DVD Player

HTS5510C/75/98

Service
Service
Service

Service Manual

CLASS 1
LASER PRODUCT

MP3-CD PLAYBACK

DVD VIDEO

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

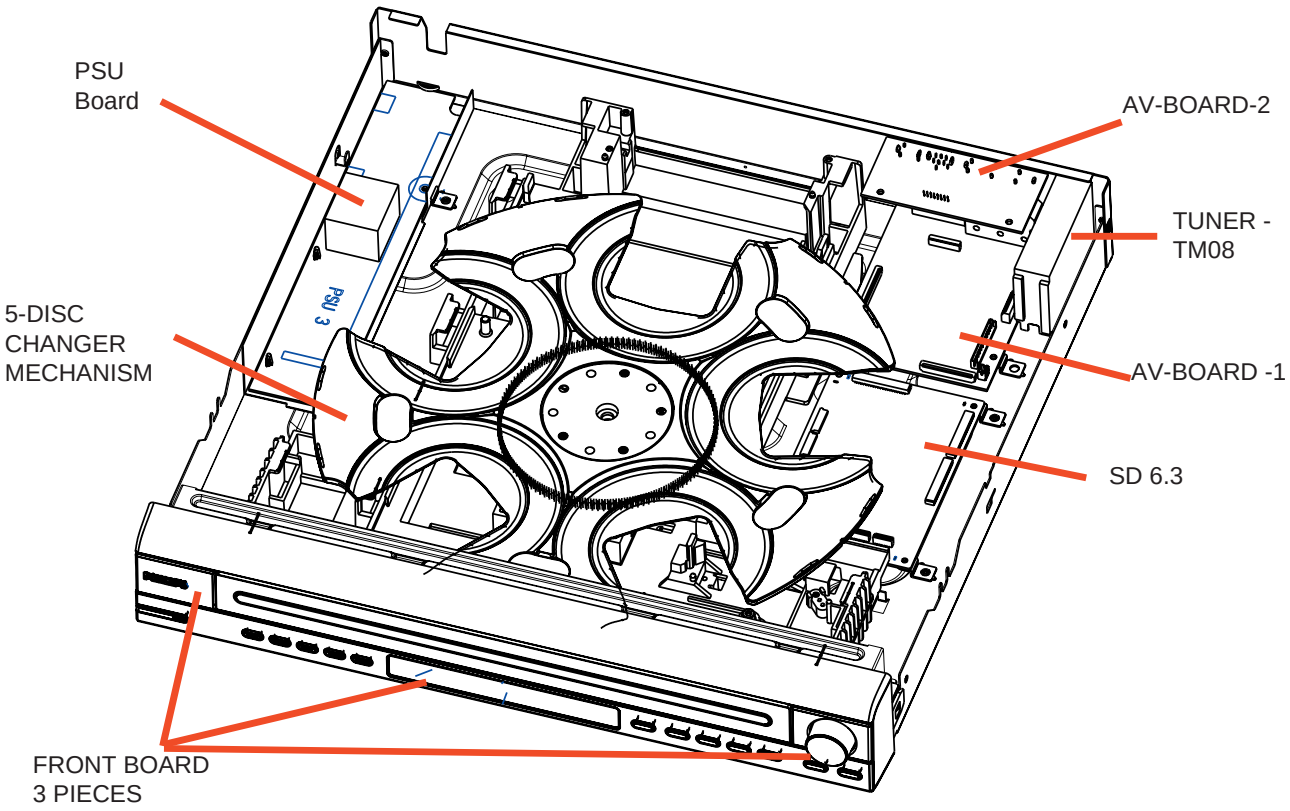
Published by KC-TE 0519 AV Systems | Printed in the Netherlands | Subject to modification | EN 3139 785 31570

Version 1.0

PHILIPS

1. Technical Specifications and Connection Facilities

LOCATION OF PC BOARDS



VERSION VARIATIONS:

Features & Board in used: / Type / Versions:	HTS5500C	
	75	98
Progressive Scan	X	X
Control Line To Power Box	X	X
Audio Output	X	X
Audio Input	X	X
Power Box (Easy Fit)	X	X
Video Output	X	X
S-Video Output	X	X
Y/Pb/Pr (YUV) Component Video Output	X	X

Technical Specifications

General:

Mains voltage	:	120V ± 15% 240V ± 15%
Mains frequency	:	50/60Hz
Power consumption	:	<= 0.5W at standby (Center Unit) <= 0.5W at standby (Subwoofer) <= 25W at 1/8 P_{rated} (Center Unit)
Dimension (w x h x d)	:	360 x 40 x 305mm

Tuner

FM

Tuning range	:	87.5-108MHz
Grid	:	50kHz /01 100kHz /97
IF frequency	:	10.7MHz ± 25kHz
Aerial input	:	75Ω coaxial
Sensitivity at 26dB S/N	:	< 7µV
Selectivity at 600kHz bandwidth	:	> 25dB
IF rejection	:	> 60dB
Image rejection	:	> 25dB
Distortion at RF=1mV, dev. 75kHz	:	< 3%
-3dB Limiting point	:	8µV
Crosstalk at RF=1mV, dev. 67.5kHz	:	> 28dB
Crosstalk at RF=1mV, dev. 40kHz	:	> 18dB /97

MW

Tuning range	:	531-1602kHz 530-1700kHz for /98
Grid	:	9kHz 10kHz /97
IF frequency	:	450kHz ± 1kHz
Aerial input	:	Frame aerial
Sensitivity at 26dB S/N	:	< 4.0mV/m
Selectivity at 18kHz bandwidth	:	> 20dB
IF rejection	:	> 45dB
Image rejection	:	> 28dB
Distortion at RF=50mV, m=80%	:	< 5%

AMPLIFIER:

Output power	:	900W RMS
Front	:	150W RMS / channel
Rear	:	150W RMS / channel
Centre	:	150W RMS
Subwoofer	:	150W RMS
Frequency response	:	20Hz-50kHz / -3dB
Signal-to-noise ratio	:	> 65dB (CCIR)
Input sensitivity		
Aux In	:	1V at 39kΩ
Scart In	:	500mV at 39kΩ
Output sensitivity		
Line Out (Left/Right)	:	0.7V ± 2dB at 47kΩ
Scart Out (Left/Right)	:	0.6V ± 2dB at 10kΩ

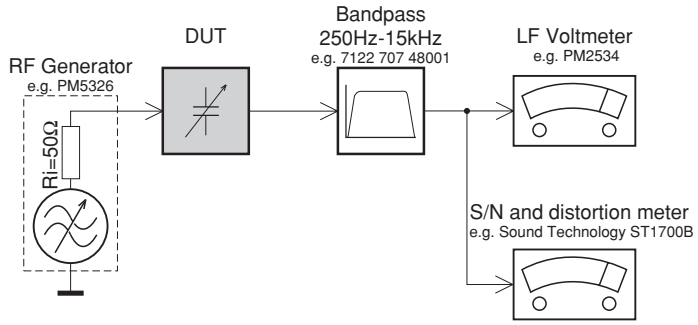
COMPACT DISC/VCD/DVD:

Video Decoding	:	MPEG-1/MPEG-2/ MPEG-4/DivX 3.11, 4.x & 5.x
Video DAC	:	12 Bits, 108MHz
Signal System	:	PAL / NTSC
Video Format	:	4:3 / 16:9
Video S/N	:	56dB (minimum)
CVBS Out [1]		
CVBS level	:	1.0 ± 0.1 V_{p-p}
Luminance S/N	:	>= 55dB
S-Video Out [1]		
Y level	:	1.0 ± 0.1 V_{p-p}
Y S/N	:	>= 60dB
C level (burst)	:	286m V_{p-p} +1/-4dB
RGB/YUV Out [1]		
Amplitude	:	0.7 ± 0.1 V_{p-p}
S/N	:	>= 60dB

[1] Output terminals to be terminated with 75Ω
[2] @ THD = 10%, 1kHz Sinewave except Subwoofer @ 100Hz Sinewave

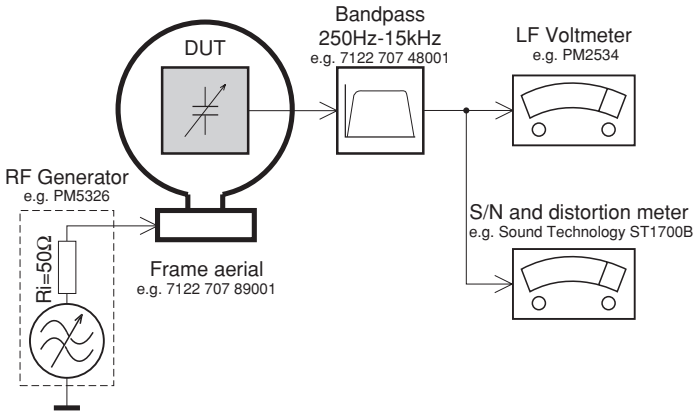
MEASUREMENT SETUP

Tuner FM



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

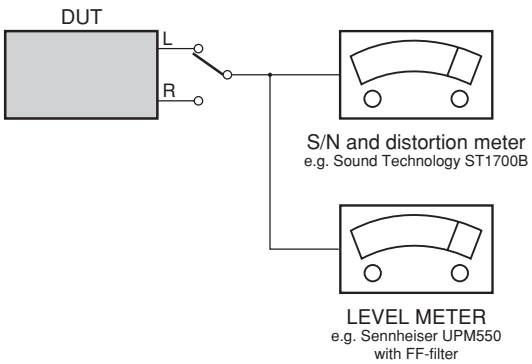
Tuner AM (MW,LW)



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday´s cage.
Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz, 100Hz).

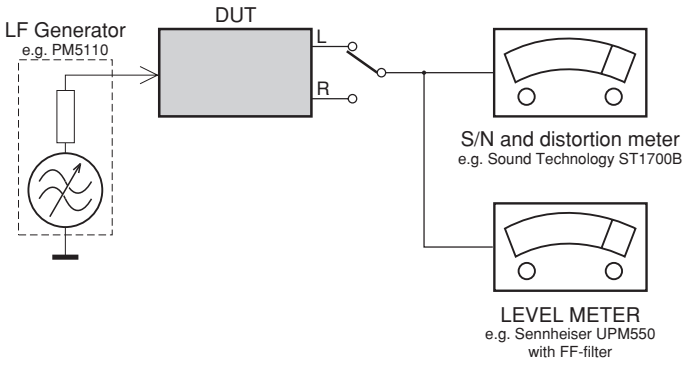
CD

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



Recorder

Use Universal Test Cassette **CrO2** SBC419 4822 397 30069
or Universal Test Cassette **Fe** SBC420 4822 397 30071



SERVICE AIDS

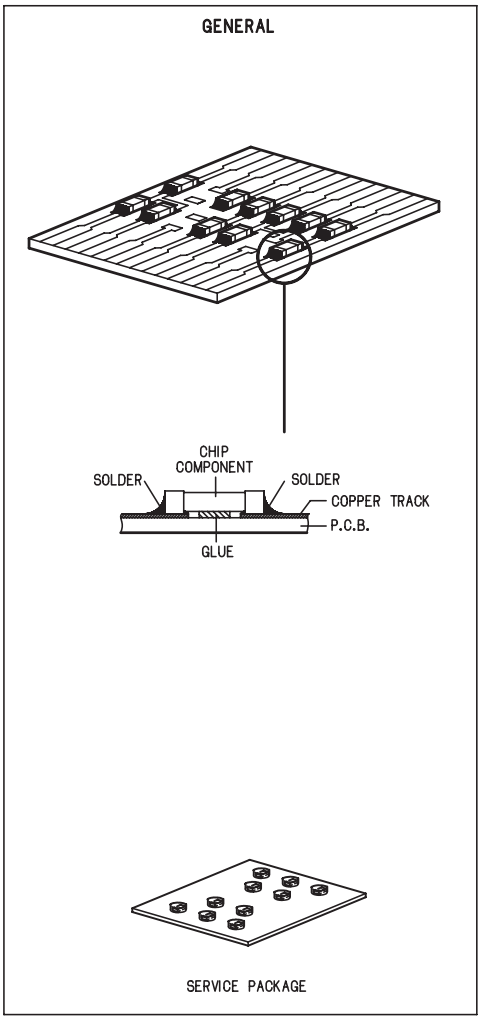
Service Tools:

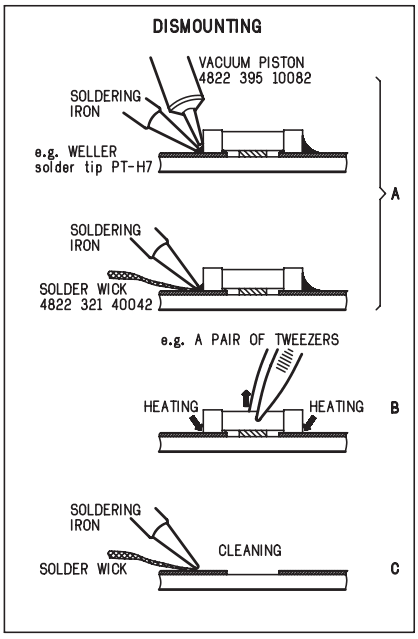
Universal Torx driver holder 4822 395 91019
Torx bit T10 150mm 4822 395 50456
Torx driver set T6 - T20 ..... 4822 395 50145
Torx driver T10 extended 4822 395 50423

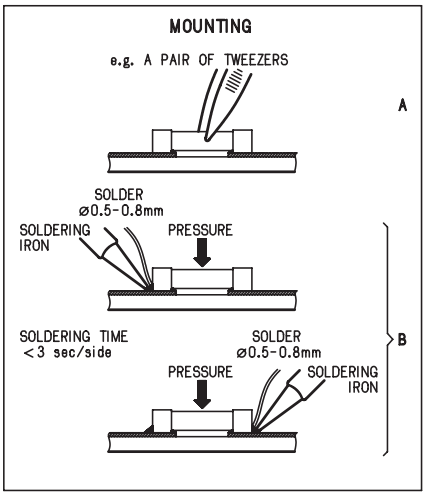
Compact Disc:

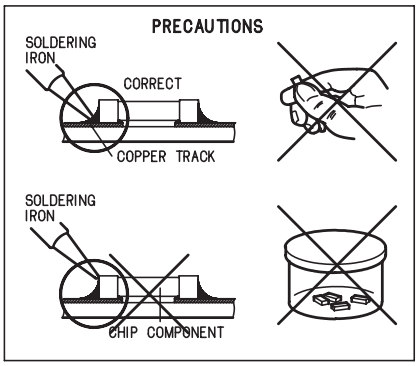
SBC426/426A Test disc 5 + 5A 4822 397 30096
SBC442 Audio Burn-in Test disc 1kHz 4822 397 30155
SBC429 Audio Signals disc 4822 397 30184
Dolby Pro-logic Test Disc 4822 395 10216

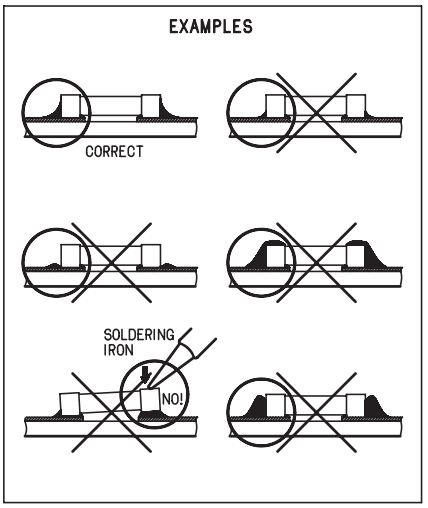
HANDLING CHIP COMPONENTS











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, extention 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 symbool ⚠

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.

CLASS 1
LASER PRODUCT

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".

Lead Free Requirements

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 un-used 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.

2. Dismantling Instructions

2.1 Dismantling of the SD5.5_5dis changer

1) The tray can be manually open by inserting a minus screw drive and push the lever in the direction as shown in Figure 1 to unlock the tray before sliding it out.

2) Slide out the tray and remove the Cover Tray (pos 110) as shown in Figure 2.

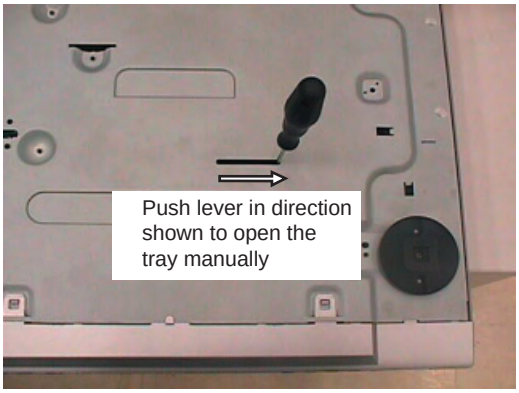


Figure 1

3) Loosen 7 screws to remove the Front Top.(pos 240)
   - 2 screw each on the left & right side (pos 272)
   - 3 screws A behind

4) Loosen 6 screws G (see Figure 4a and 4b) to remove the SD5.5_5dis changer.

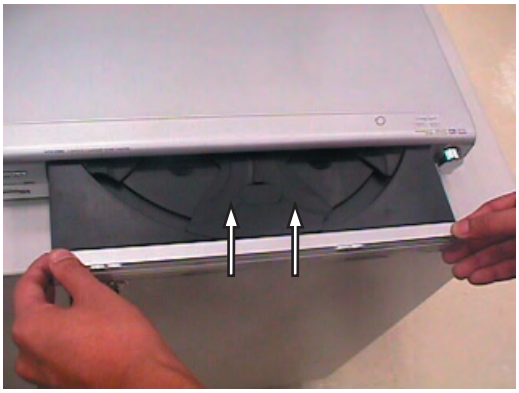


Figure 2

2.2 Dismantling of the Tuner Module, AV Board, SD6.3 ,Front Board, PSU Module

1) Loosen 2 screw B (see Figure 3a) to remove the Tuner Module (pos 1040).

2) Loosen 4 screws C (see Figure 3b) to remove AV Board 1.

3) Loosen 4 screws D (see Figure 3c) and 2 screws H (see Figure 4a) to remove AV Board 2.

4) Loosen 2 screws E (see Figure 4a) to remove the PSU Module.

5) Loosen 6 screws I (see Figure 4a) and 4 snap hooks to remove Front Board.
   - 1 snap hook each on the left & right side (pos 161).
   - 2 snap hooks on the bottom side (pos 161).

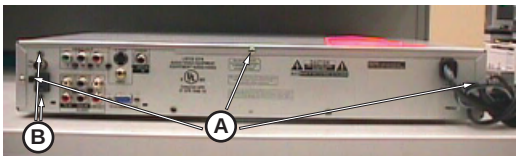


Figure 3a

Figure 3b

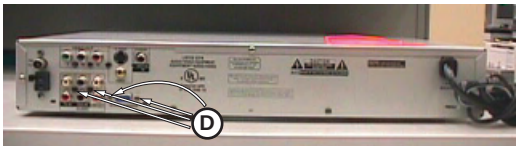


Figure 3c

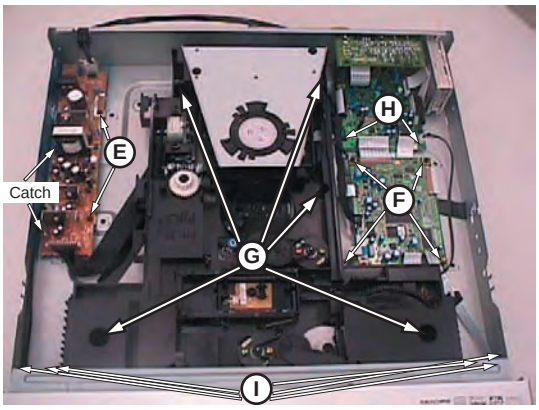


Figure 4a

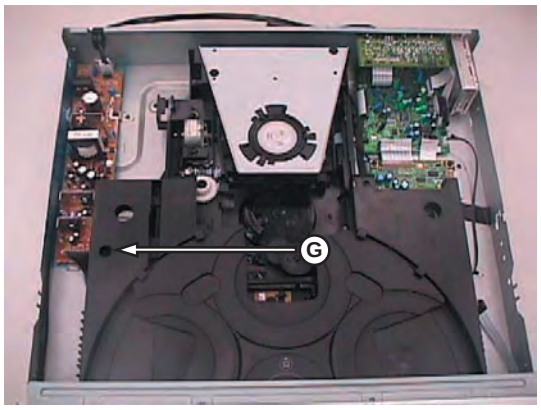


Figure 4b

2.3 Service Positions

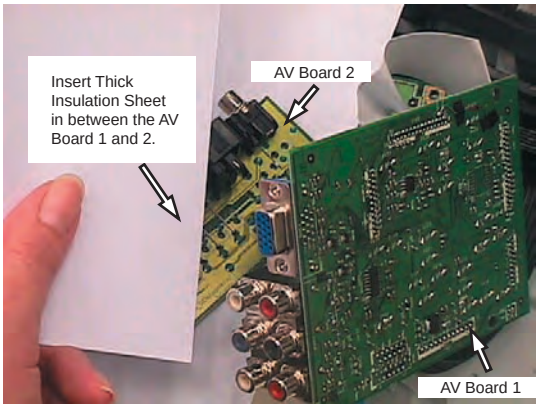


Figure 5

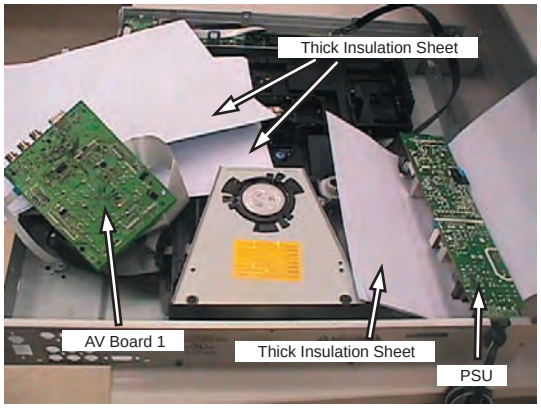


Figure 6

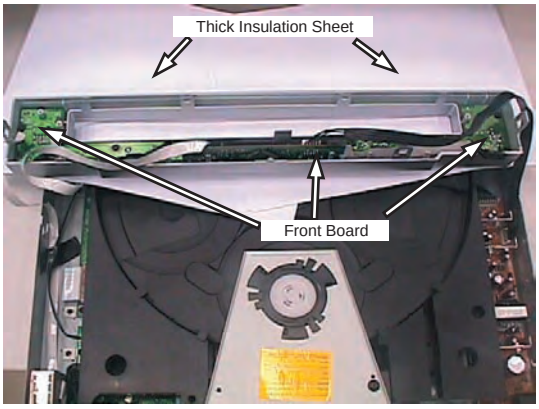


Figure 7

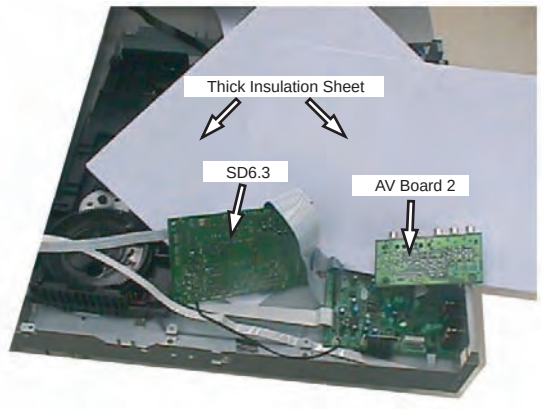
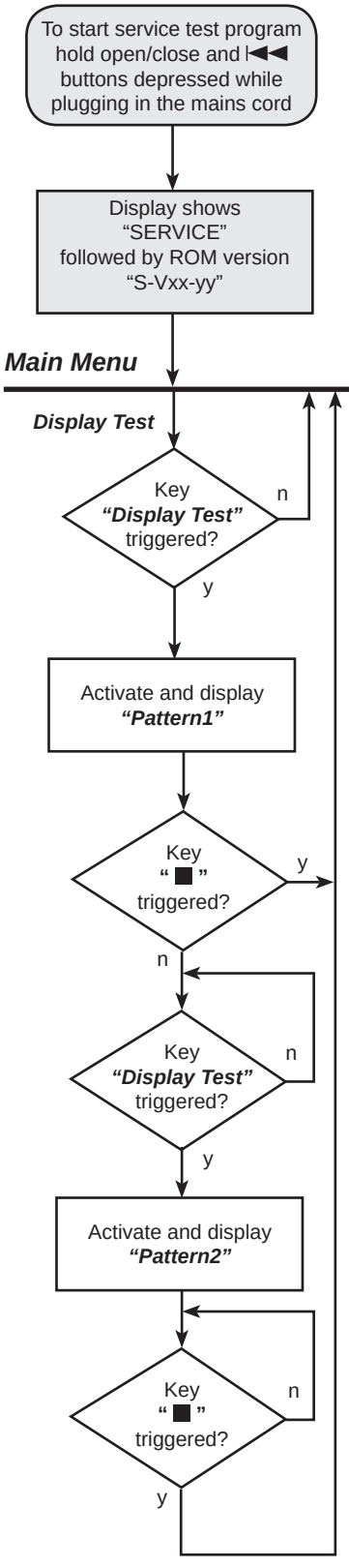


Figure 8

3. Diagnostic Software

Service test program



Hold open/close and |◄◄ buttons depressed till the Display shown "S-Vxx-yy"

S refers to Service Mode
V refers to Version
xx refers to Software version number of BEA (counting up from 01 to 99)
yy refers to Software version number of Front uP (counting up from 01 to 99)

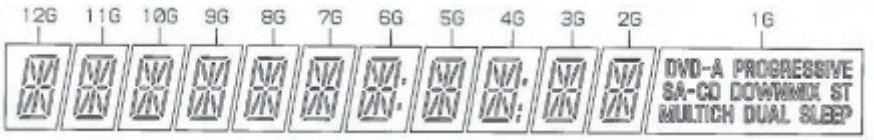
Display Test

Following display patterns are used to test the display and its connections to µP.

Pattern 1:

All display control pins are ON
All LEDs are ON.

- to check for open-circuits



Pattern 2:

Alternate display control pins are ON (Test Pattern: 0x55)
The following LEDs are ON:
DiscAvailable1
DiscAvailable3
DiscAvailable5
DiscActive2
DiscActive4

- to check for short-circuits

(tbd)

TEST	Activated with	ACTION
EEPROM FORMAT TEST	DISC 1	Load default data. Display shows "NEW". **Caution! All presets from the customer will be lost!!**
ROTARY ENCODER TEST	Volume Knob	Display shows value for 2 seconds. Volume values increases or decreases in steps of 1 until 0 (VOL MIN) or 40 (VOL MAX) is reached.
LEAVE SERVICE TEST PROGRAM	Disconnect mains cord	

Reprogramming of DVD version Matrix

After repair, the customer setting and region code may be lost. Reprogramming will put the set back in the state in which it has left the factory, ie. with the default setting and the allowed region code.

HTS5x00 Software Version Matrix					
	Model	**Key Sequence**	**Region**	**Region Code**	**TV Type**
1	HTS5510C/75	Open Tray 9999 Audio 4	Australia	4	PAL
2	HTS5510C/98	Open Tray 9999 Audio 5	AP	3	PAL

To reprogram do as follows:

1) Power up the set and select **DISC** source.
2) Open tray by press “OPEN/CLOSE” button on the set or press and hold “STOP” button on the RC.
3) Press the following buttons on the Remote Control:
   <9> <9> <9> <9> <AUDIO> <4> ..... for HTS5510C/75
   <9> <9> <9> <9> <AUDIO> <5> ..... for HTS5510C/98
4) The display shows **‘YYYY-ZZ’** and the tray will close.
   YYYY = model number (eg. 8300, 8500, etc.)
   ZZ = slash stroke version (eg. 01, 69, etc.)

Procedure for check Software version

1) Power up the set and select **DISC** source.
2) Open tray by press “OPEN/CLOSE” button on the set or press and hold “STOP” button on the RC.
3) Press “DISPLAY” button on the Remote control.
4) The TV screen will shows:

   SD6.3 Vxx YYYY-ZZ A BB
   SERVO: nnnnnnnn REG:A

   xx = version number
   YYYY = model number (eg. 8300, 8500, etc.)
   ZZ = slash stroke version (eg. 01, 69, etc.)
   A = region code
   BB = Front uP software version number
   nnnnnnnn = servo version number

Procedure to upgrade software

1) Power up the set and select **DISC** source.
2) Open tray by press “OPEN/CLOSE” button on the set or press and hold “STOP” button on the RC.
3) Place Upgrade CD-ROM with filename “HTS5500.bin” onto tray and close.
4) The set will response and display the following:
   - **LOAD** (After the disc is read, the tray will open for you to remove the disc)
   - **ERASE** (Erasing disc)
   - **WRITE** (Writing disc)
   - **ERROR** (if upgrade is unsuccessful)
   - **UPG END** (if upgrade is successful)
   - **DISC->CLOSE->LOAD** (Tray will close indicating that the upgrade process is completed)
5) The whole process should not take more than 5 minutes.

Caution: Do not unplug the set until upgrade is completed.

Trade Mode

Trade mode is a feature that will block all set keys when enabled. It is for dealers to prevent customers from removing disc, changing source etc using the set keys. Rotary and Remote Control (RC) keys are still allowed inTrade mode.

To activate Trade Mode:

1) Power up the set and select **DISC** source.
2) Open tray by press “OPEN/CLOSE” button on the set or press and hold “STOP” button on the RC.
3) Then press buttons <2> <5> <9> on the RC.
4) The display shows **‘TRA ON’** and the tray will close. Trade Mode is now enabled.

To deactivate Trade Mode:

1) Power up the set and select **DISC** source.
2) Open tray by press and hold “STOP” button on the RC.
3) Then press buttons <2> <5> <9> on the RC.
4) The display shows **‘TRA OFF’** and the tray will close. Trade Mode is now disabled.

Procedure to change Tuner Grid (not for all versions)

In North and South America, the frequency step between adjacent channels in the MW band is 10kHz (9kHz in some areas). The preset frequency step in the factory is 9kHz.

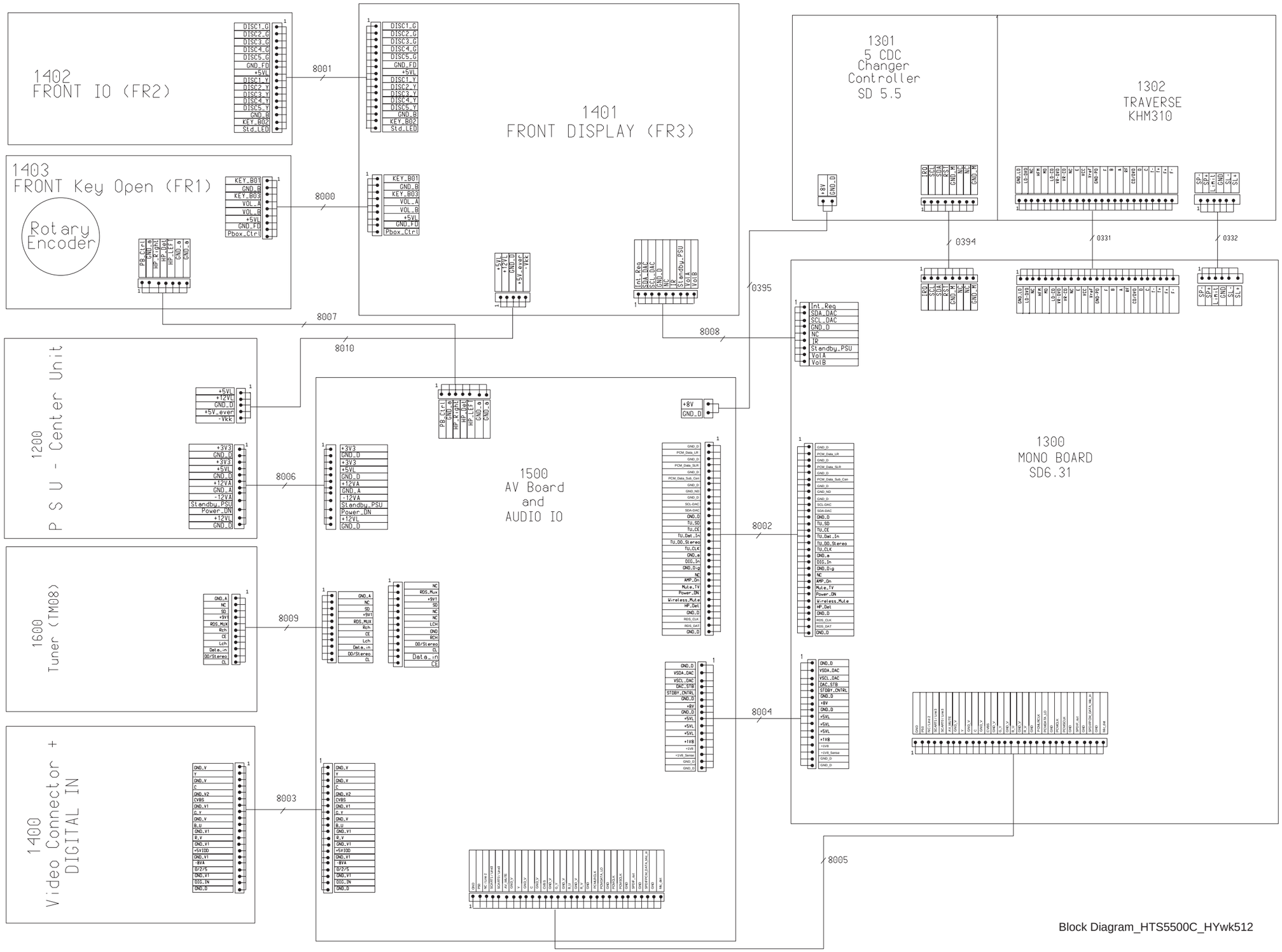
IMPORTANT!
Changing the tuning grid will erase all previously stored preset radio stations.

1) Press **TUNER** on the remote (or press **SOURCE** control on front panel) to select “**FM**” or “**MW**”.
2) Press **STANDY ON** to switch the DVD system to standby mode.
3) While holding down **SOURCE** and |◄◄ **PREV** on the front panel, disconnect and connect the power cord to the power supply again.
   -> The display will show “**GRID 9**” or “**GRID 10**”.

   Helpful hints:
   - *GRID 9 and GRID 10 indicate that the tuning grid is in step of 9kHz and 10kHz respectively.*
   - *The FM tuning grid also will be changed from 50kHz to 100kHz or vice versa.*

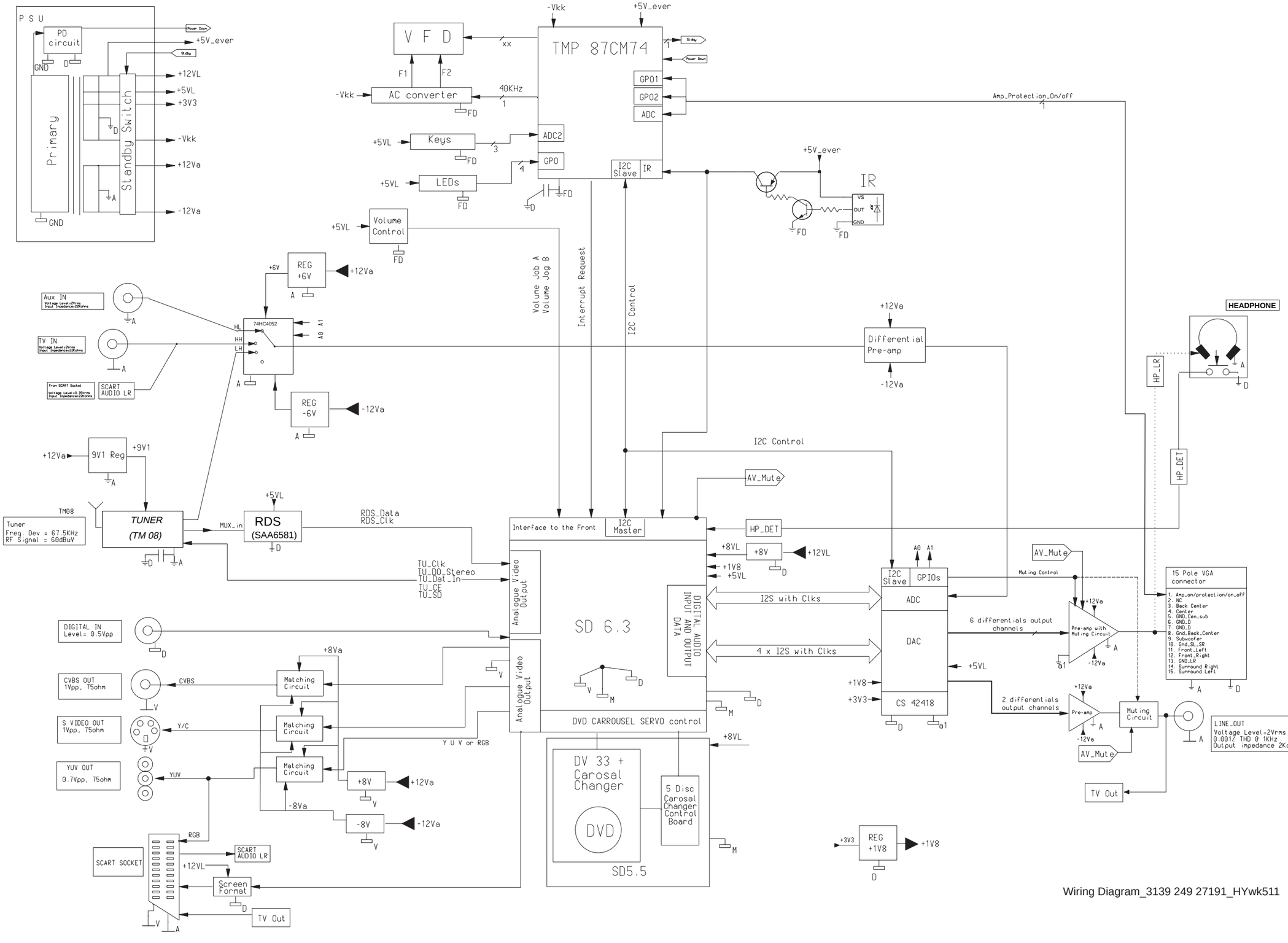
Notes:

4. Set Block diagram



Block Diagram_HTS5500C_HYwk512

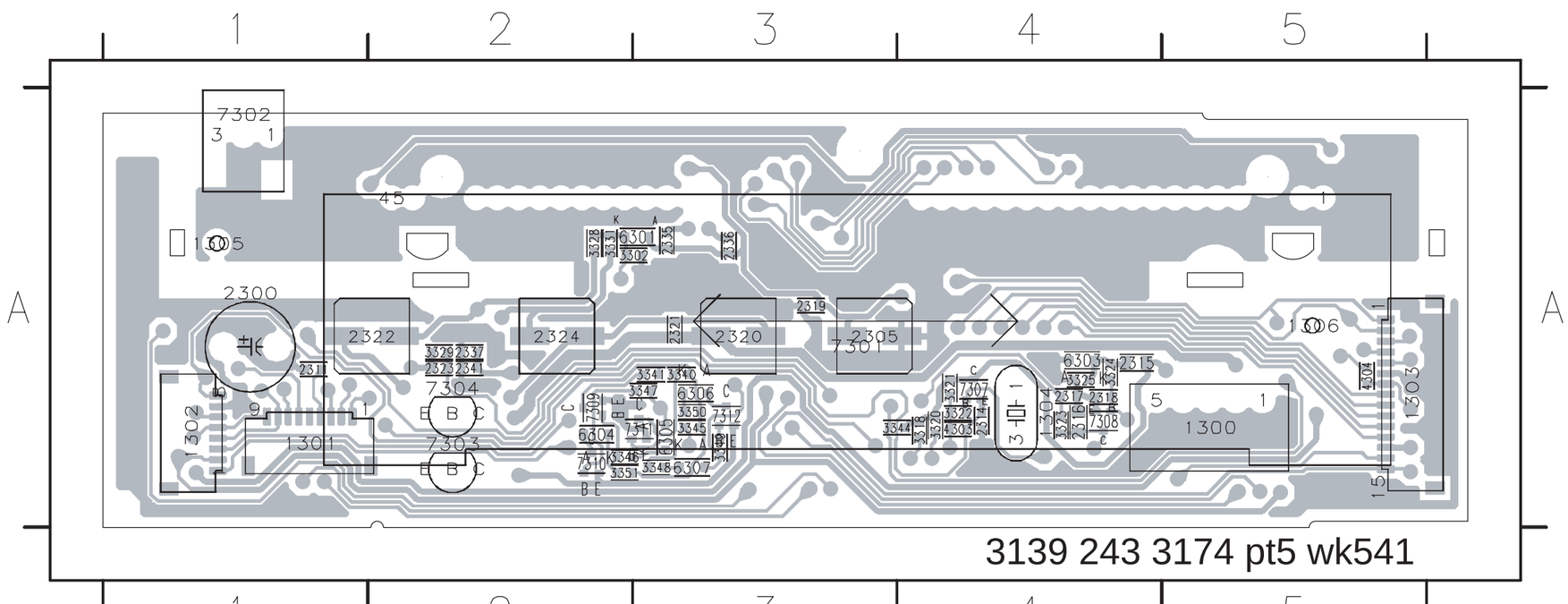
5. Set wiring diagram



Wiring Diagram_3139 249 27191_HYwk511

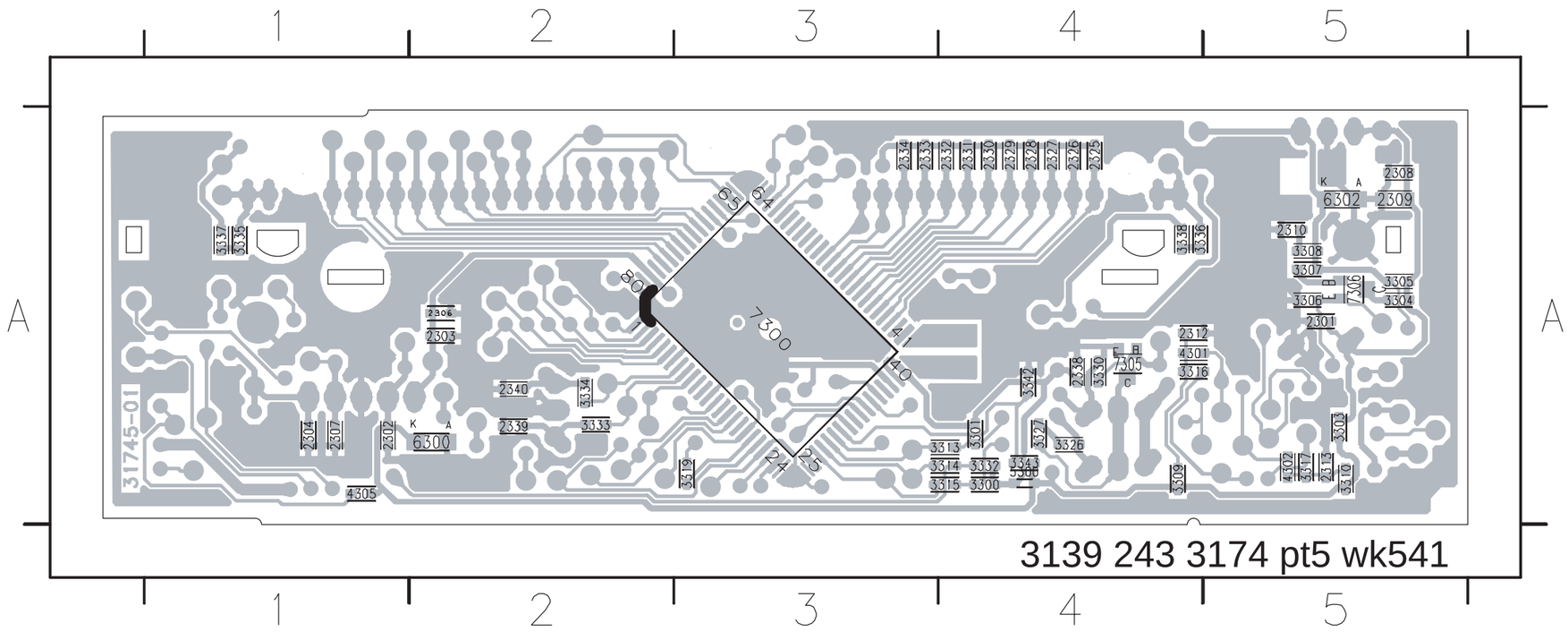
6. Panel Front Boards

Front Display - Component Layout



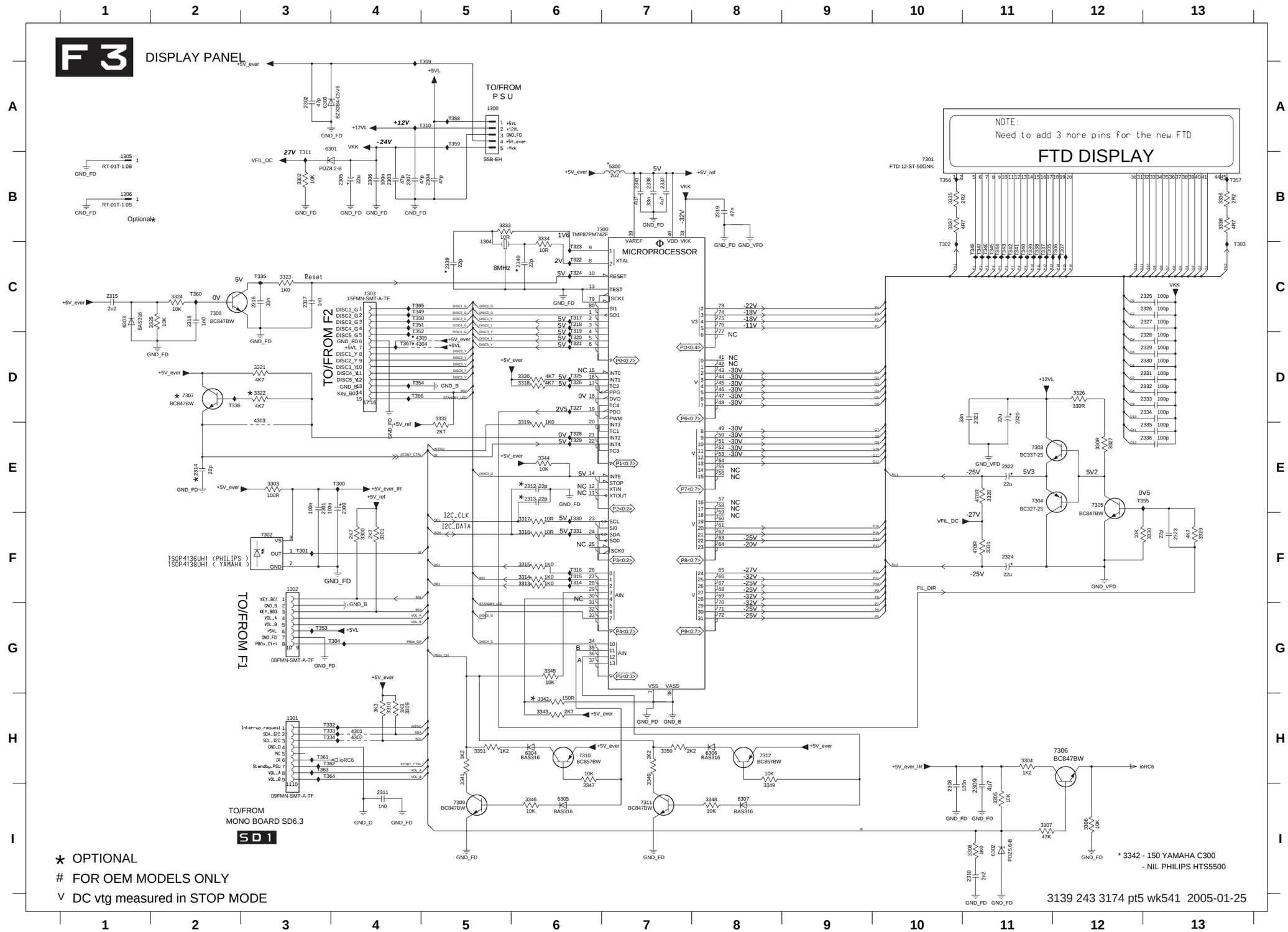
1300	A5	2341	A2	6301	A3
1301	A1	3302	A3	6303	A4
1302	A1	3318	A4	6304	A2
1303	A5	3320	A4	6305	A3
1304	A4	3321	A4	6306	A3
1305	A1	3322	A4	6307	A3
1306	A5	3323	A4	7301	A3
2300	A1	3324	A4	7302	A1
2305	A3	3325	A4	7303	A2
2311	A1	3328	A2	7304	A2
2314	A4	3329	A2	7307	A4
2315	A4	3331	A2	7308	A4
2316	A4	3340	A3	7309	A2
2317	A4	3341	A3	7310	A2
2318	A4	3344	A3	7311	A3
2319	A3	3345	A3	7312	A3
2320	A3	3346	A2		
2321	A3	3347	A3		
2322	A2	3348	A3		
2323	A2	3349	A3		
2324	A2	3350	A3		
2335	A3	3351	A2		
2336	A3	4303	A4		
2337	A2	4304	A5		

Front Display - Chip Layout



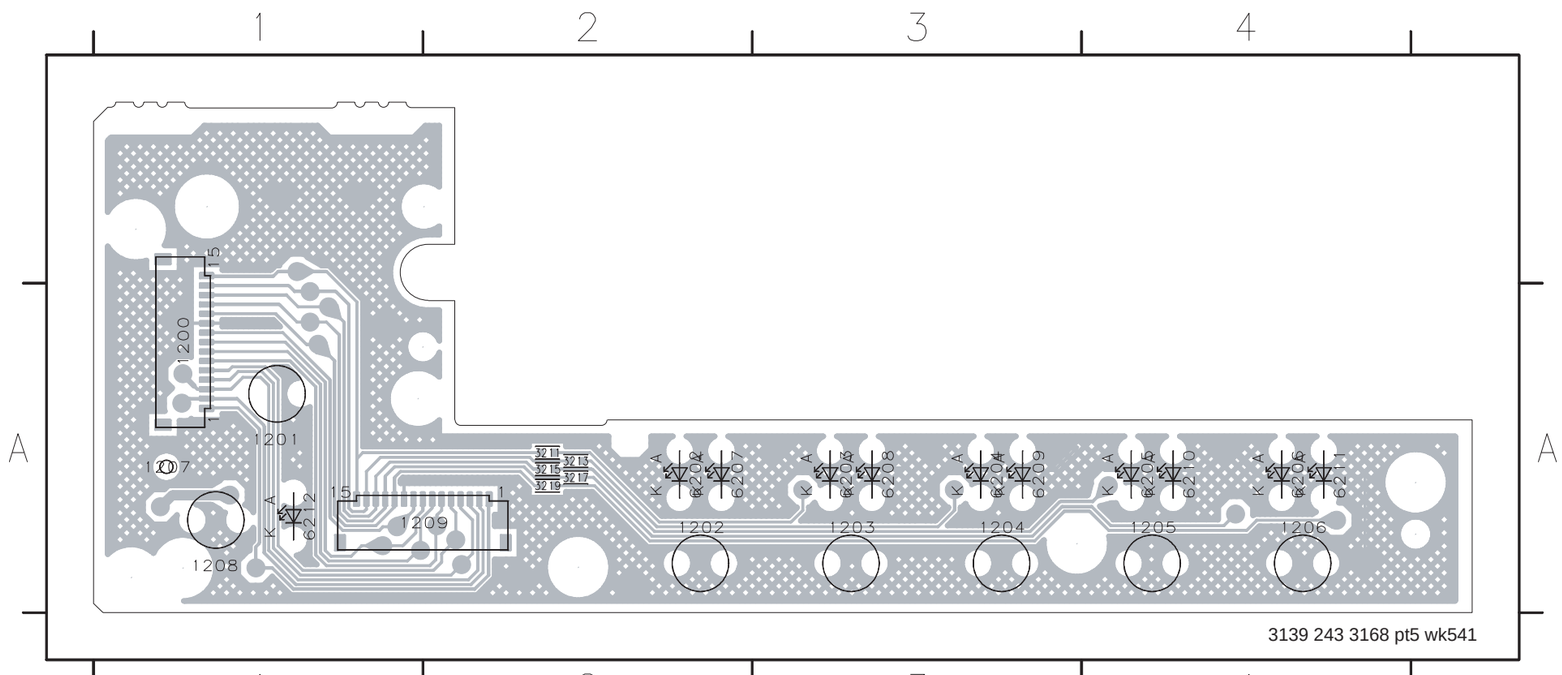
2301	A5	3300	A4	3337	A1
2302	A1	3301	A4	3338	A4
2303	A2	3303	A5	3342	A4
2304	A1	3304	A5	3343	A4
2306	A2	3305	A5	4301	A4
2307	A1	3306	A5	4302	A5
2308	A5	3307	A5	4305	A1
2309	A5	3308	A5	5300	A4
2310	A5	3309	A4	6300	A2
2312	A4	3310	A5	6302	A5
2313	A5	3313	A4	7300	A3
2325	A4	3314	A4	7305	A4
2326	A4	3315	A4	7306	A5
2327	A4	3316	A4		
2328	A4	3317	A5		
2329	A4	3319	A3		
2330	A4	3326	A4		
2331	A4	3327	A4		
2332	A4	3330	A4		
2333	A3	3332	A4		
2334	A3	3333	A2		
2338	A4	3334	A2		
2339	A2	3335	A1		
2340	A2	3336	A4		

Front Display - Circuit Diagram



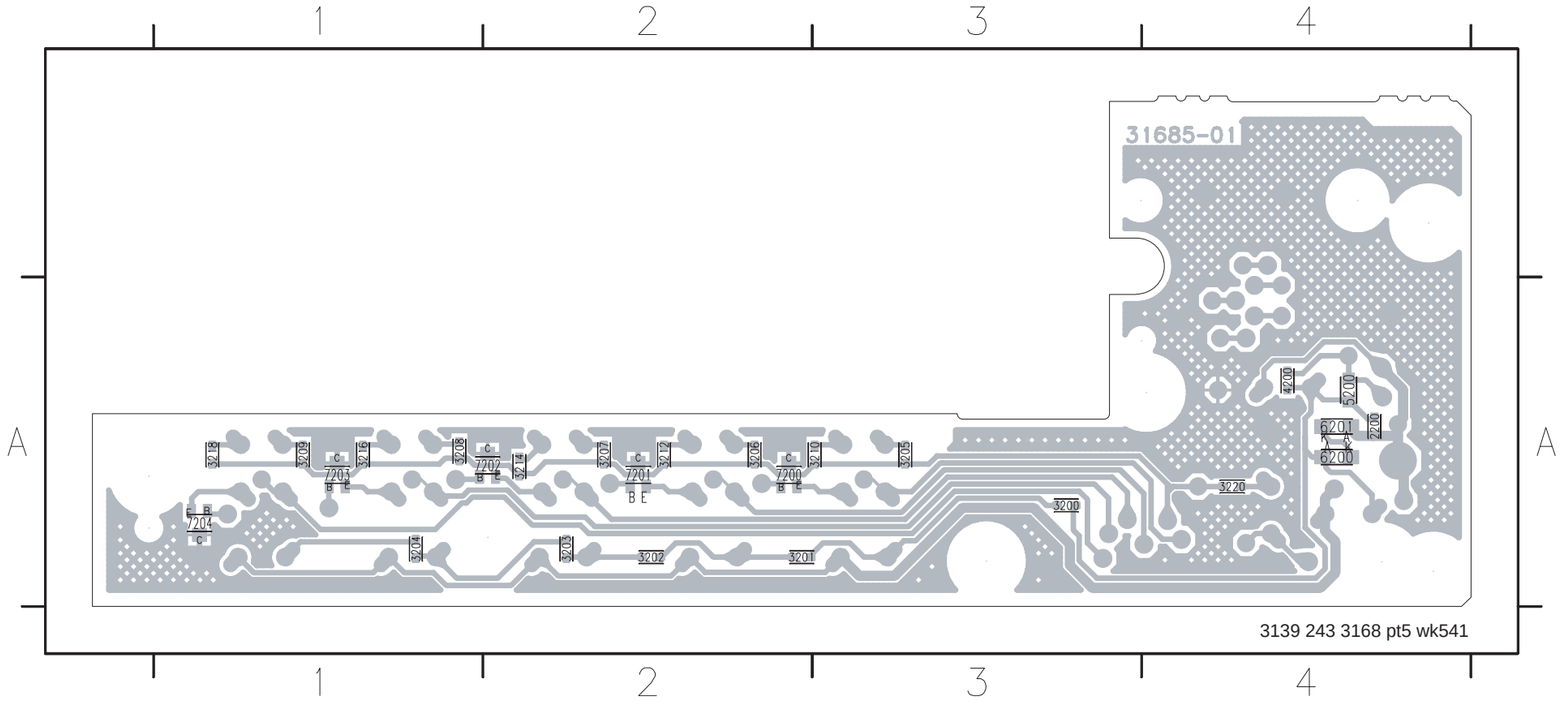
1300 A5	7305 E12
1301 H3	7306 H12
1302 F3	7307 D2
1303 C4	7308 C2
1304 C5	7309 I5
1305 B1	7310 H6
1306 B1	7311 I7
2300 E4	7312 H8
2301 E3	T300 E4
2302 A3	T301 F3
2303 B4	T302 C10
2304 B5	T303 C13
2305 B4	T304 G4
2306 B4	T305 C11
2307 B4	T306 C12
2308 I10	T307 C12
2309 I11	T309 A5
2310 I11	T310 A5
2311 I4	T311 B3
2312 E6	T314 F6
2313 E6	T315 F6
2314 E2	T316 F6
2315 C1	T317 C6
2316 C3	T318 C6
2317 C3	T319 C6
2318 C2	T320 D6
2319 B8	T321 D6
2320 D11	T322 C6
2321 D11	T323 C6
2322 E11	T324 C6
2323 F13	T325 D6
2324 F11	T326 D6
2325 C13	T327 D6
2326 C13	T328 E6
2327 C13	T329 E6
2328 D13	T330 F6
2329 D13	T331 F6
2330 D13	T332 H3
2331 D13	T333 H3
2332 D13	T334 H3
2333 D13	T335 C3
2334 D13	T336 D2
2335 E13	T337 C11
2336 E13	T338 C11
2337 B7	T339 C11
2338 B7	T340 C11
2339 C5	T341 C11
2340 C6	T342 C11
2341 B7	T343 C11
3300 F4	T344 C11
3301 F4	T345 C11
3302 B3	T346 C11
3303 E3	T347 C11
3304 H11	T348 C11
3305 I11	T349 C4
3306 I12	T350 C4
3307 I11	T351 C4
3308 I11	T352 C4
3309 H4	T353 G3
3310 H4	T354 D4
3313 F6	T355 E13
3314 F6	T356 B10
3315 F6	T357 B13
3316 F6	T358 A5
3317 F6	T359 A5
3318 D6	T360 C2
3319 E6	T361 H3
3320 D6	T362 H3
3321 D3	T363 H3
3322 D3	T364 H3
3323 C3	T365 C4
3324 C2	T366 D4
3325 C2	T367 D4
3326 D12	
3327 E12	
3328 E11	
3329 F13	
3330 F13	
3331 F11	
3332 D5	
3333 B5	
3334 B6	
3335 B10	
3336 B13	
3337 B10	
3338 B13	
3340 H7	
3341 H5	
3342 H6	
3343 H6	
3344 E6	
3345 G6	
3346 I6	
3347 H6	
3348 I8	
3349 H8	
3350 H7	
3351 H5	
4301 H4	
4302 H4	
4303 E3	
4304 D5	
4305 D5	
5300 B7	
6300 A3	
6301 A4	
6302 I11	
6303 C1	
6304 H6	
6305 I6	
6306 H8	
6307 I8	
7300 B7	
7301 B10	
7302 F3	
7303 E11	
7304 E11	

Key & Open/Close Board - Component Layout



1200 A1
1201 A1
1202 A2
1203 A3
1204 A3
1205 A4
1206 A4
1207 A1
1208 A1
1209 A1
3211 A2
3213 A2
3215 A2
3217 A2
3219 A2
6202 A2
6203 A3
6204 A3
6205 A4
6206 A4
6207 A2
6208 A3
6209 A3
6210 A4
6211 A4
6212 A1

Key & Open/Close Board - Chip Layout



2200 A4
3200 A3
3201 A2
3202 A2
3203 A2
3204 A1
3205 A3
3206 A2
3207 A2
3208 A1
3209 A1
3210 A3
3212 A2
3214 A2
3216 A1
3218 A1
3220 A4
4200 A4
5200 A4
6200 A4
6201 A4
7200 A2
7201 A2
7202 A2
7203 A1
7204 A1

Key & Open/Close Board - Circuit Diagram

F2 KEYS AND LEDs

TO/FROM F3

1209 15FMN-SMT-A-TF
1200 15FMN-SMT-A-TF

4200 * 5200 15u
100p 2200
BZX384-C6V8 6200
*6201 BZX384-C6V8
1201 STANDBY
1208
1202 DISC1
1203 DISC2
1204 DISC3
1205 DISC4
1206 DISC5
3200 150R
3201 220R
3202 270R
3203 390R
3204 560R
1207 RT-01T-1.0B
BO2
GND_B
+5VL

I200 DISC1_G
I201 DISC2_G
I202 DISC3_G
I203 DISC4_G
I204 DISC5_G
I205 GND
I206 +5VL
I207 DISC1_Y
I208 DISC2_Y
I209 DISC3_Y
I210 DISC4_Y
I211 DISC5_Y
I212 GND_B
I213 BO2
I214 STANDBY_LED

STANDBY_LED → 6212 LTL-816GE → 3220 330R
DISC1_Y → 6202 LTL-816YE → 3205 330R
DISC2_Y → 6203 LTL-816YE → 3206 330R
DISC3_Y → 6204 LTL-816YE → 3207 330R
DISC4_Y → 6205 LTL-816YE → 3208 330R
DISC5_Y → 6206 LTL-816YE → 3209 330R

DISC1_PLAY: DISC1_G → 3211 10K → 7200 BC857BW (3V8, 5V) → 6207 LTL-816GE → 3210 330R
DISC2_PLAY: DISC2_G → 3213 10K → 7201 BC857BW (3V8, 5V) → 6208 LTL-816GE → 3212 330R
DISC3_PLAY: DISC3_G → 3215 10K → 7202 BC857BW (3V8, 5V) → 6209 LTL-816GE → 3214 330R
DISC4_PLAY: DISC4_G → 3217 10K → 7203 BC857BW (3V8, 5V) → 6210 LTL-816GE → 3216 330R
DISC5_PLAY: DISC5_G → 3219 10K → 7204 BC857BW (3V8, 5V) → 6211 LTL-816GE → 3218 330R

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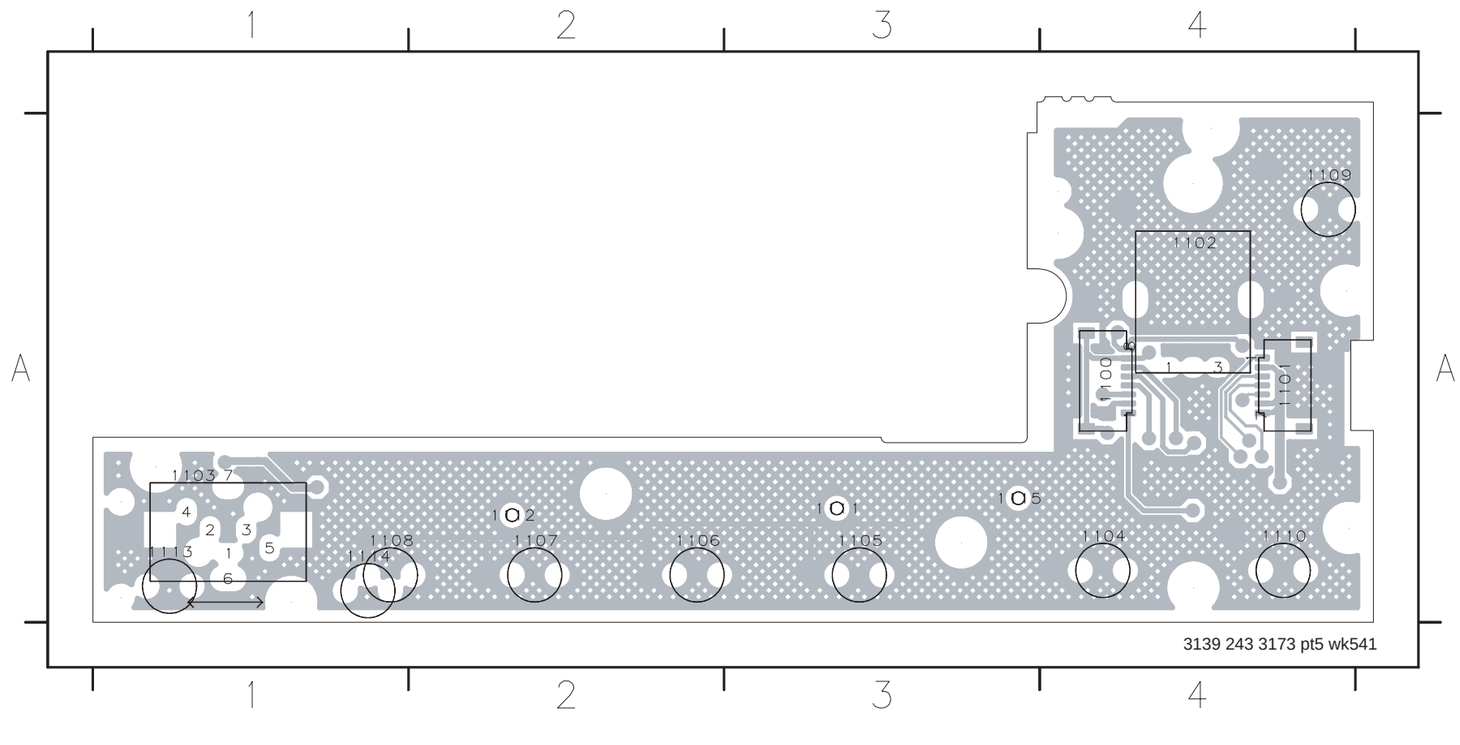
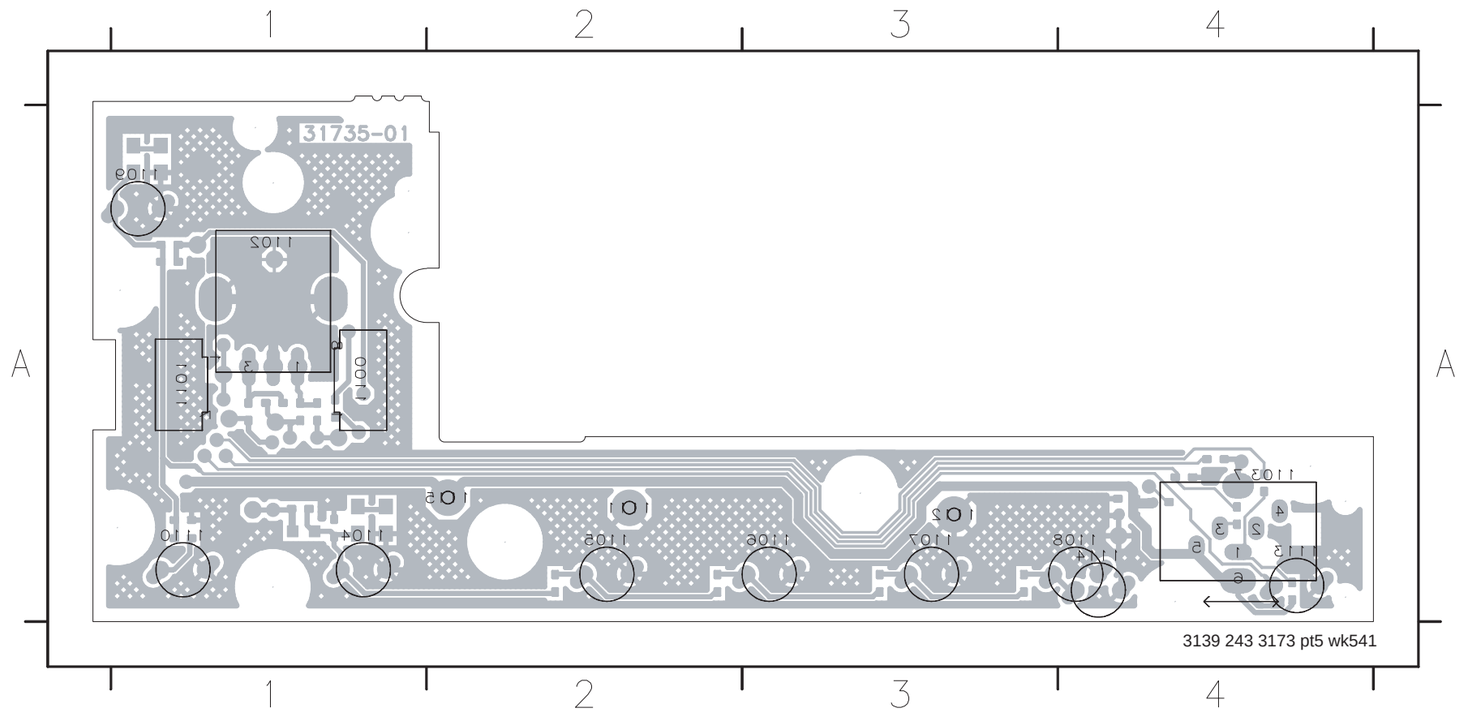
1200 B1
1201 A4
1202 A5
1203 A5
1204 A6
1205 A6
1206 A7
1207 B8
1208 A4
1209 B1
2200 A3
3200 A4
3201 A5
3202 A6
3203 A6
3204 A7
3205 B8
3206 C8
3207 C8
3208 C8
3209 D8
3210 D8
3211 D6
3212 D8
3213 E6
3214 E8
3215 E6
3216 F8
3217 F6
3218 F8
3219 F6
3220 B8
4200 A3
5200 A3
6200 A3
6201 B3
6202 B7
6203 C7
6204 C7
6205 C7
6206 D7
6207 D7
6208 D7
6209 E7
6210 F7
6211 F7
6212 B7
7200 D7
7201 E7
7202 E7
7203 F7
7204 F7
I200 B2
I201 B2
I202 B2
I203 B2
I204 B2
I205 B2
I206 C2
I207 C2
I208 C2
I209 C2
I210 C2
I211 C2
I212 C2
I213 C2
I214 C2

Front key board - Component Layout



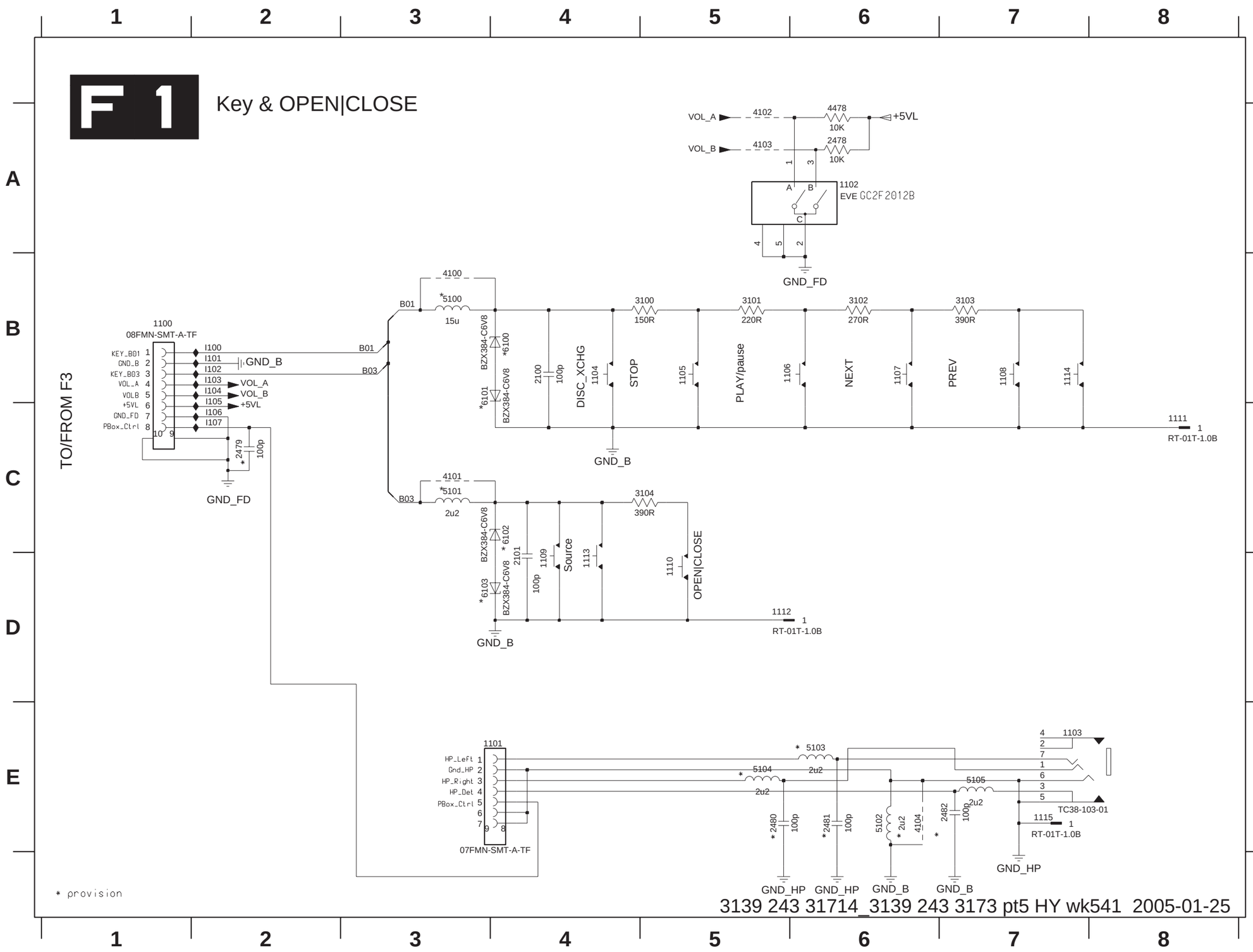
1100 A4
1101 A4
1102 A4
1103 A1
1104 A4
1105 A3
1106 A2
1107 A2
1108 A1
1109 A4
1110 A4
1111 A3
1112 A2
1113 A1
1114 A1
1115 A3

Front key board - Chip Layout



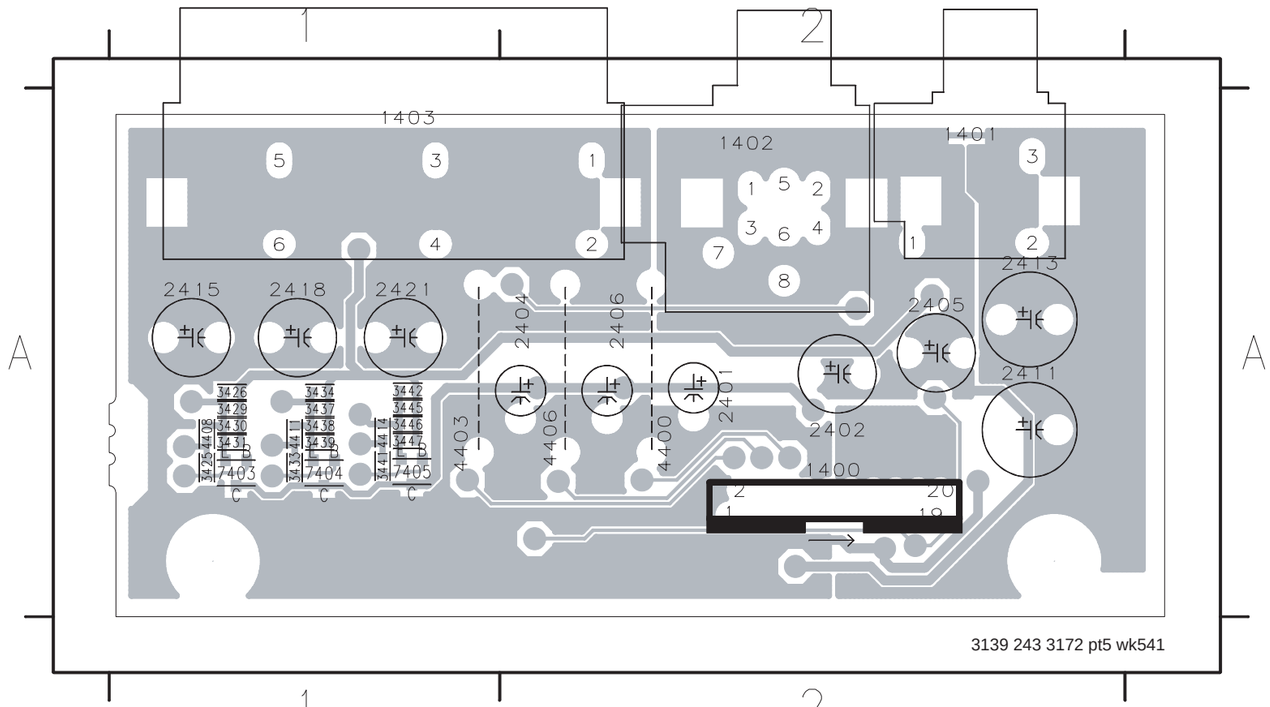
2100 A1
2101 A1
2478 A1
2479 A1
2480 A4
2481 A4
2482 A4
3100 A2
3101 A2
3102 A3
3103 A3
3104 A1
4100 A1
4101 A1
4102 A1
4103 A1
4104 A4
4478 A1
5100 A1
5101 A1
5102 A4
5103 A4
5104 A4
5105 A4
6100 A1
6101 A1
6102 A1
6103 A1

Front key board - Circuit Diagram



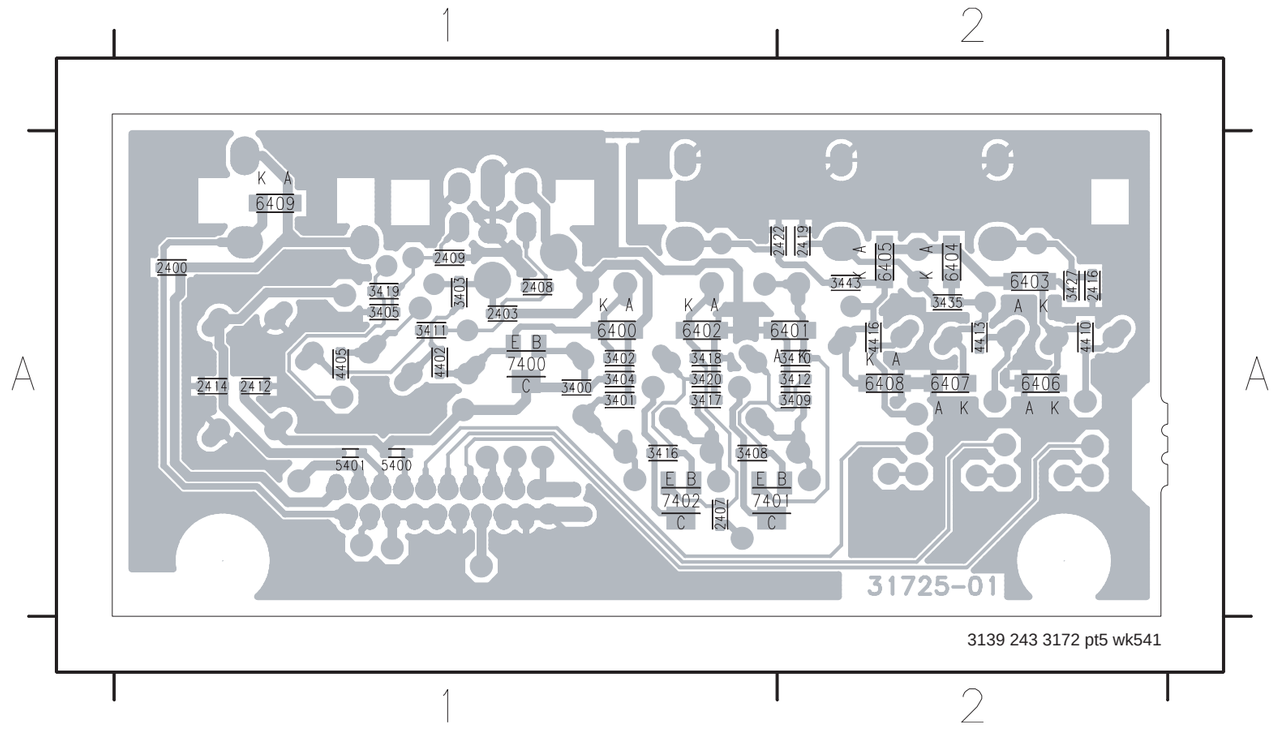
1100 B1
1101 E4
1102 A6
1103 E7
1104 B4
1105 B5
1106 B6
1107 B6
1108 B7
1109 D4
1110 D5
1111 C8
1112 D5
1113 D4
1114 B7
1115 E7
2100 B4
2101 D4
2478 A6
2479 C2
2480 E5
2481 E6
2482 E7
3100 B5
3101 B5
3102 B6
3103 B7
3104 C5
4100 B3
4101 C3
4102 A5
4103 A5
4104 E6
4478 A6
5100 B3
5101 C3
5102 E6
5103 E6
5104 E5
5105 E7
6100 B4
6101 B3
6102 C4
6103 D3
I100 B2
I101 B2
I102 B2
I103 B2
I104 B2
I105 B2
I106 C2
I107 C2

Video Connector Board - Component Layout



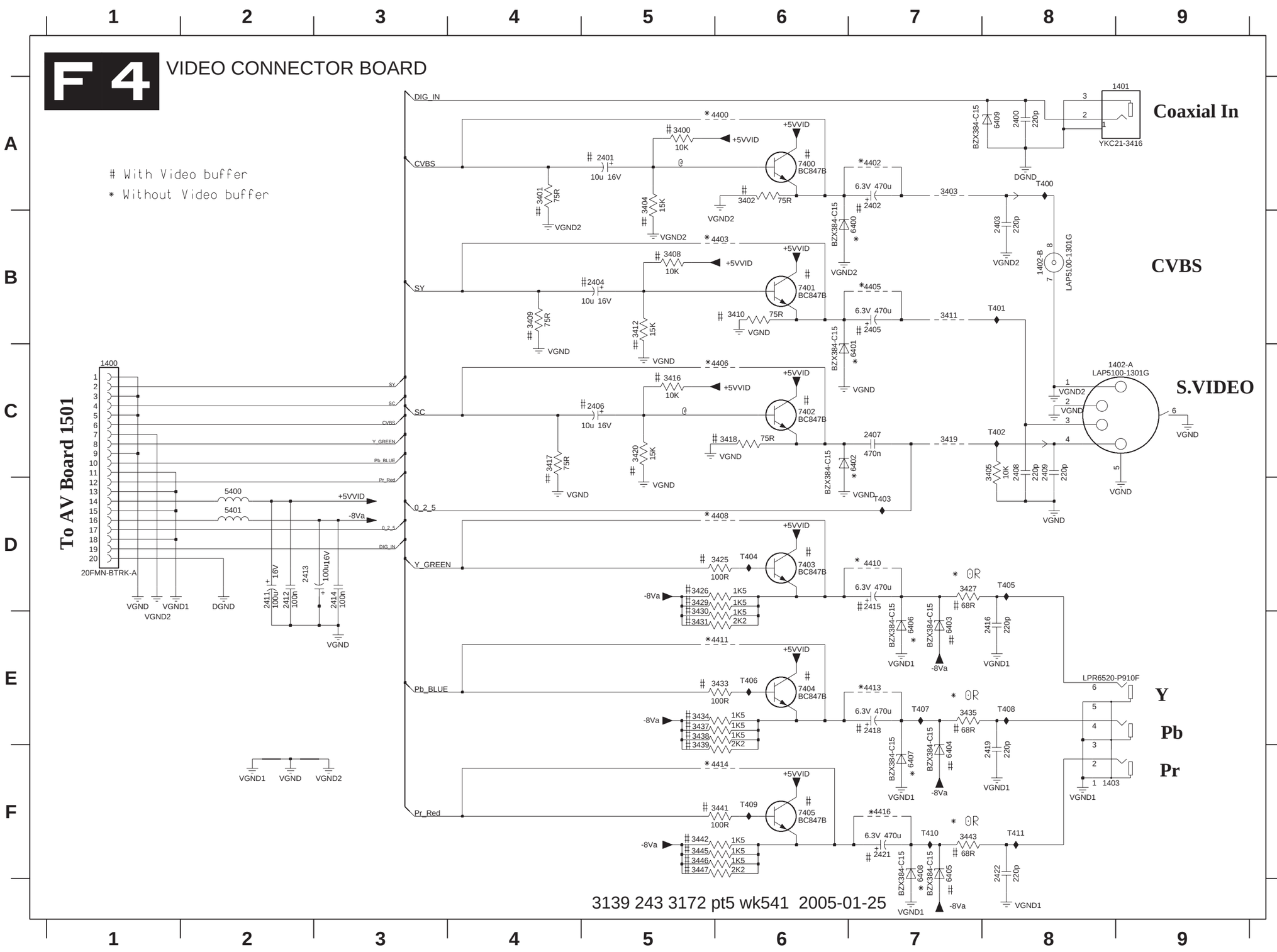
1400 A2
1401 A2
1402 A2
1403 A1
2401 A2
2402 A2
2404 A2
2405 A2
2406 A2
2411 A2
2413 A2
2415 A1
2418 A1
2421 A1
3425 A1
3426 A1
3429 A1
3430 A1
3431 A1
3433 A1
3434 A1
3437 A1
3438 A1
3439 A1
3441 A1
3442 A1
3445 A1
3446 A1
3447 A1
4400 A2
4403 A1
4406 A2
4408 A1
4411 A1
4414 A1
7403 A1
7404 A1
7405 A1

Video Connector Board - Chip Layout



2400 A1
2403 A1
2407 A1
2408 A1
2409 A1
2412 A1
2414 A1
2416 A2
2419 A2
2422 A2
3400 A1
3401 A1
3402 A1
3403 A1
3404 A1
3405 A1
3408 A1
3409 A2
3410 A2
3411 A1
3412 A2
3416 A1
3417 A1
3418 A1
3419 A1
3420 A1
3427 A2
3435 A2
3443 A2
4402 A1
4405 A1
4410 A2
4413 A2
4416 A2
5400 A1
5401 A1
6400 A1
6401 A2
6402 A1
6403 A2
6404 A2
6405 A2
6406 A2
6407 A2
6408 A2
6409 A1
7400 A1
7401 A1
7402 A1

Video Connector Board - Circuit Diagram



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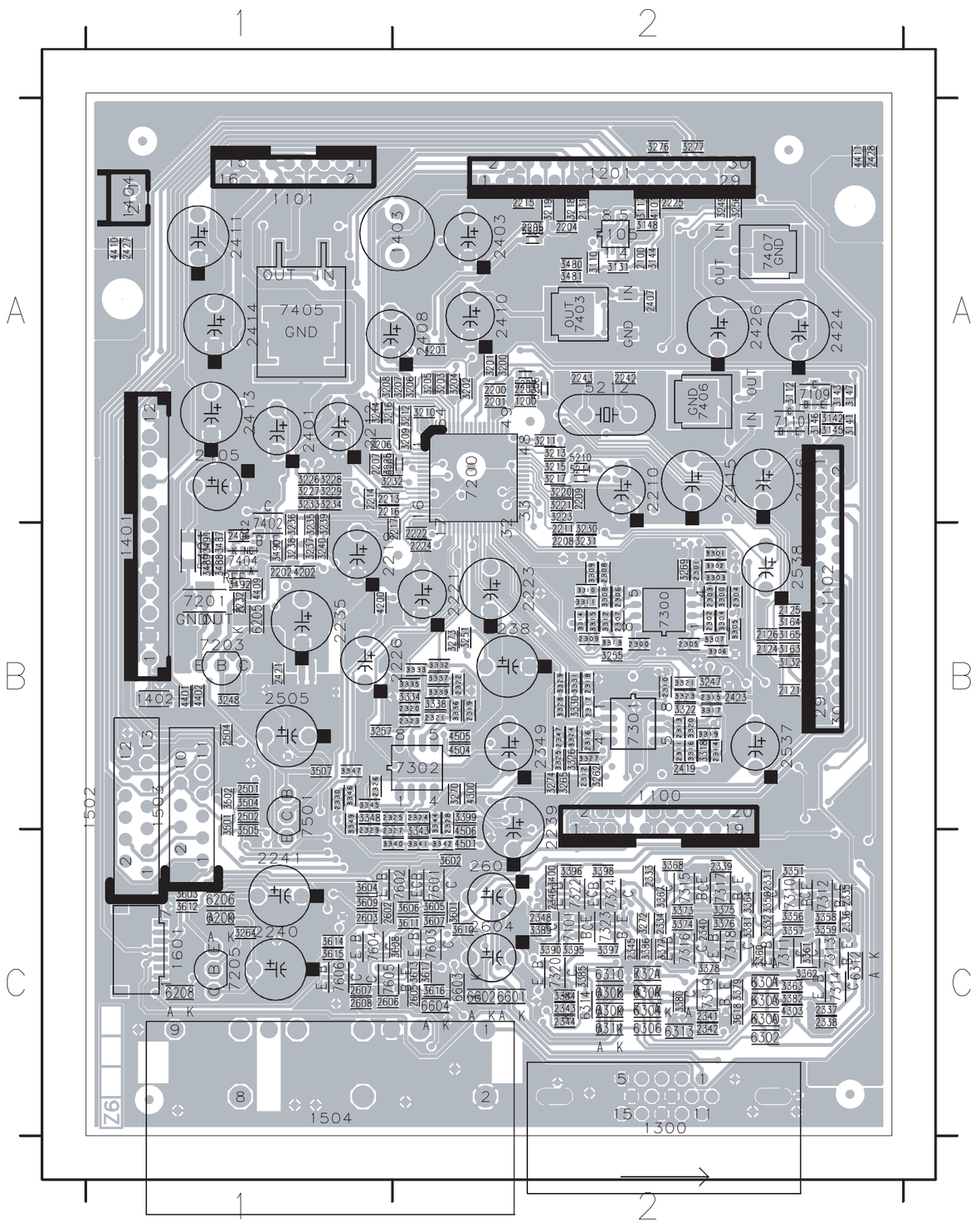
1400 C1
1401 A9
1402-A C9
1402-B B8
1403 F8
2400 A8
2401 A5
2402 A7
2403 B8
2404 B5
2405 B7
2406 C5
2407 C7
2408 C8
2409 C8
2411 D2
2412 D2
2413 D2
2414 D3
2415 D7
2416 E8
2418 E7
2419 F8
2421 F7
2422 F8
3400 A5
3401 A4
3402 A6
3403 A7
3404 A5
3405 C8
3408 B5
3409 B4
3410 B6
3411 B7
3412 B5
3416 C5
3417 C4
3418 C6
3419 C7
3420 C5
3425 D6
3426 D5
3427 D7
3429 D5
3430 E5
3431 E5
3433 E6
3434 E5
3435 E7
3437 E5
3438 E5
3439 F5
3441 F6
3442 F5
3443 F7
3445 F5
3446 F5
3447 F5
4400 A6
4402 A7
4403 B6
4405 B7
4406 C6
4408 D6
4410 D7
4411 E6
4413 E7
4414 F6
4416 F7
5400 D2
5401 D2
6400 B7
6401 C7
6402 C7
6403 E7
6404 F7
6405 F7
6406 E7
6407 F7
6408 F7
6409 A8
7400 A6
7401 B6
7402 C6
7403 D6
7404 E6
7405 F6
T400 A8
T401 B8
T402 C8
T403 D7
T404 D6
T405 D8
T406 E6
T407 E7
T408 E8
T409 F6
T410 F7
T411 F8

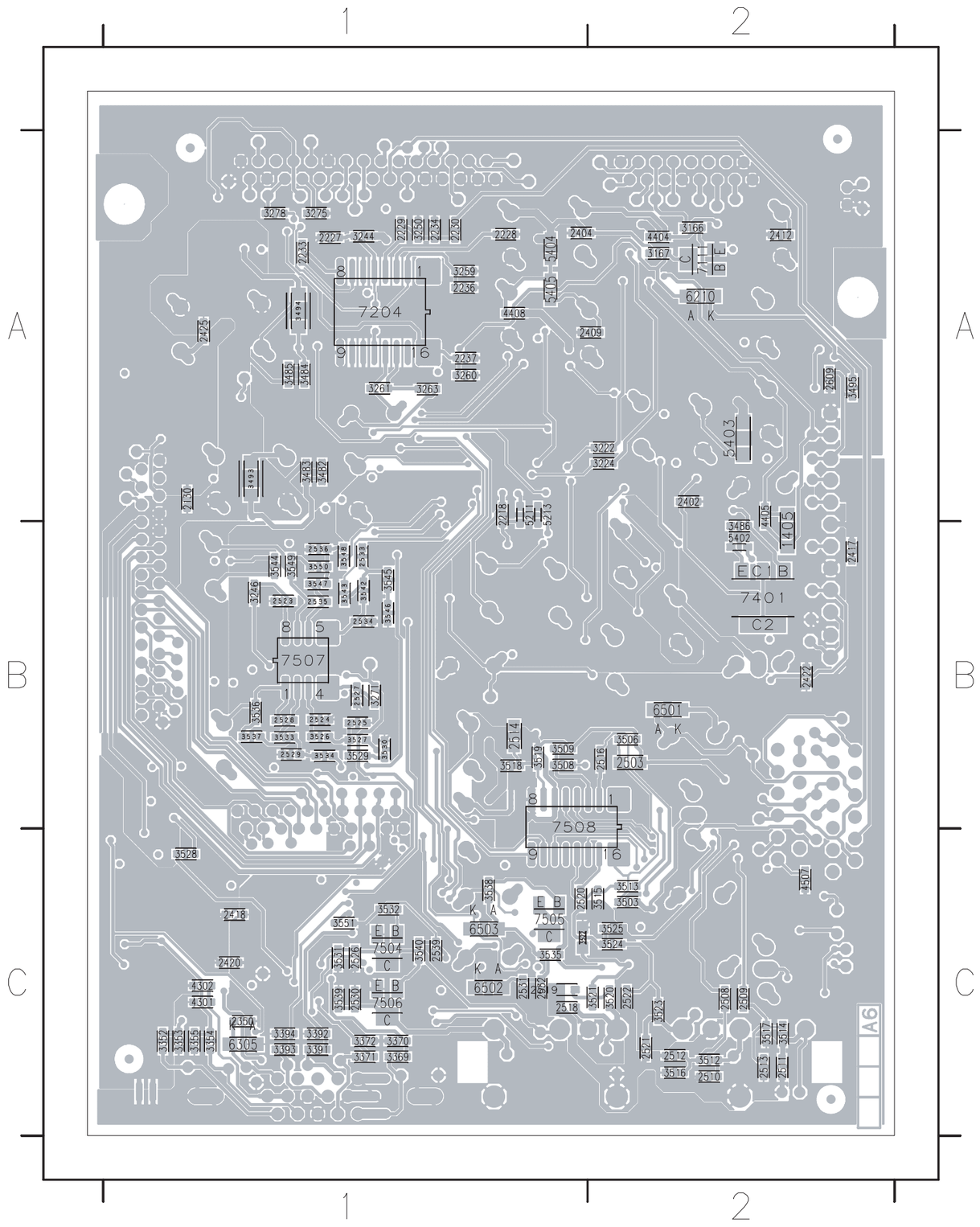
7. AV Board

AV Board - Top view layout



1100 B2	2308 B2	2501 B1	3233 A1	3336 B2	3601 C2	6603 C2
1101 A1	2309 B2	2502 B1	3234 A1	3337 B2	3602 C2	6604 C2
1102 B2	2310 B2	2504 B1	3235 B1	3338 B2	3603 C1	7101 C2
1200 A2	2311 B2	2505 B1	3236 B1	3339 B2	3604 C1	7105 A2
1201 A2	2312 B2	2537 B2	3237 B1	3340 C2	3605 C2	7109 A2
1300 C2	2313 B2	2538 B2	3238 B1	3341 C2	3606 C2	7110 A2
1401 B1	2314 B2	2601 C2	3239 B1	3342 C2	3607 C2	7200 A2
1402 B1	2315 B2	2602 C1	3240 B1	3343 C2	3608 C2	7201 B1
1403 A2	2316 B2	2603 C1	3247 B2	3344 B2	3609 C1	7203 B1
1404 A1	2317 B2	2604 C2	3248 B1	3345 B1	3610 C2	7205 C1
1502 B1	2318 B2	2605 C2	3249 A2	3346 B1	3611 C2	7300 B2
1503 B1	2319 B2	2606 C1	3251 B2	3347 B1	3612 C1	7301 B2
1504 C1	2320 B2	2607 C1	3255 B2	3348 B1	3613 C2	7302 B2
1601 C1	2321 B2	2608 C1	3256 A2	3349 B1	3614 C1	7310 C2
2100 A2	2322 B2	3110 A2	3257 B1	3350 C2	3615 C1	7311 C2
2121 B2	2323 B2	3112 A2	3262 B2	3351 C2	3616 C2	7312 C2
2124 B2	2324 B2	3117 A2	3264 C1	3356 C2	3617 C2	7313 C2
2125 B2	2325 B2	3131 A2	3265 B2	3357 C2	3618 C2	7314 C2
2126 B2	2326 B1	3132 B2	3269 B2	3358 C2	4101 A2	7315 C2
2131 A2	2327 C2	3141 A2	3270 B2	3359 C2	4200 B1	7316 C2
2200 A2	2328 B2	3142 A2	3272 C2	3360 C2	4201 A2	7317 C2
2201 A2	2329 C1	3143 A2	3273 B2	3361 C2	4202 B1	7318 C2
2202 B1	2330 B1	3144 A2	3274 B2	3362 C2	4300 B2	7319 C2
2203 A2	2331 C2	3145 A2	3276 A2	3363 C2	4303 C2	7320 C2
2204 A2	2332 C2	3146 A2	3277 A2	3364 C2	4401 B1	7321 C2
2205 A2	2333 C2	3147 A2	3300 B2	3367 C2	4402 B1	7322 C2
2206 A1	2334 C2	3148 A2	3301 B2	3368 C2	4409 B1	7323 C2
2207 A1	2335 C2	3163 B2	3302 B2	3373 C2	4410 A1	7324 C2
2208 B2	2336 C2	3164 B2	3303 B2	3374 C2	4411 A2	7402 B1
2209 A2	2337 C2	3165 B2	3304 B2	3375 C2	4501 C2	7403 A2
2210 A2	2338 C2	3200 A2	3305 B2	3376 C2	4504 B2	7404 B1
2211 B2	2339 C2	3201 A2	3306 B2	3377 C2	4505 B2	7405 A1
2212 A1	2340 C2	3202 A2	3307 B2	3378 C2	4506 C2	7406 A2
2213 A1	2341 C2	3203 A2	3308 B2	3379 C2	5206 A2	7407 A2
2214 A1	2342 C2	3204 A2	3309 B2	3380 C2	5207 A2	7501 B1
2215 A2	2343 C2	3205 A2	3310 B2	3381 C2	5208 A2	7601 C2
2216 A1	2344 C2	3206 A2	3311 B2	3382 C2	5209 A1	7602 C2
2217 B2	2345 C2	3207 A2	3312 B2	3384 C2	5210 A2	7603 C2
2219 B1	2346 C2	3208 A1	3313 B2	3385 C2	5212 A2	7604 C1
2221 B2	2347 B2	3209 A2	3314 B2	3386 C2	5214 A2	7605 C1
2222 B2	2348 C2	3210 A2	3315 B2	3389 C2	5401 B1	7606 C1
2223 B2	2349 B2	3211 A2	3316 B2	3390 C2	6205 B1	
2224 B2	2401 A1	3212 A2	3317 B2	3395 C2	6206 C1	
2225 A2	2403 A2	3213 A2	3318 B2	3396 C2	6208 C1	
2226 B2	2405 A1	3214 A1	3319 B2	3397 C2	6209 C1	
2232 B1	2406 B1	3215 A2	3320 B2	3398 C2	6300 C2	
2235 B1	2407 A2	3216 A1	3321 B2	3399 B2	6301 C2	
2238 B2	2408 A2	3217 A2	3322 B2	3400 C2	6302 C2	
2239 B2	2410 A2	3218 A2	3323 B2	3480 A2	6303 C2	
2240 C1	2411 A1	3219 A2	3324 B2	3481 A2	6304 C2	
2241 C1	2413 A1	3220 A2	3325 B2	3487 B1	6306 C2	
2242 A2	2414 A1	3221 A2	3326 B2	3488 B1	6307 C2	
2243 A2	2415 A2	3223 A2	3327 B2	3489 B1	6308 C2	
2300 B2	2416 A2	3225 A1	3328 B2	3490 B1	6309 C2	
2301 B2	2419 B2	3226 A1	3329 B2	3491 B1	6310 C2	
2302 B2	2421 B1	3227 A1	3330 B2	3492 B1	6311 C2	
2303 B2	2423 B2	3228 A1	3331 B2	3501 B1	6312 C2	
2304 B2	2424 A2	3229 A1	3332 B2	3502 B1	6313 C2	
2305 B2	2426 A2	3230 B2	3333 B2	3504 B1	6314 C2	
2306 B2	2427 A1	3231 B2	3334 B2	3505 C1	6601 C2	
2307 B2	2428 A2	3232 A1	3335 B2	3507 B1	6602 C2	

AV Board - Bottom view layout



1405	B2	3263	A1	3546	B1
2130	A1	3271	B1	3547	B1
2218	A1	3275	A1	3548	B1
2227	A1	3278	A1	3549	B1
2228	A1	3352	C1	3550	B1
2229	A1	3353	C1	3551	C1
2230	A1	3354	C1	4301	C1
2233	A1	3355	C1	4302	C1
2234	A1	3369	C1	4404	A2
2236	A1	3370	C1	4405	A2
2237	A1	3371	C1	4408	A1
2350	C1	3372	C1	4507	C2
2402	A2	3391	C1	5211	A1
2404	A1	3392	C1	5213	A1
2409	A2	3393	C1	5402	B2
2412	A2	3394	C1	5403	A2
2417	B2	3482	A1	5404	A1
2418	C1	3483	A1	5405	A1
2420	C1	3484	A1	6210	A2
2422	B2	3485	A1	6305	C1
2425	A1	3486	B2	6501	B2
2503	B2	3493	A1	6502	C1
2508	C2	3494	A1	6503	C1
2509	C2	3495	A2	7111	A2
2510	C2	3503	C2	7204	A1
2511	C2	3506	B2	7401	B2
2512	C2	3508	B1	7504	C1
2513	C2	3509	B1	7505	C1
2514	B1	3512	C2	7506	C1
2516	B2	3513	C2	7507	B1
2518	C1	3514	C2	7508	B1
2519	C1	3515	C2		
2520	C1	3516	C2		
2521	C2	3517	C2		
2522	C2	3518	B1		
2523	B1	3519	B1		
2524	B1	3520	C2		
2525	B1	3521	C2		
2526	C1	3522	C1		
2527	B1	3523	C2		
2528	B1	3524	C2		
2529	B1	3525	C2		
2530	C1	3526	B1		
2531	C1	3527	B1		
2532	C1	3528	C1		
2533	B1	3529	B1		
2534	B1	3530	B1		
2535	B1	3531	C1		
2536	B1	3532	C1		
2539	C1	3533	B1		
2609	A2	3534	B1		
3166	A2	3535	C1		
3167	A2	3536	B1		
3222	A2	3537	B1		
3224	A2	3538	C1		
3244	A1	3539	C1		
3246	B1	3540	C1		
3250	A1	3542	B1		
3259	A1	3543	B1		
3260	A1	3544	B1		
3261	A1	3545	B1		

AV Board - Circuit Diagram (Part 1)

AV 1

AV_VIDEO

MONO BOARD SD6.3

1101 16FMN-BTRK-A: GND 1, VSDA_DAC 2, VSCL_DAC 3, DAC_STB 4, STDBY_CNTRL 5, GND 6, +8V 7, GND 8, +5VL 9, +5VL 10, +5VL 11, +1V8 12, +1V8 13, +1V8_Sense 14, GND 15, GND 16

T101, T103, T104, T105, T106 +8VL, T107 +5VL, T108 +1V8, T109

Standby_PSU, +1V8_Sense, DIG_IN_A

+3V3, 3162 10K, AV_MUTE, 7111 BC847B, 3166 4K7, DGND

4101: 2131 100n, 3117 330R, 3110 1M0, 3131, 2100 100n, 3144 75R, 3148 *18K; 7105-1 TC7WHU04FU, 7105-2 TC7WHU04FU, 7105-3 TC7WHU04FU

1102 30FMN-BTRK-A: Mic_det 30, GND 29, SPDIF_PCM_DATA_MIC_IN 28, GND 27, SPDIF_OUT 26, GND 25, PCMSCLK 24, PCMCLK 23, GND 22, PCMDATA_LO 21, PCMLRCLK 20, GND 19, R_V 18, VGND 17, B_U 16, VGND 15, G_Y 14, VGND 13, CVBS 12, VGND 11, C 10, VGND 9, Y 8, VGND 7, AV_MUTE 6, SCART0/Line3 5, SCART1/Line3 4, NC/Line2 3, PS0 2, GND 1

T128 PCM_Data_Mic_In; T112 3132, T113 3163, T114 3164, T115 3165; T119, T120, T121, T123, T124, T125

PCM_LRCLK, PCM_BCLK, PCMDATA_LO, PCMCLK

VGND2, VGND, VGND1, DGND; 100n 2130 *; 2121 47p, 2124 47p, 2125 47p, 2126 47p

SCART1, SCART0; +5VL; 3141 22K, 3142 1K0, 3145 22K, 3146 1K0, 7109 BC847B, 7110 BC847B, 3112 910R, 3147 10K, 3143 1K0

R_V, B_U, G_Y, CVBS, C, Y, AV_MUTE, SCART0, SCART1

0|2|5

0|2|5
0 PAN-SCAN
2 LETTERBOX
5 WIDE

1100 20FMN-BTRK-A: GND_D 20, DIG_IN 19, VGND1 18, 0/2/5 17, -8Va 16, VGND1 15, +5VVID 14, VGND1 13, R_V 12, VGND1 11, B_U 10, VGND 9, G_Y 8, VGND1 7, CVBS 6, VGND2 5, C 4, VGND 3, Y 2, VGND 1

T143, T142, T141, T140 (7407-3) -8Va, 5VA, T139, T138 (7406-3) +5VVID, T137, T136, T130, T133, T131

VGND, VGND1, VGND2

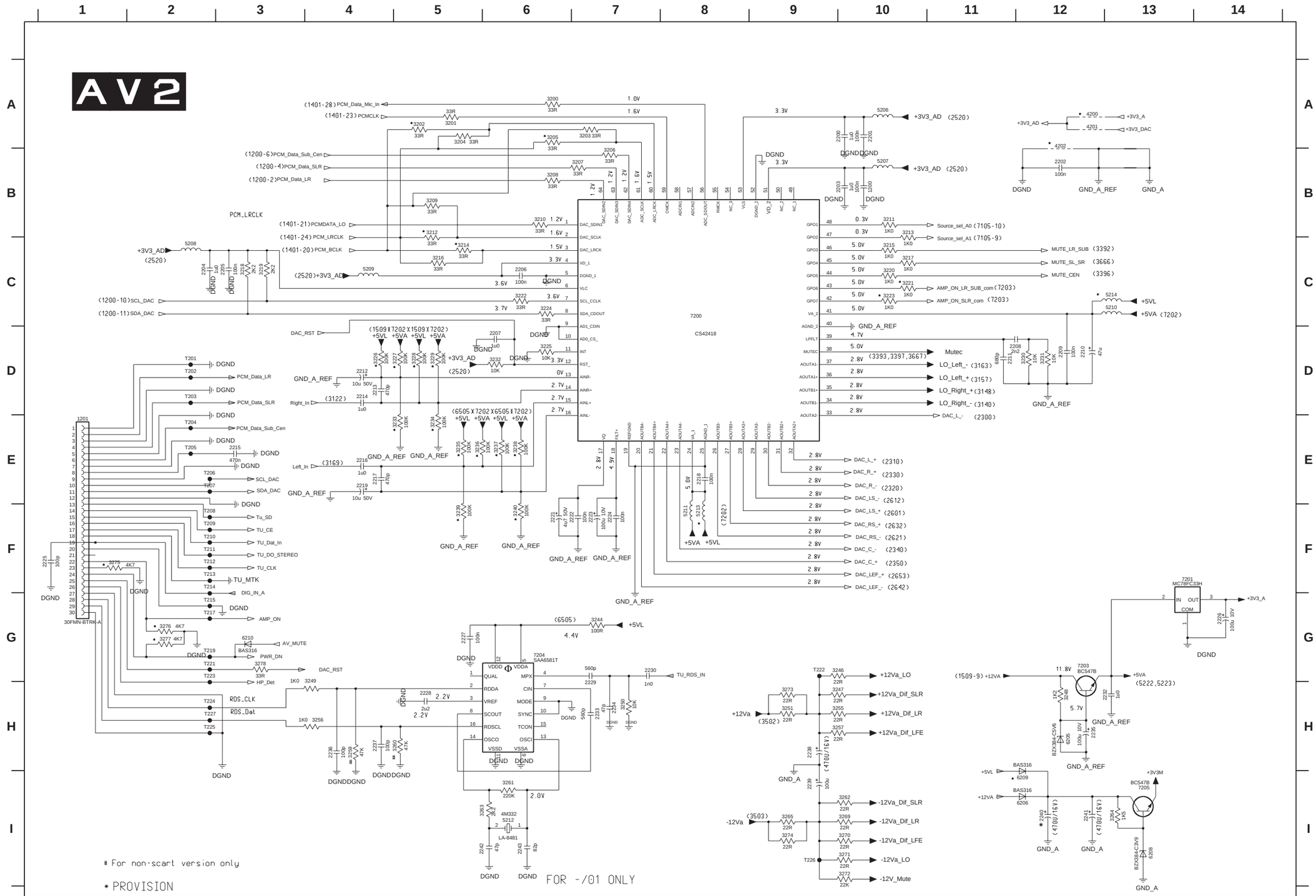
S.VIDEO

* OPTIONAL

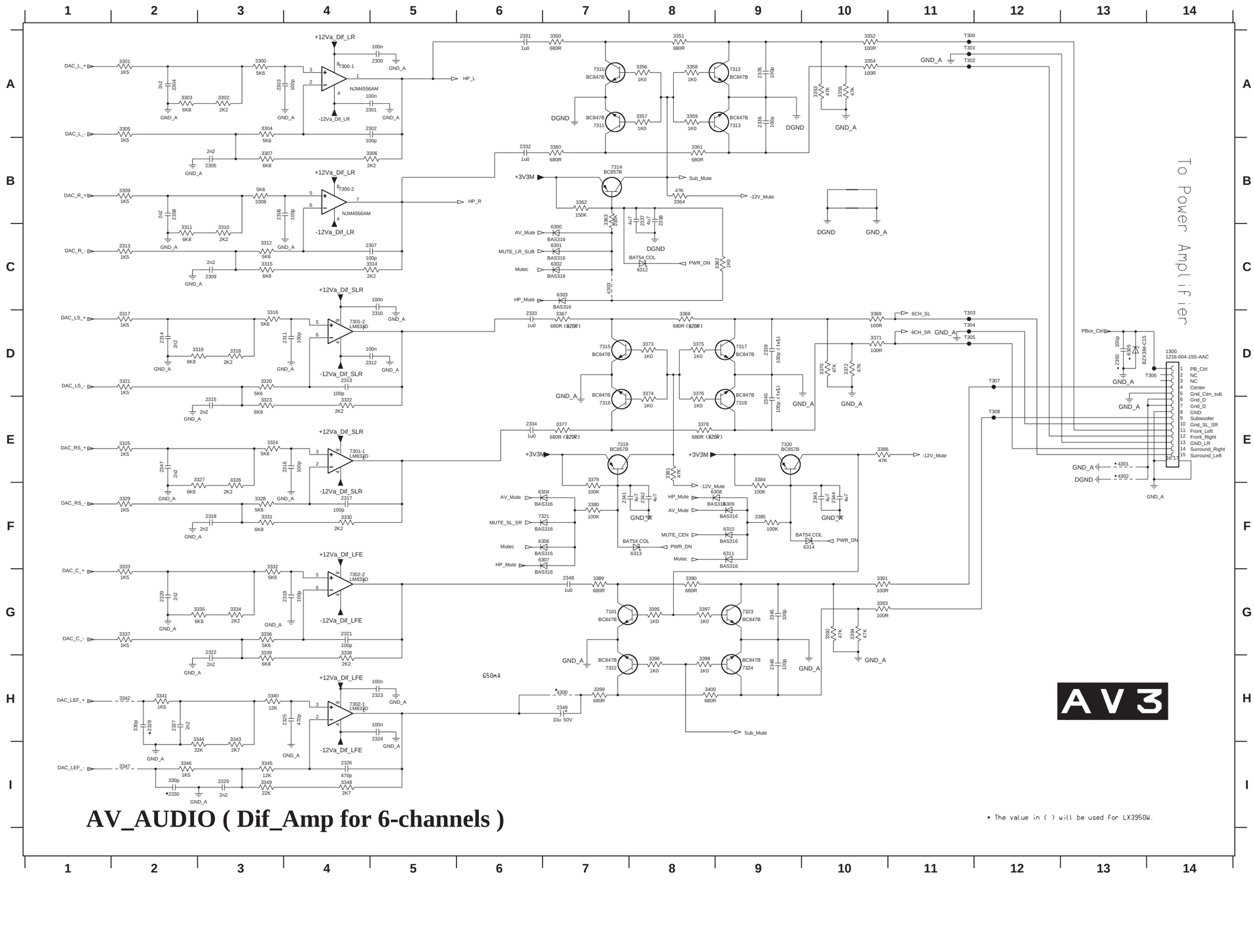
=

1100 E12
1101 A6
1102 F2
2100 B11
2121 F4
2124 F4
2125 F4
2126 F5
2130 F2
2131 B9
3110 B11
3112 D7
3117 B9
3131 B11
3132 D4
3141 D6
3142 D7
3143 D7
3144 C12
3145 D6
3146 E7
3147 D8
3148 C11
3163 D4
3164 D4
3165 D4
3166 A9
3167 A9
4101 B11
7105-1 B10
7105-2 B11
7105-3 B10
7109 D7
7110 E7
7111 A9
T101 A7
T103 A7
T104 B7
T105 B7
T106 B7
T107 B7
T108 B7
T109 B7
T112 D3
T113 D3
T114 D3
T115 D3
T119 E3
T120 E3
T121 E3
T123 F3
T124 F3
T125 F3
T128 D2
T130 D12
T131 E11
T133 E12
T136 D11
T137 D12
T138 D12
T139 D12
T140 D11
T141 D12
T142 D12
T143 C12

AV Board - Circuit Diagram (Part 2)



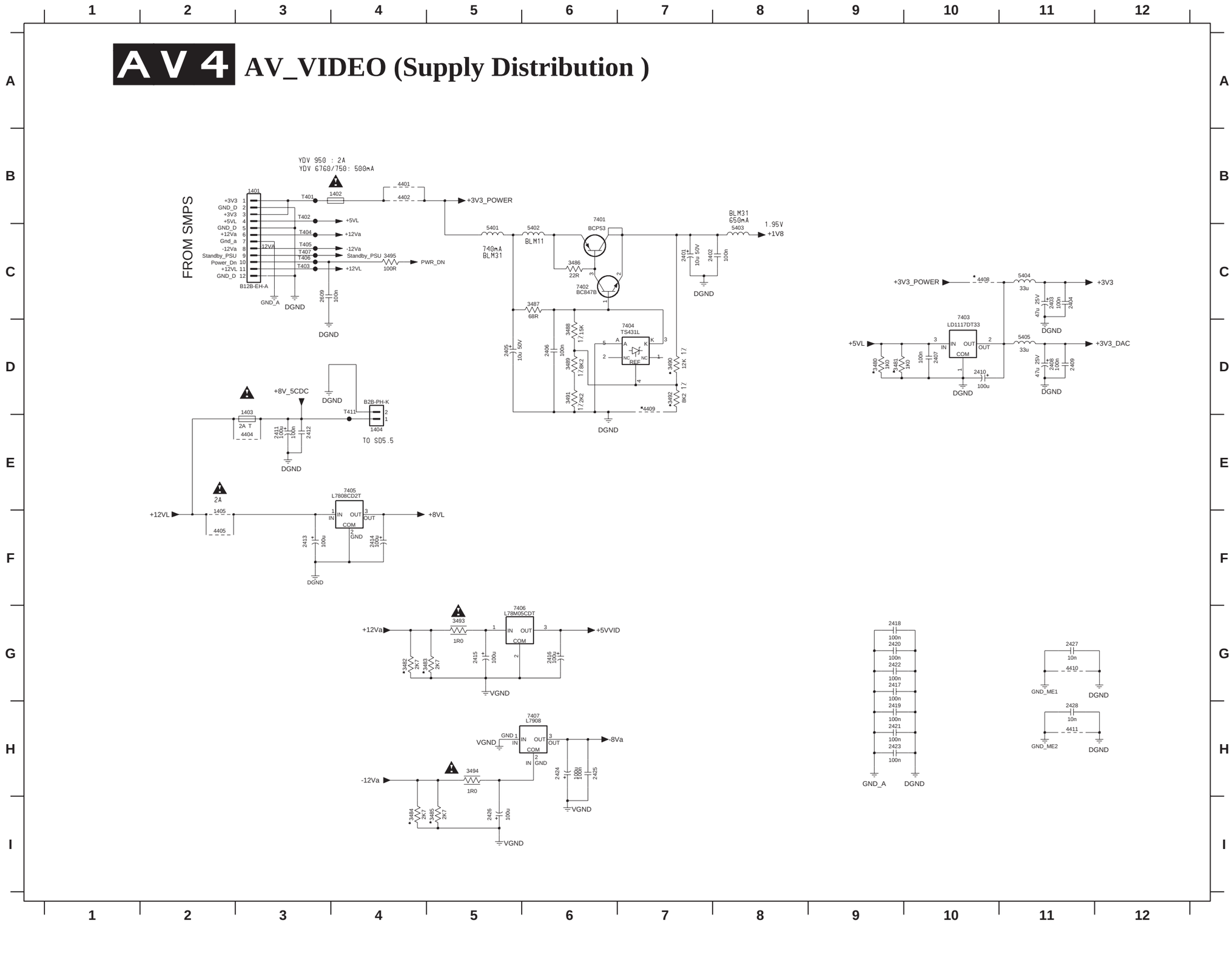
AV Board - Circuit Diagram (Part 3)



1300 D14	3363 B7	7301-2 D4	
2300 A5	3364 B8	7302-1 H4	
2301 A5	3367 D7	7302-2 G4	
2302 A5	3368 D8	7307 B3	
2303 A3	3369 D10	7308 B3	
2304 A2	3370 D10	7309 B2	
2305 B3	3371 D10	7310 C3	
2306 B3	3372 D10	7311 C2	
2307 C5	3373 D8	7312 C3	
2308 B2	3374 D8	7313 C2	
2309 C3	3375 D8	7314 C5	
2310 D5	3376 D8	7315 D3	
2311 D4	3377 E7	7316 E3	
2312 D5	3378 E8	7317 D9	
2313 D4	3379 E7	7318 E9	
2314 D2	3380 F7	7319 E7	
2315 E3	3381 E8	7320 E9	
2316 E4	3382 C9	7321 F7	
2317 F4	3384 E9	7322 H7	
2318 F3	3385 F9	7323 G9	
2319 G4	3386 E10	7324 H9	
2320 G2	3389 G7	T300 A11	
2321 G4	3390 G8	T301 A11	
2322 G3	3391 G10	T302 A11	
2323 H5	3392 G10	T303 D11	
2324 H5	3393 G10	T304 D11	
2325 H4	3394 G10	T305 D11	
2326 I4	3395 G8	T306 D14	
2327 H2	3396 H8	T307 D12	
2328 H2	3397 G8	T308 E12	
2329 I3	3398 H8		
2330 I2	3399 H7		
2331 A6	3400 H8		
2332 B6	4300 H7		
2333 D6	4301 E13		
2334 E6	4302 E13		
2335 A9	4303 C7		
2336 A9	6300 C7		
2337 B8	6301 C7		
2338 B8	6302 C7		
2339 D9	6303 C7		
2340 E9	6304 F7		
2341 F7	6305 D13		
2342 F8	6306 F7		
2343 F10	6307 F7		
2344 F10	6308 F9		
2345 G9	6309 F9		
2346 H9	6310 F9		
2347 E2	6311 F9		
2348 G7	6312 C8		
2349 H7	6313 F8		
2350 D13	6314 F10		
3300 A3	7101 G7		
3301 A2	7300-1 A4		
3302 A3	7300-2 B4		
3303 A2	7301-1 E4		
3304 A3	7301-2 D4		
3305 A2	7302-1 H4		
3306 B5	7302-2 G4		
3307 B3	7310 A7		
3308 B3	7311 A7		
3309 B2	7312 A9		
3310 C3	7313 A9		
3311 C2	7314 B7		
3312 C3	7315 D7		
3313 C2	7316 E7		
3314 C5	7317 D9		
3315 C3	7318 E9		
3316 D3	7319 E7		
3317 D2	7320 E9		
3318 D3	7321 F7		
3319 D3	7322 H7		
3320 D3	7323 G9		
3321 D2	7324 H9		
3322 E4	T300 A11		
3323 E3	T301 A11		
3324 E3	T302 A11		
3325 E2	T303 D11		
3326 E3	T304 D11		
3327 E3	T305 D11		
3328 F3	T306 D14		
3329 F2	T307 D12		
3330 F4	T308 E12		
3331 F3			
3332 F3			
3333 F2			
3334 G3			
3335 G3			
3336 G3			
3337 G2			
3338 G4			
3339 G3			
3340 H3			
3341 H2			
3342 H2			
3343 H3			
3344 H3			
3345 I3			
3346 I2			
3347 I2			
3348 I4			
3349 I3			
3350 A7			
3351 A8			
3352 A10			
3353 A10			
3354 A10			
3355 A10			
3356 A8			
3357 A8			
3358 A8			
3359 A8			
3360 B7			
3361 B8			
3362 B7			

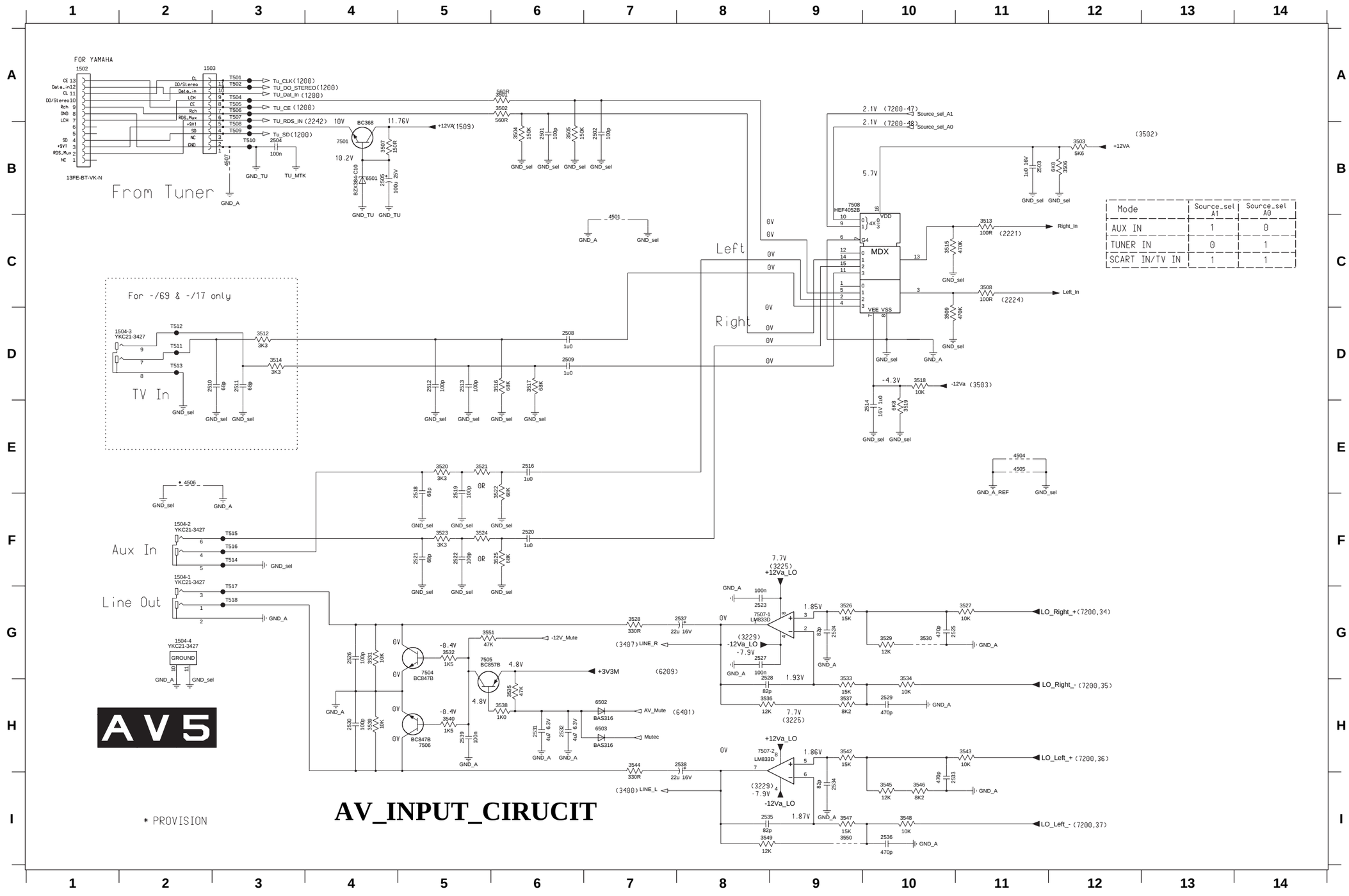
AV Board - Circuit Diagram (Part 4)

AV 4 AV_VIDEO (Supply Distribution)



1401 B3
1402 B4
1403 E3
1404 E4
1405 F2
2401 C7
2402 C7
2403 C11
2404 C11
2405 D5
2406 D6
2407 D10
2408 D11
2409 D11
2410 D10
2411 E3
2412 E3
2413 F3
2414 F4
2415 G5
2416 G6
2417 G9
2418 G9
2419 H9
2420 G9
2421 H9
2422 G9
2423 H9
2424 H6
2425 H6
2426 I5
2427 G11
2428 H11
2609 C3
3480 D9
3481 D9
3482 G4
3483 G5
3484 I4
3485 I5
3486 C6
3487 C6
3488 D6
3489 D6
3490 D7
3491 D6
3492 D7
3493 G5
3494 H5
3495 C4
4401 B4
4402 B4
4404 E3
4405 F2
4408 C10
4409 D7
4410 G11
4411 H11
5401 C5
5402 C6
5403 C8
5404 C11
5405 D11
7401 B6
7402 C6
7403 D10
7404 D7
7405 E4
7406 G5
7407 H6
T401 B3
T402 B3
T403 C3
T404 C3
T405 C3
T406 C3
T407 C3
T411 D4

AV Board - Circuit Diagram (Part 5)

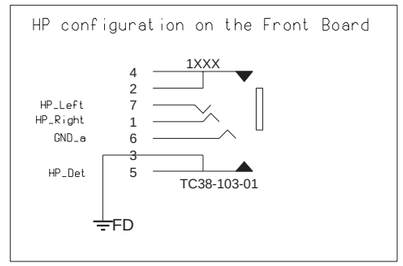


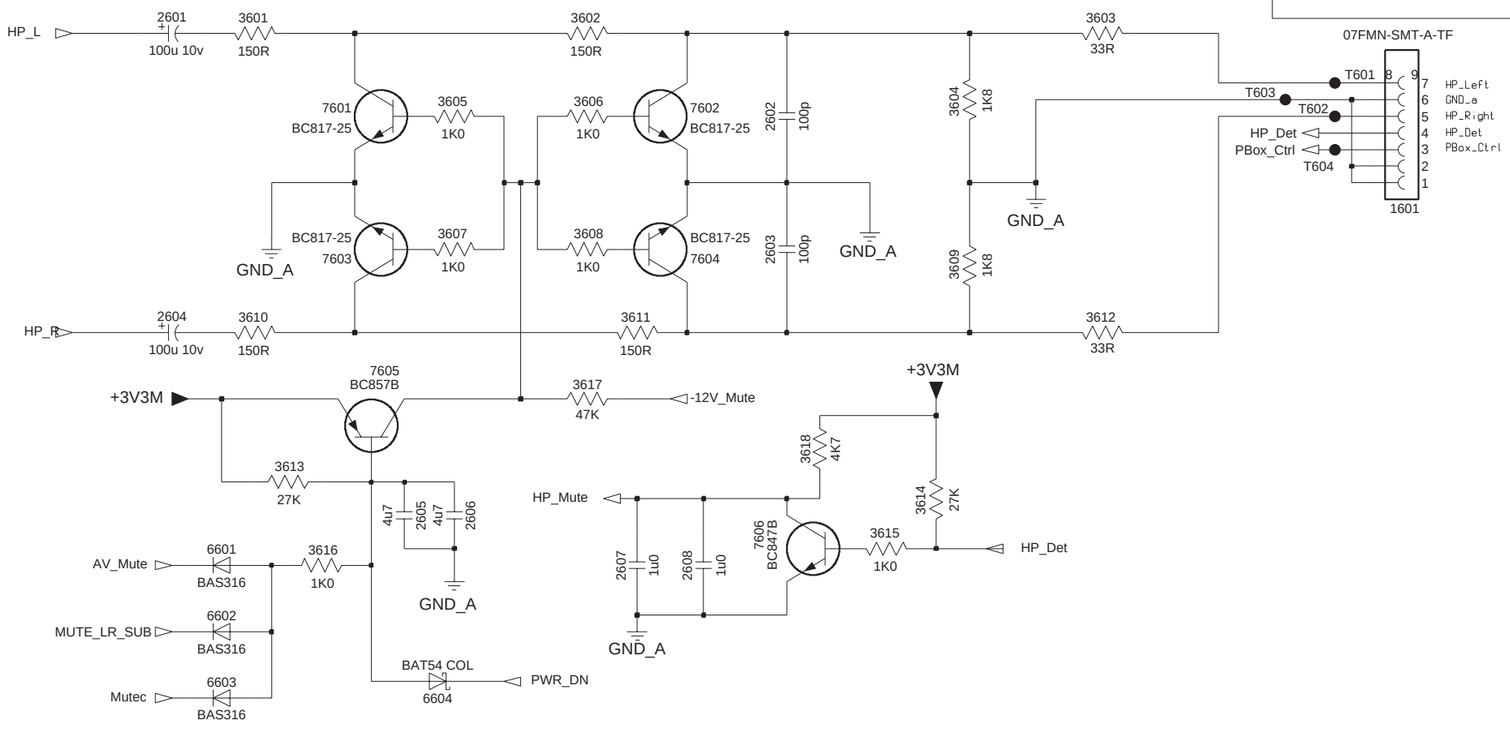
1502 A1
1503 A2
1504-1 F2
1504-2 F2
1504-3 D2
1504-4 G2
2501 B6
2502 B7
2503 B11
2504 B3
2505 B4
2508 D6
2509 D6
2510 D2
2511 D3
2512 D5
2513 D5
2514 E10
2516 E6
2518 E5
2519 E5
2520 F6
2521 F5
2522 F5
2523 G8
2524 G9
2525 G10
2526 G4
2527 G8
2528 H8
2529 H10
2530 H4
2531 H6
2532 H6
2533 I10
2534 I9
2535 I8
2536 I10
2537 G8
2538 H8
2539 H5
3501 A6
3502 A6
3503 B12
3504 B6
3505 B6
3506 B12
3507 B4
3508 C11
3509 D10
3512 D3
3513 C11
3514 D3
3515 C10
3516 D6
3517 D6
3518 D10
3519 E10
3520 E5
3521 E5
3522 E6
3523 F5
3524 F5
3525 F6
3526 G9
3527 G11
3528 G7
3529 G10
3530 G10
3531 G4
3532 G5
3533 H9
3534 H10
3535 H6
3536 H8
3537 H9
3538 H6
3539 H4
3540 H5
3542 H9
3543 H11
3544 H7
3545 I10
3546 I10
3547 I9
3548 I10
3549 I8
3550 I9
3551 G5
4501 C7
4504 E11
4505 E11
4506 E2
4507 B3
6501 B4
6502 H7
6503 H7
7501 B4
7504 G5
7505 G5
7506 H5
7507-1 G9
7507-2 H9
7508 B9
T501 A3
T502 A3
T504 A3
T505 A3
T506 A3
T507 A3
T508 B3
T509 B3
T510 B3
T511 D2
T512 D2
T513 D2
T514 F3
T515 F3
T516 F3
T517 F3
T518 G3

AV Board - Circuit Diagram (Part 6)

AV6

HP_Det	HP_Mute	Description
H	L	Headphone In
L	H	Unplug Headphone

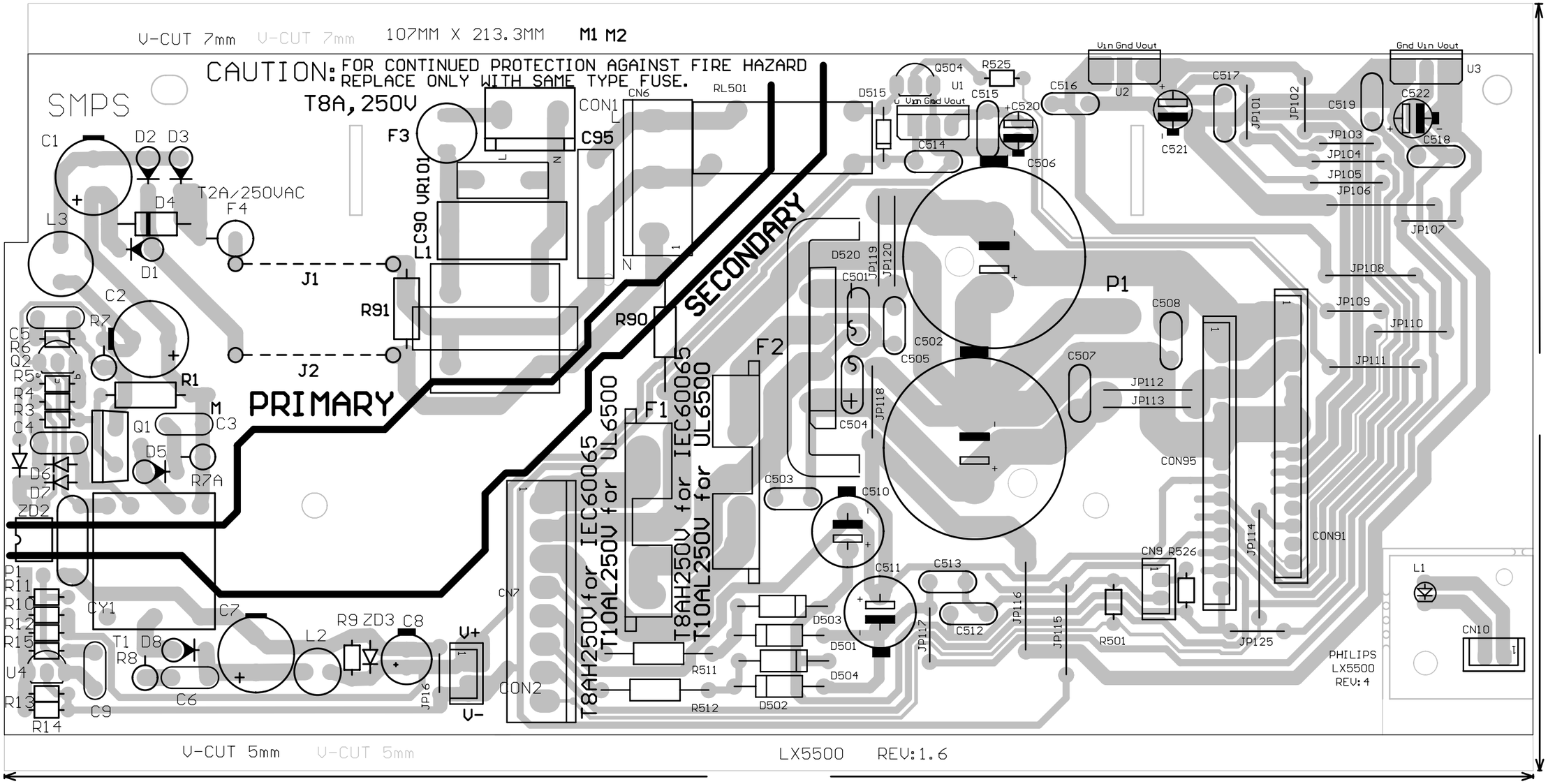




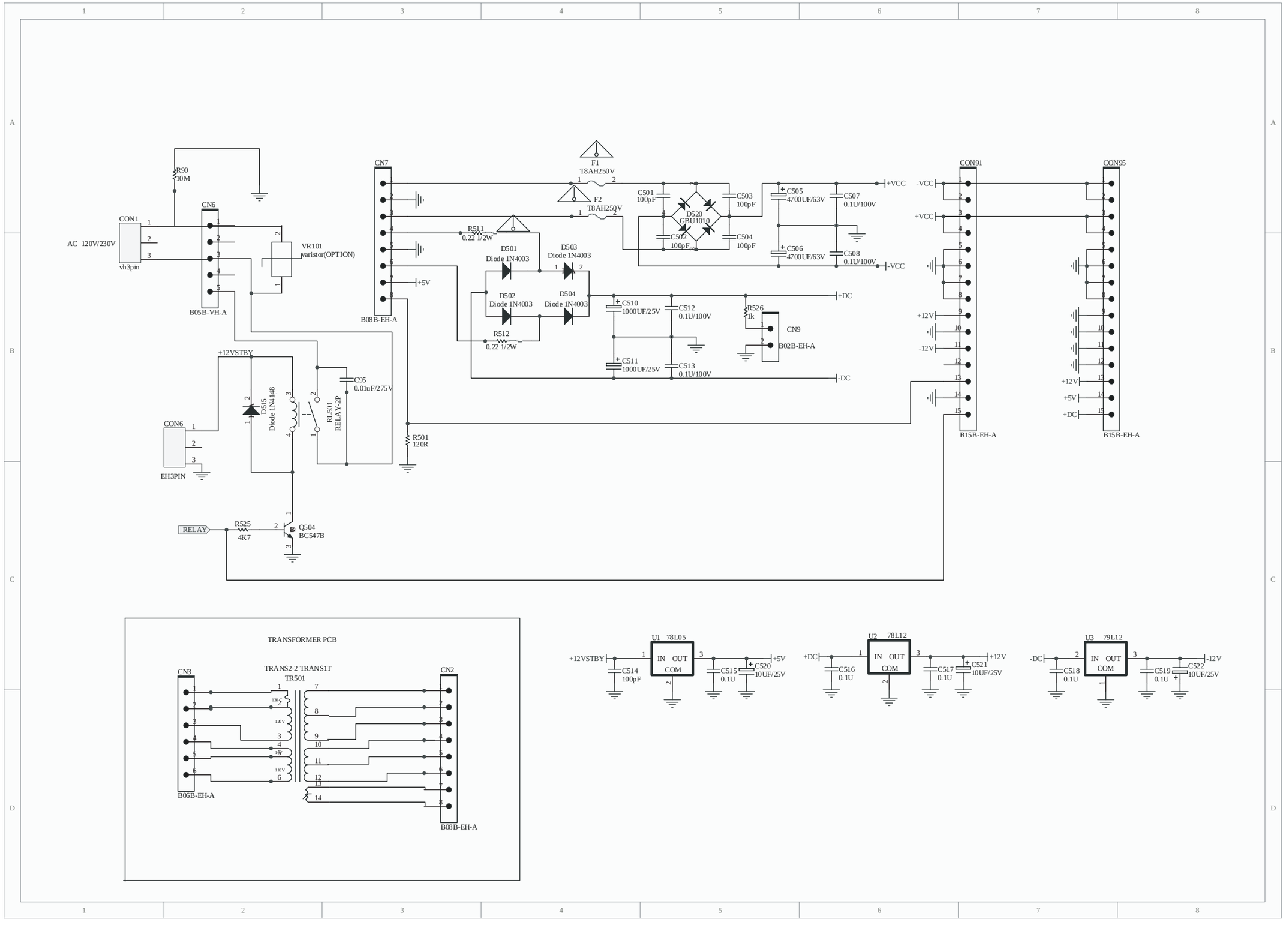
AV_HEADPHONE

1601 C7
2601 B2
2602 B5
2603 C5
2604 C2
2605 D3
2606 D3
2607 D4
2608 D4
3601 B2
3602 B4
3603 B6
3604 B5
3605 B3
3606 B4
3607 C3
3608 C4
3609 C5
3610 C2
3611 C4
3612 C6
3613 D2
3614 D5
3615 D5
3616 D3
3617 C4
3618 D5
6601 D2
6602 D2
6603 E2
6604 E3
7601 B3
7602 B4
7603 C3
7604 C4
7605 C3
7606 D5
T601 B7
T602 B7
T603 B7
T604 B7

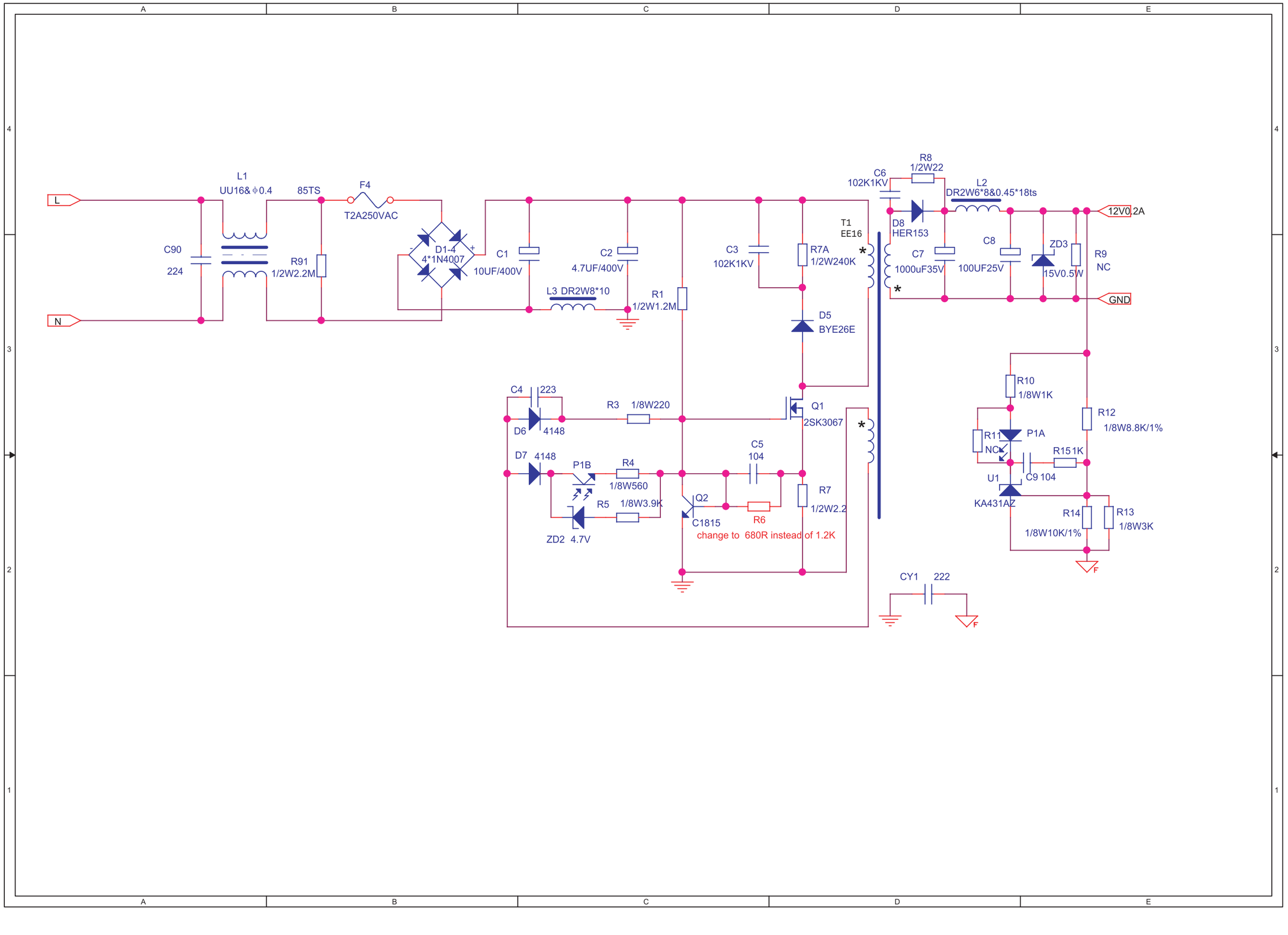
8. Powerbox Spk Assy SW5500C
Power Supply Unit - Top view layout



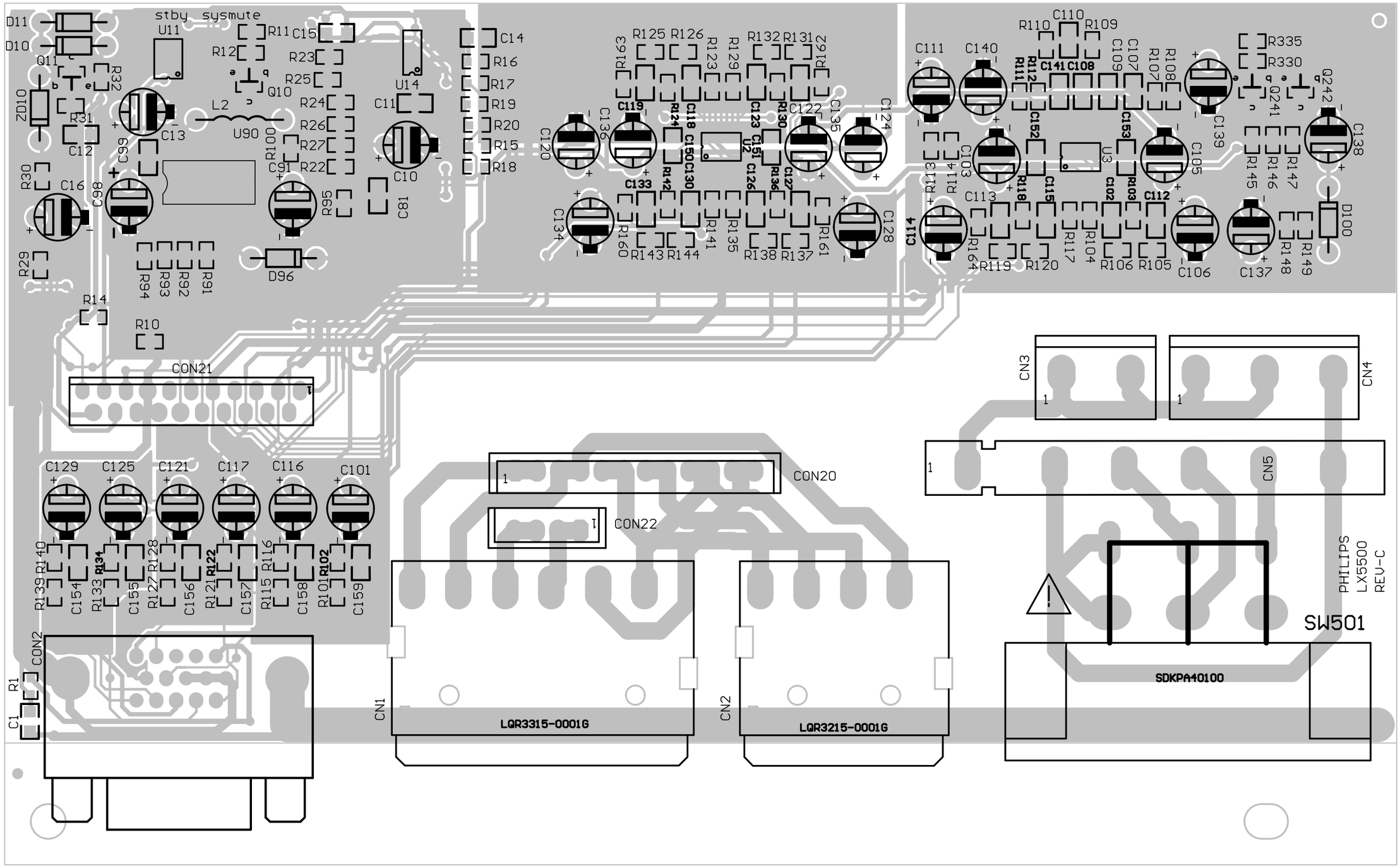
Power Supply Unit - Circuit Diagram (Part 1)



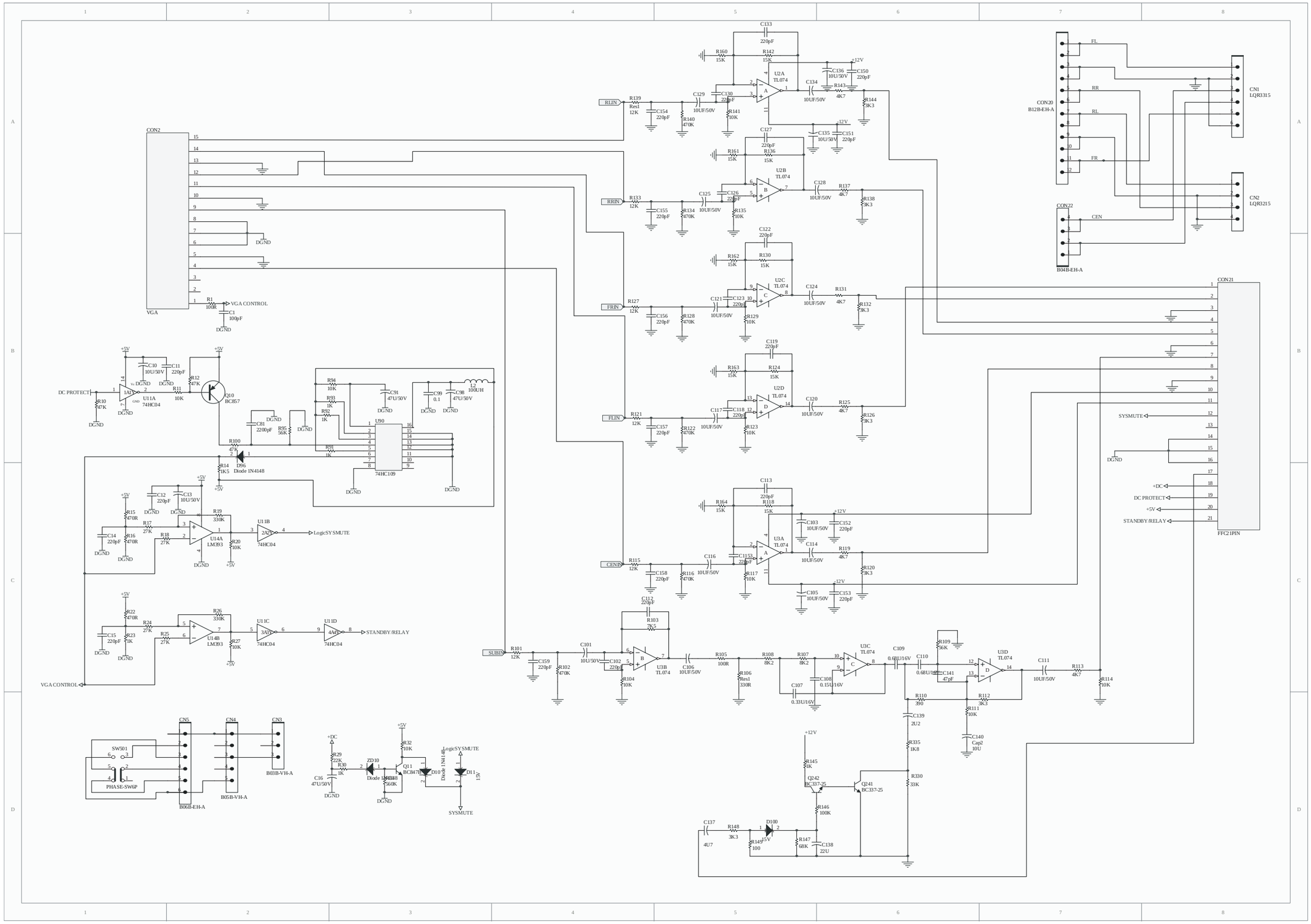
Power Supply Unit - Circuit Diagram (Part 2)



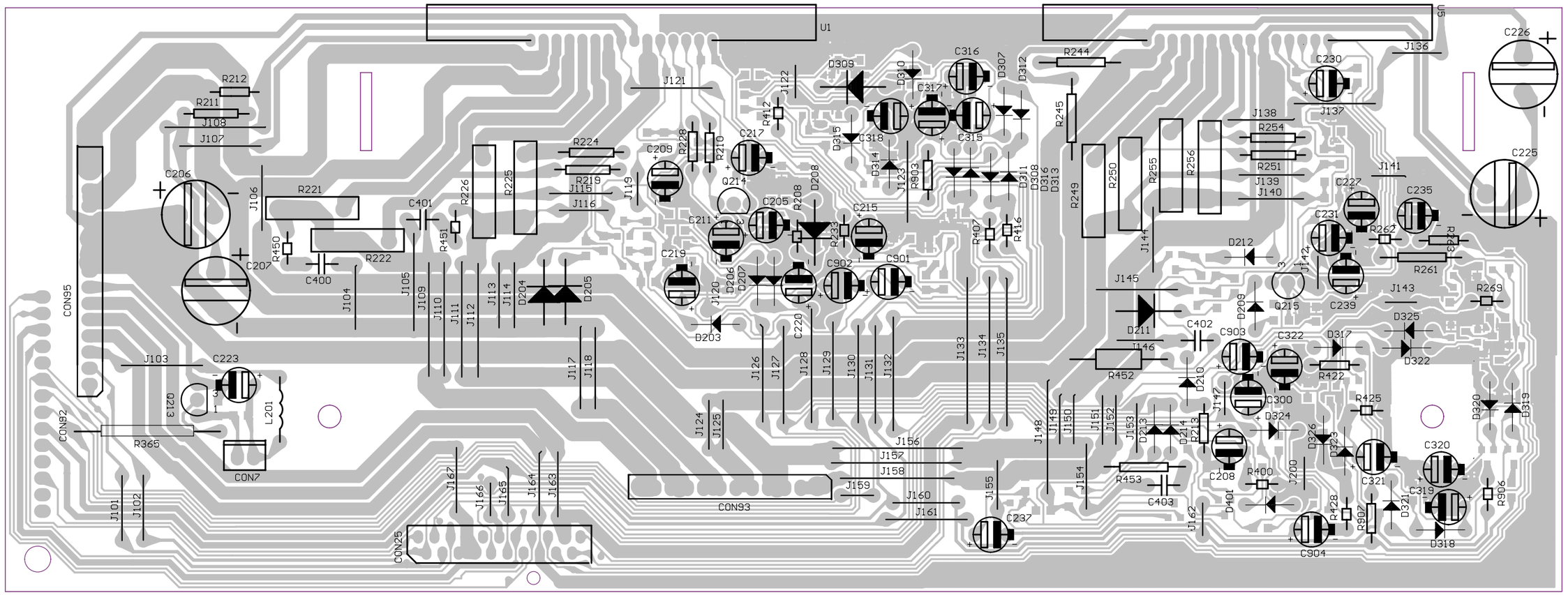
Interface - Top view layout



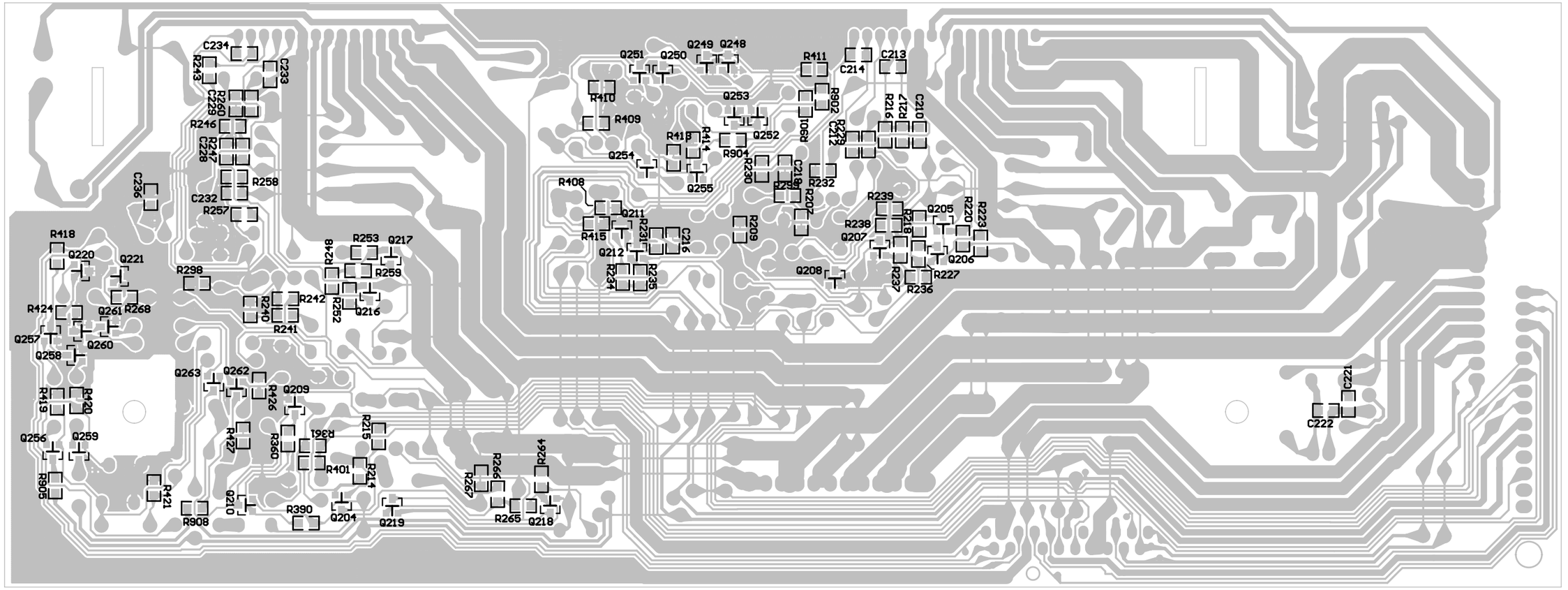
Interface - Circuit Diagram (Part 1)



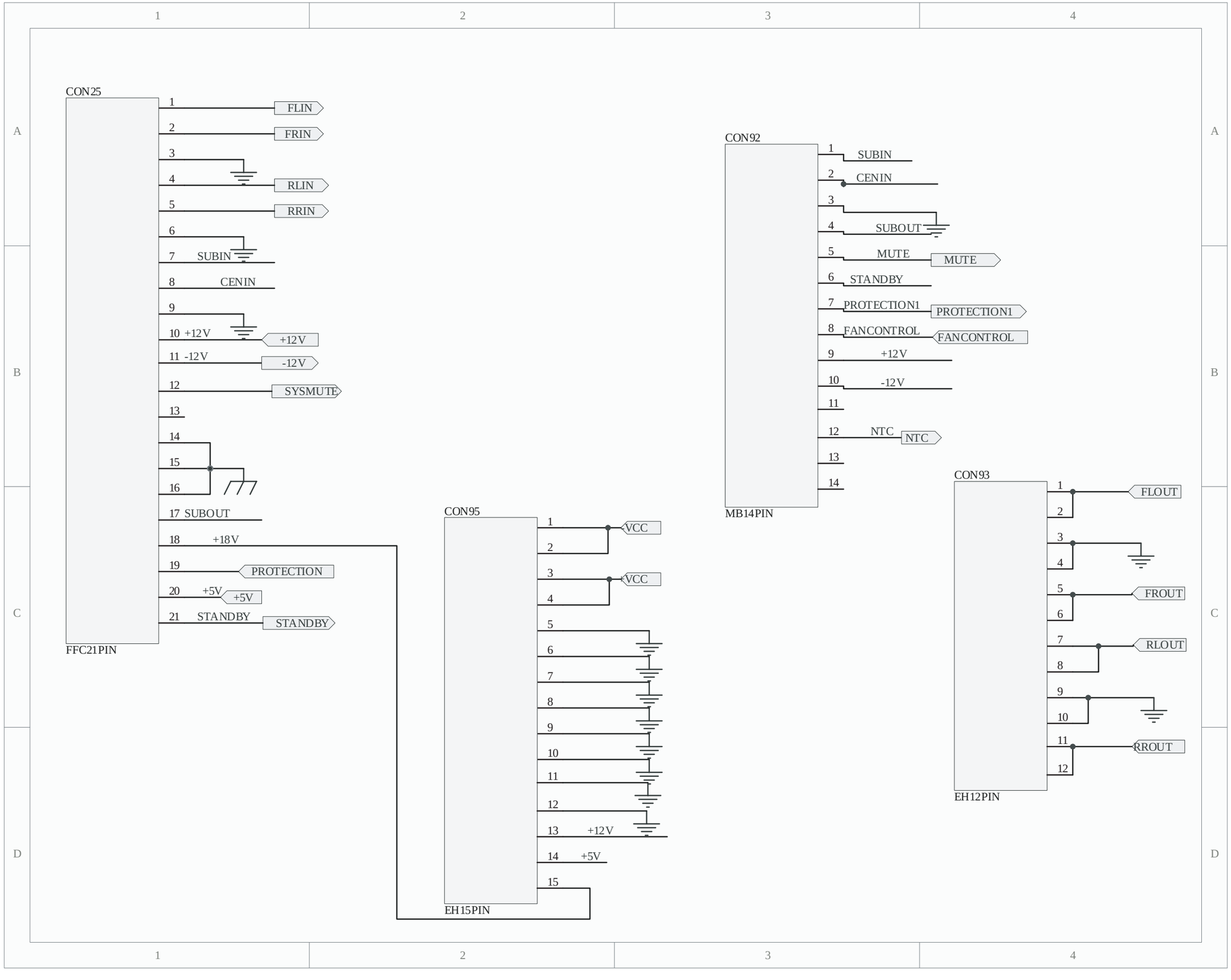
Main Amplifer - Top view layout



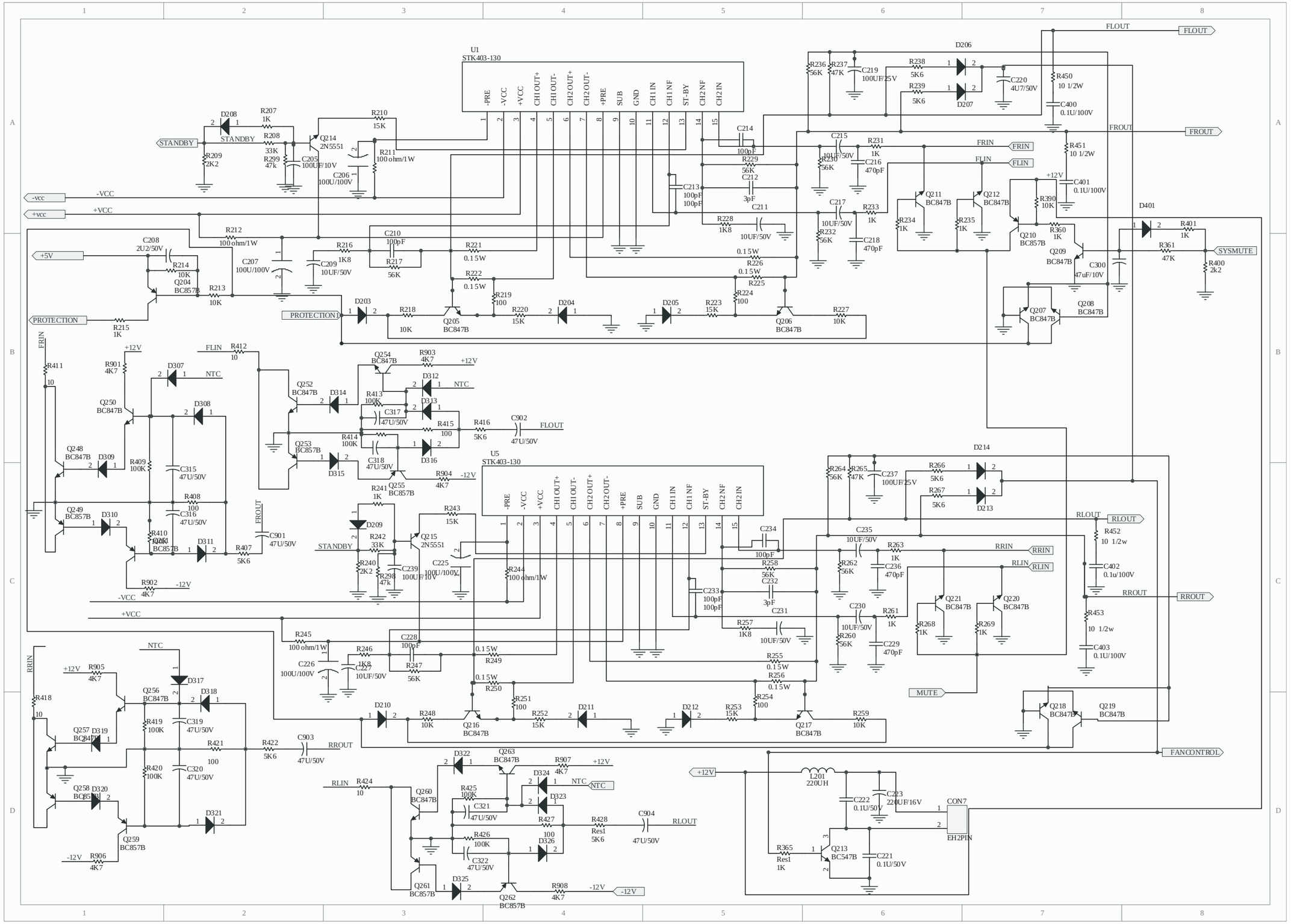
Main Amplifer - Bottom view layout



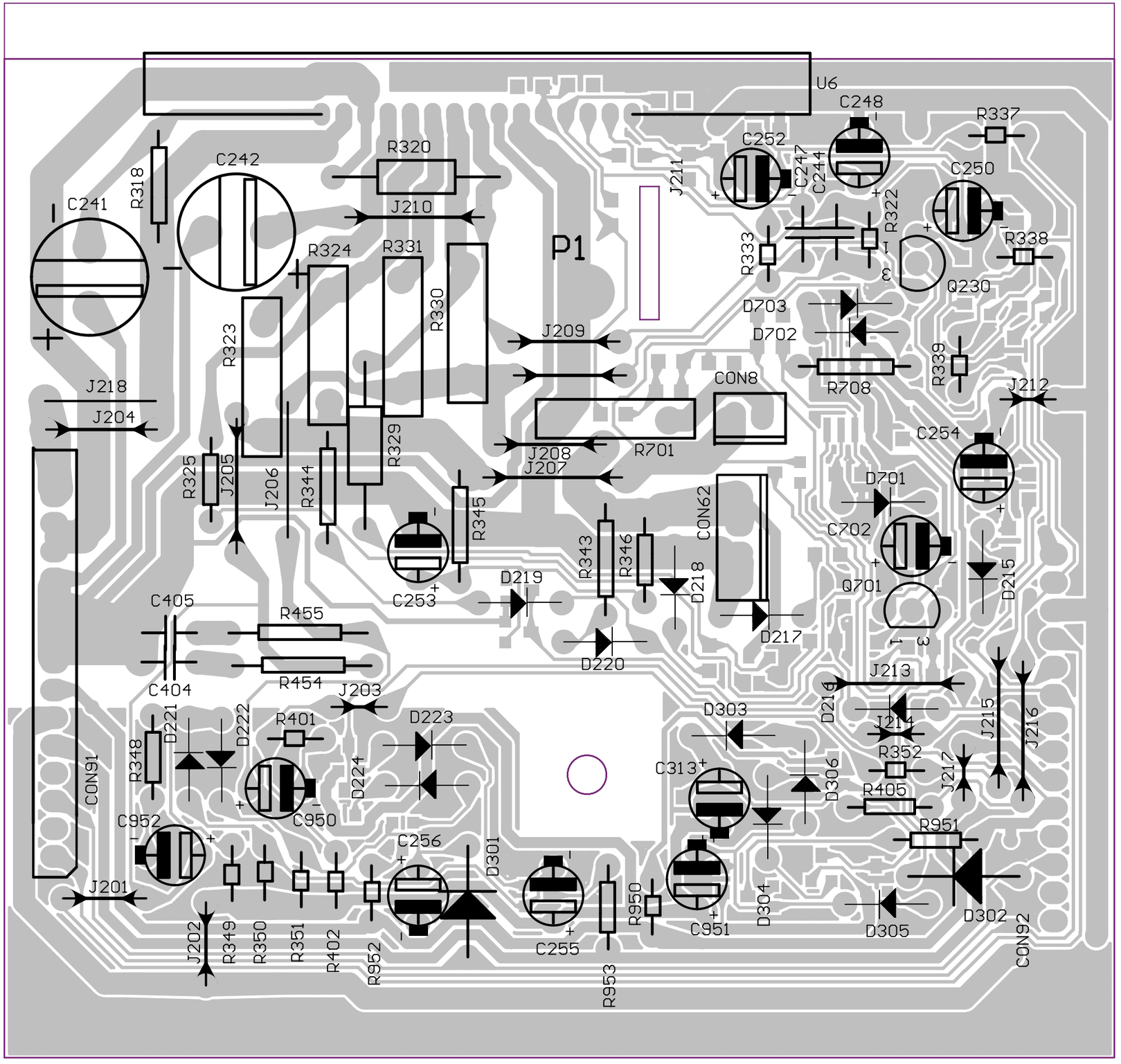
Connector schematic



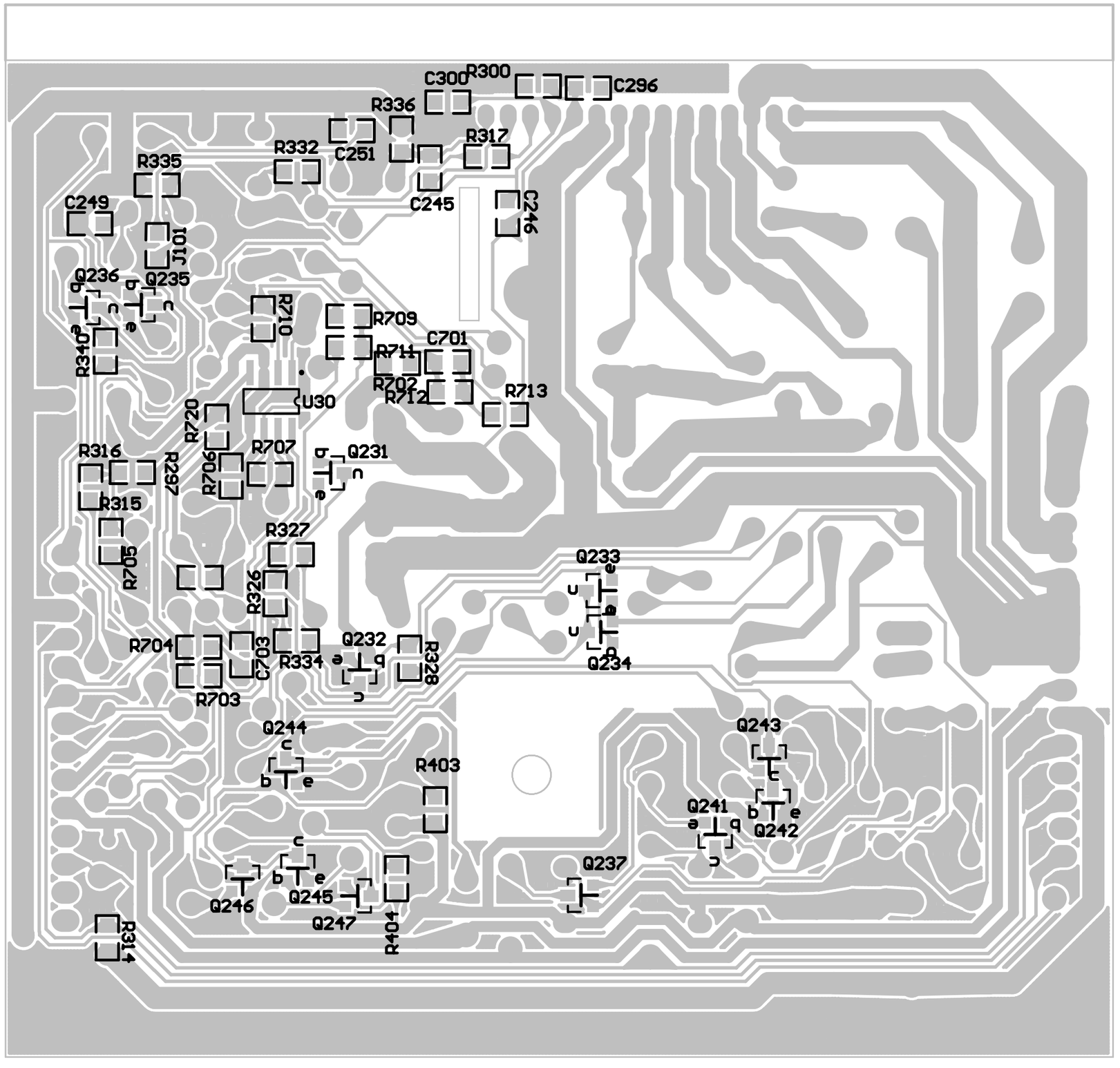
FR+SURROUND amplifier schematic



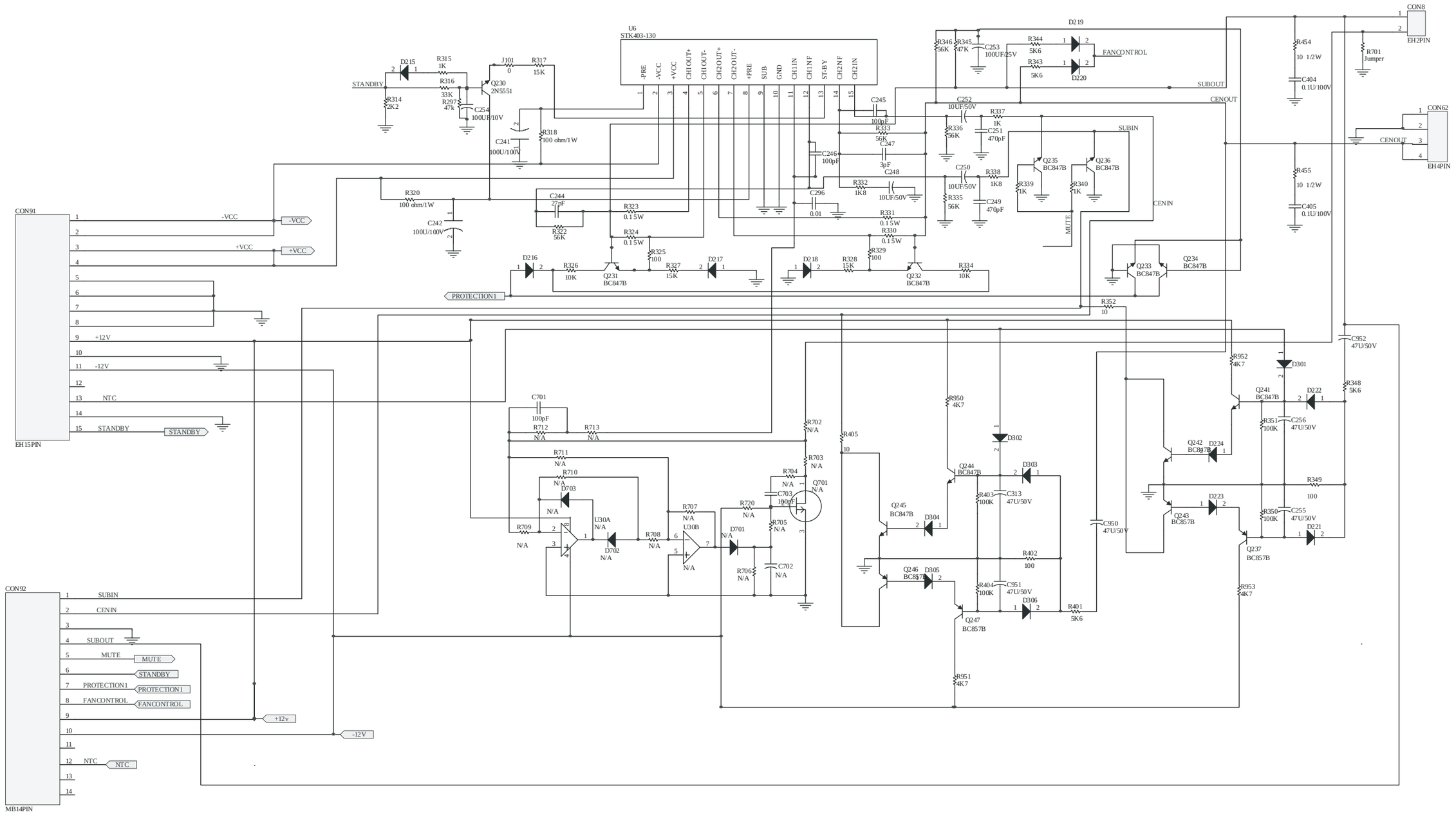
Subwoofer Amplifer - Top view layout



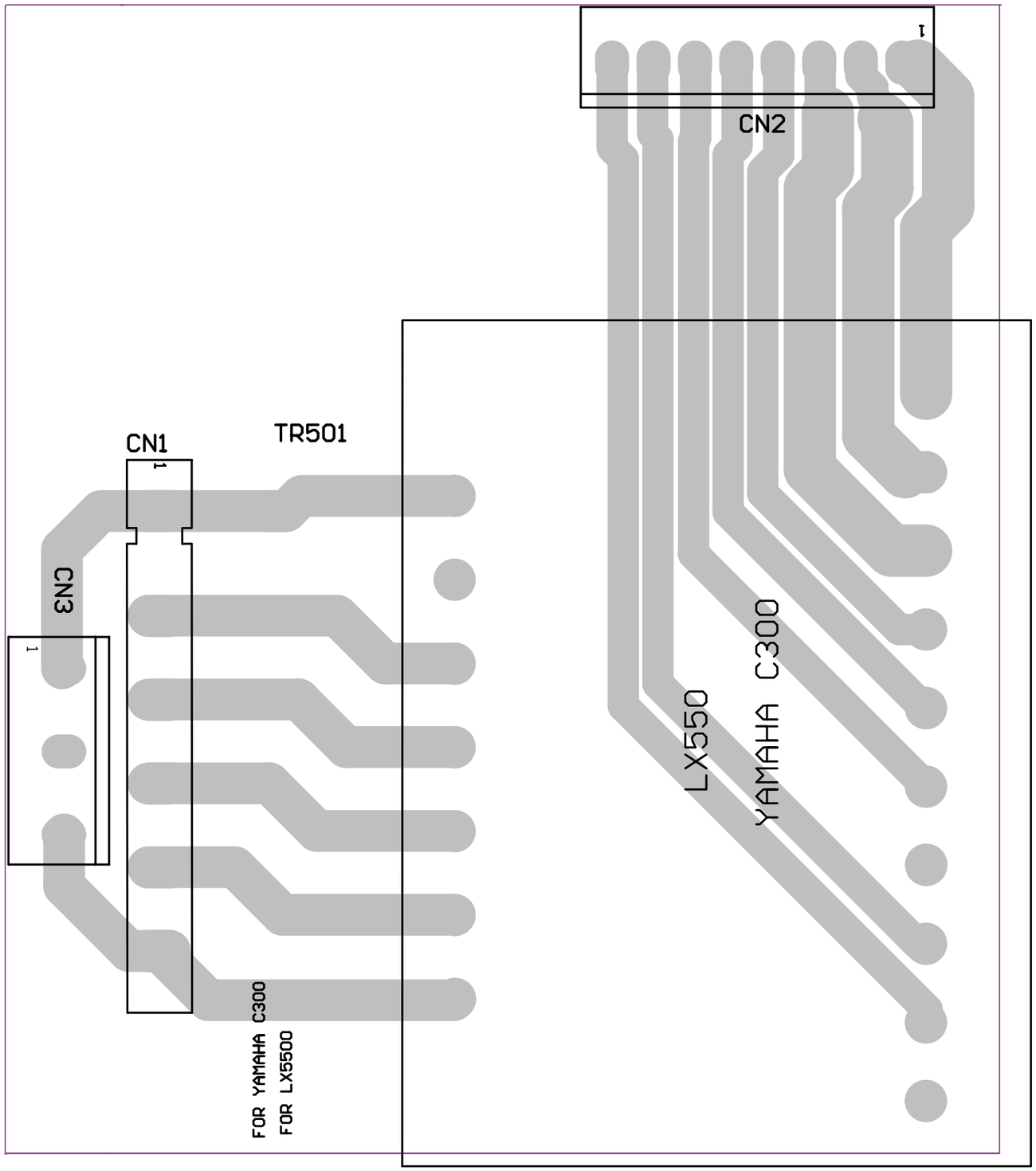
Subwoofer Amplifer - Bottom view layout



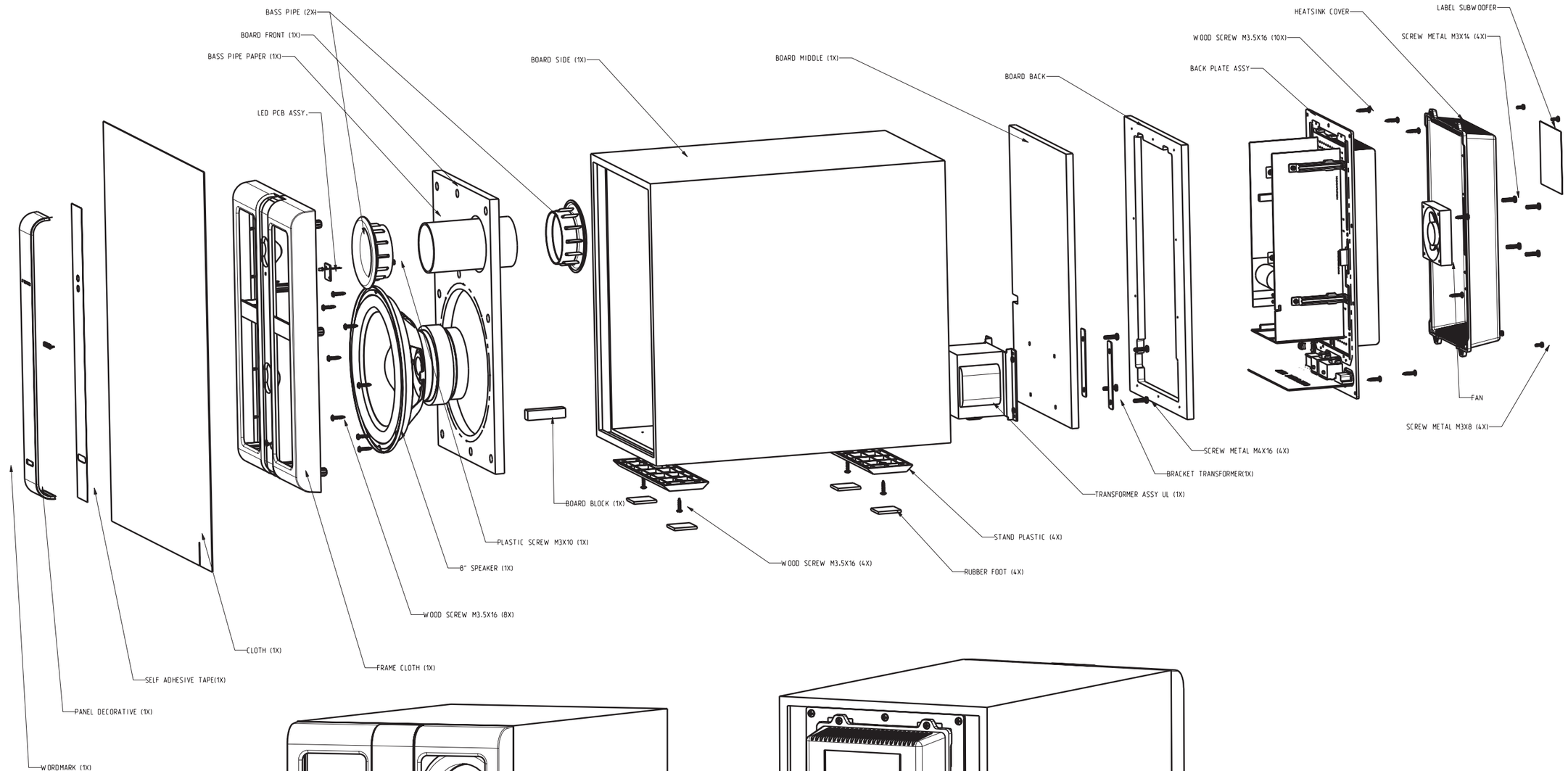
Subwoofer amplifier schematic

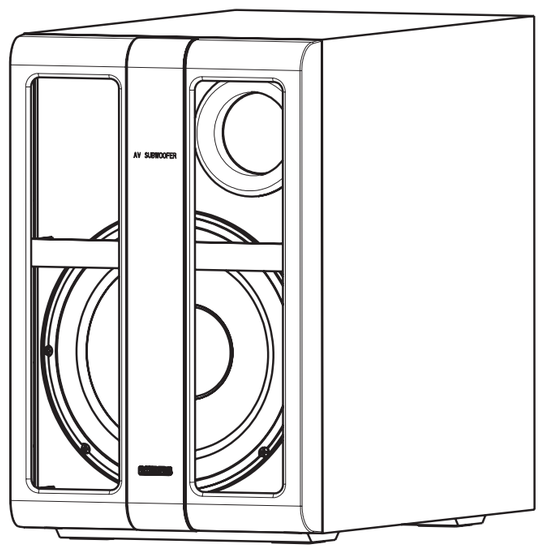


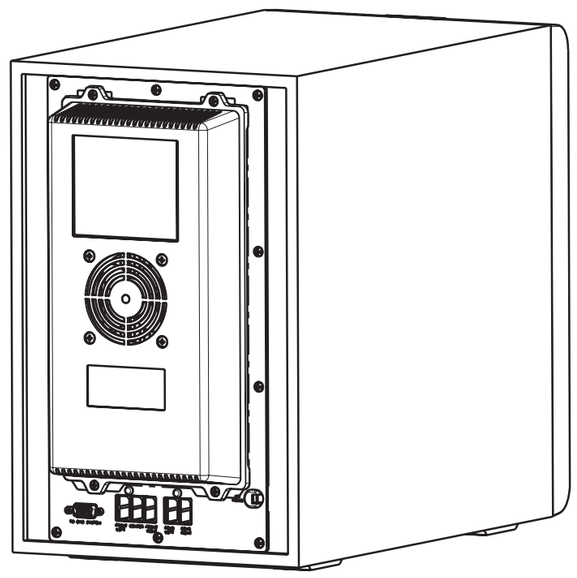
Transformer - Top silk layout



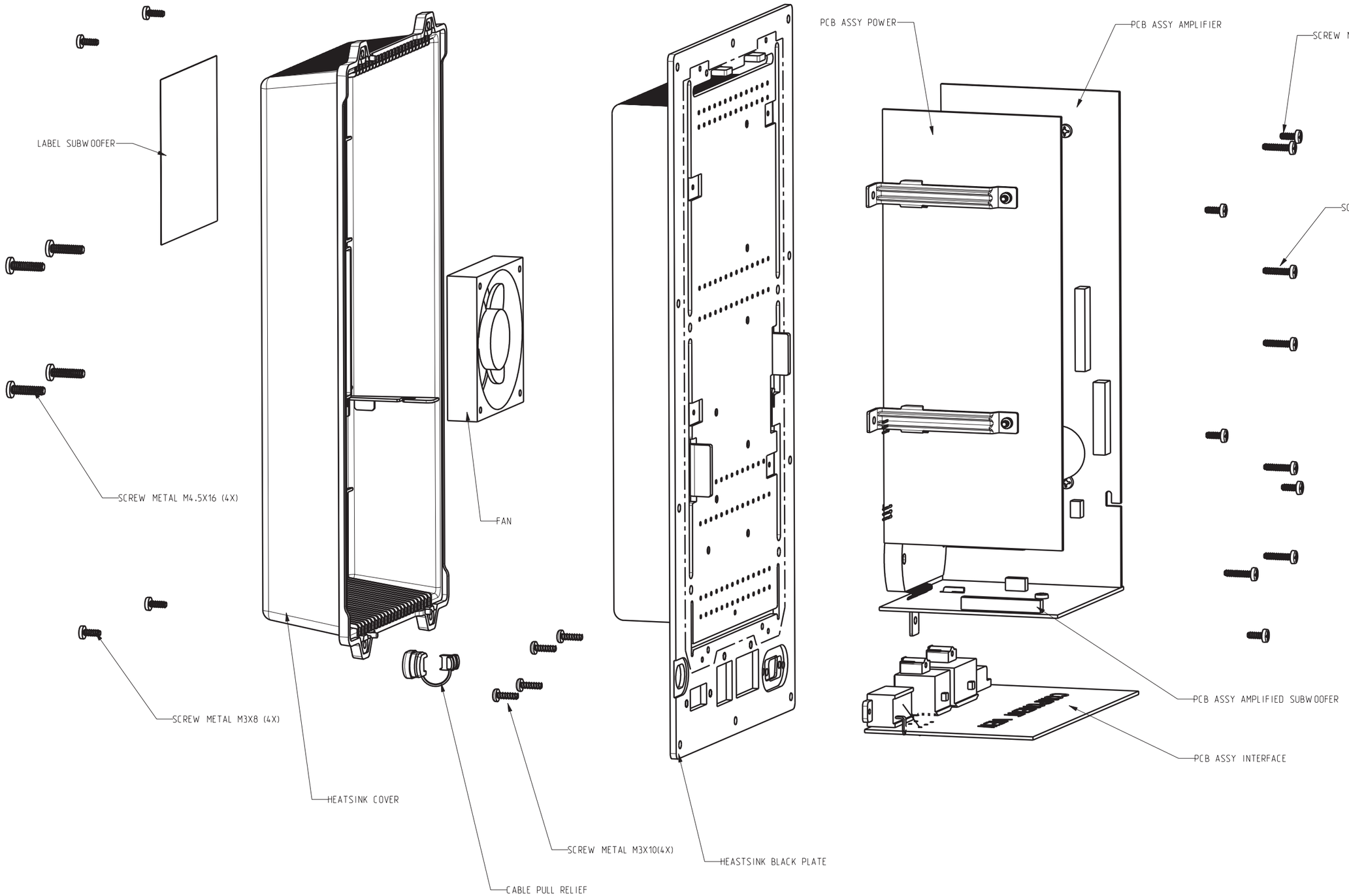
Exploded View - Box Spk Assy SW5500C







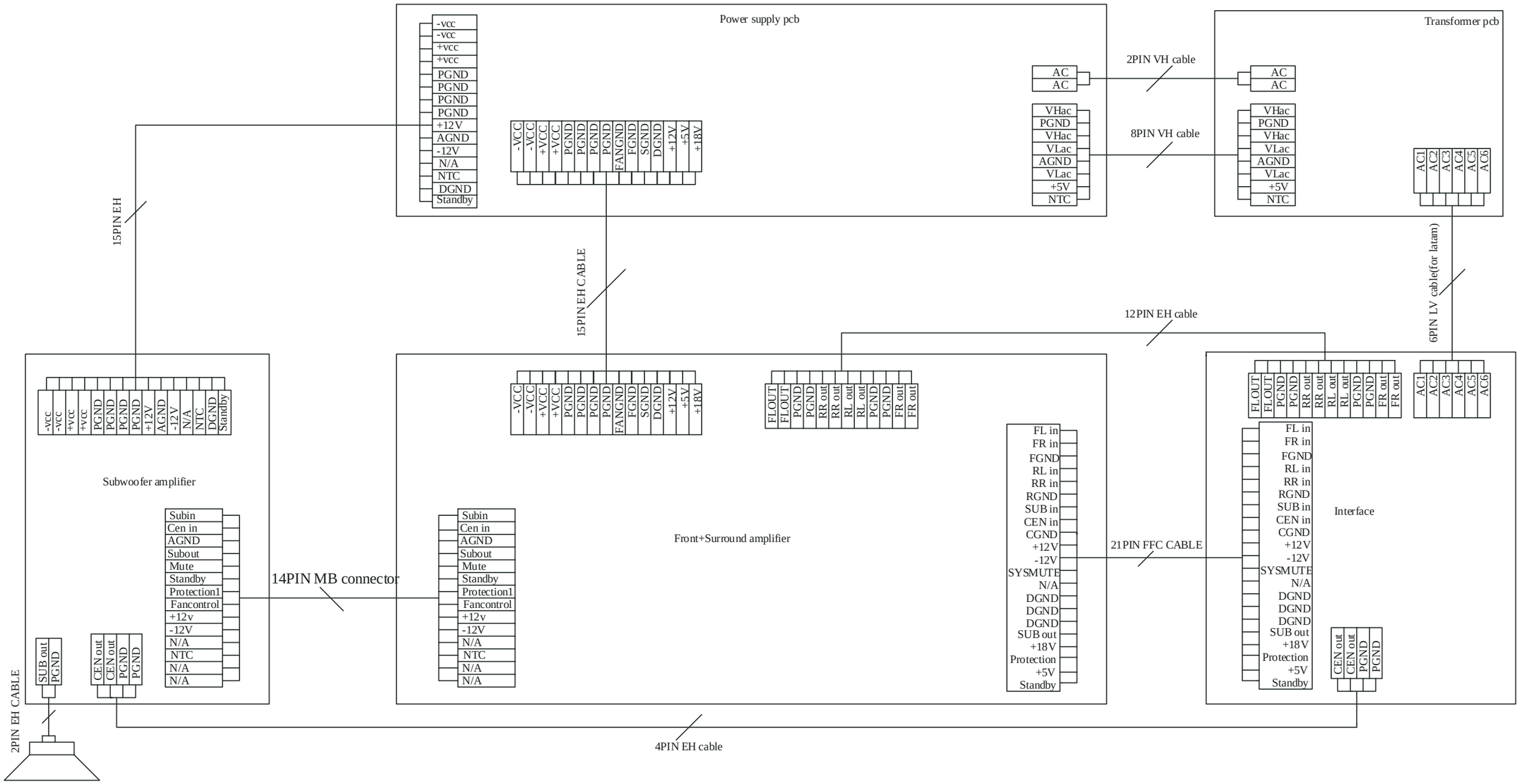
Exploded View - Module



Wiring Diagram SW5500C

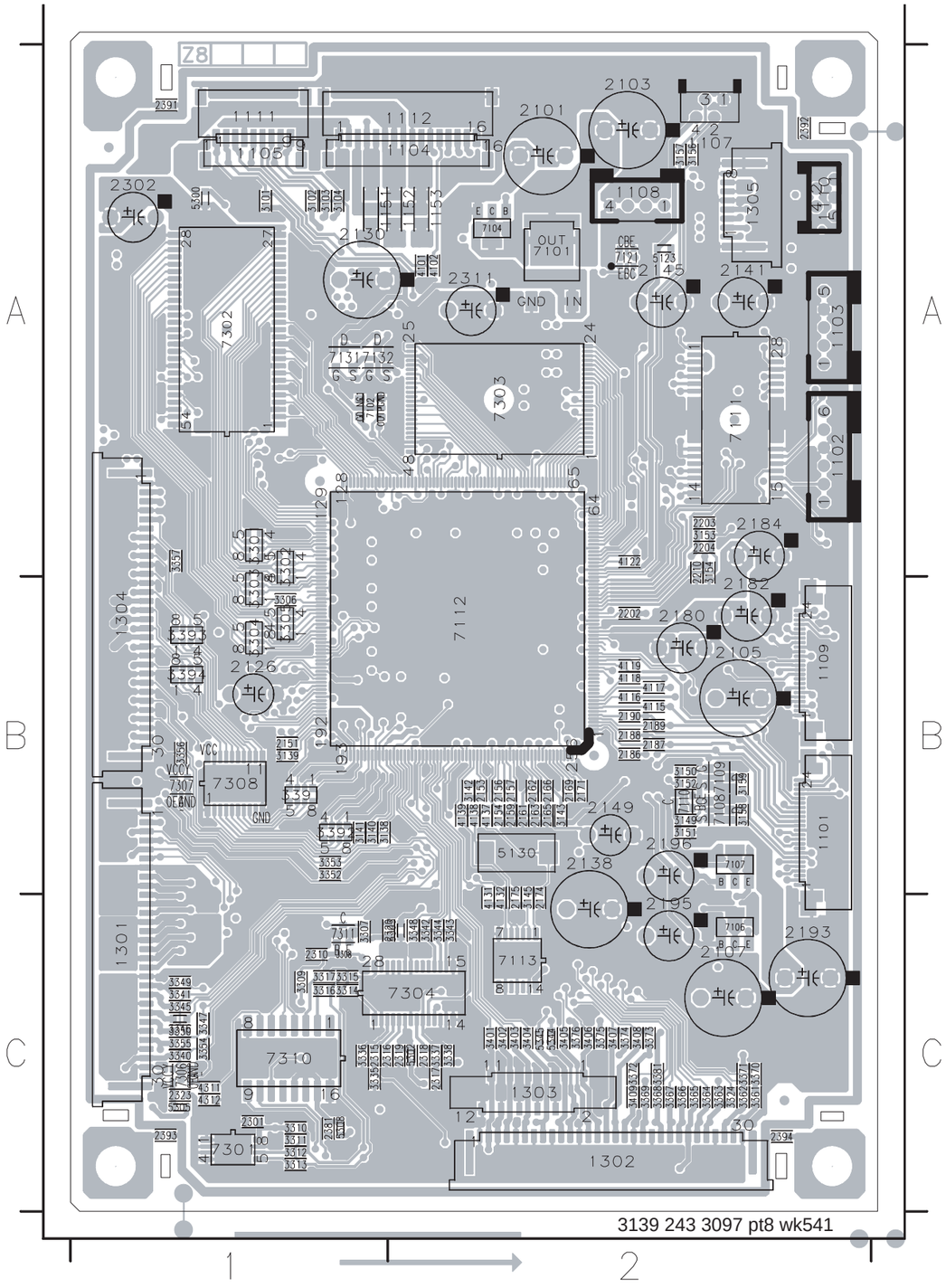
WIRING DIAGRAM

Model:SW5500C Powerbox serial



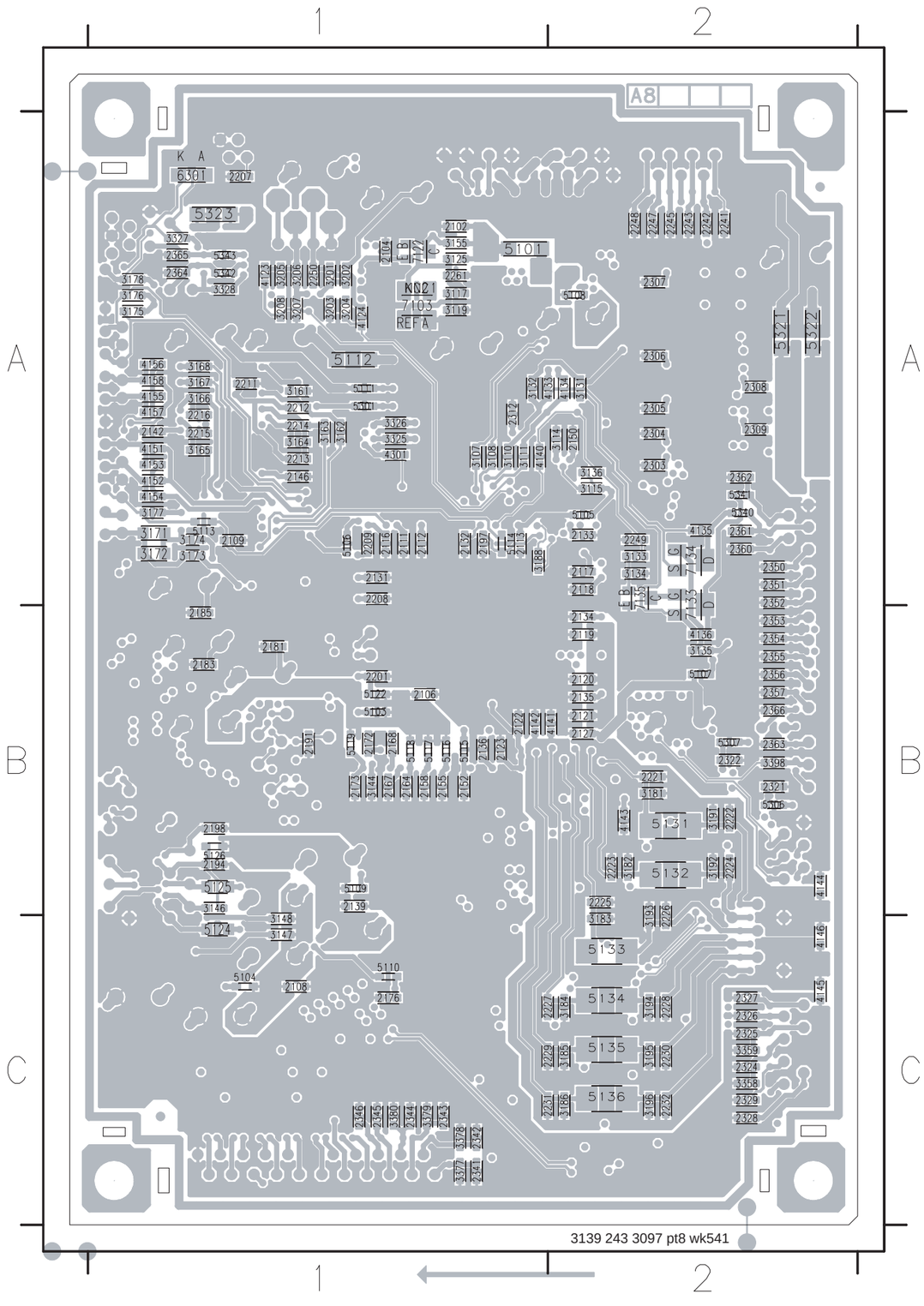
9. Module SD6.3 CH HT

SD6.3 CH HT Board - Top View Layout



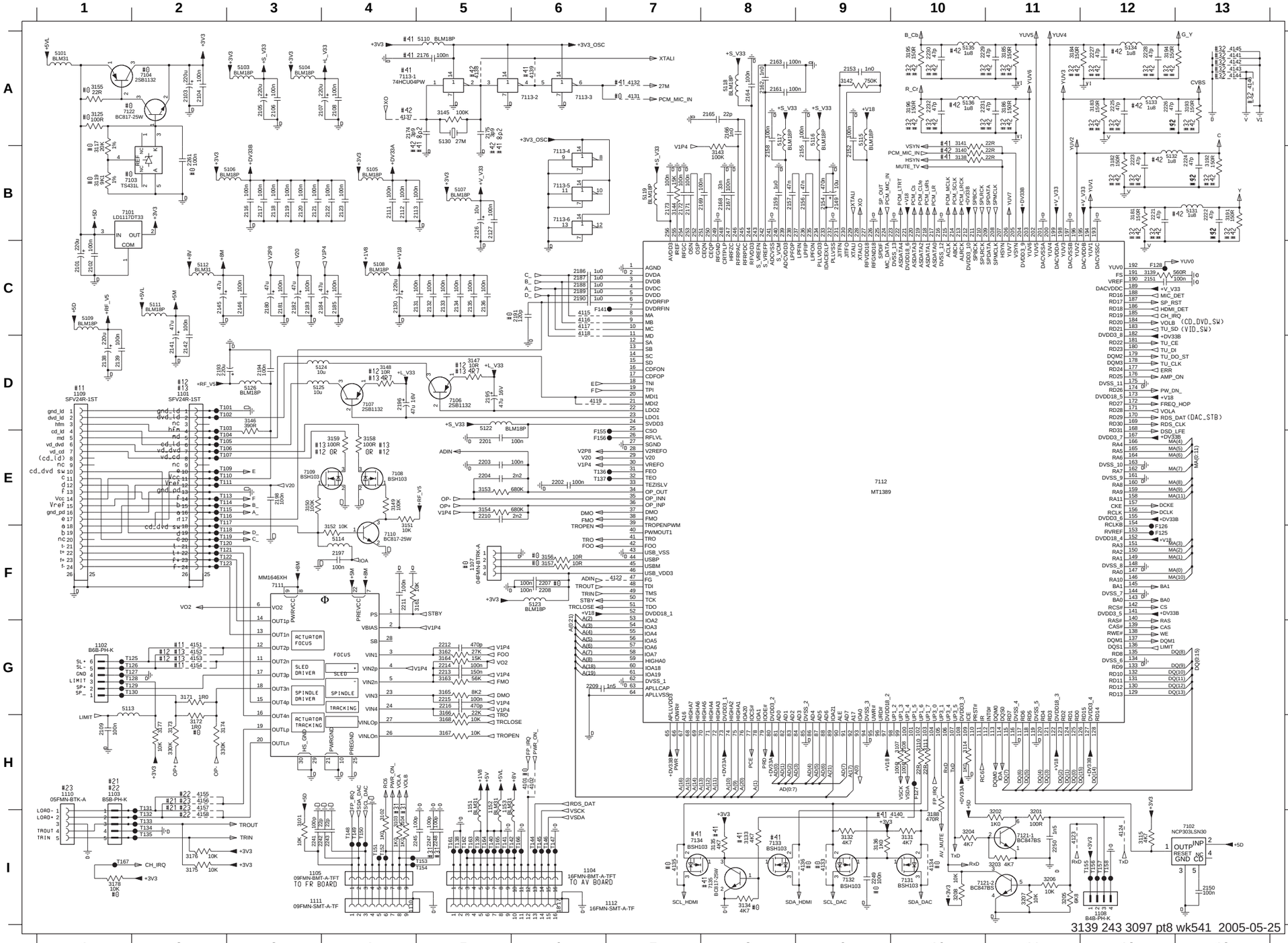
1103	A2	2383	C1	3362	C2	7301	C1				
1104	A2	2381	C1	3363	C2	7302	A1				
1105	A1	2391	A1	3364	C2	7303	A2				
1107	A2	2392	A2	3365	C2	7304	C2				
1108	A2	2393	C1	3366	C2	7306	C1				
1109	B2	2394	C2	3367	C2	7307	B1				
1110	A2	3101	A1	3368	C2	7308	B1				
1111	A1	3102	A1	3369	C2	7310	C1				
1112	A2	3103	A1	3370	C2	7311	C1				
1151	A1	3104	A1	3371	C2						
1152	A2	3138	B1	3372	C2						
1153	A2	3139	B1	3373	C2						
1301	C1	3140	B1	3374	C2						
1302	C2	3141	B1	3375	C2						
1303	C2	3142	B2	3376	C2						
1304	B1	3143	B2	3381	C2						
1305	A2	3145	C2	3391	B1						
2101	A2	3149	B2	3392	B1						
2103	A2	3150	B2	3393	B1						
2105	B2	3151	B2	3394	B1						
2107	C2	3152	B2	3401	C2						
2126	B1	3153	A2	3402	C2						
2130	A1	3154	A2	3403	C2						
2138	B2	3156	A2	3404	C2						
2141	A2	3157	A2	3405	C2						
2145	A2	3158	B2	3406	C2						
2149	B2	3159	B2	3407	C2						
2151	B1	3301	A1	3408	C2						
2153	B2	3302	A1	3409	C2						
2154	B2	3303	B1	4101	A2						
2156	B2	3304	B1	4102	A2						
2157	B2	3305	B1	4115	B2						
2159	B2	3306	B1	4116	B2						
2161	B2	3307	C1	4117	B2						
2162	B2	3308	C1	4118	B2						
2163	B2	3309	C1	4119	B2						
2165	B2	3310	C1	4122	A2						
2166	B2	3311	C1	4131	C2						
2169	B2	3312	C1	4132	C2						
2171	B2	3313	C1	4137	B2						
2174	C2	3314	C1	4138	B2						
2175	C2	3315	C1	4139	B2						
2180	B2	3316	C1	4311	C1						
2182	B2	3317	C1	4312	C1						
2184	A2	3324	C2	5123	A2						
2186	B2	3335	C1	5130	B2						
2187	B2	3336	C1	5300	A1						
2188	B2	3337	C2	5302	C2						
2189	B2	3338	C2	5303	C2						
2190	B2	3340	C1	5305	C1						
2193	C2	3341	C1	5308	C1						
2195	C2	3342	C2	5344	C2						
2196	B2	3343	C2	5345	C2						
2202	B2	3344	C2	7101	A2						
2203	A2	3345	C1	7102	A1						
2204	A2	3346	C1	7104	A2						
2210	A2	3347	C1	7106	C2						
2301	C1	3348	C2	7107	B2						
2302	A1	3349	C1	7108	B2						
2310	C1	3350	C1	7109	B2						
2311	A2	3352	B1	7110	B2						
2315	C1	3353	B1	7111	A2						
2316	C1	3354	C1	7112	B2						
2317	C2	3355	C1	7113	C2						
2318	C2	3356	B1	7121	A2						

SD6.3 CH HT Board - Bottom View Layout



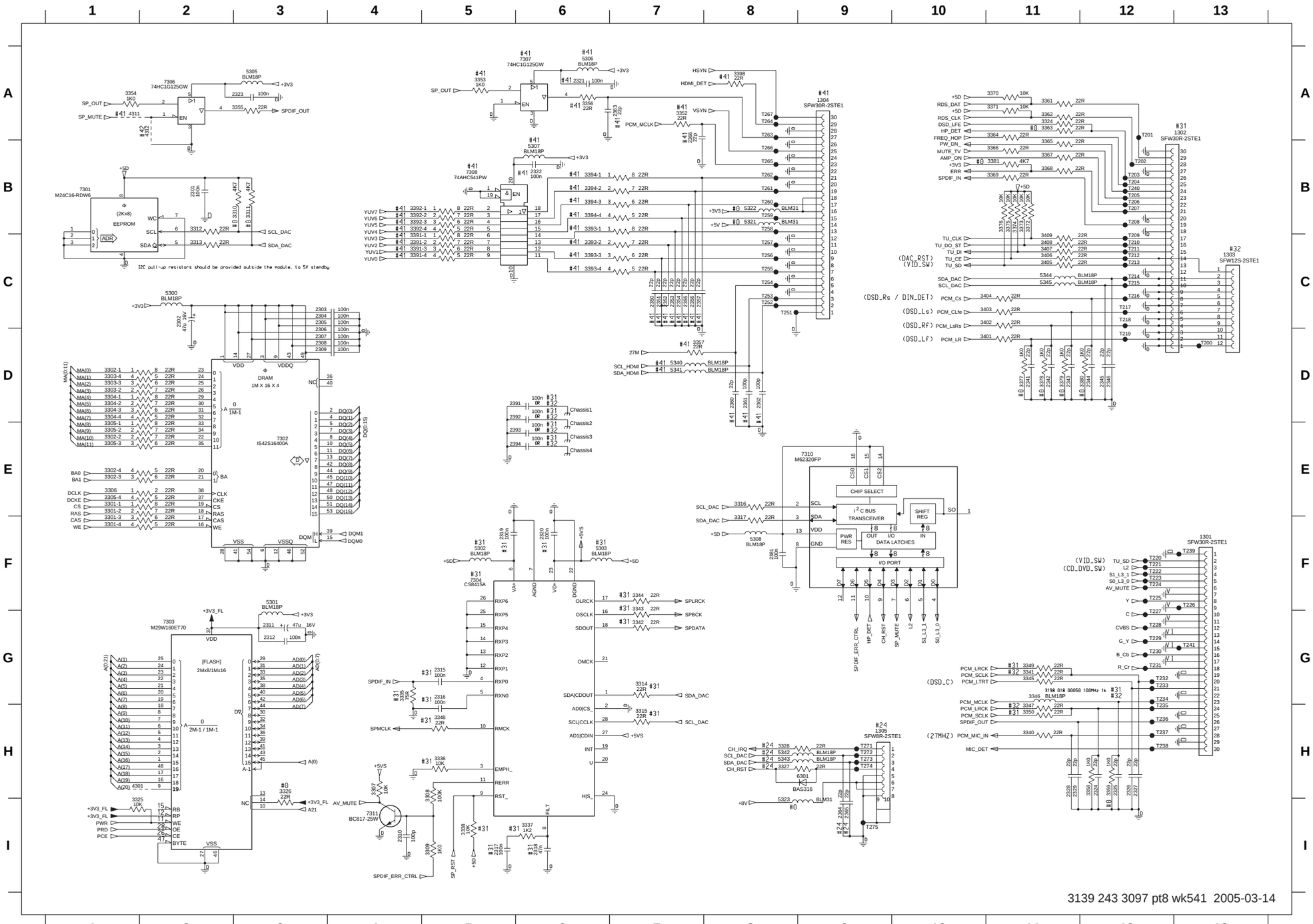
2102	A1	2243	A2	3164	A1	5101	A1
2104	A1	2245	A2	3165	A1	5103	B1
2106	B1	2247	A2	3166	A1	5104	C1
2108	C1	2248	A2	3167	A1	5105	A2
2109	A1	2249	A2	3168	A1	5106	A1
2111	A1	2250	A1	3171	A1	5107	B2
2112	A1	2261	A1	3172	A1	5108	A2
2113	A1	2303	A2	3173	A1	5109	B1
2116	A1	2304	A2	3174	A1	5110	C1
2117	A2	2305	A2	3175	A1	5111	A1
2118	A2	2306	A2	3176	A1	5112	A1
2119	B2	2307	A2	3177	A1	5113	A1
2120	B2	2308	A2	3178	A1	5114	A1
2121	B2	2309	A2	3181	B2	5115	B1
2122	B1	2312	A1	3182	B2	5116	B1
2123	B1	2321	B2	3183	C2	5117	B1
2127	B2	2322	B2	3184	C2	5118	B1
2131	A1	2324	C2	3185	C2	5119	B1
2132	A1	2325	C2	3186	C2	5122	B1
2133	A2	2326	C2	3188	A1	5124	C1
2134	B2	2327	C2	3191	B2	5125	B1
2135	B2	2328	C2	3192	B2	5126	B1
2136	B1	2329	C2	3193	C2	5131	B2
2139	B1	2341	C1	3194	C2	5132	B2
2142	A1	2342	C1	3195	C2	5133	C2
2146	A1	2343	C1	3196	C2	5134	C2
2150	A2	2344	C1	3201	A1	5135	C2
2152	B1	2345	C1	3202	A1	5136	C2
2155	B1	2346	C1	3203	A1	5301	A1
2158	B1	2350	A2	3204	A1	5306	B2
2164	B1	2351	A2	3205	A1	5307	B2
2167	B1	2352	A2	3206	A1	5321	A2
2168	B1	2353	B2	3207	A1	5322	A2
2172	B1	2354	B2	3208	A1	5323	A1
2173	B1	2355	B2	3325	A1	5340	A2
2176	C1	2356	B2	3326	A1	5341	A2
2181	B1	2357	B2	3327	A1	5342	A1
2183	B1	2360	A2	3328	A1	5343	A1
2185	B1	2361	A2	3358	C2	6301	A1
2191	B1	2362	A2	3359	C2	7103	A1
2194	B1	2363	B2	3377	C1	7122	A1
2197	A1	2364	A1	3378	C1	7133	A2
2198	B1	2365	A1	3379	C1	7134	A2
2201	B1	2366	B2	3380	C1	7135	A2
2207	A1	3107	A1	3398	B2		
2208	A1	3108	A1	4123	A1		
2209	A1	3110	A1	4124	A1		
2211	A1	3111	A1	4133	A2		
2212	A1	3114	A2	4134	A2		
2213	A1	3115	A2	4135	A2		
2214	A1	3117	A1	4136	B2		
2215	A1	3119	A1	4140	A1		
2216	A1	3125	A1	4141	B2		
2221	B2	3131	A2	4142	B1		
2222	B2	3132	A1	4143	B2		
2223	B2	3133	A2	4144	B2		
2224	B2	3134	A2	4145	C2		
2225	B2	3135	B2	4146	C2		
2226	C2	3136	A2	4151	A1		
2227	C1	3144	B1	4152	A1		
2228	C2	3146	B1	4153	A1		
2229	C1	3147	C1	4154	A1		
2230	C2	3148	C1	4155	A1		
2231	C1	3155	A1	4156	A1		
2232	C2	3161	A1	4157	A1		
2241	A2	3162	A1	4158	A1		
2242	A2	3163	A1	4301	A1		

SD6.3 CH HT Board - Circuit Diagram (Part1)



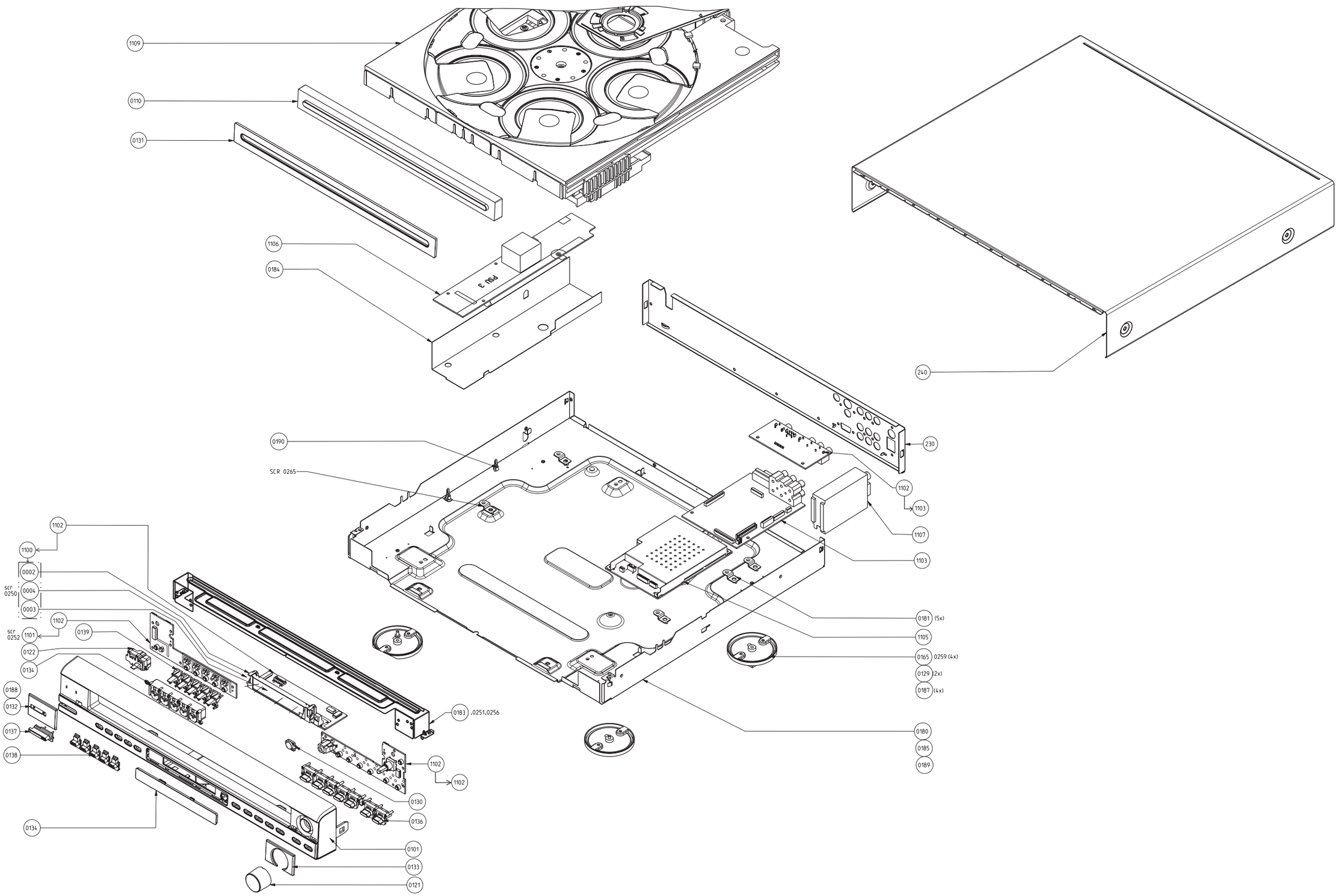
#0 PROVISION
#11 DV33
#12 DV34
#13 KHM310
#21 WXD-8136
#22 WXD-8229
#23 DLM-1D
#24 5CDC
#31 RECEIVERS
#32 PLAYERS
#41 DIGITAL VIDEO
#42 ANALOG VIDEO

SD6.3 CH HT Board - Circuit Diagram (Part2)



#0 PROVISION
#11 DV33
#12 DV34
#13 KHM310
#21 WXD-8136
#22 WXD-8229
#23 DLM-1D
#24 5CDC
#31 RECEIVERS
#32 PLAYERS
#41 DIGITAL VIDEO
#42 ANALOG VIDEO

10. Set Mechanical Exploded View



Notes:

MECHANICAL & ACCESSORIES PART LIST
MISCELLANEOUS

0110	3139 244 08321		TRAY COVER HTS5500/55
0121	3139 254 01861		KNOB-VOLUME-HTS5500
0122	3139 254 01771		BUTTON-POWER-HTS5500
0131	3139 254 01831		PANEL-FRONT-HTS5500
0132	3139 254 01821		PANEL-LEFT-HTS5500
0133	3139 254 01811		PANEL-RIGHT-HTS5500
0134	3139 254 01801		BUTTON-FIVE-DISC-HTS5500
0135	3139 254 01791		WINDOW-DISPLAY-HTS5500
0136	3139 254 01781		BUTTON-CTRL-CHGE-EJ-HTS5500
0137	3139 254 01761		CAP- FOR- BUTTON-POWER-HTS5500
0138	3139 254 01751		CAP-BTN-FIVE-DISC-HTS5500
0139	3139 254 01741		LIGHT-GUIDE-FIVE-DISC-HTS5500
0165	3139 244 03951		FOOT 7-5 YDV-S640
0180	3139 241 22051		FRAME DVD-C750
0181	3139 241 22011		BRACKET PSU DVD C750
0184	3139 243 20091		PSU PROTECTION SHEET
0187	3139 243 10181		CUSHION-FELT
0325	3139 247 11751		BOX SPK ASSY CS HTS5510C/75/98
0326	3139 247 11731		BOX SPK ASSY SW HTS5510/98
0326	3139 247 11721		BOX SPK ASSY SW HTS5510/75
0332	2422 549 45386		ANT AM LOOP LAN-011 B
0333	3139 258 70091		REMOTE CONTROL HTS5500
0336	4822 321 11499	⚠	MAINSCORD 2.0M - EU (/98)
0336	2422 070 98233	⚠	MAINSCORD AUS 7A5 1M8 VH BK B (/75)
0338	4822 321 61579		VIDEO-CABLE
0341	3103 308 92610		CABLE AUDIO 2X2RCA MALE 1.5MTR
0343	2422 076 00654		CBLE HD-SUB15P 3M HD-SUB 15P B

SPEAKER ASSY CS-5510C
TALLBOY SPEAKER BOXES
MISCELLANEOUS

	9965 000 32680	TALLBOY SPK BOX M-L
	9965 000 32681	TALLBOY SPK BOX M-R
	9965 000 32697	TALLBOY SPK BOX S-L
	9965 000 32698	TALLBOY SPK BOX S-R
	9965 000 30392	CABLE ASSY - 6080MM WHITE
	9965 000 30393	CABLE ASSY - 6080MM RED
	9965 000 30394	CABLE ASSY - 16080MM BLUE
	9965 000 30395	CABLE ASSY - 16080MM GREY
	9965 000 30397	RUBBER FOOT (L/R SPK)
	9965 000 32699	SPEAKER BOX CENTER
	9965 000 28371	RUBBER FOOT 40.5LX6.0WX1.5T
	9965 000 28367	CABLE A'SSY 5.2M GREEN SMK S

SPK SPK SW-HTS5510C/98/75
ACTIVE SUBWOOFER (PSS)
MISCELLANEOUS

	3141 137 40131	TRANSFORMER ASSY
	3141 137 40071	PCB ASSY - AMPLIFER
	3141 137 40141	PCB ASSY - INTERFACE
	3141 137 40101	PCB ASSY - AMPLIFER SUB
	3141 137 40151	PCB ASSY - POWER ASSY
	3141 137 60441	⚠ AC CORD AP (/98)
	3141 137 60281	⚠ AC CORD AUSTRALIA (/75)
	3141 137 60331	WIRE ASSY

ELECTRICAL PARTS LIST
MISCELLANEOUS

1102	3139 248 84301	PCBAS FRONT PANEL HTS5500/37
1103	3139 118 58661	PCBAS AV PANEL HTS5500
1105	3139 248 84731	PCBAS SD6.3 CH HT
1106	3139 117 11111	MODULESMPS 04-20
1107	2422 542 00022	TUN A F ENG06703QF USA B
1109	3139 248 71992	MOD SD5.5

ELECTRICAL PARTS LIST- PCBAS FRONT IO HTS5500
MISCELLANEOUS

1200	2422 025 17501	CON BM H 15P F 1.00 FFC SMT R
1202	4822 276 13775	SWITCH
1203	4822 276 13775	SWITCH
1204	4822 276 13775	SWITCH
1205	4822 276 13775	SWITCH
1206	4822 276 13775	SWITCH
1208	4822 276 13775	SWITCH
5200	3198 018 31590	FXDIND SM 0805 15U PM20 COL R

DIODES

6200	4822 130 11416	PDZ6.8B
6201	4822 130 11416	PDZ6.8B
6202	9322 184 08676	LED VS LTL-816YE (LITO) A
6203	9322 184 08676	LED VS LTL-816YE (LITO) A
6204	9322 184 08676	LED VS LTL-816YE (LITO) A
6205	9322 184 08676	LED VS LTL-816YE (LITO) A
6206	9322 184 08676	LED VS LTL-816YE (LITO) A
6207	9322 183 96676	LED VS LTL-816GE (LITO) A
6208	9322 183 96676	LED VS LTL-816GE (LITO) A
6209	9322 183 96676	LED VS LTL-816GE (LITO) A
6210	9322 183 96676	LED VS LTL-816GE (LITO) A
6211	9322 183 96676	LED VS LTL-816GE (LITO) A
6212	9322 179 76676	LED VS LTL-816EELC (LITO) A

TRANSISTORS & INTREGATED CIRCUITS

7200	3198 010 42320	BC857BW
7201	3198 010 42320	BC857BW
7202	3198 010 42320	BC857BW
7203	3198 010 42320	BC857BW
7204	3198 010 42320	BC857BW

ELECTRICAL PARTS LIST- PCBAS FRONT KEY HTS5500
MISCELLANEOUS

1100	2422 025 17033	CON H 8P F 1.00 SM FFC 0.3 R
1101	2422 025 16806	CON BM H 7P F 1.00 FFC SMT R
1102	2422 129 16975	ROT ENCODER 12P EVEMC2F2512B B
1104	4822 276 13775	SWITCH
1105	4822 276 13775	SWITCH
1106	4822 276 13775	SWITCH
1107	4822 276 13775	SWITCH
1110	4822 276 13775	SWITCH
1113	4822 276 13775	SWITCH
1114	4822 276 13775	SWITCH

DIODES

6100	4822 130 11416	PDZ6.8B
6101	4822 130 11416	PDZ6.8B
6102	4822 130 11416	PDZ6.8B
6103	4822 130 11416	PDZ6.8B

ELECTRICAL PARTS LIST - PCBAS FRONT DISP HTS5500/37
MISCELLANEOUS

1301	2422 025 17201	CON H 9P F 1.00 SM FFC 0.3 R
1302	2422 025 17033	CON H 8P F 1.00 SM FFC 0.3 R
1303	2422 025 17501	CON BM H 15P F 1.00 FFC SMT R
5300	3198 018 52280	FXDIND SM 0603 2U2 PM10 COL R

DIODES

6301	4822 130 10837	UDZS8.2B
6302	3198 020 55680	DIO REG SM BZX384-C5V6 COL R
6304	4822 130 11397	BAS316
6305	4822 130 11397	BAS316
6306	4822 130 11397	BAS316
6307	4822 130 11397	BAS316

TRANSISTORS & INTREGATED CIRCUITS

7300	9322 205 06671	IC SM TMP87PM74ZF (TOSJ) Y
7301	2722 171 00201	VFD 12-ST-50GNK 100*16 (FTBD)B
7302	9322 202 67667	IR RECEIVER TSOP34836UH1(VISH)
7303	4822 130 40981	BC337-25
7304	4822 130 41246	BC327-25
7305	3198 010 42310	BC847BW
7306	3198 010 42310	BC847BW
7308	3198 010 42310	BC847BW
7309	3198 010 42310	BC847BW
7310	3198 010 42320	BC857BW
7311	3198 010 42310	BC847BW
7312	3198 010 42320	BC857BW

ELECTRICAL PARTS LIST- PCBAS VIDEO CONN HTS5500
MISCELLANEOUS

1400	2422 025 17154	CON BM V 20P F 1.00 FFC 0.3 B
1401	2422 026 05419	SOC CINCH H 1P F 1L1 BK B
1402	2422 033 00468	SOC COMBI H 2P F CINCH/MDIN Y
1403	2422 026 05589	SOC CINCH H 3P F 1L3 RDBUGN Y

DIODES

6400	4822 130 11522	UDZ15B
6401	4822 130 11522	UDZ15B
6402	4822 130 11522	UDZ15B
6406	4822 130 11522	UDZ15B
6407	4822 130 11522	UDZ15B
6408	4822 130 11522	UDZ15B
6409	4822 130 11522	UDZ15B

ELECTRICAL PARTS LIST- PCBAS AV HTS5500
MISCELLANEOUS

1100	2422 025 17154		CON BM V 20P F 1.00 FFC 0.3 B
1101	2422 025 18364		CON V 16P F 1.00 FFC 0.3 Y
1102	2422 025 17509		CON BM V 30P F 1.00 FFC 0.3 B
1201	2422 025 17509		CON BM V 30P F 1.00 FFC 0.3 B
1300	2422 025 18766		SOC SUBD H 15P F BU 1216 Y
1402	2422 086 11092	⚠	FUSE SM F 500MA 50V UL R
1403	2422 086 11103		FUSE SM F 2A 125V UL R
1404	2422 025 09405		CON BM V 2P M 2.00 PH B
1405	2422 086 11103		FUSE SM F 2A 125V UL R
1503	4822 267 11039		11P. FEM.
1504	4822 267 31449		SOC CINCH H 6P F WHRD B
1601	2422 025 16806		CON BM H 7P F 1.00 FFC SMT R

RESISTORS

3272	2422 549 43062		IND FXD SM EMI 100MHZ 600R R
3493	4822 117 11151	⚠	1R 5%
3494	4822 117 11151	⚠	1R 5%
5206	2422 549 43062		IND FXD SM EMI 100MHZ 600R R
5207	2422 549 43062		IND FXD SM EMI 100MHZ 600R R
5208	2422 549 43062		IND FXD SM EMI 100MHZ 600R R
5209	2422 549 43062		IND FXD SM EMI 100MHZ 600R R
5210	2422 549 43062		IND FXD SM EMI 100MHZ 600R R
5211	2422 549 43062		IND FXD SM EMI 100MHZ 600R R
5401	4822 157 11717		BLM31P500SPT
5402	4822 157 11499		BLM11P600SPT
5403	4822 157 11717		BLM31P500SPT
5404	2422 535 94092		IND FXD SM 0805 33U PM10 R
5405	2422 535 94092		IND FXD SM 0805 33U PM10 R

DIODES

6205	3198 020 55680	DIO REG SM BZX384-C5V6 COL R
6206	4822 130 11397	BAS316
6208	4822 130 11564	UDZ3.9B
6210	4822 130 11397	BAS316
6300	4822 130 11397	BAS316
6301	4822 130 11397	BAS316
6302	4822 130 11397	BAS316
6303	4822 130 11397	BAS316
6304	4822 130 11397	BAS316
6306	4822 130 11397	BAS316
6307	4822 130 11397	BAS316
6308	4822 130 11397	BAS316
6309	4822 130 11397	BAS316
6310	4822 130 11397	BAS316
6311	4822 130 11397	BAS316
6501	4822 130 11551	PDZ10B
6502	4822 130 11397	BAS316
6503	4822 130 11397	BAS316

TRANSISTORS & INTREGATED CIRCUITS

7101	4822 130 42804	BC817-25
7105	9322 177 91685	IC SM TC7WHU04FU (TOSJ) R
7200	9322 203 36668	IC SM CS42418-CQ (CILO) R
7201	9322 119 42685	IC SM MC78FC33H (MOTA) R
7203	4822 130 40959	BC547B
7205	4822 130 40959	BC547B
7300	4822 209 31378	NJM4556MB
7301	4822 209 30095	LM833D
7302	4822 209 30095	LM833D
7310	4822 130 42804	BC817-25
7311	4822 130 42804	BC817-25
7312	4822 130 42804	BC817-25
7313	4822 130 42804	BC817-25
7314	4822 130 60373	BC856B
7315	4822 130 42804	BC817-25
7316	4822 130 42804	BC817-25
7317	4822 130 42804	BC817-25
7318	4822 130 42804	BC817-25
7319	4822 130 60373	BC856B
7320	4822 130 60373	BC856B
7321	4822 130 11397	BAS316
7322	4822 130 42804	BC817-25
7323	4822 130 42804	BC817-25
7324	4822 130 42804	BC817-25
7401	5322 130 62804	BCP53
7402	5322 130 60159	BC846B
7403	4822 209 17398	LD1117DT33
7404	9322 146 75685	IC SM TS431L (ST00) R
7405	9322 199 24668	IC SM L7808CD2T (ST00) R
7501	5322 130 44647	BC368
7504	5322 130 60159	BC846B
7505	4822 130 60373	BC856B
7506	5322 130 60159	BC846B
7507	4822 209 30095	LM833D
7508	5322 209 11102	HEF4052BT

ELECTRICAL PARTS LIST - PCBAS SD6.3 CH HT
MISCELLANEOUS

1101	2422 025 17529	CON BM H 24P F 0.50 FFC 0.3 R
1104	2422 025 16388	CON BM V 16P F 1.00 FFC 0.3 R
1105	2422 025 17768	CON V 9P F 1.00 SM FFC 0.3 R
1301	2422 025 17451	CON BM H 30P F 1.00 FFC 0.3 R
1302	2422 025 17451	CON BM H 30P F 1.00 FFC 0.3 R
1305	2422 025 16968	CON BM H 8P F 1.00 FFC 0.3 R

RESISTORS

3301	2350 035 10229	RST NETW SM ARV24 4X22R PM5 R
3302	2350 035 10229	RST NETW SM ARV24 4X22R PM5 R
3303	2350 035 10229	RST NETW SM ARV24 4X22R PM5 R
3304	2350 035 10229	RST NETW SM ARV24 4X22R PM5 R
3305	2350 035 10229	RST NETW SM ARV24 4X22R PM5 R
3346	4822 157 11499	BLM11P600SPT
3365	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
3367	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5101	4822 157 11717	BLM31P500SPT
5103	4822 157 11499	BLM11P600SPT
5104	4822 157 11499	BLM11P600SPT
5105	4822 157 11499	BLM11P600SPT

RESISTORS

5106	4822 157 11499	BLM11P600SPT
5107	4822 157 11499	BLM11P600SPT
5108	4822 157 11499	BLM11P600SPT
5109	4822 157 11499	BLM11P600SPT
5111	4822 157 11499	BLM11P600SPT
5112	4822 157 11717	BLM31P500SPT
5113	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5114	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5115	4822 157 11499	BLM11P600SPT
5116	4822 157 11499	BLM11P600SPT
5117	4822 157 11499	BLM11P600SPT
5118	4822 157 11499	BLM11P600SPT
5119	4822 157 11499	BLM11P600SPT
5122	4822 157 11499	BLM11P600SPT
5123	4822 157 11499	BLM11P600SPT
5124	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5125	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5126	4822 157 11499	BLM11P600SPT
5130	2422 543 01393	RES XTL SM 27MHZ 10P CX8045 R
5131	3198 018 41880	FXDIND SM 1210 1U8 PM5 COL R
5132	3198 018 41880	FXDIND SM 1210 1U8 PM5 COL R
5133	3198 018 41880	FXDIND SM 1210 1U8 PM5 COL R
5134	3198 018 41880	FXDIND SM 1210 1U8 PM5 COL R
5135	3198 018 41880	FXDIND SM 1210 1U8 PM5 COL R
5136	3198 018 41880	FXDIND SM 1210 1U8 PM5 COL R
5300	4822 157 11499	BLM11P600SPT
5301	4822 157 11499	BLM11P600SPT
5302	4822 157 11499	BLM11P600SPT
5303	4822 157 11499	BLM11P600SPT
5305	4822 157 11499	BLM11P600SPT
5308	4822 157 11499	BLM11P600SPT
5342	4822 157 11499	BLM11P600SPT
5343	4822 157 11499	BLM11P600SPT
5344	4822 157 11499	BLM11P600SPT
5345	4822 157 11499	BLM11P600SPT

TRANSISTORS & INTREGATED CIRCUITS

7101	4822 209 17398	LD1117DT33
7102	9322 165 15685	IC SM NCP303LSN30 (ONSE) R
7106	4822 130 11565	2SB1132
7107	4822 130 11565	2SB1132
7108	9340 547 13215	FET SIG SM BSH103 (PHSE) R
7109	9340 547 13215	FET SIG SM BSH103 (PHSE) R
7110	9340 219 30115	BC817-25W
7111	9322 201 94668	IC SM MM1646XH (MITM) R
7112	9322 219 32671	IC SM MT1389EE/B-L (MEDI) Y
7121	9340 425 20115	TRA SIG SM BC847BS (PHSE) R
7131	9965 000 04199	BSN20
7132	9965 000 04199	BSN20
7301	9322 214 03668	IC SM M24C16-RDW6P (ST00) R
7302	9322 209 03668	IC SM IS42S16400B-7TL (ISSI) R
7304	9322 185 10668	IC SM CS8415A-CZ (CILO) R
7306	9352 687 20125	IC SM 74LVC1G125GW (PHSE) R
7309	3139 240 51231	FLASH EMBEDDED SW (HTS5500)
7310	4822 209 17345	M62320FP
7311	9340 219 30115	BC817-25W

ELECTRICAL PARTS LIST- SET WIRING FOR HTS5500
MISCELLANEOUS

8000	3139 241 01001	FFC FOIL 08P/180/08P AD 1MMP
8001	3139 241 00801	FFC FOIL 15P/220/15P BD 1MMP
8002	3139 111 04271	FFC FOIL 30P/060/30P BD 1MMP
8003	3139 241 00991	FFC FOIL 20P/060/20P BD 1MMP
8004	3139 111 02421	FFC FOIL 16P/220/16P AD 1MMP
8005	3139 111 04571	FFC FOIL 30P/280 BD 1MMP FOLD
8007	3139 241 00701	FFC FOIL 07P/480/07P BD 1MMP
8008	3139 241 00761	FFC FOIL 09P/400/09P AD 1MMP
8009	3103 308 93911	FFC FOIL 11P/100/11P AD