

Service
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Service



Service Manual



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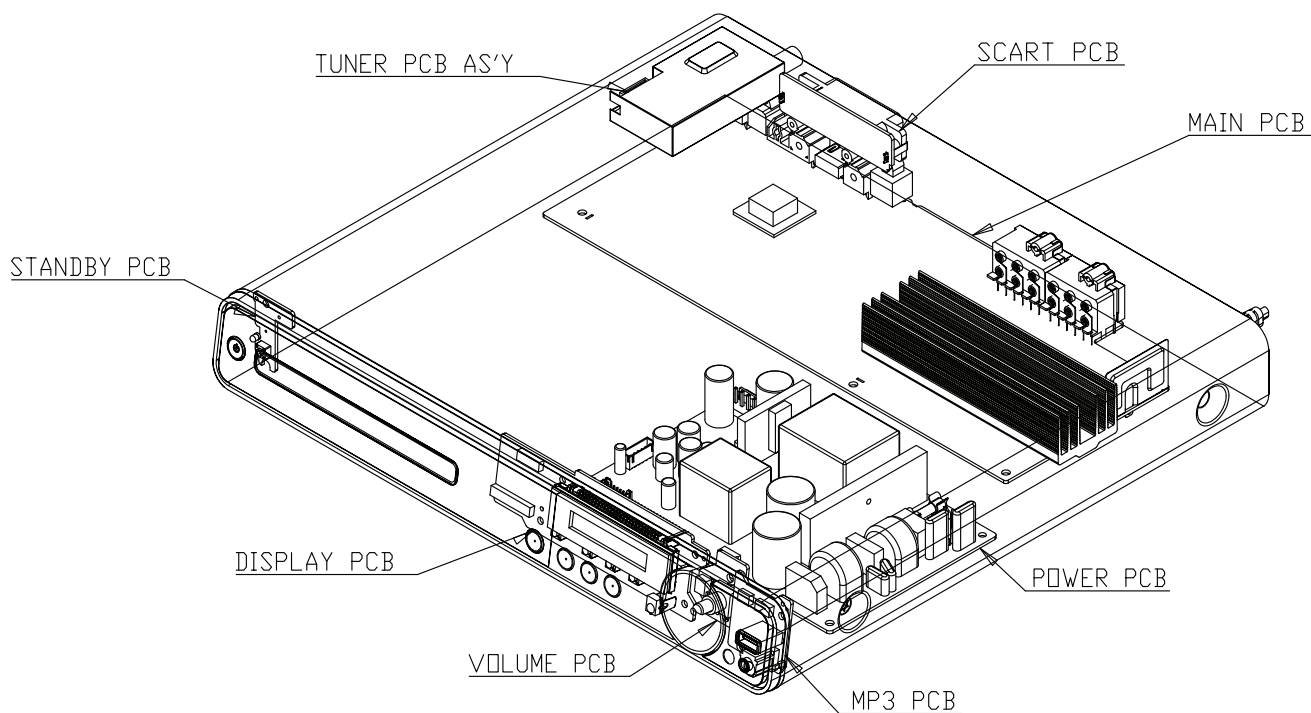
GB 3139 785 34971

Version 1.1



PHILIPS

LOCATION OF PCB BOARDS



VERSION VARIATION:

Type/Versions	HTS3376
Features	/12
Output Power - 1000W	X
Voltage (220~240V)	X
MP3 Link	X

SERVICE SCENARIO MATRIX:

Type/Versions	HTS3376
Board in used	/12
MAIN Board	C
Power Board	C
DISP+LED+VOL Board	C
Scart Board	C
MP3 IN Board	C

*C = Component Level Repair

SPECIFICATIONS

Playback media

DVD-Video, DVD+R/+RW, DVD-R/-RW, DVD+R DL, CD-R/
CD-RW, Audio CD, Video CD/SVCD, Picture CD, MP3-CD,
WMA-CD, DivX-CD, USB flash drive

Amplifier

Total output power.....
Home Theatre mode..... 1000 W(6 X 167)
Frequency response.....40 Hz ~ 20 kHz
Signal-to-noise ratio..... > 60 dB
..... (A-weighted)
Input sensitivity.....
AUX 400 mV
SCART TO TV..... 250 mV
MP3 LINK 250 mV

Disc

Laser Type..... Semiconductor
Disc diameter..... 12cm / 8cm
Video decoding..... MPEG1/ MPEG2 / DivX
..... / DivX Ultra
Video DAC..... 12 bits, 108 MHz
Signal system PAL / NTSC
Video S/N 56 dB
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

Radio

Tuning range FM 87.5–108 MHz (50 kHz)
2 6 dB quieting sensitivity FM 22 dBf
IF rejection ratio.....FM 60 dB
Signal-to-noise ratio.....FM 50 dB
Harmonic distortion..... FM 3%
Frequency response.....FM 180 Hz~10 kHz
..... / ±6dB
Stereo separation FM 26 dB (1 kHz)
Stereo Threshold..... FM 29 dB

USB

CompatibilityHi-Speed USB (2.0)
Class support..... UMS (USB Mass Storage Class)
File system FAT12, FAT16, FAT32

Main Unit

Power supply220–240 V; ~ 50 Hz
Power consumption 180 W
Standby power consumption < 1 W
Dimensions (WxHxD) 360 x 57 x 331 (mm)
Weight2.87 kg

Speakers

System..... full range satellite
Speaker impedance..... 4 ohm (centre), 4 ohm (Front/Rear)
Speaker drivers
Centre/Front/Rear..... 3" full range
Frequency response..... 150 Hz ~ 20 kHz
Dimensions (WxHxD)
- Centre..... 244 x 103 x 74 (mm)
- Front..... 103 x 203 x 71 (mm)
- Rear..... 262 x 1199 x 264 (mm)
Weight
- Centre.....0.79 kg
- Front.....0.54 kg
- Rear.....3.38 kg

Subwoofer

Impedance..... 4 ohm
Speaker drivers 165 (6.5") woofer
Frequency response.....40 Hz ~ 150 Hz
Dimensions (WxHxD) 163 x 363 x 369 (mm)
Weight4.85 kg

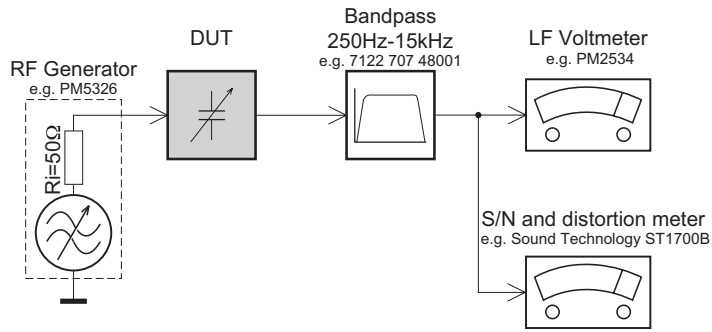
Laser specification

Type..... Semiconductor laser GaAlAs (CD)
Wave length..... 645 - 665 nm (DVD),770 - 800 nm (CD)
Output power6 mW (DVD),7 mW (VCD/CD)
Beam divergence..... 60 degrees.

Specifications subject to change without prior notice.

MEASUREMENT SETUP

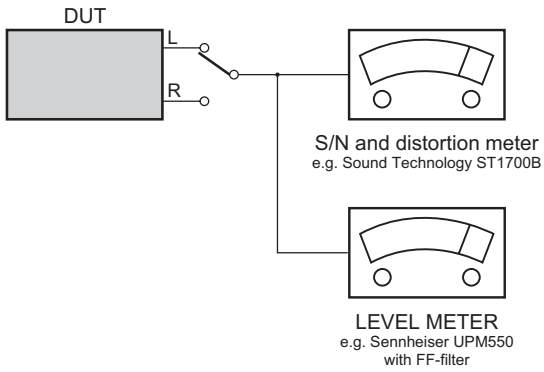
Tuner FM



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

CD

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



SERVICE AIDS

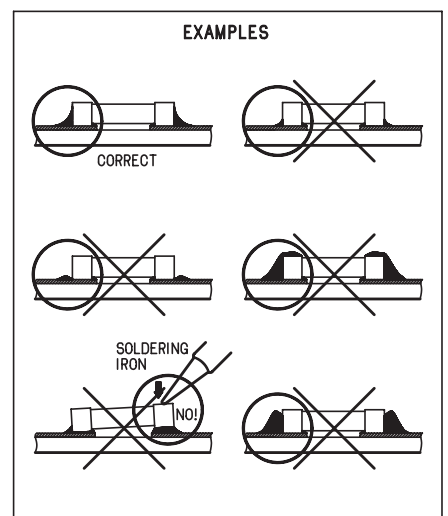
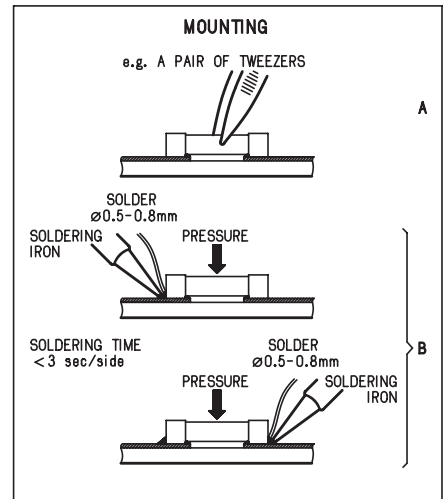
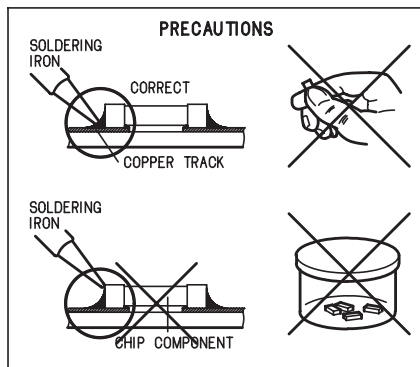
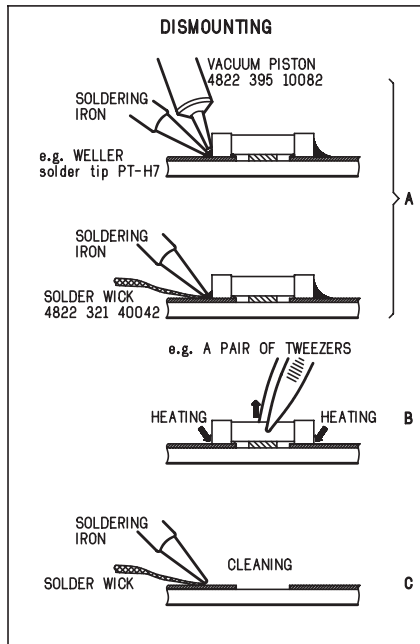
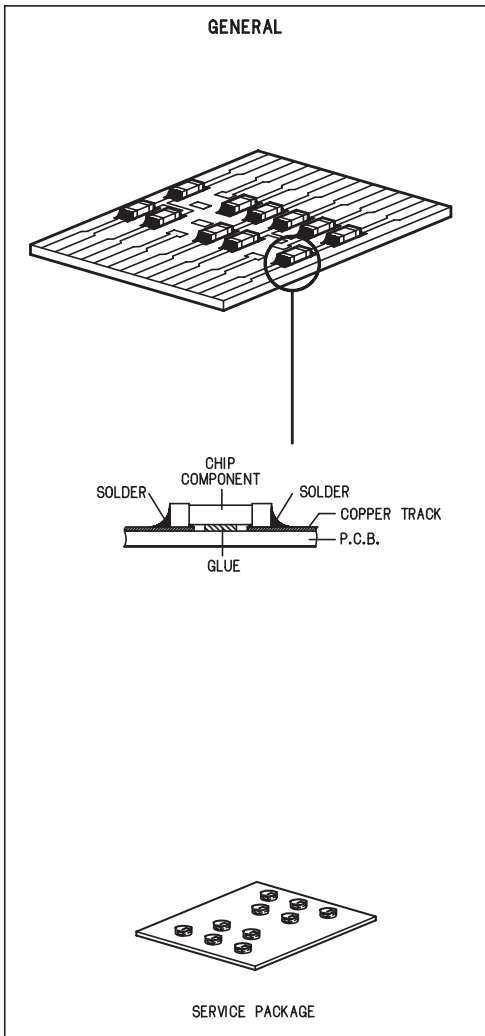
Service Tools:

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


(F)

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

Pb(Lead) Free Solder

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

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

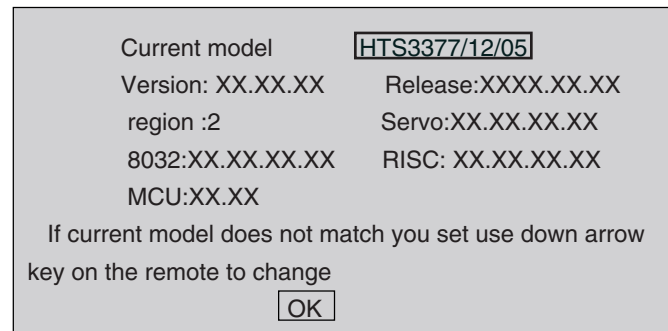
2)Region Code Change

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



4)Password Change

- Press "SETUP" 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 Software 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"

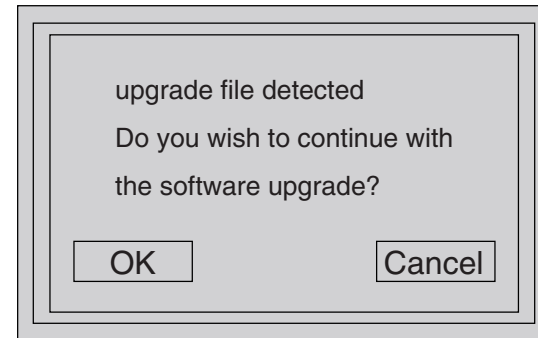
7) Upgrading new software

- Copy "software files" into a CD-R
- Open the CD Door,then insert the CD-R program disc
- Close the CD Door
- VFD will show:

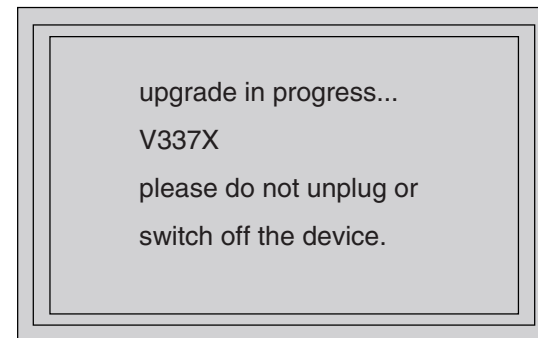
"Loading"
 "Erase" -- erase the flash memory
 "Writing" about 1 minute
 "done "

* the system will switch off and on again automatically.

- OSD will show:



- Select "OK", OSD will show:

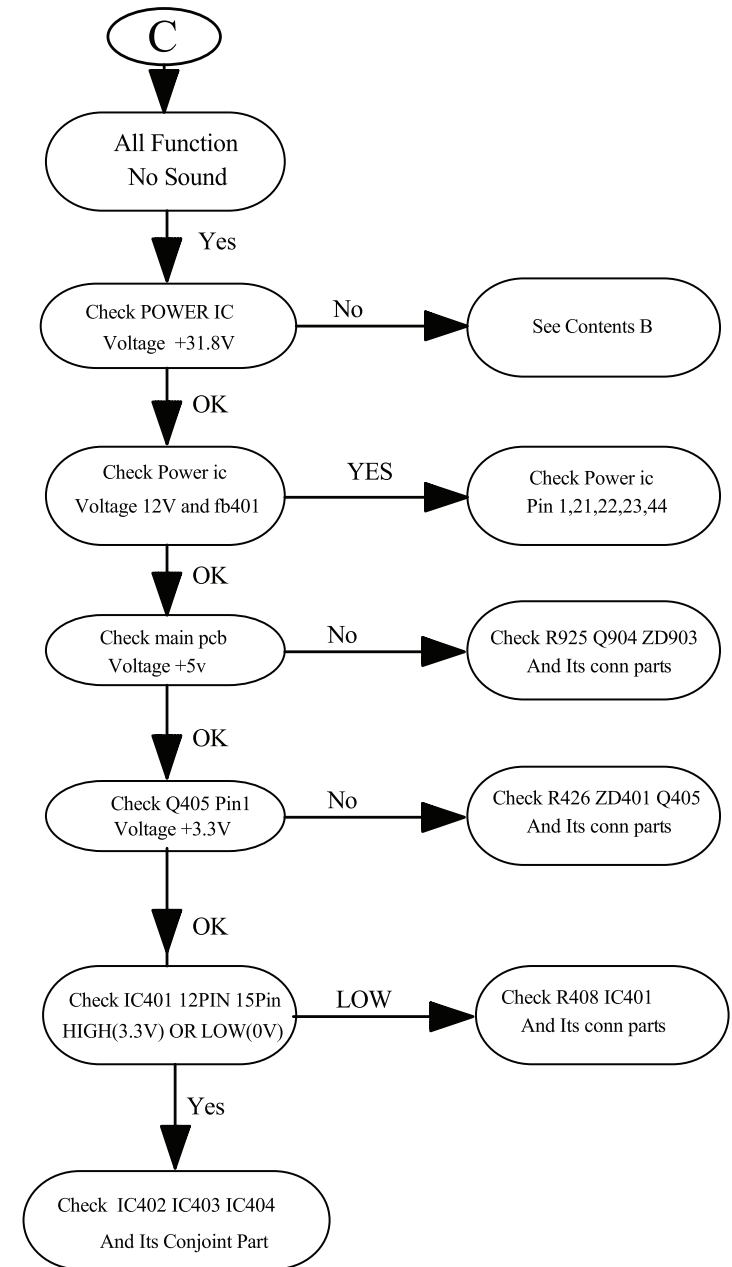
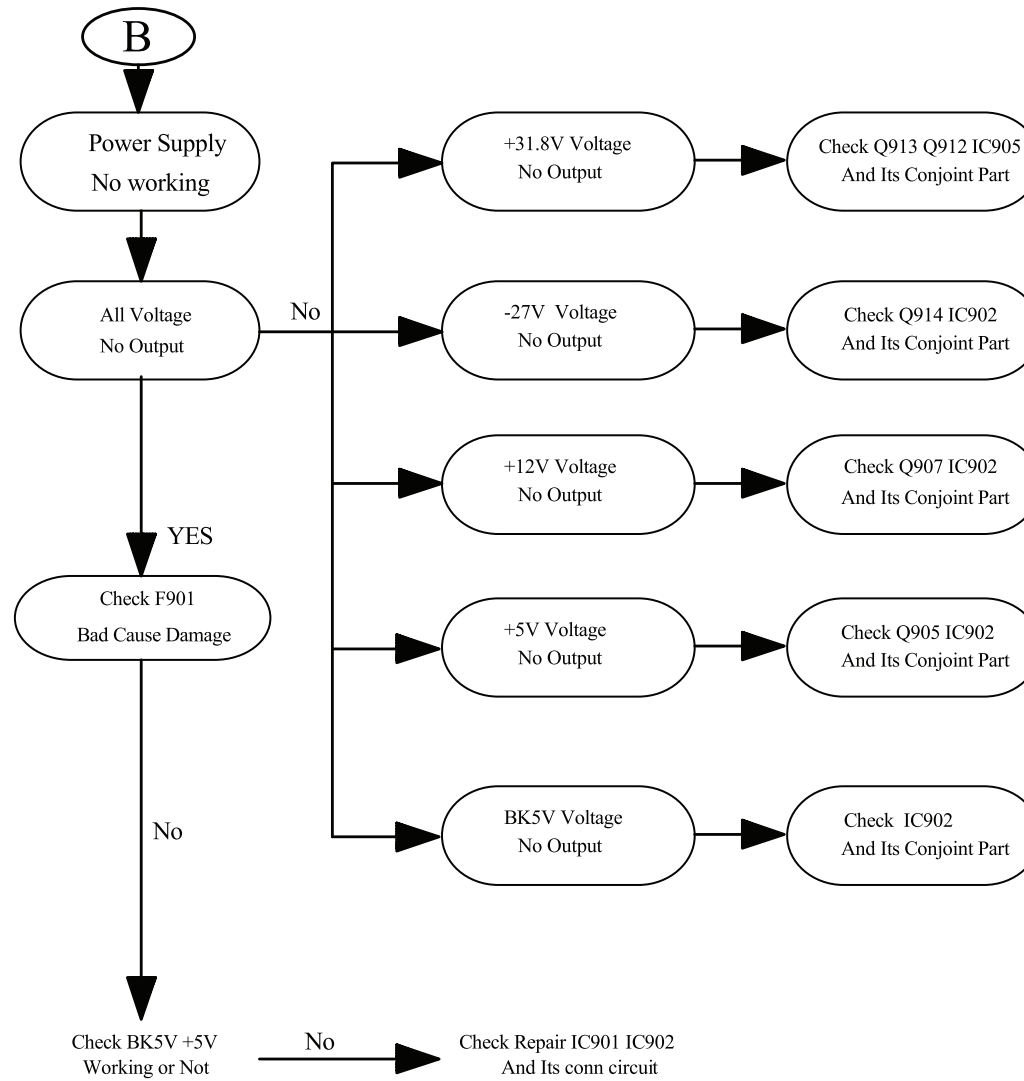
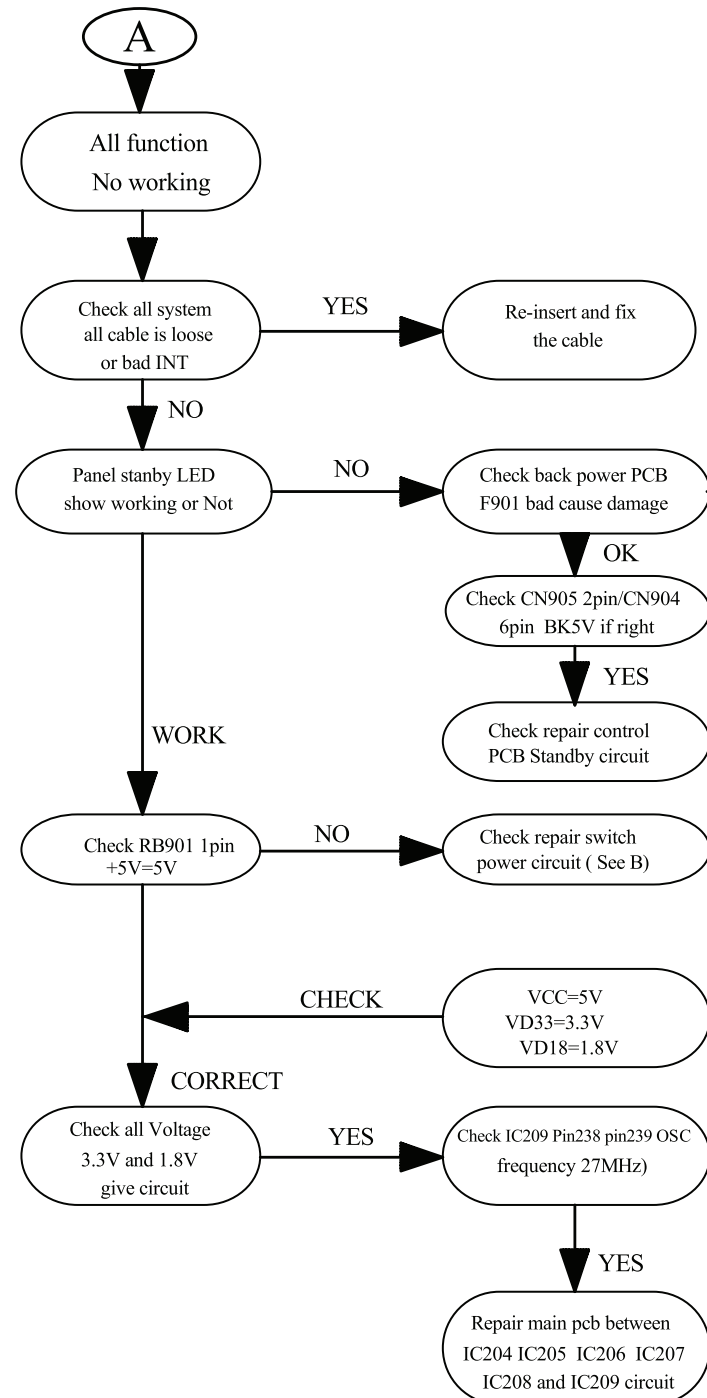


CAUTION!

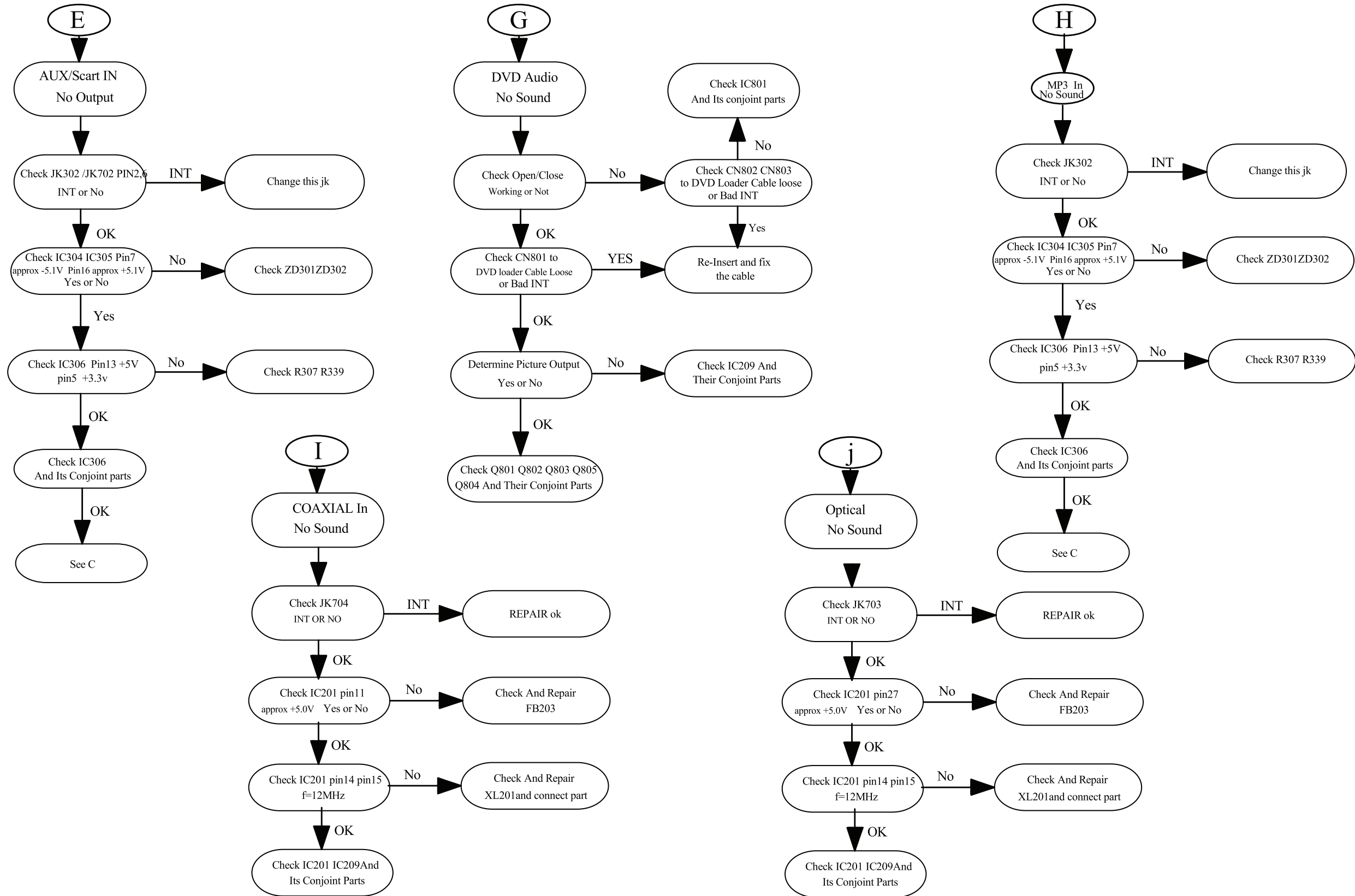
This information is confidential and may not be distributed.Only a qualified service person should reprogram the Region Code.

MAIN UNIT REPAIR CHART 1/3

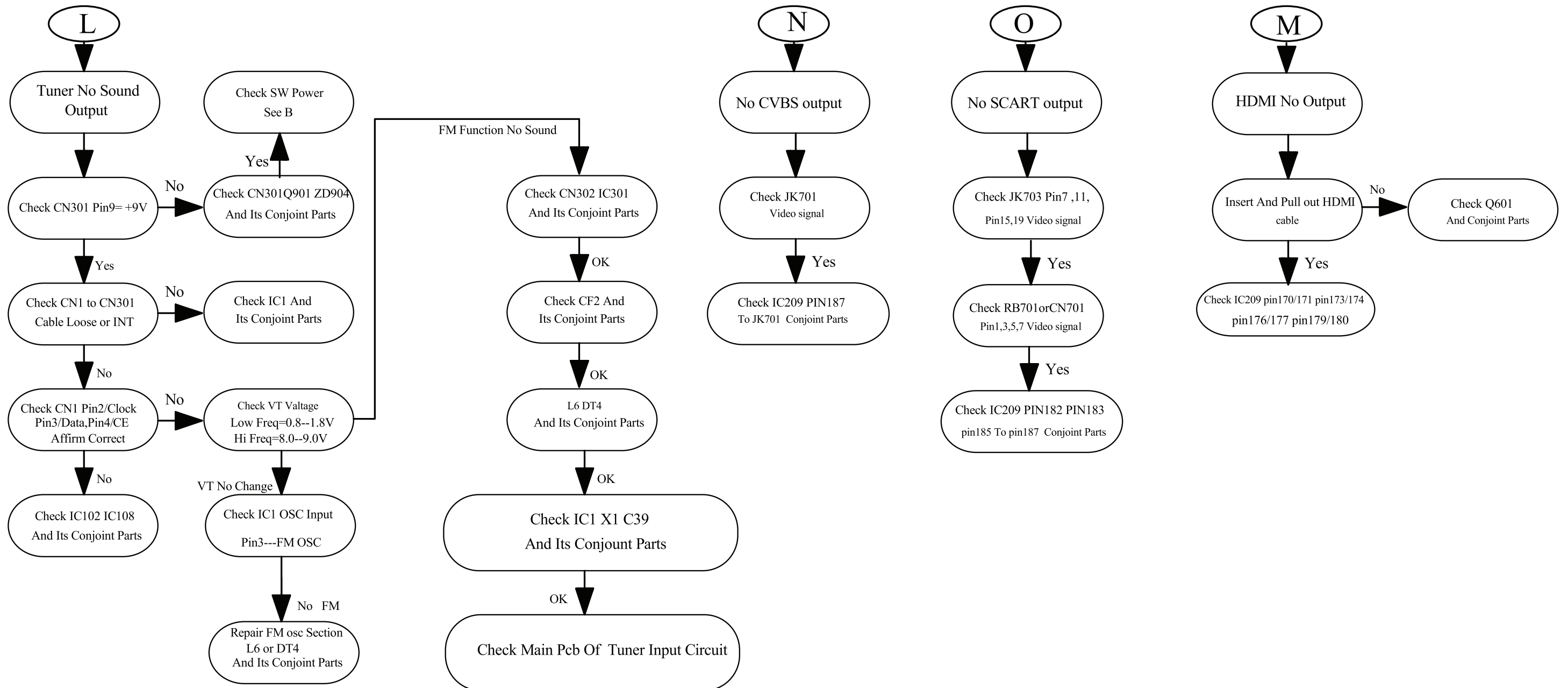
- A**
 All Function
 No Working
- B**
 Power Supply
 No Working
- C**
 All Function
 No Sound
- E**
 Audio line IN
 No Output
- G**
 DVD Audio
 No Sound
- H**
 MP3 In
 No Sound
- I**
 COAXIAL In
 No Sound
- L**
 Tuner No Sound
- M**
 HDMI No Output
- N**
 No CVBS Output
- O**
 No SCART output



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 left 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.

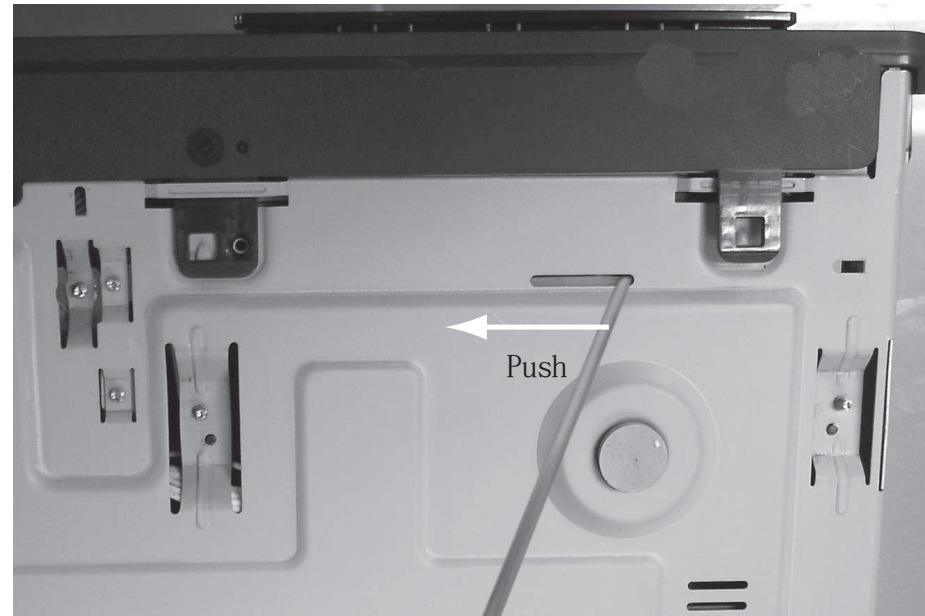


Figure 1



Figure 2

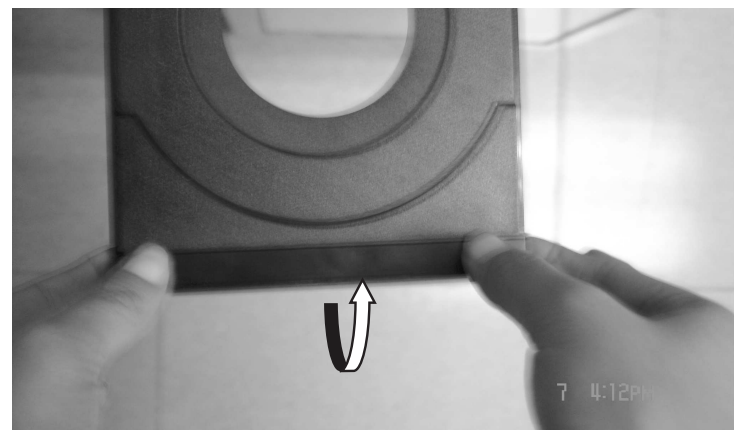


Figure 3

- 3) Loosen 6 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.
 - 4 screws "B" at the back panel as shown in figure 5.
- 4) Loosen 5 screws "C" at the front panel bracket as in figure 6 to remove the front panel.

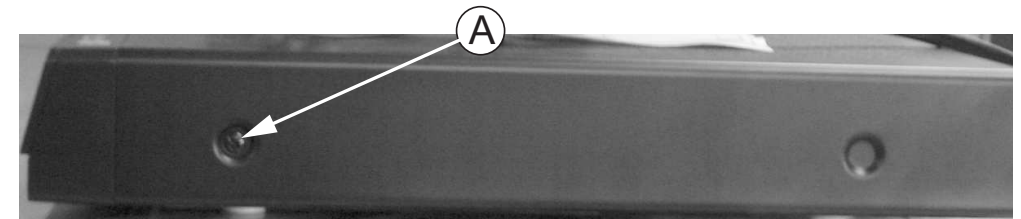


Figure 4

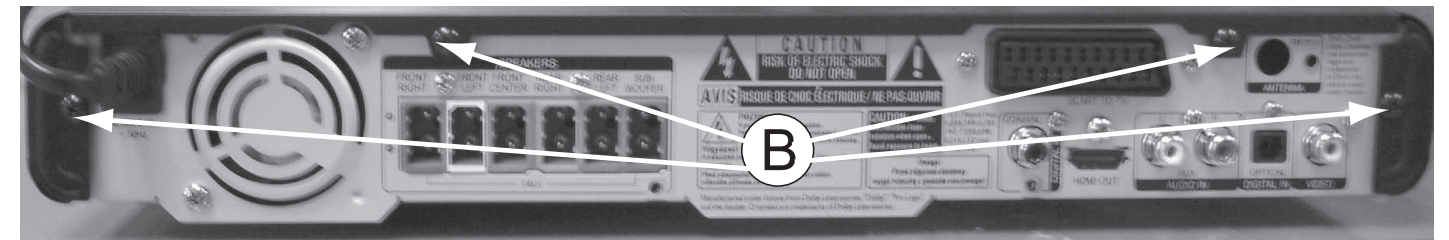


Figure 5

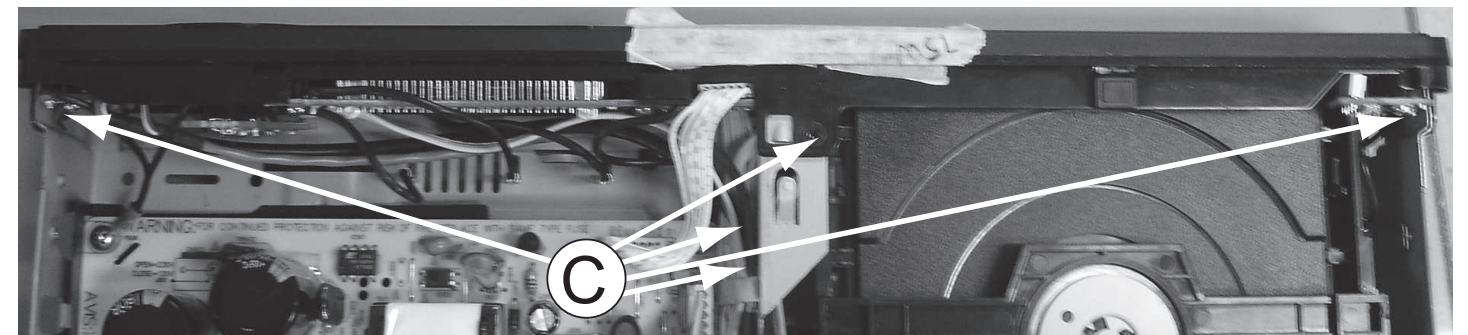


Figure 6

Dismantling of the DVD Module

- 1) Loosen 4 screws "D" at the DVD Module as shown in figure 7.

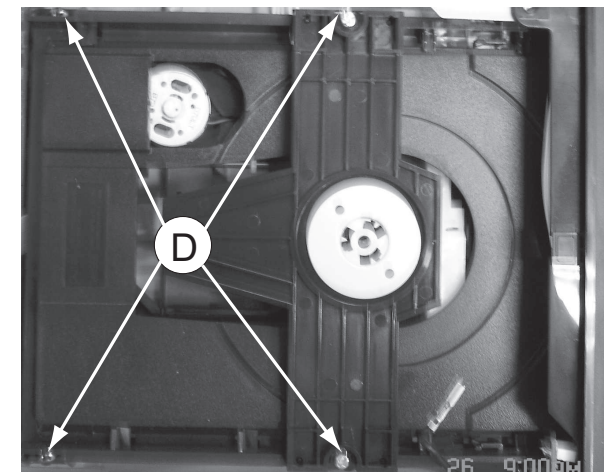


Figure 7

Dismantling of the DISP+LED+VOL&MP3 IN Board

- 1) Loosen 10 screws "E" on the top of DISP+LED+VOL&MP3 IN Board as shown in figure 8.

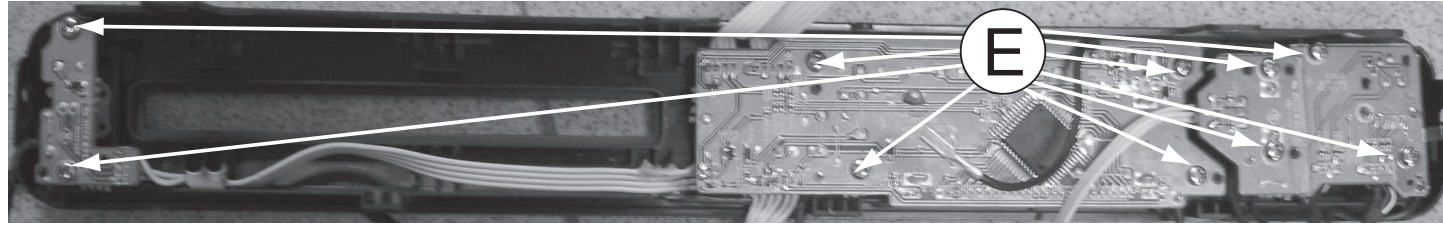


Figure 8

Dismantling of the Power Board

- 1) Loosen 4 screws "F" on the top of Power Board as shown in figure 9.
- 2) With a pincers to nip this space as shown in figure 10 and to take up the power board.

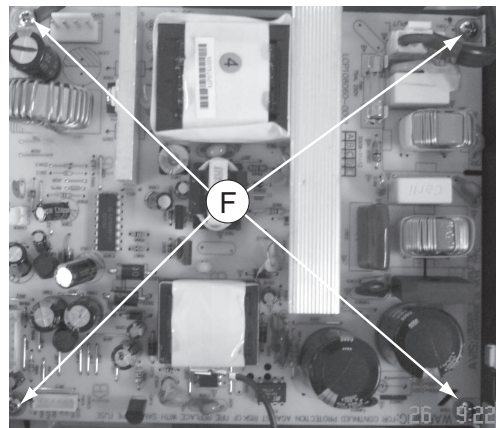


Figure 9

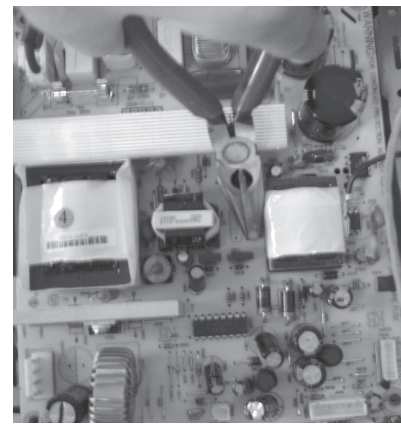


Figure 10

Dismantling of the MAIN+SCART Board

- 1) Loosen 4 screws "G" on the top of Main Board as shown in figure 11.
- 2) At the back panel, loosen 9 screws to remove MAIN Board and loosen 2 screw to remove Scart Board as shown in figure 12.

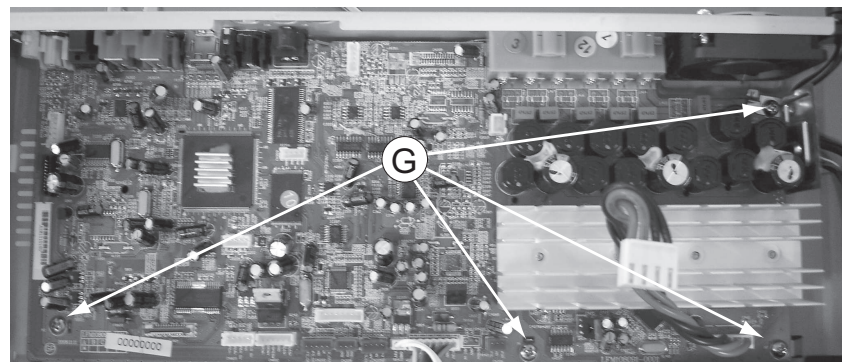


Figure 11

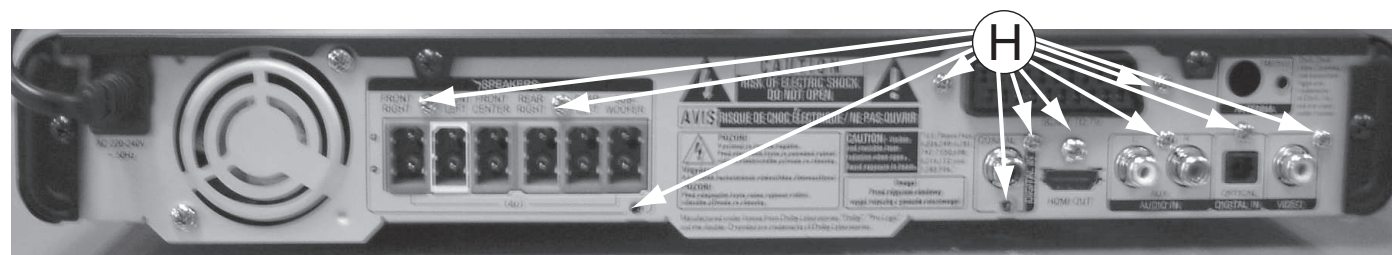
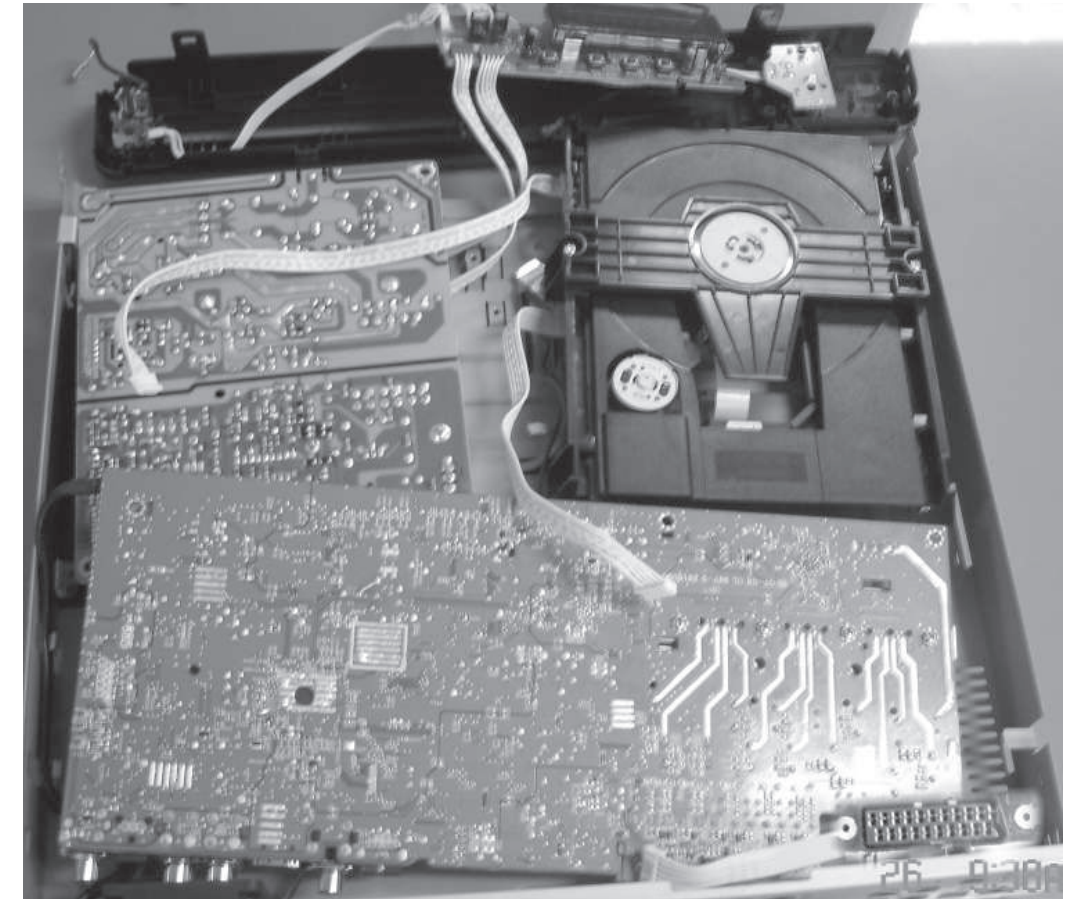


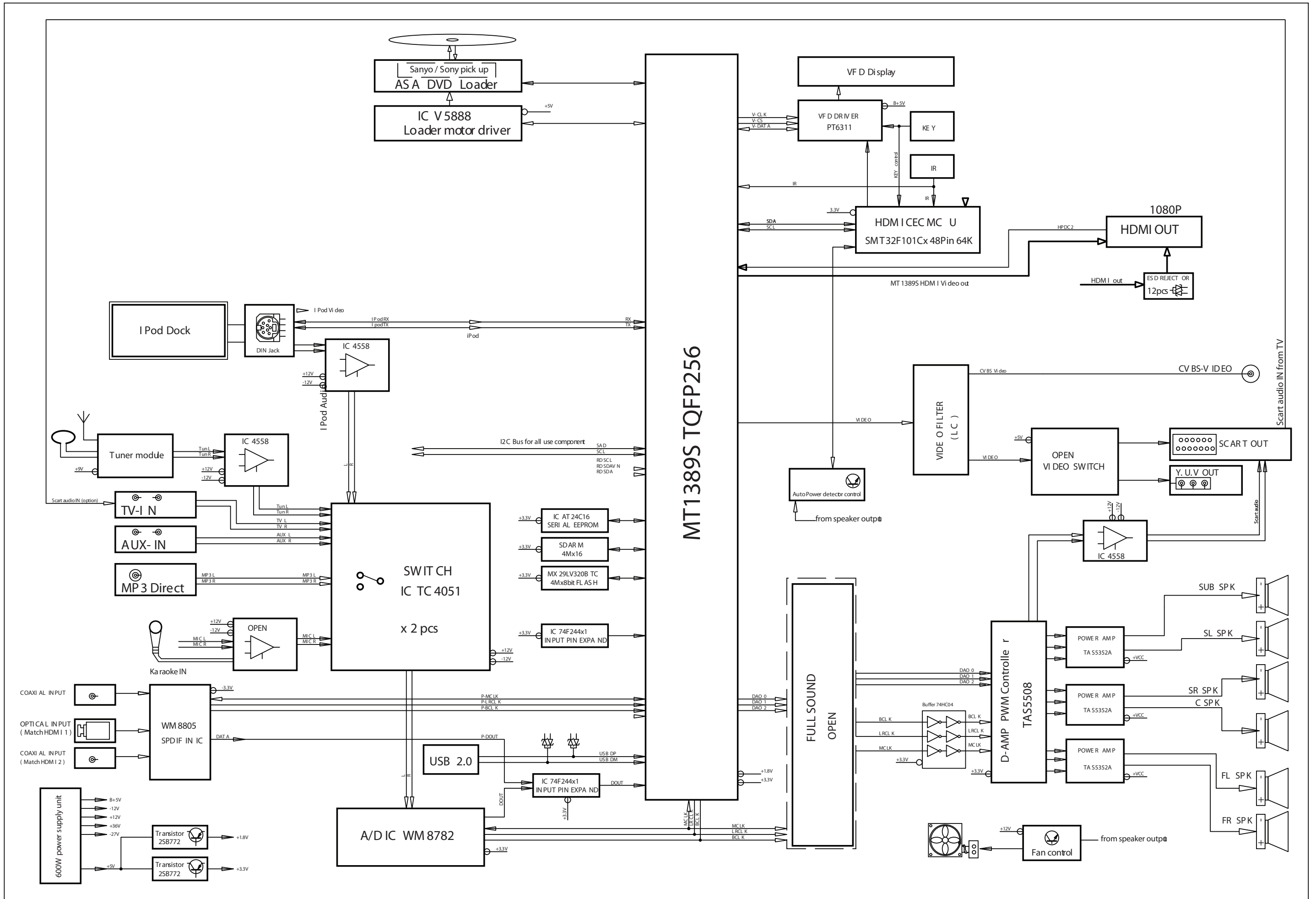
Figure 12

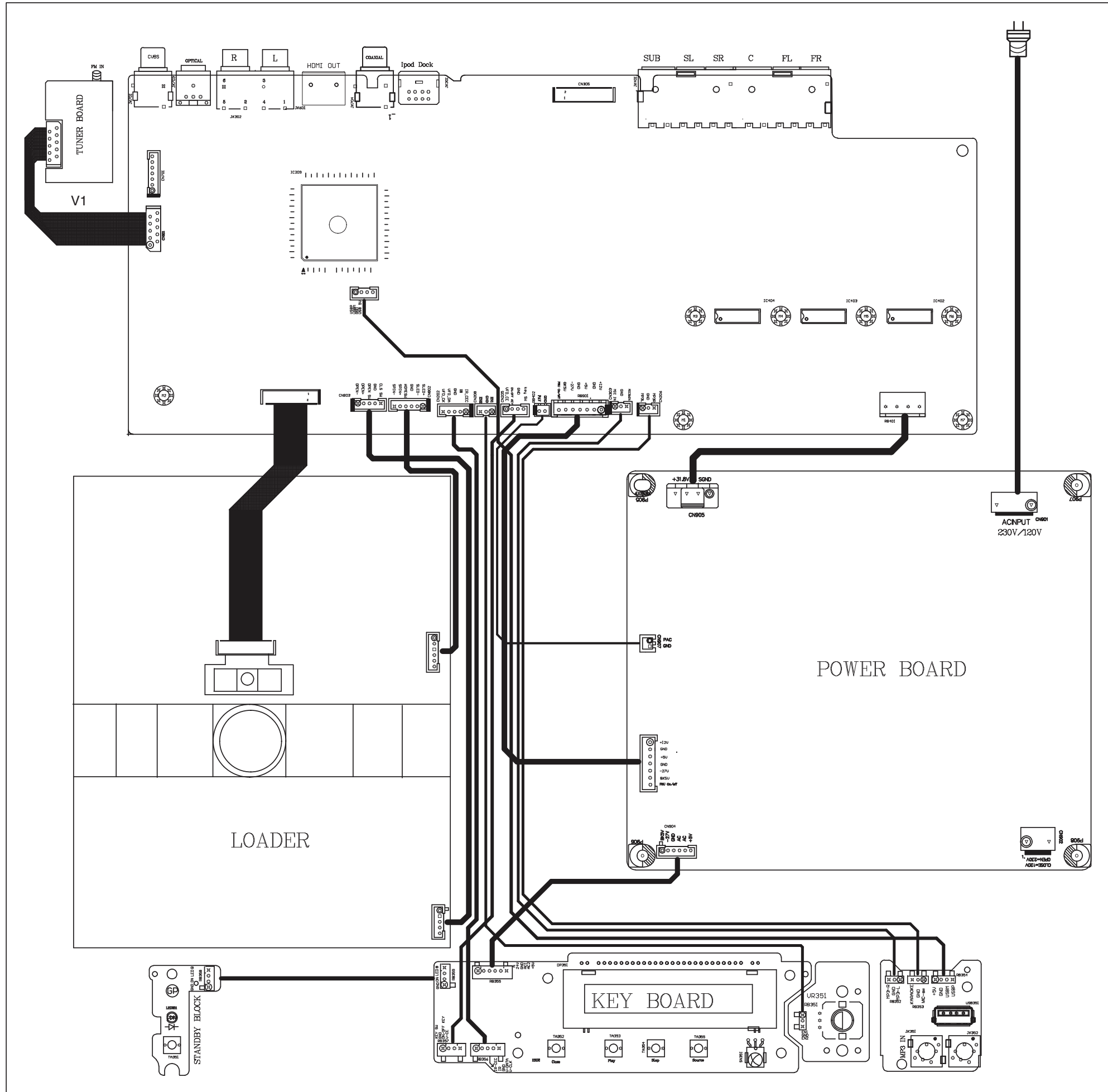
SERVICE POSITIONS

Service position A

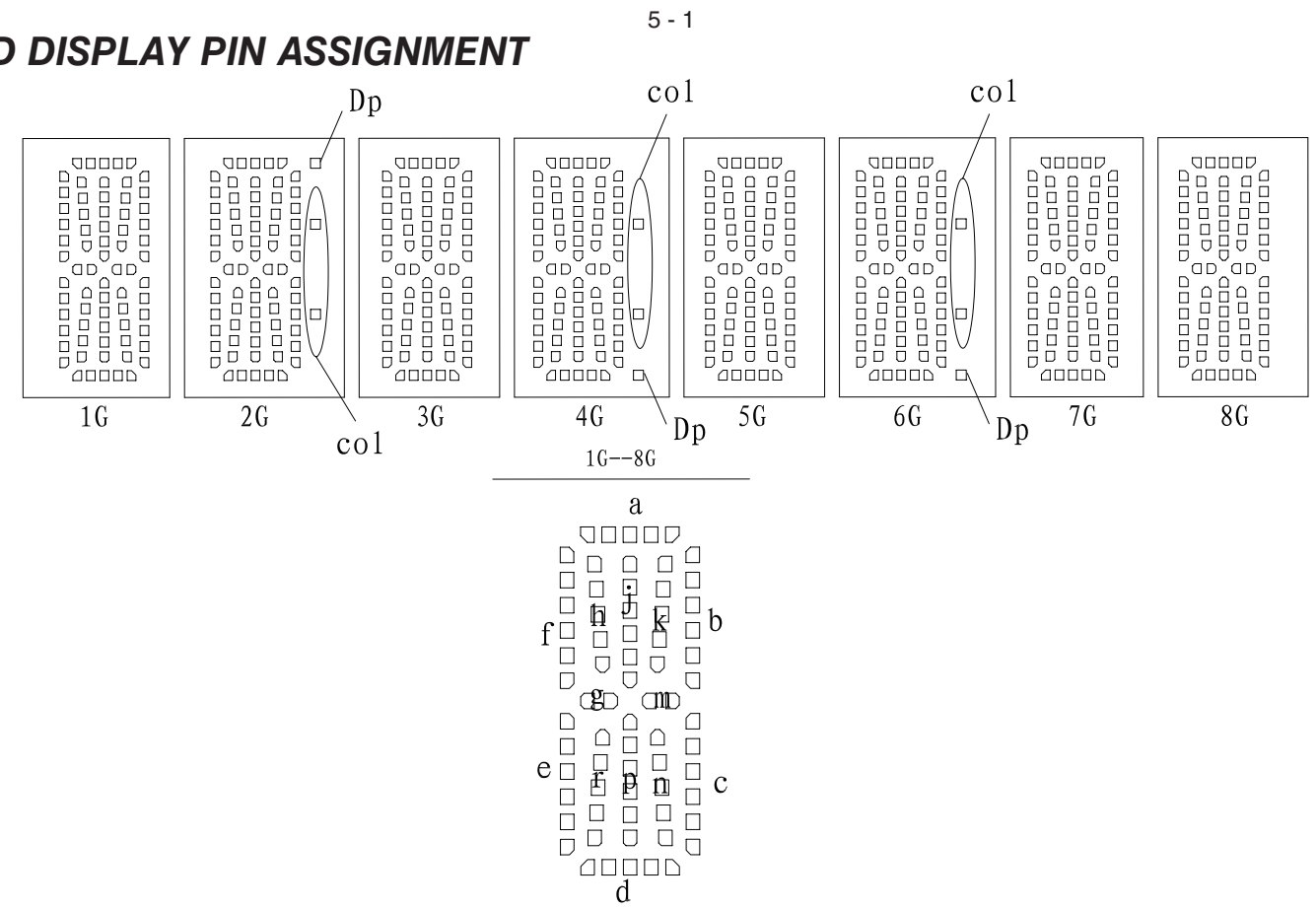


Note: In some service positions the components or copper patterns of one board may risk touching its neighbouring pc boards or metallic parts. To prevent such short-circuit use a piece of hard paper or other insulating material between them.





FTD DISPLAY PIN ASSIGNMENT



DISP+LED+VOL BOARD

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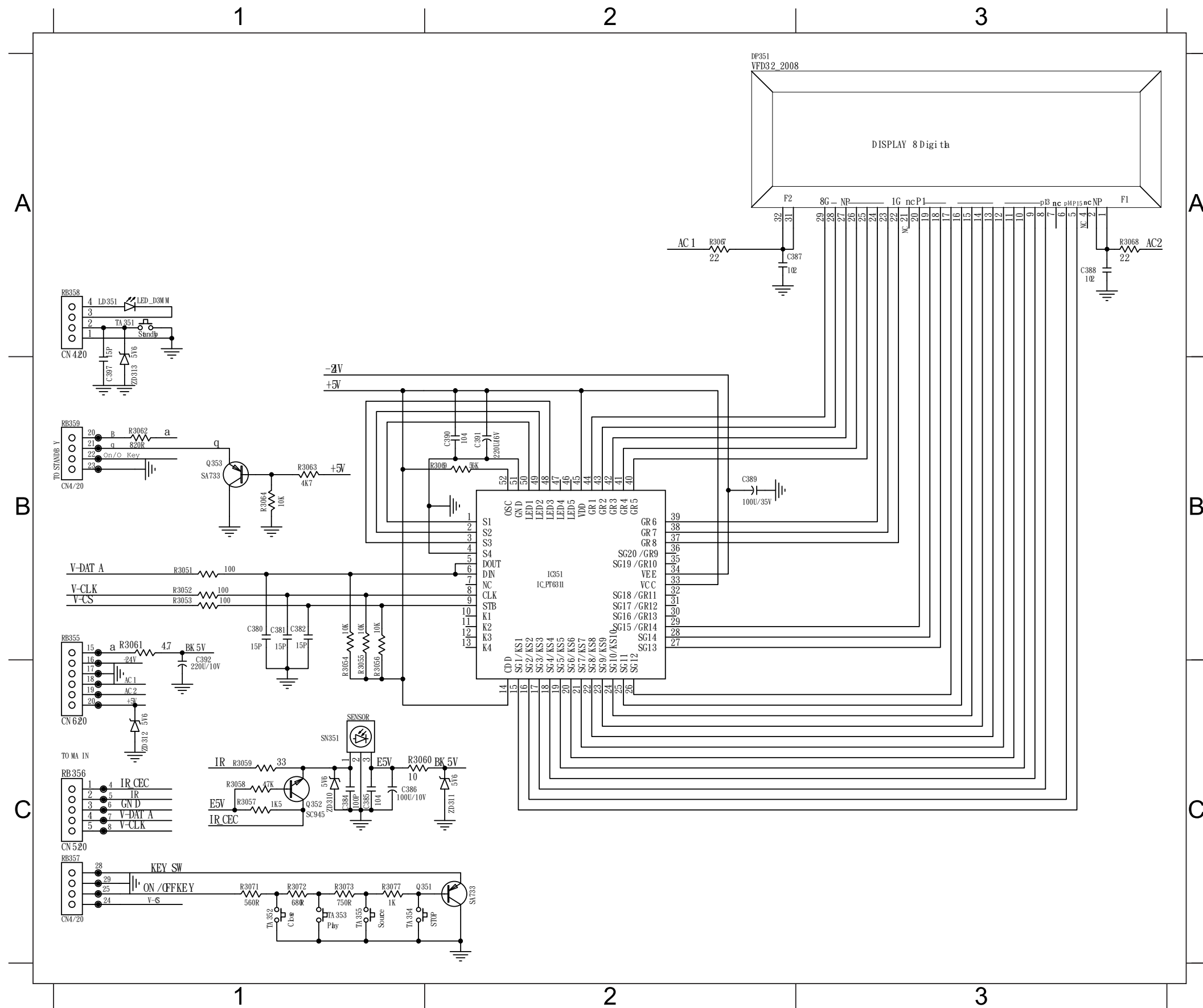
	1G	2G	3G	4G	5G	6G	7G	8G
P1	a	a	a	a	a	a	a	a
P2	j, p	j, p	j, p	j, p	j, p	j, p	j, p	j, p
P3	h	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d	d
P14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

PIN CONNECTION

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

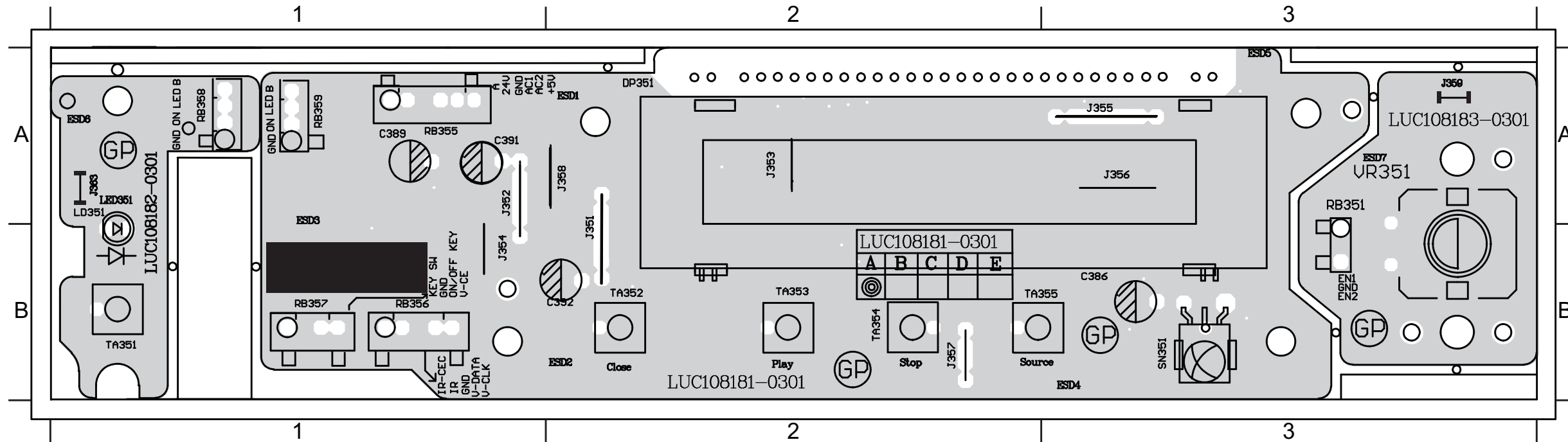
(Notes) : Fn : (Filament Pin) nG : (Grid Pin)
 Pn : (Anode Pin) NP : (No Pin)
 NC : (No connection Pin)

C380 B1 C384 C1 C387 A2 C390 B2 C395 C4 DP351 A2 Q351 C1 R3051 B1 R3054 B1 R3057 C1 R3060 C1 R3063 B1 R3068 A3 R3072 C1 RB351 C4 RB357 C1 TA351 A1 TA354 C1 ZD310 C1 ZD313 B1
 C381 B1 C385 C1 C388 A3 C391 B2 C396 C4 IC351 B2 Q352 C1 R3052 B1 R3055 B1 R3058 C1 R3061 B1 R3064 B1 R3069 B2 R3073 C1 RB355 B1 RB359 B1 TA352 C1 TA355 C1 ZD311 C2
 C382 B1 C386 C1 C389 B2 C392 B1 C397 B1 LD351 A1 Q353 B1 R3053 B1 R3056 B1 R3059 C1 R3062 B1 R3067 A2 R3071 C1 R3077 C1 RB356 C1 SN351 C1 TA353 C1 VR351 C4 ZD312 C1



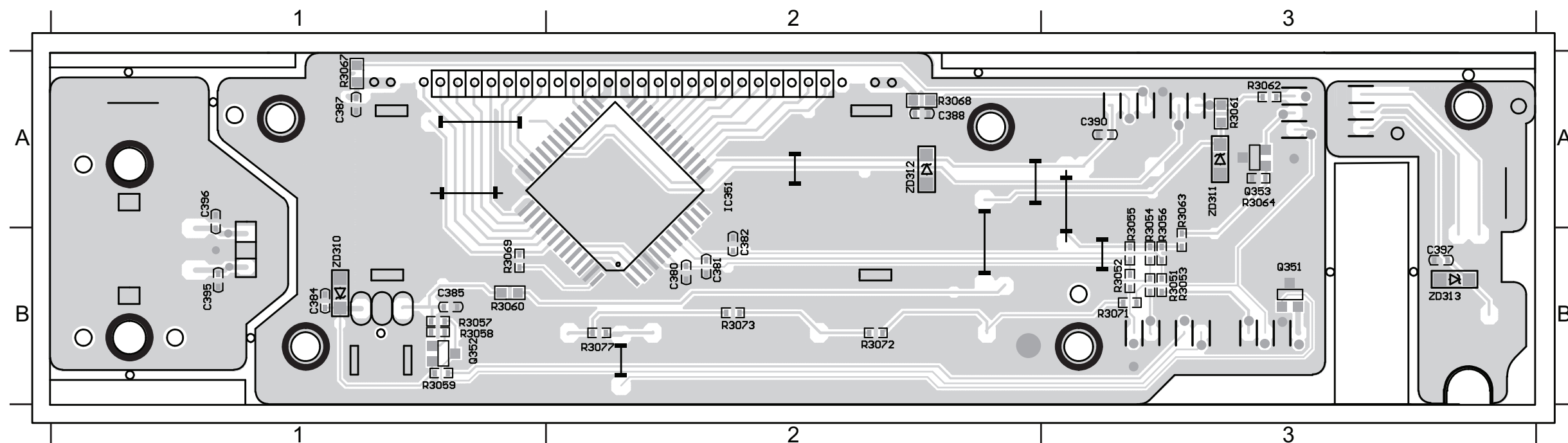
PCB LAYOUT - TOP VIEW

C386 A3 C391 A1 DP351 A2 ESD4 A3 ESD6 A1 J351 A2 J353 A2 J355 A3 J357 B2 J359 A3 LD351 A1 RB355 A1 RB357 B1 SN351 B3 TA352 B2 TA354 B2 VR351 A3
 C389 A1 C392 B2 ESD1 A2 ESD5 B3 ESD7 A3 J352 B1 J354 B1 J356 A3 J358 A2 J363 A1 RB351 A3 RB356 B1 RB359 A1 TA351 B1 TA353 B2 TA355 B2



PCB LAYOUT - BOTTOM VIEW

C380 B2 C382 B2 C387 A1 C390 A3 C396 A1 IC351 A2 Q352 B1 R3051 B3 R3053 B3 R3055 A3 R3057 B1 R3059 B1 R3061 A3 R3063 A3 R3067 A1 R3069 B1 R3072 B2 R3077 B2 ZD311 A3 ZD313 B3
 C381 B2 C385 B1 C388 A2 C395 B1 C397 B3 Q351 B3 Q353 A3 R3052 B3 R3054 A3 R3056 A3 R3058 B1 R3060 B1 R3062 A3 R3064 A3 R3068 A2 R3071 B3 R3073 B2 ZD310 B1 ZD312 A2

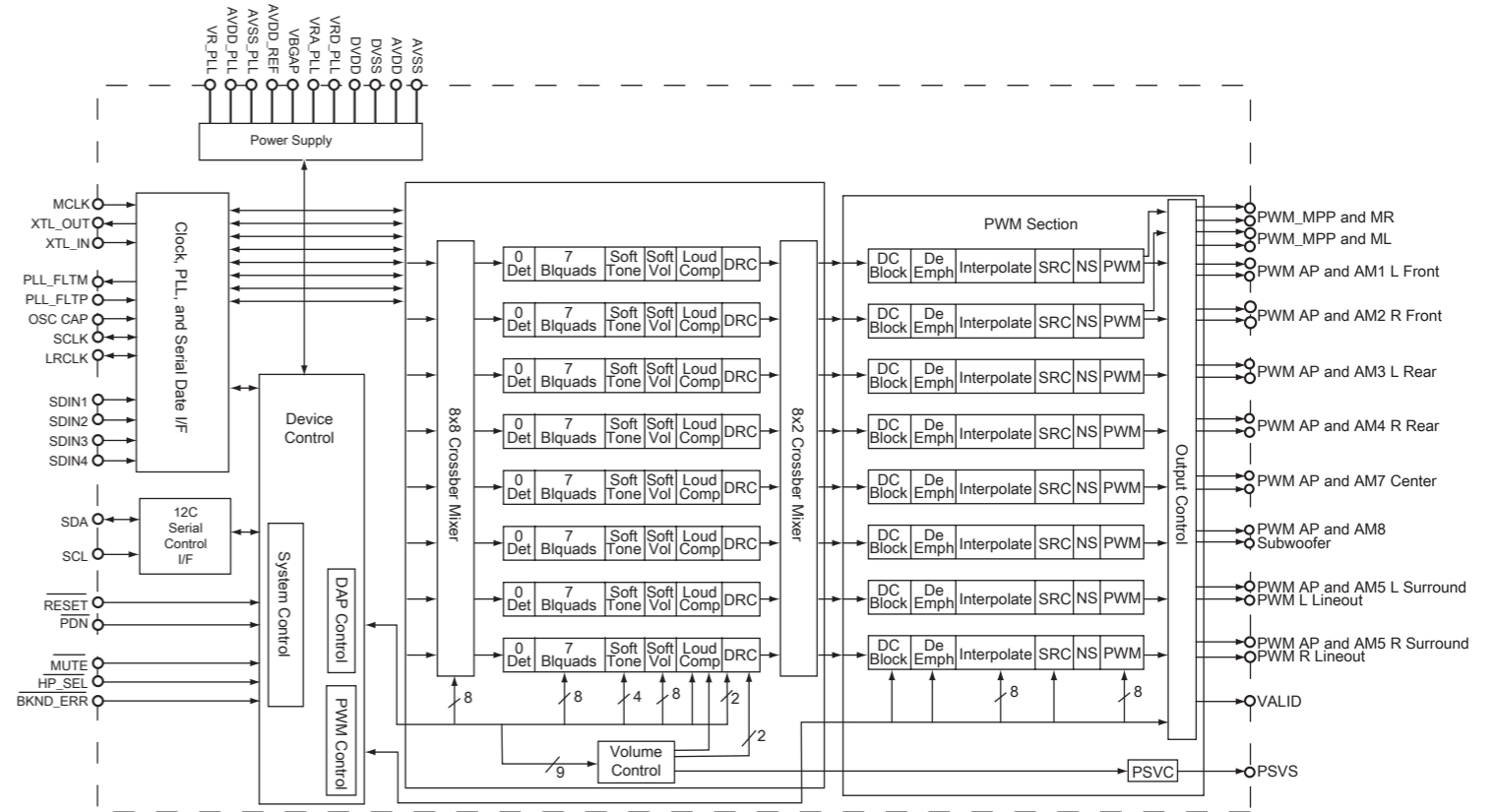


MAIN BOARD

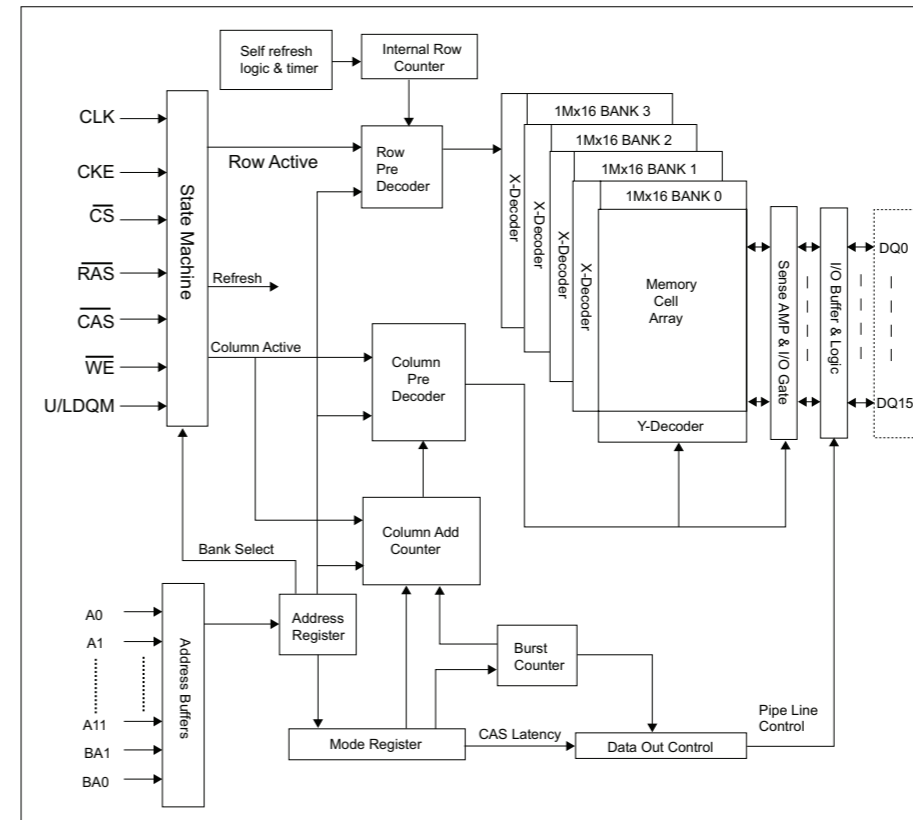
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INTERNAL IC DIAGRAM - TAS5508B

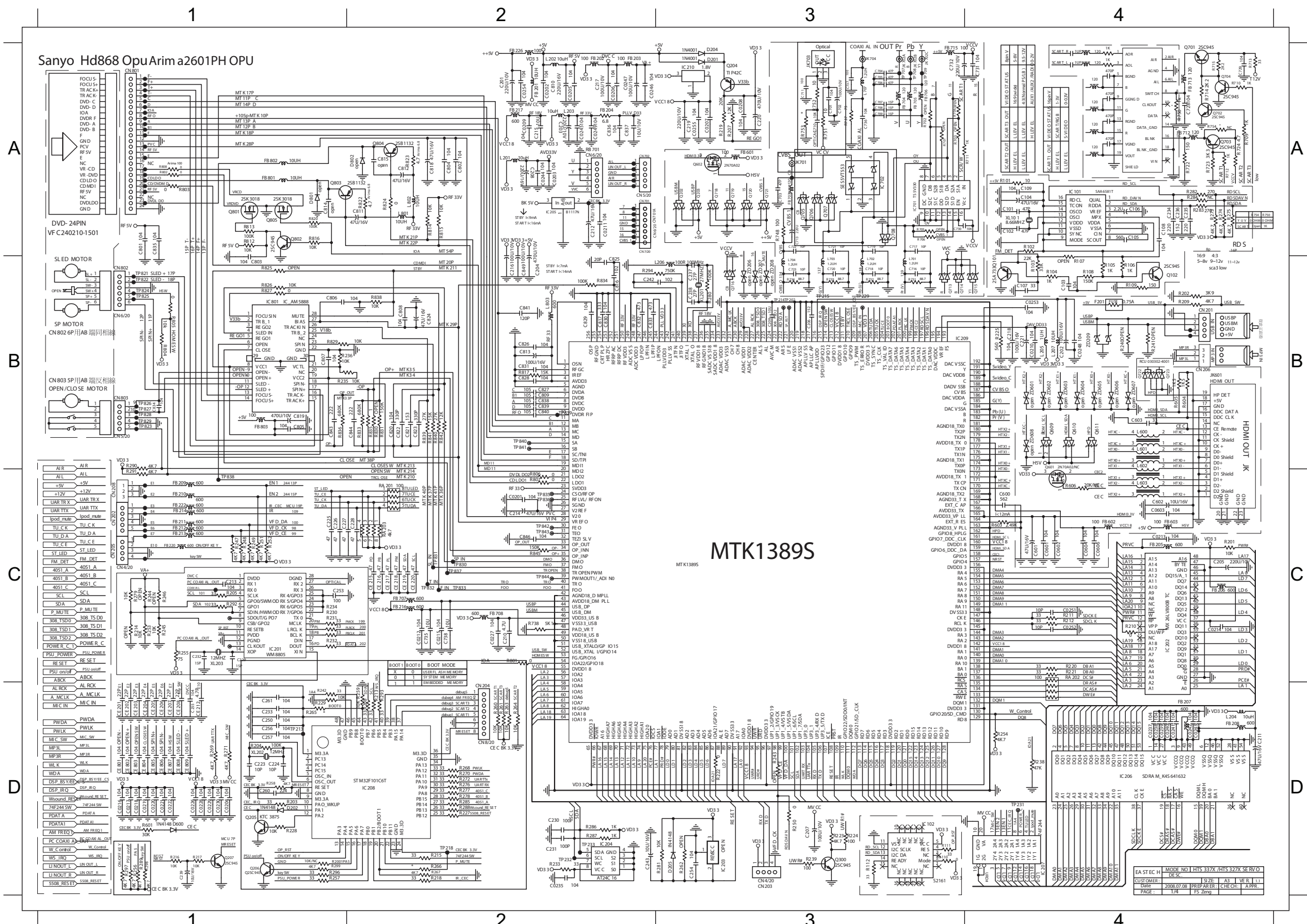


INTERNAL IC DIAGRAM - HY57V641620F



CIRCUIT DIAGRAM - part two

C0201 C2 C0214 C4 C0230 D1 C0248 B4 C104 A4 C208 A2 C223 D1 C236 A4 C261 D1 C718 B3 C737 A3 C812 A2 C827 B2 C840 B2 CE212 D1 CE807 D1 CN802 B1 FB205 C4 FB222 C1 FB803 B1 JK601 B4 L703 B3 Q601 B4 Q803 A1 R203 D1 R218 D2 R232 C1 R252 C1 R270 D2 R282 A4 R297 D1 R714 A4 R752 A3 R816 A1 R836 B1 XL203 C1
C0202 A2 C0215 C2 C0235 D2 C0249 A2 C105 A4 C209 B3 C224 D1 C237 B3 C600 C4 C719 A3 C738 C2 C813 B2 C828 B2 C841 B2 CE215 C2 CE808 D1 CN803 B1 FB206 C4 FB226 A2 IC101 A4 JK701 A3 L704 B3 Q602 A3 Q804 A2 R204 D1 R219 A3 R233 D2 R254 C1 R271 D1 R283 A4 R298 D1 R715 A4 R801 C2 R817 B2 R838 B2 ZD209 B4
C0203 A2 C0216 D1 C0237 D4 C0251 C4 C106 A4 C210 C2 C225 C1 C238 B3 C601 C4 C720 B4 C801 A1 C816 B2 C829 B2 C843 B1 CE216 C2 CE809 D1 CN804 B1 FB207 D4 FB227 A2 IC201 D3 JK703 A3 L707 A3 Q611 B4 Q805 A1 R205 C1 R224 A4 R272 D2 R285 D2 R299 D1 R722 A4 R802 A1 R820 A1 R839 B2
C0204 D1 C0217 D1 C0238 D4 C0252 C4 C107 B4 C211 D4 C226 C1 C239 D1 C602 C4 C721 A3 C802 A2 C817 B2 C830 B2 C844 B2 CE217 C2 CN201 B4 D201 A3 FB208 D4 FB602 C4 IC202 C4 JK704 A3 L801 A2 Q701 A4 R101 A4 R207 A3 R221 C4 R235 B1 R256 D1 R273 A4 R286 D2 R601 D1 R724 A4 R803 A1 R822 A2 R840 B2
C0205 A2 C0218 D1 C0239 D4 C0253 B4 C108 A4 C213 C1 C227 C1 C242 B2 C603 B4 C722 A3 C803 B1 C818 A2 C831 B2 C846 C2 CE218 C2 CN202 C1 D202 D1 FB209 C1 FB603 C4 IC203 D3 L201 A2 L802 A2 Q702 A4 R102 A4 R208 D2 R222 D3 R236 B1 R257 D1 R274 A4 R287 D2 R603 C4 R731 B3 R804 B1 R823 A2 R841 B2
C0206 A2 C0219 D1 C0240 D4 C0601 C4 C109 A4 C214 C2 C228 C2 C243 D2 C701 A3 C723 B3 C804 A2 C819 B1 C832 B2 C849 B2 CE219 C2 CN203 D3 D204 A3 FB210 C1 FB703 C2 IC204 D2 L202 A2 L803 B2 Q703 A4 R103 B4 R209 B4 R223 D3 R238 D4 R258 D1 R274 A4 R288 D2 R604 B4 R732 B3 R805 B1 R824 A2 R842 B2
C0207 A3 C0220 D1 C0241 D4 C0602 C4 C201 A2 C215 A2 C229 C1 C250 D1 C702 A3 C728 A4 C805 B1 C820 B2 C833 B2 CE201 D1 CE220 C2 CN204 D2 D205 D3 FB211 C1 FB707 A3 IC205 A2 L203 A2 Q101 B4 Q704 A4 R104 B4 R210 C4 R224 D3 R239 D3 R259 D2 R275 A4 R289 D1 R605 B4 R733 B3 R806 C2 R826 B1 R845 C2
C0208 A3 C0221 D1 C0242 D4 C0603 C4 C202 B4 C216 B2 C230 D2 C253 C1 C703 A3 C729 A4 C806 B1 C821 B2 C834 B1 CE202 D1 CE801 D1 CN205 C1 D600 D1 FB212 C1 FB708 C2 IC206 D4 L204 D4 Q102 B4 Q705 A3 R105 B4 R211 C4 R225 B4 R242 D1 R260 D2 R276 D2 R290 B1 R606 C4 R734 B3 R807 C2 R827 B1 RA201 C2
C0209 A2 C0222 D1 C0243 D4 C0604 C4 C203 A2 C217 A2 C231 D2 C254 D3 C710 A3 C730 A3 C807 B1 C822 B2 C835 A1 CE203 D1 CE802 D1 CN206 B4 F201 B4 FB213 C1 FB712 A4 IC207 D4 L205 B4 Q204 A3 Q706 A3 R106 B4 R212 C4 R227 D2 R245 C1 R261 D2 R277 D2 R291 C1 R702 A3 R737 A3 R808 A1 R829 B1 RA202 C4
C0210 B4 C0226 D1 C0244 A2 C0606 C4 C204 B2 C218 B4 C232 C1 C255 D1 C711 A3 C731 A4 C808 B2 C823 B2 C836 A2 CE204 D1 CE803 D1 CN208 C1 FB201 A2 FB214 C1 FB713 A4 IC208 D2 L206 B3 Q205 D1 Q707 A3 R108 B4 R213 D2 R228 D1 R248 C1 R263 D2 R278 D2 R292 C1 R704 A3 R738 C2 R812 A1 R831 B2 RA203 C2
C0211 A2 C0227 C2 C0245 A2 C101 A4 C205 C4 C219 A3 C233 D1 C256 D1 C713 A3 C732 A3 C809 B2 C824 B2 C837 A2 CE205 D1 CE804 D1 CN201 A3 FB202 A2 FB216 C2 FB715 A3 IC209 B3 L207 B4 Q206 D1 Q708 A3 R109 B4 R215 D2 R229 D1 R249 C1 R267 D2 R279 C1 R293 D2 R705 A3 R748 A3 R813 A1 R833 B2 XL101 A4
C0212 C2 C0228 D1 C0246 A2 C102 A4 C206 B3 C220 A3 C234 A4 C257 D1 C716 B3 C735 C2 C810 A2 C825 A2 C838 B2 CE206 D1 CE805 D1 CN702 A2 FB203 A2 FB217 A2 FB801 A1 IC210 A3 L701 B3 Q207 D1 Q801 A1 R201 C4 R216 D1 R230 C1 R250 D3 R268 D2 R280 B3 R294 B2 R712 A4 R750 A4 R814 A2 R834 B2 XL201 B3
C0213 C4 C0229 D1 C0247 A2 C103 B4 C207 D3 C221 B4 C235 A4 C260 D1 C717 A3 C736 A3 C811 A2 C826 B2 C839 B2 CE207 D1 CE806 D1 CN801 A1 FB204 A2 FB220 A1 FB802 A1 IC801 B1 L702 B3 Q300 D3 Q802 A1 R202 B4 R217 D1 R231 C1 R251 C1 R269 D1 R281 D3 R296 D1 R713 A4 R751 A3 R815 A2 R835 B2 XL202 D1

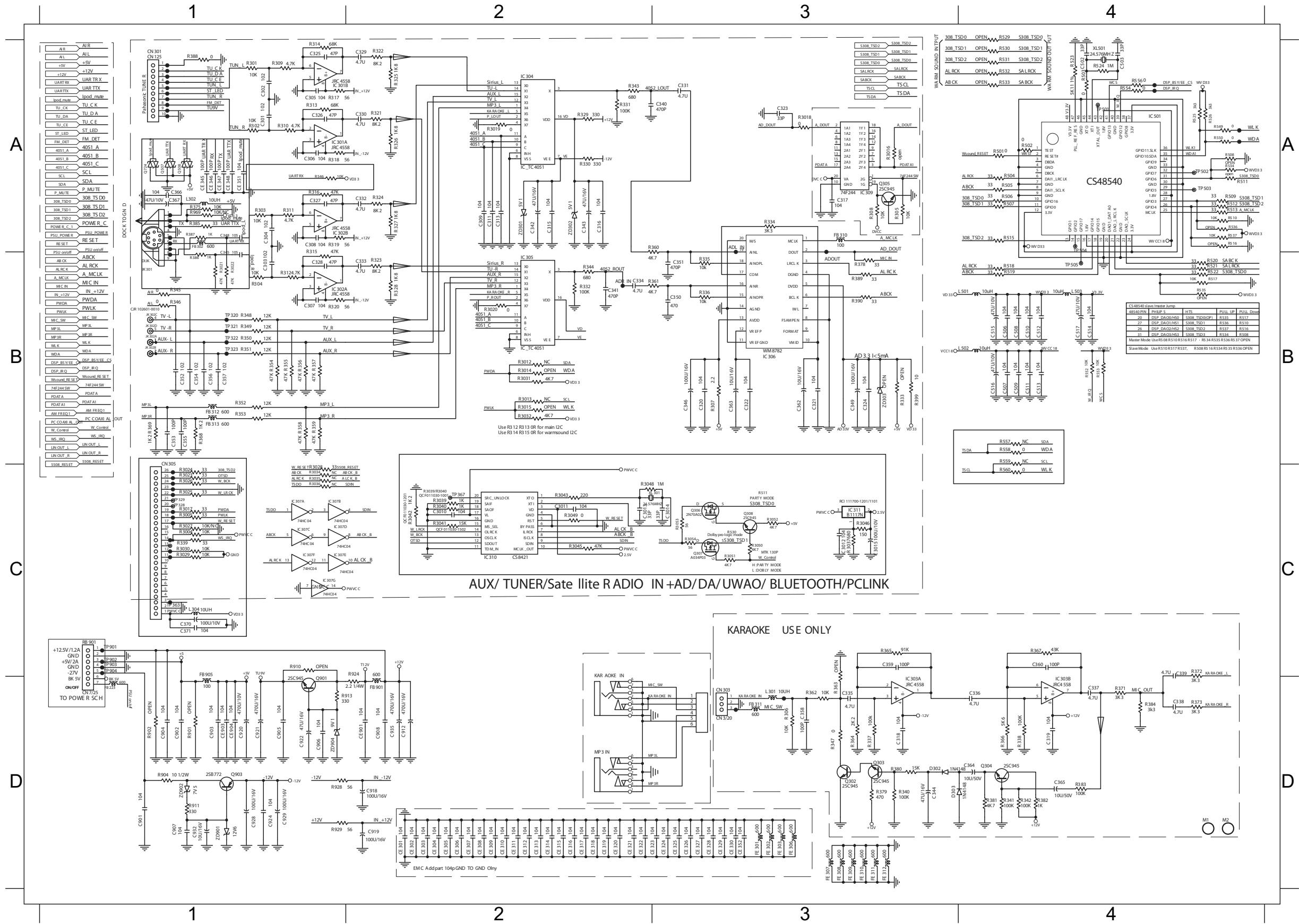


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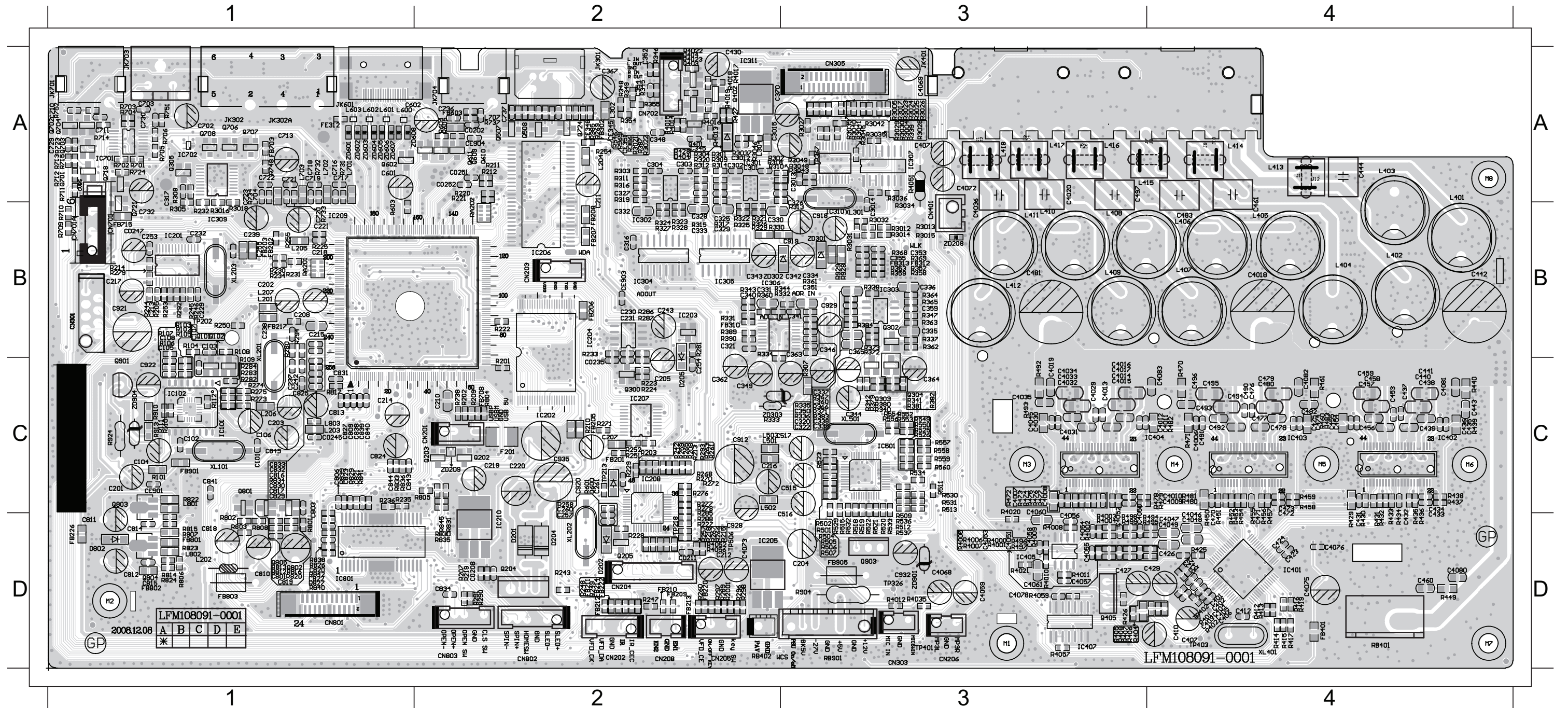
CIRCUIT DIAGRAM - part three

C301 A1	C317 A3	C326 A1	C346 B3	C357 B1	C511 B4	C903 D1	C920 D1	CE302 D2	CE311 D2	CE320 D2	CE329 D3	FB312 B1	FE309 D3	JK302A B1	R3019 A2	R314 A1	R328 B2	R344 B2	R354 B1	R369 B1	R530 A4	R710 A4	ZD301 A2
C302 A1	C318 D3	C329 A2	C349 B3	C360 C4	C512 B4	C904 D1	C921 D1	CE303 D2	CE312 D2	CE321 D2	CE330 D3	FB313 B1	FE310 D3	L501 B4	R302 A1	R316 A1	R329 A2	R345 B1	R355 B1	R378 B3	R531 A4	R711 A3	ZD302 A2
C305 A1	C319 D4	C330 A2	C350 B3	C362 B3	C513 B4	C905 D1	C922 D1	CE304 D2	CE313 D2	CE322 D2	CE352 D3	FB901 D1	FE311 D3	L502 B4	R3020 B2	R317 A1	R330 A2	R346 B1	R356 B1	R380 D3	R532 A4	R904 D1	ZD901 D1
C306 A1	C320 B3	C331 A3	C351 B3	C363 B3	C514 B4	C906 D1	C924 D1	CE305 D2	CE314 D2	CE323 D2	CE901 D2	FB905 C1	FE312 D3	L503 B4	R305 A3	R318 A1	R331 A3	R348 B1	R357 B1	R388 A1	R533 A4	R911 D1	ZD902 D1
C309 A2	C321 B3	C334 B2	C352 B1	C366 B4	C515 B4	C907 D1	C928 D1	CE306 D2	CE315 D2	CE324 D3	CE903 D1	FE301 D3	IC301 A1	Q305 A3	R307 B3	R321 A2	R332 B2	R349 B1	R358 B1	R389 B3	R552 B4	R913 D1	ZD904 D1
C311 A2	C322 B3	C340 A3	C353 B1	C507 B4	C516 B4	C908 D2	C929 D1	CE307 D2	CE316 D2	CE325 D3	CE904 D1	FE302 D3	IC304 A2	Q901 D1	R308 A3	R322 A2	R334 A3	R350 B1	R359 B1	R390 B3	R553 B4	R924 C2	
C313 A2	C323 A3	C341 B2	C354 B1	C508 B4	C517 B4	C912 D2	C932 D1	CE308 D2	CE317 D2	CE326 D3	CN301 A1	FE306 D3	IC305 B2	Q903 D1	R309 A1	R325 A2	R335 B3	R351 B1	R360 A2	R399 B3	R558 B4	R928 D1	
C315 A2	C324 B3	C342 A2	C355 B1	C509 B4	C901 D1	C918 D2	C935 D2	CE309 D2	CE318 D2	CE327 D3	FB223 D1	FE307 D3	IC306 B3	R301 A1	R310 A1	R326 A2	R336 B3	R352 B1	R361 B3	R523 A4	R560 C4	R929 D1	
C316 A2	C325 A1	C343 A2	C356 B1	C510 B4	C902 D1	C919 D2	CE301 D2	CE310 D2	CE319 D2	CE328 D3	FB310 A3	FE308 D3	IC309 A3	R3018 A3	R313 A1	R327 A2	R343 A2	R353 B1	R368 B1	R529 A4	R709 A4	RB901 C1	



PCB LAYOUT - TOP VIEW

C317	A1	JK701	A1	R711	A1	C736	A2	R254	A2	R4018	A2	L416	A3	C218	B1	L201	B1	R292	B1	C331	B2	R286	B2	C342	B3	R352	B3	R722	B4	C825	C1	L501	C1	R834	C1	C912	C2	R209	C2	R601	C2	IC404	C3	C4006	C4	C470	C4	R433	C4	R471	C4	IC801	D1	R826	D1	FB209	D2	R257	D2	C4051	D3	IC407	D3	R405	D3	C4046	D4	R412	D4
C601	A1	JK703	A1	R712	A1	C737	A2	R269	A2	R4019	A2	L417	A3	C221	B1	L205	B1	R294	B1	C340	B2	R287	B2	C346	B3	R353	B3	C0245	C1	C827	C1	L801	C1	R836	C1	C920	C2	R210	C2	R738	C2	R268	C3	C4009	C4	C471	C4	R434	C4	R478	C4	L202	D1	R827	D1	FB210	D2	R260	D2	C4052	D3	Q405	D3	R406	D3	C4047	D4	R414	D4
C602	A1	L701	A1	R714	A1	CE904	A2	R301	A2	R4022	A2	L418	A3	C229	B1	L207	B1	R3018	B1	C343	B2	R317	B2	C351	B3	R358	B3	C101	C1	C829	C1	L803	C1	R839	C1	C935	C2	R213	C2	R804	C2	R307	C3	C4010	C4	C472	C4	R435	C4	R479	C4	L802	D1	R838	D1	FB211	D2	R267	D2	C4053	D3	Q903	D3	R407	D3	C4048	D4	R414	D4
C702	A1	L702	A1	R724	A1	CN702	A2	R302	A2	R4023	A2	R4051	A3	C232	B1	Q101	B1	R305	B1	CE903	B2	R321	B2	C353	B3	R359	B3	C102	C1	C830	C1	Q801	C1	R841	C1	CN201	C2	R223	C2	R805	C2	R335	C3	C4011	C4	C473	C4	R436	C4	R480	C4	Q802	D1	R840	D1	FB212	D2	R285	D2	C4054	D3	R4000	D3	R408	D3	C4049	D4	R415	D4
C703	A1	L703	A1	R731	A1	D404	A2	R309	A2	R427	A2	C444	A4	C238	B1	Q102	B1	R709	B1	CN203	B2	R322	B2	C355	B3	R361	B3	C104	C1	C831	C1	R913	C1	D205	C2	R224	C2	ZD209	C2	R336	C3	C4012	C4	C474	C4	R437	C4	R481	C4	Q804	D1	R842	D1	FB213	D2	R288	D2	C4055	D3	R4001	D3	R494	D3	C405	D4	R416	D4		
C710	A1	L704	A1	R732	A1	FB603	A2	R310	A2	R428	A2	L401	A4	C239	B1	R102	B1	R710	B1	FB206	B2	R325	B2	C363	B3	R368	B3	C106	C1	C832	C1	Q901	C1	R924	C1	D600	C2	R229	C2	C320	C3	R380	C3	C4081	C4	C475	C4	R438	C4	R482	C4	Q805	D1	CO208	D2	FB214	D2	R289	D2	C4056	D3	R4002	D3	R495	D3	C406	D4	R417	D4
C711	A1	Q305	A1	R734	A1	IC301	A2	R314	A2	R604	A2	L403	A4	C253	B1	R103	B1	R713	B1	FB207	B2	R326	B2	C481	B3	R369	B3	C201	C1	C833	C1	R101	C1	XL101	C1	F201	C2	R242	C2	C322	C3	R472	C3	C431	C4	C476	C4	R439	C4	R483	C4	R801	D1	CO211	D2	FB220	D2	R290	D2	C4057	D3	R4003	D3	R496	D3	C407	D4	R419	D4
C713	A1	Q602	A1	R748	A1	JK302A	A2	R316	A2	R605	A2	L413	A4	C255	B1	R104	B1	R715	B1	FB208	B2	R327	B2	C918	B3	R928	B3	C203	C1	C838	C1	R109	C1	ZD904	C1	FB201	C2	R251	C2	C350	C3	R474	C3	C432	C4	C477	C4	R440	C4	C801	D1	R802	D1	C257	D2	FB222	D2	R291	D2	C4058	D3	R4004	D3	R497	D3	C4075	D4	R423	D4
C716	A1	Q701	A1	R751	A1	JK704	A2	R318	A2	R737	A2	L414	A4	C720	B1	R105	B1	R733	B1	FB310	B2	R328	B2	C919	B3	R929	B3	C214	C1	C839	C1	R235	C1	CO235	C2	FB205	C2	R252	C2	C360	C3	R475	C3	C434	C4	C478	C4	R450	C4	C810	D1	R803	D1	C4073	D2	IC205	D2	R296	D2	C4059	D3	R4005	D3	R498	D3	C4076	D4	R424	D4
C717	A1	Q702	A1	R752	A1	L204	A2	R345	A2	RA202	A2	Q705	A4	C732	B1	R106	B1	RA201	B1	IC203	B2	R329	B2	C929	B3	ZD301	B3	C237	C1	C840	C1	R236	C1	CO25	C2	FB708	C2	R258	C2	C4007	C3	R476	C3	C435	C4	C482	C4	R452	C4	C811	D1	R806	D1	C834	D2	IC210	D2	R297	D2	C4060	D3	R4006	D3	R499	D3	C4080	D4	R425	D4
C718	A1	Q703	A1	CO202	A2	L707	A2	R346	A2	C4020	A3	CO247	B1	C921	B1	R108	B1	XL201	B1	IC204	B2	R330	B2	FB312	B3	C4014	B4	C242	C1	C841	C1	R273	C1	C207	C2	IC202	C2	R259	C2	C4008	C3	R477	C3	C436	C4	C490	C4	R453	C4	C812	D1	R807	D1	C928	D2	Q204	D2	R298	D2	C4061	D3	R4007	D3	R529	D3	C410	D4	R426	D4
C719	A1	Q704	A1	CO251	A2	Q401	A2	R348	A2	C4036	A3	C103	B1	CN301	B1	R205	B1	XL203	B1	IC206	B2	R331	B2	FB313	B3	C4015	B4	C803	C1	C843	C1	R274	C1	C210	C2	IC207	C2	R261	C2	C4013	C3	R492	C3	C437	C4	C491	C4	R454	C4	C818	D1	R808	D1	CN202	D2	Q205	D2	R4052	D2	C4068	D3	R4008	D3	R532	D3	C412	D4	R449	D4
C721	A1	Q707	A1	CO252	A2	Q402	A2	R349	A2	C4069	A3	C105	B1	CN701	B1	R225	B1	C230	B2	IC304	B2	R334	B2	L408	B3	C4018	B4	C806	C1	C844	C1	R274	C1	C216	C2	IC208	C2	R263	C2	C4029	C3	R493	C3	C438	C4	C492	C4	R455	C4	C819	D1	R812	D1	CN204	D2	R207	D2	R4056	D2	C4078	D3	R4009	D3	R533	D3	C423	D4	RB401	D4
C722	A1	Q707	A1	C211	A2	Q403	A2	R354	A2	C4071	A3	C107	B1	FB202	B1	R231	B1	C231	B2	IC305	B2	R343	B2	L409	B3	C442	B4	C809	C1	C849	C1	R275	C1	C219	C2	L502	C2	R270	C2	C4030	C3	R523	C3	C439	C4	C493	C4	R456	C4	C820	D1	R813	D1	CN205	D2	R215	D2	R831	D2	C427	D3	R4010	D3	R904	D3	C424	D4	XL401	D4
C723	A1	Q708	A1	C301	A2	Q404	A2	R355	A2	C4072	A3	C108	B1	FB203	B1	R232	B1	C243	B2	IC306	B2	R360	B2	L410	B3	C483	B4	C813	C1	C922	C1	R282	C1	C220	C2	L503	C2	R271	C2	C4031	C3	R530	C3	C443	C4	C496	C4	R457	C4	C822	D1	R814	D1	CN208	D2	R218	D2	R835	D2	C429	D3	R4011	D3	RB901	D3	C433	D4		
C729	A1	R308	A1	C302	A2	Q611	A2	R4013	A2	C461	A3	C202	B1	FB217	B1	R245	B1	C316	B2	R222	B2	R389	B2	L411	B3	L402	B4	C816	C1	CE901	C1	R283	C1	C254	C2	Q300	C2	R272	C2	C4032	C3	R531	C3	C453	C4	IC402	C4	R458	C4	CN801	D1	R815	D1	CN802	D2	R219	D2	R845	D2	C516	D3	R4012	D3	ZD901	D3	C460	D4		
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JK601	A1	R705	A1	C430	A2	R221	A2	R4017	A2	L415	A3	C217	B1	IC309	B1	R280	B1	C330	B2	R281	B2	C341	B3	R344	B3	L407	B4	C824	C1	L206	C1	R833	C1	C362	C2	R208	C2	R293	C2	C517	C3	R560	C3	C457	C4	R432	C4	R470	C4	FB803	D1	R824	D1	D204	D2	R249	D2	C4050	D3	IC405	D3	R404	D3	C404	D4	R402	D4		

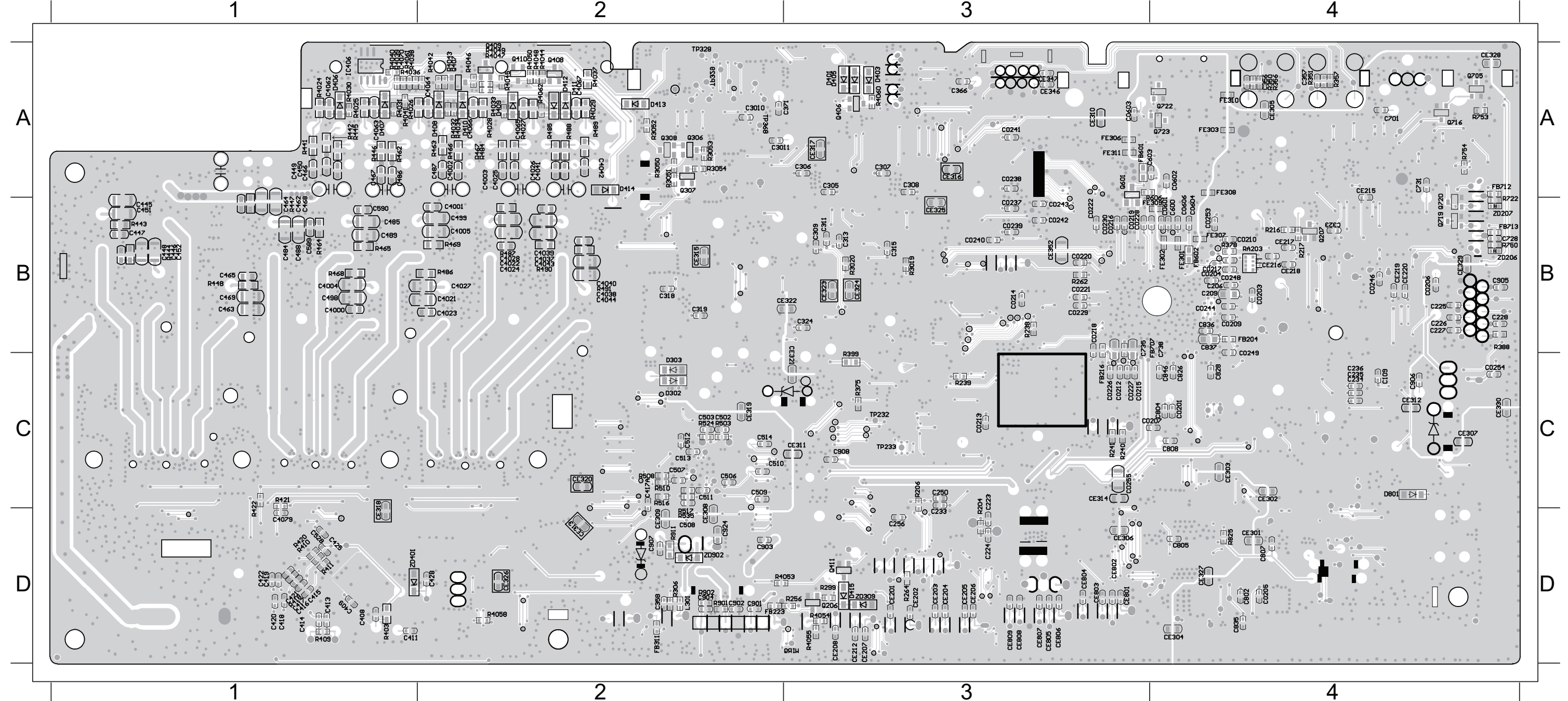


PCB LAYOUT - BOTTOM VIEW

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6 - 6

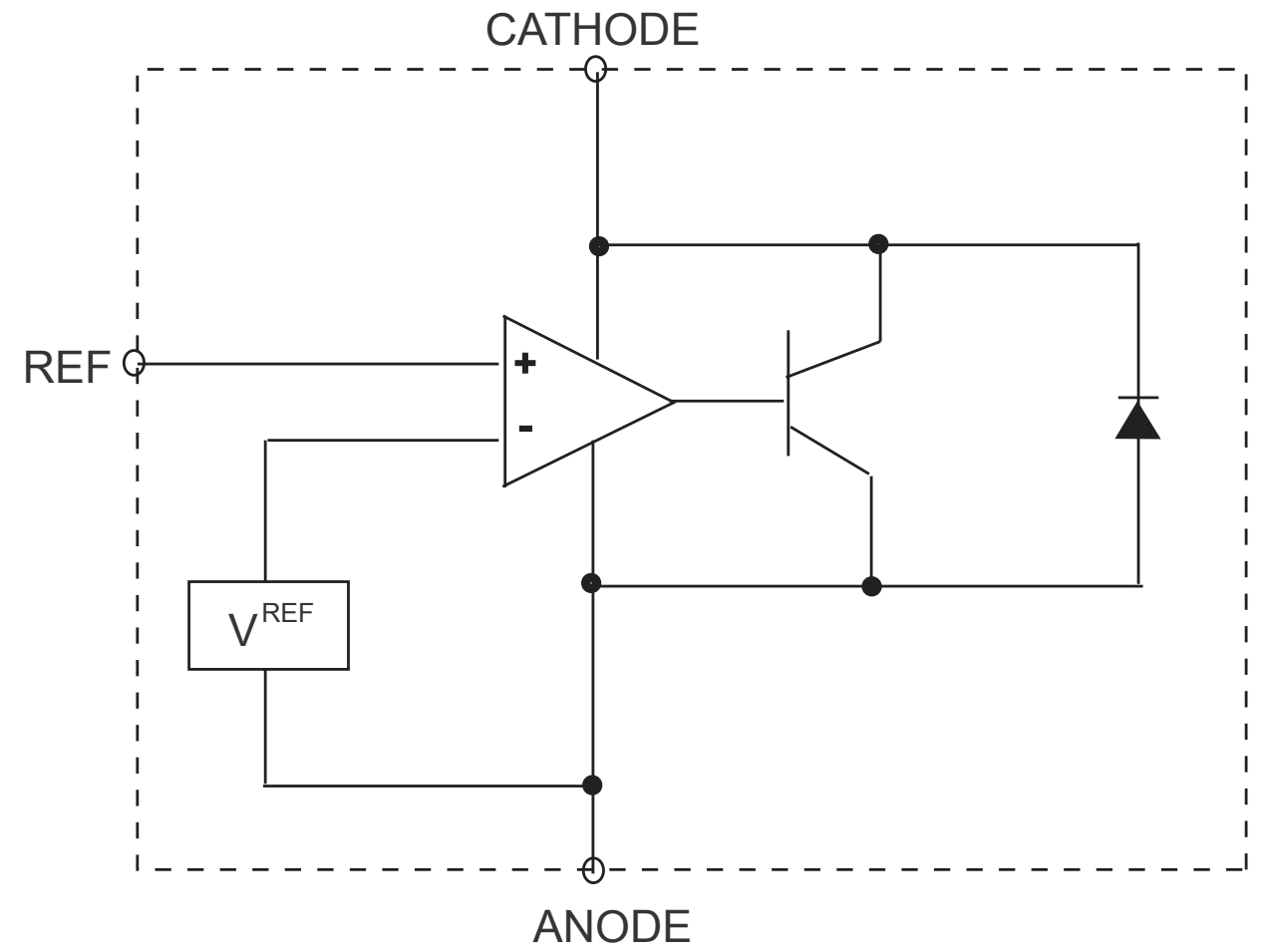
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C4062 A1	R4031 A1	C4026 A2	Q407 A2	R4046 A2	C305 A3	C356 A4	C4004 B1	C488 B1	C4005 B2	R469 B2	C0237 B3	CE324 B3	C0248 B4	C738 B4	FE302 B4	C507 C2	C0226 C3	C804 C4	C414 D1	R420 D1	R911 D2	CE802 D3	C0205 D4
C4063 A1	R4036 A1	C4041 A2	Q408 A2	R4047 A2	C306 A3	C357 A4	C445 B1	C489 B1	C4021 B2	R486 B2	C0238 B3	CE325 B3	C0249 B4	C836 B4	FE307 B4	C509 C2	C0227 C3	C808 C4	C415 D1	ZD401 D1	ZD902 D2	CE803 D3	C802 D4
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POWER BOARD

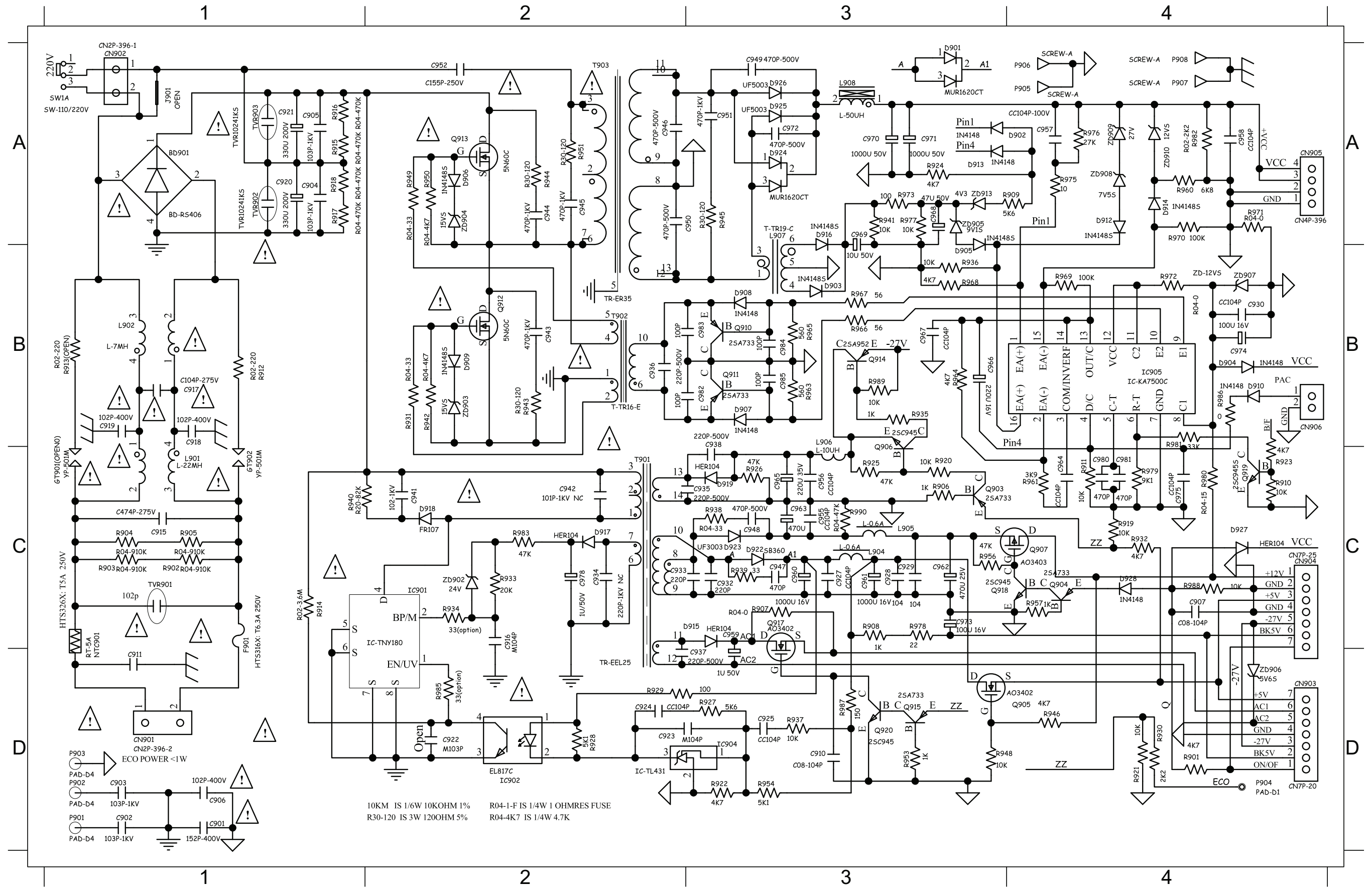
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CIRCUIT DIAGRAM

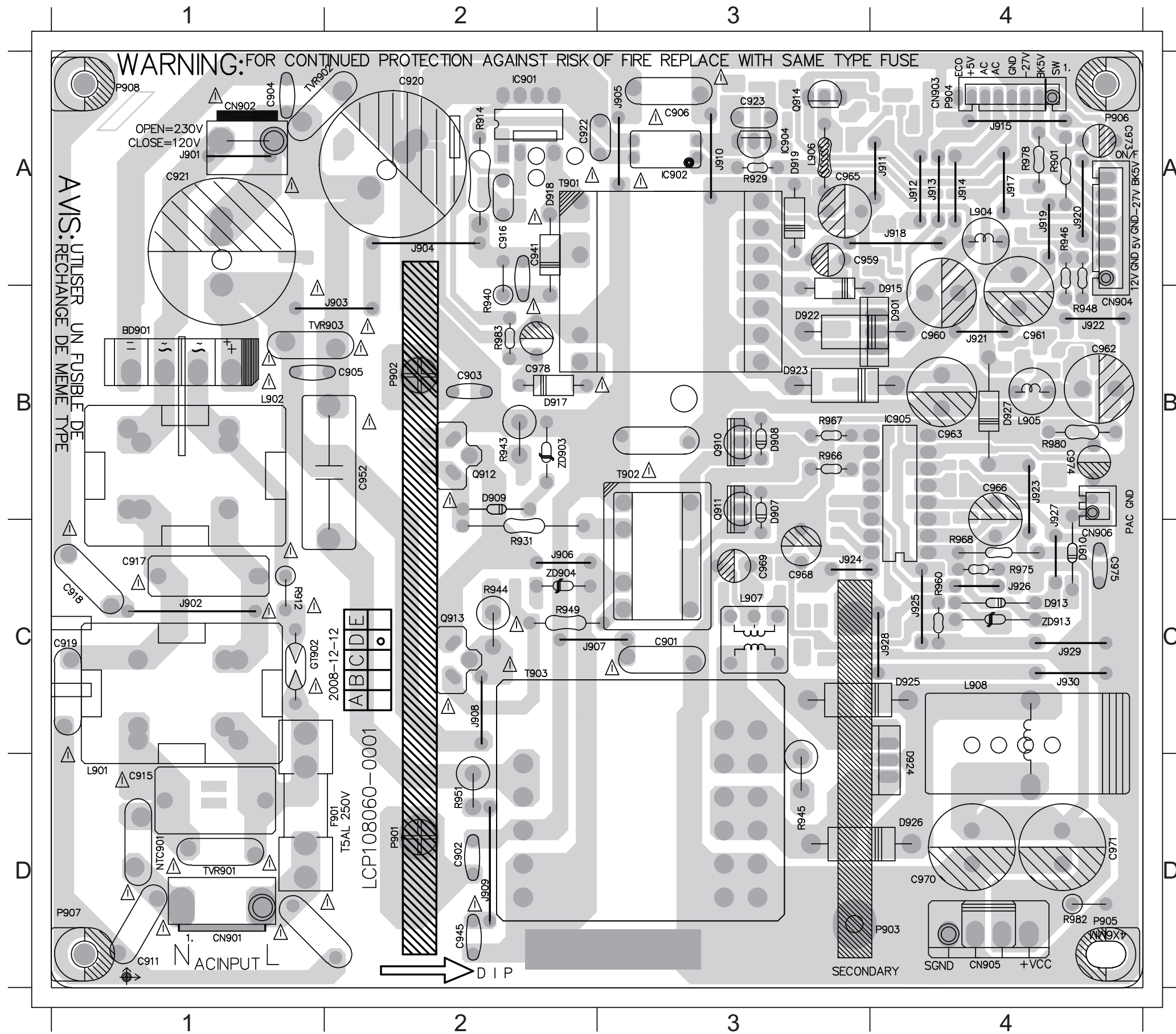
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10KM IS 1/6W 10KOHM 1% R04-1-F IS 1/4W 1 OHMRES FUSE
 R30-120 IS 3W 120OHM 5% R04-4K7 IS 1/4W 4.7K

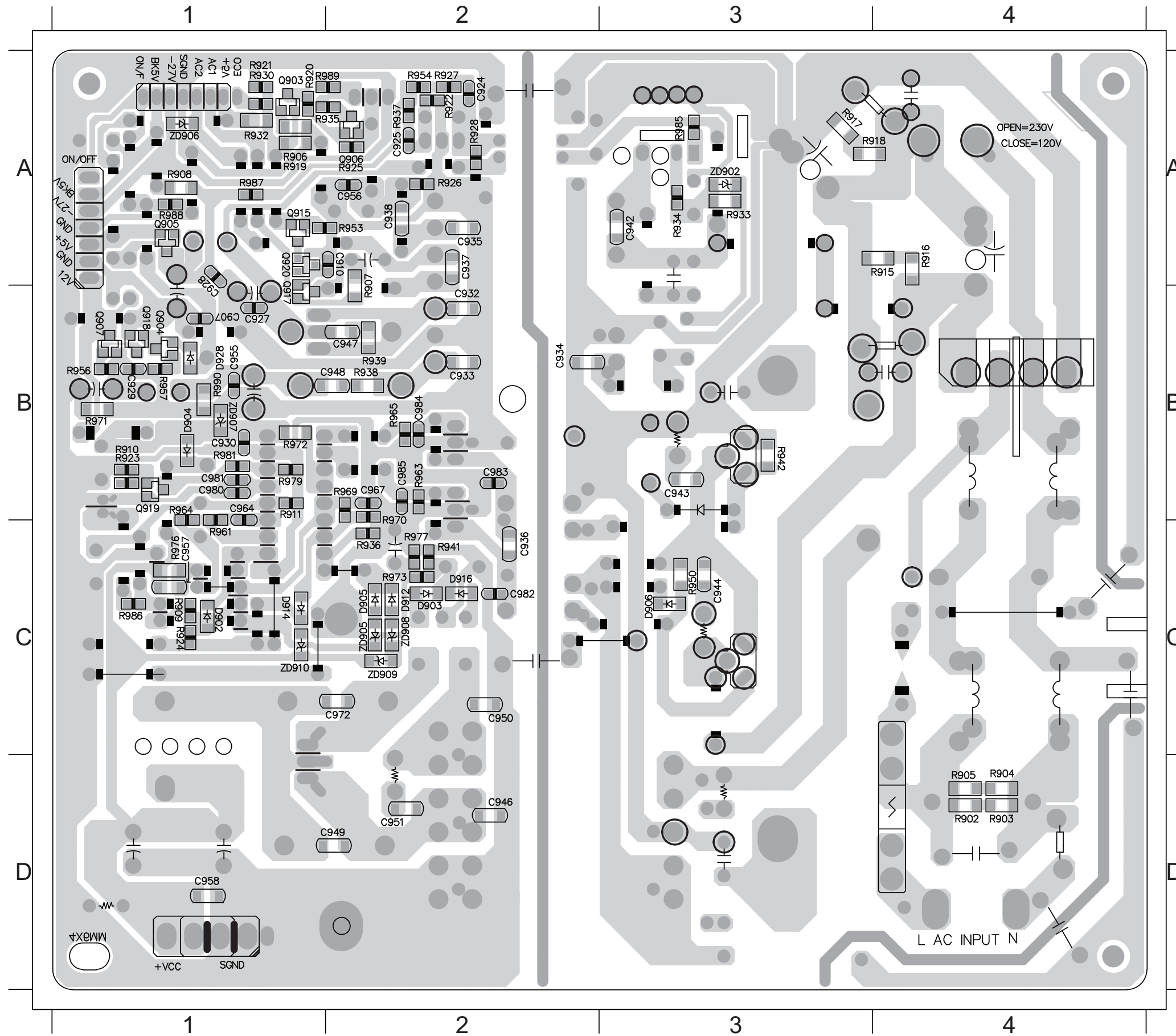
PCB LAYOUT - TOP VIEW

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PCB LAYOUT - BOTTOM VIEW

C907 B1 C928 A1 C938 A2 C947 B2 C955 B1 C967 B2 C983 B2 D904 B1 D928 B1 Q907 B1 R905 D4 R911 B1 R919 A1 R926 A2 R934 A3 R939 B2 R956 B1 R965 B2 R973 C2 R986 C1 ZD907 B1
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 C927 B1 C936 C2 C946 D2 C951 D2 C964 B1 C982 C2 D903 C2 D916 C2 Q906 A2 R904 D4 R909 C1 R918 A3 R925 A2 R933 A3 R938 B2 R954 A2 R964 B1 R972 B1 R985 A3 ZD906 A1



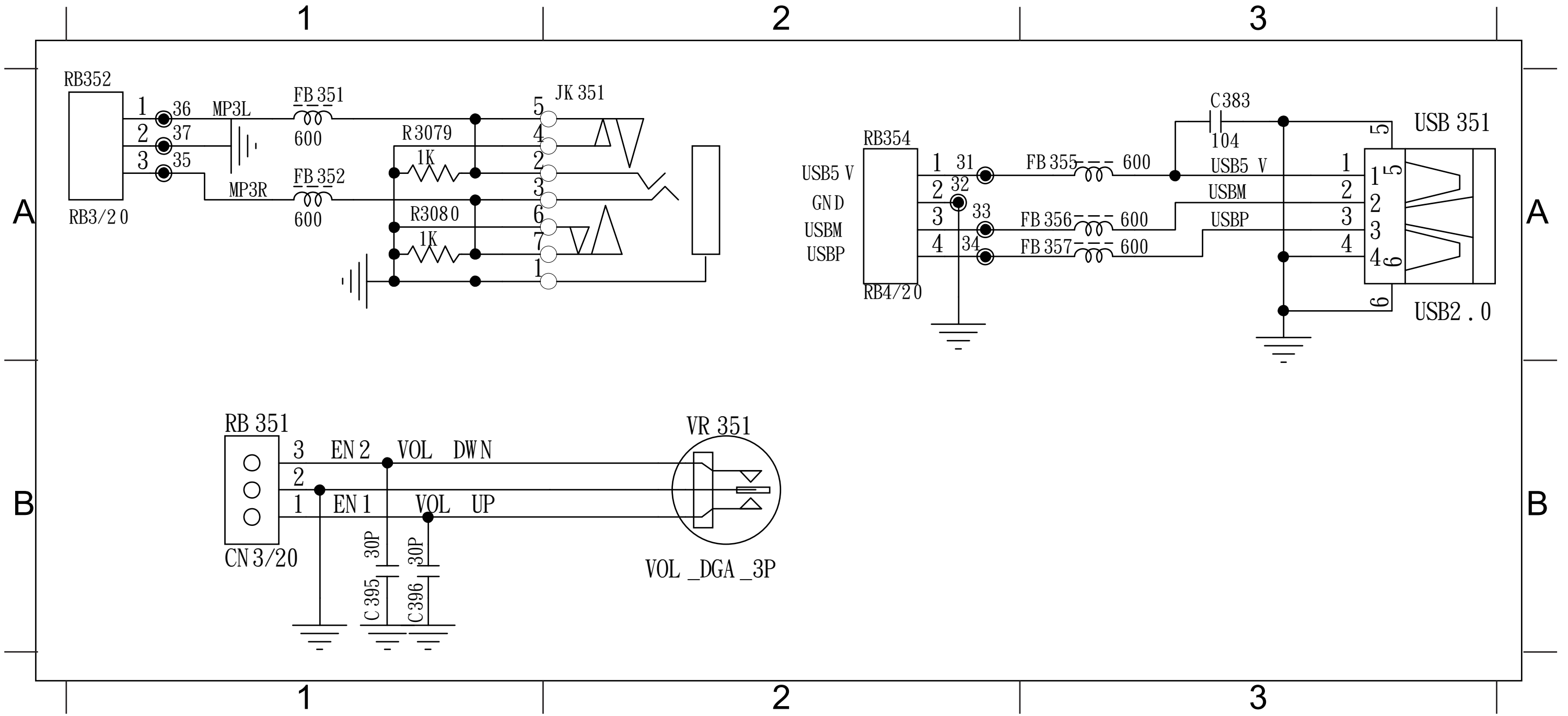
MP3 IN BOARD

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CIRCUIT DIAGRAM

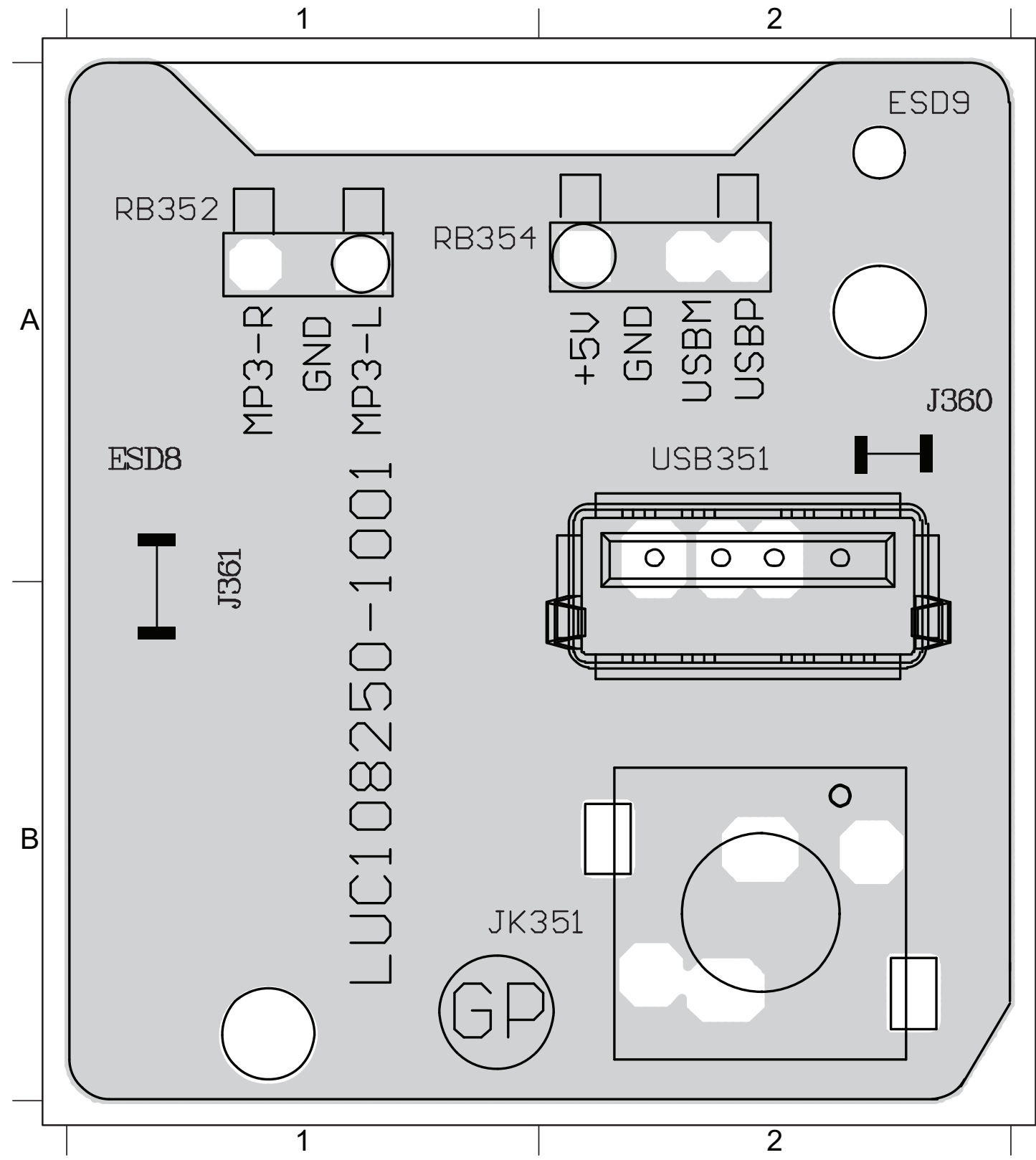
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PCB LAYOUT - TOP VIEW

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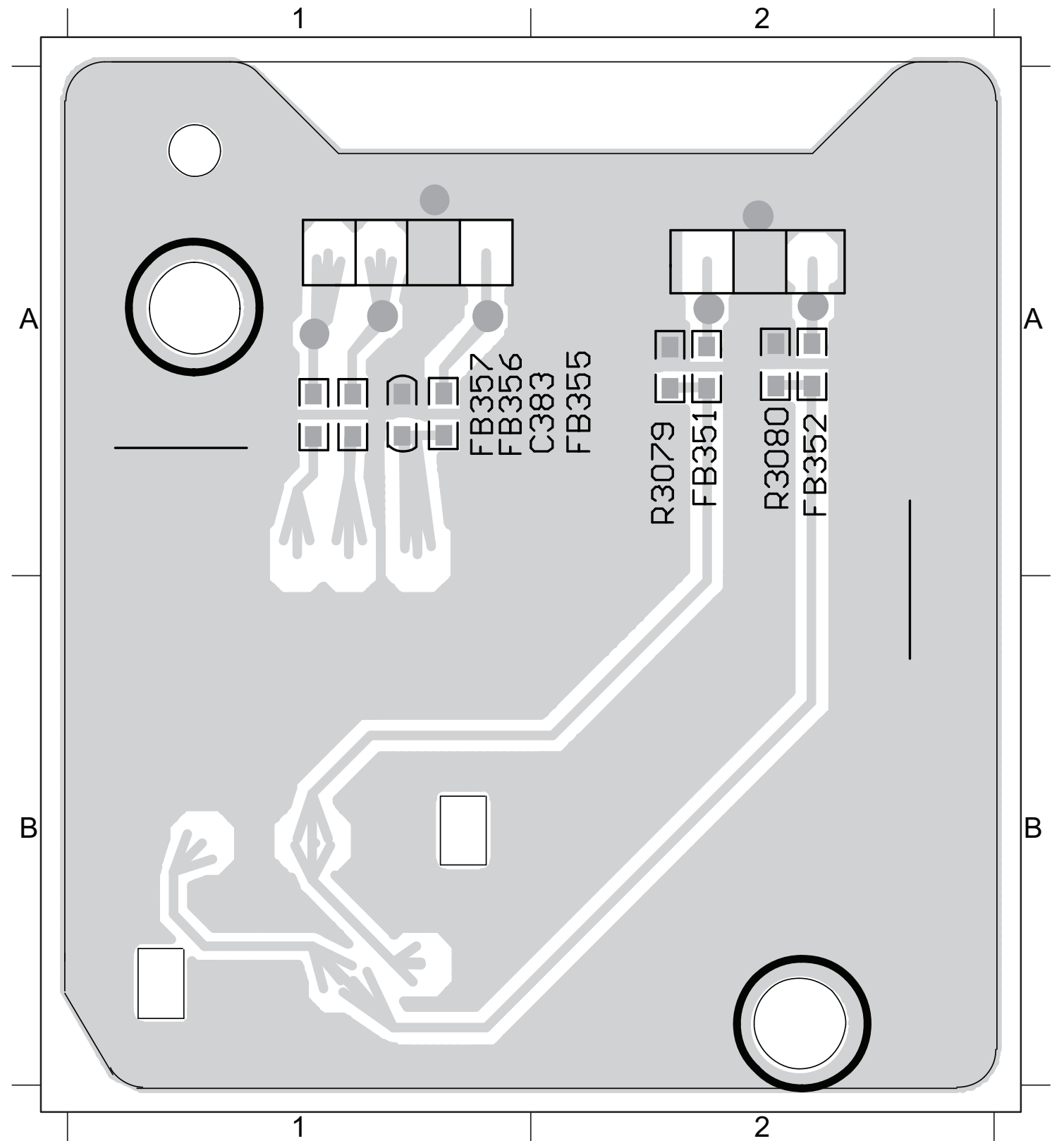
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PCB LAYOUT - BOTTOM VIEW

8-3

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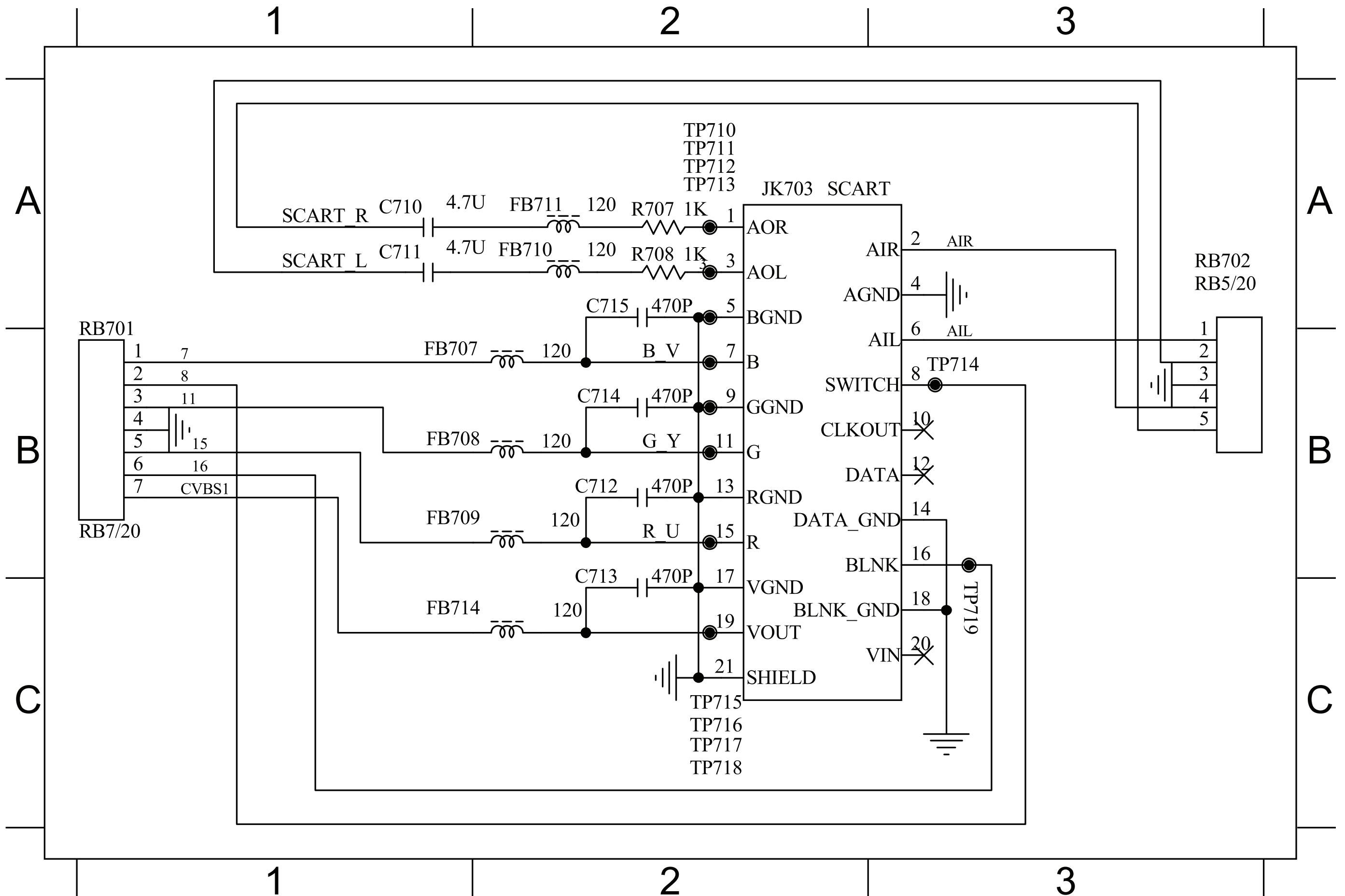
SCART BOARD

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CIRCUIT DIAGRAM

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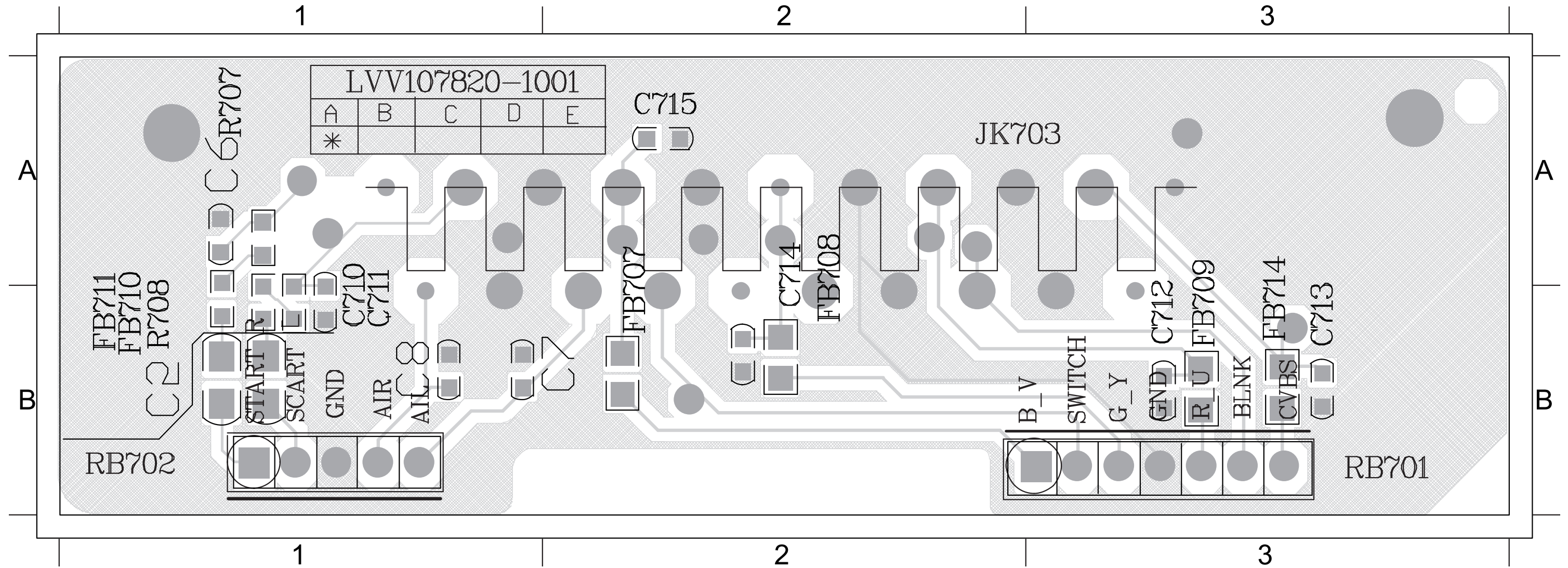


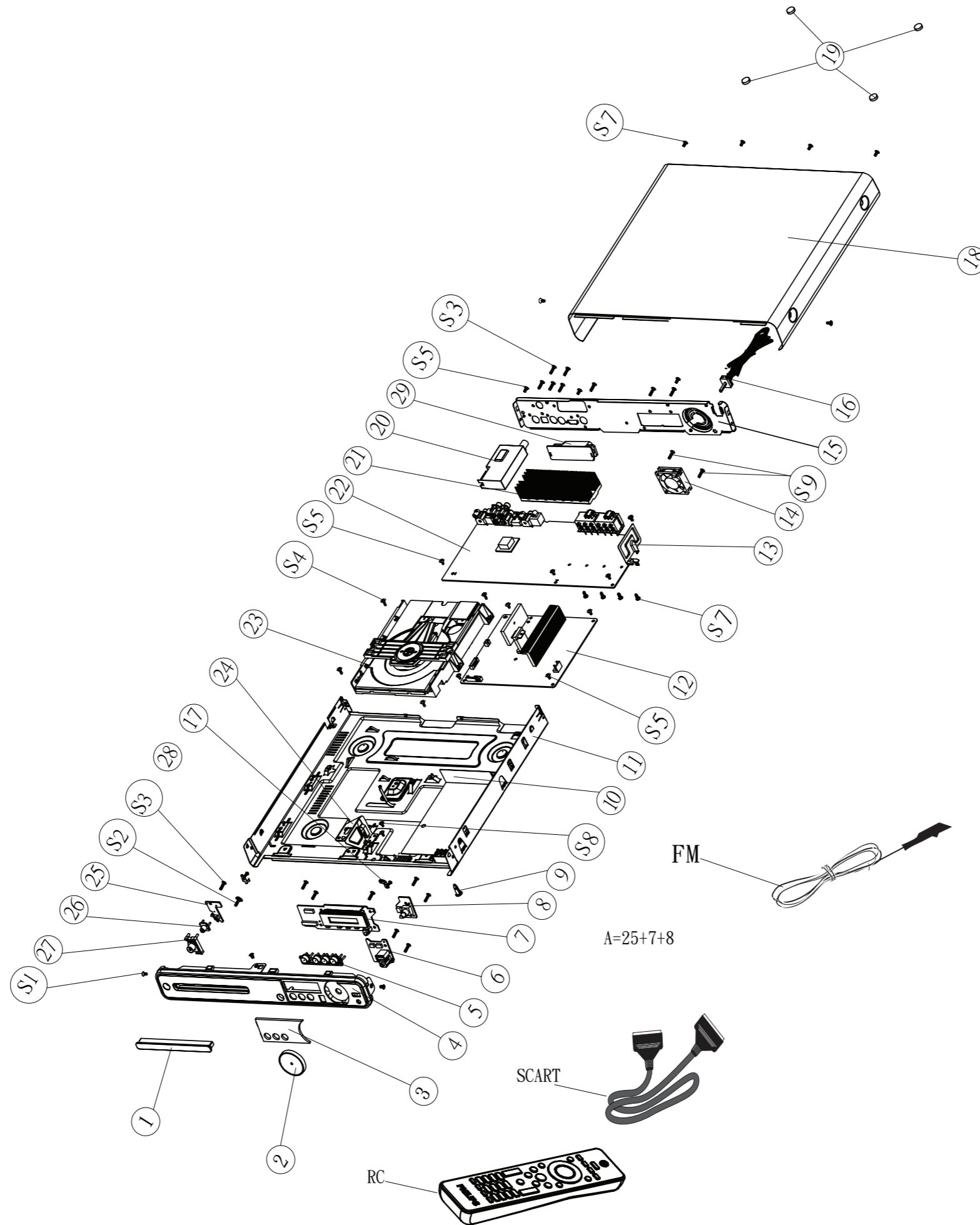
PCB LAYOUT - SCART PCB VIEW

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9-3

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 C711 A1 C713 B3 C715 A2 FB708 A1 FB710 A1 FB714 A1 R707 A1 RB701 B3





PART LIST

Loc.	Alt Part No.	safety Description
MAIN UNIT		
1	996510027083	DVD DOOR ABS BLK
2	996510021087	VOLUME KNOB
3	996510021093	DISPLAY LENS
4	996510021057	FRONT PANEL
5	996510021068	FUNCTION KNOB
6	996510021066	MP3 IN PCB ASSY
11	996510021945	BOTTOM CABINET T0.6mm
12	996510021073	⚠ POWER PCB ASSY 850W
14	996510021076	⚠ FAN DC12V 0.55A
15	996510027084	REAR PANEL SECC T=0.6mm
16	996510001638	⚠ POWER CORD
18	996510027086	TOP COVER SECC
19	996510021942	RUBBER FOOT D14xH4.2
20	# 996510011275	TUNER PACK
20	# 996510018486	TUNER PACK KST-MT004FS1-6D
22	996510021065	MAIN PCB ASSY
23	996510021248	⚠ DVD LOADER
24	996510027035	TOP SUPPORT SECC
26	996510021064	STANDBY LENS
27	996510021069	STANDBY KNOB
29	996510021058	SCART PCB ASSY
RC	996510021067	REMOTE CONTROL 39 KEYS
SCART	996510001650	SCART CABL
SCREW	996510017273	SCREW
V1	996510007429	FFCCBLE 10P100mmUL20798
A	996510021089	DISP+LED+VOL PCB ASSY
FM	996510008251	FM ANT

SPEAKER

C	996510027012	SPEAKER BOX
ML	996510027026	SPEAKER BOX
MR	996510027011	SPEAKER BOX
RFSUBW	996510010854	RUBBER FOOT -SUB
SL	996510027014	SPEAKER BOX
SR	996510027017	SPEAKER BOX
SUBW	996510027018	SPEAKER BOX

SCREW

S1	--	SCREW M3xP0.5xL6mm
S2	--	SCREW T3.0x1.06PxL8mm
S3	--	SCREW T3.0x1.06PxL8mm
S4	--	SCREW M3.0x0.5PxL8mm
S5	--	SCREW M3.0x0.5PxL6mm
S6	--	SCREW M3x6x0.5P
S7	--	SCREW T3.0x1.06PxL10mm
S8	--	SCREW M3.0x0.5PxL4mm
S9	--	L10xP2.12xT5.0mm

MAIN PCB

CN201	996500015859	CONNECTOR 4PIN P2.0MM
CN202	996510012494	CONNECTOR 5 PIN RED
CN204	996500017367	CONNECTOR 8P
CN205	996510012495	CONNECTOR 4P
CN206	996500015897	CONNECTOR 3 PIN RED
CN208	996500015897	CONNECTOR 3 PIN RED
CN301	996510012497	FPC/FFC CONN. 10P
CN401	996500015862	CONNECTOR B2B-XH-A 2 PIN
CN701	996500017358	CONNECTOR 7P
CN702	996500015895	CONNECTOR 5 PIN P=2.0MM
CN802	996500015901	CONNECTOR 6 PIN P=2.0MM
CN803	996500015895	CONNECTOR 5 PIN P=2.0MM
D201	996510010358	DIODE 1N4007

Loc.	Alt Part No.	safety Description
MAIN PCB		
D204	996510010358	DIODE 1N4007
GT01	996510027047	EMC BKT TIN T=0.3mm
IC101	996510021063	IC 16P SAA6581T SO16 PHILIPS
IC201	996510012499	IC 28P
IC202	# 996510021075	IC48P KH29LV320DBTC-70G
IC202	# 996510027085	IC 48P KH29LV320DBTC-70G
IC203	# 994000005209	IC 3P AZ809NSTR-E1 SOT23
IC203	# 996500041284	IC 3P STM809SWX6F 3.0V
IC204	996510004289	IC 8P TU24C16CS2 SOIC
IC205	# 996500027091	IC 3PIN AP1117E33LA SOT223
IC205	# 996510021062	IC3P LD1117ADJ SOT223
IC205	# 996510027042	IC 3P LD1117AL-33-AA3 3.3V
IC206	# 996510009895	IC 54P A641604L-6T TSOP II
IC206	# 996510016601	IC 54P HY57V641620F(L/S)TP-6
IC207	996510012500	IC 20 PIN SN74HC244PWR
IC208	# 996510021074	IC 48P STM32F101C6A LQFP
IC208	# 996510021936	IC 48P STM32F101C6A
IC209	996510021082	IC 256P MT1389FXE/SN LQFP
IC210	996500027090	IC 3 PIN AP1117E18LA 1.8V
IC301	# 996500029611	IC 8P CO4558A SO8
IC301	# 996510020341	IC 8P D4558 SOP SILICORE
IC304	996510012503	IC 16P CD4051BM SOIC TI
IC305	996510012503	IC 16P CD4051BM SOIC TI
IC306	996510021056	IC 20P WM8781GEDS SSOP
IC309	996510012500	IC 20 PIN SN74HC244PWR
IC401	996510021092	IC 64P TAS5508APAG TQFP TI
IC402	996510021081	IC 44P TAS5352ADDV HTSSOP
IC403	996510021081	IC 44P TAS5352ADDV HTSSOP
IC404	996510021081	IC 44P TAS5352ADDV HTSSOP
IC405	# 996500029611	IC 8P CO4558A SO8
IC405	# 996510020341	IC 8P D4558 SOP SILICORE
IC406	# 996500029611	IC 8P CO4558A SO8
IC406	# 996510020341	IC 8P D4558 SOP SILICORE
IC407	996500023948	IC 14PIN 74HCU04D PHILIPS
IC801	996510010380	Motor Drive IC
JK302A	996510016616	RCA JACK2PWHT-RED RCA-
JK401	996510013837	GPSPK JAC12P RD-WT-GRN-
JK601	# 996510012507	HDMI JACK 19P PDVBT8-19
JK601	# 996510027045	HDMI JACK 19P 01-010039
JK701	996510012481	RCA JACK 1P YELLOW W/GND
JK703	996510015645	TOSL JA PLR131/T2 RECEIVER
JK704	996500017363	RCA JACK 1P W/GND P
L202	996500015871	INDUCTOR 10 UH 10%
L401	996510021061	INDUCTOR 10uH 20% 10A
L402	996510021061	INDUCTOR 10uH 20% 10A
L403	996510021061	INDUCTOR 10uH 20% 10A
L404	996510021061	INDUCTOR 10uH 20% 10A
L405	996510021061	INDUCTOR 10uH 20% 10A
L406	996510021061	INDUCTOR 10uH 20% 10A
L407	996510021061	INDUCTOR 10uH 20% 10A
L408	996510021061	INDUCTOR 10uH 20% 10A
L409	996510021061	INDUCTOR 10uH 20% 10A
L410	996510021061	INDUCTOR 10uH 20% 10A
L411	996510021061	INDUCTOR 10uH 20% 10A
L412	996510021061	INDUCTOR 10uH 20% 10A
Q101	994000000921	XISTR PNP 2SA812 HFE:200-
Q102	# 994000000915	XISTR NPN 2SC1623
Q102	# 996510027037	XISTR NPN 2SC5343SG
Q204	996510012508	XISTR PNP TIP42C
Q205	996510000578	XISTR NPN KTC3875-Y
Q206	# 994000000915	XISTR NPN 2SC1623
Q206	# 996510027037	XISTR NPN 2SC5343SG
Q207	# 994000000915	XISTR NPN 2SC1623
Q207	# 996510027037	XISTR NPN 2SC5343SG
Q300	# 994000000915	XISTR NPN 2SC1623
Q300	# 996510027037	XISTR NPN 2SC5343SG
Q305	# 994000000915	XISTR NPN 2SC1623
Q305	# 996510027037	XISTR NPN 2SC5343SG
Q401	996510000578	XISTR NPN KTC3875-Y
Q402	994000000921	XISTR PNP 2SA812 HFE:200-

Loc.	Alt Part No.	safety	Description
MAIN PCB			
Q403	996510000578		XISTR NPN KTC3875-Y
Q404	996510000578		XISTR NPN KTC3875-Y
Q405	996500028742		XISTR NPN 2SD882P
Q406	994000000921		XISTR PNP 2SA812 HFE:200-
Q407	996510000578		XISTR NPN KTC3875-Y
Q408	994000000921		XISTR PNP 2SA812 HFE:200-
Q409	994000000921		XISTR PNP 2SA812 HFE:200-
Q410	996510000580		XISTR NPN MMS8050L
Q411	996510000578		XISTR NPN KTC3875-Y
Q412	996510000578		XISTR NPN KTC3875-Y
Q601	996510008289		FET AO3402 SOT23 30V/4A
Q602	996500041281		FET 2N7002 60V/115MA
Q701	# 994000000915		XISTR NPN 2SC1623
Q701	# 996510027037		XISTR NPN 2SC5343SG
Q702	# 994000000915		XISTR NPN 2SC1623
Q702	# 996510027037		XISTR NPN 2SC5343SG
Q703	# 994000000915		XISTR NPN 2SC1623
Q703	# 996510027037		XISTR NPN 2SC5343SG
Q704	# 994000000915		XISTR NPN 2SC1623
Q704	# 996510027037		XISTR NPN 2SC5343SG
Q801	996510004117		FET 2SK3018 30V/0.1A SC-70
Q802	# 994000000915		XISTR NPN 2SC1623
Q802	# 996510027037		XISTR NPN 2SC5343SG
Q803	996500026927		XISTR PNP 2SB1132RT100
Q804	996500026927		XISTR PNP 2SB1132RT100
Q805	996510004117		FET 2SK3018 30V/0.1A SC-70
Q901	996510000615		XISTR NPN 2SC945P
Q903	996500026946		XISTR PNP 2SB772P/Q NEC
XL401	996510021091		CRYST13.5MHz HC-49US
ZD901	994000005204		DIODE ZENR 12.6-13.1V 0.5W
ZD904	996500028741		DIODE ZENR 9.1-9.5V 0.5W

POWER PCB

BD901	# 996500038405		BRIDGE KBU808 8A 800V
BD901	# 996500041973		BRIDGE KBU808 8A 800V
BD901	# 996510011372		BRIDGE KBU808 8A 800V
C901	996500027115	⚠	CAP.SAFTY Y1 102PF 250V 20%
C902	996500018042		COND DISC 0.01UF 1KV 20%
C903	996500018042		COND DISC 0.01UF 1KV 20%
C904	996500018042		COND DISC 0.01UF 1KV 20%
C905	996500018042		COND DISC 0.01UF 1KV 20%
C906	994000005344	⚠	CAP.SAFETY Y1 560PF 400V
C915	996510012548	⚠	GOND SAFETY 0.47uF 275V
C916	996510004633		COND MYLAR 0.1 uF 100V 5%
C917	994000005343	⚠	COND SAFETY 0.22UF 275V
C918	996500027115	⚠	CAP.SAFTY Y1 102PF 250V 20%
C919	996500027115	⚠	CAP.SAFTY Y1 102PF 250V 20%
C920	996510012472		COND ELEC 330uF 200V 20%
C921	996510012472		COND ELEC 330uF 200V 20%
C941	996510021078		COND DISC 1000 pF 1KV 10%
C945	996500020264		COND DISC 470PF 1KV 10%
C952	# 996500027124		COND METAL 1.5UF 250V DC
C952	# 996510018266		COND METAL 1.5uF 250V DC
CN901	# 996500015936		CONNECTOR 4PIN P=3.96MM
CN901	# 996510018268		CONNECTOR 4P P=3.96mm180'
CN903	996500015901		CONNECTOR 6 PIN P=2.0MM
CN904	996510021055		CONNECTOR B7B-XH-A 7 PIN
CN905	# 996500017360		CONNECTOR 4P CL3962WVO
CN905	# 996510016729		CONNEC 4P P=3.96mm 180'
CN906	996500015898		CONNECTOR 2 PIN
D907	996500026949		DIODE SW 1N4148
D908	996500026949		DIODE SW 1N4148
D909	996500026949		DIODE SW 1N4148
D910	996500026949		DIODE SW 1N4148
D915	996510012516		DIODEHER105 DO-
D917	996510025474		DIODE HER105 1A 400V
D918	994000000938		DIODE PR1507 1.5A 1000V
D919	996510025474		DIODE HER105 1A 400V

Loc.	Alt Part No.	safety	Description
POWER PCB			
D922	994000005249		DIODE SB360 3A 60V DO-201AD
D923	994000000943		DIODE UF3003 3A 200V
D924	994000005346		RECTIFIER UF1602CT TO-
F901	996500042572	⚠	FUSE 5A 250V SLOW
GT902	996510021084		SURGE PROTECTOR DSP-
IC901	996510021079		IC 8P(P3=N.C) TNY180PN DIP-
IC902	994000000946		OPTICAL SENSOR 4P
IC904	# 994000000952		IC 3PIN TL431
IC904	1 994000001572		IC 3P TL431
IC905	996510008293		IC 16P AZ7500BP-E1
L901	# 996510021083		COMMON COIL 6mH 21.5Ts
L901	# 996510027021		COMMON COIL 6mH 20.5Ts
L902	# 996510021053		COMMON COIL 15mH 37.5Ts
L902	# 996510027023		COMMON COIL 15mH 36.5Ts
L904	996500016694		6UH 13.5TS 2UEW
L905	996500016694		6UH 13.5TS 2UEW
L906	996500015871		INDUCTOR 10 UH 10%
L907	996500027102		TOROID COIL S1=1TS
L908	996510012474		COMMON COIL75uH10%1KHz/
NTC901	994000005232	⚠	THERMIST. NTC 5R 5A
Q903	994000000921		XISTR PNP 2SA812 HFE:200-
Q904	994000000921		XISTR PNP 2SA812 HFE:200-
Q905	# 996510008289		FET AO3402 SOT23 30V/4A
Q905	# 996510027039		MOSFET STK003SF SOT23
Q906	# 994000000915		XISTR NPN 2SC1623
Q906	# 996510004282		XISTR NPN SMT (2SC945)
Q907	996510018395		FET AO3401 SOT23 -30V/-4.2A
Q910	996500026946		XISTR PNP 2SB772P/Q NEC
Q911	996500026946		XISTR PNP 2SB772P/Q NEC
Q912	996510021085		MOSFET STK1060F TO220F
Q913	996510021085		MOSFET STK1060F TO220F
Q914	996510010356		XISTR PNP 2SB647 TO-92MOD
Q918	994000000915		XISTR NPN 2SC1623
R943	996510012519		RES. 120 OHM 3W 5% MOF
R944	996510012519		RES. 120 OHM 3W 5% MOF
R945	996510012519		RES. 120 OHM 3W 5% MOF
R951	996510012519		RES. 120 OHM 3W 5% MOF
R982	996510027016		RES. 2.2K OHM 1W 5% MO
T901	# 996510021071	⚠	TRASFO EEL25 7+7P 40W
T901	# 996510021236	⚠	TRASFO. EEL-25 7+7P 40W
T901	# 996510027028	⚠	SW TRANS EEL-25 7+7P
T902	# 994000001057	⚠	SW. MODEL TRANSFORMER
T902	# 996510021088	⚠	TRASFO EEL19 5+5P 100KHz
T902	# 996510022032	⚠	TRASFO EEL-19 5+5P
T903	# 996510012478	⚠	SW TRANS ERL-35 7+7P
T903	# 996510012479	⚠	SW TRANS ERL-35/42 7+7P
T903	# 996510021086	⚠	TRASFO ERL35 7+7P 150W
TVR901	996510011373	⚠	METAL OXIDE VARISTOR
TVR902	996510021072		SURGEORBER :VCR-
TVR903	996510021072		SURGEORBER :VCR-
ZD903	994000002067		DIODE ZENR 14.5-15.1V 0.5W
ZD904	994000002067		DIODE ZENR 14.5-15.1V 0.5W

DISP+LED+VOL PCB

LD351	996510020167		LED 3 DIA RED ROUND
Q353	994000000921		XISTR PNP 2SA812 SOT-23
DP351	996510021249		VFD 32P AOTOM:20075-2A24
VR351	996510027019		ENCODER L15x7mm
IC351	996500029614		IC 52 PIN PT6311(PTC)
LD351	996510020167		LED 3 DIA ULTRA RED TINT
Q351	994000000921		XISTR PNP 2SA812
Q352	994000000915		XISTR NPN 2SC1623
SN351	994000005472		IRT RECEIVER IRM-2638AF4

MP3 IN PCB

JK351	996510004129		KARAOKE JACK D3.6MM 7P
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SCART PCB PCB

JK703	996510021054		SCART SOCKET 21P P3.81mm
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REVISION LIST

Version 1.1

*Initial release

#=Alternative Codes

=Safety Symbol