3139 785 35790

Soundbar Home Theater System

HTS7111/12

Service
Service
Service

Service Manual

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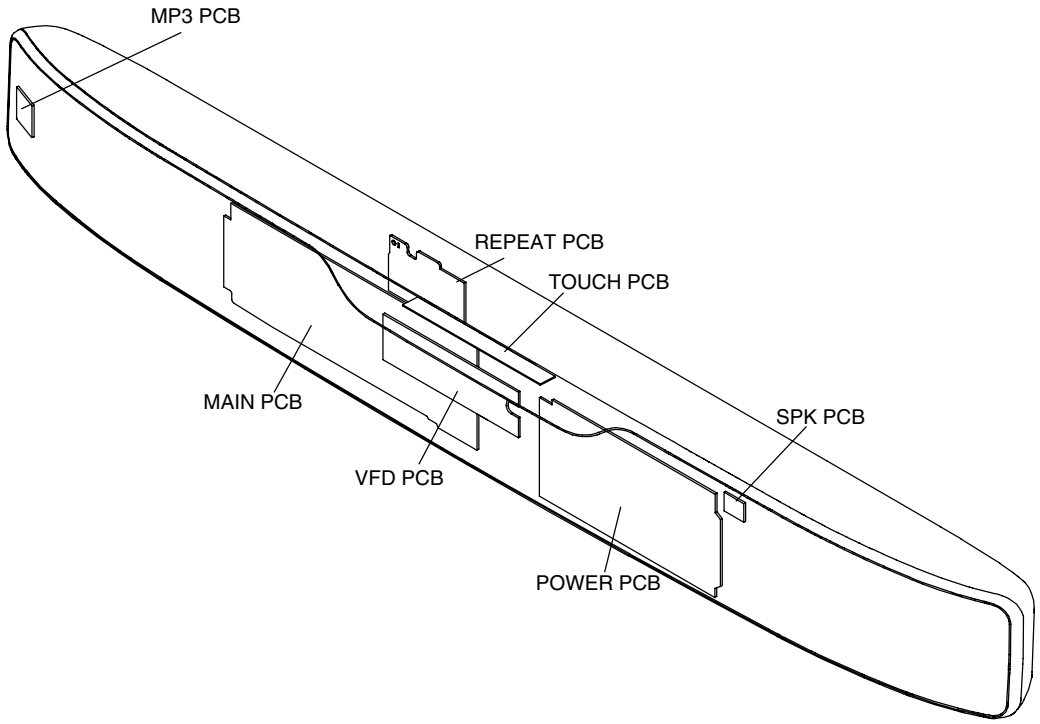
Published by RY-HF1123 AVM Service Audio Printed in The Netherlands Subject to modification

GB 3139 785 35790

Version 1.0

PHILIPS

LOCATION OF PCB BOARDS



VERSION VARIATION:

Type/Versions / Features	HTS7111 /12
Output Power - 300W	X
Voltage (110-240V)	X
Music iLink	X

REPAIR SCENARIO MATRIX:

Type/Versions / Board in used	HTS7111 /12
MAIN+HDMI+VFD+MP3+SPK Board	C
Touch Board	C
Power Board	C

*Bd = Board Level Replacement
*C = Component Level Repair

SPECIFICATIONS

Amplifier

Total output power:
Europe and Asia .....300W RMS (30%THD)
Latin America.....224W RMS (10% THD)
Frequency response.....20 Hz-20 kHz / ±3 dB
Signal-to-noise ratio..... > 65 dB (CCIR) /(A-weighted)
Input sensitivity:
AUX ..... 250 mV
Music iLink.....50 mV

Audio

S/PDIF Digital audio input:
Coaxial..... IEC 60958-3
Optical ..... TOSLINK

Main Unit

Power supply.....110-240 V~, 50-60 Hz
Power consumption.....55 W
Standby power consumption ..... ≤ 1 W
Center speaker:
Speaker impedance..... 6 ohm
Speaker drivers .....2 x 64 mm (2.5”) full range
Frequency response: .....150 Hz-20 kHz
Front/Rear speakers:
Speaker impedance..... 3 ohm
Speaker drivers .....4 x 64 mm (2.5”) full range
Frequency response.....150 Hz-20 kHz
Dimensions (WxHxD): .....945 x 108 x 86 mm
Weight .....3.82 kg

Subwoofer

Output power .....80W RMS (30% THD)
Impedance..... 6 ohm
Speaker drivers .....165 mm (6.5”) woofer
Frequency response ..... 20 Hz-150 Hz
Dimensions (WxHxD) .....192 x 447 x 253mm
Weight .....4.4 kg
Cable length ..... 3 m

Wall Mount

Dimensions (WxHxD) .....80 x 80 x 15mm
Weight ..... 0.08 kg/each

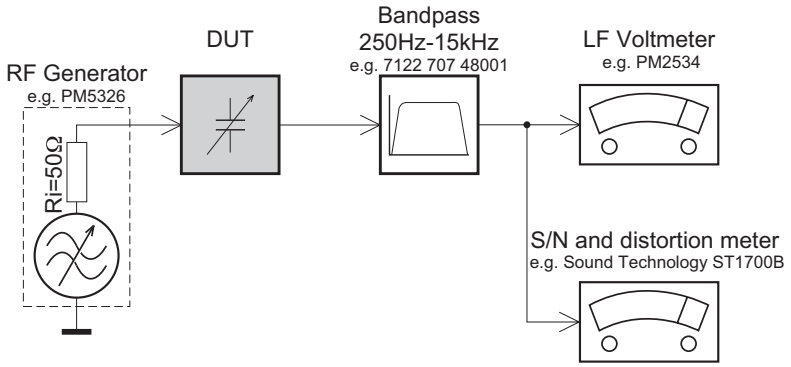
Remote control batteries

2 x AAA-R03-1.5 V

Specifications subject to change without prior notice.

MEASUREMENT SETUP

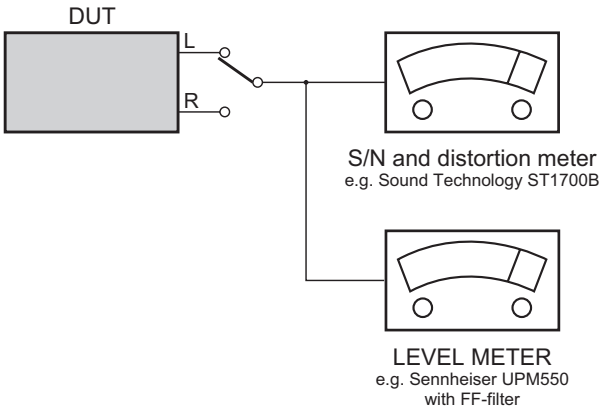
Tuner FM



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

CD

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



SERVICE AIDS

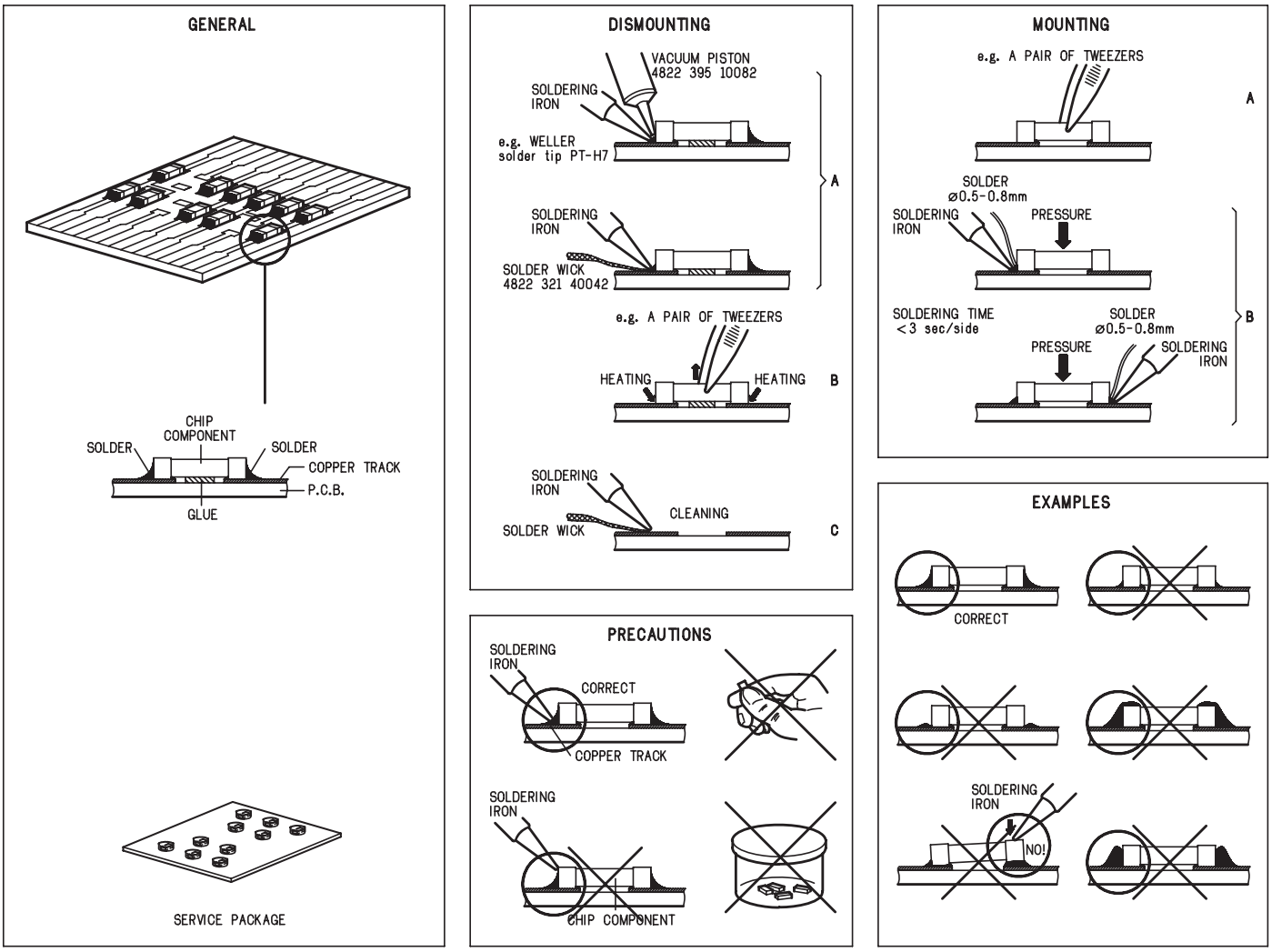
Service Tools:

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



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 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 kan 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 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 ⚠ .

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 ⚠ .

F

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

Less composants de sécurité sont marqués ⚠ .

D

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

Sicherheitsbauteile sind durch das Symbol ⚠ 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 ⚠ .

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 suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

DK Advarse !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsaettelse 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 (leaded/ lead-free). So best to always use SAC305 and the higher temperatures belong to this.

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

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

– Always use the 12nc-recognizable soldering temperature profile of the specific BGA (for de-soldering always use the lead-free temperature profile, in case of doubt)

– Lead free BGA-ICs will be delivered in so-called 'dry-packaging' (sealed pack including a silica gel pack) to protect the IC against moisture. After opening, dependent of MSL-level seen on indicator-label in the bag, the BGA-IC possibly still has to be baked dry. (MSL=Moisture Sensitivity Level). This will be communicated via AYS-website.
  Do not re-use BGAs at all.

- For sets produced before 1.1.2005 (except products of 2004), containing leaded solder-alloy and components, all needed spare-parts will be available till the end of the service-period. For repair of such sets nothing changes.
- On our website **www.atyourservice.ce.Philips.com** you find more information to:

  - BGA-de-/soldering (+ baking instructions)
  - Heating-profiles of BGAs and other ICs used in Philips-sets

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

  For additional questions please contact your local repair-helpdesk.

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REPAIR INSTRUCTIONS

MAIN UNIT REPAIR CHART

- A — All functions are not working
- B — All functions have no sound
- C — Aux In has no sound
- D — MP3 In has no sound
- E — coaxial /optical input has no sound
- F — IPOD In have no sound
- G — HDMI Repeater In/out has no Video or sound

A

All functions are not working

- Check all cables of system are loose or bad insert — YES → Re-insert and fix the cable
- NO → Standby led of panel whether is light — NO → check output of BK5V on the top of power board
- YES → Check IC101 of main board and their conjoint parts

B

All functions have no sound

- check pin1~pin5 of CN501(on the top of main pcb) whether are +26.5V R5001 whether is+12V — NO → Check switch power and the conjoint parts
- YES → check pin1of C609 (on the top of main pcb) whether is +3.3V — NO → check IC501 of main pcb and their conjoint parts whether are ok
- YES → check IC502, IC503 of MAIN PCB and their conjoint parts whether are OK

C

Aux In has no sound

- check pin3 and pin13 of IC301(on the top of main pcb) output whether are ok — NO → check pin7and pin16 of IC301 (on the top of main pcb) output whether is +/-5V and their conjoint parts whether are OK
- YES → check 3 and pin4 of IC303(on the top of main pcb)output whether are 5V and 3.3V — NO → check IC303 and FB102 of main pcb whether are OK
- YES → check IC303 of main pcb and their conjoint parts whether are OK

D

MP3 In has no sound

- check MP3 music output is ok check mp3 jack connect is ok check mp3 jack cable and CN301 connect of mian pcb is ok — NO → Keep CN301 of main board has Music input
- YES → check pin2 and pin15 of IC301 on the top of main pcb whether have music input — NO → check from CN301 to IC301 conjoint parts
- YES → check IC301 of main pcb is OK

E

coaxial /optical input has no sound

- check C330 is ok check R332 is 3.3V, check C331 is ok — NO → check their conjoint parts of JK304and JK303
- YES → check pin3 /9/ 22 of IC302 (on the top of main pcb) output whether are all 3.3V — NO → check their conjoints part of L302 L303
- YES → check IC302 of main pcb and their conjoint parts

F

IPOD In have no sound

- Check Ipod Dock output signal is ok Check Ipod jack connect is ok — NO → Please keep having music input signal, Check JK305 is OK
- YES → Check Pin1/7of IC304 (on the topof main pcb) have music output. — NO → check JK305 to IC304 and their conjoint parts whether are ok
- YES → Check IC301 of main pcb is OK

G

HDMI Repeater In/out has no Video or sound

- Check Pin2 of IC603 is1.8V Pin2 of IC604 IS 3.3V of Repeater pcb — NO → Check Pin1/3 of CN601 Repeater PCB is BK5V/+5V and their conjoint part whether is OK
- YES → Check IC601 of Repeater pcb and conjoint part FB106 FB604 FB605 FB608 FB609 whether is 1.8V FB607 whether is 3.3V — NO → Check IC601 of Repeater pcb whether is OK
- YES → **Check Repeater PCB IC601 and their conjoint art whether OK**

DISASSEMBLY INSTRUCTIONS

Dismantling of the Rear Cover

1) Loosen 13 screws “A” to move the Rear Cover as shown in figure 1.

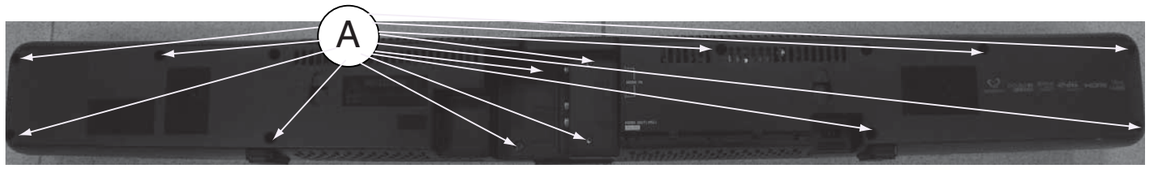


Figure 1

Dismantling of the SPK Board

1) Loosen 2 screws “B” to remove the SPK Board as shown in figure 2.

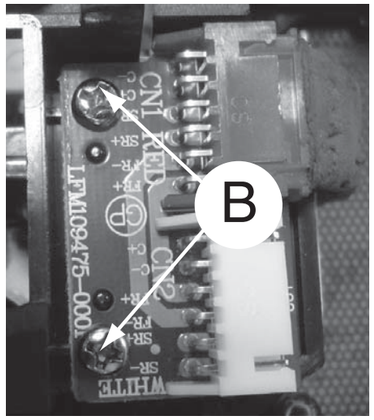


Figure 2

Dismantling of the Power Board

1) Loosen 4 screws “C” to remove the Power Board as shown in figure 3.

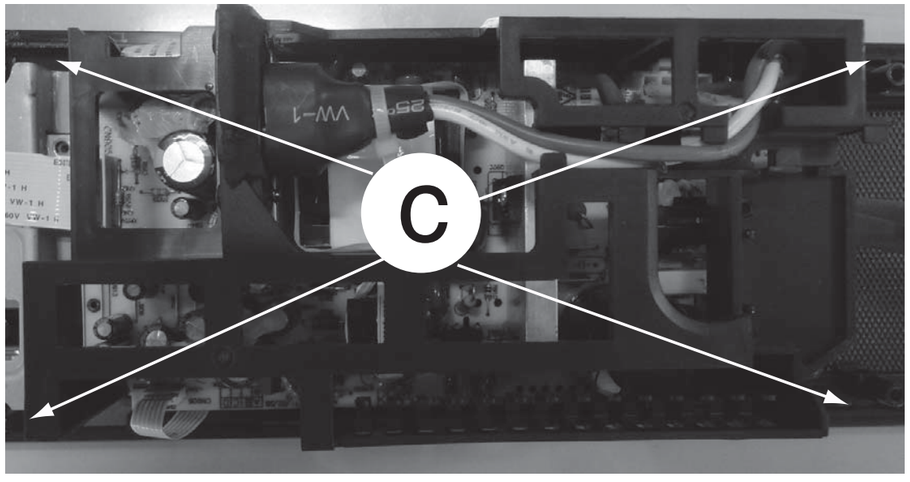


Figure 3

3 - 1

Dismantling of the HDMI Repeat Board

1) Loosen 4 screws “D” to remove the HDMI Repeat Board as shown in figure 4.

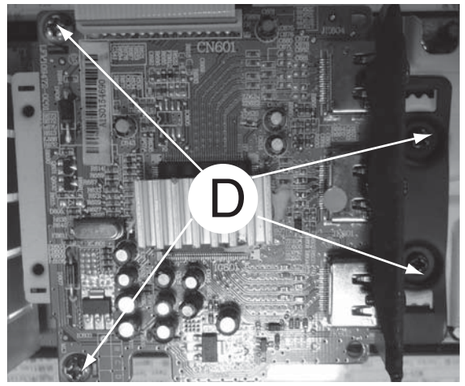


Figure 4

Dismantling of the Main Board

1) Loosen 3 screws “E” at the bracket as shown in figure 5.
2) Loosen 7 screws “F” on the top of Main Board as shown in figure 6.

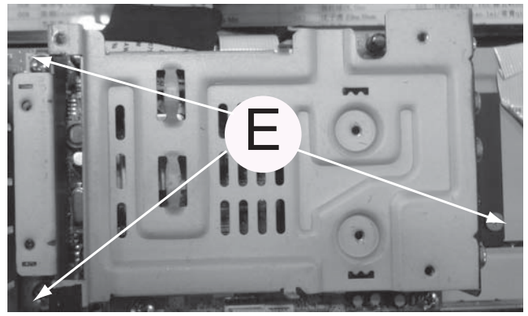


Figure 5

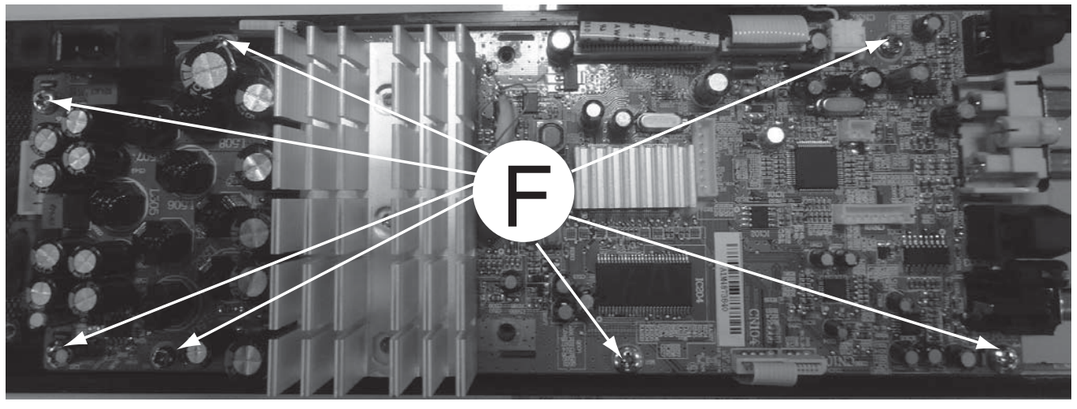


Figure 6

Dismantling of the VFD Board

1) Loosen 2 screws “G” at the bracket as shown in figure 7.
2) Loosen 4 screws “H” to remove the VFD as shown in figure 8.

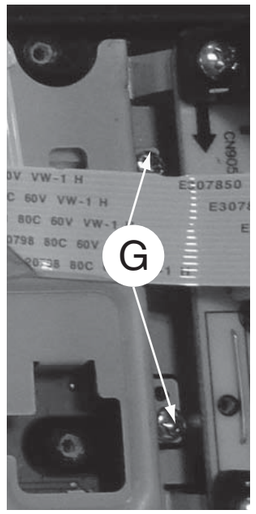


Figure 7

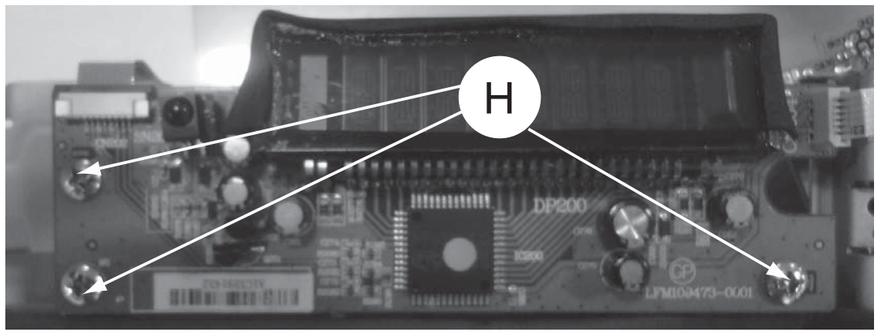


Figure 8

Dismantling of the MP3 Board

1) Loosen 2 screws “I” on the top of MP3 Board as shown in figure 9.

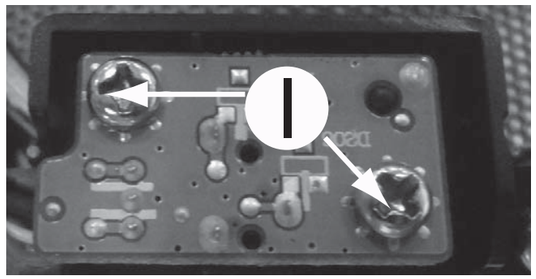


Figure 9

Dismantling of the TOUCH Board

1) Loosen 2 screws “J” at the bracket as shown in figure 10.
2) Loosen 2 screws “K” at the bracket as shown in figure 11.

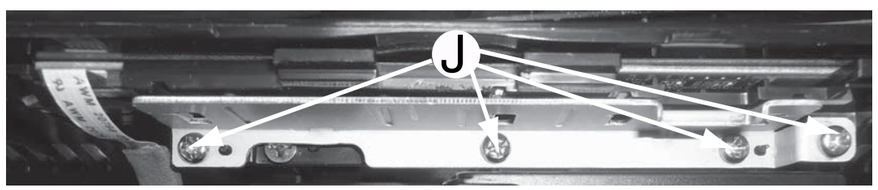


Figure 10

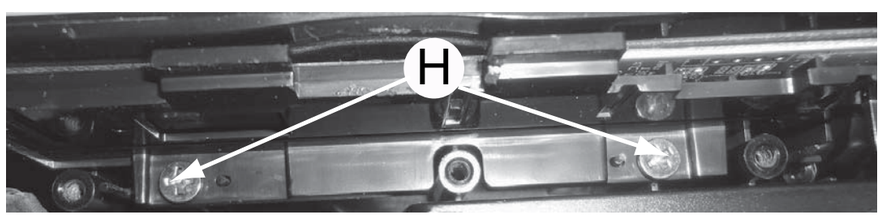
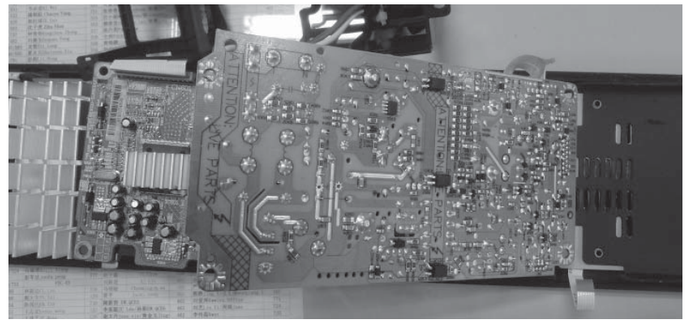


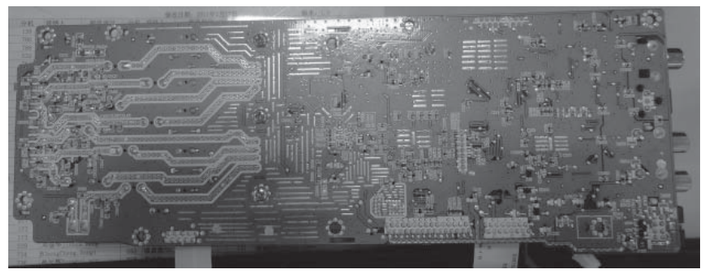
Figure 11

SERVICE POSITIONS

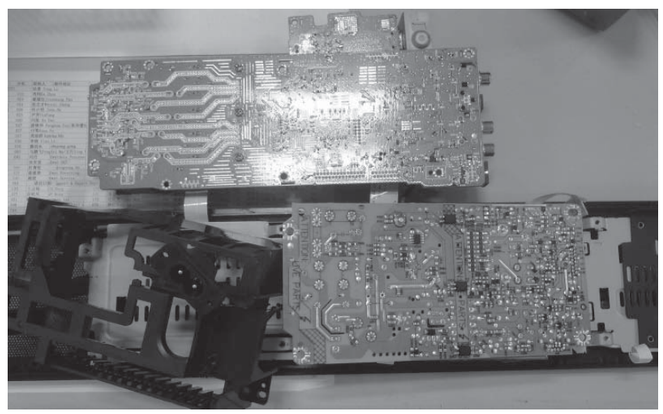
Service Position A - Power Board



Service Position B - Mian Board



Service Position C- Mian & Power & HDMI Repeat Boards



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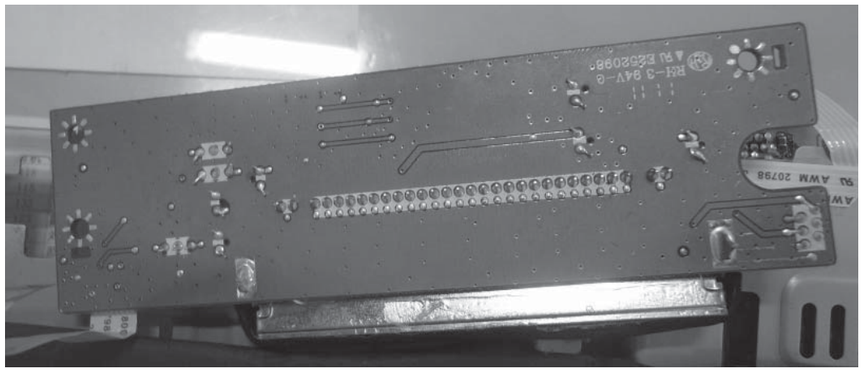
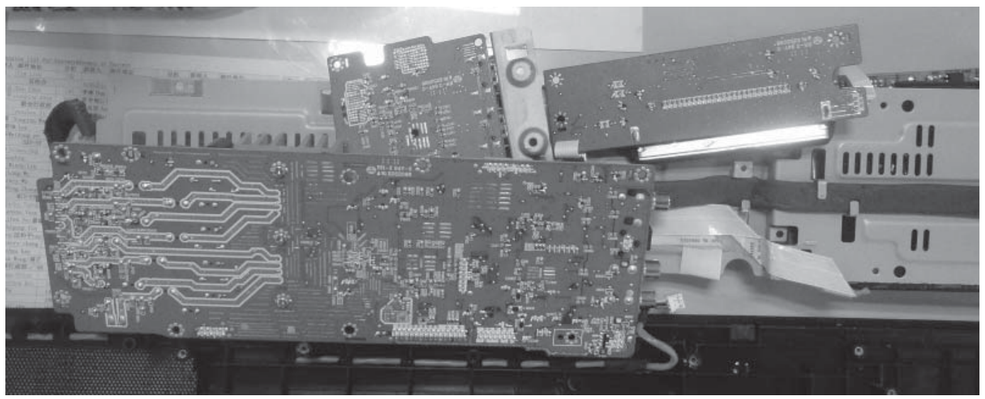
Service Position D- VFD Boards



Service Position E- Mian & VFD & HDMI Repeat Boards

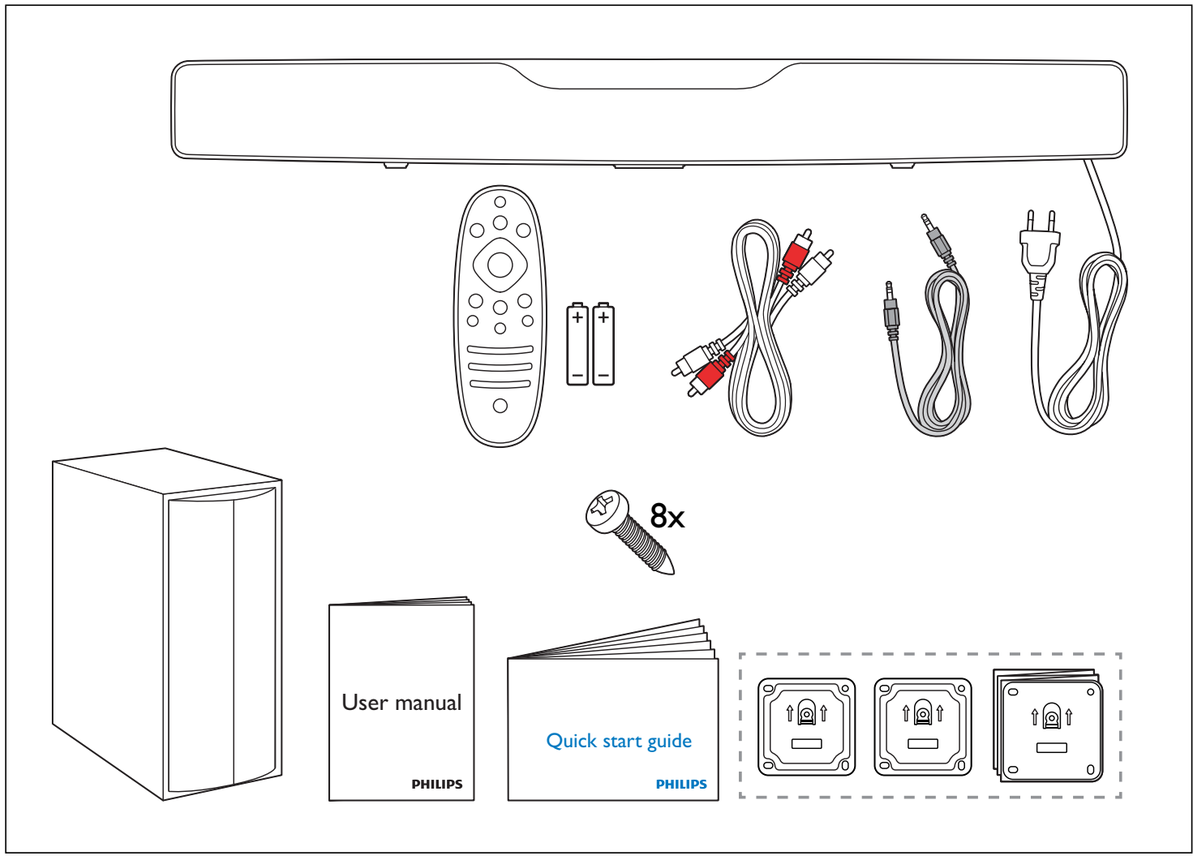


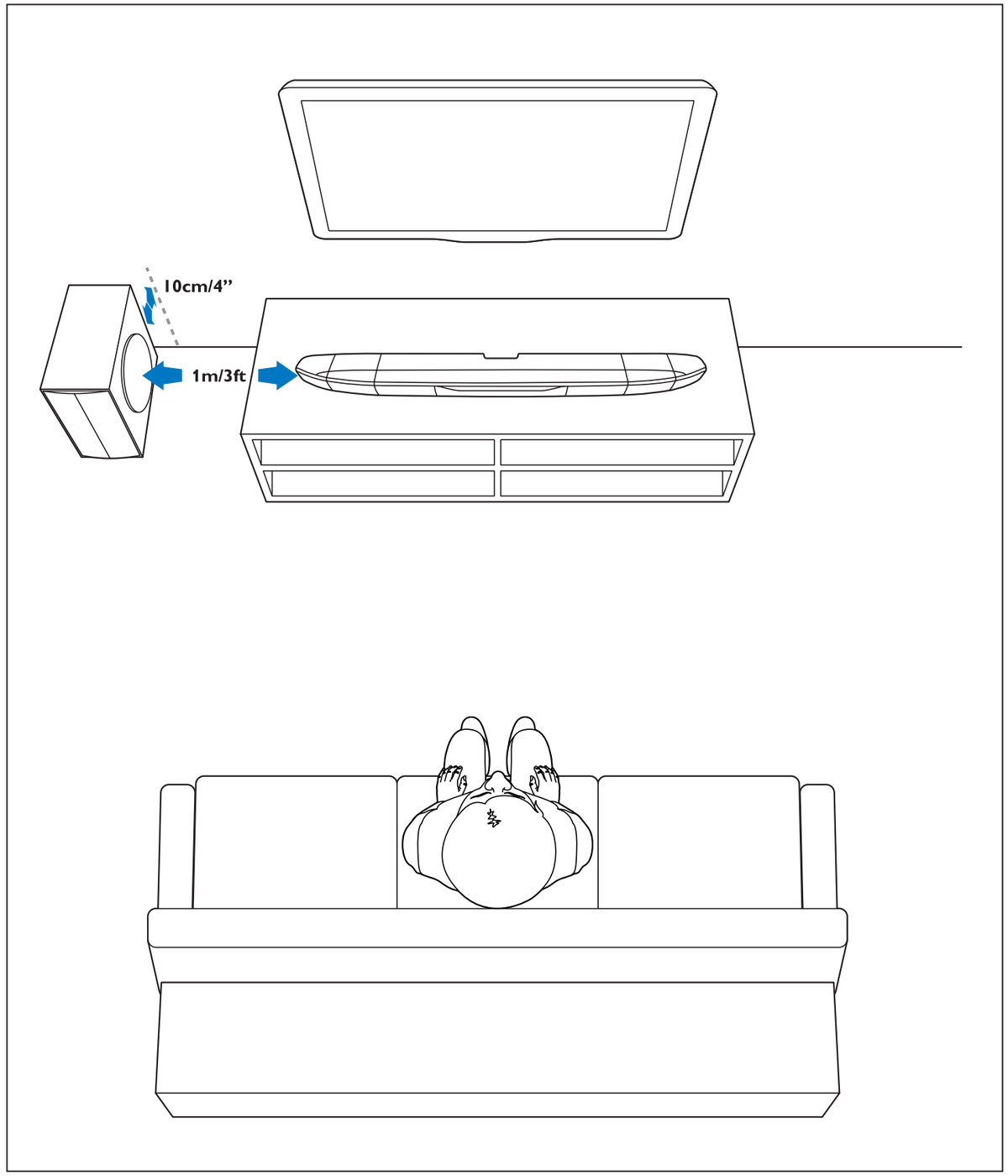
Note:In some service positions the components or copper patterns of one board may risk touching its neighbouring pc boards or metallic parts. To prevent such short-circuit use a piece of hard paper or other insulating material between them.

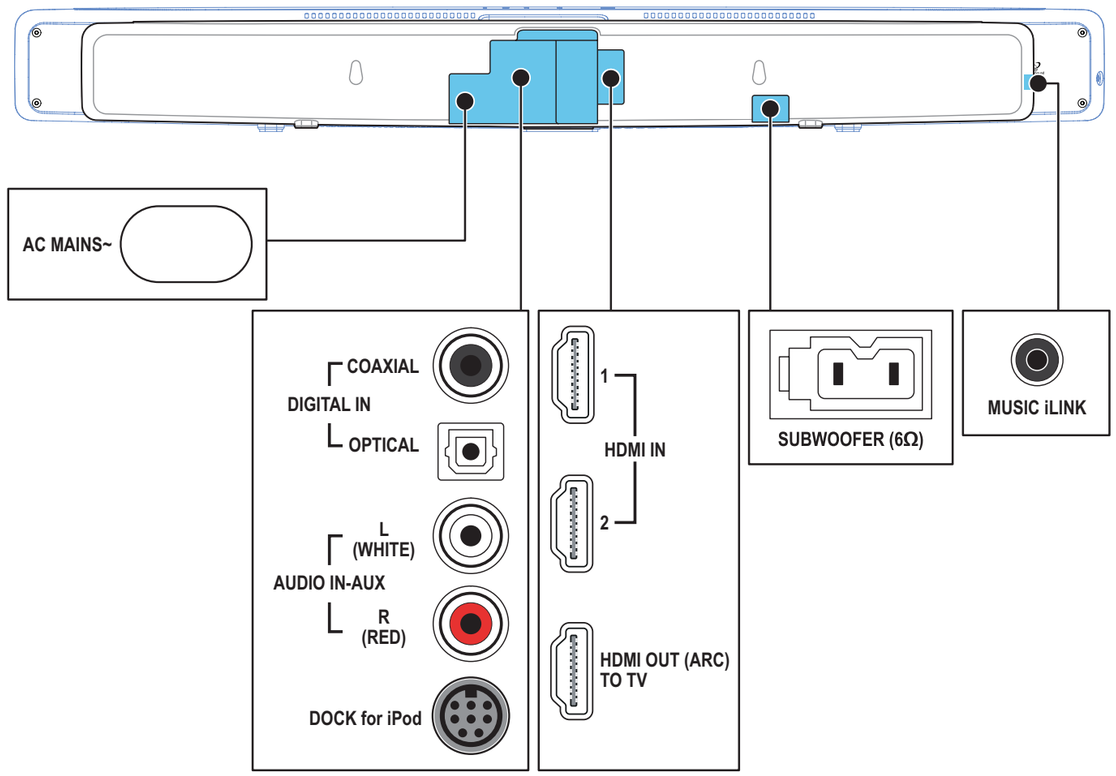
4 - 1

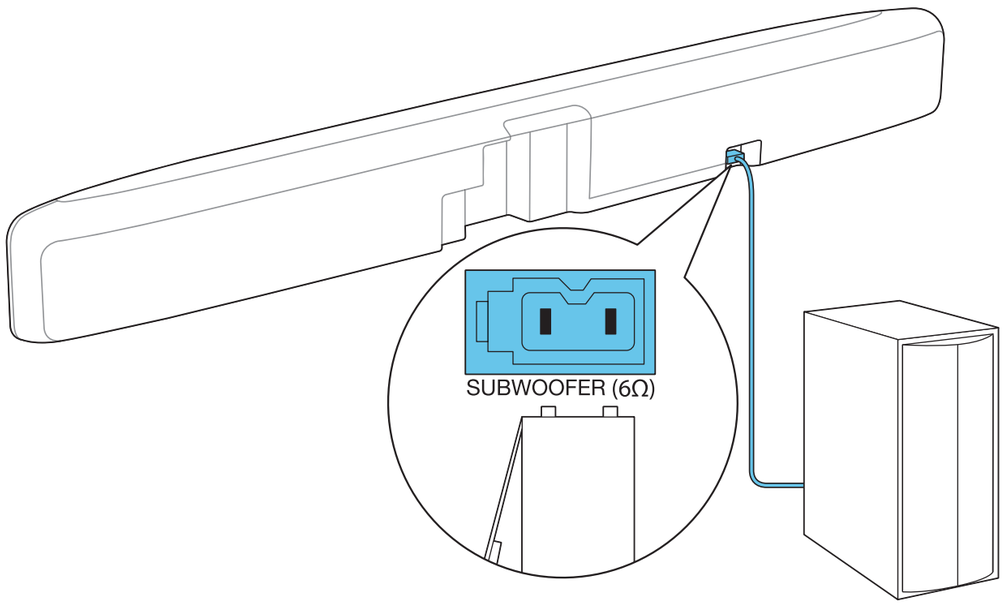
QUICK START GUIDE

The following excerpt of the QSG/DFU serves as an introduction to the set.
The complete Direction for Use can be download in the different languages from the internet site of Philips Consumer care Center: www.support.philips.com



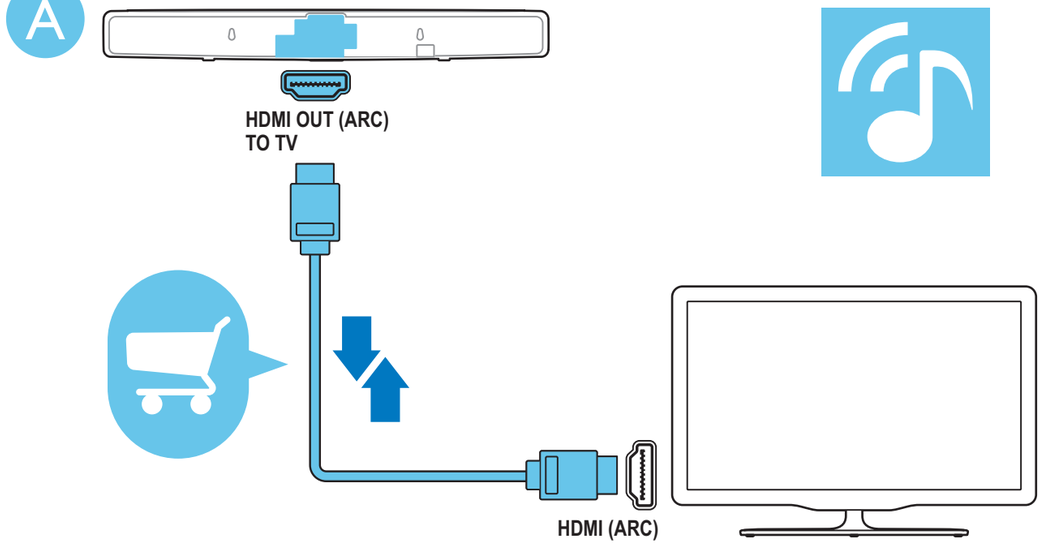



AC MAINS~
COAXIAL
DIGITAL IN
OPTICAL
L
(WHITE)
AUDIO IN-AUX
R
(RED)
DOCK for iPod
1
HDMI IN
2
HDMI OUT (ARC)
TO TV
SUBWOOFER (6Ω)
MUSIC iLINK

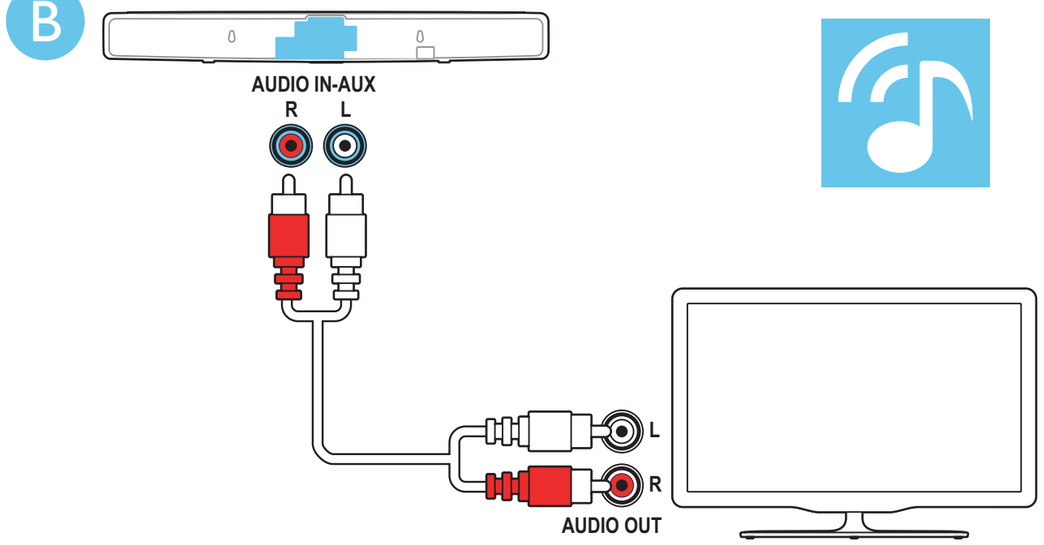

SUBWOOFER (6Ω)

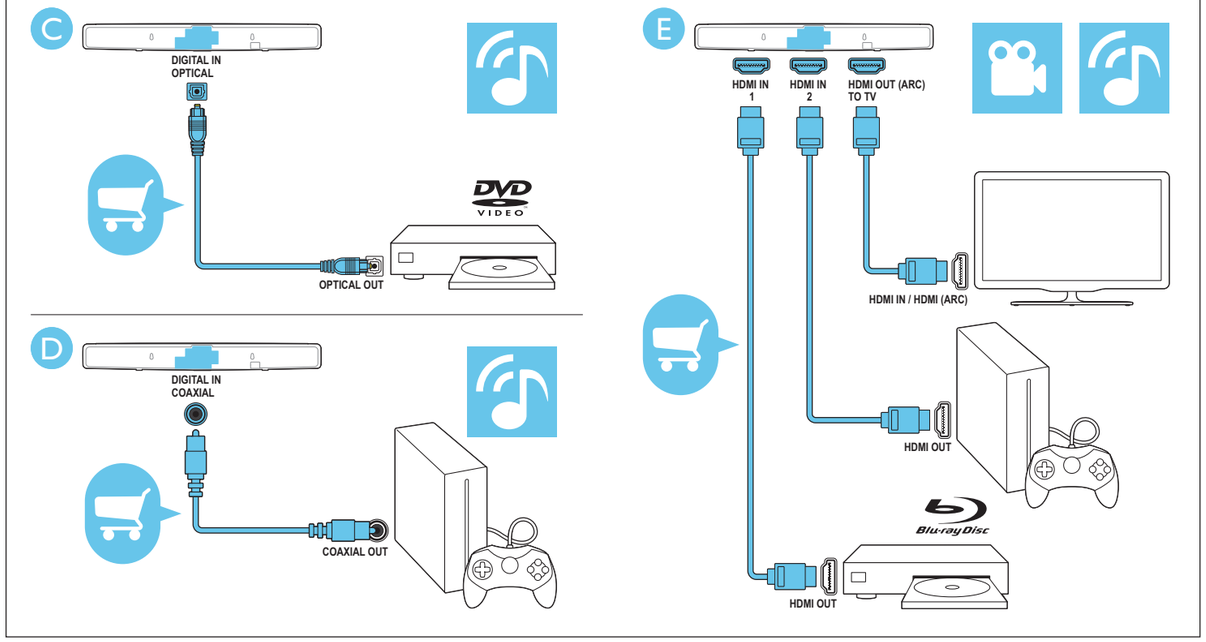
4 - 2

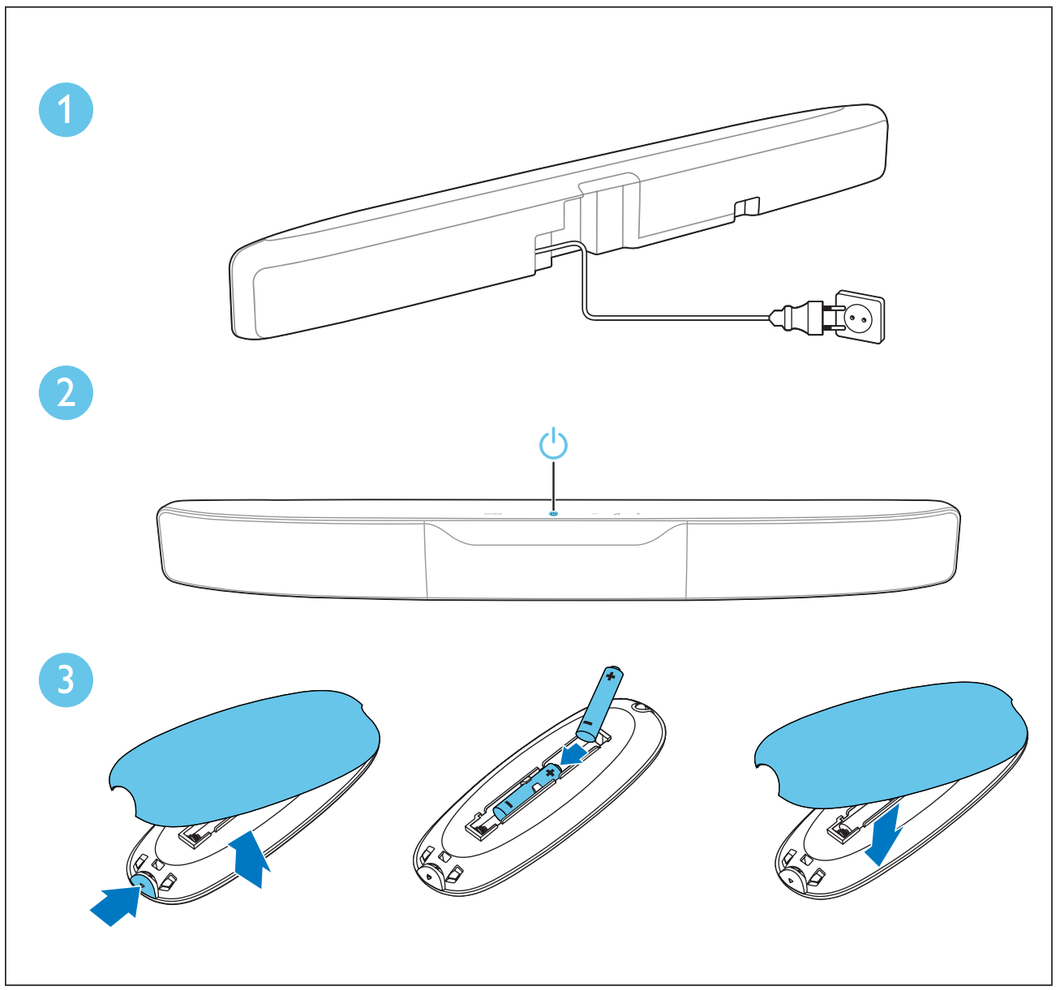
A


HDMI OUT (ARC)
TO TV
HDMI (ARC)

B


AUDIO IN-AUX
R
L
L
R
AUDIO OUT


C
DIGITAL IN
OPTICAL
OPTICAL OUT
DVD
VIDEO
D
DIGITAL IN
COAXIAL
COAXIAL OUT
E
HDMI IN
1
HDMI IN
2
HDMI OUT (ARC)
TO TV
HDMI IN / HDMI (ARC)
HDMI OUT
Blu-ray Disc
HDMI OUT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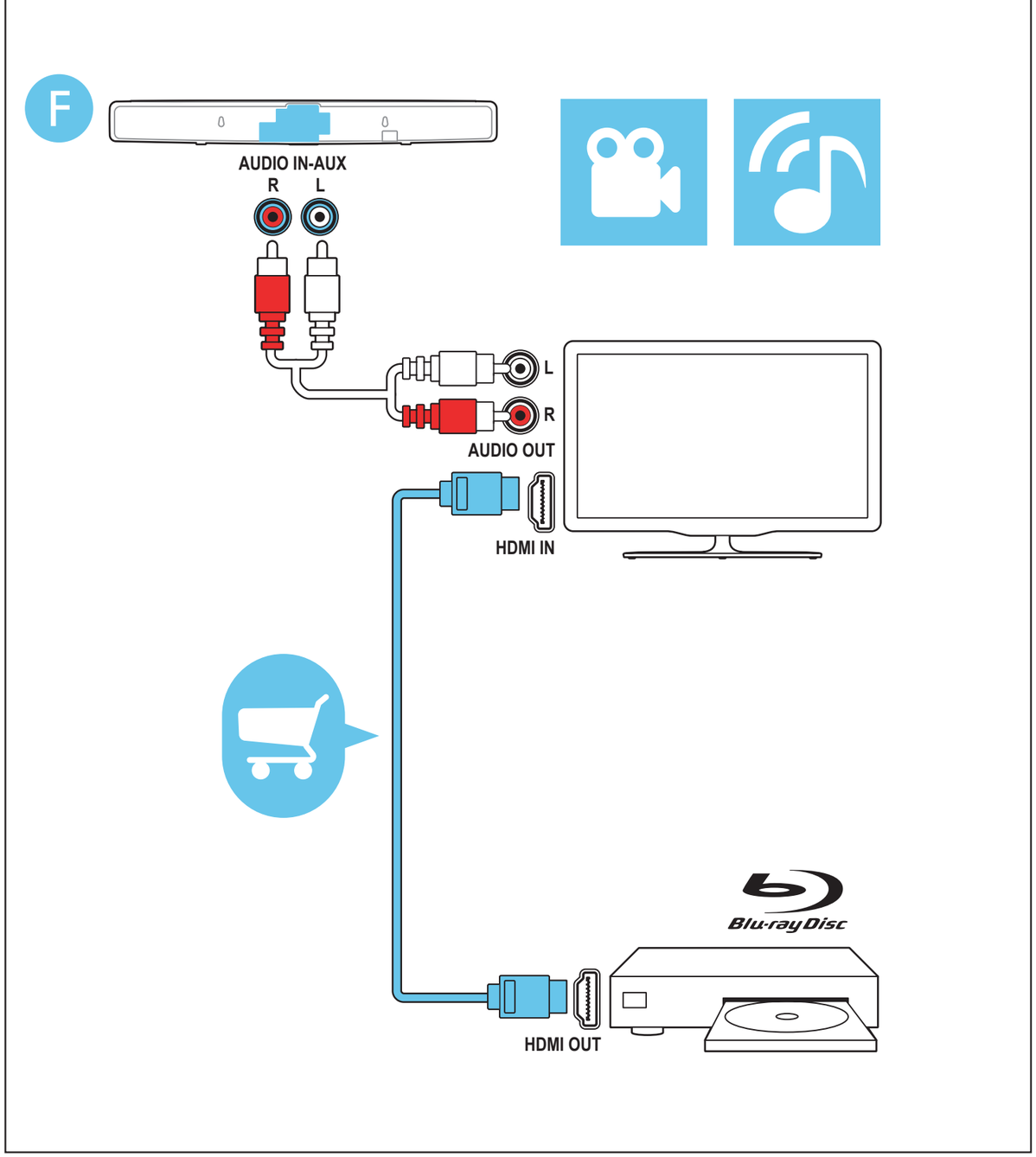
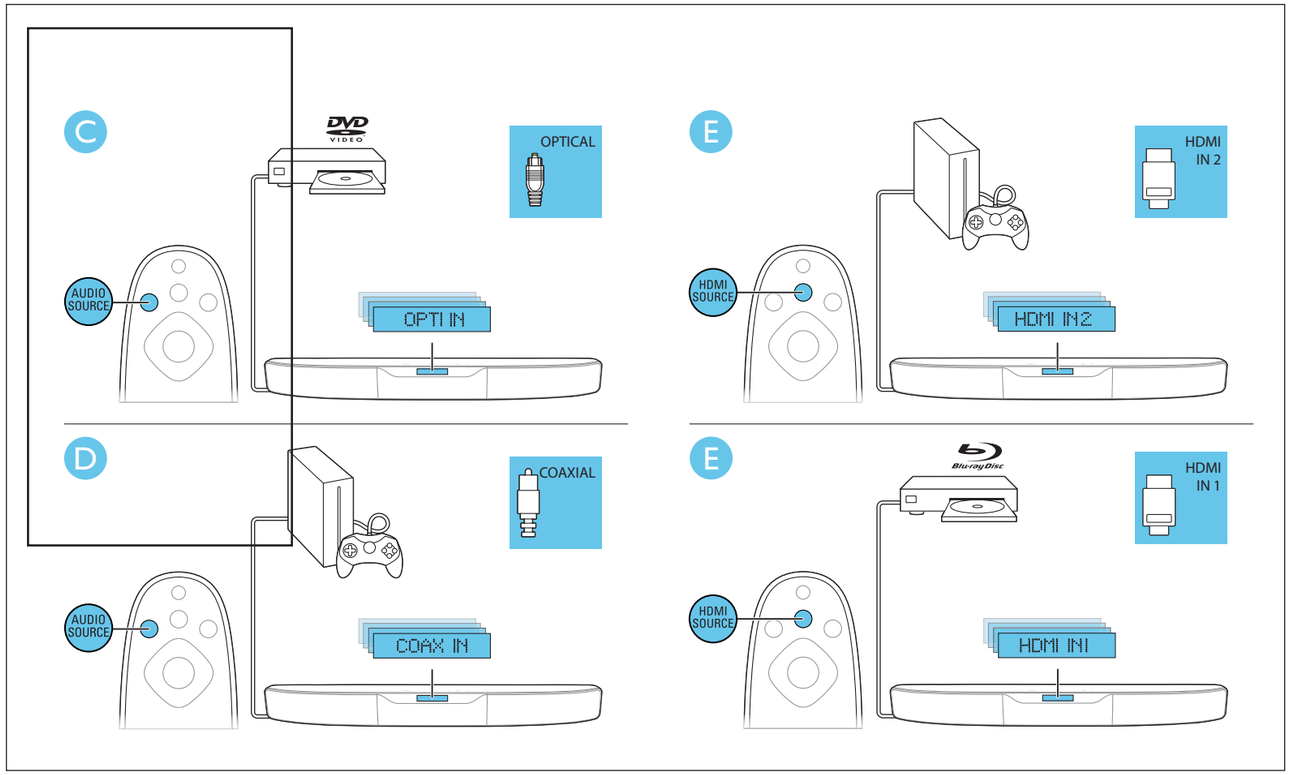
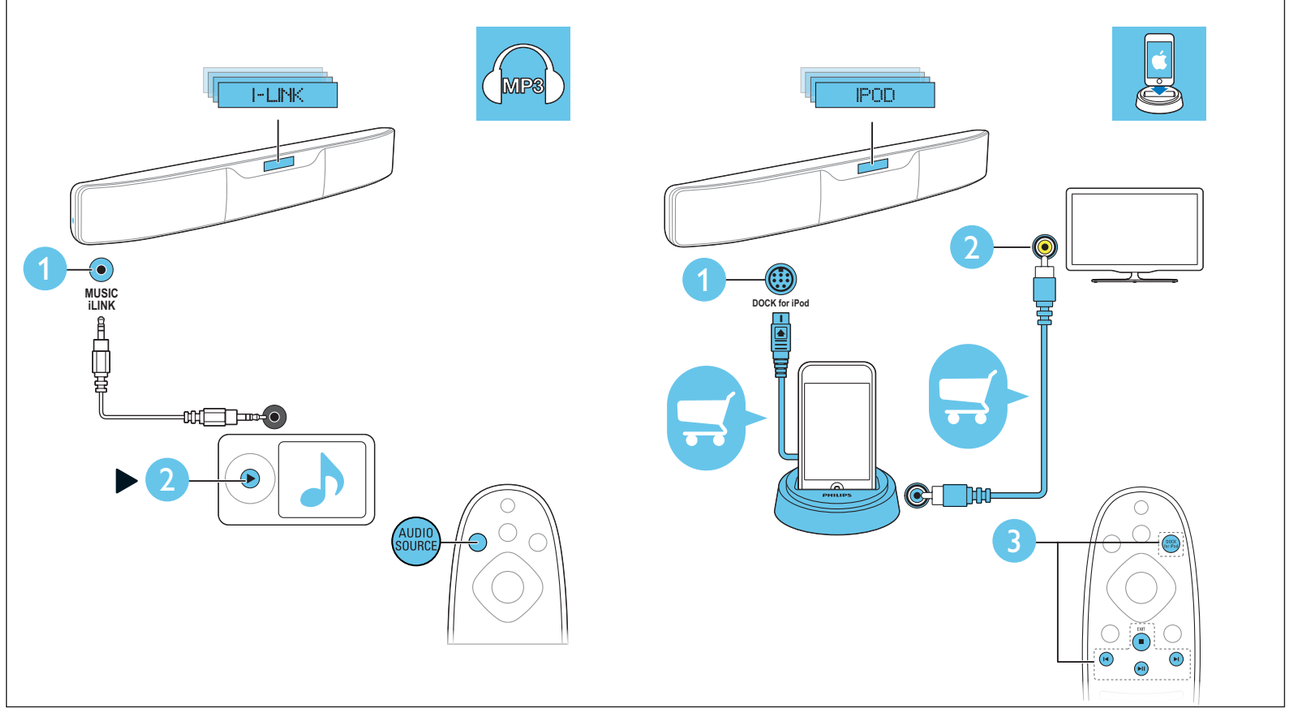
2
3

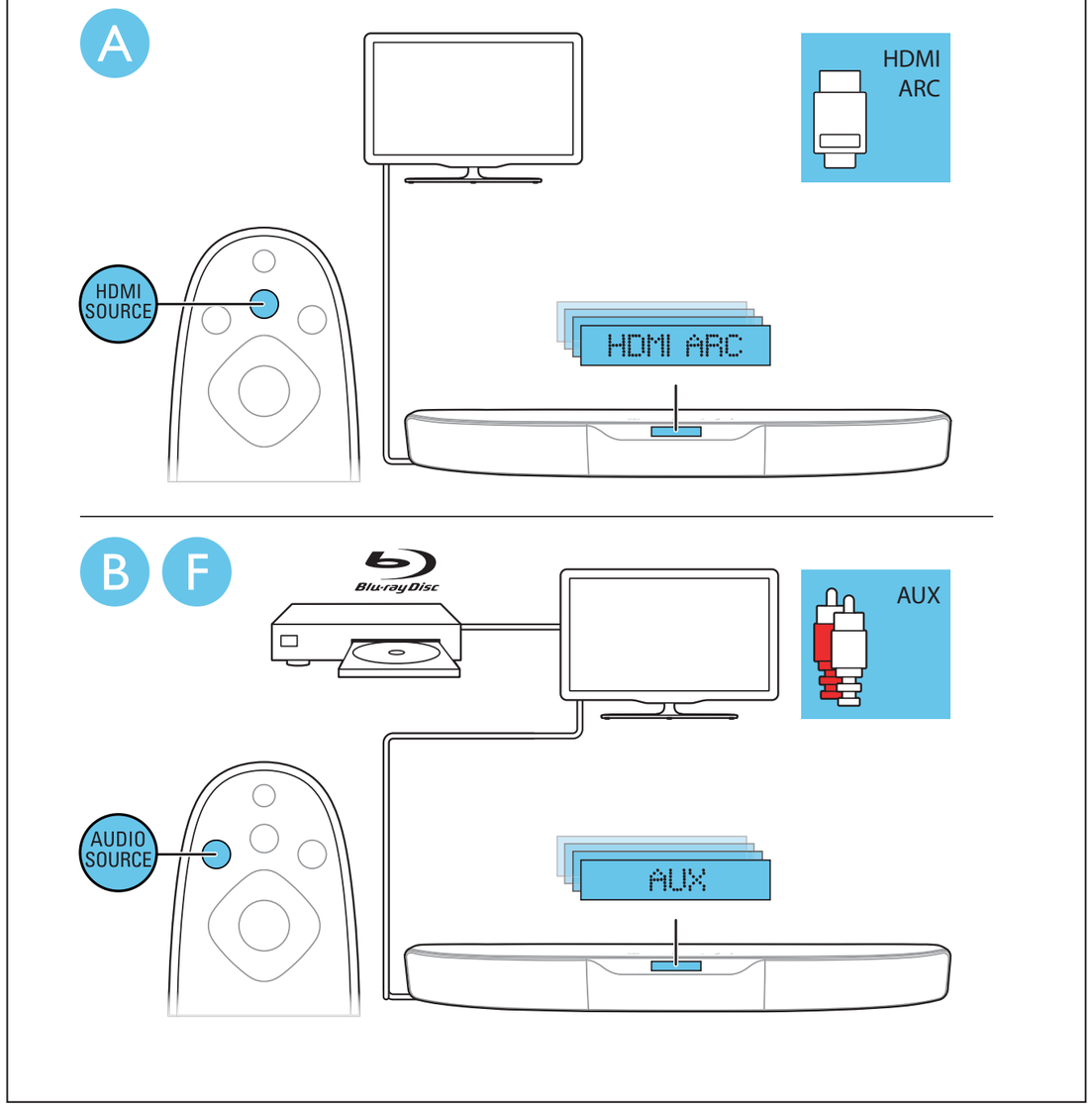
4 - 3


F
AUDIO IN-AUX
R
L
L
R
AUDIO OUT
HDMI IN
Blu-ray Disc
HDMI OUT

4 - 4


C
DVD VIDEO
OPTICAL
AUDIO SOURCE
OPTI IN
E
HDMI IN 2
HDMI SOURCE
HDMI IN 2
D
COAXIAL
AUDIO SOURCE
COAX IN
E
Blu-ray Disc
HDMI IN 1
HDMI SOURCE
HDMI IN1


I-LINK
MP3
1
MUSIC iLINK
2
AUDIO SOURCE
IPOD
1
DOCK for iPod
2
3


A
HDMI ARC
HDMI SOURCE
HDMI ARC
B
F
Blu-ray Disc
AUX
AUDIO SOURCE
AUX

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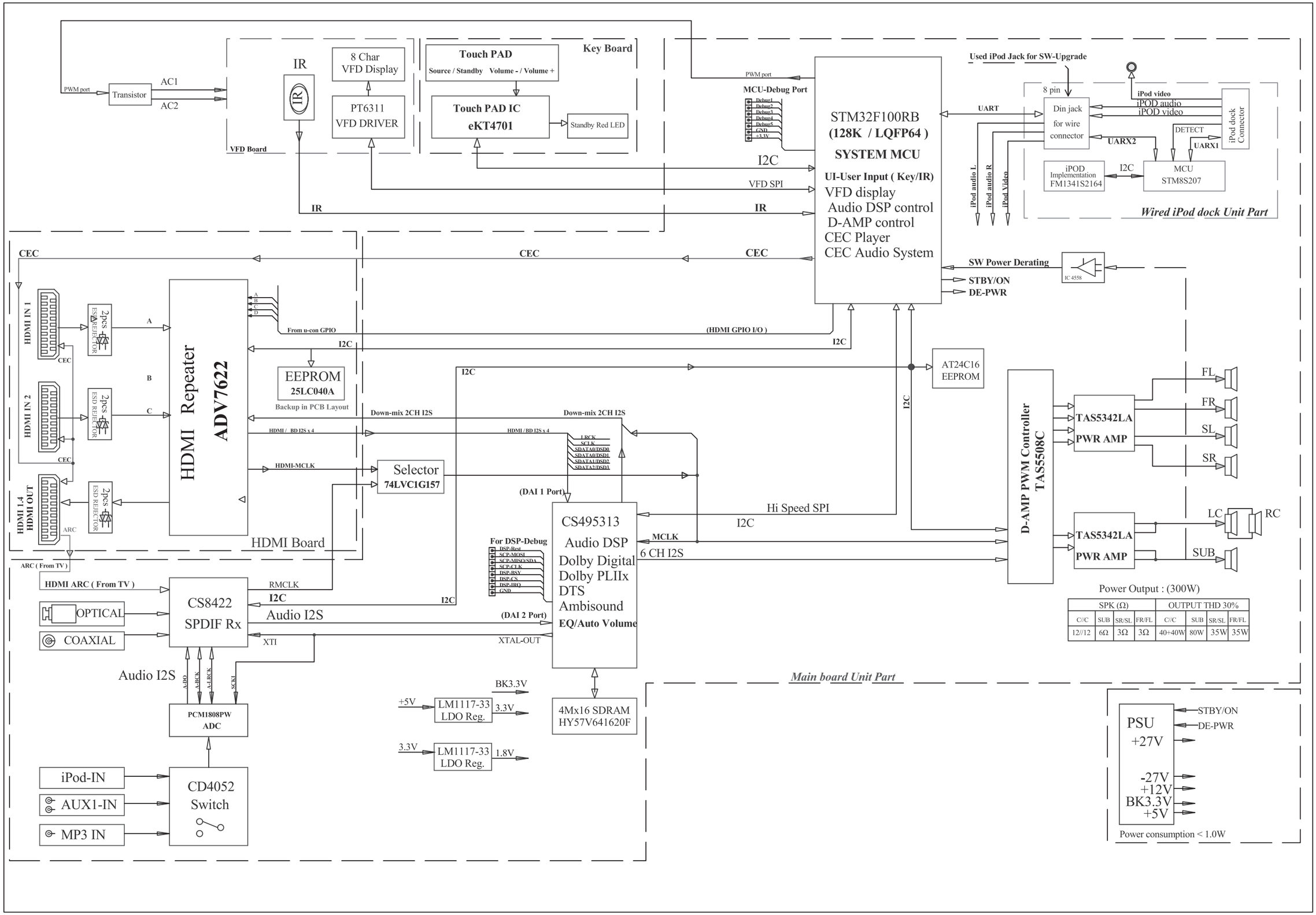
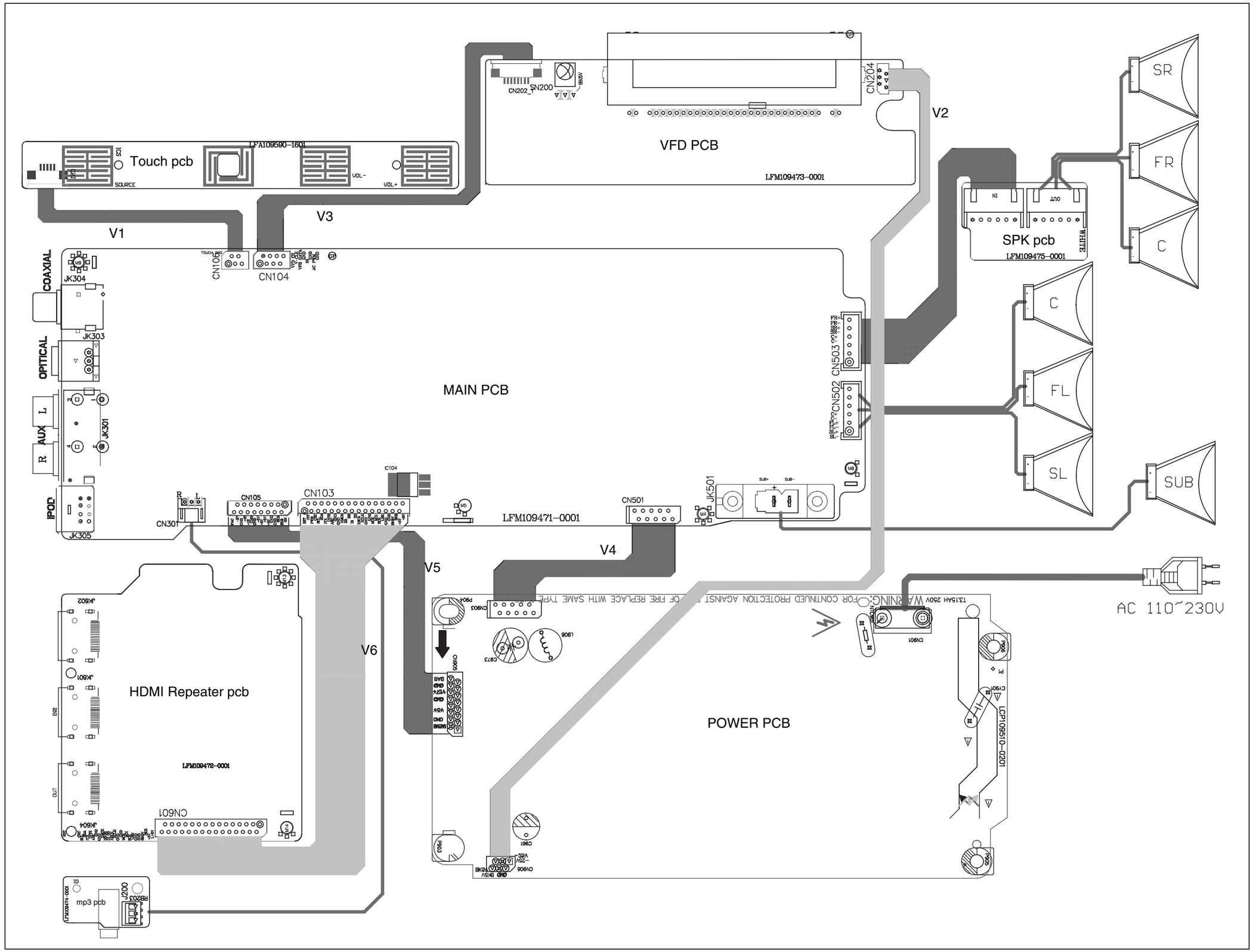
BLOCK DIAGRAM



5 - 2

WIRING DIAGRAM



MAIN+HDMI+VFD+MP3+SPK BOARD

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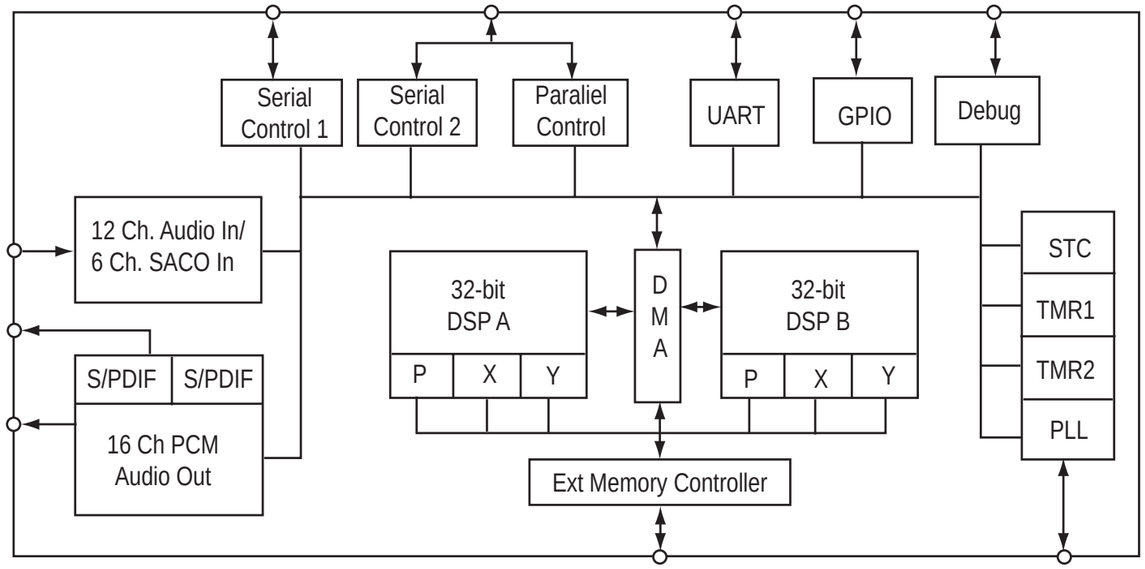
INTERNAL IC DIAGRAM - CS495313-CVZ LQFP



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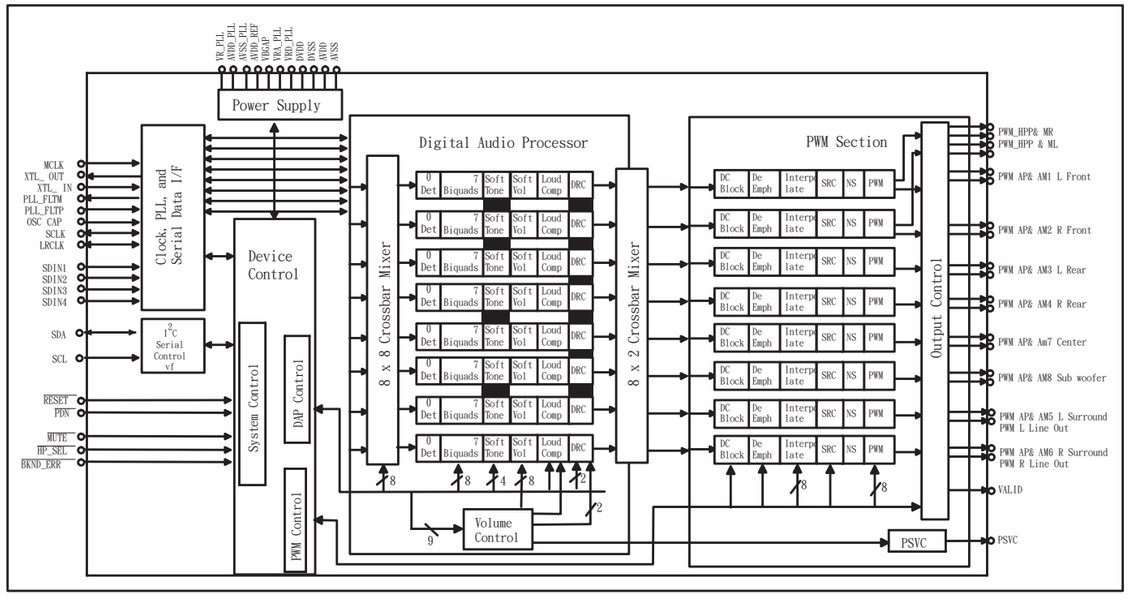

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CIRCUIT DIAGRAM (part one)

C100	C2	C123	C1	C223	D2	C271	A1	C324	B2	C359	B1	C502	D2
C1002	B3	C124	B3	C224	D2	C272	A1	C325	C1	C360	B1	C5020	B3
C1003	B3	C125	C1	C226	C1	C273	A1	C326	C1	C361	B1	C5027	C2
C1004	B3	C126	C1	C227	C1	C274	A1	C328	B1	C362	B1	C5028	C2
C1005	B3	C127	C1	C228	C1	C275	A1	C329	B1	C363	B1	C5029	C2
C1007	B3	C128	B2	C229	C1	C276	A1	C330	C1	C364	B1	C503	D2
C1008	B3	C129	B2	C230	C1	C278	B1	C331	C1	C365	B1	C5031	B2
C1009	B3	C130	B2	C231	C1	C279	B1	C332	C1	C366	B1	C5032	B2
C101	C2	C131	B2	C232	C1	C280	B1	C334	C1	C367	B1	C5034	B2
C1010	B3	C132	B2	C233	C1	C281	B1	C335	C1	C368	B1	C5035	B2
C1011	B3	C134	C1	C234	C1	C301	B1	C336	C1	C369	B2	C5038	C3
C1012	B3	C201	D1	C235	C1	C302	B1	C337	C1	C500	D2	C5039	C3
C102	C2	C202	D1	C236	C1	C303	B1	C338	C1	C5000	D2	C504	D2
C103	C2	C203	D1	C237	C1	C304	B1	C339	C1	C5001	C3	C5040	C3
C104	C2	C204	D1	C238	C1	C305	B1	C340	C1	C5002	C3	C5041	D3
C105	C2	C205	D1	C239	C1	C306	B1	C341	C1	C5003	C3	C5042	D3
C106	C2	C206	D1	C240	D1	C307	B1	C342	C1	C5004	C3	C505	D2
C107	C2	C207	D1	C241	D1	C308	B1	C343	B1	C5005	C3	C506	D2
C108	C2	C208	D1	C242	D1	C309	B1	C344	B1	C5006	C3	C507	D2
C109	C2	C209	D1	C243	D1	C310	B1	C345	B1	C5007	C3	C508	D2
C110	C2	C210	D1	C244	D1	C311	B1	C346	B1	C5008	D2	C509	D2
C111	C2	C211	D1	C245	D1	C312	B1	C347	B1	C5009	C3	C510	D2
C112	B2	C212	D1	C260	A1	C313	B1	C348	B1	C501	D2	C511	D2
C113	B2	C213	D1	C261	A1	C314	B1	C349	B1	C5010	C3	C512	D2
C114	B2	C214	D1	C262	A1	C315	B1	C350	B1	C5011	C3	C513	D2
C115	B2	C215	C1	C263	A1	C316	B1	C351	B1	C5012	C3	C514	D2
C116	C1	C216	D2	C264	A1	C317	B1	C352	B1	C5013	C3	C515	D2
C117	B3	C217	D2	C265	A1	C318	B1	C353	B1	C5014	C3	C516	D2
C118	B3	C218	D2	C266	A1	C319	B1	C354	B1	C5015	C3	C517	D2
C119	B3	C219	D2	C267	A1	C320	B2	C355	B1	C5016	C3	C518	D2
C120	C1	C220	D2	C268	A1	C321	B2	C356	B1	C5017	B3	C519	D2
C121	C1	C221	D2	C269	A1	C322	B2	C357	B1	C5018	B3	C520	D2
C122	C1	C222	D2	C270	A2	C323	B2	C358	B1	C5019	B3	C521	D2

C522	D2	C558	C3	C593	D3	C626	C4	C692	D4	FB301	C1	IC303	B2
C523	D2	C560	C3	C594	D2	C627	C4	C693	C4	FB302	C1	IC304	B1
C524	D2	C561	C3	C595	D3	C628	C4	CN1	A1	FB305	B1	IC501	D2
C525	D2	C562	C3	C596	D3	C629	C4	CN103	C1	FB501	C3	IC502	C2
C526	D2	C563	C3	C597	D3	C630	C4	CN104	C1	FB502	C3	IC503	D2
C527	D2	C564	C3	C598	D3	C631	C4	CN105	C1	FB503	C3	IC504	B2
C528	D2	C565	C3	C599	D3	C632	C4	CN106	B2	FB504	D3	IC601	B4
C529	D2	C566	C3	C600	B4	C633	C4	CN2	B1	FB505	D3	IC603	C4
C530	D2	C567	C2	C601	D4	C634	C4	CN202	A1	FB601	D4	IC604	C4
C531	C2	C568	C3	C602	D4	C635	C4	CN204	A1	FB602	D4	J200	B1
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C533	C2	C570	C3	C604	D4	C637	B4	CN501	D1	FB604	D4	JK303	C1
C534	D2	C572	C3	C605	D4	C638	B4	CN502	C3	FB605	C4	JK304	C1
C535	C2	C573	C3	C606	D4	C639	B4	CN503	C3	FB607	C4	JK305	B1
C536	C2	C574	C2	C607	D4	C641	B4	CN601	B4	FB608	C4	JK501	D3
C537	D3	C575	D2	C608	D4	C642	B4	D101	C2	FB609	C4	JK601	D3
C538	D3	C576	D2	C609	D4	C643	B4	D102	C1	FB610	C4	JK602	C3
C539	D3	C577	D2	C610	D4	C666	D4	D105	C1	FB611	C4	JK604	D4
C541	D3	C578	D2	C611	D4	C667	C4	D500	D2	FB612	D4	L101	B2
C542	D3	C579	D2	C612	D4	C668	C4	D501	B3	FB714	B1	L102	B3
C543	C3	C580	D2	C613	D4	C669	C4	D502	B3	IC101	C2	L201	D1
C544	C3	C581	D3	C614	D4	C670	C4	D606	D4	IC102	C2	L301	C1
C546	C3	C582	D3	C615	D4	C671	C4	D607	C4	IC103	B3	L302	C1
C547	C3	C583	D3	C616	D4	C672	C4	DP200	A1	IC104	B2	L303	B1
C548	C2	C584	D3	C617	D4	C673	C4	F301	B1	IC105	C1	L306	C1
C549	D3	C585	D3	C618	D4	C674	C4	FB102	B2	IC200	A1	L501	C3
C550	D3	C586	D2	C619	D4	C685	C4	FB103	C1	IC200	A1	L502	C3
C551	D3	C587	D3	C620	D4	C686	C4	FB104	C1	IC201	D2	L503	C3
C553	D3	C588	D3	C621	D4	C687	C4	FB106	C4	IC203	C1	L504	C3
C554	D3	C589	D3	C622	C4	C688	C4	FB200	B1	IC204	C1	L505	D3
C555	C2	C590	D3	C623	C4	C689	D4	FB201	C1	IC301	B1	L506	D3
C556	C3	C591	D3	C624	C4	C690	D4	FB202	C1	IC301	B1	L507	D3
C557	C3	C592	D3	C625	C4	C691	D4	FB203	B1	IC302	C1	L508	D3

Q101	C2	R113	C2	R146	C2	R205	D1	R263	D1	R312	B1
Q102	C1	R114	C2	R147	C2	R206	D1	R264	D1	R313	B1
Q103	B2	R115	B2	R148	C2	R207	C1	R265	D1	R314	B1
Q103	B2	R116	C2	R149	C2	R2076	A1	R266	D1	R315	B1
Q104	B2	R117	C2	R150	C2	R2077	A1	R267	D1	R317	B1
Q105	B2	R118	C2	R151	C2	R2078	A1	R272	D2	R318	B1
Q200	A1	R119	C2	R152	C2	R2079	A1	R280	D1	R320	B2
Q201	A1	R120	C2	R153	C2	R2080	A1	R285	D1	R321	B1
Q201	A1	R121	C2	R154	C2	R2081	A1	R286	A1	R322	C1
Q202	A1	R122	C2	R155	B2	R2082	A1	R287	A1	R323	B1
Q301	B1	R123	C2	R156	B2	R218	D1	R288	A1	R324	B1
Q302	B1	R124	C2	R157	C2	R219	D1	R289	A1	R325	C1
Q500	D2	R125	C2	R158	C2	R227	D1	R290	A1	R326	C1
Q501	D2	R126	C2	R159	C1	R228	D1	R291	A1	R327	C1
Q502	C2	R127	C2	R160	C1	R229	D1	R292	A1	R328	C1
Q503	B2	R128	C2	R161	C1	R233	D1	R293	A1	R329	C1
Q601	B4	R129	C2	R162	C1	R234	D1	R294	A1	R330	C1
Q602	B4	R130	C2	R163	B2	R235	D1	R295	A1	R332	C1
Q603	D3	R131	C2	R164	B2	R236	C1	R296	A1	R333	C1
Q604	C3	R132	C2	R165	B2	R237	C1	R297	B1	R334	C1
R100	C2	R133	C2	R166	B2	R241	D1	R298	A1	R335	B1
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R102	C2	R135	C2	R169	C3	R243	D1	R301	B1	R337	B1
R103	C2	R136	C2	R170	B3	R244	D1	R302	B1	R338	B1
R104	C2	R137	C2	R171	B3	R245	D1	R303	B1	R339	B1
R105	C2	R138	C2	R172	B3	R246	D1	R304	B1	R340	B1
R106	C2	R139	C2	R173	B3	R247	D1	R305	B1	R341	B1
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R111	C2	R144	C2	R203	D1	R261	D1	R310	B1	R347	B1
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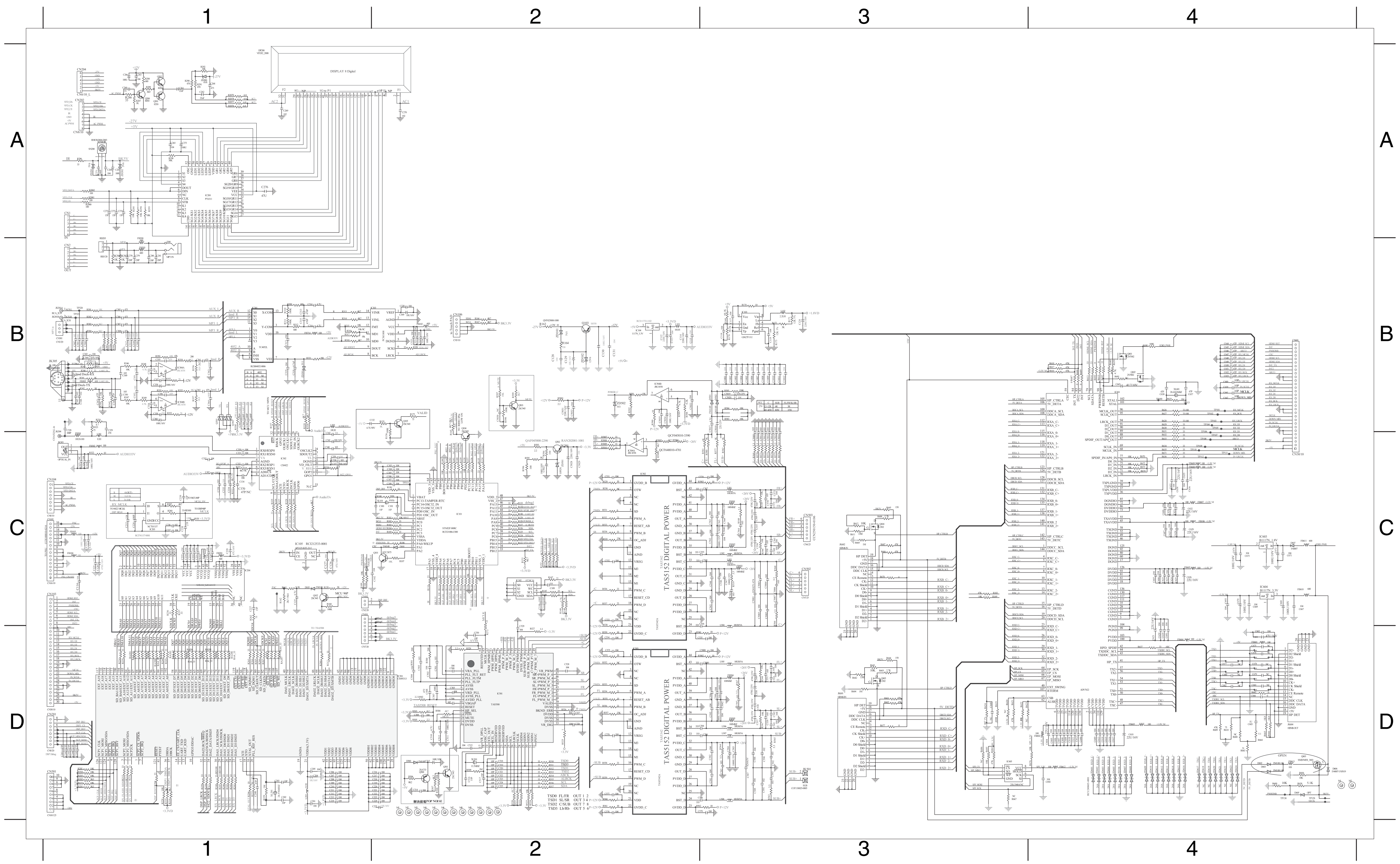
R349	B1	R513	D2	R554	D2	R591	B2	R626	B4	R685	D3
R350	B1	R514	D2	R555	D2	R592	B2	R627	B4	R687	B4
R351	B1	R515	D2	R556	C3	R593	C2	R628	B4	R688	B4
R352	B1	R516	D2	R557	D2	R594	C2	R629	B4	R689	B4
R353	B1	R517	D2	R558	D2	R595	C2	R630	B4	R690	B4
R354	B1	R519	C3	R559	D2	R596	C2	R631	B4	R692	B4
R355	B1	R520	D2	R560	D2	R597	B2	R632	B4	R693	B4
R356	B1	R521	D2	R561	D2	R598	B2	R633	C4	R694	D4
R357	B1	R522	D2	R562	D2	R599	B2	R634	C4	RA201	D1
R358	B1	R523	D2	R563	D3	R600	D4	R635	C4	RA203	D1
R500	D2	R524	D2	R564	B3	R601	D3	R636	C4	RA204	D1
R5001	B2	R525	D2	R565	D3	R602	D3	R637	D4	RA205	D1
R5002	D2	R526	D2	R566	C3	R603	D3	R638	D4	RA206	D1
R5003	C2	R527	D2	R567	D3	R604	D3	R639	B4	RA207	D1
R5004	C2	R528	D2	R568	C3	R605	C3	R640	B4	RA208	D1
R5005	C2	R529	C2	R569	C3	R606	C3	R642	D3	RB203	B1
R5006	C2	R531	C2	R570	C3	R607	C3	R643	D3	SN200	A1
R5007	C2	R532	C2	R571	C3	R608	C3	R644	D3	XL101	C2
R5008	C2	R533	C2	R572	C3	R609	D4	R645	C3	XL201	D1
R5009	C2	R534	C2	R573	C3	R610	D4	R662	D4	XL501	D2
R501	D2	R535	C2	R574	C3	R611	C3	R663	D4	XL601	B4
R5010	C2	R536	C2	R575	C3	R612	C3	R664	D4	ZD101	B2
R502	D2	R537	C2	R576	C3	R613	B4	R665	D4	ZD102	B2
R503	D2	R538	C2	R577	C3	R614	B4	R666	D4	ZD200	A1
R504	D2	R539	D2	R580	C3	R615	B4	R670	C4	ZD200	A1
R505	D2	R540	D2	R581	C3	R616	B4	R671	C4	ZD201	A1
R506	D2	R541	D3	R582	C3	R617	B4	R672	C4	ZD201	A1
R507	D2	R544	D3	R583	B3	R618	B4	R673	C4	ZD202	A1
R508	D2	R546	C3	R584	B3	R619	D3	R674	C4	ZD202	A1
R509	D2	R548	C3	R585	B3	R621	D3	R676	D4	ZD301	B1
R510	D2	R549	C3	R588	B2	R622	D3	R677	D3	ZD502	B2
R511	D2	R551	D2	R589	B2	R624	D3	R678	C3		
R512	D2	R553	D2	R590	B2	R625	B4	R684	D3		



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PCB LAYOUT - TOP VIEW

C100	B1	C239	B2	C306	B1	C337	B1	C5001	B3	C511	A2	C562	A3	C598	B3	CN104	A1	FB302	B1	IC204	A2	L502	B3	R103	B1	R131	B1	R161	B1	R237	A2	R291	A2	R321	B1	R353	B1	R519	B3	R562	B3	R610	B4	R645	B4	RB203	A4
C101	B1	C260	A1	C307	B1	C341	B1	C5008	B3	C512	A2	C563	A3	C599	B3	CN105	B1	FB305	B1	IC301	B1	L503	B3	R104	B1	R132	B1	R162	B1	R241	B2	R292	A2	R322	A1	R354	B1	R525	B2	R564	B3	R611	B4	R663	B4	SN200	A1
C105	B2	C261	A1	C308	B1	C344	B1	C501	A2	C513	A2	C564	A3	C600	A4	CN106	A1	FB501	A3	IC302	B1	L504	B3	R105	B1	R133	B1	R163	B1	R242	B2	R293	A1	R323	A1	R355	B1	R526	B2	R567	B3	R612	B4	R664	B4	XL101	B1
C112	B2	C262	A2	C309	B1	C345	B1	C5017	A4	C514	B2	C565	A3	C601	A4	CN2	A4	FB502	A3	IC303	A1	L505	B3	R106	B1	R134	B1	R165	B1	R243	B2	R294	A1	R324	B1	R356	B1	R527	B2	R583	A3	R613	B4	R665	B4	XL201	B2
C114	B2	C263	A1	C310	B1	C346	B1	C5018	A3	C515	B2	C567	A3	C603	B4	CN202	A1	FB503	B3	IC304	B1	L506	B3	R107	B1	R135	B1	R168	B1	R244	A2	R295	A1	R325	A1	R357	B1	R528	B2	R584	A3	R614	B4	R666	A4	XL501	B2
C115	A1	C264	A1	C311	B1	C349	B1	C5019	A3	C516	B2	C568	B3	C604	B4	CN204	A2	FB504	B3	IC501	B2	L507	B3	R108	B1	R136	B1	R169	B2	R245	A2	R296	A1	R326	A1	R500	A2	R529	A2	R585	A3	R615	B4	R670	B4	XL601	B4
C116	B2	C265	A2	C312	B1	C350	B1	C502	A2	C517	B2	C569	B3	C605	B4	CN301	B1	FB505	B3	IC502	A2	L508	B3	R109	B1	R137	B1	R170	B2	R246	B2	R297	A4	R327	A1	R5001	B2	R531	A2	R588	A3	R618	A4	R671	A4	ZD200	A2
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C118	B2	C267	A1	C314	B1	C352	B1	C5027	B2	C529	B2	C575	B2	C618	B4	CN502	B3	FB602	B4	IC504	A3	Q102	B1	R111	B1	R139	B1	R172	B2	R248	B2	R299	A4	R329	B1	R5003	A3	R533	B2	R590	A3	R622	A4	R673	B4	ZD201	A1
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C126	B1	C273	A1	C321	A1	C359	A1	C5035	A3	C536	B3	C581	B3	C636	B4	D501	A3	FB609	B4	JK303	B1	Q201	A1	R117	B1	R145	B1	R2076	A1	R263	B2	R306	B1	R337	A1	R505	A2	R539	B2	R596	B2	R631	B4	R688	B4		
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C226	B2	C302	B1	C331	B1	C368	B1	C507	A2	C550	B3	C594	B3	C692	A4	FB106	B4	IC105	B1	L301	A1	Q603	B4	R127	B1	R155	B2	R229	B2	R287	A1	R315	A1	R349	B1	R514	B2	R558	B2	R606	B4	R640	B4	RA205	A2		
C227	A2	C303	B1	C332	A1	C369	A1	C508	A2	C555	B3	C595	B3	C693	B4	FB200	A4	IC200	A1	L302	A1	Q604	B4	R128	B1	R156	B2	R234	A2	R288	A1	R317	A1	R350	B1	R515	B2	R559	B2	R607	B4	R642	B4	RA206	A2		
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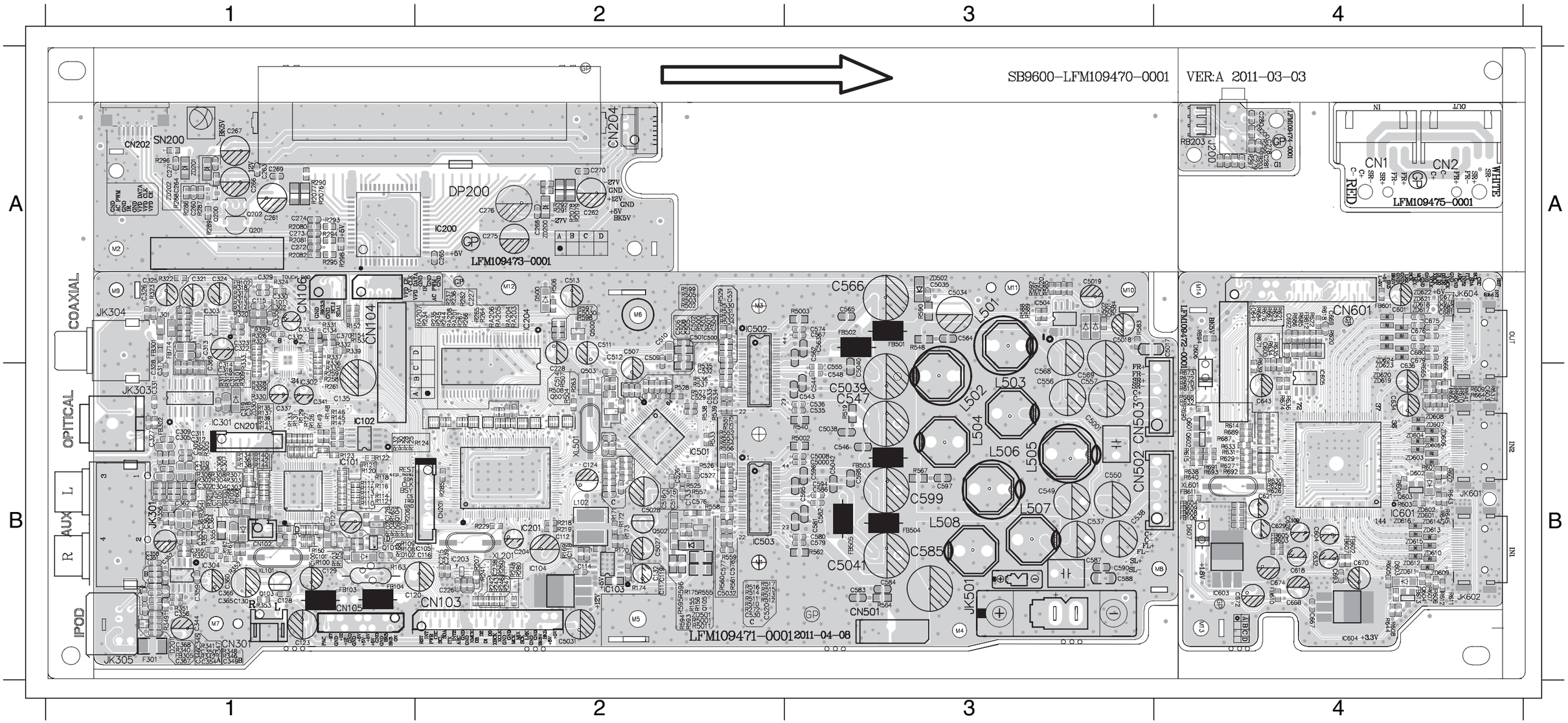

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PCB LAYOUT - BOTTOM VIEW

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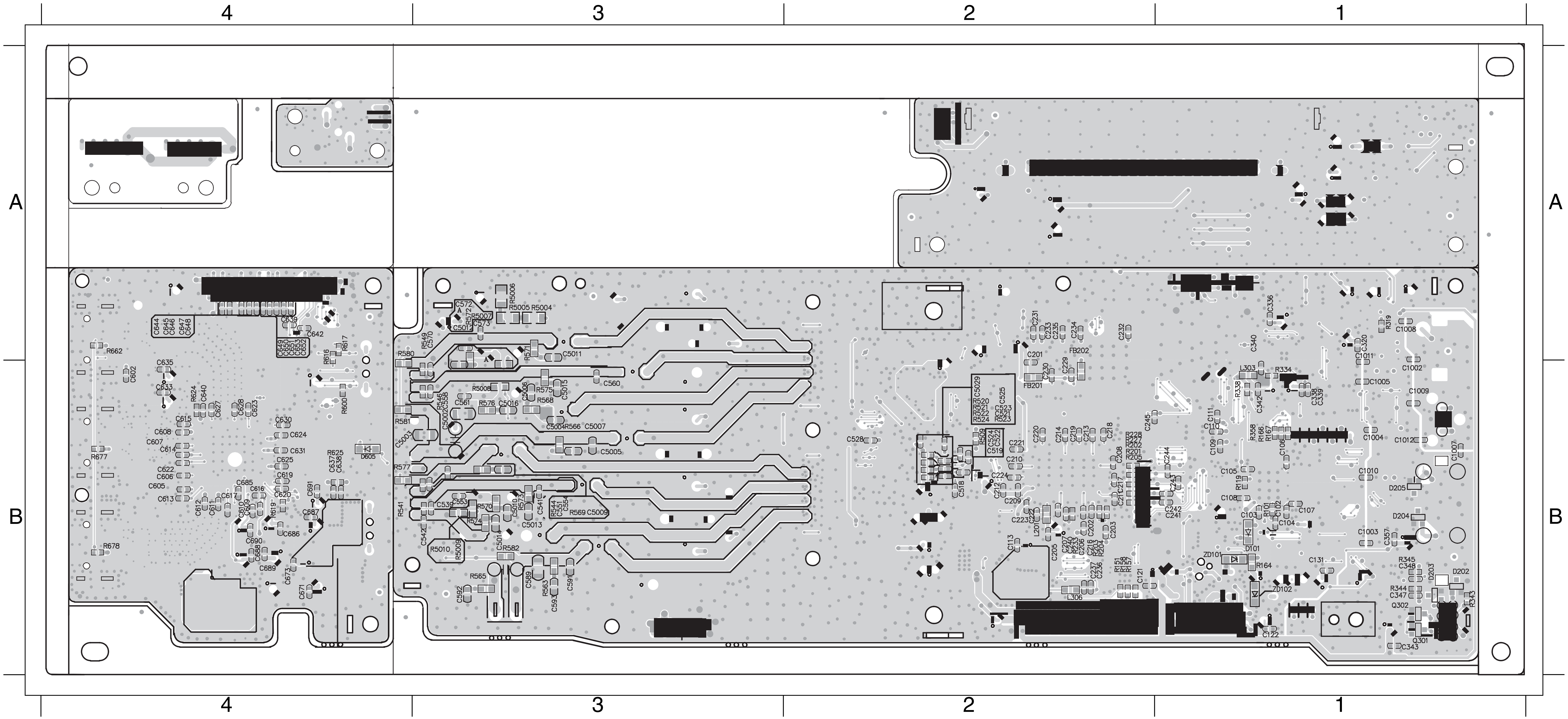
C1003	B1	C106	B1	C205	B2	C219	B2	C235	A2	C340	A1	C5010	B3	C523	B2	C560	B3	C609	B4	C624	B4	C673	B4	Q301	B1	R204	B2	R5009	B3	R566	B3	R582	B3
C1004	B1	C107	B1	C206	B2	C220	B2	C236	B2	C342	B1	C5011	A3	C524	B2	C561	B3	C610	B4	C625	B4	C685	B4	Q302	B1	R205	B2	R5010	B3	R568	B3	R600	B4
C1005	B1	C108	B1	C207	B2	C221	B2	C237	B2	C343	B1	C5012	A3	C525	B2	C570	A3	C611	B4	C627	B4	C686	B4	R101	B1	R227	B2	R520	B2	R569	B3	R616	A4
C1007	B1	C109	B1	C208	B2	C222	B2	C240	B2	C347	B1	C5013	B3	C526	B2	C572	A3	C612	B4	C628	B4	C687	B4	R119	B1	R228	B2	R521	B2	R570	B3	R617	A4
C1008	A1	C110	B1	C209	B2	C223	B2	C241	B1	C348	B1	C5014	B3	C528	B2	C573	A3	C613	B4	C630	B4	C688	B4	R151	B2	R233	B2	R522	B2	R571	A2	R619	B4
C1009	B1	C111	B1	C210	B2	C224	B2	C242	B1	C357	B1	C5015	B3	C530	B2	C589	B3	C614	B4	C631	B4	C689	B4	R157	B2	R334	B1	R523	B2	R572	A3	R624	B4
C1010	B1	C113	B2	C211	B2	C228	B2	C243	B1	C5002	B3	C5016	B3	C539	B3	C591	B3	C615	B4	C633	B4	C690	B4	R158	B2	R344	B1	R524	B2	R573	B3	R625	B4
C1011	A1	C121	B2	C212	B2	C229	B2	C244	B1	C5003	B4	C5029	B2	C541	B3	C592	B3	C616	B4	C635	B4	C691	B4	R164	B1	R345	B1	R541	B4	R574	B3	R662	A4
C1012	B1	C122	B1	C213	B2	C230	B2	C245	B2	C5004	B3	C518	B2	C542	B3	C593	B3	C617	B4	C637	B4	D101	B1	R166	B1	R358	B1	R544	B3	R575	B3	R677	B4
C102	B1	C131	B1	C214	B2	C231	A2	C320	A1	C5005	B3	C519	B2	C551	B3	C602	B4	C619	B4	C638	B4	FB201	B2	R167	B1	R5004	A3	R546	B3	R576	B3	R678	B4
C103	B1	C201	A2	C216	B2	C232	A2	C336	A1	C5006	B3	C520	B2	C553	B3	C606	B4	C620	B4	C639	A4	FB202	A2	R201	B2	R5006	A3	R549	A3	R577	B4	ZD101	B1
C104	B1	C202	B2	C217	B2	C233	A2	C338	B1	C5007	B3	C521	B2	C554	B3	C607	B4	C622	B4	C642	A4	L201	B2	R202	B2	R5007	A3	R563	B3	R580	A4	ZD102	B1



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TOUCH BOARD

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CIRCUIT DIAGRAM

C1	B2	C16	C3	C3	B3	CN1	A3	R23	B3	R26	B3	R29	B3	R31	C3	R34	C3	R6	C1
C14	C3	C17	C3	C6	A3	D1	A2	R24	B3	R27	B3	R3	A2	R32	C3	R4	C1	R7	C1
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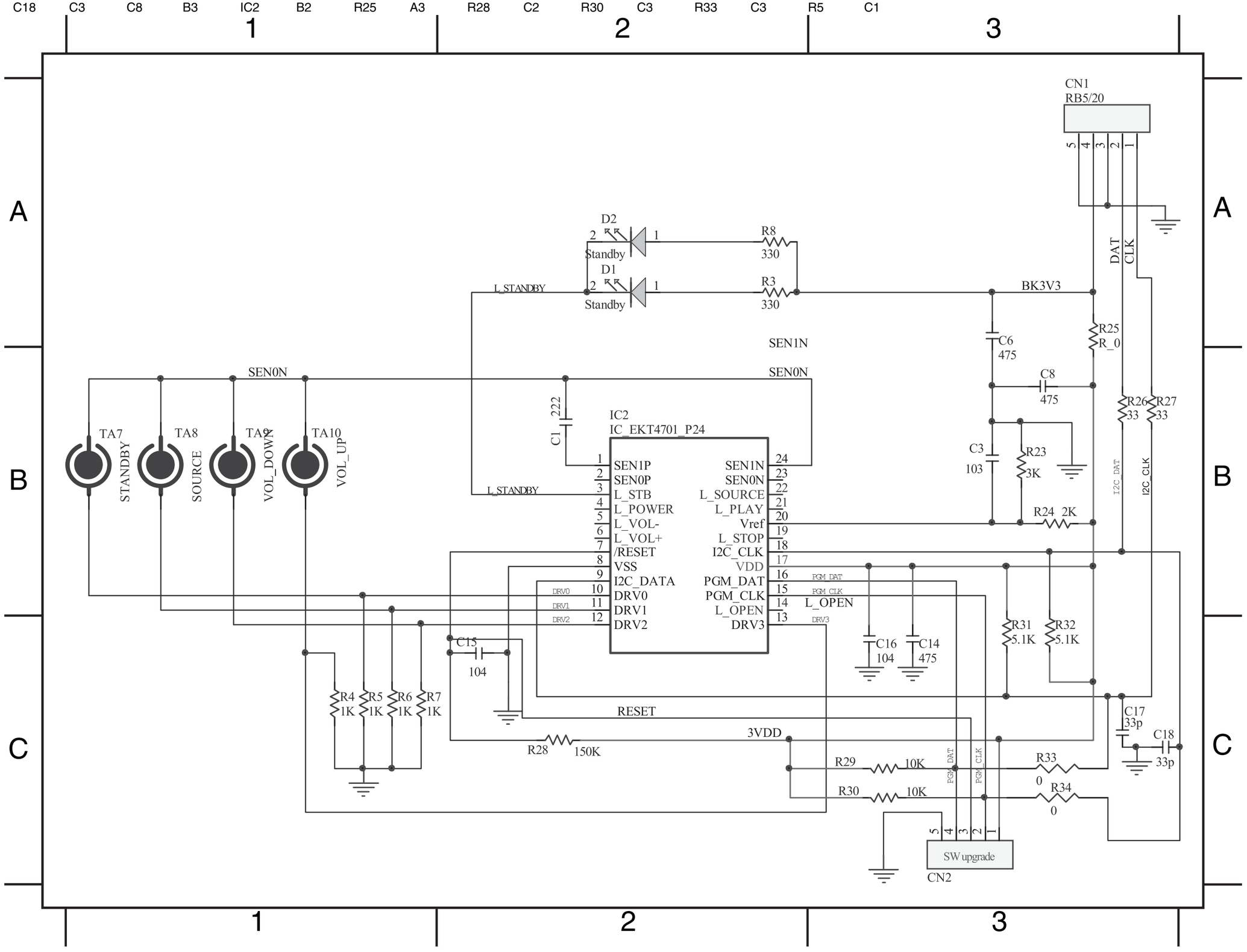

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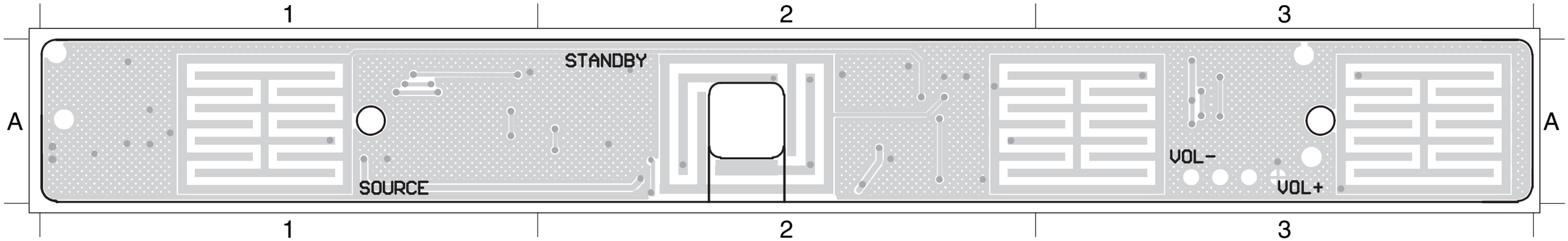
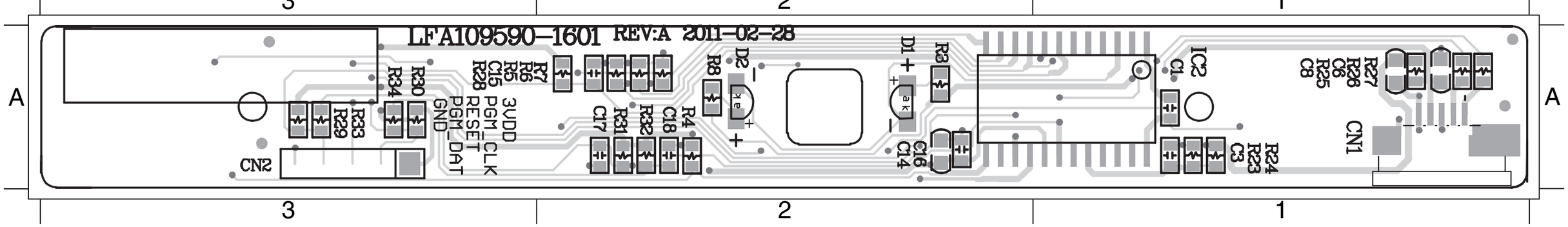
PCB LAYOUT - TOP VIEW



PCB LAYOUT - BOTTOM VIEW

C1	A1	C16	A2	C3	A1	CN1	A1	R23	A1	R26	A1	R29	A3	R31	A2	R34	A3	R6	A2
C14	A2	C17	A2	C6	A1	D1	A2	R24	A1	R27	A1	R3	A2	R32	A2	R4	A2	R7	A2
C15	A2	C18	A2	C8	A1	IC2	A1	R25	A1	R28	A2	R30	A3	R33	A3	R5	A2		



POWER BOARD

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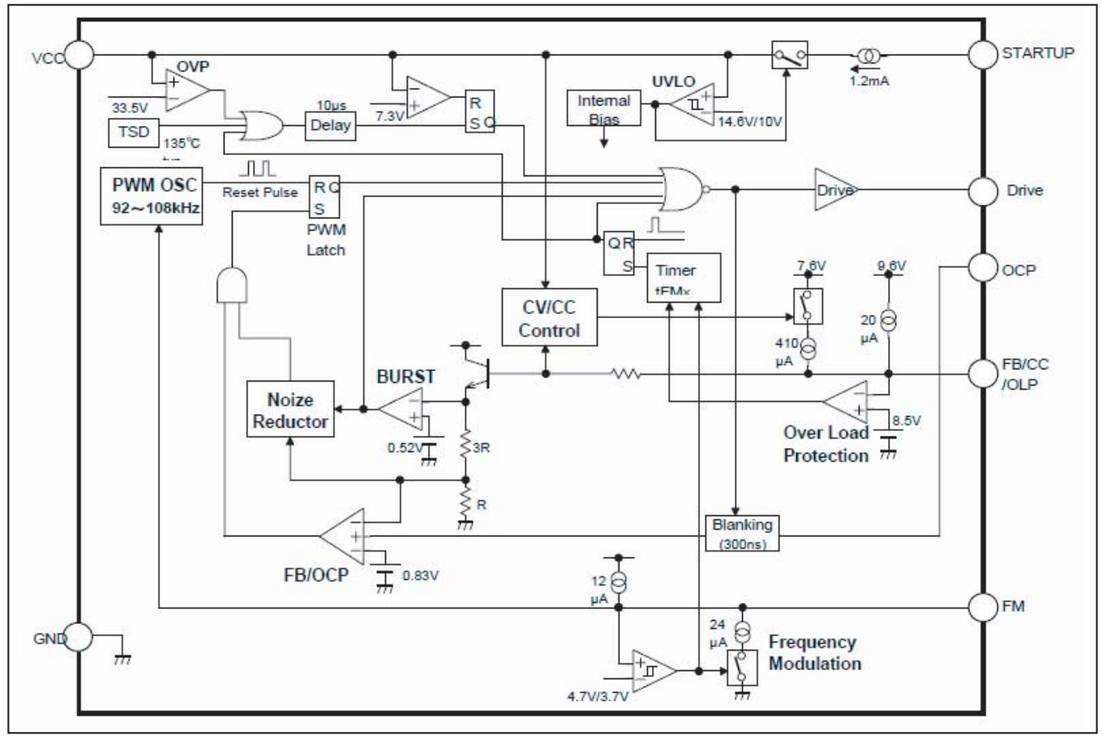
INTERNAL IC DIAGRAM - SSC620S



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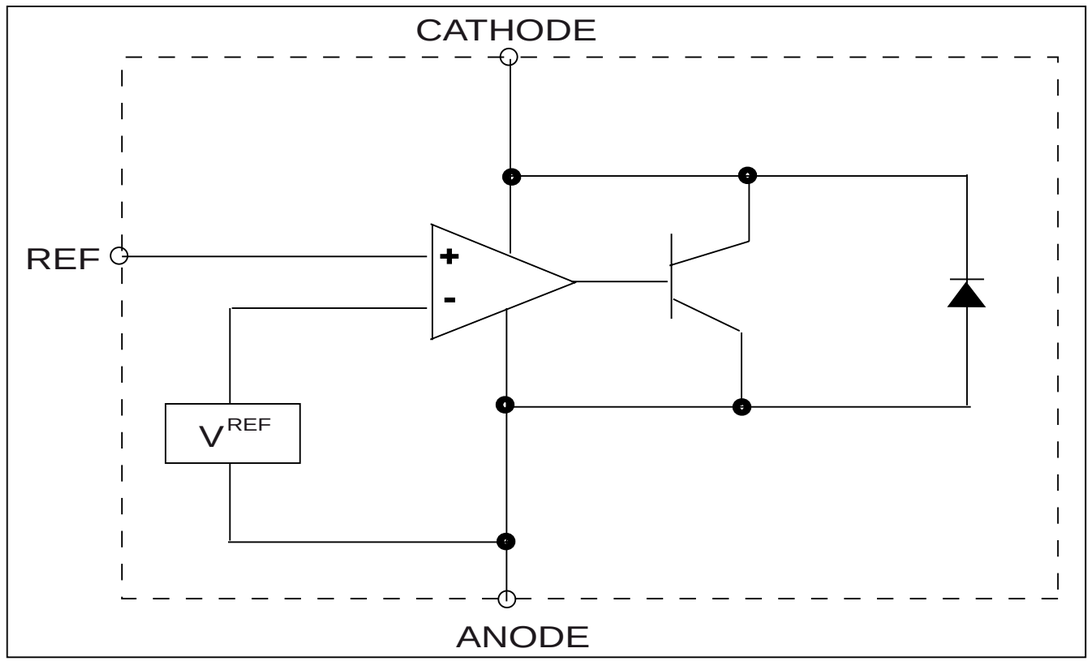

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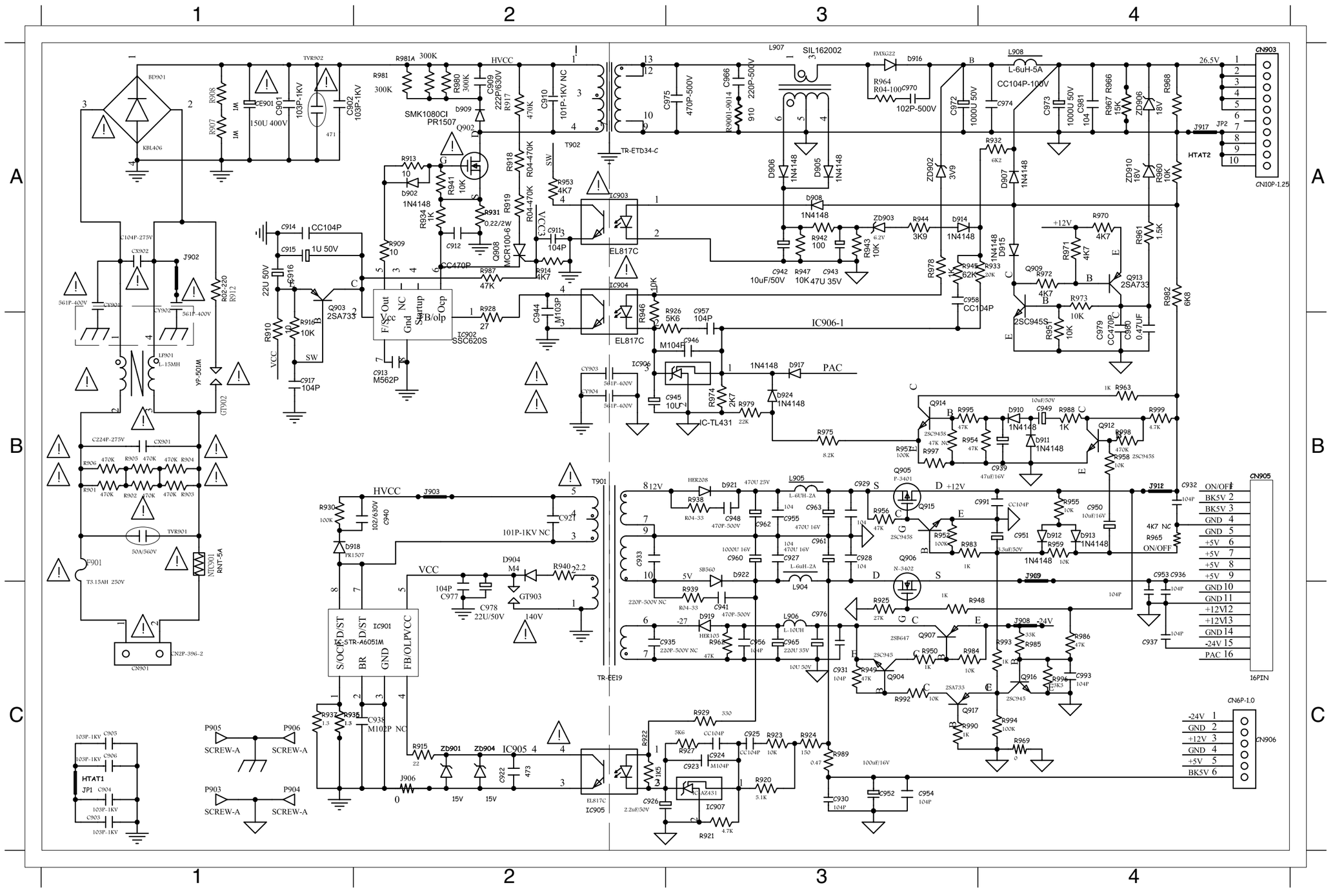
CIRCUIT DIAGRAM

BD901	A1	C917	B1	C936	B4	C949	B4	C961	B3	C979	B4	CY901	A1	D911	B4	D924	B3	IC907	C3	L906	C3	Q907	C3	R9004	A3	R902	B1	R915	C2	R927	C3	R939	C3	R951	B4	R963	B4	R978	A3	R989	C3	T902	A2
C901	A1	C922	C2	C937	C4	C950	B4	C962	B3	C980	B4	CY902	A1	D912	B4	F901	B1	J901	B4	L907	A3	Q908	A2	R9005	A3	R903	B1	R916	B1	R928	B2	R940	B2	R952	B3	R964	A3	R979	B3	R990	C3	TVR901	B1
C902	A1	C923	C3	C938	C2	C951	B4	C963	B3	C981	A4	CY903	B2	D913	B4	GT902	B1	J902	A1	L908	A4	Q909	A4	R9006	A3	R904	B1	R917	A2	R929	C3	R941	A2	R953	A2	R966	A4	R980	A2	R992	C3	ZD901	C2
C904	C1	C924	C3	C939	B4	C952	C3	C965	C3	C991	B4	CY904	B2	D914	A3	GT903	C2	J903	B2	LF901	B1	Q912	C3	R9007	A3	R905	B1	R918	A2	R930	B1	R942	A3	R954	B3	R967	A4	R981	A2	R993	C4	ZD902	A3
C906	C1	C925	C3	C940	B2	C953	B4	C966	A3	C993	C4	D902	A2	D915	A4	IC901	C2	J906	C2	NTC901	B1	Q913	A4	R9008	A3	R906	B1	R919	A2	R931	A2	R943	A3	R955	B4	R968	A4	R981A	A2	R994	C4	ZD903	A3
C909	A2	C926	C2	C941	C3	C954	C3	C970	A3	CE901	A1	D904	B2	D916	A3	IC902	B2	J908	C4	Q902	A2	Q914	B3	R9009	A3	R907	A1	R920	C3	R932	A4	R944	A3	R956	B3	R969	C4	R982	A4	R995	B3	ZD906	A4
C911	A2	C927	B3	C942	A3	C955	B3	C972	A3	CN901	C1	D905	A3	D916	A3	IC903	A2	J909	B4	Q902	A2	Q915	B3	R901	B1	R908	A1	R921	C3	R933	A4	R945	A3	R957	B3	R970	A4	R983	B3	R996	C4	ZD910	A4
C912	A2	C928	B3	C943	A3	C956	C3	C973	A4	CN903	A4	D906	A3	D917	B3	IC904	A2	J911	B4	Q903	A1	Q916	C4	R9010	A3	R909	A2	R922	C2	R934	A2	R946	B3	R958	B4	R971	A4	R984	C3	R998	B4		
C913	B2	C929	B3	C944	B2	C957	B3	C974	A4	CN905	B4	D907	A4	D918	B1	IC905	C2	J912	B4	Q904	C3	Q917	C3	R9011	A3	R910	B1	R923	C3	R935	C1	R947	A3	R959	B4	R972	A4	R985	C4	R999	B4		
C914	A1	C930	C3	C945	B3	C958	A3	C976	C3	CN906	C4	D908	A3	D919	C3	IC906	B2	J917	A4	Q905	B3	R9001	A3	R9012	A3	R912	A1	R924	C3	R936	C1	R948	C3	R960	A4	R973	A4	R986	C4	T901	B2		
C915	A1	C931	C3	C946	B3	C960	B3	C977	C2	CX901	B1	D909	A2	D921	B3	IC906	B2	L904	C3	Q905	B3	R9002	A3	R9013	A3	R913	A2	R925	C3	R937	C1	R949	C3	R961	A4	R974	B3	R987	A2	T901	B2		
C916	A1	C932	B4	C948	B3	C960	B3	C978	C2	CX902	A1	D910	B4	D922	B3	IC907	C3	L905	B3	Q906	B3	R9003	A3	R9014	A3	R914	A2	R926	B3	R938	B3	R950	C3	R962	C3	R975	B3	R988	B4	T902	A2		



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PCB LAYOUT - TOP VIEW

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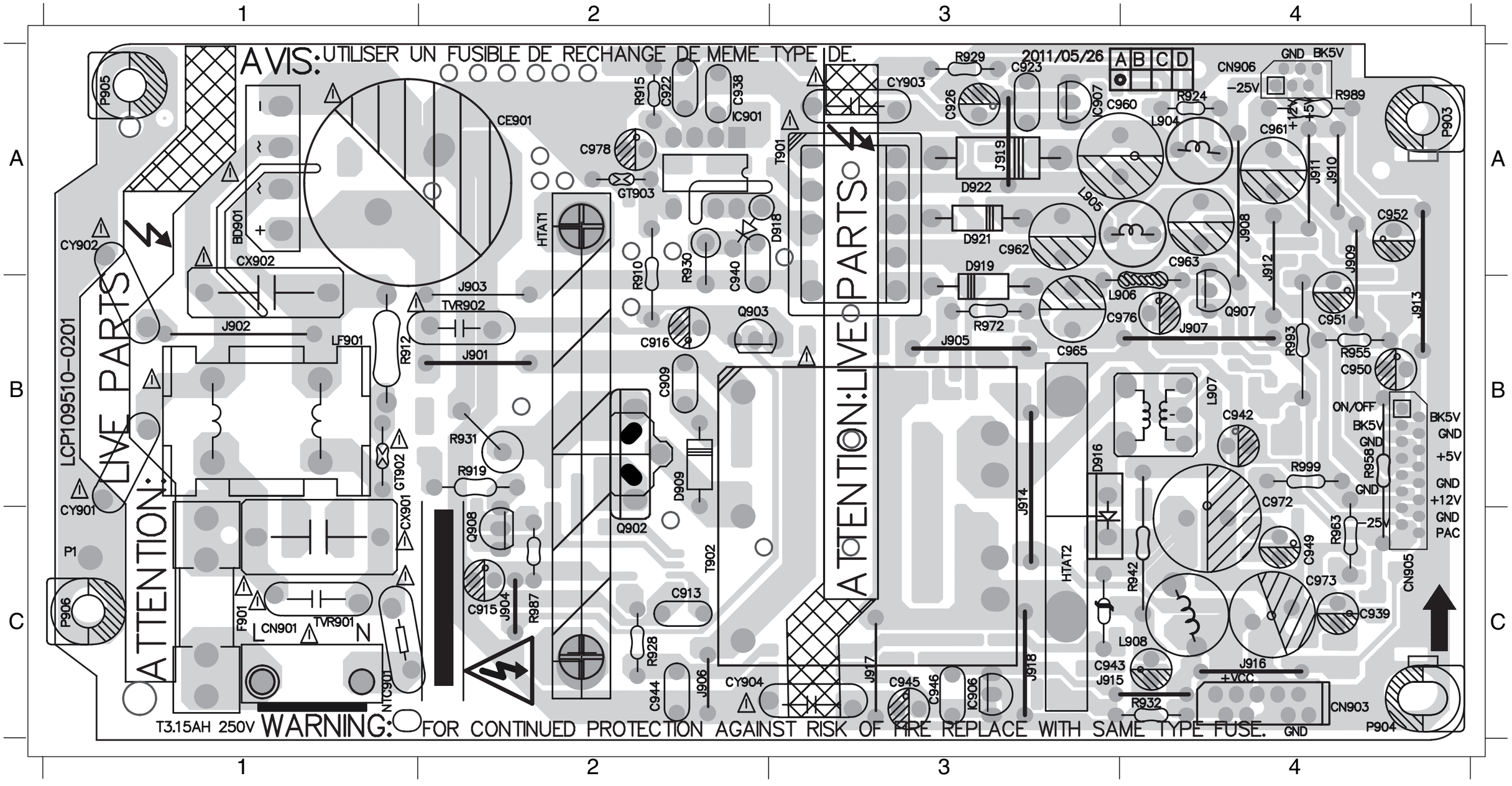
C909	B2	C926	A3	C944	C2	C952	A4	C965	B3	CN901	C1	CY901	B1	D916	B3	GT902	B1	IC907	A3	J906	C2	J912	B4	J918	C3	LF901	B1	Q908	C2	R928	C2	R955	B4	R993	B4	TVR901	C1
C913	C2	C938	A2	C945	C3	C960	A3	C972	B4	CN903	C4	CY902	A1	D918	A3	GT903	A2	J901	B2	J907	B4	J913	B4	L904	A4	NTC901	C1	R910	B2	R929	A3	R958	B4	R999	B4		
C915	C2	C939	C4	C946	C3	C960	A3	C973	C4	CN905	C4	CY903	A3	D919	A3	IC901	A2	J902	B1	J908	A4	J914	B3	L905	A3	Q902	C2	R912	B1	R930	B2	R963	C4	T901	A3		
C916	B2	C940	B2	C949	C4	C961	A4	C976	B3	CN906	A4	CY904	C2	D921	A3	IC906	C3	J903	B2	J909	A4	J915	C3	L906	B3	Q903	C2	R915	A2	R931	B2	R972	C4	T901	A3		
C922	A2	C942	B4	C950	B4	C962	A3	C978	A2	CX901	B1	D909	B2	D922	A3	IC906	C3	J904	C2	J910	A4	J916	C4	L907	B4	Q903	B2	R919	B2	R932	C4	R987	C2	T902	C2		



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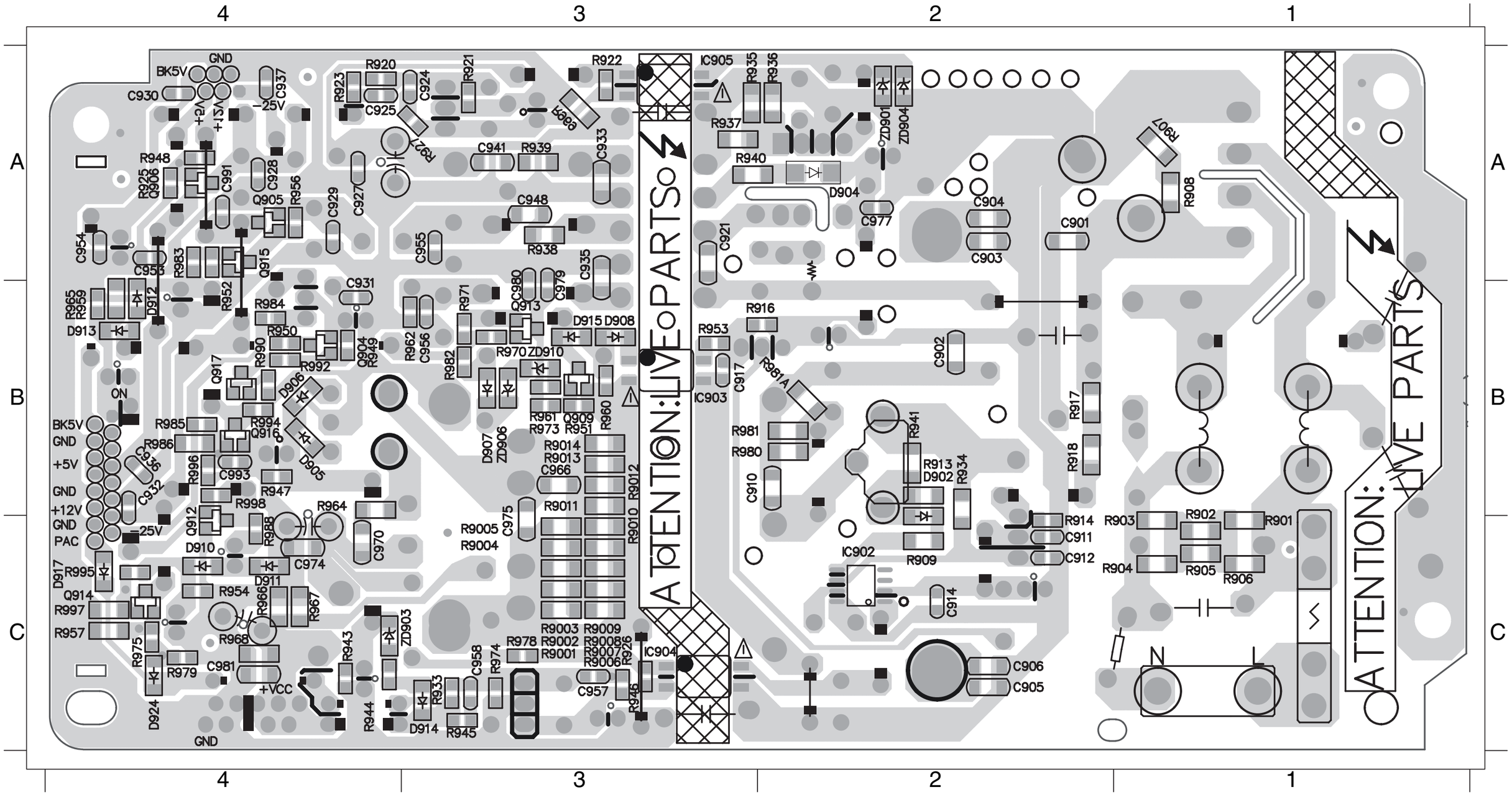
PCB LAYOUT - BOTTOM VIEW

C901	A2	C925	A4	C941	A3	C970	C4	D904	A2	D914	C3	Q905	A4	Q917	B4	R9009	C3	R904	C2	R917	B2	R933	C3	R943	C4	R952	B4	R964	B4	R975	C4	R985	B4	ZD901	A2
C902	B2	C927	A4	C948	A3	C974	C4	D905	B4	D915	B3	Q905	A4	R9001	C3	R901	C1	R905	C1	R918	B2	R934	B2	R944	C4	R953	B3	R966	C4	R978	C3	R986	B4	ZD903	C3
C904	A2	C928	A4	C953	A4	C977	A2	D906	B4	D917	C4	Q906	A4	R9002	C3	R9010	C3	R906	C1	R920	A4	R935	A3	R945	C3	R954	C4	R967	C4	R979	C4	R988	C4	ZD906	B3
C906	C2	C929	A4	C954	A4	C979	B3	D907	B3	D924	C4	Q909	B3	R9003	C3	R9011	B3	R907	A1	R921	A3	R936	A2	R946	C3	R956	A4	R968	C4	R980	B3	R990	B4	ZD910	B3
C911	C2	C930	A4	C955	A3	C980	B3	D908	B3	IC902	C2	Q912	B4	R9004	C3	R9012	B3	R908	A1	R922	A3	R937	A3	R947	B4	R957	C4	R969	A3	R981	B3	R992	B4		
C912	C2	C931	B4	C956	B3	C981	C4	D910	C4	IC903	B3	Q913	B3	R9005	C3	R9013	B3	R909	C2	R923	A4	R938	A3	R948	A4	R959	B4	R970	B3	R981A	B2	R994	B4		
C914	C2	C932	B4	C957	C3	C991	A4	D911	C4	IC904	C3	Q914	C4	R9006	C3	R9014	B3	R913	B2	R925	A4	R939	A3	R949	B4	R960	B3	R971	B3	R982	B3	R995	C4		
C917	B3	C936	B4	C958	C3	C993	B4	D912	B4	IC905	A3	Q915	A4	R9007	C3	R902	C1	R914	C2	R926	C3	R940	A3	R950	B4	R961	B3	R973	B3	R983	A4	R996	B4		
C924	A3	C937	A4	C966	B3	D902	B2	D913	B4	Q904	B4	Q916	B4	R9008	C3	R903	C2	R916	B3	R927	A3	R941	B2	R951	B3	R962	B3	R974	C3	R984	B4	R998	B4		



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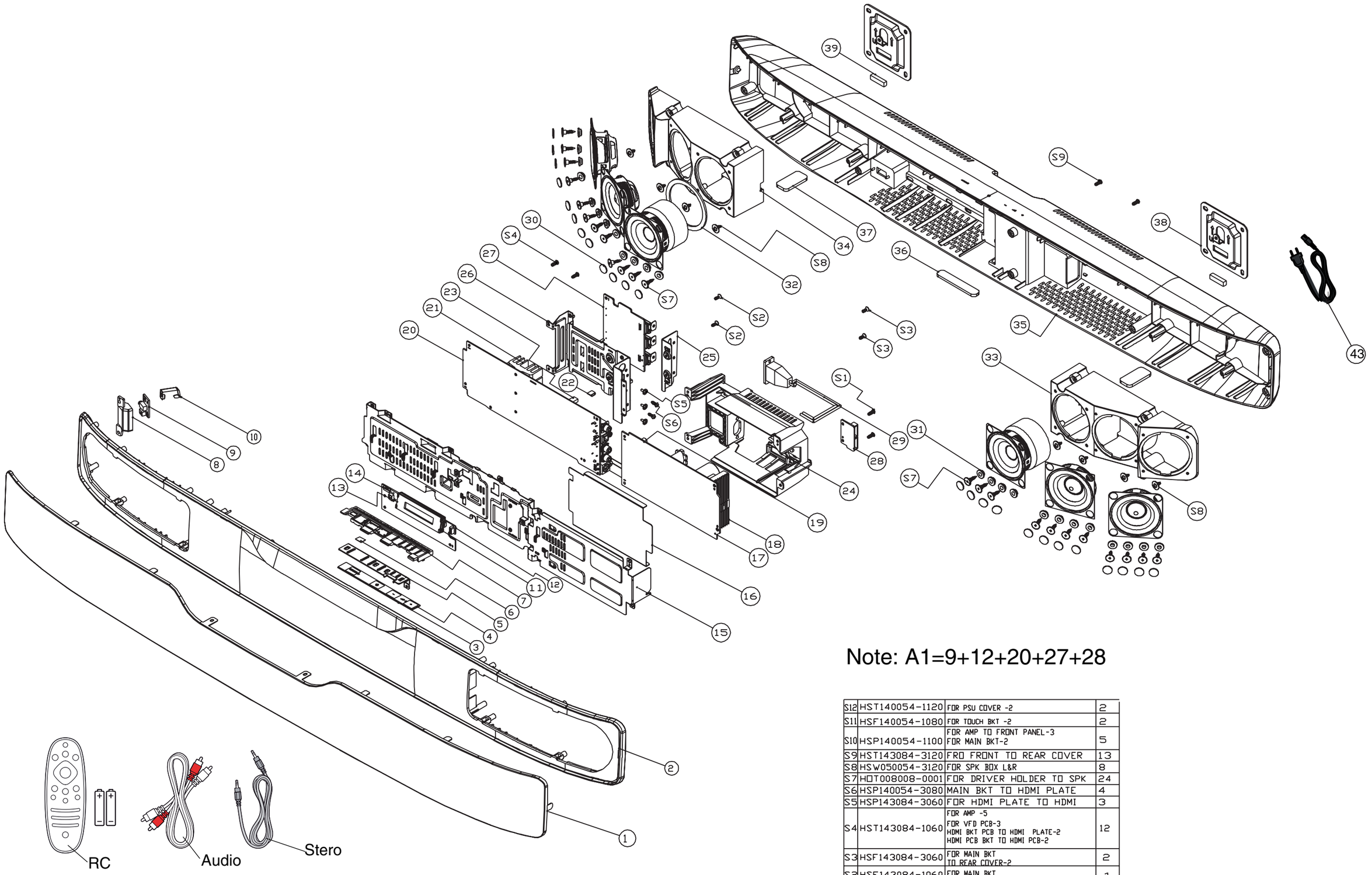
Mechanical Exploded View



Note: A1=9+12+20+27+28

NO	PART NUMBER	DESCRIPTION	Q'TY
S12	HST140054-1120	FOR PSU COVER -2	2
S11	HSF140054-1080	FOR TOUCH BKT -2	2
S10	HSP140054-1100	FOR AMP TO FRONT PANEL-3 FOR MAIN BKT-2	5
S9	HST143084-3120	FRO FRONT TO REAR COVER	13
S8	HSW050054-3120	FOR SPK BOX L&R	8
S7	HOT008008-0001	FOR DRIVER HOLDER TO SPK	24
S6	HSP140054-3080	MAIN BKT TO HDMI PLATE	4
S5	HSP143084-3060	FOR HDMI PLATE TO HDMI	3
S4	HST143084-1060	FOR AMP -5 FOR VFD PCB-3 HDMI BKT PCB TO HDMI PLATE-2 HDMI PCB BKT TO HDMI PCB-2	12
S3	HSF143084-3060	FOR MAIN BKT TO REAR COVER-2	2
S2	HSF143084-1060	FOR MAIN BKT TO JACK PLATE-1	1
S1	HSP140054-1080	FOR PSU HEATSINK-2 FOR TOUCH PCB-4 FOR MP3 COVER-2	8

REVISION LIST

Version 1.0
*Initial release