

Service
Service
Service



Service Manual



TABLE OF CONTENTS

	Page
Location of PC Boards	1-2
Versions Variation & Package	1-2
Specifications	1-3
Measurement Setup	1-4
Service Aids	1-5
ESD & Safety Instruction	1-6
Pb(Lead) Free Solder	1-7
Setting Procedure & Repair Instructions	2
Disassembly Instructions & Service positions	3
Block & Wiring Diagram	4
Control & Vol & Phone Board.....	5
Main Board	6
Power Board	7
Exploded View	8

© Copyright 2007 Philips Consumer Electronics B.V. Eindhoven, The Netherlands
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise without the prior permission of Philips.

Published by HY-ET0619 Service Audio Printed in The Netherlands Subject to modification



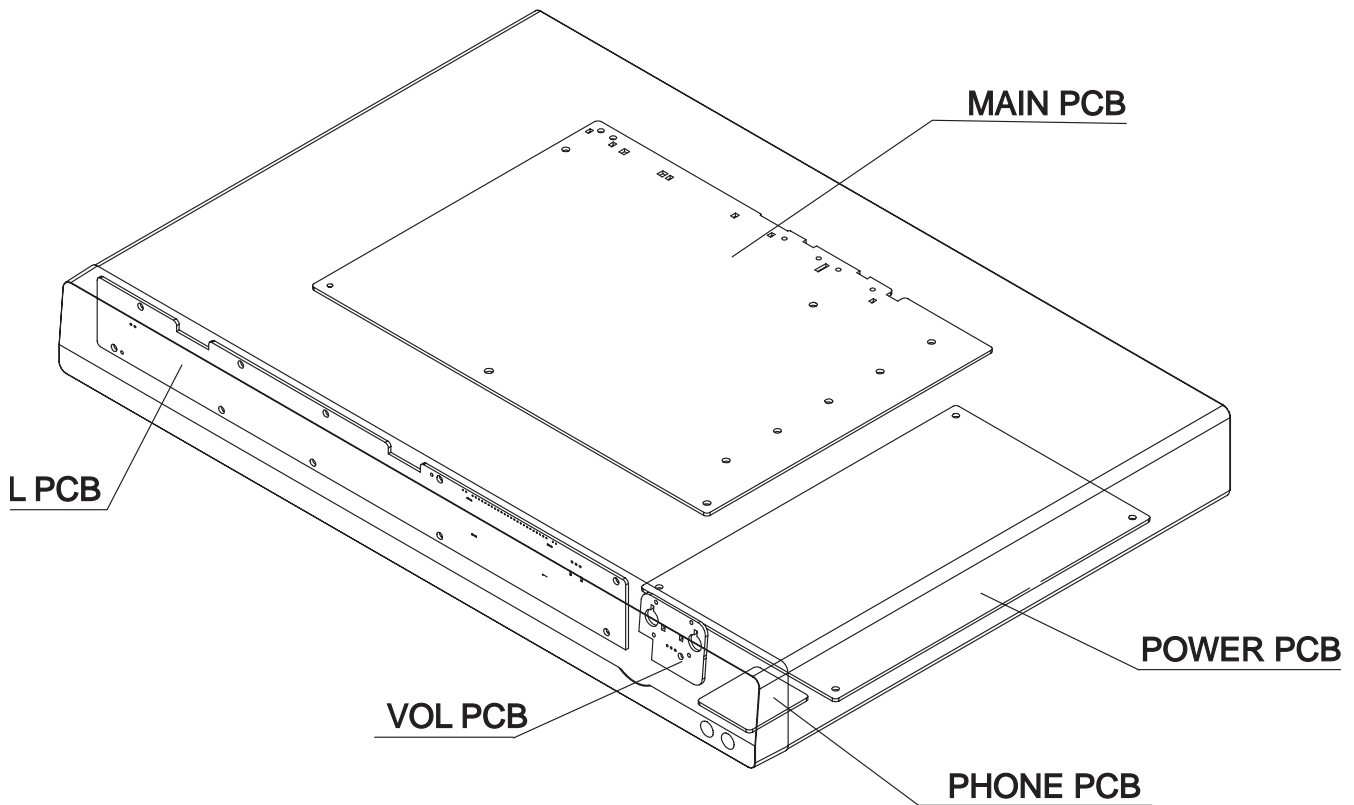
GB 3139 785 32670

Version 1.0



PHILIPS

LOCATION OF PCB BOARDS



VERSION VARIATION:

Type/Version	HTR5205
Feature & Board in used	/98
Main PCB (Power Output 600W)	X
Power Voltage (120/230V)	X
Power cord(detachable)	X

Specifications

AMPLIFIER

Total MAX Output Power 600W
 Home Theater Mode: 75 W x 2
 Front: / Channel
 Centre: 150 W / Channel
 Surround: 75 W x / Channel
 Subwoofer: 150 W / Channel
 Frequency Response: 150 Hz – 18 kHz / ± 3 dB
 Signal-to-Noise Ratio: > 60 dB (A-weighted)
 Input Sensitivity:
 – TV In: 500 mV
 – AUX In: 500 mV

Radio

Tuning Range: FM 87.5 – 108 MHz (50 kHz)
 AM/MW 531 – 1602 kHz
 (9 kHz)
 26 dB Quieting
 Sensitivity: FM 22 dBf,
 AM/MW 5000 μ V/m
 Signal-to-Noise Ratio : FM 55 dB,
 AM/MW 40 dB
 Harmonic Distortion: FM Mono 3%
 FM Stereo AM/MW 5%
 Frequency Response: FM 180 Hz – 9 kHz / ± 6 dB
 Stereo Threshold: FM 23.5dB

MAIN UNIT

Power Supply Rating: 110 – 127 V/ 220 – 240 V
 ; 50 Hz
 Power Consumption: 100 W
 Standby Power Consumption: < 1 W
 Dimensions: 435 x 56 x 325 mm
 (w x h x d)
 Weight: 3.2kg

FRONT AND REAR SPEAKERS

System Full range satellite
 Impedance: 4 Ω
 Speaker drivers: 3" full-range speaker,
 Frequency response: 150 Hz – 20 kHz
 Dimensions: 95.6 x 198.3 x 75 mm
 (w x h x d)
 Weight: 0.675 kg /each

Centre speaker

System Full range satellite
 Impedance: 8 Ω
 Speaker drivers: x 2.5" woofer,
 1 x 2" tweeter
 Frequency response: 150Hz – 20 kHz
 Dimensions: 435 x 93.5 x 67 mm
 (w x h x d)
 Weight: 1.45 kg

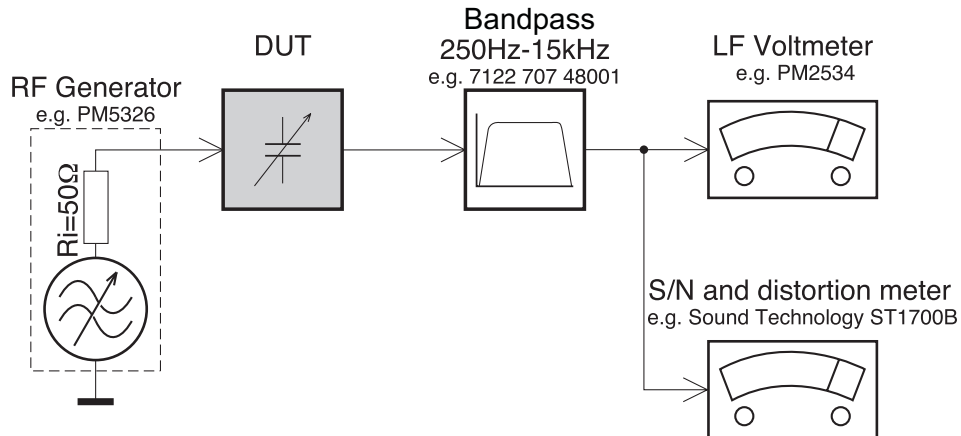
PASSIVE SUBWOOFER

Frequency response: 40 Hz – 150 Hz
 Impedance: 8 Ω
 Subwoofer driver: 8" sub-woofer,
 Dimensions: 159.5 x 355.5 x 370 mm (w x h x d)
 Weight: 4.712kg

Specifications subject to change without prior notice.

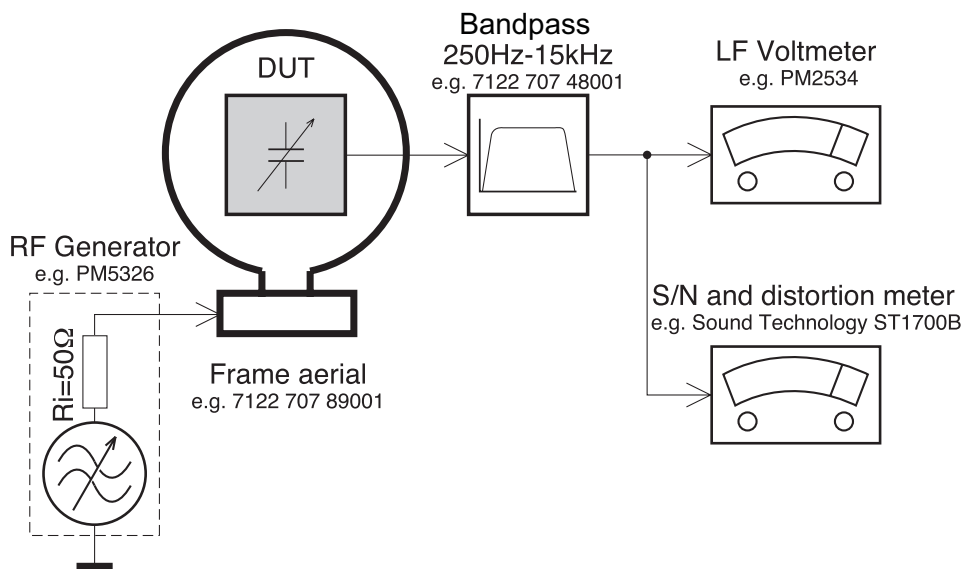
Measurement Setup

Tuner FM



Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilotone (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 250Hz) to eliminate hum (50Hz, 100Hz).

SERVICE AIDS

Service Tools:

Universal Torx driver holder	4822 395 91019
Torx bit T10 150mm	4822 395 50456
Torx driver set T6-T20	4822 395 50145
Torx driver T10 extended	4822 395 50423

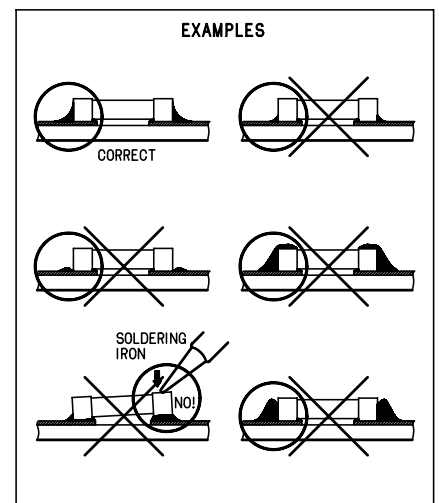
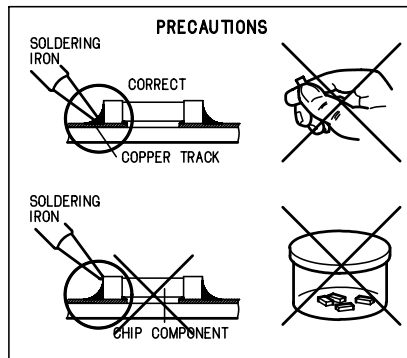
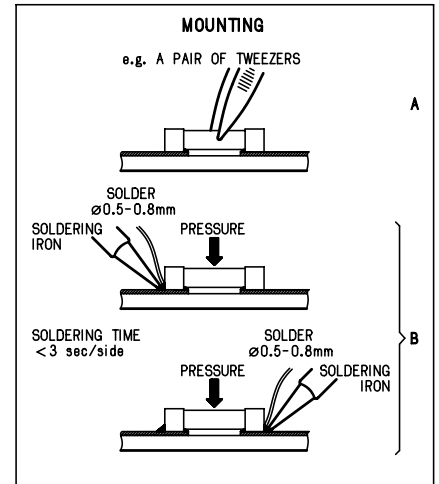
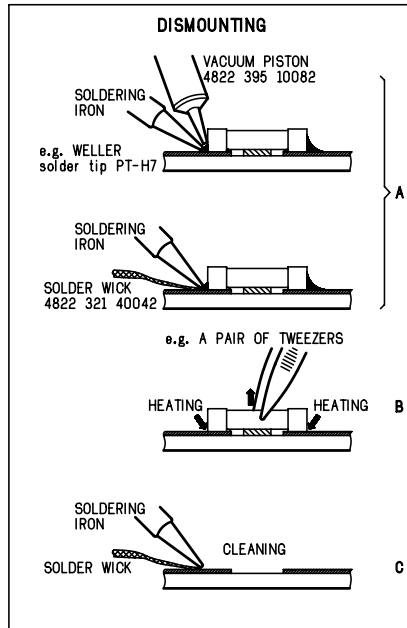
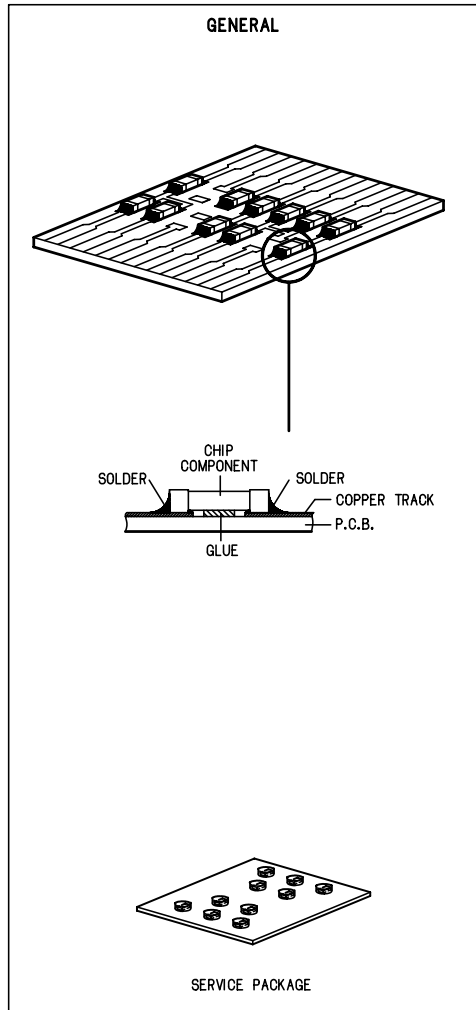
Compact Disc:

SBC426/426A Test disc 5 + 5A	4822 397 30096
SBC442 Audio Burn-in test disc 1kHz	4822 397 30155
SBC429 Audio Signals disc	4822 397 30184
Dolby Pro-logic Test Disc	4822 395 10216

ESD Equipment:

Anti-static table mat - large 1200x650x1.25mm	4822 466 10953
anti-static table mat - small 600x650x1.25mm	4822 466 10958
Anti-static wristband	4822 395 10223
Connectorbox (1MΩ)	4822 395 11307
Extension cable (to connect wristband to conn.box)	4822 320 11305
Connecting cable (to connect table mat to conn.box)	4822 320 11306
Earth cable (to Connect product to mat or box) --	4822 320 11308
Complete kit ESD3 (combining all above products)	4822 320 10671
Wristband tester	4822 344 13999

HANDLING CHIP COMPONENTS



(GB) WARNING

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

(F) ATTENTION

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

(NL)

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

De Veiligheidsonderdelen zijn aangeduid met het symbool Δ .

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisés les pièces de rechange identiques à celles spécifiées.

Less composants de sécurité sont marqués Δ .

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

Sicherheitsbauteile sind durch das Symbol Δ markiert.

(I)

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

Componenty di sicurezza sono marcati con Δ .

(GB)

After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist, The leakage current must not exceed 0.5mA.

ESD**(D) WARNUNG**

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.
Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

(GB) ESD PROTECTION EQUIPMENT

Complete Kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable 4822 310 10671
Wristband tester 4822 344 13999

(NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders 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 hetzelfde potentiaal.

(I) AVVERTIMENTO

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

**(GB) Warning !**

Invisible laser radiation when open.
Avoid direct exposure to beam.

(S) Varning !

Osynlig laserstrålning när apparaten är öppnad och spårren är urkopplad. Betrakta ej strålen.

(SF) Varoitus !

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

(DK) Advarse !

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

(F)

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

Pb(Lead) Free Solder

When soldering, be sure to use the pb free solder.

IDENTIFICATION:

Regardless of special logo (not always indicated)



one must treat all sets from **1 Jan 2005** onwards, according next rules:

Important note: In fact also products of year 2004 must be treated in this way as long as you avoid mixing solder-alloys (leaded/ lead-free). So best to always use SAC305 and the higher temperatures belong to this.

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free solder alloy Philips SAC305 with order code 0622 149 00106. If lead-free solder-paste is required, please contact the manufacturer of your solder-equipment. In general use of solder-paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free solder alloy. The solder tool must be able
 - To reach at least a solder-temperature of 400°C,
 - To stabilize the adjusted temperature at the solder-tip
 - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature around 360°C – 380°C is reached and stabilized at the solder joint. Heating-time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C otherwise wear-out of tips will rise drastically and flux-fluid will be destroyed. To avoid wear-out of tips switch off unused equipment, or reduce heat.
- Mix of lead-free solder alloy / parts with leaded solder alloy / parts is possible but PHILIPS recommends strongly to avoid mixed solder alloy types (leaded and lead-free).
If one cannot avoid or does not know whether product is lead-free, clean carefully the solder-joint from old solder alloy and re-solder with new solder alloy (SAC305).
- Use only original spare-parts listed in the Service-Manuals. Not listed standard-material (commodities) has to be purchased at external companies.
- Special information for BGA-ICs:
 - Always use the 12nc-recognizable soldering temperature profile of the specific BGA (for de-soldering always use the lead-free temperature profile, in case of doubt)
 - Lead free BGA-ICs will be delivered in so-called 'dry-packaging' (sealed pack including a silica gel pack) to protect the IC against moisture. After opening,

dependent of MSL-level seen on indicator-label in the bag, the BGA-IC possibly still has to be baked dry. (MSL=Moisture Sensitivity Level). This will be communicated via AYS-website.

Do not re-use BGAs at all.

- For sets produced before 1.1.2005 (except products of 2004), containing leaded solder-alloy and components, all needed spare-parts will be available till the end of the service-period. For repair of such sets nothing changes.
- On our website www.atyourservice.ce.Philips.com you find more information to:
 - BGA-de-/soldering (+ baking instructions)
 - Heating-profiles of BGAs and other ICs used in Philips-sets

You will find this and more technical information within the "magazine", chapter "workshop news".

For additional questions please contact your local repair-helpdesk.

System , Region Code , etc. Setting Procedure

1)System Reset

- a) switch source to DISC 6CH
- b) press and hold ►► button on front panel
- c) VFD will display reset, then system power down and return to original default setting

2)Version & Region Code Change

- a) switch source to DISC 6CH
- b) press "9" "1" "0" on R/C
- c) press volume + / - key on R/C to choose desired one
5 regions:
EU 12 / UK 05 / APAC 98 / US 98
- d) press OK key to confirm

3)Check on the Software Version

- a) switch source to DISC 6CH
- b) press "1" "5" "9" button on R/C
- c) VFD will display the version

6)Upgrading new software

- a) copy file HTR5200.ROM to root directory of USB disc
- b) switch source to 6CH
- c) insert USB disc to HTR520X USB socket
- d) VFD will display UPGRADE

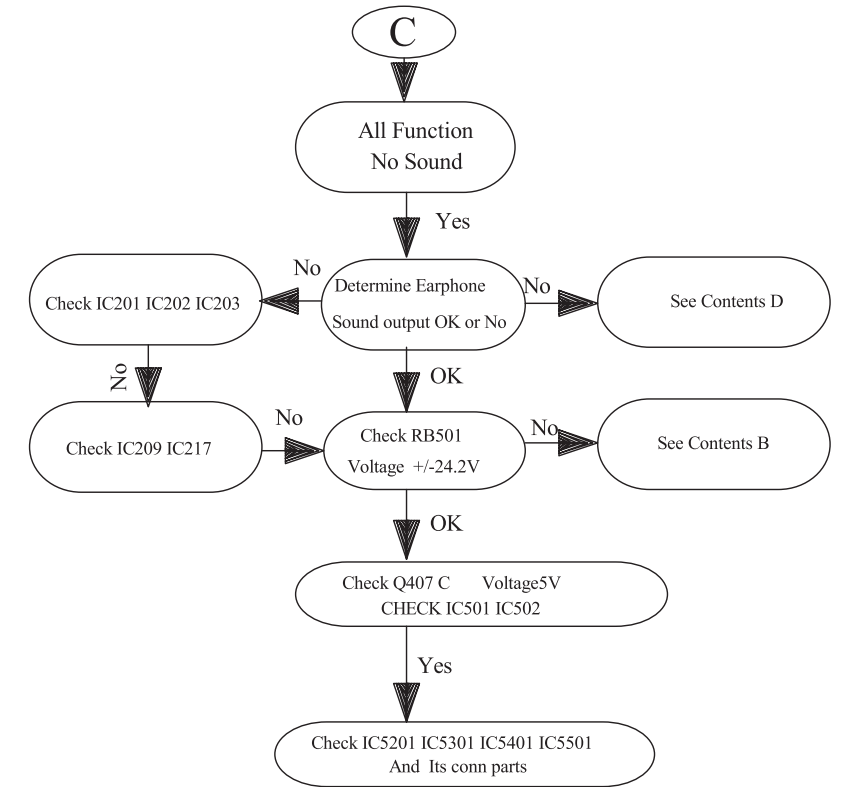
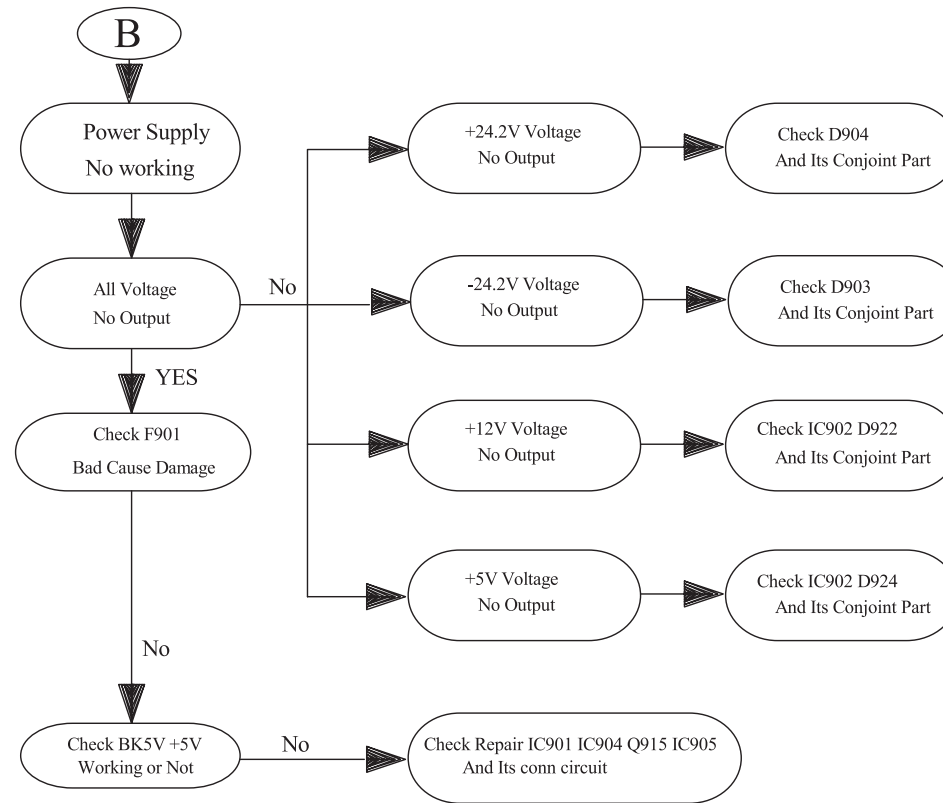
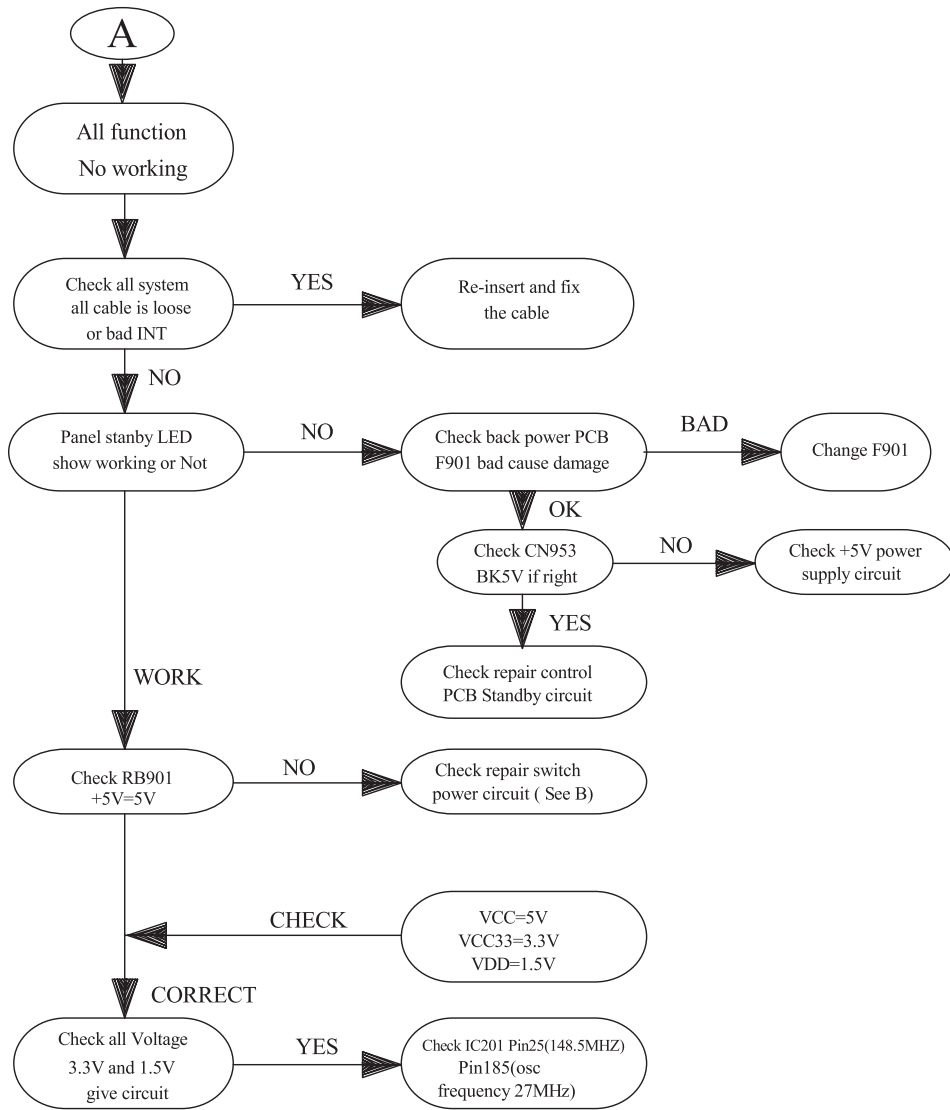
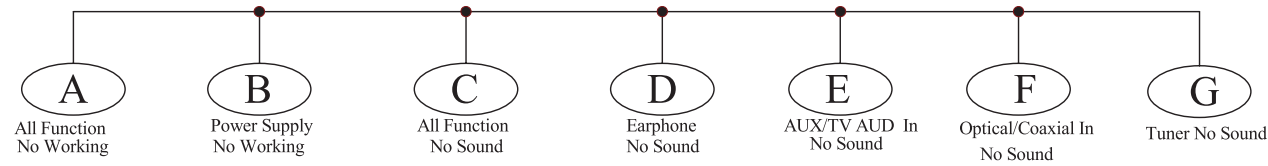
NOTE: during software upgrade ,you must not press any key and power down.

After software upgrading completed ,move USB will display on VFD ,now ,you must power down.

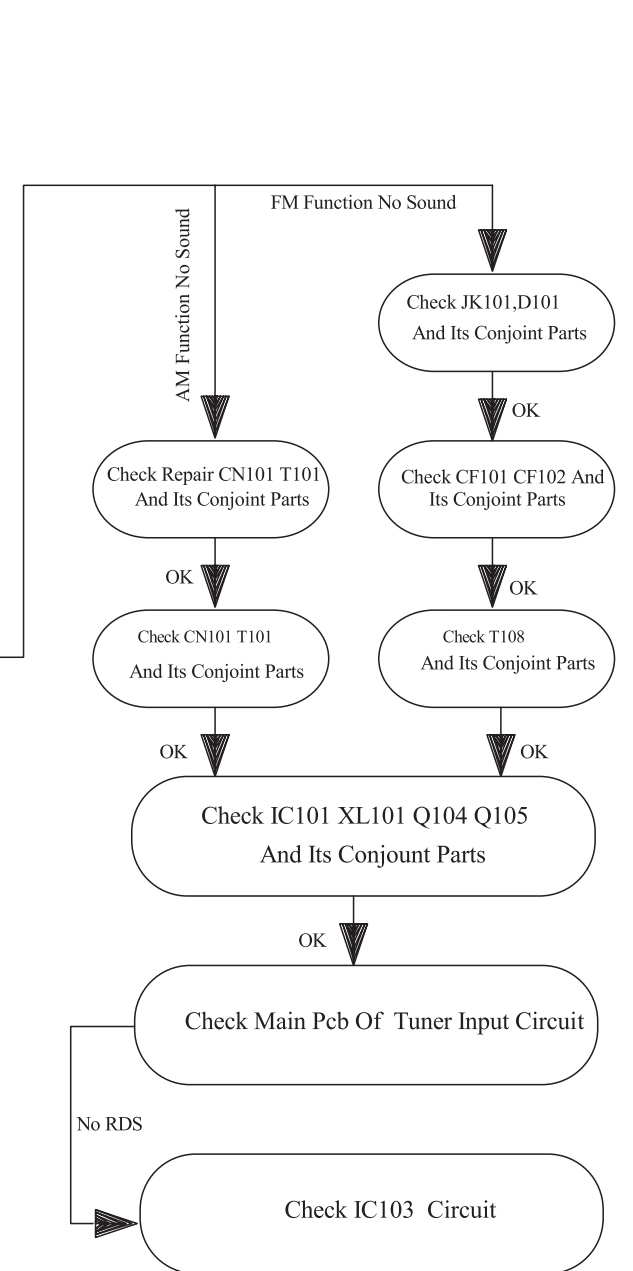
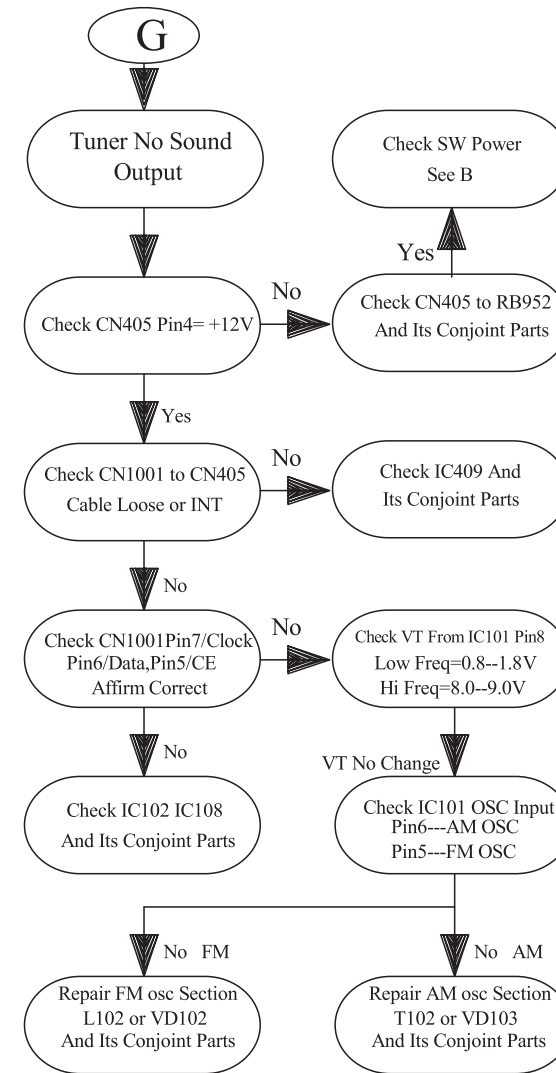
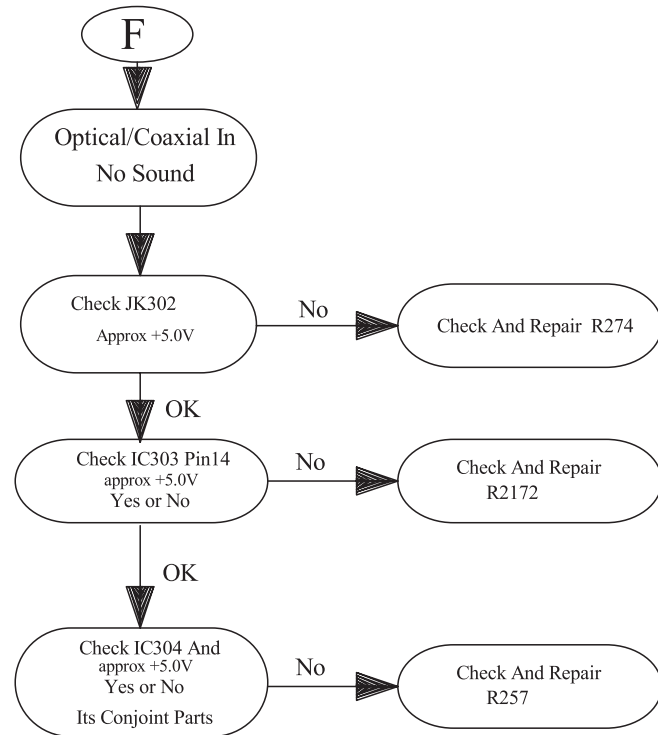
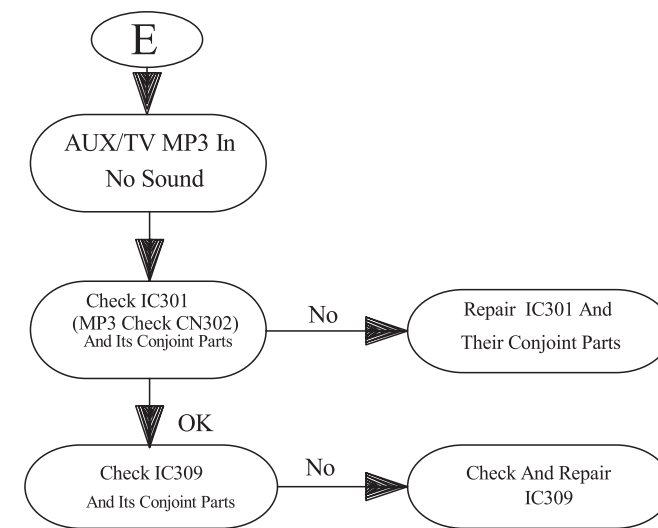
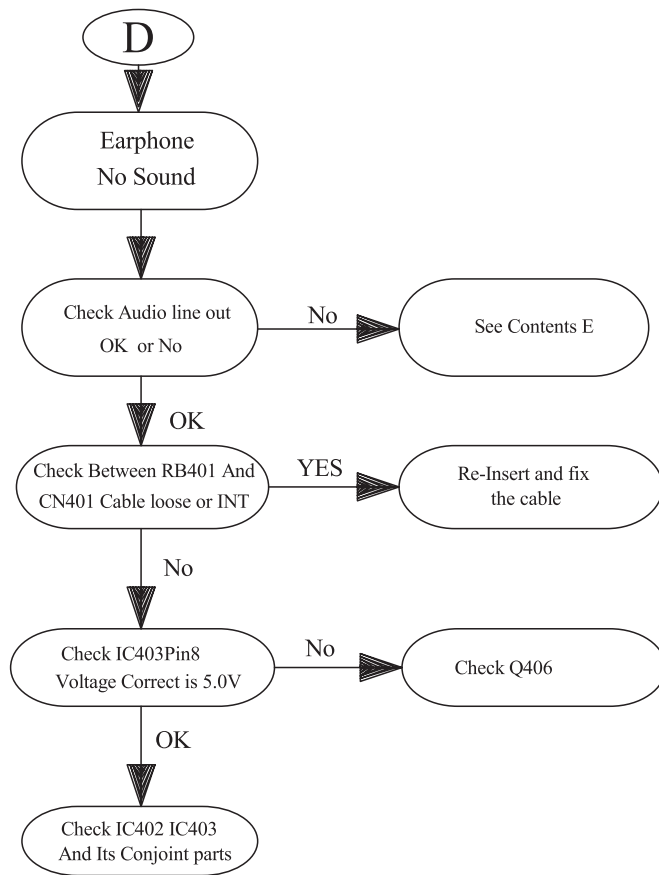
CAUTION !

This information is confidential and may not be distributed. Only a qualified service person should reprogram the Region Code.

MAIN UNIT REPAIR CHART 1/2



MAIN UNIT REPAIR CHART 2/2



DISASSEMBLY INSTRUCTIONS

Dismantling of the top cover Assembly

- 1) Loosen 5 screws to take out the Top Cover
 - 3 screws "A" on the back as show in figure 1
 - 1 screws "B" each on the left & right side as show in figure 2

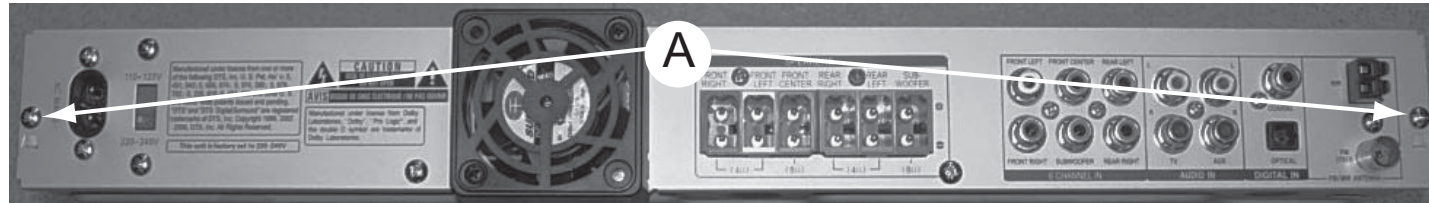


Figure 1

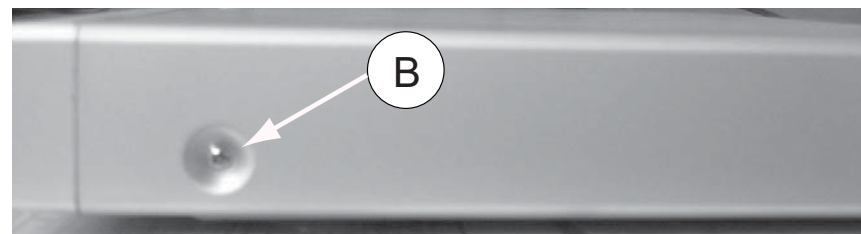


Figure 2

Dismantling of the front panel Assembly

- 1) Loosen 6 screws to take out the front panel.
 - 1 screw "C" on the inside as show in figure 3
 - 1 screw "D" each on the left & right side as show in figure 4
 - 3 screws "E" on the bottom as show in figure 5

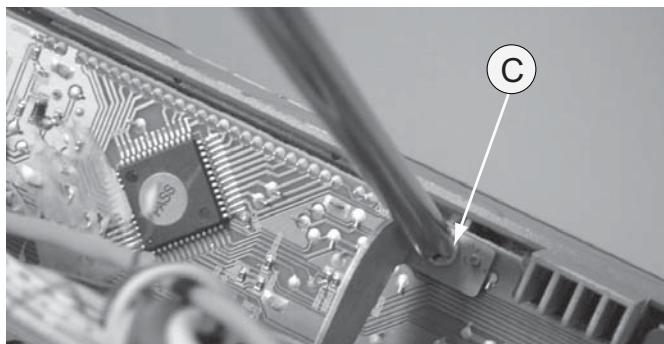


Figure 3

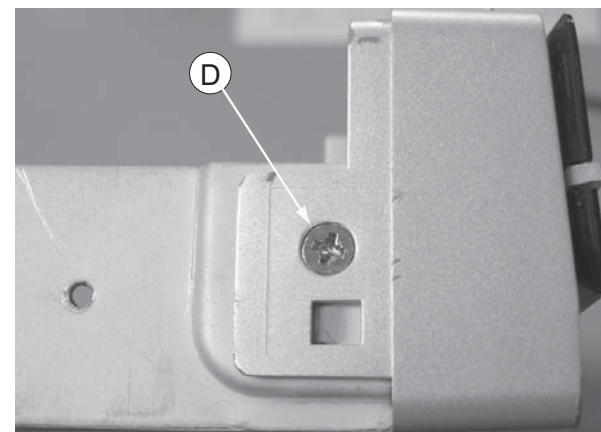


Figure 4

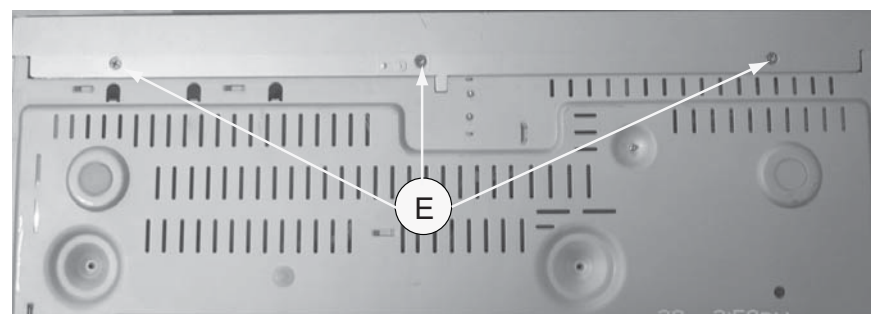


Figure 5

Dismantling of the Main PCB

- 1) Loosen 4 screw " F " on the top of main board as shown in figure 6.
- 2) Loosen 6 screw " G " at the back panel as shown in figure 7.

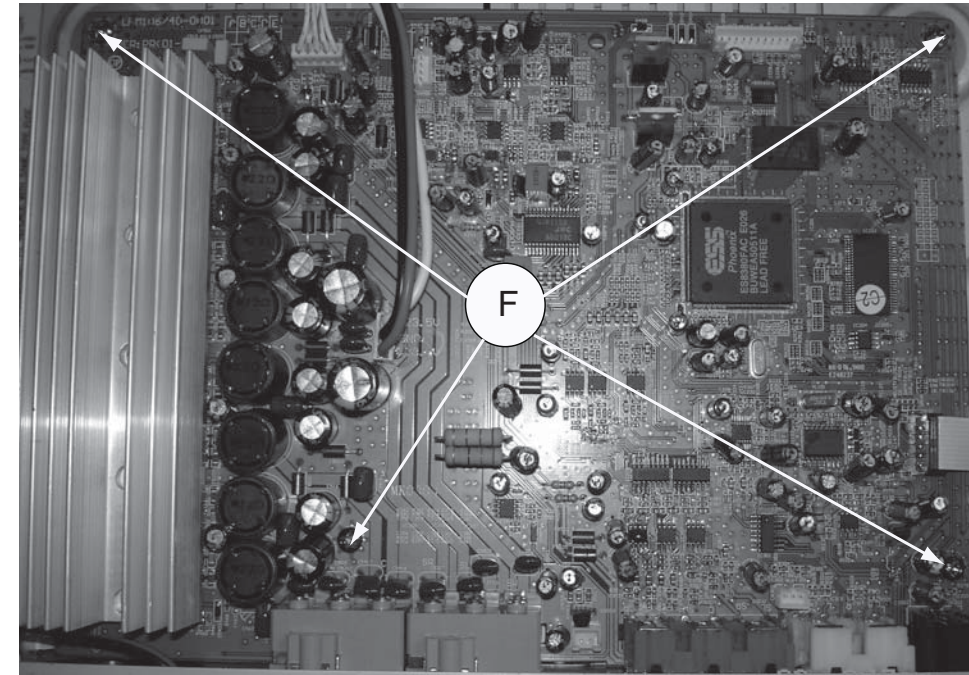


Figure 6

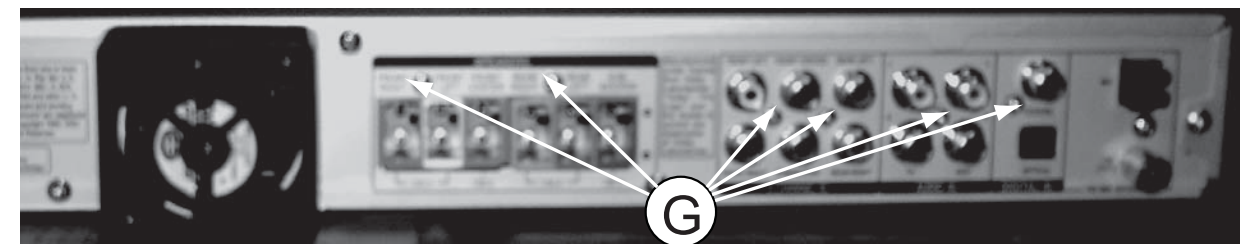


Figure 7

Dismantling of the Control Board

1) Loosen 13 screws "H" at the back pancele as shown in figure 8

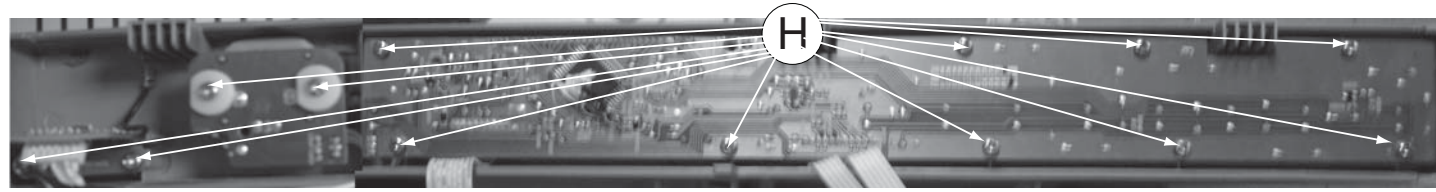


Figure 8

Dismantling of the Power Board

1) Loosen 5 screws "D" at the top of the Power Board as shown in figure 9

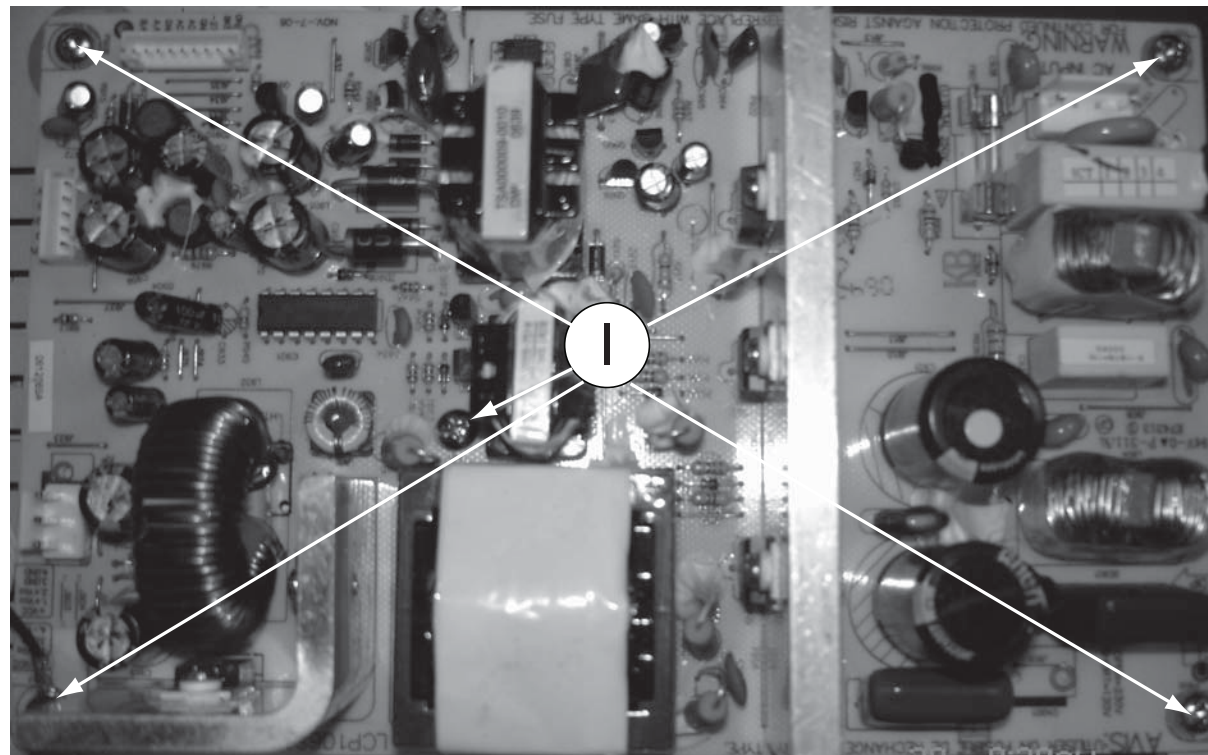
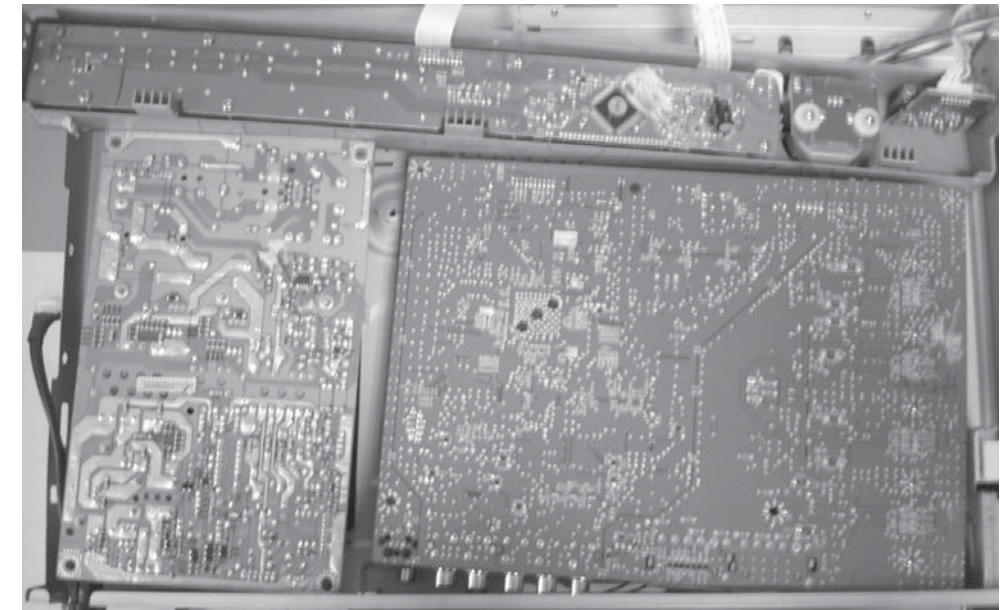
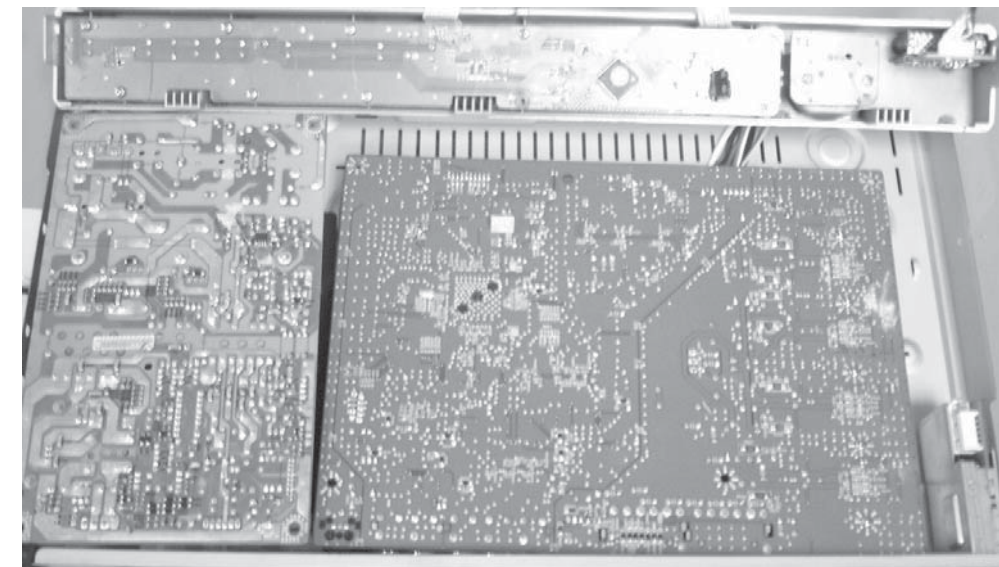


Figure 9

Service Position



Service A



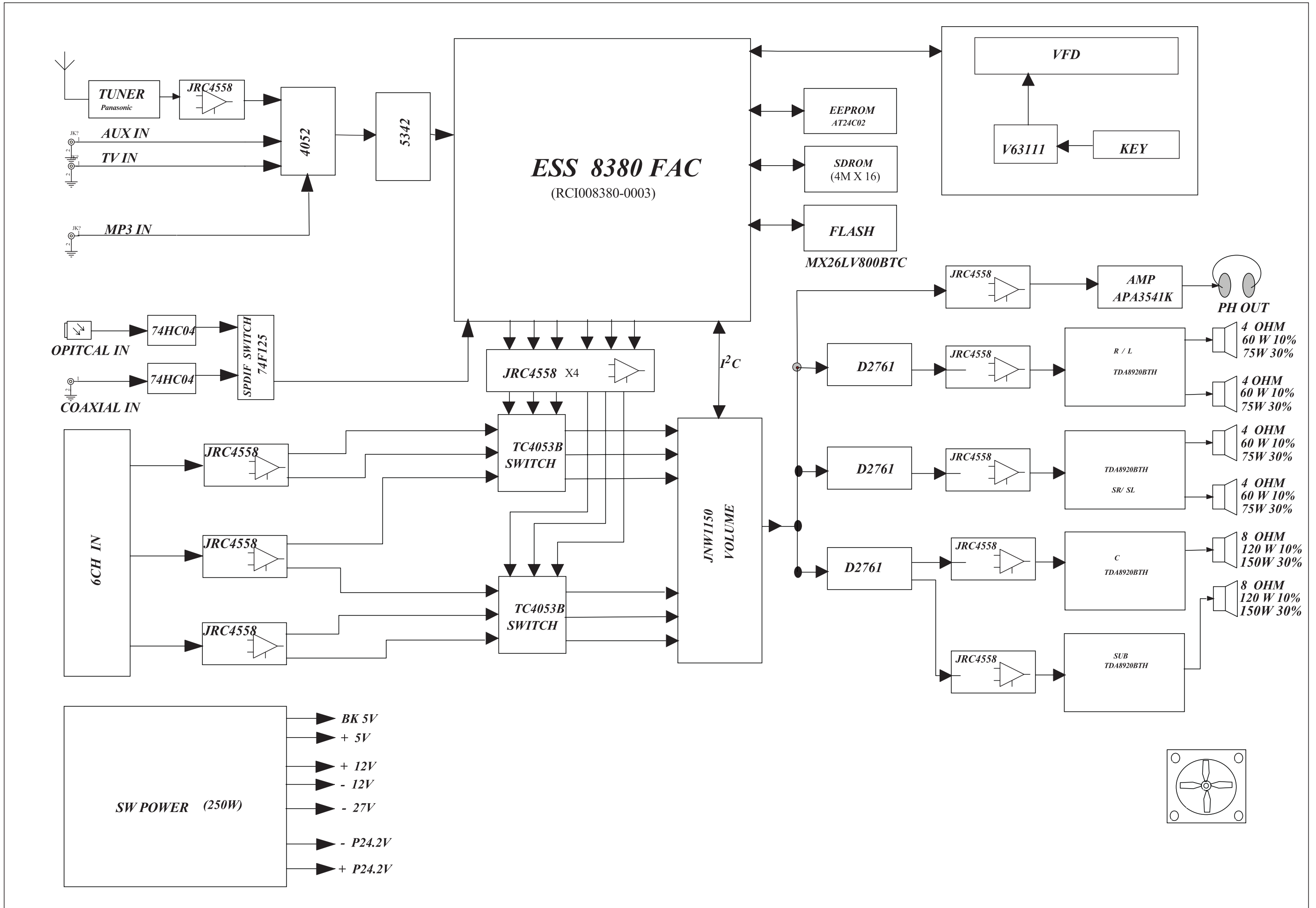
Service B

Note: In some service positions the components or copper patterns of one board may risk touching its neighbouring pc boards or metallic parts. To prevent such short-circuit use a piece of hard paper or other insulating material between them.

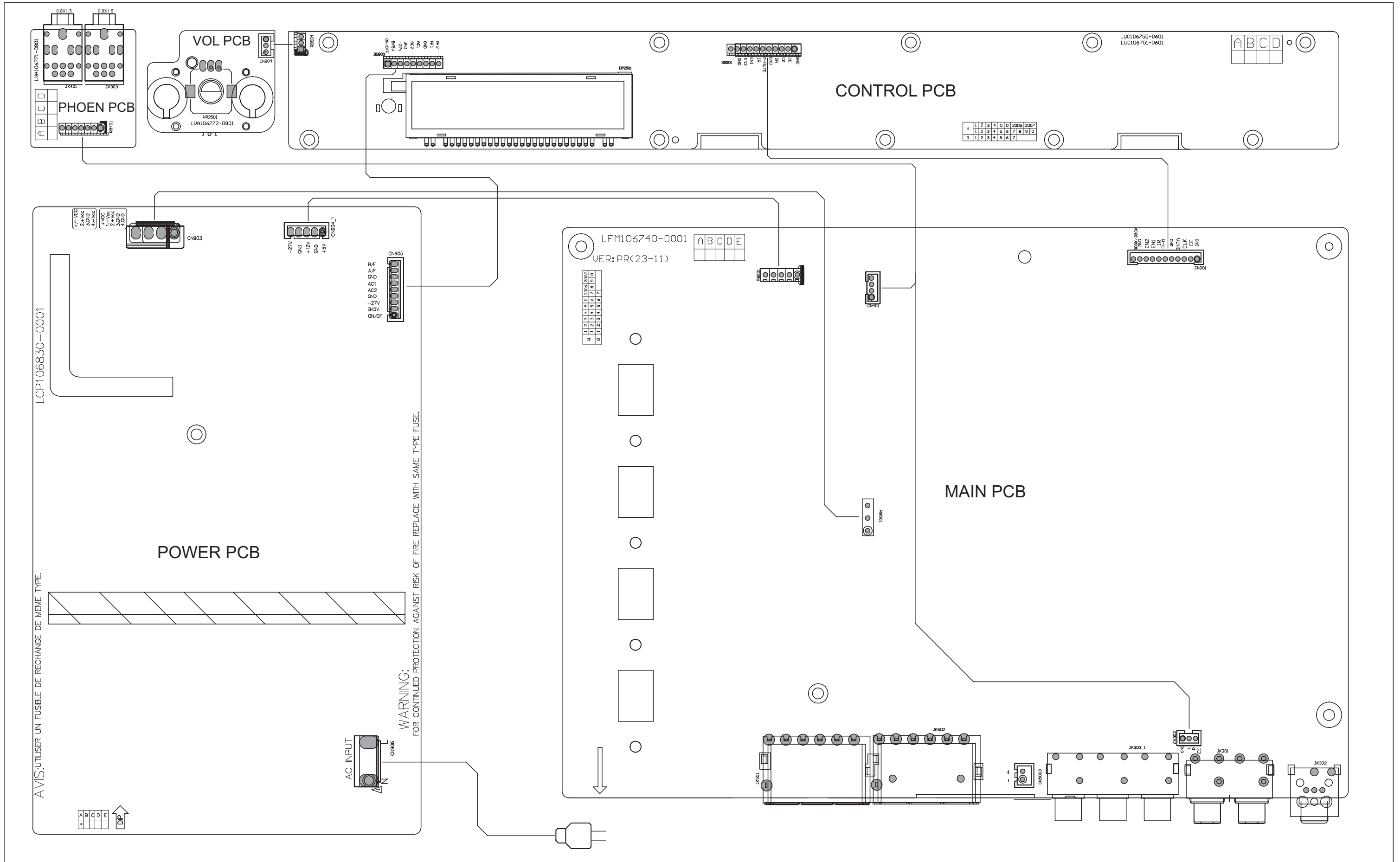
BLOCK DIAGRAM

4 - 1

4 - 1



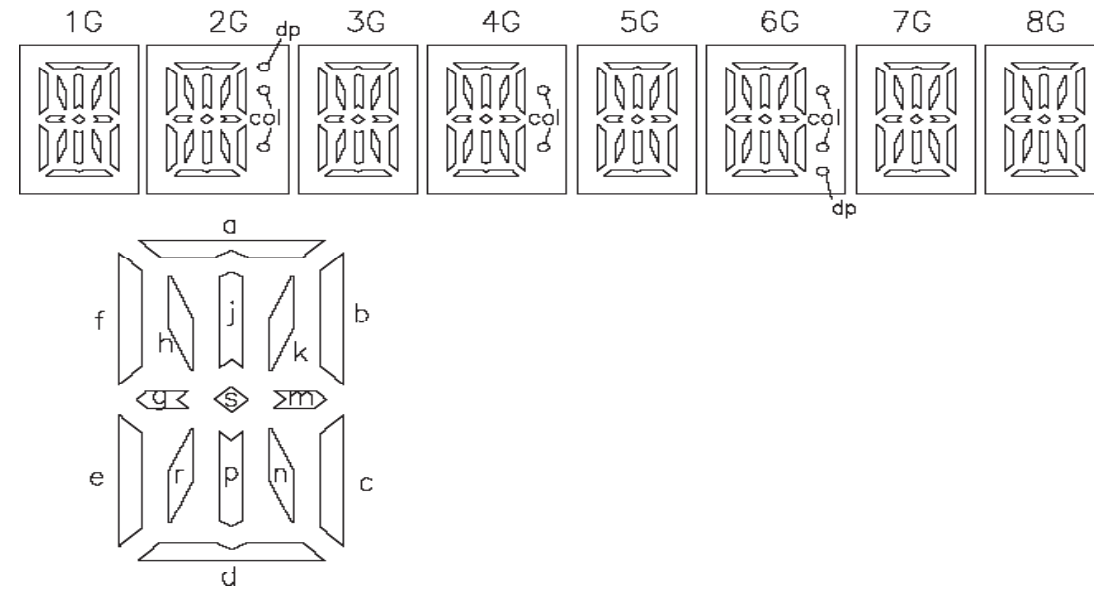
WIRING DIAGRAM



CONTROL BOARD

TABLE OF CONTENTS

FTD Display Pin Assignment..... 5-1
 Voltage 5-2
 Circuit Diagram(control pcb)..... 5-3
 PCB Layout Top & Bottom View(control pcb) 5-4
 Circuit Diagram(phone & vol pcb)..... 5-5
 PCB Layout Top & Bottom View(phone & vol pcb) 5-5



	1G	2G	3G	4G	5G	6G	7G	8G
P1	a	a	a	a	a	a	a	a
P2	j, p	j, p	j, p	j, p	j, p	j, p	j, p	j, p
P3	h	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d	d
P14	—	dp	—	col	—	col	—	—
P15	s	s	s	s	s	s	s	s
P16	—	col	—	—	—	dp	—	—

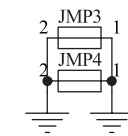
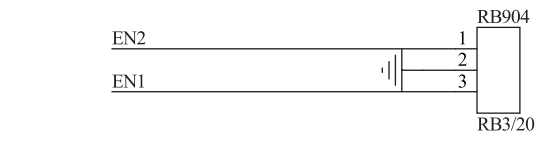
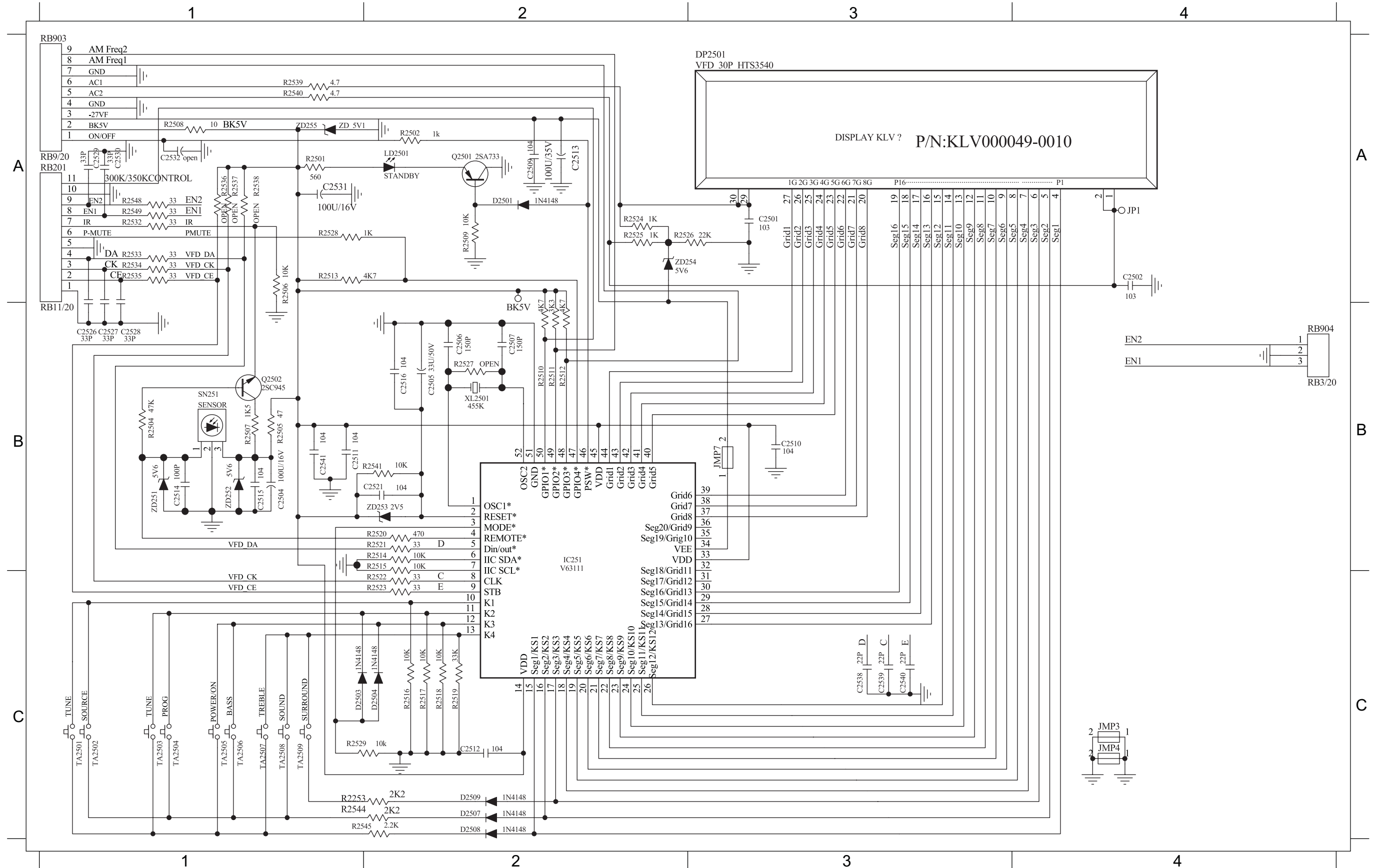
PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CONNECTION	F	F	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
PIN NO.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CONNECTION	P13	P14	P15	P16	1G	2G	3G	4G	5G	6G	7G	8G	NP	F	F

Note: F: Filament P: Anode G: Grid NP: No pin

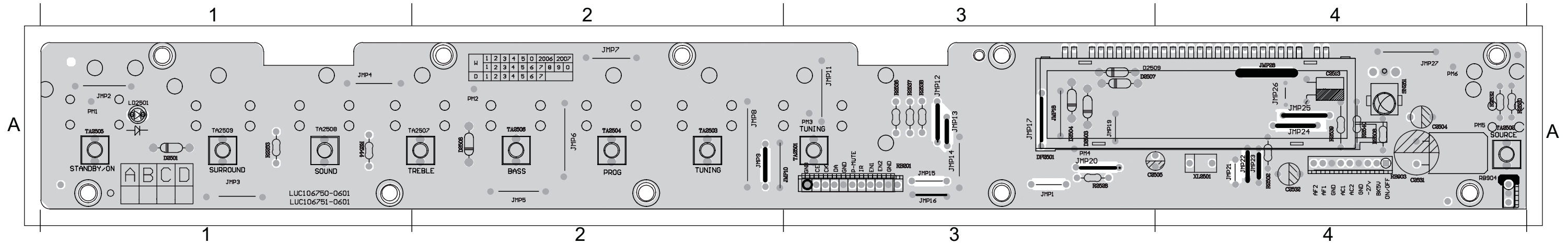
CIRCUIT DIAGRAM (control pcb)

C2501 A3	C2509 A2	C2515 B1	C2529 A1	C2541 B1	D2509 C2	LD2501 A2	R2504 B1	R2510 B2	R2516 C2	R2522 C2	R2529 C1	R2540 A1	RB201 A1	TA2503 C1	TA2509 C1	ZD255 A1
C2502 A4	C2510 B3	C2516 B2	C2530 A1	D2501 A2	DP2501 A3	Q2501 A2	R2505 B1	R2511 B2	R2517 C2	R2523 C2	R2532 A1	R2541 B2	RB903 A1	TA2504 C1	XL2501 B2	
C2504 B1	C2511 B1	C2521 B2	C2531 A1	D2503 C1	IC251 B2	Q2502 B1	R2506 A1	R2512 B2	R2518 C2	R2524 A2	R2533 A1	R2544 C1	RB904 B4	TA2505 C1	ZD251 B1	
C2505 B2	C2512 C2	C2526 B1	C2538 C3	D2504 C2	JMP3 C4	R2253 C1	R2507 B1	R2513 A1	R2519 C2	R2525 A2	R2534 A1	R2545 C1	SN251 B1	TA2506 C1	ZD252 B1	
C2506 B2	C2513 A2	C2527 B1	C2539 C3	D2507 C2	JMP4 C4	R2501 A1	R2508 A1	R2514 B2	R2520 B2	R2526 A2	R2535 A1	R2548 A1	TA2501 C1	TA2507 C1	ZD253 B2	
C2507 B2	C2514 B1	C2528 B1	C2540 C3	D2508 C2	JMP7 B3	R2502 A2	R2509 A2	R2515 B2	R2521 B2	R2528 A1	R2539 A1	R2549 A1	TA2502 C1	TA2508 C1	ZD254 A2	



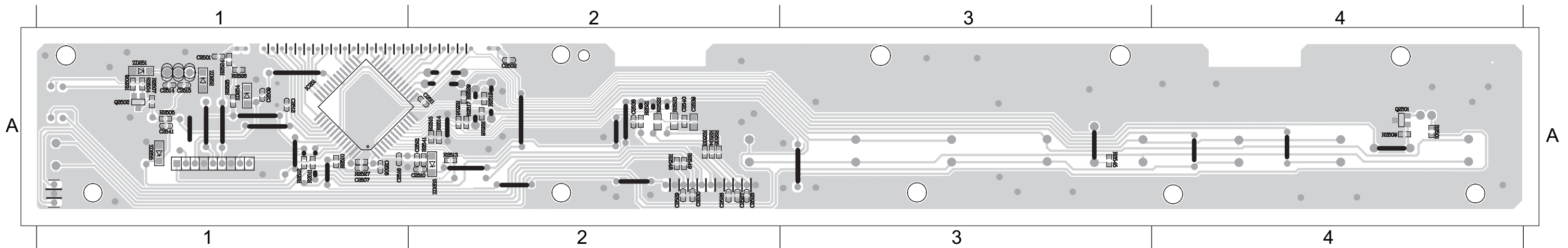
PCB LAYOUT - TOP VIEW (control pcb)

D2501	A1	LD2501	A1	TA2506	A1	JMP10	A2	JMP8	A2	TA2507	A2	D2507	A3	JMP11	A3	JMP15	A3	JMP19	A3	TA2501	A3	JMP21	A4	JMP25	A4	R2502	A4	R2539	A4	SN251	A4
JMP2	A1	R2253	A1	TA2508	A1	JMP5	A2	JMP9	A2	C2505	A3	D2509	A3	JMP12	A3	JMP16	A3	JMP20	A3	C2504	A4	JMP22	A4	JMP26	A4	R2508	A4	R2540	A4	TA2502	A4
JMP3	A1	R2544	A1	TA2509	A1	JMP6	A2	TA2503	A2	D2503	A3	DP2501	A3	JMP13	A3	JMP17	A3	R2528	A3	C2513	A4	JMP23	A4	JMP27	A4	R2520	A4	RB903	A4	XL2501	A4
JMP4	A1	TA2505	A1	D2508	A2	JMP7	A2	TA2504	A2	D2504	A3	JMP1	A3	JMP14	A3	JMP18	A3	RB201	A3	C2531	A4	JMP24	A4	JMP28	A4	R2532	A4	RB904	A4		



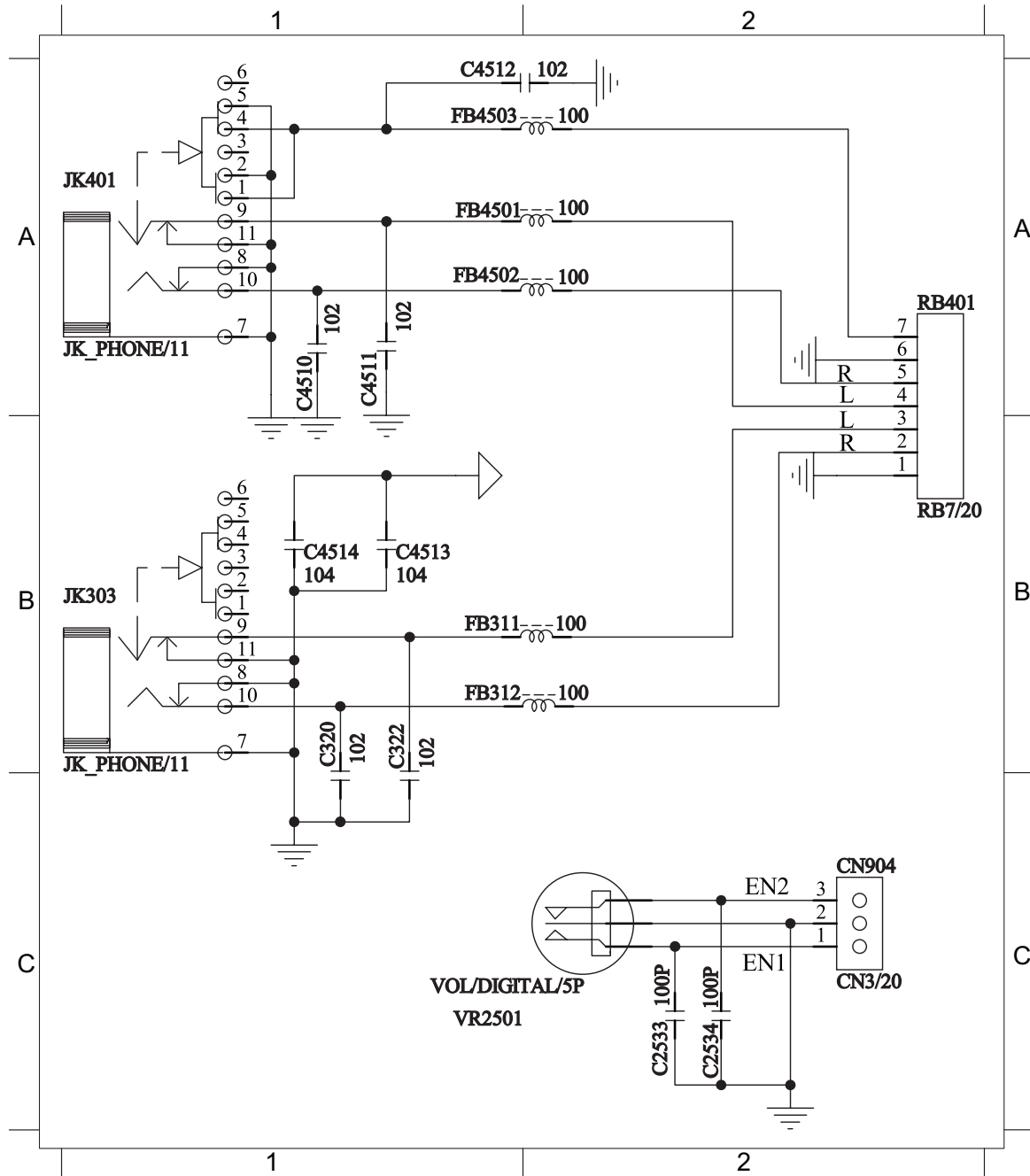
PCB LAYOUT - BOTTOM VIEW (control pcb)

C2501	A1	C2512	A1	C2541	A1	R2505	A1	R2511	A1	R2526	A1	ZD255	A1	C2521	A2	C2529	A2	C2540	A2	R2516	A2	R2521	A2	R2533	A2	R2548	A2	Q2501	A4
C2506	A1	C2514	A1	IC251	A1	R2506	A1	R2512	A1	ZD251	A1	C2502	A2	C2526	A2	C2530	A2	R2513	A2	R2517	A2	R2522	A2	R2534	A2	R2549	A2	R2501	A4
C2507	A1	C2515	A1	Q2502	A1	R2507	A1	R2524	A1	ZD252	A1	C2510	A2	C2527	A2	C2538	A2	R2514	A2	R2518	A2	R2523	A2	R2535	A2	ZD253	A2	R2509	A4
C2509	A1	C2516	A1	R2504	A1	R2510	A1	R2525	A1	ZD254	A1	C2511	A2	C2528	A2	C2539	A2	R2515	A2	R2519	A2	R2529	A2	R2541	A2	R2545	A3		



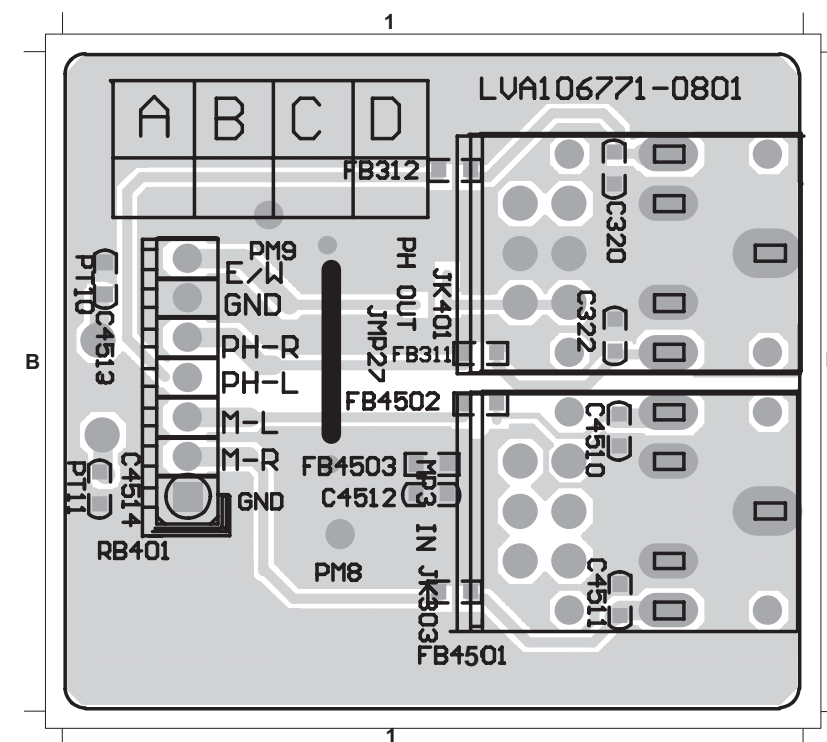
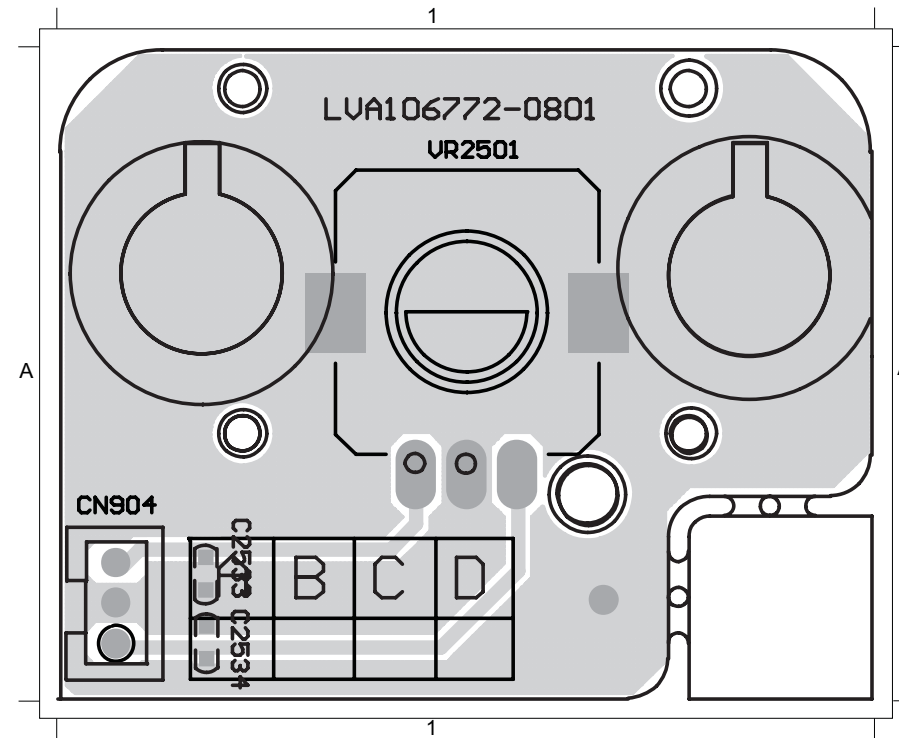
CIRCUIT DIAGRAM (phone & vol pcb)

C2533	C2	C322	B1	C4512	A1	CN904	C2	FB4501	A1	JK303	B1	VR2501	C2
C2534	C2	C4510	A1	C4513	B1	FB311	B1	FB4502	A1	JK401	A1		
C320	B1	C4511	A1	C4514	B1	FB312	B1	FB4503	A1	RB401	A2		



PCB LAYOUT - TOP VIEW (phone&vol pcb)

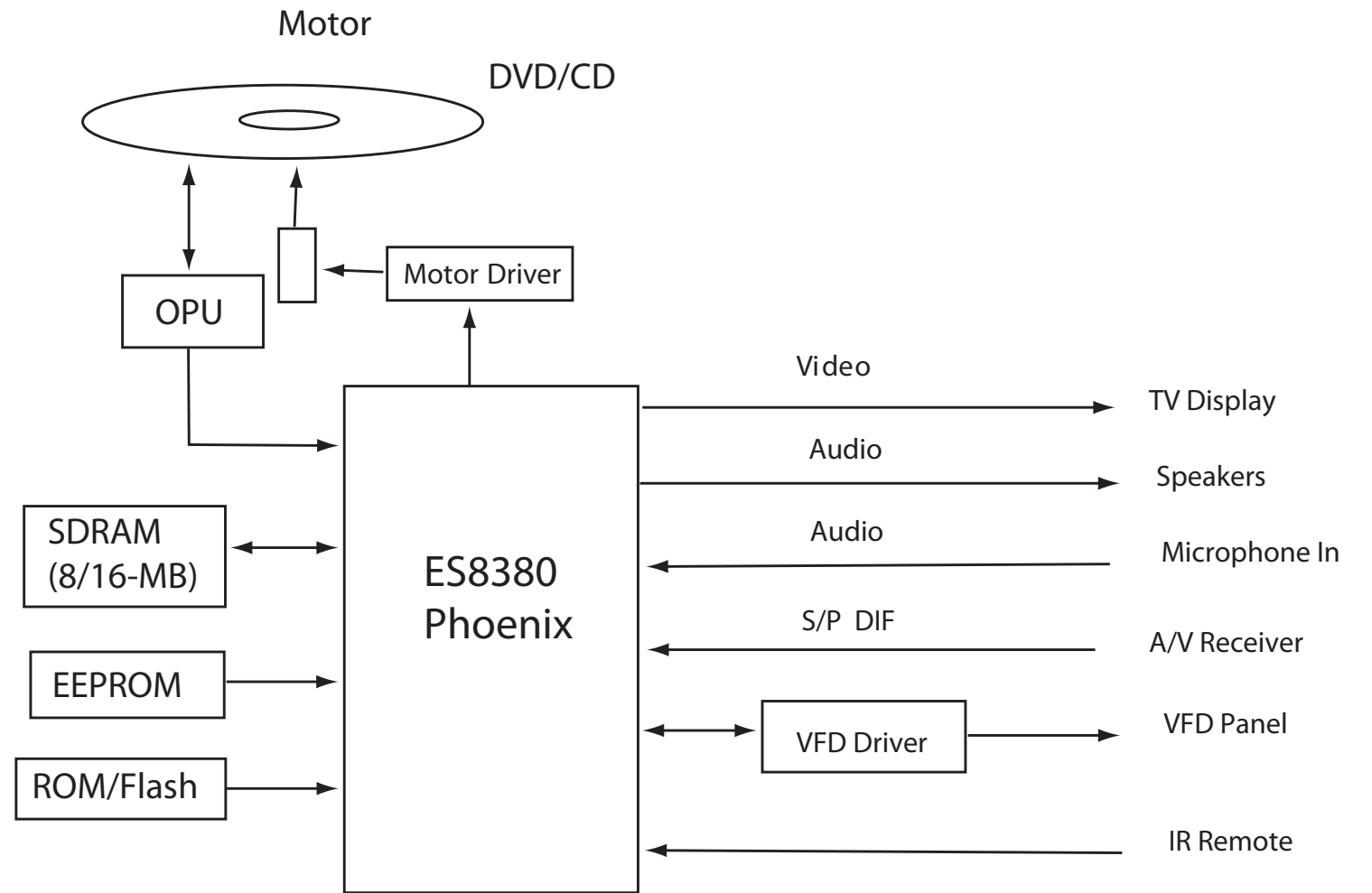
C2533	A1	C322	B1	C4512	B1	CN904	A1	FB4501	B1	JK303	B1	PM9	B1
C2534	A1	C4510	B1	C4513	B1	FB311	B1	FB4502	B1	JK401	B1	RB401	B1
C320	B1	C4511	B1	C4514	B1	FB312	B1	FB4503	B1	JMP27	B1	VR2501	A1



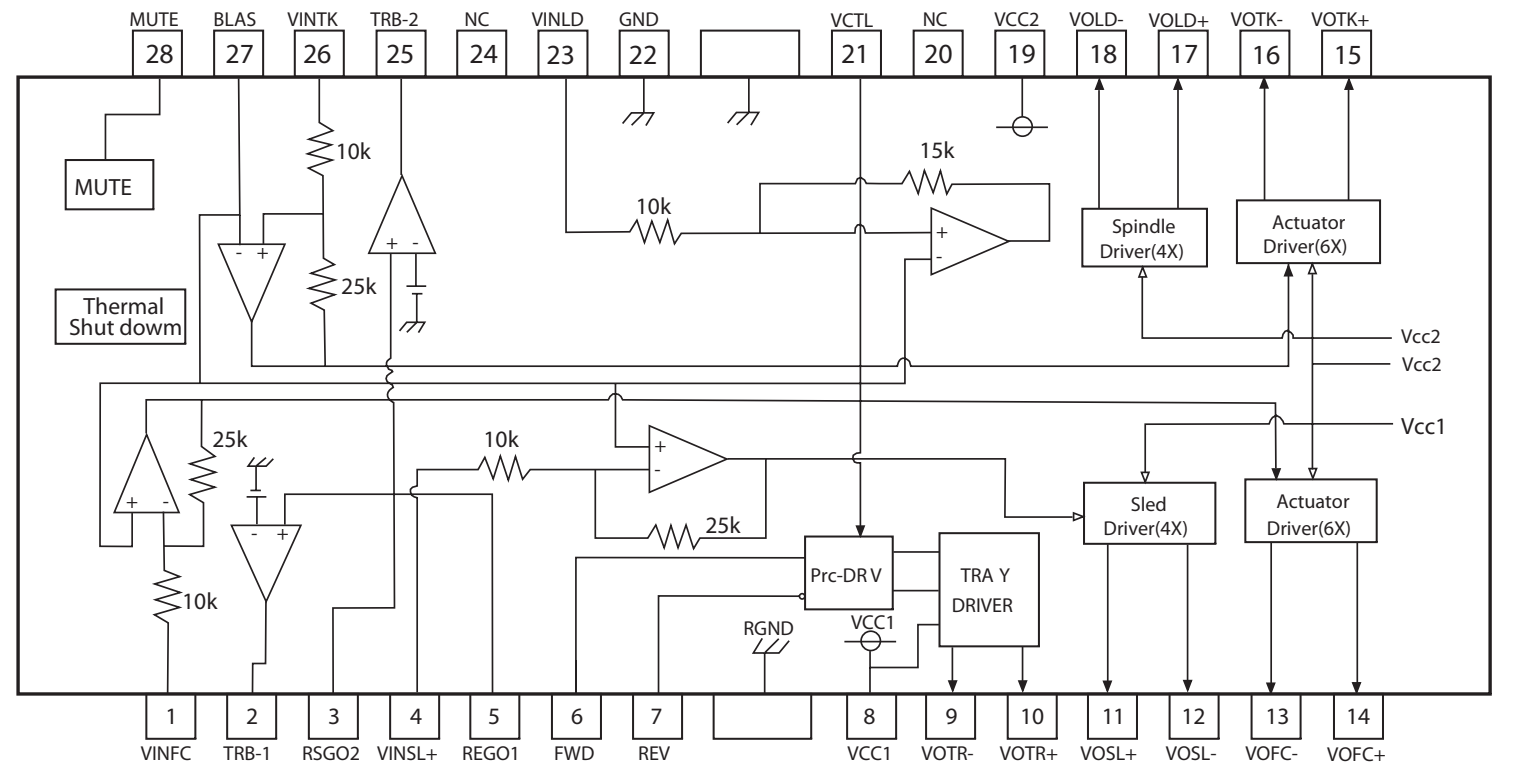
MAIN BOARD

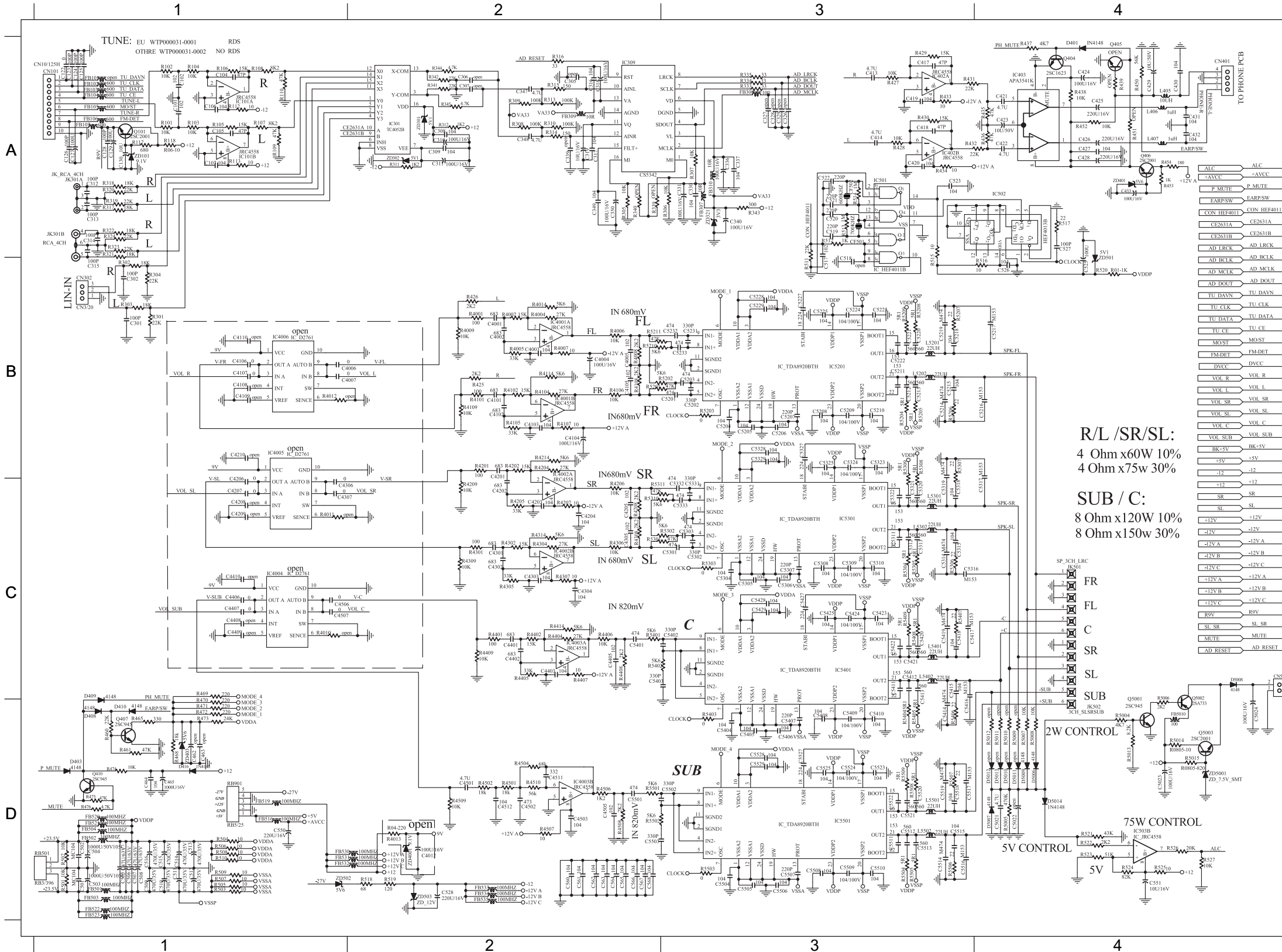
TABLE OF CONTENTS

Internal IC Diagram 6-1
 Circuit Diagram(AMP Board) 6-2
 Circuit Diagram(mian pcb) 6-3
 PCB Layout Top View 6-4
 PCB Layout Bottom View 6-5
 Voltage 6-6



INTERNAL IC DIAGRAM - V5888S HOSP





C101	A1	C4301	C2	C5233	B3	C5519	D3	L406	A4	R4206	C2	R5202	B3
C102	A1	C4302	C2	C525	B4	C5520	D3	L407	A4	R4207	C2	R5203	B3
C104	A1	C4303	C2	C526	B4	C5521	D3	L5201	B3	R4208	C2	R5204	B3
C105	A1	C4304	C2	C527	A4	C5522	D3	L5202	B3	R4209	C2	R5205	B3
C106	A1	C4305	C2	C528	D2	C5523	D3	L5301	C3	R4214	B2	R5206	B3
C107	A1	C4306	C1	C5301	C3	C5524	D3	L5302	C3	R425	B2	R5207	B3
C122	A1	C4307	C1	C5302	C3	C5525	D3	L5401	C3	R426	B2	R5208	B3
C123	A1	C431	A4	C5303	C3	C5527	D3	L5402	C3	R427	A3	R5209	B3
C124	A1	C432	A4	C5304	C3	C5528	D3	L5501	D3	R428	A3	R5210	D4
C125	A1	C433	A4	C5305	C3	C5529	D3	L5502	D3	R429	A3	R5210	B2
C126	A1	C4401	C2	C5306	C3	C560	D2	Q101	A1	R430	A3	R5211	B2
C127	A1	C4402	C2	C5307	C3	C561	D2	Q404	A4	R4301	C2	R522	D4
C128	A1	C4403	C2	C5308	C3	C562	D2	Q406	A4	R4302	C2	R523	D4
C129	A1	C4405	C2	C5309	C3	C563	D2	Q407	D1	R4304	C2	R524	D4
C130	A1	C4406	C1	C5310	C3	C564	D2	Q410	D1	R4305	C2	R525	D4
C301	B1	C4407	C1	C5311	C3	C565	D2	Q5001	D4	R4306	C2	R526	D4
C302	B1	C4408	C1	C5312	C3	C566	D2	Q5002	D4	R4307	C2	R527	D4
C306	A2	C4409	C1	C5313	C3	C567	D2	Q5003	D4	R4308	C2	R5301	C2
C307	A2	C4410	C1	C5314	C3	C568	D2	R101	A1	R4309	C2	R5302	C2
C308	A2	C4501	D2	C5315	C3	C5501	A3	R102	A1	R4314	C2	R5303	C3
C309	A2	C4502	D2	C5316	C3	C5502	A3	R103	A1	R433	A3	R5304	C3
C310	A2	C4503	D2	C5317	B4	CN101	A1	R104	A1	R434	A3	R5305	C3
C311	A2	C4504	D2	C5318	C3	CN302	B1	R105	A1	R435	A4	R5306	C3
C312	A1	C4506	C1	C5319	C3	CN401	A4	R106	A1	R436	A4	R5307	B3
C313	A1	C4507	C1	C5320	C3	CN5003	C4	R107	A1	R437	A4	R5308	B3
C314	A1	C4511	D2	C5321	C3	D403	D1	R108	A1	R438	A4	R5309	B3
C315	A1	C4512	D2	C5322	C3	D408	D1	R109	A1	R4401	C2	R5310	C2
C316	A2	C464	D1	C5323	B3	D409	D1	R110	A1	R4402	C2	R5311	C2
C317	A2	C465	D1	C5324	B3	D410	D1	R112	A1	R4404	C2	R5401	C2
C318	A2	C501	D1	C5325	B3	D416	D1	R113	A1	R4405	C2	R5402	C3
C319	A2	C502	D1	C5327	B3	D5006	D4	R117	A1	R4406	C2	R5403	C2
C330	A3	C5021	D4	C5328	B3	D5007	D4	R118	A1	R4407	C2	R5404	D3
C331	A3	C5022	D4	C5329	B3	D5008	D4	R302	B1	R4408	C2	R5405	D3
C336	A3	C5023	D4	C5331	C3	D5013	C4	R303	B1	R4409	C2	R5406	D3
C337	A3	C503	D1	C5332	C3	D5014	D4	R305	A2	R4414	C2	R5407	C3
C340	A3	C504	D1	C5333	C3	FB101	A1	R306	A3	R450	A4	R5408	C3
C347	A2	C505	D1	C5401	C2	FB102	A1	R307	A3	R4501	D2	R5409	C3
C348	A2	C506	D1	C5402	C3	FB103	A1	R308	A2	R4502	D2	R5501	D2
C349	A2	C507	D1	C5403	C2	FB104	A1	R309	A2	R4504	D2	R5502	D2
C350	A2	C508	D1	C5404	D3	FB105	A1	R310	A2	R4506	D2	R5503	D3
C4001	B2	C509	D1	C5405	D3	FB106	A1	R311	A2	R4507	D2	R5504	D3
C4002	B2	C510	D1	C5406	D3	FB107	A1	R312	A2	R4508	D2	R5505	D3
C4003	B2	C511	D1	C5407	D3	FB307	A3	R313	A2	R4510	D2	R5506	D3
C4004	B2	C512	D1	C5408	D3	FB308	A3	R314	A2	R452	A4	R5507	D3
C4005	B2	C513	D1	C5409	D3	FB309	A2	R315	A2	R453	A4	R5508	D3
C4006	B1	C514	D1	C5410	D3	FB310	A3	R316	A2	R454	A4	R5509	D3
C4007	B1	C515	D1	C5411	C3	FB501	D1	R317	A1	R461	D1	RB501	D1
C4012	D2	C516	D1	C5412	C3	FB5010	D4	R318	A1	R465	D1	RB901	D1
C4101	B2	C517	A3	C5413	C3	FB5011	D1	R321	A1	R468	D1	ZD101	A1
C4102	B2	C519	A3	C5414	D3	FB503	D1	R322	A1	R469	C1	ZD301	A2
C4103	B2	C520	A3	C5415	C3	FB504	D1	R333	A3	R470	D1	ZD302	A2
C4104	B2	C5201	B3	C5416	C3	FB516	D1	R334	A3	R471	D1	ZD321	A3
C4105	B2	C5202	B3	C5417	C3	FB519	D1	R335	A3	R472	D1	ZD4001	D2
C4106	B1	C5203	B3	C5418	C3	FB520	D1	R341	A2	R473	D1	ZD401	A4
C4107	B1	C5204	B3	C5419	C3	FB521	D1	R342	A2	R474	D1	ZD403	D1
C4108	B1	C5205	B3	C5420	C3	FB522	D1	R343	A3	R475	D1	ZD5001	D4
C4109	B1	C5206	B3	C5421	C3	FB523	D1	R344	A2	R476	D1	ZD501	A4
C4110	B1	C5207	B3	C5422	C3	FB530	D2	R345	A2	R5004	D4	ZD502	D1
C413	A3	C5208	B3	C5423	D3	FB531	D2	R4001	B2	R5005	D4	ZD503	D2
C414	A3	C5209	B3	C5424	D3	FB532	D2	R4002	B2	R5006	D4		
C417	A3	C521	A3	C5425	D3	FB533	D2	R4004	B2	R5007	D4		
C418	A3	C5210	B3	C5427	D3	FB534	D2	R4005	B2	R5008	D4		
C419	A3	C5211	B3	C5428	D3	FB535	D2	R4006	B2	R501	D1		
C420	A3	C5212	B3	C5429	D3	IC101	A1	R4007	B2	R5014	D4		
C4201	B2	C5213	B3	C550	D1	IC301	A2	R4008	B2	R5015	D4		
C4202	C2	C5214	B3	C5501	D2	IC309	A2	R4009	B2	R502	D1		
C4203	C2	C5215	B3	C5502	D2	IC4001	B2	R4010	C1	R503	D1		
C4204	C2	C5216	B4	C5503	D2	IC4002	B2	R4011	C1	R504	D1		
C4205	C2	C5217	B4	C5504	D3	IC4003	D2	R4012	B1	R505	D1		
C4206	C1	C5218	B3	C5505	D3	IC4004	C1	R4013	D2	R506	D1		
C4207	C1	C5219	B3	C5506	D3	IC4005	B1	R4014	B2	R507	D1		
C4208	C1	C522	A3	C5507	D3	IC4006	B1	R4101	B2	R508	D1		
C4209	C1	C5220	B3	C5508	D3	IC403	A3	R4102	B2	R509	D1		
C421	A4	C5221	B3	C5509	D3	IC403	A4	R4104	B2	R510	D1		
C4210	B1	C5222	B3	C551	D4	IC501	A3	R4105	B2	R512	A3		
C422	A4	C5223	B3	C5510	D3	IC502	A4	R4106	B2	R513	A3		
C423	A4	C5224	B3	C5511	D3	IC5201	B3	R4107	B2	R514	A3		
C424	A4	C5225	B3	C5512	D3	IC5301	C3	R4108	B2	R515	A3		
C425	A4	C5227	B3	C5513	D3	IC5401	C3	R4109	B2	R516	B4		
C426	A4	C5228	B3	C5514	D3	IC5501	D3	R4114	B2	R517	A4		
C427	A4	C5229	B3	C5515	D3	JK301	A1	R4201	B2	R518	D2		
C428	A4	C523	A3	C5516	D3	JK501	C4	R4202	B2	R519	D2		
C429	A4	C5231	B3	C5517	D3	JK502	D4	R4204	B2	R520	B4		
C430	A4	C5232	B3	C5518	D3	L405	A4	R4205	C2	R5201	B2		

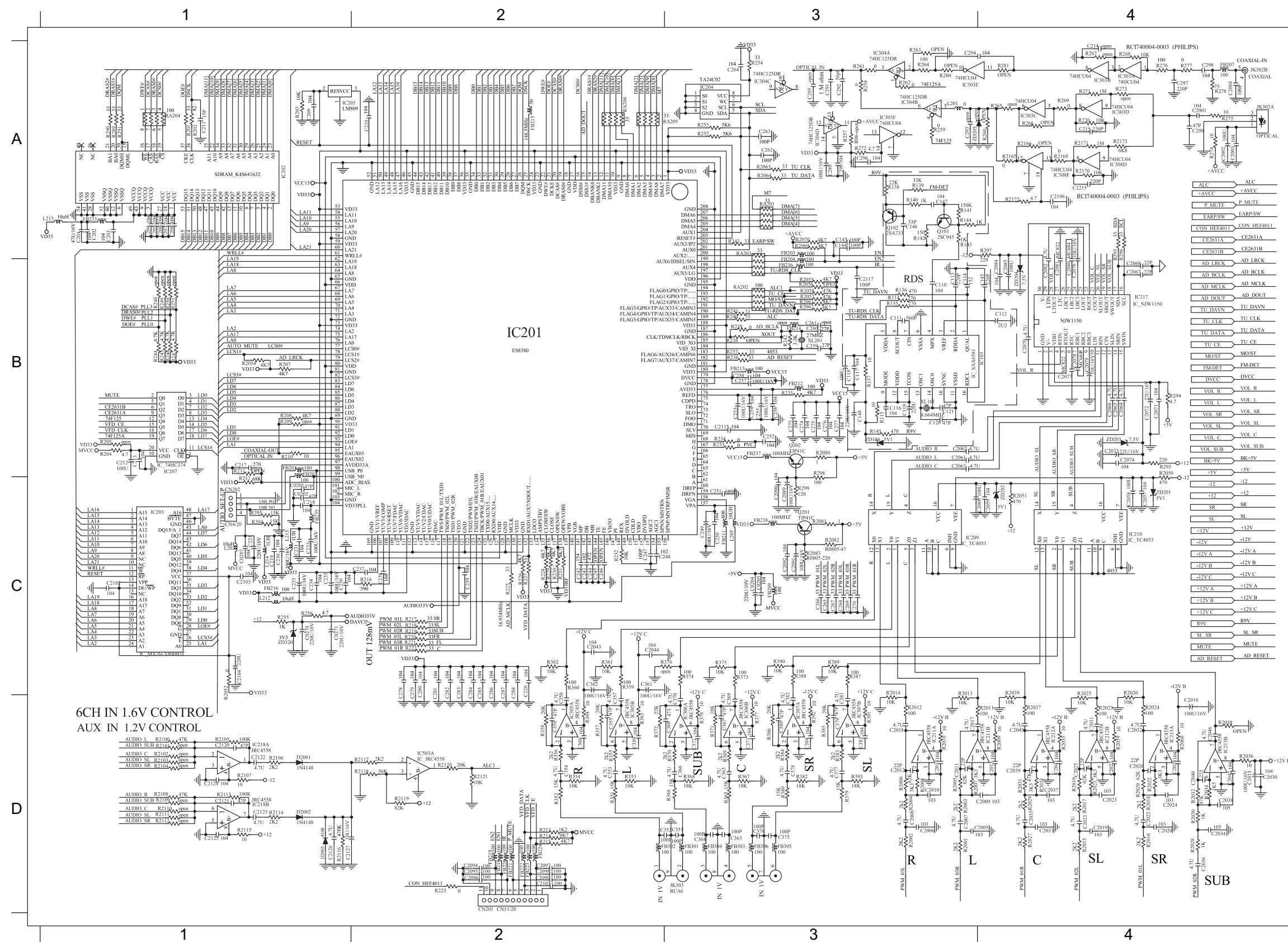
R/L/SR/SL:
4 Ohm x60W 10%
4 Ohm x75w 30%

SUB / C:
8 Ohm x120W 10%
8 Ohm x150w 30%

2W CONTROL

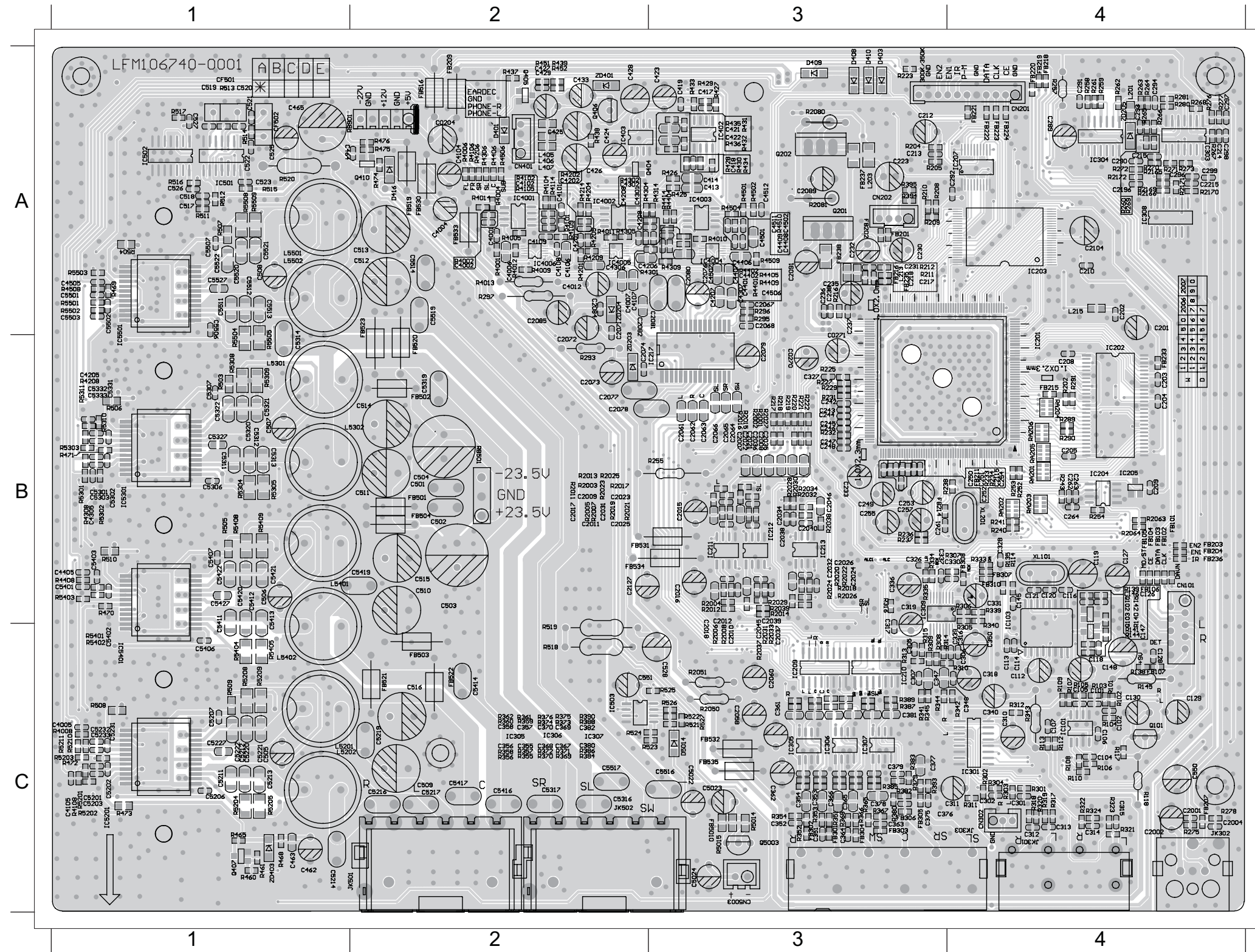
75W CONTROL

5V CONTROL



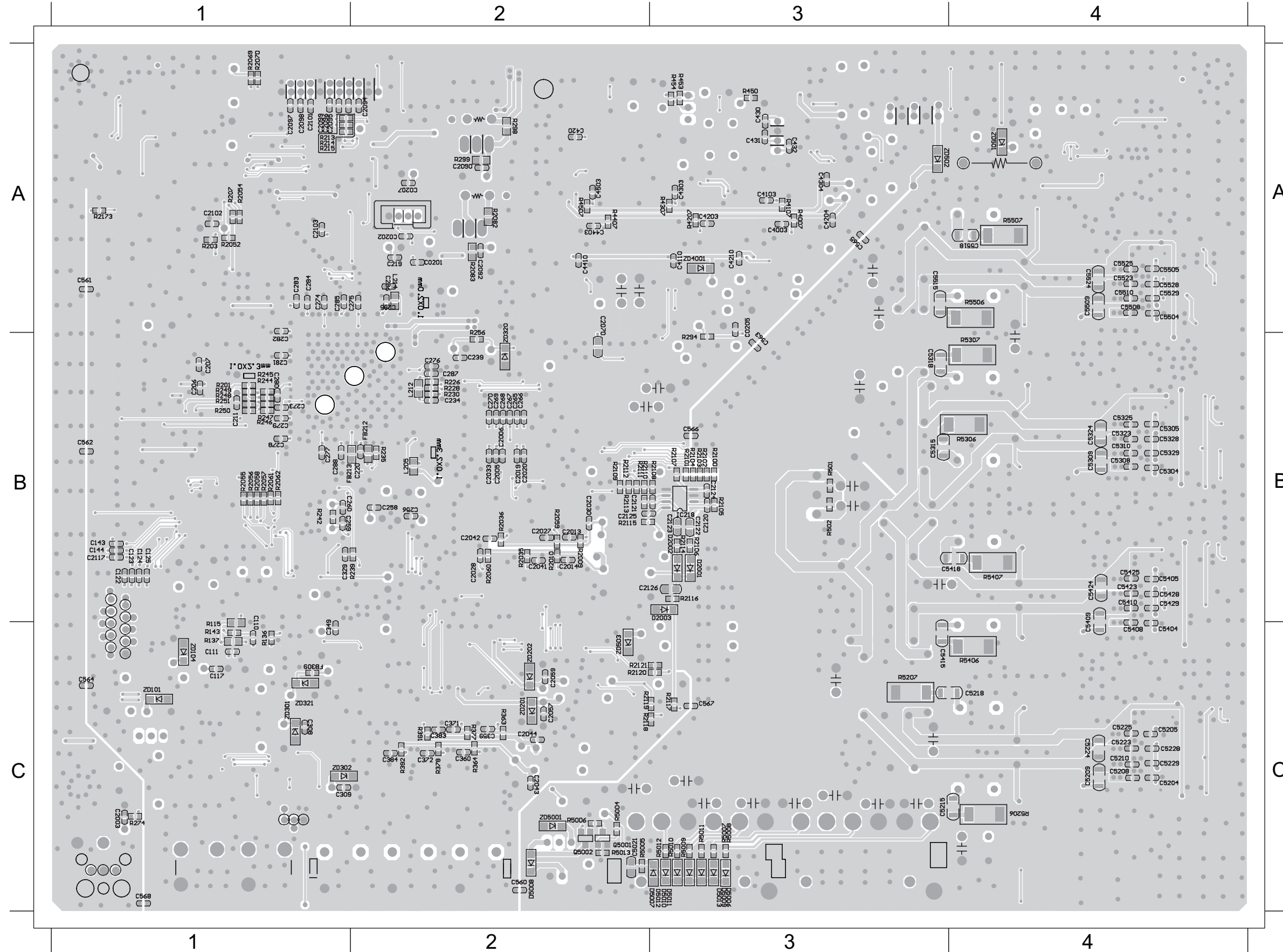
C0201	C1	C2079	B4	C278	C2	FB302	D3	R2055	B3	R268	A4
C0202	C1	C208	A1	C279	C2	FB303	D3	R2057	B3	R269	A4
C0204	D4	C2080	B4	C280	C2	FB304	D3	R2058	B3	R270	A4
C0205	D4	C2081	B4	C281	C2	FB305	D3	R2059	D4	R271	A4
C0207	C1	C2082	B4	C282	C2	FB306	D3	R2060	D4	R272	A2
C0270	C1	C2084	B4	C283	C2	IC201	B2	R2061	B3	R273	A4
C0271	C1	C2085	B4	C284	C2	IC202	A1	R2062	B3	R274	A4
C143	A2	C2089	C3	C285	C2	IC203	C1	R2063	A2	R275	A4
C2001	A4	C209	A1	C286	C2	IC204	A2	R2064	A2	R276	A4
C2001	A4	C2090	C3	C287	C2	IC205	A1	R2069	A2	R277	A4
C2002	A4	C2091	C3	C288	C2	IC207	B1	R207	B1	R278	A4
C2003	A4	C2092	C3	C289	A2	IC209	C3	R2070	A2	R280	A3
C2004	A4	C2094	D2	C290	A2	IC210	C4	R208	B1	R281	A4
C2005	D3	C2095	D2	C291	A2	IC211	D3	R2080	B3	R289	A1
C2006	D3	C2096	D2	C292	A2	IC212	D4	R2081	C3	R290	A1
C2007	D3	C2097	D2	C293	A3	IC213	D4	R2082	C3	R291	A1
C2008	D3	C2098	D2	C296	A3	IC217	B4	R2083	C3	R293	B4
C2009	D4	C2099	D2	C297	A4	IC218	D1	R210	B1	R294	B4
C201	A1	C210	A2	C298	A4	IC303	A3	R2100	D1	R295	A4
C2010	D3	C2101	D2	C299	A4	IC304	A2	R2101	D1	R296	A4
C2011	D3	C2102	C1	C351	D3	IC305	D2	R2105	D1	R297	A4
C2012	D3	C2103	C1	C352	D3	IC306	D3	R2106	D1	R298	B3
C2013	D4	C2104	C1	C353	D2	IC307	D3	R2107	D1	R299	C3
C2014	D3	C2115	B3	C354	D2	IC503	D2	R2108	D1	R351	D2
C2015	D4	C2117	B3	C355	D2	JK302	A4	R2109	D1	R352	D2
C2016	D4	C212	B1	C356	D2	JK303	D3	R2113	D1	R353	D2
C2017	D3	C2120	D1	C357	D2	L201	A3	R2114	D1	R354	D2
C2018	D3	C2121	D1	C358	D2	L203	C1	R2115	D1	R355	D2
C2019	D4	C2122	D1	C359	D2	L205	C3	R2116	D1	R356	D2
C202	A1	C2123	D1	C360	D2	L212	C1	R2117	D2	R357	D2
C2020	D4	C2124	D1	C361	C2	L213	C1	R2118	D2	R358	D2
C2021	D4	C2125	D1	C362	C2	L214	C1	R2119	D2	R359	C2
C2022	D4	C2126	D1	C363	D3	L215	A1	R212	C1	R360	C2
C2023	D4	C213	B1	C364	D3	Q201	C3	R2120	D2	R361	C2
C2024	D4	C214	A4	C365	D3	Q202	B3	R2121	D2	R362	C2
C2025	D4	C217	B1	C366	D3	R2001	D3	R213	D2	R363	D2
C2026	D4	C218	C1	C367	D3	R2002	D3	R214	D2	R364	D2
C2027	D4	C219	C1	C368	D3	R2003	D3	R215	D2	R365	D3
C2028	D4	C220	C2	C369	D3	R2004	D3	R216	C2	R366	D3
C203	A1	C223	C1	C370	D3	R2005	D3	R217	C2	R367	D3
C2030	D4	C230	C1	C371	D3	R2006	D3	R218	C2	R368	D3
C2031	D4	C231	C1	C372	D3	R2007	D3	R219	C2	R369	D3
C2032	D4	C232	C1	C375	D3	R2008	D3	R220	C2	R370	D3
C2033	D4	C233	C1	C376	D3	R2009	D4	R221	C2	R371	D3
C2034	D4	C234	C1	C377	D3	R201	A1	R222	C2	R373	D3
C2035	D4	C235	C1	C378	D3	R2010	D3	R223	D2	R374	C3
C2036	D4	C236	C1	C379	D3	R2011	D4	R225	C2	R375	C3
C2037	D4	C237	C2	C380	D3	R2012	D3	R226	C2	R377	D3
C2038	D4	C238	C2	C381	D3	R2013	D3	R227	C2	R378	D3
C2039	D4	C239	C2	C382	D3	R2014	D3	R228	C2	R379	D3
C204	A1	C242	C2	C383	D3	R2015	D4	R229	C2	R380	D3
C2040	D4	C243	C2	C384	D3	R2016	D4	R230	C2	R382	D3
C2041	D4	C244	C2	CN201	D2	R2017	D4	R231	C2	R383	D3
C2042	D4	C247	C2	CN202	C1	R2018	D4	R232	C2	R384	D3
C2043	C2	C248	C2	D2001	D1	R2019	D4	R233	B3	R385	D3
C2044	C2	C249	C3	D2002	D1	R202	A1	R234	B3	R386	D3
C2045	D4	C250	C3	D2003	D1	R2020	D4	R235	B3	R387	C3
C2046	D4	C251	C3	FB201	B1	R2021	D4	R236	B3	R388	C3
C205	A1	C252	B3	FB202	A2	R2022	D4	R237	B3	R389	C3
C2057	C4	C253	B3	FB203	A2	R2023	D4	R239	B3	R390	C3
C2058	C4	C254	B3	FB204	A2	R2024	D4	R240	B3	R391	D3
C2059	C4	C255	B3	FB207	A4	R2025	D4	R241	B3	R392	D3
C206	A1	C256	B3	FB209	C3	R2026	D4	R242	B3	R393	D3
C2060	C4	C257	B3	FB211	C3	R2027	D4	R243	A2	R394	C1
C2061	C3	C258	B3	FB212	B3	R2028	D4	R244	B1	R395	C1
C2062	C3	C259	B3	FB213	B3	R2029	D4	R245	B1	RA201	A2
C2063	C3	C260	B3	FB215	A2	R203	A1	R246	B1	RA202	B3
C2064	B4	C262	A2	FB216	C1	R2030	D4	R247	B1	RA203	A2
C2065	B4	C263	A2	FB218	D2	R2031	D4	R252	A2	RA204	A1
C2066	B4	C264	A2	FB219	D2	R2032	D4	R253	A2	RA205	A2
C2067	B4	C265	C3	FB220	D2	R2033	D4	R254	A2	RA206	A2
C2068	B4	C266	C3	FB221	D2	R2034	D4	R255	C1	XL201	B3
C207	A1	C267	C3	FB222	D2	R2035	D4	R256	C1	ZD104	B3
C2070	B4	C268	C3	FB223	D2	R2036	D4	R257	A2	ZD201	C4
C2071	B4	C269	C3	FB224	D2	R2037	D4	R258	A2	ZD202	C4
C2072	B4	C270	C3	FB233	A1	R2039	D4	R259	A3	ZD203	B4
C2073	B4	C273	B3	FB235	C1	R204	B1	R261	A3	ZD205	A4
C2074	B4	C274	B3	FB236	B3	R2050	B4	R262	A2	ZD320	C1
C2076	B4	C275	B3	FB237	B3	R2051	C4	R264	A2		
C2077	B4	C276	B3	FB238	C3	R2052	C1	R265	A4		
C2078	B4	C277	B3	FB301	D3	R2054	B1	R267	A4		

PCB Layout Top View



C2024 A2	C235 A3	C4105 C1	C5222 C1	FB203 B4	L213 A3	R222 B3	R369 C2	R470 B1
C101 C4	C236 A3	C4106 A2	C5227 C1	FB204 B4	L215 A4	R223 A3	R370 C2	R471 B1
C102 C4	C237 A3	C4107 A2	C523 A1	FB207 C4	L405 A2	R225 B3	R371 C2	R472 C1
C104 C4	C238 A3	C4108 A2	C5231 C1	FB209 A2	L406 A2	R227 B3	R373 C2	R473 C1
C105 C4	C242 B3	C4109 A2	C5232 C1	FB211 B4	L407 A2	R229 B3	R374 C2	R474 A2
C106 C4	C243 B3	C413 A3	C5233 C1	FB215 B4	L5201 C1	R231 B3	R375 C2	R475 A2
C107 C4	C244 B3	C414 A3	C525 A1	FB216 A3	L5202 C1	R232 B3	R379 C3	R476 A2
C126 B4	C247 B3	C417 A3	C526 A1	FB218 A4	L5301 B1	R233 B4	R380 C3	R5014 C3
C127 B4	C248 B3	C418 A3	C527 A1	FB219 A4	L5302 B2	R234 B4	R382 C3	R5015 C3
C128 C4	C249 B3	C419 A3	C528 C3	FB220 A4	L5401 B1	R236 B3	R383 C3	R503 B1
C129 C4	C250 B4	C4201 A2	C5301 B1	FB221 A4	L5402 C1	R237 B3	R384 C2	R504 A1
C130 C4	C251 B4	C4202 A2	C5302 B1	FB222 A4	L5501 A1	R240 B4	R385 C3	R505 B1
C2001 C4	C252 B4	C4205 B1	C5303 B1	FB223 A4	L5502 A1	R241 B4	R386 C2	R506 B1
C2002 C4	C253 B3	C4206 A2	C5306 B1	FB224 A4	Q101 C4	R243 B4	R387 C3	R507 A1
C2004 C4	C254 B4	C4207 A3	C5307 B1	FB233 B4	Q201 A3	R252 B4	R388 C2	R508 C1
C2007 B3	C255 B3	C4208 A2	C5311 B1	FB235 A3	Q202 A3	R253 B4	R389 C2	R509 C1
C2008 B3	C257 B3	C4209 A2	C5312 B1	FB236 B4	Q40 A2	R254 B4	R390 C3	R510 B1
C2009 B2	C262 B4	C421 A3	C5313 B1	FB237 A3	Q406 A2	R255 B3	R393 C3	R512 A1
C201 A4	C263 B4	C4210 A2	C5314 B1	FB238 A3	Q407 C1	R257 A4	R394 A3	R513 A1
C2010 B3	C264 B4	C422 A3	C5316 C2	FB301 C3	Q410 A2	R258 A4	R395 A3	R514 A1
C2011 B2	C289 A4	C423 A3	C5317 C2	FB302 C3	Q5003 C3	R259 A4	R4001 A2	R515 A1
C2012 B3	C290 A4	C424 A2	C5319 B2	FB303 C3	R101 C4	R261 A4	R4002 A2	R516 A1
C2015 B3	C291 A4	C425 A2	C5320 B1	FB304 C3	R102 C4	R262 A4	R4004 A2	R517 A1
C2016 B3	C292 A4	C426 A2	C5321 B1	FB305 C3	R103 C4	R264 A4	R4005 A2	R518 C2
C2017 B2	C293 A4	C427 A2	C5322 B1	FB306 C3	R104 C4	R265 A4	R4006 A2	R519 C2
C2018 B3	C296 A4	C428 A2	C5327 B1	FB307 B4	R105 C4	R267 A4	R4008 C1	R520 A1
C202 A4	C297 A4	C429 A2	C5331 B1	FB308 B4	R106 C4	R268 A4	R4009 A2	R5201 C1
C2021 B3	C298 A4	C4301 A2	C5332 B1	FB310 B4	R107 C4	R269 A4	R4010 A3	R5202 C1
C2022 B3	C299 A4	C4302 A2	C5333 B1	FB501 B2	R108 C4	R270 A4	R4011 A2	R5203 C1
C2023 B2	C301 C4	C4305 B1	C5401 B1	FB5010C3	R109 C4	R271 A4	R4012 A2	R5204 C1
C2024 B3	C302 C4	C4306 A2	C5402 C1	FB502 B2	R110 C4	R272 A4	R4013 A2	R5205 C1
C2025 B2	C306 C4	C4307 A3	C5403 B1	FB503 C2	R112 C4	R273 A4	R4014 A2	R5208 C1
C2026 B3	C307 C3	C433 A2	C5406 C1	FB504 B2	R113 C4	R275 C4	R4101 A2	R5209 C1
C203 B4	C310 C4	C4401 A3	C5407 B1	FB516 A2	R117 C4	R276 A4	R4102 A2	R521 C3
C2031 B2	C311 C4	C4402 A3	C5411 B1	FB519 A2	R118 C4	R277 A4	R4104 A2	R5210 C1
C2032 B3	C312 C4	C4403 A3	C5412 B1	FB520 B2	R2001 B3	R278 C4	R4105 A2	R5211 C1
C2034 B3	C313 C4	C4405 B1	C5413 B1	FB521 C2	R2002 B3	R280 A4	R4106 A2	R522 C3
C2035 B3	C314 C4	C4407 A3	C5414 C2	FB522 C2	R2003 B2	R281 A4	R4108 C1	R523 C2
C2036 B3	C315 C4	C4408 A3	C5416 C2	FB523 A2	R2004 B3	R289 B4	R4109 A2	R524 C2
C2037 B3	C316 C4	C4409 A3	C5417 C2	FB530 A2	R2005 B2	R290 B4	R4114 A2	R525 C3
C2038 B3	C317 C3	C4501 A3	C5419 B2	FB531 B2	R2006 B3	R291 B4	R4201 A2	R526 C3
C2039 B3	C318 C4	C4502 A3	C5420 B1	FB532 C3	R2007 B2	R293 B2	R4202 A2	R527 C3
C204 B4	C319 B3	C4505 A1	C5421 B1	FB533 A2	R2008 B3	R295 A3	R4204 A2	R5301 B1
C2040 B3	C330 B4	C4506 A3	C5422 B1	FB534 B2	R2011 B2	R296 A3	R4205 A2	R5302 B1
C2045 B3	C331 B4	C4507 A3	C5427 B1	FB535 C3	R2012 B3	R297 A2	R4206 A2	R5303 B1
C2046 B3	C336 B3	C4511 A3	C550 C4	IC101 C4	R2013 B2	R302 C4	R4208 B1	R5304 B1
C205 B4	C337 B3	C4512 A3	C5501 A1	IC201 B4	R2014 B3	R303 C4	R4209 A2	R5305 B1
C2058 C3	C340 C4	C464 A1	C5502 A1	IC202 B4	R2015 B3	R305 B4	R4214 A2	R5308 B1
C2060 C3	C347 C3	C465 A1	C5503 A1	IC203 A4	R2016 B3	R306 B4	R425 A3	R5309 B1
C2061 B3	C348 C4	C501 B2	C5506 A1	IC204 B4	R2017 B2	R307 B4	R426 A3	R5310 B1
C2062 B3	C350 C4	C502 B2	C5507 A1	IC205 B4	R2018 B3	R308 C3	R427 A3	R5311 B1
C2063 B3	C351 C3	C5022 C3	C551 C2	IC207 A4	R2019 B2	R309 C3	R428 A3	R5401 C1
C2064 B3	C352 C3	C5023 C3	C5511 A1	IC209 C3	R202 B4	R310 C4	R429 A3	R5402 C1
C2065 B3	C353 C3	C503 B2	C5512 A1	IC210 C3	R2020 B3	R311 C4	R430 A3	R5403 B1
C2066 B3	C354 C3	C504 B2	C5513 A1	IC211 B3	R2021 B2	R312 C4	R4301 A2	R5404 C1
C2067 A3	C355 C2	C505 C1	C5514 A2	IC212 B3	R2022 B3	R313 C3	R4302 A2	R5405 C1
C2068 A3	C356 C2	C506 B1	C5516 C3	IC213 B3	R2023 B2	R314 C3	R4304 A2	R5408 C1
C2071 A3	C357 C2	C507 B1	C5517 C2	IC217 B3	R2024 B3	R315 C3	R4305 A2	R5409 C1
C2072 A2	C358 C2	C508 A1	C5519 A2	IC30 C4	R2025 B2	R316 B3	R4306 A2	R5501 A1
C2073 B2	C361 C3	C509 C2	C5520 A1	IC303 A4	R2026 B3	R317 C4	R4308 B1	R5502 A1
C2074 B2	C362 C3	C510 B2	C5521 A1	IC304 A4	R2027 B3	R318 C4	R4309 A3	R5503 A1
C2076 A3	C363 C3	C511 B2	C5522 A1	IC305 C2	R2028 B3	R321 C4	R4314 A3	R5504 B1
C2077 B2	C364 C3	C512 A2	C5527 A1	IC306 C2	R2029 B3	R322 C4	R433 A3	R5505 B1
C2078 B2	C365 C3	C513 A2	CF501 A1	IC307 C2	R2030 B3	R333 B4	R434 A3	R5508 A1
C2079 B3	C366 C3	C514 B2	CF502 A1	IC309 B3	R2031 B3	R334 B3	R435 A3	R5509 A1
C208 B4	C367 C2	C515 B2	CN101 B4	IC4001 A2	R2032 B3	R335 B3	R436 A3	RA201 B4
C2080 A3	C368 C2	C516 C2	CN201 A4	IC4002 A2	R2033 B3	R341 C3	R437 A2	RA202 B4
C2081 A3	C369 C2	C517 A1	CN202 A3	IC4003 A3	R2034 B3	R342 C4	R438 A2	RA203 B4
C2082 A2	C370 C2	C519 A1	CN302 A4	IC4004 A3	R2037 B3	R343 C4	R4401 A3	RA204 B4
C2084 A2	C375 C4	C520 A1	CN401 A2	IC4005 A2	R2039 B3	R344 C3	R4402 A3	RA205 B4
C2085 A2	C376 C3	C5201 C1	CN5003	IC4006 A2	R204 A3	R345 C3	R4404 A3	RA206 B4
C2089 A3	C377 C3	C5202 C1	C3	IC402 A3	R2050 C3	R351 C3	R4405 A3	RB501 B2
C209 B4	C378 C3	C5203 C1	D403 A3	IC403 A2	R2051 C3	R352 C3	R4406 A2	RB901 A1
C2091 A3	C379 C3	C5204 C1	D408 A3	IC501 A1	R2063 B4	R353 C3	R4408 B1	XL201 B4
C210 A4	C380 C2	C5206 C1	D409 A3	IC502 A1	R2064 B4	R354 C3	R4409 A3	ZD203 B2
C2104 A4	C381 C3	C5207 C1	D410 A3	IC503 C2	R208 A3	R355 C2	R4414 A3	ZD205 A4
C2115 B4	C382 C2	C521 A1	D416 A2	IC5201 C1	R2080 A3	R356 C2	R4501 A3	ZD401 A2
C212 A3	C4001 A2	C5211 C1	D5014 C3	IC5301 B1	R2081 A3	R357 C2	R4502 A3	ZD403 C1
C213 A3	C4002 A2	C5212 C1	FB101 B4	IC5401 C1	R2082 A3	R358 C2	R4504 A3	
C214 A4	C4004 A2	C5213 C1	FB102 B4	IC5501 A1	R210 A3	R359 C2	R4506 A2	
C217 A3	C4005 C1	C5214 C1	FB103 B4	JK301 C4	R212 A3	R360 C2	R4508 A1	
C218 A3	C4006 A2	C5216 C2	FB104 B4	JK302 C4	R216 A3	R361 C2	R4510 A3	
C223 A3	C4007 A2	C5217 C2	FB105 B4	JK303 C4	R217 B3	R362 C2	R452 A2	
C230 A3	C4012 A2	C5219 C2	FB106 B4	JK501 C1	R218 B3	R365 C3	R461 C1	
C231 A3	C4101 A2	C522 A1	FB107 C4	JK502 C2	R219 B3	R366 C3	R465 C1	
C232 A3	C4102 A2	C5220 C1	FB201 A3	L201 A4	R220 B3	R367 C3	R468 C1	
C233 B3	C4104 A2	C5221 C1	FB202 A3	L203 A3	R221 B3	R368 C3	R469 A1	

PCB Layout Bottom View



C0201	A2	C288	B1	C567	C3	R4307	A3
C0202	A2	C308	C1	C568	C1	R4407	A2
C0205	A3	C309	C1	D2001	B3	R450	A3
C0207	A2	C349	C1	D2002	B3	R4507	A2
C0270	B2	C359	C2	D2003	B3	R453	A3
C0271	A2	C360	C2	D5006	C3	R454	A3
C122	B1	C371	C2	D5007	C3	R5004	C2
C123	B1	C372	C2	D5008	C2	R5005	C2
C124	B1	C383	C2	D5013	C3	R5006	C2
C125	B1	C384	C2	FB212	B2	R5007	C3
C143	B1	C4003	A3	FB213	B2	R5008	C3
C144	B1	C4103	A3	FB309	C1	R501	B3
C2003	C1	C4110	A3	IC218	B3	R502	B3
C2005	B2	C420	A2	L205	B2	R5206	C3
C2006	B2	C4203	A3	L212	B2	R5207	C3
C2013	B2	C4204	A3	L214	A2	R5306	B4
C2014	B2	C430	A3	Q5001	C2	R5307	B4
C2019	B2	C4303	A3	Q5002	C2	R5406	C4
C2020	B2	C4304	A3	R2009	B2	R5407	B4
C2027	B2	C431	A3	R201	B1	R5506	A4
C2028	B2	C432	A3	R2010	B2	R5507	A4
C2030	B2	C4406	A2	R203	A1	ZD101	C1
C2033	B2	C4410	A2	R2035	B2	ZD104	C1
C2041	B2	C4503	A2	R2036	B2	ZD201	C2
C2042	B2	C5021	C2	R2052	A1	ZD202	C2
C2043	C2	C516	A1	R2054	A1	ZD301	C1
C2044	C2	C5205	C3	R2055	B1	ZD302	C1
C2057	C2	C5208	C3	R2057	B1	ZD320	B2
C2059	C2	C5209	C3	R2058	B1	ZD321	C1
C206	B1	C5210	C3	R2059	B2	ZD4001	A3
C207	B1	C5215	C3	R2060	B2	ZD5001	C2
C2070	B2	C5218	C3	R2061	B1	ZD501	A4
C2090	A2	C5223	C3	R2062	B1	ZD502	A3
C2092	A2	C5224	C3	R2069	A1	ZD503	C2
C2094	A2	C5225	C3	R207	A1		
C2095	A1	C5228	C4	R2070	A1		
C2096	A1	C5229	C4	R2083	A2		
C2097	A1	C5304	B4	R2100	B3		
C2098	A1	C5305	B4	R2101	B3		
C2099	A1	C5308	B4	R2105	B3		
C2101	A1	C5309	B4	R2106	B3		
C2102	A1	C5310	B4	R2107	B3		
C2103	A1	C5315	B3	R2108	B3		
C2117	B1	C5318	B3	R2109	B2		
C2120	B3	C5323	B4	R2113	B2		
C2121	B3	C5324	B4	R2114	B3		
C2122	B3	C5325	B4	R2115	B2		
C2123	B3	C5328	B4	R2116	B3		
C2124	B3	C5329	B4	R2117	C3		
C2125	B2	C5404	C4	R2118	C2		
C2126	B3	C5405	C4	R2119	C2		
C219	A2	C5408	C4	R2120	C2		
C220	B2	C5409	B4	R2121	C2		
C234	B2	C5410	B4	R213	B1		
C239	B2	C5415	C3	R214	B1		
C256	B2	C5418	B3	R215	B1		
C258	B2	C5423	B4	R226	B2		
C259	B1	C5424	B4	R228	B2		
C260	B1	C5425	B4	R230	B2		
C265	B2	C5428	B4	R235	B2		
C266	B2	C5429	B4	R239	B2		
C267	B2	C5504	A4	R242	B1		
C268	B2	C5505	A4	R244	B1		
C269	B2	C5508	A4	R245	B1		
C270	B2	C5509	A4	R246	B1		
C273	B1	C5510	A4	R247	B1		
C274	A1	C5515	A3	R256	B2		
C275	A1	C5518	A4	R274	C1		
C276	B2	C5523	A4	R294	B3		
C277	B1	C5524	A4	R298	A2		
C278	B1	C5525	A4	R299	A2		
C279	B1	C5528	A4	R363	C2		
C280	B1	C5529	A4	R364	C2		
C281	B1	C560	C2	R377	C2		
C282	A1	C561	A1	R378	C2		
C283	A1	C562	B1	R391	C2		
C284	A1	C563	B3	R392	C2		
C285	A1	C564	C1	R4007	A3		
C286	A2	C565	A3	R4107	A3		
C287	B2	C566	B3	R4207	A3		

Voltage

IC101(4558 SOP8)																				
Pin NO	1	2	3	4	5	6	7	8												
Voltage	0.02	0.03	0.01	-10.5	0.04	0.05	0.07	12.5												
IC103(SAA6581T)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Voltage	2.03	2.61	2.02	2.01	4.6	0	2.06	2.05	4.5	0	0	4.5	1.6	2.2	4.5	2.2				
IC201(ES8380FAC)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	3.2	1.6	1.1	0	1.7	0.3	0.4	0	0	3.2	0.1	0.1	0	0.1	0	0	2.7	0	3	3.1
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Voltage	3.2	3	0	3.2	3.3	0	1	1.1	0	0.9	1	1.3	1	0.9	0	3.2	1	1	1	0.8
Pin NO	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Voltage	0.8	1	1.1	1.3	0	3.2	0	2.1	1.3	1.8	2.5	0	3.2	1	1.6	1.8	0	0	3.2	3.2
Pin NO	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Voltage	3.2	0	0	1.1	0	1.4	1.9	1.5	1.7	1.7	1.5	0	3.2	1.6	0	1.6	3.2	3.2	1.6	1.4
Pin NO	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Voltage	0	0	1.2	0	1.8	0	0	1.1	0	3.2	0	1	0	1.7	1.6	0	0	0	1.6	0.5
Pin NO	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Voltage	0.8	0.8	0	3.2	0	0	3.2	1.3	0	0	3.2	0	0.8	0.8	0.8	1.6	1.7	1.7	3.4	
Pin NO	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
Voltage	0	0	1.6	1.7	3.2	3.8	1.4	0	1.5	3.2	0	0	0	3.2	1.4	0	0	0	3.2	0
Pin NO	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
Voltage	0	1.4	0	1.6	0	1.5	2.7	1.1	3.2	2.1	1.9	0.2	1.2	1.2	1	3.1	0	1.5	1.5	1.5
Pin NO	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
Voltage	2	2	2	2	2	2	1.9	1.9	1.5	3.2	1.1	1.6	1.5	1.6	0	2.3	3.2	0	1.4	3.2
Pin NO	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
Voltage	0	3.6	3.6	1.8	1.7	1.6	0	3.2	0	3.2	0	0	0	0	1.4	4	3.7	3.9	3.9	3.6
Pin NO	201	202	203	204	205	206	207	208												
Voltage	3.9	3.2	3.2	3.9	1.6	1.7	1.4	0												
IC202(EW484M1644VTA-6F)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	3.4	0.8	3.4	1.03	1.22	0	0.9	0.9	3.4	0.9	1	0	1.08	3.4	0	3.4	3.47	3.46	3.4	0
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Voltage	0	0	0	0	0	3.4	3.4	0	3.4	3.4	3.4	3.4	0	0	0	0	3.4	1.85	0	0
Pin NO	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
Voltage	0	0.09	3.4	0.12	0	0	0.1	0.1	3.4	0.09	0	0	0.09	0						
IC203(KH29LV800BTC-70G0)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	0.5	0.05	0.1	0.02	0.04	0.01	0.08	0.01	0	0	0.1	0.08	3.3	3.3	0.5	0.06	0.01	0.01	0.02	0.03
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Voltage	0.08	0.09	0.08	0	0	0	0	0	0.1	0.5	0.4	0.08	0.01	0.07	0.09	0.02	3.3	0.08	0.09	0.5
Pin NO	41	42	43	44	45	46	47	48												
Voltage	0.04	0.07	0.08	0.09	0.07	0.01	0.08	0.09												
IC204(TU24C04CS2BF)																				
Pin NO	1	2	3	4	5	6	7	8												
Voltage	0	0	0	0	3.3	3.3	0	3.3												
IC205(STL8110GCL300)																				
Pin NO	1	2	3																	
Voltage	3.3	0	3.3																	
IC207(SN74HC374PW)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	0	0	0.5	1.16	0	0	1.09	1.2	0	0	3.4	5	1.07	0	5.12	5.1	1.3	1.2	5	5.1
IC209(CD4053BM96)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Voltage	0	0	0	0	0	0	-5.2	0	0	0	0	0	0	0	0	5.07				
IC211(CO4558A)																				
Pin NO	1	2	3	4	5	6	7	8												
Voltage	0.04	0.02	0.03	-10.5	0.01	0.08	0.09	12.3												
IC212(4558 SOP8)																				
Pin NO	1	2	3	4	5	6	7	8												
Voltage	0	0.04	0	-10.5	0	0.09	0.08	12.3												
IC213(CO4558A)																				
Pin NO	1	2	3	4	5	6	7	8												
Voltage	0.07	0.01	0.03	-10.5	0.04	0.05	0	12.5												
IC217(NJW1150M)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	0	7.8	5	0	0	0	0	0	0.1	0	0	0	0.5	0.07	0.04	3.3	3.3	0.1	0.2	0.03
Pin NO	21	22	23	24	25	26	27	28	29	30										
Voltage	0	0	0.1	0.8	0	0.2	0	0	0.9	-7.8										
IC218(4558 SOP8)																				
Pin NO	1	2	3	4	5	6	7	8												
Voltage	0.01	0.02	0.03	-10.5	0.04	0.05	0.08	12.4												
IC301(4052L-S16-R)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Voltage	0	0	0	0	0	0	-5	0	0	0	0	0	0	0	0	5.04				
IC303(SN74HCU04DR)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
Voltage	0	0	2.1	2.2	2.08	0	0	0	0	2.09	2.2	0.1	0	0						

IC5201(TDA8920BTH)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	-23.8	0	23.6	0	0	5	2.4	0	0	23.7	0	-23.5	-16	24	11.3	0	-24	-11.9	-23.7	-23.8
Pin NO	21	22	23	24																
Voltage	0	11.2	24	-23.8																
IC5301(TDA8920BTH)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	-23.8	0	23.6	0	0	5	2.4	0	0	23.7	0	-23.5	-16	24	11.3	0	-24	-11.9	-23.7	-23.8
Pin NO	21	22	23	24																
Voltage	0	11.2	24	-23.8																
IC5401(TDA8920BTH)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	-23.8	0	23.6	0	0	5	2.4	0	0	23.7	0	-23.5	-16	24	11.3	0	-24	-11.9	-23.7	-23.8
Pin NO	21	22	23	24																
Voltage	0	11.2	24	-23.8																
IC5501(TDA8920BTH)																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	-23.8	0	23.6	0	0	5	2.4	0	0	23.7	0	-23.5	-16	24	11.3	0	-24	-11.9	-23.7	-23.8
Pin NO	21	22	23	24																
Voltage	0	11.2	24	-23.8																

Q101			
Pin NO	b	c	e
Voltage	8.4	12.2	9.1

Q102			
Pin NO	b	c	e
Voltage	1.3	0.7	3.3

Q103			
Pin NO	b	c	e
Voltage	0	4.1	3.3

Q201			
Pin NO	b	c	e
Voltage	3.43	5.13	4.1

POWER BOARD

TABLE OF CONTENTS

Voltage 7-1

Circuit Diagram..... 7-2

PCB Layout Top View 7-3

PCB Layout Bottom View 7-4

VOLTAGE

IC901(AP3843GMTR-E1)																		
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Voltage	4.9	4.9	2.6	0	1.7	3.4	0	12.1	2.1	2	12.1	12.1	4.9	4.8	2.4	0		

IC902(AP3843GMTR-E1)																		
Pin NO	1	2	3	4	5	6	7	8										
Voltage	3.18	0	0.5	2.17	0	1.4	10.9	5.15										

IC903																		
Pin NO	1	2	3	4														
Voltage	4.9	4.9	0	0														

IC904																		
Pin NO	1	2	3	4														
Voltage	4.9	4.9	0	0														

IC905(AZ431AZ-A)																		
Pin NO	1	2	3															
Voltage	4	0	4.03															

IC906(TL431 TO-92)																		
Pin NO	1	2	3															
Voltage																		

Q901			
Pin NO	b	c	e
Voltage	145	295	145

Q902			
Pin NO	b	c	e
Voltage	2.6	0	0.8

Q903			
Pin NO	b	c	e
Voltage	1.85	0	1.79

Q904			
Pin NO	b	c	e
Voltage	0	3.4	0

Q905			
Pin NO	b	c	e
Voltage	0.5	0	0

Q906			
Pin NO	b	c	e
Voltage	42.1	0	0

Q907			
Pin NO	b	c	e
Voltage	0	0	0

Q908			
Pin NO	b	c	e
Voltage	0	4	0

Q909			
Pin NO	b	c	e
Voltage	145	0	0

Q910			
Pin NO	b	c	e
Voltage	1.7	0	1.7

Q911			
Pin NO	b	c	e
Voltage	1.7	0	1.7

Q912			
Pin NO	b	c	e
Voltage	298	0	0

Q913			
Pin NO	b	c	e
Voltage	2.4	0	70.6

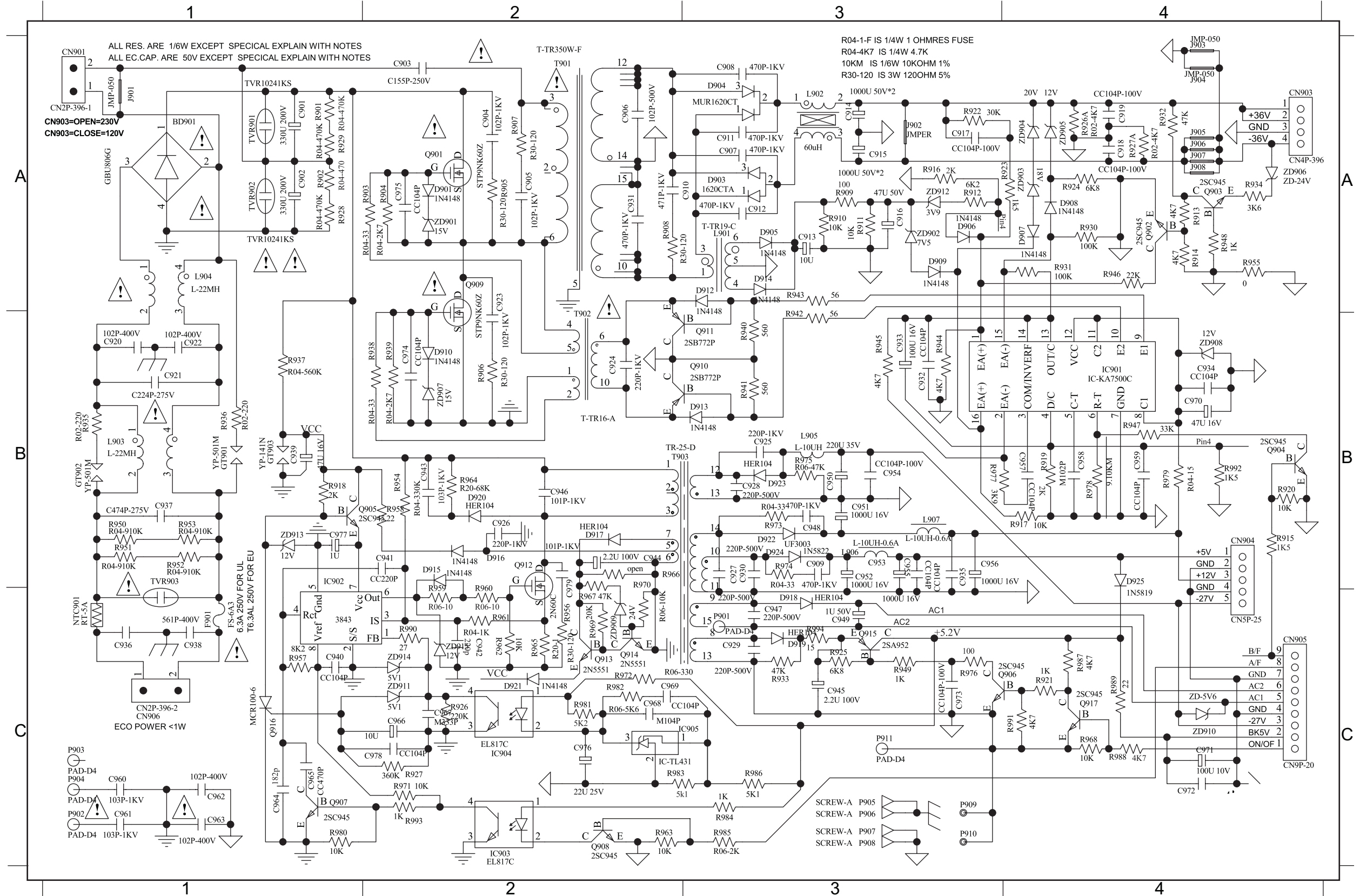
Q914			
Pin NO	b	c	e
Voltage	0	0	0

Q915			
Pin NO	b	c	e
Voltage	42.1	4.9	42.1

Q916			
Pin NO	b	c	e
Voltage	0	0	0

CIRCUIT DIAGRAM

BD901	A1	C913	A3	C925	B3	C938	C1	C951	B3	C963	C1	C977	B1	D908	A4	D921	C2	IC905	C2	Q904	B4	Q916	C1	R911	A3	R923	A4	R934	A4	R946	A4	R959	C2	R971	C2	R983	C2	T902	A2	ZD908	B4		
C901	A1	C914	A3	C926	B2	C939	B1	C952	B3	C964	C1	C978	C2	D909	A3	D922	B3	L901	A3	Q905	B2	Q917	C4	R912	A3	R924	A4	R935	B1	R947	B4	R960	C2	R972	C2	R984	C3	T903	B2	ZD909	C2		
C902	A1	C915	A3	C927	B3	C940	C1	C953	B3	C965	C1	CN901	A1	D910	B2	D923	B3	L902	A3	Q906	C4	R901	A1	R913	A4	R925	C3	R936	B1	R948	A4	R961	C2	R973	B3	R985	C3	TVR901A1	ZD910	C4			
C903	A2	C916	A3	C928	B3	C941	B2	C954	B3	C966	C2	CN903	A4	D912	A3	D924	B3	L903	B1	Q907	C1	R902	A1	R914	A4	R926A	A4	R937	B1	R949	C3	R962	C2	R974	B3	R986	C3	TVR902A1	ZD911	C2			
C904	A2	C917	A3	C929	C3	C942	C2	C955	B3	C967	C2	CN904	B4	D913	B3	D925	B4	L904	A1	Q908	C2	R903	A2	R915	B4	R927	C2	R938	B2	R950	B1	R963	C2	R975	B3	R987	C4	TVR903B1	ZD912	A3			
C906	A2	C918	A4	C930	B3	C943	B2	C956	B3	C968	C2	CN905	C4	D914	A3	F901	C1	L905	B3	Q909	A2	R904	A2	R916	A3	R927A	A4	R939	B2	R951	B1	R964	B2	R976	C3	R988	C4	ZD901	A2	ZD913	B1		
C907	A3	C919	A4	C931	A2	C944	B2	C957	B4	C969	C2	CN906	C1	D915	B2	GT901	B1	L906	B3	Q910	B3	R905	A2	R917	B4	R928	A1	R940	B3	R952	B1	R965	C2	R977	B4	R989	C4	ZD902	A3	ZD914	C2		
C908	A3	C920	B1	C932	B3	C945	C3	C958	B4	C970	B4	D901	A2	D916	B2	GT902	B1	L907	B3	Q911	B3	R906	B2	R918	B1	R929	A1	R941	B3	R953	B1	R966	B2	R978	B4	R990	C2	ZD903	A4				
C909	B3	C921	B1	C933	B3	C946	B2	C959	B4	C971	C4	D903	A3	D917	B2	IC901C1		NTC901C1		Q912	B2	R907	A2	R919	B4	R930	A4	R942	B3	R954	B2	R967	B2	R979	B4	R991	C4	ZD904	A4				
C910	A2	C922	B1	C934	B4	C948	B3	C960	C1	C972	C4	D904	A3	D918	C3	IC902	C1	Q901	A2	Q913	C2	R908	A2	R920	B4	R931	A4	R943	A3	R955	A4	R968	C4	R980	C1	R993	C2	ZD905	A4				
C911	A3	C923	A2	C935	B3	C949	C3	C961	C1	C973	C3	D905	A3	D919	C3	IC903	C2	Q902	A4	Q914	C2	R909	A3	R921	C4	R932	A4	R944	B3	R957	C1	R969	C2	R981	C2	R994	C3	ZD906	A4				
C912	A3	C924	B2	C937	B1	C950	B3	C962	C1	C976	C2	D907	A4	D920	B2	IC904	C2	Q903	A4	Q915	C3	R910	A3	R922	A3	R933	C3	R945	B3	R958	B2	R970	B2	R982	C2	T901	A2	ZD907	B2				

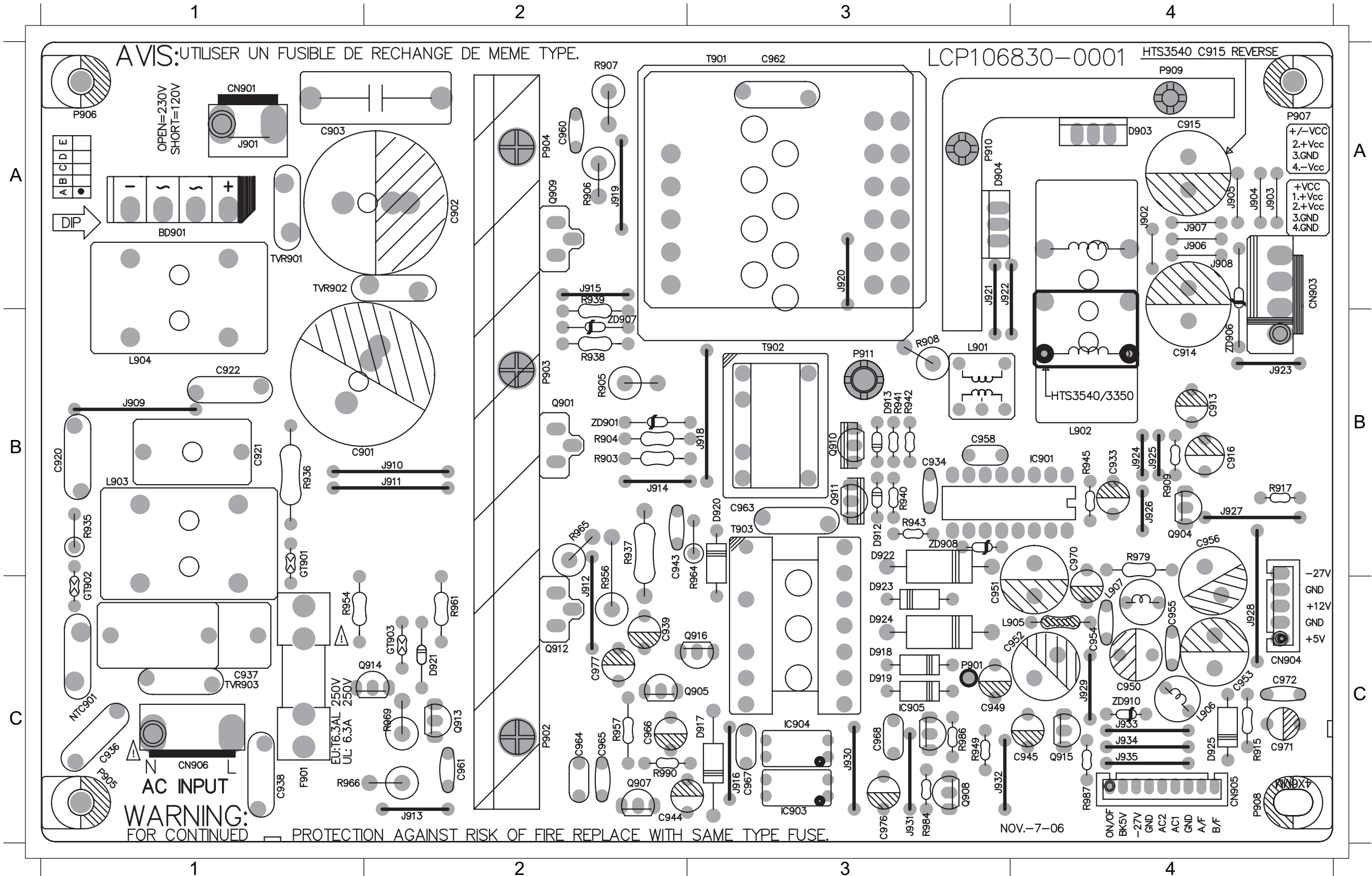


PCB LAYOUT - TOP VIEW

7 - 3

7 - 3

BD901	A1	C920	B1	C943	B2	C954	C4	C964	C2	C976	C3	D904	A3	D922	B3	IC903	C3	J910	B2	J920	A3	J928	C4	L901	B3	Q901	B2	Q912	C2	R906	A2	R937	B2	R949	C3	R979	B4	TVR901	A1
C901	B1	C921	B1	C944	C2	C955	C4	C965	C2	C977	C2	D912	B3	D923	C3	IC904	C3	J911	B2	J921	A3	J929	C4	L902	B4	Q904	B4	Q913	C2	R907	A2	R938	B2	R954	C1	R984	C3	TVR902	A2
C902	A2	C922	B1	C945	C4	C956	B4	C966	C2	CN901	A1	D913	B3	D924	C3	IC905	C3	J912	C2	J922	A4	J930	C3	L903	B1	Q905	C3	Q914	C2	R908	B3	R939	A2	R957	C2	R986	C3	TVR903	C1
C903	A1	C933	B4	C949	C3	C958	B3	C967	C3	CN903	A4	D917	C3	D925	C4	J905	A4	J913	C2	J923	B4	J931	C3	L904	B1	Q907	C2	Q915	C4	R909	B4	R940	B3	R961	C2	R987	C4	ZD901	B2
C913	B4	C934	B3	C950	C4	C960	A2	C968	C3	CN904	C4	D918	C3	F901	C1	J906	A4	J914	B2	J924	B4	J932	C4	L905	C4	Q908	C3	Q916	C3	R915	C4	R941	B3	R964	B3	R990	C2	ZD906	A4
C914	B4	C937	C1	C951	C4	C961	C2	C970	B4	CN905	C4	D919	C3	GT901	B1	J907	A4	J915	A2	J925	B4	J933	C4	L906	C4	Q909	A2	R903	B2	R917	B4	R942	B3	R965	B2	T901	A3	ZD907	B3
C915	A4	C938	C1	C952	C4	C962	A3	C971	C4	CN906	C1	D920	B3	GT902	C1	J908	A4	J916	C3	J926	B4	J934	C4	L907	C4	Q910	B3	R904	B2	R935	B1	R943	B3	R966	C2	T902	B3	ZD908	B3
C916	B4	C939	C2	C953	C4	C963	B3	C972	C4	D903	A4	D921	C2	IC901	B4	J909	B1	J918	B3	J927	B4	J935	C4	NTC901	C1	Q911	B3	R905	B2	R936	B1	R945	B4	R969	C2	T903	B3	ZD910	C4

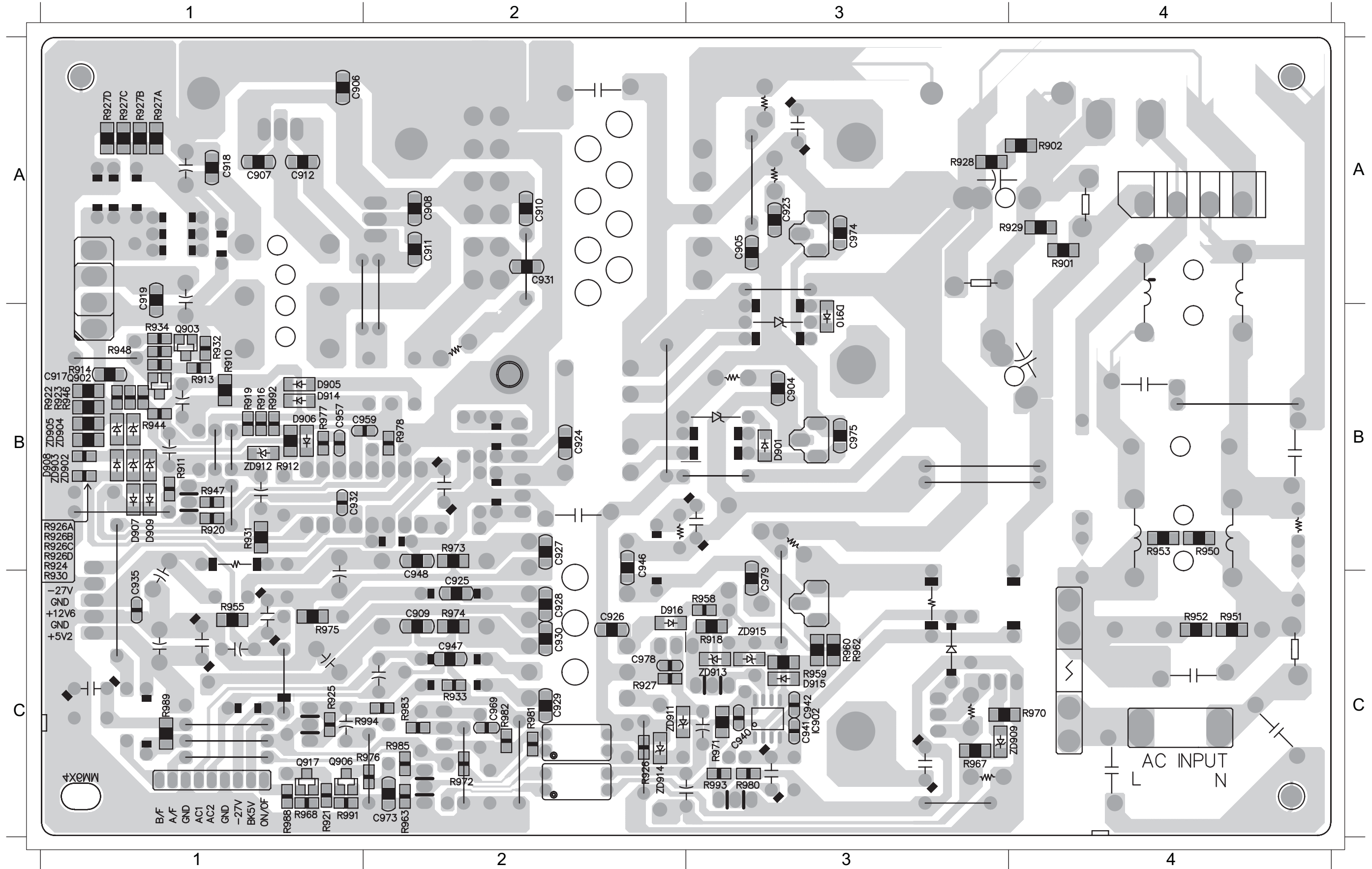


PCB LAYOUT - BOTTOM VIEW

7 - 4

7 - 4

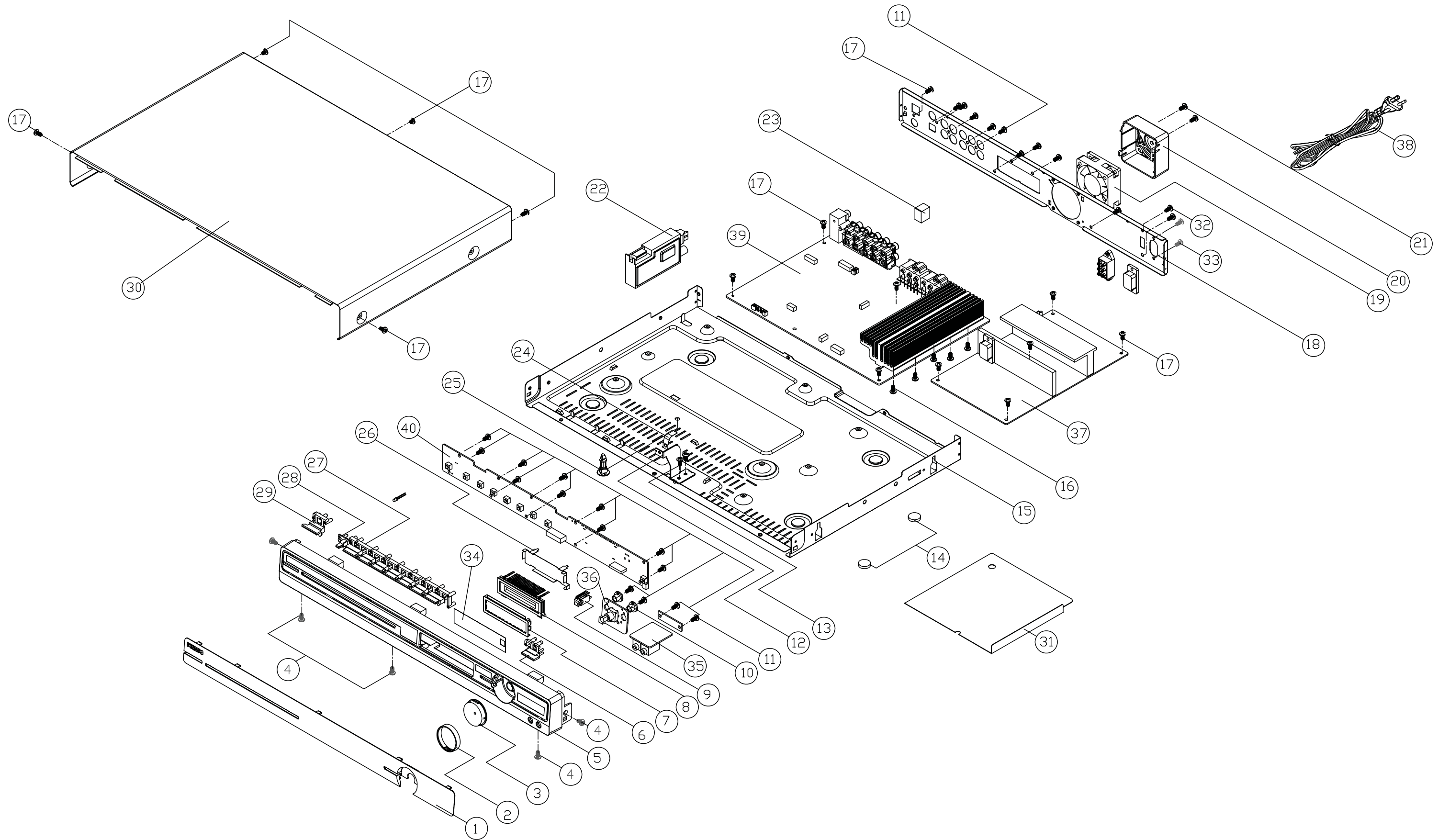
C906	A1	R927D	A1	R902	A4	D908	B1	R913	B1	R926A	B1	R944	B1	ZD912	B1	D901	B3	R925	C1	C909	C2	C978	C2	R981	C2	C942	C3	R967	C3	R952	C4
C907	A1	C908	A2	R929	A4	D909	B1	R914	B1	R926B	B1	R946	B1	C924	B2	D910	B3	R955	C1	C925	C2	D916	C2	R982	C2	D915	C3	R970	C3		
C912	A1	C910	A2	C917	B1	D914	B1	R916	B1	R926C	B1	R947	B1	C927	B2	R950	B4	R968	C1	C926	C2	R927	C2	R983	C2	IC902	C3	R971	C3		
C918	A1	C911	A2	C932	B1	Q902	B1	R919	B1	R926D	B1	R948	B1	C946	B2	R953	B4	R975	C1	C928	C2	R933	C2	R985	C2	R918	C3	R980	C3		
C919	A1	C931	A2	C957	B1	Q903	B1	R920	B1	R930	B1	ZD902	B1	C948	B2	C935	C1	R988	C1	C929	C2	R963	C2	R958	C3	R958	C3	R993	C3		
R927A	A1	C923	A3	C959	B1	R910	B1	R922	B1	R931	B1	ZD903	B1	R973	B2	Q906	C1	R989	C1	C930	C2	R972	C2	ZD914	C2	R959	C3	ZD909	C3		
R927B	A1	R928	A3	D905	B1	R911	B1	R923	B1	R932	B1	ZD904	B1	R978	B2	Q917	C1	R991	C1	C969	C2	R974	C2	C940	C3	R960	C3	ZD913	C3		
R927C	A1	R901	A4	D907	B1	R912	B1	R924	B1	R934	B1	ZD905	B1	C904	B3	R921	C1	R994	C1	C973	C2	R976	C2	C941	C3	R962	C3	R951	C4		



Mechanical Exploded View

9 - 1

9 - 1



Loc.	Part No.	Description
1	996510003624	DISPLAY LENS
2	996510001609	VOL RING
3	996510001610	VOL KNOB
5	996510001611	FRONT CAB
6	996510001612	SOURCE BUTTON
10	--	SCREW HOLDER
14	996500036124	RUBBER FOOT
19	996500042571	FAN
20	--	FAN COVER
22	996510001690	TUNER PACK
27	996510001616	FUNCTION BUTTON
28	996510001617	STANDBY LENS
29	996510001618	STANDBY BUTTON
31	996510001619	POWER PVC
34	996510001613	VFD FILTE
35	996510001604	PHONE PCB
36	996510001606	VOL PCB
37	996510003622	POWER PCB
38	996510003623	POWER CORD
39	996510003621	MAIN PCB
40	996510001602	CONTROL PCB
RC	996510001620	REMOTE CONTROL
FM	996500023583	FM ANTENNA
AM	996510001621	LOOP ANT
Stereo	996510001598	STEREO CABLE
Coaxial	996510003625	RCA CAE
Audio	996500023267	RCA CABLE
CN101	996510001623	FFC CABLE 10P 60MM

Speaker

SPKC	996510003626	SPEAKER BOX -CENTER
RFC	996510001599	RUBBER FOOT -CENTER
SPKFL	996510003627	SPEAKER BOX -FRONT LEFT
SPKFR	996510003628	SPEAKER BOX - FRONT RIGHT
SPKRL	996510003629	SPEAKER BOX- REAR LEFT
SPKRR	996510003630	SPEAKER BOX- REAR RIGHT
RFF	996510001600	RUBBER FOOT-FRONT
RFR	996510001601	RUBBER FOOT-REAR
SUBW	996510003631	SUBWOOFER
RFS	996500028375	RUBBER FOOT -SUB