

Service
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Service Manual



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Published by SL0910 Service Audio Printed in The Netherlands Subject to modification

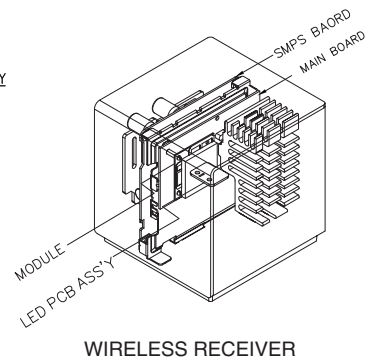
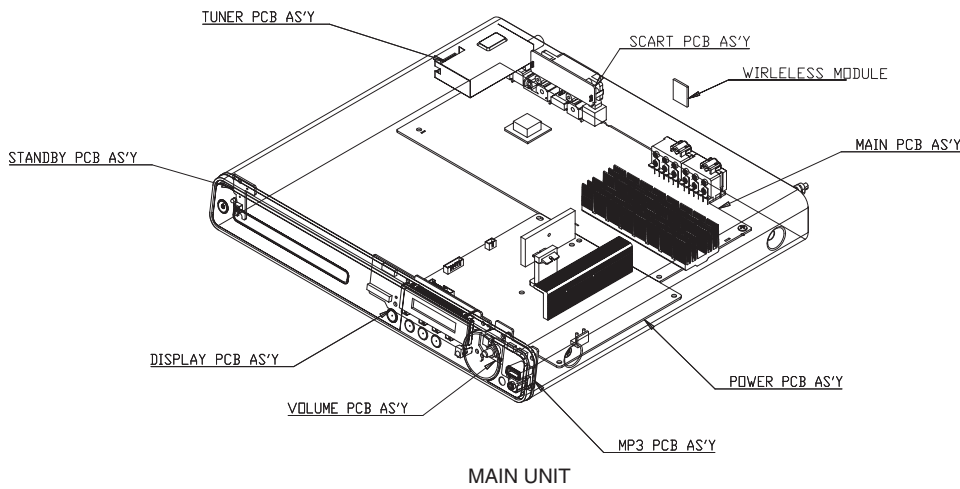
GB 3141 785 33700

Version 1.0



PHILIPS

LOCATION OF PCB BOARDS



VERSION VARIATION:

Type/Versions	HTS3377W
Features	/12
Output Power - 1000W	X
Voltage (220~240V)	X
MP3 Link	X

SERVICE SCENARIO MATRIX:

Type/Versions	HTS3377W
Board in used	/12
Main Board	Bd
Power Board	Bd
DISP+LED+VOL Board	Bd
Scart Board	Bd
MP3 IN Board	Bd
Main+Led+Heat Board	Bd
SMPS Board	Bd

*Bd = Board 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)
26 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

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

Main Unit

Power supply.....220–240 V; ~ 50 Hz
Power consumption..... 180 W
Standby power consumption..... < 1 W
Dimensions (WxHxD)..... 360 x 57 x 331 (mm)
Weight.....2.87 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)
Weight.....4.85 kg

Wireless receiver

Power Consumption..... 50 W
Frequency Response..... 6000 Hz
S/N Ratio..... 60 dB (A-Weighted)
Input Sensitivity:..... 400-600 mV
Distortion..... 1%
Dimensions (WxHxD).....
..... 126 x 130.5 x 126 (mm)
Weight:.....1.11 kg

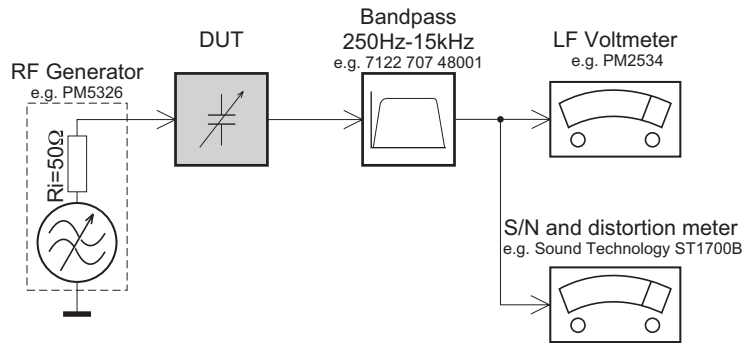
Laser specification

Type..... Semiconductor laser GaAlAs (CD)
Wave length..... 645 - 665 nm (DVD), 770 - 800 nm (CD)
Output power.....6 mW (DVD), 7 mW (VCD/CD)
Beam divergence..... 60 degrees.

Specifications subject to change without prior notice.

MEASUREMENT SETUP

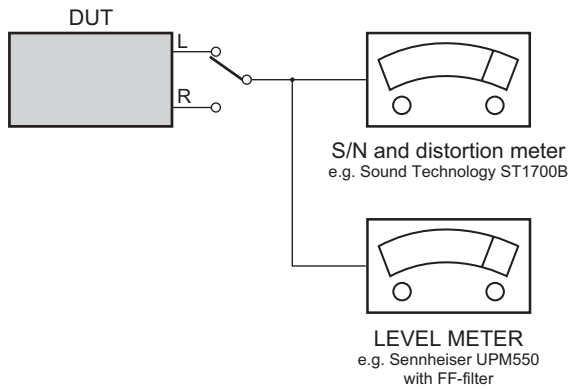
Tuner FM



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

CD

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



SERVICE AIDS

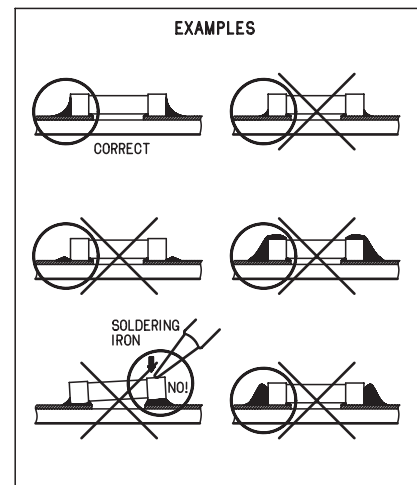
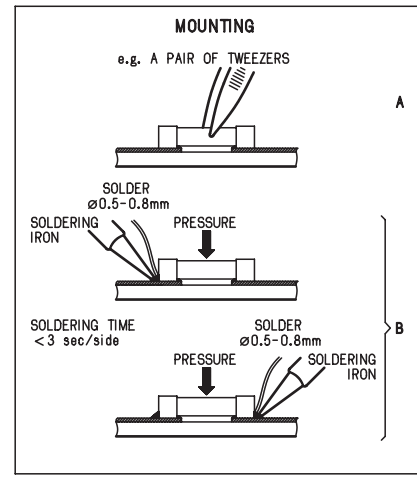
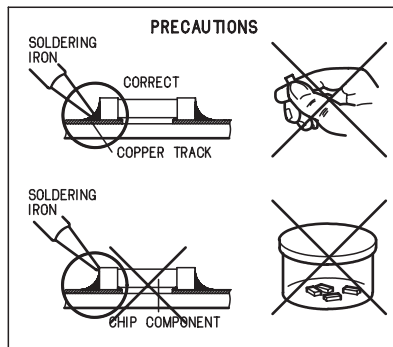
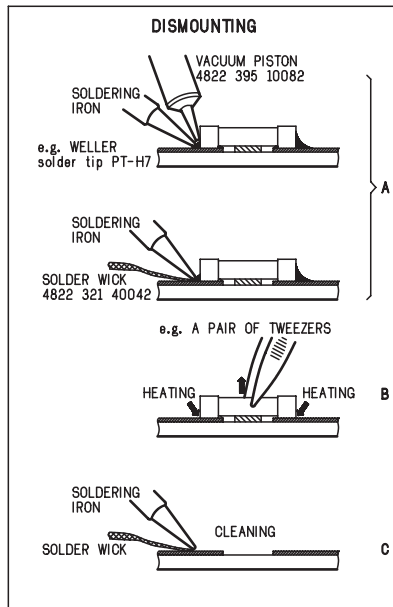
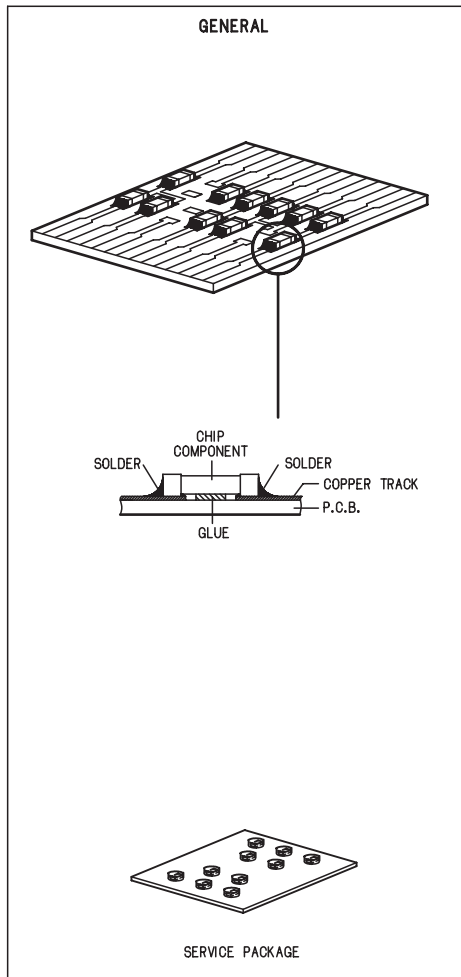
Service Tools:

- 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



ESD**(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.

**(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 ditzelfde potentiaal.

(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 enfilez 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.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridotta 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.

Componenti 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 spärrar är urkopplad. Betrakta ej strålen.

(SF) Varoitus !

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alltiina 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.

IDENTIFICATION:

Regardless of special logo (not always indicated)



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

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

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

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

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

Do not re-use BGAs at all.

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

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

For additional questions please contact your local repair-helpdesk.

System , Region Code , etc. Setting Prodnre**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

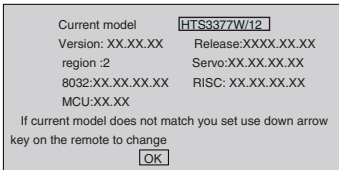
2)Region Code Change

- 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

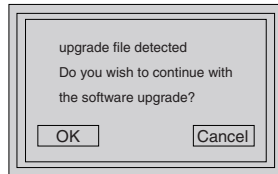
- Open the CD Door
- Press "INFO" button on R/C
- TV will show the version on screen

6)Trade model

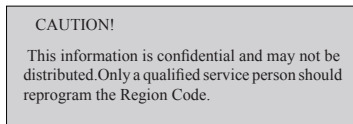
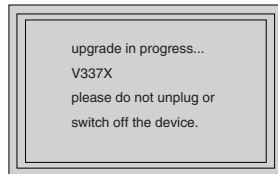
- Press "Open/Close " button on R/C
- Press "2" "5" "9" on R/C,VFD will display "TRA ON " or "TRA OFF"

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:

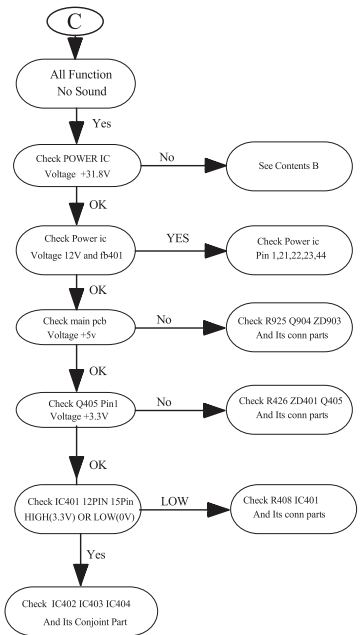
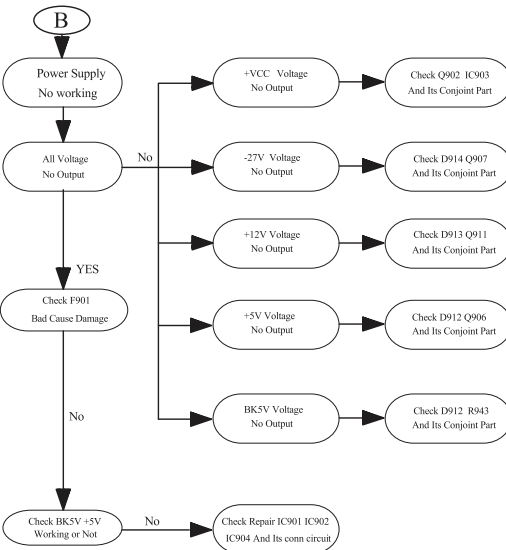
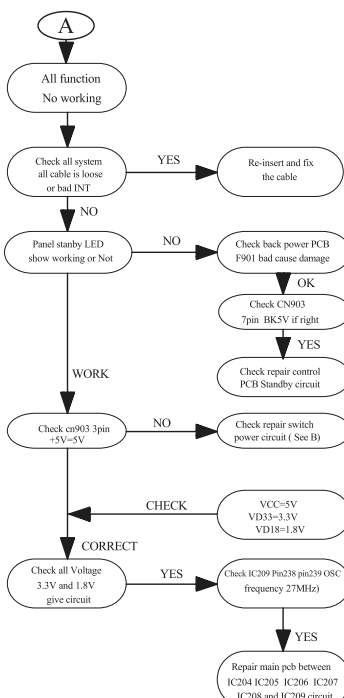


- Select "OK", OSD will show:

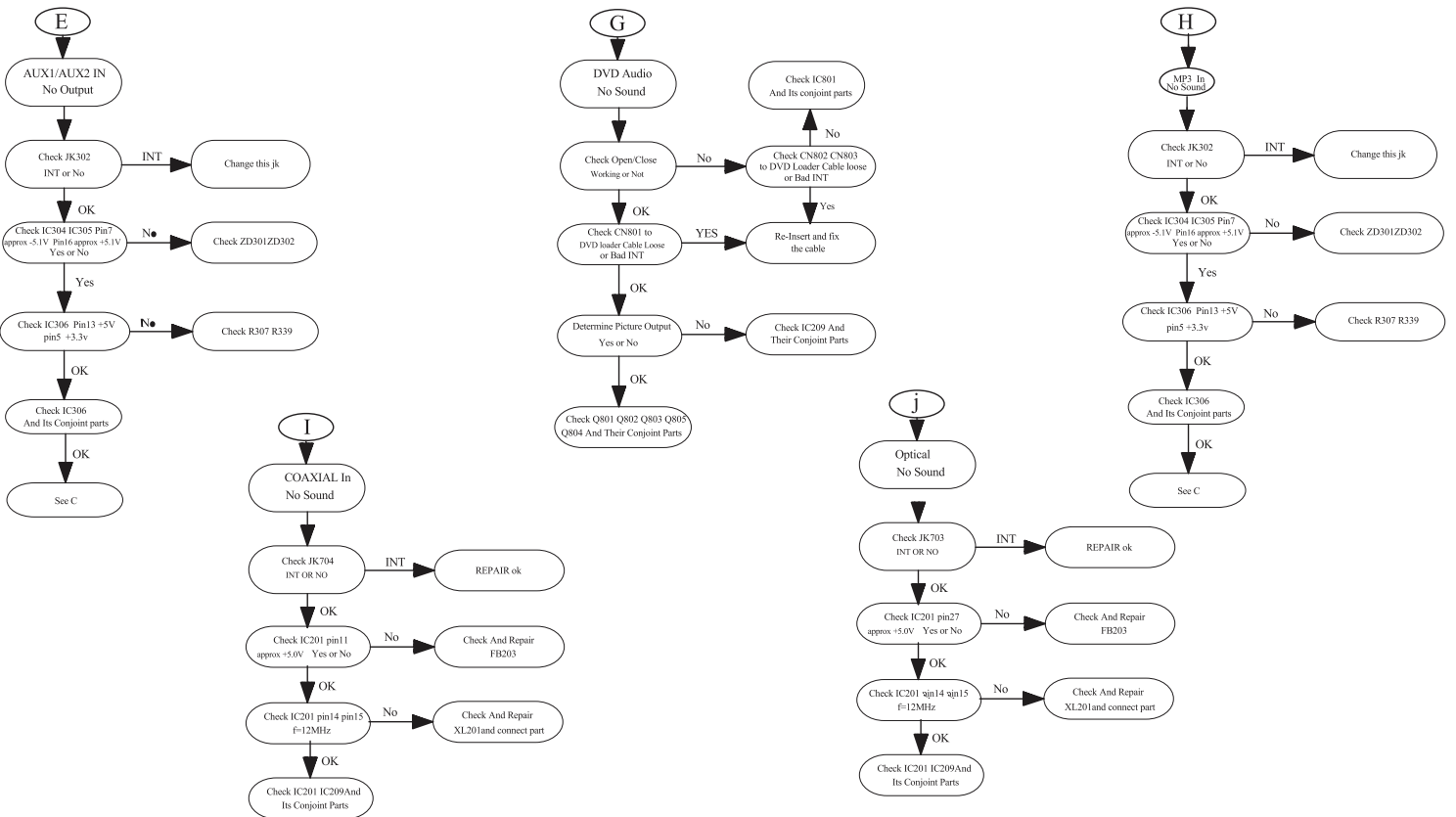


MAIN UNIT REPAIR CHART 1/3

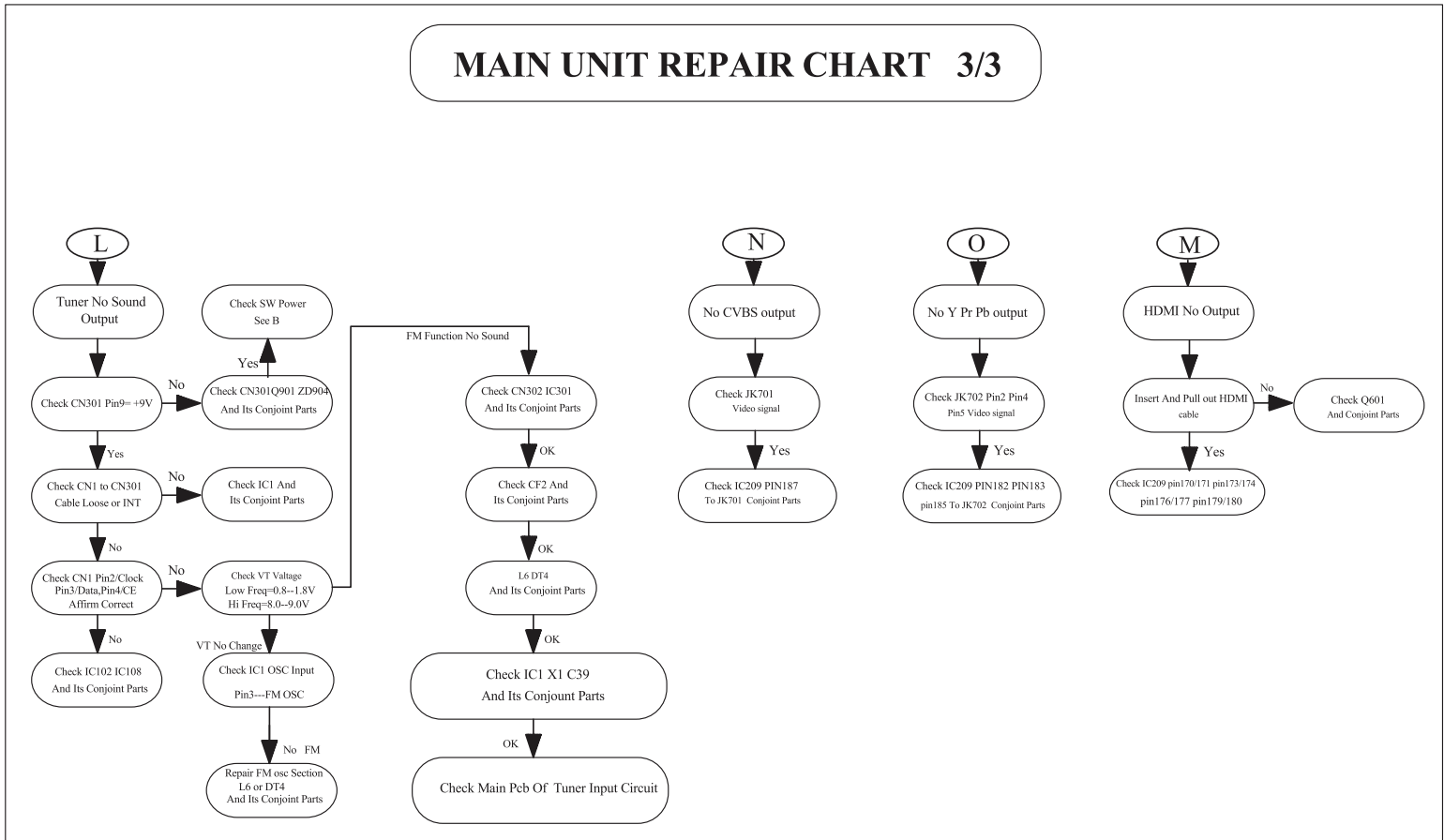
- A
All Function
No Working
- B
Power Supply
No Working
- C
All Function
No Sound
- E
Audio line IN
No Output
- G
DVD Audio
No Sound
- H
MP3 In
No Sound
- I
COAXIAL In
No Sound
- J
Optical In
No Sound
- L
Tuner No Sound
- M
HDMI No Output
- N
No CVBS Output
- O
No Y Pr Pb output

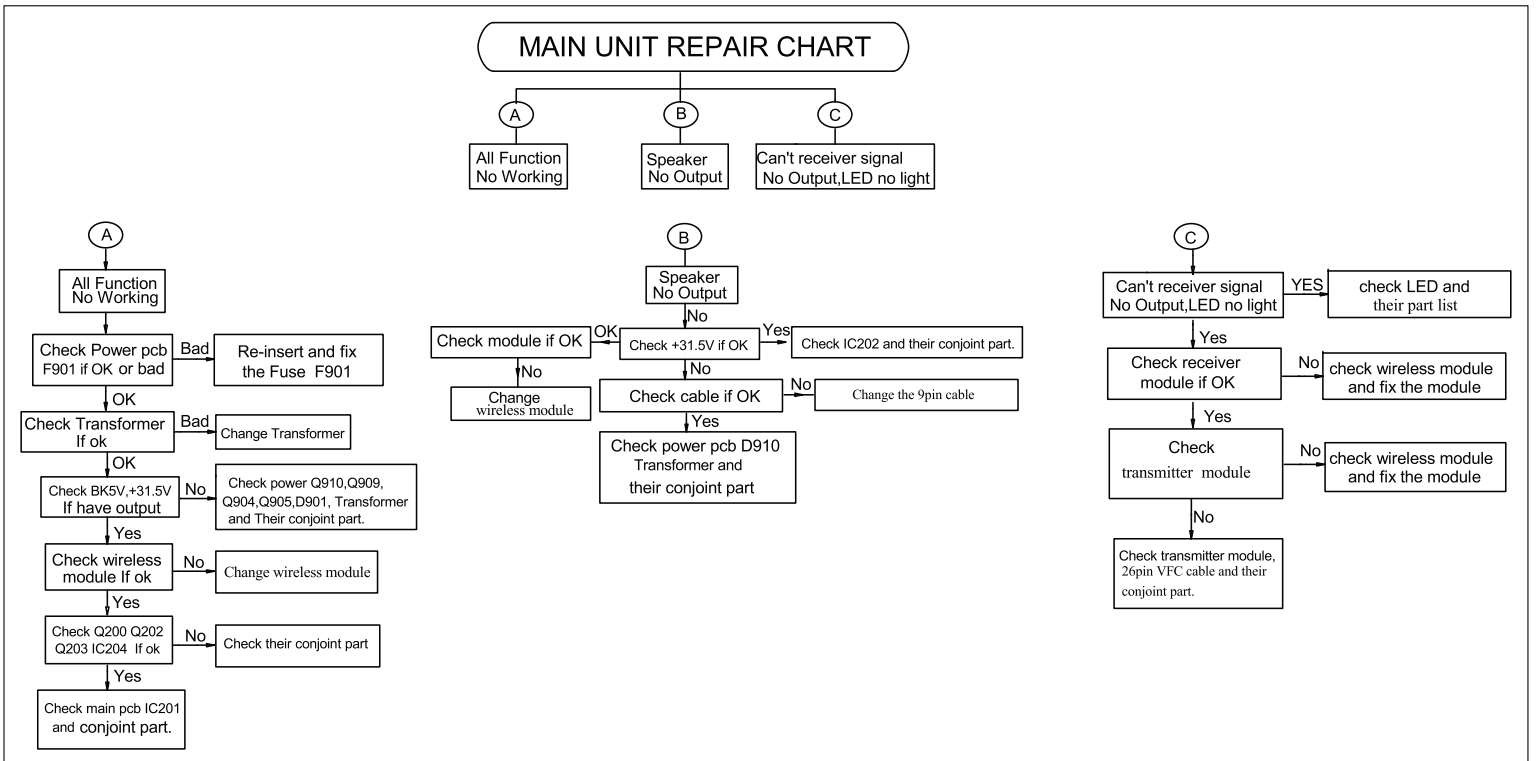


MAIN UNIT REPAIR CHART 2/3



MAIN UNIT REPAIR CHART 3/3





3 - 1
DISASSEMBLY INSTRUCTIONS(part one _main unit)

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.

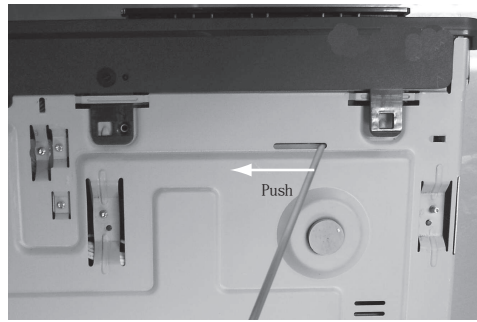


Figure 1



Figure 2

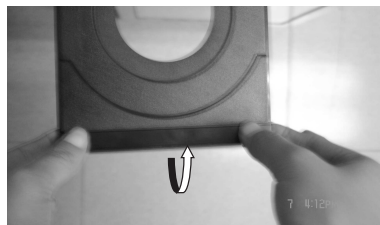


Figure 3

3 - 1

- 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 6 screws "C" at the front panel bracket as in figure 6A & figure 6B to remove the front panel.

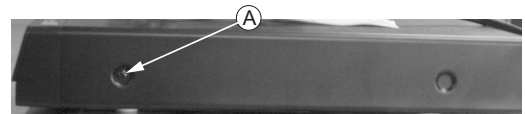


Figure 4

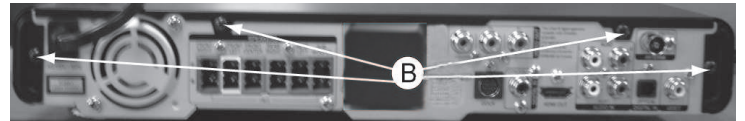


Figure 5

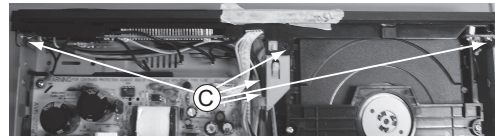


Figure 6A

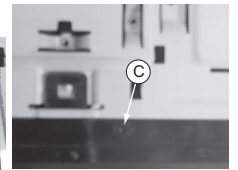


Figure 6B

Dismantling of the DVD Module

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

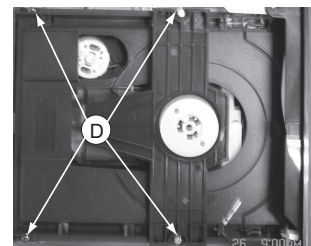


Figure 7

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.

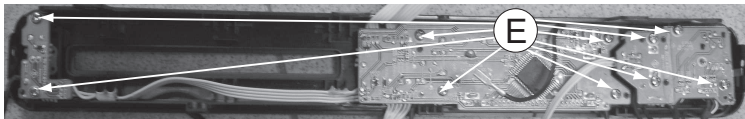


Figure 8

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.

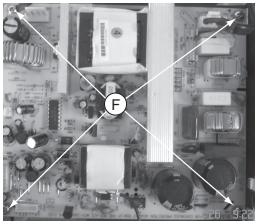


Figure 9

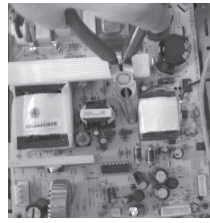


Figure 10

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 "H" to remove Main Board and loosen 2 screws to remove Scart Board as shown in figure 12.

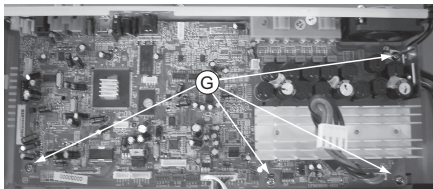


Figure 11

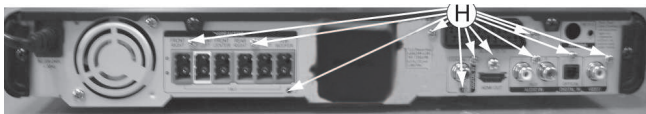
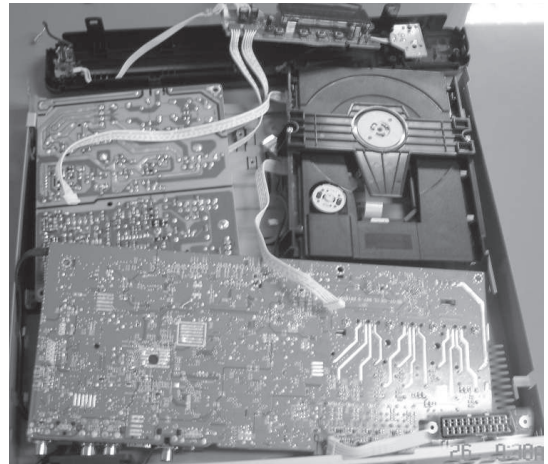


Figure 12

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.

3 - 3

DISASSEMBLY INSTRUCTIONS (part two_wireless)

Dismantling of the Receiver module outer cover Assembly

- 1) Loosen 4 screws "A" on the bottom and remove the front & top Cover by lifting the panel upwards before sliding it from the set as shown in figure 1.
- 2) Loosen 4 screws to remove the side & back & bottom panel:
 - 3 screws "B" on the bottom as shown in figure 2;
 - 1 screw "C" as shown in figure 3.

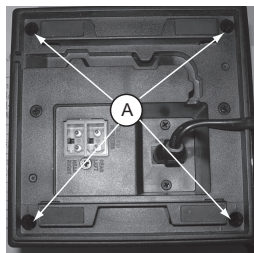


Figure 1

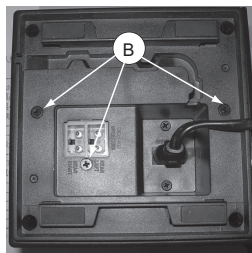


Figure 2

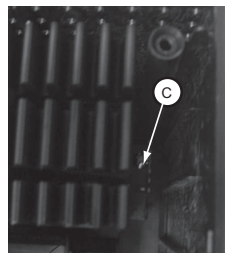


Figure 3

Dismantling of the SMPS Board

- 1) Loosen 4 screws "D" on the top of SMPS Board as shown in figure 4 to remove SMPS Board.
- 2) Loosen 3 screws "E" as shown in figure 5.

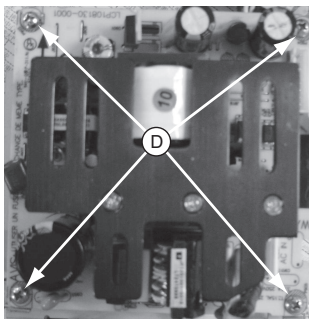


Figure 4

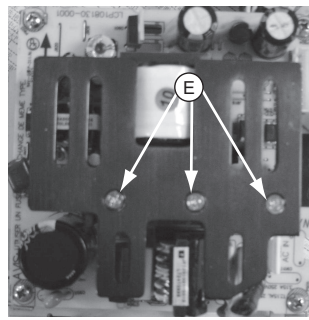


Figure 5

3 - 3

Dismantling of the MAIN+LED+HEAT SINK Board

- 1) With a pincers to nip this space as shown in figure 6 and to take up this board.
- 2) Loosen 2 screws "F" as shown in figure 7, and loosen 1 screw "G" on the top of Wireless Main Board as shown in figure 8 to remove the Wireless Main Board.
- 3) Loosen 2 screws "H" at the bottom of Wireless Main Board to remove Heat Sink as shown in figure 9.
- 4) Loosen 2 screws "I" on the top of LED Board as shown in figure 10.

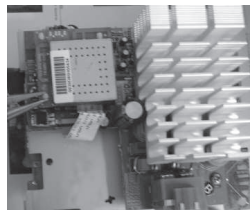


Figure 6

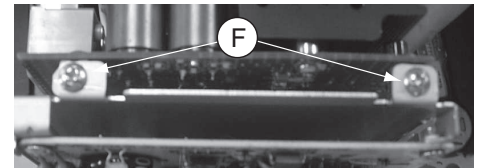


Figure 7

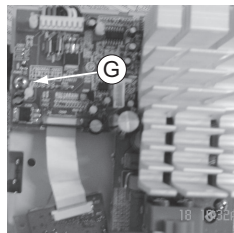


Figure 8

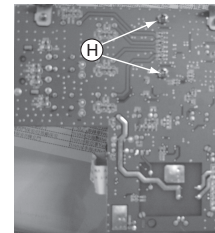


Figure 9

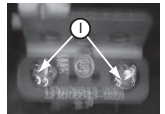
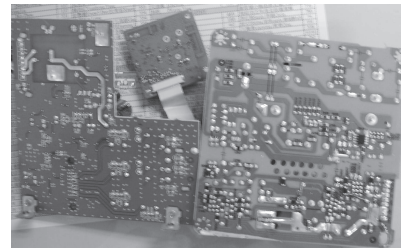


Figure 10

SERVICE POSITIONS (wireless)

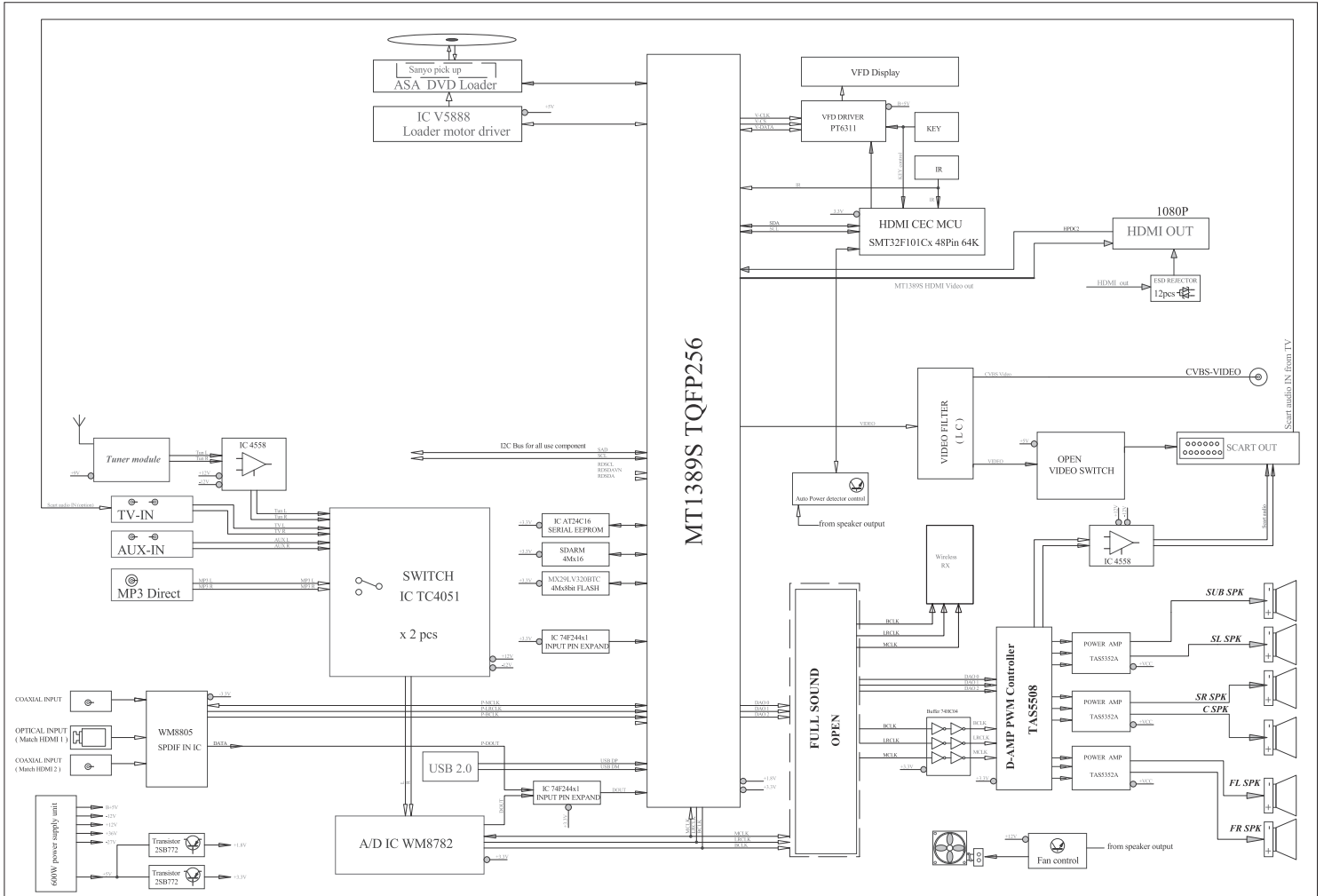


Note: In some service positions the components or copper patterns of one board may risk touching its neighbouring pc boards or metallic parts. To prevent such short-circuit use a piece of hard paper or other insulating material between them.

BLOCK DIAGRAM_main unit

4 - 1

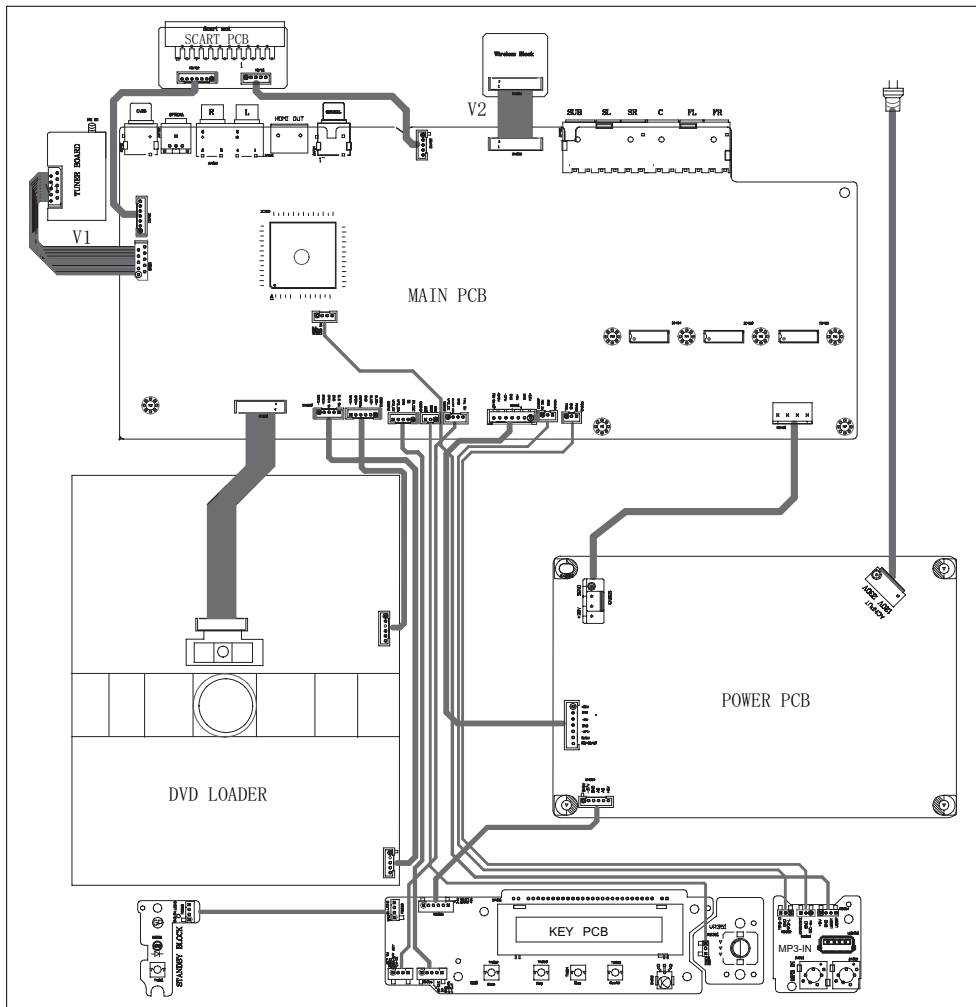
4 - 1

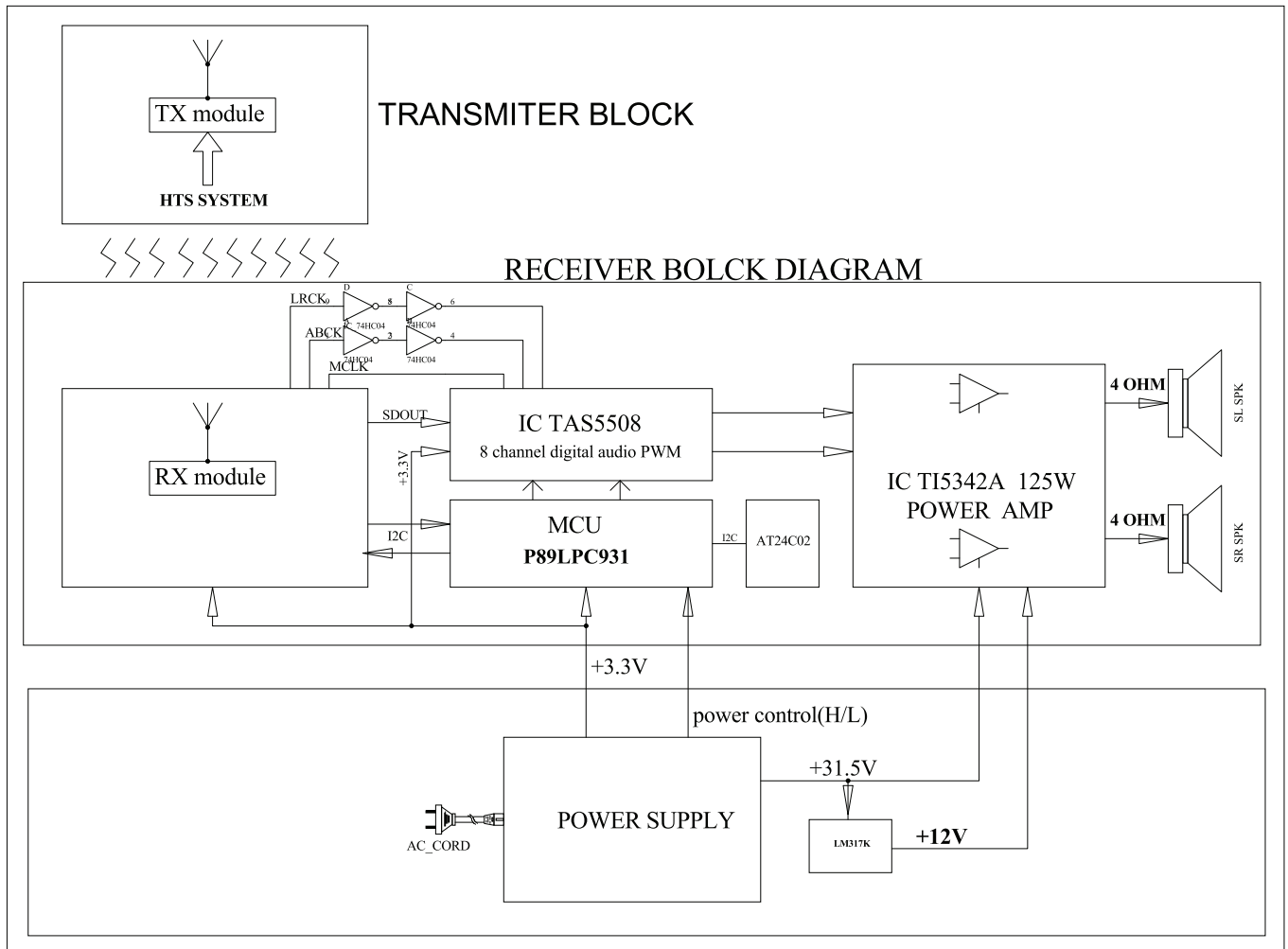


WIRING DIAGRAM_main unit

4 - 2

4 - 2

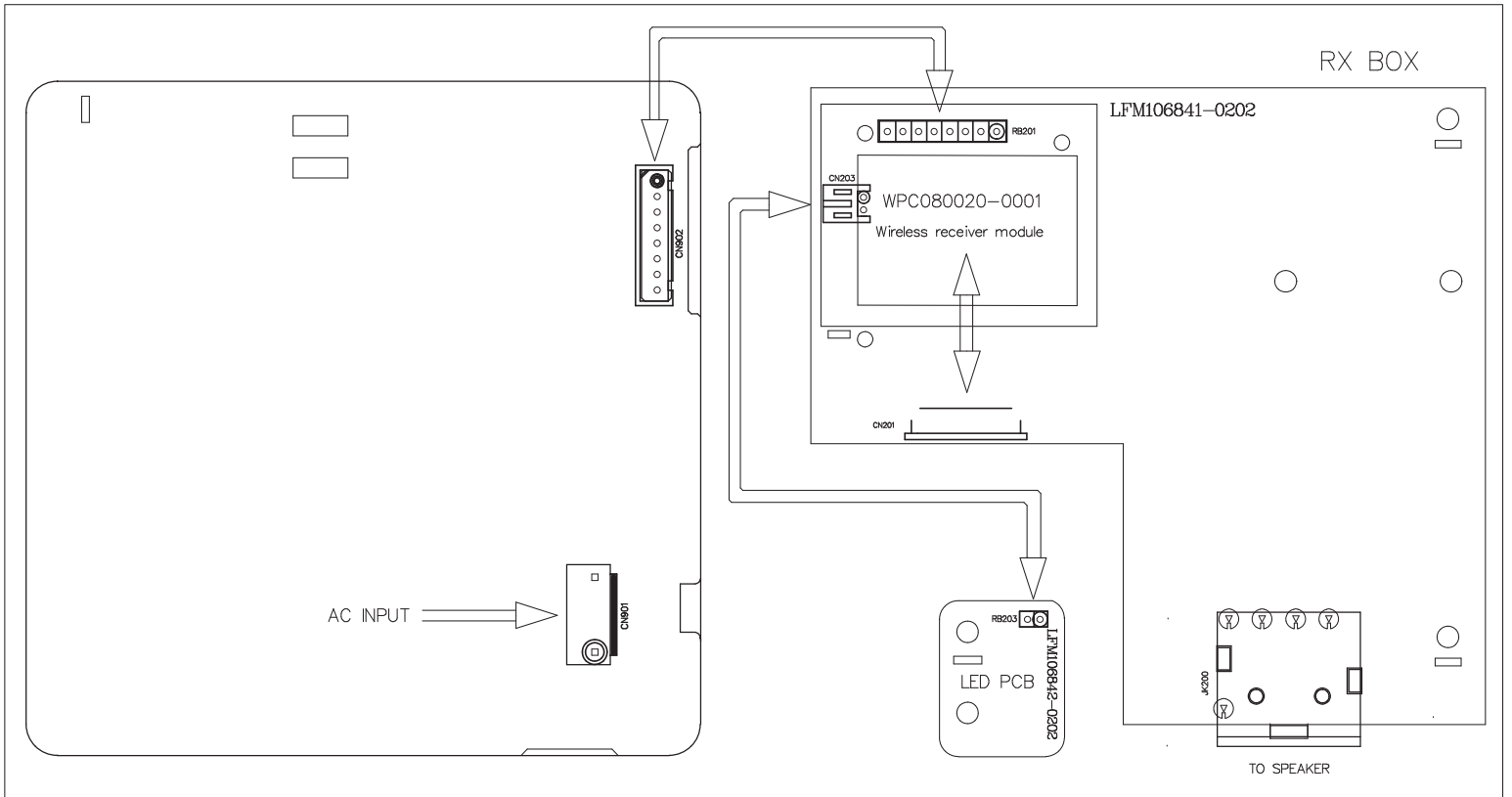




WIRING DIAGRAM_wireless

4 - 4

4 - 4



DISP+LED+VOL BOARD-main unit

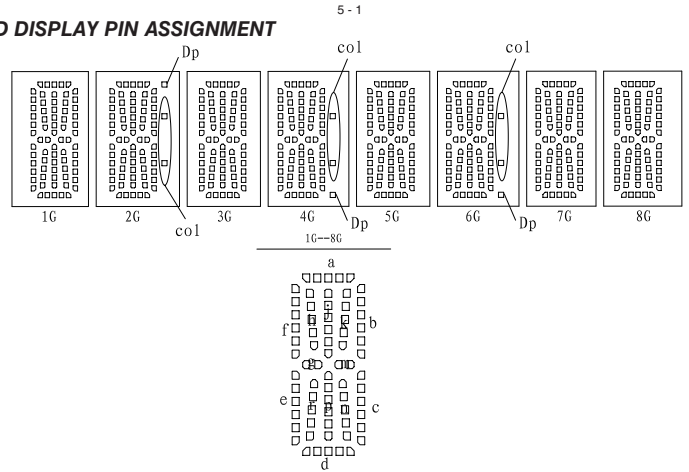
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FTD DISPLAY PIN ASSIGNMENT



	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	/	/

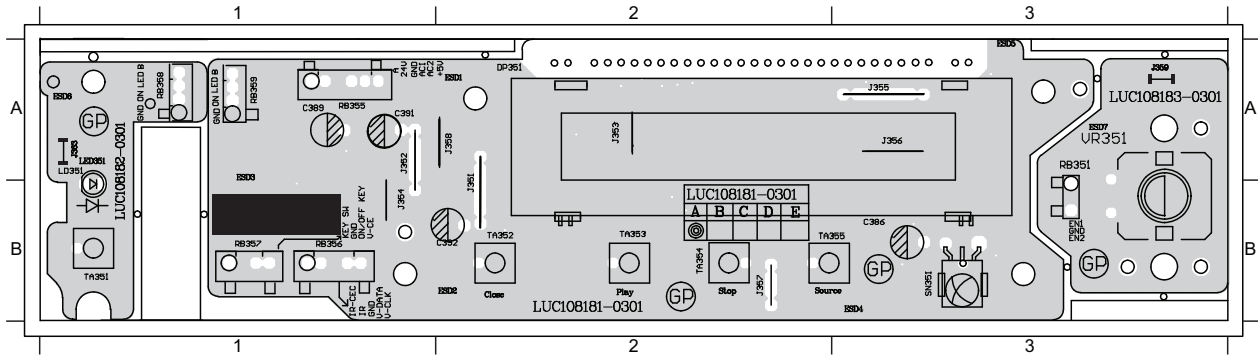
PIN CONNECTION

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)

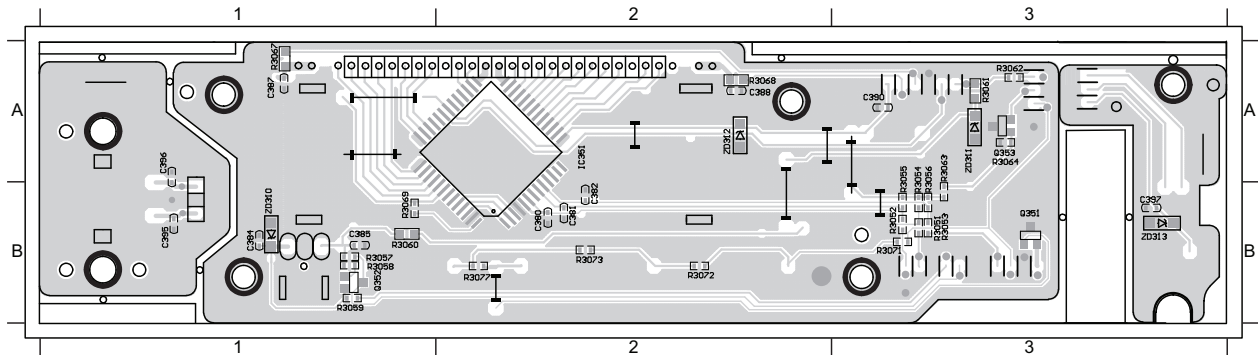
PCB LAYOUT - TOP VIEW

- 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

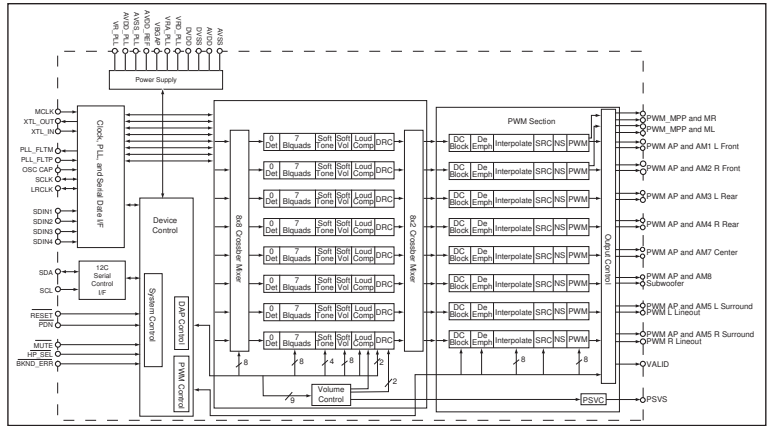


MAIN BOARD-main unit

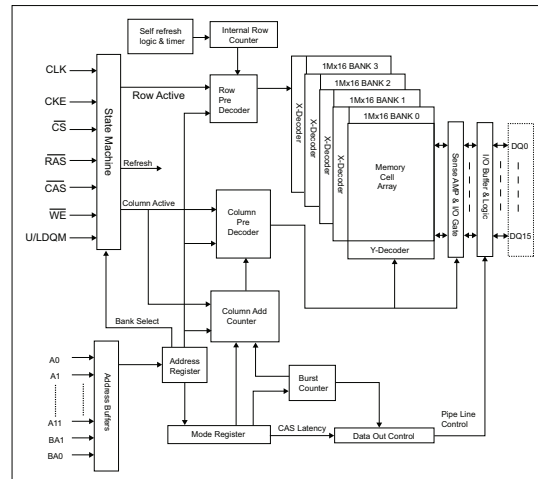
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INTERNAL IC DIAGRAM - TAS5508B

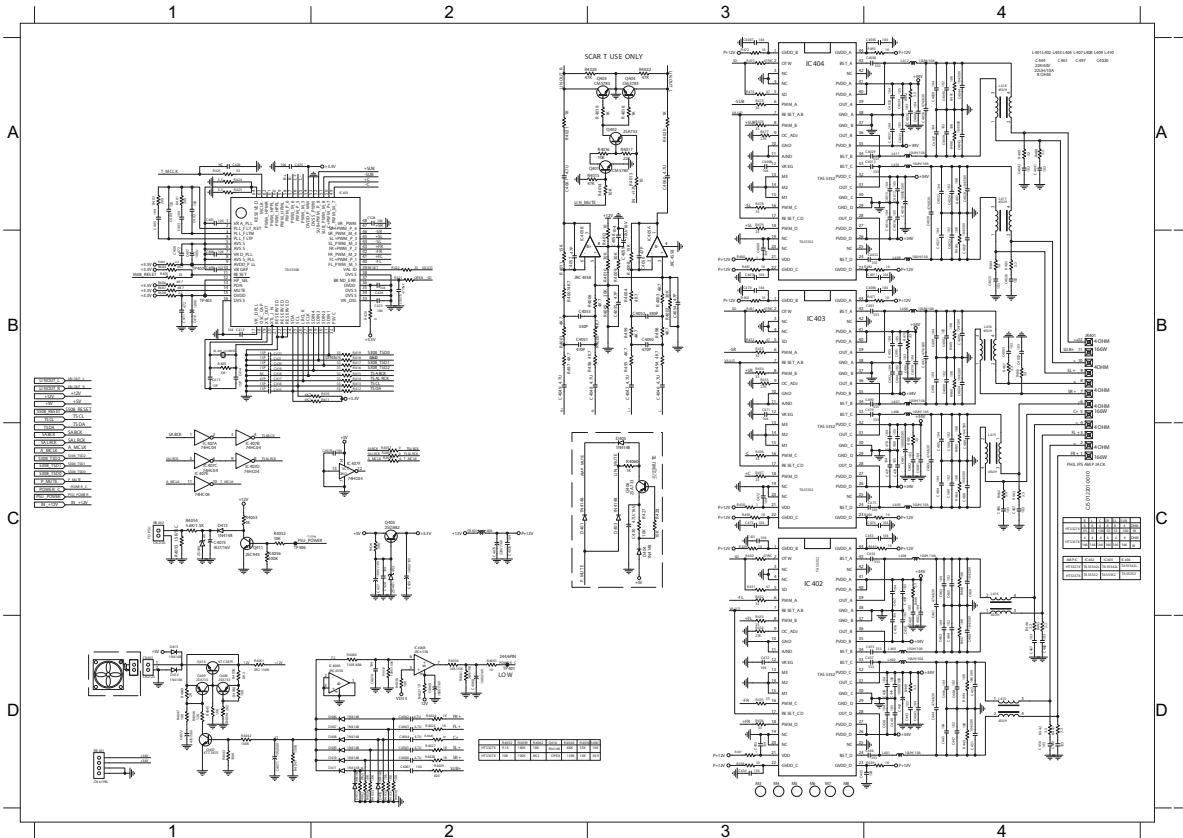


INTERNAL IC DIAGRAM - HY57V641620F



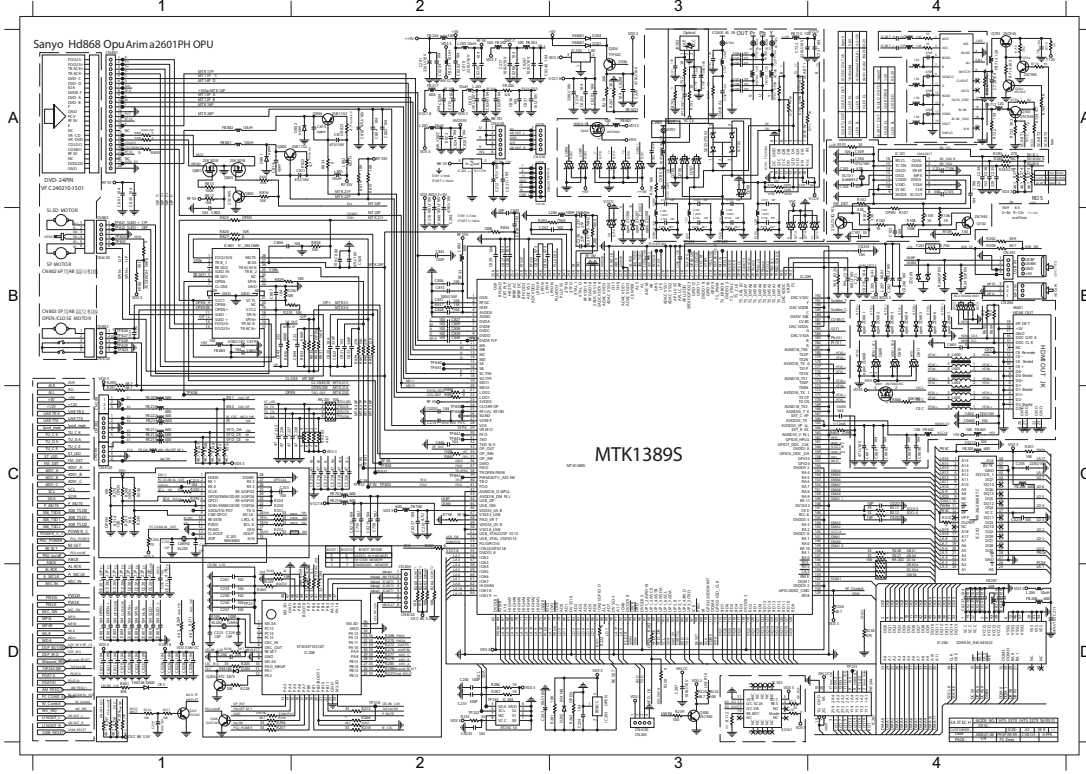
CIRCUIT DIAGRAM - part one

C4000 B4	C4014 A4	C4032 A4	C405 A1	C4063 D2	C408 B1	C422 B1	C438 D4	C457 C4	C476 B4	C493 B4	D408 D2	IC407 C1	Q402 A3	R4005 B3	R4019 A3	R4032 D2	R4046 D1	R4062 D2	R421 B2	R437 D3	R457 C3	R472 A3	R492 A4
C4001 B4	C4015 A4	C4035 A4	C4050 B3	C4064 D2	C4080 A4	C423 B2	C439 D4	C460 D4	C477 C4	C496 B4	D409 D2	JK401 B4	Q403 A3	R4006 B3	R402 A1	R4033 D2	R4047 D1	R407 B1	R422 B2	R438 D3	R458 C3	R474 A3	R493 A4
C4002 B4	C4018 A4	C4036 A4	C4051 B2	C4065 D2	C4081 C4	C424 B2	C442 D4	C461 C4	C478 C4	C497 B4	D410 D2	L401 D4	Q404 A3	R4007 B2	R4020 A3	R4034 D2	R4048 D1	R408 B1	R423 A1	R439 D4	R459 C3	R475 A3	R494 B3
C4003 B4	C402 A1	C4037 A4	C4052 B3	C4066 D2	C409 B1	C425 A1	C443 D4	C462 D4	C481 C4	C498 B4	D411 D2	L402 D4	Q405 C2	R4008 B3	R4021 A2	R4035 D2	R4049 D1	R409 B1	R424 A1	R440 D4	R460 C4	R476 A3	R495 B3
C4004 B4	C4020 A4	C4038 A4	C4053 B2	C4067 D2	C410 B1	C427 C2	C444 D4	C463 C4	C482 C4	C499 B4	D412 D2	L403 D4	Q406 C3	R4009 B3	R4022 A3	R4036 D2	R405 B1	R410 B2	R425 A1	R443 D4	R461 C4	R477 A3	R496 B3
C4005 B4	C4021 B4	C4039 A4	C4054 B3	C4068 D2	C411 B1	C428 C2	C445 D4	C464 C4	C483 C4	C528 A2	D413 D1	L404 C4	Q407 D1	R401 A1	R4023 A3	R4037 D2	R4050 D1	R411 B2	R426 C2	R444 D4	R462 C4	R478 A3	R497 B2
C4006 B4	C4022 A4	C404 A1	C4055 B3	C4069 D2	C412 B1	C429 C2	C446 D4	C465 C4	C484 C4	C589 C4	D414 D1	L405 C4	Q408 D1	R4010 B3	R4024 D2	R4038 D2	R4051 D1	R412 B2	R427 C3	R447 D4	R463 C4	R479 A3	R498 B3
C4007 A3	C4023 B4	C4040 A4	C4056 B3	C407 B1	C413 B1	C430 C3	C447 D4	C468 D4	C485 C4	C590 C4	D415 C1	L406 B4	Q409 D1	R4011 B2	R4025 D2	R4039 D2	R4052 C1	R413 B2	R428 C3	R448 C4	R464 C4	R480 B3	R499 B3
C4008 A3	C4024 A4	C4043 A4	C4057 B2	C4070 D2	C414 B1	C431 C3	C448 D4	C469 C4	C486 C4	CN401 D1	FB401 C2	L407 B4	Q410 D1	R4012 B3	R4026 D2	R404 B1	R4053 C1	R414 B2	R429 C3	R449 C4	R465 C4	R481 B3	RB401 D1
C4009 B3	C4027 B4	C4044 A4	C4058 B3	C4071 D1	C415 B1	C432 D3	C451 D4	C470 B3	C487 C4	D401 C2	IC401 A2	L408 B4	Q411 C1	R4013 A3	R4027 D2	R4040 D2	R4054 C1	R415 B2	R431 C3	R450 B3	R466 B4	R482 B4	RB402 C1
C401 A1	C4028 A4	C4045 A4	C4059 B3	C4072 D1	C416 B1	C433 D3	C452 D4	C471 B3	C488 C4	D403 C3	IC402 C3	L409 B4	R4000 B3	R4014 A3	R4028 D2	R4041 D1	R4055 C1	R416 B2	R432 C3	R452 B3	R467 B4	R483 C4	XL401 B1
C4010 B3	C4029 A4	C4046 B3	C406 B1	C4073 C1	C417 B1	C434 D3	C453 D4	C472 C3	C489 C4	D404 C3	IC403 B3	L410 A4	R4001 B2	R4015 A3	R4029 D2	R4042 D1	R4056 C1	R417 B2	R433 D3	R453 B3	R468 B4	R486 B4	ZD401 C2
C4011 B4	C403 A1	C4047 B3	C4060 A3	C4075 C2	C419 B1	C435 D4	C454 C4	C473 C3	C490 B4	D405 C3	IC404 A3	L411 A4	R4002 B3	R4016 A3	R403 B1	R4043 D1	R406 B1	R418 B2	R434 D3	R454 B3	R469 B4	R487 A4	
C4012 B4	C4030 A4	C4048 B3	C4061 A2	C4076 C2	C420 B1	C436 D4	C455 C4	C474 C4	C491 B4	D406 D2	IC405 B3	L412 A4	R4003 B3	R4017 A3	R4030 D2	R4044 D1	R4060 C1	R419 B2	R435 D3	R455 B3	R470 B4	R490 A4	
C4013 A4	C4031 A4	C4049 B2	C4062 D2	C4078 C2	C421 B1	C437 D4	C456 D4	C475 C4	C492 B4	D407 D2	IC406 D2	Q401 A3	R4004 B3	R4018 A3	R4031 D2	R4045 D1	R4061 D2	R420 B2	R436 D3	R456 C3	R471 B4	R491 A4	



CIRCUIT DIAGRAM - part two

C0201 C2	C0221 D1	C0249 A2	C202 B4	C224 D1	C254 D3	C720 B3	C808 B2	C830 B2	CE205 D1	CN202 C1	FB204 A2	FB707 C2	JK601 B4	Q102 B4	Q804 A2	R211 C4	R233 D2	R260 D2	R285 D2	R704 A3	R803 A1	R833 B2
C0202 A2	C0222 D1	C0251 C4	C203 A2	C225 C1	C255 D1	C721 A3	C809 B2	C831 B2	CE206 D1	CN203 D3	FB205 C4	FB708 C2	JK701 A3	Q204 A3	Q805 A1	R212 C4	R234 C1	R261 D2	R286 D2	R705 A3	R804 B1	R834 B2
C0203 A2	C0226 D1	C0252 C4	C204 B2	C226 C1	C256 D1	C722 A3	C810 A2	C832 B2	CE207 D1	CN205 C1	FB206 C4	FB712 A4	JK703 A3	Q205 D1	R101 A4	R213 D2	R235 B1	R263 D2	R287 D2	R712 A4	R805 B1	R835 B2
C0204 D1	C0227 C2	C0253 B4	C205 C4	C227 C1	C257 D1	C723 B3	C811 A2	C833 B2	CE212 D1	CN206 B4	FB207 D4	FB713 A4	JK704 A3	Q206 D1	R102 A4	R215 D2	R236 B1	R267 D2	R288 D2	R713 A4	R806 C2	R836 B1
C0205 A2	C0228 D1	C0255 A3	C206 B3	C228 C2	C260 D1	C728 A4	C812 A2	C834 B1	CE215 C2	CN208 C1	FB208 D4	FB715 A3	L201 A2	Q207 D1	R103 B4	R216 D1	R238 D4	R268 D2	R289 D1	R714 A4	R807 C2	R838 B2
C0206 A2	C0229 D1	C0601 C4	C207 D3	C229 C1	C261 D1	C729 A4	C813 B2	C835 A1	CE216 C2	CN701 A3	FB209 C1	FB801 A1	L202 A2	Q300 D3	R104 B4	R217 D1	R239 D3	R269 D1	R290 B1	R715 A4	R808 A1	R839 B2
C0207 A3	C0230 D1	C0602 C4	C208 A2	C230 D2	C600 C4	C730 A3	C816 B2	C836 A2	CE217 C2	CN702 A2	FB210 C1	FB802 A1	L203 A2	Q601 B4	R105 B4	R218 D2	R242 D1	R270 D2	R291 C1	R722 A4	R812 A1	R840 B2
C0208 A3	C0235 D2	C0603 C4	C209 B3	C231 D2	C601 C4	C731 A4	C817 B2	C837 A2	CE218 C2	CN801 A1	FB211 C1	FB803 B1	L204 D4	Q602 A3	R106 B4	R219 A3	R245 C1	R271 D1	R292 C1	R724 A4	R813 A1	R841 B2
C0209 A2	C0237 D4	C0604 C4	C210 C2	C232 C1	C602 C4	C732 A3	C818 A2	C838 B2	CE219 C2	CN802 B1	FB212 C1	IC101 A4	L205 B4	Q611 B4	R108 B4	R220 C4	R247 C1	R272 D2	R293 D2	R731 B3	R814 A2	R842 B2
C0210 B4	C0238 D4	C0606 C4	C211 D4	C233 D1	C603 B4	C735 C2	C819 B1	C839 B2	CE220 C2	CN803 B1	FB213 C1	IC201 D3	L206 B3	Q701 A4	R109 B4	R221 C4	R248 C1	R273 A4	R294 B2	R732 B3	R815 A2	R845 C2
C0211 A2	C0239 D4	C101 A4	C213 C1	C234 A4	C701 A3	C736 A3	C820 B2	C840 B2	CE801 D1	CO254 A2	FB214 C1	IC202 C4	L207 B4	Q702 A4	R201 C4	R222 D3	R249 C1	R274 A4	R296 D1	R733 B3	R816 A1	RA201 C2
C0212 C2	C0240 D4	C102 A4	C214 C2	C235 A4	C702 A3	C737 A3	C821 B2	C841 B2	CE802 D1	D201 A3	FB216 C2	IC203 D3	L701 B3	Q703 A4	R202 B4	R223 D3	R250 D3	R275 A4	R297 D1	R734 B3	R817 B2	RA202 C4
C0213 C4	C0241 D4	C103 B4	C215 A2	C236 A4	C703 A3	C738 C2	C822 B2	C843 B1	CE803 D1	D202 D1	FB217 A2	IC204 D2	L702 B3	Q704 A4	R203 D1	R224 D3	R251 C1	R276 D2	R298 D1	R737 A3	R820 A1	RA203 C2
C0214 C4	C0242 D4	C104 A4	C216 B2	C237 B3	C710 A3	C801 A1	C823 B2	C844 B2	CE804 D1	D204 A3	FB220 C1	IC205 A2	L703 B3	Q705 A3	R204 D1	R225 B4	R252 C1	R277 D2	R299 D1	R738 C2	R822 A2	XL101 A4
C0215 C2	C0243 D4	C105 A4	C217 A2	C238 B3	C711 A3	C802 A2	C824 B2	C846 C2	CE805 D1	D205 D3	FB222 C1	IC206 D4	L704 B3	Q706 A3	R205 C1	R227 D2	R253 C1	R278 D2	R801 D1	R748 A3	R823 A2	XL201 B3
C0216 D1	C0244 A2	C106 A4	C218 A4	C239 D1	C713 A3	C803 B1	C825 A2	C849 B2	CE806 D1	D600 D1	FB226 A2	IC207 D4	L707 A3	Q707 A3	R206 D2	R228 D1	R254 D4	R279 C1	R603 C4	R750 A4	R824 A2	XL202 D1
C0217 D1	C0245 A2	C107 B4	C219 A3	C242 B2	C716 B3	C804 A2	C826 B2	CE201 D1	CE807 D1	F201 B4	FB601 A3	IC208 D2	L801 A2	Q708 A3	R207 A3	R229 D1	R256 D1	R280 B3	R604 B4	R751 A4	R826 B1	XL203 C1
C0218 D1	C0246 A2	C108 A4	C220 A3	C243 D2	C717 A3	C805 B1	C827 B2	CE202 D1	CE808 D1	FB201 A2	FB602 C4	IC209 B3	L802 A2	Q801 A1	R208 D2	R230 C1	R257 D1	R281 D3	R605 B4	R752 A3	R827 B1	ZD209 B4
C0219 D1	C0247 A2	C109 A4	C221 B4	C250 D1	C718 B3	C806 B1	C828 B2	CE203 D1	CE809 D1	FB202 A2	FB603 C4	IC210 A3	L803 B2	Q802 A1	R209 B4	R231 C1	R258 D1	R282 A4	R606 C4	R801 C2	R829 B1	
C0220 D1	C0248 B4	C201 A2	C223 D1	C253 C1	C719 A3	C807 B1	C829 B2	CE204 D1	CN201 B4	FB203 A2	FB703 A3	IC801 B1	Q101 B4	Q803 A1	R210 C4	R232 C1	R259 D2	R283 A4	R702 A3	R802 A1	R831 B2	

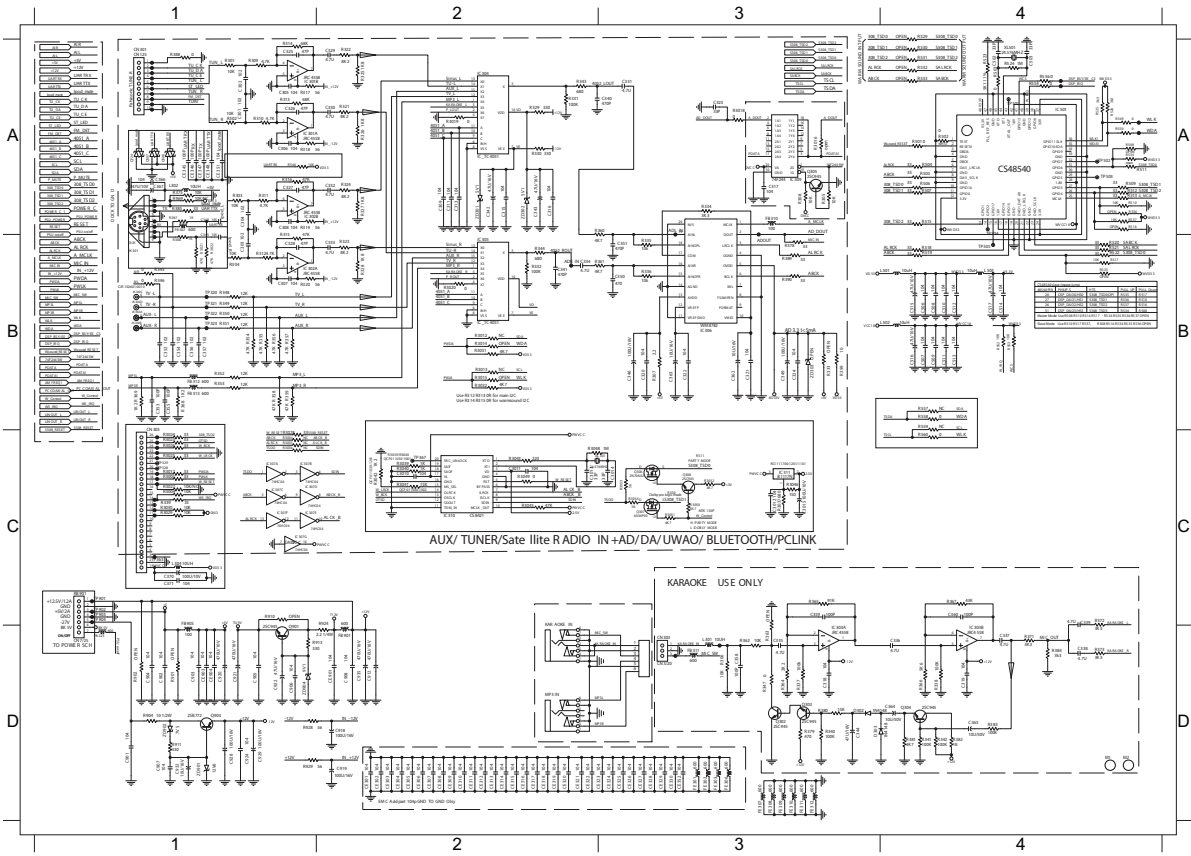


CIRCUIT DIAGRAM - part three

6 - 4

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C301	A1	C313	A2	C326	A1	C351	B3	C506	B4	C901	D1	C921	D1	CE306	D2	CE329	D3	FB901	D1	IC304	A2	Q305	A3	R302	A1	R3037	C3	R3051	C3	R318	A1	R335	B3	R353	B1	R389	B3	R560	C4	ZD301	A2		
C3010	C2	C315	A2	C329	A2	C352	B1	C507	B4	C902	D1	C922	D1	CE307	D2	CE330	D3	FB905	C1	IC305	B2	Q306	C3	R3020	B2	R3039	C2	R3052	C3	R321	A2	R336	B3	R354	B1	R390	B3	R709	A4	ZD302	A2		
C3011	C2	C316	A2	C330	A2	C353	B1	C508	B4	C903	D1	C924	D1	CE308	D2	CE352	D3	FE301	D3	IC306	B3	Q307	C3	R3023	C1	R3040	C2	R3053	C3	R322	A2	R339	C1	R355	B1	R399	B3	R710	A4	ZD901	D1		
C3012	C3	C317	A3	C331	A3	C354	B1	C509	B4	C904	D1	C928	D1	CE309	D2	CE901	D2	FE302	D3	IC307	C1	Q308	C3	R3024	C1	R3041	C2	R3054	C3	R325	A2	R343	A2	R356	B1	R523	A4	R711	A3	ZD902	D1		
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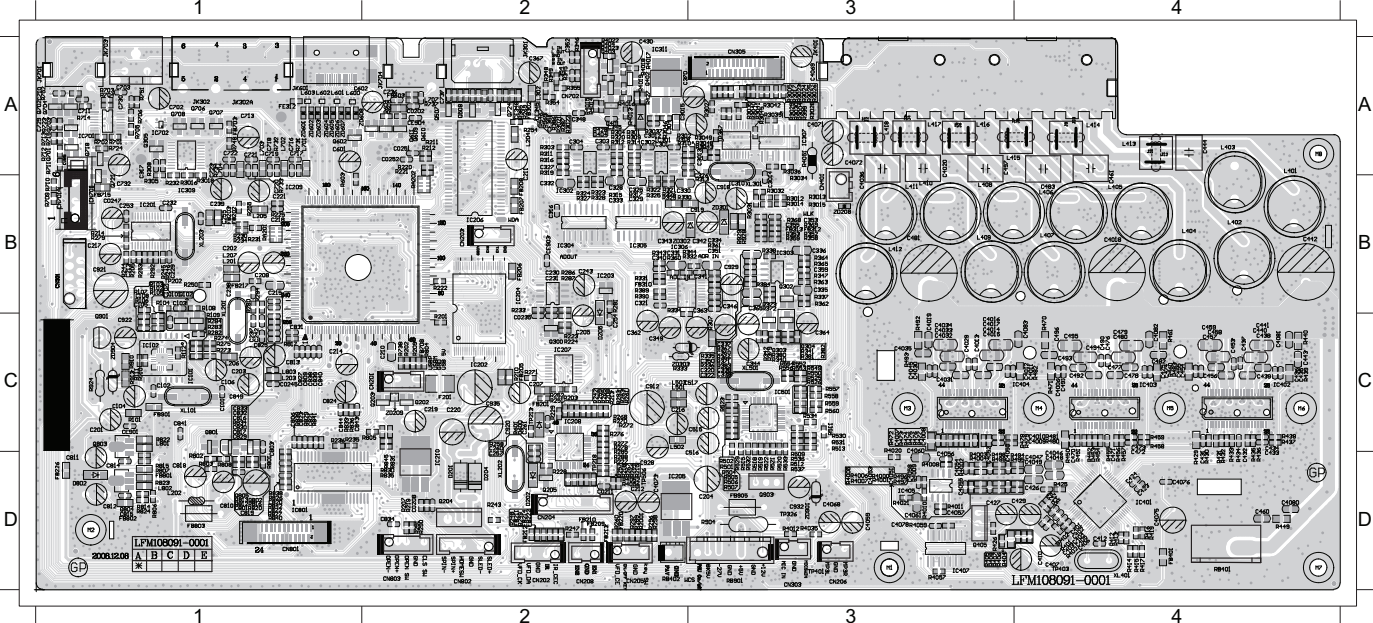


PCB LAYOUT - TOP VIEW

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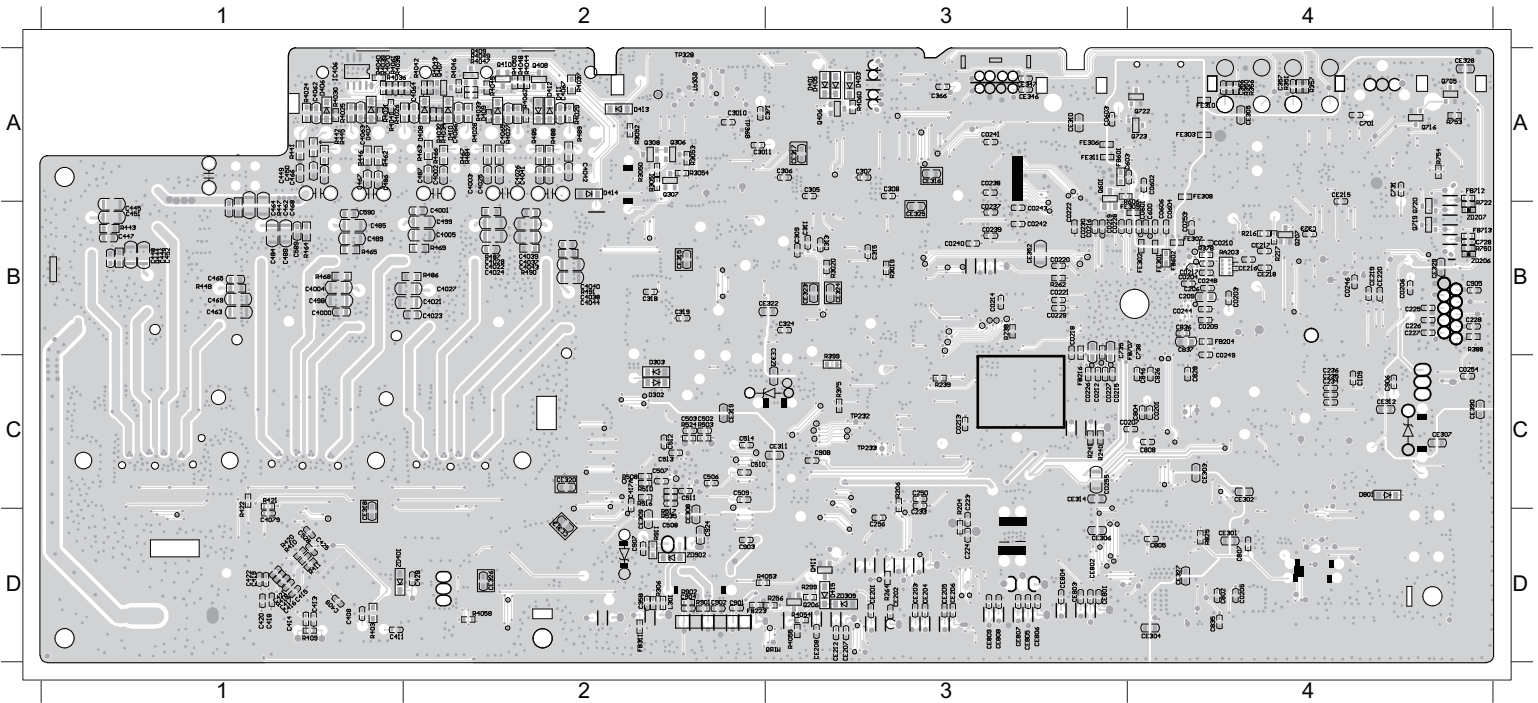
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PCB LAYOUT - BOTTOM VIEW

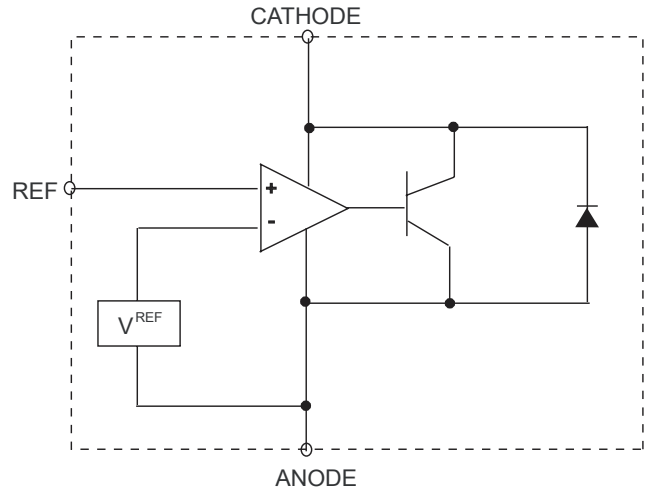
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POWER BOARD-main unit

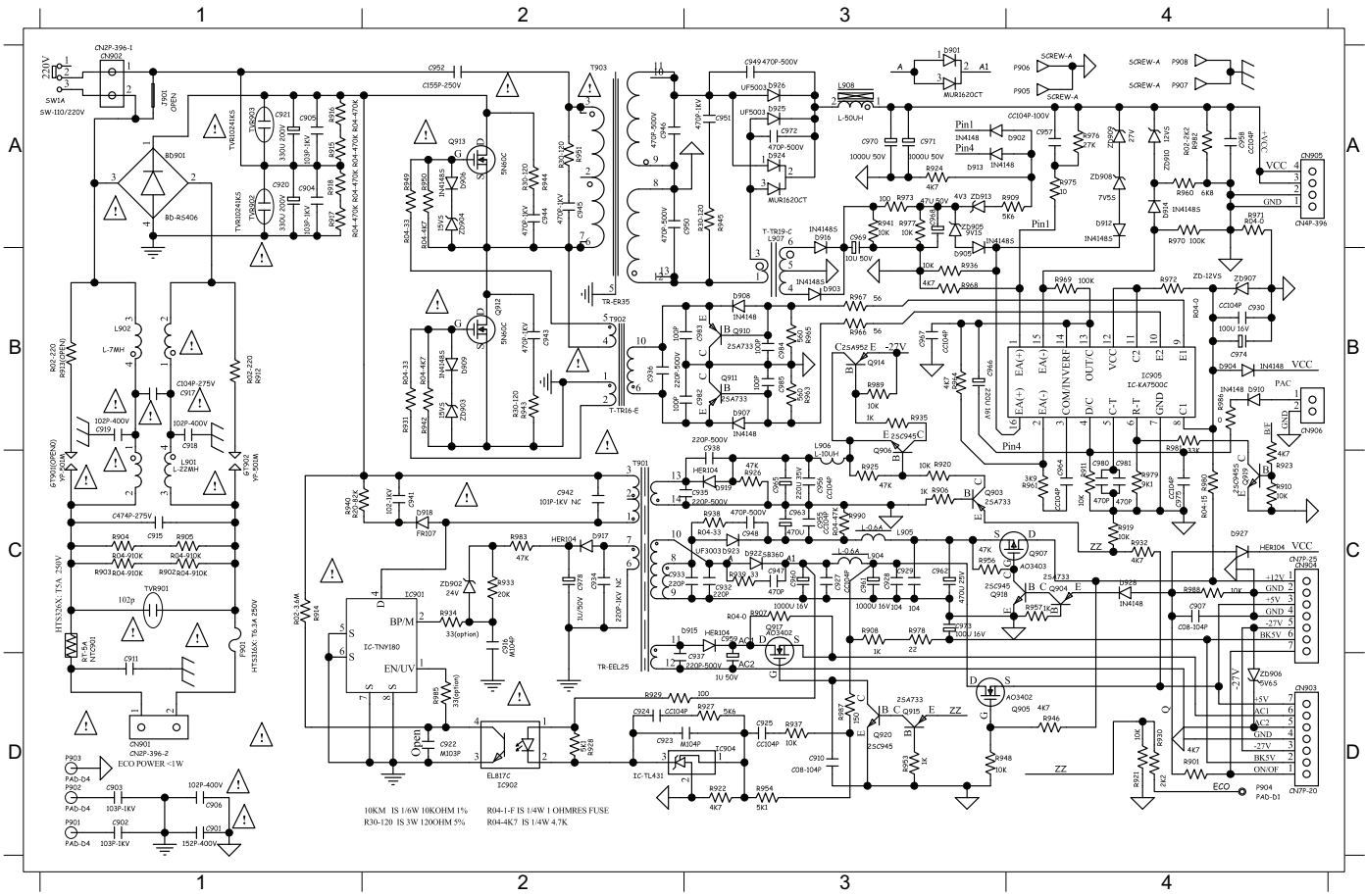
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CIRCUIT DIAGRAM

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 C906 D1 C920 A1 C930 B4 C945 A2 C955 C3 C963 C3 C972 A3 C983 B3 D902 A4 D912 A4 D923 C3 IC904D3 L908 A3 Q911 B3 R904 C1 R914 C1 R924 A3 R933 C2 R941 A3 R950 A2 R964 B3 R972 B4 R982 A4 T903 A2 ZD907B4
 C907 C4 C921 A1 C934 C2 C946 A2 C956 C3 C964 C4 C973 C3 C84 B3 D903 B3 D914 A4 D924 A3 IC905B4 NT9091C1 Q912 B2 R905 C1 R915 A1 R925 C3 R934 C2 R942 B2 R951 A2 R965 B3 R973 A3 R983 C2 TVR901C1 ZD908A4



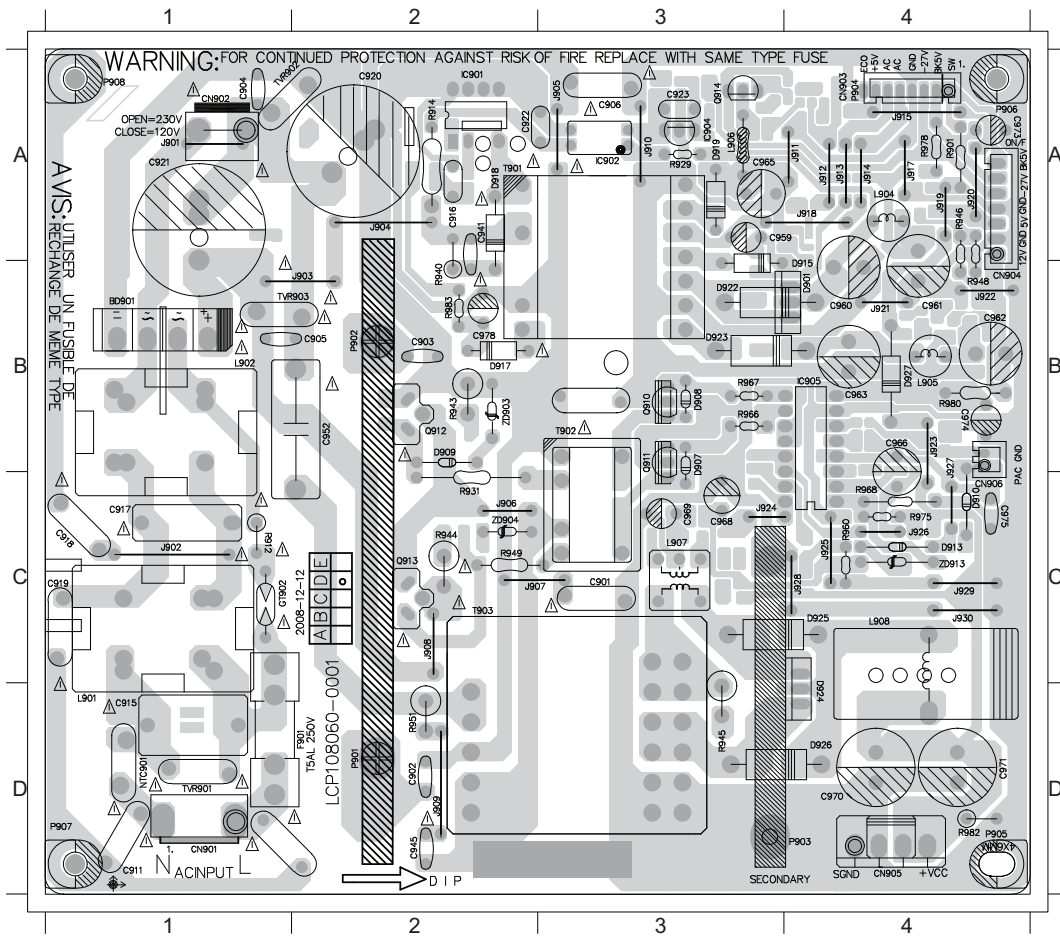
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PCB LAYOUT - TOP VIEW

7 - 3

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BD901B1 C906 A3 C920 A2 C959 A3 C966 B4 C975 C4 CN906C4 D917 B2 D927 B4 IC905 B4 J907 C2 J913 A4 J920 A4 J926 C4 L902 B1 NTC901D1 R901 A4 R943 B2 R951 D2 R978 A4 T903 C2 ZD913C4
 C901 C3 C915 D1 C921 A1 C960 B4 C968 C3 C978 B2 D907 B3 D918 A1 F901 D2 J902 C1 J908 C2 J914 A4 J921 B4 J927 B4 L904 A4 Q910 B3 R912 C1 R944 C2 R960 C4 R980 B4 TVR901D1
 C902 D2 C916 A2 C923 A3 C961 B4 C969 C3 CN901D1 D908 B3 D919 A3 GT902C1 J903 B1 J909 D2 J915 A4 J922 B4 J928 C4 L905 B4 Q911 B3 R914 A2 R945 D3 R966 B3 R982 D4 TVR902A1
 C903 B2 C917 C1 C941 A2 C962 B4 C971 D4 CN903A4 D909 B2 D922 B3 IC901 A2 J904 A2 J910 A3 J917 A4 J923 B4 J929 C4 L906 A3 Q912 B2 R929 A3 R946 A4 R967 B3 R983 B2 TVR903B1
 C904 A1 C918 C1 C945 D2 C963 B4 C973 A4 CN904B4 D910 C4 D923 B3 IC902 A3 J905 A3 J911 A4 J918 A4 J924 C3 J930 C4 L907 C3 Q913 C2 R931 C2 R948 B4 R968 C4 T901 A1 ZD903B2
 C905 B2 C919 C1 C952 B2 C965 A3 C974 B4 CN905D4 D915 B4 D924 B4 IC904 A3 J906 C2 J912 A4 J919 A4 J925 C4 L901 D4 L908 C4 Q914 A3 R940 B2 R949 C2 R975 C4 T902 B3 ZD904C2

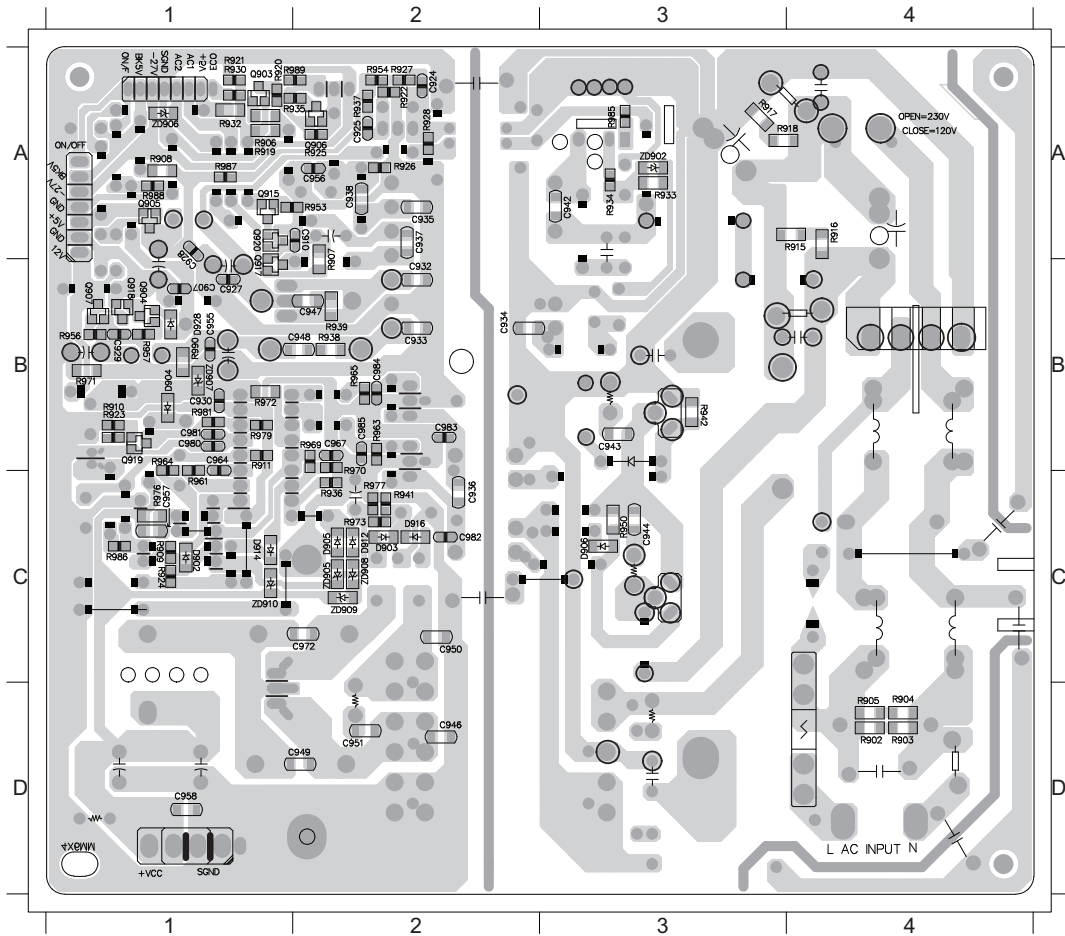


PCB LAYOUT - BOTTOM VIEW

7 - 4

7 - 4

C907 B1 C928 A1 C938 A2 C947 B2 C955 B1 C967 B2 C983 B2 D904 B1 D928 B1 Q007 B1 R905 D4 R911 B1 R919 A1 R926 A2 R934 A3 R939 B2 R956 B1 R965 B2 R973 C2 R986 C1 ZD907 B1
 C910 A2 C929 B1 C942 A3 C948 B2 C956 A2 C972 C2 C984 B2 D906 C3 Q903 A1 Q918 B1 R906 A1 R915 A3 R920 A1 R927 A2 R935 A1 R941 C2 R957 B1 R969 B2 R976 C1 R987 A1 ZD908 C2
 C924 A2 C930 B1 C943 B3 C949 D2 C957 C1 C960 B1 C985 B2 D912 C2 Q904 B1 R902 D4 R907 A2 R916 A4 R922 A2 R928 A2 R936 C2 R942 B3 R961 C1 R970 B2 R977 C2 R989 A1 ZD909 C2
 C925 A2 C934 B2 C944 C3 C950 C2 C958 D1 C981 B1 D902 C1 D914 C1 Q905 A1 R903 D4 R908 A1 R917 A3 R924 C1 R932 A1 R937 A2 R950 C3 R963 B2 R971 B1 R979 B1 ZD902 A3 ZD910 C1
 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-main unit

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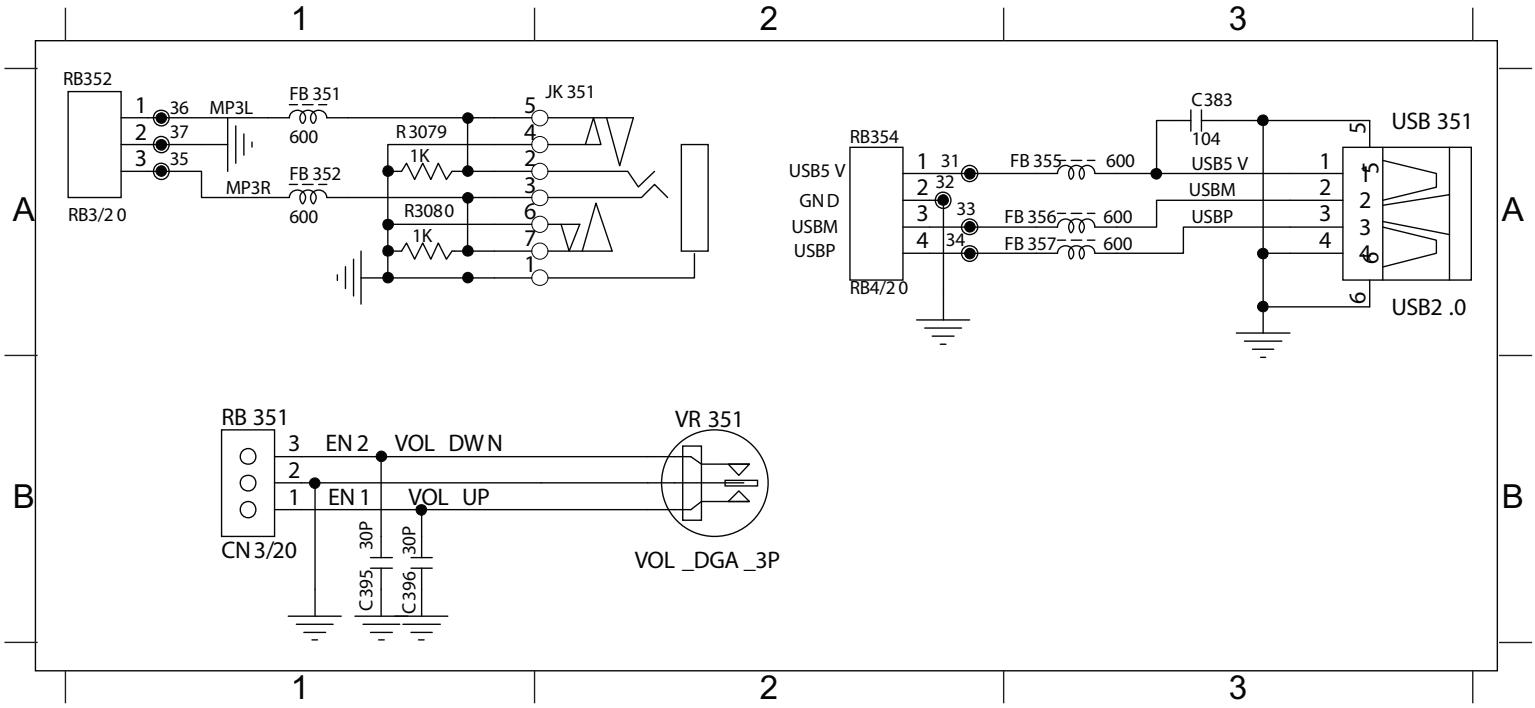
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PCB Layout Top & Bottom View.....	8-2

CIRCUIT DIAGRAM

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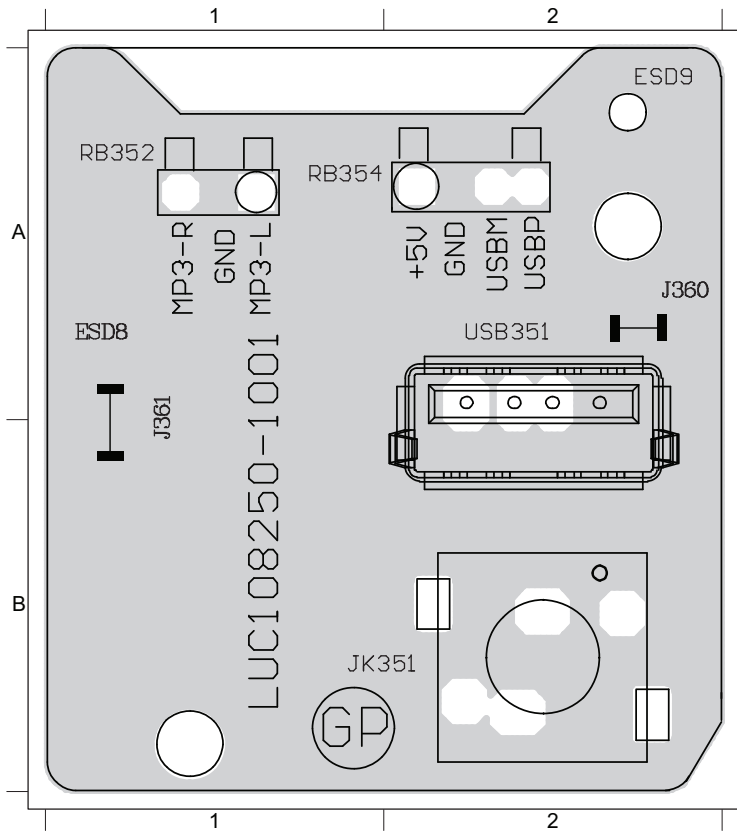
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PCB LAYOUT - TOP VIEW

8 - 3

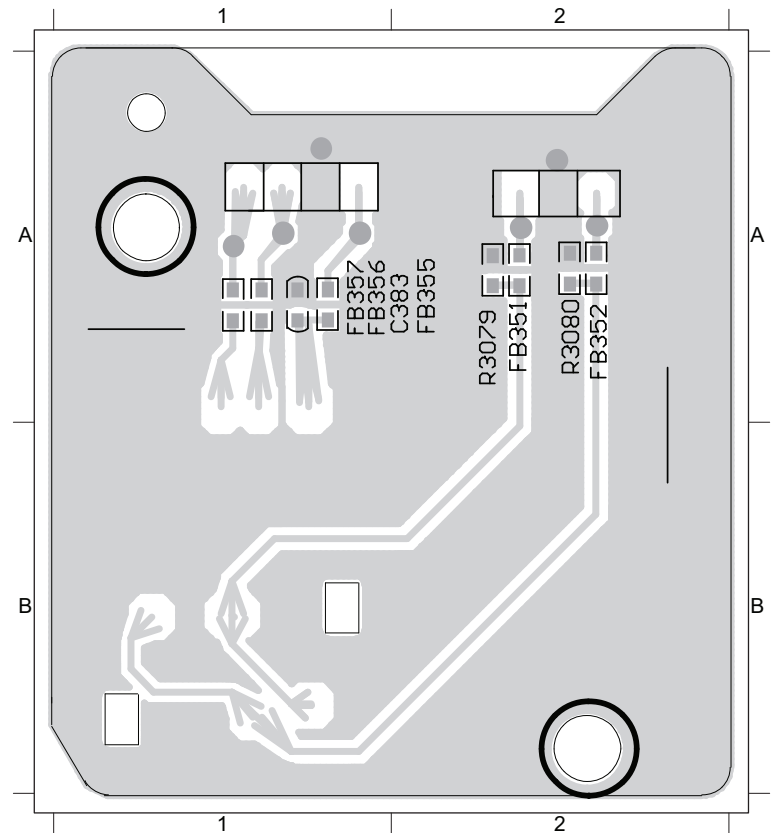
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PCB LAYOUT - BOTTOM VIEW

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SCART BOARD

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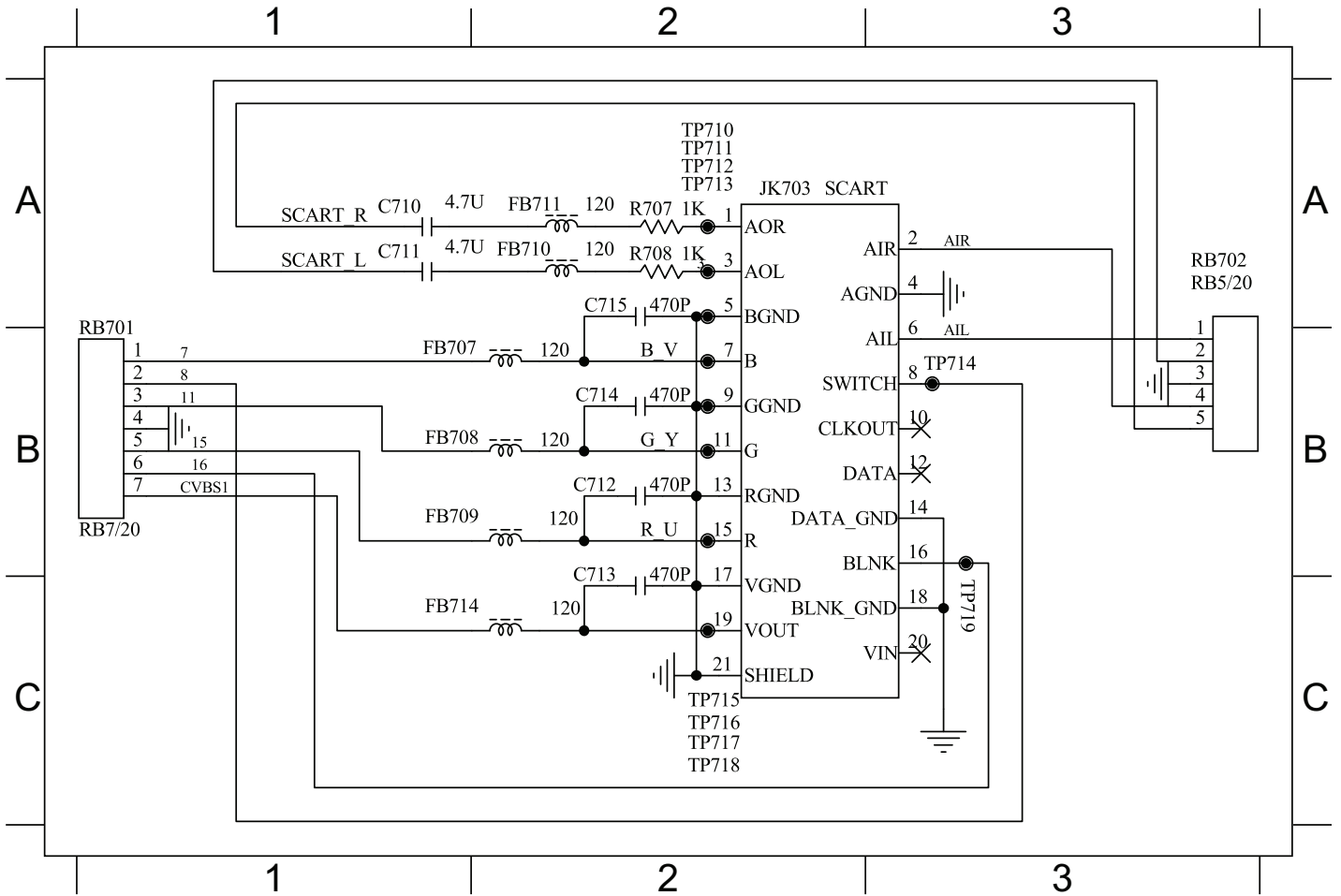
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PCB Layout Scart PCB View	9-3

CIRCUIT DIAGRAM

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9 - 2

C710 A1 C712 B2 C714 B2 FB707 B1 FB709 B1 FB711 A2 JK703 A2 R708 A2 RB702 A1
 C711 A1 C713 B2 C715 A2 FB708 B1 FB710 A2 FB714 C2 R707 A2 RB701 B1

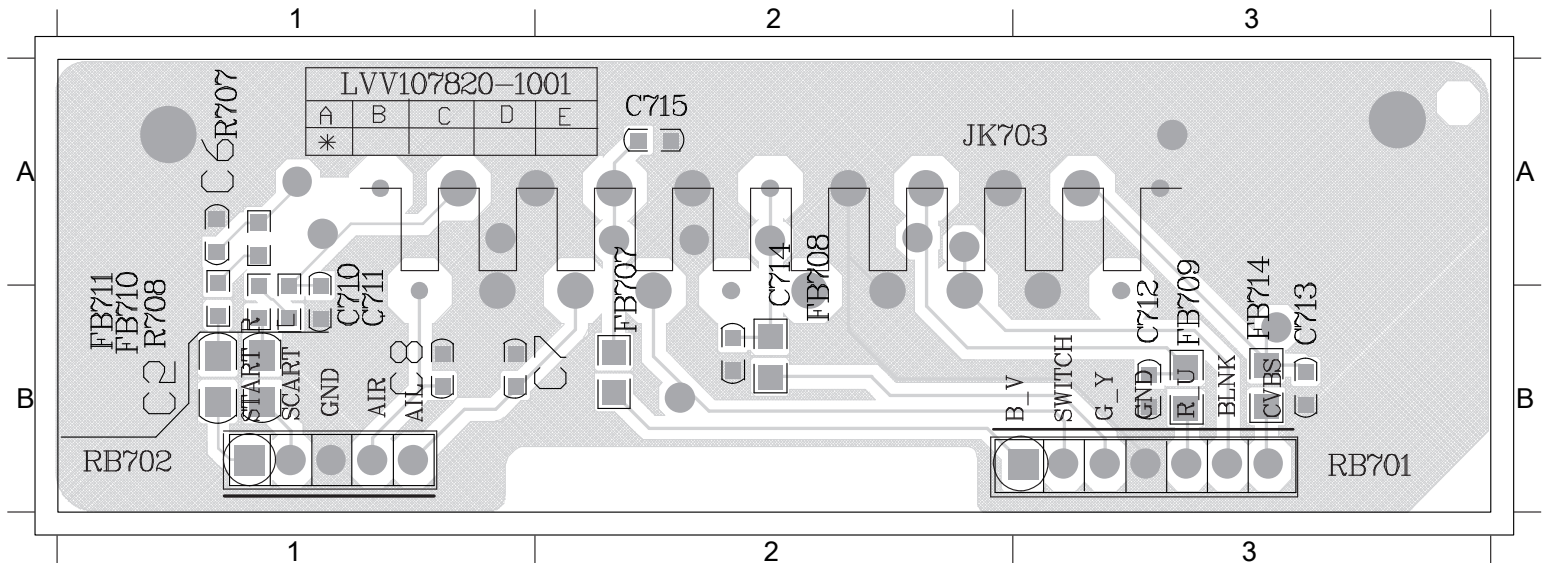


PCB LAYOUT - SCART PCB VIEW

9-3

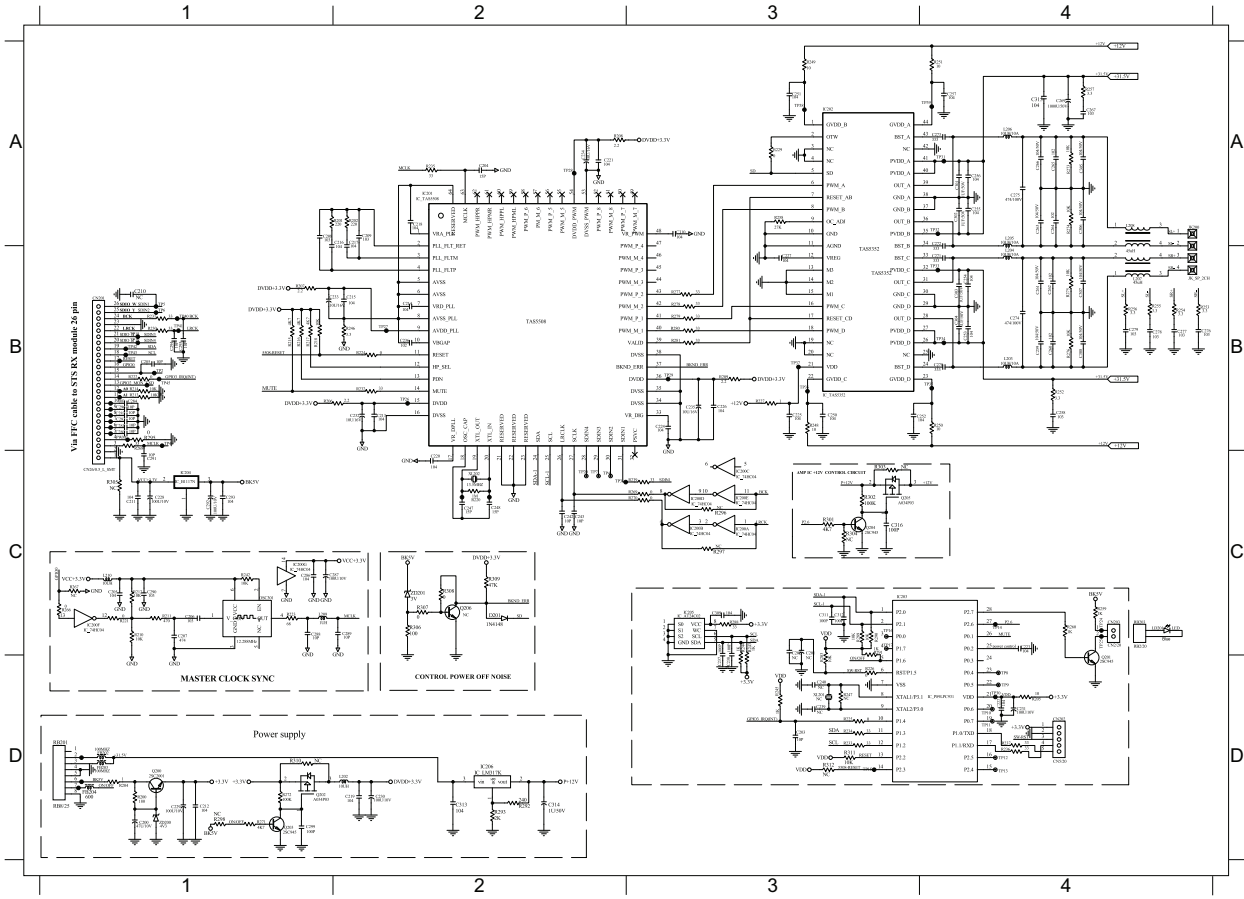
9-3

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



CIRCUIT DIAGRAM

C200	D1	C212	D1	C221	A2	C230	D2	C242	C2	C255	A4	C264	A4	C274	B4	C283	B1	C292	C1	C304	B4	C313	D2	FB203	D1	JK200	A4	OSC301	C1	R202	A2	R211	C1	R221	C1	R231	B1	R243	C3	R253	B4	R268	B1	R277	B3	R292	D2	R311	D3
C203	D3	C213	B2	C222	D4	C231	D4	C243	C2	C256	A4	C265	A4	C275	A4	C284	B1	C293	C1	C305	A4	C314	D2	FB204	D1	L202	D2	Q200	D1	R203	C3	R212	C1	R222	B1	R232	B2	R244	C3	R254	B4	R269	C3	R278	B3	R293	D2	RB201	D1
C204	A2	C214	B2	C223	C4	C232	B2	C247	C2	C257	A4	C266	A4	C276	B4	C285	B1	C294	B1	C306	A4	C315	A4	IC200	C1	L203	B4	Q201	D4	R204	D1	R213	B1	R223	C1	R233	D3	R245	D3	R255	B4	R270	C3	R279	B3	R295	B1	RB203	C4
C205	C1	C215	B2	C224	B3	C233	B2	C248	C2	C258	B4	C267	A4	C277	B4	C286	C1	C295	B1	C307	B4	C316	C3	IC201	A2	L204	B4	Q202	D1	R205	D4	R214	B1	R224	B2	R234	D3	R246	B2	R256	B4	R271	D1	R280	B3	R301	C3	XL202	C2
C206	C1	C216	A2	C225	B3	C234	A2	C250	B3	C259	B4	C269	A4	C278	B4	C287	C1	C296	B1	C308	B4	CN201	B1	IC202	A3	L205	A4	Q203	D1	R206	B1	R215	B1	R225	D3	R235	A2	R248	B3	R257	A4	R272	D1	R281	B3	R302	C3	ZD200	D1
C207	C1	C217	A2	C226	B3	C235	B3	C251	A3	C260	B4	C270	B4	C279	B4	C288	C1	C299	D1	C309	C3	CN202	D4	IC203	C3	L206	A4	Q204	C3	R207	B1	R216	B1	R226	D3	R236	D4	R249	A3	R258	A3	R273	A4	R288	C3	R306	C2	ZD201	C2
C208	A1	C218	A2	C227	B3	C236	B2	C252	B4	C261	B4	C271	B4	C280	B1	C289	C2	C301	A4	C310	A3	CN203	D4	IC204	C1	L209	C1	Q205	C3	R208	A2	R217	B1	R227	B3	R237	D4	R250	B4	R259	C4	R274	A4	R289	C3	R307	C2		
C209	A2	C219	D2	C228	C1	C237	D3	C253	B4	C262	B4	C272	A4	C281	B1	C290	C1	C302	A4	C311	C3	D201	C2	IC205	C3	L210	C1	R200	D1	R209	B3	R218	B1	R229	A3	R239	C3	R251	A4	R260	C4	R275	B4	R290	C3	R308	C2		
C211	C1	C220	C2	C229	D1	C238	D3	C254	B4	C263	A4	C273	A4	C282	B1	C291	C1	C303	B4	C312	C3	FB202	D1	IC206	D2	LD201	C4	R201	A2	R210	C1	R220	C2	R230	B1	R242	C1	R252	B4	R266	C1	R276	B4	R291	C3	R309	C2		

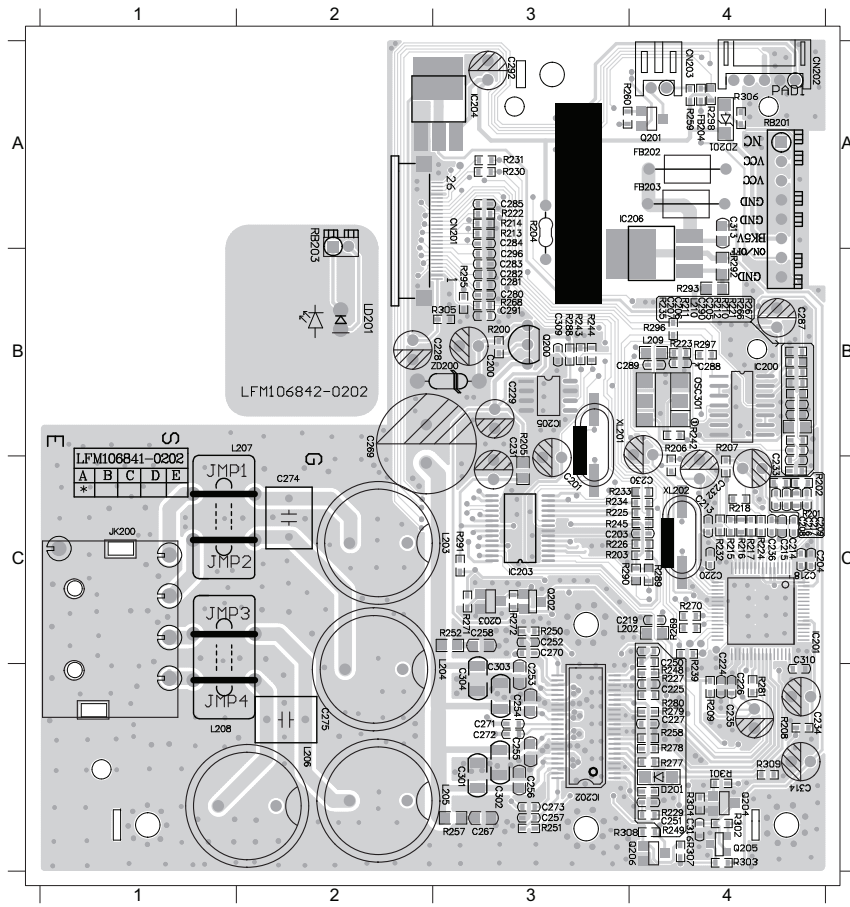


PCB LAYOUT - TOP VIEW

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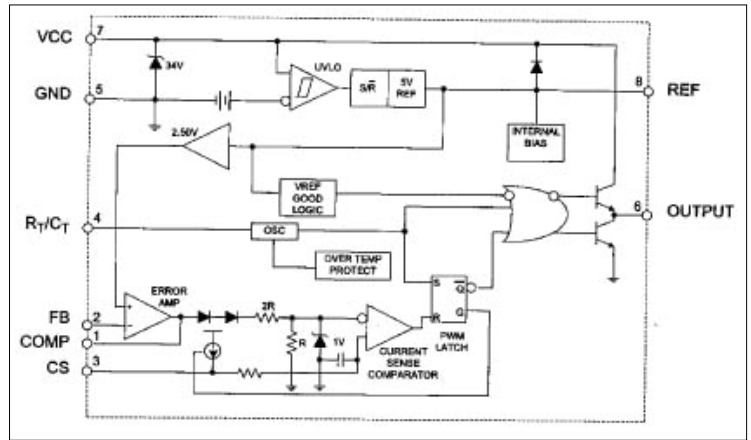
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 C203 C3 C214 C4 C225 D4 C233 C4 C254 D3 C271 D3 C283 B3 C292 A3 C313 A4 FB203 A4 IC206 A4 L204 D3 Q201 A4 R203 C3 R211 B4 R221 B4 R230 A3 R243 B3 R257 D3 R271 C3 R289 C4 R306 A4 ZD201 A4
 C204 C4 C215 C4 C226 D4 C234 D4 C255 D3 C272 D3 C284 A3 C296 B3 C314 D4 FB204 A4 JK200 C1 L205 D3 Q202 C3 R204 A3 R212 B1 R222 A3 R231 A3 R244 B3 R258 D4 R272 C3 R290 C3 R307 D4
 C205 B4 C216 C4 C227 D4 C235 D4 C256 D3 C273 D3 C285 A3 C301 D3 C316 D4 IC200 B4 JMP1 C1 L206 D2 Q203 C3 R205 B3 R213 A3 R223 B4 R232 C4 R245 C3 R259 A4 R277 D4 R291 C3 R308 D4
 C206 B4 C217 C4 C228 B3 C236 C4 C257 D3 C274 C2 C287 B4 C302 D3 CN201 A3 IC201 C4 JMP2 C1 L209 B4 Q204 D4 R206 B4 R214 A3 R224 C4 R233 C3 R248 D4 R260 A3 R278 D4 R292 B4 R309 D4
 C207 B4 C218 C4 C229 B3 C250 C4 C258 C3 C275 D2 C288 B1 C303 D3 CN202 A4 IC202 D3 JMP3 C1 L210 B4 Q205 D4 R207 B4 R215 C4 R225 C3 R234 C3 R249 D4 R266 B4 R279 D4 R293 B4 RB201 A4
 C208 C4 C219 C3 C230 C4 C251 D4 C267 D3 C280 B3 C289 B4 C304 D3 CN203 A4 IC203 C3 JMP4 D1 LD201 B2 R200 C3 R208 D4 R216 C4 R226 C3 R235 B4 R250 C3 R268 B3 R280 D4 R295 B3 RB203 A2
 C209 C4 C220 C1 C231 B3 C252 C3 C269 B2 C281 B3 C290 B4 C309 B3 D201 D4 IC204 A3 L202 C3 osc301 B4 R201 C4 R209 D4 R217 C4 R227 D4 R239 D4 R251 D3 R269 C4 R281 D4 R301 D4 XL202 C4



POWER BOARD-Wireless

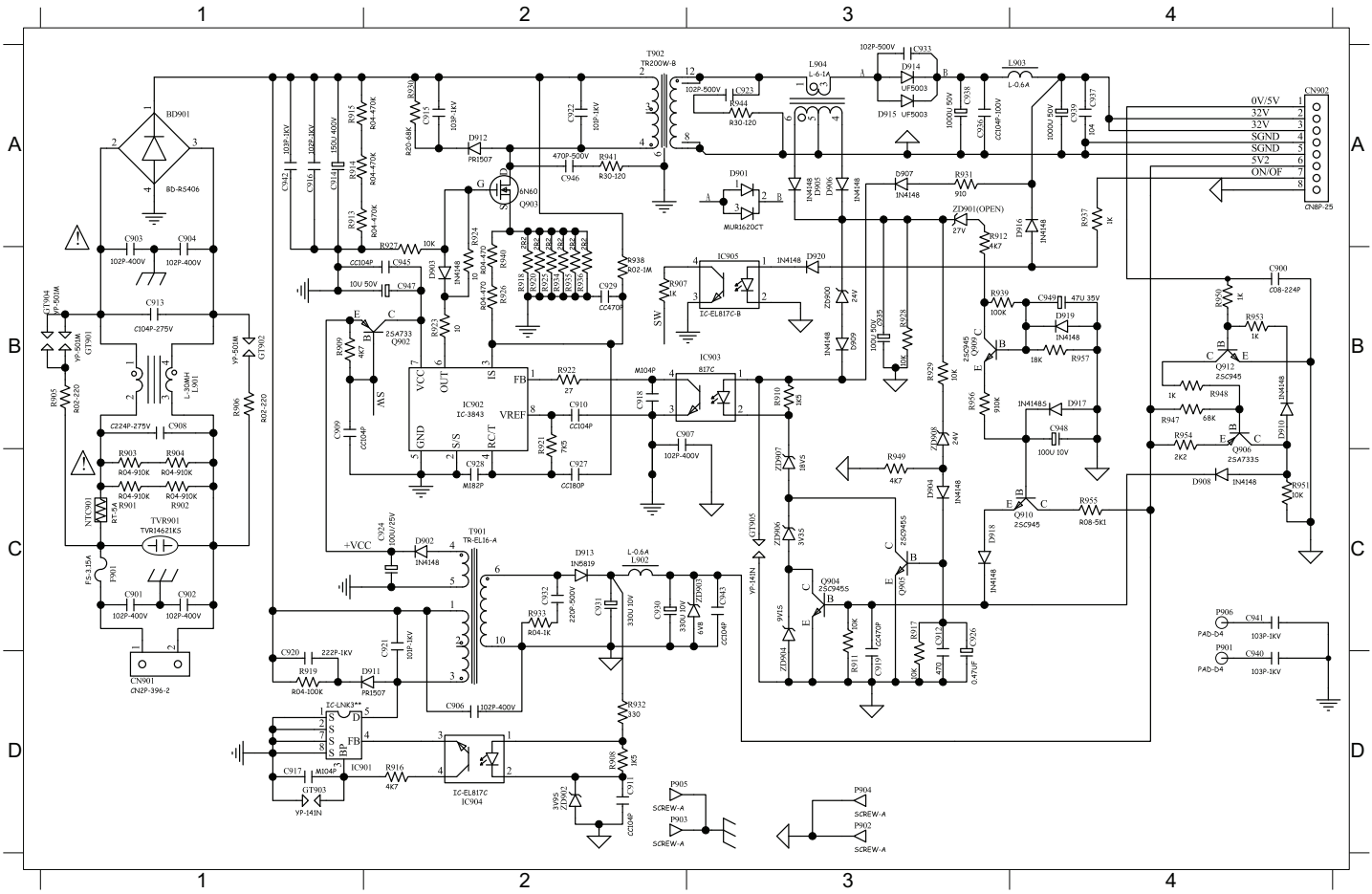
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CIRCUIT DIAGRAM

BD901 A1 C909 B1 C916 A1 C924 C2 C932 C2 C939 A4 C946 A2 D903 B2 D912 A2 IC901 D1 L902 C2 R901 C1 R908 D2 R916 D2 R923 B2 R930 A2 R936 B2 T901 C2 ZD904 C3
 C903 A1 C910 B2 C917 D1 C927 C2 C933 A3 C940 C4 C947 B2 D905 A3 D913 C2 IC902 B2 L903 A4 R902 C1 R909 B1 R918 B2 R924 A2 R931 A3 R937 A4 T902 A2 ZD906 C3
 C904 A1 C911 D2 C918 B2 C928 C2 C935 B3 C941 C4 CN901 D1 D906 A3 D916 A4 IC903 B3 L904 A3 R903 C1 R910 B3 R919 D1 R925 B2 R932 D2 R938 B2 TVR901 C1 ZD907 C3
 C906 D2 C913 B1 C920 C1 C929 B2 C936 A3 C942 A1 CN902 A4 D907 A3 D920 B3 IC904 D2 NTC901 C1 R904 C1 R913 A1 R920 B2 R926 B2 R933 C2 R940 B2 ZD900 B3
 C907 B2 C914 A1 C922 A2 C930 C2 C937 A4 C943 C3 D901 A3 D909 B3 F901 C1 IC905 B3 Q902 B2 R905 B1 R914 A1 R921 B2 R927 A2 R934 B2 R941 A2 ZD902 D2
 C908 B1 C915 A2 C923 A3 C931 C2 C938 A3 C945 B2 D902 C2 D911 D2 GT901 B1 L901 B1 Q903 A2 R907 B2 R915 A1 R922 B2 R928 B3 R935 B2 R944 A3 ZD903 C3

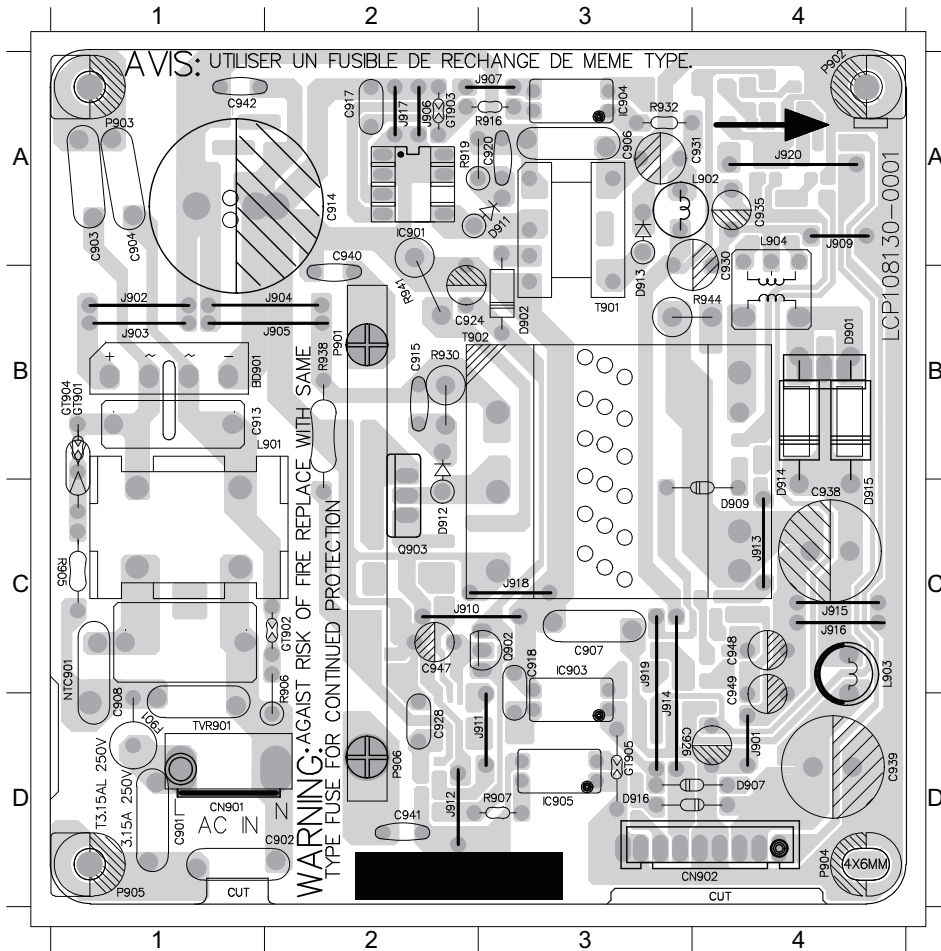


PCB LAYOUT - TOP VIEW

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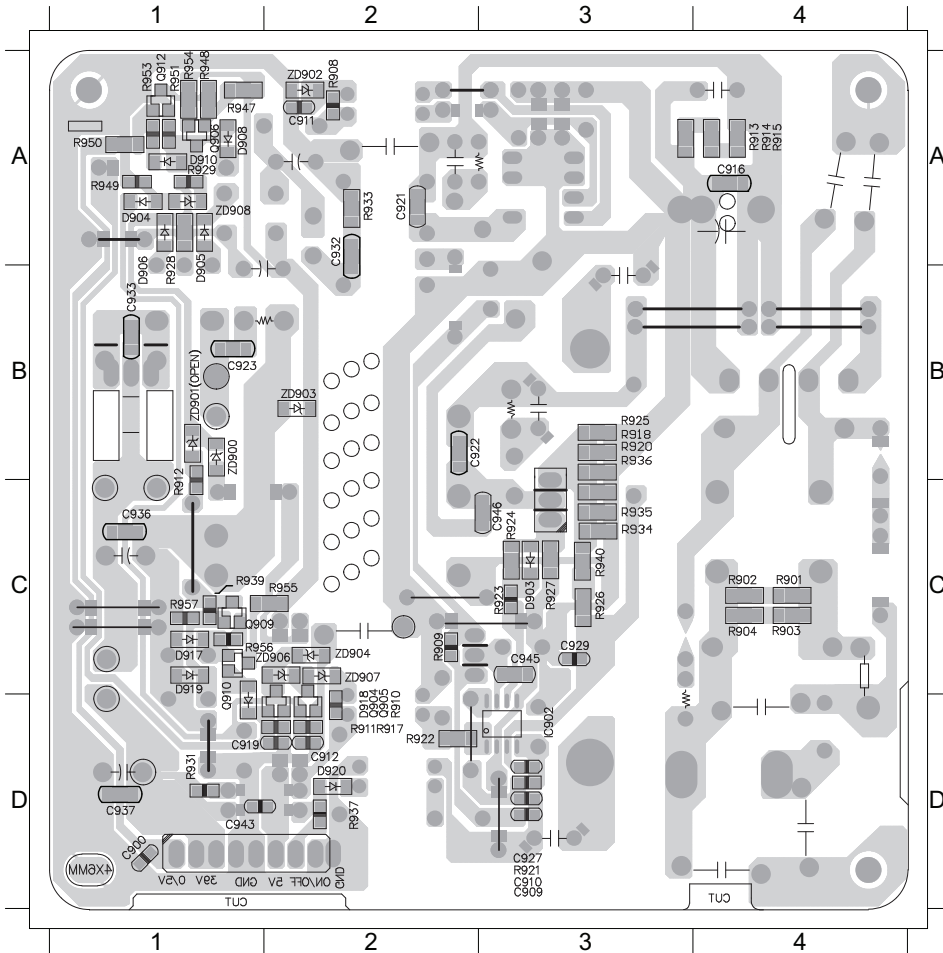
11 - 3

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C903	A1	C908	D1	C917	A2	C928	D2	C938	C4	C942	A1	D901	B4	D911	A3	F901	D1	IC904	A3	J903	B1	J907	A3	J912	D2	J917	A2	L902	A4	Q902	C3	R919	A2	R941	B2	TVR901	D1
C904	A1	C913	B1	C918	C3	C930	A4	C939	D4	C947	C2	D902	B3	D912	C2	GT901	B1	IC905	D3	J904	B2	J909	A4	J914	D3	J918	C3	L903	C4	Q903	C2	R930	B2	R944	B4		
C906	A3	C914	A2	C920	A3	C931	A4	C940	A2	CN901	D1	D907	D4	D913	B3	IC901	A2	J901	D4	J905	B2	J910	C2	J915	C4	J919	C3	L904	A4	R905	C1	R932	A3	T901	B3		

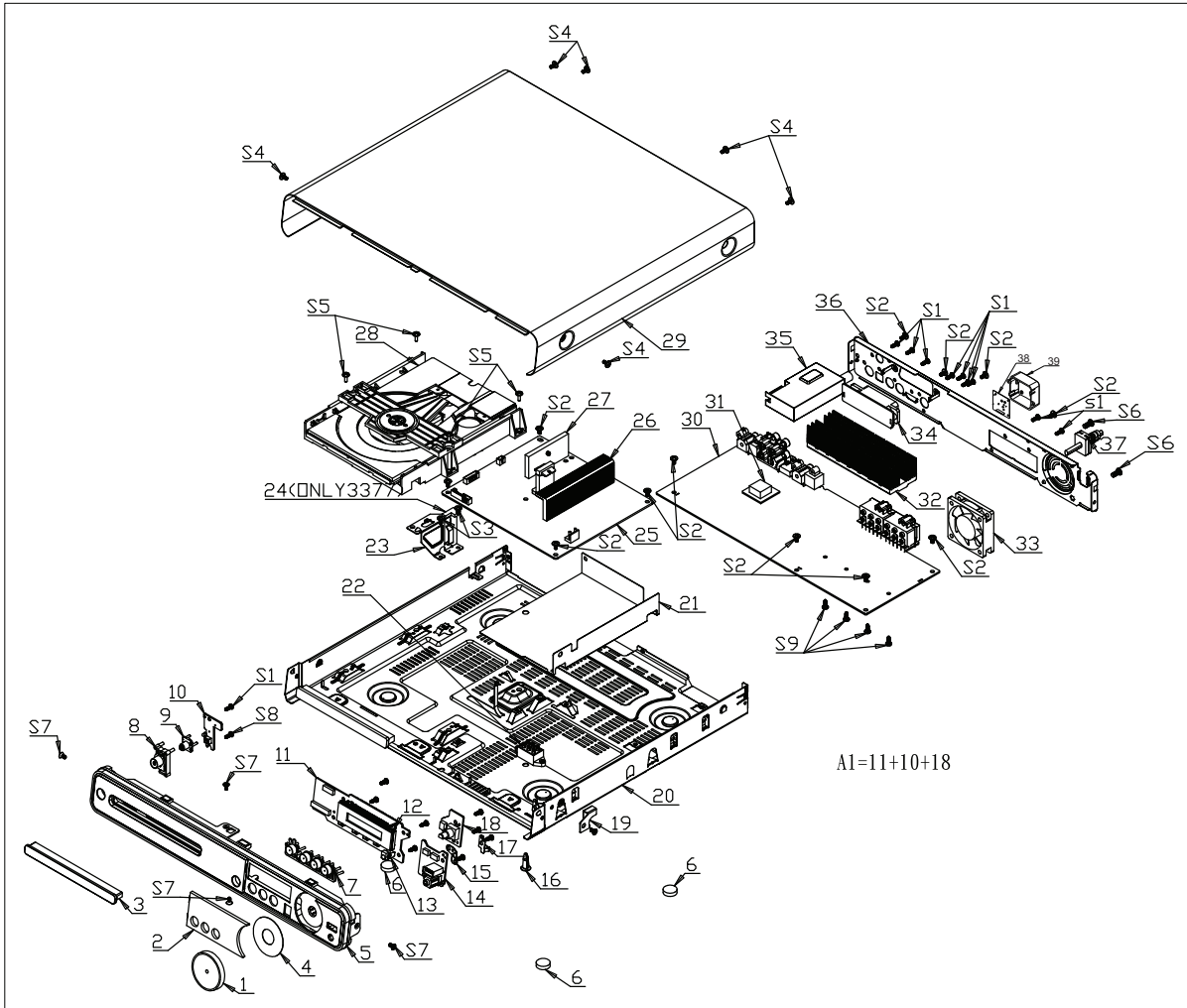


PCB LAYOUT - BOTTOM VIEW

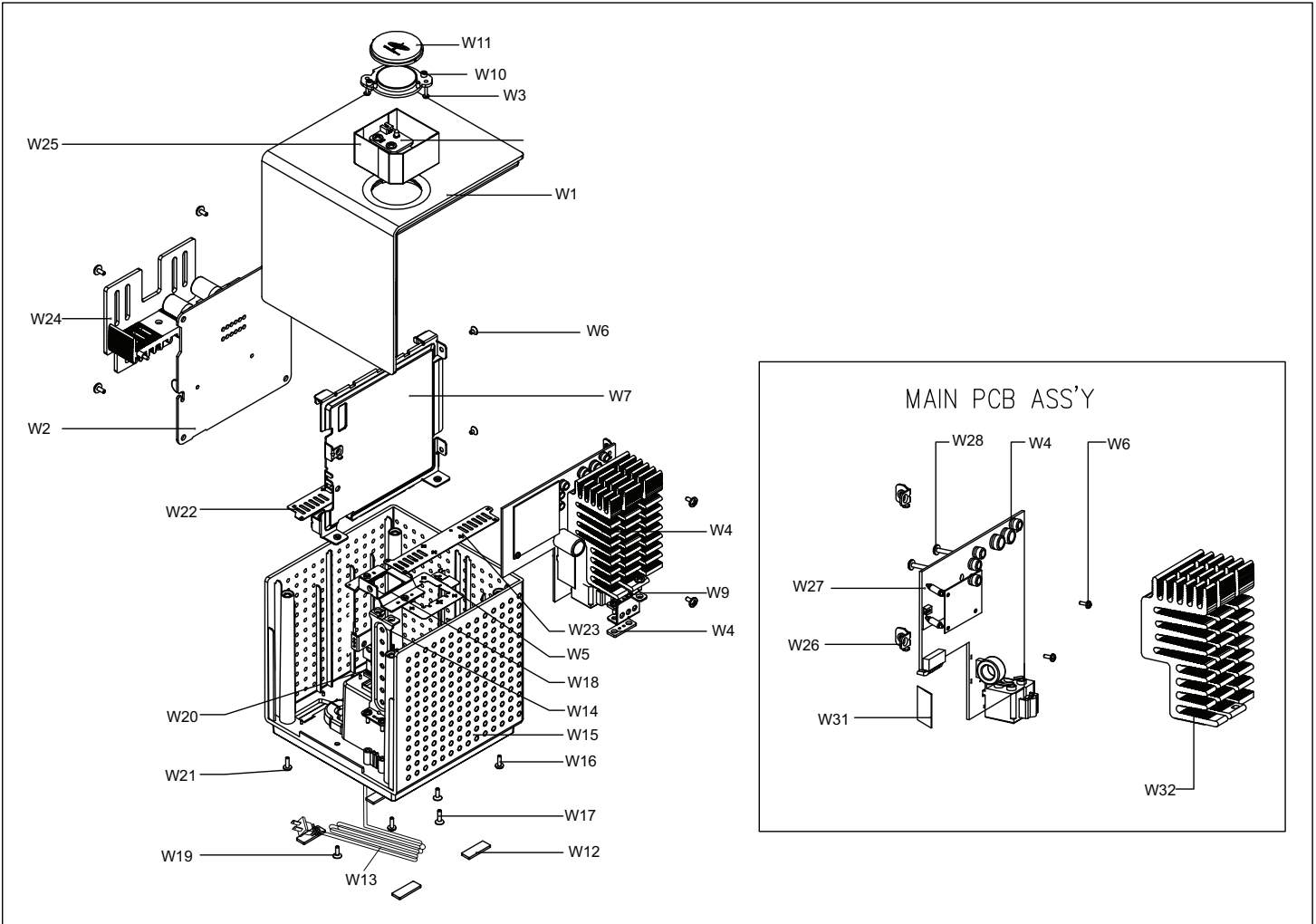
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C910	D3	C923	B1	C933	B1	C945	C3	D906	A1	R902	C4	R909	C2	R915	A4	R921	D3	R925	B3	R931	D1	R936	B3	ZD902	A2	ZD907	C2
C911	A2	C927	D3	C936	C1	C946	C3	D920	D2	R903	C4	R910	C2	R916	A3	R922	D2	R926	C3	R933	A2	R937	D2	ZD903	B2		
C916	A4	C929	C3	C937	D1	D903	C3	IC902	D3	R904	C4	R913	A4	R918	B3	R923	C3	R927	C3	R934	C3	R940	C3	ZD904	C2		



Mechanical Exploded View-Main Unit



Mechanical Exploded View-Wireless



PARTS LIST

Loc.	12NC	Description
MAIN UNIT		
1	996510021087	VOLUME KNOB
2	996510021093	DISPLAY LENS
3	996510022471	DVD DOOR
5	996510021057	FRONT PANEL
6	996510021942	RUBBER FOOT D14xH4.2
7	996510021068	FUNCTION KNOB
8	996510021069	STANDBY KNOB
9	996510021064	STANDBY LENS
14	996510021066	MP3 IN PCB ASSY
20	996510021945	BOTTOM CABINET T0.6mm
25	996510021073	POWER PCB ASSY 850W
28	996510021248	DVD LOADER
29	996510022469	TOP COVER SECC
30	996510022474	MAIN PCB ASSY
33	996510021076	FAN DC12V 0.55A
34	996510021058	SCART PCB ASSY
35	996510018486	TUNER PACK KST-MT004FS1-6D
36	996510022501	REAR PANEL
37	△ 996510001638	POWER CORD
38	996510022419	OEM MODULE DWAM80_D2D STS
39	996510021589	WIRELESS COVER
A1	996510021089	DISP+LED+VOL PCB ASSY
FM	996510008251	FM ANT
HSCREW	996510017273	SCREW
JK351	996510004129	KARAOKE JACK D3.6MM 7P
RC	996510021067	REMOTE CONTROL 39 KEYS
Scart	996510001650	SCART CABL
V1	996510007429	FFC CBL 10P100mmUL20798 P=1
V2	996510021565	FFC CABLE 26P 80mm UL20706

LOUDSPEAKER SYSTEM

RFC	996510001599	RUBBER FOOT - CENTER SPK
RFF	996510001601	RUBBER FOOT - REAR SPK
RFR	996510012224	RUBBER FOOT - REAR
RFS	996510010854	RUBBER FOOT - SUB
SPKC	996510021046	SPEAKER BOX - REAR RIGHT
SPKFL	996510021051	SPEAKER BOX - FRONT LEFT
SPKFR	996510021047	SPEAKER BOX - FRONT RIGHT
SPKRL	996510021048	SPEAKER BOX - CENTER
SPKRR	996510021052	SPEAKER BOX - REAR LEFT
SUBW	996510021049	SPEAKER BOX - SUBWOOFER

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

PARTS LIST

Loc.	12NC	Description
WIRELESS UNIT		
W1	996510006941	GP FRONT CABINET FOR RCV ABS
W10	996520031043	LED LENS TRANSPARENT
W11	996520031044	LENS BASE PMMA
W12	996510005060	RUBBER FOOT
W13	△ 994000005444	LINE CORD 2P 1500MM
W14	996510022419	WIRELESS MODULE DWAM80_D2D STS
W2	996510021574	SMPS PCB ASSY 125W
W4	996510021593	MAIN+LED+HEAT SINK 2
W5	996510021599	BOTTOM HOLDER
W8	△ 996510022472	AC SOCKET
WIRR	996510022473	WIRELESS RECEIVER ASSY
WV1	996510021616	FFC CABLE 26P 50mm UL20706

REVISION LIST

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Version 1.0
*Initial release