

Service
Service
Service



Service Manual



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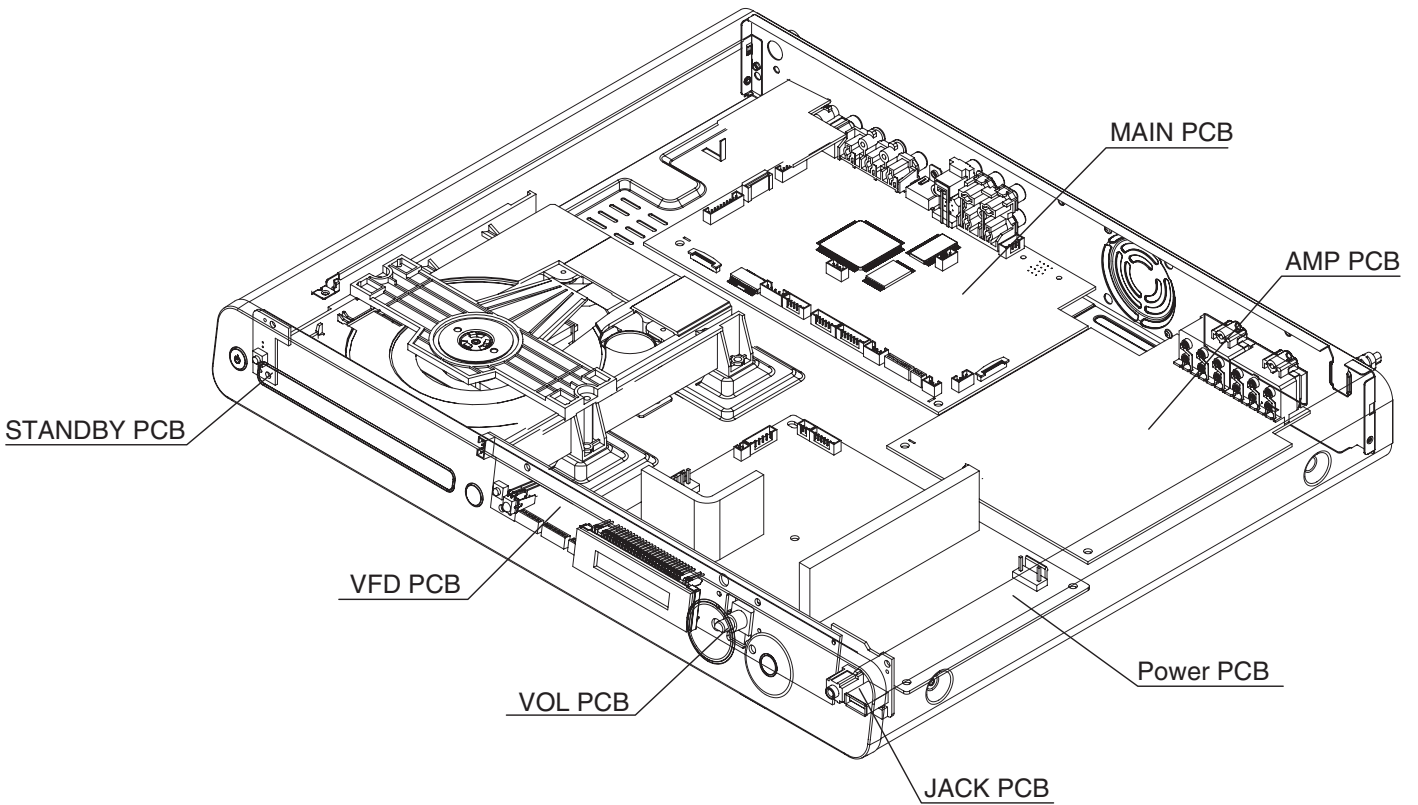
GB 3139 785 34450

Version 1.0



PHILIPS

LOCATION OF PCB BOARDS



VERSION VARIATION:

Features	Type/Versions	HTS3365X
		/78
Main(Power Output-600W)		X
S-video out		X
Power Voltage (120V/230V)		X
WMA		X

SERVICE SCENARIO MATRIX:

Boards in used	Type/Versions	HTS3365X
		/78
Main Board		C
Power Board		C
AMP Board		C
VFD+JACK+VOL+STANDBY Board		C

* C= Component

SPECIFICATIONS

AMPLIFIER

Total output power	
Home Theatre mode.....	600 W
Frequency Response	180 Hz – 18 kHz / ±3 dB
Signal-to-Noise Ratio:.....	> 60 dB (A-weighted)
Input Sensitivity	
AUX 1	400 mV
AUX 2	400 mV
MP3 LINK	400 mV

RADIO

Tuning Range	FM 87.5-108 MHz
.....	(50/100 kHz)
.....	AM/MW 530-1700 kHz
.....	(10 kHz)
.....	531-1602 kHz
.....	(9 kHz)
26 dB Quieting	
Sensitivity	FM 22 dBf,
.....	AM/MW 5000µV/m
IF Rejection Ratio	FM 60 dB, AM/MW 24 dB
Signal-to-Noise Ratio.....	FM 50 dB, AM/MW 30 dB
AM/MW Suppression Ratio	FM 30 dB
Harmonic Distortion	FM Mono 3%
.....	FM Stereo 3%
.....	AM/MW 5%
Frequency Response ...	FM 180 Hz–10 kHz / ±6 dB
Stereo Separation	FM 26 dB (1 kHz)
Stereo Threshold	FM 29 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	PAL / NTSC
Video Format.....	4:3 / 16:9
Video S/N	56 dB
Composite Video	
Output	1.0 Vp-p, 75Ω
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

USB

Compatibility	Hi-Speed USB (2.0)
Class Support.....	UMS (USB MassStorage Class)
MTP	(Media TransferProtocol)

MAIN UNIT

Power Supply Rating	110-127 V / 220-240 V~;
.....	50-60 Hz
Power Consumption	100 W
Dimensions.....	435 x 58 x 360 (mm)
.....	(w x h x d)
Weight	4kg

FRONT AND REAR SPEAKERS

System.....	Full range satellite
Impedance.....	3 Ω
Speaker drivers	3" full range speaker
Frequency response.....	150 Hz – 20 kHz
Dimensions.....	103 x 203 x 71 (mm)
.....	(w x h x d)
Weight	0.54 kg/each

CENTRE SPEAKER

System.....	Full range satellite
Impedance.....	6 Ω
Speaker drivers:	2 x 2.5" full range speaker+
.....	1 x 2" tweeter
Frequency response.....	150 Hz – 20 kHz
Dimensions.....	440 x 105 x 75 (mm)
.....	(w x h x d)
Weight	1.39 kg

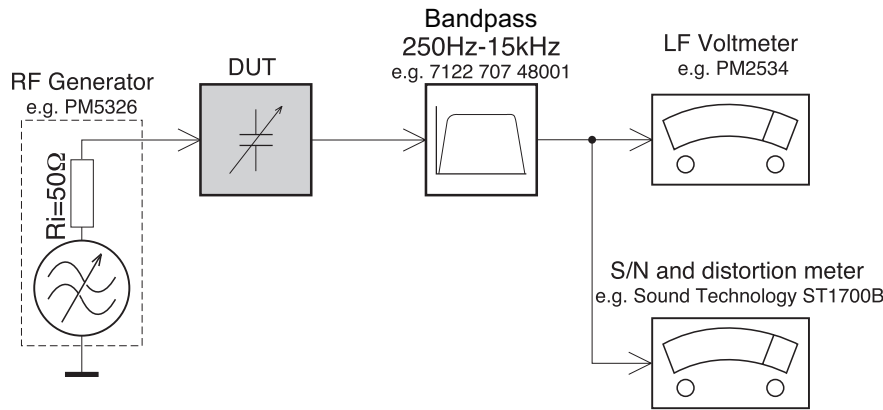
SUBWOOFER

Impedance.....	6 Ω
Speaker drivers	165mm (6.5") woofer
Frequency response.....	40 Hz – 150 Hz
Dimensions.....	163 x 363 x 369 (mm)
.....	(w x h x d)
Weight	5.08 kg

Specifications subject to change without prior notice.

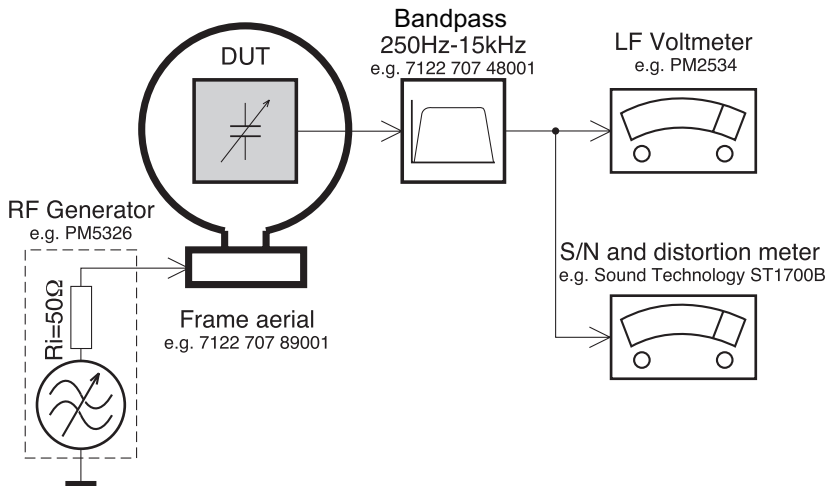
MEASUREMENT SETUP

Tuner FM



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

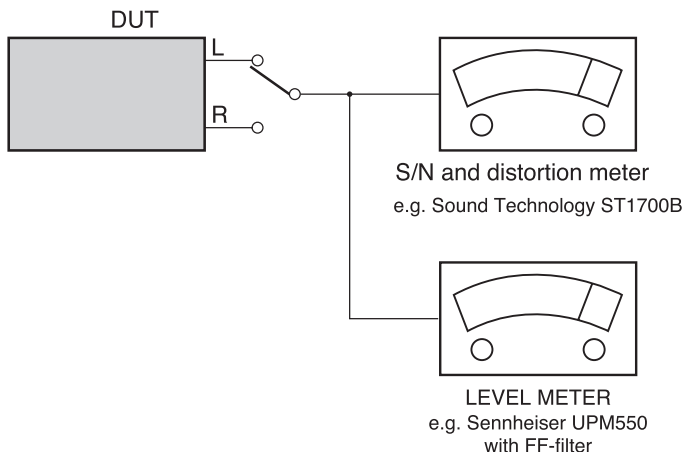
Tuner AM (MW,LW)



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 holder4822 395 91019
- Torx bit T10 150mm4822 395 50456
- Torx driver set T6-T204822 395 50145
- Torx driver T10 extended4822 395 50423

Compact Disc:

- SBC426/426A Test disc 5 + 5A4822 397 30096
- SBC442 Audio Burn-in test disc 1kHz4822 397 30155
- SBC429 Audio Signals disc4822 397 30184
- Dolby Pro-logic Test Disc4822 395 10216

HANDLING CHIP COMPONENTS

GENERAL

SOLDER CHIP COMPONENT SOLDER
COPPER TRACK P.C.B.
GLUE

SERVICE PACKAGE

DISMOUNTING

VACUUM PISTON
4822 395 10082

SOLDERING IRON
e.g. WELLER solder tip PT-H7

SOLDERING IRON
SOLDER WICK
4822 321 40042

e.g. A PAIR OF TWEEZERS

HEATING HEATING

SOLDERING IRON CLEANING

SOLDER WICK

PRECAUTIONS

SOLDERING IRON CORRECT COPPER TRACK

SOLDERING IRON CHIP COMPONENT

MOUNTING

e.g. A PAIR OF TWEEZERS

SOLDER
ø0.5-0.8mm

SOLDERING IRON PRESSURE

SOLDERING TIME
< 3 sec/side

SOLDER ø0.5-0.8mm

PRESSURE SOLDERING IRON

EXAMPLES

CORRECT

SOLDERING IRON NO!

(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 symbool Δ .

(F)

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

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 suojauslaitteiden 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-free/ 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 Prochure

1)System Reset

- press "OPTIONS" button on R/C,TV will show setup menu
- select the menu using the ▼ and ► on R/C
- go preference page to do ssystem reset

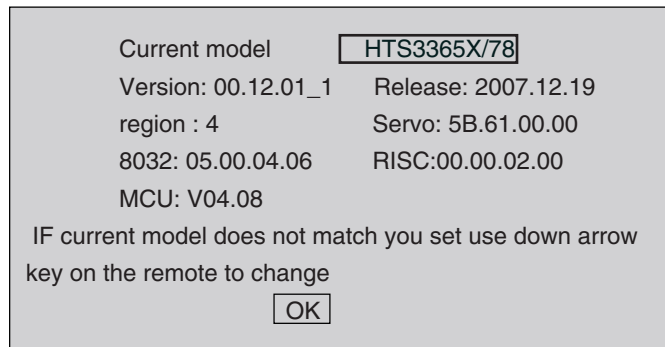
2)Region Code Change

- In open model,press"9" "9" "9" 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:



4)Password Change

- press "OPTIONS " button on R/C,TV will show setup menu
 - 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 "INFO" 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"

8) Produce to Change Tuner Grid

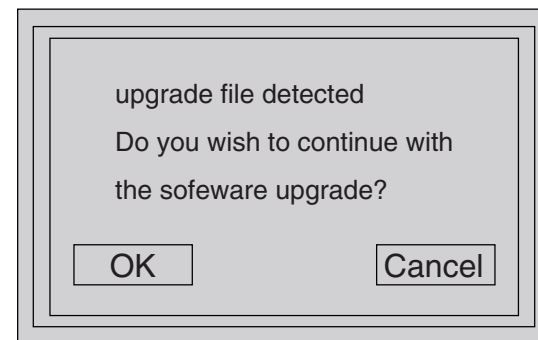
(only applicable for certain regions)

In some countries, the frequency step between adjacent channels in the (AM/MW)/FM band is 9kHz/50kHz(10kHz/100kHz in some areas).

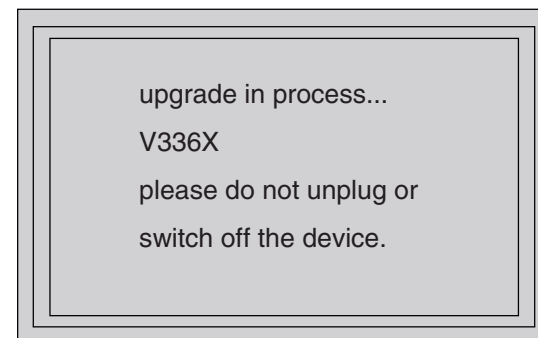
- press "source" to select "FM" or "AM"
 - In "FM" or "AM" playback mode, press & hold "play/pause" button until "Grid 9" or "Grid 10" appears
- Note: repeating the same action will toggle back to it previous tuning grid setting.
- * "Grid 10" is default for/78 version.

8) Upgrading new sofeware

- copy "sofeware files" into a CD-R disc
 - open the CD Door,then insert CD-R program disc
 - close the CD Door
 - VFD will show:
 - "Loading"
 - "Erase" -- erase the flash memory
 - "Writing" about 1 minute
 - "done "
- * the system will switch off and on again automatically.
- OSD will show:



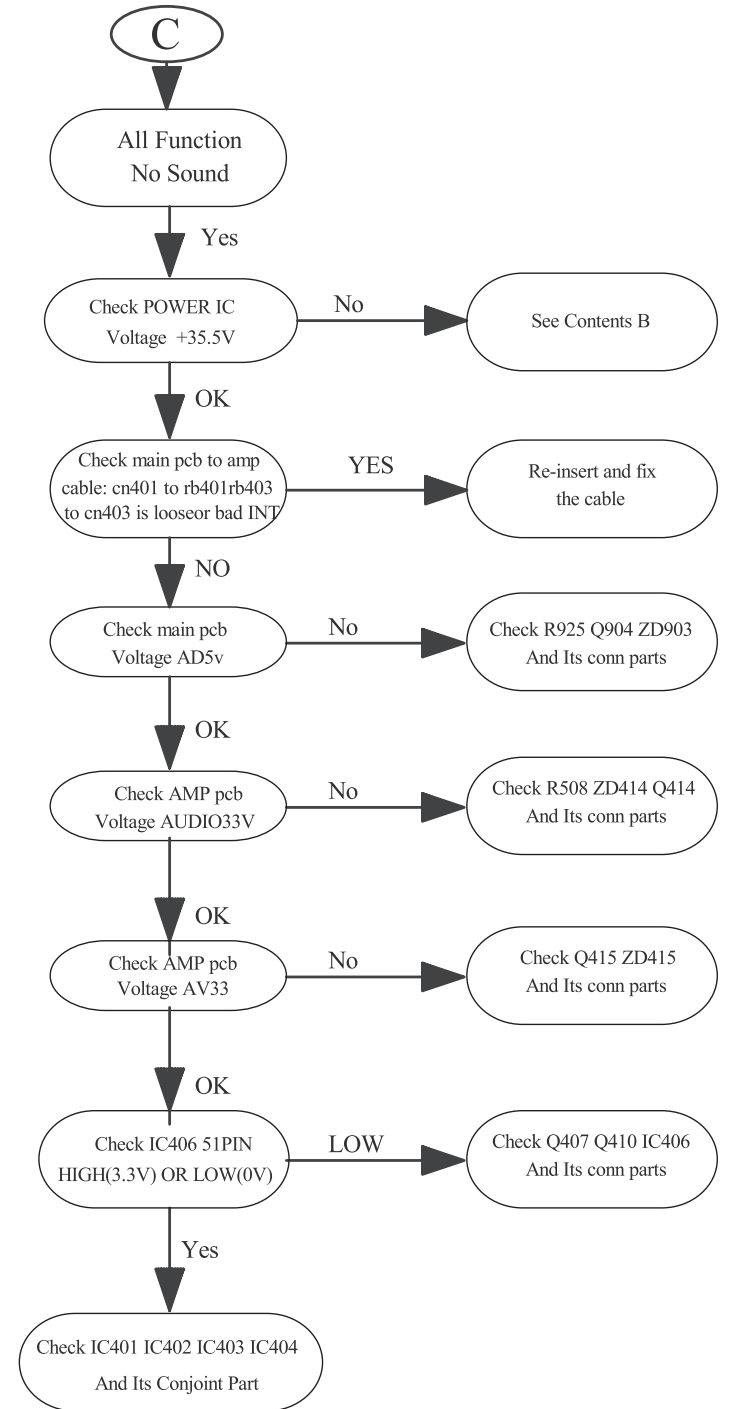
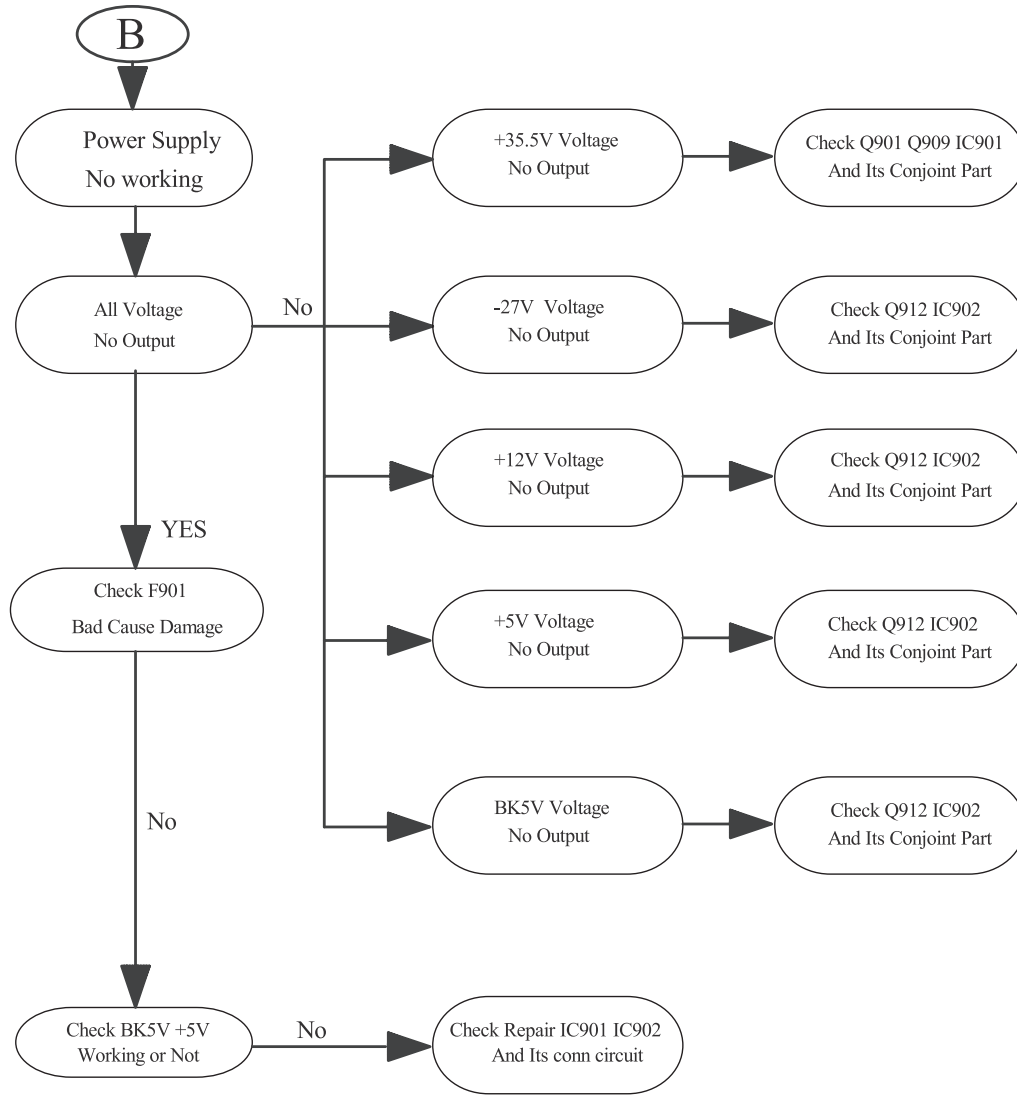
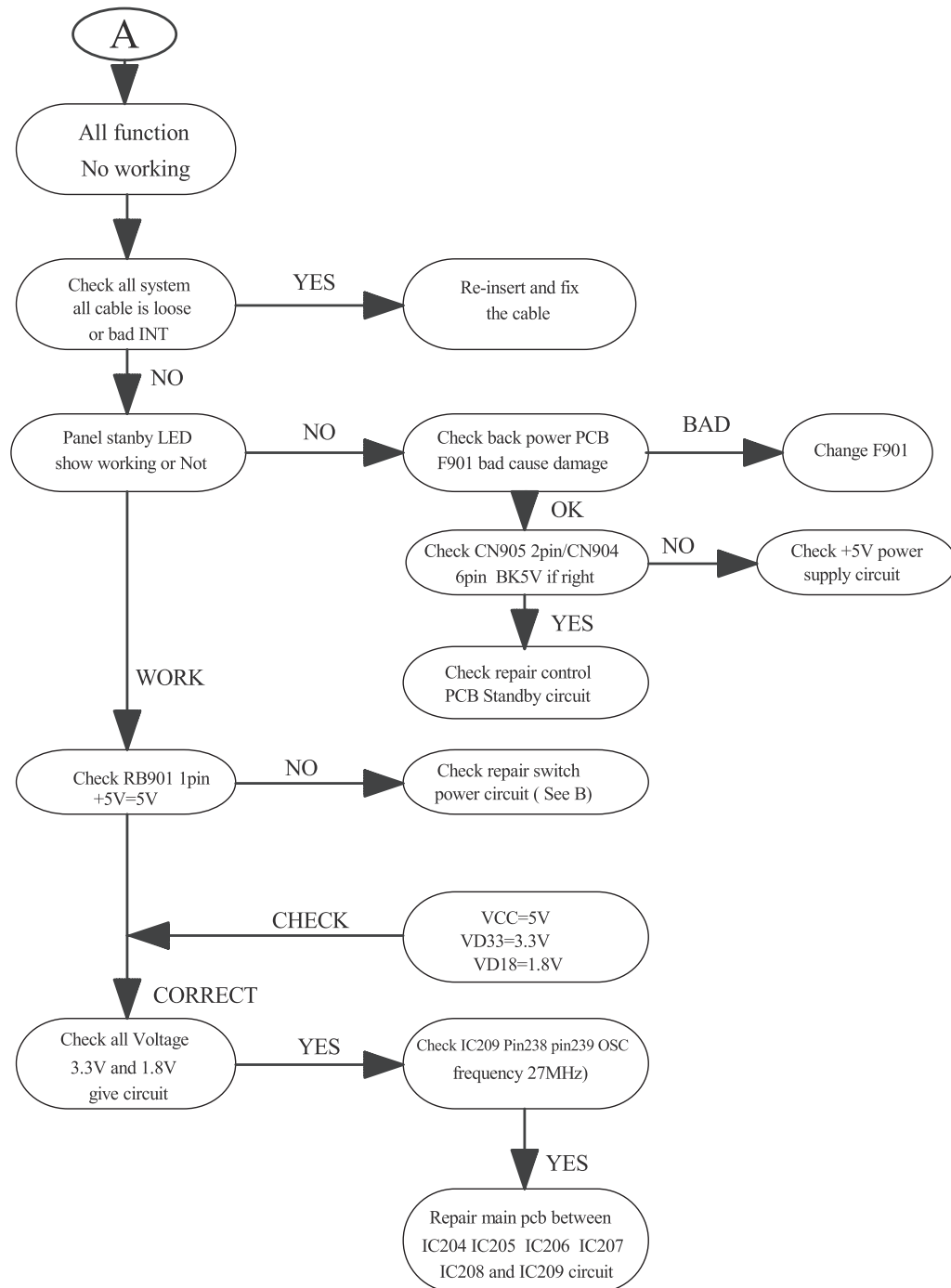
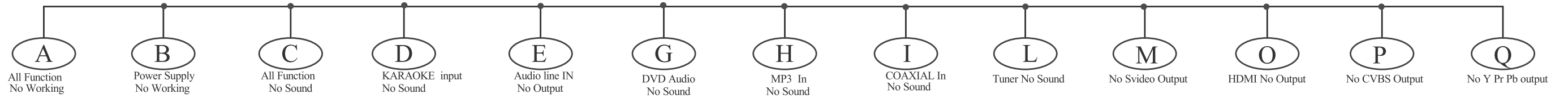
- select "OK", OSD will show:



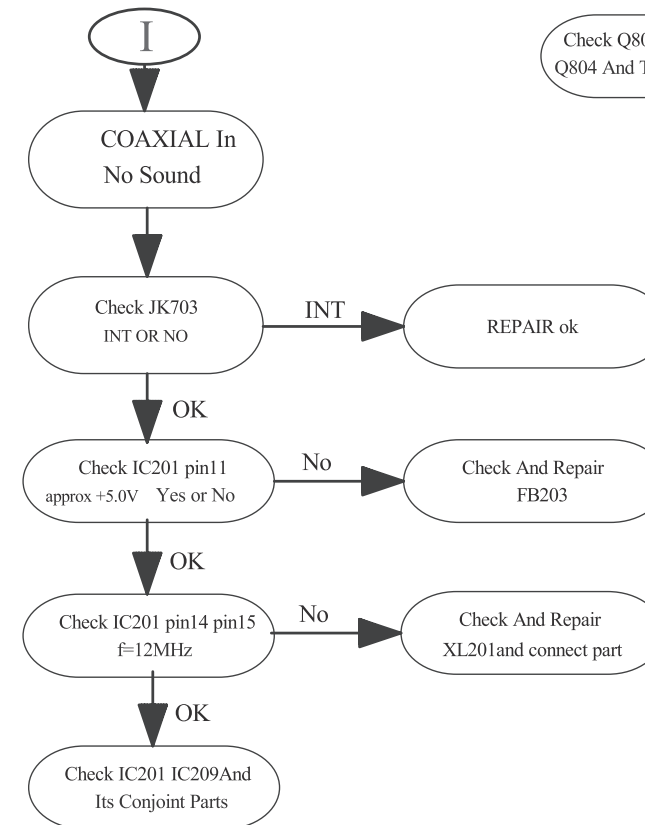
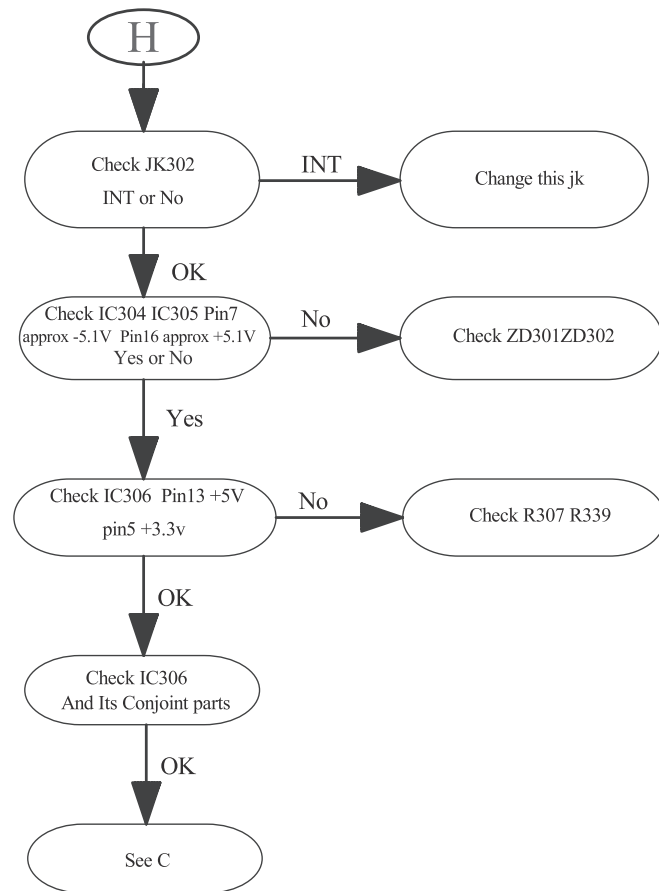
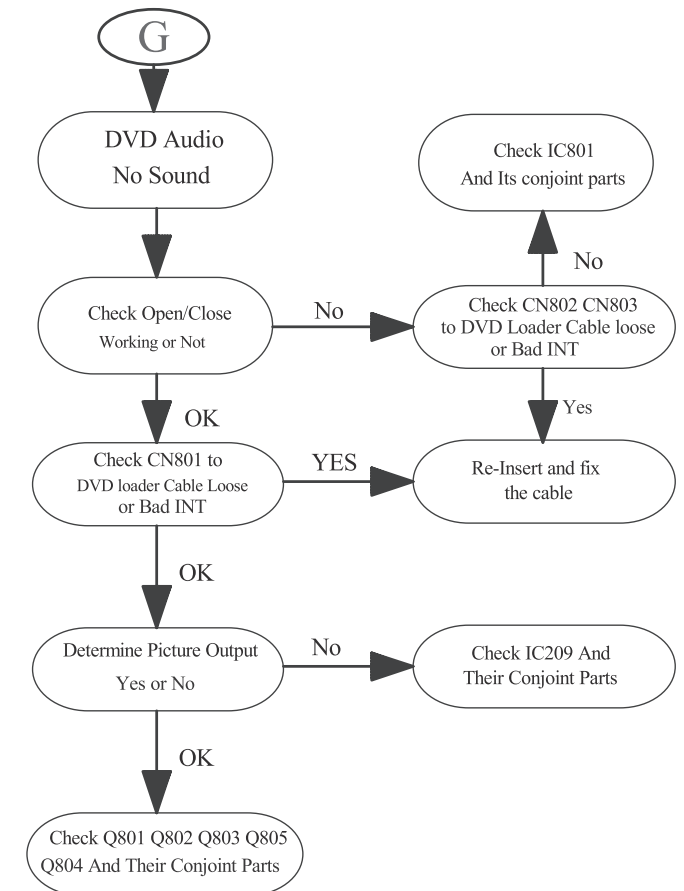
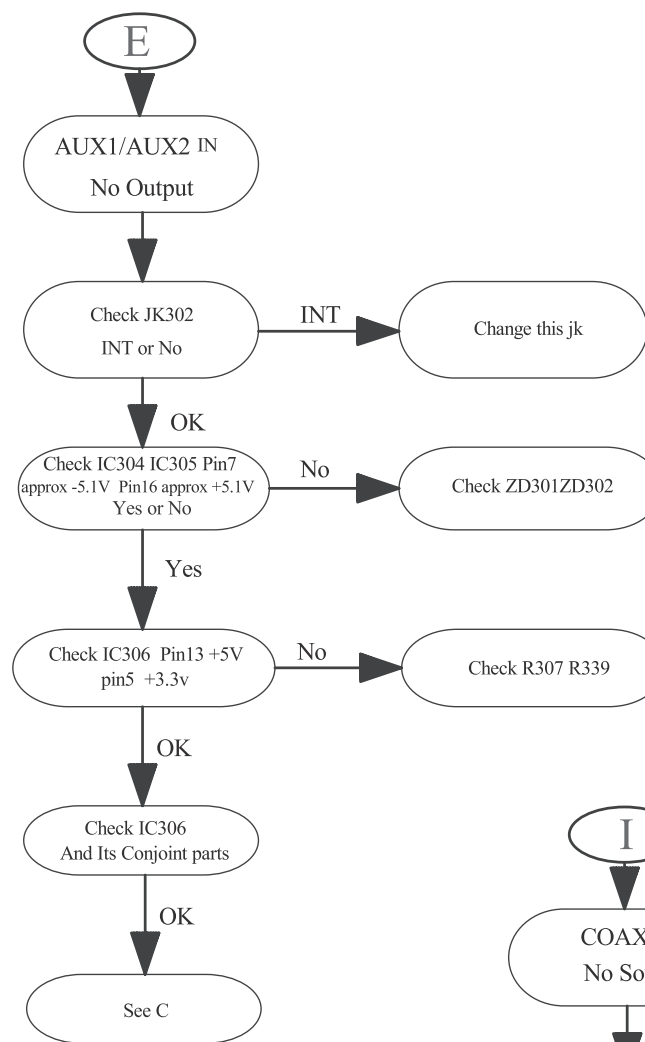
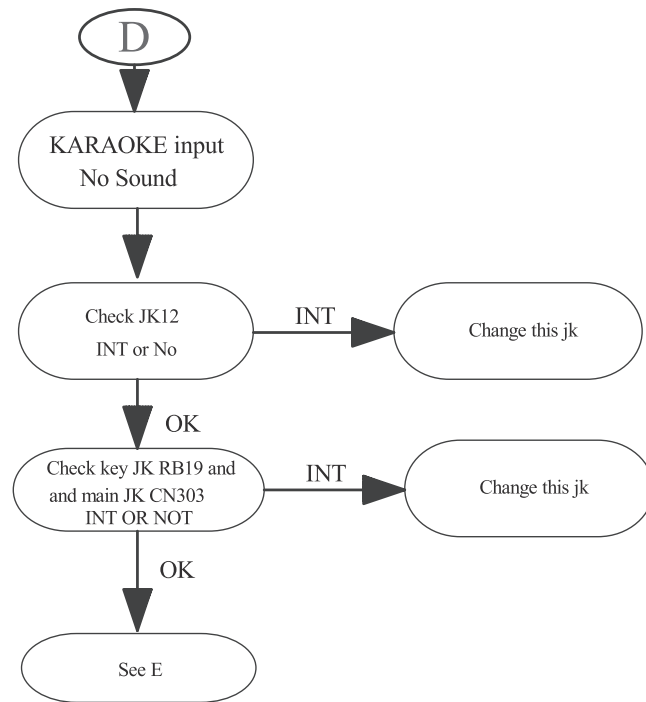
CAUTION!

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

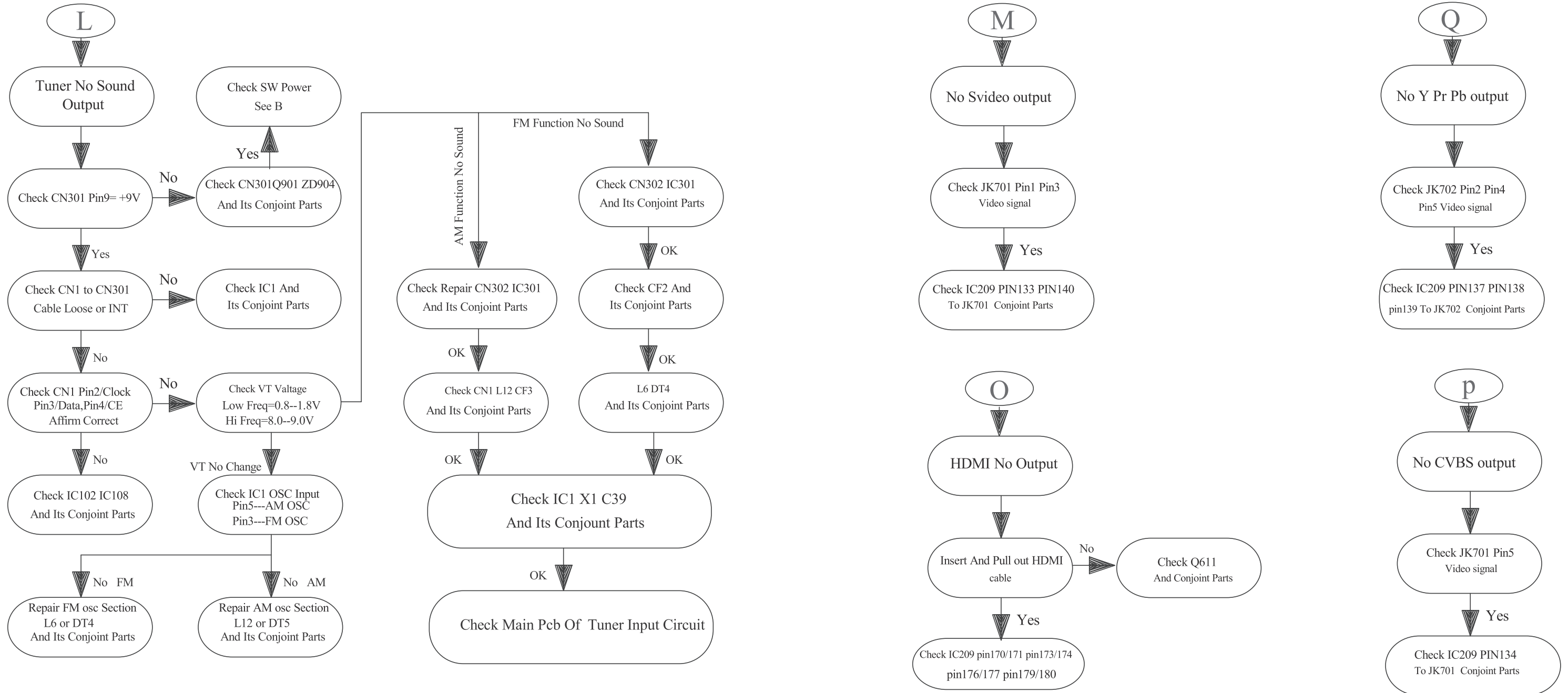
MAIN UNIT REPAIR CHART 1/3



MAIN UNIT REPAIR CHART 2/3



MAIN UNIT REPAIR CHART 3/3



DISASSEMBLY INSTRUCTIONS

Dismantling of the Front Panel Assemble

- 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.
- 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.

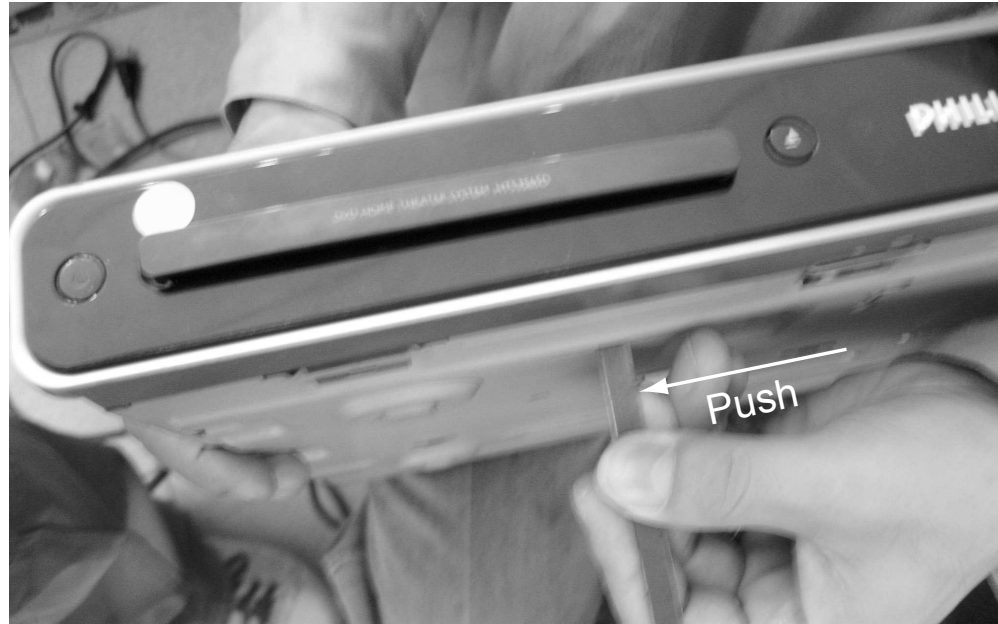


Figure 1

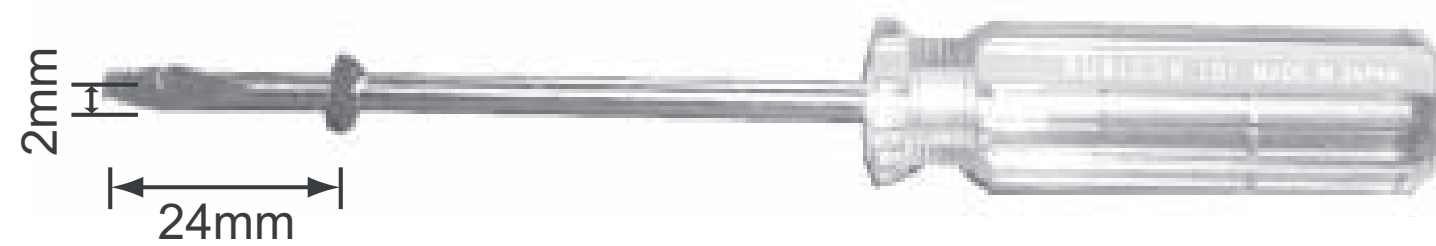


Figure 2

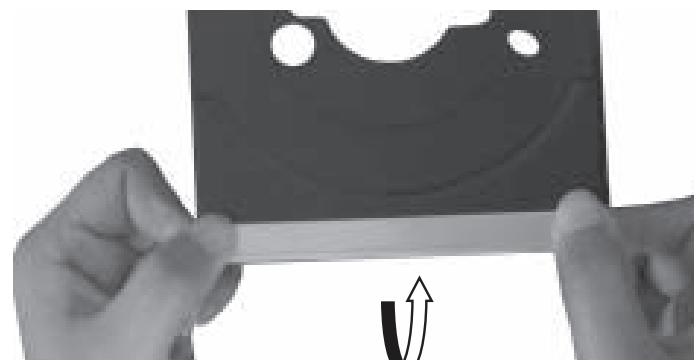


Figure 3

- 3) Loosen 7 screws and remove the Top Cover by lifting the rear portion upwards before sliding it out towards the rear.
 - 1 screw "A" each on the left & right side as shown in figure 4
 - 5 screws "B" at the back panel as shown in figure 5
- 4) Loosen 1 screw "C" each left & right side on the front panel after move the top panel as shown in figure 6.
- 5) Loosen 6 screws "D" at bracket of front panel as shown in figure 7



Figure 4

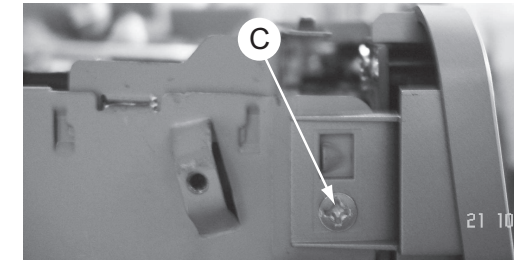


Figure 6

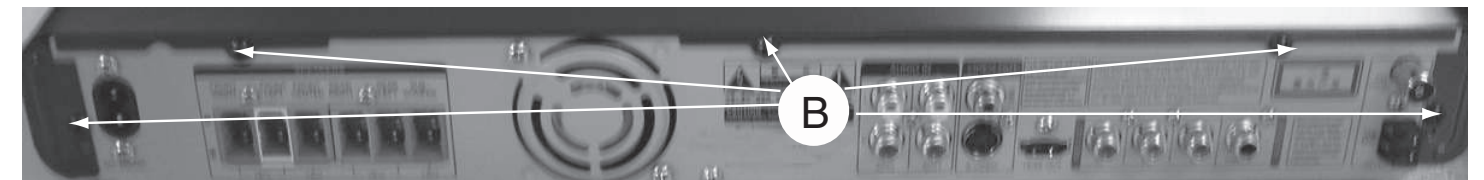


Figure 5

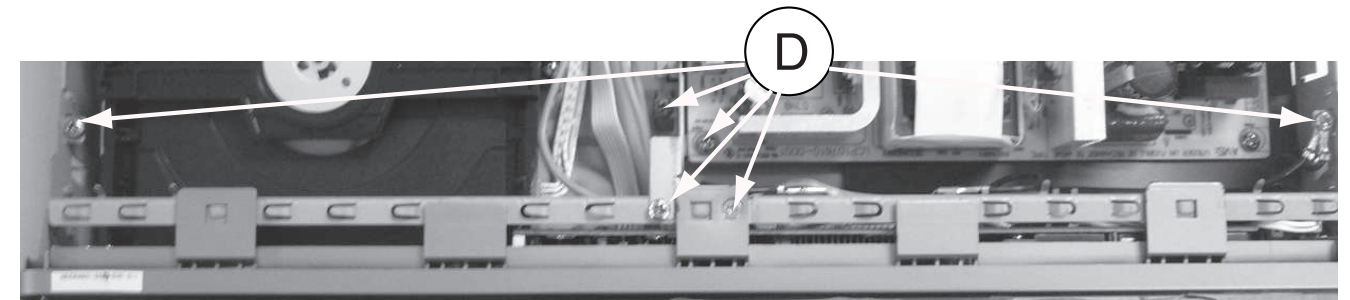


Figure 7

Dismantling of the AMP Board

- 1) Loosen 4 screws to remove the AMP Board.
 - 2 screws "E" on the top of AMP board as shown in figure 8
 - 2 screws "F" at the back panel as shown in figure 9

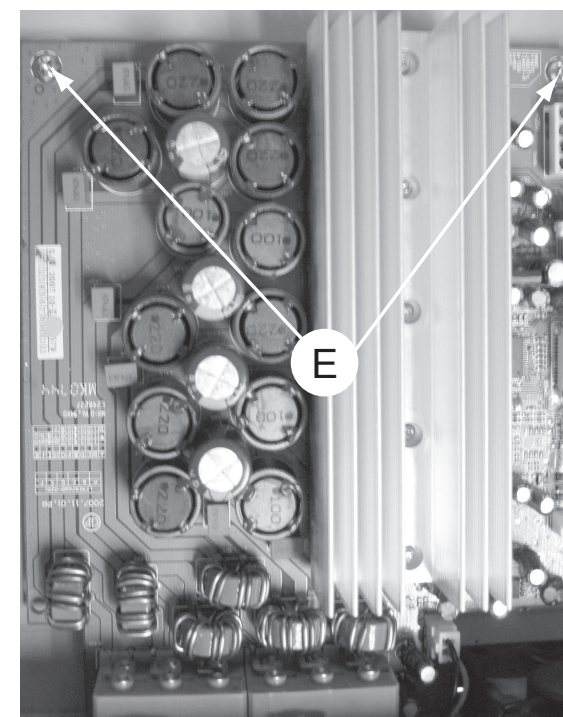


Figure 8



Figure 9

Dismantling of the Main Board

- 1) Loosen 2 screws " G " on the top of main board as shown in figure10
- 2) Loosen 7 screws "H" at the back panel as shown in figure 11

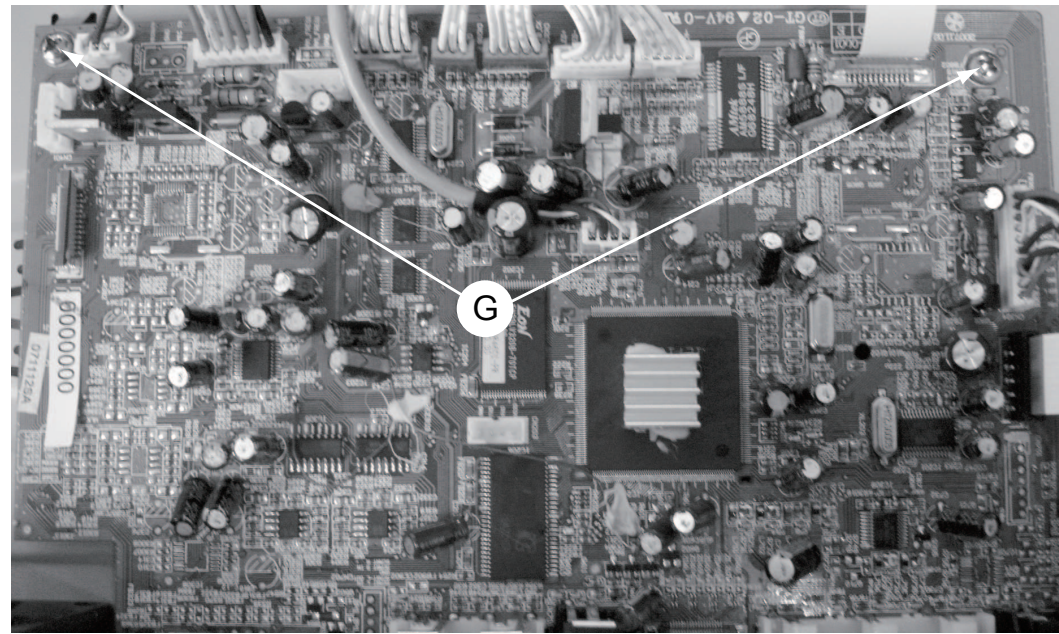


Figure 10

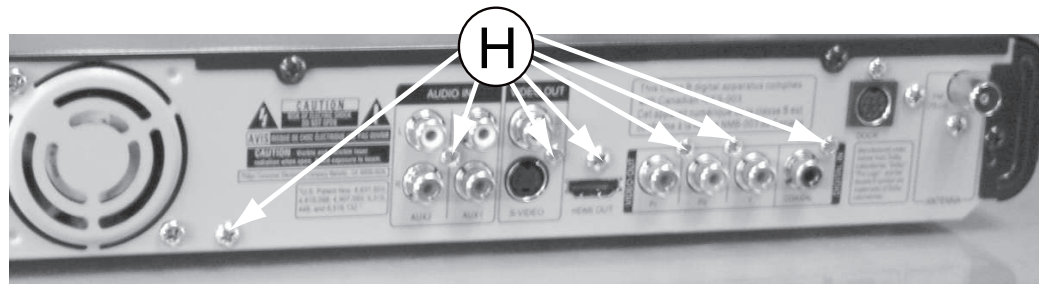


Figure 11

Dismantling of the Power Board

- 1) Loosen 4 screws " I " on the top of power board as shown in figure 12

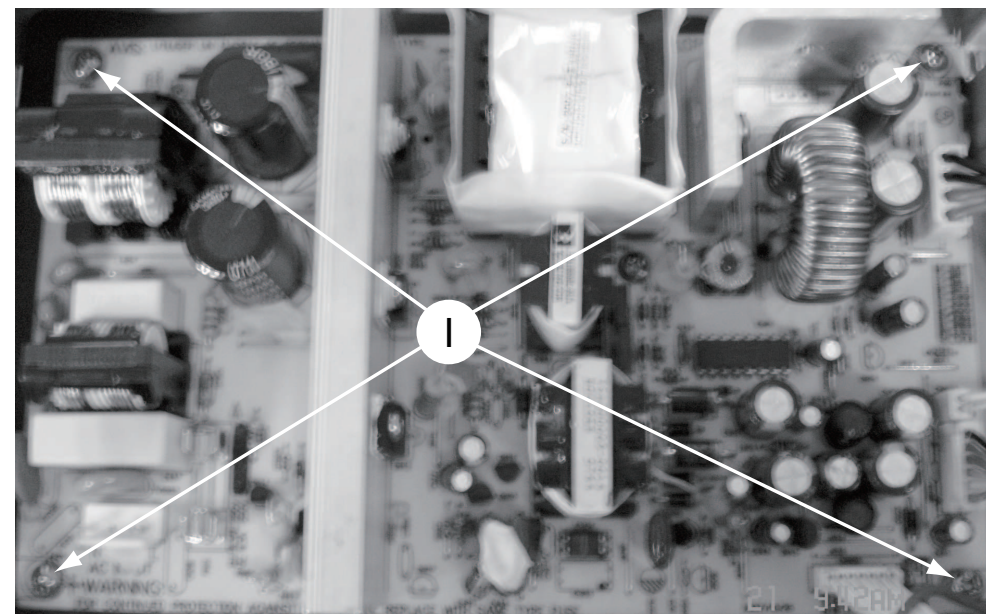


Figure 12

Dismantling of the VFD+JACK+VOL+STANDBY Board

- 1) Loosen 9 screws "J" on the top of control board as shown in 13

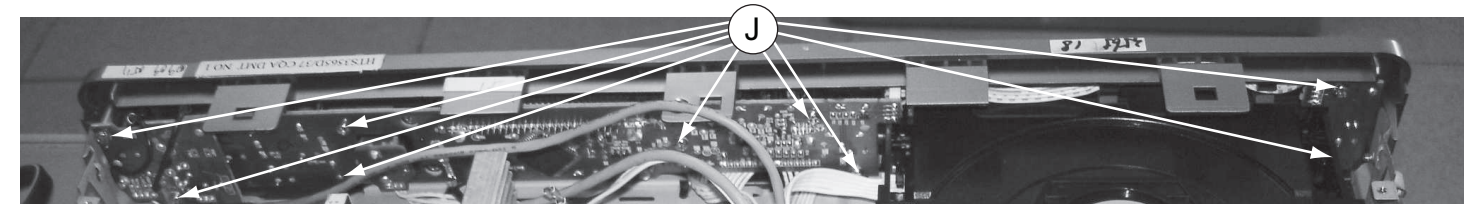


Figure 13

Dismantling of the DVD Module

- 1) Loosen 4 screws "K" as shown in figure 14.

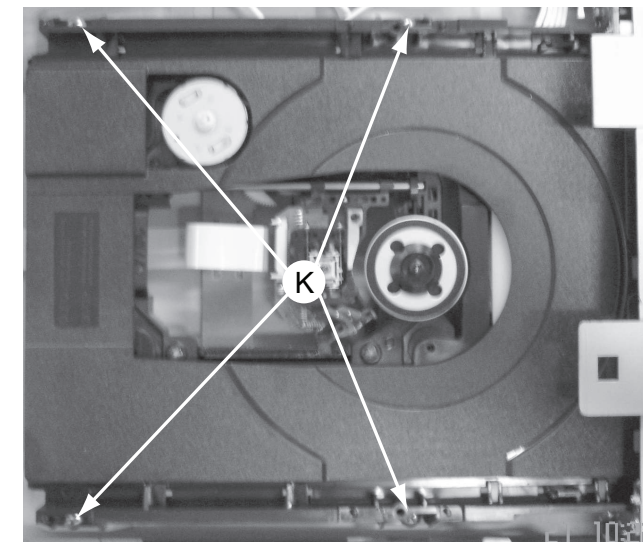
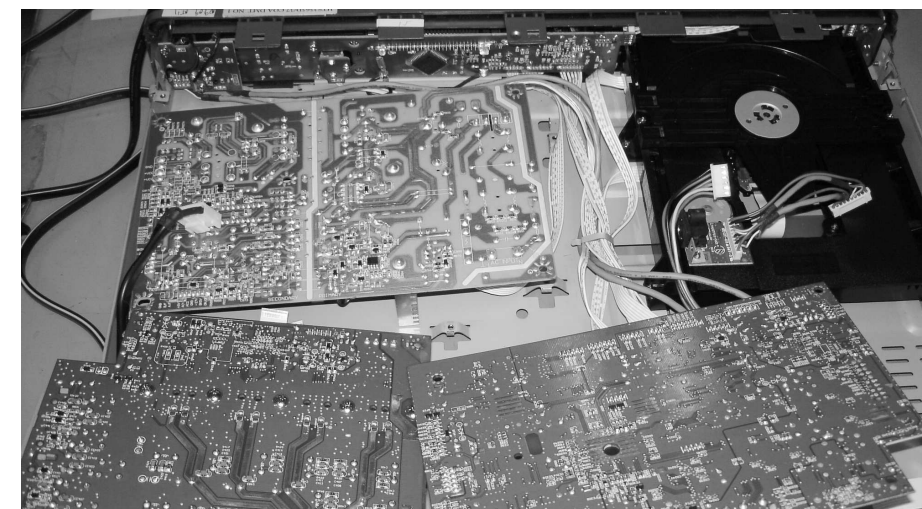


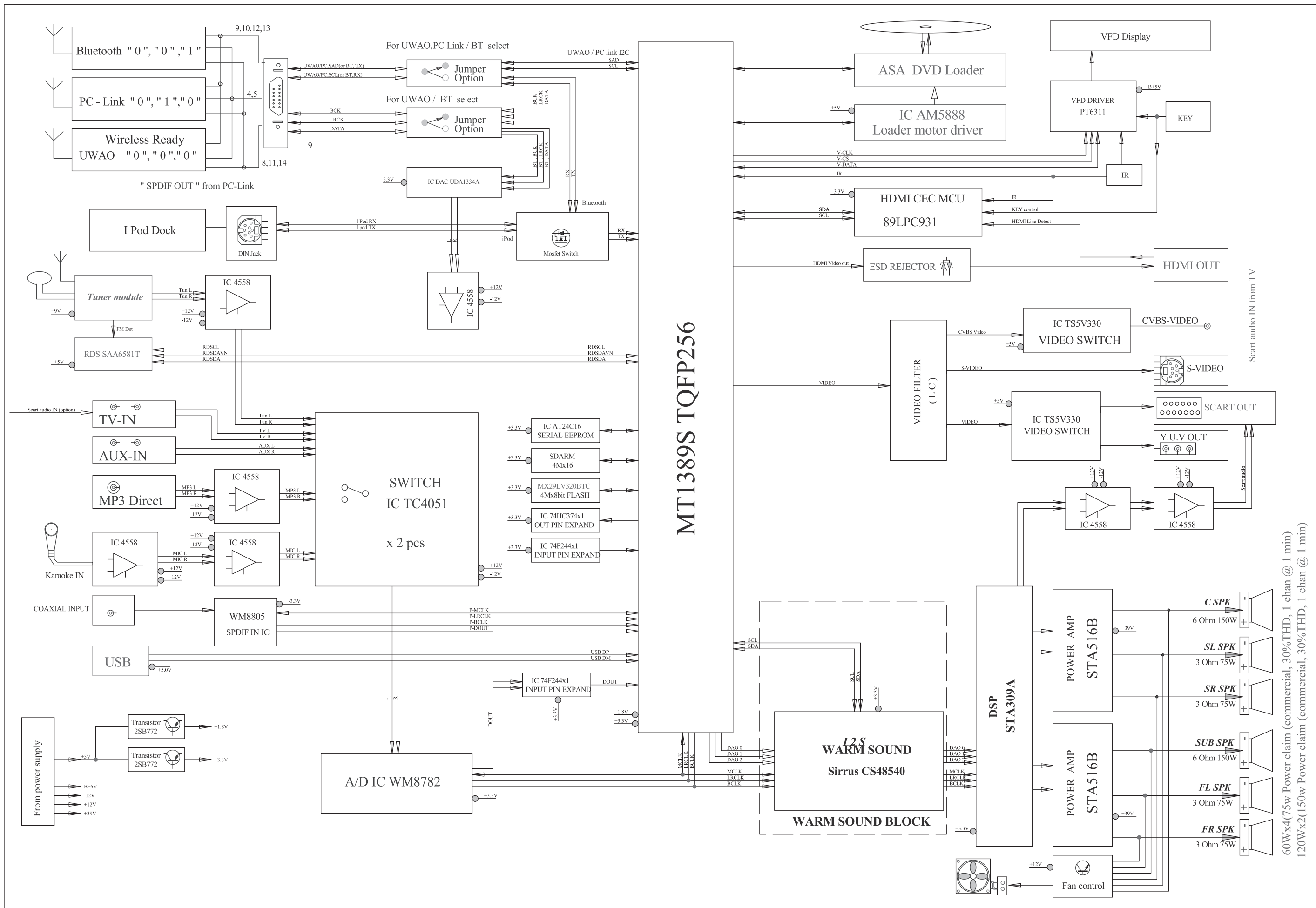
Figure 14

SERVICE POSITIONS

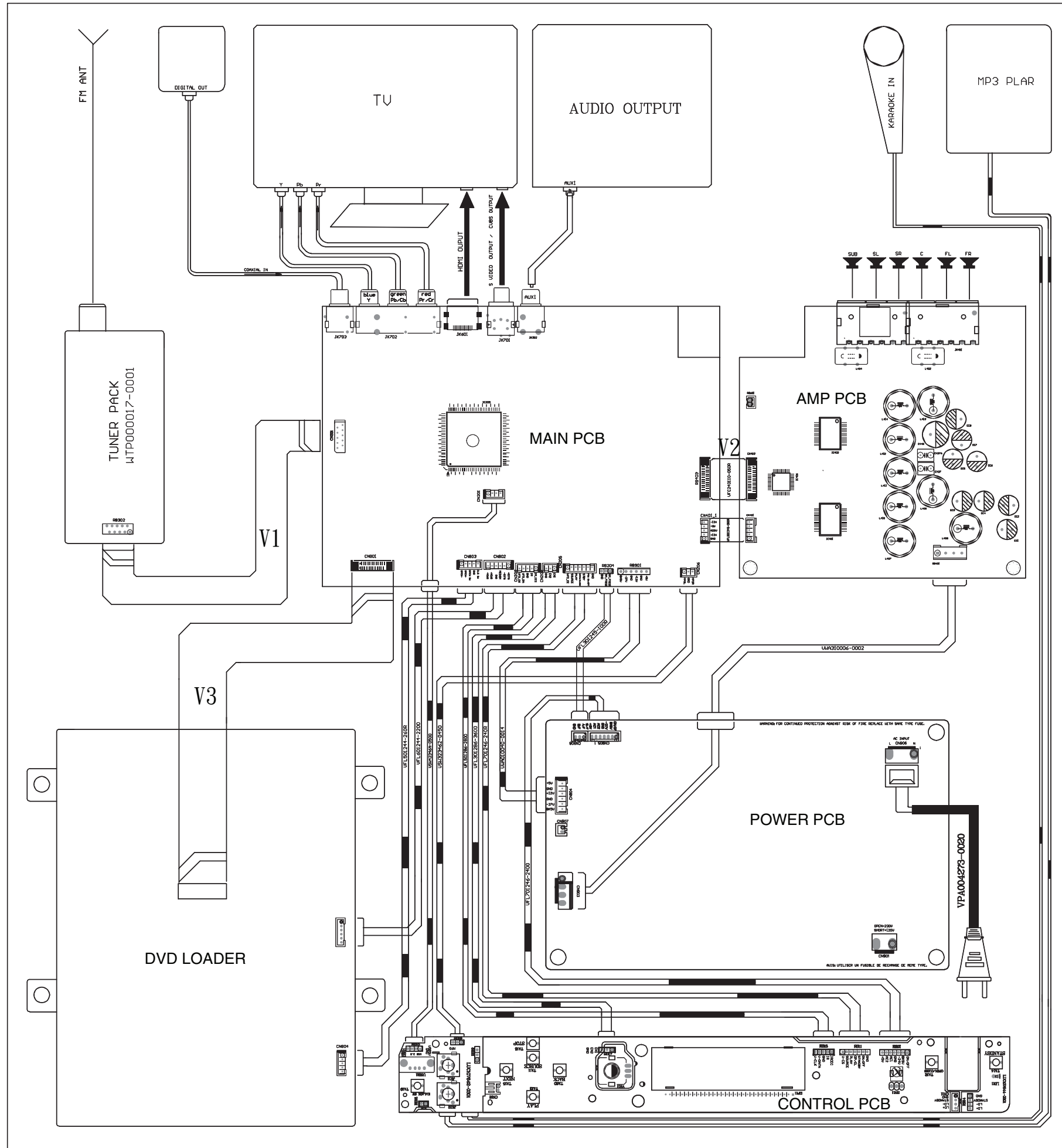
service position A (main unit)



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.



60Wx4(75w Power claim (commercial, 30%THD, 1 chan @ 1 min)
 120Wx2(150w Power claim (commercial, 30%THD, 1 chan @ 1 min)

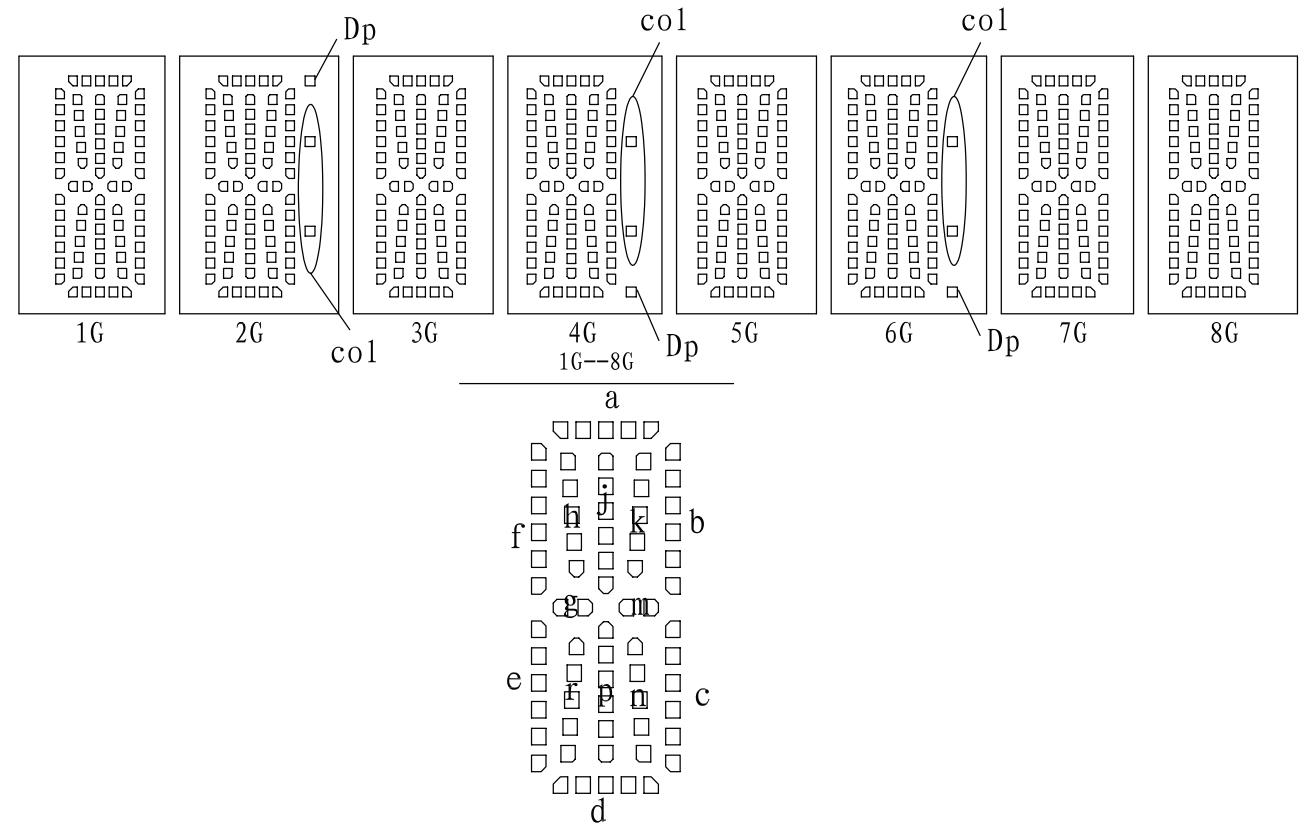


CONTROL BOARD

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FTD DISPLAY PIN ASSIGNMENT



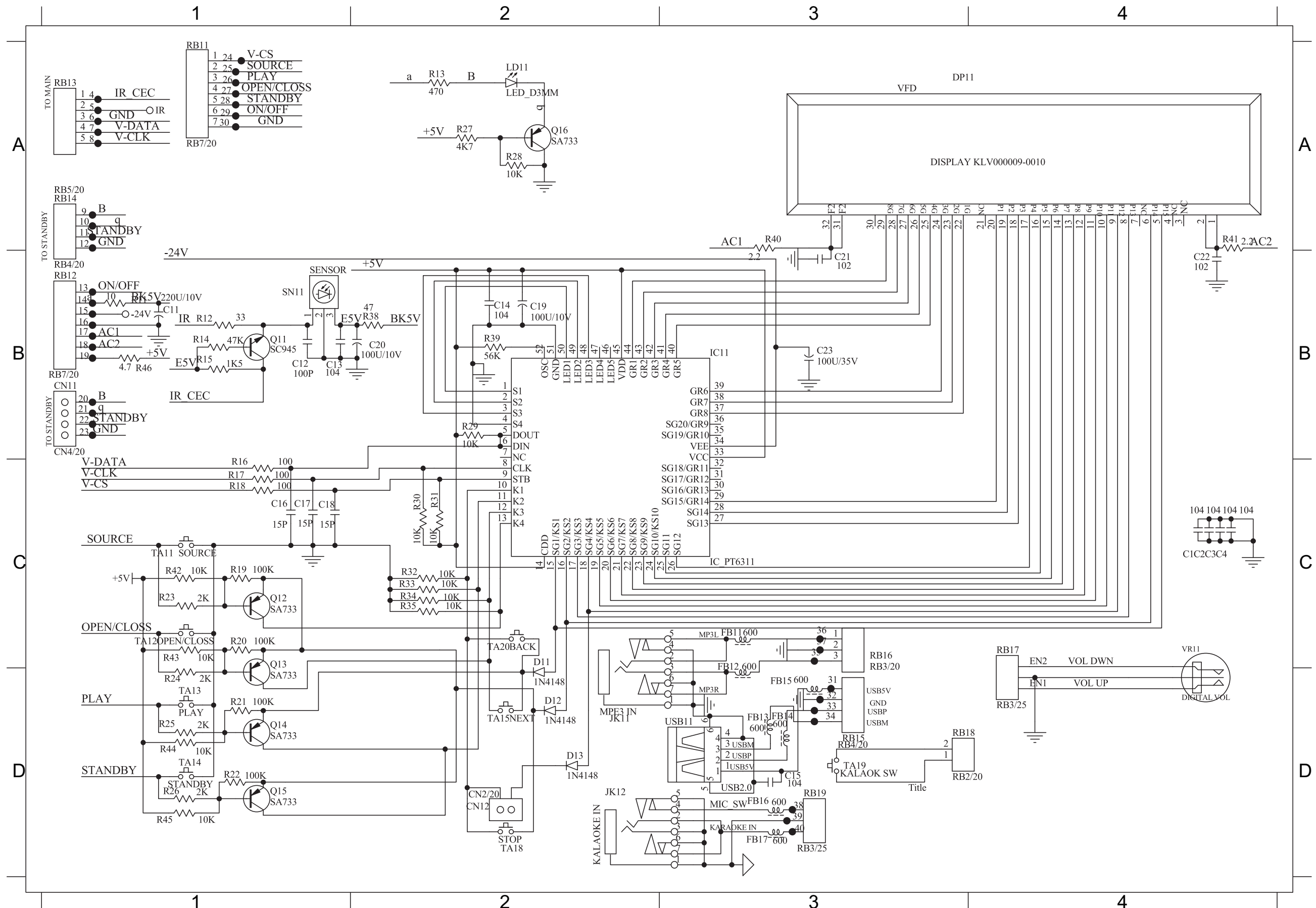
	1G	2G	3G	4G	5G	6G	7G	8G
P1	a	a	a	a	a	a	a	a
P2	j, p	j, p	j, p	j, p	j, p	j, p	j, p	j, p
P3	h	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d	d
P14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

PIN CONNECTION

管脚序号 (Pin NO.)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
连接 (Connection)	F1	F1	NP	NC	P15	P14	NC	P13	P12	P11	P10	P9	P8	P7	P6	P5
管脚序号 (Pin NO.)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
连接 (Connection)	P4	P3	P2	P1	NC	1G	2G	3G	4G	5G	6G	7G	8G	NP	F2	F2

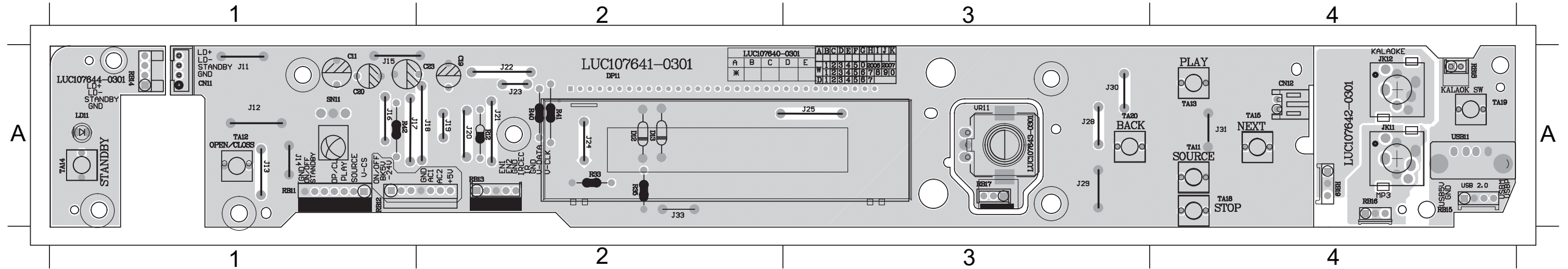
注 (Notes) : Fn : 灯丝 (Filament Pin) nG : 栅极 (Grid Pin)
 Pn : 阳极 (Anode Pin) NP : 无引出脚 (No Pin)
 NC : 无功能 (No connection Pin)

C11 B1 C15 D3 C19 B2 C23 B3 D12 D2 FB12 D3 FB16 D3 JK12 D2 Q13 C1 R11 B1 R15 B1 R19 C1 R23 C1 R27 A2 R31 C2 R35 C2 R41 A4 R45 D1 RB13 A1 RB17 C4 TA11 C1 TA15 D2 USB11 D3
 C12 B1 C16 C1 C20 B2 CN11 B1 D13 D2 FB13 D3 FB17 D3 LD11 A2 Q14 D1 R12 B1 R16 C1 R20 C1 R24 D1 R28 A2 R32 C2 R38 B2 R42 C1 R46 B1 RB14 A1 RB18 D3 TA12 C1 TA18 D2
 C13 B1 C17 C1 C21 B3 CN12 D2 DP11 A3 FB14 D3 IC11 B3 Q11 B1 Q15 D1 R13 A2 R17 C1 R21 D1 R25 D1 R29 B2 R33 C2 R39 B2 R43 C1 RB11 A1 RB15 D3 RB19 D3 TA13 D1 TA19 D3
 C14 B2 C18 C1 C22 B4 D11 D2 FB11 C3 FB15 D3 JK11 D2 Q12 C1 Q16 A2 R14 B1 R18 C1 R22 D1 R26 D1 R30 C2 R34 C2 R40 A3 R44 D1 RB12 B1 RB16 C3 SN11 B1 TA14 D1 TA20 C2



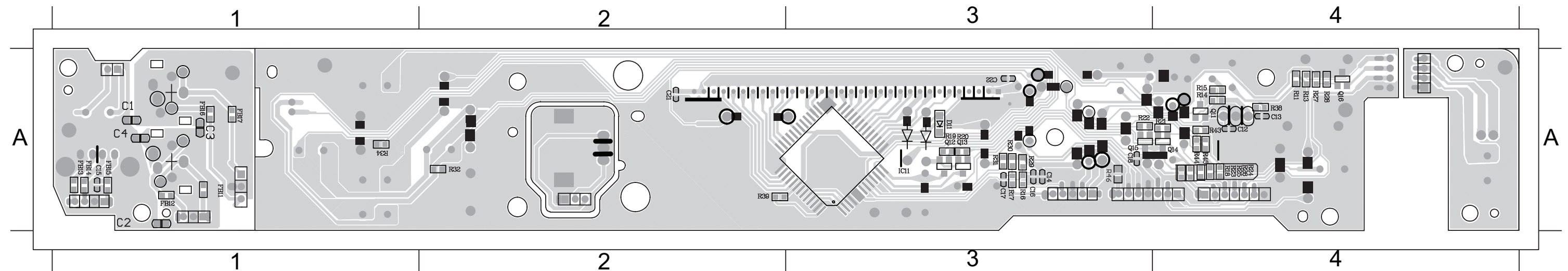
PCB LAYOUT - TOP VIEW

C11 A1 C23 A1 D12 A2 J11 A1 J14 A1 J17 A1 J20 A2 J23 A2 J28 A3 J31 A4 JK12 A4 R33 A2 R41 A2 RB12 A1 RB15 A4 RB18 A4 TA11 A4 TA14 A1 TA19 A4
 C19 A2 CN11 A1 D13 A2 J12 A1 J15 A1 J18 A2 J21 A2 J24 A2 J29 A3 J33 A2 LD11 A1 R35 A2 R42 A1 RB13 A2 RB16 A4 RB19 A4 TA12 A1 TA15 A4 TA20 A3
 C20 A1 CN12 A2 DP11 A2 J13 A1 J16 A1 J19 A2 J22 A2 J25 A3 J30 A3 JK11 A4 R12 A2 R40 A2 RB11 A1 RB14 A1 RB17 A3 SN11 A1 TA13 A4 TA18 A4 USB11 A4



PCB LAYOUT - BOTTOM VIEW

C12 A4 C15 A1 C18 A3 D11 A3 FB13 A1 FB16 A1 Q11 A4 Q14 A4 R11 A4 R15 A4 R18 A4 R21 A4 R24 A4 R27 A4 R30 A3 R34 A1 R43 A4 R46 A3
 C13 A4 C16 A3 C21 A2 FB11 A1 FB14 A1 FB17 A1 Q12 A3 Q15 A3 R13 A4 R16 A3 R19 A3 R22 A3 R25 A4 R28 A4 R31 A3 R38 A4 R44 A4
 C14 A3 C17 A3 C22 A3 FB12 A1 FB15 A1 IC11 A3 Q13 A3 Q16 A4 R14 A4 R17 A3 R20 A3 R23 A4 R26 A4 R29 A3 R32 A2 R39 A2 R45 A4



MAIN BOARD

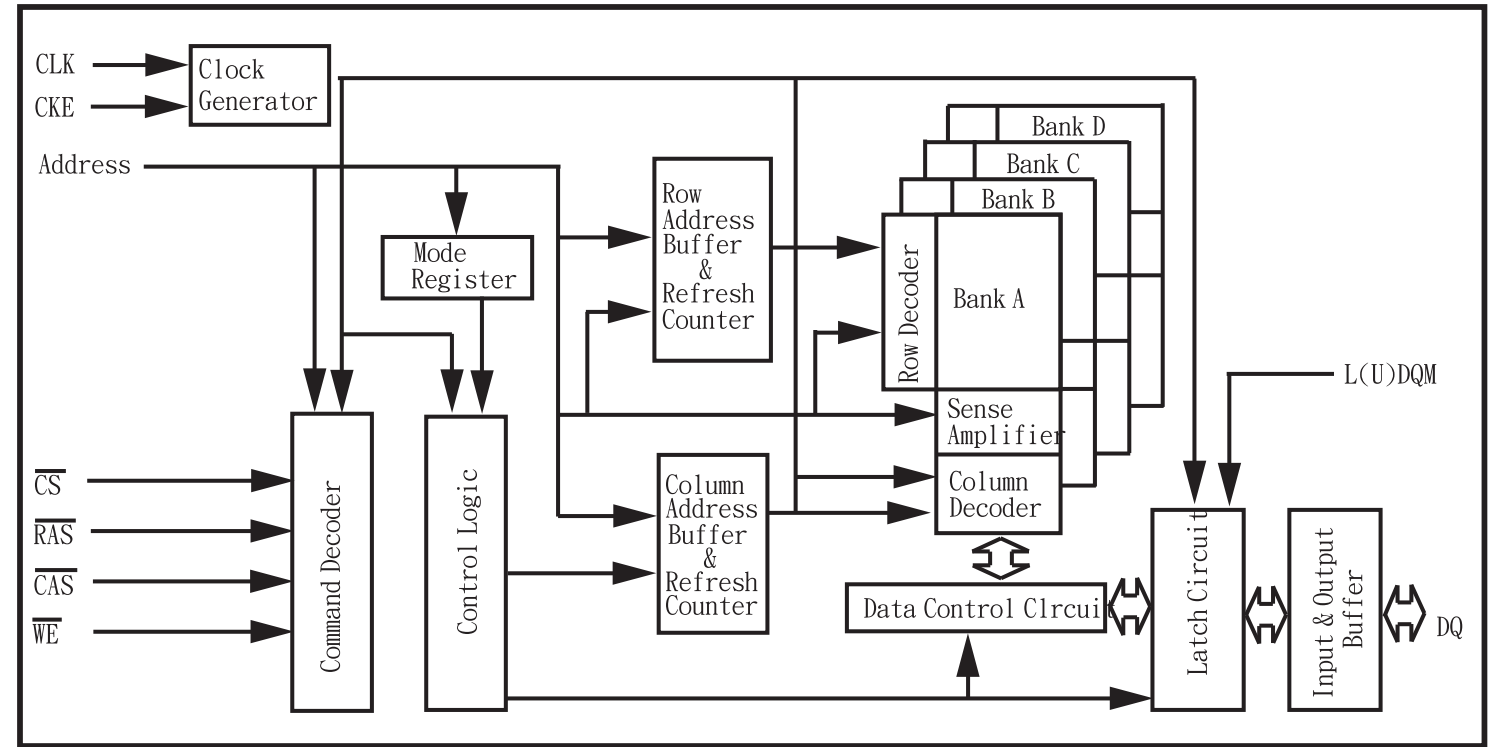
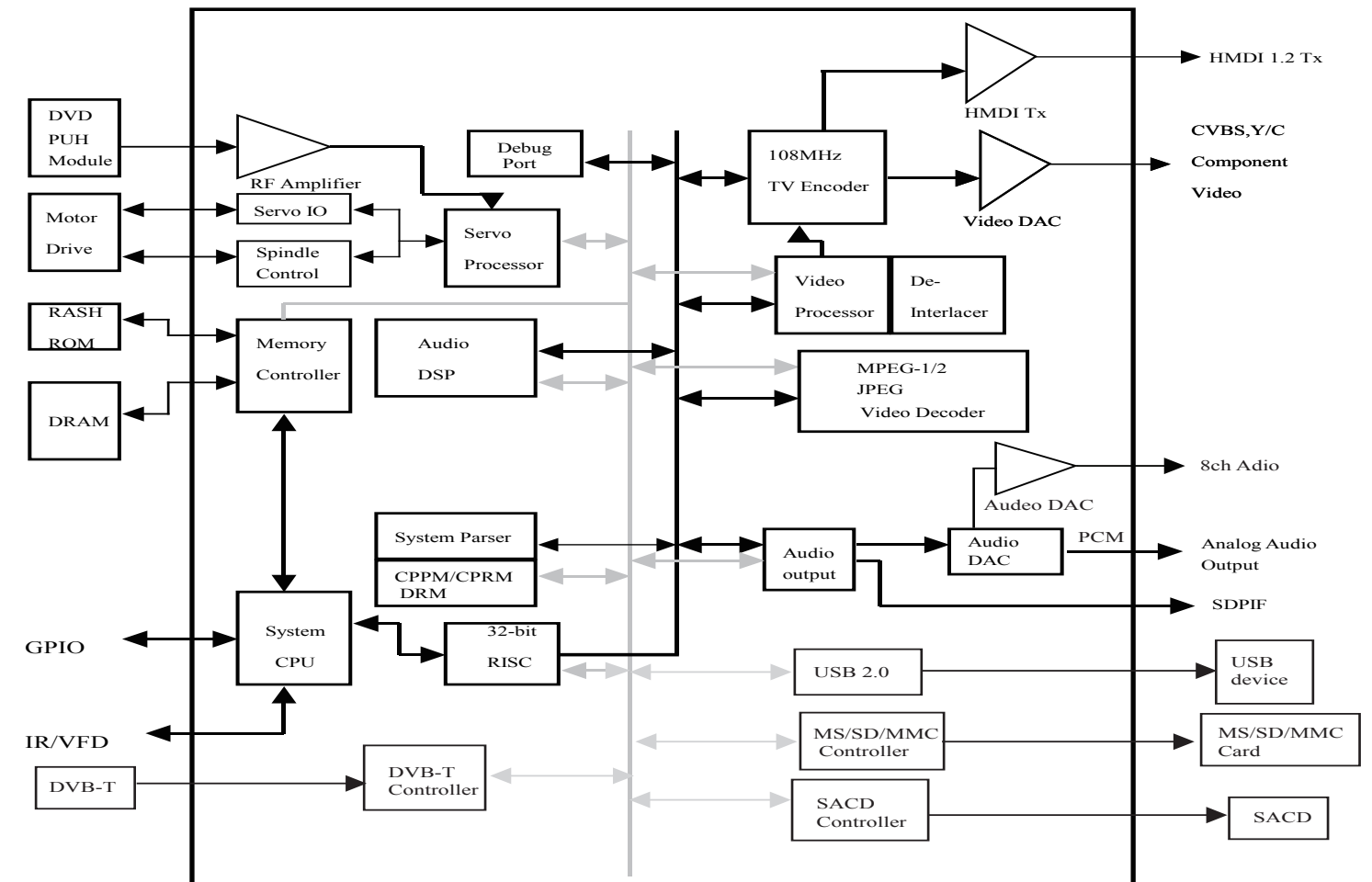
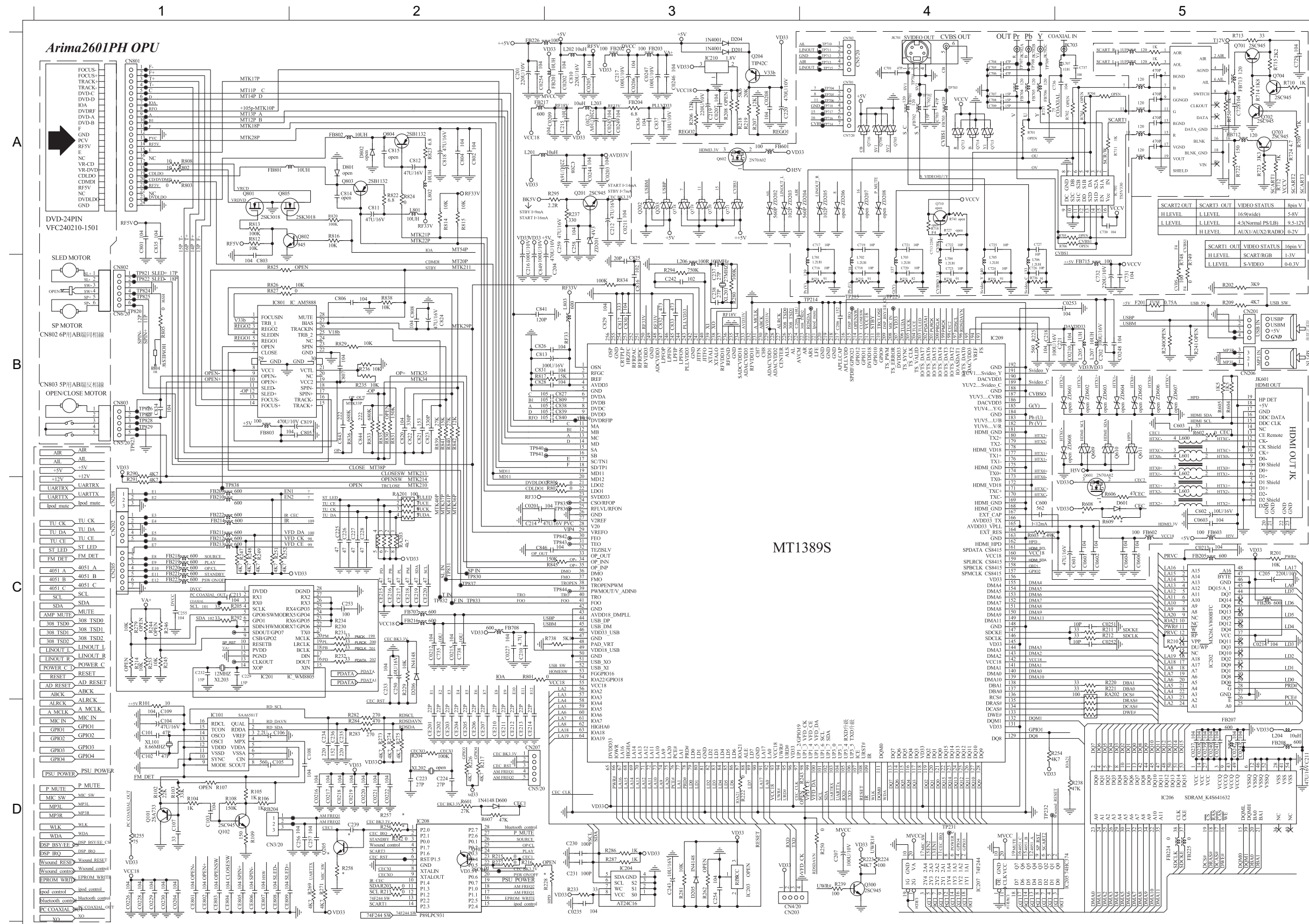


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INTERNAL IC DIAGRAM - MT1389FXE





A

B

C

D

C0201	C2	C706	A4	CN205	C1	Q713	A4	R814	A2
C0202	A3	C707	A4	CN206	B5	Q714	A4	R815	A2
C0203	A3	C708	A4	CN208	C1	Q715	A4	R816	A2
C0204	D1	C709	A4	CN801	A1	Q716	A4	R817	B2
C0205	A3	C713	B5	CN802	B1	Q801	A1	R820	A2
C0206	A3	C716	B4	CN803	B1	Q802	A2	R822	A2
C0207	A3	C717	A4	CO254	A2	Q803	A2	R823	A2
C0208	A3	C718	B4	D021	A3	Q804	A2	R824	A2
C0209	A3	C719	A4	D204	A3	Q805	A1	R826	B1
C0210	B5	C720	B4	D205	D3	R201	C5	R827	B1
C0211	A3	C721	A4	D600	D2	R202	B5	R829	B2
C0212	C2	C722	A4	F201	B5	R203	D2	R831	B2
C0213	C5	C723	B4	FB201	A3	R205	C1	R833	B2
C0214	C5	C724	B4	FB202	A3	R206	A3	R834	B3
C0215	C2	C725	A4	FB203	A3	R207	A3	R835	B2
C0216	D2	C726	B4	FB204	A3	R209	B5	R836	B2
C0217	D2	C727	A4	FB205	C5	R210	C5	R838	B2
C0218	D2	C732	B5	FB206	C5	R211	C5	R839	B2
C0219	D2	C735	C2	FB207	D5	R212	C5	R840	B2
C0220	D2	C736	A4	FB208	D5	R213	D2	R841	B2
C0221	D2	C737	A5	FB209	C1	R215	D2	R842	B2
C0222	D2	C738	C2	FB210	C1	R217	D2	R845	C3
C0226	D1	C801	A1	FB211	C1	R218	A3	RA201	C2
C0227	C2	C802	A2	FB212	C1	R219	A3	RA202	C5
C0228	D1	C803	B1	FB213	B5	R220	C5	RA203	C2
C0229	D1	C804	A2	FB214	C1	R221	C5	RB204	D1
C0230	D1	C805	B2	FB216	C2	R222	D3	XL201	B3
C0235	D3	C806	B2	FB217	A2	R223	D4	XL203	C1
C0237	D5	C807	B2	FB218	C1	R224	D4	ZD201	A3
C0238	D5	C808	B2	FB219	C1	R225	B4		
C0239	D5	C809	B3	FB220	C1	R226	D2		
C0240	D5	C810	A3	FB221	C1	R227	D2		
C0241	D5	C811	A2	FB222	C1	R228	D3		
C0242	D5	C812	A2	FB223	C1	R230	C2		
C0243	D5	C813	B3	FB224	D5	R231	C2		
C0244	A3	C816	B3	FB225	D5	R232	C2		
C0245	A3	C817	B3	FB226	A2	R233	D3		
C0246	A3	C818	A2	FB601	A3	R234	C2		
C0247	A3	C819	B2	FB602	C5	R235	B2		
C0248	B5	C820	B2	FB603	C5	R236	B2		
C0249	A3	C821	B2	FB701	A4	R237	A3		
C0251	C5	C822	B2	FB702	A4	R238	D5		
C0252	C5	C823	B2	FB703	A4	R239	D4		
C0253	B5	C824	B2	FB704	A4	R242	D2		
C0601	C5	C825	B3	FB705	A4	R245	C1		
C0602	C5	C826	B3	FB706	A4	R247	C1		
C0603	C5	C827	B3	FB707	C2	R248	C1		
C0604	C5	C828	B3	FB708	C2	R249	C1		
C0606	C5	C829	B3	FB715	B5	R250	D4		
C201	A2	C830	B3	FB801	A1	R251	C1		
C202	B5	C831	B3	FB802	A2	R252	C1		
C203	A3	C832	B3	FB803	B1	R253	C1		
C204	B3	C833	B3	IC201	C1	R269	D2		
C205	C5	C834	B1	IC202	C5	R271	D2		
C206	B4	C835	A1	IC203	D3	R274	D2		
C207	D4	C836	A3	IC204	D3	R279	C1		
C208	A3	C837	A3	IC205	D4	R280	B3		
C209	B3	C838	B3	IC206	D5	R281	D3		
C210	C2	C839	B3	IC207	D4	R286	D3		
C211	D5	C840	B3	IC208	D2	R287	D3		
C213	C1	C841	B2	IC209	B4	R290	B1		
C214	C2	C843	B2	IC210	A3	R291	C1		
C215	A3	C844	B2	IC801	B1	R292	C1		
C216	B2	C846	C3	JK601	B5	R294	B3		
C217	A3	C849	B2	JK701	A4	R295	A3		
C218	B4	CE201	D2	JK702	A4	R601	D2		
C219	A3	CE202	D2	JK703	A5	R602	B5		
C220	A3	CE203	D2	L201	A2	R603	C4		
C221	B5	CE204	D2	L202	A3	R604	B5		
C225	C2	CE205	D2	L203	A3	R605	B5		
C226	C2	CE206	D2	L204	D5	R606	C5		
C227	C2	CE207	D2	L205	B5	R701	A4		
C228	C2	CE210	D2	L206	B3	R703	A5		
C229	C1	CE211	D2	L207	B5	R706	A5		
C230	D3	CE212	D2	L701	B4	R731	B4		
C231	D3	CE213	D2	L702	B4	R732	B4		
C232	C1	CE214	D2	L703	B4	R733	B4		
C237	B3	CE215	C2	L704	B4	R734	B4		
C238	B3	CE216	C2	L705	B4	R735	B4		
C242	B3	CE217	C2	L706	B4	R736	B4		
C243	D3	CE218	C2	L707	A5	R737	A4		
C253	C2	CE219	C2	L801	A2	R738	C3		
C254	D3	CE220	C2	L802	A2	R748	B5		
C255	C1	CE801	D1	L803	B3	R749	B5		
C259	A3	CE802	D1	Q201	A3	R801	C2		
C600	C4	CE803	D1	Q202	A3	R802	A1		
C601	C5	CE804	D1	Q203	A3	R803	A1		
C602	C5	CE805	D1	Q204	A3	R804	B1		
C603	B5	CE806	D1	Q300	D4	R805	B1		
C701	A4	CE807	D1	Q601	C5	R806	C3		
C702	A4	CE808	D1	Q602	A3	R807	C3		
C703	A4	CE809	D1	Q611	B5	R808	A1		
C704	A4	CN201	B5	Q705	A4	R812	A1		
C705	A4	CN202	C1	Q706	A4	R813	A1		

A

B

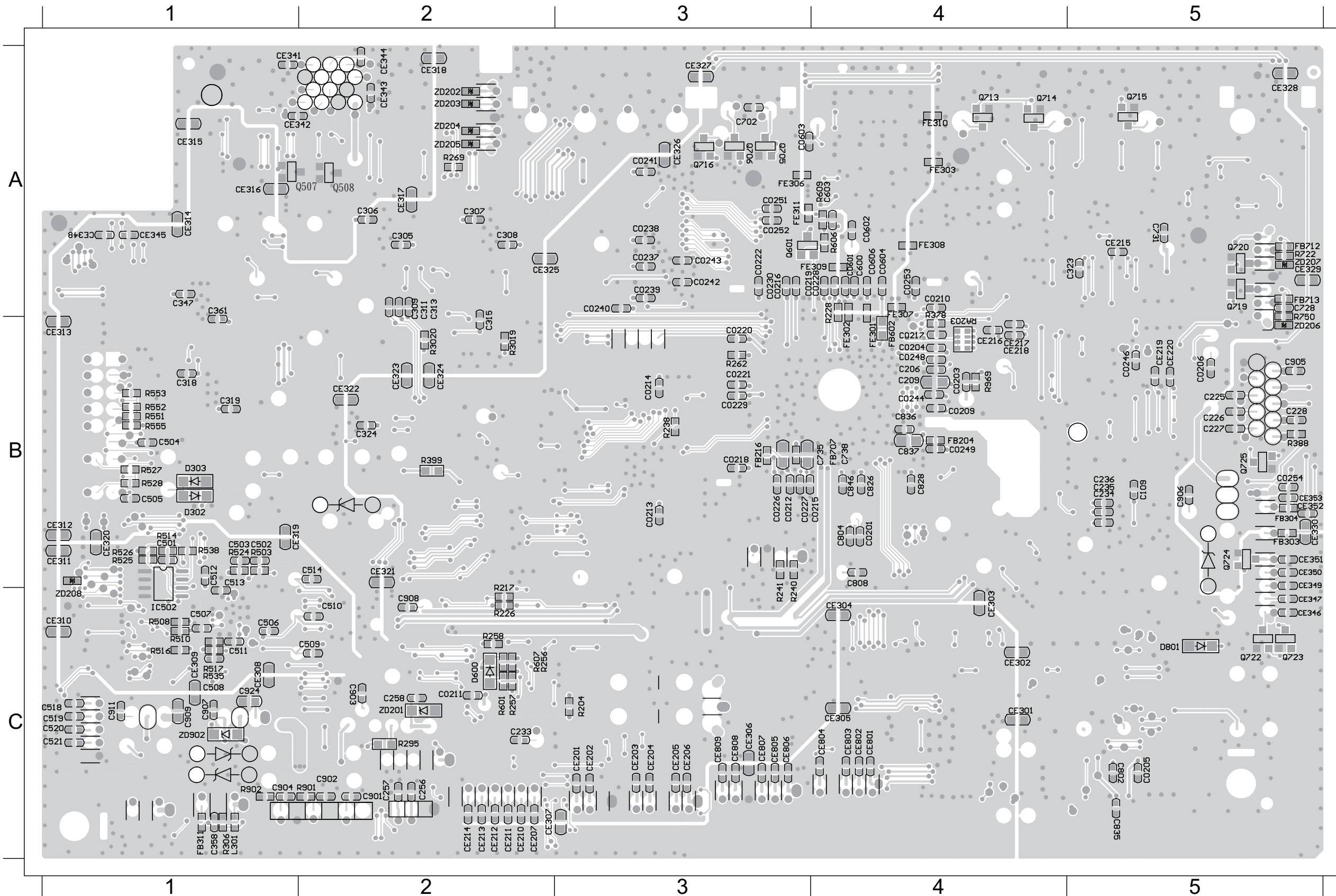
C

D

PCB LAYOUT - BOTTOM VIEW

6 - 5

6 - 5



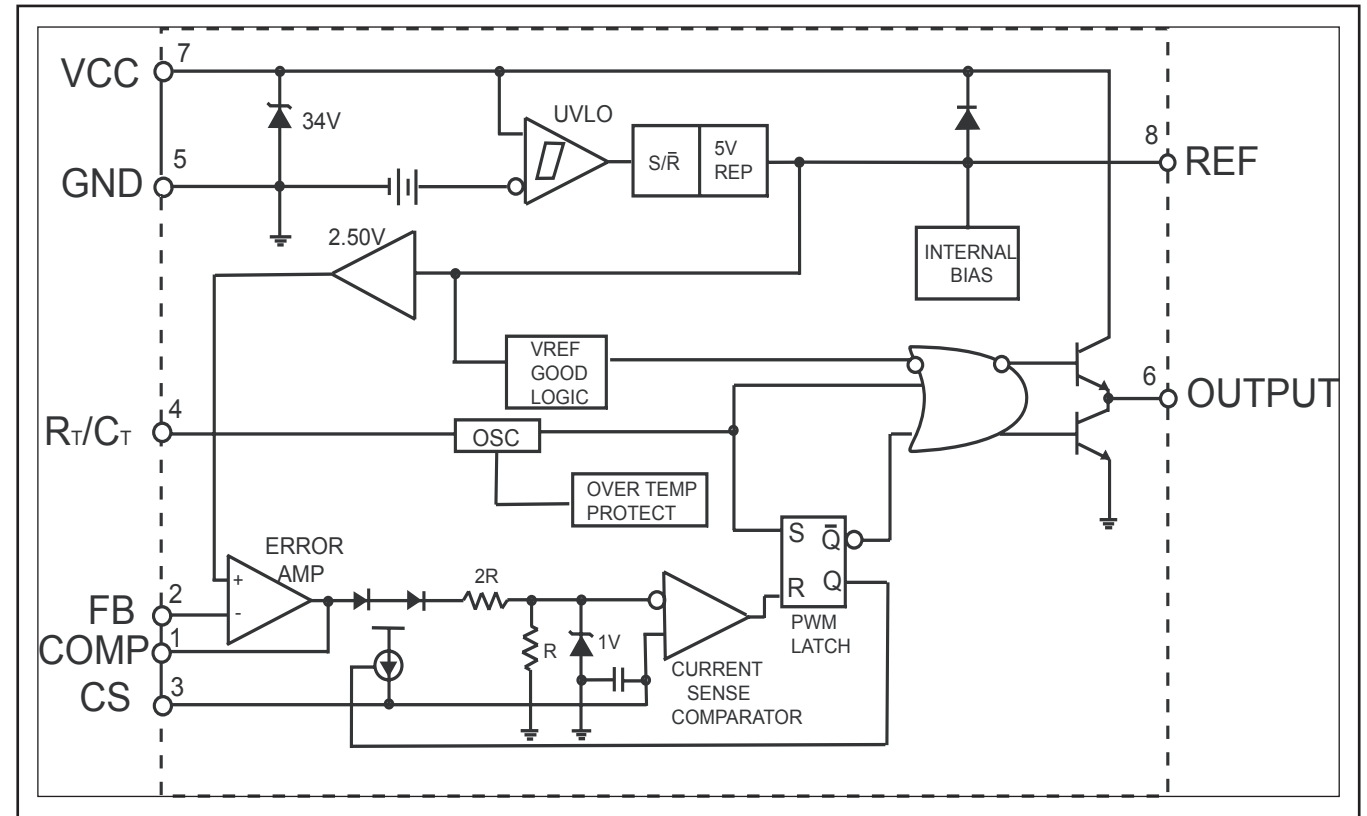
C0201	B4	C808	B4	CE345	A1
C0203	B4	C826	B4	CE346	C5
C0204	B4	C828	B4	CE347	C5
C0205	C5	C835	C5	CE348	A1
C0206	B5	C836	B4	CE351	B5
C0209	B4	C837	B4	CE352	B5
C0210	A4	C846	B4	CE353	B5
C0211	C2	C901	C2	CE801	C4
C0212	B3	C902	C2	CE802	C4
C0213	B3	C903	C2	CE803	C4
C0214	B3	C904	C1	CE804	C4
C0215	B3	C905	B5	CE805	C3
C0216	A3	C906	B5	CE806	C3
C0217	B4	C907	C1	CE807	C3
C0218	B3	C908	C2	CE808	C3
C0219	A3	C909	C1	CE809	C3
C0220	B3	C911	C1	CO254	B5
C0221	B3	C924	C1	D302	B1
C0222	A3	CE201	C3	D303	B1
C0226	B3	CE202	C3	D600	C2
C0227	B3	CE203	C3	FB204	B4
C0228	A4	CE204	C3	FB216	B3
C0229	B3	CE205	C3	FB311	C1
C0230	A3	CE206	C3	FB602	B4
C0237	A3	CE207	C2	FB707	B4
C0238	A3	CE210	C2	FE301	B4
C0239	A3	CE211	C2	FE302	B4
C0240	A3	CE212	C2	FE303	A4
C0241	A3	CE213	C2	FE306	A3
C0242	A3	CE214	C2	FE307	A4
C0243	A3	CE215	A5	FE308	A4
C0244	B4	CE216	B4	FE309	A4
C0246	B5	CE217	B4	FE310	A4
C0248	B4	CE218	B4	FE311	A3
C0249	B4	CE219	B5	L301	C1
C0251	A3	CE220	B5	Q601	A3
C0252	A3	CE301	C4	Q705	A3
C0253	A4	CE302	C4	Q706	A3
C0601	A4	CE303	C4	Q713	A4
C0602	A4	CE304	C4	Q714	A4
C0603	A3	CE305	C4	Q715	A5
C0604	A4	CE306	C3	Q716	A3
C0606	A4	CE307	C2	Q722	C5
C206	B4	CE308	C1	Q723	C5
C209	B4	CE309	C1	Q724	B5
C225	B5	CE310	C1	R217	C2
C226	B5	CE311	B1	R226	C2
C227	B5	CE312	B1	R228	A4
C228	B5	CE313	B1	R238	B3
C305	A2	CE314	A1	R269	A2
C306	A2	CE315	A1	R295	C2
C309	A2	CE316	A1	R3019	B2
C311	A2	CE317	A2	R3020	B2
C313	A2	CE318	A2	R306	C1
C315	A2	CE319	B1	R378	B4
C318	B1	CE320	B1	R388	B5
C319	B1	CE321	B2	R399	B2
C323	A5	CE322	B2	R601	C2
C324	B2	CE323	B2	R606	A4
C518	C1	CE324	B2	R804	B3
C519	C1	CE325	A2	RA203	B4
C520	C1	CE326	A3	ZD201	C2
C521	C1	CE327	A3	ZD902	C1
C600	A4	CE328	A5		
C603	A4	CE329	A5		
C702	A3	CE330	B5		
C735	B4	CE341	A1		
C738	B4	CE342	A1		
C802	C5	CE343	A2		
C804	B4	CE344	A2		

POWER BOARD

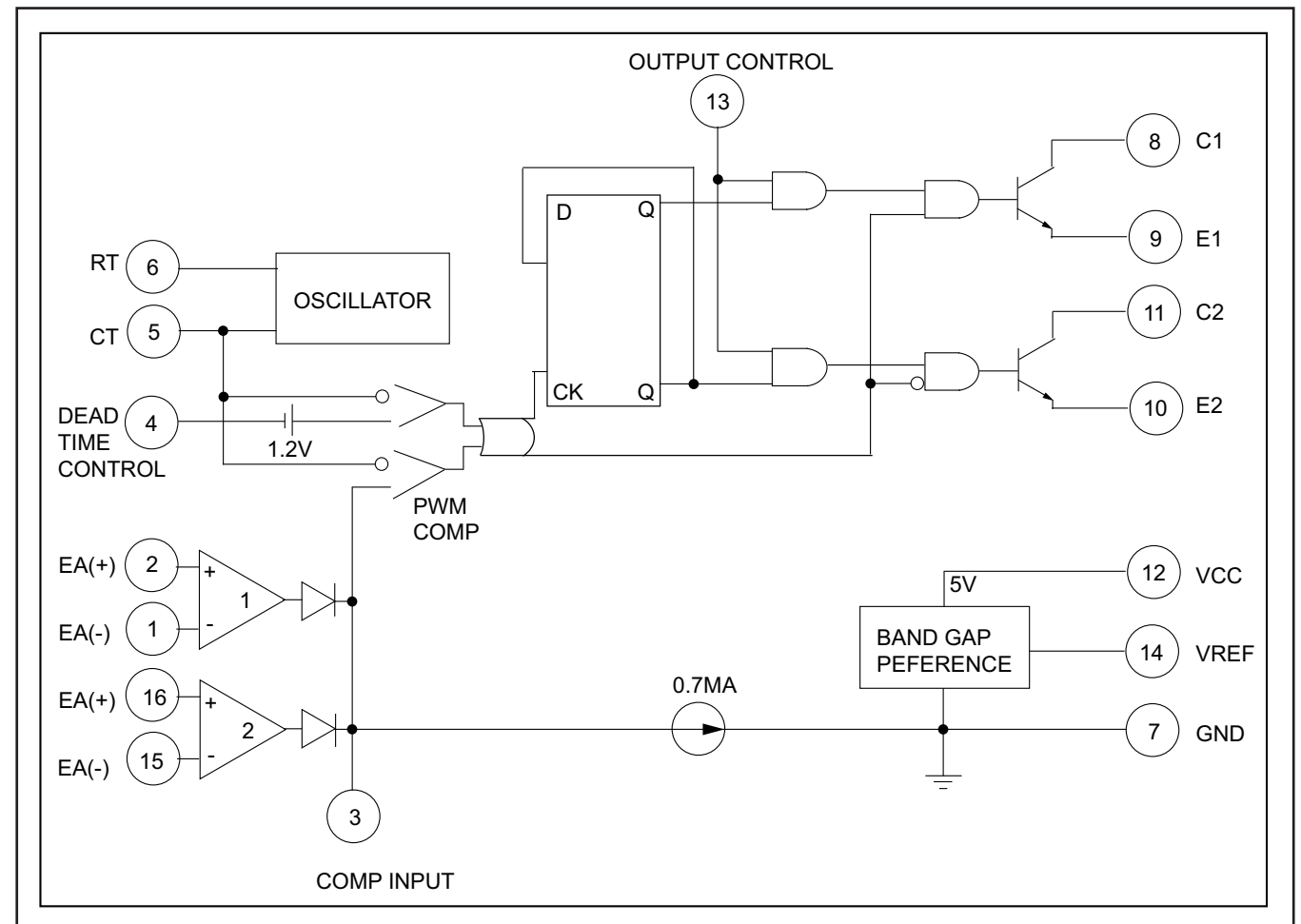
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7-1
INTERNAL IC DIAGRAM - AP3843GMTR

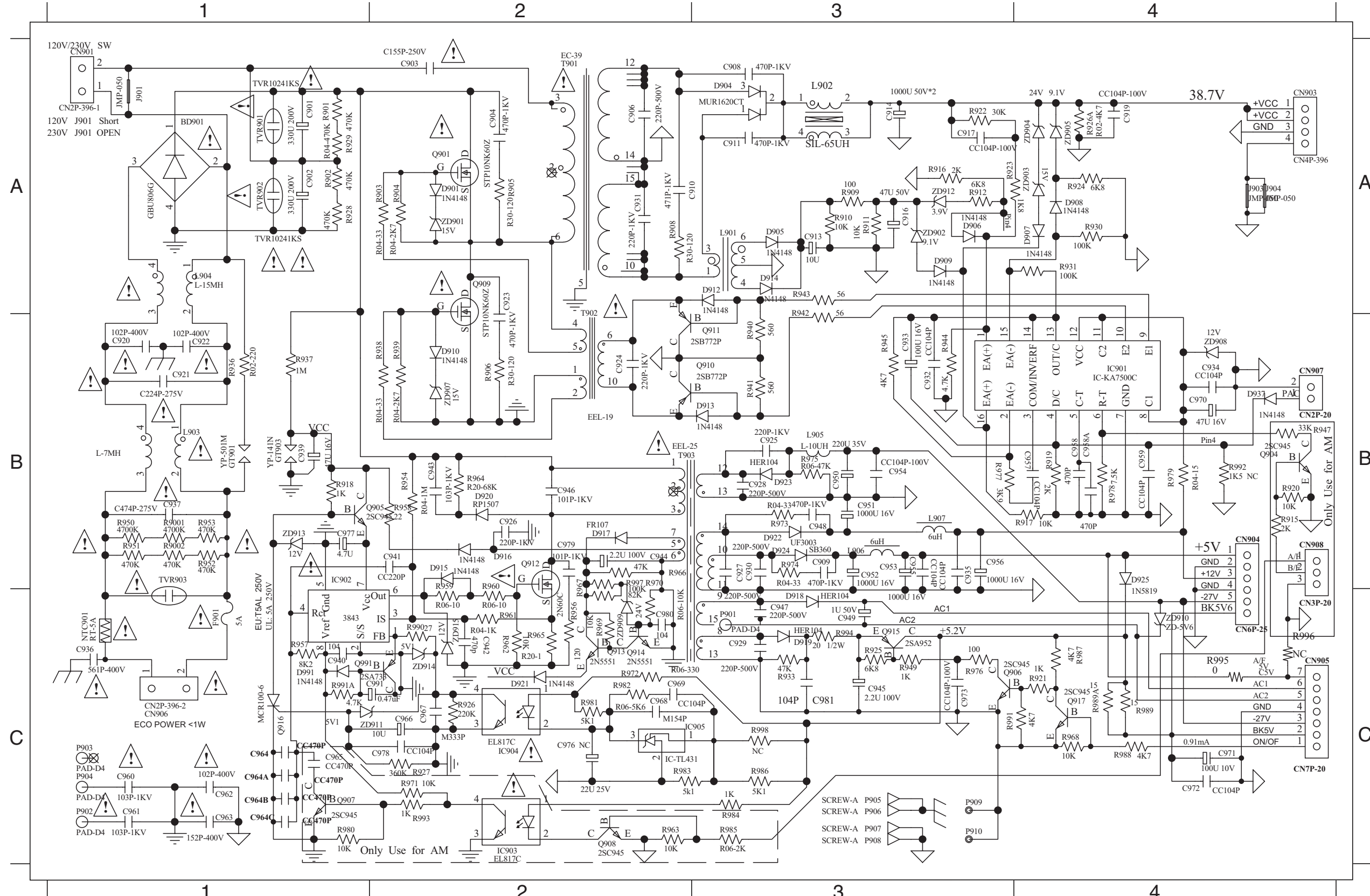


INTERNAL IC DIAGRAM - AZ7500BP



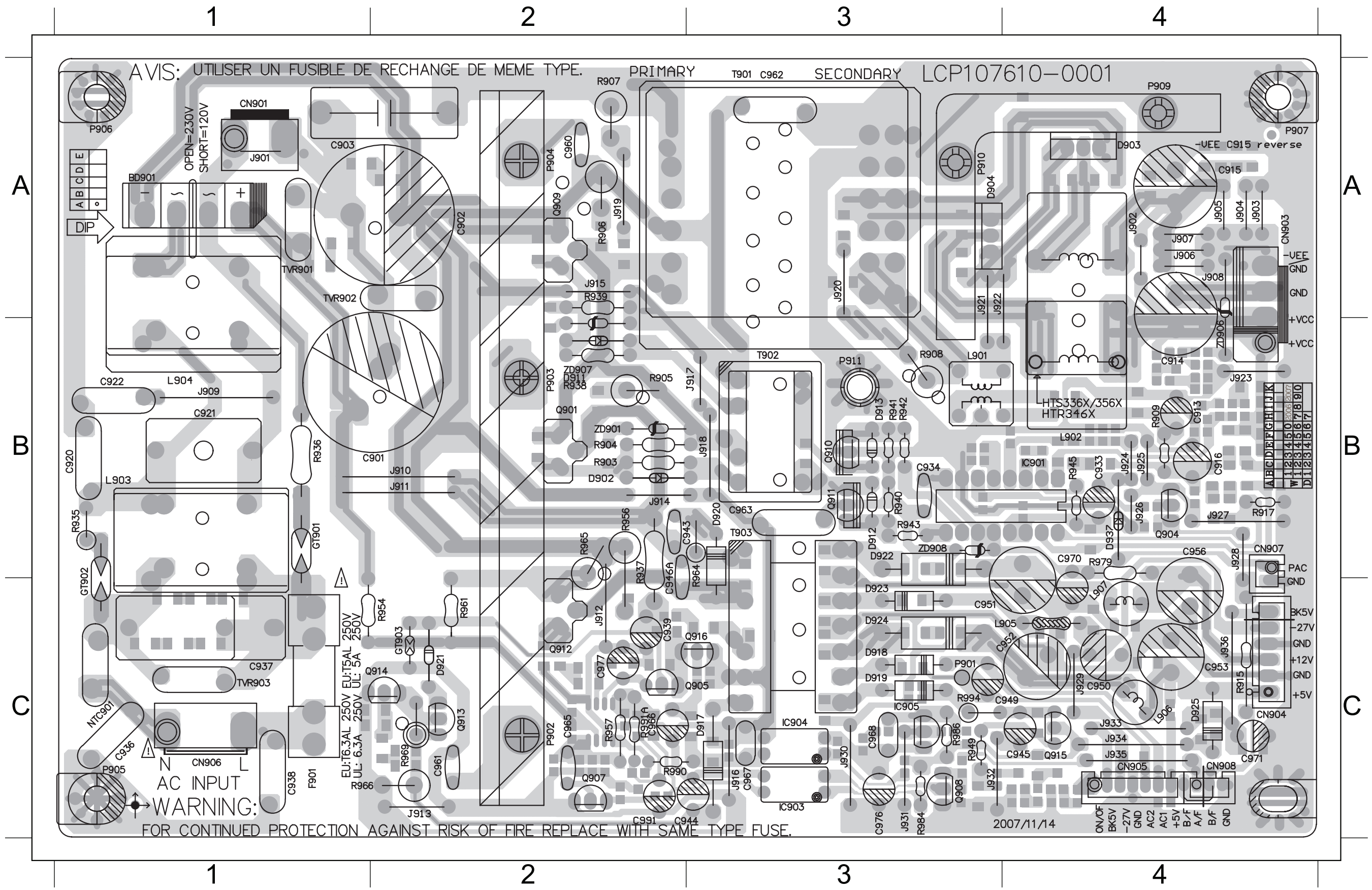
CIRCUIT DIAGRAM

BD901	A1	C914	A3	C927	B3	C940	C1	C952	B3	C962	C1	C970	B4	CN905	C4	D912	A3	D923	B3	IC904	C2	NTC901	C1	Q913	C2	R904	A2	R918	B1	R926D	A4	R940	B3	R953	B1	R965	C2	R976	C3	R987	C4	T901	A2	ZD905	A4
C901	A1	C916	A3	C928	B3	C941	B2	C953	B3	C963	C1	C971	C4	CN906	C1	D913	B3	D924	B3	IC905	C2	Q901	A2	Q914	C2	R905	A2	R919	B4	R927	C2	R941	B3	R954	B2	R966	B2	R977	B4	R988	C4	T901	B2	ZD907	B2
C902	A1	C917	A3	C929	C3	C942	C2	C954	B3	C964	C1	C972	C4	CN907	B4	D914	A3	D925	B4	J903	A4	Q904	B4	Q915	C3	R906	B2	R920	B4	R928	A1	R942	A3	R955	C4	R967	B2	R978	B4	R989	C4	T902	B2	ZD908	B4
C903	A2	C919	A4	C930	B3	C943	B2	C955	B3	C964A	C1	C973	C3	CN908	B4	D915	B2	D937	B4	J904	A4	Q905	B1	Q916	C1	R908	A2	R921	C4	R929	A1	R943	A3	R957	C1	R968	C4	R979	B4	R989A	C4	T903	B2	ZD909	C2
C904	A2	C920	B1	C931	A2	C944	B2	C956	B3	C964B	C1	C977	B1	D901	A2	D916	B2	D991	C1	L901	A3	Q906	C3	Q917	C4	R909	A3	R922	A3	R930	A4	R944	B3	R958	B2	R969	C2	R980	C1	R990	C2	TVR901	A1	ZD910	C4
C906	A2	C921	B1	C932	B3	C945	C4	C957	B4	C964C	C1	C978	C2	D904	A3	D917	B2	F901	C1	L902	A3	Q907	C1	Q991	C1	R910	A3	R923	A4	R931	A4	R945	B3	R959	C2	R970	C2	R981	C2	R991	C4	TVR902	A1	ZD911	C1
C908	A3	C922	B1	C933	B3	C946	B2	C958	B4	C965	C1	C980	C2	D905	A3	D918	C3	GT901	B1	L903	B1	Q908	C2	R9001	B1	R911	A3	R924	A4	R933	C3	R947	B4	R960	C2	R971	C2	R982	C2	R991A	C1	TVR903	B1	ZD912	A3
C909	B3	C923	A2	C934	B4	C948	B3	C958A	B4	C966	C2	C991	C1	D907	A4	D919	C3	GT903	B1	L904	A1	Q909	A2	R9002	B1	R912	A3	R925	C3	R936	B1	R949	C3	R961	C2	R972	C2	R983	C2	R993	C2	ZD901	A2	ZD913	B1
C910	A2	C924	B2	C935	B3	C949	C3	C959	B4	C967	C2	CN901	A1	D908	A4	D920	B2	IC901	B4	L905	B3	Q910	B3	R901	A1	R915	B4	R926A	A4	R937	B1	R950	B1	R962	C2	R973	B3	R984	C3	R994	C3	ZD902	A3	ZD914	C2
C911	A3	C925	B3	C937	B1	C950	B3	C960	C1	C968	C2	CN903	A4	D909	A3	D921	C2	IC902	B1	L906	B3	Q911	B3	R902	A1	R916	A3	R926B	A4	R938	B2	R951	B1	R963	C2	R974	B3	R985	C3	R995	C4	ZD903	A4	ZD915	C2
C913	A3	C926	B2	C939	B1	C951	B3	C961	C1	C969	C2	CN904	B4	D910	B2	D922	B3	IC903	C2	L907	B3	Q912	B2	R903	A2	R917	B4	R926C	A4	R939	B2	R952	B1	R964	B2	R975	B3	R986	C3	R997	B2	ZD904	A4		



PCB LAYOUT - TOP VIEW

BD901	A1	C921	B1	C945	C4	C960	A2	C970	B4	CN906	C1	D919	C3	F901	C1	J904	A4	J916	C3	J925	B4	J933	C4	L905	C4	Q908	C3	Q916	C3	R917	B4	R943	B3	R966	C1	T901	A3	ZD907	B2
C901	B2	C922	B1	C946	B2	C961	C2	C971	C4	CN907	B4	D920	B3	GT901	B1	J909	B1	J917	B3	J926	B4	J934	C4	L906	C4	Q909	A2	R903	B2	R936	B1	R945	B4	R969	C2	T901	B3	ZD908	B3
C902	A2	C933	B4	C949	C3	C962	A3	C977	C2	CN908	C4	D921	C2	GT903	C2	J910	B2	J918	B3	J927	B4	J935	C4	L907	C4	Q910	B3	R904	B2	R937	B2	R949	C3	R979	B4	T902	B3		
C903	A1	C934	B3	C950	C4	C963	B3	C991	C2	D904	A3	D922	B3	IC901	B4	J911	B2	J920	A3	J928	B4	J936	C4	NTC901	C1	Q911	B3	R905	B2	R938	B2	R954	C1	R984	C3	T903	B3		
C913	B4	C937	C1	C951	C4	C965	C2	CN901	A1	D912	B3	D923	C3	IC903	C3	J912	C2	J921	A3	J929	C4	L901	B3	Q901	B2	Q912	C2	R906	A2	R939	A2	R957	C2	R986	C3	TVR901	A1		
C914	B4	C939	C2	C952	C4	C966	C2	CN903	A4	D913	B3	D924	C3	IC904	C3	J913	C2	J922	A3	J930	C3	L902	B4	Q904	B4	Q913	C2	R908	B3	R940	B3	R961	C2	R990	C2	TVR902	A1		
C916	B4	C943	B2	C953	C4	C967	C3	CN904	C4	D917	C3	D925	C4	IC905	C3	J914	B2	J923	B4	J931	C3	L903	B1	Q905	C2	Q914	C2	R909	B4	R941	B3	R964	B3	R991	A2	TVR903	C1		
C920	B1	C944	C2	C956	B4	C968	C3	CN905	C4	D918	C3	D937	B4	J903	A4	J915	A2	J924	B4	J932	C3	L904	B1	Q907	C2	Q915	C4	R915	C4	R942	B3	R965	B2	R994	C3	ZD901	B2		

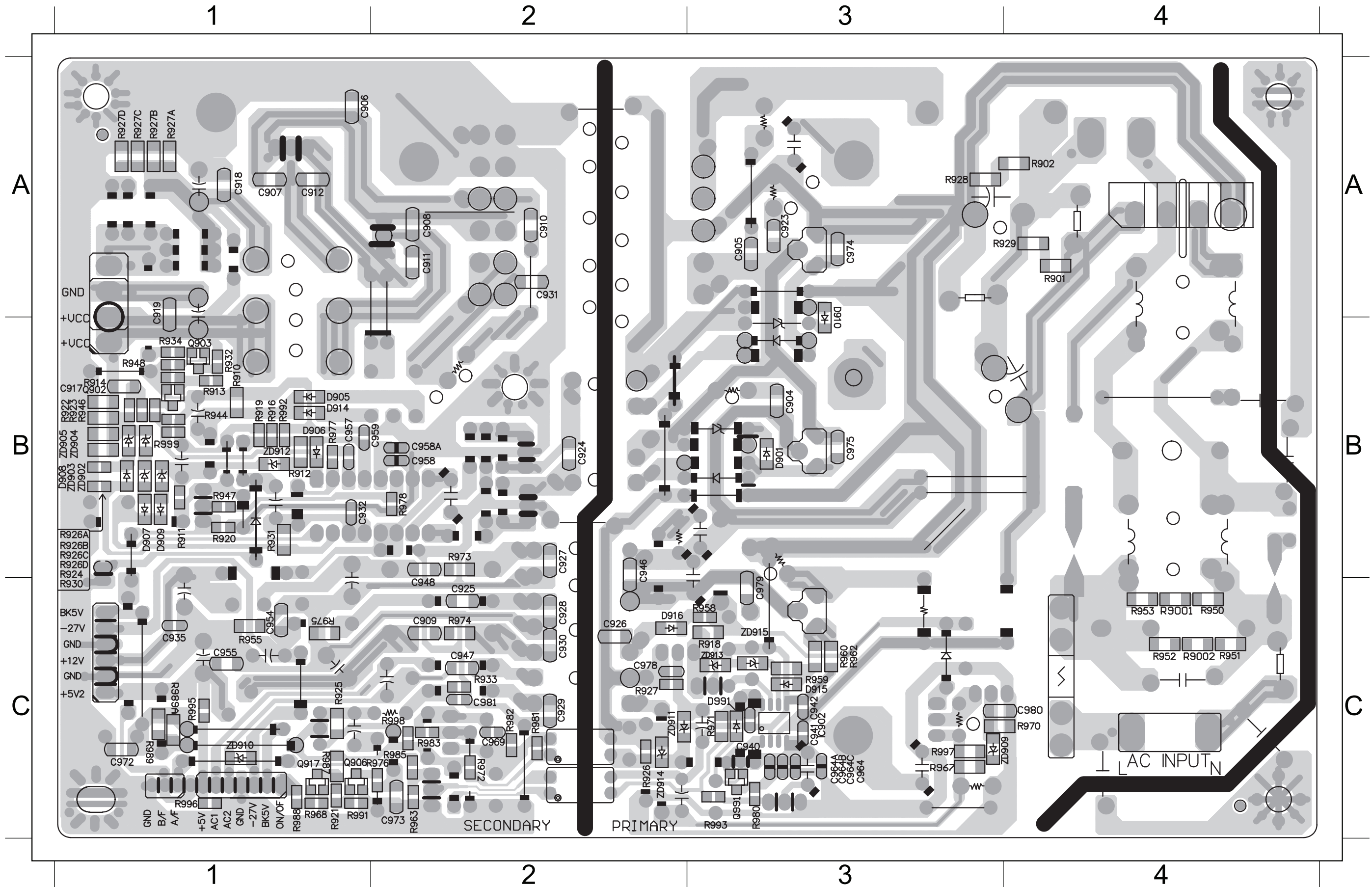


PCB LAYOUT - BOTTOM VIEW

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C904 B3	C917 B1	C927 B2	C935 C1	C954 C1	C964 C3	C973 C2	D908 B1	D991 C3	R9002 C4	R916 B1	R923 B1	R926DB1	R933 C3	R953 C4	R963 C2	R973 B2	R980 C2	R988 C1	R997 C3	ZD910 C1
C906 A1	C919 A1	C928 C2	C940 C3	C955 C1	C964A C3	C978 C2	D909 B1	IC902 C3	R901 A4	R918 C3	R924 B1	R927 C2	R944 B1	R955 C1	R967 C3	R974 C2	R981 C2	R989 C1	R992 B1	ZD911 C2
C908 A2	C923 A3	C929 C2	C941 C3	C957 B1	C964B C3	C980 C4	D910 A3	Q906 C1	R902 A4	R919 B1	R925 C1	R928 A3	R947 B1	R958 C3	R968 C1	R975 C1	R982 C2	R989A C1	ZD903 B1	ZD912 B1
C909 C2	C924 B2	C930 C2	C942 C3	C958 B2	C964C C3	D901 B3	D914 B1	Q917 C1	R910 B1	R920 B1	R926A B1	R929 A4	R950 C4	R959 C3	R970 C4	R976 C2	R983 C2	R991 C1	ZD904 B1	ZD913 C3
C910 A2	C925 C2	C931 A2	C946 B2	C958A B2	C969 C2	D905 B1	D915 C3	Q991 C3	R911 B1	R921 C1	R926B B1	R930 B1	R951 C4	R960 C3	R971 C3	R977 B1	R985 C1	R993 C3	ZD905 B1	ZD914 C2
C911 A2	C926 C2	C932 B1	C948 B2	C959 B2	C972 C1	D907 B1	D916 C2	R9001 C4	R912 B1	R922 B1	R926C B1	R931 B1	R952 C4	R962 C3	R972 C2	R978 B2	R987 C1	R995 C1	ZD909 C3	

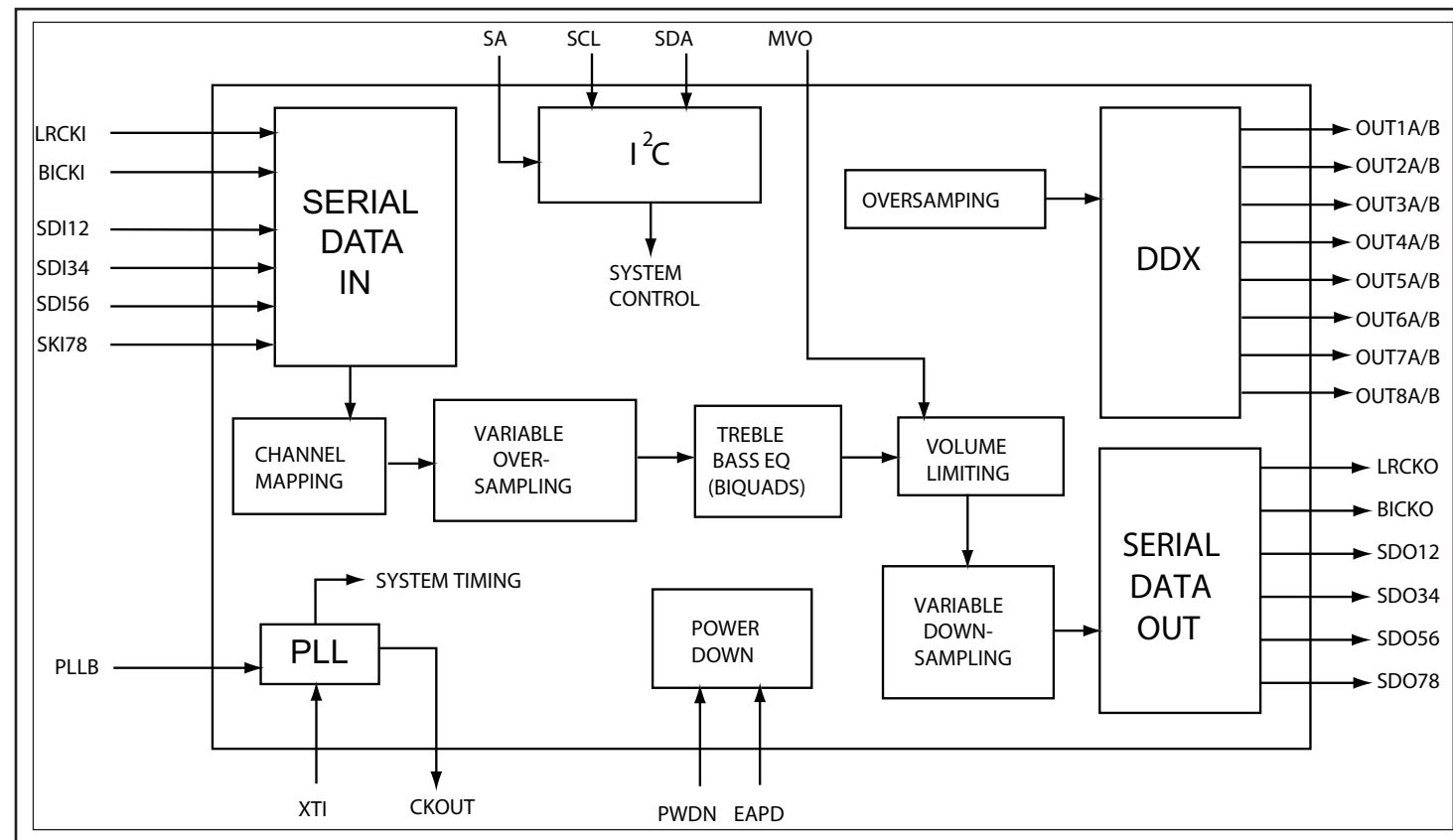


AMP BOARD

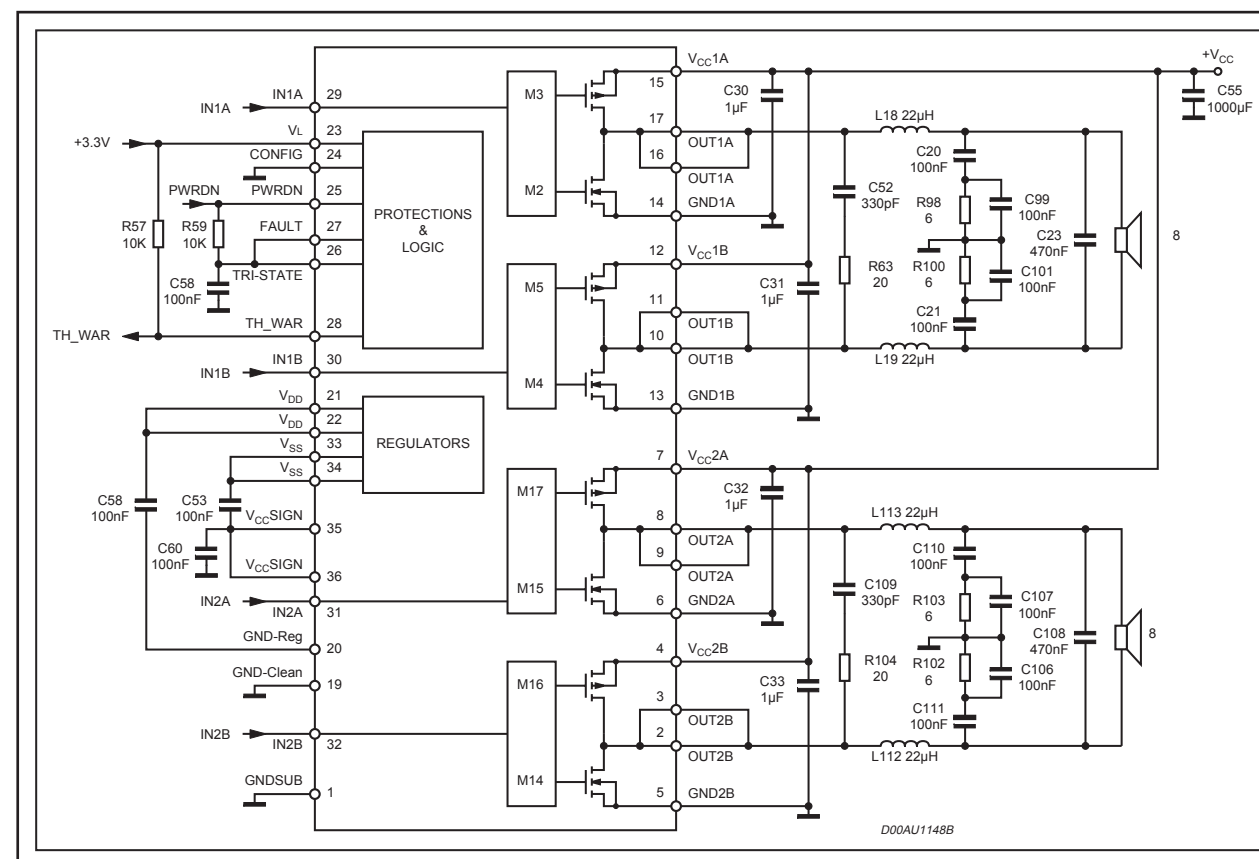
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INTERNAL IC DIAGRAM - STA309A

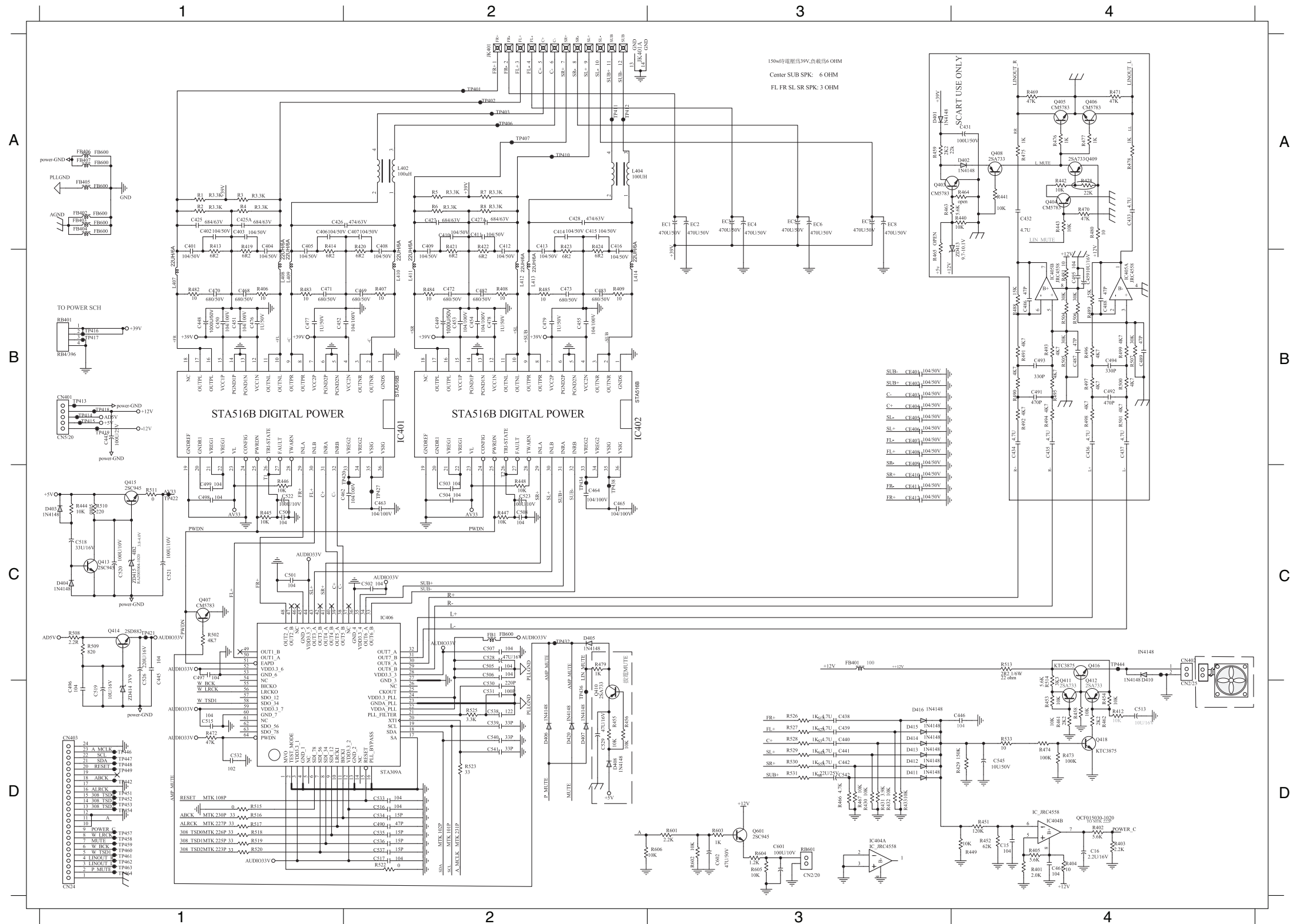


INTERNAL IC DIAGRAM - STA516B



CIRCUIT DIAGRAM

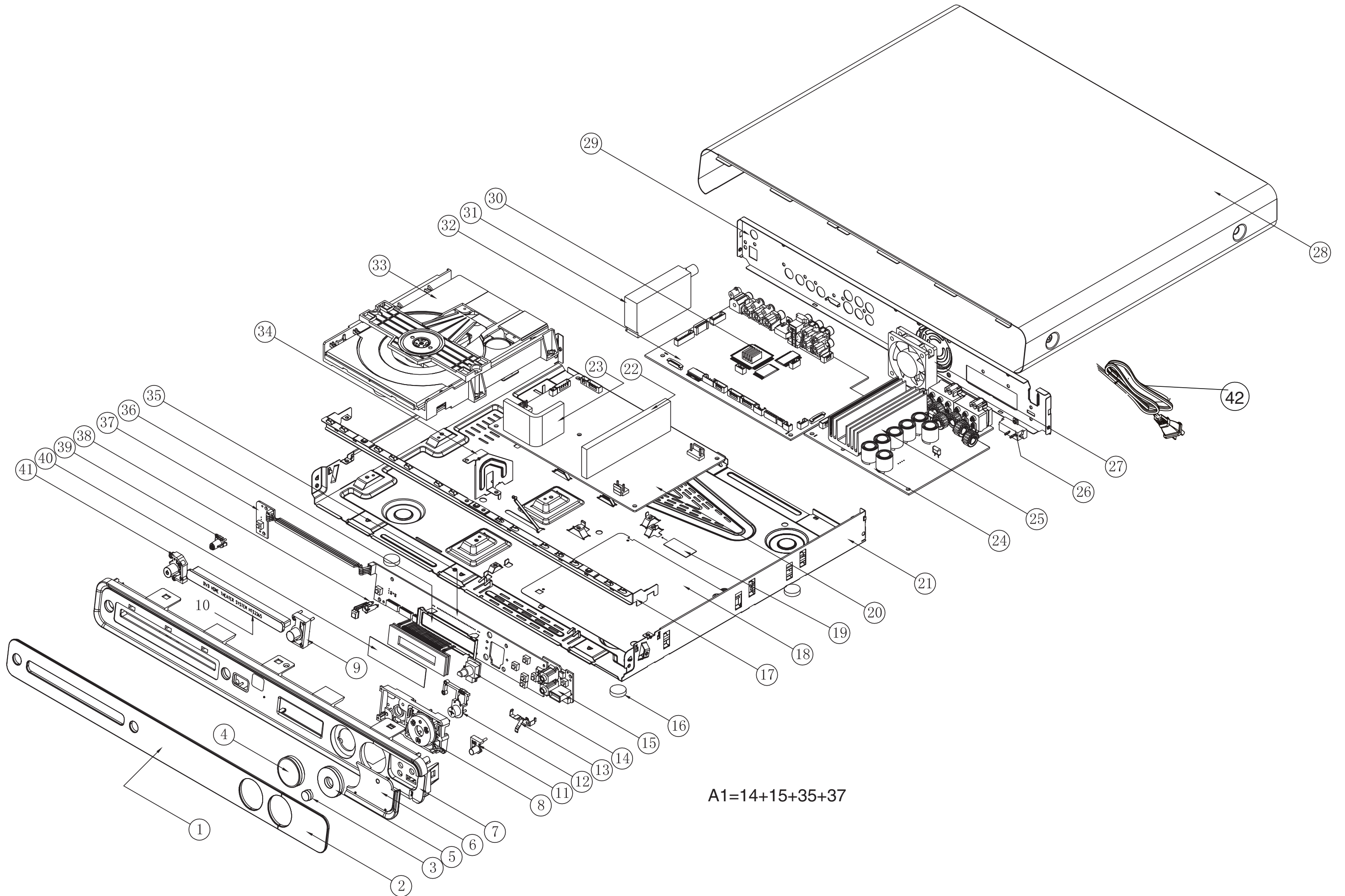
C15	D4	C412	B2	C440	D3	C455	B2	C477	B1	C503	C2	C521	C1	C538	D2	CE406	B3	D404	C1	EC1	A3	FB405	A1	L409	B1	Q416	C4	R407	B2	R430	D3	R455	D2	R484	B2	R514	D4	R529	D3	RB601	D3
C16	D4	C413	B2	C441	D3	C461	D4	C478	B2	C504	C2	C522	C1	C539	D2	CE407	B3	D405	C2	EC2	A3	FB406	A1	L410	B2	Q418	D4	R408	B2	R431	D3	R456	D2	R485	B2	R515	D1	R530	D3	ZD414	D1
C401	B1	C414	A2	C442	D3	C462	C2	C479	B2	C505	C2	C523	C2	C540	D2	CE408	B3	D406	D2	EC3	A3	FB407	A1	L411	B2	Q601	D3	R409	B2	R432	D3	R458	D4	R490	B4	R516	D1	R531	D3	ZD415	C1
C402	A1	C415	A2	C443	B1	C463	C2	C482	B2	C506	C2	C526	C1	C541	D2	CE409	C3	D407	D2	EC4	A3	IC401	B1	L412	B2	R1	A1	R412	D4	R433	D3	R461	D4	R495	B4	R517	D1	R533	D4		
C403	A1	C416	B2	C445	C1	C464	C2	C483	B2	C507	C2	C528	C2	C542	D3	CE410	C3	D408	D2	EC5	A3	IC402	B2	L413	B2	R2	A1	R413	B1	R444	C1	R462	D4	R497	B4	R518	D1	R6	A2		
C404	B1	C425	A1	C446	D4	C465	C2	C490	D2	C508	C2	C529	D2	C545	D4	CE411	C3	D410	C4	EC6	A3	IC404	D3	L414	B2	R3	A1	R414	B1	R445	C1	R466	D3	R5	A2	R519	D1	R601	D3		
C405	B1	C425A	A1	C448	B1	C468	B1	C496	D1	C513	D4	C530	D2	C601	D3	CE412	C3	D411	D3	EC7	A3	IC406	C2	Q407	C1	R4	A1	R419	B1	R446	C1	R467	D3	R501	B4	R520	D1	R602	D3		
C406	A1	C426	A1	C449	B2	C469	B2	C497	C1	C515	D1	C531	D2	C602	D3	CN401	B1	D412	D3	EC8	A3	JK401	A2	Q410	D2	R401	D4	R420	B2	R447	C2	R472	D1	R502	C1	R522	D2	R603	D3		
C407	A2	C427	A2	C450	B1	C470	B1	C498	C1	C516	D2	C533	D2	CE401	B3	CN402	C4	D413	D3	FB1	C2	JK401AA2	Q411	D4	R402	D4	R421	B2	R448	C2	R473	D4	R508	C1	R523	D2	R604	D3			
C408	B2	C427A	A2	C451	B1	C471	B1	C499	C1	C517	D2	C534	D2	CE402	B3	CN403	D1	D414	D3	FB401	C3	L402	A2	Q412	D4	R403	D4	R422	B2	R451	D4	R474	D4	R509	C1	R525	D2	R605	D3		
C409	B2	C428	A2	C452	B1	C472	B2	C500	C1	C518	C1	C535	D2	CE403	B3	D403	A3	D415	D3	FB402	A1	L404	A2	Q413	C1	R404	D4	R423	B2	R452	D4	R479	C2	R510	C1	R526	D3	R7	A2		
C410	A2	C438	D3	C453	B2	C473	B2	C501	C1	C519	D1	C536	D2	CE404	B3	D403	A4	D416	D3	FB403	A1	L407	B1	Q414	C1	R405	D4	R424	B2	R453	D4	R482	B1	R511	C1	R527	D3	R8	A2		
C411	A2	C439	D3	C454	B2	C476	B1	C502	C2	C520	C1	C537	D2	CE405	B3	D404	C1	D420	D2	FB404	A1	L408	B1	Q415	C1	R406	B1	R429	D4	R454	D4	R483	B1	R513	C4	R528	D3	RB401	B1		



MECHANICAL EXPLODED VIEW

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MECHANICAL PART LIST

Loc.	12NC.	Description
MECHANICAL PART LIST		
1	996510018287	DISPLAYLENSPMMAL363.2xW39xT3mm
10	996510013383	DVD DOOR ABS
11	996510012488	MIC LEVEL BUTTON
12	996510010838	SOURCE BRACKET
16	996510010842	RUBBER FOOT
18	996510010826	PVC SHEET
19	996510010827	PVC SHEET
2	996510012485	USB DOOR LENS
20	996510018258	POWER PCB
21	996510018292	CKD BOTTOM PANELGSE100784-1001
24	996510015061	AMP PCB ASSY
27	996510010843	FAN
28	996510018285	CKD TOP COVER GSE100783-0002
29	996510018291	CKD REAR PANEL GSE100785-8010
3	996510010835	SOURCE BUTTON PC PMMA
31	996510001690	TUNER PACK
32	996510015349	MAIN PCB
33	996510018288	DVD LOADER ASSY F-8829C+DM68-S
39	996510010840	STANDBY LENS
4	996510010833	VOLUME KNOB PMMA PC
41	996510010836	POWER KEY
42	310630764881	MAIN CORD 02/1800/02
5	996510010832	FUNCTION BUTTON
6	996510018286	USBDOOR L66.4xW38.4xT4.8SILVER
7	996510018290	FRONT PANEL CKD BPF100060-2001
8	996510010837	FUNCTION BRACKET
9	996510010834	EJECT KEY
A1	996510014546	VFD+JACK+VOL+STANDBY PCB
AM	996510001621	LOOP ANT
FM	996510008251	FM ANT
HDMI	996510013544	HDMI CABLE 1500mm
RC	996510012491	REMOTE CONTROL
V1	996510007429	GP FCCBLE 10P100mmUL20798 P=1
V2	996510011292	FFC CABLE 24P 50mm
V3	996510007319	FFC CABLE 24P 180MM
V3	996510013767	FFC CABLE 24P
Video	996500013058	RCA CABLE 2P 1.2M
Speaker		
RFC	996510001599	RUBBER FOOT -CENTER SPK
RFF	996510001601	RUBBER FOOT - REAR SPK
RFR	996510001601	RUBBER FOOT - REAR SPK
RFS	996510010854	RUBBER FOOT -SUB
SPKC	310630880541	SPEAKER CENTER ASSY
SPKFL	310630880531	SPEAKER FRONT LEFT ASSY
SPKFR	310630880531	SPEAKER FRONT RIGHT ASSY
SPKRL	310630880531	SPEAKER REAR LEFT ASSY
SPKRR	310630880531	SPEAKER REAR RIGHT ASSY
SUBW	310630880521	SUBWOOFER ASSY
POWER PCB		
BD901	996500038405	BRIDGE KBU808 8A 800V
BD901	996500041973	BRIDGE KBU808 8A 800V
BD901	996510011372	BRIDGE KBU808 8A 800V
C901	996500027123	CAP.E 330UF 200V 20% 105°C D18
C902	996500027123	CAP.E 330UF 200V 20% 105°C D18
C903	996500027124	COND METAL 1.5UF 250V DC /-10%
C903	996510018266	COND METAL 1.5uF 250V DC 10%
C920	996500027115	CAP.SAFTY Y1 102PF 250V 20% Y5
C921	994000005343	COND SAFETY 0.22UF 275V 20%
C922	996500027115	CAP.SAFTY Y1 102PF 250V 20% Y5
C937	994000000932	COND SAFTY 0.47UF 275V 10%

C943	996500018042	COND DISC 0.01UF 1KV 20%
C944	996510012511	COND ELECT 2.2 uF 100V
C945	996510012511	COND ELECT 2.2 uF 100V
C960	996500018042	COND DISC 0.01UF 1KV 20%
C961	996500018042	COND DISC 0.01UF 1KV 20%
C962	994000005344	CAP.SAFETY Y1 560PF 400V 10%
C963	996500027115	CAP.SAFTY Y1 102PF 250V 20% Y5
C967	996510004633	COND MYLAR 0.1 uF 100V 5%
C968	996510012514	COND MYLAR 0.15uF 100V 5%
CN901	996500017458	CONNECTOR 3P CL3962WVO
CN901	996510018267	CONNECTOR 3P P=3.96mm180' NICK
CN903	996500017360	CONNECTOR 4P CL3962WVO
CN903	996510016729	CONNEC 4P P=3.96mm 180' NICKEL
CN904	996510012515	CONNECTOR B6B-XH-A 6 PIN
CN905	996500017358	CONNECTOR 7P
CN906	996500015936	CONNECTOR 4PIN P=3.96MM
CN906	996510018268	CONNECTOR 4P P=3.96mm180' NICK
CN907	996500015898	CONNECTOR 2 PIN PITCH=2.0MM
CN908	996500015900	CONNECTOR 3 PIN P=2.0MM
D904	994000005346	RECTIFIER UF1602CT TO-220AB 3P
D904	996500041972	DIODE STPR1620CT 3P
D912	996500026949	DIODE SW 1N4148 PB<1000PPM
D913	996500026949	DIODE SW 1N4148 PB<1000PPM
D917	996510012516	DIODEHER105 DO-411A400V50nSFMS
D918	994000000941	DIODE HER104 1A 300V 50NS
D919	994000000941	DIODE HER104 1A 300V 50NS
D920	994000000938	DIODE PR1507 1.5A 1000V
D921	996500026949	DIODE SW 1N4148 PB<1000PPM
D922	994000000943	DIODE UF3003 3A 200V
D923	994000000941	DIODE HER104 1A 300V 50NS
D924	994000005249	DIODE SB360 3A 60V DO-201AD
D925	996510004297	IN5819 1A 28V SCHOTTKY
D937	996500026949	DIODE SW 1N4148 PB<1000PPM
IC901	996510008293	IC 16P AZ7500BP-E1
IC902	996510004113	IC 8P AP3843GMTR-E1
IC903	994000000946	OPTICAL SENSOR 4P
IC904	994000000946	OPTICAL SENSOR 4P
IC905	994000000952	IC 3PIN TL431
IC905	996500029312	IC 3 PIN TL431 TO-92 CHANG JI
L901	996500027102	TOROID COIL S1=1TS D0.65MMX2 P
L902	994000005341	COMMON COIL 65UH +/-10% 2XD1.2
L903	996510013776	LINE FILTER ET-24
L903	996510013916	LINER FILTER EI-24 7mH 2UEW D0
L904	996510013747	LINE FILTER ET-28
L904	996510013917	LINER FILTER ET-28 15mH 2UEW D0
Q901	996500038406	MOSFET STP10NK60Z 10A 600V
Q904	996510000615	XISTR NPN 2SC945P
Q905	996510000615	XISTR NPN 2SC945P
Q906	996510004282	XISTR NPN SMT (2SC945)
Q907	996510000615	XISTR NPN 2SC945P
Q908	996510000615	XISTR NPN 2SC945P
Q909	996500038406	MOSFET STP10NK60Z 10A 600V
Q910	996500026946	XISTR PNP 2SB772P/Q NEC PB<10
Q911	996500026946	XISTR PNP 2SB772P/Q NEC PB<10
Q912	994000005348	MOSFET STF3NK80Z N-CH 2.5A
Q913	996510004298	XISTR NPN 2N5551B TO-92
Q913	996510018269	XISTR NPN 2N5551-EEC TO-92 ST
Q914	996510004298	XISTR NPN 2N5551B TO-92
Q914	996510018269	XISTR NPN 2N5551-EEC TO-92 ST
Q915	996500026939	XISTR PNP 2SA952 NEC PB<1000P
Q915	996510010356	XISTR PNP 2SB647 TO-92MOD
Q916	996510012518	TRIACS 3P MCR100-6 TO-92 CJ
Q917	996510004282	XISTR NPN SMT (2SC945)
Q991	994000000921	XISTR PNP 2SA812 HFE:200-400
R905	996510012519	RES. 120 OHM 3W 5% MOF
R906	996510012519	RES. 120 OHM 3W 5% MOF
R908	996510012519	RES. 120 OHM 3W 5% MOF
R965	996510012520	RES. 1 OHM 2W 5% MO

T901	996510012522	SWTRANS EC-39DWB486-8519 600W
T901	996510012523	SW TRANS ER39/40 600W 8+8PIN
T902	994000001057	SW. MODEL TRANSFORMER
T903	996510012524	SWTRANS EEL-25 40WDWB486-8218
T903	996510012525	SW TRANS EEL-25 6+8P
ZD901	994000002067	DIODE ZENR 14.5-15.1V 0.5W
ZD907	994000002067	DIODE ZENR 14.5-15.1V 0.5W
ZD908	996500026940	DIODE ZENR 11.9-12.4V 0.5W

MAIN PCB

CN201	996500015859	CONNECTOR 4PIN P2.0MM
CN202	996510012494	CONNECTOR 5 PIN RED
CN203	996510012495	CONNECTOR 4P
CN205	996510012496	CONNECTOR 7P
CN206	996500015900	CONNECTOR 3 PIN P=2.0MM
CN207	996500015895	CONNECTOR 5 PIN P=2.0MM
CN208	996500015897	CONNECTOR 3 PIN RED P=2.0MM
CN301	996510012497	FPC/FFC CONN. 10P
CN303	996500018015	CONNECTOR 3P
CN401	996500015895	CONNECTOR 5 PIN P=2.0MM
CN801	996510012498	CHIP HOUSING 24P
CN802	996500015901	CONNECTOR 6 PIN P=2.0MM
CN803	996500015895	CONNECTOR 5 PIN P=2.0MM
D201	996510010358	DIODE 1N4007
D204	996510010358	DIODE 1N4007
IC201	996510012499	IC 28P
IC202	996510013913	IC48P EN29LV320B-70TCPTSOP EON
IC203	996500041284	IC 3P STM809SWX6F 3.0V
IC204	996510004289	IC 8P TU24C16CS2 SOIC TURBO
IC205	996500041967	IC 20P SN74HC374PW
IC206	996510004115	IC 54P AS81F641642C-6P TSOPII
IC206	996510009895	IC 54P A641604L-6T TSOP II
IC207	996510012500	IC 20 PIN SN74HC244PWR TSSOPTI
IC208	996510013914	IC 28P P89LPC931FDH TSSOP PHIL
IC209	996510012502	IC 256P MT1389FXE/S LQFP MEDIA
IC210	996500027090	IC 3 PIN AP1117E18LA 1.8V SOT2
IC301	996500029611	IC 8P CO4558A SO8 CERAMATE LF
IC301	996500041286	IC 8P 4558
IC303	996500029611	IC 8P CO4558A SO8 CERAMATE LF
IC303	996500041286	IC 8P 4558
IC304	996510012503	IC 16P CD4051BM SOIC TI ANALOG
IC305	996510012503	IC 16P CD4051BM SOIC TI ANALOG
IC306	996510012504	IC 20P WM8782SEDS SSOP WOLFSON
IC309	996510012500	IC 20 PIN SN74HC244PWR TSSOPTI
IC801	996510010380	Motor Drive IC
IC801	996510012506	IC 28P AM5888S L/F HSOP AMTEK
JK302	996510004283	RCA JACK 4P AUDIO
JK601	996510012507	HDMI JACK 19P PDVBT8-19 FLBS4N
JK701	996500023599	RCA+DIN JK 1RCA+4P DIN YEL
JK702	996500012609	RCA JACK R/G/B
JK703	996500017363	RCA JACK 1P W/GND P
Q201	996510000615	XISTR NPN 2SC945P
Q204	996510012508	XISTR PNP TIP42C
Q300	994000000915	XISTR NPN 2SC1623
Q302	994000000915	XISTR NPN 2SC1623
Q303	994000000915	XISTR NPN 2SC1623
Q304	994000000915	XISTR NPN 2SC1623
Q305	994000000915	XISTR NPN 2SC1623
Q601	996510008289	FET AO3402 SOT23 30V/4A
Q602	996500041281	FET 2N7002 60V/115MA
Q801	996510004117	FET 2SK3018 30V/0.1A SC-70
Q802	994000000915	XISTR NPN 2SC1623
Q803	996500026927	XISTR PNP 2SB1132RT100 ROHM HF
Q804	996500026927	XISTR PNP 2SB1132RT100 ROHM HF
Q805	996510004117	FET 2SK3018 30V/0.1A SC-70
Q901	996510000615	XISTR NPN 2SC945P
Q903	996500026946	XISTR PNP 2SB772P/Q NEC PB<10

Q904	994000005335	XISTR NPN TIP41C
ZD901	994000005204	DIODE ZENR 12.6-13.1V 0.5W
ZD903	996510010364	DIODE ZENER 5.32-5.88V 0.5W
ZD904	996500028741	DIODE ZENR 9.1-9.5V 0.5W PB<10

AMP PCB

CN401	996510012526	C/W 5P 50mm 2468 26 RAINBOW
CN402	996500015862	CONNECTOR B2B-XH-A 2 PIN
IC401	996510008280	IC 36P STA516B
IC402	996510008280	IC 36P STA516B
IC404	996500029611	IC 8P CO4558A SO8 CERAMATE LF
IC404	996500041286	IC 8P 4558
IC406	996510012527	IC 64P STA309A TQFP ST
JK401&401A	996510013837	GPSPK JAC12P RD-WT-GRN-GRY-BLU
L402	996510011371	COIL 4P 100UH 30% 1KHZ 0.25V
L402	996510012530	TOROIDCOIL4P110uH+/-25uH1KHz
L404	996510011371	COIL 4P 100UH 30% 1KHZ 0.25V
L404	996510012530	TOROIDCOIL4P110uH+/-25uH1KHz
Q407	996510000578	XISTR NPN KTC3875-Y
Q410	994000000921	XISTR PNP 2SA812 HFE:200-400
Q411	994000000921	XISTR PNP 2SA812 HFE:200-400
Q412	994000000921	XISTR PNP 2SA812 HFE:200-400
Q413	994000000915	XISTR NPN 2SC1623
Q414	996500028742	XISTR NPN 2SD882P PB<1000PPM
Q415	996510000615	XISTR NPN 2SC945P
Q416	996510000578	XISTR NPN KTC3875-Y
Q418	996510000578	XISTR NPN KTC3875-Y
Q601	994000000915	XISTR NPN 2SC1623
ZD414	996500027138	DIODE ZENR 3.8-4.0V 0.5W
ZD415	996500027138	DIODE ZENR 3.8-4.0V 0.5W

VFD+JACK+VOL+STANDBY PCB

JK11	996510004129	KARAOKE JACK D3.6MM 7P
JK12	996510004129	KARAOKE JACK D3.6MM 7P
USB11	996510013742	USB JACK 4P
CN12	996500018030	CONNECTOR 2P
D12	996500026949	DIODE SW 1N4148 PB<1000PPM
D13	996500026949	DIODE SW 1N4148 PB<1000PPM
DP11	996510012856	VFD 32P
IC11	996500029614	IC 52 PIN PT6311(PTC)
IC11	996500041280	IC 52P ET16311 VFD DRIVER
Q11	994000000915	XISTR NPN 2SC1623
Q12	994000000921	XISTR PNP 2SA812 HFE:200-400
Q13	994000000921	XISTR PNP 2SA812 HFE:200-400
Q14	994000000921	XISTR PNP 2SA812 HFE:200-400
Q15	994000000921	XISTR PNP 2SA812 HFE:200-400
Q16	994000000921	XISTR PNP 2SA812 HFE:200-400
SN11	994000005472	IRT RECEIVER IRM-2638AF4
LD11	996510004102	LED 3 DIA RED ROUND

REVISION LIST

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Version 1.0
*Initial release