

Service
Service
Service **Second Generation**



Service Manual

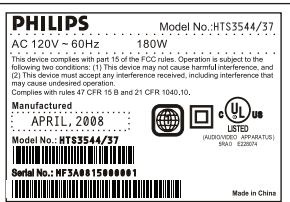


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This service manual is for HTS3544/37 Second Generation model, which is different from the previous generation HTS3544/37 models.

For Second Generation model the serial number begin with MF3AXXXXXXXXXXX. Refer to the rating label illustration at right.



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Published by LM0827 Service Audio Printed in The Netherlands Subject to modification

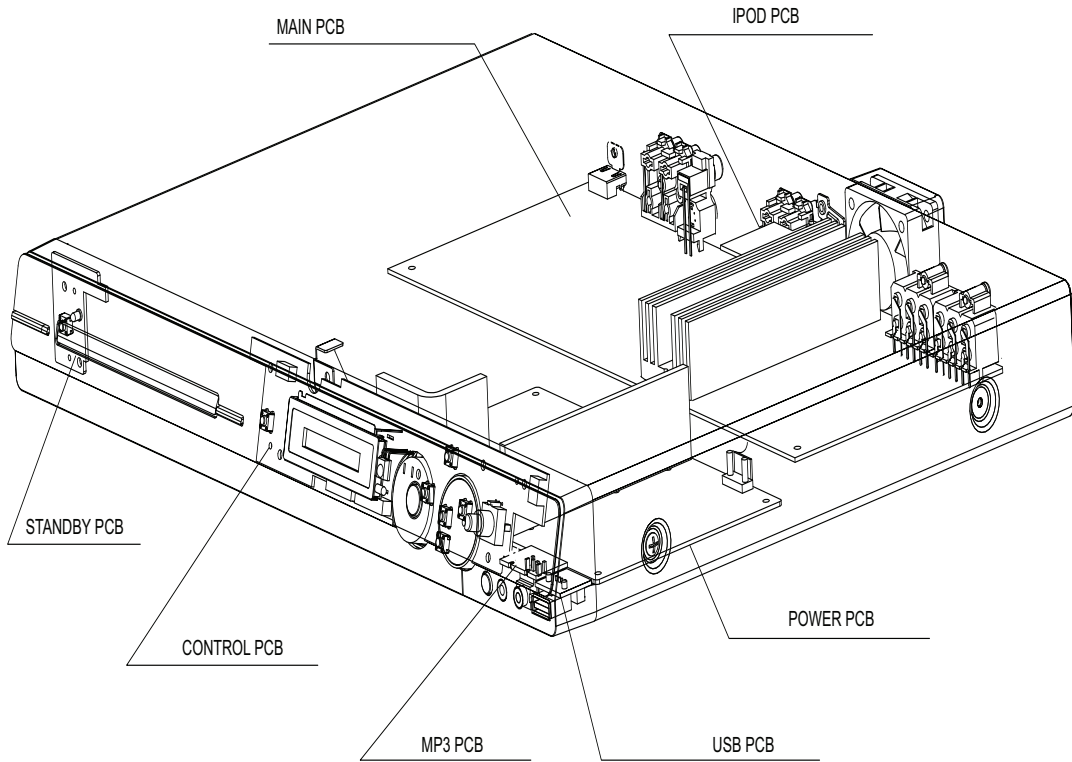
GB 3139 785 34340

Version 1.0



PHILIPS

LOCATION OF PCB BOARDS



VERSION VARIATION:

Type/Versions	HTS3544
Features	/37
Output Power - 1000W	X
Voltage (120V)	X
TV In	X

SERVICE SCENARIO MATRIX:

Type/Versions	HTS3544
Board in used	/37
Main Board	Bd
Power Board	Bd
CONTROL+USB+PHONE JACK+STANDBY+BKT Board	Bd
Ipod Board	Bd

*Bd = Board Level Repair

SPECIFICATIONS

AMPLIFIER

Total output power:	
- Home Theater mode	1000 W
- FTC* output power	510 W
Frequency Response	180 Hz – 14 kHz / ± 3 dB
Signal-to-Noise Ratio.....	> 60 dB (A-weighted)
Input Sensitivity	
- AUX In.....	500 mV
- TV In.....	250 mV
- MP3 Line-In.....	500 mV
* (1% THD 1kHz)	

RADIO

Tuning Range	FM 87.5–108 MHz (100kHz)
.....	AM 530–1700 kHz (10kHz)
.....	26 dB Quieting
Sensitivity	FM 22 dBf, AM 5000 μ V/m
IF Rejection Ratio	FM 60 dB, AM 24 dB
Signal-to-Noise Ratio.....	FM 50 dB, AM 30 dB
AM Suppression Ratio.....	FM 30 dB
Harmonic Distortion.....	FM Mono 3%
.....	FM Stereo 3%
.....	AM 5%
Frequency Response	FM 180 Hz–10 kHz / ± 6 dB
Stereo Separation.....	FM 26 dB (1 kHz)
Stereo Threshold.....	FM 23.5 dB

DISC

Laser Type.....	Semiconductor
Disc Diametre.....	12cm / 8cm
Video Decoding	MPEG-1 / MPEG-2 /
.....	/ DivX 3/4/5/6, Ultra
Video DAC.....	12 Bits
Signal System.....	NTSC / Multi
Video Format.....	4:3 / 16:9
Video	S/N 56 dB
Composite Video	
Output.....	1.0 Vp-p, 75 Ω
S-Video Output.....	Y - 1.0 Vp-p, 75 Ω
.....	C - 0.286 Vp-p, 75 Ω
Audio DAC.....	24 Bits / 96 kHz
Frequency Response	4 Hz–20 kHz (44.1 kHz)
.....	4 Hz–22 kHz (48 kHz)
.....	4 Hz–44 kHz (96 kHz)
PCM.....	IEC 60958
Dolby Digital	IEC 60958, IEC 61937
DTS	IEC 60958, IEC 61937

MAIN UNIT

Power Supply Rating	120 V; 60 Hz
Power Consumption	180 W
Low Standby power.....	< 1 W
Dimensions.....	435 x 55 x 367 (mm)
.....	(w x h x d)
Weight	4.04 kg

FRONT AND REAR SPEAKERS

System.....	Full range satellite
Impedance.....	6 Ω
Speaker drivers	3" full range speaker
Frequency response.....	150 Hz – 20 kHz
Dimensions.....	95.5 x 198.3 x 75 (mm)
.....	(w x h x d)
Weight	0.62 kg/each

CENTER SPEAKER

System.....	Full range satellite
Impedance.....	3 Ω
Speaker drivers	2 x 2.5" full range woofer,
.....	1 x 2" tweeter
Frequency response	150 Hz – 20 kHz
Dimensions.....	435 x 93.5 x 67 (mm)
.....	(w x h x d)
Weight	1.26kg

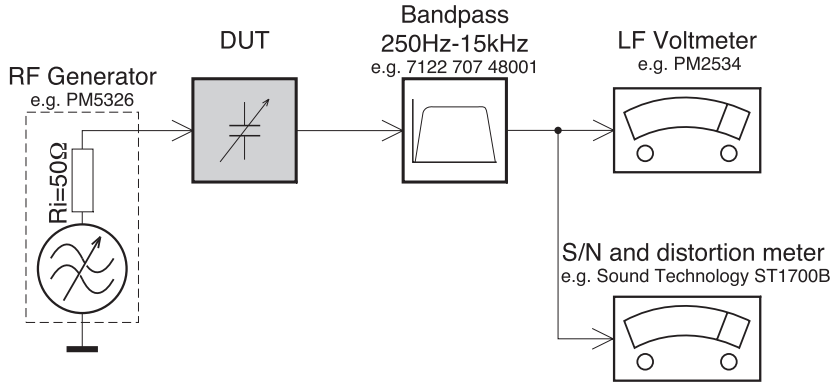
SUBWOOFER

Impedance.....	3 Ω
Speaker drivers	203 mm (8") woofer
Frequency response.....	40 Hz – 150 Hz
Dimensions.....	159.5 x 355.5 x 370 (mm)
.....	(w x h x d)
Weight	4.78 kg

Specifications subject to change without prior notice.

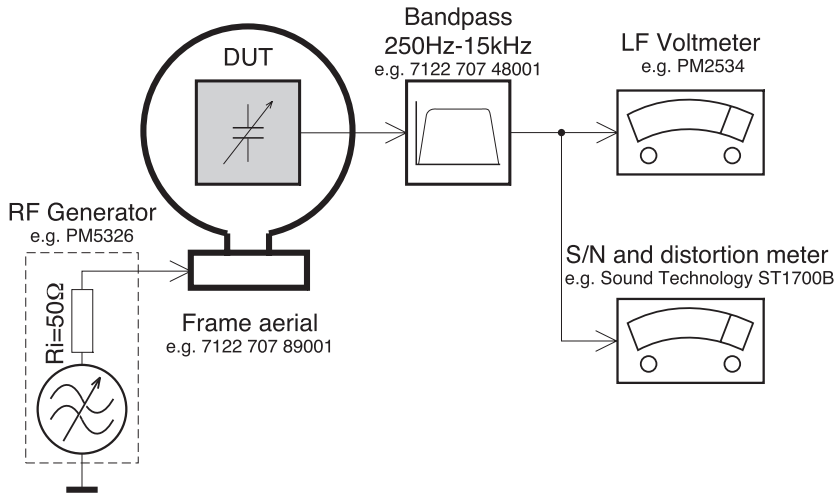
Measurement Setup

Tuner FM



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

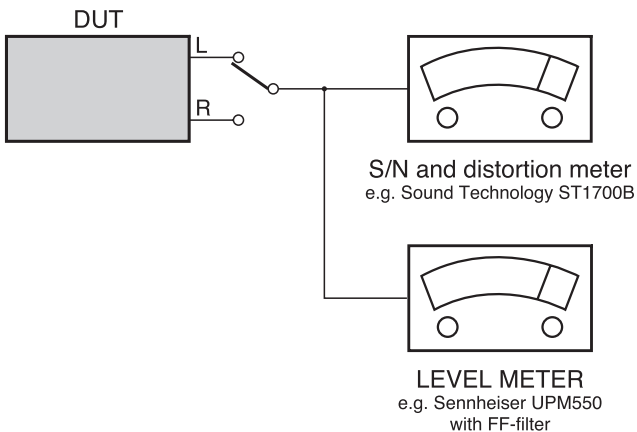
Tuner AM (MW,LW)



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).

CD

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



SERVICE AIDS

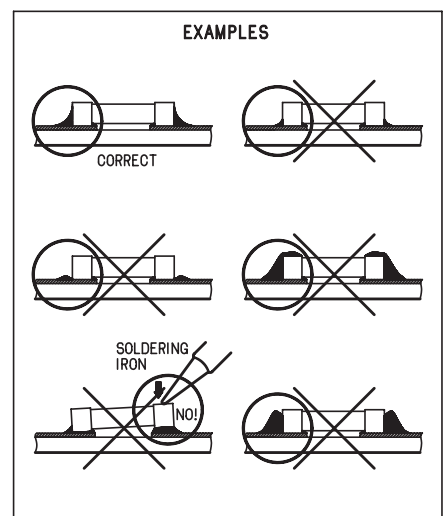
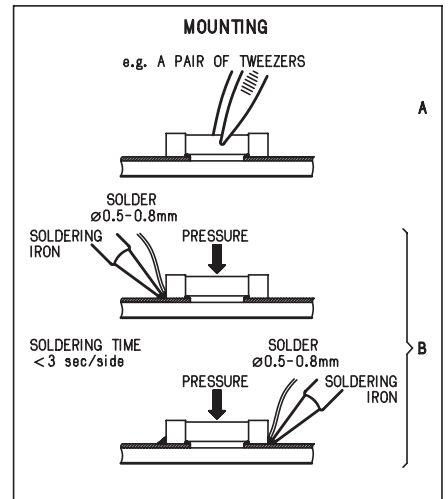
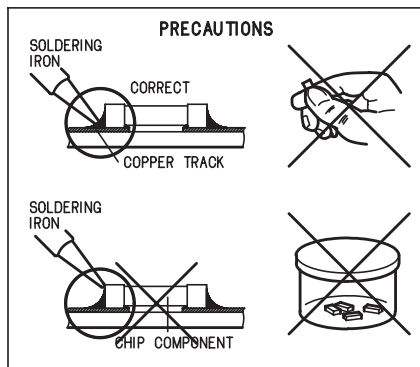
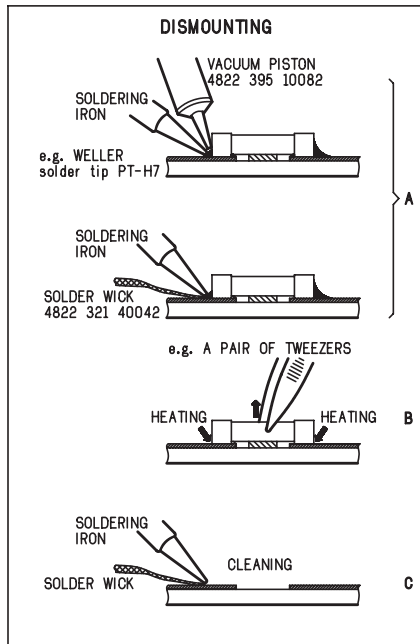
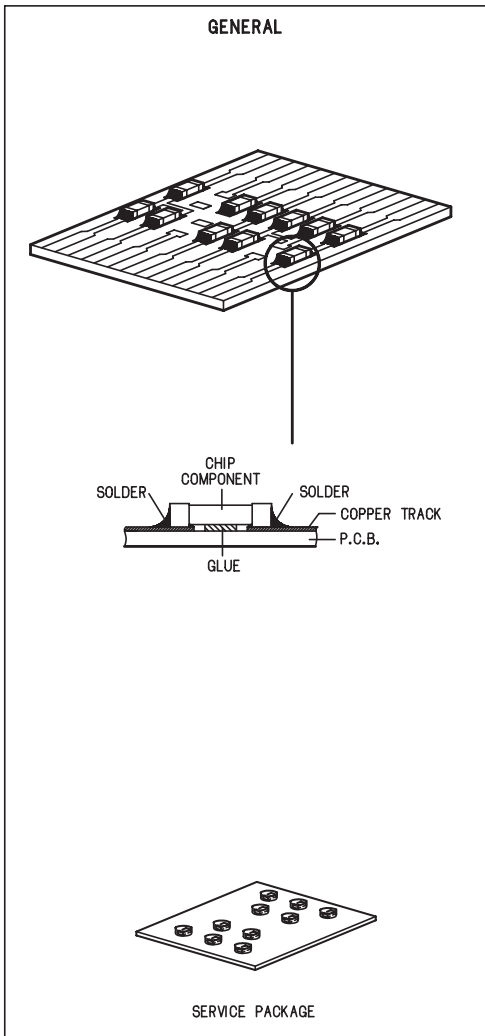
Service Tools:

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

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.

(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.

(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) ESD PROTECTION EQUIPMENT

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

(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 symbol 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.

**(GB) Warning !**

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

(S) Varning !

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

(SF) Varoitus !

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

(DK) Advarsel !

Usynlig laserstrålning 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.

INDENTIFICATION:

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 (lead-ed/ 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 un-used equipment, or reduce heat.
- Mix of lead-free solder alloy / parts with lead-ed solder alloy / parts is possible but PHILIPS recommends strongly to avoid mixed solder alloy types (lead-ed 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 lead-ed 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 Prochure**1)System Reset**

- Press "Setup" button on R/C,TV will show preference menu
- Select the menu using the▼ and ► on R/C
- Go preference page to do system reset

2)Region Code Change

- Press the "stop" button on R/C in open midel
- Press "7" "3" "4" "4" "6" "6" on R/C, then input desired number to change region code :

1	USA
2	EU
3	AP
4	Australia ,NZ , Latam
5	Russia , INDIA
6	CHINA

3)Version Control Change

- In open model, press "1" "5" "9" on R/C
- Press "ok" button to confirm
- TV will show message as below:

Current model
 Version: 00.25.05_70504 Region :1
 Servo: 58.58.00.00
 8032: 05.00.04.06 RISC: OE.OE.01.00
 IF current model does not match you set use down arrow
 key on the remote to change

4)Password Change

- Press "Setup " button on R/C,TV will show preference page
 - Select the menu using the▼ and ► on R/C
 - Go preference page select "password" to change
- * 000000 is default password supplied.

5)Check on the Sofeware Version

- Open the CD Door
- Press "display" button on R/C
- TV will show the version on screen

6)Trade model

- Press "Open/Close " button on R/C
- Press "2" "5" "9" on R/C,VFD will display "TRA ON " or "TRA OFF"

7) Upgrading new sofeware

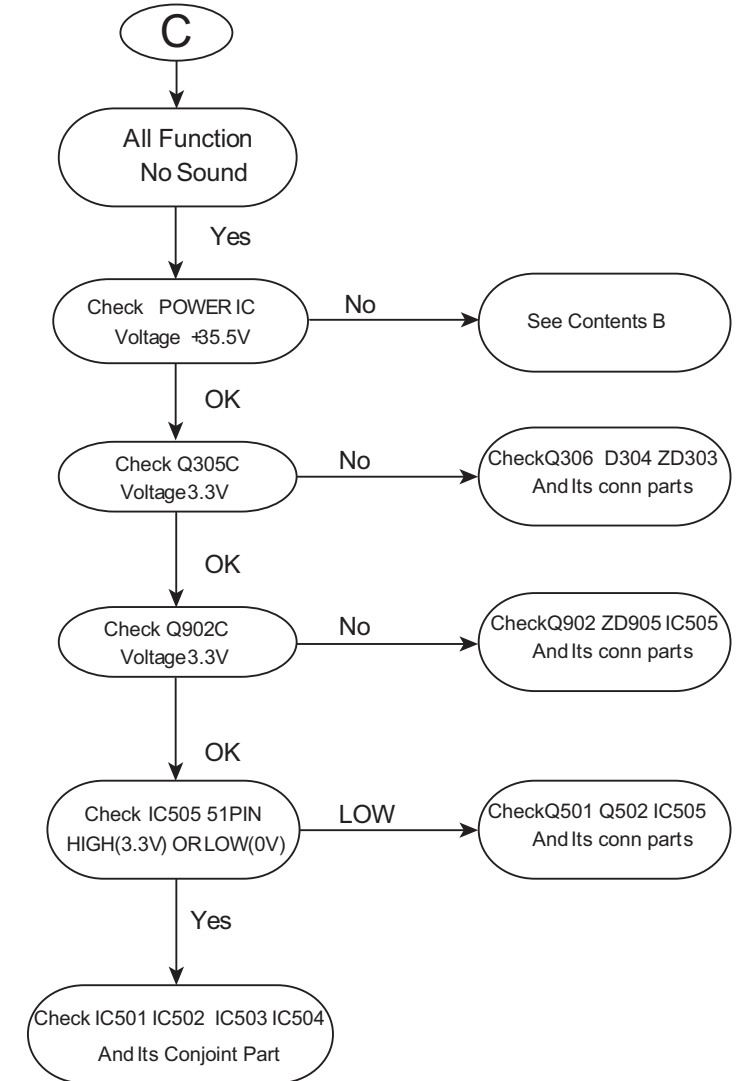
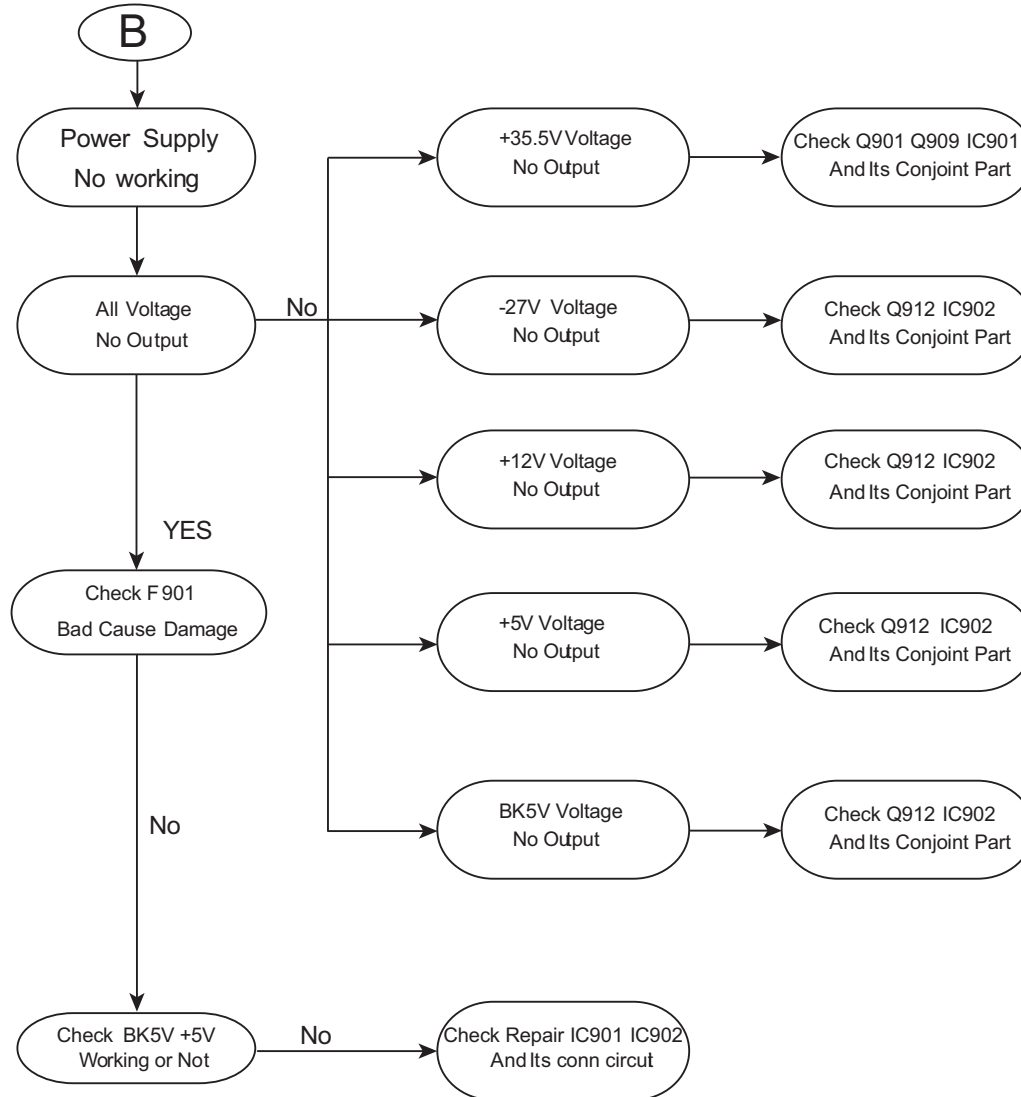
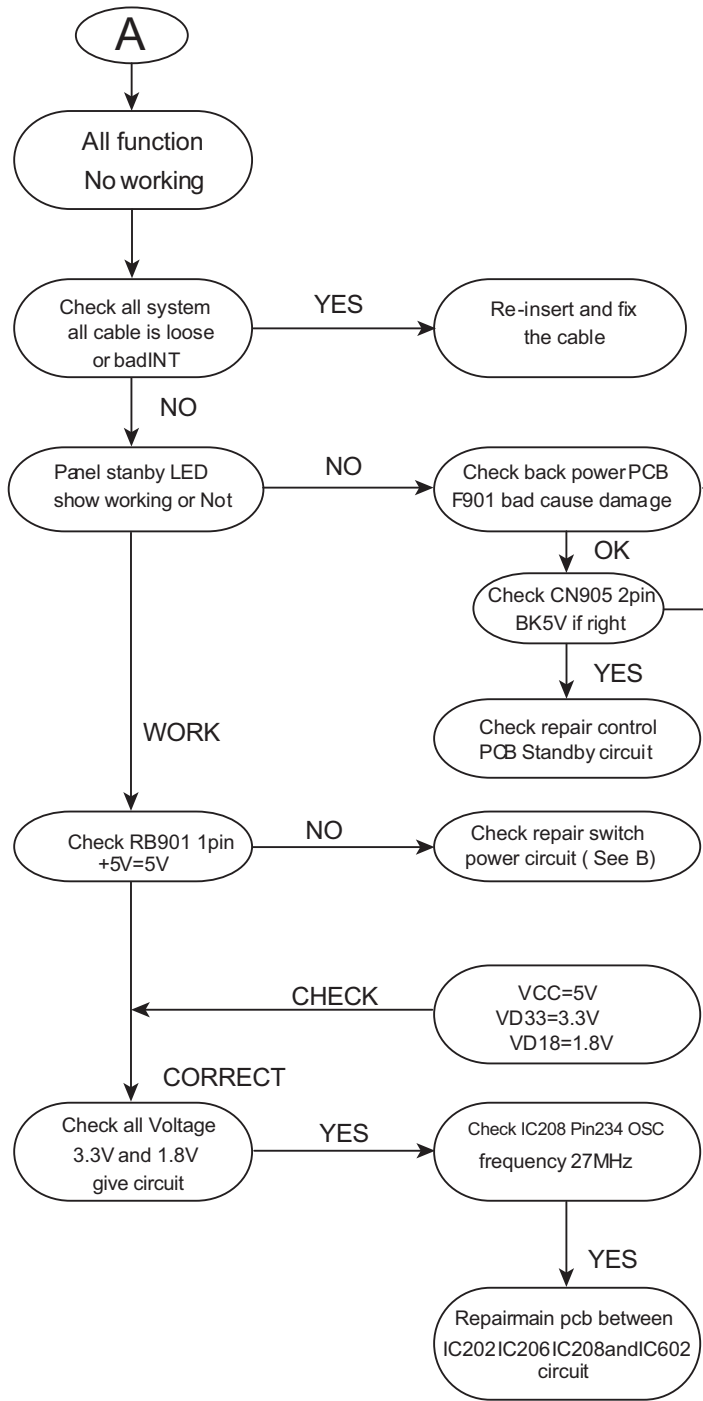
- Open the CD Door, then insert the CD-R program disc
 - Close the CD Door
 - VFD will show:
 - "Loading"
 - "Erase" -- erase the flash memory
 - "Writing" about 2 minute
 - "done "
- * the latest upgraded is in version VER 00.25.05_70504_00

CAUTION!

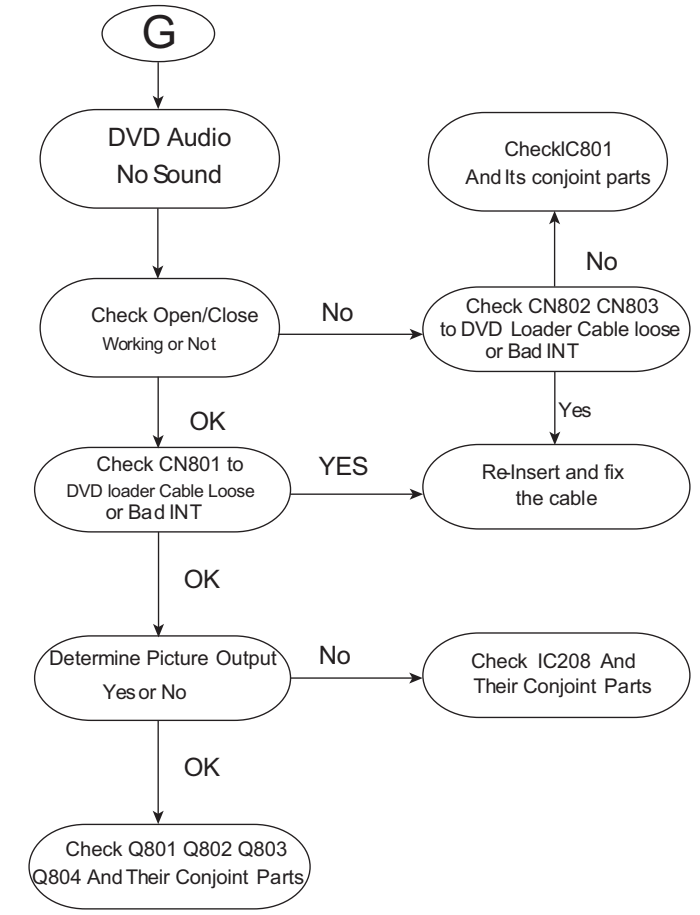
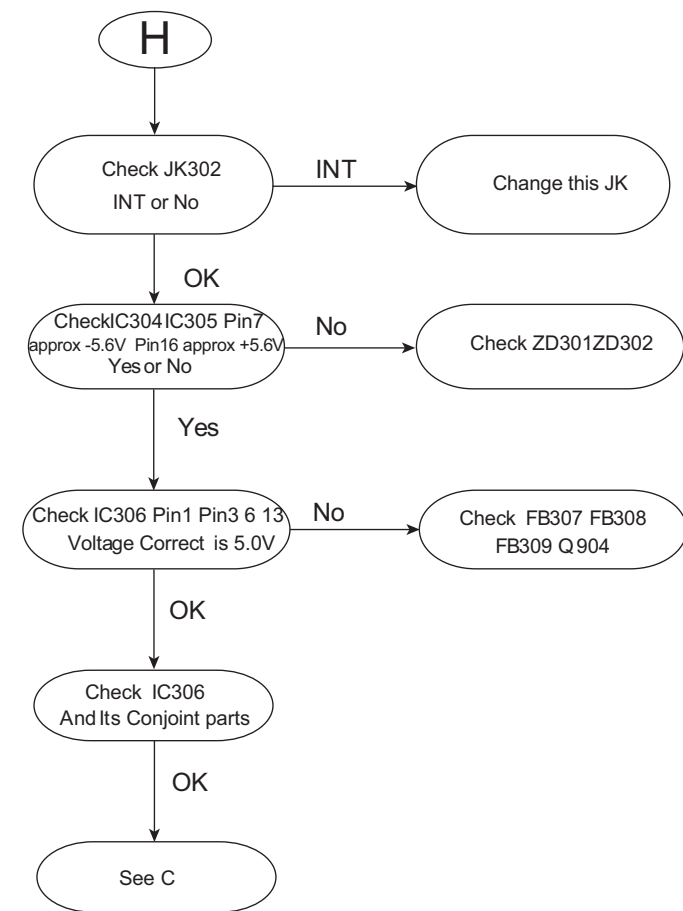
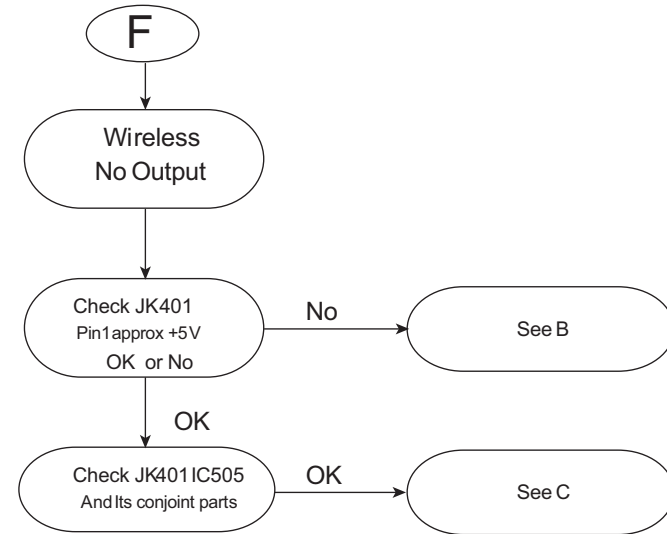
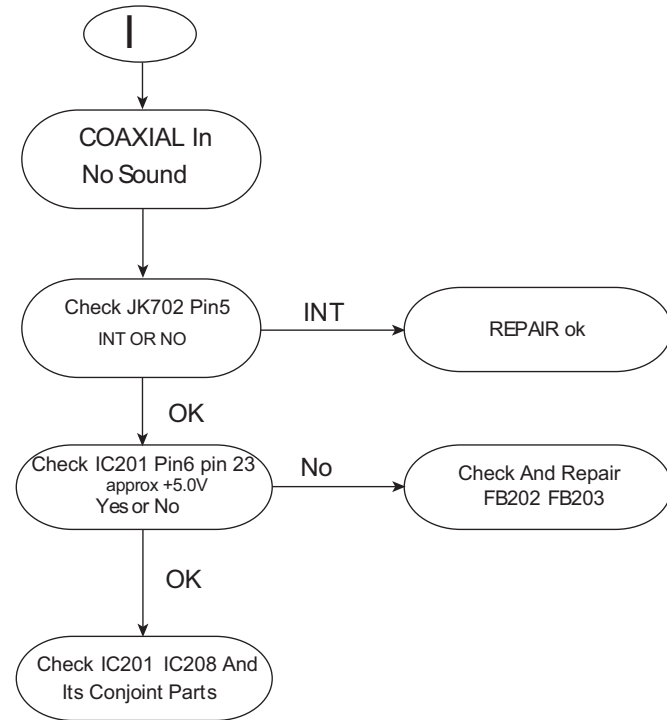
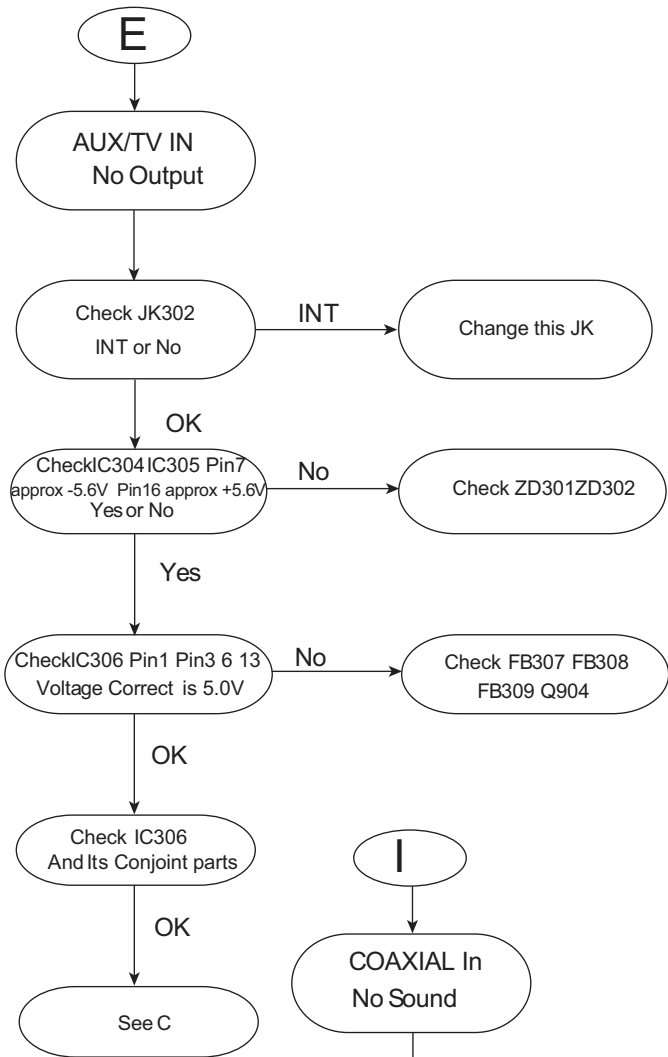
This information is confidential and may not be distributed.Only a qualified service person should reprogram the Region Code.

MAIN UNIT REPAIR CHART 1 / 3

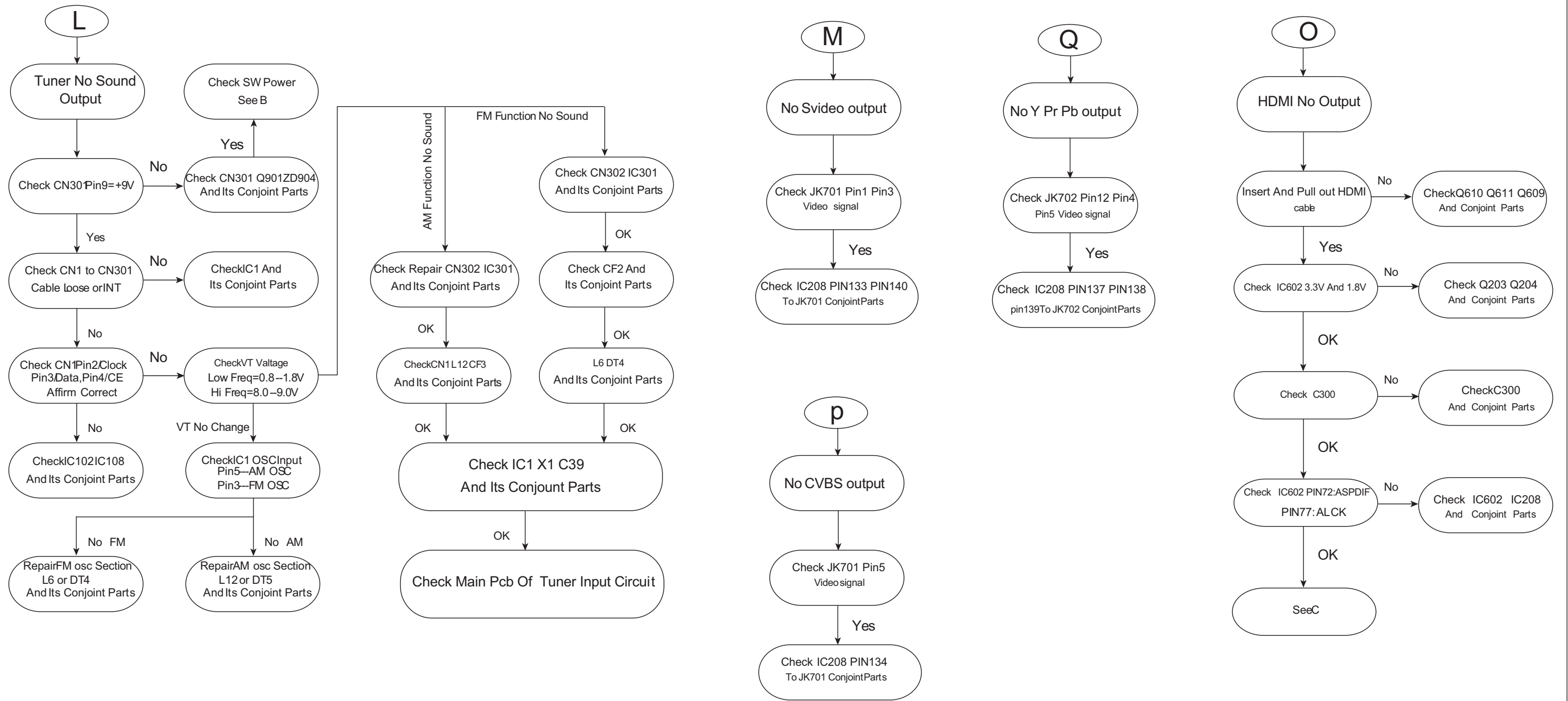
- A**
All Function
No Working
- B**
Power Supply
No Working
- C**
All Function
No Sound
- D**
Ipod input
No Sound
- E**
Audio line IN
No Output
- F**
Wireless
No Output
- G**
DVD Audio
No Sound
- H**
MP3 In
No Sound
- I**
COAXIAL In
No Sound
- L**
Tuner No Sound
- M**
No Svideo Output
- O**
HDMI No Output
- P**
No CVBS Output
- Q**
No Y Pr Pb output



MAIN UNIT REPAIR CHART 2/3



MAIN UNIT REPAIR CHART 3/3



DISASSEMBLY INSTRUCTIONS

Dismantling of the Front Panel Assembly

- 1) Open the DVD Tray by using the Open/Close Button while the Set is ON and disconnect the mains supply after removing the Tray Cover.

Note: If this is not possible, the DVD Tray has to be open manually.

Take a mini screw driver about 2mm diameter and make a marking 24mm from the tip as shown in figure 2 . Place the set on its side, insert the mini screw driver till the marking and slide it towards the right as shown in figure 1 until the Tray moves out of the Front Panel.

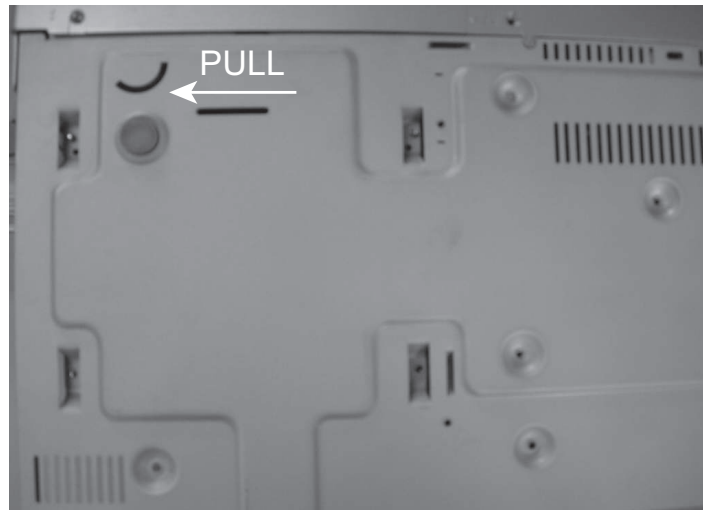


Figure 1

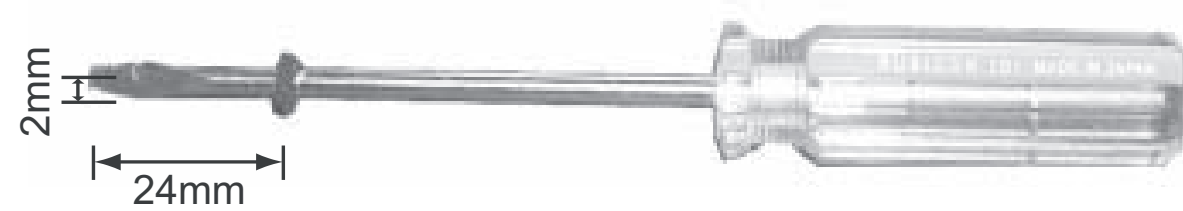


Figure 2

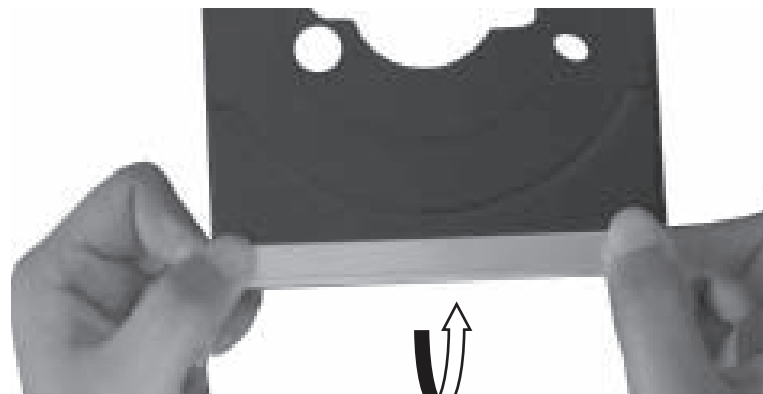


Figure 3

3 - 1

- 2) Return the set to its upright position and remove the Tray Cover as shown in Figure 3 and close the tray manually by pushing it back in.
- 3) Loosen 5 screws and remove the Top Cover by lifting the rear portion upwards before sliding it out towards the rear.
 - 3 screws on the back
 - 1 screw each on the left & right side
- 4) Loosen 5 screws & lift up the top edge of Front Panel assembly to free some catches before sliding it out towards the front.
 - 3 screws on the bottom
 - 1 screw each on the left & right side

Dismantling of the Main PCB

3 - 1

- 2) Loosen 3 screw " A " on the top of main board as shown in figure 4.
- 1) Loosen 7 screw "B" at the back panel as shown in figure 5.

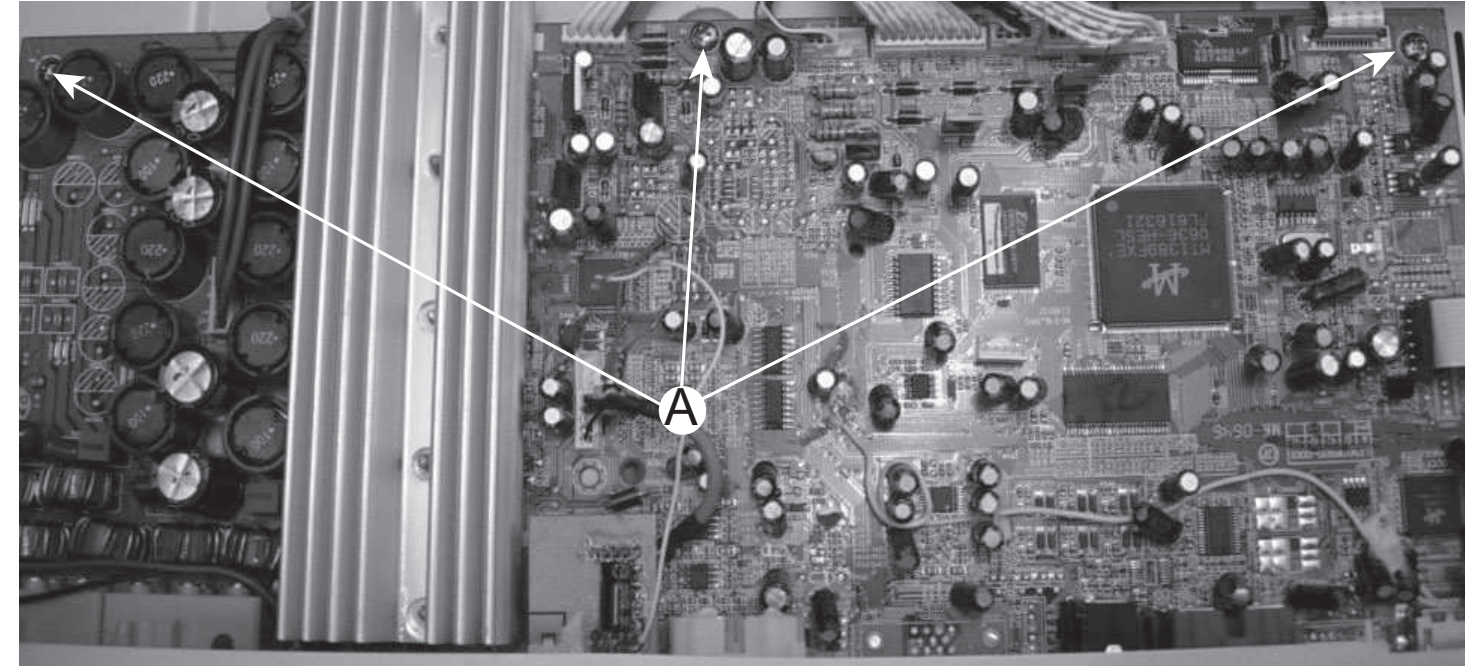


Figure 4

Dismantling of the Ipod Board

- 1) Loosen 1 screws "C" at the back pancele as shown in figure5

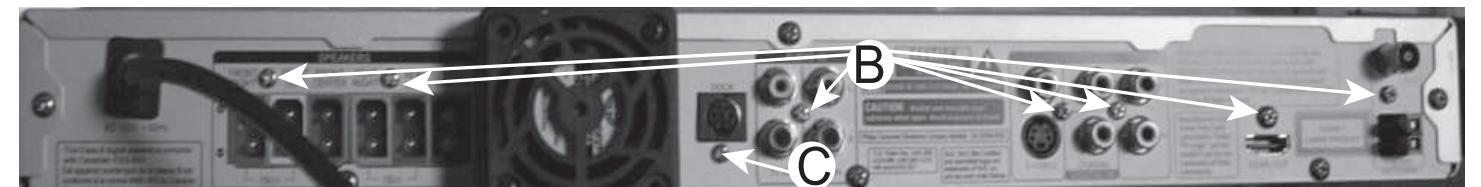


Figure 5

1) Loosen 10 screws "E" at the back pancele as shown in figure 6

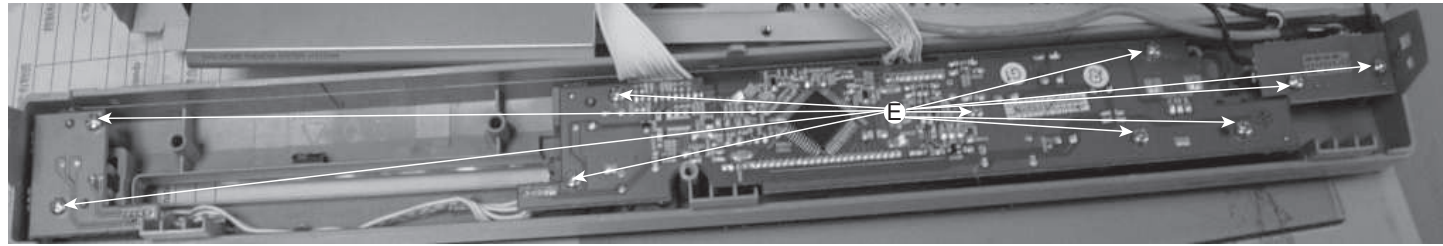


Figure 6

Dismantling of the Power Board

1) Loosen 5 screws "D" at the top of the Power Board as shown in figure 7

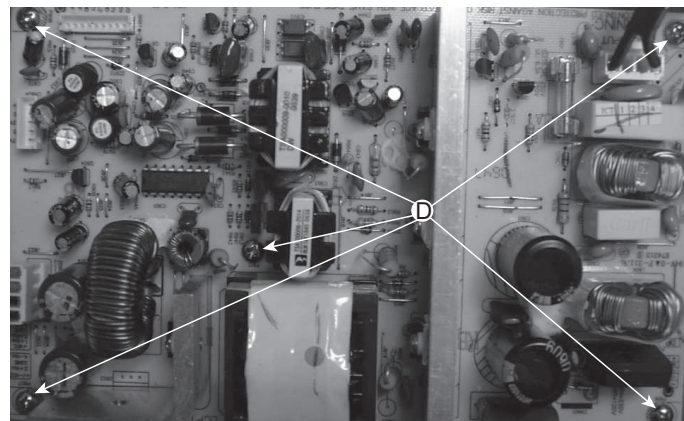


Figure 7

Dismantling of the DVD Module

1) Loosen 4 screws "F" to remove the DVD Module as shown in figure 8.

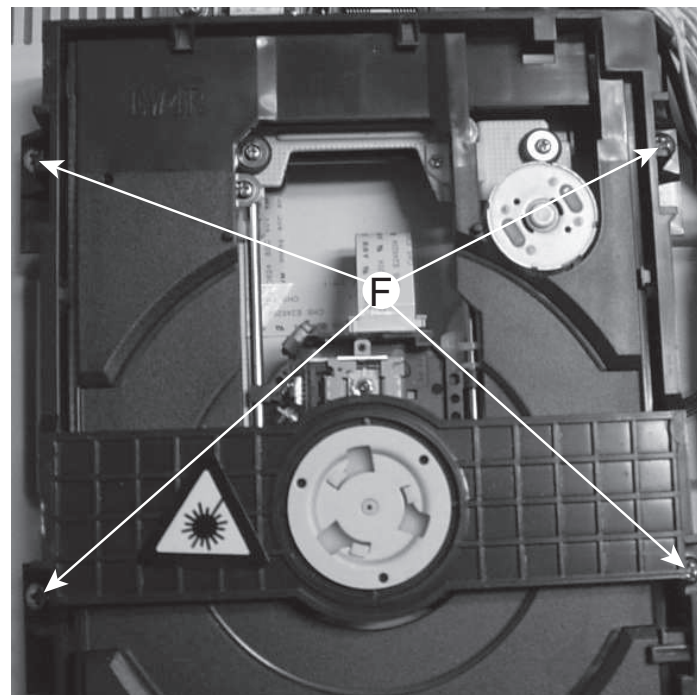
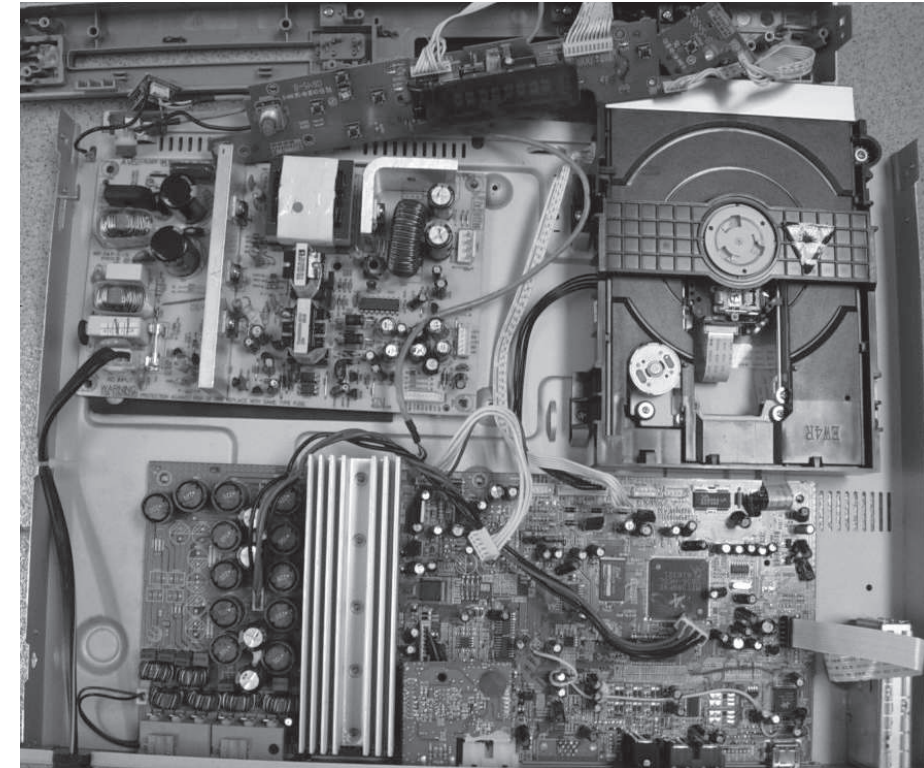


Figure 8

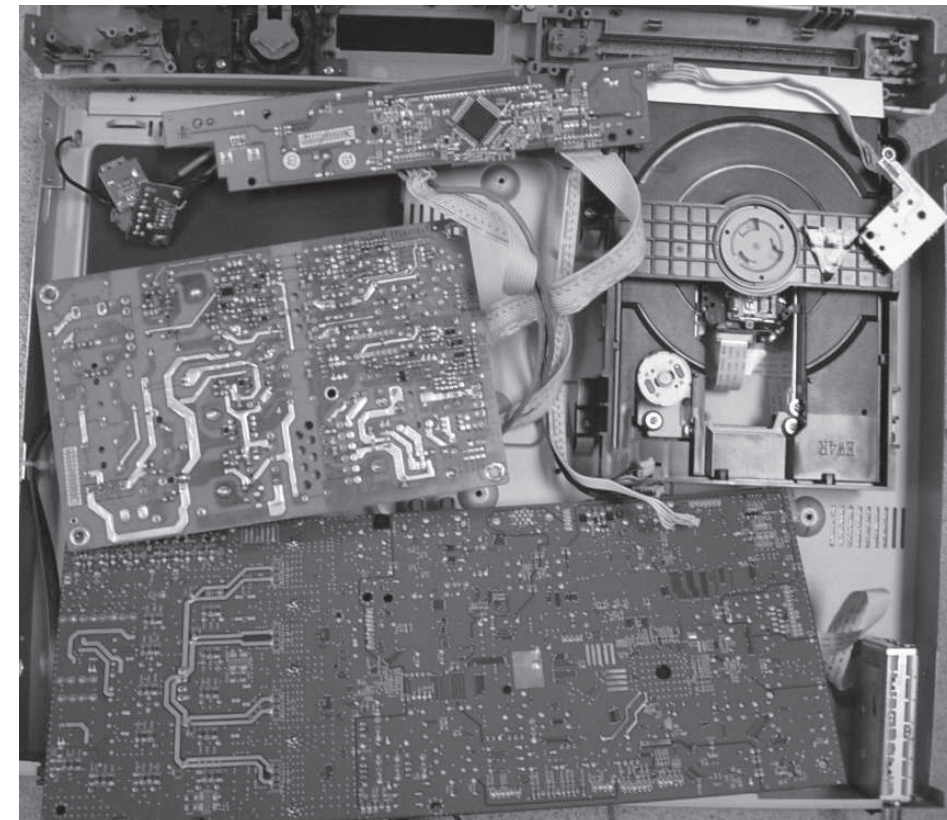
SERVICE POSITIONS

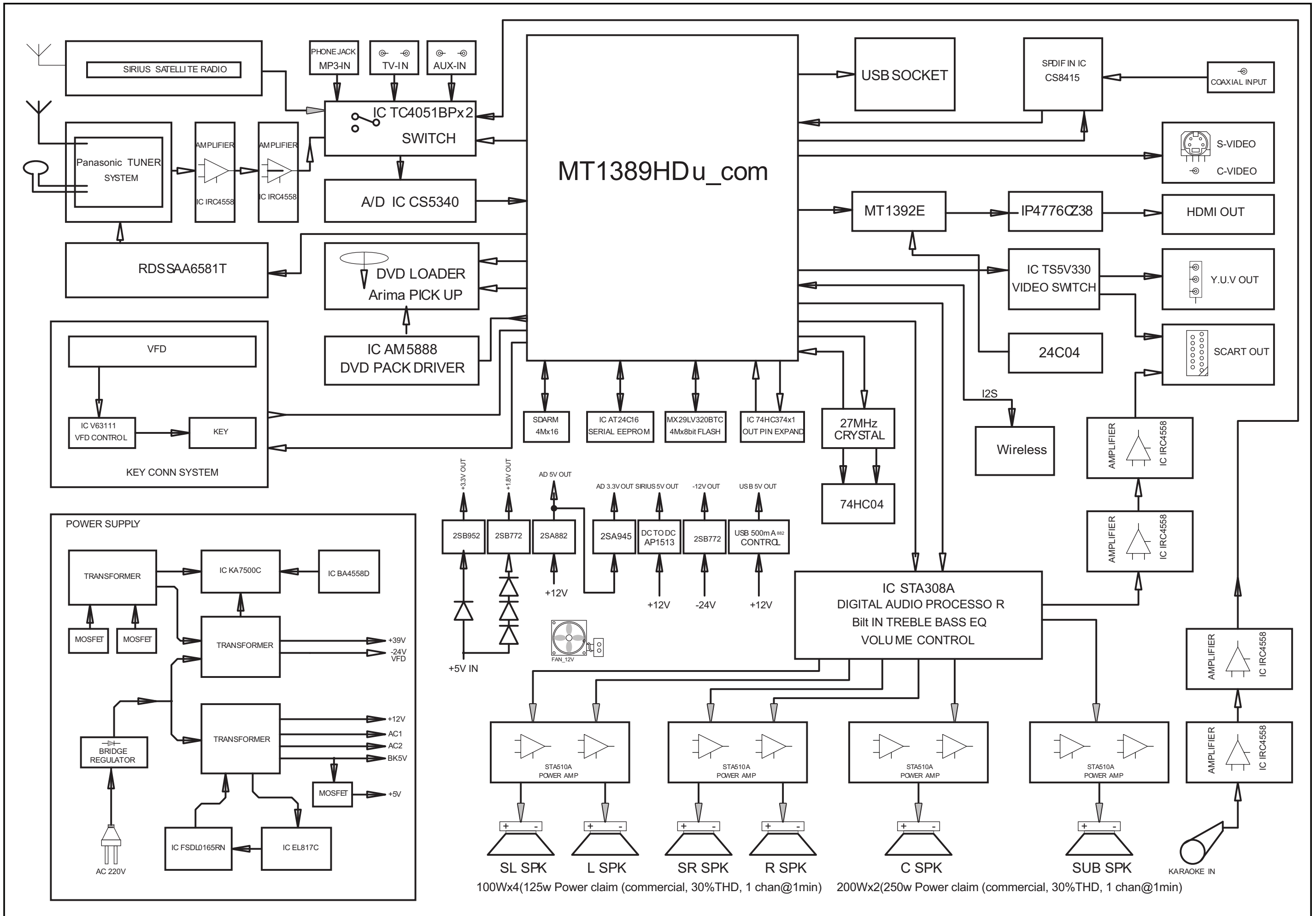
Service position A



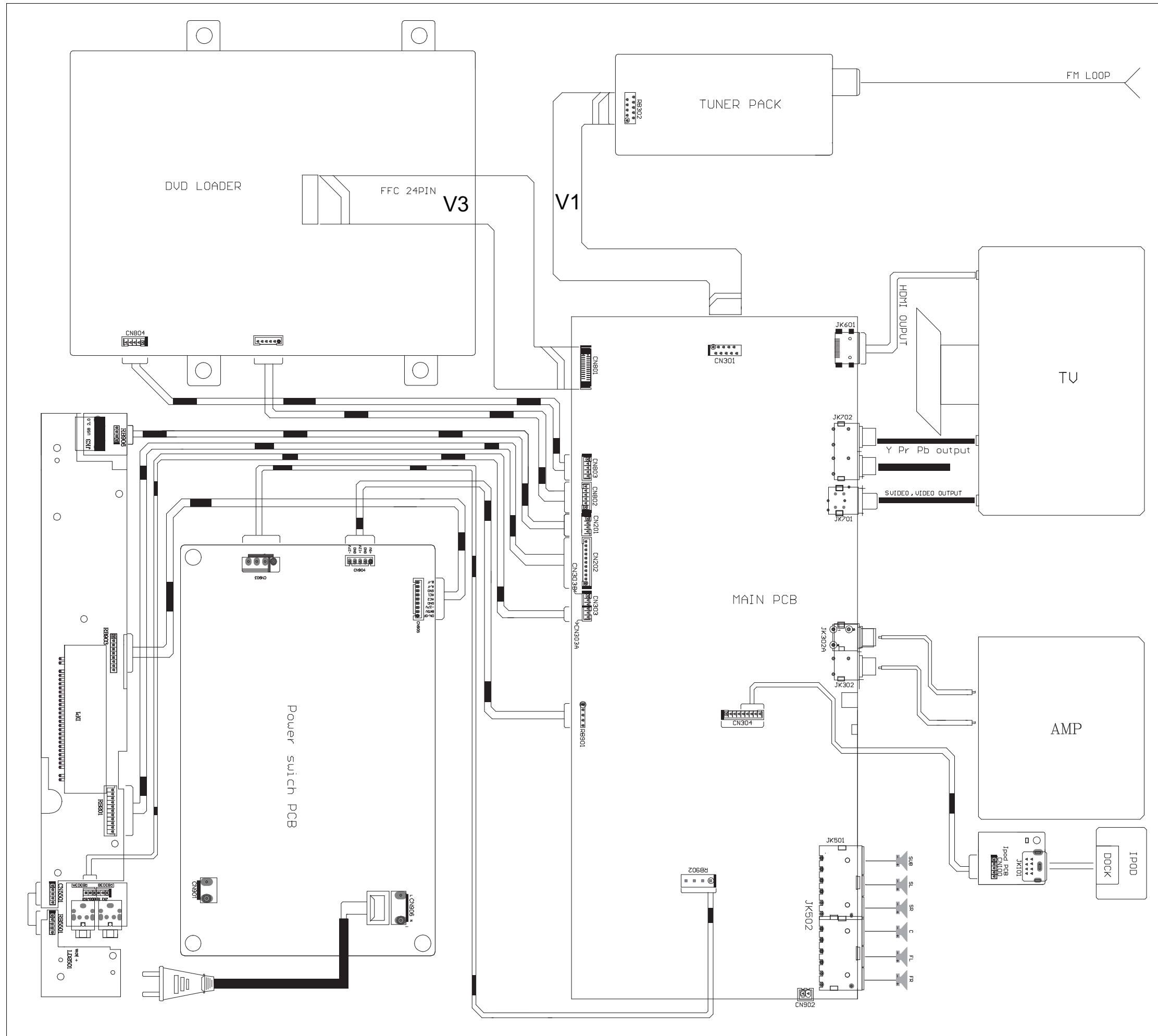
Note: In some service positions the components or copper patterns of one board may risk touching its neighbouring pc boards or metallic parts. To prevent such short-circuit use a piece of hard paper or other insulating material between them.

Service position B





WIRING DIAGRAM

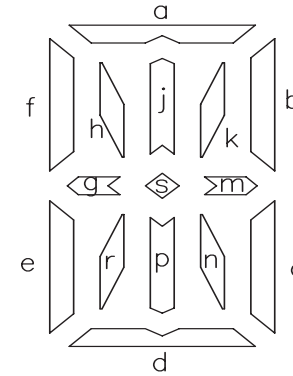
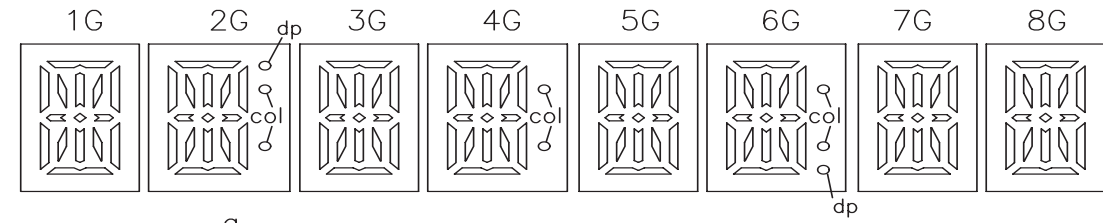


FTD DISPLAY PIN ASSIGNMENT

CONTROL BOARD

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	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	—	—

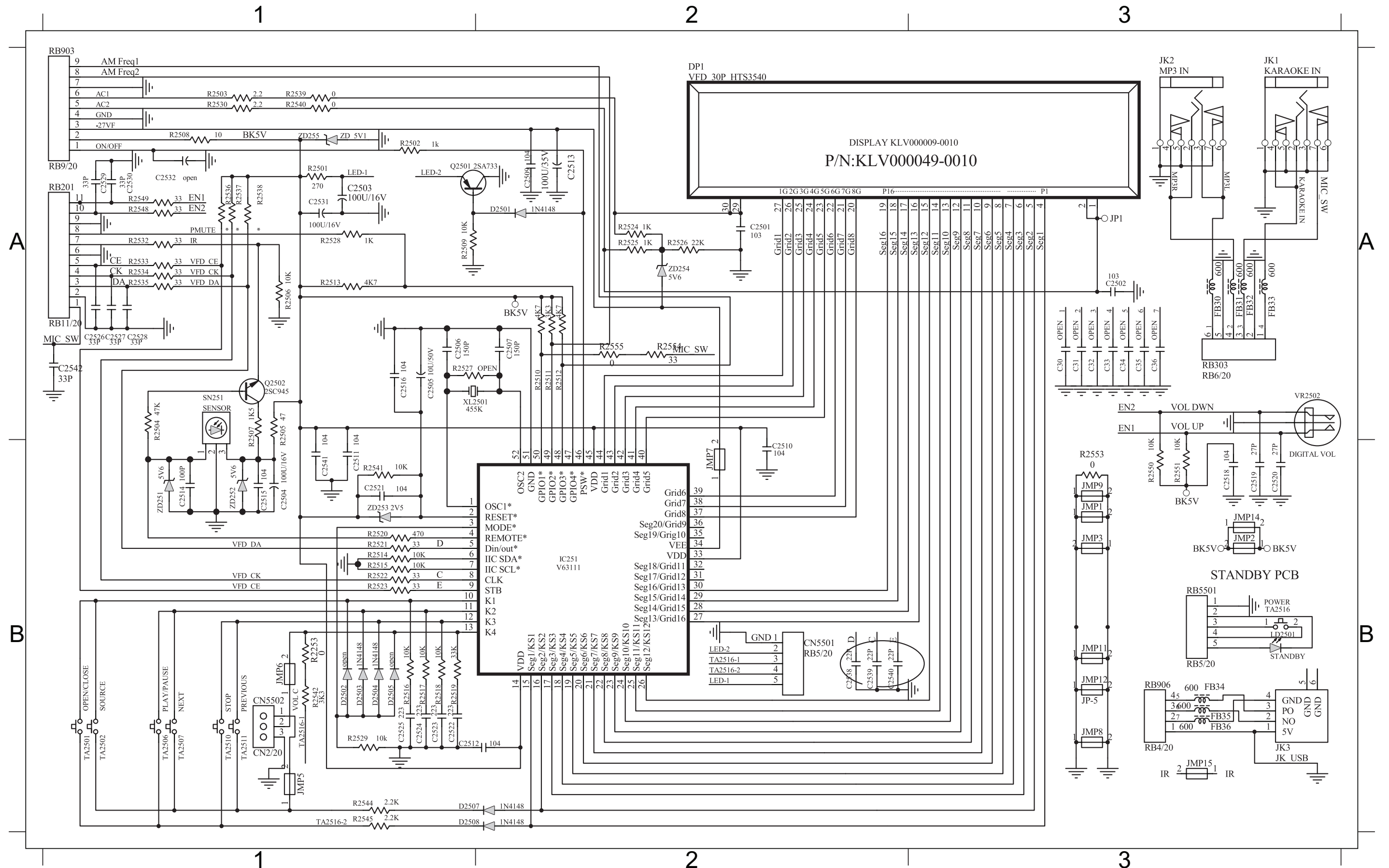
PIN CONNECTION

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

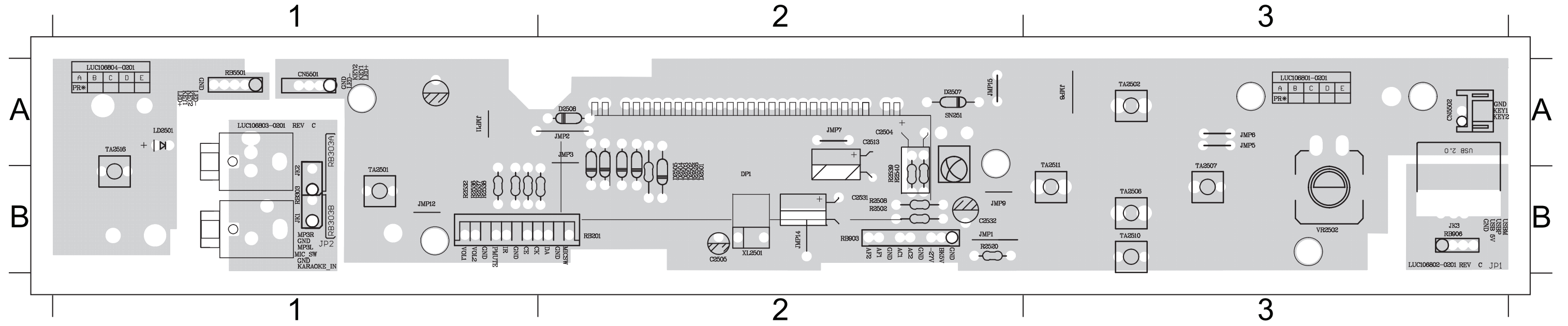
CIRCUIT DIAGRAM

C2501 A3	C2509 A2	C2515 B1	C2522 B1	C2528 A1	C2540 B2	D2507 B1	FB35 B3	JMP11 B3	JMP5 B1	LD2501 B3	R2503 A1	R2509 A1	R2517 B1	R2523 B1	R2530 A1	R2540 A1	R2549 A1	RB903 A1	TA2507 B1	ZD251 B1	R2537 A1
C2502 A3	C2510 B2	C2516 A1	C2523 B1	C2529 A1	C2541 B1	D2508 B1	FB36 B3	JMP12 B3	JMP6 B1	Q2501 A1	R2504 A1	R2510 A2	R2518 B1	R2524 A2	R2532 A1	R2541 B1	R2553 B3	RB906 B3	TA2510 B1	ZD252 B1	R2538 A1
C2504 B1	C2511 B1	C2518 B3	C2524 B1	C2530 A1	C2542 A1	DP1 A2	IC251 B2	JMP14 B3	JMP7 B2	Q2502 A1	R2505 A1	R2513 A1	R2519 B1	R2525 A2	R2533 A1	R2542 B1	R2554 A2	SN251 A1	TA2511 B1	ZD253 B1	R2555 A2
C2505 A1	C2512 B1	C2519 B3	C2525 B1	C2531 A1	D2501 A2	FB30 A3	JK2 A3	JMP15 B3	JMP8 B3	R2253 B1	R2506 A1	R2514 B1	R2520 B1	R2526 A2	R2534 A1	R2544 B1	RB201 A1	TA2501 B1	TA2516 B1	ZD254 A2	
C2506 A1	C2513 A2	C2520 B3	C2526 B1	C2538 B2	D2503 B2	FB31 A3	JK3 B3	JMP2 B3	JMP9 B3	R2501 A1	R2507 A1	R2515 B1	R2521 B1	R2528 A1	R2535 A1	R2545 B1	RB303AA3	TA2502 B1	VR2502A3	ZD255 A1	
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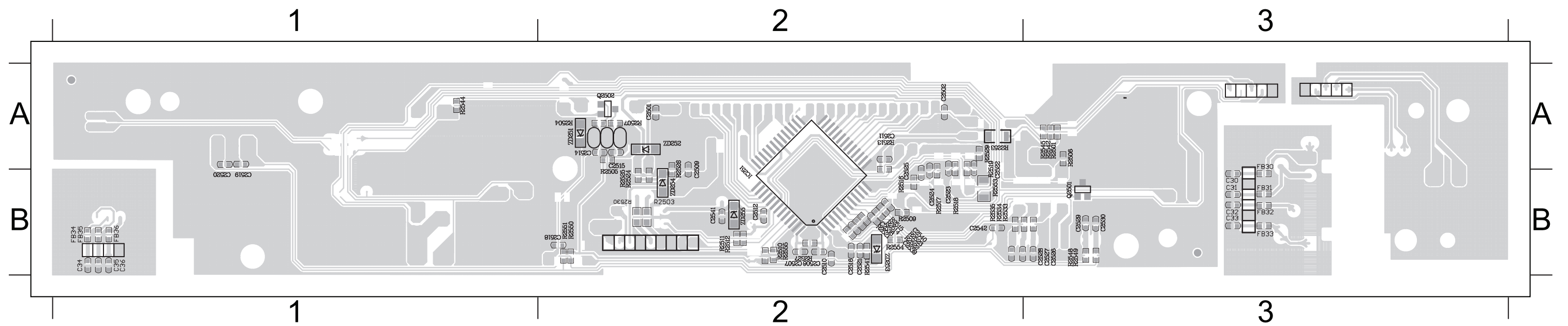
PCB LAYOUT - TOP VIEW

C2504	A2	C2531	B2	D2504	B2	DP1	B2	JMP1	B2	JMP14	B2	JMP3	A2	JMP7	A2	JP1	B3	R2502	B2	R2528	B2	R2540	B2	RB5501	A1	SN251	A2	TA2506	B3	TA2511	B3	XL2501	B2	R2538	B1
C2505	B2	D2501	B2	D2507	A2	JK2	B3	JMP11	A1	JMP15	A2	JMP5	A3	JMP8	A3	JP2	B1	R2508	B2	R2532	B3	RB201	B2	RB903	B2	TA2501	A1	TA2507	B3	TA2516	A1	R2536	B1		
C2513	A2	D2503	B2	D2508	A2	JK3	B3	JMP12	B1	JMP2	A2	JMP6	A3	JMP9	B2	LD2501	A1	R2520	B2	R2539	B2	RB303A	B3	RB906	B3	TA2502	A3	TA2510	B3	VR2502	B3	R2537	B1		



PCB LAYOUT - BOTTOM VIEW

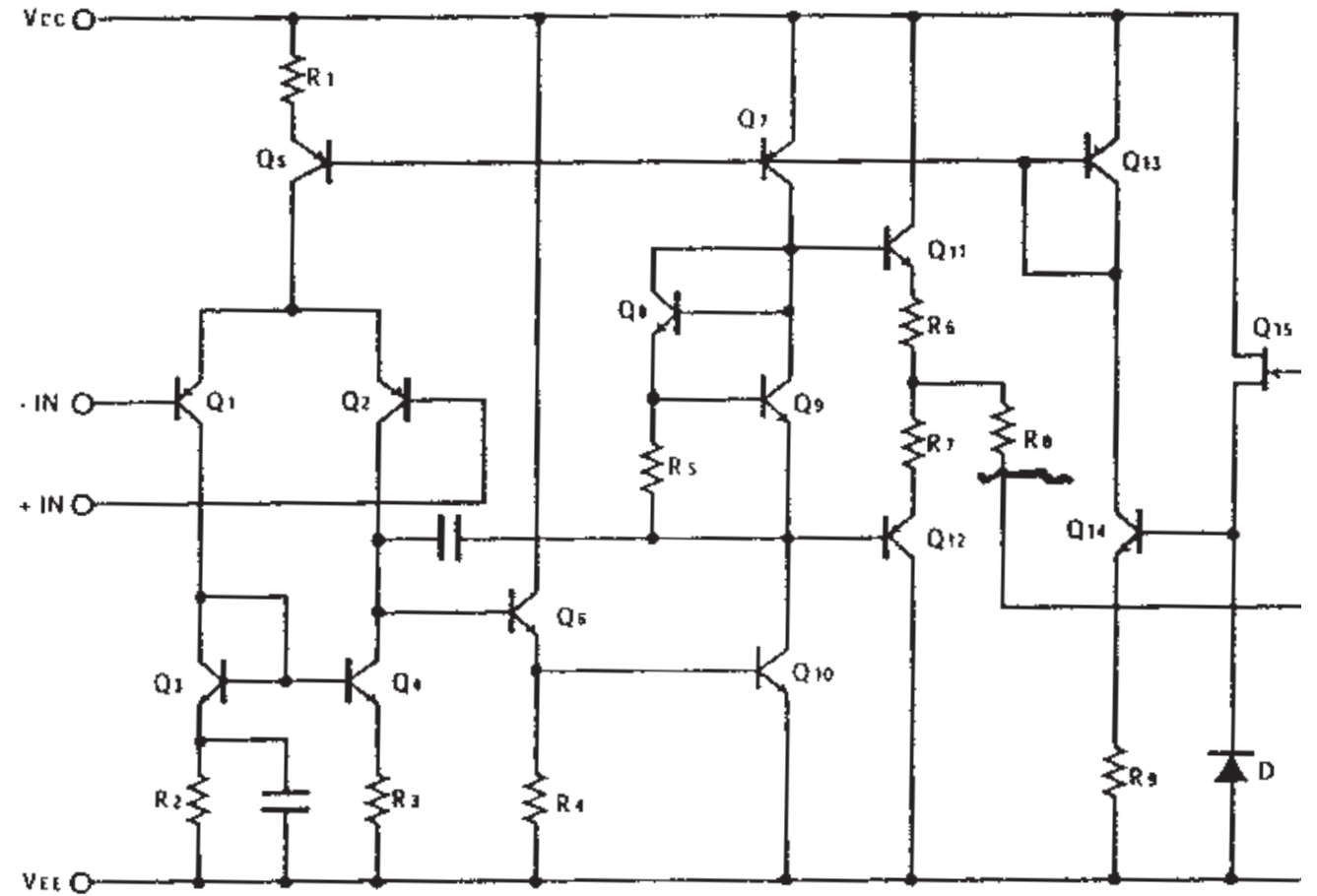
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C2502	A2	C2511	A2	C2516	B2	C2521	B2	C2525	A2	C2539	B2	FB30	B3	FB36	B1	R2253	A2	R2505	B2	R2510	B2	R2516	B2	R2521	B2	R2525	B2	R2533	B2	R2542	A3	R2549	B3	ZD252	A2	R2555	B2
C2506	B2	C2512	B2	C2518	B2	C2522	B2	C2529	B3	C2540	B2	FB31	B3	IC251	B2	R2501	A3	R2506	A3	R2513	A2	R2517	B2	R2522	B2	R2526	B2	R2534	B2	R2544	A1	R2553	B2	ZD253	B2		
C2507	B2	C2514	A2	C2519	B1	C2523	B2	C2530	B3	C2541	B2	FB34	B1	Q2501	B3	R2503	B2	R2507	A2	R2514	B2	R2518	B2	R2523	B2	R2529	A2	R2535	B2	R2545	A3	R2554	B2	ZD254	B2		



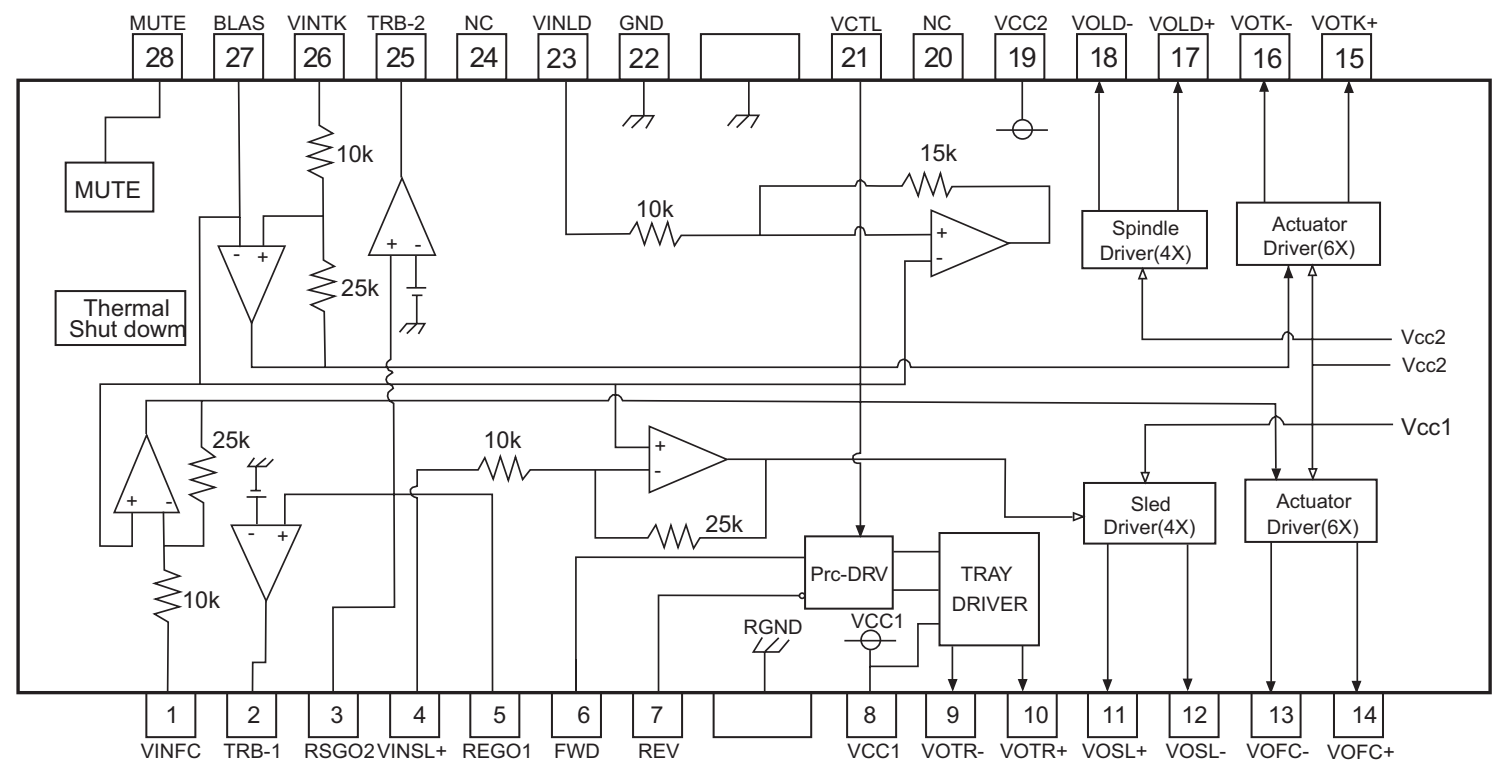
MAIN BOARD

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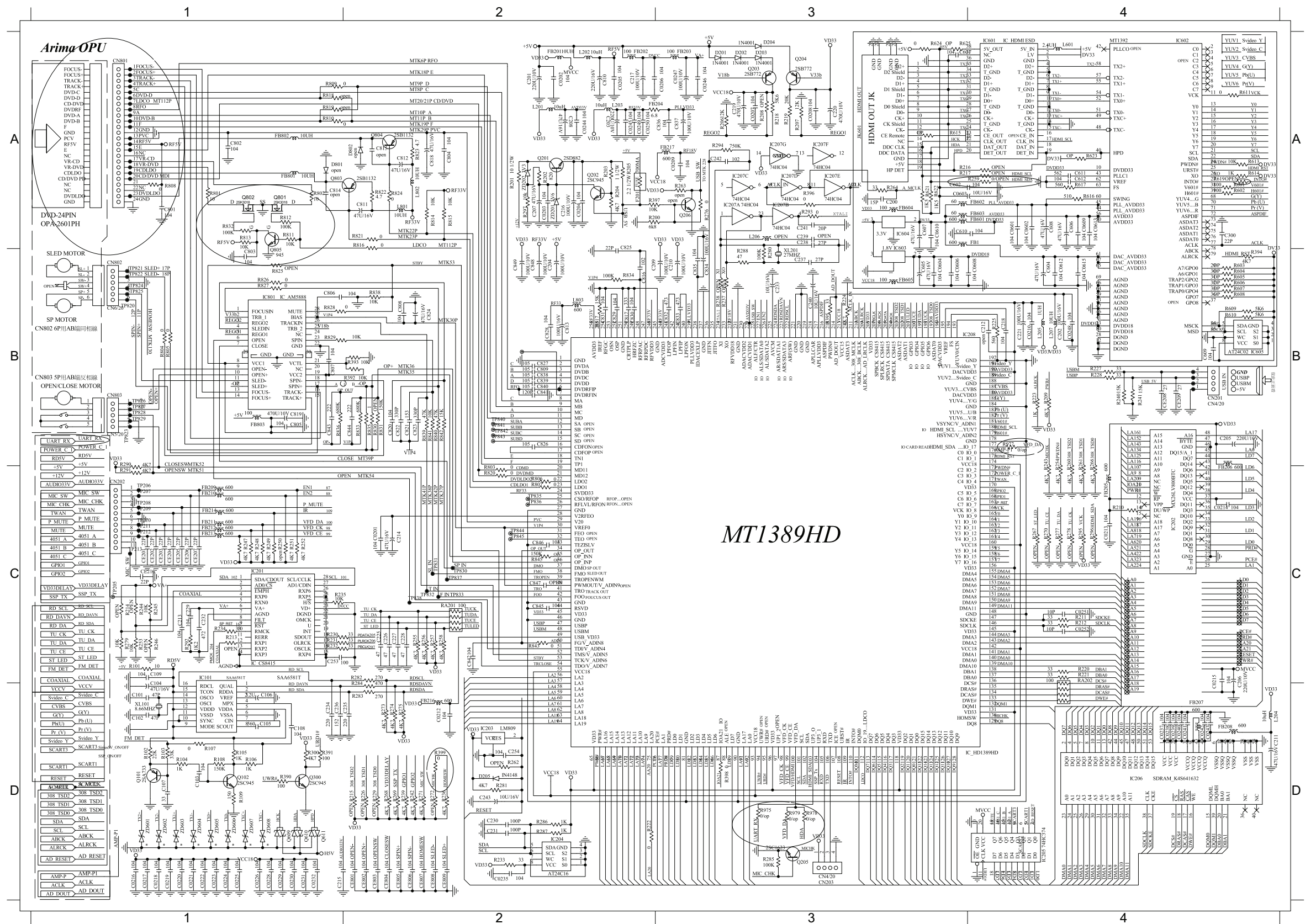


INTERNAL IC DIAGRAM - V5888S HOSP



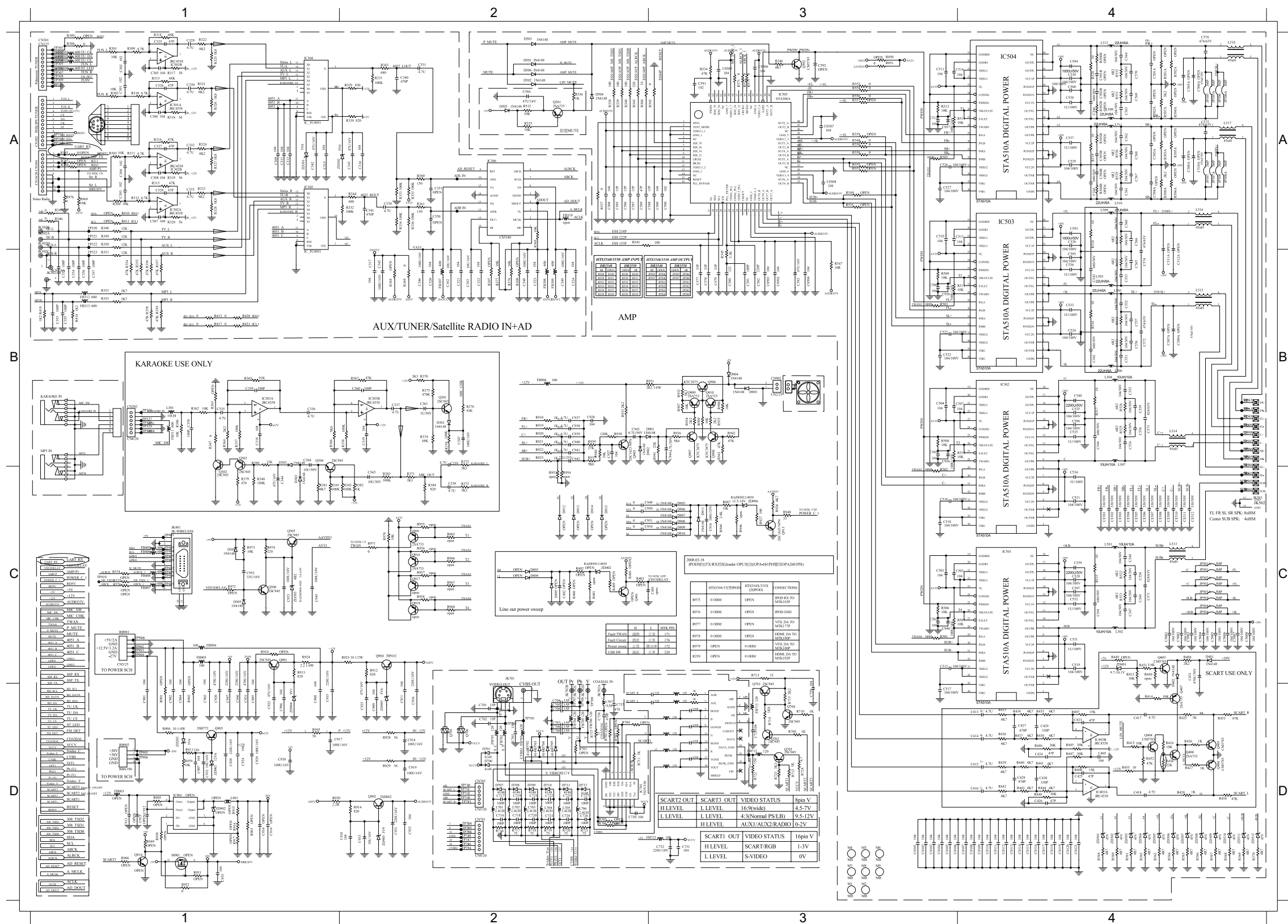
Circuit Diagram (part one)

C0201	C2	C0215	C4	C0229	D1	C0245	A2	C0608	B4	C208	A2	C225	C2	C242	A3	C610	A3	C811	A2	C826	B2	C839	B2	CE204	C1	CE808	D2	FB1	A4	FB213	C1	IC202	C4	L204	D4	Q610	D1	R206	A3	R223	B4	R241	B4	R258	C2	R283	C2	R391	D1	R613	A4	R807	C2	R822	A2	R838	B2	ZD201	A2
C0202	A2	C0216	D1	C0230	D1	C0246	A3	C0609	A4	C209	B2	C226	C2	C243	D2	C611	A4	C812	A2	C827	B2	C840	B2	CE205	C1	CE809	D2	FB201	A2	FB214	C1	IC203	D2	L205	B4	Q611	D1	R207	A3	R224	B3	R242	D2	R260	B4	R284	C2	R392	B2	R614	A4	R808	A1	R823	A2	R839	B2	ZD202	A2
C0203	A2	C0217	D1	C0231	D1	C0247	A3	C0610	A3	C210	B3	C227	C2	C253	C1	C612	A4	C813	B2	C828	B2	C841	B2	CE206	C1	CN201	B4	FB202	A2	FB215	D2	IC204	D2	L207	B4	Q801	A1	R209	B4	R225	B4	R243	B4	R261	B4	R286	D2	R393	B2	R616	A4	R809	A1	R824	A2	R840	B2		
C0204	A2	C0218	D1	C0232	D1	C0248	B4	C0612	B4	C211	D4	C228	C2	C254	D2	C801	A1	C816	B2	C829	B2	C842	C2	CE207	C1	CN202	C1	FB203	A3	FB216	D2	IC205	D4	L601	A3	Q802	A1	R210	C4	R227	B4	R245	C1	R264	A3	R287	D2	R394	B4	R617	A4	R810	A1	R826	B1	R841	B2		
C0205	A2	C0219	D1	C0235	D2	C0249	A2	C0613	A4	C213	C1	C229	C1	C300	A4	C802	A1	C817	B2	C830	B2	C843	B1	CE208	B4	CN203	D3	FB204	A2	FB601	A4	IC206	D4	L801	A2	Q803	A1	R211	C4	R228	B4	R247	C1	R266	B4	R288	B3	R395	B3	R621	A3	R811	A1	R827	B1	R842	B2		
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C0207	A3	C0221	D1	C0238	D4	C0251	C4	C201	A2	C215	D2	C231	D2	C602	A3	C804	B2	C819	B1	C832	B3	C845	C2	CE210	C1	CN802	B1	FB206	C4	FB603	A4	IC208	B4	L803	A2	Q805	A1	R216	A3	R231	C1	R249	C1	R271	D2	R291	C1	R398	D3	R624	A3	R813	A1	R829	B1	R845	C2		
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C0209	A3	C0223	D1	C0240	D4	C0601	A4	C203	A2	C217	A2	C233	B3	C605	B3	C806	B1	C821	B2	C834	B3	C848	B2	CE802	D2	D201	A3	FB208	D4	FB605	B3	IC801	B4	Q202	A2	R201	A2	R218	A3	R233	D2	R252	C1	R276	A3	R293	A3	R601	A4	R802	A1	R815	A2	R831	B2	R977	B4		
C0210	B4	C0224	D1	C0241	D4	C0602	A4	C204	B2	C218	B4	C237	B3	C606	A4	C807	B1	C822	B2	C835	B3	C849	B2	CE803	D2	D202	A3	FB209	C1	FB801	A1	IC601	A1	Q203	A3	R202	A2	R219	A3	R234	C1	R253	C1	R279	C1	R294	A3	R602	A4	R803	C2	R816	A2	R832	A1	R978	D3		
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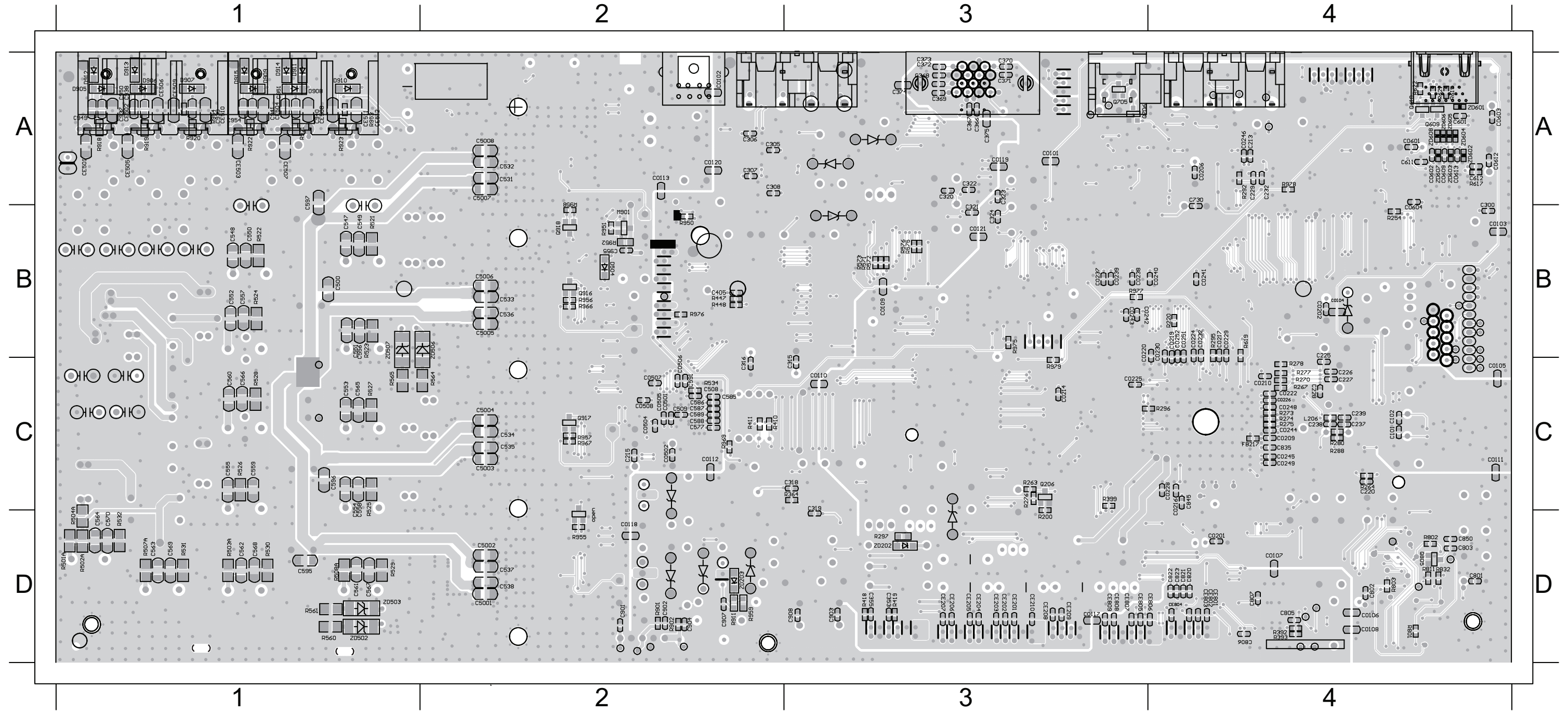
MT389HD

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C0103	D3	C0121	D4	C311	A1	C332	A1	C362	B2	C507	B3	C524	B4	C541	C4	C558	B4	C575	A4	C594	A4	C719	D2	C904	D1	C925	D2	C943	B2	CE503	C4	D504	A2	D903	B3	FB313	B1	IC502	C3	L505	B4	L703	D2	Q907	B3	R315	A1	R332	A2	R356	B1	R510	B3	R527	B4	R547	B3	R720	D2	R924	C1	R941	B3	ZD303	D1
C0104	D3	C0501	B3	C313	A1	C333	A1	C363	B2	C508	A4	C525	B4	C542	B4	C559	B4	C576	A4	C594	A4	C720	D2	C905	D1	C926	B2	C944	B3	CE504	C4	D505	A2	D904	B3	FB701	D2	IC503	C3	L506	B4	L704	D2	Q908	B3	R316	A1	R333	A2	R357	B1	R511	B3	R528	A4	R548	A3	R721	D2	R925	C2	R942	B3	ZD301	A1
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C0109	D4	C0506	A3	C320	B2	C342	A1	C5003	C4	C512	A3	C529	A4	C546	A4	C563	A4	C580	B3	C701	D2	C724	D2	C909	D1	C930	D1	C949	C2	CE508	C4	D703	D2	D908	C3	FB705	D2	JK501	C4	L510	A4	Q305	C1	R051	A3	R320	A1	R343	A2	R361	A2	R515	C4	R532	A4	R556	A3	R908	B3	R929	D2	R947	C3	ZD903	D2
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C0112	D4	C301	A1	C323	B2	C346	B2	C5006	C4	C515	C3	C532	C4	C549	C4	C566	A4	C583	B3	C704	D2	C727	D2	C912	D2	C933	D2	C952	C1	CE511	C4	D706	D2	D911	C3	FB904	C1	JK702	D2	L513	C4	Q502	A3	R303	A1	R323	A1	R346	A1	R378	B2	R518	A4	R537	A2	R572	A3	R912	C2	R932	B3	R959	D1	ZD906	C3
C0113	D4	C302	A1	C324	B2	C348	B2	C5007	C4	C516	C3	C533	B4	C550	C4	C567	A4	C584	A2	C705	D2	C730	D2	C913	D1	C934	D1	C953	C1	CE512	C4	D707	D2	FB301	A1	FB905	C1	JP505	A4	L514	B4	Q705	D2	R304	A1	R324	A1	R348	A1	R388	A1	R519	A4	R538	A2	R573	A3	R913	C1	R933	B2	R969	A1		
C0114	D4	C303	A1	C325	A1	C349	B2	C5008	C4	C517	D3	C534	C4	C551	B4	C568	A4	C585	A2	C706	D2	C731	D3	C918	D2	C936	D2	C954	C2	CN301	A1	D708	D2	FB302	A1	FB906	B2	JP505AA4	L515	B4	Q706	D2	R305	A2	R325	A1	R349	A1	R418	B1	R520	A4	R539	A2	R701	D2	R914	D2	R934	B3	R970	C2			
C0115	D4	C304	A1	C326	A1	C352	B1	C501	A4	C518	C3	C535	B4	C552	B4	C569	A4	C586	A2	C707	D2	C732	D3	C919	D2	C937	B2	C955	D1	CN303AB1	D709	D2	FB303	A1	IC301	A1	JP507	A4	L515	B4	Q901	C1	R309	A1	R326	A1	R350	A1	R419	B1	R521	C4	R540	A2	R703	D2	R918	B2	R935	B3	R971	C1			
C0116	D4	C305	A1	C327	A1	C353	B1	C502	C3	C519	C4	C536	B4	C553	B4	C570	A4	C587	A2	C708	D2	C736	D2	C920	D1	C938	B2	C956	B3	CN304	A1	D710	D2	FB304	A1	IC302	A1	JP507AA4	L516	B4	Q902	D2	R310	A1	R327	A1	R351	B1	R504	A4	R522	C4	R541	A2	R706	D2	R919	B2	R936	B3	R973	C2			
C0117	D4	C306	A1	C328	A1	C354	B1	C503	C3	C520	C4	C537	A4	C554	B4	C571	C4	C588	A2	C709	D2	C737	D2	C921	D1	C939	B2	C957	A3	CN902	B3	D711	D2	FB307	B2	IC304	A1	L501	C4	L517	A4	Q903	D1	R311	A1	R328	A1	R352	B1	R506	C3	R523	B4	R542	A2	R716	D2	R920	B2	R937	B2	R974	C1		
C0118	D4	C307	A1	C329	A1	C355	B1	C504	B3	C521	C4	C538	A4	C555	A3	C572	B4	C589	A2	C716	D2	C901	D1	C922	D1	C940	B2	C958	B3	D304	C1	D712	D2	FB308	B2	IC305	A1	L502	C4	L518	A4	Q904	C2	R312	A1	R329	A2	R353	B1	R507	C2	R524	B4	R543	A2	R717	D2	R921	B2	R938	B2	R976	A1		



PCB Layout Bottom View

C0101	A3	C0118	D2	C0220	B3	C0241	B4	C0505	C2	C220	C4	C308	A2	C5003	C2	C536	B2	C557	B1	C570	D1	C612	A4	C845	C4	C950	A1	CE210	D3	CE801	D4	D909	A1	R280	C4	R525	C1	R622	A4	R952	B2
C0102	A2	C0119	A3	C0222	C4	C0242	B3	C0506	C2	C225	B4	C315	C3	C5004	C2	C537	D2	C558	C1	C577	C2	C730	A4	C901	D2	C951	A1	CE501	A1	CE802	D4	D910	A1	R288	C4	R526	C1	R801	D4	R959	D2
C0103	B4	C0120	A2	C0224	B4	C0243	B3	C0507	C2	C226	C4	C316	C2	C5005	B2	C538	D2	C559	C1	C585	C2	C801	D4	C902	D2	C954	A1	CE502	A1	CE803	D4	D911	A1	R292	A4	R527	C1	R802	D4	R969	C2
C0104	B4	C0121	B3	C0225	C3	C0244	C4	C0508	C2	C227	C4	C320	A3	C5006	B2	C547	B1	C560	C1	C586	C2	C802	D4	C903	D3	C955	B2	CE503	A1	CE804	D4	FB217	C4	R297	D3	R528	C1	R803	D4	R975	B3
C0105	C4	C0201	D4	C0226	C4	C0245	C4	C0601	A4	C228	C4	C321	B3	C5007	A2	C548	B1	C561	D1	C587	C2	C803	D4	C904	D2	CE201	D2	CE504	A1	CE805	D3	Q609	A4	R392	D4	R529	D1	R811	D4	R976	B2
C0106	D4	C0202	B4	C0228	C4	C0246	A4	C0602	A1	C229	A4	C322	A3	C5008	A2	C549	B1	C562	D1	C588	C2	C805	D4	C907	D2	CE202	D3	CE505	A1	CE806	D3	Q610	A4	R393	D4	R530	D1	R832	D4	R977	B3
C0107	D4	C0206	A4	C0229	B4	C0248	C4	C0603	A4	C232	A4	C323	A3	C508	C2	C550	B1	C563	D1	C589	C2	C806	D4	C908	D3	CE203	D3	CE506	A1	CE808	D3	Q705	A3	R399	C3	R531	D1	R911	D2	R978	A4
C0109	B3	C0209	C4	C0230	B4	C0249	C4	C0604	A4	C237	C4	C324	B3	C509	C2	C551	B1	C564	D1	C591	C2	C807	D4	C937	A1	CE204	D3	CE507	A1	CE809	D3	Q706	A3	R418	D3	R532	D1	R918	A1	ZD202	D3
C0110	C3	C0210	C4	C0232	B4	C0251	B4	C0609	A4	C238	C4	C353	D3	C531	A2	C552	B1	C565	C1	C595	D1	C820	D4	C938	A1	CE205	D3	CE508	A1	D504	B2	Q805	D4	R419	D3	R534	C2	R919	A1	ZD203	D2
C0111	C4	C0214	B3	C0237	B3	C0252	B4	C0612	A4	C300	B4	C355	D3	C532	A2	C553	C1	C566	C1	C596	C1	C821	D4	C939	A1	CE206	D3	CE509	A1	D905	A1	R200	C3	R521	B1	R571	B3	R920	A1		
C0112	C2	C0216	C4	C0238	B3	C0501	C2	C0613	A4	C305	A2	C500	B1	C533	B2	C554	C1	C567	D1	C597	A1	C822	D4	C940	A1	CE207	D3	CE510	A1	D906	A1	R220	B4	R522	B1	R572	B3	R921	A1		
C0113	A2	C0217	B4	C0239	B3	C0502	C2	C213	A4	C306	A3	C5001	D2	C534	C2	C555	C1	C568	D1	C601	A4	C823	D4	C941	A1	CE208	D3	CE511	A1	D907	A1	R264	C4	R523	B1	R573	B3	R922	A1		
C0117	D3	C0219	B4	C0240	B4	C0504	C2	C215	C2	C307	A2	C5002	D2	C535	C2	C556	B1	C569	D1	C611	A4	C835	C4	C949	A1	CE209	D3	CE512	A1	D908	A1	R276	C3	R524	B1	R621	A4	R923	A1		



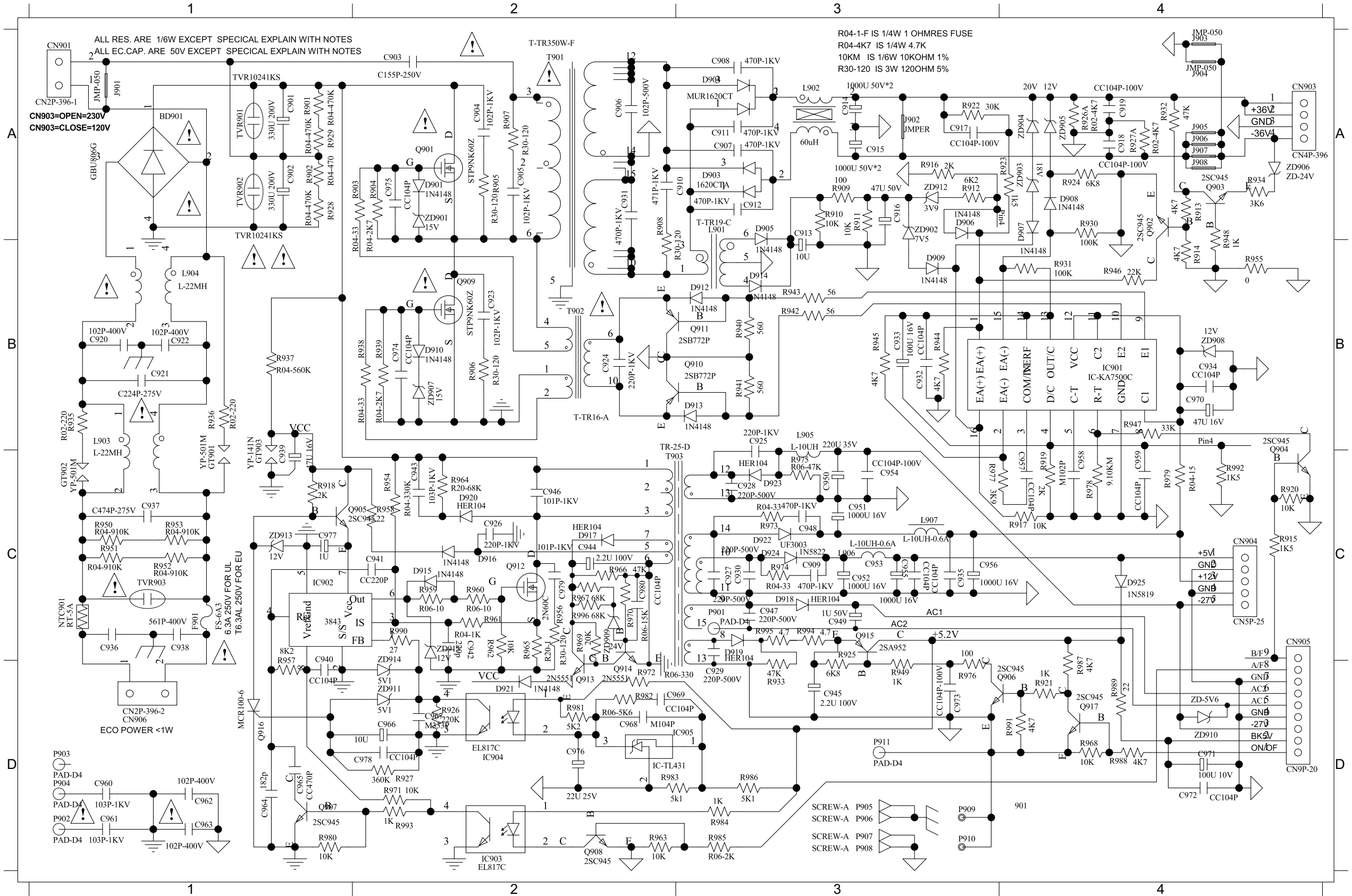
POWER BOARD

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CIRCUIT DIAGRAM

BD901	A1 C913	A3 C924	B2 C934	B4 C945	D3 C956	C3 C966	D2 C978	D2 D908	A4 D919	C3 IC901	B4 L904	B1 Q908	D2 R901	A1 R912	A3 R924	A4 R936	B1 R947	B4 R959	C2 R969	C2 R979	C4 R989	D4 TVR901	A1 ZD909	C2
C901	A1 C914	A3 C925	B3 C935	C3 C946	C2 C957	C4 C967	D2 C980	C2 D909	B3 D920	C2 IC902	C1 L905	B3 Q909	B2 R902	A1 R915	C4 R925	C3 R937	B1 R949	D3 R960	C2 R970	C2 R980	D1 R990	C2 TVR902	A1 ZD910	D4
C902	A1 C915	A3 C926	C2 C937	C1 C948	C3 C958	C4 C968	D2 CN903	A4 D910	B2 D921	D2 IC903	D2 L906	C3 Q910	B3 R903	A2 R916	A3 R926A	D2 R938	B2 R950	C1 R961	C2 R971	D2 R981	D2 R991	D4 TVR903	C1 ZD911	D2
C903	A2 C916	A3 C927	C3 C938	C1 C949	C3 C959	C4 C969	D2 CN904	C4 D912	B3 D922	C3 IC904	D2 L907	C3 Q911	B3 R904	A2 R917	C4 R927	D2 R939	B2 R951	C1 R962	C2 R972	D2 R982	D2 R993	D2 ZD901	A2 ZD912	A3
C904	A2 C917	A3 C928	C3 C939	C1 C950	C3 C960	D1 C970	B4 CN905	C4 D913	B3 D923	C3 IC905	D2 NTC901	C1 Q912	C2 R905	A2 R918	C1 R928	A1 R940	B3 R952	C1 R963	D2 R973	C3 R983	D2 R994	C3 ZD902	A3 ZD913	C1
C906	A2 C919	A4 C929	D3 C940	D1 C951	C3 C961	D1 C971	D4 CN906	D1 D914	B3 D924	C3 J903	A4 Q901	A2 Q913	D2 R906	B2 R919	C4 R929	A1 R941	B3 R953	C1 R964	C2 R974	C3 R984	D3 R995	C3 ZD903	A4 ZD914	D2
C908	A3 C920	B1 C930	C3 C941	C2 C952	C3 C962	D1 C972	D4 D901	A2 D915	C2 D925	C4 J904	A4 Q904	C4 Q914	D2 R908	A2 R920	C4 R930	A4 R942	B3 R954	C2 R965	C2 R975	C3 R985	D3 R996	C2 ZD904	A4	
C909	C3 C921	B1 C931	A2 C942	C2 C953	C3 C963	D1 C973	D3 D904	A3 D916	C2 F901	C1 L901	B3 Q905	C1 Q915	C3 R909	A3 R921	D4 R931	B4 R943	B3 R955	B4 R966	C2 R976	D3 R986	D3 T901	A2 ZD905	A4	
C910	A3 C922	B1 C932	B3 C943	C2 C954	C3 C964	D1 C976	D2 D905	A3 D917	C2 GT901	C1 L902	A3 Q906	D3 Q916	D1 R910	A3 R922	A3 R933	D3 R944	B3 R957	D1 R967	C2 R977	C3 R987	D4 T902	B2 ZD907	B2	
C911	A3 C923	B2 C933	B3 C944	C2 C955	C3 C965	D1 C977	C1 D907	A4 D918	C3 GT902	C1 L903	B1 Q907	D1 Q917	D4 R911	A3 R923	A4 R935	B1 R945	B3 R958	C2 R968	D4 R978	C4 R988	D4 T903	C2 ZD908	B4	

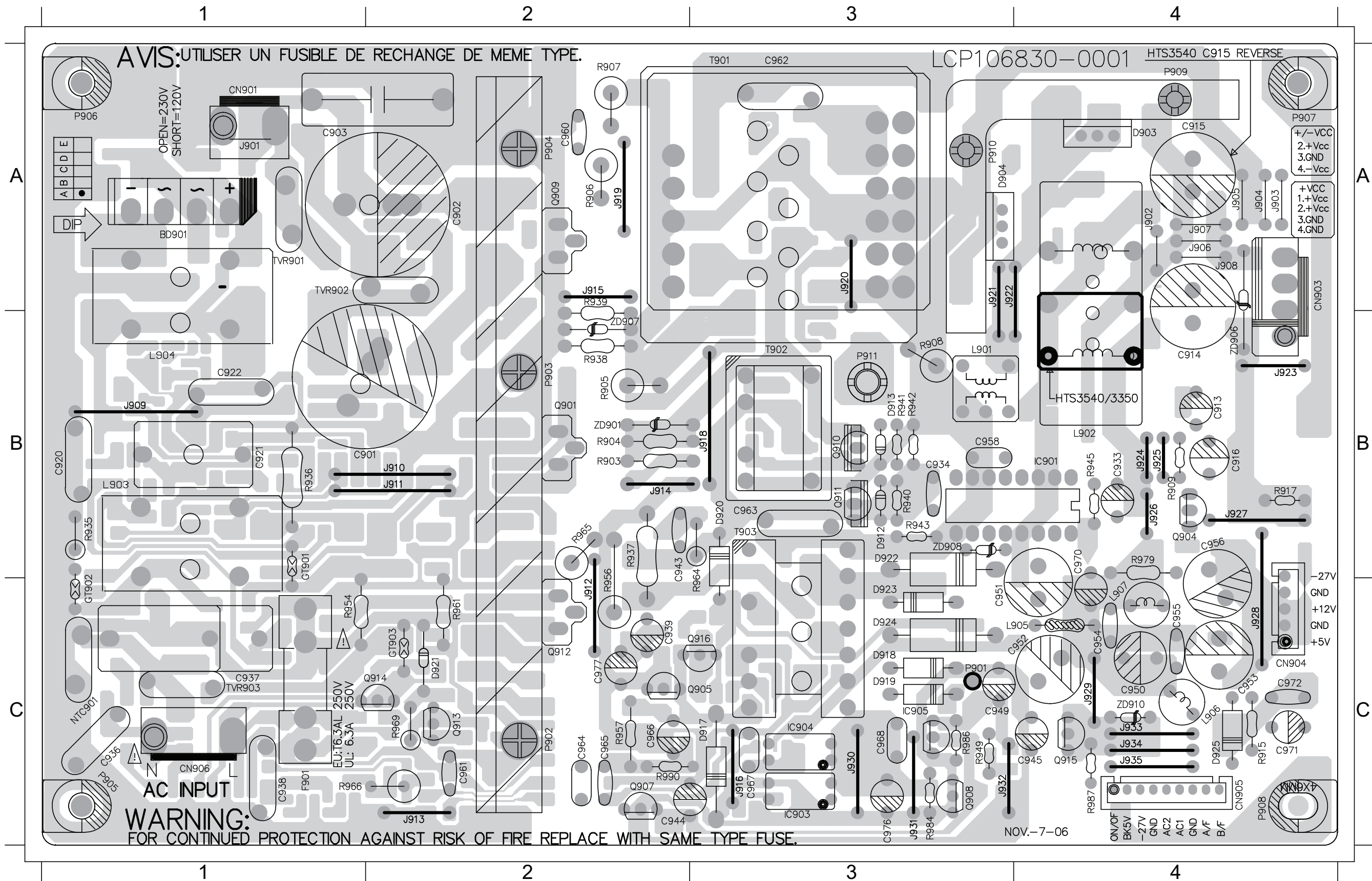


PCB LAYOUT - TOP VIEW

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BD901	A1	C920	B1	C943	B2	C954	C4	C964	C2	C976	C3	D913	B3	D924	C3	IC905	C3	J912	C2	J922	A3	J930	C3	L903	B1	Q905	C3	Q914	C2	R909	B4	R940	B3	R961	C2	R987	C4	ZD907	B2
C901	B1	C921	B1	C944	C2	C955	C4	C965	C2	C977	C2	D917	C3	D925	C4	J901	A1	J913	C2	J923	B4	J931	C3	L904	B1	Q907	C2	Q915	C4	R915	C4	R941	B3	R964	B3	R990	C2	ZD908	B3
C902	A2	C922	B1	C945	C4	C956	B4	C966	C2	CN903	A4	D918	C3	F901	C1	J902	A4	J914	B2	J924	B4	J932	C3	L905	C4	Q908	C3	Q916	C3	R917	B4	R942	B3	R965	B2	T901	A3	ZD910	C4
C903	A1	C933	B4	C949	C3	C958	B3	C967	C3	CN904	C4	D919	C3	GT901	B1	J903	A4	J915	A2	J925	B4	J933	C4	L906	C4	Q909	A2	R903	B2	R935	B1	R943	B3	R966	C1	T902	B3		
C913	B4	C934	B3	C950	C4	C960	A2	C968	C3	CN905	C4	D920	B3	GT902	C1	J904	A4	J916	C3	J926	B4	J934	C4	L907	C4	Q910	B3	R904	B2	R936	B1	R945	B4	R969	C2	T903	B3		
C914	B4	C937	C1	C951	C3	C961	C2	C970	B4	CN906	C1	D921	C2	IC901	B4	J909	B1	J918	B3	J927	B4	J935	C4	NTC901	C1	Q911	B3	R905	B2	R937	B2	R949	C3	R979	B4	TVR901	A1		
C915	A4	C938	C1	C952	C3	C962	A3	C971	C4	D904	A3	D922	B3	IC903	C3	J910	B2	J920	A3	J928	C4	L901	B3	Q901	B2	Q912	C2	R906	A2	R938	B2	R954	C1	R984	C3	TVR902	A1		
C916	B4	C939	C2	C953	C4	C963	B3	C972	C4	D912	B3	D923	C3	IC904	C3	J911	B2	J921	A3	J929	C4	L902	B4	Q904	B4	Q913	C2	R908	B3	R939	A2	R957	C2	R986	C3	ZD901	B2		

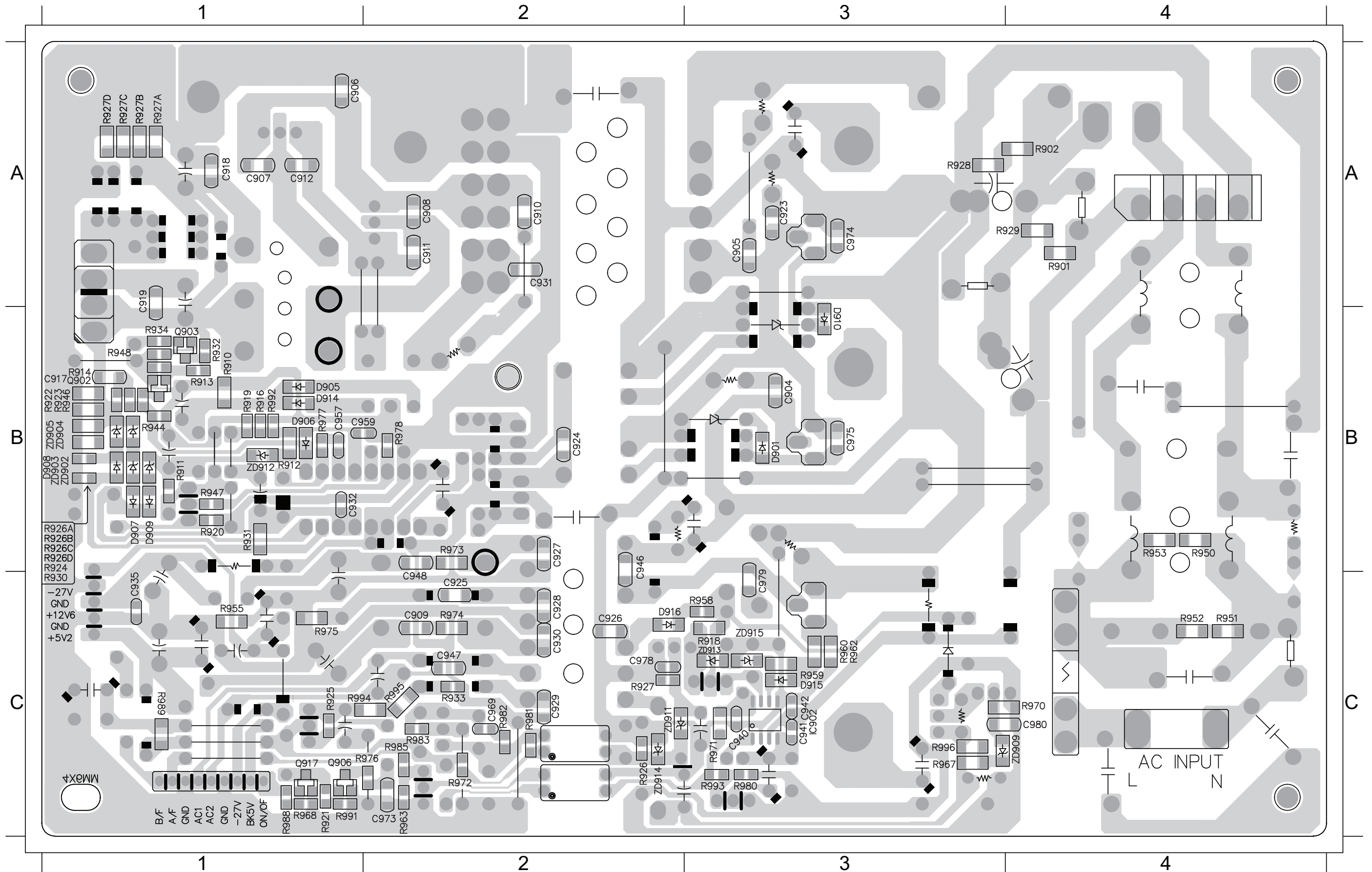


PCB LAYOUT - BOTTOM VIEW

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C904 B3	C917 B1	C927 B2	C935 C1	C957 B1	D901 B3	D915 C3	R902 A4	R919 B1	R925 C1	R928 A3	R947 B1	R958 C3	R968 C1	R975 C1	R982 C2	R993 C3	ZD902 B1	ZD911 C2
C906 A1	C919 A1	C928 C2	C940 C3	C959 B1	D905 B1	D916 C2	R910 B1	R920 B1	R926A C2	R929 A4	R950 B4	R959 C2	R970 C4	R976 C1	R983 C2	R994 C1	ZD903 B1	ZD912 B1
C908 A2	C923 A3	C929 C2	C941 C3	C969 C2	D907 B1	IC902 C3	R911 B1	R921 C1	R926B B1	R930 B1	R951 C4	R960 C3	R971 C3	R977 B1	R985 C2	R995 C2	ZD904 B1	ZD913 C3
C909 C2	C924 B2	C930 C2	C942 C3	C973 C2	D908 B1	Q906 C1	R912 B1	R922 B1	R926C B1	R931 B1	R952 C4	R962 C3	R972 C2	R978 B2	R988 C1	R996 C3	ZD905 B1	ZD914 C2
C910 A2	C925 C2	C931 A2	C946 B2	C978 C2	D909 B1	Q917 C1	R916 B1	R923 B1	R926D B1	R933 C2	R953 B4	R963 C2	R973 B2	R980 C3	R989 C1	TVR901 A4	ZD909 C4	
C911 A2	C926 C2	C932 B1	C948 C2	C980 C4	D914 B1	R901 A4	R918 C3	R924 B1	R927 C1	R944 B1	R955 C1	R967 C3	R974 C2	R981 C2	R991 C1	TVR902 A4	ZD910 B3	



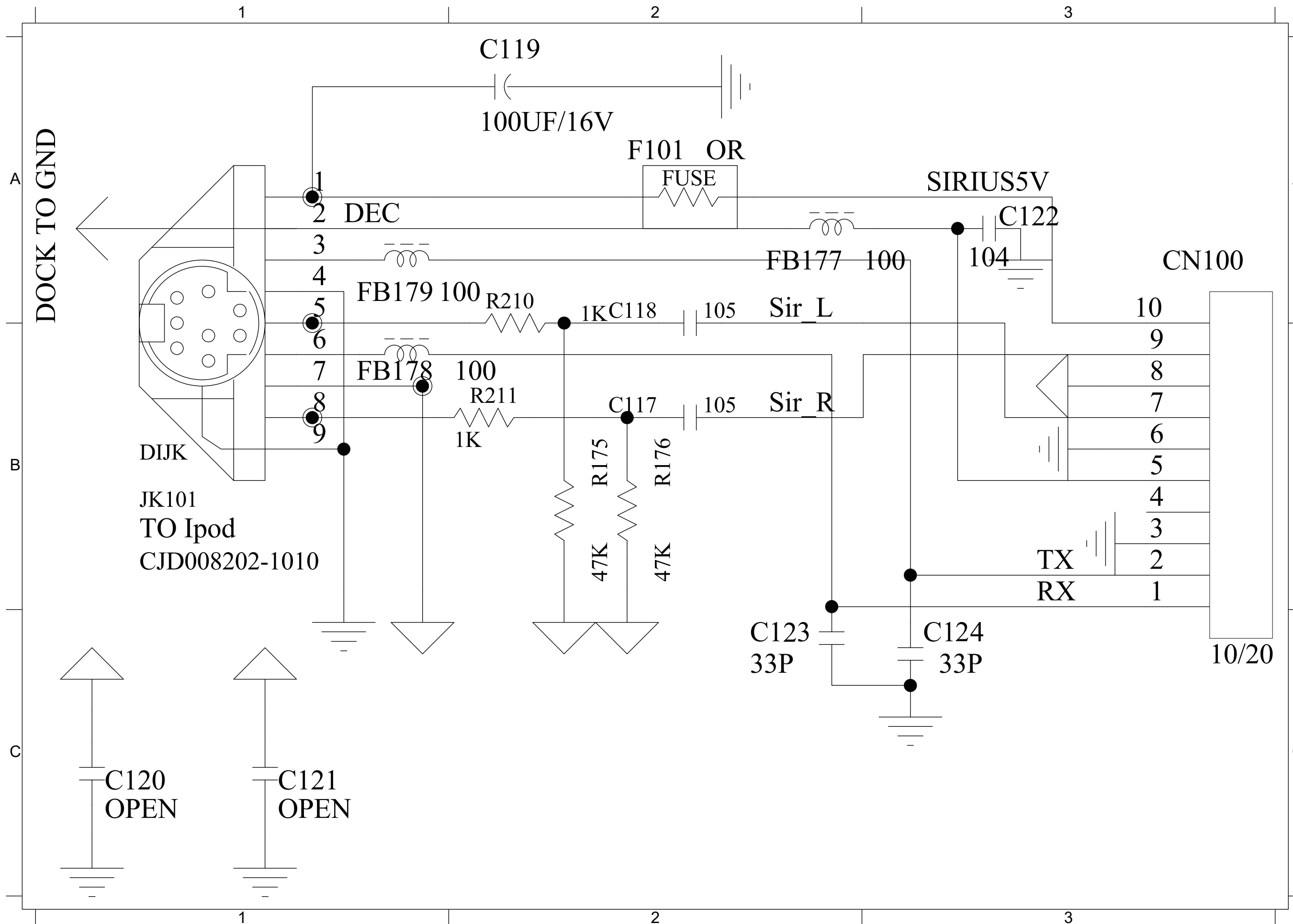
IPOD BOARD

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CIRCUIT DIAGRAM

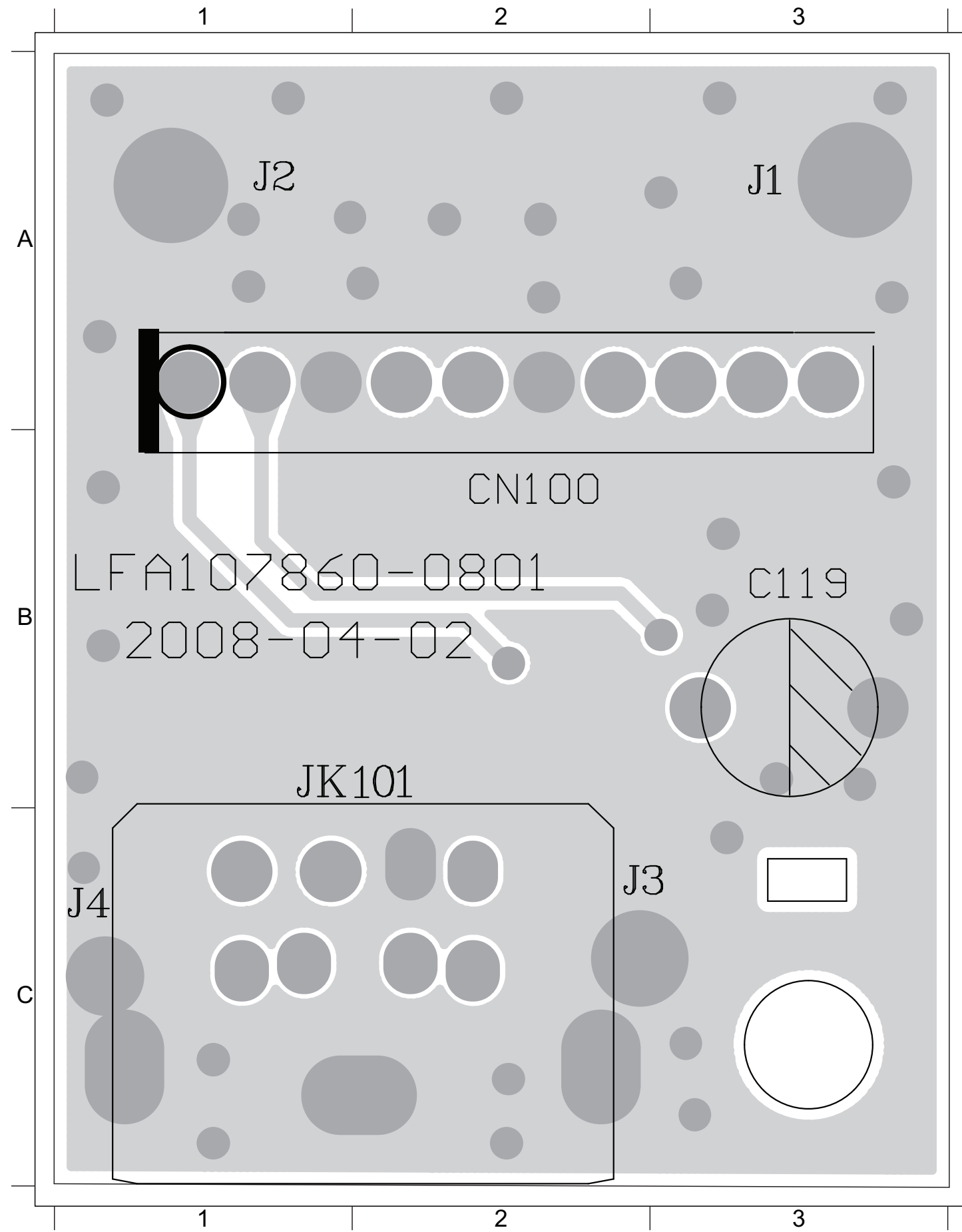
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PCB LAYOUT - TOP VIEW

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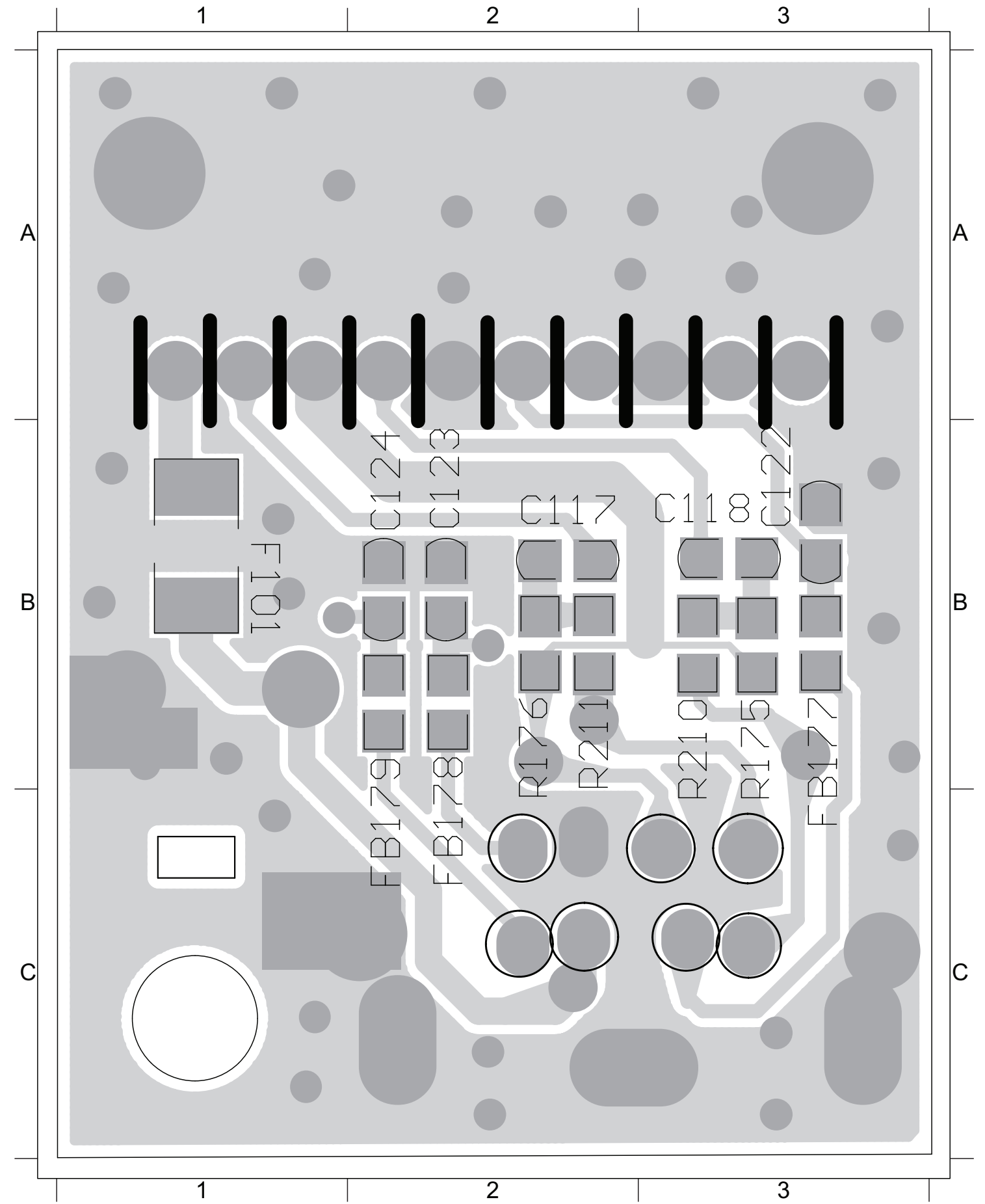
C119 B3 CN100 B2

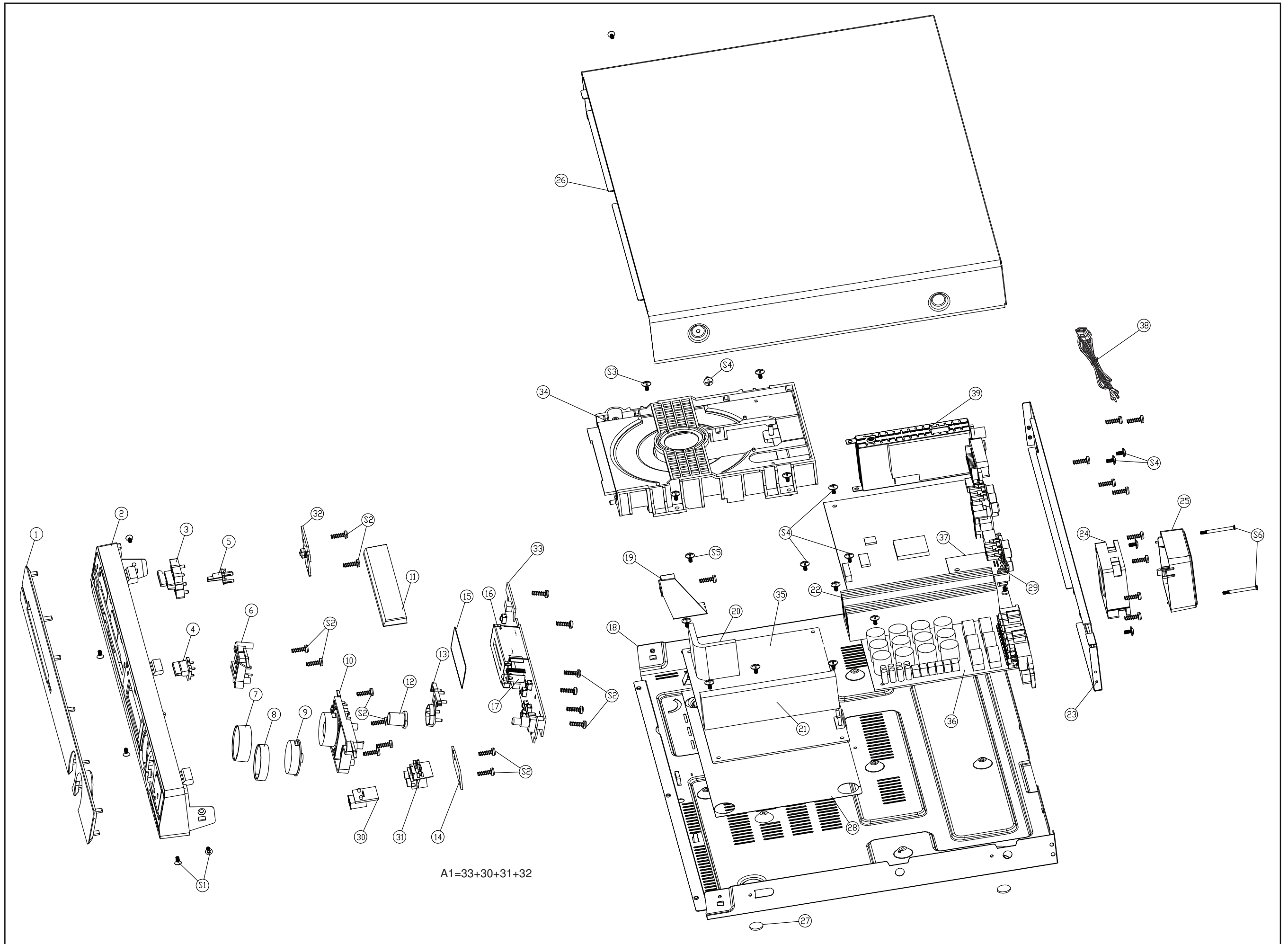


PCB LAYOUT - BOTTOM VIEW

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C117 B2 C122 B3 C124 B2 FB177 B3 FB179 B2 R175 B3 R210 B3
C118 B3 C123 B2 F101 B1 FB178 B2 JK101 B1 R176 B2 R211 B2





MECHANICAL PART LIST

Loc.	Part No.	Description
1	996510001254	DISPLAY LENS
2	996510016361	FRONT PANEL HIPS
3	996510001256	STANDY BUTTON
4	996510001257	OPEN/CLOSE BUTTON
5	996510001662	STANDY LED LENS
6	996510003834	OPEN /CLOSE BUTTON HOLDER
7	996510001259	FUNCTION BUTTON RING
8	996510001269	VOLUME KNOB RING
9	996510001261	VOLUME KNOB RING
10	996510001262	FUNCTION BUTTON
11	996510016360	DVD DOOR ABS
12	996510007576	SOURCE BUTTON
13	996510003836	SOURCE BUTTON HOLDER
15	996510003837	VFD FILTER
18	996510016363	BOTTOM CAB SECC
23	996510016362	BACK PANEL SECC
24	996500042571	FAN DC 12V 0.1A 4000RPM
25	996510001615	FAN COVER
26	996510007321	TOP CAB
27	994000005305	RUBBER FOOT
28	996510003875	PVC SHEET
34	996510010819	DVD LOADER
35	996510016357	POWER PCB ASS'Y
36	996510016358	MAIN PCB ASS'Y
37	996510016359	IPOD PCB ASS'Y
38	996510001252	PWR CORD
39	996510016364	TUNER PACK
A1	996510016356	CTRL+USB+PHONEJACK+STANDBY+BKT
DOCK	996510010855	SIMPLE IPOD DOCK
FM	996510008251	FM ANTENNA 1000MM
VIDEO	996500013058	RCA CABLE 2P 1.2M
V3	996510013767	FFC CABLE 24P
V1	996510007429	FFCCBLE 10P
RC	996510001263	REMOTE CONTROL

SPEAKER

RFC	996510001599	RUBBER FOOT -CENTER SPK
RFF	996510001600	RUBBER FOOT-FRONT SPK
RFR	996510001601	RUBBER FOOT - REAR SPK
RFS	996500028375	RUBBER FOOT
SPKC	996510017698	SPEAKER BOX -CENTER
SPKFL	996510017699	SPEAKER BOX -FRONT LEFT
SPKFR	996510017700	SPEAKER BOX - FRONT RIGHT
SPKRL	996510017701	SPEAKER BOX- REAR LEFT
SPKRR	996510017702	SPEAKER BOX- REAR RIGHT
SUBW	996510017703	SUBWOOFER

REVISION LIST

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Version 1.0
*Initial release