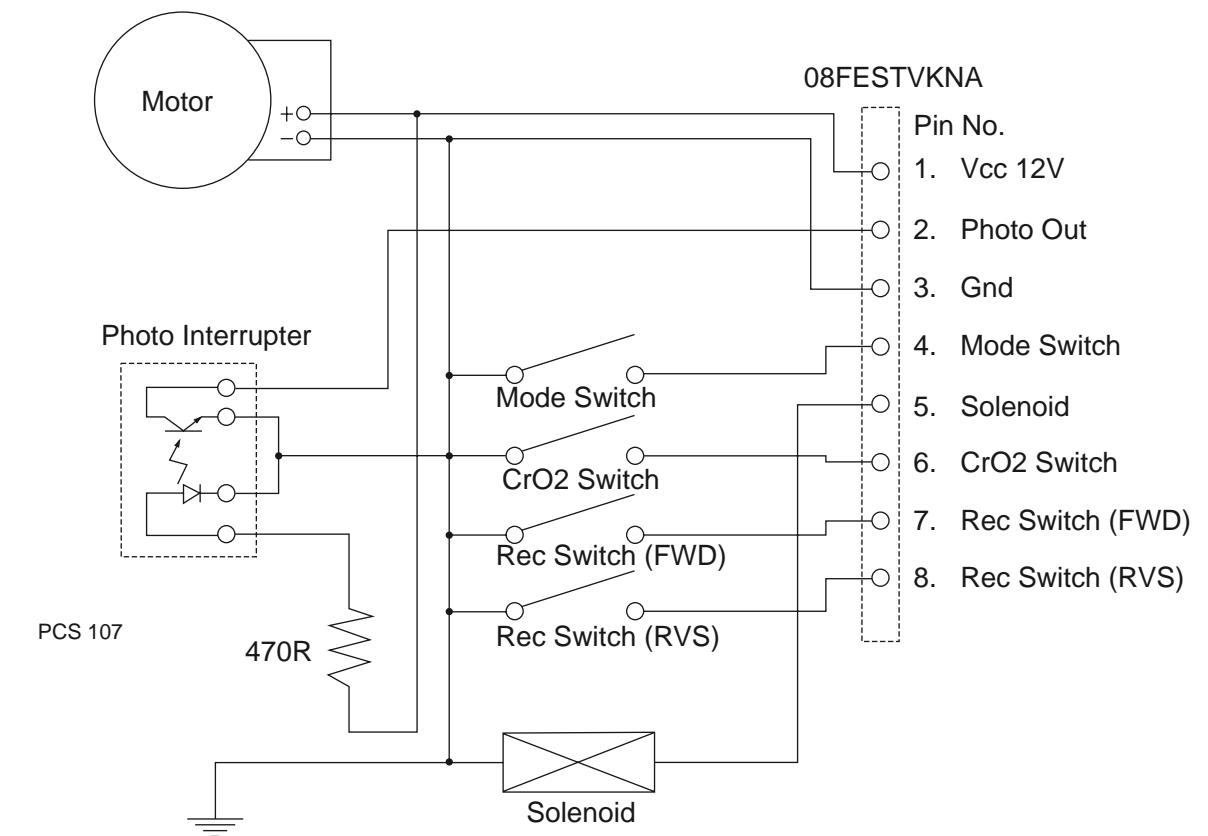
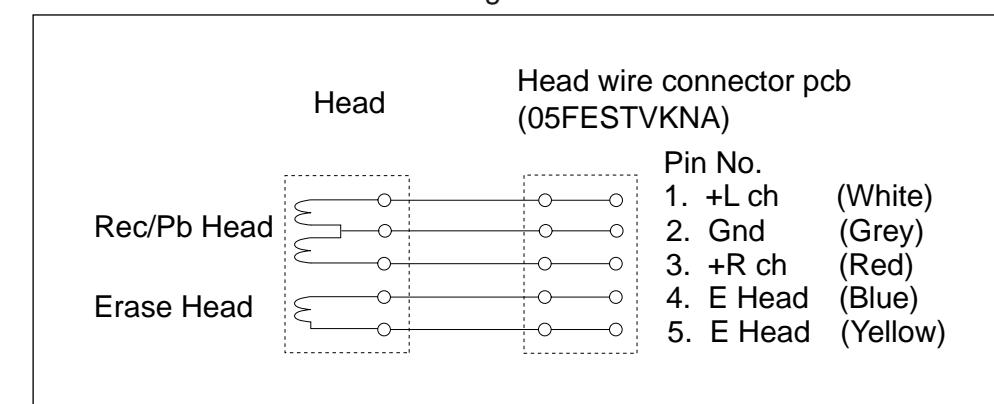
* If high frequencies are not within limits, decrease bias and re-measure.
If distortion is too high, increase bias and re-measure



3139 118 78730_Module Tape Deck ETF8 SD dd wk0125

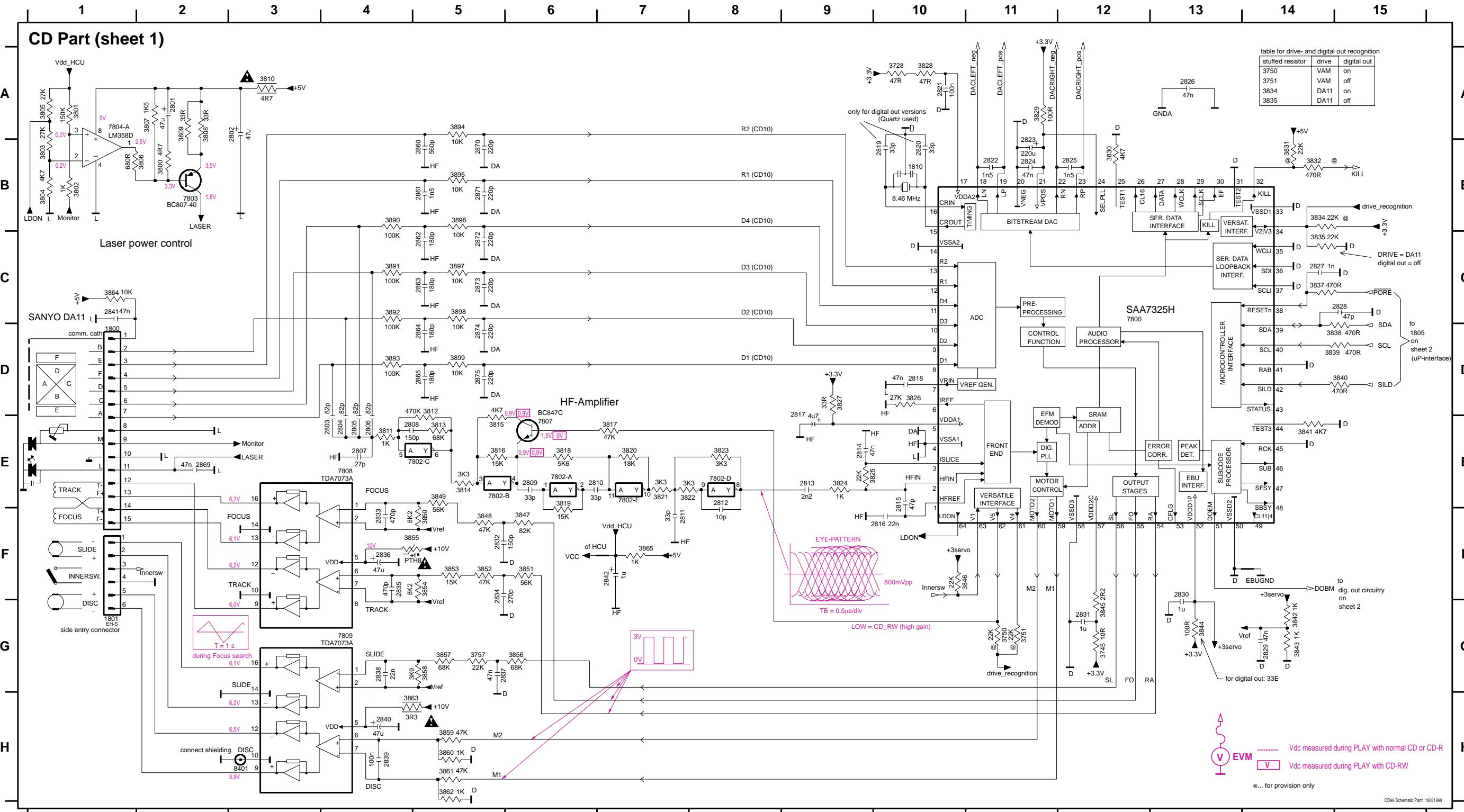
EXPLODED VIEW - TAPE MODULE



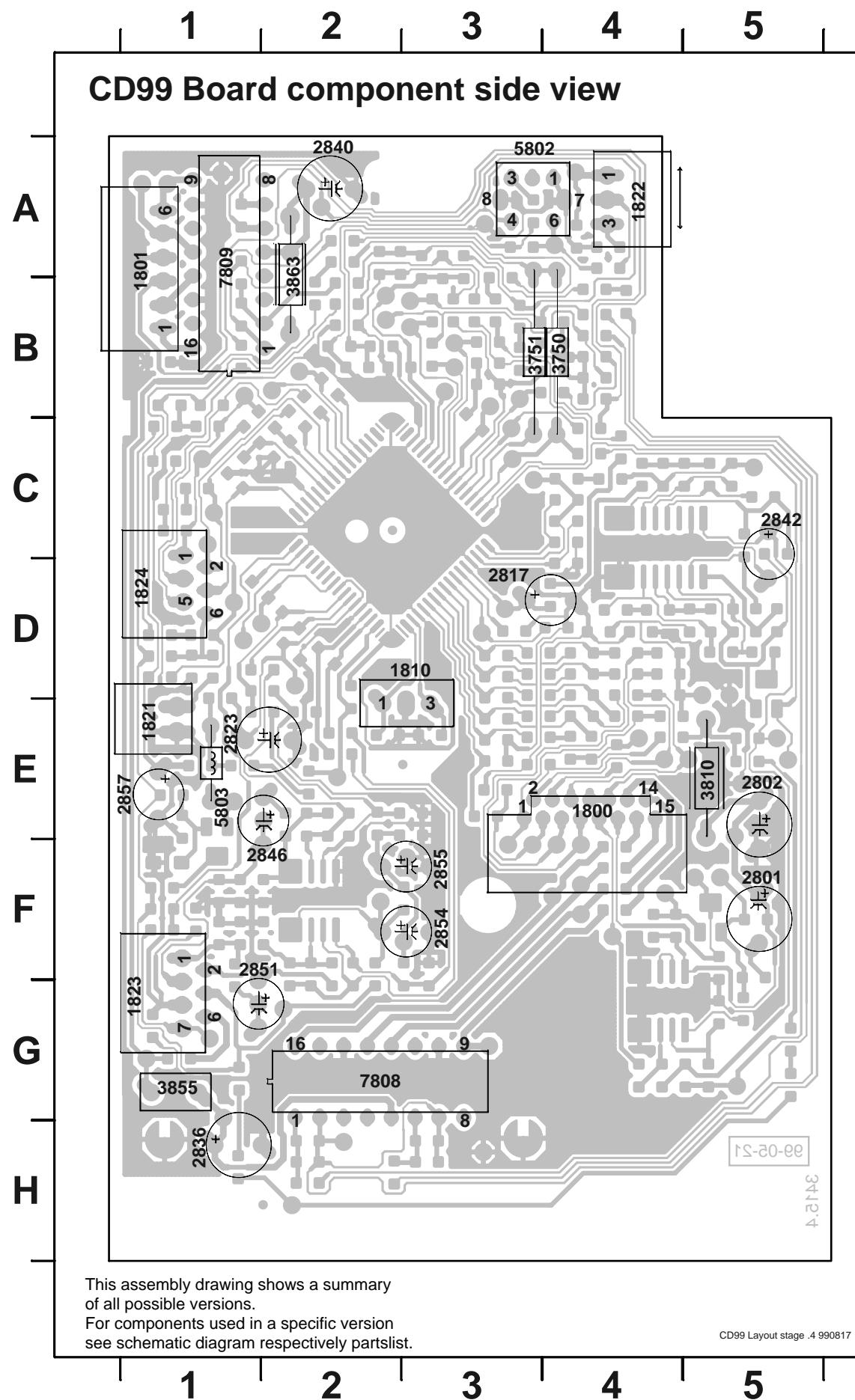
TAPE DECK WIRING**TAPE MECHANISM ELECTRONICS****Mechanism Head Wires Soldering**

CIRCUIT DIAGRAM - CD99/DA11 BOARD (Part 1)

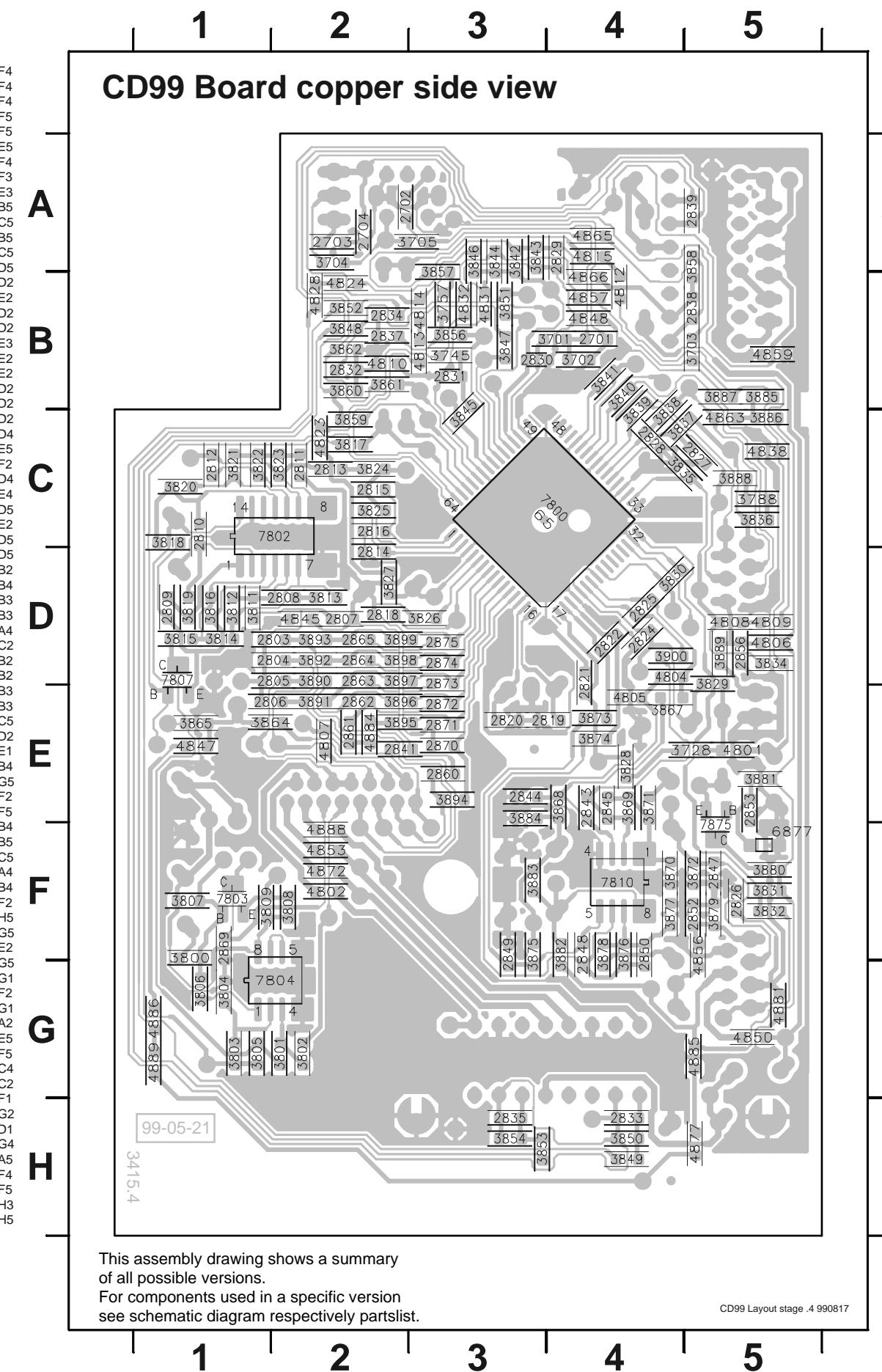
1800 D1	2806 E4	2813 E9	2820 B10	2827 C14	2834 F5	2841 C1	2865 D5	2875 D5	3801 A1	3808 A2	3815 E5	3822 E7	3829 A11	3838 D14	3845 G12	3852 F5	3859 H5	3890 B4	3897 C5	7802-D E8	7808 E4
1801 G1	2807 E4	2814 E9	2821 B11	2828 C14	2835 F4	2842 F7	2869 E2	3728 A10	3802 B1	3809 A2	3816 E5	3823 E8	3830 B12	3839 D14	3846 F10	3853 F5	3860 H5	3881 C4	3889 C5	7802-E E7	7809 G4
2801 A2	2808 E4	2815 E10	2822 B11	2829 G14	2836 F4	2860 B5	2870 B5	3745 G12	3803 B1	3810 A3	3817 E7	3824 E9	3831 B14	3840 D15	3847 F6	3854 F5	3861 H5	3882 C4	3889 D5	7802-F F8	8401 H3
2802 A3	2809 E6	2816 F10	2823 B11	2830 G13	2837 G5	2861 B5	2871 B5	3750 G11	3804 B1	3811 E4	3818 E6	3825 E9	3832 B14	3841 E14	3848 F5	3855 F4	3862 H5	3883 D4	3889 D5	7800 D12	7803 B2
2803 E4	2810 E6	2817 D9	2824 B11	2831 G12	2838 G4	2862 C5	2872 C5	3751 G11	3805 A1	3812 D5	3819 E6	3826 D10	3833 B14	3842 G14	3849 E5	3856 G6	3863 H4	3884 A5	3889 D5	7802-A E6	7804-A A1
2804 E4	2811 F7	2818 D9	2825 B12	2832 F5	2839 H4	2863 C5	2873 C5	3757 G5	3806 B2	3813 E5	3820 E7	3827 D9	3835 C14	3843 G14	3850 F5	3857 G5	3864 C1	3895 B5	7802-B E5	7804-B C3	
2805 E4	2812 E8	2819 B10	2826 A13	2833 F4	2840 H4	2864 D5	2874 D5	3800 B2	3807 A2	3814 E5	3821 E7	3828 A10	3837 C14	3844 G13	3851 F6	3858 G5	3865 F7	3896 B5	7802-C E5	7807 E6	



LAYOUT DIAGRAM - CD99/DA11 BOARD



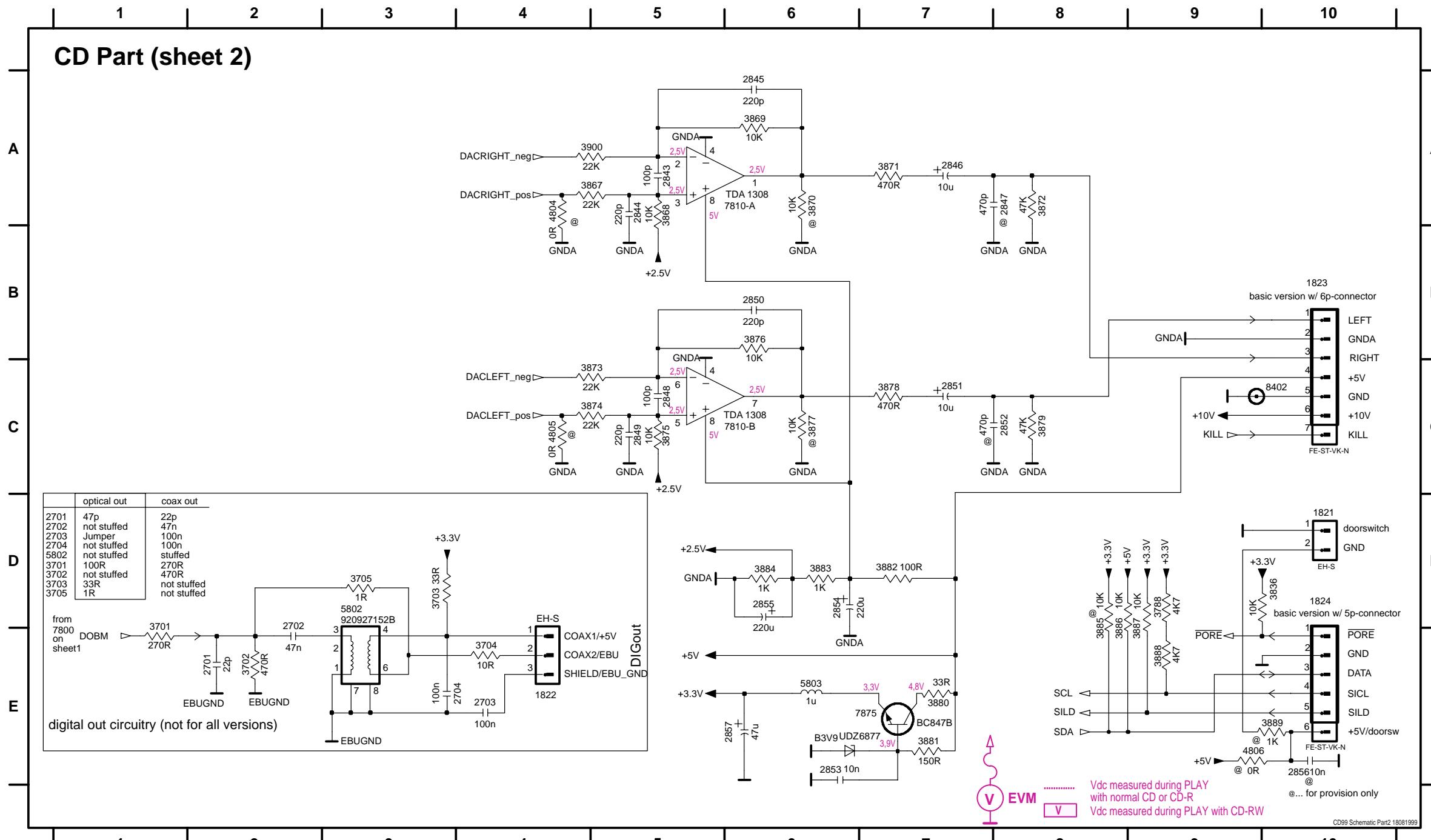
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	1801	A5	3704	A2	3877	F
	1810	D3	3705	A3	3878	F
	1821	E5	3728	E5	3879	F
	1822	A2	3745	B3	3880	F
A	1823	G5	3750	B2	3881	E
	1824	D5	3751	B2	3882	F
	2701	B4	3757	B3	3883	F
	2702	A2	3788	C5	3884	E
	2703	A2	3800	F1	3885	B
	2704	A2	3801	G2	3886	C
	2801	F1	3802	G2	3887	B
B	2802	E1	3803	G1	3888	C
	2803	D2	3804	G1	3889	D
	2804	D2	3805	G1	3890	D
	2805	D2	3806	G1	3891	E
	2806	E1	3807	F1	3892	D
	2807	D2	3808	F2	3893	D
	2808	D2	3809	F1	3894	E
	2809	D1	3810	E1	3895	E
C	2810	C1	3811	D1	3896	E
	2811	C2	3812	D1	3897	D
	2812	C1	3813	D2	3898	D
	2813	C2	3814	D1	3899	D
	2814	D2	3815	D1	3900	D
D	2815	C2	3816	D1	4801	E
	2816	C2	3817	C2	4802	F
	2817	D2	3818	C1	4804	D
	2818	D2	3819	D1	4805	E
	2819	E4	3820	C1	4806	D
	2820	E3	3821	C1	4807	E
	2821	D4	3822	C1	4808	D
	2822	D4	3823	C2	4809	D
	2823	E4	3824	C2	4810	B
	2824	D4	3825	C2	4812	B
	2825	D4	3826	D3	4813	B
	2826	F5	3827	D2	4814	B
	2827	C5	3828	E4	4815	A
	2828	C4	3829	D5	4823	C
E	2829	A4	3830	D4	4824	B
	2830	B3	3831	F5	4828	B
	2831	B3	3832	F5	4831	B
	2832	B2	3834	D5	4832	B
	2833	H4	3835	C4	4838	C
	2834	B2	3836	C5	4845	D
	2835	H3	3837	C4	4847	E
	2836	G5	3838	C4	4848	B
	2837	B2	3839	C4	4850	G
	2838	B5	3840	B4	4853	F
	2839	A5	3841	B4	4856	F
F	2840	A4	3842	A3	4857	B
	2841	E2	3843	A3	4859	B
	2842	C1	3844	A3	4863	C
	2843	E4	3845	C3	4865	A
	2844	E3	3846	A3	4866	B
	2845	E4	3847	B3	4872	F
	2846	E4	3848	B2	4877	H
	2847	F5	3849	H4	4881	G
	2848	F4	3850	H4	4884	E
	2849	F3	3851	B3	4885	G
	2850	F4	3852	B2	4886	G
G	2851	G4	3853	H3	4888	F
	2852	F5	3854	H3	4889	G
	2853	E5	3855	G5	5802	A
	2854	F3	3856	B3	5803	E
	2855	E3	3857	B3	6877	F
	2856	D5	3858	A5	7800	C
	2857	E5	3859	C2	7802	C
	2860	E3	3860	B2	7803	F
	2861	E2	3861	B2	7804	G
	2862	E2	3862	B2	7807	D
H	2863	D2	3863	A4	7808	G
	2864	D2	3864	E1	7809	A
	2865	D2	3865	E1	7810	F
	2869	F1	3867	E4	7875	F
	2870	E3	3868	E4	8401	H
	2871	E3	3869	E4	8402	H
	2872	E3	3870	F4		
	2873	D3	3871	E4		
	2874	D3	3872	F5		
	2875	D3	3873	E4		
	3701	B4	3874	E4		
	3702	B4	3875	F3		



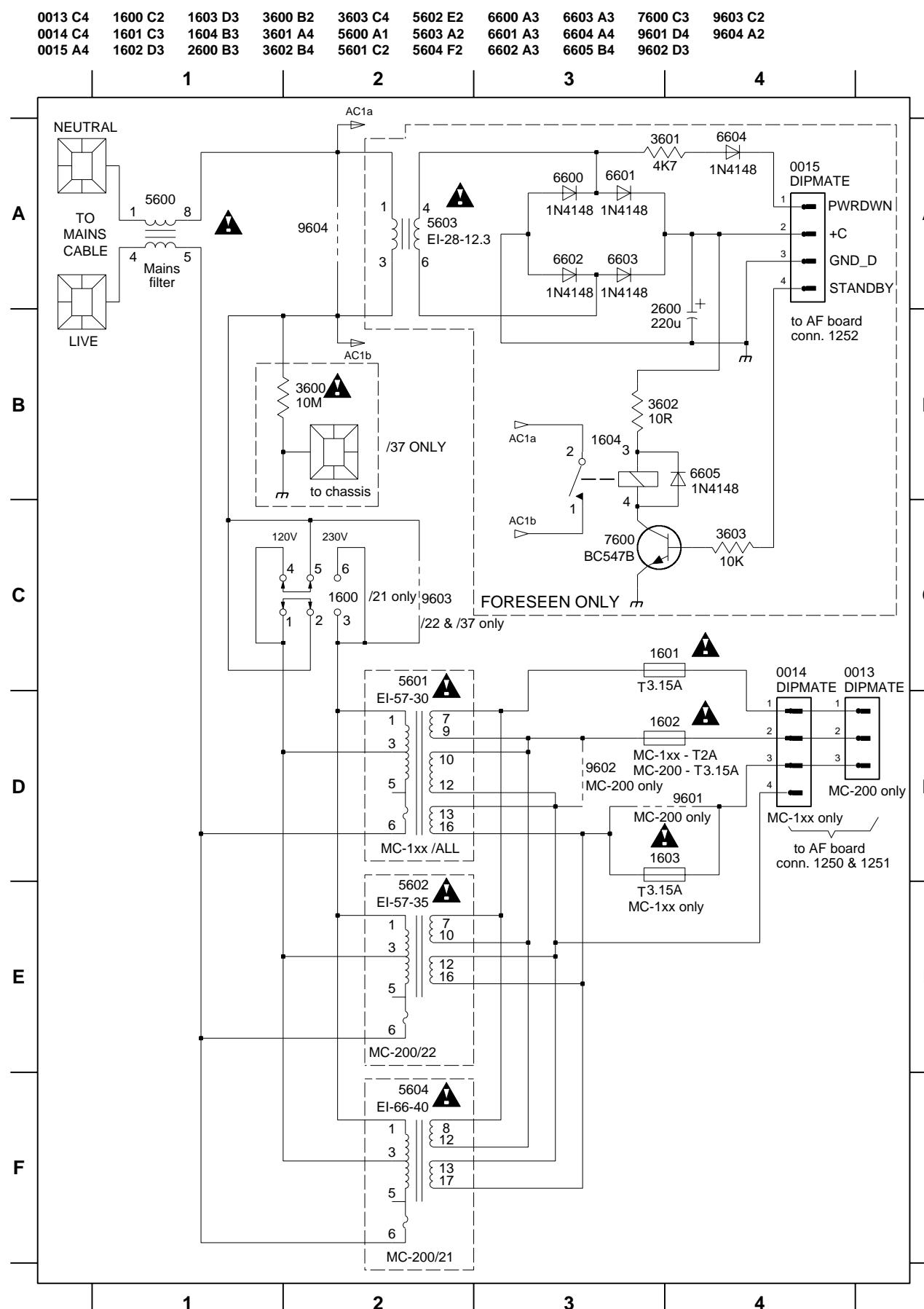
This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram respectively partslist.

CIRCUIT DIAGRAM - CD99/DA11 BOARD (Part 2)

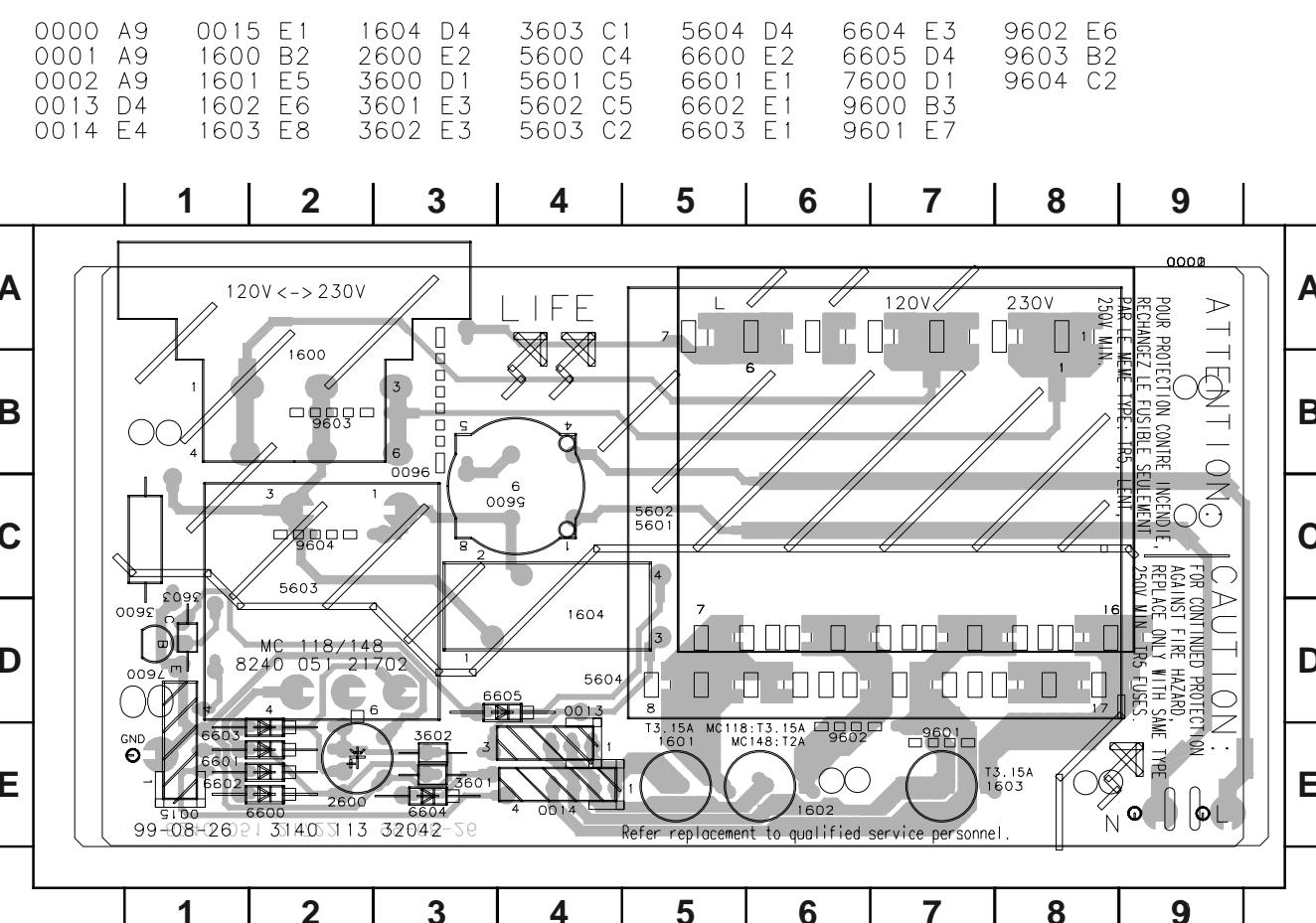
1821 D10	2702 E2	2845 A6	2850 B6	2855 D6	3703 D3	3867 A5	3872 A8	3877 C6	3882 D7	3887 E9	4805 C4	7810-A A5
1822 E4	2703 E4	2846 A7	2851 C7	2856 E10	3704 E4	3868 A5	3873 C5	3878 C7	3883 D6	3888 E9	4806 E9	7810-B C5
1823 B10	2704 E3	2847 A8	2852 C8	2857 E6	3705 D3	3869 A6	3874 C5	3879 C8	3884 D6	3889 E10	5802 D3	7875 E7
1824 D10	2843 A5	2848 C5	2853 E6	3701 E1	3788 E9	3870 A6	3875 C5	3880 E7	3885 E8	3900 A5	5803 E6	8402 C9
2701 E2	2844 A5	2849 C5	2854 D6	3702 E2	3836 D10	3871 A7	3876 B6	3881 E7	3886 E8	4804 A4	6877 E7	



CIRCUIT DIAGRAM - POWER BOARD

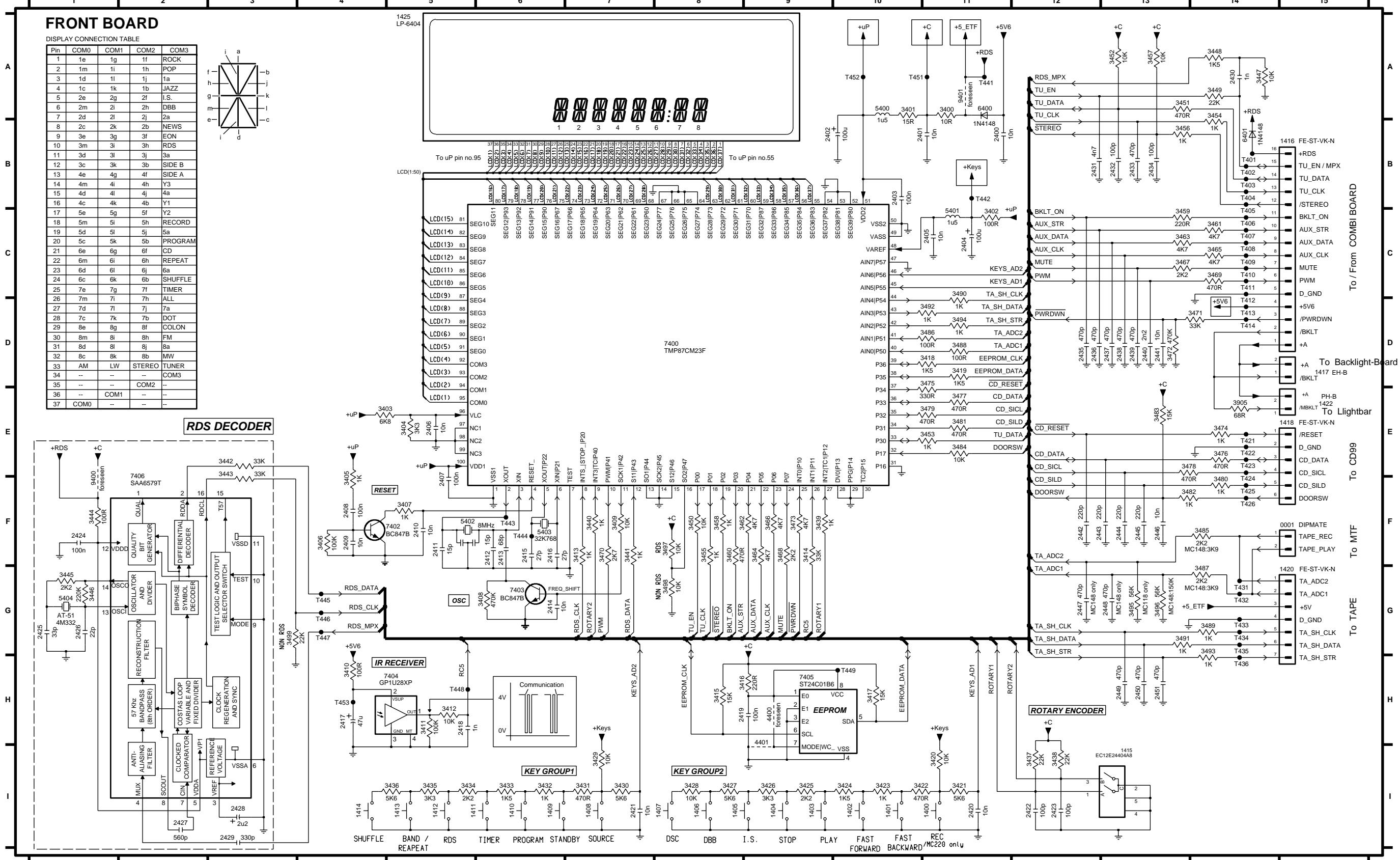


LAYOUT DIAGRAM - POWER BOARD

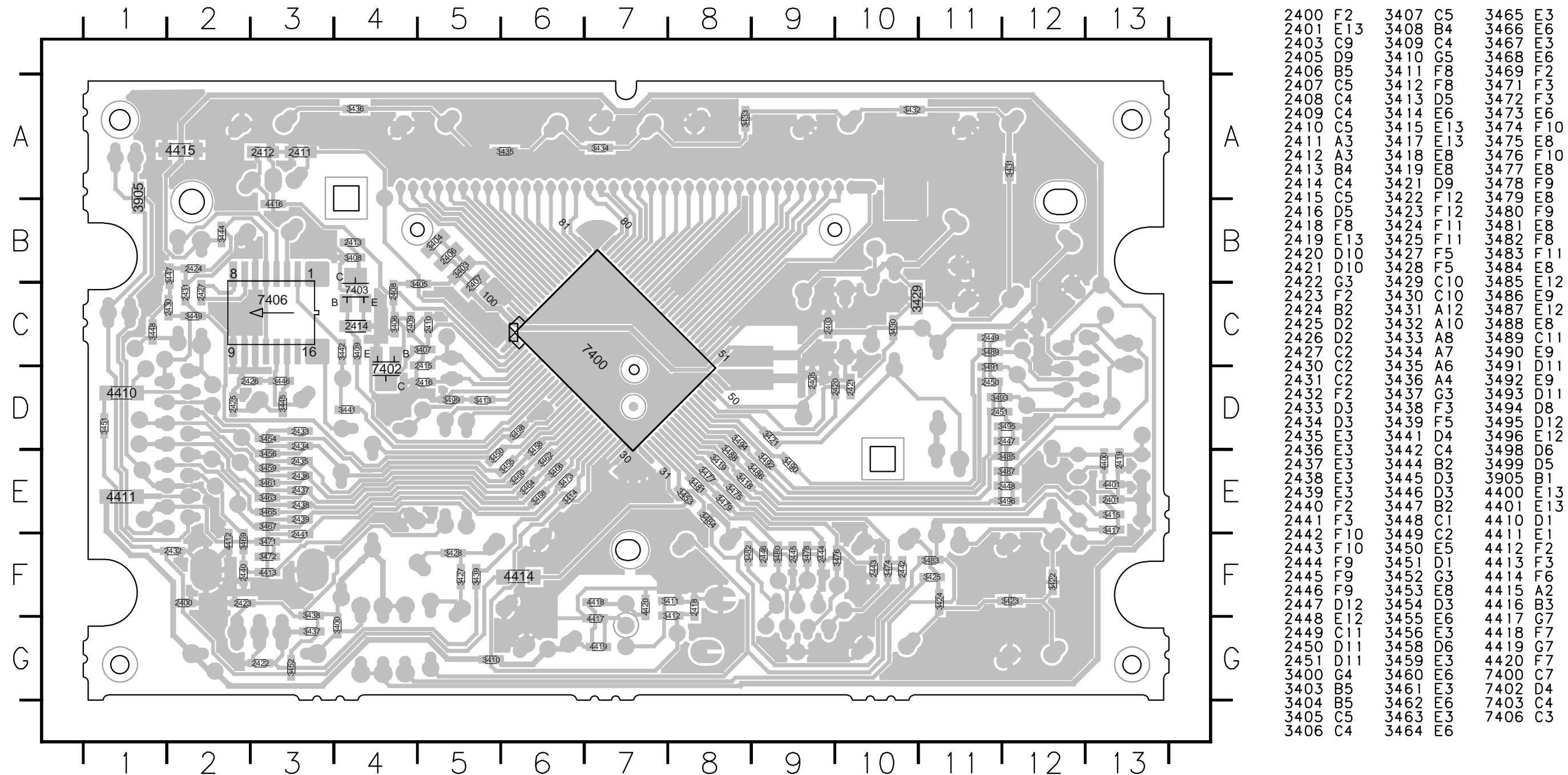


CIRCUIT DIAGRAM - FRONT BOARD

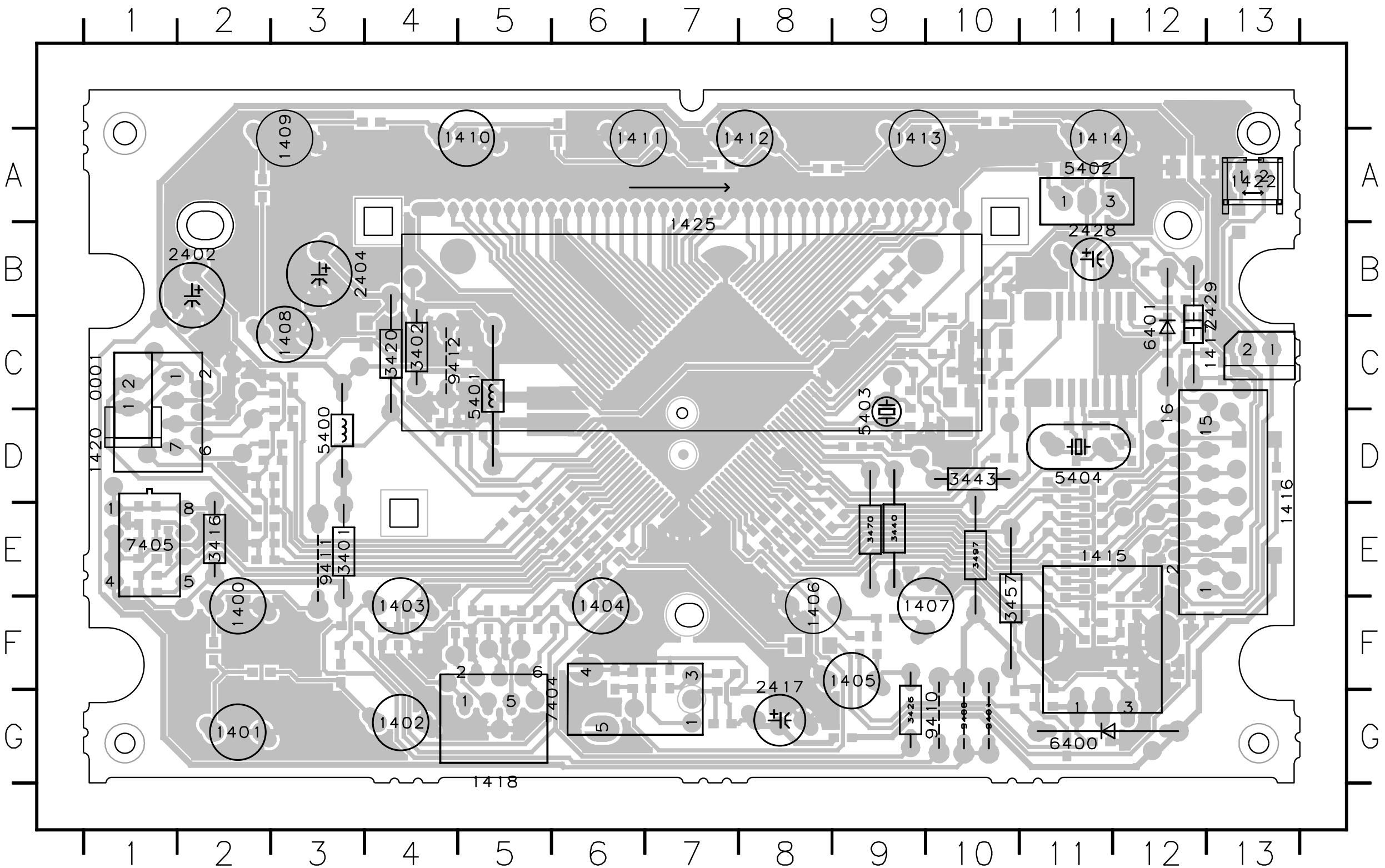
0001 F15	1406 I8	1413 I5	1422 E15	2405 C11	2412 F6	2419 H8	2426 G1	2433 B13	2440 D13	2447 G12	3402 C11	3409 F7	3416 H9	3423 I10	3430 I7	3437 H2	3444 F1	3451 A13	3458 F8	3465 C14	3472 D13	3479 E11	3486 D11	3493 G14	3905 E14	5404 G1	7405 H9	T404 B14	T411 C14	T424 F14	T435 G14	T446 G4
1400 I11	1407 I8	1414 I4	1425 A5	2406 E5	2413 F6	2420 H11	2427 I2	2434 B13	2441 D13	2448 G13	3403 E4	3410 H4	3417 H10	3424 I11	3431 I7	3438 H2	3445 G1	3452 A13	3459 C13	3466 F9	3473 F9	3480 F14	3487 G14	3494 D11	4400 H9	6400 A11	7406 F2	T405 C14	T412 D14	T425 F14	T436 H14	T447 G4
1401 I10	1408 I7	1415 I3	1426 A11	2407 F5	2414 G6	2421 I7	2428 I3	2435 D12	2442 F12	2449 H13	3404 E5	3411 H5	3418 D11	3425 I9	3432 I6	3439 F9	3446 G1	3453 E11	3460 F9	3467 C13	3474 E14	3481 E11	3488 D11	3495 G13	4401 I9	6401 B14	7406 F2	T405 C14	T412 D14	T426 F14	T441 A11	T448 H5
1402 I10	1409 I6	1416 B15	2401 B10	2408 F4	2415 F6	2422 H12	2429 I3	2436 D12	2443 F13	2450 H13	3405 F4	3412 H5	3419 D11	3426 I9	3433 I6	3440 F9	3447 A14	3454 A14	3461 C14	3468 F9	3475 D11	3482 F13	3489 G14	3496 G13	5400 A10	7400 D9	9401 A11	T407 C14	T414 D14	T431 G14	T442 B11	T449 H10
1403 I9	1410 I6	1417 D15	2402 B9	2409 F4	2416 F6	2423 H12	2430 A14	2437 D13	2444 F13	2451 H13	3406 F4	3413 F7	3420 I11	3427 I8	3434 I5	3441 F7	3448 A14	3455 F6	3462 F9	3469 C14	3476 E14	3483 E13	3490 C11	3497 F8	5401 C14	7402 F4	T401 B14	T408 C14	T421 E14	T432 G14	T451 A10	
1404 I9	1411 I5	1418 E15	2403 B10	2410 F5	2417 H4	2424 F1	2431 B12	2438 D13	2445 F13	2450 H11	3400 A11	3407 F5	3414 F9	3421 I11	3428 I8	3435 I5	3442 E3	3449 A14	3456 B13	3463 C13	3470 F7	3477 E11	3484 E11	3491 G13	3498 G8	5402 F5	7403 G6	T402 B14	T409 C14	T422 E14	T433 G14	T452 A10
1405 I8	1412 I5	1420 G15	2404 C11	2411 F15	2418 H5	2425 G1	2432 B13	2439 D13	2446 F13	2453 I10	3408 G6	3415 H6	3422 I10	3429 I7	3436 I5	3443 E3	3450 F8	3457 A13	3464 F9	3471 D14	3478 E13	3485 F14	3492 D11	3499 G3	5403 F6	7404 H5	T403 B14	T410 C14	T423 E14	T434 G14	T445 G4	



LAYOUT DIAGRAM- FRONT BOARD COPPER SIDE VIEW



LAYOUT DIAGRAM - FRONT BOARD
COMPONENT SIDE VIEW



CIRCUIT DIAGRAM - COMBI BOARD (PART 1)

1550 A1	2501 B9	2510 E9	2518 E11	2526 F13	2534 G14	2557 G6	2566 D6	3501 B9	3510 E9	3518 E12	3526 H12	3534 G13	3542 I14	3552 A3	3560 E3	3572 G7	3588 D8	7500-B F11	7504 E9	7512 H13	7556 D6	T503 C9	T556 B2	T565 E2	T573 G2	T581 I2	T589 H8	
1551 B2	2502 B10	2511 D10	2519 E12	2527 B13	2535 B8	2558 I6	2567 B7	3502 B10	3511 G10	3519 E12	3527 B12	3535 C14	3543 C14	3553 B3	3561 E2	3573 H8	3589 G7	7500-C F13	7505 D12	7513 B14	9551 C2	T504 E9	T557 C2	T566 F2	T574 G2	T582 I2	T590 H8	
1552 B2	2503 F14	2512 F10	2520 E12	2528 H13	2550 A2	2559 I6	2568 D7	3503 B10	3512 G10	3520 E12	3528 H12	3536 G14	3544 H14	3554 B3	3562 F2	3574 F6	3582 E6	5550 E3	7500-D F13	7506 F12	7514 H14	9552 D2	T558 C2	T567 E3	T575 H2	T583 I2	T591 H8	
1553 C2	2505 B8	2513 C10	2521 C12	2529 C14	2551 A2	2560 I7	2569 B7	3505 C8	3513 D11	3521 E13	3529 C12	3537 A13	3545 C13	3555 C3	3563 G4	3575 C5	3584 D7	5551 F3	7500-E D11	7507 C12	7550 H4	9553 D2	T551 A2	T559 D2	T568 F3	T576 H2	T584 I4	T592 I8
1554 D2	2506 B8	2514 G10	2522 G12	2530 G14	2552 B2	2561 G5	2570 D7	3506 E8	3514 F11	3522 E12	3530 G12	3538 H13	3546 G13	3556 B3	3565 I4	3576 C5	3584 D7	5552 C2	7500-F D10	7508 G12	7551 B4	9554 E3	T552 A2	T561 D2	T569 F2	T577 H2	T585 G5	T593 I8
1555 E2	2507 B9	2515 D11	2523 C12	2531 C13	2553 B1	2563 B5	2571 G7	3507 C9	3515 E11	3521 D12	3531 C12	3539 B14	3547 B15	3557 D3	3566 I4	3577 B6	3585 C7	6500 B11	7501 C8	7509 C12	7552 G7	9555 F3	T553 B2	T562 D2	T570 F2	T578 H2	T586 G7	T594 I8
1556 G2	2508 D9	2516 F11	2524 G12	2532 G13	2554 G4	2564 D5	2573 A4	3508 E9	3516 E11	3524 F12	3532 G12	3540 H14	3548 H15	3558 D3	3567 I4	3578 D6	3586 E7	6550 I4	7502 E8	7510 G12	7553 F5	T500 A8	T554 C2	T563 E2	T572 F2	T579 H2	T587 H8	T595 B7
2500 A8	2509 C9	2517 D11	2525 C13	2533 C14	2555 H3	2565 B6	3509 C9	3517 D12	3525 B12	3533 C13	3541 B14	3551 A3	3559 E3	3568 H5	3579 B6	3587 B7	7500-A F10	7503 C9	7511 B13	7555 B6	T501 B9	T555 C2	T564 E2	T572 F2	T579 H2	T588 H8	T596 D7	

COMBI BOARD

Source Selection / Sound Control part

SOURCE SELECTOR

from 7552 A1 A0

MSB LSB LOGIC

7551 HEF4052BP

ELECTRONIC VOLUME CONTROL

T500 +VS to 7500 pin 14

DIGITAL SOUND CONTROL (DSC)

BASS DBB

MC118 : 220k MC148 : 150k

3541 220k

3539 22k

BC847B 7511

3537 220k

3547 150k

BASS_ALC from Amplifier Part

A

A

B

B

C

C

D

D

E

E

F

F

G

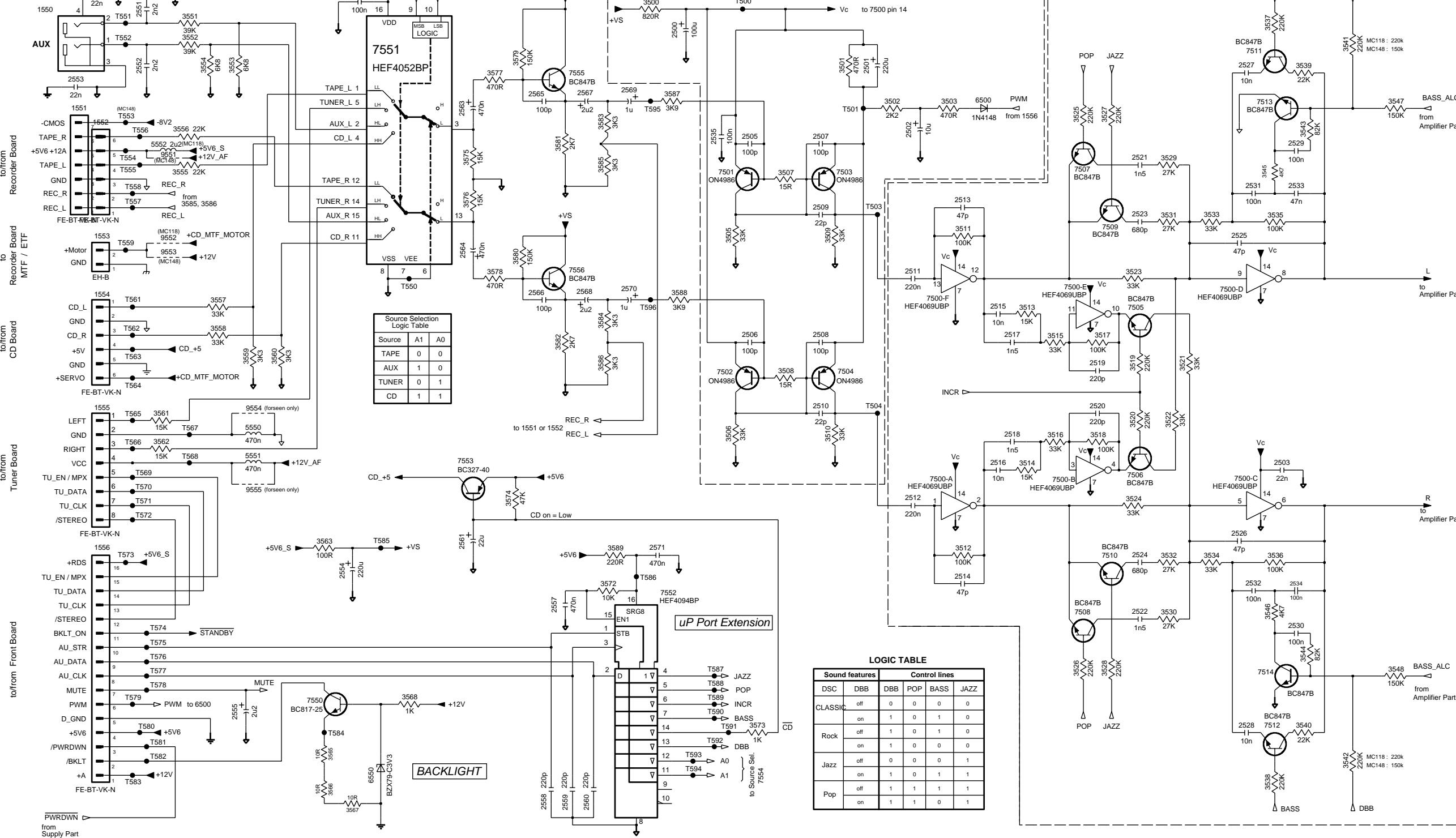
G

H

H

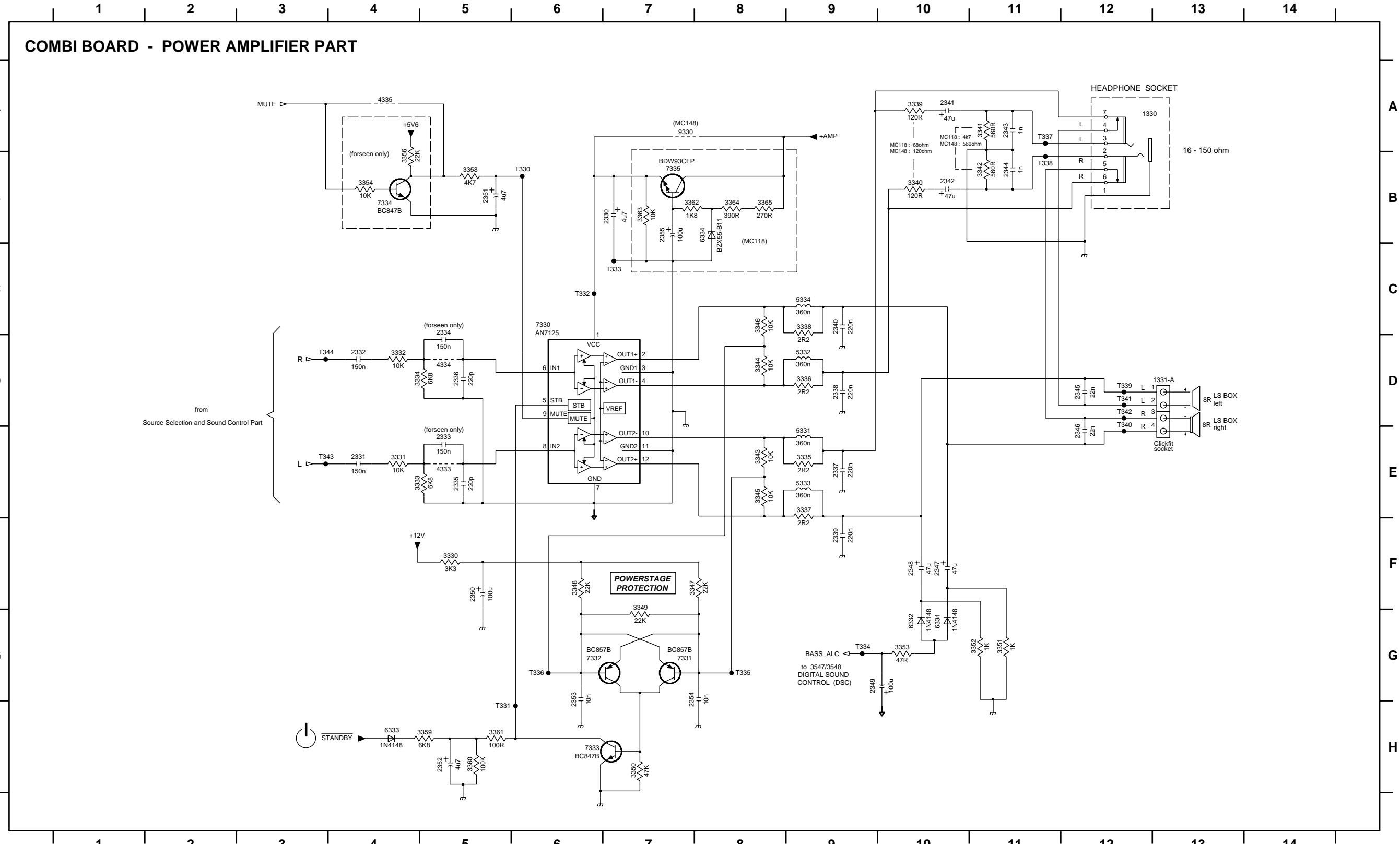
I

I



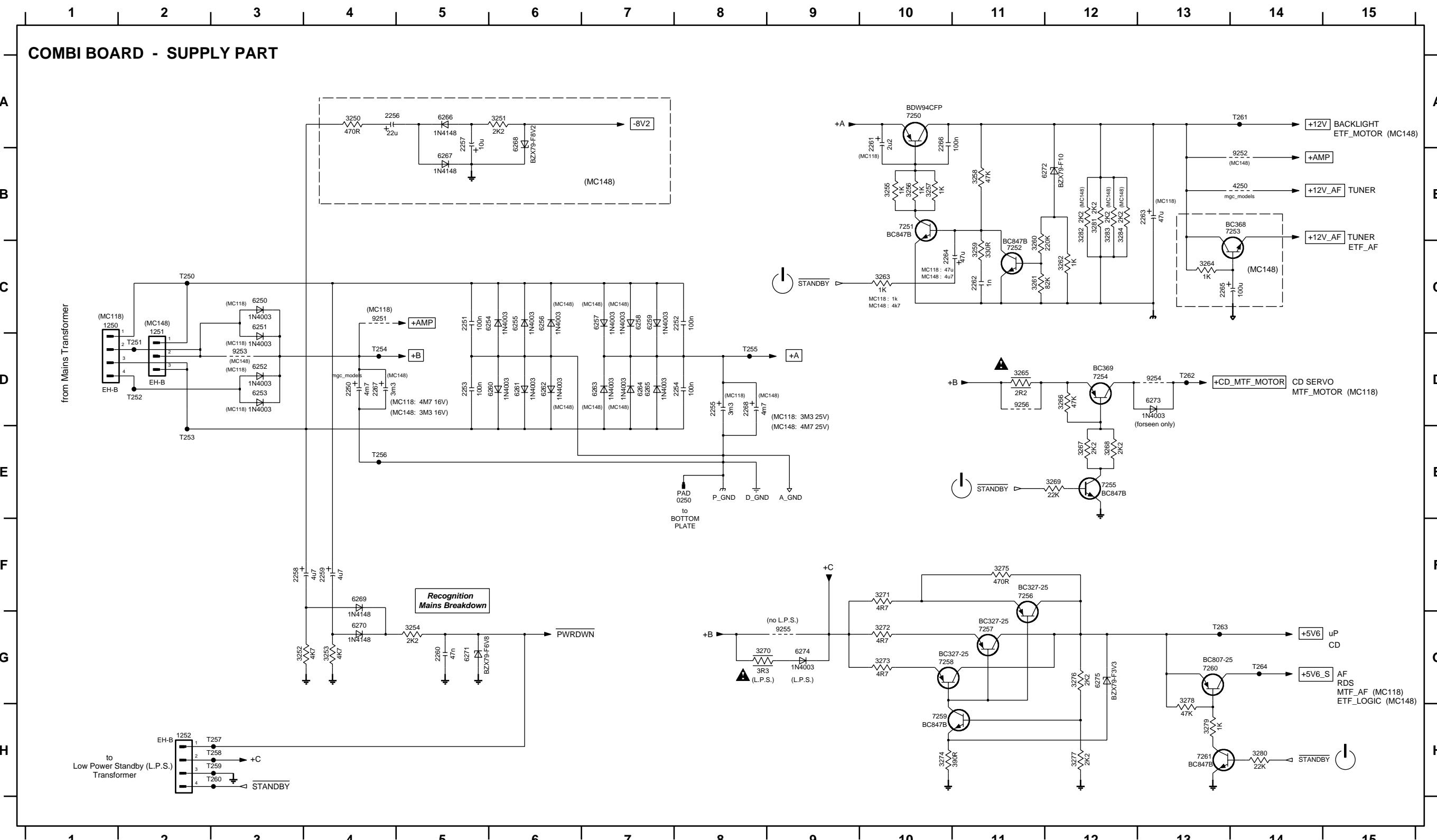
CIRCUIT DIAGRAM - COMBI BOARD (PART 2)

1330 A1	2332 D4	2336 D5	2340 C9	2344 B1	2348 F10	2352 H5	3330 P5	3334 D4	3338 C9	3342 B11	3346 C8	3350 H7	3354 B4	3360 H5	3364 B8	4335 A4	5334 K9	6334 B8	7333 H6	T330 B6	T334 G9	T338 B11	T342 D12
1331-A1	2333 E5	2337 E9	2341 A10	2345 D12	2349 G9	2353 G6	3331 E4	3335 E9	3339 A10	3343 E8	3347 F7	3351 G11	3356 B4	3361 H5	3365 B8	5331 E9	6331 G10	7330 C6	T334 B4	T331 H5	T335 G8	T339 D12	T343 E3
2330 B7	2334 C5	2338 D9	2342 B10	2346 E12	2350 F5	2354 G7	3332 D4	3336 D9	3340 B10	3344 D8	3348 F6	3352 G11	3358 B5	3362 B7	4333 E5	5332 D9	6332 G10	7331 G7	T335 B7	T332 C6	T338 G6	T340 E12	T344 D3
2331 E4	2335 E5	2339 F9	2343 A11	2347 F10	2351 B5	3333 E4	3337 E9	3341 A11	3345 E8	3349 G7	3353 G10	3359 H5	3363 B7	4334 D5	5333 E9	6333 H4	7332 G6	9330 A7	T333 C7	T337 A11	T341 D12		

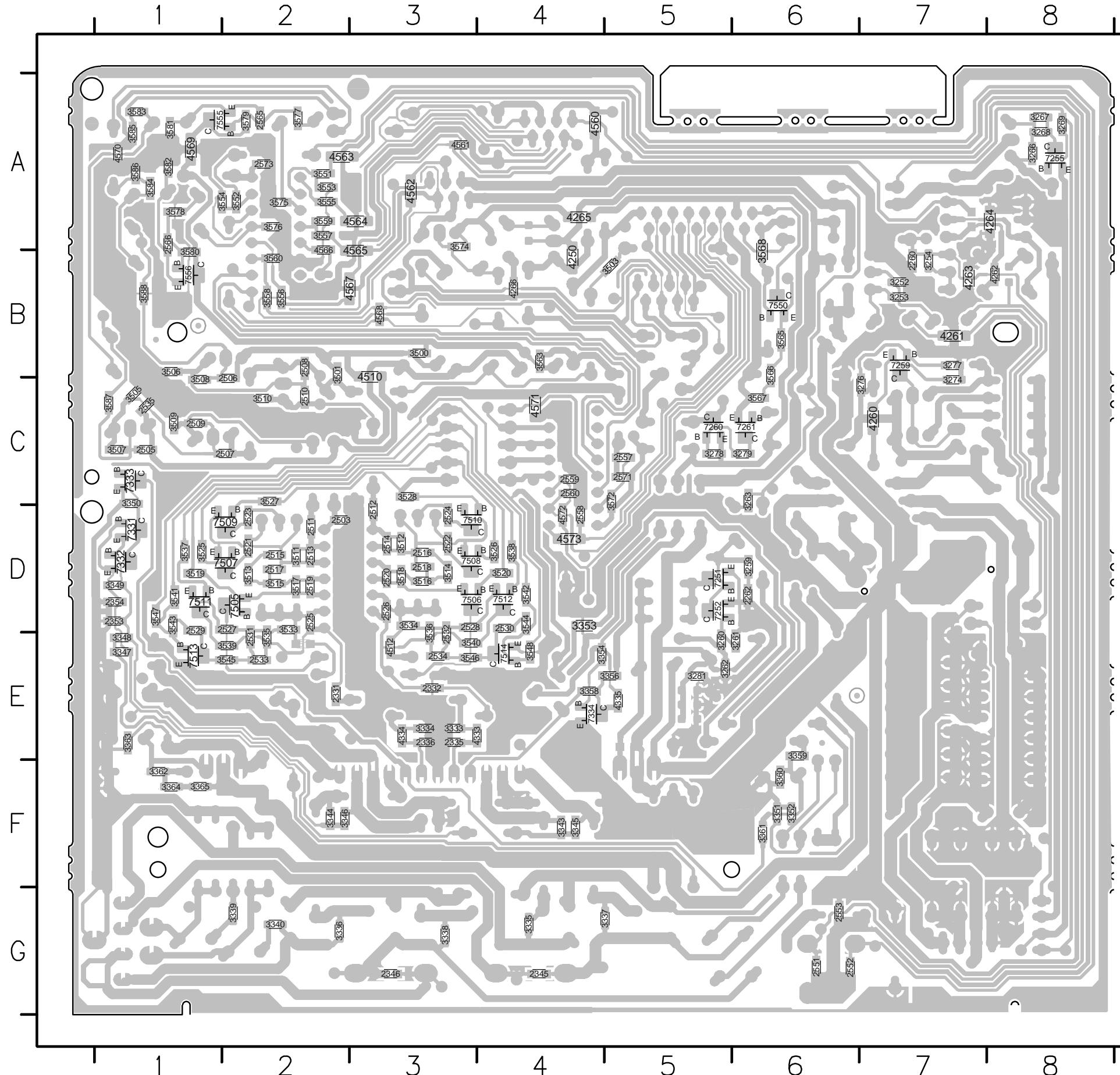


CIRCUIT DIAGRAM - COMBI BOARD (PART 3)

0250 E8	2250 D4	2254 D8	2258 F3	2262 C11	2266 A10	3251 A6	3255 B10	3259 C11	3263 C10	3267 E12	3271 F10	3275 H13	3283 B12	6251 C3	6255 C6	6259 C7	6263 B5	6271 G5	6275 G11	7261 H13	9254 D13	T251 D2	T255 D8	T259 H3	T263 G13		
1250 C1	2251 C5	2255 D8	2259 F4	2263 C11	2267 D4	3252 G3	3256 G11	3264 C13	3268 D12	3272 G10	3276 G12	3280 H14	3284 B12	6252 D3	6256 G6	6260 D6	6264 D7	6268 A6	6272 B11	7250 A10	7254 D10	7258 B10	7262 D9	7266 E4	7269 H3	T264 G14	
1251 D2	2252 C8	2256 A4	2260 G5	2264 C10	2268 D8	3253 G4	3257 B10	3261 C11	3265 D11	3269 E12	3273 G13	3277 H12	3281 B14	6253 D5	6257 C7	6261 D6	6265 D7	6269 F4	6273 D13	7251 B10	7255 E12	7259 H11	9252 B14	9256 D11	T253 E3	T257 H3	T261 A14
1252 H2	2253 D5	2257 A5	2261 A10	2265 C13	2270 A4	3254 G5	3258 B11	3262 C11	3266 D12	3270 G14	3274 H15	3278 G13	3282 B17	6254 C5	6258 C7	6262 D6	6266 A5	6270 G4	6274 G9	7252 C11	7256 C11	7260 G13	9253 D5	T250 C2	T254 D4	T258 H3	T262 D13

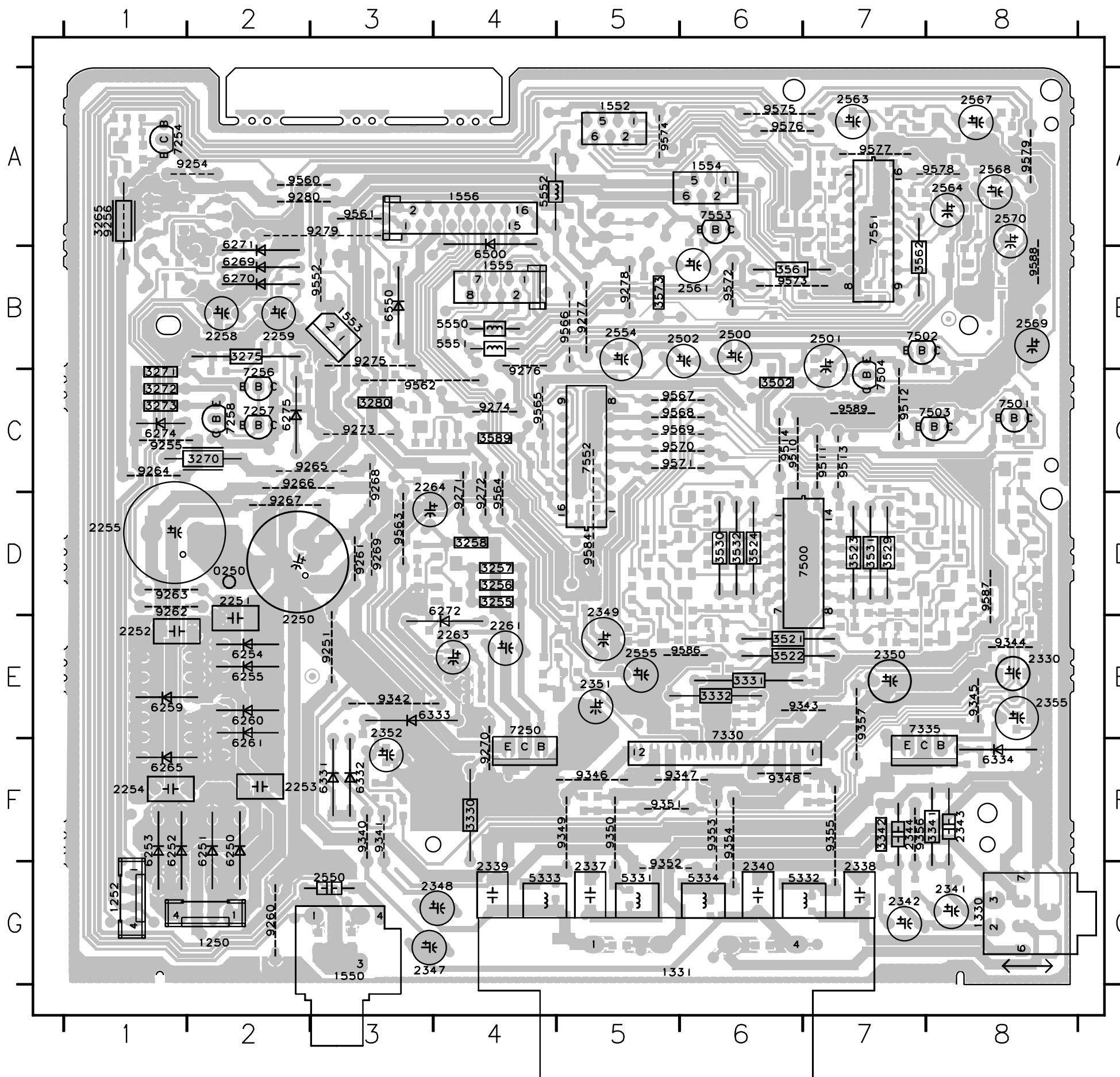


LAYOUT DIAGRAM - COMBI BOARD COPPER SIDE VIEW

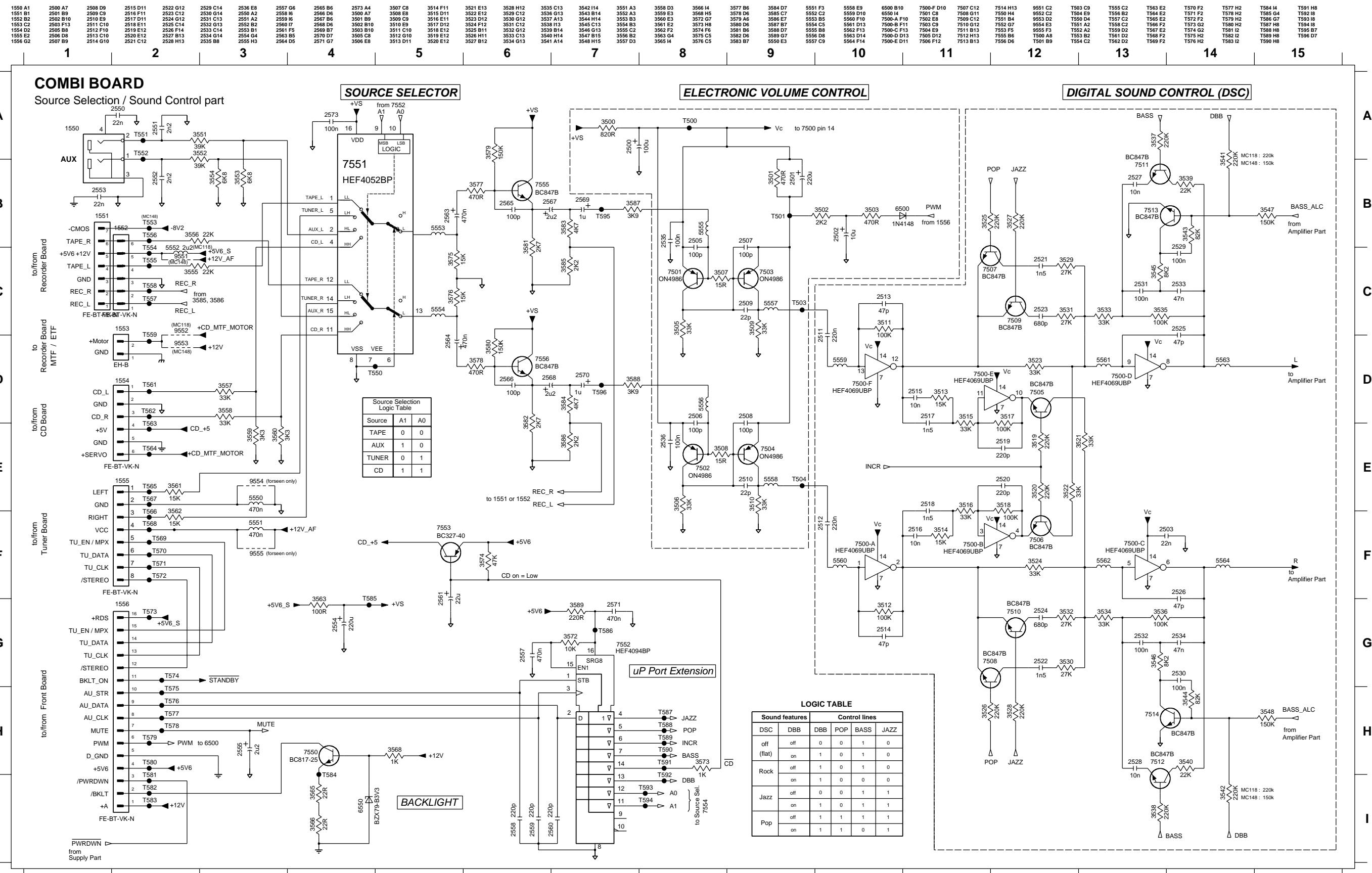


2260	B7	3276	C7	3545	E2	7334	E4
2262	D6	3277	B7	3546	E3	7505	D2
2266	E5	3278	C5	3547	D1	7506	D3
2331	E2	3279	C6	3548	E4	7507	D2
2332	E3	3281	E5	3551	A2	7508	D3
2333	E4	3282	E5	3552	A2	7509	D2
2334	E3	3283	E5	3553	A2	7510	D3
2335	E3	3284	E5	3554	A2	7511	D1
2336	E3	3333	E3	3555	A2	7512	D4
2345	G4	3334	E3	3556	B2	7513	E1
2346	G3	3335	G4	3557	A2	7514	E4
2353	D1	3336	G2	3558	B2	7550	B6
2354	D1	3337	G5	3559	A2	7555	A1
2503	D2	3338	G3	3560	B2	7556	B1
2505	C1	3339	G2	3563	B4		
2506	C2	3340	G2	3565	B6		
2507	C2	3343	F4	3566	B6		
2508	B2	3344	F2	3567	C6		
2509	C1	3345	F4	3568	B6		
2510	C2	3346	F2	3572	C5		
2511	D2	3347	E1	3574	A3		
2512	D3	3348	E1	3575	A2		
2513	D2	3349	D1	3576	A2		
2514	D3	3350	C1	3577	A2		
2515	D2	3351	F6	3578	A1		
2516	D3	3352	F6	3579	A2		
2517	D2	3353	D4	3580	B1		
2518	D3	3354	E4	3581	A1		
2519	D2	3356	E5	3582	A1		
2520	D3	3358	E4	3583	A1		
2521	D2	3359	E6	3584	A1		
2522	D3	3360	F6	3585	A1		
2523	D2	3361	F6	3586	A1		
2524	D3	3362	F1	3587	C1		
2525	D2	3363	E1	3588	B1		
2526	D3	3364	F1	4250	B4		
2527	D2	3365	F1	4260	C7		
2528	D3	3500	B3	4261	B7		
2529	D1	3501	B2	4262	B8		
2530	D4	3503	B5	4263	B7		
2531	E2	3505	C1	4264	A8		
2532	E3	3506	B1	4265	A4		
2533	E2	3507	C1	4266	B4		
2534	E3	3508	C1	4333	E4		
2535	C1	3509	C1	4334	E3		
2551	G6	3510	C2	4335	E5		
2552	G6	3511	D2	4510	B3		
2553	G6	3512	D3	4512	E3		
2557	C5	3513	D2	4513	E2		
2558	D4	3514	D3	4560	A4		
2559	C4	3515	D2	4561	A3		
2560	C4	3516	D3	4562	A3		
2565	A2	3517	D2	4563	A2		
2566	A1	3518	D3	4564	A3		
2571	C5	3519	D1	4565	B3		
2573	A2	3520	D4	4566	A2		
3250	B8	3525	D1	4567	B3		
3251	A7	3526	D4	4568	B3		
3252	B7	3527	C2	4569	A1		
3253	B7	3528	C3	4570	A1		
3254	B7	3533	D2	4571	C4		
3259	D6	3534	D3	4572	D4		
3260	E5	3535	E2	4573	D4		
3261	E6	3536	E3	7251	D5		
3262	E5	3537	D1	7252	D5		
3263	C6	3538	D4	7255	A8		
3264	A4	3539	E2	7259	B7		
3266	A8	3540	E3	7260	C5		
3267	A8	3541	D1	7261	C6		
3268	A8	3542	D4	7331	D1		
3269	A8	3543	D1	7332	D1		
3274	C7	3544	D4	7333	C1		

LAYOUT DIAGRAM - COMBI BOARD COMPONENT SIDE VIEW



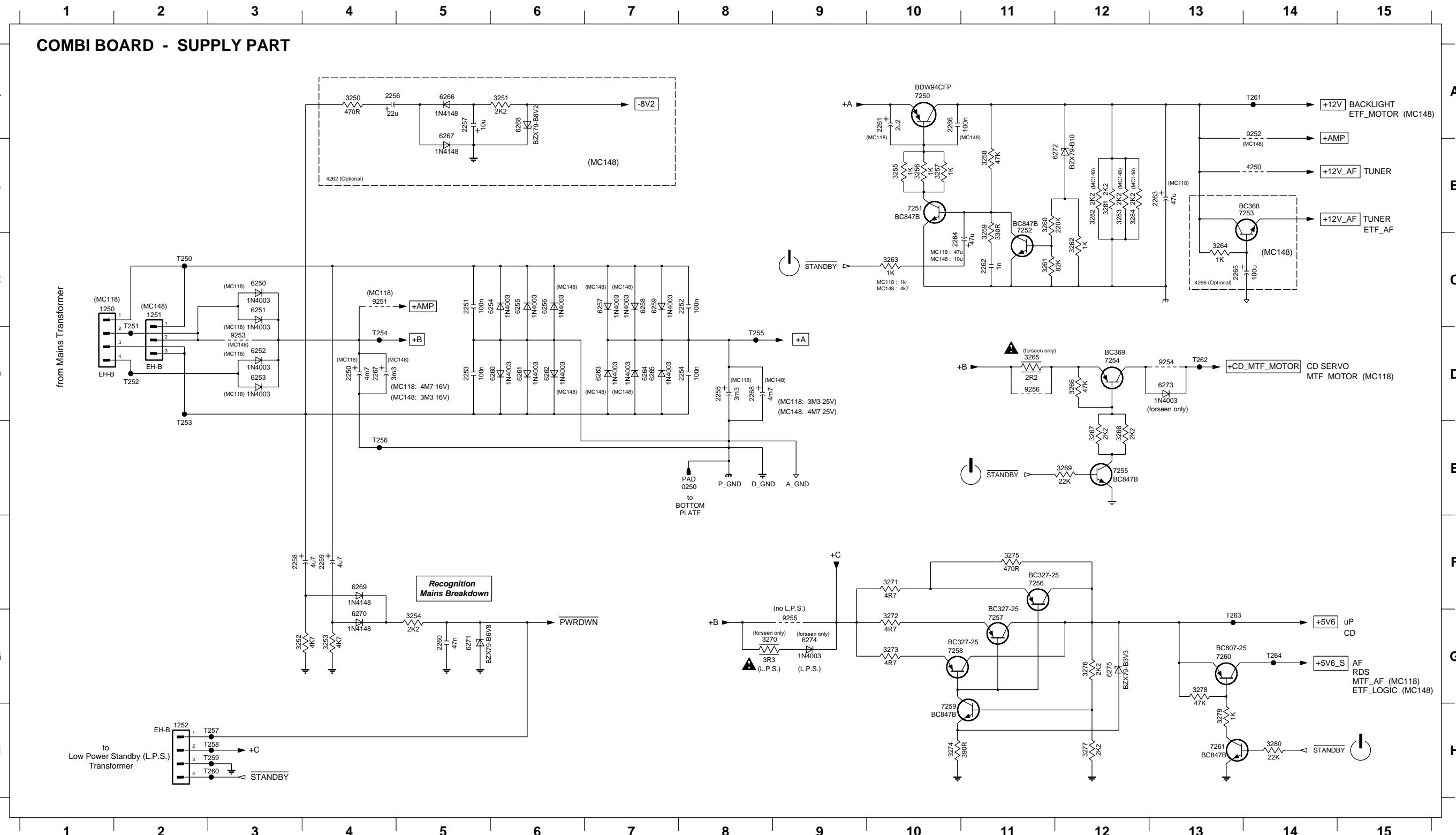
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1250	G2	3342	F7	9254	A2	9579
1251	G2	3502	C6	9255	C1	9584
1252	G1	3521	E6	9256	A1	9586
1330	G8	3522	E6	9260	G2	9587
1331	G5	3523	D7	9261	D3	9588
1550	G3	3524	D6	9262	D1	9589
1551	A5	3529	D7	9263	D1	
1552	A5	3530	D6	9264	C1	
1553	B3	3531	D7	9265	C3	
1554	A6	3532	D6	9266	C2	
1555	B4	3561	B6	9267	D2	
1556	A4	3562	B7	9268	C3	
2250	E2	3573	B5	9269	D3	
2251	D2	3589	C4	9270	F4	
2252	E1	5331	G5	9271	D4	
2253	F2	5332	G7	9272	D4	
2254	F1	5333	G4	9273	C3	
2255	D1	5334	G6	9274	C4	
2256	B1	5550	B4	9275	B3	
2257	B2	5551	B4	9276	C4	
2258	B2	5552	A4	9277	B5	
2259	B2	6250	F2	9278	B5	
2261	E4	6251	F2	9279	A3	
2263	E4	6252	F1	9280	A2	
2264	C3	6253	F1	9330	F7	
2265	A5	6254	E2	9340	F3	
2267	E2	6255	E2	9341	F3	
2268	D1	6256	E2	9342	E3	
2330	E8	6257	E1	9343	E7	
2337	G5	6258	E1	9344	E8	
2338	G7	6259	E1	9345	E8	
2339	G4	6260	E2	9346	F5	
2340	G6	6261	F2	9347	F6	
2341	G8	6262	F2	9348	F6	
2342	G7	6263	E1	9349	F5	
2343	F8	6264	F1	9350	F5	
2344	F7	6265	F1	9351	F5	
2347	G3	6266	A2	9352	G5	
2348	G4	6267	A2	9353	F6	
2349	D5	6268	A2	9354	F6	
2350	E7	6269	B2	9355	F7	
2351	E5	6270	B2	9356	F7	
2352	E3	6271	A2	9357	E7	
2355	E8	6272	D4	9510	C6	
2500	B6	6273	A2	9511	C7	
2501	B7	6274	C1	9512	C7	
2502	B6	6275	C2	9513	C7	
2550	G3	6331	F3	9514	C6	
2554	B5	6332	F3	9551	A5	
2555	E5	6333	E4	9552	B3	
2561	B6	6334	F8	9553	B3	
2563	A7	6500	B4	9554	B4	
2564	A8	6550	B3	9555	B4	
2567	A8	7250	E4	9560	A2	
2568	A8	7253	A5	9561	A3	
2569	B8	7254	A1	9562	C3	
2570	A8	7256	C2	9563	D3	
3255	D4	7257	C2	9564	D4	
3256	D4	7258	C2	9565	C4	
3257	D4	7330	E6	9566	B5	
3258	D4	7335	E7	9567	C5	
3265	A1	7500	D7	9568	C5	
3270	C2	7501	C8	9569	C5	
3271	C1	7502	B7	9570	C5	
3272	C1	7503	C8	9571	C5	
3273	C1	7504	C7	9572	B6	
3275	B2	7551	A7	9573	B6	
3280	C3	7552	C5	9574	A5	
3330	F4	7553	A6	9575	A6	
3331	E6	9251	E3	9576	A6	
3332	E6	9252	F4	9577	A7	

COMBI BOARD - CIRCUIT DIAGRAM**Source Selector / Volume Control / digital Sound Control**

COMBI BOARD - CIRCUIT DIAGRAM

Supply Part

0250 E8	2250 D4	2254 D8	2258 F3	2262 C11	2266 A10	3251 A6	3255 B10	3259 B11	3263 C10	3267 E12	3271 F11	3279 H13	3283 B12	6251 C3	6255 C6	6259 C7	6263 D7	6267 A5	6271 G7	6275 B12	7253 B13	7257 G11	7261 H13	9254 D13	T251 D2	T255 D8	T259 H3	T263 G13
1250 C2	2251 C5	2255 D5	2259 F4	2263 B13	2267 D4	3252 G3	3256 G2	3260 G3	3264 C13	3268 E12	3272 G10	3280 H14	3284 B12	6252 D3	6256 C6	6260 D6	6264 D7	6268 A6	6272 B11	7250 A10	7254 D12	7258 G10	9251 C4	T252 D2	T256 E4	T260 H3	T264 G14	
1251 C2	2252 C8	2256 A4	2260 G5	2264 C10	2268 D4	3253 G4	3257 B10	3261 C11	3265 D11	3269 E12	3273 G10	3277 H12	3281 B12	6253 D3	6257 C7	6261 D6	6265 D7	6269 F4	6273 D13	7251 B10	7255 E12	7259 H10	9252 A14	T252 D11	T257 H3	T261 A14		
1252 H2	2253 D5	2257 A5	2261 A10	2265 C13	2300 A5	3254 G5	3258 B11	3262 C12	3266 D12	3270 G12	3274 H10	3278 G13	3282 B12	6250 C3	6254 C5	6258 C7	6262 D6	6266 A5	6270 G4	7252 B11	7256 F11	7260 G13	9253 D3	T250 C2	T254 D4	T258 H3	T262 D13	

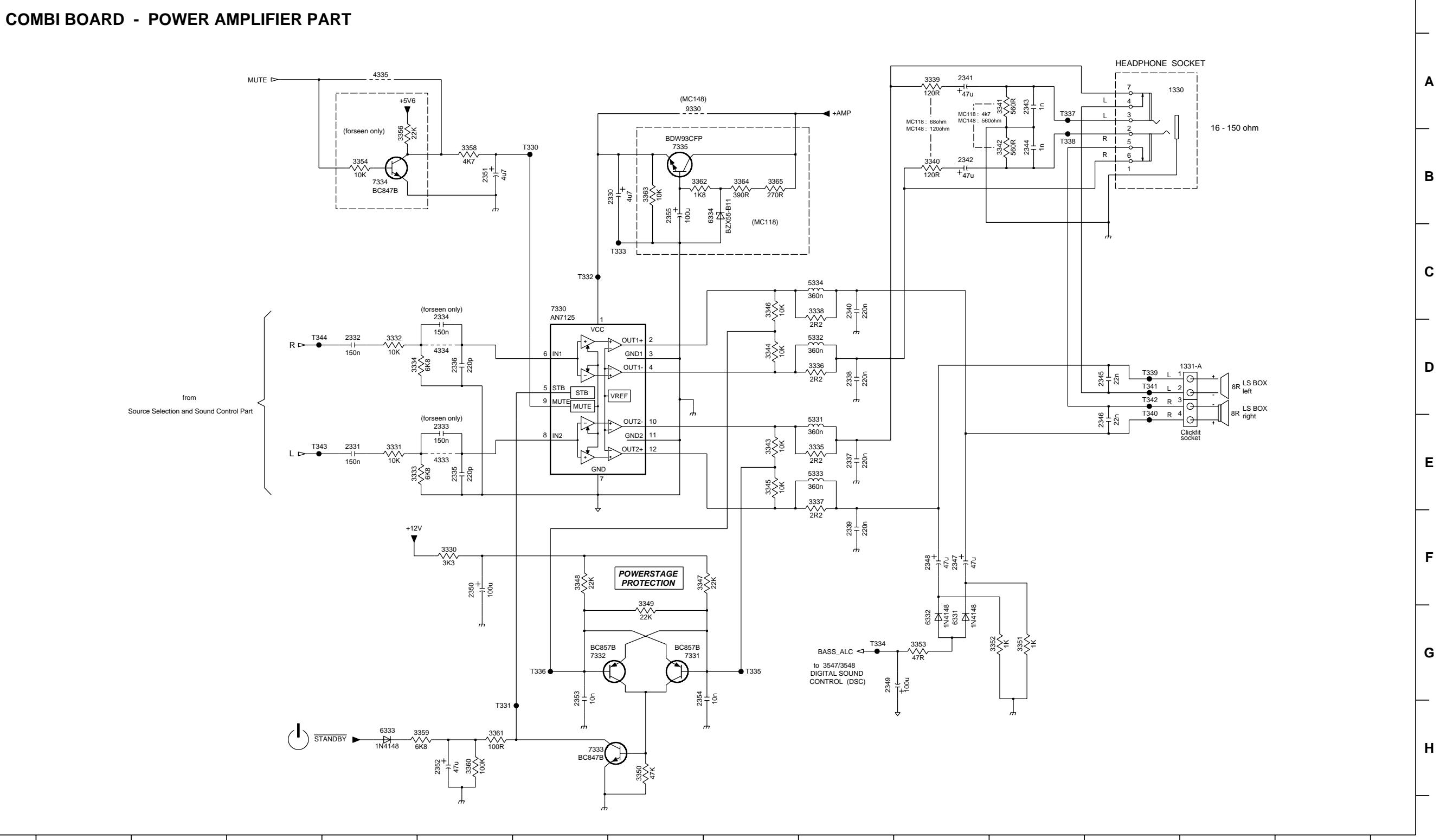


COMBI BOARD - CIRCUIT DIAGRAM

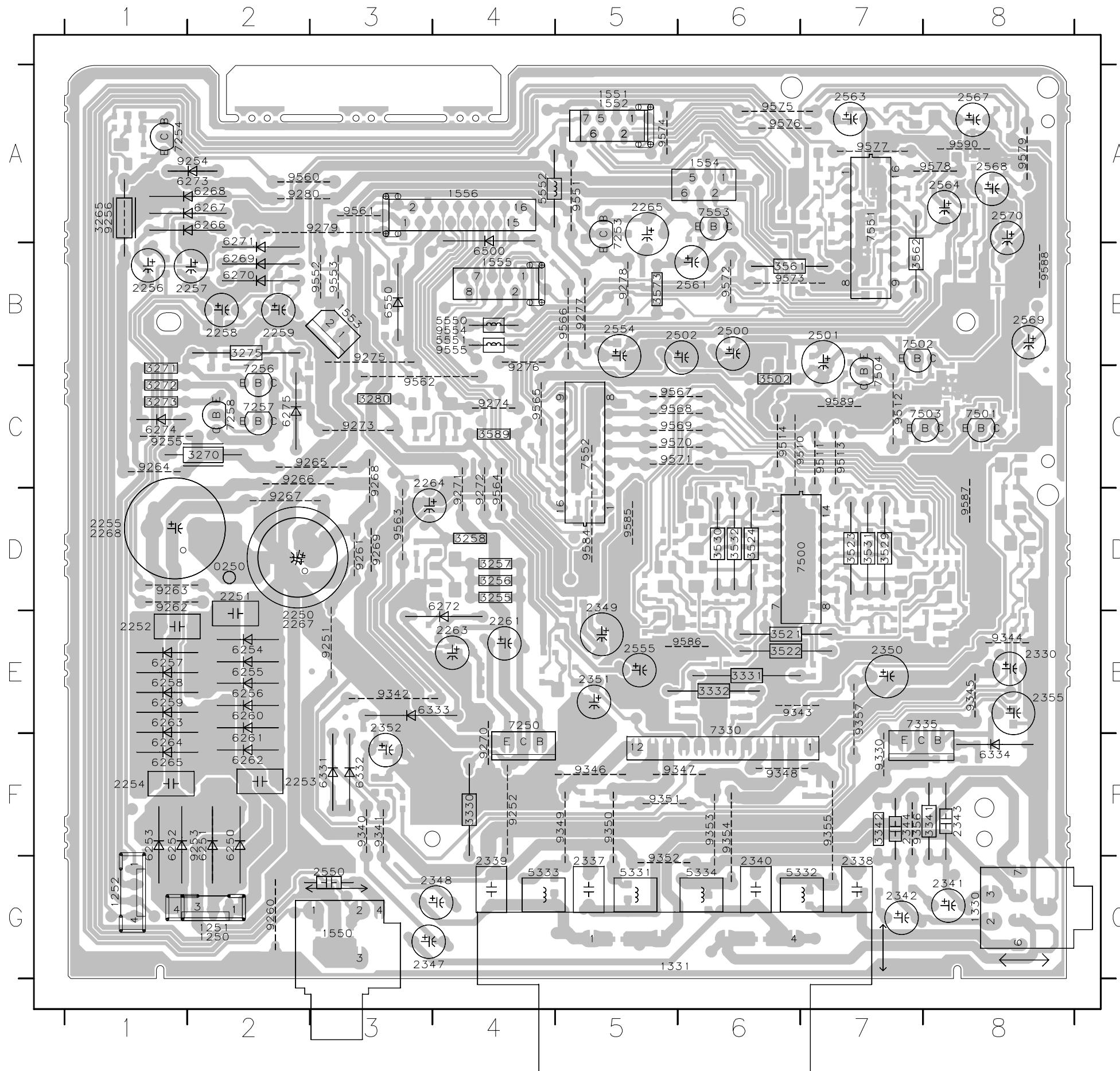
Power Amplifier Part

1330 A12	2332 D4	2336 D5	2340 C9	2344 B11	2348 F10	2352 H5	3330 F5	3334 D4	3338 C9	3342 B11	3346 C8	3350 H7	3354 B4	3360 H5	3364 B8	4335 A4	5334 C9	6334 B8	7333 H6	T330 B6	T334 G9	T338 B11	T342 D12
1331-A D13	2333 E5	2337 E9	2341 A10	2345 D12	2349 G9	2353 G6	3331 E4	3339 A10	3343 E8	3347 F7	3351 G11	3356 B4	3361 H5	3365 B8	5331 E9	6331 G10	7330 C6	7334 B4	T331 H5	T335 G8	T339 D12	T343 E3	
2330 B7	2334 D5	2338 D9	2342 B10	2346 E12	2350 F5	2354 G7	3332 D4	3336 D9	3340 B10	3344 DB	3348 F6	3352 G11	3358 B5	3362 B7	4333 E5	5332 D9	6332 G10	7331 G7	7335 B7	T332 C6	T336 G6	T340 E12	T344 D3
2331 E4	2335 E5	2339 F9	2343 A11	2347 F10	2351 B5	2355 B7	3333 E4	3337 E9	3341 A11	3345 E8	3349 G7	3353 G10	3359 H5	3363 B7	4334 D5	5333 E9	6333 H4	7332 G6	9330 A7	T333 C7	T337 A11	T341 D12	

1 2 3 4 5 6 7 8 9 10 11 12 13 14

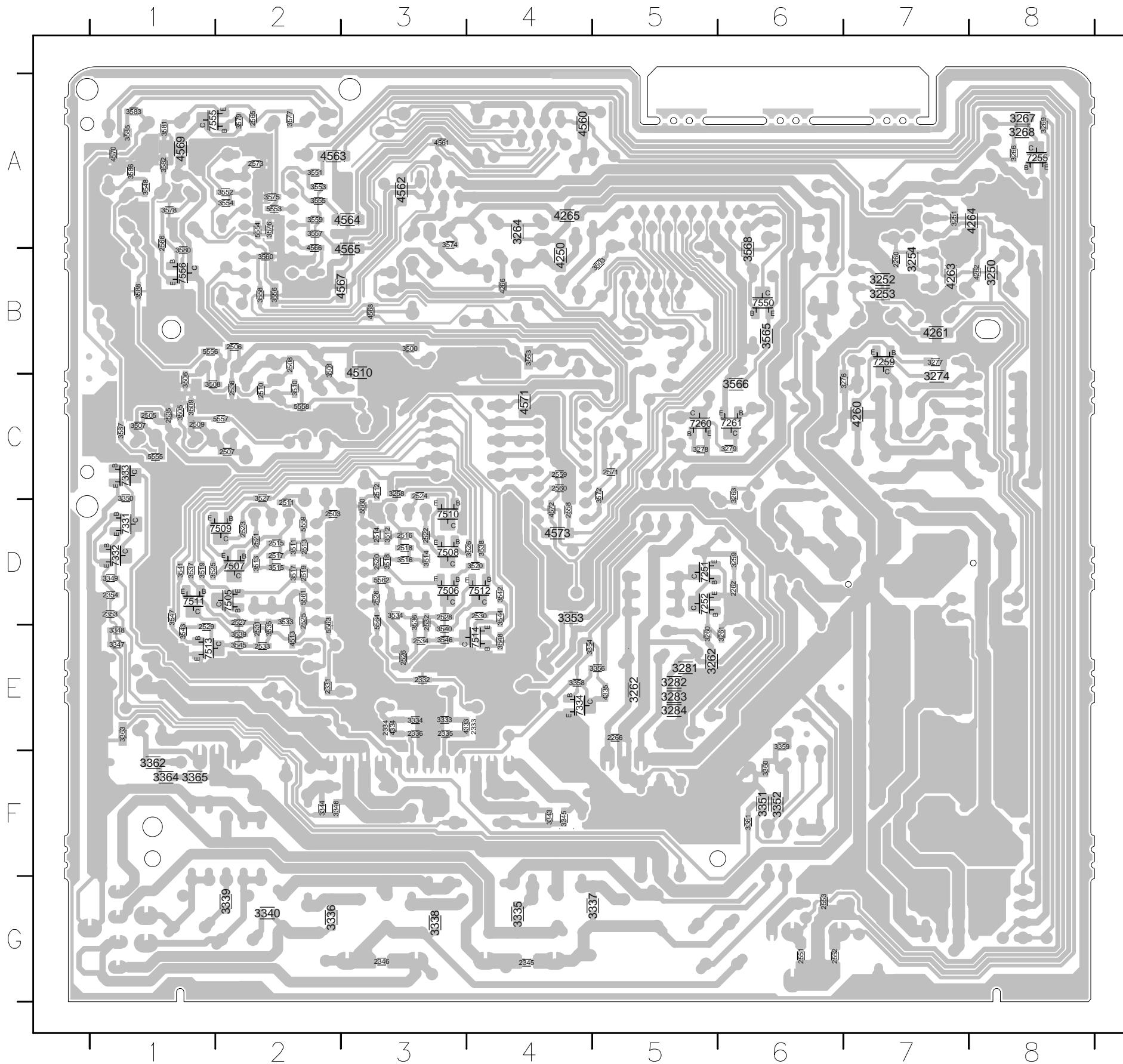


COMBI BOARD - LAYOUT DIAGRAM



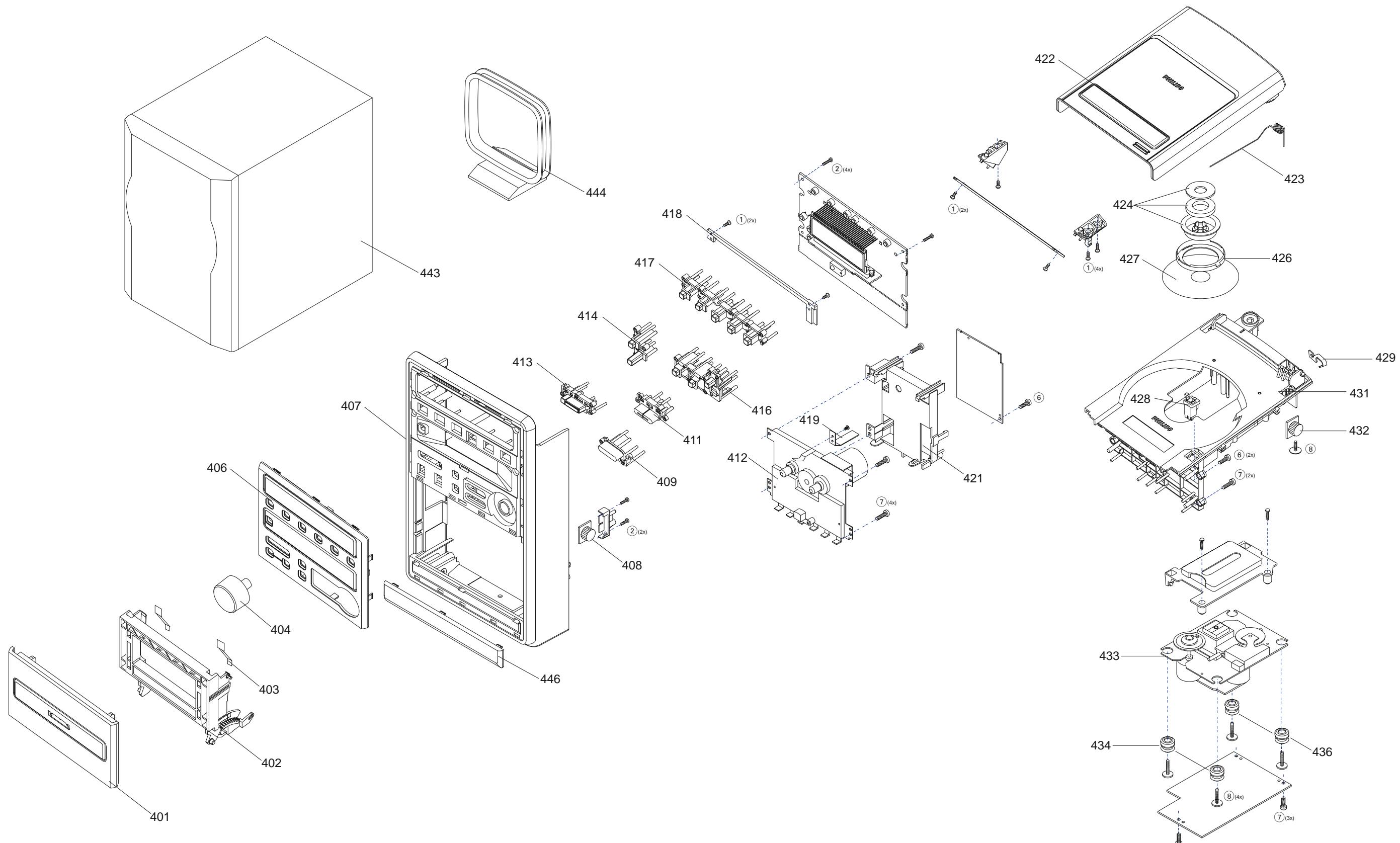
0250	D2	3341	F8	9253	F2	9578	A8
1250	G2	3342	F7	9254	A2	9579	A8
1251	G2	3502	C6	9255	C1	9584	D5
1252	G1	3521	E6	9256	A1	9585	D5
1330	G8	3522	E6	9260	G2	9586	E6
1331	G5	3523	D7	9261	D3	9587	D8
1550	G3	3524	D6	9262	D1	9588	B8
1551	A5	3529	D7	9263	D1	9589	C7
1552	A5	3530	D6	9264	C1	9590	A8
1553	B3	3531	D7	9265	C3		
1554	A6	3532	D6	9266	C2		
1555	B4	3561	B6	9267	D2		
1556	A4	3562	B7	9268	C3		
2250	E2	3573	B5	9269	D3		
2251	D2	3589	C4	9270	F4		
2252	E1	5331	G5	9271	D4		
2253	F2	5332	G7	9272	D4		
2254	F1	5333	G4	9273	C3		
2255	D1	5334	G6	9274	C4		
2256	B1	5550	B4	9275	B3		
2257	B2	5551	B4	9276	C4		
2258	B2	5552	A4	9277	B5		
2259	B2	6250	F2	9278	B5		
2261	E4	6251	F2	9279	A3		
2263	E4	6252	F1	9280	A2		
2264	C3	6253	F1	9330	F7		
2265	A5	6254	E2	9340	F3		
2267	E2	6255	E2	9341	F3		
2268	D1	6256	E2	9342	E3		
2330	E8	6257	E1	9343	E6		
2337	G5	6258	E1	9344	E8		
2338	G7	6259	E1	9345	E8		
2339	G4	6260	E2	9346	F5		
2340	G6	6261	F2	9347	F6		
2341	G8	6262	F2	9348	F6		
2342	G7	6263	E1	9349	F5		
2343	F8	6264	F1	9350	F5		
2344	F7	6265	F1	9351	F5		
2347	G3	6266	A2	9352	G5		
2348	G4	6267	A2	9353	F6		
2349	D5	6268	A2	9354	F6		
2350	E7	6269	B2	9355	F7		
2351	E5	6270	B2	9356	F7		
2352	E3	6271	A2	9357	E7		
2355	E8	6272	D4	9510	C6		
2500	B6	6273	A2	9511	C7		
2501	B7	6274	C1	9512	C7		
2502	B6	6275	C2	9513	C7		
2550	G3	6331	F3	9514	C6		
2554	B5	6332	F3	9551	A5		
2555	E5	6333	E4	9552	B3		
2561	B6	6334	F8	9553	B3		
2563	A7	6500	B4	9554	B4		
2564	A8	6550	B3	9555	B4		
2567	A8	7250	E4	9560	A2		
2568	A8	7253	A5	9561	A3		
2569	B8	7254	A1	9562	C3		
2570	A8	7256	C2	9563	D3		
3255	D4	7257	C2	9564	D4		
3256	D4	7258	C2	9565	C4		
3257	D4	7330	E6	9566	B5		
3258	D4	7335	E7	9567	C5		
3265	A1	7500	D7	9568	C5		
3270	C2	7501	C8	9569	C5		
3271	C1	7502	B7	9570	C5		
3272	C1	7503	C8	9571	C5		
3273	C1	7504	C7	9572	B6		
3275	B2	7551	A7	9573	B6		
3280	C3	7552	C5	9574	A5		
3330	F4	7553	A6	9575	A6		
3331	E6	9251	E3	9576	A6		
3332	E6	9252	F4	9577	A7		

COMBI BOARD - LAYOUT DIAGRAM



2260	B7	3274	C7	3544	D4	5563	E2
2262	D6	3276	C7	3545	E2	5564	D3
2266	E5	3277	B7	3546	E3	7251	D5
2331	E2	3278	C5	3547	D1	7252	D5
2332	E3	3279	C6	3548	E4	7255	A8
2333	E4	3281	E5	3551	A2	7259	B7
2334	E3	3282	E5	3552	A2	7260	C5
2335	E3	3283	E5	3553	A2	7261	C6
2336	E3	3284	E5	3554	A2	7331	D1
2345	G4	3333	E3	3555	A2	7332	D1
2346	G3	3334	E3	3556	B2	7333	C1
2353	D1	3335	G4	3557	A2	7334	E4
2354	D1	3336	G2	3558	B2	7505	D2
2503	D2	3337	G5	3559	A2	7506	D3
2505	C1	3338	G3	3560	B2	7507	D2
2506	B2	3339	G2	3563	B4	7508	D3
2507	C2	3340	G2	3565	B6	7509	D2
2508	B2	3343	F4	3566	C6	7510	D3
2509	C1	3344	F2	3568	B6	7511	D1
2510	C2	3345	F4	3572	C5	7512	D4
2511	D2	3346	F2	3574	A3	7513	E1
2512	C3	3347	E1	3575	A2	7514	E4
2513	D2	3348	E1	3576	A2	7550	B6
2514	D3	3349	D1	3577	A2	7555	A1
2515	D2	3350	C1	3578	A1	7556	B1
2516	D3	3351	F6	3579	A2		
2517	D2	3352	F6	3580	B1		
2518	D3	3353	D4	3581	A1		
2519	D2	3354	E4	3582	A1		
2520	D3	3356	E5	3583	A1		
2521	D2	3358	E4	3584	A1		
2522	D3	3359	E6	3585	A1		
2523	D2	3360	F6	3586	A1		
2524	C3	3361	F6	3587	C1		
2525	D2	3362	F1	3588	B1		
2526	D3	3363	E1	4250	B4		
2527	D2	3364	F1	4260	C7		
2528	D3	3365	F1	4261	B7		
2529	E1	3500	B3	4262	B8		
2530	D4	3501	B2	4263	B7		
2531	E2	3503	B5	4264	A8		
2532	D3	3505	C1	4265	A4		
2533	E2	3506	C1	4266	B4		
2534	E3	3507	C1	4333	E4		
2535	C1	3508	C1	4334	E3		
2536	C2	3509	C1	4335	E5		
2551	G6	3510	C2	4510	B3		
2552	G6	3511	D2	4513	E2		
2553	G6	3512	D3	4560	A4		
2557	C5	3513	D2	4561	A3		
2558	D4	3514	D3	4562	A3		
2559	C4	3515	D2	4563	A2		
2560	C4	3516	D3	4564	A3		
2565	A2	3517	D2	4565	B3		
2566	A1	3518	D3	4566	A2		
2571	C5	3519	D1	4567	B3		
2573	A2	3520	D4	4568	B3		
3250	B8	3525	D1	4569	A1		
3251	A7	3526	D4	4570	A1		
3252	B7	3527	C2	4571	C4		
3253	B7	3528	C3	4572	D4		
3254	B7	3533	D2	4573	D4		
3259	D6	3534	D3	5553	A2		
3260	E5	3535	E2	5554	A2		
3261	E6	3536	D3	5555	C1		
3262	E5	3537	D1	5556	B1		
3263	C6	3538	D4	5557	C2		
3264	A4	3539	E2	5558	C2		
3266	A8	3540	E3	5559	D2		
3267	A8	3541	D1	5560	D3		
3268	A8	3542	D4	5561	D2		
3269	A8	3543	E1	5562	D3		

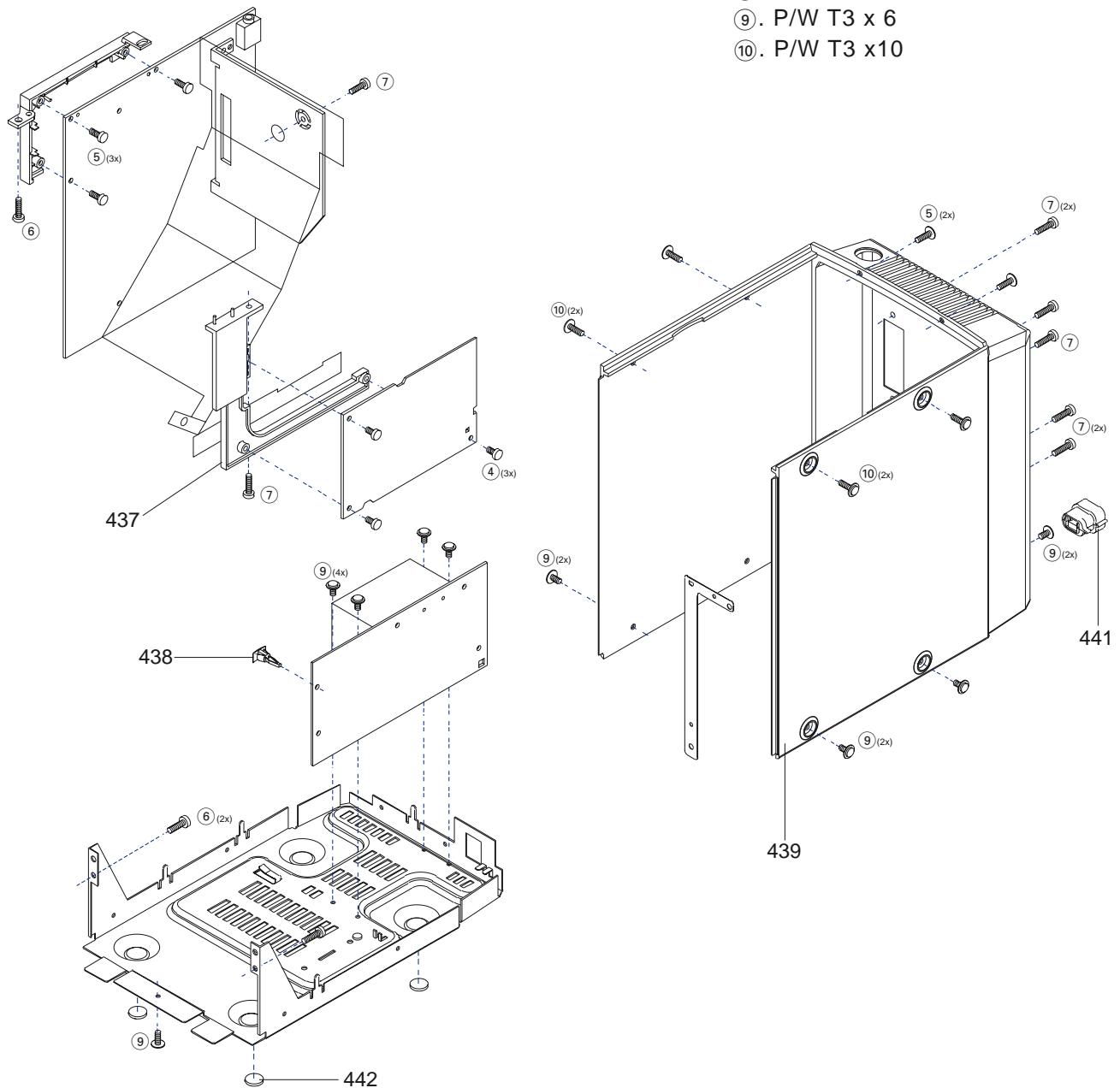
EXPLODED VIEW DIAGRAM



MECHANICAL PARTSLIST - MAIN SET

SCREW LIST

- ①. T2 x 6
- ②. T2 x 10
- ③. T2.5 x 10
- ④. T3 x 6
- ⑤. T3 x 8
- ⑥. T3 x10
- ⑦. T3 x12
- ⑧. P/W C2.5 x 10
- ⑨. P/W T3 x 6
- ⑩. P/W T3 x10



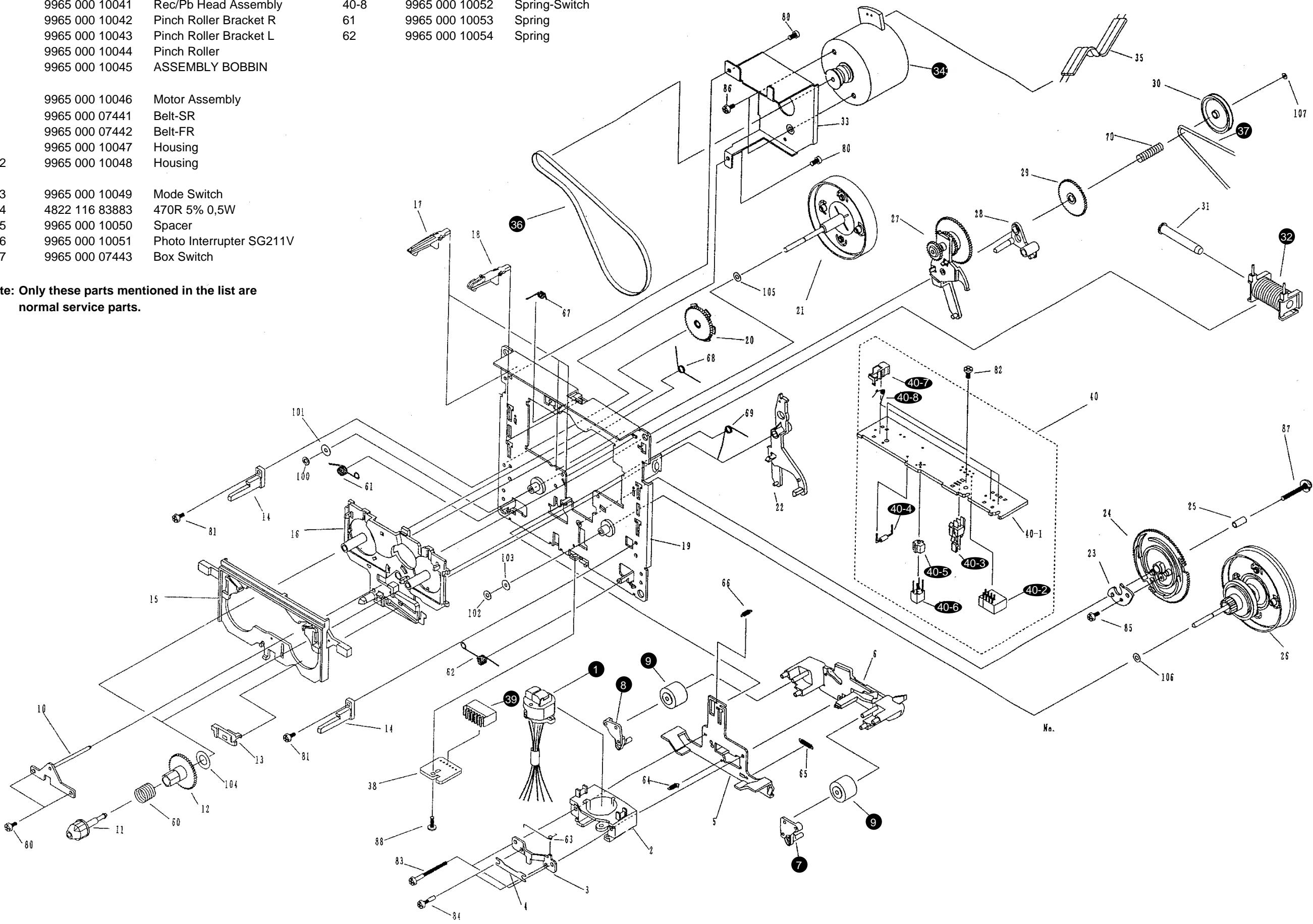
401	3140 117 65631	CASSETTE DOOR ASSY
402	3139 114 73920	DOOR CASSETTE ETF
403	4822 492 70231	SPRING-LEAF
404	3140 117 67561	VOLUME KNOB CHROME
406	3140 117 66201	FRONT PANEL ASSY
407	3140 117 65651	FRONT CABINET PNT PRT
408	4822 529 10322	DAMPER ASSY
409	3140 117 65711	KEYSET INCREDIBLE CHROME
411	3140 117 65701	KEYSET DBB/ DSC CHROME
412	4822 691 10633	CDS-83PBF-06
413	3140 117 65671	KEYSET PLAY/ STOP PNT
414	3140 117 65681	KEYSET POWER/ SOURCE PNT
416	3140 117 65691	KEYSET NEXT/ PREV PNT
417	3140 117 65371	KEYSET UPPER PNT
418	3140 110 51811	LIGHTBAR ASSEMBLY
419	3140 111 20800	SPRING-RECORDING
421	3140 114 20430	BRACKET ECO-MTF-SD
422	3140 117 65601	CD DOOR ASSY
423	3140 111 01511	SPRING-CD
424	4822 532 12798	RING PRESSURE
426	4822 532 13153	RING (CD LID)
427	4822 535 60096	DISC
428	4822 276 13963	CD DOOR SWITCH
429	3140 111 22901	CD DOOR SPRING PLATE
431	3140 114 48611	CD-TRAY
432	4822 529 10322	DAMPER ASSY
433	3103 309 05290	CD DA11N DRIVE ASSY
434	4822 529 10387	DAMPER - RUBBER (40 DEG)
436	4822 529 10386	DAMPER - RUBBER (30 DEG)
437	3140 114 29310	TUNER BRACKET
438	4822 466 93148	PCB SPACER
439	3140 114 43890	REAR-CABINET
441	3140 113 21880	MAINS CORD RELIEF
442	4822 462 40692	RUBBER STAND
443	3140 118 51431	PACKED SPEAKER BOX ASSY
444	2422 549 45067	ANT AM LOOP LAN-006 B
446	3140 117 65721	BOTTOM COVER
	3140 118 51060	IRT ASSY
	3140 118 51460	SPEAKER BOX ASSEMBLY(-/37)
	3140 118 51430	PACKED SPEAKER BOX ASSY(not for -/37)
	4822 303 50063	AERIAL

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

EXPLODED VIEW DIAGRAM - ETF8 TAPE DECK

1	9965 000 10041	Rec/Pb Head Assembly	40-8	9965 000 10052	Spring-Switch
7	9965 000 10042	Pinch Roller Bracket R	61	9965 000 10053	Spring
8	9965 000 10043	Pinch Roller Bracket L	62	9965 000 10054	Spring
9	9965 000 10044	Pinch Roller			
32	9965 000 10045	ASSEMBLY BOBBIN			
34	9965 000 10046	Motor Assembly			
36	9965 000 07441	Belt-SR			
37	9965 000 07442	Belt-FR			
39	9965 000 10047	Housing			
40-2	9965 000 10048	Housing			
40-3	9965 000 10049	Mode Switch			
40-4	4822 116 83883	470R 5% 0,5W			
40-5	9965 000 10050	Spacer			
40-6	9965 000 10051	Photo Interrupter SG211V			
40-7	9965 000 07443	Box Switch			

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



ELECTRICAL PARTSLIST - FRONT, LED AND COMBI BOARD**- MISCELLANEOUS -**

1330	2422 026 05099	CONNECTOR PHONE H 1P
1331	4822 267 31176	CONNECTOR
1400	4822 276 13775	SWITCH-PUSH
1401	4822 276 13775	SWITCH-PUSH
1402	4822 276 13775	SWITCH-PUSH
1403	4822 276 13775	SWITCH-PUSH
1404	4822 276 13775	SWITCH-PUSH
1405	4822 276 13775	SWITCH-PUSH
1406	4822 276 13775	SWITCH-PUSH
1407	4822 276 13775	SWITCH-PUSH
1408	4822 276 13775	SWITCH-PUSH
1409	4822 276 13775	SWITCH-PUSH
1410	4822 276 13775	SWITCH-PUSH
1411	4822 276 13775	SWITCH-PUSH
1412	4822 276 13775	SWITCH-PUSH
1413	4822 276 13775	SWITCH-PUSH
1414	4822 276 13775	SWITCH-PUSH
1415	2422 129 16545	ROTARY ENCODER 24P
1416	2422 025 14546	SOCKET FFC 16P
1418	4822 265 11207	CONNECTOR SOCKET 6P
1420	4822 267 10956	CONNECTOR 7P
1425	3140 110 51000	LCD PANEL
1550	4822 265 20553	CONNECTOR
1551	4822 267 10953	CONNECTOR 7P
1554	4822 267 10731	CONNECTOR
1555	4822 265 11515	CONNECTOR BM V 8P
1556	2422 025 14526	SOCKET FFC 16P

- CAPACITORS -

2339	4822 121 42408	220nF 5% 63V
2340	4822 121 42408	220nF 5% 63V
2341	4822 124 40433	47µF 20% 25V
2342	4822 124 40433	47µF 20% 25V
2343	4822 122 33197	1nF 10% 50V
2344	4822 122 33197	1nF 10% 50V
2345	4822 126 14494	22nF 10% X7R 25V
2346	4822 126 14494	22nF 10% X7R 25V
2347	4822 124 40433	47µF 20% 25V
2348	4822 124 40433	47µF 20% 25V
2349	4822 124 40207	100µF 20% 25V
2350	4822 124 40207	100µF 20% 25V
2351	4822 124 40769	4,7µF 20% 100V
2352	4822 124 40433	47µF 20% 25V
2353	5322 126 11583	10nF 10% X7R 50V
2354	5322 126 11583	10nF 10% X7R 50V
2400	5322 126 11583	10nF 10% X7R 50V
2401	5322 126 11583	10nF 10% X7R 50V
2402	4822 124 23432	100µF 20% 10V
2403	2238 586 59812	100nF +80-20% Y5V 50V
2404	4822 124 23432	100µF 20% 10V
2405	5322 126 11583	10nF 10% X7R 50V
2406	5322 126 11583	10nF 10% X7R 50V
2407	2238 586 59812	100nF +80-20% Y5V 50V
2408	2238 586 59812	100nF +80-20% Y5V 50V
2409	5322 126 11583	10nF 10% X7R 50V
2410	5322 126 11583	10nF 10% X7R 50V
2411	4822 122 33752	15pF 5% NP0 50V
2412	4822 122 33752	15pF 5% NP0 50V
2413	4822 126 11785	47pF 5% NP0 50V
2414	5322 126 11583	10nF 10% X7R 50V
2415	4822 126 11669	27pF
2416	4822 126 11669	27pF
2417	4822 124 40433	47µF 20% 25V
2418	5322 126 11578	1nF 10% X7R 50V
2419	2238 586 59812	100nF +80-20% Y5V 50V
2420	5322 126 11583	10nF 10% X7R 50V
2421	5322 126 11583	10nF 10% X7R 50V
2422	2020 552 94427	100pF 5% NP0 50V
2423	2020 552 94427	100pF 5% NP0 50V
2431	4822 126 13193	4,7nF 10% X7R 63V
2432	2020 552 94427	100pF 5% NP0 50V
2433	4822 126 13881	470pF 5% 50V
2434	2020 552 94427	100pF 5% NP0 50V
2435	4822 126 13881	470pF 5% 50V
2436	4822 126 13881	470pF 5% 50V
2437	4822 126 13881	470pF 5% 50V
2438	4822 126 13881	470pF 5% 50V
2439	4822 126 13881	470pF 5% 50V
2440	4822 126 14238	2,2nF X7R 50V

ELECTRICAL PARTSLIST - FRONT, LED AND COMBI BOARD

- CAPACITORS -			- CAPACITORS -		
2441	5322 126 11583	10nF 10% X7R 50V	2554	4822 124 40196	220µF 20% 16V
2442	4822 126 13883	220pF 5% 50V	2555	4822 124 22652	2,2µF 20% 50V
2443	4822 126 13883	220pF 5% 50V	2557	3198 017 44740	470nF Y5V 10V
2444	4822 126 13883	220pF 5% 50V	2558	4822 126 13883	220pF 5% 50V
2445	4822 126 13883	220pF 5% 50V	2559	4822 126 13883	220pF 5% 50V
2446	5322 126 11583	10nF 10% X7R 50V	2560	4822 126 13883	220pF 5% 50V
2447	4822 126 13881	470pF 5% 50V	2561	4822 124 81151	22µF 50V
2448	4822 126 13881	470pF 5% 50V	2563	4822 124 41407	0,47µF 20% 63V
2449	4822 126 13881	470pF 5% 50V	2564	4822 124 41407	0,47µF 20% 63V
2450	4822 126 13881	470pF 5% 50V	2565	2020 552 94427	100pF 5% NP0 50V
2451	4822 126 13881	470pF 5% 50V	2566	2020 552 94427	100pF 5% NP0 50V
2500	4822 124 41584	100µF 20% 10V	2567	4822 124 22652	2,2µF 20% 50V
2501	4822 124 40196	220µF 20% 16V	2568	4822 124 22652	2,2µF 20% 50V
2502	4822 124 40248	10µF 20% 63V	2569	4822 124 21913	1µF 20% 63V
2503	4822 126 14494	22nF 10% X7R 25V	2570	4822 124 21913	1µF 20% 63V
2505	2020 552 94427	100pF 5% NP0 50V	2571	3198 017 44740	470nF Y5V 10V
2506	2020 552 94427	100pF 5% NP0 50V	2573	2238 586 59812	100nF +80-20% Y5V 50V
2507	2020 552 94427	100pF 5% NP0 50V			
2508	2020 552 94427	100pF 5% NP0 50V			
2509	4822 122 33761	22pF 5% NP0 50V			
2510	4822 122 33761	22pF 5% NP0 50V	3250	4822 051 20471	470R 5% 0,1W
2511	4822 126 13879	220nF +80-20% 16V	3251	4822 051 30222	2,2K 5% 0,062W
2512	4822 126 13879	220nF +80-20% 16V	3252	4822 051 20472	4,7K 5% 0,1W
2513	4822 126 11785	47pF 5% NP0 50V	3253	4822 051 20472	4,7K 5% 0,1W
2514	4822 126 11785	47pF 5% NP0 50V	3254	4822 117 11449	2,2K 5% 0,1W
2515	5322 126 11583	10nF 10% X7R 50V	3255	4822 050 11002	1K 1% 0,4W
2516	5322 126 11583	10nF 10% X7R 50V	3256	4822 050 11002	1K 1% 0,4W
2517	4822 126 14247	1,5nF X7R 50V	3257	4822 050 11002	1K 1% 0,4W
2518	4822 126 14247	1,5nF X7R 50V	3258	4822 116 83884	47K 5% 0,5W
2519	4822 126 13883	220pF 5% 50V	3259	4822 051 30331	330R 5% 0,062W
2520	4822 126 13883	220pF 5% 50V	3260	4822 117 12891	220K 1%
2521	4822 126 14247	1,5nF X7R 50V	3261	4822 117 12864	82K 5% 0,6W
2522	4822 126 14247	1,5nF X7R 50V	3262	4822 051 10102	1K 2% 0,25W
2523	3198 016 36810	680pF NP0 25V	3263	4822 051 20472	4,7K 5% 0,1W
2524	3198 016 36810	680pF NP0 25V	3264	4822 051 10102	1K 2% 0,25W
2525	4822 126 11785	47pF 5% NP0 50V	3266	4822 117 12925	47K 1% 0,063W
2526	4822 126 11785	47pF 5% NP0 50V	3267	4822 117 11449	2,2K 5% 0,1W
2527	5322 126 11583	10nF 10% X7R 50V	3268	4822 117 11449	2,2K 5% 0,1W
2528	5322 126 11583	10nF 10% X7R 50V	3269	4822 051 30223	22K 5% 0,062W
2529	2238 586 59812	100nF +80-20% Y5V 50V	3271	4822 050 24708	4,7R 1% 0,6W
2530	2238 586 59812	100nF +80-20% Y5V 50V	3272	4822 050 24708	4,7R 1% 0,6W
2531	2238 586 59812	100nF +80-20% Y5V 50V	3273	4822 050 24708	4,7R 1% 0,6W
2532	2238 586 59812	100nF +80-20% Y5V 50V	3274	4822 051 20391	390R 5% 0,1W
2533	2238 586 59812	100nF +80-20% Y5V 50V	3275	4822 116 83883	470R 5% 0,5W
2534	2238 586 59812	100nF +80-20% Y5V 50V	3276	4822 051 30222	2,2K 5% 0,062W
2535	2238 586 59812	100nF +80-20% Y5V 50V	3277	4822 051 30222	2,2K 5% 0,062W
2550	4822 126 11585	22nF +80-20% Y5V 25V	3278	4822 117 12925	47K 1% 0,063W
2551	4822 126 14238	2,2nF X7R 50V	3279	4822 051 30102	1K 5% 0,062W
2552	4822 126 14238	2,2nF X7R 50V	3280	4822 116 52257	22K 5% 0,5W
2553	4822 126 14494	22nF 10% X7R 25V	3281	4822 117 11449	2,2K 5% 0,1W

ELECTRICAL PARTSLIST - FRONT, LED AND COMBI BOARD**- RESISTORS -**

3282	4822 117 11449	2,2K 5% 0,1W
3283	4822 117 11449	2,2K 5% 0,1W
3284	4822 117 11449	2,2K 5% 0,1W
3330	4822 116 52269	3,3K 5% 0,5W
3331	4822 050 21003	10K 1% 0,6W
3332	4822 050 21003	10K 1% 0,6W
3333	4822 051 30682	6,8K 5% 0,062W
3334	4822 051 30682	6,8K 5% 0,062W
3335	4822 051 20228	2,2R 5% 0,1W
3336	4822 051 20228	2,2R 5% 0,1W
3337	4822 051 20228	2,2R 5% 0,1W
3338	4822 051 20228	2,2R 5% 0,1W
3339	4822 051 20121	120R 5% 0,1W
3340	4822 051 20121	120R 5% 0,1W
3341	4822 116 52226	560R 5% 0,5W
3342	4822 116 52226	560R 5% 0,5W
3343	4822 051 30103	10K 5% 0,062W
3344	4822 051 30103	10K 5% 0,062W
3345	4822 051 30103	10K 5% 0,062W
3346	4822 051 30103	10K 5% 0,062W
3347	4822 051 30223	22K 5% 0,062W
3348	4822 051 30223	22K 5% 0,062W
3349	4822 051 30223	22K 5% 0,062W
3350	4822 117 12925	47K 1% 0,063W
3351	4822 051 10102	1K 2% 0,25W
3352	4822 051 10102	1K 2% 0,25W
3353	4822 051 20479	47R 5% 0,1W
3358	4822 051 30472	4,7K 5% 0,062W
3359	4822 051 30682	6,8K 5% 0,062W
3360	4822 117 13632	100K 1% 0,62W
3361	4822 117 11373	100R 1%
3400	4822 051 30109	10R 5% 0,062W
3401	4822 116 52182	15R 5% 0,5W
3402	4822 116 52175	100R 5% 0,5W
3403	4822 051 30682	6,8K 5% 0,062W
3404	4822 051 30332	3,3K 5% 0,062W
3405	4822 051 30102	1K 5% 0,062W
3406	4822 117 13632	100K 1% 0,62W
3407	4822 051 30102	1K 5% 0,062W
3408	4822 051 30474	470K 5% 0,062W
3409	4822 051 30103	10K 5% 0,062W
3410	4822 051 30101	100R 5% 0,062W
3411	4822 117 13632	100K 1% 0,62W
3412	4822 051 30103	10K 5% 0,062W
3413	4822 051 30102	1K 5% 0,062W
3414	4822 051 30333	33K 5% 0,062W
3415	4822 051 30153	15K 5% 0,062W
3416	4822 116 83872	220R 5% 0,5W
3417	4822 051 30153	15K 5% 0,062W
3418	4822 051 30152	1,5K 5% 0,062W

- RESISTORS -

3419	4822 051 30152	1,5K 5% 0,062W
3420	4822 050 21003	10K 1% 0,6W
3421	4822 051 30562	5,6K 5% 0,063W
3422	4822 051 30471	470R 5% 0,062W
3423	4822 051 30102	1,5K 5% 0,062W
3424	4822 051 30152	1,5K 5% 0,062W
3425	4822 051 30222	2,2K 5% 0,062W
3426	4822 116 52269	3,3K 5% 0,5W
3427	4822 051 30562	5,6K 5% 0,063W
3428	4822 051 30103	10K 5% 0,062W
3429	4822 051 30103	10K 5% 0,062W
3430	4822 051 30562	5,6K 5% 0,063W
3431	4822 051 30471	470R 5% 0,062W
3432	4822 051 30102	1K 5% 0,062W
3433	4822 051 30152	1,5K 5% 0,062W
3434	4822 051 30222	2,2K 5% 0,062W
3435	4822 051 30332	3,3K 5% 0,062W
3436	4822 051 30562	5,6K 5% 0,063W
3437	4822 051 30223	22K 5% 0,062W
3438	4822 051 30223	22K 5% 0,062W
3439	4822 051 30102	1K 5% 0,062W
3440	4822 050 11002	1K 1% 0,4W
3441	4822 051 30102	1K 5% 0,062W
3449	4822 051 30223	22K 5% 0,062W
3450	4822 051 30103	10K 5% 0,062W
3451	4822 051 30471	470R 5% 0,062W
3452	4822 051 30103	10K 5% 0,062W
3453	4822 051 30102	1K 5% 0,062W
3454	4822 051 30102	1K 5% 0,062W
3455	4822 051 30102	1K 5% 0,062W
3456	4822 051 30102	1K 5% 0,062W
3457	4822 050 21003	10K 1% 0,6W
3458	4822 051 30102	1K 5% 0,062W
3459	4822 051 30221	220R 5% 0,062W
3460	4822 051 30471	470R 5% 0,062W
3461	4822 051 30472	4,7K 5% 0,062W
3462	4822 051 30472	4,7K 5% 0,062W
3463	4822 051 30472	4,7K 5% 0,062W
3464	4822 051 30472	4,7K 5% 0,062W
3465	4822 051 30472	4,7K 5% 0,062W
3466	4822 051 30472	4,7K 5% 0,062W
3467	4822 051 30222	2,2K 5% 0,062W
3468	4822 051 30222	2,2K 5% 0,062W
3469	4822 051 30471	470R 5% 0,062W
3470	4822 116 52263	2,7K 5% 0,5W
3471	4822 051 30333	33K 5% 0,062W
3472	4822 051 30474	470R 5% 0,062W
3473	4822 051 30472	4,7K 5% 0,062W
3474	4822 051 30102	1K 5% 0,062W
3475	4822 051 30331	330R 5% 0,062W

ELECTRICAL PARTSLIST - FRONT, LED AND COMBI BOARD

- RESISTORS -			- RESISTORS -		
3476	4822 051 30471	470R 5% 0,062W	3529	4822 116 52264	27K 5% 0,5W
3477	4822 051 30471	470R 5% 0,062W	3530	4822 116 52264	27K 5% 0,5W
3478	4822 051 30471	470R 5% 0,062W	3531	4822 116 52264	27K 5% 0,5W
3479	4822 051 30471	470R 5% 0,062W	3532	4822 116 52264	27K 5% 0,5W
3480	4822 051 30102	1K 5% 0,062W	3533	4822 051 30333	33K 5% 0,062W
3481	4822 051 30471	470R 5% 0,062W	3534	4822 051 30333	33K 5% 0,062W
3482	4822 051 30102	1K 5% 0,062W	3535	4822 117 13632	100K 1% 0,62W
3483	4822 051 30153	15K 5% 0,062W	3536	4822 117 13632	100K 1% 0,62W
3484	4822 051 30103	10K 5% 0,062W	3537	4822 117 12891	220K 1%
3485	4822 051 30392	3,9K 5% 0,063W	3538	4822 117 12891	220K 1%
3486	4822 051 30101	100R 5% 0,062W	3539	4822 051 30223	22K 5% 0,062W
3487	4822 051 30392	3,9K 5% 0,063W	3540	4822 051 30223	22K 5% 0,062W
3488	4822 051 30101	100R 5% 0,062W	3541	4822 051 30154	150K 5% 0,062W
3489	4822 051 30102	1K 5% 0,062W	3542	4822 051 30154	150K 5% 0,062W
3490	4822 051 30102	1K 5% 0,062W	3543	4822 117 12864	82K 5% 0,6W
3491	4822 051 30102	1K 5% 0,062W	3544	4822 117 12864	82K 5% 0,6W
3492	4822 051 30102	1K 5% 0,062W	3545	4822 051 30472	4,7K 5% 0,062W
3493	4822 051 30102	1K 5% 0,062W	3546	4822 051 30472	4,7K 5% 0,062W
3494	4822 051 30102	1K 5% 0,062W	3547	4822 051 30154	150K 5% 0,062W
3496	4822 051 30154	150K 5% 0,062W	3548	4822 051 30154	150K 5% 0,062W
3498	4822 051 30103	10K 5% 0,062W	3551	4822 051 30333	33K 5% 0,062W
3499	4822 051 30223	22K 5% 0,062W	3552	4822 051 30333	33K 5% 0,062W
3500	4822 117 12968	820R 5% 0,62W	3553	4822 117 12902	8,2K 1% 0,063W
3501	4822 051 30471	470R 5% 0,062W	3554	4822 117 12902	8,2K 1% 0,063W
3502	4822 116 52256	2,2K 5% 0,5W	3555	4822 051 30682	6,8K 5% 0,062W
3503	4822 051 30471	470R 5% 0,062W	3556	4822 051 30682	6,8K 5% 0,062W
3505	4822 051 20333	33K 5% 0,1W	3557	4822 051 30183	18K 5% 0,062W
3506	4822 051 20333	33K 5% 0,1W	3558	4822 051 30183	18K 5% 0,062W
3507	4822 117 12971	15R 5% 0,62W	3559	4822 051 30272	2,7K 5% 0,062W
3508	4822 117 12971	15R 5% 0,62W	3560	4822 051 30272	2,7K 5% 0,062W
3509	4822 051 20333	33K 5% 0,1W	3561	4822 050 21003	10K 1% 0,6W
3510	4822 051 20333	33K 5% 0,1W	3562	4822 050 21003	10K 1% 0,6W
3511	4822 117 13632	100K 1% 0,62W	3563	4822 117 11373	100R 1%
3512	4822 117 13632	100K 1% 0,62W	3565	4822 051 20109	10R 5% 0,1W
3513	4822 051 30153	15K 5% 0,062W	3566	4822 051 20109	10R 5% 0,1W
3514	4822 051 30153	15K 5% 0,062W	3567	4822 051 20109	10R 5% 0,1W
3515	4822 051 30333	33K 5% 0,062W	3568	4822 051 10102	1K 2% 0,25W
3516	4822 051 30333	33K 5% 0,062W	3572	4822 051 30103	10K 5% 0,062W
3517	4822 117 13632	100K 1% 0,62W	3573	4822 050 11002	1K 1% 0,4W
3518	4822 117 13632	100K 1% 0,62W	3574	4822 117 12925	47K 1% 0,063W
3519	4822 117 12891	220K 1%	3575	4822 051 30153	15K 5% 0,062W
3520	4822 117 12891	220K 1%	3576	4822 051 30153	15K 5% 0,062W
3521	4822 050 23303	33K 1% 0,6W	3577	4822 051 30471	470R 5% 0,062W
3522	4822 050 23303	33K 1% 0,6W	3578	4822 051 30471	470R 5% 0,062W
3523	4822 050 23303	33K 1% 0,6W	3579	4822 051 30154	150K 5% 0,062W
3524	4822 050 23303	33K 1% 0,6W	3580	4822 051 30154	150K 5% 0,062W
3525	4822 117 12891	220K 1%	3581	4822 051 30272	2,7K 5% 0,062W
3526	4822 117 12891	220K 1%	3582	4822 051 30272	2,7K 5% 0,062W
3527	4822 117 12891	220K 1%	3583	4822 051 30472	2,7K 5% 0,062W
3528	4822 117 12891	220K 1%	3584	4822 051 30472	2,7K 5% 0,062W

ELECTRICAL PARTSLIST - FRONT, LED AND COMBI BOARD**- RESISTORS -**

3585 4822 051 30222 2,7K 5% 0,062W
 3586 4822 051 30222 2,7K 5% 0,062W
 3587 4822 051 30392 3,9K 5% 0,063W
 3588 4822 051 30392 3,9K 5% 0,063W
 3589 4822 116 83872 220R 5% 0,5W

3901 4822 051 20121 120R 5% 0,1W
 3902 4822 051 20121 120R 5% 0,1W
 3903 4822 051 20121 120R 5% 0,1W
 3904 4822 051 20121 120R 5% 0,1W
 3905 4822 117 12521 68R 1% 0,1W

4260 4822 051 10008 0R 5% 0,25W
 4261 4822 051 10008 0R 5% 0,25W
 4262 4822 051 20008 0R JUMPER(0805)
 4263 4822 051 10008 0R 5% 0,25W
 4264 4822 051 10008 0R 5% 0,25W

4265 4822 051 10008 0R 5% 0,25W
 4266 4822 051 20008 0R JUMPER(0805)
 4333 4822 051 20008 0R JUMPER(0805)
 4334 4822 051 20008 0R JUMPER(0805)
 4335 4822 051 20008 0R JUMPER(0805)

4401 4822 051 30008 0R JUMPER
 4410 4822 051 10008 0R 5% 0,25W
 4411 4822 051 10008 0R 5% 0,25W
 4412 4822 051 30008 0R JUMPER
 4413 4822 051 30008 0R JUMPER

4414 4822 051 10008 0R 5% 0,25W
 4415 4822 051 10008 0R 5% 0,25W
 4416 4822 051 30008 0R JUMPER
 4419 4822 051 30008 0R JUMPER
 4420 4822 051 30008 0R JUMPER

4510 4822 051 10008 0R 5% 0,25W
 4512 4822 051 20008 0R JUMPER(0805)
 4513 4822 051 20008 0R JUMPER(0805)
 4560 4822 051 10008 0R 5% 0,25W
 4561 4822 051 20008 0R JUMPER(0805)

4562 4822 051 10008 0R 5% 0,25W
 4563 4822 051 10008 0R 5% 0,25W
 4564 4822 051 10008 0R 5% 0,25W
 4565 4822 051 10008 0R 5% 0,25W
 4566 4822 051 20008 0R JUMPER(0805)

4567 4822 051 10008 0R 5% 0,25W
 4568 4822 051 20008 0R JUMPER(0805)
 4569 4822 051 10008 0R 5% 0,25W
 4570 4822 051 20008 0R JUMPER(0805)
 4571 4822 051 10008 0R 5% 0,25W

4572 4822 051 20008 0R JUMPER(0805)
 4573 4822 051 10008 0R 5% 0,25W

- COILS & FILTERS -

5331 4822 157 11837 0,36µH 10% 5,6X5
 5332 4822 157 11837 0,36µH 10% 5,6X5
 5333 4822 157 11837 0,36µH 10% 5,6X5
 5334 4822 157 11837 0,36µH 10% 5,6X5
 5400 3198 018 11580 FXDIND A 1,5µH 5%

5401 3198 018 11580 FXDIND A 1,5µH 5%
 5402 2422 540 98518 8MHZ CSTS*MG03
 5403 2422 543 01069 RES XTL 32KHZ768
 5550 4822 157 10686 CHOKE COIL 0,47µF
 5551 4822 157 10686 CHOKE COIL 0,47µF

- DIODES -

6254 4822 130 31878 1N4003G
 6255 4822 130 31878 1N4003G
 6256 4822 130 31878 1N4003G
 6257 4822 130 31878 1N4003G
 6258 4822 130 31878 1N4003G

6259 4822 130 31878 1N4003G
 6260 4822 130 31878 1N4003G
 6261 4822 130 31878 1N4003G
 6262 4822 130 31878 1N4003G
 6263 4822 130 31878 1N4003G

6264 4822 130 31878 1N4003G
 6265 4822 130 31878 1N4003G
 6266 4822 130 30621 1N4148
 6267 4822 130 30621 1N4148
 6268 4822 130 34382 BZX79-B8V2

6271 4822 130 34278 BZX79-B6V8
 6272 4822 130 61219 BZX79-B10
 6275 3198 010 53380 BZX79-B3V3
 6331 4822 130 30621 1N4148
 6332 4822 130 30621 1N4148

6333 4822 130 30621 1N4148
 6400 4822 130 30621 1N4148
 6401 4822 130 30621 1N4148
 6500 4822 130 30621 1N4148
 6550 3198 010 53380 BZX79-B3V3

6901 9322 070 81682 TLHY4405
 6902 9322 070 81682 TLHY4405
 6903 9322 070 81682 TLHY4405
 6904 9322 070 81682 TLHY4405
 6905 9322 070 81682 TLHY4405

6906 9322 070 81682 TLHY4405
 6907 9322 070 81682 TLHY4405
 6908 9322 070 81682 TLHY4405
 6909 9322 070 81682 TLHY4405
 6910 9322 070 81682 TLHY4405

ELECTRICAL PARTSLIST - FRONT, LED AND COMBI BOARD**- DIODES -**

6911 9322 070 81682 TLHY4405
 6912 9322 070 81682 TLHY4405

- MISCELLANEOUS -

6 4822 492 71733 CLAMP
 7 4822 255 40179 CLIP
 9 3140 114 29180 LCD HOLDER
 1001 3139 110 35580 FFC Foil 05P/040/05P AD
 1002 3139 110 35590 FFC Foil 08P/038/08P AD

- IC & TRANSISTORS -

7250 9322 139 24687 BDW94CFP
 7251 5322 130 60159 BC846B
 7252 5322 130 60159 BC846B
 7253 5322 130 44647 BC368
 7254 5322 130 44593 BC369

5601 3140 118 32450 TRANSFORMER 120V 60H (-/37)
 5601 3140 118 32430 TRANSFORMER 230V 50 (-/25)
 5601 3140 118 32430 TRANSFORMER 230V 50 (-/30)
 5601 3140 118 32430 TRANSFORMER 230V 50 (-/22)
 5601 3140 118 32440 TRANSFORMER EI66-35 IEC-65

7255 5322 130 60159 BC846B
 7256 4822 130 41246 BC327-25
 7257 4822 130 41246 BC327-25
 7258 4822 130 41246 BC327-25
 7259 5322 130 60159 BC846B

8000 3140 110 22351 FFC Foil 16P/280/16P AD
 8001 3140 110 21220 FFC Foil 06P/220/6P AD
 8005 3140 110 21210 FFC Foil 6P/220/6P AD
 8007 3140 110 21240 FFC Foil 8P/180/8P AD
 8008 2422 070 98203 MAINSCORD 6A 1M8 (-/37)

7260 5322 130 60845 BC807-25
 7261 5322 130 60159 BC846B
 7330 9322 133 18682 AN7125P
 7331 4822 130 60373 BC856B
 7332 4822 130 60373 BC856B

8008 2422 070 98204 MAINSCORD 7A5 1M88 (-/30)
 8008 2422 070 98203 MAINSCORD 6A 1M8(-/22)
 8008 2422 070 98244 MAINSCORD 2A5 1M8 (-/21)
 8009 3139 110 35900 FFC Foil 07P/220/07P AD
 8010 3140 110 21840 FFC Foil 7P/120/7P AD

7333 5322 130 60159 BC846B
 7400 3140 110 51791 TMP87CP23F MC220
 7402 5322 130 60159 BC846B
 7403 5322 130 60159 BC846B
 7404 9322 155 82667 IR RECEIVER TSOP2236

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

7405 9322 140 83682 M24C01-BN6
 7500 4822 209 10264 HEF4069UBP
 7501 4822 130 44568 BC557B
 7502 4822 130 44568 BC557B
 7503 4822 130 44568 BC557B

7504 4822 130 44568 BC557B
 7505 5322 130 60159 BC846B
 7506 5322 130 60159 BC846B
 7507 5322 130 60159 BC846B
 7508 5322 130 60159 BC846B

7509 5322 130 60159 BC846B
 7510 5322 130 60159 BC846B
 7511 5322 130 60159 BC846B
 7512 5322 130 60159 BC846B
 7513 5322 130 60159 BC846B

7514 5322 130 60159 BC846B
 7550 4822 130 42804 BC817-25
 7551 4822 209 10263 HEF4052BP
 7552 5322 209 10421 HEF4094BP
 7553 4822 130 41327 BC327-40

7555 5322 130 60159 BC846B
 7556 5322 130 60159 BC846B

ELECTRICAL PARTSLIST - TUNER BOARD ECO6 (Cenelec)

MISCELLANEOUS			RESISTORS		
1102	4822 267 10283	FM Ant. Socket	3105	4822 051 30221	220R 5% 0,1W
1103	4822 265 31184	AM Ant. Socket	3108	4822 051 30222	2K2 5% 0,1W
1110	2422 542 90071	FM Frontend FE450-G01	3109	4822 051 30472	4K7 5% 0,1W
CAPACITORS			3123	4822 051 30472	4K7 5% 0,1W
2102	4822 126 14305	100nF 10% X7R 16V	3125	4822 051 30103	10K 5% 0,1W
2106	2020 800 00204	CTRM 4,2-20 pF N750	3128	4822 051 30222	2K2 5% 0,1W
2107	4822 121 51319	1µF 10% 63V	3130	4822 117 12968	820R 5% 0,6W
2108	4822 122 31765	100pF 2% NP0 63V	3131	4822 117 12968	820R 5% 0,6W
2109	4822 122 33741	10pF 10% NP0 50V	3132	4822 051 30479	47R 5% 0,1W
2120	4822 122 33761	22pF 5% NP0 50V	3134	4822 051 30223	22K 5% 0,1W
2122	5322 126 11579	3,3nF 10% X7R 63V	3135	4822 051 30102	1K 5% 0,1W
2123	2238 861 18391	390pF 10% NP0 50V	3137	4822 051 30223	22K 5% 0,1W
2125	2238 861 18561	560pF 10% NP0 50V	3141	4822 051 30563	56K 5% 0,1W
2127	4822 126 13879	220nF +80-20% 16V	3142	4822 100 12159	100K 30%
2128	4822 124 40248	10µF 20% 63V	3143	4822 051 30223	22K 5% 0,1W
2129	4822 124 41584	100µF 20% 10V	3144	4822 051 30102	1K 5% 0,1W
2130	4822 126 14494	22nF 10% X7R 25V	3145	4822 051 30222	2K2 5% 0,1W
2131	3198 017 44740	470nF +80-20% 10V	3146	4822 117 12139	22R 5% 0,1W
2132	3198 017 44740	470nF +80-20% 10V	3150	4822 051 30103	10K 5% 0,1W
2133	4822 124 21913	1µF 20% 63V	3151	4822 051 30683	68K 5% 0,1W
2134	2020 552 94387	18nF 10% X7R 50V	3152	4822 051 30471	470R 5% 0,1W
2134	3198 017 31530	15nF 10% X7R 50V	3153	4822 051 30471	470R 5% 0,1W
2135	3198 017 31530	15nF 10% X7R 50V	3154	4822 051 30331	330R 5% 0,1W
2135	4822 122 33893	18nF10% X7R 63V	3155	4822 051 30151	150R 5% 0,1W
2136	4822 126 13879	220nF +80-20% 16V	3158	4822 051 30471	470R 5% 0,1W
2137	4822 126 13879	220nF +80-20% 16V	3159	4822 051 30471	470R 5% 0,1W
2138	4822 124 22652	2,2µF 20% 50V	3160	4822 051 30471	470R 5% 0,1W
2139	4822 122 33752	15pF 5% NP0 50V	3161	4822 051 30223	22K 5% 0,1W
2140	4822 126 14226	82pF 5% NP0 50V	3167	4822 051 20121	120R 5% 0,1W
2140	4822 126 14226	82pF 5% NP0 50V	3168	4822 051 30121	120R 5% 0,1W
2141	4822 126 14305	100nF 10% X7R 16V	3169	4822 051 30154	150K 5% 0,1W
2143	4822 126 13879	220nF +80-20% 16V	3171	4822 117 12925	47K 1% 0,1W
2144	4822 124 21913	1µF 20% 63V	3172	4822 051 30562	5K6 5% 0,1W
2145	4822 126 13883	220pF 5% 50V	3176	4822 051 30333	33K 5% 0,1W
2146	4822 122 33575	220pF 5% NP0 63V	3180	4822 051 30103	10K 5% 0,1W
2147	4822 122 33575	220pF 5% NP0 63V	3190	4822 051 30121	120R 5% 0,1W
2148	4822 122 33127	2,2nF10% X7R 63V	3191	4822 051 30121	120R 5% 0,1W
2149	4822 126 11671	33pF 1% 50V	3192	4822 051 30331	330R 5% 0,1W
2150	4822 126 13838	100nF +80-20% 50V	3193	4822 051 30331	330R 5% 0,1W
2159	4822 126 11671	33pF 1% 50V	3194	4822 051 30222	2K2 5% 0,1W
2162	4822 124 81151	22µF 20% 50V	3195	4822 051 30101	100R 5% 0,1W
2163	4822 126 14305	100nF 10% X7R 16V	4105	4822 051 20008	0R Jumper 0805
2164	3198 017 44740	470nF +80-20% 10V	4106	4822 051 30008	0R Jumper 0603
2165	4822 126 14305	100nF 10% X7R 16V	4107	4822 051 20008	0R Jumper 0805
2166	5322 122 31647	1nF10% X7R 63V			
2167	4822 126 11663	12pF 1% 50V			
2169	4822 126 14238	2,2nF 20% X7R 50V			
2180	5322 126 11583	10nF 10% X7R 50V			
2191	4822 124 41584	100µF 20% 10V			

ELECTRICAL PARTSLIST - TUNER BOARD ECO6 (Cenelec)**COILS AND FILTERS**

5102	4822 157 71634	MW Aerial Coil
5103	2422 549 44107	LW Aerial Coil
5109	4822 157 71639	FM IF SFE10,7MJA10H-A
5110	4822 242 70665	FM IF SFE10,7MS3-A
5111	2422 549 44023	AM IF 7PY 450KHZ
5112	4822 157 70302	AM IF F7MCS-12216N
5114	4822 157 70302	AM IF F7MCS-12216N
5115	4822 157 71636	Birdie Filter Coil
5118	2422 535 95881	Inductor 0,1µH 5%
5119	4822 157 11443	FM Disc 2,4µH 10,7MHz
5121	4822 242 10261	Crystal 75KHz T6252F00
5122	2422 549 44108	MW Osc Coil
5123	2422 549 44108	LW Osc Coil

DIODES

6105	4822 130 83075	HN1V02H-B
6106	4822 130 83757	BAS216
6107	9340 386 90115	BZX284-C11
6120	4822 130 83757	BAS216

TRANSISTORS & IC

7101	9351 772 20557	TEA5762H/V1
7103	5322 130 42756	BC857C
7104	4822 130 40855	BC337
7105	4822 130 40855	BC337
7109	4822 130 60373	BC856B
7110	4822 130 60373	BC856B
7112	4822 130 44503	BC547C
7122	5322 130 42755	BC847C
7124	5322 130 42755	BC847C

ELECTRICAL PARTSLIST - TUNER BOARD ECO6 (Non cenelec)

MISCELLANEOUS			RESISTORS		
1102	4822 267 10283	FM Ant. Socket	3101	4822 051 30333	33K 5% 0,1W
1103	4822 265 31184	AM Ant. Socket	3102	4822 117 13632	100K 1% 0,62W
1120	4822 265 11515	FFC Socket 8P	3103	4822 117 12902	8K2 1% 0,1W
CAPACITORS			3104	4822 117 13577	330R 1% 0,25W
2101	4822 122 33777	47pF 5% NPO 63V	3105	4822 051 30221	220R 5% 0,1W
2102	4822 126 14305	100nF 10% X7R 16V	3132	4822 051 30479	47R 5% 0,1W
2103	5322 126 11578	1nF 10% X7R 50V	3134	4822 051 30223	22K 5% 0,1W
2104	4822 122 31765	100pF 2% NP0 63V	3141	4822 051 30563	56K 5% 0,1W
2106	2020 800 00191	CTRM 3P-11P N450	3142	4822 100 12159	100K 30% Var.
2107	4822 121 51319	1µF 10% 63V	3145	4822 051 30222	2K2 5% 0,1W
2120	4822 126 14507	18pF 5% 50V	3146	4822 117 12139	22R 5% 0,1W
2124	4822 126 14494	22nF 10% X7R 25V	3152	4822 051 30471	470R 5% 0,1W
2125	2238 861 18561	560pF 1% NP0 50V	3153	4822 051 30471	470R 5% 0,1W
2126	4822 126 14241	330pF 10% NP0 50V	3154	4822 051 30331	330R 5% 0,1W
2127	4822 126 13879	220nF +80-20% 16V	3155	4822 051 30221	220R 5% 0,1W
2128	4822 124 40248	10µF 20% 63V	3156	4822 117 13632	100K 1% 0,62W
2129	4822 124 41584	100µF 20% 10V	3158	4822 051 30471	470R 5% 0,1W
2130	4822 126 14494	22nF 10% X7R 25V	3159	4822 051 30471	470R 5% 0,1W
2131	3198 017 44740	470nF +80-20% 10V	3160	4822 051 30471	470R 5% 0,1W
3161	4822 051 20223		3161	4822 051 20223	22K 5% 0,1W
2132	3198 017 44740	470nF +80-20% 10V	3167	4822 051 20121	120R 5% 0,1W
2133	4822 124 21913	1µF 20% 63V	3168	4822 051 30121	120R 5% 0,1W
2134	3198 017 31530	15nF 20% X7R 50V	3169	4822 051 30154	150K 5% 0,1W
2135	3198 017 31530	15nF 20% X7R 50V	3170	4822 117 13632	100K 1% 0,62W
2136	4822 126 13879	220nF +80-20% 16V	3172	4822 051 30562	5K6 5% 0,1W
2137	4822 126 13879	220nF +80-20% 16V	3181	4822 051 30102	1K 5% 0,1W
2138	4822 124 22652	2,2µF 20% 50V	4103	4822 051 30008	0R Jumper 0603
2139	4822 122 33752	15pF 5% NPO 50V	4106	4822 051 20008	0R Jumper 0805
2140	4822 126 14226	82pF 5% NP0 50V	4107	4822 051 30008	0R Jumper 0603
2141	4822 126 14305	100nF 10% X7R 16V	4108	4822 051 30008	0R Jumper 0603
2143	4822 126 13879	220nF +80-20% 16V			
2144	4822 124 21913	1µF 20% 63V			
2145	4822 126 13883	220pF 5% 50V			
2146	4822 126 13883	220pF 5% 50V			
2147	4822 126 13883	220pF 5% 50V			
COILS AND FILTERS					
2148	4822 126 14238	2,2nF 10% X7R 50V	5102	4822 157 71634	MW Aerial Coil
2150	4822 126 14585	100nF 10% X7R 50V	5109	4822 242 70665	FM IF SFE10,7MS3-A
2152	4822 126 14549	33nF 10% 16V	5110	4822 242 70665	FM IF SFE10,7MS3-A
2153	4822 122 33752	15pF 5% NP0 50V	5111	2422 549 44023	AM IF 7PY 450KHZ
2155	2020 800 00191	CTRM 3P-11P N450	5112	4822 157 70302	AM IF F7MCS-12216N
2159	4822 126 11671	33pF 1% 50V	5114	4822 157 70302	AM IF F7MCS-12216N
2164	3198 017 44740	470nF +80-20% 10V	5119	4822 157 11443	FM Disr 2,4µH 10,7MHz
2165	4822 126 14305	100nF 10% X7R 16V	5121	4822 242 10261	Crystal 75KHz T6252F00
2166	5322 126 11578	1nF 10% X7R 50V	5123	2422 549 44108	MW Osc Coil
2167	4822 126 11663	12pF 1% 50V	5130	4822 157 11843	FM RF Coil
			5131	4822 157 11843	FM RF Coil

ELECTRICAL PARTSLIST - TUNER BOARD ECO6 (Non cenelec)**DIODES**

6103	5322 130 34337	BAV99
6105	4822 130 83075	HN1V02H-B
6106	4822 130 83757	BAS216
6107	9340 386 90115	BZX284-C11
6130	4822 130 82833	1SV228
6131	4822 130 82833	1SV228

TRANSISTORS & IC

7101	9351 740 80557	TEA5757H/V1
7102	4822 130 42131	BF550
7111	5322 130 42755	BC847C
7112	4822 130 40959	BC547B

ELECTRICAL PARTSLIST - ETF8 SD BOARD**- CAPACITORS -**

2621 5322 126 11578 1nF 10% X7R 50V
 2622 4822 126 13881 470pF 5% 50V
 2623 4822 126 13881 470pF 5% 50V
 2625 4822 126 14305 100nF 10% X7R 16V
 2701 4822 122 31765 100pF 2% NP0 63V

2702 4822 122 31765 100pF 2% NP0 63V
 2703 4822 122 31765 100pF 2% NP0 63V
 2704 4822 122 31765 100pF 2% NP0 63V
 2709 5322 126 11578 1nF 10% X7R 50V
 2710 5322 126 11578 1nF 10% X7R 50V

2711 4822 122 31765 100pF 2% NP0 63V
 2712 4822 122 31765 100pF 2% NP0 63V
 2713 5322 121 42386 100nF 5% 63V
 2714 5322 121 42386 100nF 5% 63V
 2715 4822 124 41584 100µF 20% 10V

2716 4822 124 41584 100µF 20% 10V
 2717 3198 017 31530 15nF 20% X7R 50V
 2718 3198 017 31530 15nF 20% X7R 50V
 2719 4822 126 14549 33nF 10% X7R 16V
 2720 4822 126 14549 33nF 10% X7R 16V

2721 3198 017 41050 1µF 20% Y5V 10V
 2722 3198 017 41050 1µF 20% Y5V 10V
 2723 4822 126 14238 2,2nF 20% X7R 50V
 2724 4822 126 14238 2,2nF 20% X7R 50V
 2725 4822 126 13883 220pF 5% 50V

2727 4822 126 14238 2,2nF 20% X7R 50V
 2728 4822 126 14238 2,2nF 20% X7R 50V
 2729 4822 126 14494 22nF 10% X7R 25V
 2730 4822 126 14494 22nF 10% X7R 25V
 2731 5322 126 11578 1nF 10% X7R 50V

2732 3198 017 41050 1µF 20% Y5V 10V
 2743 4822 126 14494 22nF 10% X7R 25V
 2747 4822 126 14549 33nF 10% X7R 16V
 2761 4822 124 40196 220µF 20% 16V
 2768 4822 124 40756 1µF 20% 100V

2769 4822 126 14238 2,2nF 20% X7R 50V
 2770 4822 126 14238 2,2nF 20% X7R 50V
 2780 4822 124 81151 22µF 20% 50V
 2781 5322 126 11583 10nF 10% X7R 50V
 2782 4822 126 13193 4,7nF 10% X7R 63V

2784 4822 121 51305 15nF 10% 50V
 2785 4822 124 21913 1µF 20% 63V
 2786 4822 122 31765 100pF 2% NP0 63V
 2787 4822 126 14549 33nF 10% X7R 16V
 2782 4822 126 13193 4,7nF 10% X7R 63V

2784 4822 121 51305 15nF 10% 50V
 2785 4822 124 21913 1µF 20% 63V
 2786 4822 122 31765 100pF 2% NP0 63V
 2787 4822 126 14549 33nF 10% X7R 16V
 2788 4822 126 14494 22nF 10% X7R 25V

- CAPACITORS -

2789 4822 126 14549 33nF 10% X7R 16V
 2790 4822 126 14247 1,5nF 20% X7R 50V
 2791 4822 126 14247 1,5nF 20% X7R 50V
 2793 4822 126 13883 220pF 5% 50V
 2794 4822 126 13883 220pF 5% 50V

2795 4822 124 40756 1µF 20% 100V
 2796 4822 124 40433 47µF 20% 25V
 2797 4822 124 81151 22µF 20% 50V
 2798 4822 124 21732 10µF 20% 25V
 2799 4822 126 14305 100nF 10% X7R 16V

RESISTORS

2732 4822 117 11817 1,2K 1% 0,1W
 3607 4822 051 30222 2,2K 5% 0,1W
 3608 4822 051 30273 27K 5% 0,1W
 3609 4822 051 30222 2,2K 5% 0,1W
 3610 4822 051 20124 120K 5% 0,1W

3611 4822 051 30222 2,2K 5% 0,1W
 3612 4822 051 30563 56K 5% 0,1W
 3614 4822 051 30273 27K 5% 0,1W
 3624 4822 117 13632 100K 1% 0,1W
 3626 4822 051 30102 1K 5% 0,1W

3628 4822 117 13632 100K 1% 0,1W
 3630 4822 051 30471 470R 5% 0,1W
 3678 4822 117 12925 47K 1% 0,1W
 3680 4822 117 12925 47K 1% 0,1W
 3686 4822 117 13632 100K 1% 0,1W

3709 4822 051 30339 33R 5% 0,1W
 3710 4822 051 30339 33R 5% 0,1W
 3711 4822 051 30101 100R 5% 0,1W
 3712 4822 051 30101 100R 5% 0,1W
 3717 4822 117 11817 1,2K 1% 0,1W

3718 4822 117 11817 1,2K 1% 0,1W
 3719 4822 051 30272 2,7K 5% 0,1W
 3720 4822 051 30272 2,7K 5% 0,1W
 3721 4822 051 30562 5,6K 5% 0,1W
 3722 4822 051 30562 5,6K 5% 0,1W

3723 4822 051 30183 18K 5% 0,1W
 3724 4822 051 30183 18K 5% 0,1W
 3733 4822 051 30273 27K 5% 0,1W
 3734 4822 051 30273 27K 5% 0,1W
 3735 4822 051 30223 22K 5% 0,1W

3736 4822 051 30223 22K 5% 0,1W
 3737 4822 051 30102 1K 5% 0,1W
 3738 4822 051 30102 1K 5% 0,1W
 3739 4822 117 12925 47K 1% 0,1W
 3740 4822 117 12925 47K 1% 0,1W

ELECTRICAL PARTSLIST - ETF8 SD BOARD**RESISTORS**

3743	4822 051 30563	56K 5% 0,1W
3744	4822 051 30563	56K 5% 0,1W
3745	4822 117 11817	1,2K 1% 0,1W
3746	4822 117 11817	1,2K 1% 0,1W
3749	4822 051 30121	120R 5% 0,1W

3750	4822 051 30121	120R 5% 0,1W
3762	4822 117 12968	820R 5% 0,1W
3764	4822 051 30181	180R 5% 0,1W
3768	4822 051 30103	10K 5% 0,1W
3769	4822 051 30223	22K 5% 0,1W

3770	4822 051 30152	1,5K 5% 0,1W
3771	4822 117 11817	1,2K 1% 0,1W
3772	4822 051 30153	15K 5% 0,1W
3774	4822 051 30183	18K 5% 0,1W
3775	4822 117 13608	4,7R 5% 0,1W

3776	4822 051 30682	6,8K 5% 0,1W
3777	4822 051 30151	150R 5% 0,1W
3778	4822 052 10688	6,8R 5% 0,33W
3779	4822 051 30334	330K 5% 0,1W
3780	4822 051 30105	1M 5% 0,1W

3781	4822 051 30475	4,7M 5% 0,1W
3786	4822 051 30223	22K 5% 0,1W
3789	4822 117 12925	47K 1% 0,1W
3790	4822 051 30223	22K 5% 0,1W
3791	4822 051 30273	27K 5% 0,1W

3792	4822 117 12925	47K 1% 0,1W
3793	4822 117 12925	47K 1% 0,1W
3794	4822 051 30102	1K 5% 0,1W
3795	4822 051 30102	1K 5% 0,1W
3796	4822 051 30475	4,7M 5% 0,1W

3797	4822 051 30563	56K 5% 0,1W
3800	4822 051 30273	27K 5% 0,1W
4701	4822 051 30008	0R JUMPER 0603
4702	4822 051 30008	0R JUMPER 0603
4705	4822 051 30008	0R JUMPER 0603

4707	4822 051 30008	0R JUMPER 0603
4708	4822 051 30008	0R JUMPER 0603
4709	4822 051 30008	0R JUMPER 0603
4710	4822 051 30008	0R JUMPER 0603
4711	4822 051 30008	0R JUMPER 0603

4712	4822 051 30008	0R JUMPER 0603
4718	4822 051 30008	0R JUMPER 0603
4719	4822 051 30008	0R JUMPER 0603
4720	4822 051 30008	0R JUMPER 0603
4721	4822 051 30008	0R JUMPER 0603

4723	4822 051 30008	0R JUMPER 0603
4725	4822 051 30008	0R JUMPER 0603
4726	4822 051 30008	0R JUMPER 0603
4727	4822 051 30008	0R JUMPER 0603
4729	4822 051 30008	0R JUMPER 0603

RESISTORS

4730	4822 051 30008	0R JUMPER 0603
4731	4822 051 30008	0R JUMPER 0603
4732	4822 051 30008	0R JUMPER 0603
4733	4822 051 30008	0R JUMPER 0603
4734	4822 051 30008	0R JUMPER 0603

4735	4822 051 30008	0R JUMPER 0603
4738	4822 051 30008	0R JUMPER 0603
4739	4822 051 30008	0R JUMPER 0603
4741	4822 051 30008	0R JUMPER 0603
4746	4822 051 30008	0R JUMPER 0603

4747	4822 051 30008	0R JUMPER 0603
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COILS & FILTERS

5701	4822 157 62552	Coil 2,2 μ H 5%
5703	4822 156 20946	Osc Coil 100MHz

DIODES

6612	4822 130 31878	1N4003G
6770	4822 130 30621	1N4148
6771	4822 130 30621	1N4148
6772	4822 130 30621	1N4148
6773	4822 130 30621	1N4148

6774	4822 130 30621	1N4148
6776	4822 130 30621	1N4148
6777	3198 010 58280	BZX79-B8V2
6778	4822 130 30621	1N4148

TRANSISTORS & IC

7610	5322 209 11306	HEF4094BT
7612	4822 130 11201	PMBT2907
7614	4822 130 11201	PMBT2907
7618	4822 130 60511	BC847B
7620	4822 130 60511	BC847B
7624	4822 130 60511	BC847B
7720	9322 167 09668	AN17150ATA
7780	4822 130 60511	BC847B
7781	4822 130 42804	BC817-25
7782	4822 130 44568	BC557B
7783	4822 130 60511	BC847B
7784	4822 130 60373	BC856B
7786	4822 130 63494	FET J111
7788	4822 130 60511	BC847B
7789	4822 130 60511	BC847B
7790	4822 130 60511	BC847B

ELECTRICAL PARTSLIST - ETF8 SD BOARD

MISCELLANEOUS

1701	4822 267 10953	FFC Socket 7 pin Ver.
1706	4822 267 10953	FFC Socket 7 pin Ver.
1710	4822 267 10958	FFC Socket 5 pin Hor.
1760	4822 265 11535	FFC Socket 8 pin Hor.

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

ELECTRICAL PARTSLIST - CD99/DA11 BOARD

MISCELLANEOUS			CAPACITORS		
1800	4822 265 10925	FFC Socket 15P	2849	4822 126 13883	220pF 5% 50V
1823	4822 265 11207	FFC Socket 6P	2850	4822 126 13883	220pF 5% 50V
1824	4822 265 11207	FFC Socket 6P	2851	4822 124 40248	10µF 20% 63V
CAPACITORS			2853	5322 126 11583	10nF 10% X7R 50V
2801	4822 124 41751	47µF 20% 50V	2854	4822 124 11912	220µF 20% 6,3V
2802	4822 124 41751	47µF 20% 50V	2855	4822 124 11912	220µF 20% 6,3V
2803	4822 126 14226	82pF 5% NP0 50V	2857	4822 124 12362	47µF 20% 4V
2804	4822 126 14226	82pF 5% NP0 50V	2860	5322 116 80853	560pF 5% 63V
2805	4822 126 14226	82pF 5% NP0 50V	2861	4822 126 13344	1,5nF 5% 63V
2806	4822 126 13695	82pF 1% NP0 63V	2862	4822 126 14508	180pF 5% 50V
2807	4822 126 11669	27pF 5% 50V	2863	4822 126 14508	180pF 5% 50V
2808	5322 122 33538	150pF 2% NP0 63V	2864	4822 126 14508	180pF 5% 50V
2809	4822 126 11669	27pF 5% 50V	2865	4822 126 14508	180pF 5% 50V
2810	4822 126 13692	47pF 1% NP0 63V	2869	3198 024 44730	47nF Y5V 50V
2811	4822 126 11671	33pF 5% 50V	2870	4822 126 13883	220pF 5% 50V
2812	4822 122 33741	10pF 10% NP0 50V	2871	4822 126 13883	220pF 5% 50V
2813	4822 126 14238	2,2nF X7R 50V	2872	4822 126 13883	220pF 5% 50V
2814	3198 024 44730	47nF Y5V 50V	2873	4822 126 13883	220pF 5% 50V
2815	4822 122 33777	47pF 5% NP0 63V	2874	4822 126 13883	220pF 5% 50V
2816	5322 122 32654	22nF 10% 63V	2875	4822 126 13883	220pF 5% 50V
2817	4822 124 40769	4,7µF 20% 100V			
2818	3198 024 44730	47nF Y5V 50V			
2821	4822 126 14305	100nF 10% X7R 16V			
2822	4822 126 13344	1,5nF 5% 63V			
2823	4822 124 42383	220µF 20% 4V	3728	4822 051 20479	47R 5% 0,1W
2824	4822 126 13751	47nF 10% X7R 63V	3745	4822 051 30338	3R3 5% 0,1W
2825	4822 126 13344	1,5nF 5% 63V	3757	4822 051 20223	22K 5% 0,1W
2826	3198 024 44730	47nF Y5V 50V	3788	4822 051 20472	4K7 5% 0,1W
2827	5322 126 11578	1nF 10% X7R 50V	3800	4822 117 13608	4R7 5% 0,1W
2828	4822 122 33777	47pF 5% NP0 63V	3801	4822 051 30154	150K 5% 0,1W
2829	3198 024 44730	47nF Y5V 50V	3802	4822 051 30102	1K 5% 0,1W
2830	3198 017 41050	1µF Y5V 10V	3803	4822 051 30273	27K 5% 0,1W
2831	4822 126 14043	1µF +80-20% 16V	3804	4822 051 30472	4K7 5% 0,1W
2832	4822 122 33753	150pF 5% NP0 50V	3805	4822 051 30273	27K 5% 0,1W
2833	4822 126 13881	470pF 5% 50V	3806	4822 117 10361	680R 1% 0,1W
2834	4822 126 14506	270pF 5% 50V	3807	4822 051 30152	1K5 5% 0,1W
2835	4822 126 13881	470pF 5% 50V	3808	4822 051 30339	33R 5% 0,1W
2836	4822 124 41751	47µF 20% 50V	3809	4822 051 30339	33R 5% 0,1W
2837	3198 024 44730	47nF Y5V 50V	3810	4822 052 10478	4R7 5% 0,33W
2838	3198 017 42230	22nF Y5V 50V	3811	4822 051 30102	1K 5% 0,1W
2839	4822 126 14305	100nF 10% X7R 16V	3812	4822 051 30474	470K 5% 0,1W
2840	4822 124 41751	47µF 20% 50V	3813	4822 051 30683	68K 5% 0,1W
2841	4822 126 13751	47nF 10% X7R 63V	3814	4822 051 30332	3K3 5% 0,1W
2842	4822 124 21913	1µF 20% 63V	3815	4822 051 30472	4K7 5% 0,1W
2843	4822 122 31765	100pF 2% NP0 63V	3816	4822 051 30153	15K 5% 0,1W
2844	4822 126 13883	220pF 5% 50V	3817	4822 117 10834	47K 1% 0,1W
2845	4822 126 13883	220pF 5% 50V	3818	4822 051 20562	5K6 5% 0,1W
2846	4822 124 40248	10µF 20% 63V	3819	4822 051 30153	15K 5% 0,1W
2848	4822 122 31765	100pF 2% NP0 63V	3820	4822 051 30183	18K 5% 0,1W

ELECTRICAL PARTSLIST - CD99/DA11 BOARD

RESISTORS			RESISTORS		
3821	4822 051 20332	3K3 5% 0,1W	3878	4822 051 30471	470R 5% 0,1W
3822	4822 051 30332	3K3 5% 0,1W	3879	4822 117 12925	47K 1% 0,1W
3823	4822 051 20332	3K3 5% 0,1W	3880	4822 051 20339	33R 5% 0,1W
3824	4822 051 30102	1K 5% 0,1W	3881	4822 051 30151	150R 5% 0,1W
3825	4822 051 30223	22K 5% 0,1W	3882	4822 117 11373	100R 1% 0,1W
3826	4822 051 30273	27K 5% 0,1W	3883	4822 051 30102	1K 5% 0,1W
3827	4822 051 20339	33R 5% 0,1W	3884	4822 051 30102	1K 5% 0,1W
3828	4822 051 20479	47R 5% 0,1W	3886	4822 117 10833	10K 1% 0,1W
3829	4822 051 30101	100R 5% 0,1W	3887	4822 117 10833	10K 1% 0,1W
3830	4822 051 30472	4K7 5% 0,1W	3888	4822 051 20472	4K7 5% 0,1W
3835	4822 051 30223	22K 5% 0,1W	3889	4822 051 30102	1K 5% 0,1W
3836	4822 117 10833	10K 1% 0,1W	3890	4822 117 10837	100K 1% 0,1W
3837	4822 051 20471	470R 5% 0,1W	3891	4822 117 10837	100K 1% 0,1W
3838	4822 051 20471	470R 5% 0,1W	3892	4822 117 13632	100K 1% 0,62W
3839	4822 051 30471	470R 5% 0,1W	3893	4822 117 13632	100K 1% 0,62W
3840	4822 051 30471	470R 5% 0,1W	3894	4822 117 10833	10K 1% 0,1W
3841	4822 051 30472	4K7 5% 0,1W	3895	4822 117 10833	10K 1% 0,1W
3842	4822 051 10102	1K 2% 0,25W	3896	4822 117 10833	10K 1% 0,1W
3843	4822 051 30102	1K 5% 0,1W	3897	4822 117 10833	10K 1% 0,1W
3844	4822 051 30101	100R 5% 0,1W	3898	4822 117 10833	10K 1% 0,1W
3845	2120 108 92668	3R3 5% 0,1W	3899	4822 117 10833	10K 1% 0,1W
3846	4822 051 20223	22K 5% 0,1W	3900	4822 051 30223	22K 5% 0,1W
3847	4822 117 12864	82K 5% 0,6W	4801	4822 051 30008	0R Jumper 0603
3848	4822 117 10834	47K 1% 0,1W	4802	4822 051 20008	0R Jumper 0805
3849	4822 051 30563	56K 5% 0,1W	4807	4822 051 20008	0R Jumper 0805
3850	4822 117 12902	8K2 1% 0,1W	4808	4822 051 30008	0R Jumper 0603
3851	4822 051 30563	56K 5% 0,1W	4809	4822 051 20008	0R Jumper 0805
3852	4822 117 10834	47K 1% 0,1W	4810	4822 051 20008	0R Jumper 0805
3853	4822 051 30153	15K 5% 0,1W	4812	4822 051 20008	0R Jumper 0805
3854	4822 117 12902	8K2 1% 0,1W	4813	4822 051 20008	0R Jumper 0805
3855	4822 116 40227	4R6 25% 12V	4814	4822 051 20008	0R Jumper 0805
3856	4822 051 20683	68K 5% 0,1W	4815	4822 051 20008	0R Jumper 0805
3857	4822 051 20154	150K 5% 0,1W	4823	4822 051 20008	0R Jumper 0805
3858	4822 051 30392	3K9 5% 0,1W	4824	4822 051 20008	0R Jumper 0805
3859	4822 117 10834	47K 1% 0,1W	4828	4822 051 20008	0R Jumper 0805
3860	4822 051 30102	1K 5% 0,1W	4831	4822 051 20008	0R Jumper 0805
3861	4822 117 10834	47K 1% 0,1W	4832	4822 051 20008	0R Jumper 0805
3862	4822 051 10102	1K 2% 0,25W	4838	4822 051 20008	0R Jumper 0805
3863	4822 052 10338	3R3 5% 0,33W	4845	4822 051 20008	0R Jumper 0805
3864	4822 117 10833	10K 1% 0,1W	4847	4822 051 20008	0R Jumper 0805
3865	4822 051 30102	1K 5% 0,1W	4848	4822 051 20008	0R Jumper 0805
3867	4822 051 20223	22K 5% 0,1W	4850	4822 051 20008	0R Jumper 0805
3868	4822 051 30103	10K 5% 0,1W	4853	4822 051 20008	0R Jumper 0805
3869	4822 051 30103	10K 5% 0,1W	4856	4822 051 30008	0R Jumper 0603
3871	4822 051 30471	470R 5% 0,1W	4857	4822 051 20008	0R Jumper 0805
3872	4822 117 12925	47K 1% 0,1W	4859	4822 051 20008	0R Jumper 0805
3873	4822 051 30223	22K 5% 0,1W	4863	4822 051 20008	0R Jumper 0805
3874	4822 051 30223	22K 5% 0,1W	4865	4822 051 20008	0R Jumper 0805
3875	4822 051 30103	10K 5% 0,1W	4866	4822 051 20008	0R Jumper 0805
3876	4822 051 30103	10K 5% 0,1W	4872	4822 051 20008	0R Jumper 0805

ELECTRICAL PARTSLIST - CD99/DA11 BOARD**RESISTORS**

4877	4822 051 30008	0R Jumper 0603
4881	4822 051 20008	0R Jumper 0805
4884	4822 051 20008	0R Jumper 0805
4885	4822 051 30008	0R Jumper 0603
4886	4822 051 20008	0R Jumper 0805
4888	4822 051 20008	0R Jumper 0805
4889	4822 051 20008	0R Jumper 0805

COILS AND FILTERS

1810	4822 242 73557	CST8,46MTW-TF01
5803	4822 157 11231	1µH 5%

DIODES

6877	9322 129 34685	BZM55-C3V9
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TRANSISTORS & IC

7800	9352 690 17557	SAA7325H/T/M2B/WD
7802	5322 209 11517	PC74HCU04T
7803	5322 130 60123	BC807-40
7804	5322 209 82941	LM358D
7807	5322 130 42755	BC847C
7808	4822 209 32852	TDA7073A/N2
7809	4822 209 32852	TDA7073A/N2
7810	4822 209 33165	TDA1308T/N1
7875	4822 130 60511	BC847B

ELECTRICAL PARTSLIST - COMBI BOARD**- MISCELLANEOUS -**

6	4822 492 71733	CLAMP
7	4822 255 40179	CLIP
9	3140 114 29180	LCD HOLDER
1330	2422 026 05099	CONNECTOR PHONE 1P
1331	4822 267 31176	CONNECTOR
1400	4822 276 13775	SWITCH-PUSH
1401	4822 276 13775	SWITCH-PUSH
1402	4822 276 13775	SWITCH-PUSH
1403	4822 276 13775	SWITCH-PUSH
1404	4822 276 13775	SWITCH-PUSH
1405	4822 276 13775	SWITCH-PUSH
1406	4822 276 13775	SWITCH-PUSH
1407	4822 276 13775	SWITCH-PUSH
1408	4822 276 13775	SWITCH-PUSH
1409	4822 276 13775	SWITCH-PUSH
1410	4822 276 13775	SWITCH-PUSH
1411	4822 276 13775	SWITCH-PUSH
1412	4822 276 13775	SWITCH-PUSH
1413	4822 276 13775	SWITCH-PUSH
1414	4822 276 13775	SWITCH-PUSH
1415	2422 129 16349	ROT ENCODER 24P
1416	2422 025 14546	CONNECTOR FFC 16P
1418	4822 265 11207	CONNECTOR SOCKET 6P
1420	4822 267 10956	CONNECTOR 7P
1425	3140 110 51000	LCD PANEL
1550	4822 265 20553	CONNECTOR
1551	4822 267 10953	CONNECTOR 7P
1554	4822 267 10731	CONNECTOR
1555	4822 265 11515	CONNECTOR 8P
1556	2422 025 14526	CONNECTOR FFC 16P

- CAPACITORS -

2330	4822 124 40769	4,7µF 20% 100V
2331	2238 786 19852	150nF +80-20% Y5V 16V
2332	2238 786 19852	150nF +80-20% Y5V 16V
2337	4822 121 42408	220nF 5% 63V
2338	4822 121 42408	220nF 5% 63V
2339	4822 121 42408	220nF 5% 63V
2340	4822 121 42408	220nF 5% 63V
2341	4822 124 40433	47µF 20% 25V
2342	4822 124 40433	47µF 20% 25V
2343	4822 122 33197	1nF 10% 50V
2344	4822 122 33197	1nF 10% 50V
2345	4822 126 14494	22nF 10% X7R 25V
2346	4822 126 14494	22nF 10% X7R 25V
2347	4822 124 40433	47µF 20% 25V
2348	4822 124 40433	47µF 20% 25V
2349	4822 124 40207	100µF 20% 25V
2350	4822 124 40207	100µF 20% 25V
2351	4822 124 40769	4,7µF 20% 100V
2352	4822 124 40433	47µF 20% 25V
2353	5322 126 11583	10nF 10% X7R 50V
2354	5322 126 11583	10nF 10% X7R 50V
2400	5322 126 11583	10nF 10% X7R 50V
2401	5322 126 11583	10nF 10% X7R 50V
2402	4822 124 23432	100µF 20% 10V
2403	2238 586 59812	100nF +80-20% Y5V 50V
2404	4822 124 23432	100µF 20% 10V
2405	5322 126 11583	10nF 10% X7R 50V
2406	5322 126 11583	10nF 10% X7R 50V
2407	2238 586 59812	100nF +80-20% Y5V 50V
2408	2238 586 59812	100nF +80-20% Y5V 50V
2409	5322 126 11583	10nF 10% X7R 50V
2410	5322 126 11583	10nF 10% X7R 50V
2411	4822 122 33752	15pF 5% NP0 50V
2412	4822 122 33752	15pF 5% NP0 50V
2413	4822 126 11785	47pF 5% NP0 50V
2414	5322 126 11583	10nF 10% X7R 50V
2415	4822 126 11669	27pF
2416	4822 126 11669	27pF
2417	4822 124 40433	47µF 20% 25V
2418	5322 126 11578	1nF 10% X7R 50V
2419	2238 586 59812	100nF +80-20% Y5V 50V
2420	5322 126 11583	10nF 10% X7R 50V
2421	5322 126 11583	10nF 10% X7R 50V
2422	2020 552 94427	100pF 5% NP0 50V
2423	2020 552 94427	100pF 5% NP0 50V
2424	2238 586 59812	100nF +80-20% Y5V 50V
2425	2222 867 15339	33pF 5% NP0 50V
2426	4822 122 33761	22pF 5% NP0 50V
2427	4822 126 14249	560pF 10% X7R 50V
2428	4822 124 22652	2,2µF 20% 50V

ELECTRICAL PARTSLIST - COMBI BOARD**- CAPACITORS -**

2429 4822 126 12787 330pF 10% Y5V 50V
 2430 5322 126 11578 1nF 10% X7R 50V
 2431 4822 126 13193 4,7nF 10% X7R 63V
 2432 2020 552 94427 100pF 5% NP0 50V
 2433 4822 126 13881 470pF 5% 50V

2434 2020 552 94427 100pF 5% NP0 50V
 2435 4822 126 13881 470pF 5% 50V
 2436 4822 126 13881 470pF 5% 50V
 2437 4822 126 13881 470pF 5% 50V
 2438 4822 126 13881 470pF 5% 50V

2439 4822 126 13881 470pF 5% 50V
 2440 4822 126 14238 2,2nF X7R 50V
 2441 5322 126 11583 10nF 10% X7R 50V
 2442 4822 126 13883 220pF 5% 50V
 2443 4822 126 13883 220pF 5% 50V

2444 4822 126 13883 220pF 5% 50V
 2445 4822 126 13883 220pF 5% 50V
 2446 5322 126 11583 10nF 10% X7R 50V
 2447 4822 126 13881 470pF 5% 50V
 2448 4822 126 13881 470pF 5% 50V

2449 4822 126 13881 470pF 5% 50V
 2450 4822 126 13881 470pF 5% 50V
 2451 4822 126 13881 470pF 5% 50V
 2500 4822 124 41584 100µF 20% 10V
 2501 4822 124 40196 220µF 20% 16V

2502 4822 124 40248 10µF 20% 63V
 2503 4822 126 14494 22nF 10% X7R 25V
 2505 2020 552 94427 100pF 5% NP0 50V
 2506 2020 552 94427 100pF 5% NP0 50V
 2507 2020 552 94427 100pF 5% NP0 50V

2508 2020 552 94427 100pF 5% NP0 50V
 2509 4822 122 33761 22pF 5% NP0 50V
 2510 4822 122 33761 22pF 5% NP0 50V
 2511 4822 126 13879 220nF +80-20% 16V
 2512 4822 126 13879 220nF +80-20% 16V

2513 4822 126 11785 47pF 5% NP0 50V
 2514 4822 126 11785 47pF 5% NP0 50V
 2515 5322 126 11583 10nF 10% X7R 50V
 2516 5322 126 11583 10nF 10% X7R 50V
 2517 4822 126 14247 1,5nF X7R 50V

2518 4822 126 14247 1,5nF X7R 50V
 2519 4822 126 13883 220pF 5% 50V
 2520 4822 126 13883 220pF 5% 50V
 2521 4822 126 14247 1,5nF X7R 50V
 2522 4822 126 14247 1,5nF X7R 50V

2523 3198 016 36810 680pF NP0 25V
 2524 3198 016 36810 680pF NP0 25V
 2525 4822 126 11785 47pF 5% NP0 50V
 2526 4822 126 11785 47pF 5% NP0 50V
 2527 5322 126 11583 10nF 10% X7R 50V

- CAPACITORS -

2528 5322 126 11583 10nF 10% X7R 50V
 2529 2238 586 59812 100nF +80-20% Y5V 50V
 2530 2238 586 59812 100nF +80-20% Y5V 50V
 2531 2238 586 59812 100nF +80-20% Y5V 50V
 2532 2238 586 59812 100nF +80-20% Y5V 50V

2533 3198 017 34730 47nF X7R 16V
 2534 3198 017 34730 47nF X7R 16V
 2535 2238 586 59812 100nF +80-20% Y5V 50V
 2536 2238 586 59812 100nF +80-20% Y5V 50V
 2550 4822 126 11585 22nF+80-20% Y5V 25V

2551 4822 126 14238 2,2nF X7R 50V
 2552 4822 126 14238 2,2nF X7R 50V
 2553 4822 126 14494 22nF 10% X7R 25V
 2554 4822 124 40196 220µF 20% 16V
 2555 4822 124 22652 2,2µF 20% 50V

2557 3198 017 44740 470nF Y5V 10V
 2558 4822 126 13883 220pF 5% 50V
 2559 4822 126 13883 220pF 5% 50V
 2560 4822 126 13883 220pF 5% 50V
 2561 4822 124 81151 22µF 50V

2563 4822 124 41407 0,47µF 20% 63V
 2564 4822 124 41407 0,47µF 20% 63V
 2565 2020 552 94427 100pF 5% NP0 50V
 2566 2020 552 94427 100pF 5% NP0 50V
 2567 4822 124 22652 2,2µF 20% 50V

2568 4822 124 22652 2,2µF 20% 50V
 2569 4822 124 21913 1µF 20% 63V
 2570 4822 124 21913 1µF 20% 63V
 2571 3198 017 44740 470nF Y5V 10V
 2573 2238 586 59812 100nF +80-20% Y5V 50V

- RESISTORS -

3250 4822 051 20471 470R 5% 0,1W
 3251 4822 051 30222 2,2K 5% 0,062W
 3252 4822 051 20472 4,7K 5% 0,1W
 3253 4822 051 20472 4,7K 5% 0,1W
 3254 4822 117 11449 2,2K 5% 0,1W

3255 4822 050 11002 1K 1% 0,4W
 3256 4822 050 11002 1K 1% 0,4W
 3257 4822 050 11002 1K 1% 0,4W
 3258 4822 116 83884 47K 5% 0,5W
 3259 4822 051 30331 330R 5% 0,062W

3260 4822 117 12891 220K 1% ERJ3E
 3261 4822 117 12864 82K 5% 0,6W
 3262 4822 051 10102 1K 2% 0,25W
 3263 4822 051 30472 4,7K 5% 0,062W
 3264 4822 051 10102 1K 2% 0,25W

ELECTRICAL PARTSLIST - COMBI BOARD**- RESISTORS -**

3266	4822 117 12925	47K 1% 0,063W
3267	4822 117 11449	2,2K 5% 0,1W
3268	4822 117 11449	2,2K 5% 0,1W
3269	4822 051 30223	22K 5% 0,062W
3271	4822 050 24708	4,7R 1% 0,6W
3272	4822 050 24708	4,7R 1% 0,6W
3273	4822 050 24708	4,7R 1% 0,6W
3274	4822 051 20391	390R 5% 0,1W
3275	4822 116 83883	470R 5% 0,5W
3276	4822 051 30222	2,2K 5% 0,062W
3277	4822 051 30222	2,2K 5% 0,062W
3278	4822 117 12925	47K 1% 0,063W
3279	4822 051 30102	1K 5% 0,062W
3280	4822 116 52257	22K 5% 0,5W
3281	4822 117 11449	2,2K 5% 0,1W
3282	4822 117 11449	2,2K 5% 0,1W
3283	4822 117 11449	2,2K 5% 0,1W
3284	4822 117 11449	2,2K 5% 0,1W
3330	4822 116 52269	3,3K 5% 0,5W
3331	4822 050 21003	10K 1% 0,6W
3332	4822 050 21003	10K 1% 0,6W
3333	4822 051 30682	6,8K 5% 0,062W
3334	4822 051 30682	6,8K 5% 0,062W
3335	4822 051 20228	2,2R 5% 0,1W
3336	4822 051 20228	2,2R 5% 0,1W
3337	4822 051 20228	2,2R 5% 0,1W
3338	4822 051 20228	2,2R 5% 0,1W
3339	4822 051 20121	120R 5% 0,1W
3340	4822 051 20121	120R 5% 0,1W
3341	4822 116 52226	560R 5% 0,5W
3342	4822 116 52226	560R 5% 0,5W
3343	4822 051 30103	10K 5% 0,062W
3344	4822 051 30103	10K 5% 0,062W
3345	4822 051 30103	10K 5% 0,062W
3346	4822 051 30103	10K 5% 0,062W
3347	4822 051 30223	22K 5% 0,062W
3348	4822 051 30223	22K 5% 0,062W
3349	4822 051 30223	22K 5% 0,062W
3350	4822 117 12925	47K 1% 0,063W
3351	4822 051 10102	1K 2% 0,25W
3352	4822 051 10102	1K 2% 0,25W
3353	4822 051 20479	47R 5% 0,1W
3358	4822 051 30472	4,7K 5% 0,062W
3359	4822 051 30682	6,8K 5% 0,062W
3360	4822 117 13632	100K 1% 0,62W
3361	4822 051 30101	100R 5% 0,062W
3400	4822 116 52176	10R 5% 0,5W
3401	4822 116 52182	15R 5% 0,5W
3402	4822 116 52175	100R 5% 0,5W
3403	4822 051 30682	6,8K 5% 0,062W

- RESISTORS -

3404	4822 051 30332	3,3K 5% 0,062W
3405	4822 050 11002	1K 1% 0,4W
3406	4822 117 13632	100K 1% 0,62W
3407	4822 051 30102	1K 5% 0,062W
3408	4822 051 30474	470K 5% 0,062W
3409	4822 051 30103	10K 5% 0,062W
3410	4822 116 52175	100R 5% 0,5W
3411	4822 117 13632	100K 1% 0,62W
3412	4822 051 30103	10K 5% 0,062W
3413	4822 051 30102	1K 5% 0,062W
3414	4822 051 30333	33K 5% 0,062W
3415	4822 051 30153	15K 5% 0,062W
3416	4822 116 83872	220R 5% 0,5W
3417	4822 051 30153	15K 5% 0,062W
3418	4822 051 30152	1,5K 5% 0,062W
3419	4822 051 30152	1,5K 5% 0,062W
3420	4822 050 21003	10K 1% 0,6W
3421	4822 051 30562	5,6K 5% 0,063W
3422	4822 116 83883	470R 5% 0,5W
3423	4822 050 11002	1K 1% 0,4W
3424	4822 051 30152	1,5K 5% 0,062W
3425	4822 051 30222	2,2K 5% 0,062W
3426	4822 051 30332	3,3K 5% 0,062W
3427	4822 051 30562	5,6K 5% 0,063W
3428	4822 051 30103	10K 5% 0,062W
3429	4822 050 21003	10K 1% 0,6W
3430	4822 051 30562	5,6K 5% 0,063W
3431	4822 051 30471	470R 5% 0,062W
3432	4822 051 30102	1K 5% 0,062W
3433	4822 051 30152	1,5K 5% 0,062W
3434	4822 051 30222	2,2K 5% 0,062W
3435	4822 051 30332	3,3K 5% 0,062W
3436	4822 051 30562	5,6K 5% 0,063W
3437	4822 051 30223	22K 5% 0,062W
3438	4822 051 30223	22K 5% 0,062W
3439	4822 051 30102	1K 5% 0,062W
3440	4822 051 30102	1K 5% 0,062W
3441	4822 051 30102	1K 5% 0,062W
3442	4822 051 30333	33K 5% 0,062W
3443	4822 050 23303	33K 1% 0,6W
3444	4822 116 52175	100R 5% 0,5W
3445	4822 051 30222	2,2K 5% 0,062W
3446	4822 117 12891	220K 1% ERJ3E
3447	4822 051 30103	10K 5% 0,062W
3448	4822 116 52243	1,5K 5% 0,5W
3449	4822 116 52257	22K 5% 0,5W
3450	4822 051 30103	10K 5% 0,062W
3451	4822 051 30471	470R 5% 0,062W
3452	4822 051 30103	10K 5% 0,062W
3453	4822 051 30102	1K 5% 0,062W

ELECTRICAL PARTSLIST - COMBI BOARD**- RESISTORS -**

3454 4822 050 11002 1K 1% 0,4W
 3455 4822 051 30102 1K 5% 0,062W
 3456 4822 050 11002 1K 1% 0,4W
 3457 4822 051 30103 10K 5% 0,062W
 3458 4822 051 30102 1K 5% 0,062W

3459 4822 116 83872 220R 5% 0,5W
 3460 4822 051 30471 470R 5% 0,062W
 3461 4822 116 52283 4,7K 5% 0,5W
 3462 4822 051 30472 4,7K 5% 0,062W
 3463 4822 116 52283 4,7K 5% 0,5W

3464 4822 051 30472 4,7K 5% 0,062W
 3465 4822 116 52283 4,7K 5% 0,5W
 3466 4822 051 30472 4,7K 5% 0,062W
 3467 4822 116 52256 2,2K 5% 0,5W
 3468 4822 051 30222 2,2K 5% 0,062W

3469 4822 116 83883 470R 5% 0,5W
 3470 4822 051 30272 2,7K 5% 0,062W
 3471 4822 050 23303 33K 1% 0,6W
 3472 4822 051 30474 470K 5% 0,062W
 3473 4822 051 30472 4,7K 5% 0,062W

3474 4822 050 11002 1K 1% 0,4W
 3475 4822 051 30331 330R 5% 0,062W
 3476 4822 116 83883 470R 5% 0,5W
 3477 4822 051 30471 470R 5% 0,062W
 3478 4822 116 83883 470R 5% 0,5W

3479 4822 051 30471 470R 5% 0,062W
 3480 4822 050 11002 1K 1% 0,4W
 3481 4822 051 30471 470R 5% 0,062W
 3482 4822 050 11002 1K 1% 0,4W
 3483 4822 051 30153 15K 5% 0,062W

3484 4822 051 30103 10K 5% 0,062W
 3485 4822 116 52276 3,9K 5% 0,5W
 3486 4822 051 30101 100R 5% 0,062W
 3487 4822 116 52276 3,9K 5% 0,5W
 3488 4822 051 30101 100R 5% 0,062W

3489 4822 050 11002 1K 1% 0,4W
 3490 4822 051 30102 1K 5% 0,062W
 3491 4822 050 11002 1K 1% 0,4W
 3492 4822 051 30102 1K 5% 0,062W
 3493 4822 050 11002 1K 1% 0,4W

3494 4822 051 30102 1K 5% 0,062W
 3496 4822 051 30154 150K 5% 0,062W
 3497 4822 051 30103 10K 5% 0,062W
 3500 4822 117 12968 820R 5% 0,62W
 3501 4822 051 30471 470R 5% 0,062W

3502 4822 116 52256 2,2K 5% 0,5W
 3503 4822 051 30471 470R 5% 0,062W
 3505 4822 051 30333 33K 5% 0,062W
 3506 4822 051 30333 33K 5% 0,062W
 3507 4822 117 12971 15R 5% 0,62W

- RESISTORS -

3508 4822 117 12971 15R 5% 0,62W
 3509 4822 051 30333 33K 5% 0,062W
 3510 4822 051 30333 33K 5% 0,062W
 3511 4822 117 13632 100K 1% 0,62W
 3512 4822 117 13632 100K 1% 0,62W

3513 4822 051 30153 15K 5% 0,062W
 3514 4822 051 30153 15K 5% 0,062W
 3515 4822 051 30333 33K 5% 0,062W
 3516 4822 051 30333 33K 5% 0,062W
 3517 4822 117 13632 100K 1% 0,62W

3518 4822 117 13632 100K 1% 0,62W
 3519 4822 117 12891 220K 1% ERJ3E
 3520 4822 117 12891 220K 1% ERJ3E
 3521 4822 050 23303 33K 1% 0,6W
 3522 4822 050 23303 33K 1% 0,6W

3523 4822 050 23303 33K 1% 0,6W
 3524 4822 050 23303 33K 1% 0,6W
 3525 4822 117 12891 220K 1% ERJ3E
 3526 4822 117 12891 220K 1% ERJ3E
 3527 4822 117 12891 220K 1% ERJ3E

3528 4822 117 12891 220K 1% ERJ3E
 3529 4822 116 52264 27K 5% 0,5W
 3530 4822 116 52264 27K 5% 0,5W
 3531 4822 116 52264 27K 5% 0,5W
 3532 4822 116 52264 27K 5% 0,5W

3533 4822 051 30333 33K 5% 0,062W
 3534 4822 051 30333 33K 5% 0,062W
 3535 4822 117 13632 100K 1% 0,62W
 3536 4822 117 13632 100K 1% 0,62W
 3537 4822 117 12891 220K 1% ERJ3E

3538 4822 117 12891 220K 1% ERJ3E
 3539 4822 051 30223 22K 5% 0,062W
 3540 4822 051 30223 22K 5% 0,062W
 3541 4822 051 30154 150K 5% 0,062W
 3542 4822 051 30154 150K 5% 0,062W

3543 4822 117 12864 82K 5% 0,6W
 3544 4822 117 12864 82K 5% 0,6W
 3545 4822 117 12902 8,2K 1% 0,063W
 3546 4822 117 12902 8,2K 1% 0,063W
 3547 4822 051 30154 150K 5% 0,062W

3548 4822 051 30154 150K 5% 0,062W
 3551 4822 051 30333 33K 5% 0,062W
 3552 4822 051 30333 33K 5% 0,062W
 3553 4822 117 12902 8,2K 1% 0,063W
 3554 4822 117 12902 8,2K 1% 0,063W

3555 4822 051 30682 6,8K 5% 0,062W
 3556 4822 051 30682 6,8K 5% 0,062W
 3557 4822 051 30183 18K 5% 0,062W
 3558 4822 051 30183 18K 5% 0,062W
 3559 4822 051 30272 2,7K 5% 0,062W

ELECTRICAL PARTSLIST - COMBI BOARD**- RESISTORS -**

3560 4822 051 30272 2,7K 5% 0,062W
 3561 4822 050 21003 10K 1% 0,6W
 3562 4822 050 21003 10K 1% 0,6W
 3563 4822 051 30101 100R 5% 0,062W
 3565 4822 051 20229 22R 5% 0,1W

3566 4822 051 20229 22R 5% 0,1W
 3568 4822 051 10102 1K 2% 0,25W
 3572 4822 051 30103 10K 5% 0,062W
 3573 4822 050 11002 1K 1% 0,4W
 3574 4822 117 12925 47K 1% 0,063W

3575 4822 051 30153 15K 5% 0,062W
 3576 4822 051 30153 15K 5% 0,062W
 3577 4822 051 30471 470R 5% 0,062W
 3578 4822 051 30471 470R 5% 0,062W
 3579 4822 051 30154 150K 5% 0,062W

3580 4822 051 30154 150K 5% 0,062W
 3581 4822 051 30272 2,7K 5% 0,062W
 3582 4822 051 30272 2,7K 5% 0,062W
 3583 4822 051 30472 4,7K 5% 0,062W
 3584 4822 051 30472 4,7K 5% 0,062W

3585 4822 051 30222 2,2K 5% 0,062W
 3586 4822 051 30222 2,2K 5% 0,062W
 3587 4822 051 30392 3,9K 5% 0,063W
 3588 4822 051 30392 3,9K 5% 0,063W
 3589 4822 116 83872 220R 5% 0,5W

3901 4822 051 20121 120R 5% 0,1W
 3902 4822 051 20121 120R 5% 0,1W
 3903 4822 051 20121 120R 5% 0,1W
 3904 4822 051 20121 120R 5% 0,1W
 4260 4822 051 10008 0R 5% 0,25W

4261 4822 051 10008 0R 5% 0,25W
 4262 4822 051 30008 0R JUMPER
 4263 4822 051 10008 0R 5% 0,25W
 4264 4822 051 10008 0R 5% 0,25W
 4265 4822 051 10008 0R 5% 0,25W

4266 4822 051 30008 0R JUMPER
 4333 4822 051 30008 0R JUMPER
 4334 4822 051 30008 0R JUMPER
 4335 4822 051 30008 0R JUMPER
 4401 4822 051 20008 0R JUMPER (0805)

4410 4822 051 10008 0R 5% 0,25W
 4411 4822 051 20008 0R JUMPER (0805)
 4412 4822 051 10008 0R 5% 0,25W
 4413 4822 051 20008 0R JUMPER (0805)
 4414 4822 051 10008 0R 5% 0,25W

4415 4822 051 20008 0R JUMPER (0805)
 4416 4822 051 20008 0R JUMPER (0805)
 4417 4822 051 20008 0R JUMPER (0805)
 4418 4822 051 20008 0R JUMPER (0805)
 4419 4822 051 10008 0R 5% 0,25W

- RESISTORS -

4510 4822 051 10008 0R 5% 0,25W
 4513 4822 051 30008 0R JUMPER
 4560 4822 051 10008 0R 5% 0,25W
 4561 4822 051 30008 0R JUMPER
 4562 4822 051 10008 0R 5% 0,25W

4563 4822 051 10008 0R 5% 0,25W
 4564 4822 051 10008 0R 5% 0,25W
 4565 4822 051 10008 0R 5% 0,25W
 4566 4822 051 30008 0R JUMPER
 4567 4822 051 10008 0R 5% 0,25W

4568 4822 051 30008 0R JUMPER
 4569 4822 051 10008 0R 5% 0,25W
 4570 4822 051 30008 0R JUMPER
 4571 4822 051 10008 0R 5% 0,25W
 4572 4822 051 30008 0R JUMPER

4573 4822 051 10008 0R 5% 0,25W

- COILS & FILTERS -

5331 4822 157 11837 0,36µH 10%
 5332 4822 157 11837 0,36µH 10%
 5333 4822 157 11837 0,36µH 10%
 5334 4822 157 11837 0,36µH 10%
 5400 3198 018 11580 FXDIND 1,5µH 5%

5401 3198 018 11580 FXDIND 1,5µH 5%
 5402 2422 540 98518 8MHZ CSTS*MG03 A
 5403 2422 543 01069 32KHZ768
 5404 4822 242 11033 LN-G102-38 4,332MH
 5550 4822 157 10686 CHOKE COIL 0,47µF

5551 4822 157 10686 CHOKE COIL 0,47µF
 5553 2422 549 44607 EMI100MHZ600RR
 5554 2422 549 44607 EMI100MHZ600RR
 5555 2422 549 44607 EMI100MHZ600RR
 5556 2422 549 44607 EMI100MHZ600RR

5557 2422 549 44607 EMI100MHZ600RR
 5558 2422 549 44607 EMI100MHZ600RR
 5559 2422 549 44607 EMI100MHZ600RR
 5560 2422 549 44607 EMI100MHZ600RR
 5561 2422 549 44607 EMI100MHZ600RR

5562 2422 549 44607 EMI100MHZ600RR
 5563 2422 549 44607 EMI100MHZ600RR
 5564 2422 549 44607 EMI100MHZ600RR

- DIODES -

6254 4822 130 31878 1N4003G
 6255 4822 130 31878 1N4003G
 6256 4822 130 31878 1N4003G
 6257 4822 130 31878 1N4003G
 6258 4822 130 31878 1N4003G

ELECTRICAL PARTSLIST - COMBI BOARD**- DIODES -**

6259	4822 130 31878	1N4003G
6260	4822 130 31878	1N4003G
6261	4822 130 31878	1N4003G
6262	4822 130 31878	1N4003G
6263	4822 130 31878	1N4003G
6264	4822 130 31878	1N4003G
6265	4822 130 31878	1N4003G
6266	4822 130 30621	1N4148
6267	4822 130 30621	1N4148
6268	4822 130 34382	BZX79-B8V2
6271	4822 130 34278	BZX79-B6V8
6272	4822 130 61219	BZX79-B10
6275	3198 010 53380	BZX79-B3V3
6331	4822 130 30621	1N4148
6332	4822 130 30621	1N4148
6333	4822 130 30621	1N4148
6400	4822 130 30621	1N4148
6401	4822 130 30621	1N4148
6500	4822 130 30621	1N4148
6550	3198 010 53380	BZX79-B3V3
6901	9322 033 20682	TLHG4405
6902	9322 033 20682	TLHG4405
6903	9322 033 20682	TLHG4405
6904	9322 033 20682	TLHG4405
6905	9322 033 20682	TLHG4405
6906	9322 033 20682	TLHG4405
6907	9322 033 20682	TLHG4405
6908	9322 033 20682	TLHG4405
6909	9322 033 20682	TLHG4405
6910	9322 033 20682	TLHG4405
6911	9322 033 20682	TLHG4405
6912	9322 033 20682	TLHG4405

- IC & TRANSISTORS -

7333	5322 130 60159	BC846B
7400	3140 110 51200	TMP87CP23F/MC20
7402	5322 130 60159	BC846B
7403	5322 130 60159	BC846B
7404	9322 155 82667	TSOP2236
7405	9322 140 83682	M24C01-BN6
7406	4822 209 31981	SAA6579T
7500	4822 209 10264	HEF4069UBP
7501	4822 130 44568	BC557B
7502	4822 130 44568	BC557B
7503	4822 130 44568	BC557B
7504	4822 130 44568	BC557B
7505	5322 130 60159	BC846B
7506	5322 130 60159	BC846B
7507	5322 130 60159	BC846B
7508	5322 130 60159	BC846B
7509	5322 130 60159	BC846B
7510	5322 130 60159	BC846B
7511	5322 130 60159	BC846B
7512	5322 130 60159	BC846B
7513	5322 130 60159	BC846B
7514	5322 130 60159	BC846B
7550	4822 130 42804	BC817-25
7551	4822 209 10263	HEF4052BP
7552	5322 209 10421	HEF4094BP
7553	4822 130 41327	BC327-40
7555	5322 130 60159	BC846B
7556	5322 130 60159	BC846B

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

- IC & TRANSISTORS -

7250	9322 139 24687	BDW94CFP
7251	5322 130 60159	BC846B
7252	5322 130 60159	BC846B
7253	5322 130 44647	BC368
7254	5322 130 44593	BC369
7255	5322 130 60159	BC846B
7256	4822 130 41246	BC327-25
7257	4822 130 41246	BC327-25
7258	4822 130 41246	BC327-25
7259	5322 130 60159	BC846B
7260	5322 130 60845	BC807-25
7261	5322 130 60159	BC846B
7330	9322 133 18682	AN7125P
7331	4822 130 60373	BC856B
7332	4822 130 60373	BC856B