DVD Home Theater System

HTS8100/05/12/37/59

Service
Service
Service

Service Manual

CLASS 1
LASER PRODUCT

MP3-CD PLAYBACK

DVD VIDEO

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

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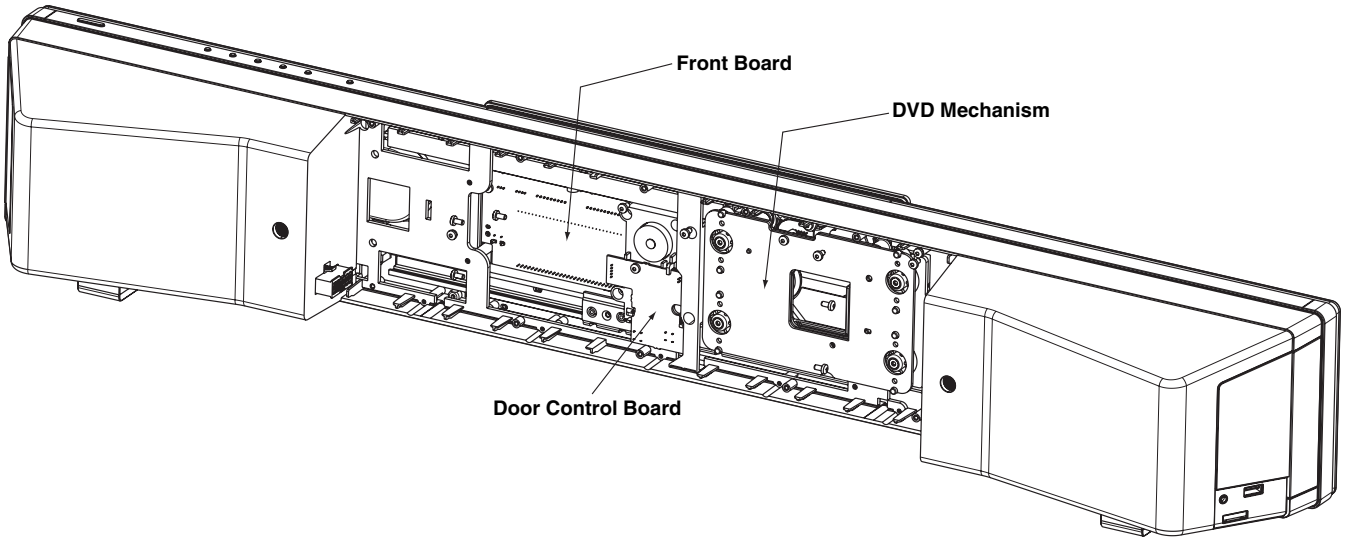
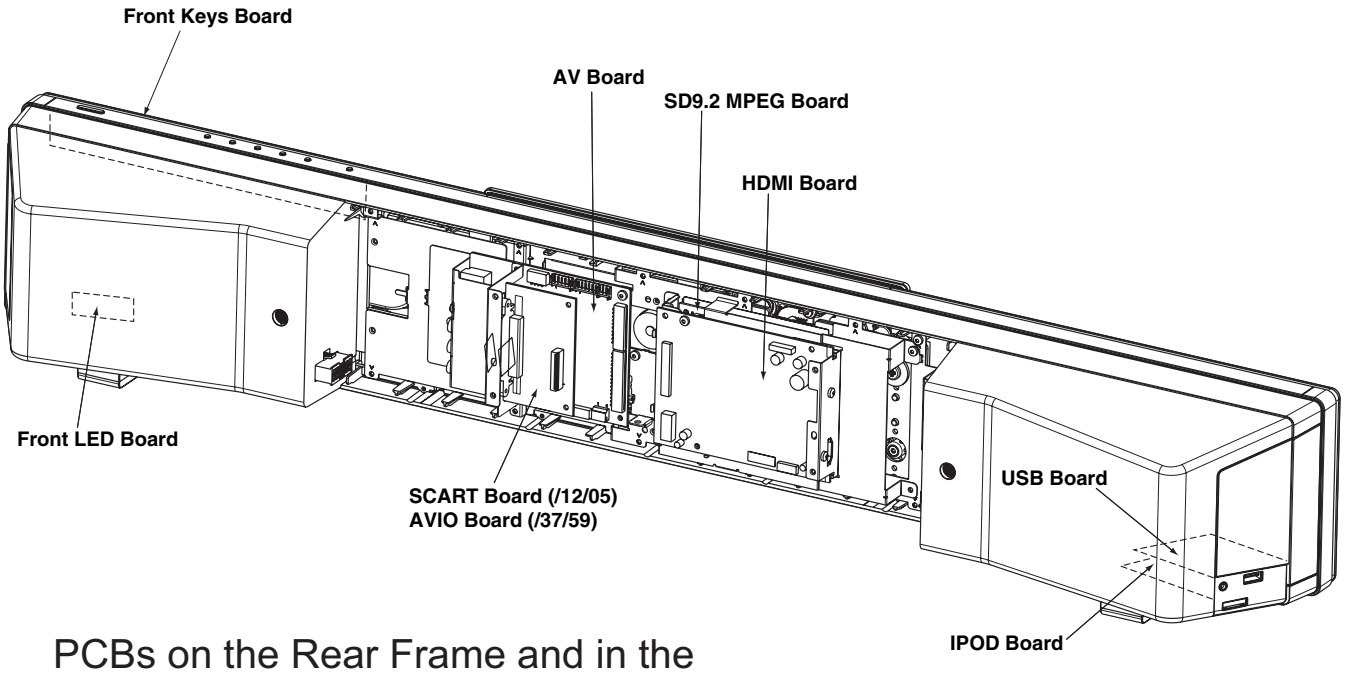
Version 1.0

PHILIPS

LOCATION OF PC BOARDS

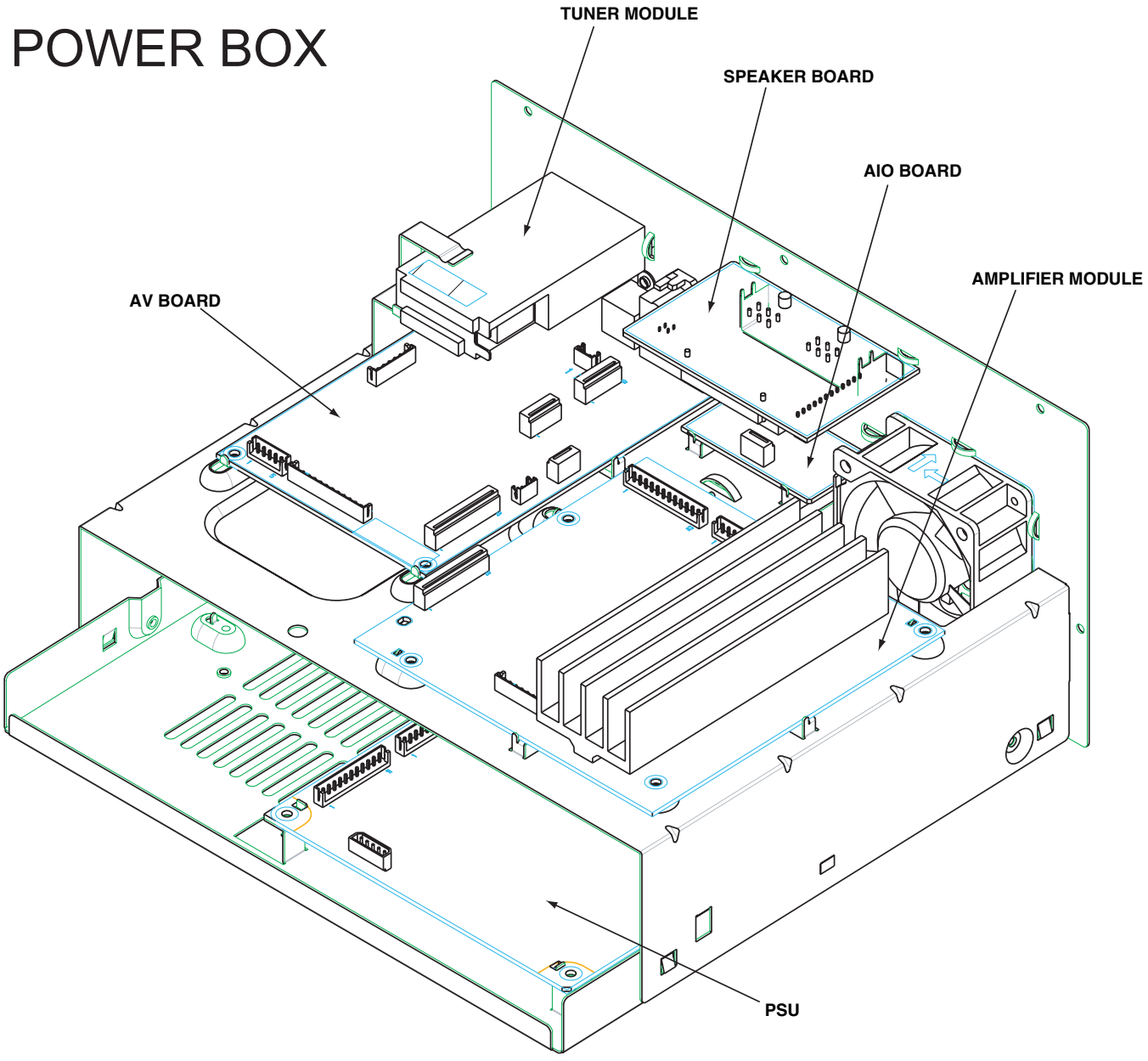


PCBs on the lower level



PCBs on the Rear Frame and in the speaker cabinet

POWER BOX



VERSION VARIATIONS:

	HTS8100/05/12	HTS8100/37	HTS8100/59
Video (Yellow, Cinch)	-	x	x
SCART (CVBS/RGB)	x	-	-
TV AUDIO IN (TV 2)	x	-	-
AUDIO IN (LEFT/RIGHT)	-	x	x
110-127V~220~240V VOLTAGE SELECTOR switch (Power Box)	-	-	x

1. Specifications

1.1 General:

Power Supply Rating	:	220-240V; 50-60 Hz (/05/12)
	:	120V; 60 Hz (/37)
	:	110-127V/220-240V ~50-60Hz switchable (/59)
Power consumption	:	120W
Low Standby Power:	:	< 0.6W
Dimension main unit	:	935 x 146 x 136(mm) (w x h x d)

1.2 Tuner

FM

Tuning range	:	87.5-108MHz
Grid	:	50kHz(/05/12 /59) 100kHz(/37)
IF frequency	:	10.7MHz ± 25kHz
Aerial input	:	75Ω coaxial
Sensitivity at 26dB S/N	:	< 7µV
Selectivity at 59/300kHz 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

1.3 AMPLIFIER:

L/R output power	:	1 x 70W min; 75W typical
Centre	:	1 x 95W min; 100W typical
Surround	:	1 x 70W min; 75W typical
Subwoofer	:	1 x 95W min; 100W typical
Frequency response ±3dB	:	150Hz-20kHz
Hum (Volume Minimum)	:	200nW
Residual noise (Volume Minimum)	:	40nW
Input sensitivity		
Aux In	:	1V ± 3dB at 39kΩ
Scart In (TV in):	:	500mV ± 3dB at 39kΩ
MP3 input sensitinity	:	250mV ± 3dB at 39kΩ

1.4 COMPACT DISC/VCD/DVD:

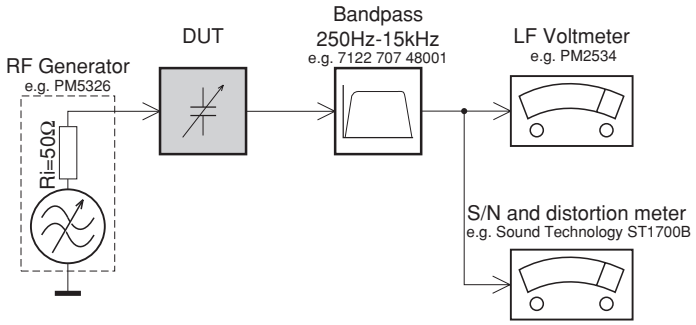
Video Decoding	:	MPEG-1/MPEG-2/ DivX 3/4/5/6, Ultra
Video DAC	:	12 Bits
Signal System	:	PAL / NTSC
Video Format	:	4:3 / 16:9
CVBS(SCART) Out [1)]		
CVBS level	:	1.0 ± 0.1V $_{p-p}$
Luminance S/N	:	>= 55dB
RGB/YUV Out [1)]		
Amplitude	:	0.7 ± 0.1V$_{p-p}$
S/N	:	>= 60dB

[1)] Output terminals to be terminated with 75Ω

2. Measurements Setup, Service Aid & Lead Free Requirements

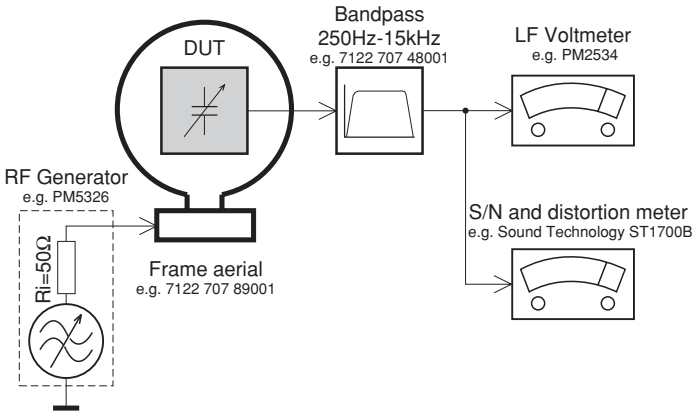
MEASUREMENT SETUP

Tuner FM



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

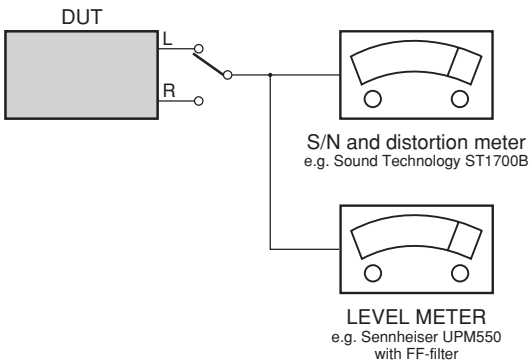
Tuner AM (MW,LW)



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).

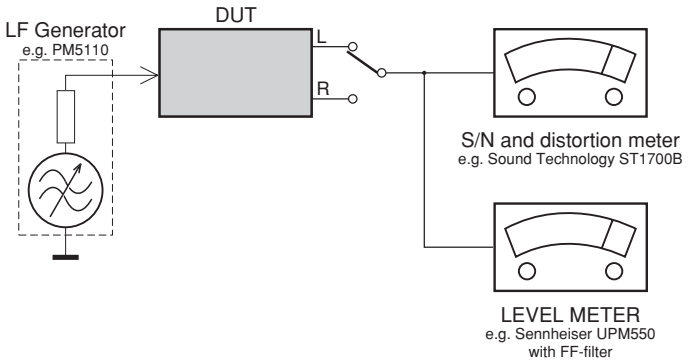
CD

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

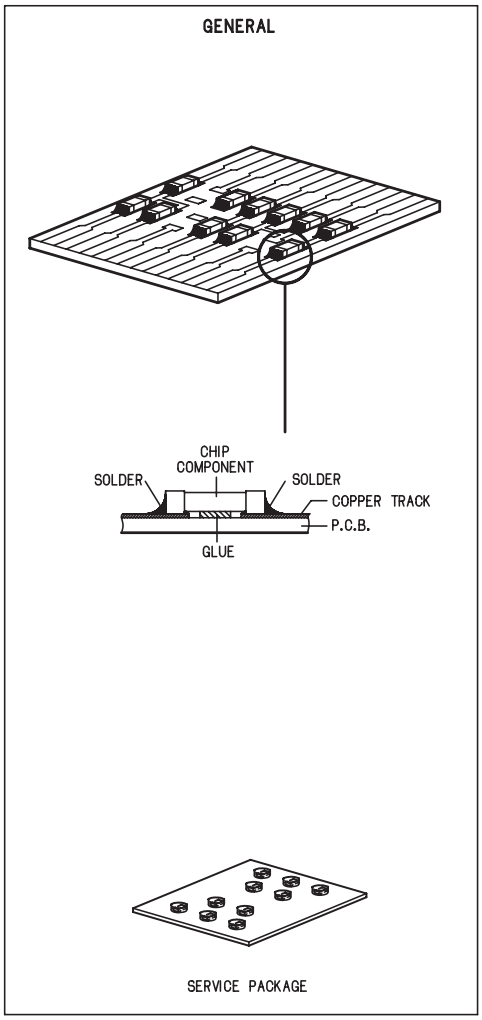
Service Tools:

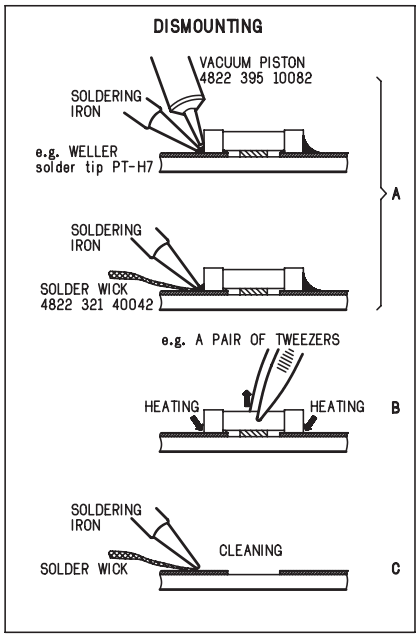
Universal Torx driver holder 4822 395 91019
Torx bit T10 150mm 4822 395 50456
Torx driver set T6 - T20 ..... 4822 395 50145
Torx driver T10 extended 4822 395 50423

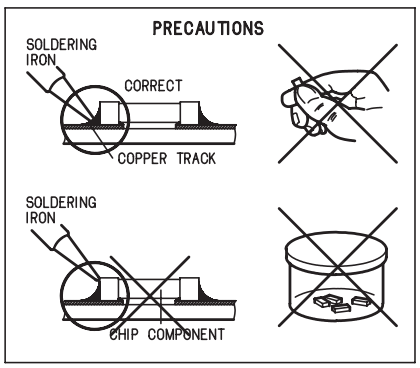
Compact Disc:

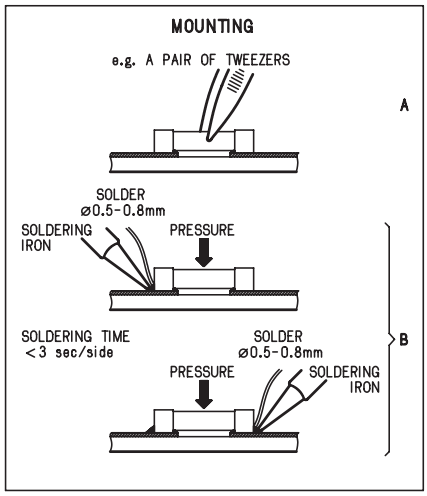
SBC426/426A Test disc 5 + 5A 4822 397 30096
SBC442 Audio Burn-in Test disc 1kHz 4822 397 30155
SBC429 Audio Signals disc 4822 397 30184
Dolby Pro-logic Test Disc 4822 395 10216

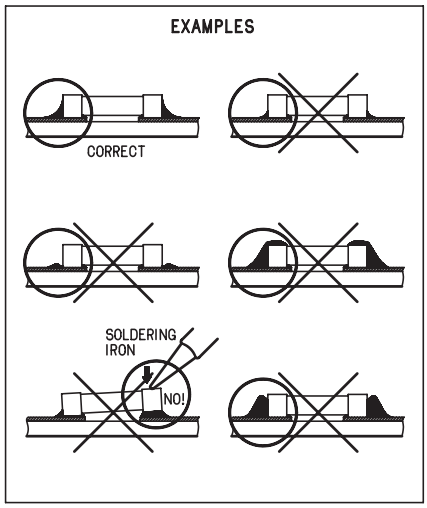
HANDLING CHIP COMPONENTS











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".

2.1 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.

2.2 Service Hints

2.2.1 Service Hints for Replacing Defective Loader

CAUTION

CHARGED CAPACITORS ON THE SERVO BOARD MAY DAMAGE THE DRIVE ELECTRONICS WHEN CONNECTING A NEW DRIVE.THAT'S WHY, BESIDES THE SAFETY MEASURES LIKE

- **SWITCH OFF POWER SUPPLY**
- **ESD PROTECTION**

ADDITIONAL ACTIONS MUST BE TAKEN BY THE REPAIR TECHNICIAN.

The following steps have to be done when replacing the defective loader :

1. Dismantling of the loader to access the ESD protection point if necessary.
2. **Solder the ESD protection point*.**
3. Disconnect flexfoil cable from the defective loader.
4. Put a paper clip on the flexfoil to short-circuit the contacts (fig.1)
5. Replace the defective loader with a new loader.
6. Remove paperclip from the flexfoil and connect it to the new loader.
7. Remove solder joint on the ESD protection point.

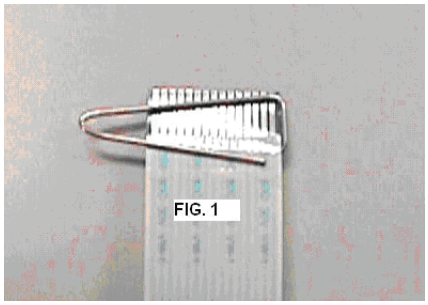
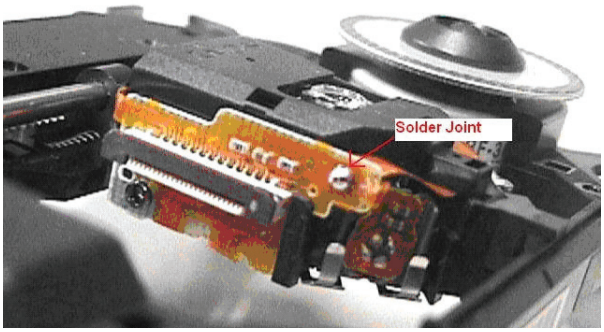


FIG. 1

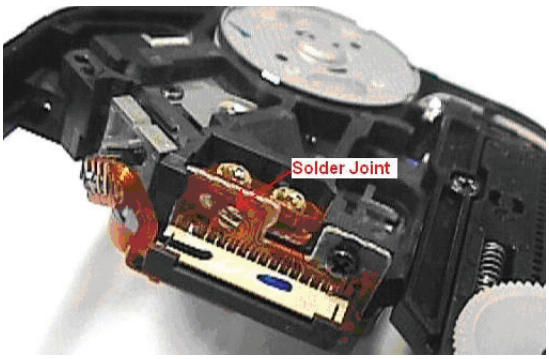
ATTENTION: The laser diode of this loader is protected against ESD by a solder joint which shortcircuits the laserdiode to ground. For proper functionality of the loader this solder joint must be remove **after** connection loader to the set.

Type 1



(ESD protection point is accessible from top of loader)

Type 2



(ESD protection point is accessible from bottom of the loader)

Only applicable for defective loader needed to be sent back to supplier for failure analysis and to support backcharging evidence.
This is also applicable for all partnership workshops.

2.2.2 Service Hints for Power Box Cable Dressing

The following procedures should be followed for Power Box Module assembly after being repaired.

1) For the 5 and 12 poles cables to Audio BD, paste a tape over them, ensuring it is firmly secured to the metal chassis.

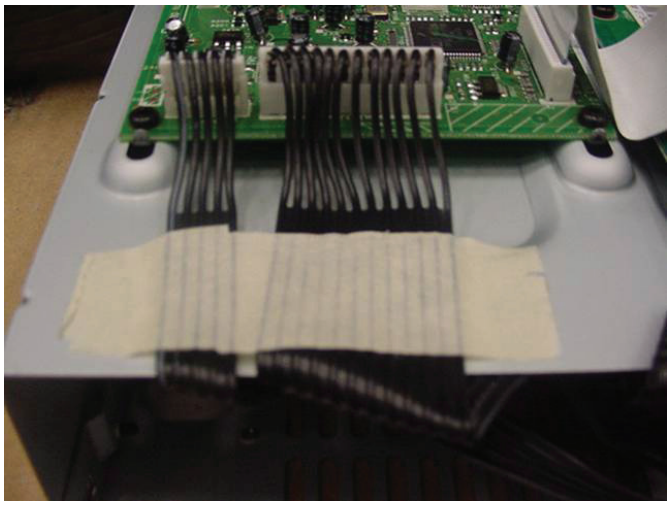


Figure 2-1

2) For the 8 pole cable between the PSU and TI amplifier, fold the cable as indicated, making it as close possible to metal chassis.

Figure 2-2

3) Fold as indicated underneath the metal chassis for both point 1) and 2). Note that the cables underneath should be laid as close possible to the metal chassis also.

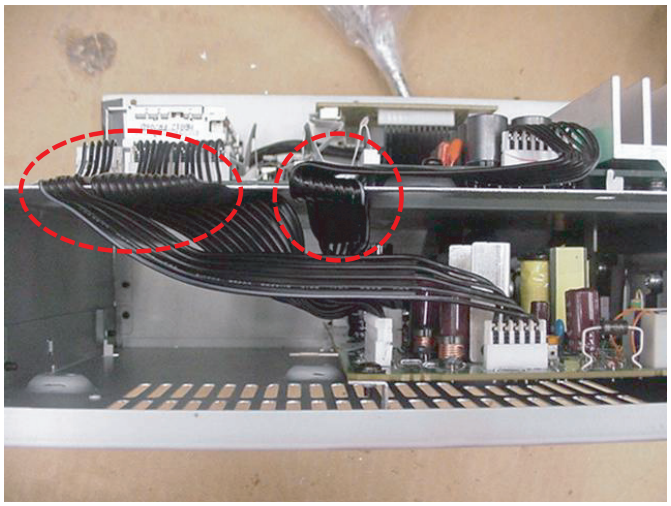


Figure 2-3

4) For the FFC cable between Audio BD and TI amplifier, fold as indicated, making it sure that the cable should be outside of both boards.

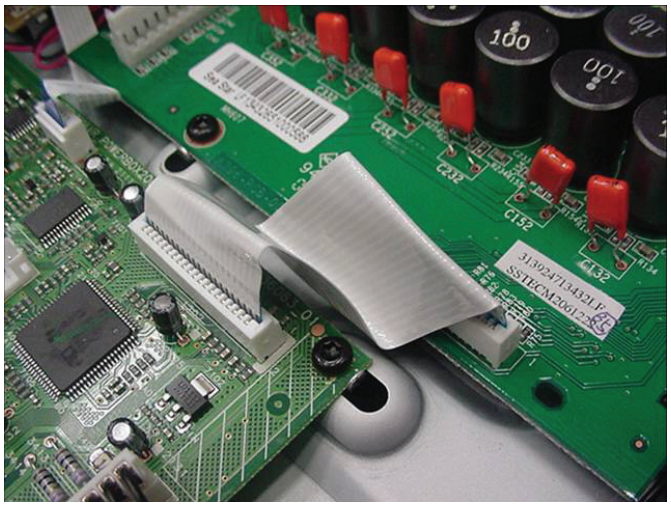


Figure 2-4

5) For the FFC cables from the Audio BD to Tuner/Speaker/ AIO BD, fold as indicated, hence, preventing them from touching the Audio BD itself.

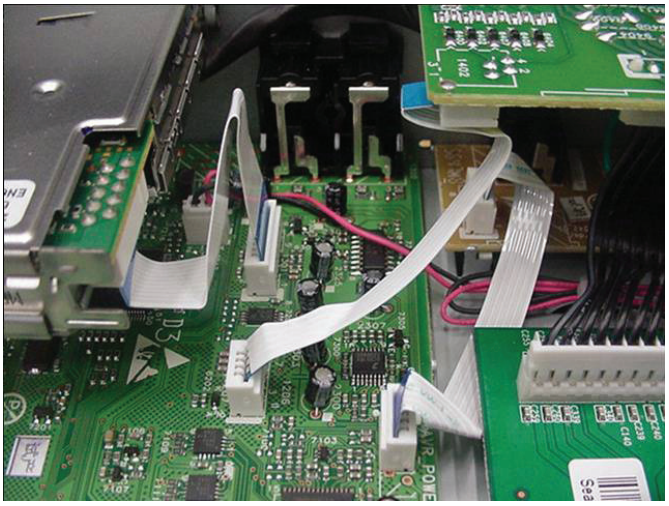


Figure 2-5

6) For the 9 pole cable linking from the Main Unit to the Power Box, tuck it underneath the tuner and above the 4 pole cinch connector and also making it as close as possible to the back metal plate.

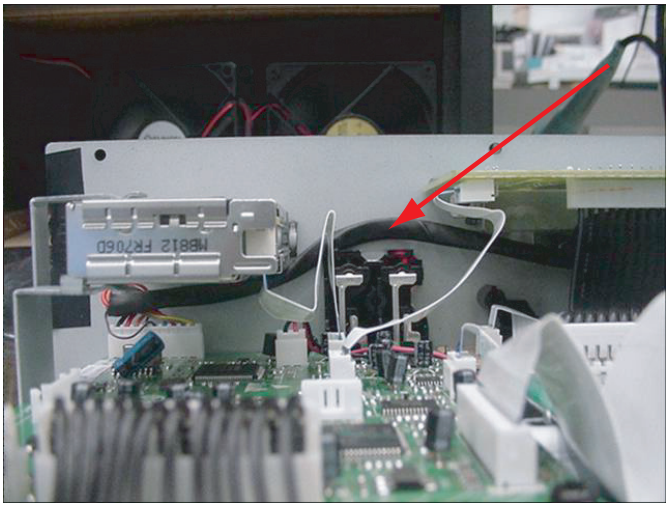


Figure 2-6

7) For reference to point 6).

Figure 2-7

8) The cables should be tied as indicated.

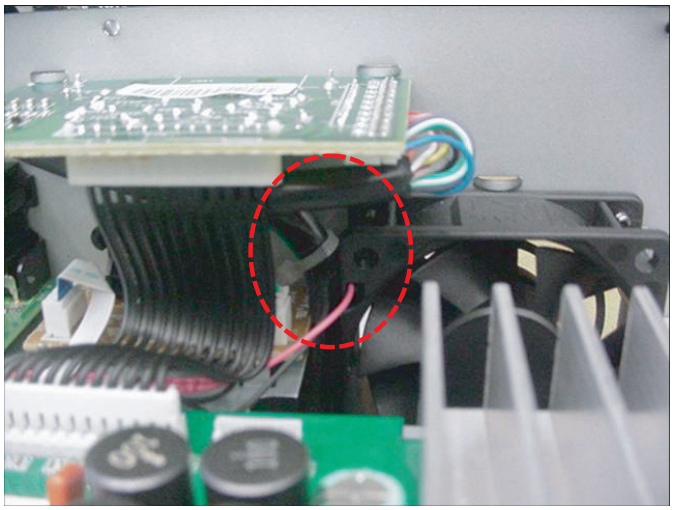


Figure 2-8

9) With reference to point 8), all cables should refrain from touching or even getting near to the PSU.

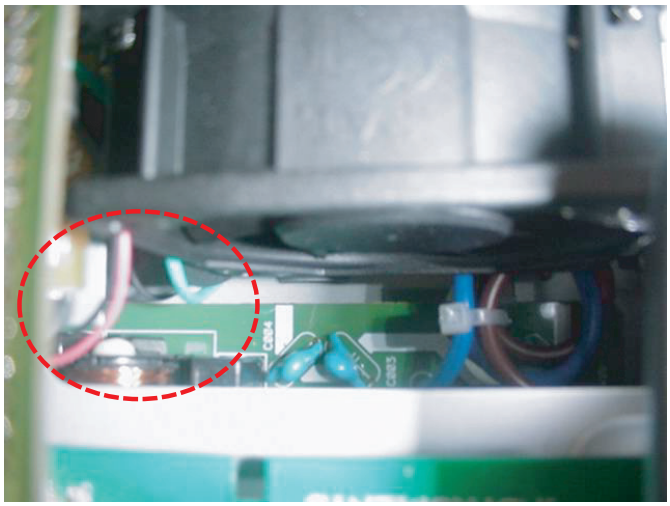


Figure 2-9

10) Overview

Figure 2-10

11) Paste a tape over the subwoofer cable on the Tuner as indicated. Secondly, the cable should be outside of the Audio BD, along the edge of the metal chassis.

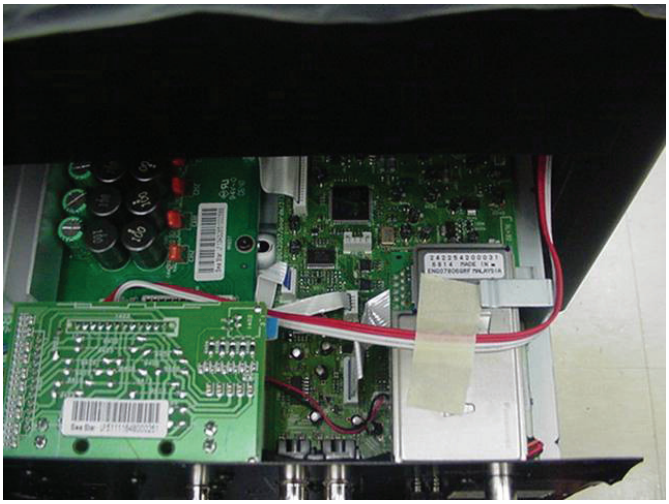


Figure 2-11

12) With reference to point 11).

Figure 2-12

13) With reference to point 11). Note that the cable should not be bent to the left across the Audio BD due to the excess cable when the unit is being push back inside the wooden Power Box.

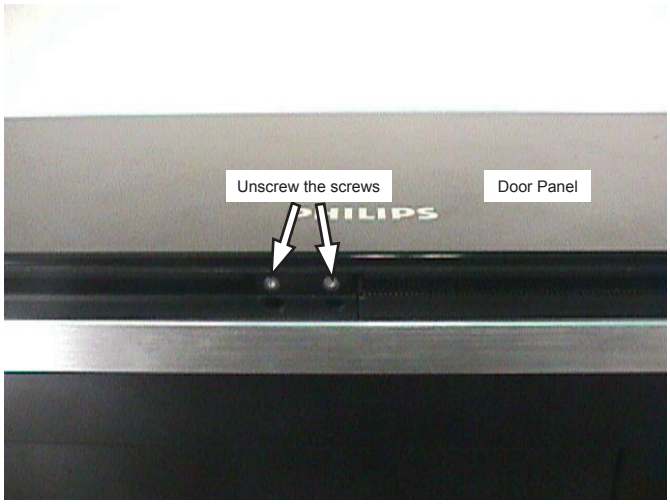
Figure 2-13

14) With reference to point 11).

Figure 2-14

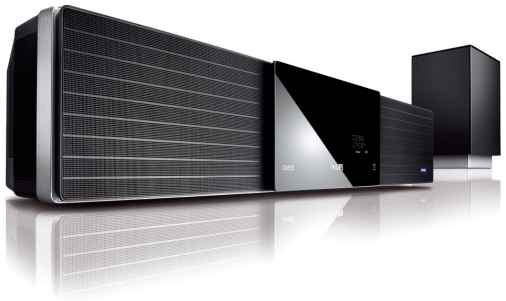
2.2.3 Service Hints for Dismantling of Main Unit

Before dismantling the main unit, unscrew the screws and detach the door panel assembly (120+121) as shown in the figure. Make sure to keep the face of the set (the door panel 121) away from scratches while dismantling or servicing the set.



Detach Door Panel Assembly
Figure 2-15

Quick Start Guide

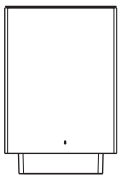


1 Connect
2 Set up
3 Enjoy

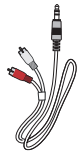
What's in the box?


Main Unit


Remote Control and 2 batteries


Subwoofer


Power Cable

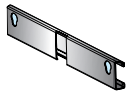

Audio Cable


Scart Cable


MP3 LINE-IN cable


FM wire antenna


AM/MW loop antenna


main unit wall mounting bracket


Micro fibre cleaning cloth

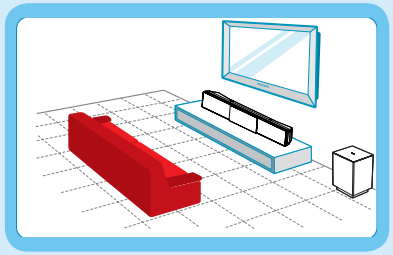
User Manual

PHILIPS

1 Connect

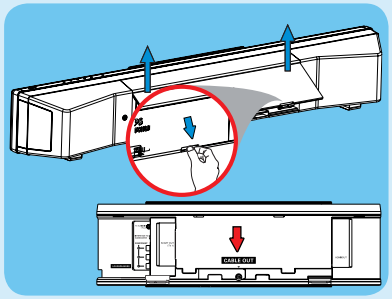
A Placement

Proper speakers system placement is important to ensure optimum sound performance.



1. Place the Sound Bar system at the normal listening ear-level, or at least above the knee-level. Face it straight ahead towards the listening area.
2. Place the subwoofer on the floor, at least one metre away from the TV.

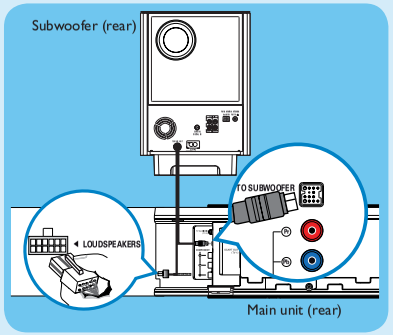
B Preparing for rear connections



1. Push up the catches to lift up the rear cover.
2. Connect the required cables and direct all the cables to the CABLE OUT point (see the following sections for details).

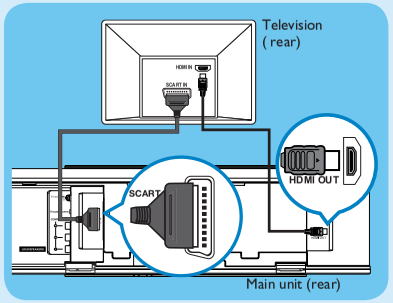
Note All the cables must be placed properly inside the rear panel in order for the rear cover to close.

C Connect the Sound Bar system and subwoofer



- Connect the TO MAIN UNIT cable from the subwoofer to the rear of the main unit. One end connect to TO SUBWOOFER socket and another end connect to LOUDSPEAKERS socket.

D Connect the main unit to TV



- Connect a scart cable (supplied) from the SCART OUT (TV1) socket on the main unit to the SCART IN socket on your TV.

  OR

- If your TV supports HDMI, connect the HDMI cable (not supplied) from the HDMI OUT to the HDMI IN socket on your TV.

Note It is important to connect the main unit directly to your TV.

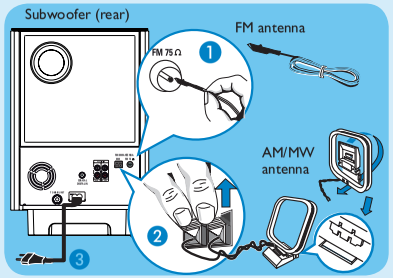
3.1. Directions For Use /05/12

The following except of the Quick Use Guide serves as an introduction to the set.
The Complete Direction for the Use can be downloaded in different languages from the internet site of Philips Customer care Center:
www.p4c.philips.com

2 Set up

E Connect the radio antennas

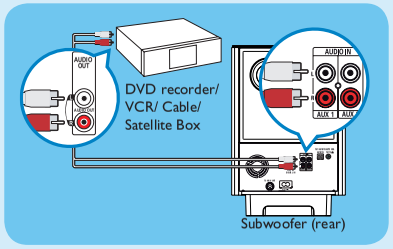
Keep the antennas away from the electronic devices to prevent unwanted interference.



1. Connect the FM antenna to the inner pin of the FM 75 Ω socket. For optimum reception, extend the wire and fix its end to the wall.
2. Unfold the AM/MW loop antenna and fix the claw into the slot. Push the tabs and insert the wires into the AM/MW sockets
3. Connect the power cable from subwoofer to the AC power outlet.

F Connect audio output from other device (optional)

Use a red and white audio cables (not supplied) to connect the AUDIO IN-AUX1 or AUX2 sockets on the subwoofer to the AUDIO OUT sockets on the connected device (for example, DVD recorder, VCR, Cable/Satellite Box).



Note Press **AUX** on the remote control to select 'AUX1' or 'AUX2' as the source you want to listen to.

A Finding the viewing channel

1. Press ⏻ (STANDBY ON) on the main unit to turn it on.
2. Turn on the TV. Use the TVs remote control to select the correct viewing channel.

Note To search for the correct viewing channel, press the Channel Down button on the TVs remote control repeatedly (or AV, SELECT, ⇥ button) until you see the Video In channel.

B Setting up the speakers

When you turn on this unit for the first time, the speaker setup message appears on the TV. Follow the on-screen instructions to complete the setup.

1. Press cursor right key on the remote control to access Sound Bar system setup.
2. When the { Orientation } screen appears, press cursor right key to continue.
3. Select a most suitable predefined setting according to your room environment and setup, press cursor right key to confirm and go to the next screen.

{ Room Acoustics }
Select the type of walls that surround your room. The default setting is 'Hard (concrete, wood)'.

{ Room Placement }
Select the Sound Bar system's placement position in your room. The default setting is 'Middle'.

{ Height }
Select the height at which the Sound Bar system is placed. The default setting is between 0.8~1.2 metres.

{ Distance }
Select the distance between the listening position and the Sound Bar system. The default setting is between 2~3 metres.

4. When the { Complete } screen appears, press cursor right key to exit.

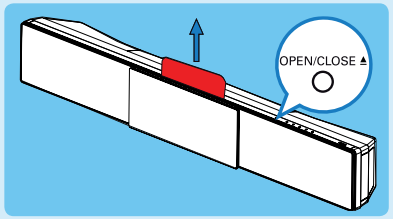
Note Refer to the accompanying user manual for other setup options.

3 Enjoy

Start disc playback

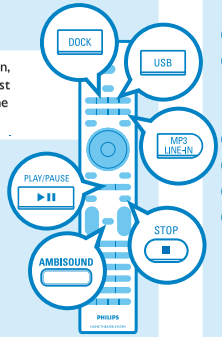
Before you start ...
Remove the door-lock tag on top of the disc compartment door.

1. Press ⏏ to open the disc compartment.



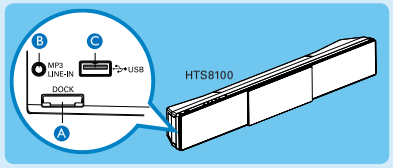
2. Place a disc with the disc label facing towards you.
3. Press ⏏ to close the disc compartment.
4. Playback starts automatically.
5. If the disc menu appears on the TV, use cursor keys to select an option in the menu and press **OK** to start playback.
- To enjoy the powerful surround sound from the speakers, press **AMBISOUND** on the remote control to turn on the multi-channel surround mode.
6. Press ■ to stop playback.

Note When you press ▶II button, playback resumes from where it last stopped. To start playback from the beginning, you have to press I◀◀.



Playback other supported devices

The connections to other devices are located at the left side of the main unit.



Philips GoGear/Apple iPod

1. Connect the Philips HTD7001 docking station (sold separately) to A.
2. Turn on your GoGear or iPod before dock it in the correct cradle.
3. Press **DOCK** to switch to 'DOCK' mode.
4. Press PLAY on your GoGear or iPod.

Other portable audio player

1. Use the supplied MP3 LINE-IN cable to connect the headphone output socket on your portable audio player to B.
2. Press PLAY on your portable audio player.
3. Press **MP3 LINE-IN** to listen to the playback.

USB device

1. Insert your USB device to C.
2. Press **USB** to switch to 'USB' mode.
3. Press ▶II to start playback.
4. To stop playback, press **DISC** to switch to 'DISC' mode. You can unplug your USB device now.

Need help?

User Manual
See the user manual that came with your Philips DVD Home Theatre System.

Online
Go to www.philips.com/support

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Respect copyrights

12 NC 3139 245 26031
www.philips.com

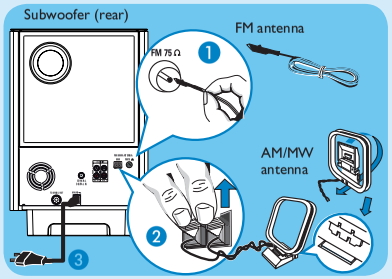
3.2. Directions For Use /37/59

The following except of the Quick Use Guide serves as an introduction to the set.
The Complete Direction for the Use can be downloaded in different languages from the internet site of Philips Customer care Center:
www.p4c.philips.com

2 Set up

E Connect the radio antennas

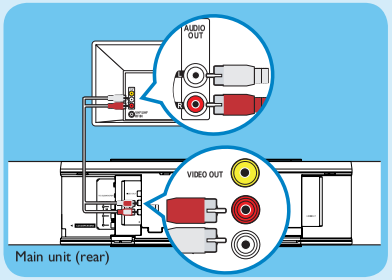
Keep the antennas away from the electronic devices to prevent unwanted interference.



1. Connect the FM antenna to the inner pin of the FM 75 Ω jack. For optimum reception, extend the wire and fix its end to the wall.
2. Unfold the AM/MW loop antenna and fix the claw into the slot. Push the tabs and insert the wires into the AM/MW jacks
3. Connect the power cable from subwoofer to the AC power outlet.

F Connect audio output from TV (optional)

To hear the TV audio through this home theater system, use the red and white audio cables (not supplied) to connect the AUDIO IN jacks on the main unit to the AUDIO OUT jacks on your TV.



Note Press **TV** on the remote control to get the sound output from the speakers system when watching the TV program.

A Finding the viewing channel

1. Press ⏻ (STANDBY ON) on the main unit to turn it on.
2. Turn on the TV. Use the TVs remote control to select the correct viewing channel.

Note To search for the correct viewing channel, press the Channel Down button on the TVs remote control repeatedly (or AV, SELECT, ⇥ button) until you see the Video In channel. If you are using a RF modulator, set the TV to channel 3 or 4.

B Setting up the speakers

When you turn on this unit for the first time, the speaker setup message appears on the TV. Follow the on-screen instructions to complete the setup.

1. Press cursor right key on the remote control to access Sound Bar system setup.
2. When the { Orientation } screen appears, press cursor right key to continue.
3. Select a most suitable predefined setting according to your room environment and setup, press cursor right key to confirm and go to the next screen.

{ Room Acoustics }
Select the type of walls that surround your room. The default setting is 'Hard (concrete, wood).'

{ Room Placement }
Select the Sound Bar system's placement position in your room. The default setting is 'Middle.'

{ Height }
Select the height at which the Sound Bar system is placed. The default setting is between 0.8~1.2 meters.

{ Distance }
Select the distance between the listening position and the Sound Bar system. The default setting is between 2~3 meters.

4. When the { Complete } screen appears, press cursor right key to exit.

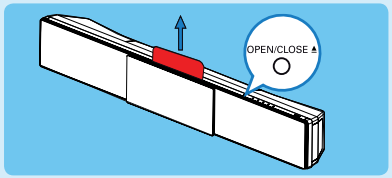
Note Refer to the accompanying user manual for other setup options.

3 Enjoy

Start disc playback

Before you start ...
Remove the door-lock tag on top of the disc compartment door.

1. Press ⏏ to open the disc compartment.

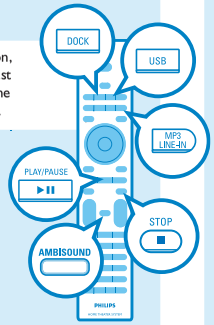


2. Place a disc with the disc label facing towards you.
3. Press ⏏ to close the disc compartment.
4. Playback starts automatically.
5. If the disc menu appears on the TV, use cursor keys to select an option in the menu and press **OK** to start playback.

- To enjoy the powerful surround sound from the speakers, press **AMBISOUND** on the remote control to turn on the multi-channel surround mode.

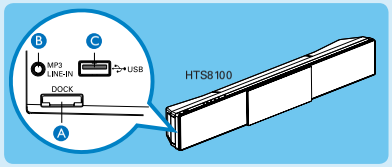
6. Press ■ to stop playback.

Note When you press ▶II button, playback resumes from where it last stopped. To start playback from the beginning, you have to press I◀◀.



Playback other supported devices

The connections to other devices are located at the left side of the main unit.



Philips GoGear/Apple iPod

1. Connect the Philips HTD7001 docking station to A.
2. Turn on your GoGear or iPod before dock it in the correct cradle.
3. Press **DOCK** to switch to 'DOCK' mode.
4. Press PLAY on your GoGear or iPod.

Other portable audio player

1. Use the supplied MP3 LINE-IN cable to connect the headphone output socket on your portable audio player to B.
2. Press PLAY on your portable audio player.
3. Press **MP3 LINE-IN** to listen to the playback.

USB device

1. Insert your USB device to C.
2. Press **USB** to switch to 'USB' mode.
3. Press ▶II to start playback.
4. To stop playback, press **DISC** to switch to 'DISC' mode. You can unplug your USB device now.

Need help?

User Manual
See the user manual that came with your Philips DVD Home Theater System.

Online
Go to www.philips.com/usasupport

Hotline
Call 1-888-PHILIPS (1-888-744-5477) for our operators.

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4. Mechanical Instructions

Notes: The position numbers used in the instructions refer to the exploded view drawings in Chapter 8.
Follow the Service Hints in Chapter 2 for dismantling the Main Unit, replacing the defective DVD mechanism and the Power Box Cable Dressing.

4.1 Dismantling of the Main Unit

4.1.1 Dismantling of HDMI and AVIO (SCART) boards

1) Remove Door Cover 200-49 (Speaker Box Assembly Exploded View) and remove 10 screws to detach the Rear Cover 200-47 (Speaker Box Assembly Exploded View) as shown in Figure 1.

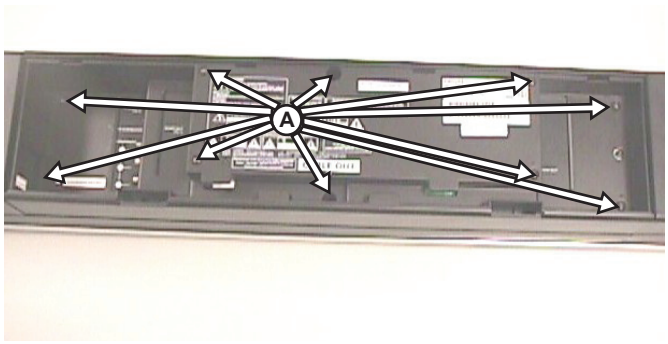


Figure 4-1

2) Remove 4 screws to detach HDMI board 1060 from the HDMI Bracket 134 as shown in figure 2.

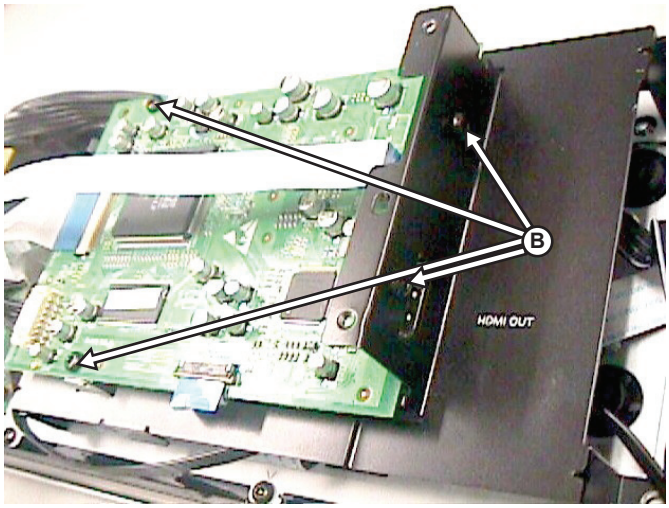
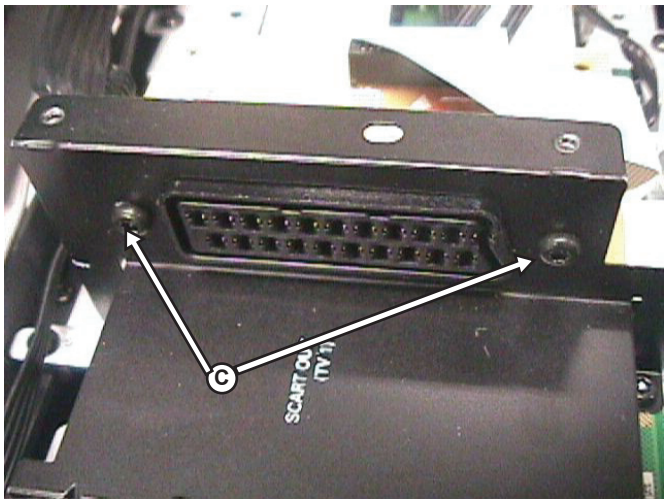
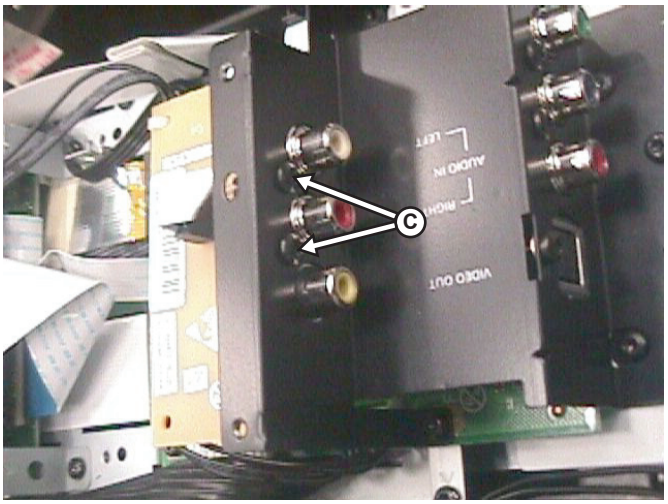


Figure 4-2

3) Remove 2 screws to detach the AVIO (SCART) board (1040 for /05/12 and 1030 for /37/59) from the AVIO (SCART) Bracket 135 as shown in figure 3.



AVIO (SCART) for /05/12
Figure 4-3-a



AVIO for /37/59
Figure 4-3-b

4.1.2 Dismantling of SD9.2 MPEG board and AV board

1) In order to dismantle the SD9.2 Mono Board1070, it is necessary to remove the Rear Cabinet and the HDMI assembly (1060 +134). The mounting screws for HDMI assembly (1060 + 134) are shown in figure 4. Remove 4 screws to detach the HDMI assembly (1060 + 134) from the rear frame 132.

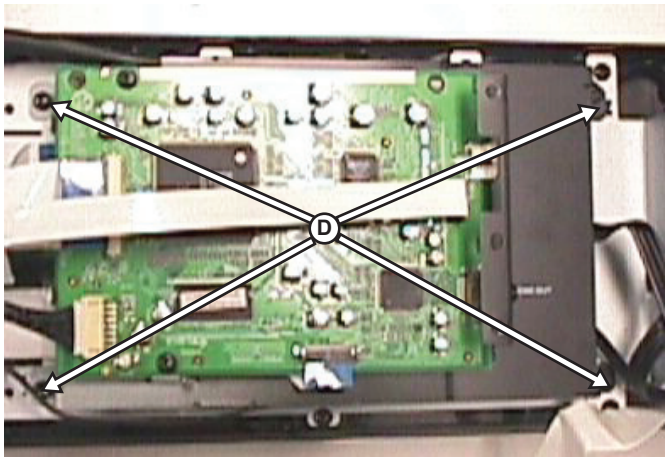


Figure 4-4

2) After removing the HDMI assembly (1060 + 134), remove 4 mounting screws to dismantle the SD9.2 Mono Board 1070 as shown in figure 5.

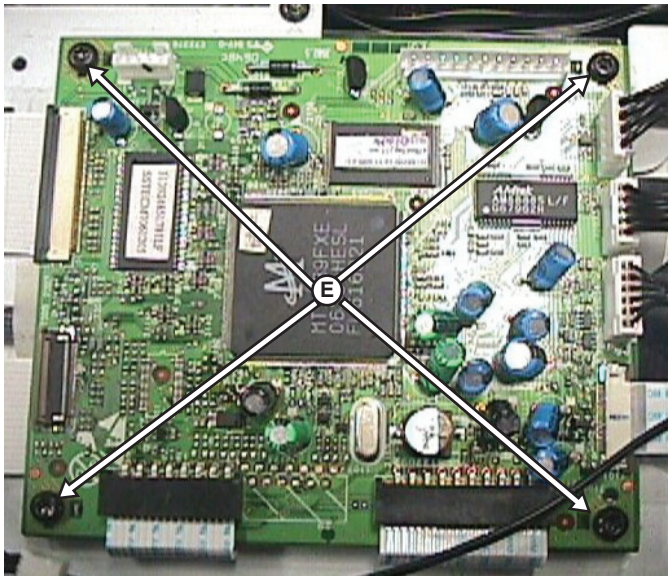


Figure 4-5

3) Remove 5 screws to detach the AVIO (SCART) and AV assembly (1040+135+1020 for /05/12, and 1030+135+1020 for /37/59) from the rear frame 132 as shown in figure 6.

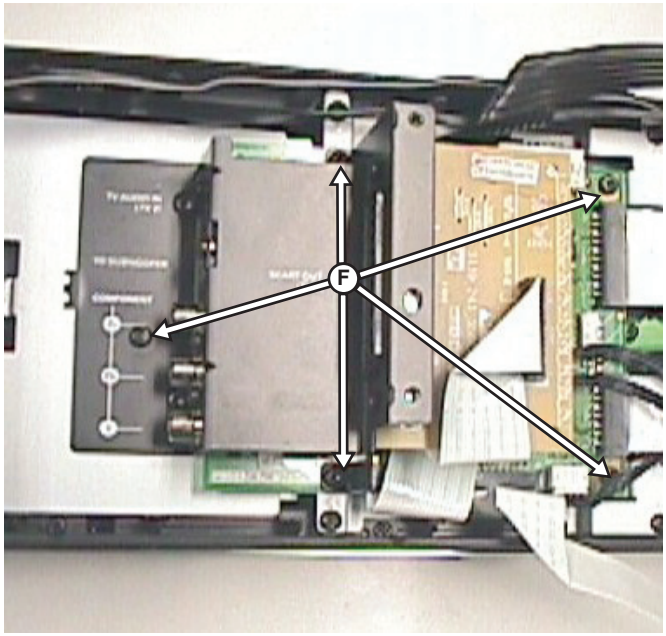


Figure 4-6

4) Then remove 3 more screws to detach the AV Board 1020 from the AVIO (SCART) and AV assembly (1040+135+1020 for /05/12 and 1030+135+1020 for /37/59) as shown in figure 7.

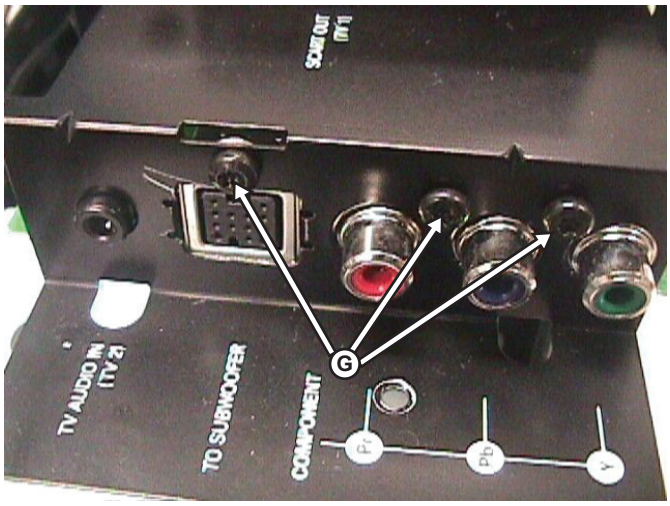


Figure 4-7

4.1.3 Dismantling of Door Board, Motor Assembly, DVD Mechanism, and Front Board

1) Remove the Rear Cover first (figure 1), remove the HDMI assembly (1060 + 134, figure 4), remove the SD9.2 Mono Board 1070 (figure 5), if it is necessary, and then remove the Rear Frame assembly (132+1040+135+1020 for /05/12, and 132+1030+135+1020 for /37/59) by removing 13 screws as shown in figure 8.

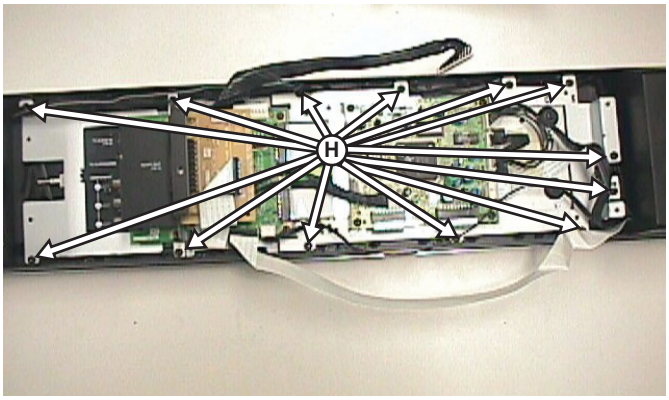


Figure 4-8

1) Remove 4 screws to dismantle the Door Board, Motor and Gear Box Assembly (115+116+117+118+119+1090 +1014). Remove1 screw to detach the Door Board 1014 from the Motor and Gear Box Assembly (115+116+117+1 18+119+1090). The mounting screws are shown in figure 9.

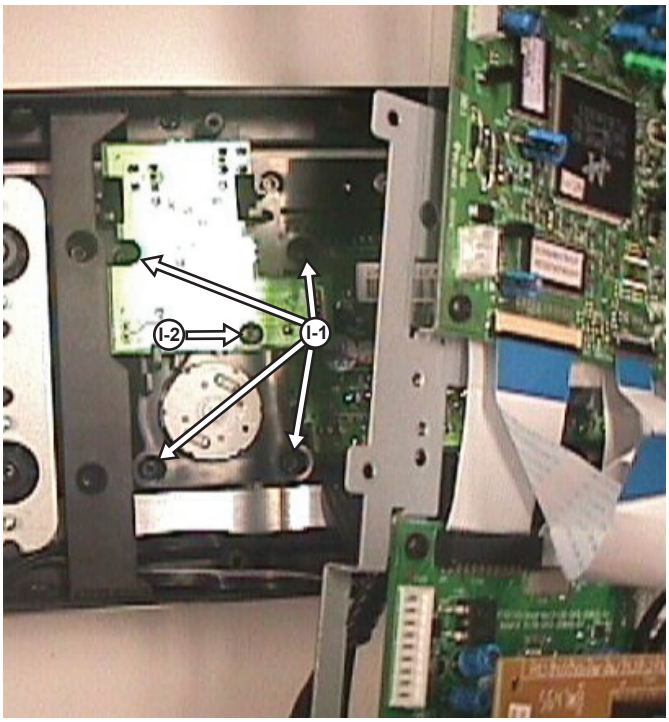


Figure 4-9

3) Remove 4 screws to dismount the DVD assembly (127+ 129 +1080) as shown in figure 10. Flip over the assembly to see the 4 screws that attach the DVD Mechanism 1080 to the Traverse Bracket 127 as shown in figure 11. Remove the screws and detach the DVD Mechanism from the Assembly (Refer to “Service Hints” in chapter 2 for replacing the DVD mechanism.)

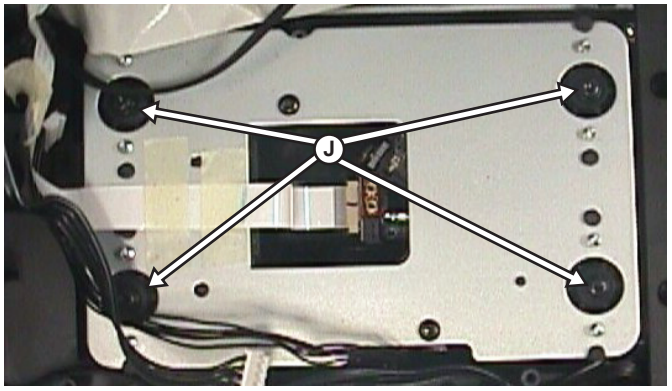


Figure 4-10

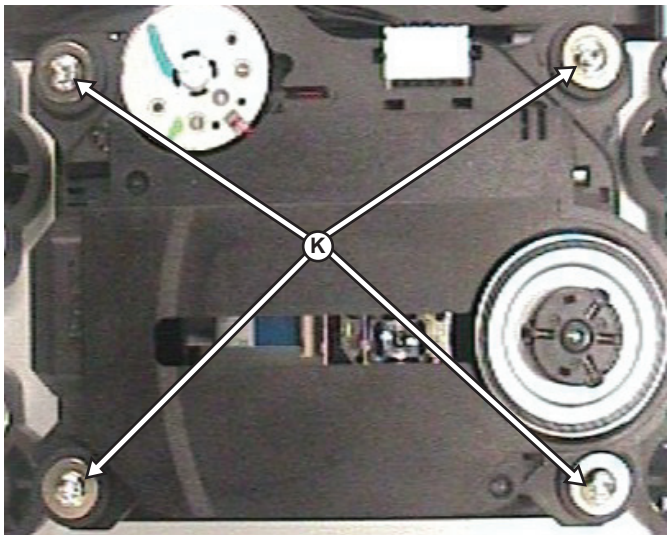


Figure 4-11

4) Remove 3 screws to dismount the Front Board as shown in figure 12.

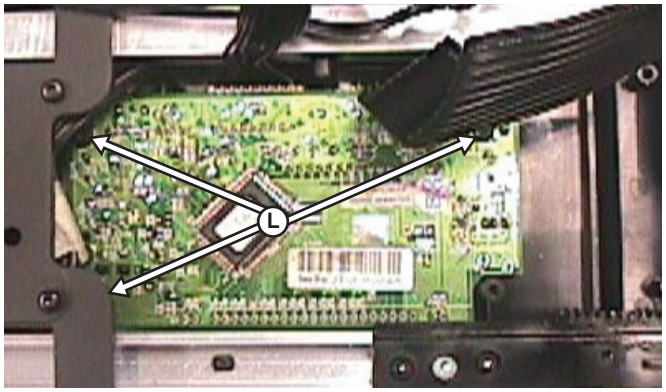
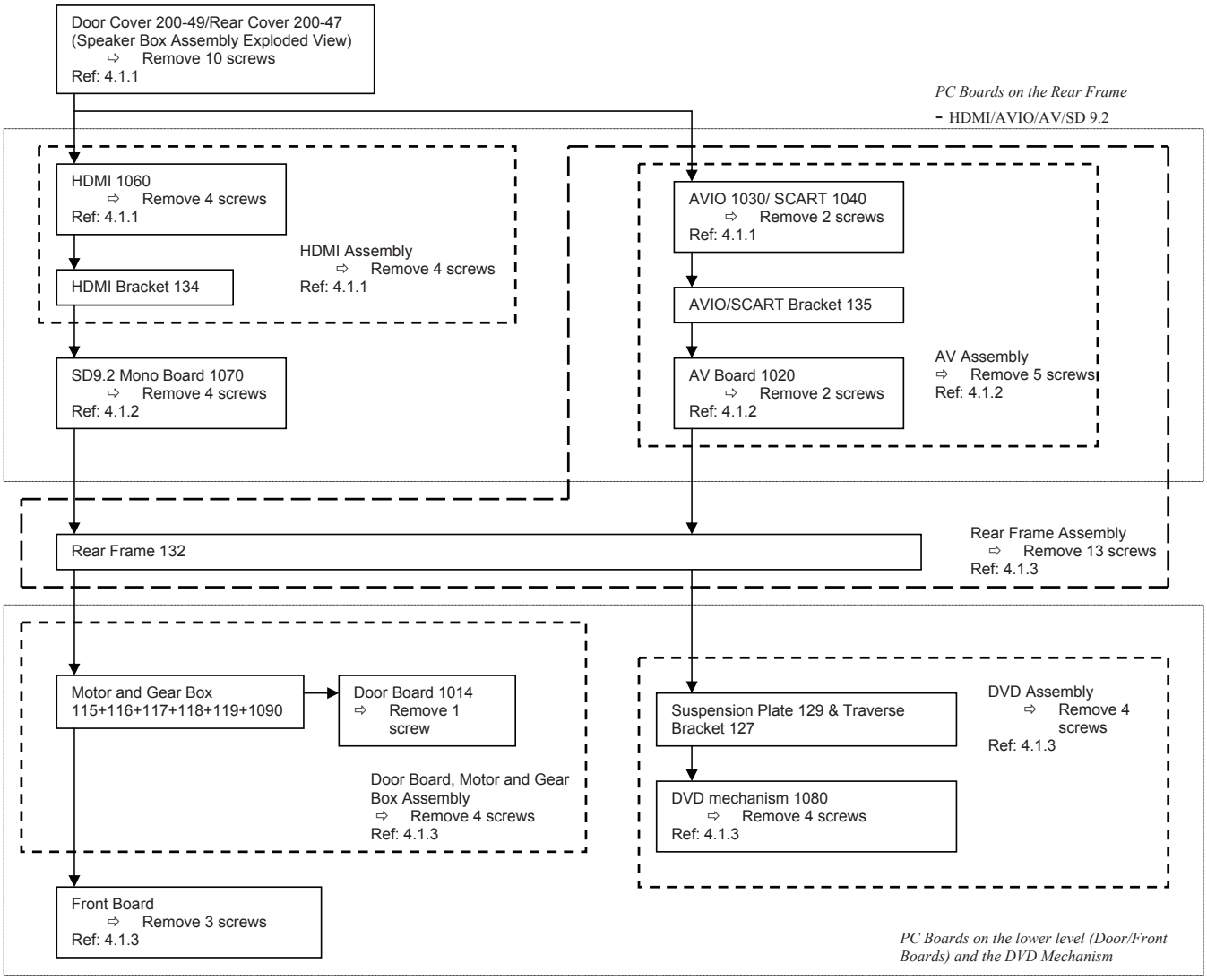


Figure 4-12

Summary of Dismantling Instructions (4.1.1 to 4.1.3)



4.1.4. Dismantling of USB Board and IPOD Board

1) In order to dismantle the USB Board 1013 and IPOD Board 1050, it is required to remove the iPOD Cover (Speaker Box Assembly Exploded View) by unscrewing the 8 screws as shown in figure 13.

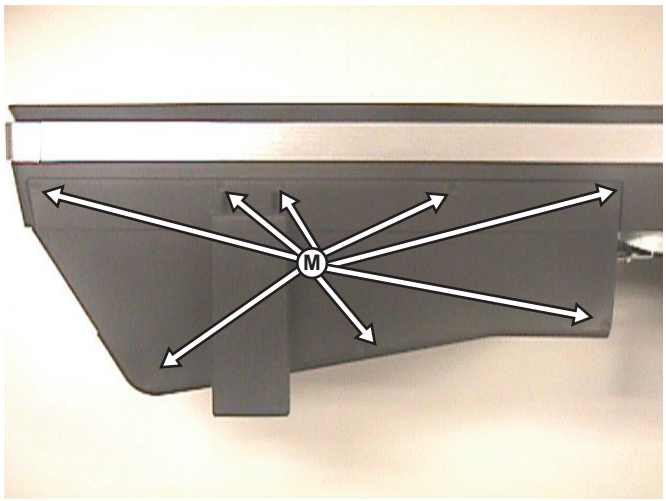


Figure 4-13

2) Remove 3 screws to dismantle the IPOD Board 1050 from the Bracket 140 as shown in figure 14.

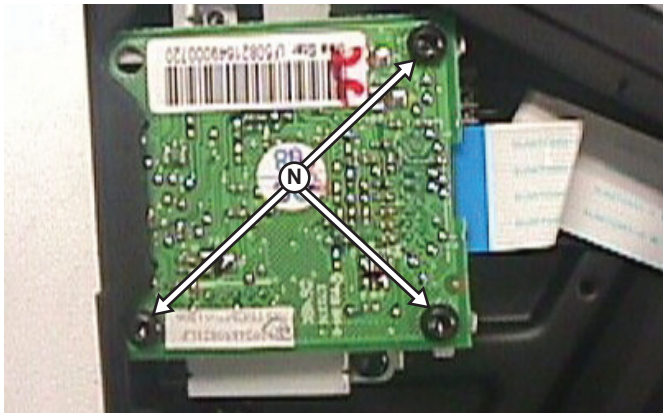


Figure 4-14

3) Remove 3 screws to detach the Bracket 140 together with USB Board 1013 as shown in figure 15.

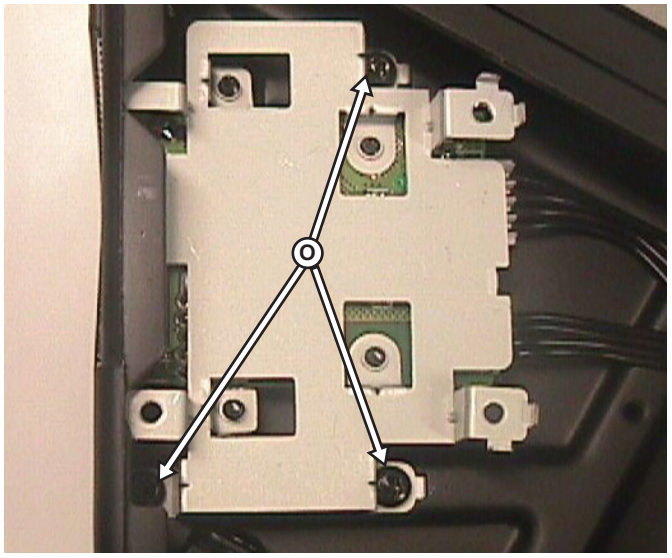


Figure 4-15

4) Flip over the assembly (140+1013) and remove 4 screws to detach the USB Board 1013 from the Bracket 140 as shown in figure 16.

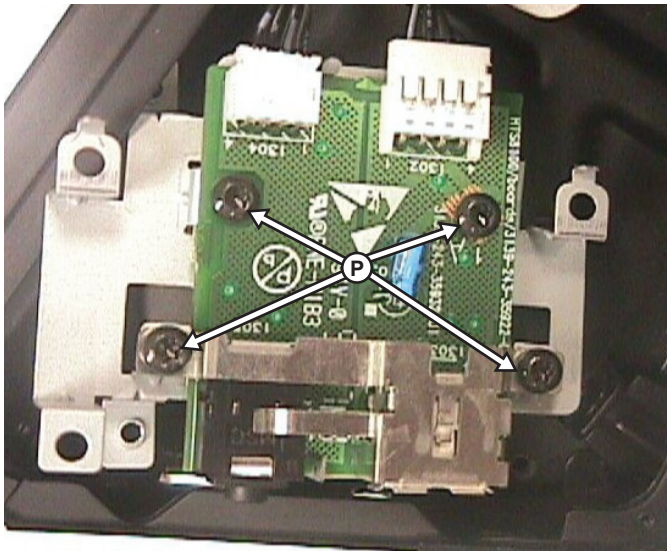


Figure 4-16

4.2 Dismantling of the Speaker Box Assembly

1) It is necessary to remove the Rear Cover and all the main unit components (PC Boards together with the Brackets) to dismantle the Speaker Box Assembly without interference. Remove the Rear Cover first. Then remove the HDMI assembly. After that, remove the Rear Frame assembly together with the Motor Board and the Front Board. Finally, remove the DVD assembly. (Follow the procedures in article 4.1)
2) Remove 2 screws and detach the Door Panel Frame (Refer to “2.2.3 Service hints for dismantling of the main unit” in Chapter 2).
3) Remove 12 screws (6 screws on the front as shown in figure 17 and 6 screws on the Rear Cabinet as shown in figure 18) and detach the frame door and disc compartment assembly (122 +124 + 123 + 101 + 143 + 101 +112 in Main Unit Exploded View) from the Speaker Box Assembly.

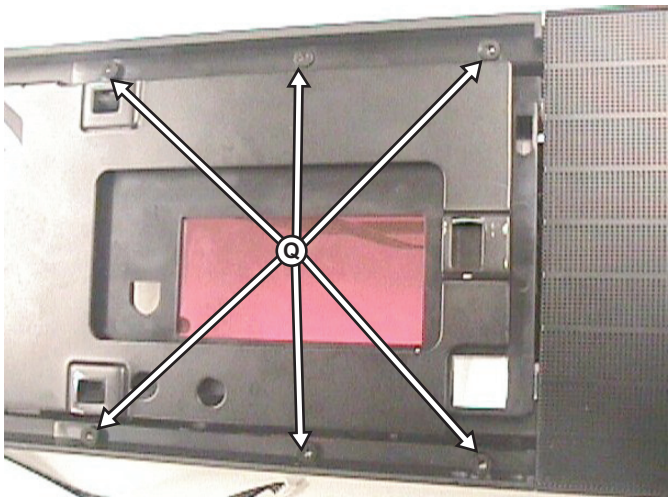


Figure 4-17

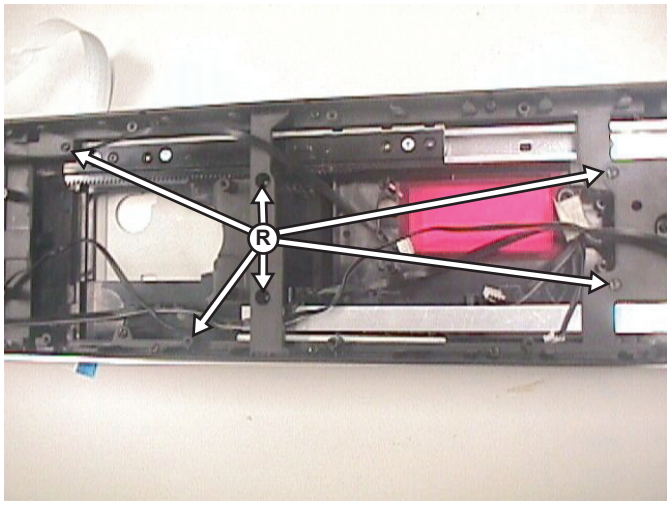


Figure 4-18

4) Remove 9 more screws from the Rear Cabinet (5 screws on the right and 4 screws on the left as shown in figure 19-a and 19-b) to detach 2 Speaker Grilles together with their Holders and the Grommets.

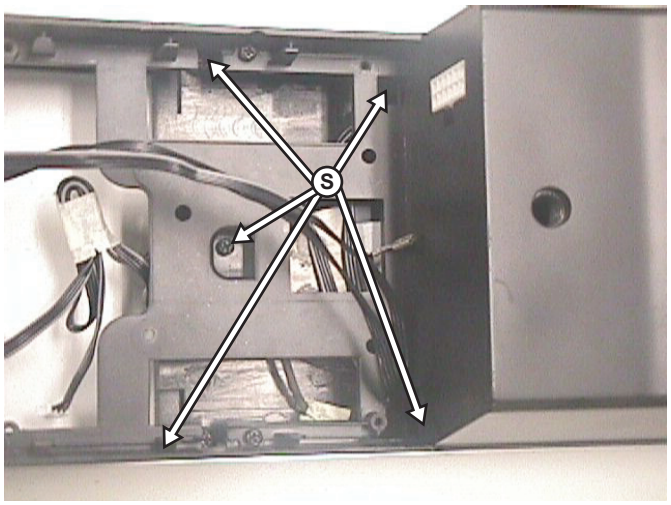


Figure 4-19-a

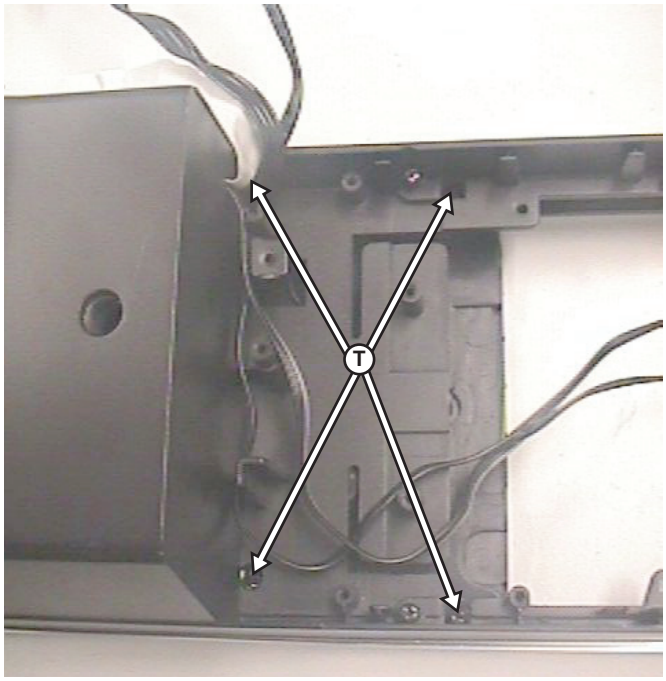


Figure 4-19-b

5) Remove 4 screws at the front (Make sure that all 4 Grommets are removed together with the Grilles; 2 screws on the right and 2 screws on the left as shown in figure 20.) and 10 more screws on the Rear Cabinet (figure 21). Detach the Cabinet Front Assembly from the Rear Cabinet. (Insert a screwdriver between the Cabinet Front Assembly and The Rear Cabinet and force them apart as shown in figure 22).

Figure 4-20-a

Figure 4-20-b

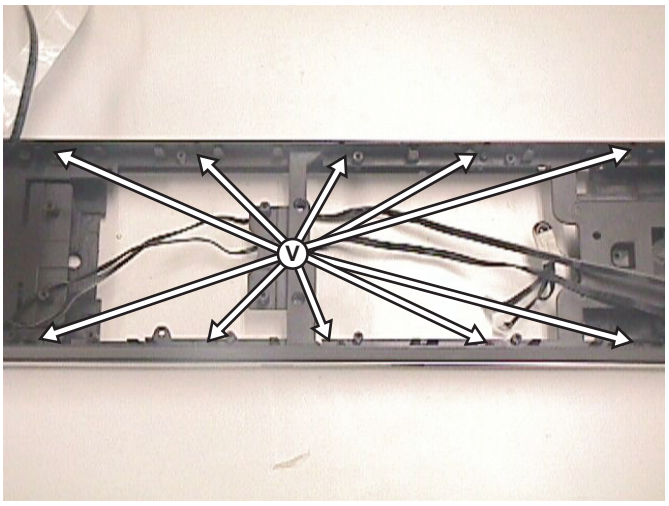


Figure 4-21

Figure 4-22

4.2.1. Dismantling of the right Speaker Module and the interface board

In order to dismantle the Right Speaker Module (Right Speaker Rear Cabinet + Right Speaker Front Panel + Right Speaker Units), it is necessary to unscrew the screws hidden inside the Speaker Cabinet. It is also necessary to detach the Right Metal Partition so that the Right Speaker Module would be readily detached without interference.

1) Remove 4 screws. Take out the centre speaker and remove 2 more screws inside the speaker cabinet as shown in figure 23-a.

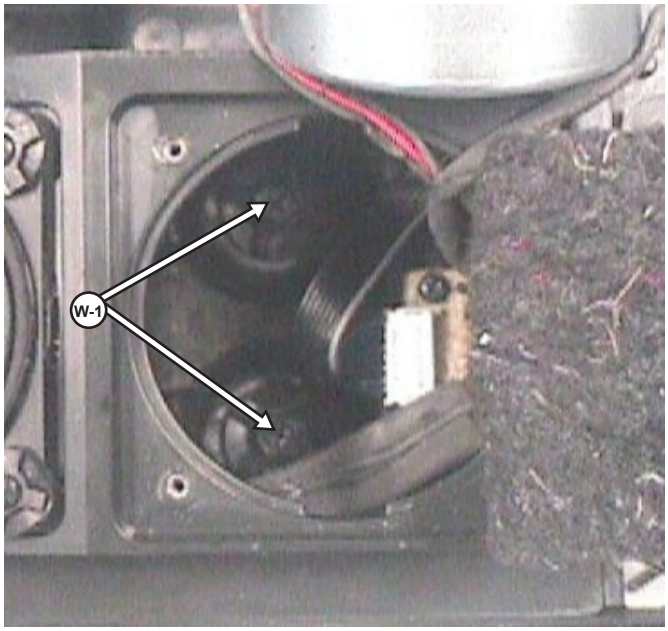


Figure 4-23-a

2) Remove 4 screws. Take out the surround speaker and remove 2 more screws inside the speaker cabinet as shown in figure 23-b.

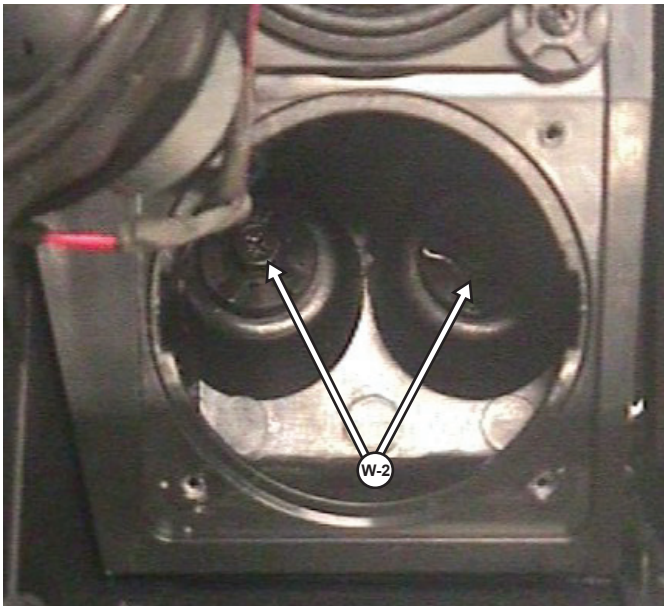


Figure 4-23-b

3) After taking out the speakers and removing the screws, the Right Metal Partition should be detached by removing 4 screws as shown in figure 24.

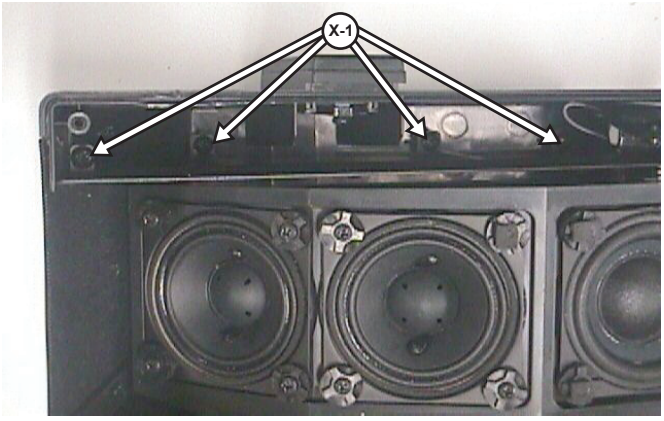


Figure 4-24

4) Dismantle the Right Speaker Module from the Rear Cabinet. To detach the interface board from the Right Metal Partition, unscrew 2 screws as shown in figure 25.

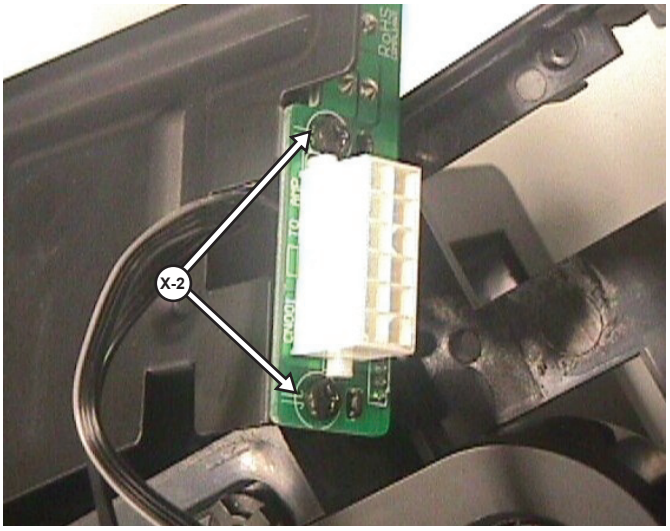


Figure 4-25

4.2.2. Dismantling of the left Speaker Module

1) In order to dismantle the Left Speaker Module (Left Speaker Rear Cabinet + Left Speaker Front Panel + Left Speaker Units), remove 8 screws first, take out the Surround and Center Speakers and remove 4 more screws inside the Speaker Cabinet.
2) Before detaching the Left Metal Partition, it is necessary to remove the IPOD cover and remove the IPOD and USB boards to see the screws that attached the left Metal Partition to the Rear Cabinet (Follow the procedures in article 4.1.4).
3) Then remove 5 screws and detach the left Metal Partition as shown in figure 26.
4) Dismantle the Left Speaker Module from the Rear Cabinet

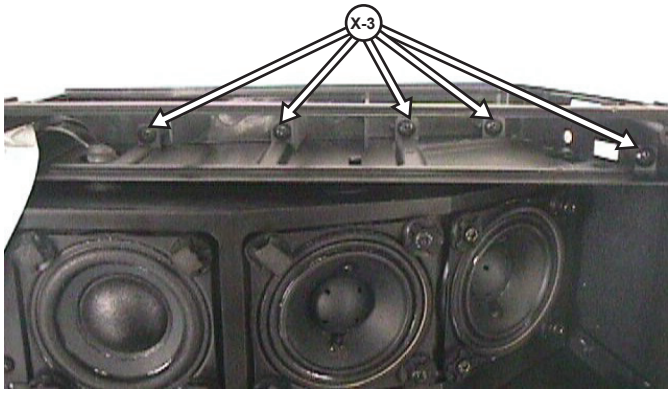
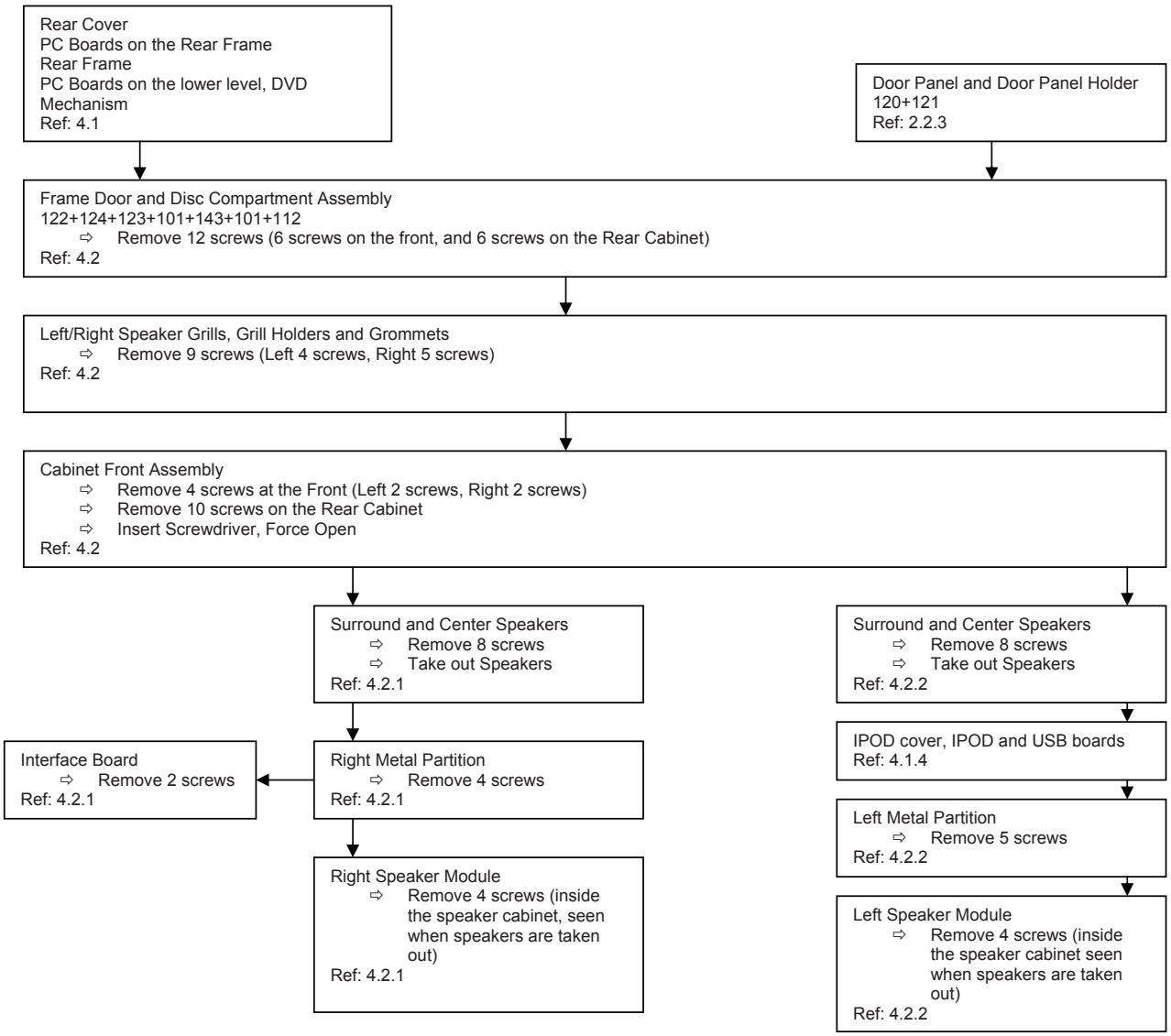


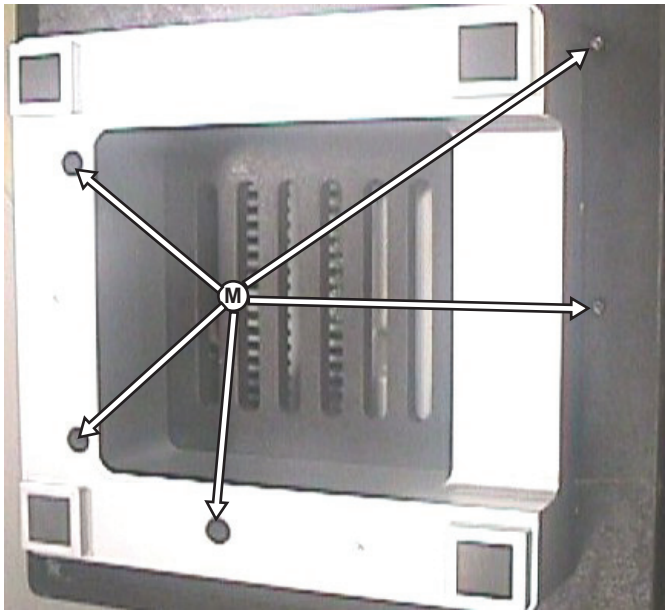
Figure 4-26

Summary of Dismantling Instructions (4.2, 4.2.1, 4.2.2)

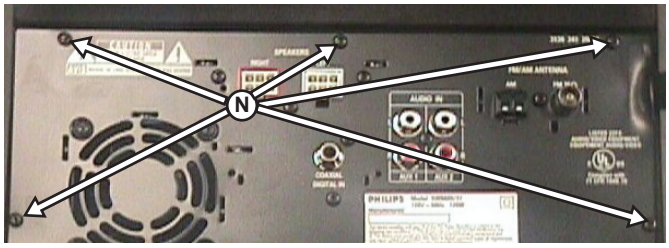


4.3 Dismantling of the Subwoofer Power Box

1) Loosen 5 screws at the base of the Subwoofer (as shown in figure 14) and remove 5 screws at the back (as shown in figure 15). Then pull out the Power Box Assembly.

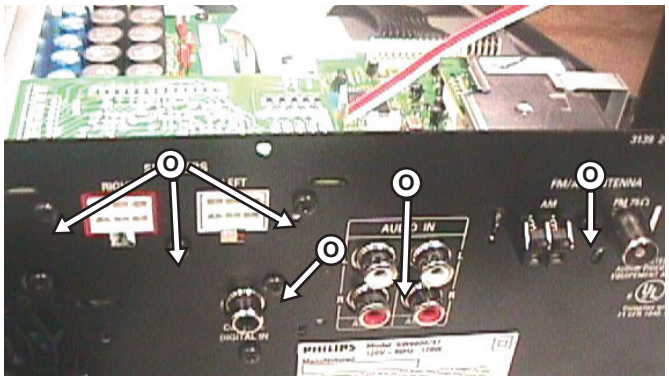


Subwoofer Figure 4-14

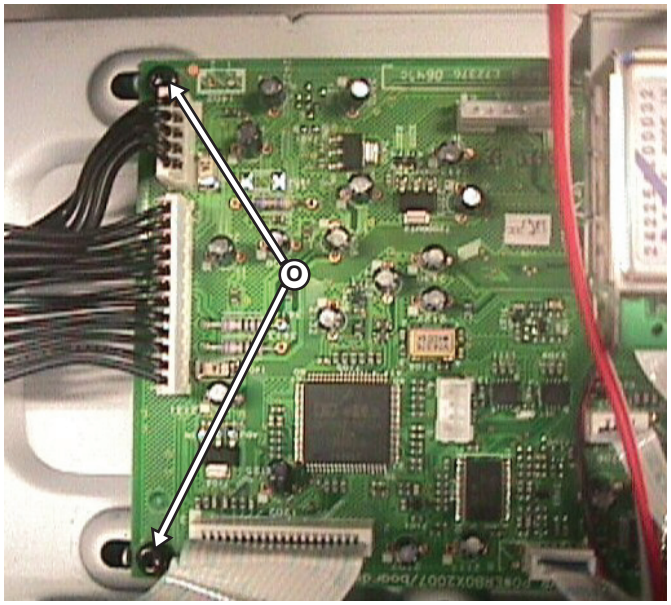


Subwoofer Figure 4-15

2) Remove1 screw for Tuner 1020, 3 screws for Speaker Board 1060, and 1 screw for AIO board 1050 to detach them from the Rear Plate 230. Remove 1 screw attached to the Rear Plate 230 and 2 screws attached to the bracket 236 for dismantling of the Audio Board 1040. Mounting Screws are shown in figure 16 and figure17.

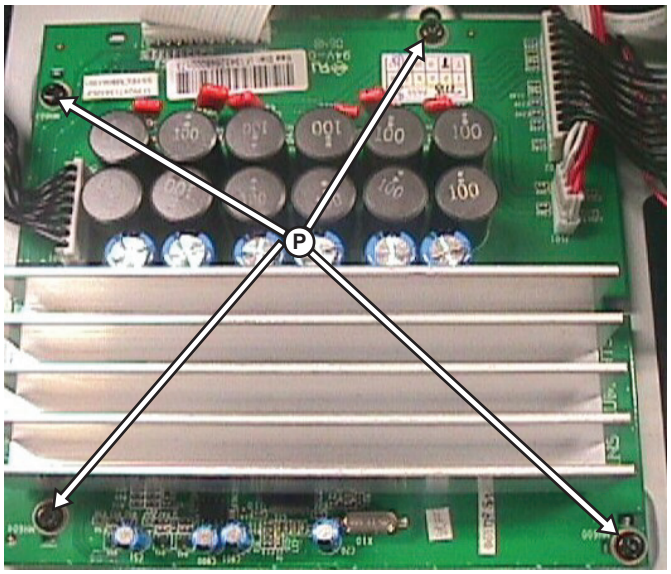


Subwoofer Figure 4-16



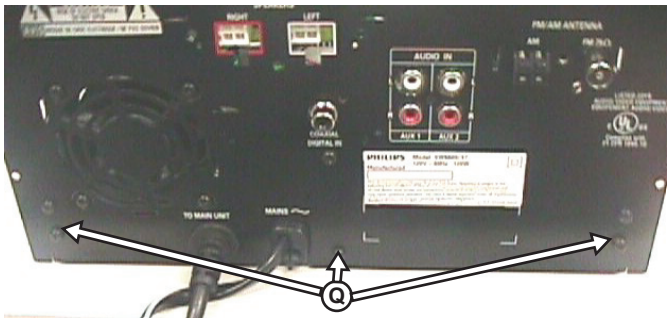
Subwoofer Figure 4-17

3) Remove 4 screws for dismantling of the Amplifier Module 1010 as shown in figure 18.

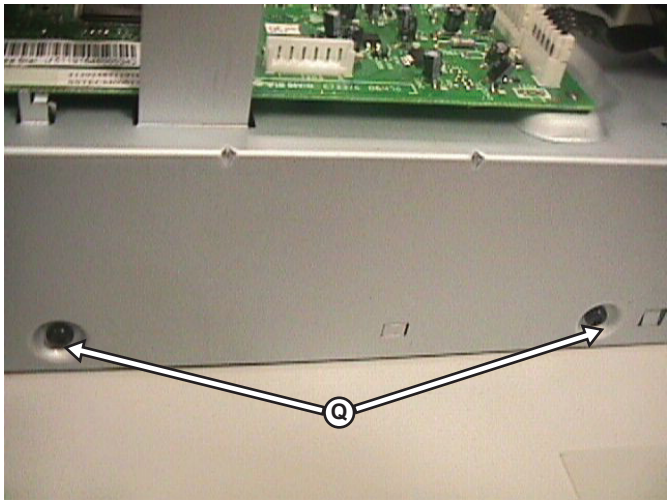


Subwoofer Figure 4-18

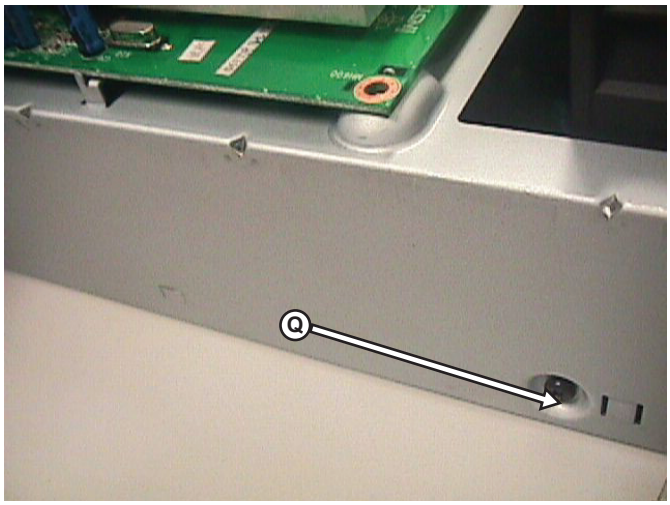
4) To dismantle the PSU 1030, it is necessary to dismantle the Bottom Plate Assembly (1030 +161) from the Rear Plate 230 (remove 3 screws as shown in figure 19) and the bracket 236 (remove 3 screws from both sides of the bracket 236 as shown in figure 20 and figure 21). Then detach the Bottom Plate Assembly (1030 +161) from the Rear Plate 230 and remove 4 screws detach the PSU 1030 from the Bottom Plate 161 as shown in figure 22.



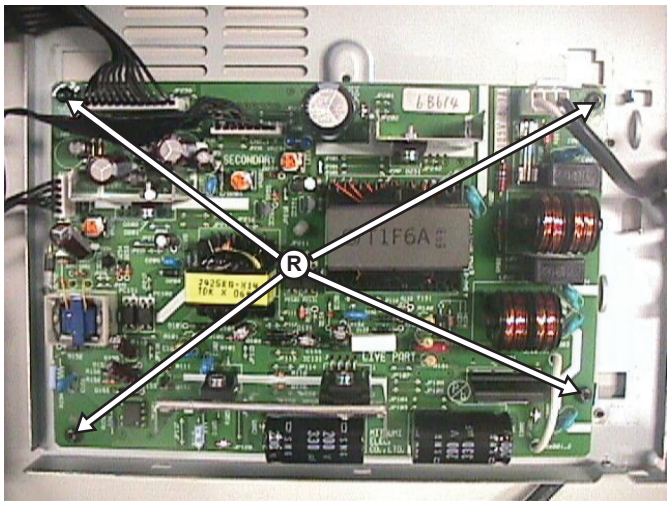
Subwoofer Figure 4-19



Subwoofer Figure 4-20



Subwoofer Figure 4-21



Subwoofer Figure 4-22

4.4 Service Positions

Notes: The AVIO (SCART) bracket 135, the HDMI bracket 134 and the rear frame 132 should be removed for main unit service positions. Refer to the set-wiring diagram for the correct cable connection between boards.

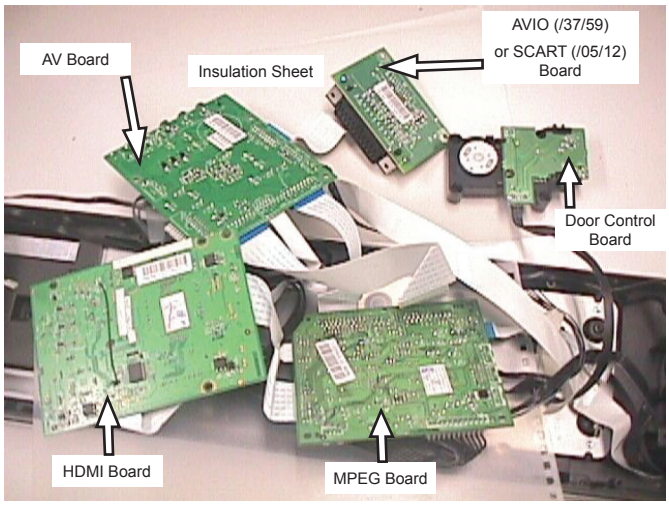


Figure 4-27
Service Position 1
MPEG Board, AV Board, AVIO Board, Door Control Board and HDMI Board

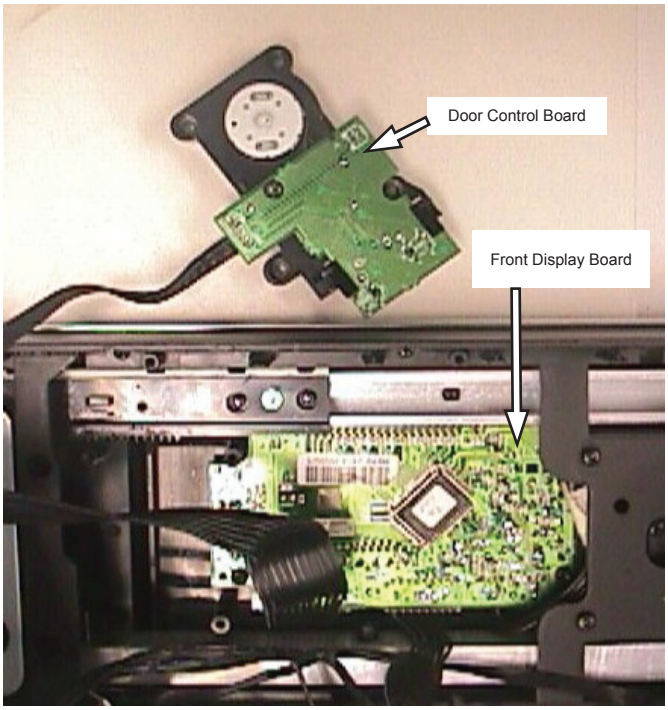


Figure 4-28
Service Position 2
Front Display Board and Door Control Board

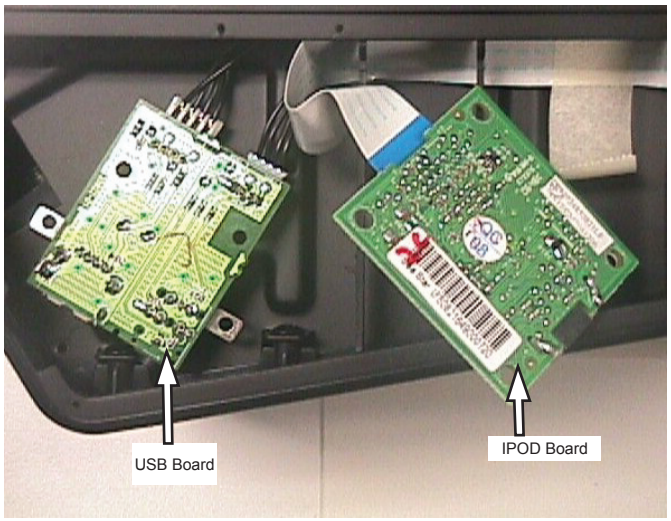


Figure 4-29
Service Position 3
IPOD Board and USB Board

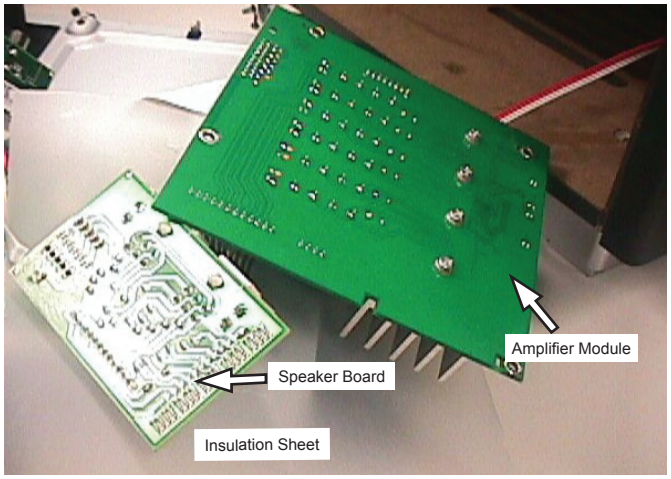


Figure 4-30
Power Box Service Position 4
Amplifier Module and Speaker Board

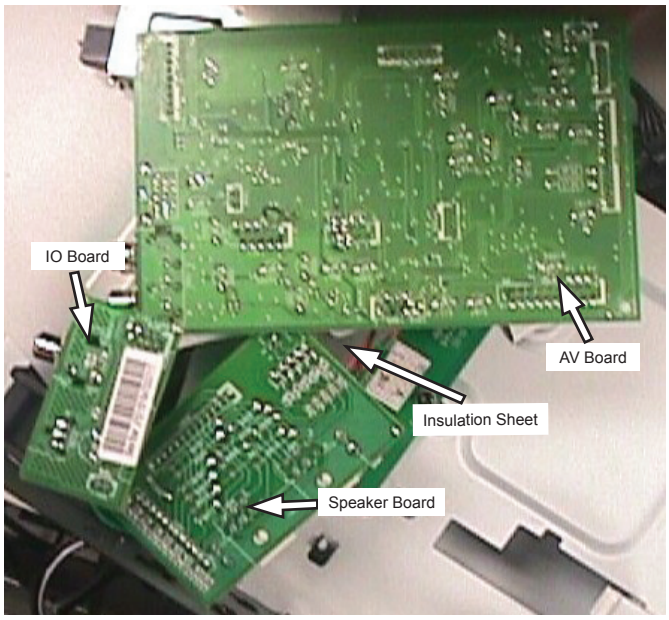


Figure 4-31
Power Box Service Position 5
Audio Board, IO Board and Speaker Board

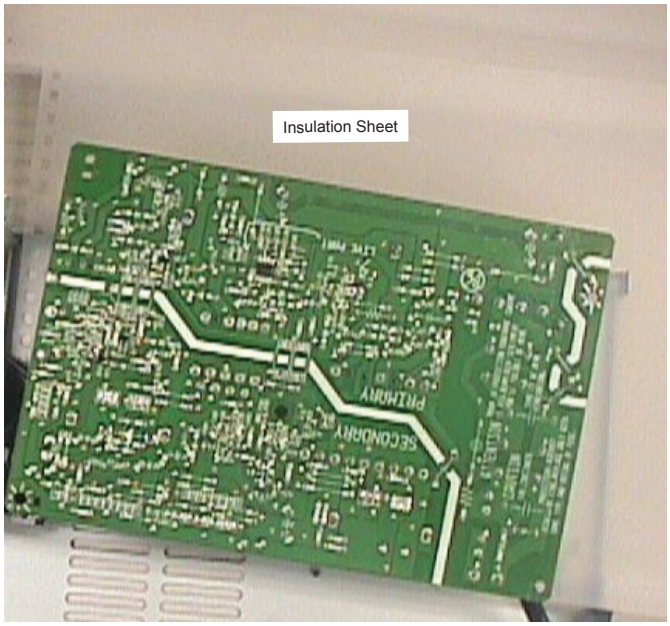
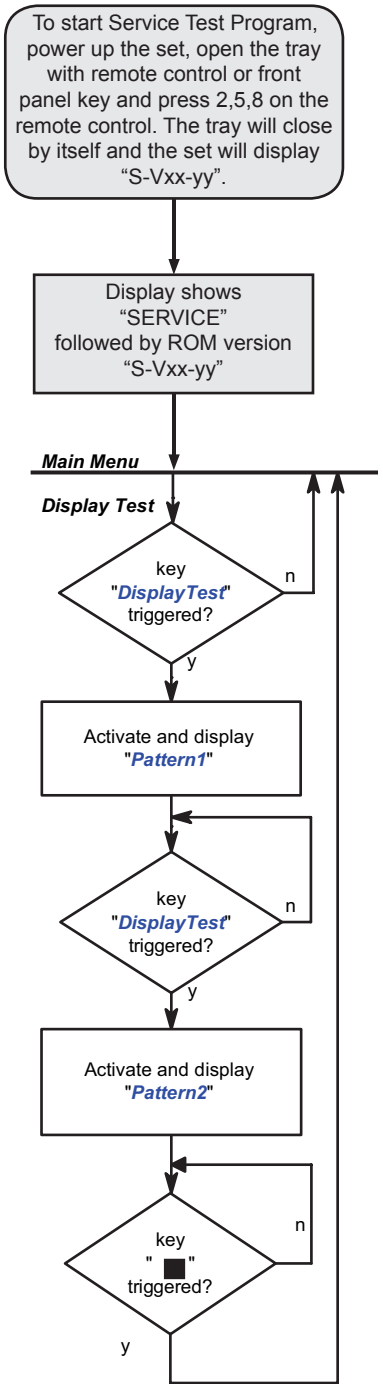


Figure 4-32
Power Box Service Position 6
PSU

5. Service Test Program



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)

5.1 Display Test

Purpose:
This test is used to check the driving circuits, the display and whether there are any short-circuits, open-circuits or any other defects.

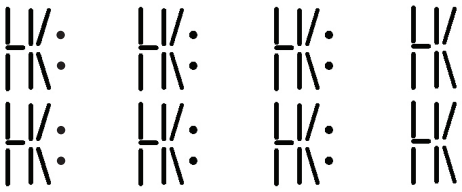
Display test key = ▶||

Player:

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

Pattern 1: *Default: All display control pins are ON. All LEDs are ON*
- to check the open-circuits

Pattern 2: *Alternate display control pins are on (Test Pattern: 0x55)*
- to check the short-circuits on Data port



5.1.1 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.

Model	Region	Region Code	TV Type
HTS8100/05/12	EU	2	PAL
HTS8100/37	NAFATA	1	NTSC
HTS8100/59	LATAM	4	NTSC
	APMEA	3	MULTI

To reprogram do as follows:
1) Power up the set and select DISC source.
2) Open the tray with remote control or front panel key.
3) Press the following buttons on the Remote Control:
   <9> <9> <9> <9> <AUDIO> <1> .....for HTS8100/05/12
   <9> <9> <9> <9> <AUDIO> <2> .....for HTS8100/37
   <9> <9> <9> <9> <AUDIO> <3> .....for HTS8100/59 LATAM
   <9> <9> <9> <9> <AUDIO> <4> .....for HTS8100/59 APMEA
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.)

5.1.2 Procedure to check software version

1) Power up the set and select DISC source.
2) Open the tray with remote control or front panel key.
3) Press "DISPLAY" button on the Remote control.
4) The TV screen will show:

SD9.2-Vxx 8100-zz dd
Servo:aaaaaaaa Reg:DD
Fyy Pbb lGcc

xx	=	BEA Software Version
zz	=	Stroke Version
dd	=	Default stroke version region
aaaaaaaa	=	Servo Software Version
DD	=	User set region
yy	=	Front Software Version
bb	=	Powerbox Module Software Version
cc	=	iGIS module Software Version

5.1.3 Burning of firmware

1. Unzip the zip-archive attached with this service information.
2. Start the CD burning software and create a new CD Project (Data disc) with the following settings:
   a. File System: ISO9660
   b. Format: MODE 2/XA
   c. Recording format: Single Session (Track at once), Finalized CD
3. Place the content of the zip-archive into the root directory of the new CD project.
4. Burn the data onto a blank CDR or CDRW.

Note: ISO9660 is mandatory, UDF discs are not supported! The final CDROM must not contain any other data except the file from the zip-archive.

5.1.4 Procedure to upgrade the firmware

1. Power up the set and open tray.
2. Insert the prepared Upgrade CDROM and close the tray.
3. The OSD will Display:

   "Upgrade file detected
   Important: Do not unplug or switch off this device during the upgrade
   File Copying->Upgrading"

4. The tray will then open to allow the upgrade disc to be taken out.
5. Take out the upgrade disc. It may take one or two minutes to complete the ERASE and WRITE processes.
6. When the upgrade process is successfully completed, the tray is pulled in and the set will go to normal mode automatically.

5.1.5 Procedure to check the firmware version to confirm upgrading

1. Power up the set and open tray.
2. Press the <DISPLAY> button on the Remote Control.
3. The firmware version will be displayed on the top left hand corner of the OSD.

5.1.6 Trade Mode

Trade mode is a feature that will block all set keys when enabled. It is for dealers to prevent customers fromremoving 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:

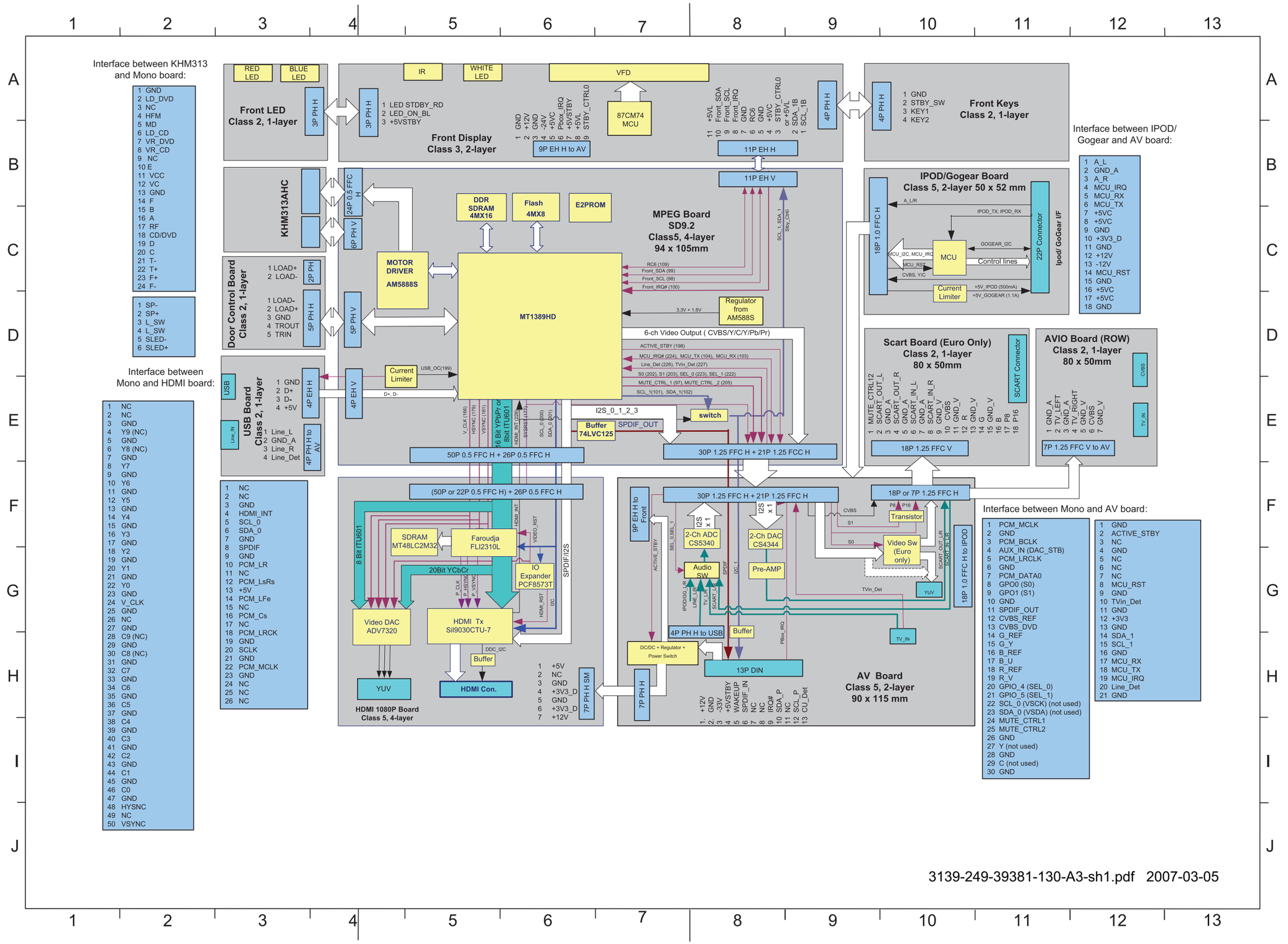
1) Power up the set and select DISC source.
2) Open tray by press and hold "STOP"button on the RC.
3) Then press buttons <2> <5> <9> on the RC.
4) The display shows **'TRA OFF'** and the tray will close.
Trade Mode is now disabled.

5.1.7 Procedure to change Tuner Grid (/59 only)

(not available for all versions). In some countries, the frequency step between adjacent channels in the (AM/ MW)/ FM band is 9 kHz/ 50 kHz (10 kHz/100 kHz in some areas).
Note: Changing the tuning grid erases all previously stored preset radio stations.

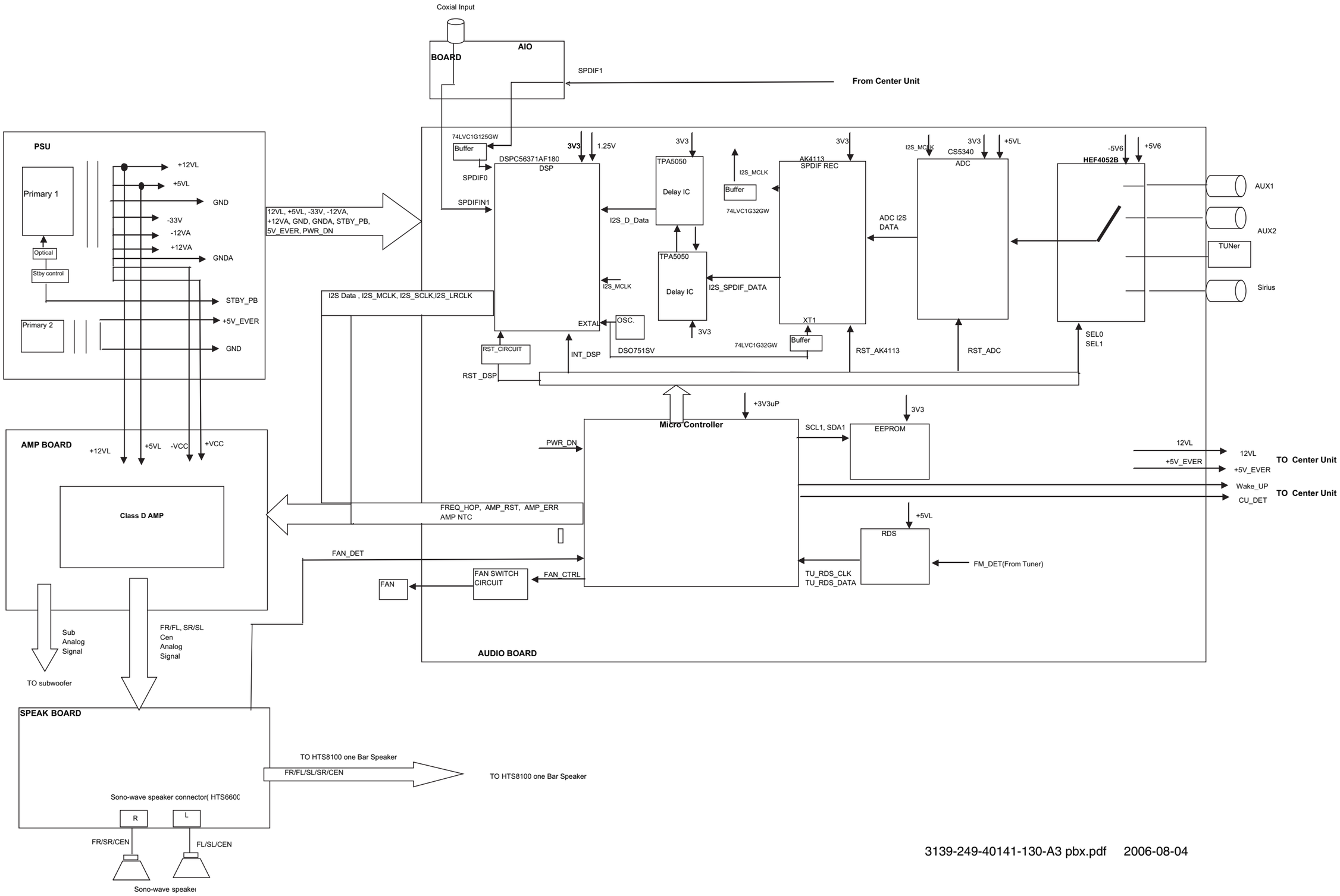
1) Press SOURCE repeatedly until 'RADIO FM' or 'RADIO AM/MW' appears.
2) Press "STANDBY-ON" to switch the main unit to standby mode.
3) Press "STANDBY-ON" again to power up.
4) Press ▶|| until 'GRID 9' or 'GRID 10' appears.

Main Unit Block Diagram

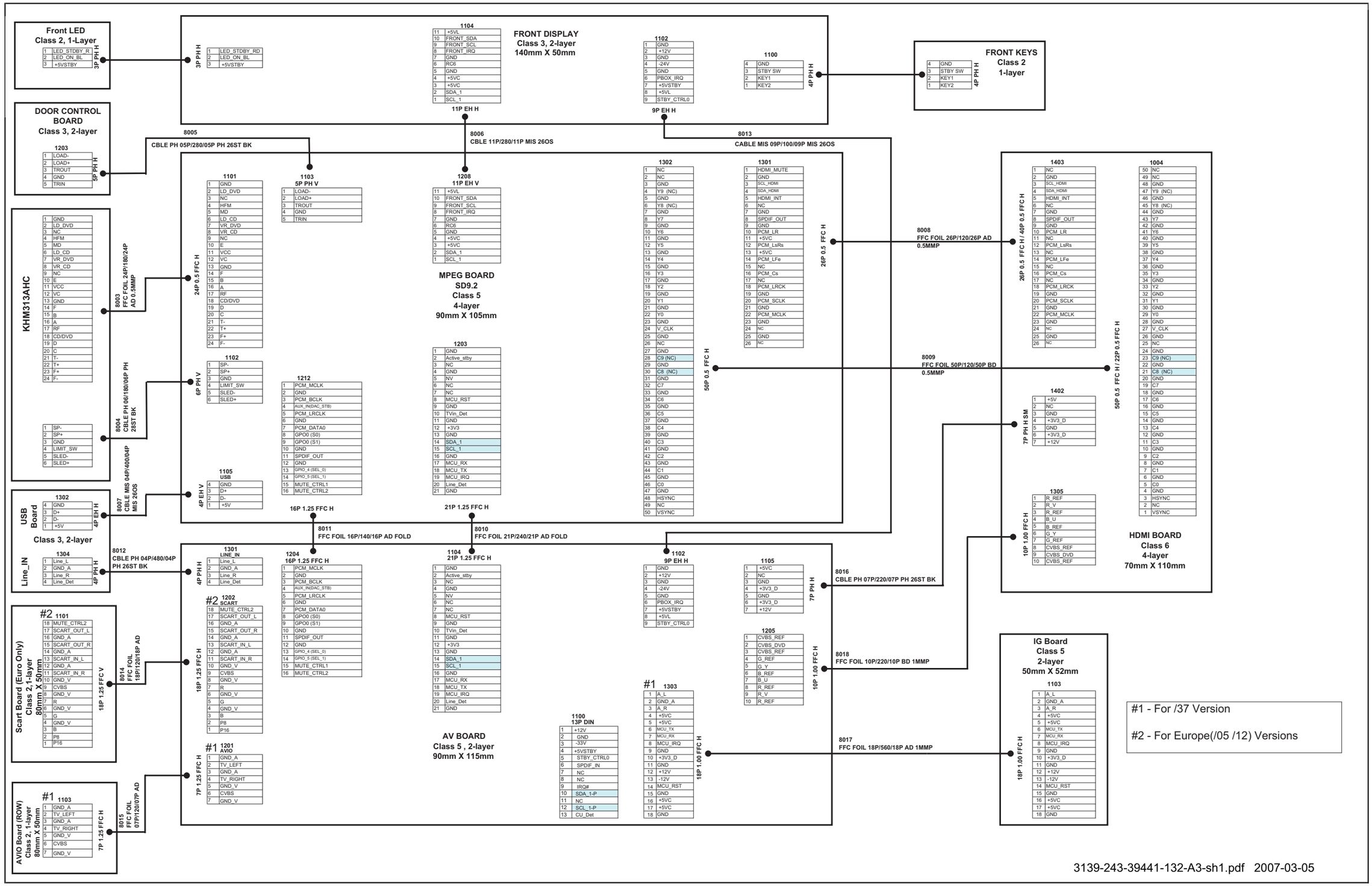


3139-249-39381-130-A3-sh1.pdf 2007-03-05

Power Box Block Diagram

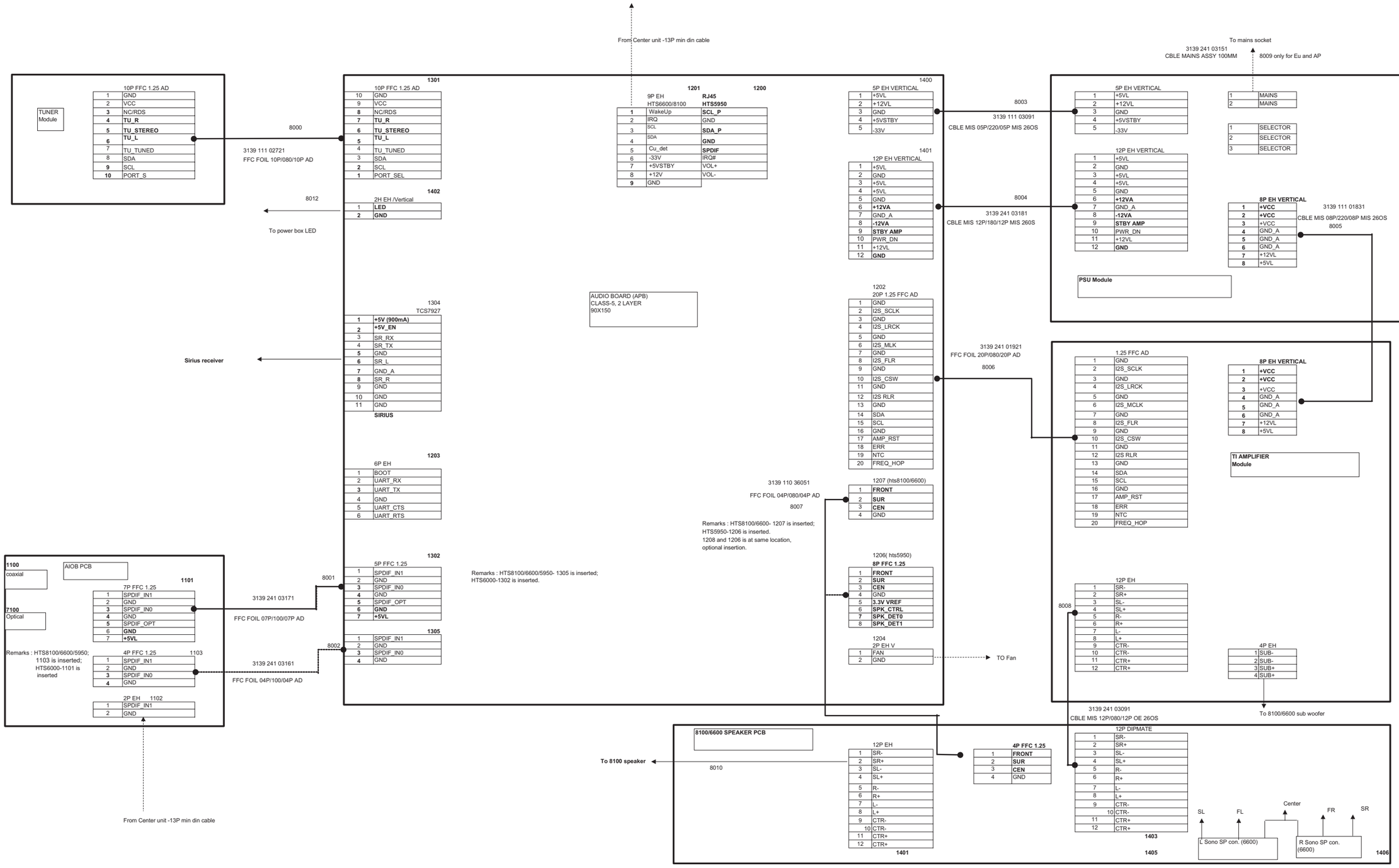


Main Unit Wiring Diagram

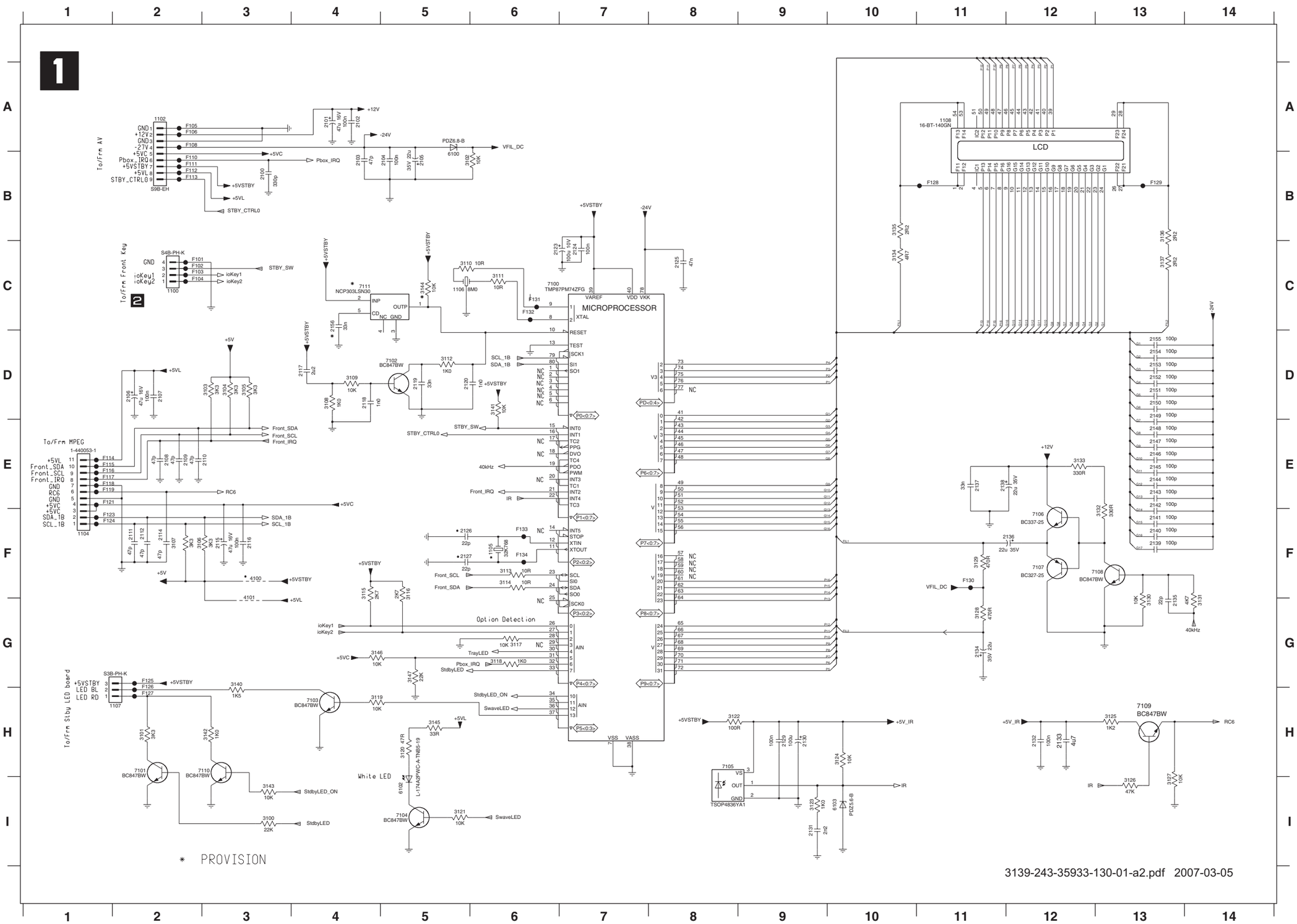


3139-243-39441-132-A3-sh1.pdf 2007-03-05

Power Box Wiring Diagram



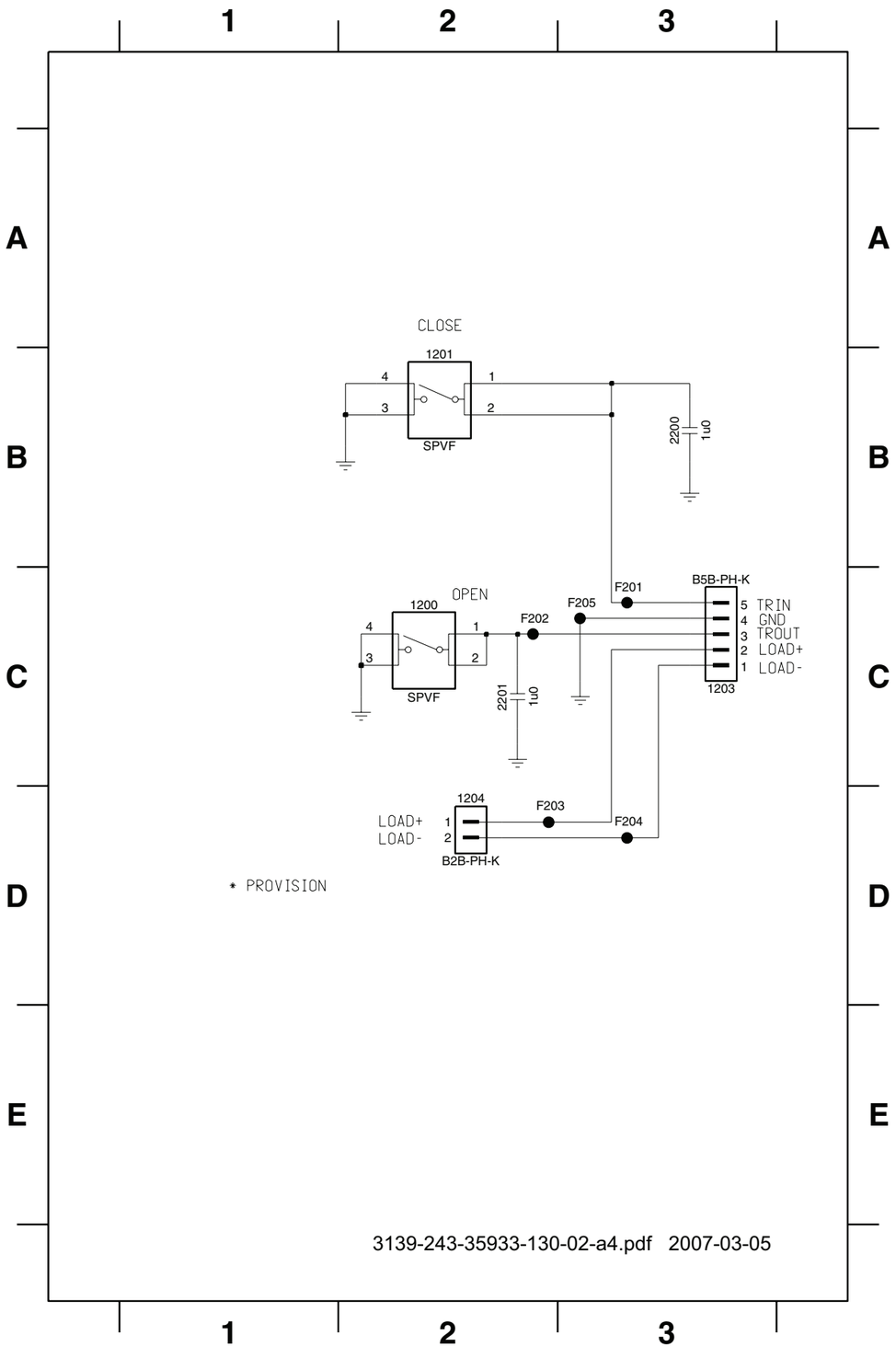
Main Unit
Front Board: Circuit Diagram (Part 1)



1100 C2
1102 A2
1104 F1
1105 F6
1106 C5
1107 H2
1108 A11
2100 B3
2101 A4
2102 A4
2103 B4
2104 B5
2105 B5
2106 D2
2107 D2
2108 E2
2109 E2
2110 E3
2111 F2
2112 F2
2114 F2
2115 F3
2116 F3
2117 D4
2118 D4
2119 D5
2120 D5
2123 C6
2124 C7
2125 C8
2126 F5
2127 F5
2129 H9
2130 H9
2131 I9
2132 H12
2133 H12
2134 G11
2135 G13
2136 F12
2137 E11
2138 E11
2139 F13
2140 F13
2141 F13
2142 E13
2143 E13
2144 E13
2145 E13
2146 E13
2147 E13
2148 E13
2149 D13
2150 D13
2151 D13
2152 D13
2153 D13
2154 D13
2155 D13
2156 C4
3100 I3
3101 H2
3102 B5
3103 D3
3104 D3
3105 D3
3106 F2
3107 F2
3108 D4
3109 D4
3110 C5
3111 C6
3112 D5
3113 F6
3114 F6
3115 F4
3116 F5
3117 G6
3118 G6
3119 H4
3120 H5
3121 I5
3122 H8
3123 I9
3124 H10
3125 H13
3126 I13
3127 I13
3128 G11
3129 F11
3130 G13
3131 G14
3132 F13
3133 E12
3134 C10
3135 B10
3136 B13
3137 C13
3140 G3
3141 D6
3142 H3
3143 I3
3144 C5
3145 H5
3146 G4
3147 G5
4100 F3
4101 G3
6100 B5
6102 I5
6103 I10
7100 C6
7101 H2
7102 D5
7103 H4
7104 I5
7105 H8
7106 F12
7107 F12
7108 F13
7109 H13
7110 H3
7111 C4
F101 C2
F102 C2
F103 C2
F104 C2
F105 A2
F106 A2
F108 A2
F110 B2
F111 B2
F112 B2
F113 B2
F114 E1
F115 E1
F116 E1
F117 E1
F118 E1
F119 E1
F121 E1
F123 F1
F124 F1
F125 G2
F126 H2
F127 H2
F128 B11
F129 B13
F130 F11
F131 C6
F132 C6
F133 F6
F134 F6

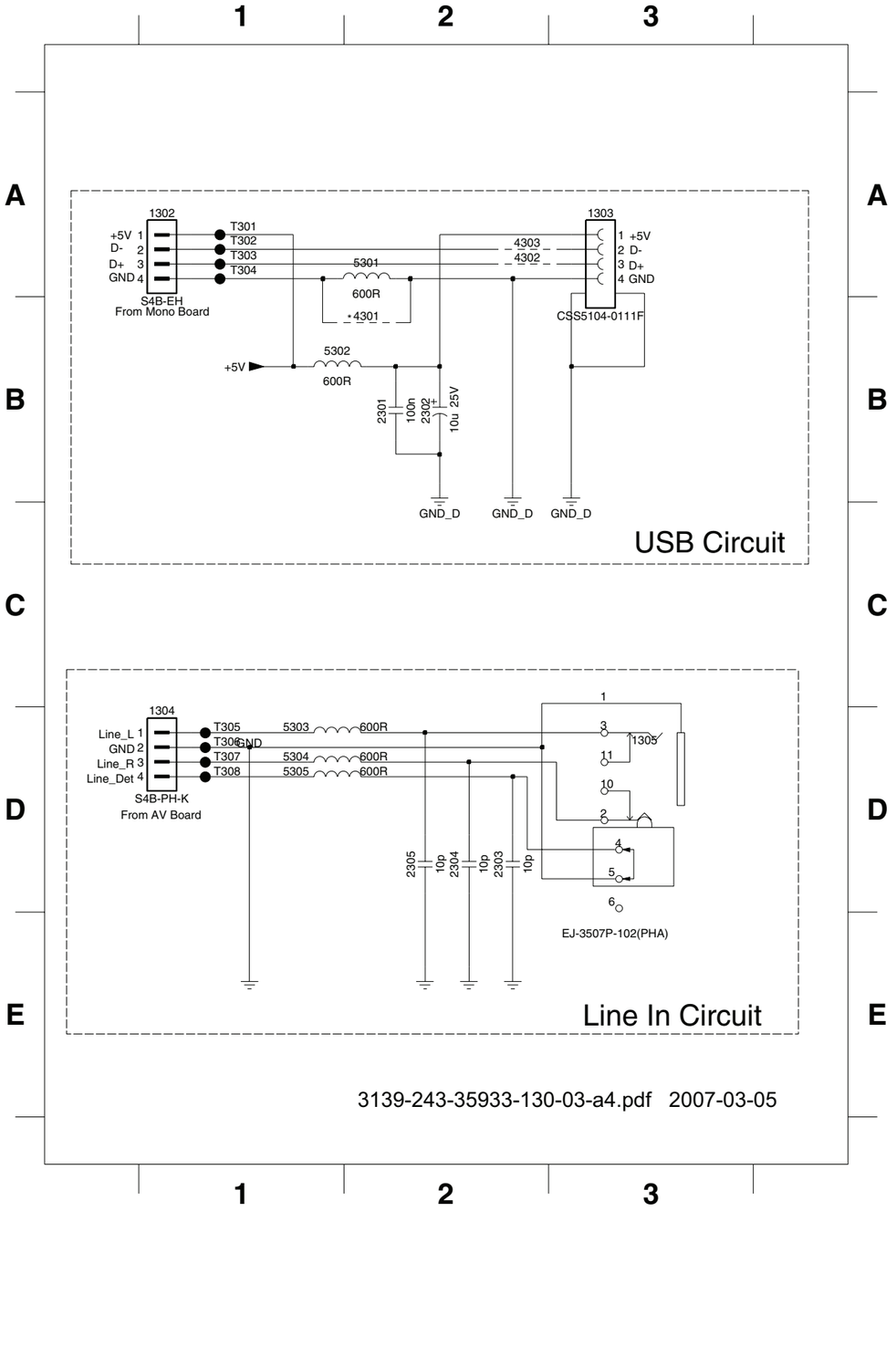
Front Board: Circuit Diagram

1200 C2
1201 B2
1203 C3
1204 D2
2200 B3
2201 C2
F201 C3
F202 C2
F203 D2
F204 D3
F205 C3



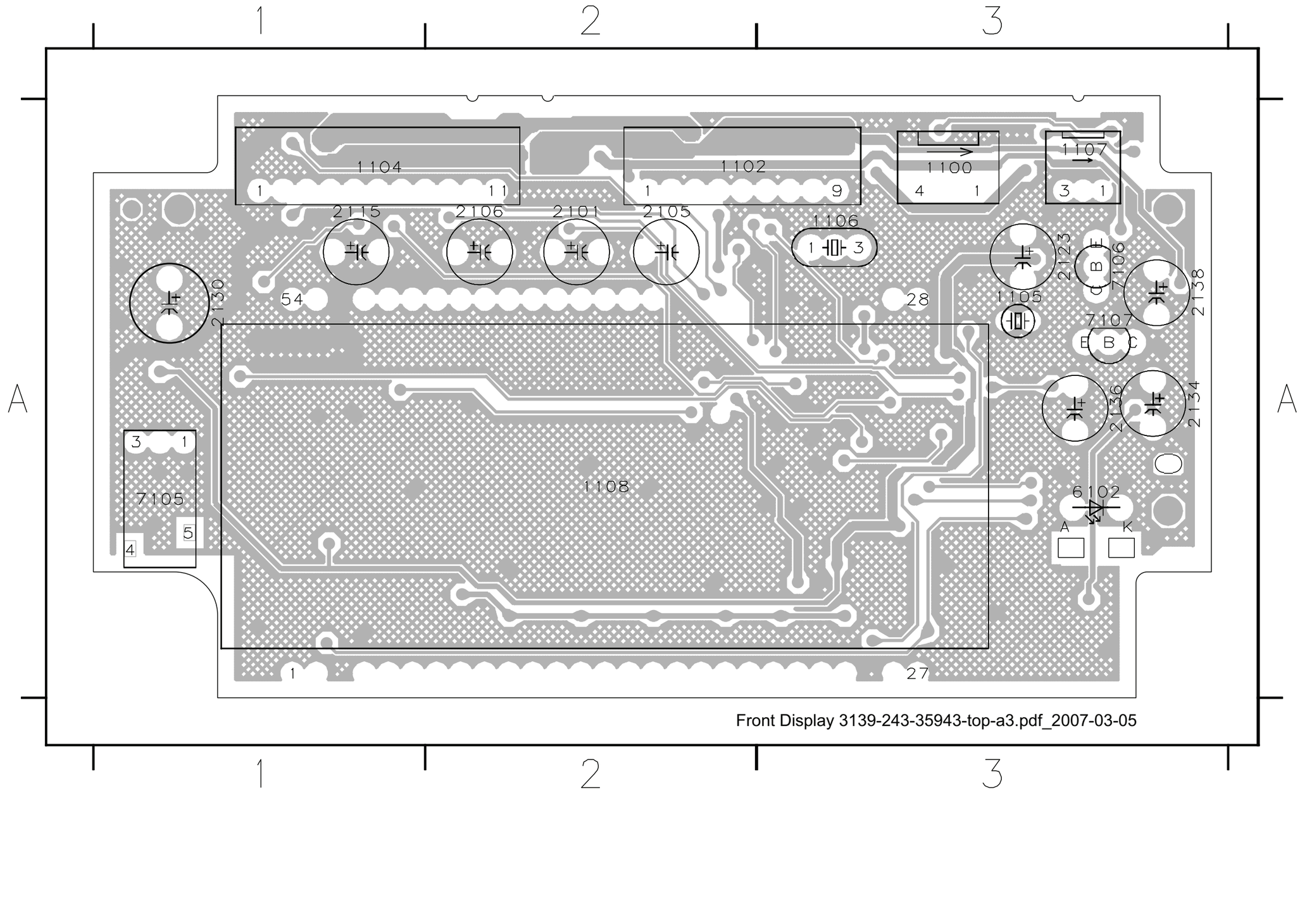
3139-243-35933-130-02-a4.pdf 2007-03-05

1302 A1
1303 A3
1304 D1
1305 D3
2301 B2
2302 B2
2303 D2
2304 D2
2305 D2
4301 B2
4302 A2
4303 A2
5301 A2
5302 B1
5303 D1
5304 D1
5305 D1
T301 A1
T302 A1
T303 A1
T304 A1
T305 D1
T306 D1
T307 D1
T308 D1



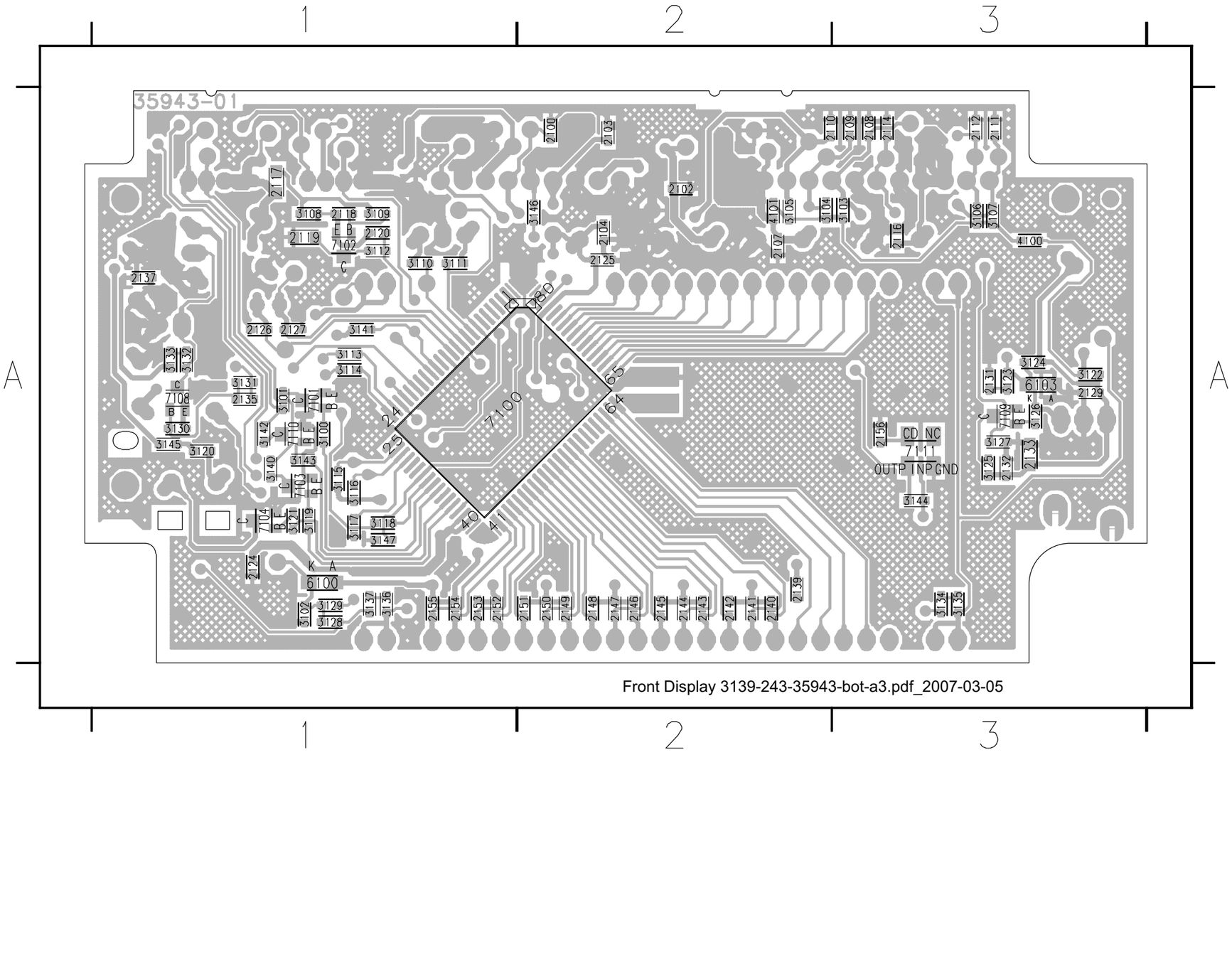
3139-243-35933-130-03-a4.pdf 2007-03-05

Front Board
PWB Layout: Front Display (Top view)



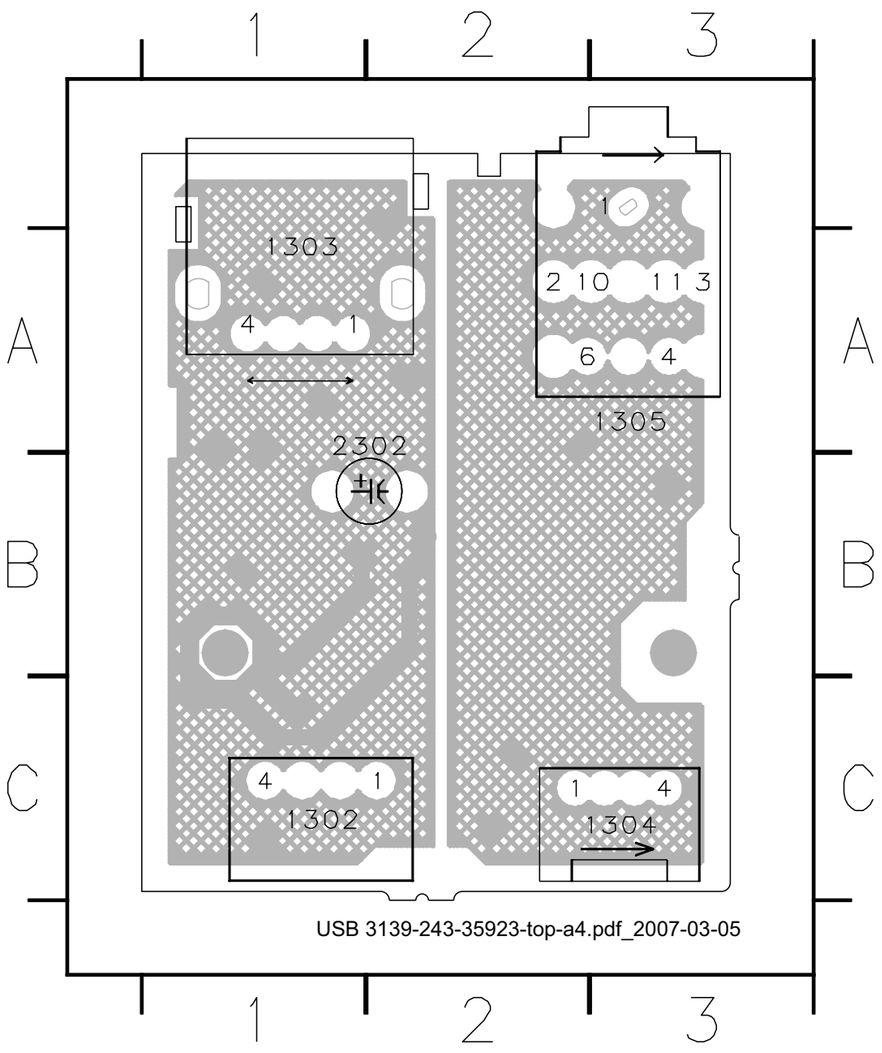
Front Display 3139-243-35943-top-a3.pdf_2007-03-05

Front Board
PWB Layout: Front Display (Bottom view)



2100	A2	2156	A3	3144	A3
2102	A2	3100	A1	3145	A1
2103	A2	3101	A1	3146	A2
2104	A2	3102	A1	3147	A1
2107	A2	3103	A3	4100	A3
2108	A3	3104	A2	4101	A2
2109	A3	3105	A2	6100	A1
2110	A2	3106	A3	6103	A3
2111	A3	3107	A3	7100	A1
2112	A3	3108	A1	7101	A1
2114	A3	3109	A1	7102	A1
2116	A3	3110	A1	7103	A1
2117	A1	3111	A1	7104	A1
2118	A1	3112	A1	7108	A1
2119	A1	3113	A1	7109	A3
2120	A1	3114	A1	7110	A1
2124	A1	3115	A1	7111	A3
2125	A2	3116	A1		
2126	A1	3117	A1		
2127	A1	3118	A1		
2129	A3	3119	A1		
2131	A3	3120	A1		
2132	A3	3121	A1		
2133	A3	3122	A3		
2135	A1	3123	A3		
2137	A1	3124	A3		
2139	A2	3125	A3		
2140	A2	3126	A3		
2141	A2	3127	A3		
2142	A2	3128	A1		
2143	A2	3129	A1		
2144	A2	3130	A1		
2145	A2	3131	A1		
2146	A2	3132	A1		
2147	A2	3133	A1		
2148	A2	3134	A3		
2149	A2	3135	A3		
2150	A2	3136	A1		
2151	A2	3137	A1		
2152	A1	3140	A1		
2153	A1	3141	A1		
2154	A1	3142	A1		
2155	A1	3143	A1		

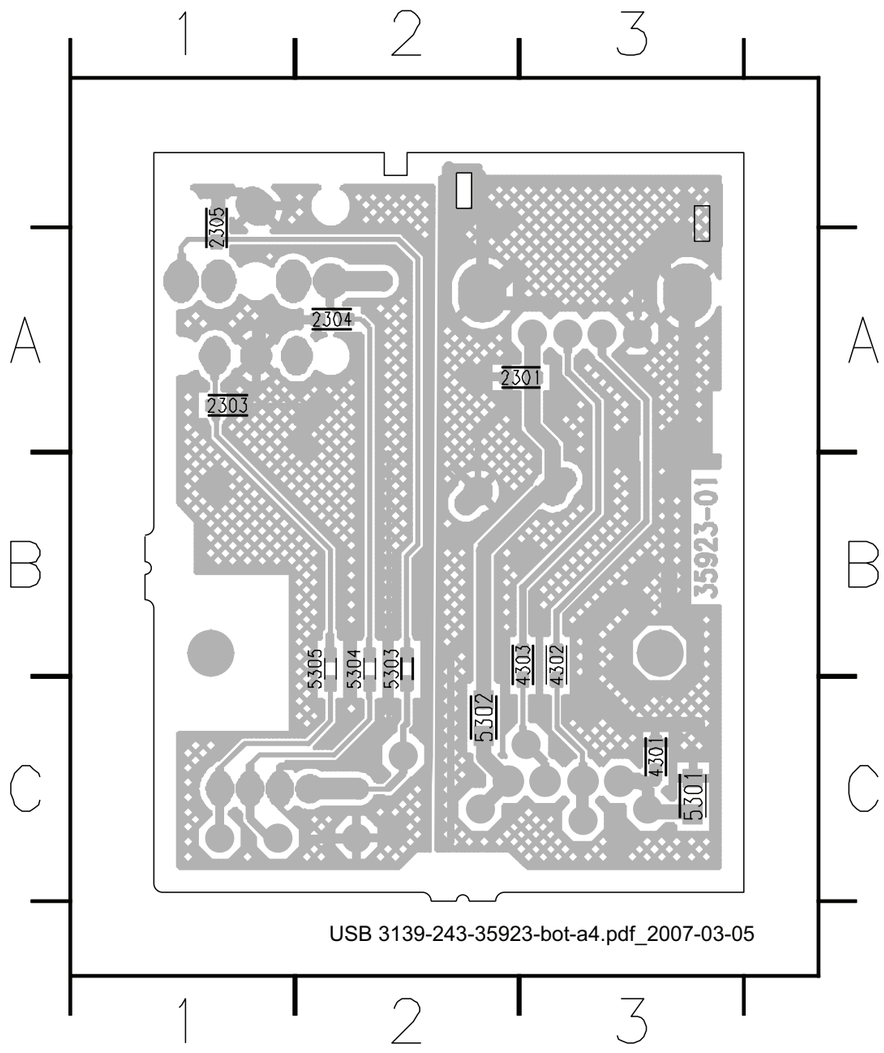
Front Board
PWB Layout: USB (Top view)



1302 C1
1303 A1
1304 C3
1305 A3
2302 A2

USB 3139-243-35923-top-a4.pdf_2007-03-05

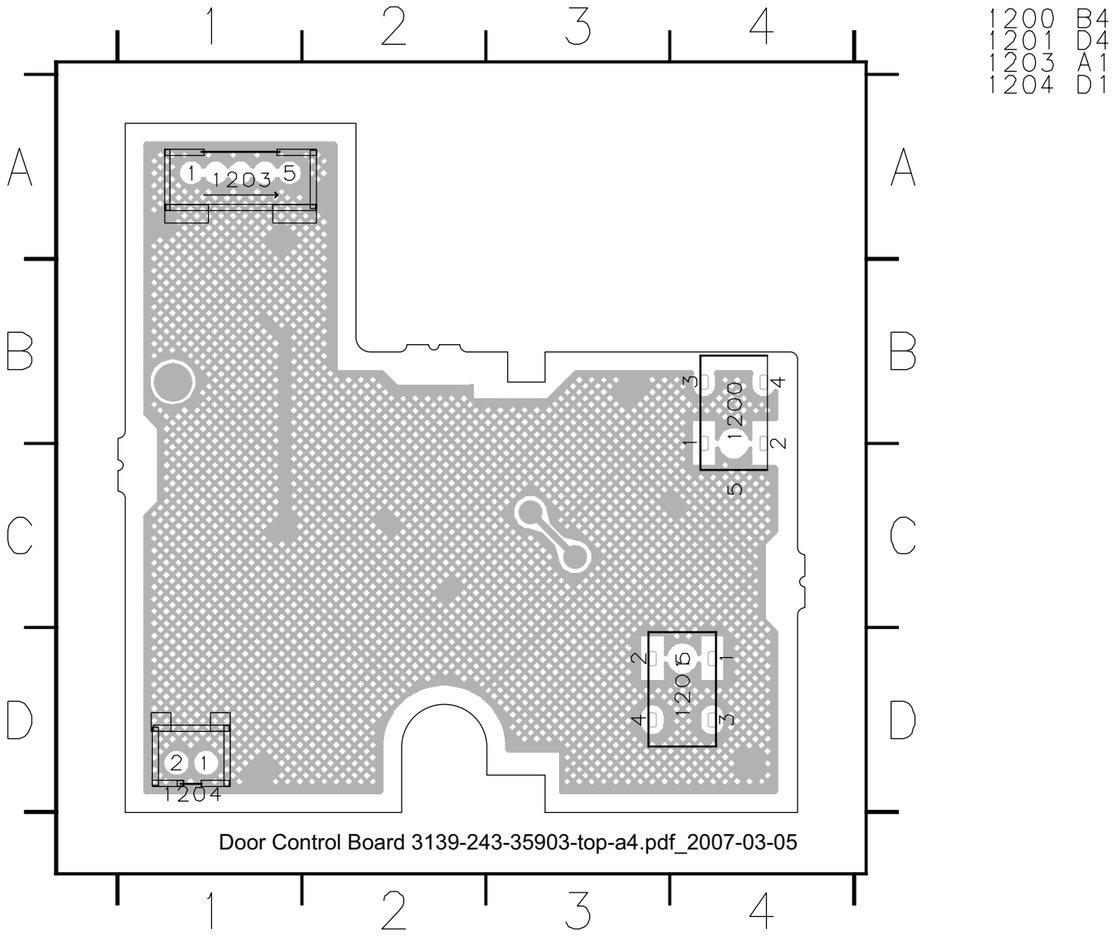
Front Board
PWB Layout: USB (Bottom view)



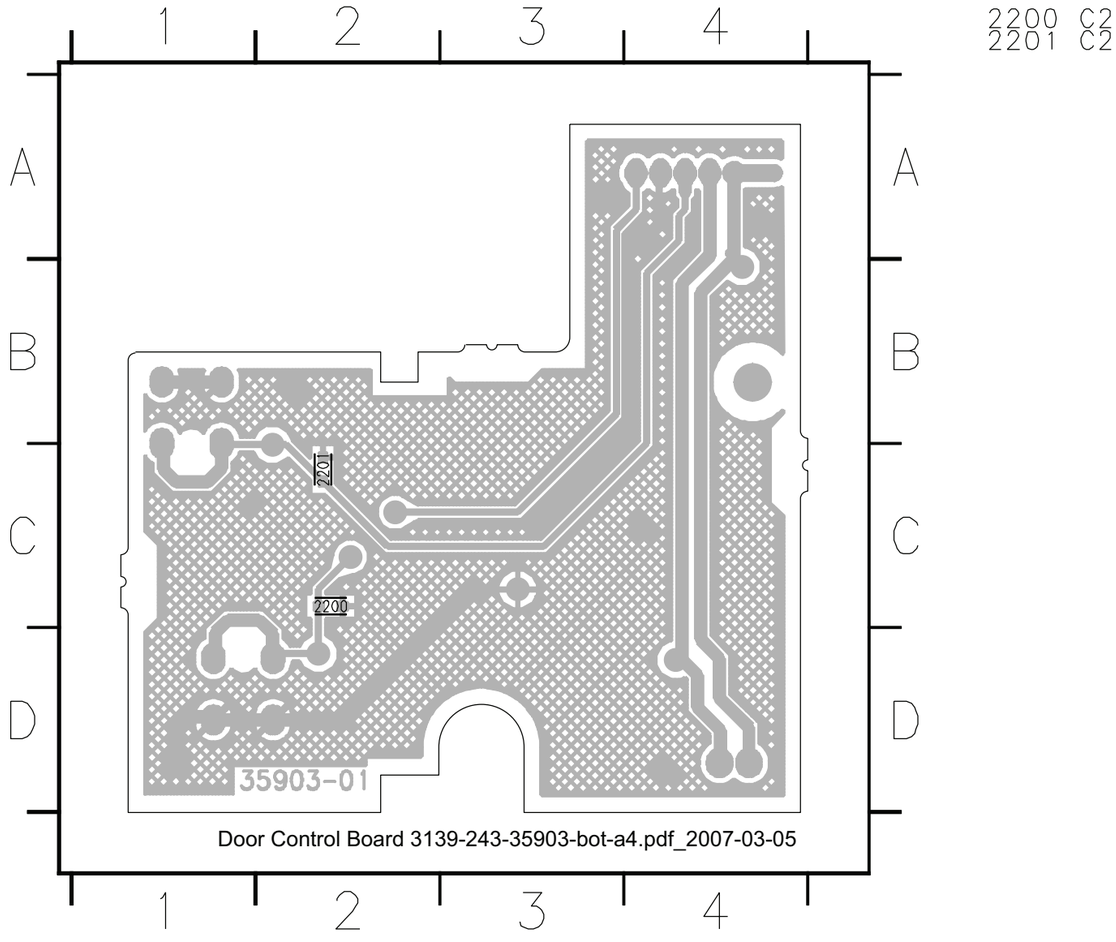
2301 A3
2303 A1
2304 A2
2305 A1
4301 C3
4302 B3
4303 B3
5301 C3
5302 C2
5303 B2
5304 B2
5305 B2

USB 3139-243-35923-bot-a4.pdf_2007-03-05

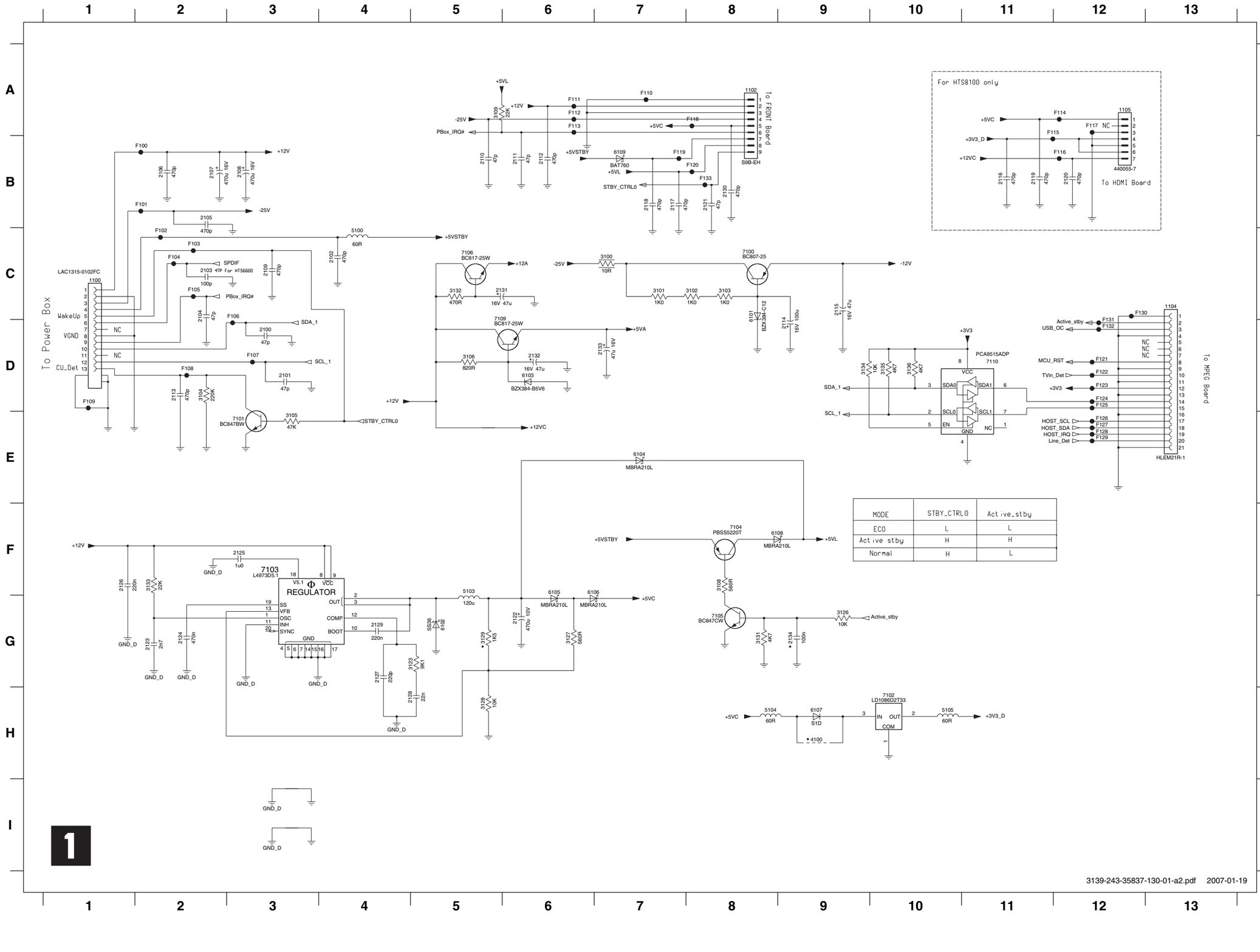
Front Board
PWB Layout: Door Control Board (Top view)



Front Board
PWB Layout: Door Control Board (Bottom view)



AV Board: Circuit Diagram (Part 1)

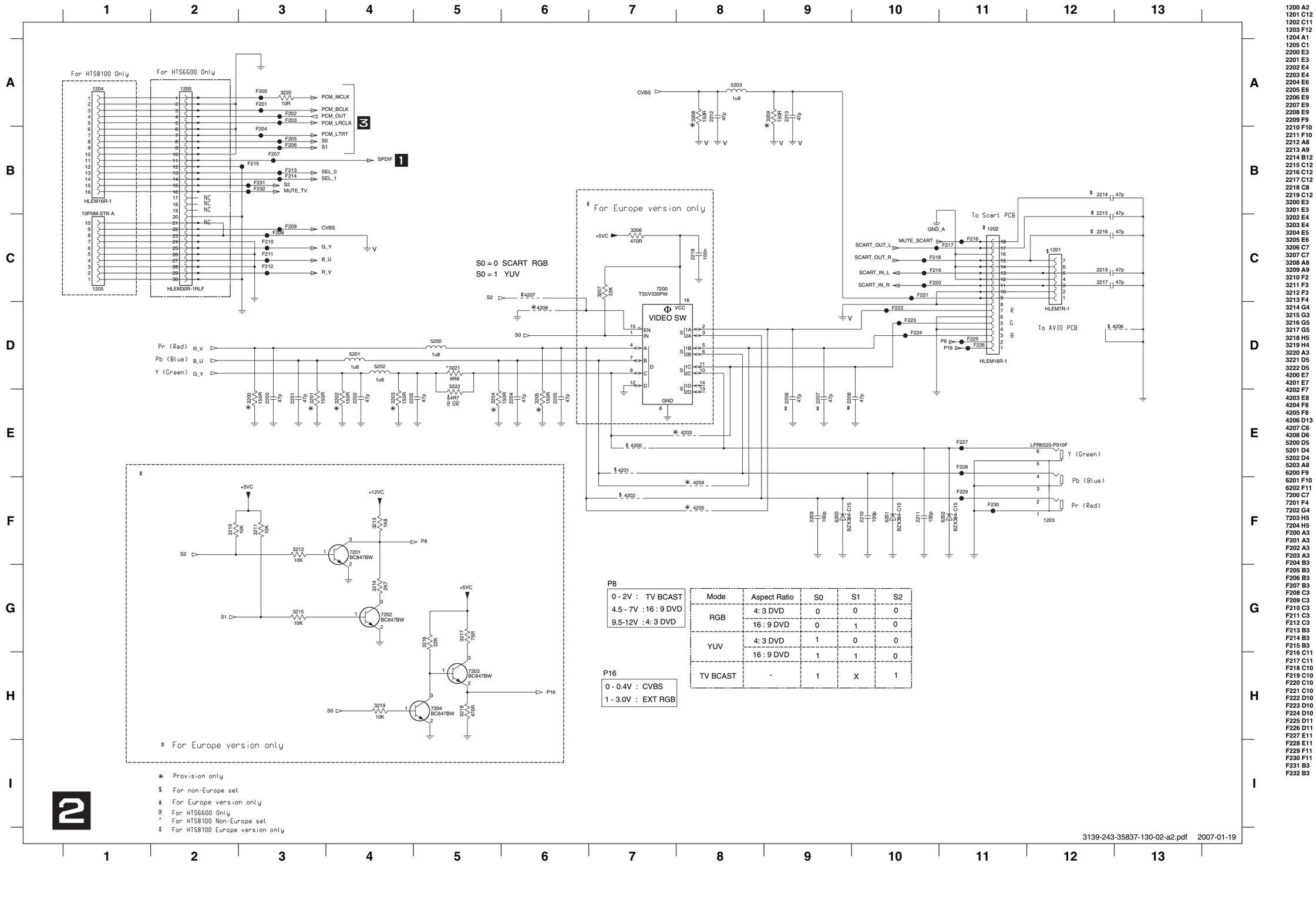


MODE	STBY_CTRL0	Active_stby
ECO	L	L
Active stby	H	H
Normal	H	L

3139-243-35837-130-01-a2.pdf 2007-01-19

1100 C1 F131 D12
1102 A8 F132 D12
1104 C13 F133 B8
1105 A12
2100 D3
2101 D3
2102 C4
2103 C2
2104 C2
2105 B2
2106 B2
2107 B2
2108 B3
2109 C3
2110 B5
2111 B6
2112 B6
2113 D2
2114 D9
2115 C9
2116 B11
2117 B7
2118 B7
2119 B11
2120 B12
2121 B8
2122 G6
2123 G2
2124 G2
2125 F3
2126 F1
2127 G4
2128 H5
2129 G4
2130 B8
2131 C5
2132 D6
2133 D7
2134 G9
3100 C7
3101 C7
3102 C8
3103 C8
3104 D2
3105 E3
3106 D5
3108 F8
3109 A5
3123 G5
3126 G9
3127 G6
3128 H5
3129 G5
3131 G8
3132 C5
3133 F2
3134 D9
3135 D10
3136 D10
4100 H9
5100 C4
5103 F5
5104 H8
5105 H10
6101 C8
6102 G5
6103 D6
6104 E7
6105 F6
6106 F6
6107 H9
6108 F8
6109 B7
7100 C8
7101 E3
7102 H10
7103 F3
7104 F8
7105 G8
7106 C5
7109 D5
7110 D11
F100 B2
F101 B2
F102 C2
F103 C2
F104 C2
F105 C2
F106 C3
F107 D3
F108 D2
F109 D1
F110 A7
F111 A6
F112 A6
F113 A6
F114 A12
F115 A11
F116 B12
F117 A12
F118 A8
F119 B7
F120 B8
F121 D12
F122 D12
F123 D12
F124 D12
F125 D12
F126 E12
F127 E12
F128 E12
F129 E12
F130 C12

AV Board: Circuit Diagram (Part 2)



P8

0 - 2V : TV BCAST
4.5 - 7V : 16 : 9 DVD
9.5-12V : 4: 3 DVD

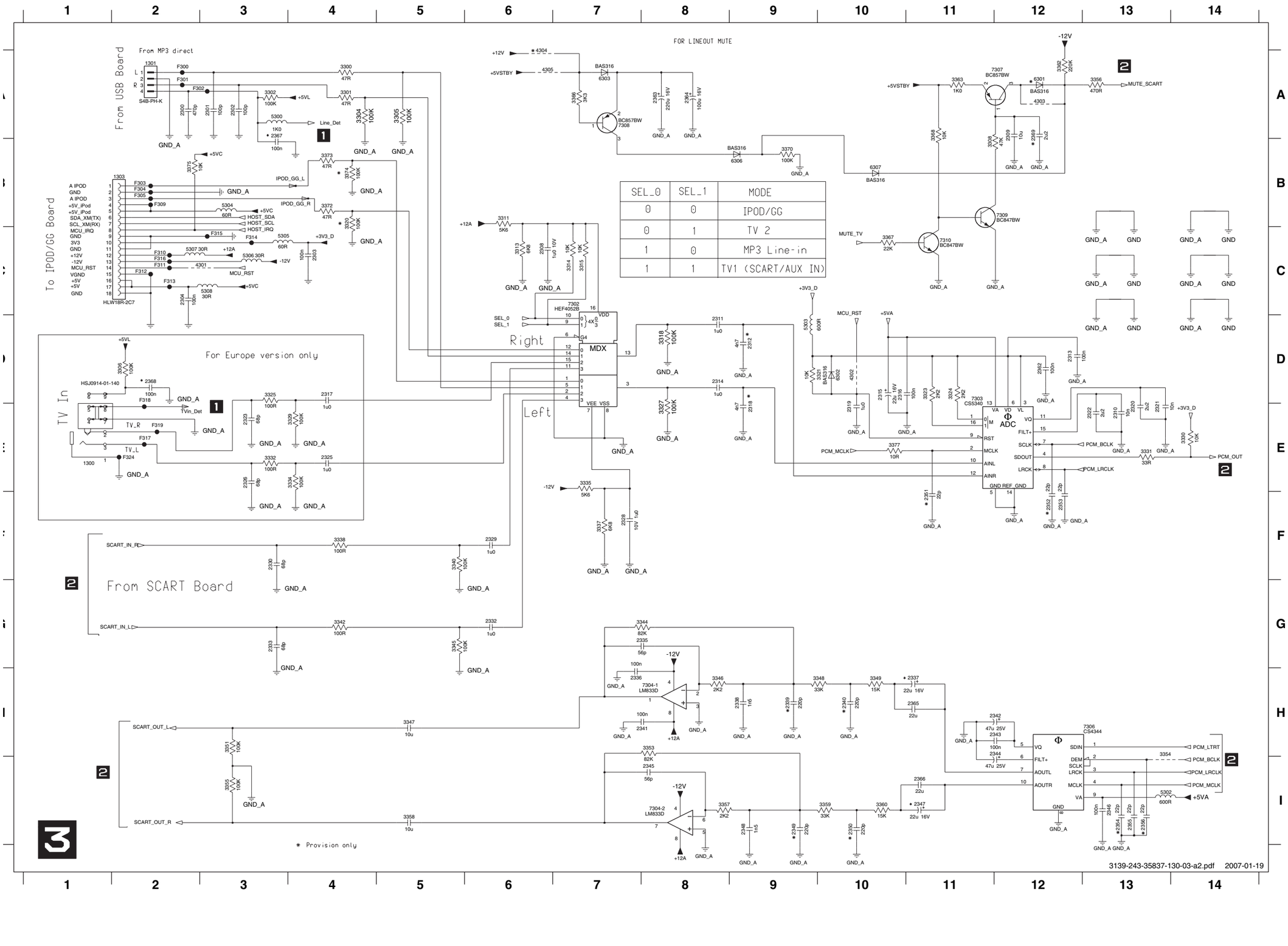
P16

0 - 0.4V : CVBS
1 - 3.0V : EXT RGB

Mode	Aspect Ratio	S0	S1	S2
RGB	4: 3 DVD	0	0	0
	16 : 9 DVD	0	1	0
YUV	4: 3 DVD	1	0	0
	16 : 9 DVD	1	1	0
TV BCAST	-	1	X	1

1200 A2
1201 C12
1202 C11
1203 F12
1204 A1
1205 C1
2200 E3
2201 E3
2202 E4
2203 E4
2204 E6
2205 E6
2206 E9
2207 E9
2208 E9
2209 F9
2210 F10
2211 F10
2212 A8
2213 A9
2214 B12
2215 C12
2216 C12
2217 C12
2218 C8
2219 C12
3200 E3
3201 E3
3202 E4
3203 E4
3204 E5
3205 E6
3206 C7
3207 C7
3208 A8
3209 A9
3210 F2
3211 F3
3212 F3
3213 F4
3214 G4
3215 G3
3216 G5
3217 G5
3218 H5
3219 H4
3220 A3
3221 D5
3222 D5
4200 E7
4201 E7
4202 F7
4203 E8
4204 F8
4205 F8
4206 D13
4207 C6
4208 D6
5200 D5
5201 D4
5202 D4
5203 A8
6200 F9
6201 F10
6202 F11
7200 C7
7201 F4
7202 G4
7203 H5
7204 H5
F200 A3
F201 A3
F202 A3
F203 A3
F204 B3
F205 B3
F206 B3
F207 B3
F208 C3
F209 C3
F210 C3
F211 C3
F212 C3
F213 B3
F214 B3
F215 B3
F216 C11
F217 C11
F218 C10
F219 C10
F220 C10
F221 C10
F222 D10
F223 D10
F224 D10
F225 D11
F226 D11
F227 E11
F228 E11
F229 F11
F230 F11
F231 B3
F232 B3

AV Board: Circuit Diagram (Part 3)

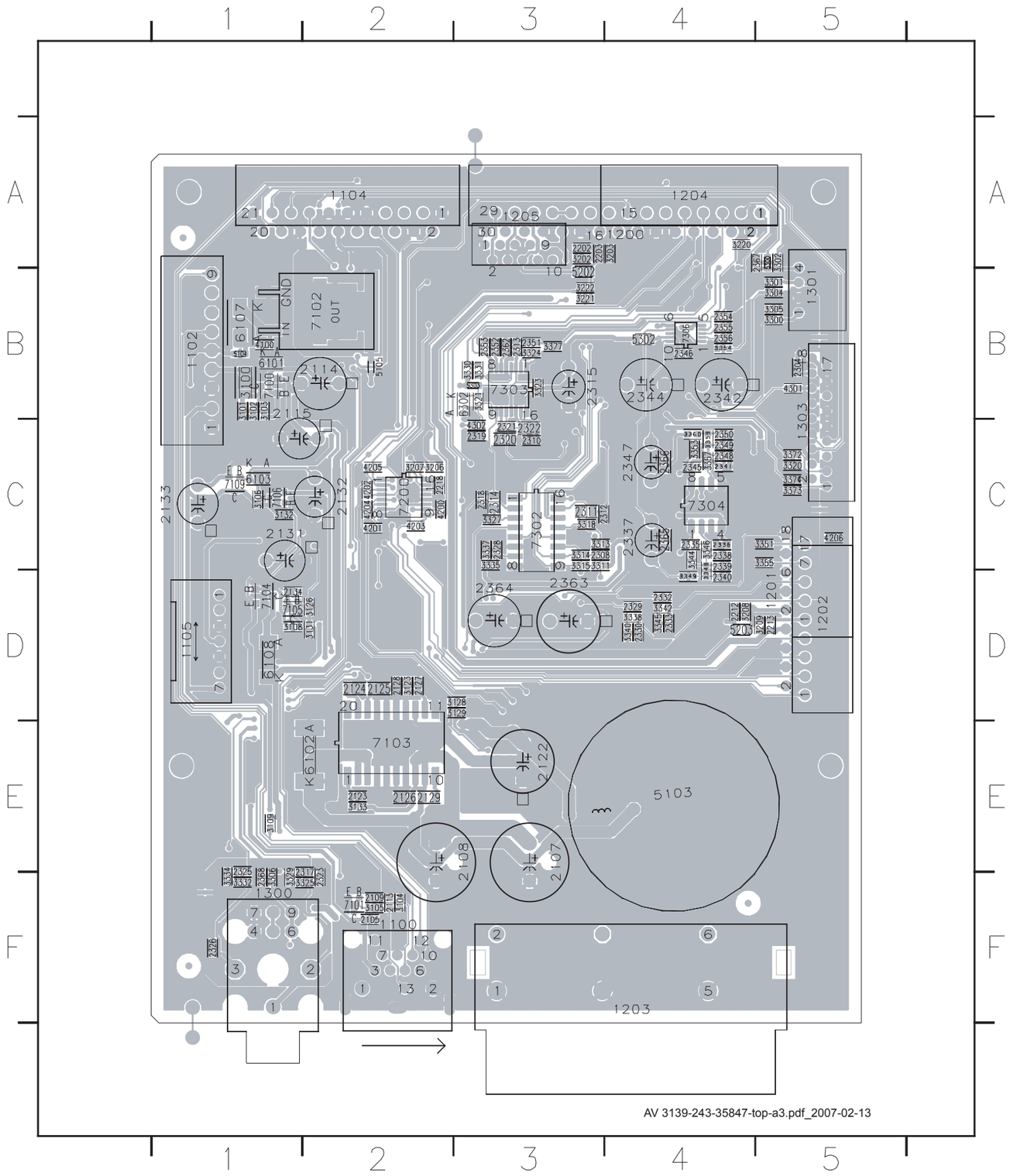


SEL_0	SEL_1	MODE
0	0	IPOD/GG
0	1	TV 2
1	0	MP3 Line-in
1	1	TV1 (SCART/AUX IN)

3139-243-35837-130-03-a2.pdf 2007-01-19

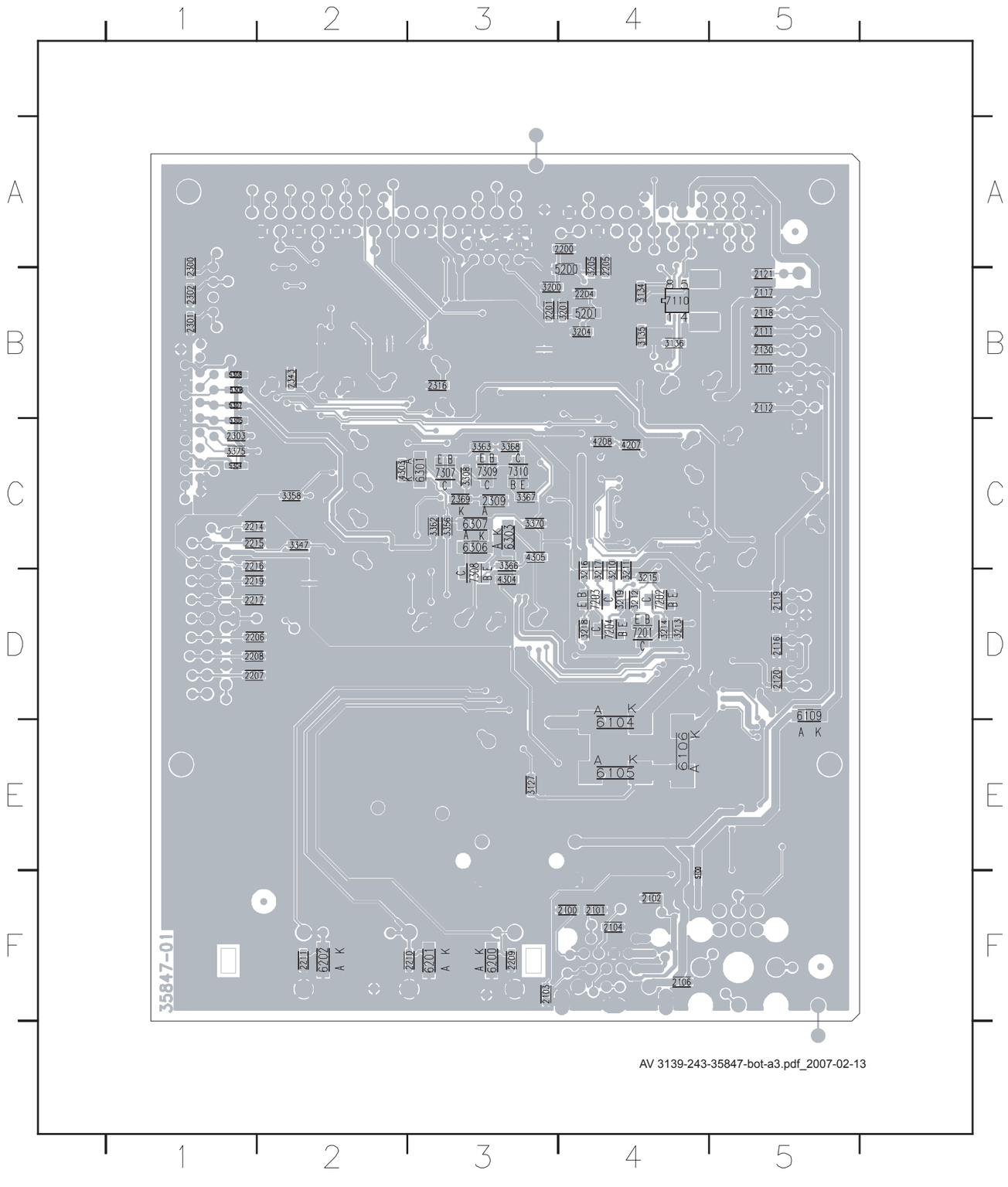
1300	E1
1301	A2
1303	B2
2300	A2
2301	A3
2302	A3
2303	C4
2304	C2
2308	C6
2309	A12
2310	E13
2311	D8
2312	D9
2313	D12
2314	D8
2315	D10
2316	D10
2317	D4
2318	E9
2319	E10
2320	E13
2321	E13
2322	E13
2323	E3
2325	E4
2326	E3
2328	F7
2329	F6
2330	F3
2332	G6
2333	G3
2335	G8
2336	H7
2337	H11
2338	H9
2339	H9
2340	H10
2341	H8
2342	H12
2343	H12
2344	H12
2345	I8
2346	I13
2347	I11
2348	I9
2349	I9
2350	I10
2351	F11
2352	F12
2353	F12
2354	I13
2355	I13
2356	I13
2362	D12
2363	A8
2364	A8
2365	H11
2366	I11
2367	A3
2368	D2
2369	A12
3300	A4
3301	A4
3302	A3
3304	A4
3305	A5
3306	D2
3308	B11
3311	B6
3313	C6
3314	C7
3315	C7
3318	D8
3320	B4
3321	D10
3323	D11
3324	D11
3325	D3
3327	E8
3329	E4
3330	E14
3331	E13
3332	E3
3334	E4
3335	E7
3337	F7
3338	F4
3340	F5
3342	G4
3344	G8
3345	G5
3346	H8
3347	H5
3348	H10
3349	H10
3351	H3
3353	H8
3354	H13
3355	I3
3356	A13
3357	I8
3358	I5
3359	I10
3360	I10
3362	A12
3363	A11
3366	A7
3367	C10
3368	A11
3370	B9
3372	B4
3373	B4
3374	B4
3375	B2
3377	E1
4301	C
4302	D1
4303	A1
4304	A
4305	A
5300	A
5302	I1
5303	D
5304	B
5305	C
5306	C
5307	C
5308	C
6301	A1
6302	D1
6303	A
6306	B
6307	B1
7302	C
7303	D1
7304-1	
7304-2	
7306	H1
7307	A1
7308	A
7309	B1
7310	C1
F300	A
F301	A
F302	A
F303	B
F304	B
F305	B
F309	B
F310	C
F311	C
F312	C
F313	C
F314	C
F315	C
F316	C
F317	E
F318	D
F319	E
F324	E

PWB Layout: AV Board (Top view)



1100	F2	2365	C4	5104	B1
1102	B1	2366	C4	5105	B2
1104	A2	2367	A5	5202	B3
1105	D1	2368	F1	5203	D4
1200	A4	3100	B1	5300	A5
1201	D5	3101	B1	5302	B4
1202	D5	3102	B1	5303	B3
1203	F4	3103	B1	6101	B1
1204	A4	3104	F2	6102	E2
1205	A3	3105	F2	6103	C1
1300	F1	3106	C1	6107	B1
1301	B5	3108	D1	6108	D1
1303	C5	3109	E1	6302	B3
2105	F2	3123	D2	7100	B1
2107	E3	3126	D2	7101	F2
2108	E3	3128	D3	7102	B2
2109	F2	3129	D3	7103	E2
2113	F2	3131	D2	7104	D1
2114	B2	3132	C1	7105	D1
2115	B1	3133	E2	7106	C1
2122	E3	3202	A3	7109	C1
2123	E2	3203	A4	7200	C2
2124	D2	3206	C2	7302	C3
2125	D2	3207	C2	7303	B3
2126	E2	3208	D4	7304	C4
2127	D2	3209	D5	7306	B4
2128	D2	3220	A4		
2129	E2	3221	B3		
2131	C1	3222	B3		
2132	C2	3300	B5		
2133	C1	3301	B5		
2134	D1	3302	A5		
2202	A3	3304	B5		
2203	A3	3305	B5		
2212	D4	3306	F1		
2213	D5	3311	C3		
2218	C2	3313	C3		
2304	B5	3314	C3		
2308	C3	3315	C3		
2310	C3	3318	C3		
2311	C3	3320	C5		
2312	C3	3321	B3		
2313	B3	3323	B3		
2314	C3	3324	B3		
2315	B3	3325	F2		
2317	F2	3327	C3		
2318	C3	3329	F1		
2319	C3	3330	B3		
2320	C3	3331	B3		
2321	C3	3332	F1		
2322	C3	3334	F1		
2323	F2	3335	C3		
2325	E1	3337	C3		
2326	F1	3338	D4		
2328	C3	3340	D4		
2329	D4	3342	D4		
2330	D4	3344	C4		
2332	D4	3345	D4		
2333	D4	3346	C4		
2335	C4	3348	D4		
2336	C4	3349	D4		
2337	C4	3351	C5		
2338	C4	3353	C4		
2339	C4	3354	B4		
2340	D4	3355	C5		
2341	C4	3357	C4		
2342	B4	3359	C4		
2344	B4	3360	C4		
2345	C4	3372	C5		
2346	B4	3373	C5		
2347	C4	3374	C5		
2348	C4	3377	B3		
2349	C4	4100	B1		
2350	C4	4200	C2		
2351	B3	4201	C2		
2352	B3	4202	C2		
2353	B3	4203	C2		
2354	B4	4204	C2		
2355	B4	4205	C2		
2356	B4	4206	C5		
2362	B3	4301	B5		
2363	D3	4302	C3		
2364	D3	5103	E4		

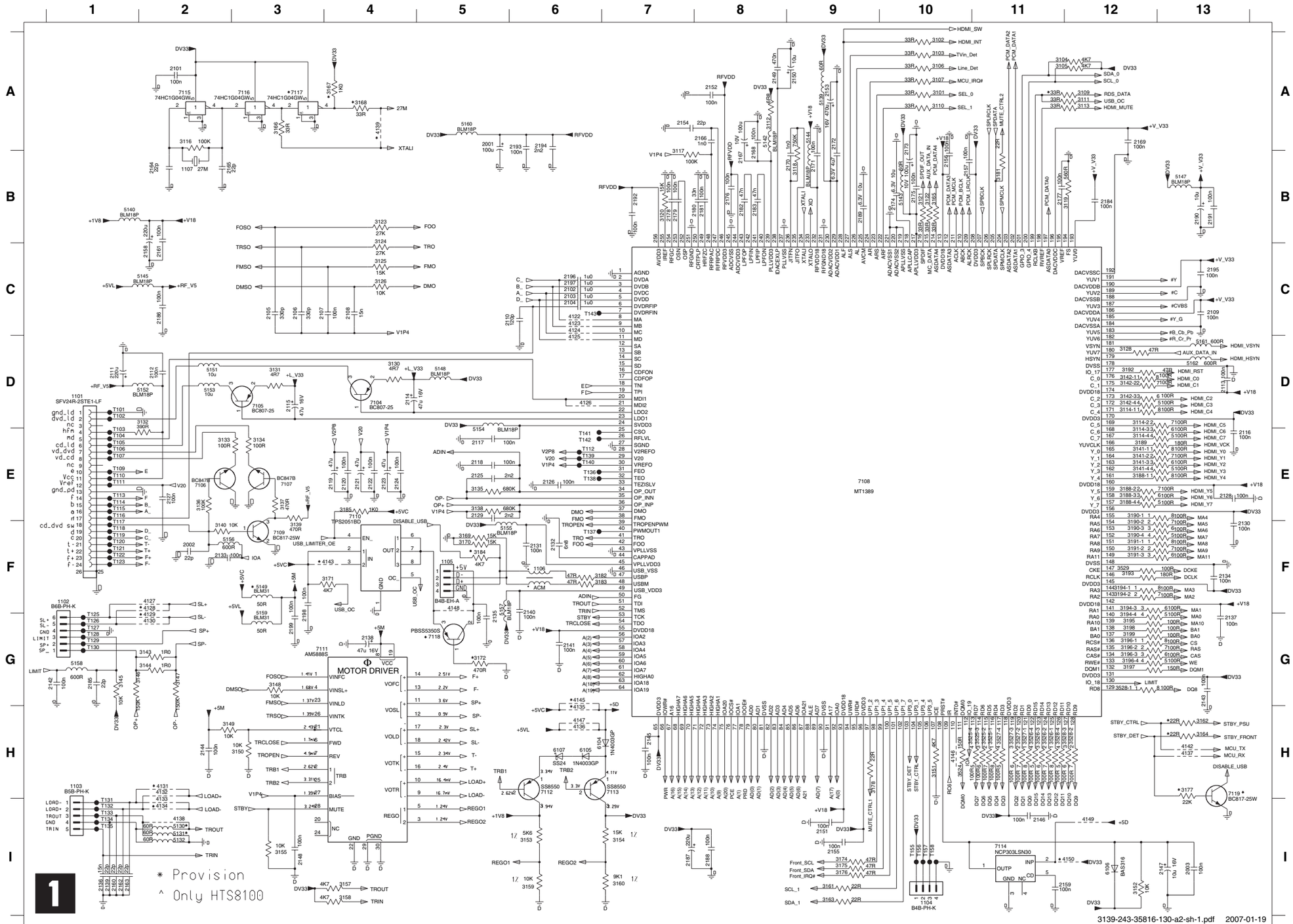
PWB Layout: AV Board (Bottom view)



AV 3139-243-35847-bot-a3.pdf_2007-02-13

2100	F4	6106	E4
2101	F4	6109	D5
2102	F4	6200	F3
2103	F3	6201	F3
2104	F4	6202	F2
2106	F4	6301	C3
2110	B5	6303	C3
2111	B5	6306	C3
2112	B5	6307	C3
2116	D5	7110	B4
2117	B5	7201	D4
2118	B5	7202	D4
2119	D5	7203	D4
2120	D5	7204	D4
2121	B5	7307	C3
2130	B5	7308	D3
2200	A4	7309	C3
2201	B3	7310	C3
2204	B4		
2205	A4		
2206	D1		
2207	D1		
2208	D1		
2209	F3		
2210	F3		
2211	F2		
2214	C1		
2215	C1		
2216	C1		
2217	D1		
2219	D1		
2300	A1		
2301	B1		
2302	B1		
2303	C1		
2309	C3		
2316	B3		
2343	B2		
2369	C3		
3127	E3		
3134	B4		
3135	B4		
3136	B4		
3200	B3		
3201	B4		
3204	B4		
3205	A4		
3210	D4		
3211	D4		
3212	D4		
3213	D4		
3214	D4		
3215	D4		
3216	D4		
3217	D4		
3218	D4		
3219	D4		
3308	C3		
3347	C2		
3356	C3		
3358	C2		
3362	C3		
3363	C3		
3366	C3		
3367	C3		
3368	C3		
3370	C3		
3375	C1		
4207	C4		
4208	C4		
4303	C2		
4304	D3		
4305	C3		
5100	F4		
5200	B4		
5201	B4		
5304	C1		
5305	C1		
5306	B1		
5307	B1		
5308	B1		
6104	E4		
6105	E4		

SD 9.2 Board: Circuit Diagram (Part 1)



1101 D1	3109 A12	3527-3 H11	T142 E6
1102 F1	3110 A10	3527-4 H11	T143 C6
1103 H1	3111 A12	3528-1 G12	T155 I10
1104 I10	3112 A8	3528-2 H12	T156 I10
1105 F5	3113 A12	3528-3 H11	T157 I10
1106 F6	3114-1 D12	3528-4 H11	T158 I10
1107 B2	3114-2 D12	3529 F12	
2001 A5	3114-3 E12	4122 C6	
2002 F2	3114-4 E12	4123 C6	
2003 I13	3116 A2	4124 C6	
2101 A2	3117 B7	4125 D6	
2102 C6	3118 B9	4126 D6	
2103 C6	3119 B12	4127 F2	
2104 C6	3120 B7	4128 F2	
2105 C3	3121 B10	4129 G2	
2106 C3	3122 B10	4130 G2	
2107 C3	3123 B4	4131 H2	
2108 C4	3124 C4	4132 H2	
2109 C13	3125 C4	4133 H2	
2110 C5	3126 C4	4134 I2	
2111 D1	3128 D12	4135 H6	
2112 D2	3130 D4	4136 H6	
2113 D13	3131 D3	4137 H13	
2114 D4	3132 D2	4138 I2	
2115 D3	3133 E2	4139 A4	
2116 E13	3134 E3	4142 H13	
2117 E5	3135 E5	4143 F4	
2118 E5	3136 E2	4145 G6	
2119 E4	3137 E3	4146 H10	
2120 E4	3138 E5	4147 H6	
2121 E4	3139 F3	4148 F5	
2122 E4	3140 F2	4149 I12	
2123 E4	3141-1 E12	4150 I12	
2124 E4	3141-2 E12	5130 I2	
2125 E5	3141-3 E12	5131 I2	
2126 E6	3141-4 E12	5132 I2	
2127 E2	3142-1 D12	5139 A9	
2128 E13	3142-2 D12	5140 B1	
2129 E5	3142-3 D12	5142 A8	
2130 F13	3142-4 D12	5143 B10	
2131 F6	3143 G2	5144 A9	
2132 F6	3144 G2	5145 C2	
2133 F2	3145 G1	5147 B13	
2134 F13	3146 G1	5148 D5	
2135 G5	3147 G2	5149 F3	
2136 I1	3148 G3	5151 D2	
2137 G13	3149 H2	5152 D2	
2138 G4	3150 H3	5153 D2	
2139 I1	3151 H10	5154 E5	
2140 F6	3152 I12	5155 F5	
2141 G6	3153 I6	5156 F2	
2142 G1	3154 I7	5157 F5	
2143 G13	3155 I3	5158 G1	
2144 H2	3157 I4	5159 G3	
2145 H7	3158 I4	5160 A5	
2146 I11	3159 I6	5161 D13	
2147 I13	3160 I7	5162 D13	
2148 I3	3161 I9	6104 H6	
2149 A8	3162 H13	6105 H6	
2150 A9	3163 I9	6106 I12	
2151 I9	3164 H13	6107 H6	
2152 A8	3165 B10	7104 D4	
2153 A9	3166 A3	7105 D3	
2154 A7	3167 A4	7106 E2	
2155 I9	3168 A4	7107 E3	
2156 B10	3169 F5	7108 E9	
2157 B10	3170 F5	7109 F3	
2158 C2	3171 F4	7110 E4	
2159 I12	3172 G5	7111 G4	
2160 I1	3174 I9	7112 H6	
2161 C2	3175 I9	7113 H7	
2162 I1	3176 I9	7114 I11	
2163 I1	3177 H13	7115 A2	
2164 B2	3178 H9	7116 A3	
2165 B2	3181 B11	7117 A3	
2166 A8	3182 F6	7118 G5	
2167 B8	3183 F6	7119 H13	
2168 B8	3184 F5	T101 D1	
2169 A12	3185 E4	T102 D1	
2170 B9	3188-1 E12	T103 E1	
2171 B9	3188-2 E12	T104 E1	
2172 A9	3188-3 E12	T105 E1	
2173 A10	3188-4 E12	T106 E1	
2174 B10	3189 E12	T107 E1	
2175 B10	3190-1 E12	T109 E1	
2176 B8	3190-2 F12	T110 E1	
2177 B11	3190-3 F12	T111 E1	
2178 B7	3190-4 F12	T112 E6	
2179 B7	3191-1 F12	T113 E1	
2180 B7	3191-2 F12	T114 E1	
2181 B8	3191-3 F12	T115 E1	
2182 B8	3192 D12	T116 E1	
2183 B8	3193 F12	T117 F1	
2184 B12	3194-1 F12	T118 F1	
2185 G1	3194-2 F12	T119 F1	
2186 C2	3194-3 F12	T120 F1	
2187 I7	3194-4 G12	T121 F1	
2188 I8	3195 G12	T122 F1	
2189 B9	3196-1 G12	T123 F1	
2190 B13	3196-2 G12	T125 G1	
2191 B13	3196-3 G12	T126 G1	
2192 B7	3196-4 G12	T127 G1	
2193 A6	3197 G12	T128 G1	
2194 A6	3198 G12	T129 G1	
2195 C13	3199 G12	T130 G1	
2196 C6	3524 H10	T131 I1	
2197 C6	3525-1 H11	T132 I1	
2198 G3	3525-2 H11	T133 I1	
2199 G3	3525-3 H11	T134 I1	
3101 A10	3525-4 H10	T135 I1	
3102 A10	3526-1 H11	T136 E6	
3103 A10	3526-2 H11	T137 F6	
3104 A11	3526-3 H11	T138 E6	
3105 A11	3526-4 H11	T139 E6	
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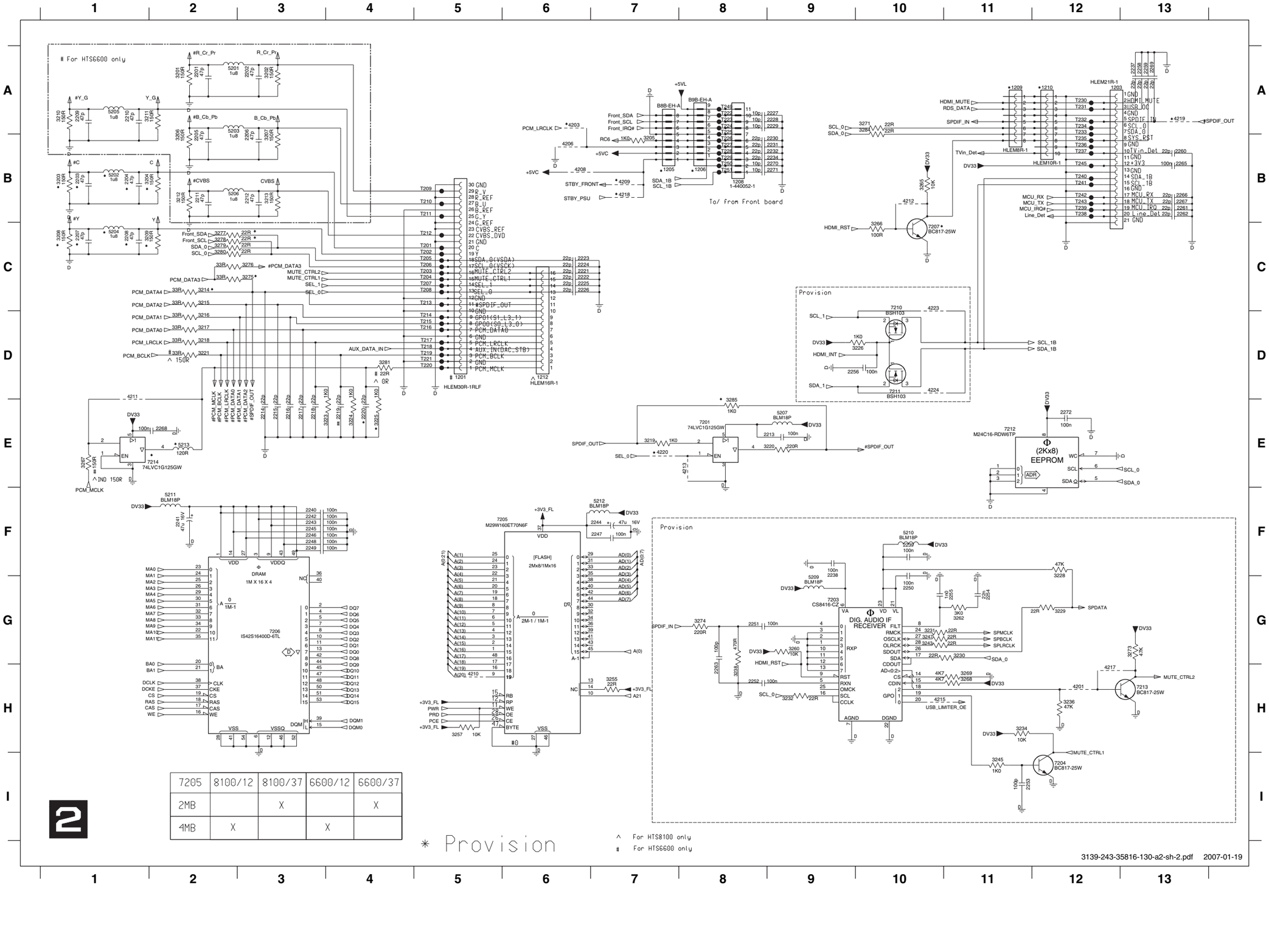
SD 9.2 Board: Circuit Diagram (Part 2)



7205	8100/12	8100/37	6600/12	6600/37
2MB		X		X
4MB	X		X	

* Provision

^ For HTS8100 only

\# For HTS6600 only

3139-243-35816-130-a2-sh-2.pdf 2007-01-19

1201 D5
1203 A12
1205 B7
1206 B8
1208 B8
1209 A11
1210 A12
1212 D6
2201 A2
2202 A3
2203 B1
2204 B1
2205 B2
2206 B3
2207 C1
2208 C1
2209 A1
2210 A1
2211 B2
2212 B3
2213 E9
2214 E3
2215 E3
2216 E3
2217 E9
2218 E3
2219 E4
2220 E4
2221 C6
2222 C6
2223 C6
2226 C6
2227 A9
2228 A9
2229 A9
2230 B9
2231 B9
2232 B9
2234 B9
2237 A13
2238 F9
2239 F10
2240 F3
2241 F2
2242 F3
2243 F3
2244 F7
2245 F3
2246 F3
2247 F7
2248 F3
2249 F3
2250 G10
2251 G8
2252 H8
2253 I11
2254 G11
2255 G11
2256 D9
2258 A13
2259 A13
2260 B13
2261 B13
2262 B13
2263 H8
2265 B13
2266 B13
2267 B13
2268 E2
2269 A13
2270 B9
2271 B9
2272 E12
3201 A2
3202 A3
3203 B1
3204 B1
3205 B7
3206 B2
3207 B3
3208 C1
3209 C1
3210 A1
3211 A1
3212 B2
3213 B3
3214 C2
3215 C2
3216 D2
3217 D2
3218 D2
3219 E7
3220 E9
3221 D2
3223 E4
3224 E4
3225 E4
3226 D10
3228 F12
3229 G12
3230 G11
3231 G10
3232 H9
3234 H11
3236 H12
3238 H8
3243 G10
3245 I11
3247 G10
3255 H7
3257 H5
3260 G9
3262 G11
3265 B10
3266 C10
3267 E1
3268 H11
3269 H11
3271 A10
3273 G13
3274 G8
3275 C3
3276 C3
3277 C2
3278 C2
3279 C2
3280 C2
3281 D4
3284 A10
3285 E8
4201 H12
4203 A6
4206 B6
4208 B6
4209 B7
4210 H5
4211 D1
4212 B10
4213 E8
4215 H10
4217 H12
4218 B7
4219 A13
4220 E7
4223 C10
4224 D10
5201 A2
5202 B1
5203 A2
5204 C1
5205 A1
5206 B2
5207 E9
5209 G9
5210 F10
5211 F2
5212 F7
7201 E8
7203 G9
7204 I12
7205 F5
7206 G3
7207 C10
7210 C10
7211 D10
7212 E11
7213 H13
7214 E2
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T202 C5
T203 C5
T204 C5
T205 C5
T206 C5
T207 C5
T208 C5
T209 B5
T210 B5
T211 B5
T212 C5
T213 C5
T214 D5
T215 D5
T216 D5
T217 D5
T218 D5
T219 D5
T220 D5
T221 D5
T222 A8
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T224 A8
T225 A8
T226 B8
T227 B8
T228 B8
T229 B8
T230 A12
T231 A12
T232 A12
T233 A12
T234 A12
T235 B12
T236 B12
T238 B12
T239 B12
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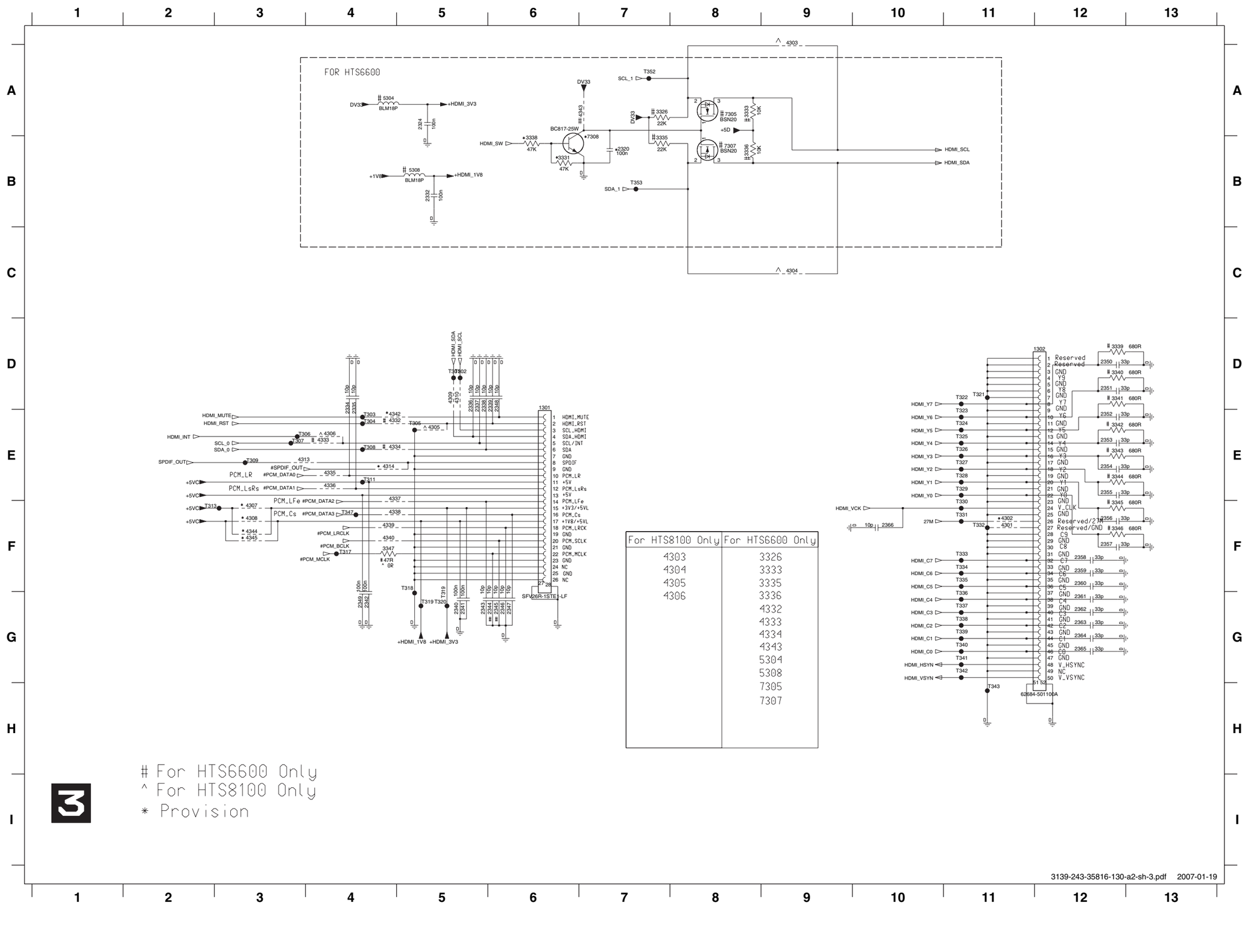
T249 A8
T250 B8
T251 B8

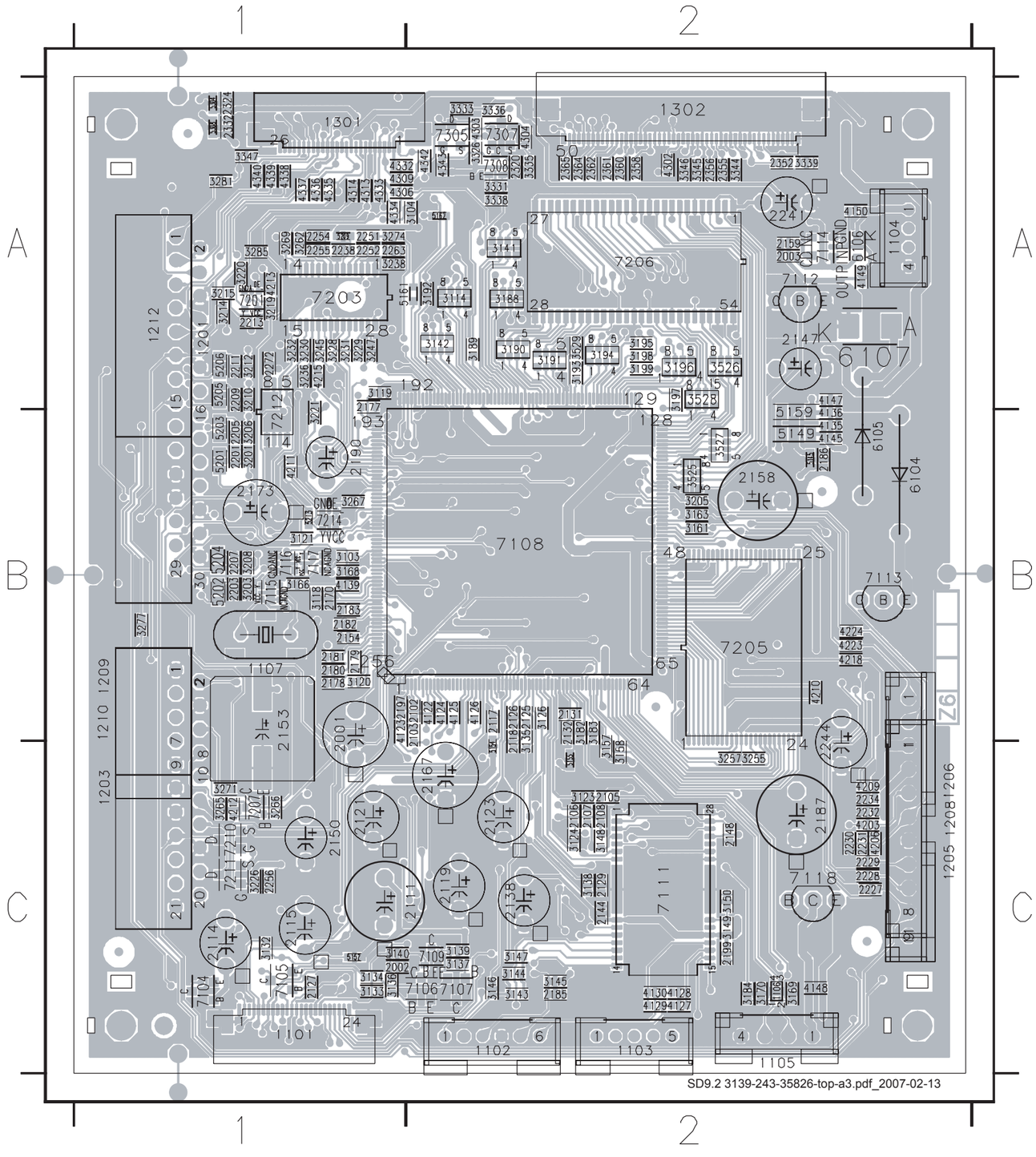
SD 9.2 Board: Circuit Diagram (Part 3)



For HTS8100 Only	For HTS6600 Only
4303	3326
4304	3333
4305	3335
4306	3336
	4332
	4333
	4334
	4343
	5304
	5308
	7305
	7307

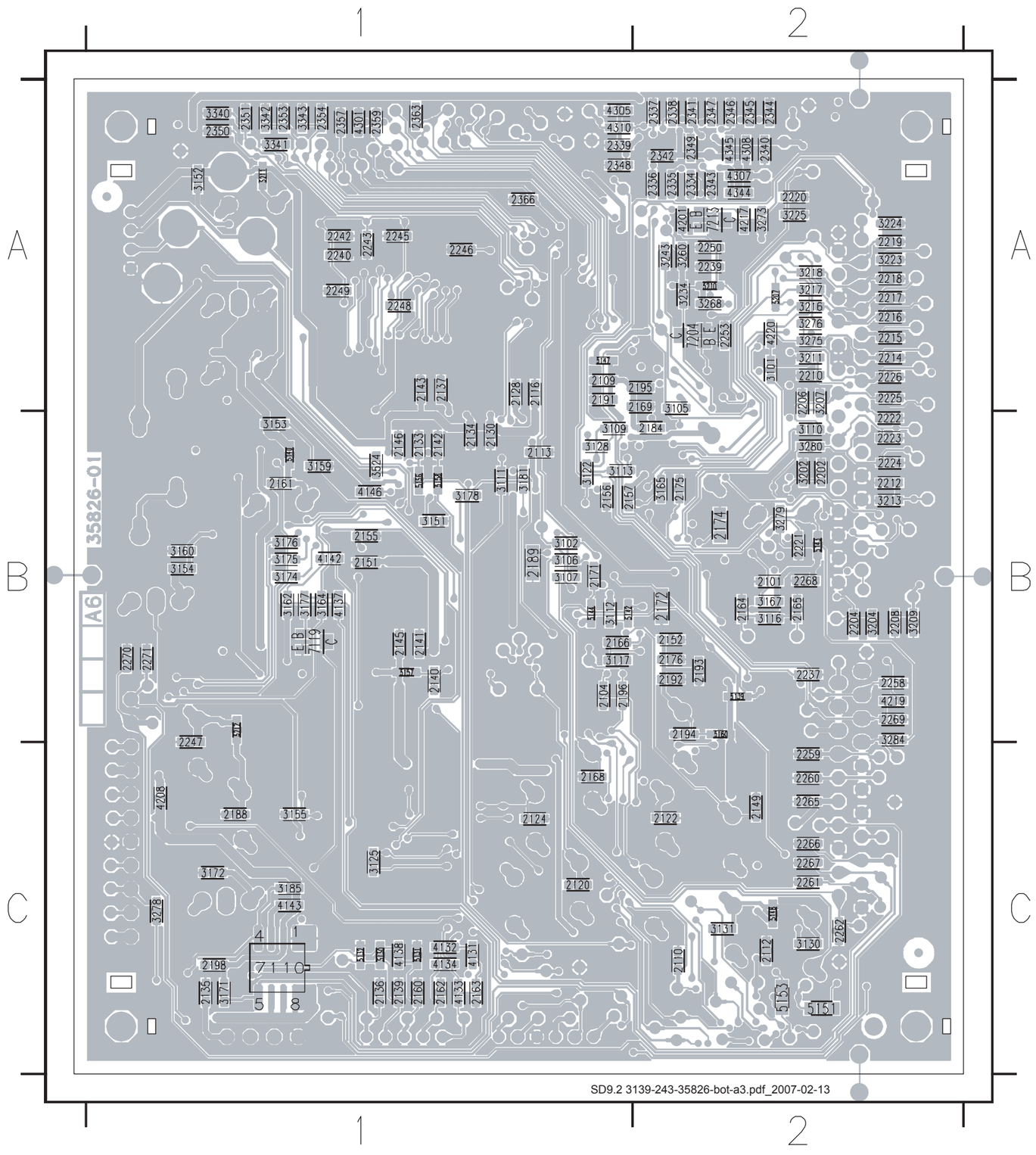
1301 D6
1302 D12
2320 B7
2324 A5
2332 B5
2334 D4
2335 D4
2336 D5
2337 D5
2338 D5
2339 D6
2340 G5
2341 G5
2342 G4
2343 G5
2344 G6
2345 G6
2346 G6
2347 G6
2348 D6
2349 G4
2350 D12
2351 D12
2352 E12
2353 E12
2354 E12
2355 E12
2356 F12
2357 F12
2358 F12
2359 F12
2360 F12
2361 G12
2362 G12
2363 G12
2364 G12
2365 G12
2366 F10
3326 A7
3331 B6
3333 A8
3335 B7
3336 B8
3338 B6
3339 D12
3340 D12
3341 D12
3342 E12
3343 E12
3344 E12
3345 F12
3346 F12
3347 F4
4301 F11
4302 F11
4303 A9
4304 C9
4305 E5
4306 E4
4307 F3
4308 F3
4309 D5
4310 D5
4313 E3
4314 E4
4332 E4
4333 E4
4334 E4
4335 E4
4336 E4
4337 E4
4338 F4
4339 F4
4340 F4
4342 E4
4343 A7
4344 F3
4345 F3
5304 A4
5308 B5
7305 A8
7307 B8
7308 B7
T301 D5
T302 D5
T303 E4
T304 E4
T305 E5
T306 E3
T307 E3
T308 E4
T309 E3
T311 E4
T313 F2
T317 F4
T318 F5
T319 G5
T320 G5
T321 D11
T322 D11
T323 E11
T324 E11
T325 E11
T326 E11
T327 E11
T328 E11
T329 E11
T330 F11
T331 F11
T332 F11
T333 F11
T334 F11
T335 F11
T336 G11
T337 G11
T338 G11
T339 G11
T340 G11
T341 G11
T342 G11
T343 H11
T347 F4
T352 A7
T353 B7

PWB Layout: SD 9.2 Board (Top view)



1101	C1	2180	B1	3126	B2	3226	C1	4203	C2	7108	B2
1102	C2	2181	B1	3132	C1	3228	A1	4206	C2	7109	C2
1103	C2	2182	B1	3133	C1	3229	A1	4209	C2	7111	C2
1104	A2	2183	B1	3134	C1	3230	A1	4210	B2	7112	A2
1105	C2	2185	C2	3135	C2	3231	A1	4211	B1	7113	B2
1106	C2	2186	B2	3136	C1	3232	A1	4212	C1	7114	A2
1107	B1	2187	C2	3137	C2	3236	A1	4213	A1	7115	B1
1201	A1	2190	B1	3138	C2	3238	A1	4215	A1	7116	B1
1203	C1	2197	B1	3139	C2	3245	A1	4218	B2	7117	B1
1205	C2	2199	C2	3140	C1	3247	A1	4223	B2	7118	C2
1206	C2	2201	B1	3141	A2	3255	C2	4224	B2	7201	A1
1208	C2	2203	B1	3142	A2	3257	C2	4302	A2	7203	A1
1209	B1	2205	B1	3143	C2	3262	A1	4303	A2	7205	B2
1210	B1	2207	B1	3144	C2	3265	C1	4304	A2	7206	A2
1212	A1	2209	A1	3145	C2	3266	C1	4306	A1	7207	C1
1301	A1	2211	A1	3146	C2	3267	B1	4309	A1	7210	C1
1302	A2	2213	A1	3147	C2	3269	A1	4313	A1	7211	C1
2001	B1	2227	C2	3148	C2	3271	C1	4314	A1	7212	B1
2002	C1	2228	C2	3149	C2	3274	A1	4332	A1	7214	B1
2003	A2	2229	C2	3150	C2	3277	B1	4333	A1	7305	A2
2102	B2	2230	C2	3157	C2	3281	A1	4334	A1	7307	A2
2103	B2	2231	C2	3158	C2	3285	A1	4335	A1	7308	A2
2105	C2	2232	C2	3161	B2	3326	A2	4336	A1		
2106	C2	2234	C2	3163	B2	3331	A2	4337	A1		
2107	C2	2238	A1	3166	B1	3333	A2	4338	A1		
2108	C2	2241	A2	3168	B1	3335	A2	4339	A1		
2111	C2	2244	C2	3169	C2	3336	A2	4340	A1		
2114	C1	2251	A1	3170	C2	3338	A2	4342	A2		
2115	C1	2252	A1	3182	B2	3339	A2	4343	A2		
2117	B2	2254	A1	3183	B2	3344	A2	5145	B2		
2118	C2	2255	A1	3184	C2	3345	A2	5149	B2		
2119	C2	2256	C1	3188	A2	3346	A2	5152	C1		
2121	C1	2263	A1	3189	A2	3347	A1	5154	C2		
2123	C2	2272	A1	3190	A2	3525	B2	5155	C2		
2125	B2	2320	A2	3191	A2	3526	A2	5159	B2		
2126	B2	2324	A1	3192	A2	3527	B2	5161	A1		
2127	C1	2332	A1	3193	A2	3528	A2	5162	A2		
2129	C2	2352	A2	3194	A2	3529	A2	5201	B1		
2131	B2	2355	A2	3195	A2	4122	B2	5202	B1		
2132	B2	2356	A2	3196	A2	4123	B1	5203	B1		
2138	C2	2358	A2	3197	A2	4124	B2	5204	B1		
2144	C2	2360	A2	3198	A2	4125	B2	5205	A1		
2147	A2	2361	A2	3199	A2	4126	B2	5206	A1		
2148	C2	2362	A2	3201	B1	4127	C2	5209	A1		
2150	C1	2364	A2	3203	B1	4128	C2	5213	B1		
2153	B1	2365	A2	3205	B2	4129	C2	5304	A1		
2154	B1	3103	B1	3206	B1	4130	C2	5308	A1		
2158	B2	3104	A2	3208	B1	4135	B2	6104	B2		
2159	A2	3114	A2	3210	A1	4136	B2	6105	B2		
2167	C2	3118	B1	3212	A1	4139	B1	6106	A2		
2170	B1	3119	A1	3214	A1	4145	B2	6107	A2		
2173	B1	3120	B1	3215	A1	4147	A2	7104	C1		
2177	A1	3121	B1	3219	A1	4148	C2	7105	C1		
2178	B1	3123	C2	3220	A1	4149	A2	7106	C2		
2179	B1	3124	C2	3221	B1	4150	A2	7107	C2		

PWB Layout: SD 9.2 Board (Bottom view)



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2104 B1
2109 A1
2110 C2
2112 C2
2113 B1
2116 A1
2120 C1
2122 C2
2124 C1
2128 A1
2130 B1
2133 B1
2134 B1
2135 C1
2136 C1
2137 A1
2139 C1
2140 B1
2141 B1
2142 B1
2143 A1
2145 B1
2146 B1
2149 C2
2151 B1
2152 B2
2155 B1
2156 B1
2157 B1
2160 C1
2161 B1
2162 C1
2163 C1
2164 B2
2165 B2
2166 B1
2168 C1
2169 A2
2171 B1
2172 B2
2174 B2
2175 B2
2176 B2
2184 B2
2188 C1
2189 B1
2191 A1
2192 B2
2193 B2
2194 B2
2195 A2
2196 B1
2198 C1
2202 B2
2204 B2
2206 A2
2208 B2
2210 A2
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2245 A1
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2248 A1
2249 A1
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2259 C2
2260 C2
2261 C2
2262 C2
2265 C2
2266 C2
2267 C2
2268 B2
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3278 C1
3279 B2
3280 B2
3284 B2
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3342 A1
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4143 C1
4146 B1
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4208 C1
4217 A2
4219 B2
4220 A2
4301 A1
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4344 A2
4345 A2
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5131 C1
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5144 B1
5147 A1
5148 C2
5151 C2
5153 C2
5156 B1
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5158 B1
5160 B2
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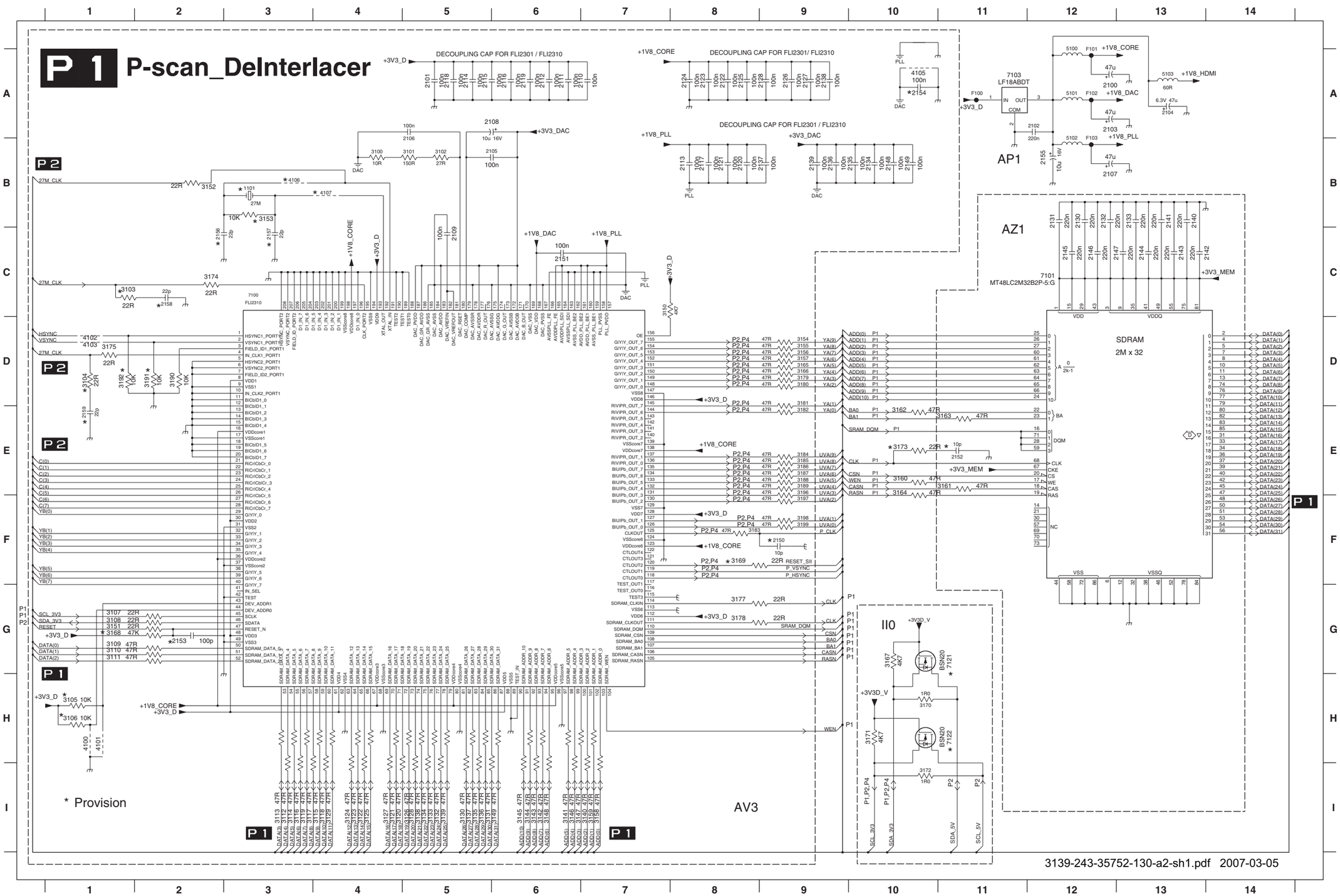
5211 A1
5212 B1
7110 C1
7119 B1
7204 A2
7213 A2

HDMI Board: Circuit Diagram (Part 1)



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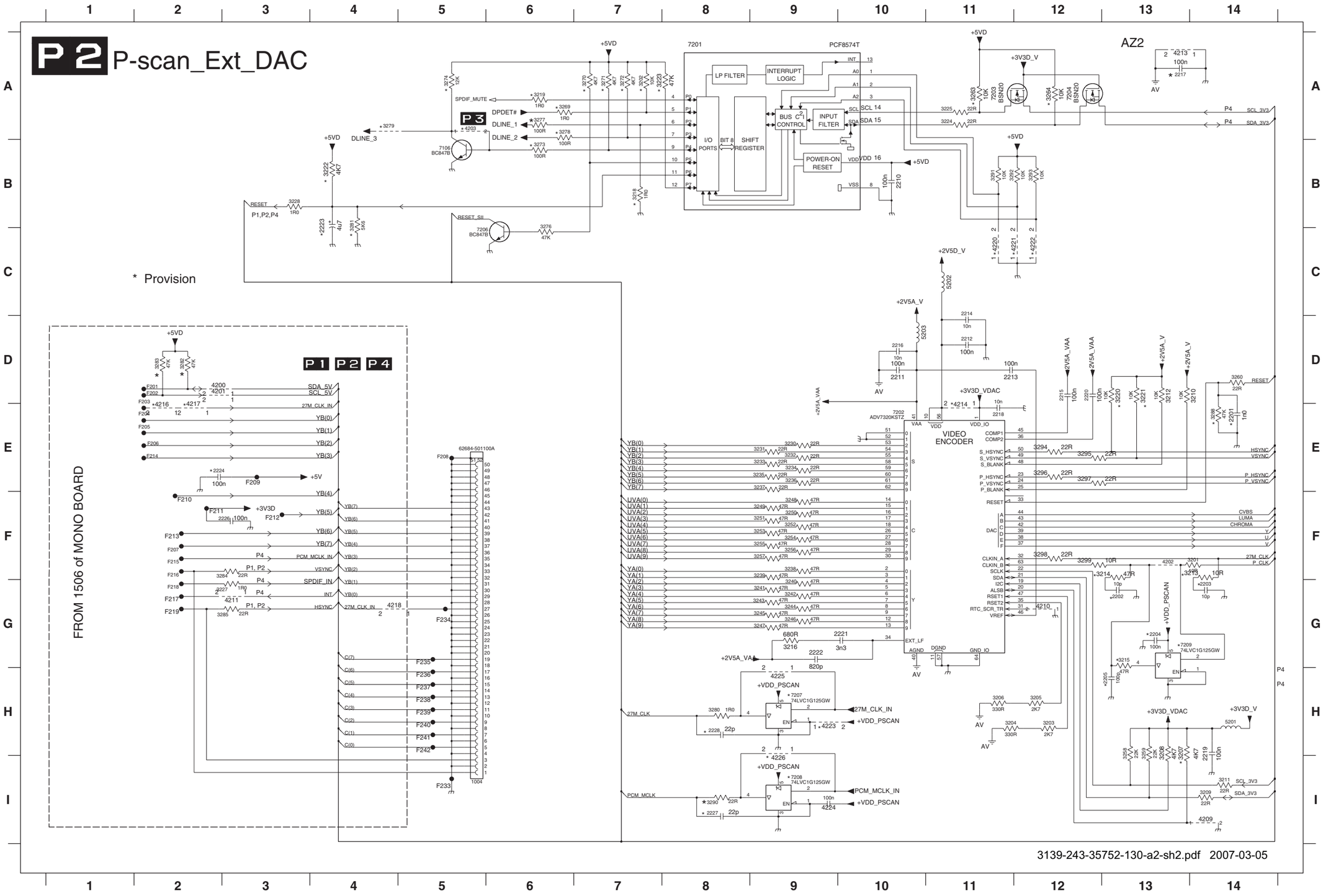
2100	A12	3155	D9
2101	A5	3156	D9
2102	A12	3157	D9
2103	A12	3158	I7
2104	A13	3159	I7
2105	B6	3160	E10
2106	A5	3161	E11
2107	B12	3162	E10
2108	A6	3163	E11
2109	C5	3164	E10
2110	A7	3165	D9
2111	A6	3166	D9
2112	A6	3167	G10
2113	B8	3168	G1
2114	A5	3169	F8
2115	A5	3170	H10
2116	A6	3171	H10
2117	B8	3172	I10
2118	A5	3173	E10
2119	A6	3174	C2
2120	B8	3175	D1
2121	B8	3177	G8
2122	A8	3178	G8
2123	A8	3179	D9
2124	A8	3180	D9
2125	A8	3181	D9
2126	A9	3182	E9
2127	A9	3183	F8
2128	A9	3184	E9
2130	B12	3185	E9
2131	B12	3186	E9
2132	B12	3187	E9
2133	B13	3188	E9
2134	B10	3189	E9
2135	B10	3190	D2
2136	B9	3191	D2
2137	B9	3192	D1
2138	A9	3196	E9
2139	B9	3197	F9
2140	B13	3198	F9
2141	B13	3199	F9
2142	C13	4100	H1
2143	C13	4101	H1
2144	C13	4102	D1
2145	C12	4103	D1
2146	C12	4105	A10
2147	C13	4106	B3
2148	B10	4107	B4
2149	B10	5100	A12
2150	F9	5101	A12
2151	C6	5102	B12
2152	E11	5103	A13
2153	G2	7100	C3
2154	A10	7101	C12
2155	B12	7103	A11
2156	C2	7121	G11
2157	C3	7122	H11
2158	C2	F100	A11
2159	E1	F101	A12
3100	B4	F102	A12
3101	B5	F103	B12
3102	B5		
3103	C1		
3104	D1		
3105	H1		
3106	H1		
3107	G1		
3108	G1		
3109	G1		
3110	G1		
3111	G1		
3112	I3		
3113	I3		
3114	I3		
3115	I4		
3116	I3		
3117	I3		
3118	I4		
3119	I3		
3120	I4		
3121	I4		
3122	I4		
3123	I4		
3124	I4		
3125	I4		
3126	I5		
3127	I4		
3128	I5		
3129	I4		
3130	I5		
3131	I5		
3132	I5		
3133	I5		
3134	I5		
3135	I5		
3136	I5		
3137	I5		
3138	I5		
3139	I5		
3140	I7		
3141	I6		
3142	I6		
3143	I6		
3144	I6		
3145	I6		
3146	I6		
3147	I6		
3148	I6		
3149	I6		
3150	C7		
3151	G1		
3152	B2		
3153	B3		

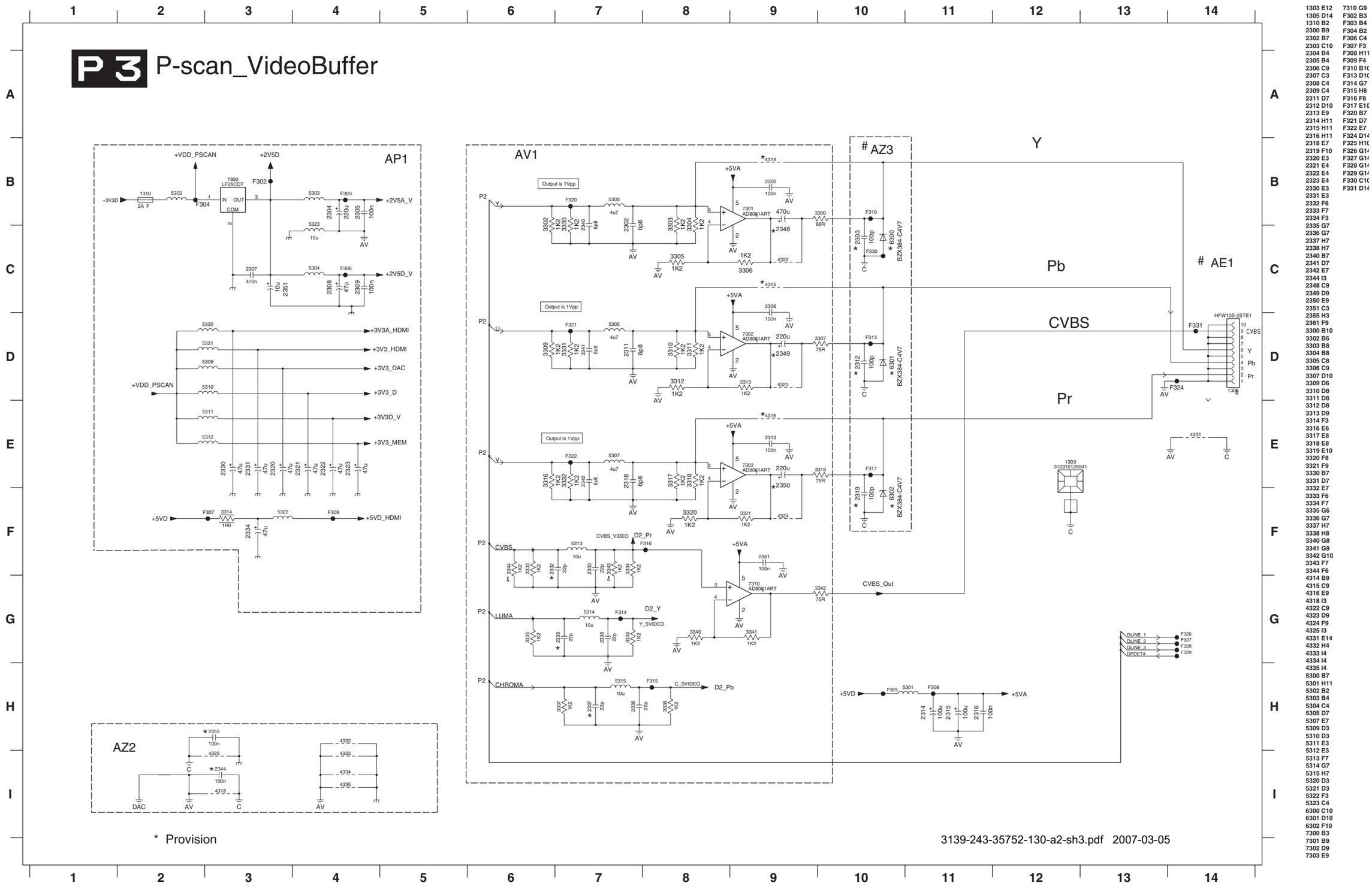
HDMI Board: Circuit Diagram (Part 2)



1004 I5
2201 E14
2202 G13
2203 G14
2204 G13
2205 H13
2210 B10
2211 D10
2212 D11
2213 D11
2214 C11
2215 D12
2216 D10
2217 A13
2218 E11
2219 H14
2220 D12
2221 G10
2222 G9
2223 B4
2224 E2
2226 F3
2227 I8
2228 H8
3201 F14
3202 A7
3203 H12
3204 H11
3205 H12
3206 H11
3207 H13
3208 H13
3209 I14
3210 D14
3211 I14
3212 D13
3213 F14
3214 F13
3215 G13
3216 G9
3218 B7
3219 A6
3220 D13
3221 D13
3222 B4
3223 A7
3224 A11
3225 A11
3227 G3
3228 B3
3230 E9
3231 E9
3232 E9
3233 E9
3234 E9
3235 E9
3236 E9
3237 E9
3238 F9
3239 F9
3240 G9
3241 G9
3242 G9
3243 G9
3244 G9
3245 G9
3246 G9
3247 G9
3248 F9
3249 F9
3250 F9
3251 F9
3252 F9
3253 F9
3254 F9
3255 F9
3256 F9
3257 F9
3258 H13
3259 H13
3260 D14
3263 A11
3264 A12
3269 A6
3270 A7
3271 A7
3272 A7
3273 B6
3274 A5
3276 C6
3277 A6
3278 A6
3279 A4
3280 H8
3281 B4
3282 D2
3283 D2
3284 F3
3285 G3
3288 E14
3290 I8
3291 B11
3292 B11
3293 B12
3294 E12
3295 E12
3296 E12
3297 E12
3298 F12
3299 F12
4200 D2
4201 D2
4202 F13
4203 A5
4209 I14
4210 G12
4211 G3
4213 A13
4214 E11
4216 D2
4217 D2
4218 G4
4220 C11
4221 C12
4222 C12
4223 H9
4224 I9
4225 H9
4226 I9
5201 H14
5202 C11
5203 D10
7106 B5
7201 A8
7202 E10
7203 A11
7204 A12
7206 C6
7207 H9
7208 I9
7209 G13
F201 D2
F202 D2
F203 D2
F204 E2
F205 E2
F206 E2
F207 F2
F208 E5
F209 E3
F210 F2
F211 F2
F212 F3
F213 F2
F214 E2
F215 F2
F216 F2
F217 G2
F218 G2
F219 G2
F233 I5
F234 A7
F235 G5
F236 H5
F237 H5
F238 H5
F239 H5
F240 H5
F241 H5
F242 H5

HDMI Board: Circuit Diagram (Part 3)

P3 P-scan_VideoBuffer

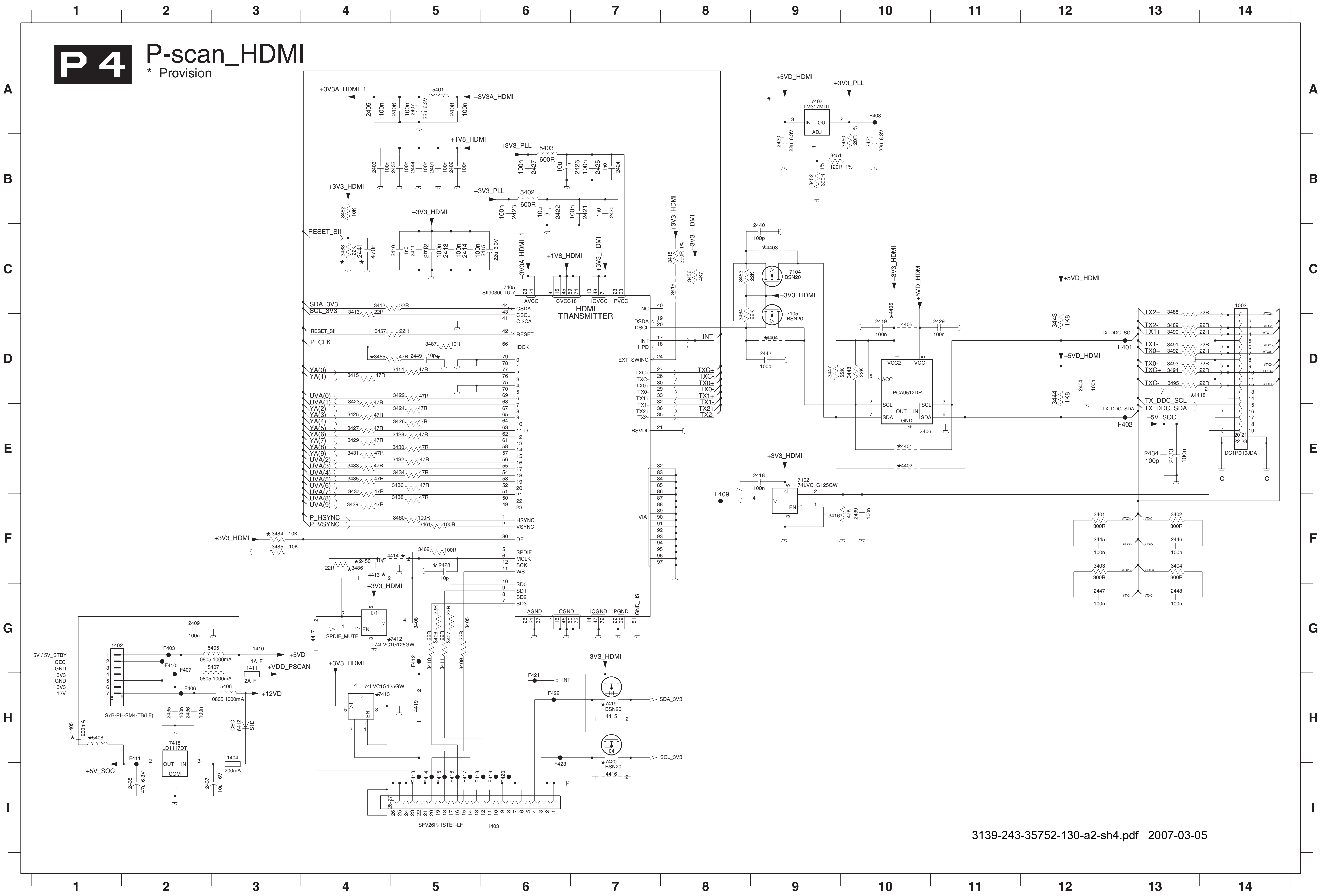


* Provision

3139-243-35752-130-a2-sh3.pdf 2007-03-05

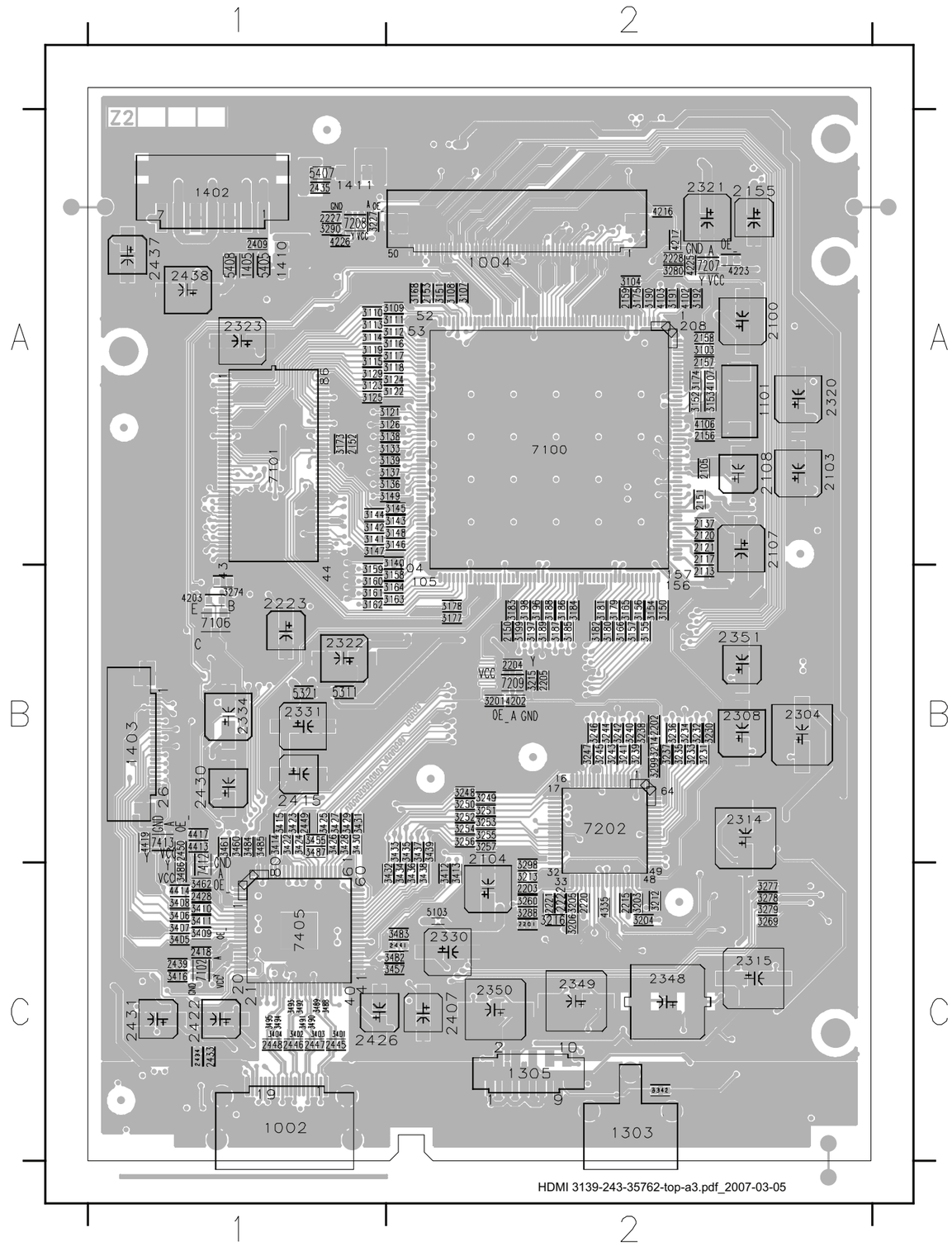
1303 E12
1305 D14
1310 B2
2300 B9
2302 B7
2303 C10
2304 B4
2305 B4
2306 C9
2307 C3
2308 C4
2309 C4
2311 D7
2312 D10
2313 E9
2314 H11
2315 H11
2316 H11
2318 E7
2319 F10
2320 E3
2321 E4
2322 E4
2323 E4
2330 E3
2331 E3
2332 F6
2333 F7
2334 F3
2335 G7
2336 G7
2337 H7
2338 H7
2340 B7
2341 D7
2342 E7
2344 I3
2348 C9
2349 D9
2350 E9
2351 C3
2355 H3
2361 F9
3300 B10
3302 B6
3303 B8
3304 B8
3305 C8
3306 C9
3307 D10
3309 D6
3310 D8
3311 D8
3312 D8
3313 D9
3314 F3
3316 E6
3317 E8
3318 E8
3319 E10
3320 F8
3321 F9
3330 B7
3331 D7
3332 E7
3333 F6
3334 F7
3335 G6
3336 G7
3337 H7
3338 H8
3340 G8
3341 G9
3342 G10
3343 F7
3344 F6
4314 B9
4315 C9
4316 E9
4318 I3
4322 C9
4323 D9
4324 F9
4325 I3
4331 E14
4332 H4
4333 I4
4334 I4
4335 I4
5300 B7
5301 H11
5302 B2
5303 B4
5304 C4
5305 D7
5307 E7
5309 D3
5310 D3
5311 E3
5312 E3
5313 F7
5314 G7
5315 H7
5320 D3
5321 D3
5322 F3
5323 C4
6300 C10
6301 D10
6302 F10
7300 B3
7301 B9
7302 D9
7303 E9
7310 G9
F302 B3
F303 B4
F304 B2
F306 C4
F307 F3
F308 H11
F309 F4
F310 B10
F313 D10
F314 G7
F315 H8
F316 F8
F317 E10
F320 B7
F321 D7
F322 E7
F324 D14
F325 H10
F326 G14
F327 G14
F328 G14
F329 G14
F330 C10
F331 D14

HDMI Board: Circuit Diagram (Part 4)



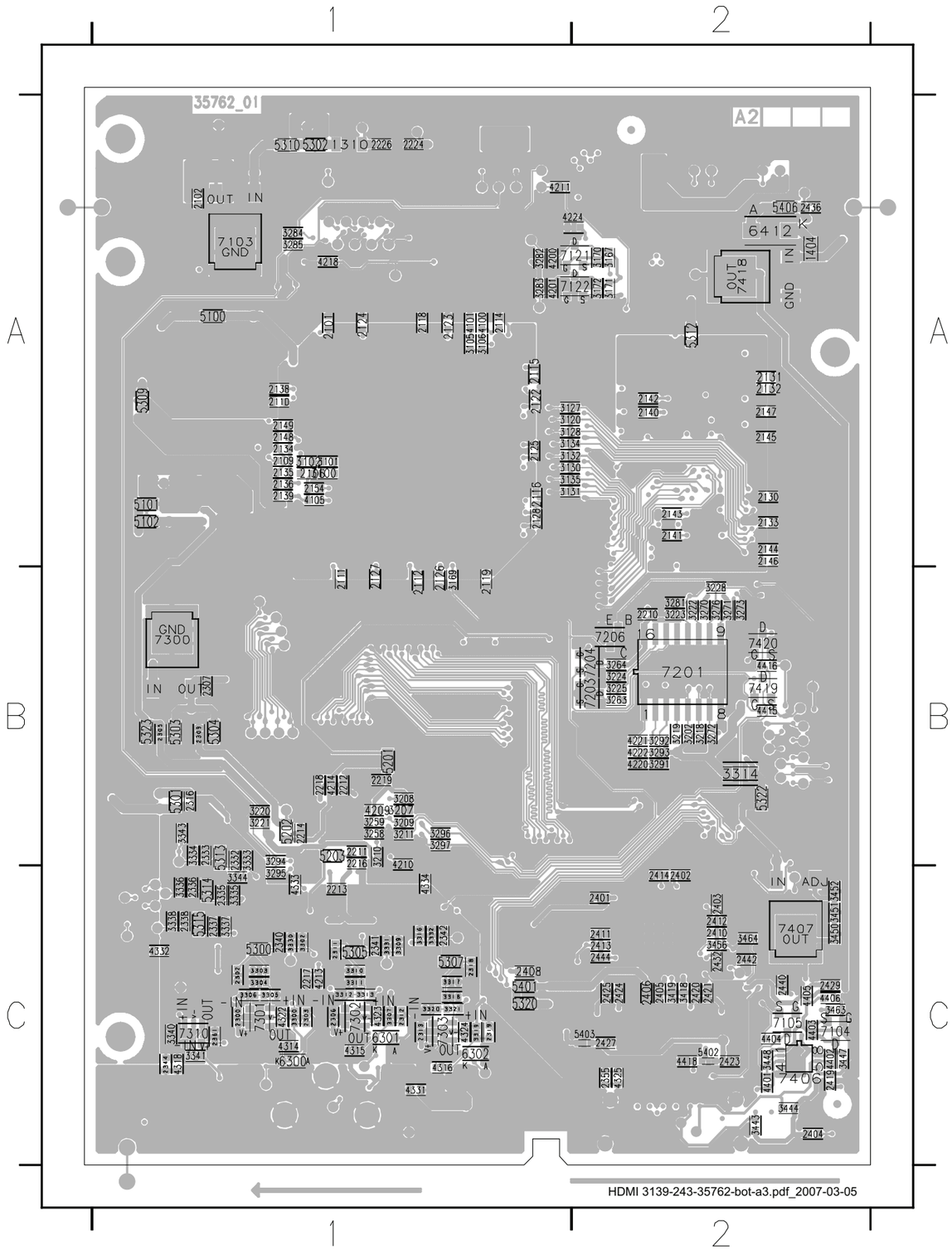
1002 C14	3490 D13
1402 G1	3491 D13
1403 I6	3492 D13
1404 H3	3493 D13
1405 H1	3494 D13
1410 G3	3495 D13
1411 G3	4401 E10
2401 B5	4402 E10
2402 B5	4403 C9
2403 B4	4404 D9
2404 D12	4405 D10
2405 A4	4406 C10
2406 A5	4413 F4
2407 A5	4414 F5
2408 A5	4415 H7
2409 G2	4416 I7
2410 C5	4417 G4
2411 C5	4418 D13
2412 C5	4419 H5
2413 C5	5401 A5
2414 C5	5402 B6
2415 C6	5403 B6
2418 E9	5405 G3
2419 D10	5406 H3
2420 B7	5407 G3
2421 B7	5408 H1
2422 B6	6412 H3
2423 B6	7102 E9
2424 B7	7104 C9
2425 B7	7105 D9
2426 B7	7405 C6
2427 B6	7406 E10
2428 F5	7407 A9
2429 D11	7412 G5
2430 B9	7413 H4
2431 B10	7418 H2
2432 B5	7419 H7
2433 E13	7420 I7
2434 E13	F401 D13
2435 H2	F402 E13
2436 H2	F403 G2
2437 I2	F406 H2
2438 I2	F407 G2
2439 F10	F408 A10
2440 C9	F409 F8
2441 C4	F410 G2
2442 D9	F411 H2
2444 B5	F412 G5
2445 F12	F413 I5
2446 F13	F414 I5
2447 G12	F415 I5
2448 G13	F416 I5
2449 D5	F417 I5
2450 F4	F418 I5
3401 F12	F419 I6
3402 F13	F420 I6
3403 F12	F421 H6
3404 F13	F422 H6
3405 G5	F423 H6
3406 G5	
3407 G5	
3408 G5	
3409 G5	
3410 G5	
3411 G5	
3412 C4	
3413 C4	
3414 D5	
3415 D4	
3416 F9	
3418 C8	
3419 C8	
3422 D5	
3423 D4	
3424 E5	
3425 E4	
3426 E5	
3427 E4	
3428 E5	
3429 E4	
3430 E5	
3431 E4	
3432 E5	
3433 E4	
3434 E5	
3435 E4	
3436 E5	
3437 E4	
3438 F5	
3439 F4	
3443 D12	
3444 D12	
3447 D9	
3448 D10	
3450 B10	
3451 B9	
3452 B9	
3455 D4	
3456 C8	
3457 D4	
3460 F5	
3461 F5	
3462 F5	
3463 C8	
3464 D8	
3482 B4	
3483 C4	
3484 F3	
3485 F3	
3486 F4	
3487 D5	
3488 C13	
3489 D13	

PWB Layout: HDMI Board (Top view)



1002	C1	2450	B1	3199	B2	3432	C2
1004	A2	3103	A2	3201	B2	3433	B2
1101	A2	3104	A2	3203	C2	3434	C2
1303	C2	3107	A2	3204	C2	3435	B2
1305	C2	3108	A2	3205	C2	3436	C2
1402	A1	3109	A2	3206	C2	3437	B2
1403	B1	3110	A1	3212	C2	3438	C2
1405	A1	3111	A2	3213	C2	3439	B2
1410	A1	3112	A2	3214	B2	3455	B1
1411	A1	3113	A1	3215	B2	3457	C2
2100	A2	3114	A1	3216	C2	3460	B1
2103	A2	3115	A1	3227	A1	3461	B1
2104	B2	3116	A2	3230	B2	3462	C1
2105	A2	3117	A2	3231	B2	3482	C2
2107	A2	3118	A2	3232	B2	3483	C2
2108	A2	3119	A1	3233	B2	3484	B1
2113	B2	3121	A2	3234	B2	3485	B1
2117	A2	3122	A2	3235	B2	3486	C1
2120	A2	3123	A1	3236	B2	3487	B1
2121	A2	3124	A2	3237	B2	3488	C1
2137	A2	3125	A1	3238	B2	3489	C1
2150	B2	3126	A2	3239	B2	3490	C1
2151	A2	3129	A1	3240	B2	3491	C1
2152	A1	3133	A2	3241	B2	3492	C1
2153	A2	3136	A2	3242	B2	3493	C1
2155	A2	3137	A2	3243	B2	3494	C1
2156	A2	3138	A2	3244	B2	3495	C1
2157	A2	3139	A2	3245	B2	4102	A2
2158	A2	3140	A2	3246	B2	4103	A2
2159	A2	3141	A1	3247	B2	4106	A2
2201	C2	3142	A1	3248	B2	4107	A2
2202	B2	3143	A2	3249	B2	4202	B2
2203	C2	3144	A1	3250	B2	4203	B1
2204	B2	3145	A2	3251	B2	4216	A2
2205	B2	3146	A2	3252	B2	4217	A2
2215	C2	3147	A1	3253	B2	4223	A2
2220	C2	3148	A2	3254	B2	4225	A2
2221	C2	3149	A2	3255	B2	4226	A1
2222	C2	3150	B2	3256	B2	4335	C2
2223	B1	3151	A2	3257	B2	4413	B1
2227	A1	3152	A2	3260	C2	4414	C1
2228	A2	3153	A2	3269	C2	4417	B1
2304	B2	3154	B2	3274	B1	4419	B1
2308	B2	3155	B2	3277	C2	5103	C2
2314	B2	3156	B2	3278	C2	5311	B1
2315	C2	3157	B2	3279	C2	5321	B1
2320	A2	3158	B2	3280	A2	5405	A1
2321	A2	3159	B1	3288	C2	5407	A1
2322	B1	3160	B1	3290	A1	5408	A1
2323	A1	3161	B1	3298	C2	7100	A2
2330	C2	3162	B1	3299	B2	7101	A1
2331	B1	3163	B2	3342	C2	7102	C1
2334	B1	3164	B2	3401	C1	7106	B1
2348	C2	3165	B2	3402	C1	7202	B2
2349	C2	3166	B2	3403	C1	7207	A2
2350	C2	3168	A2	3404	C1	7208	A1
2351	B2	3173	A1	3405	C1	7209	B2
2407	C2	3174	A2	3406	C1	7405	C1
2409	A1	3175	A2	3407	C1	7412	C1
2415	B1	3177	B2	3408	C1	7413	B1
2418	C1	3178	B2	3409	C1		
2422	C1	3179	B2	3410	C1		
2426	C1	3180	B2	3411	C1		
2428	C1	3181	B2	3412	C2		
2430	B1	3182	B2	3413	C2		
2431	C1	3183	B2	3414	B1		
2433	C1	3184	B2	3415	B1		
2434	C1	3185	B2	3416	C1		
2435	A1	3186	B2	3422	B1		
2437	A1	3187	B2	3423	B1		
2438	A1	3188	B2	3424	B1		
2439	C1	3189	B2	3425	B1		
2441	C2	3190	A2	3426	B1		
2445	C1	3191	A2	3427	B1		
2446	C1	3192	A2	3428	B1		
2447	C1	3196	B2	3429	B1		
2448	C1	3197	B2	3430	B1		
2449	B1	3198	B2	3431	B1		

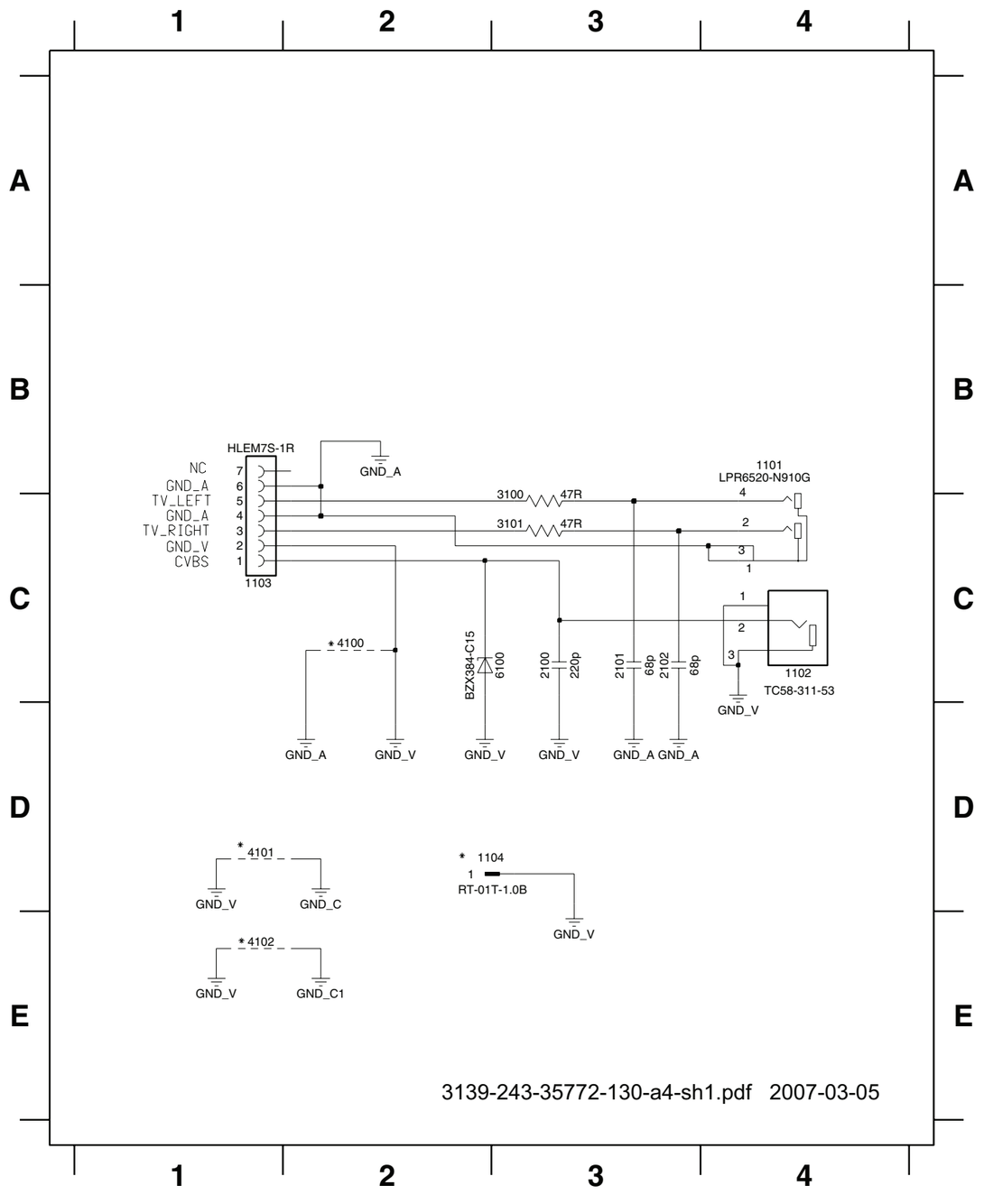
PWB Layout: HDMI Board (Bottom view)



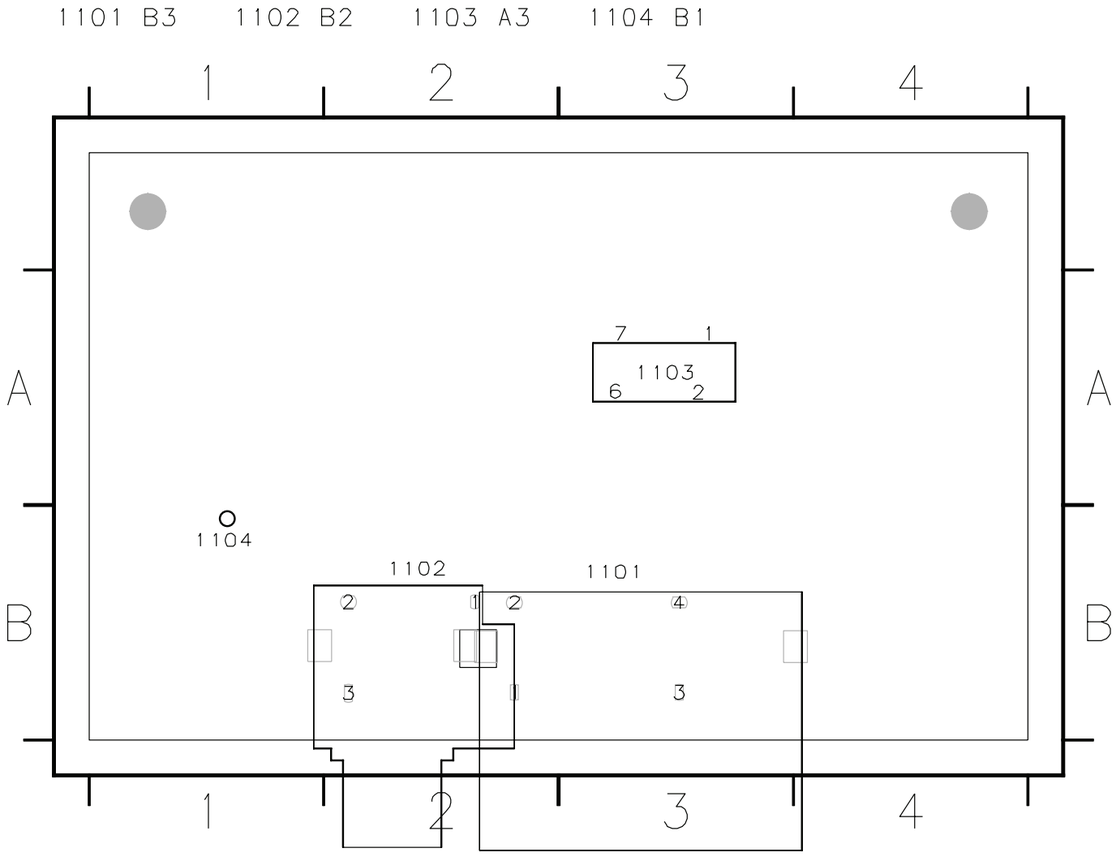
1310	A1	2402	C2	3300	C1	4416	B2
1404	A2	2403	C2	3302	C1	4418	C2
2101	A1	2404	C2	3303	C1	5100	A1
2102	A1	2405	C2	3304	C1	5101	A1
2106	A1	2406	C2	3305	C1	5102	A1
2109	A1	2408	C1	3306	C1	5201	B1
2110	A1	2410	C2	3307	C1	5202	B1
2111	B1	2411	C2	3309	C1	5203	B1
2112	B1	2412	C2	3310	C1	5300	C1
2114	A1	2413	C2	3311	C1	5301	B1
2115	A1	2414	C2	3312	C1	5302	A1
2116	A1	2419	C2	3313	C1	5303	B1
2118	A1	2420	C2	3314	B2	5304	B1
2119	B1	2421	C2	3316	C1	5305	C1
2122	A1	2423	C2	3317	C1	5307	C1
2123	A1	2424	C2	3318	C1	5309	A1
2124	A1	2425	C2	3319	C1	5310	A1
2125	A1	2427	C2	3320	C1	5312	A2
2126	B1	2429	C2	3321	C1	5313	B1
2127	B1	2432	C2	3330	C1	5314	C1
2128	A1	2436	A2	3331	C1	5315	C1
2130	A2	2440	C2	3332	C1	5320	C1
2131	A2	2442	C2	3333	B1	5322	B2
2132	A2	2444	C2	3334	B1	5323	B1
2133	A2	3100	A1	3335	C1	5401	C1
2134	A1	3101	A1	3336	C1	5402	C2
2135	A1	3102	A1	3337	C1	5403	C2
2136	A1	3105	A1	3338	C1	5406	A2
2138	A1	3106	A1	3340	C1	6300	C1
2139	A1	3120	A1	3341	C1	6301	C1
2140	A2	3127	A1	3343	B1	6302	C1
2141	A2	3128	A1	3344	C1	6412	A2
2142	A2	3130	A1	3418	C2	7103	A1
2143	A2	3131	A1	3419	C2	7104	C2
2144	A2	3132	A1	3443	C2	7105	C2
2145	A2	3134	A1	3444	C2	7121	A2
2146	A2	3135	A1	3447	C2	7122	A2
2147	A2	3167	A2	3448	C2	7201	B2
2148	A1	3169	B1	3450	C2	7203	B2
2149	A1	3170	A2	3451	C2	7204	B2
2154	A1	3171	A2	3452	C2	7206	B2
2210	B2	3172	A2	3456	C2	7300	B1
2211	B1	3202	B2	3463	C2	7301	C1
2212	B1	3207	B1	3464	C2	7302	C1
2213	C1	3208	B1	4100	A1	7303	C1
2214	B1	3209	B1	4101	A1	7310	C1
2216	B1	3210	B1	4105	A1	7406	C2
2217	C1	3211	B1	4200	A1	7407	C2
2218	B1	3218	B2	4201	A1	7418	A2
2219	B1	3219	B2	4209	B1	7419	B2
2224	A1	3220	B1	4210	B1	7420	B2
2226	A1	3221	B1	4211	A1		
2300	C1	3222	B2	4213	C1		
2302	C1	3223	B2	4214	B1		
2303	C1	3224	B2	4218	A1		
2305	B1	3225	B2	4220	B2		
2306	C1	3228	B2	4221	B2		
2307	B1	3258	B1	4222	B2		
2309	B1	3259	B1	4224	A2		
2311	C1	3263	B2	4314	C1		
2312	C1	3264	B2	4315	C1		
2313	C1	3270	B2	4316	C1		
2316	B1	3271	B2	4318	C1		
2318	C1	3272	B2	4322	C1		
2319	C1	3273	B2	4323	C1		
2332	B1	3276	B2	4324	C1		
2333	B1	3281	B2	4325	C2		
2335	C1	3282	A1	4331	C1		
2336	C1	3283	A1	4332	C1		
2337	C1	3284	A1	4333	C1		
2338	C1	3285	A1	4334	C1		
2340	C1	3291	B2	4401	C2		
2341	C1	3292	B2	4402	C2		
2342	C1	3293	B2	4403	C2		
2344	C1	3294	B1	4404	C2		
2355	C2	3295	C1	4405	C2		
2361	C1	3296	B1	4406	C2		
2401	C2	3297	B1	4415	B2		

AVIO Board: Circuit Diagram (/37/59 only)

1101 B4 1103 C1 2100 C3 2102 C3 3101 C3 4101 D1 6100 C3
1102 C4 1104 D3 2101 C3 3100 C3 4100 C2 4102 E1

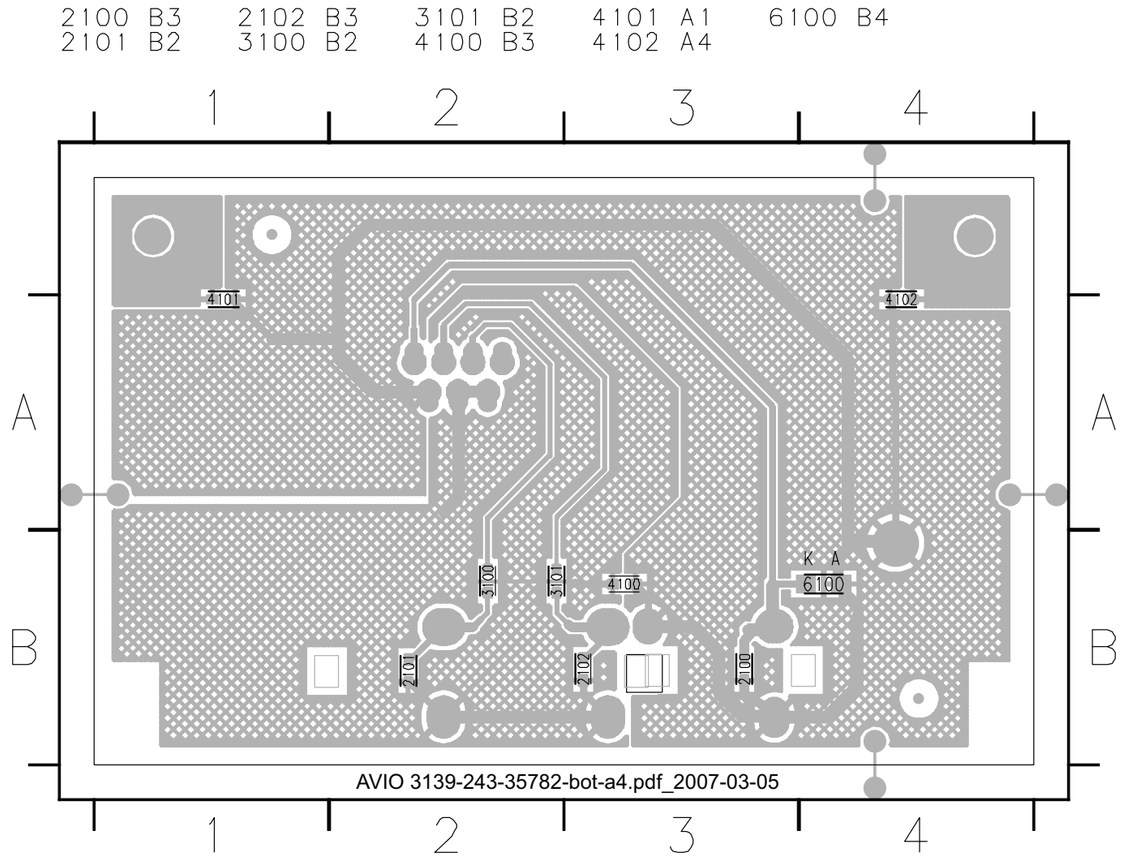


PWB Layout: AVIO Board (Top view)



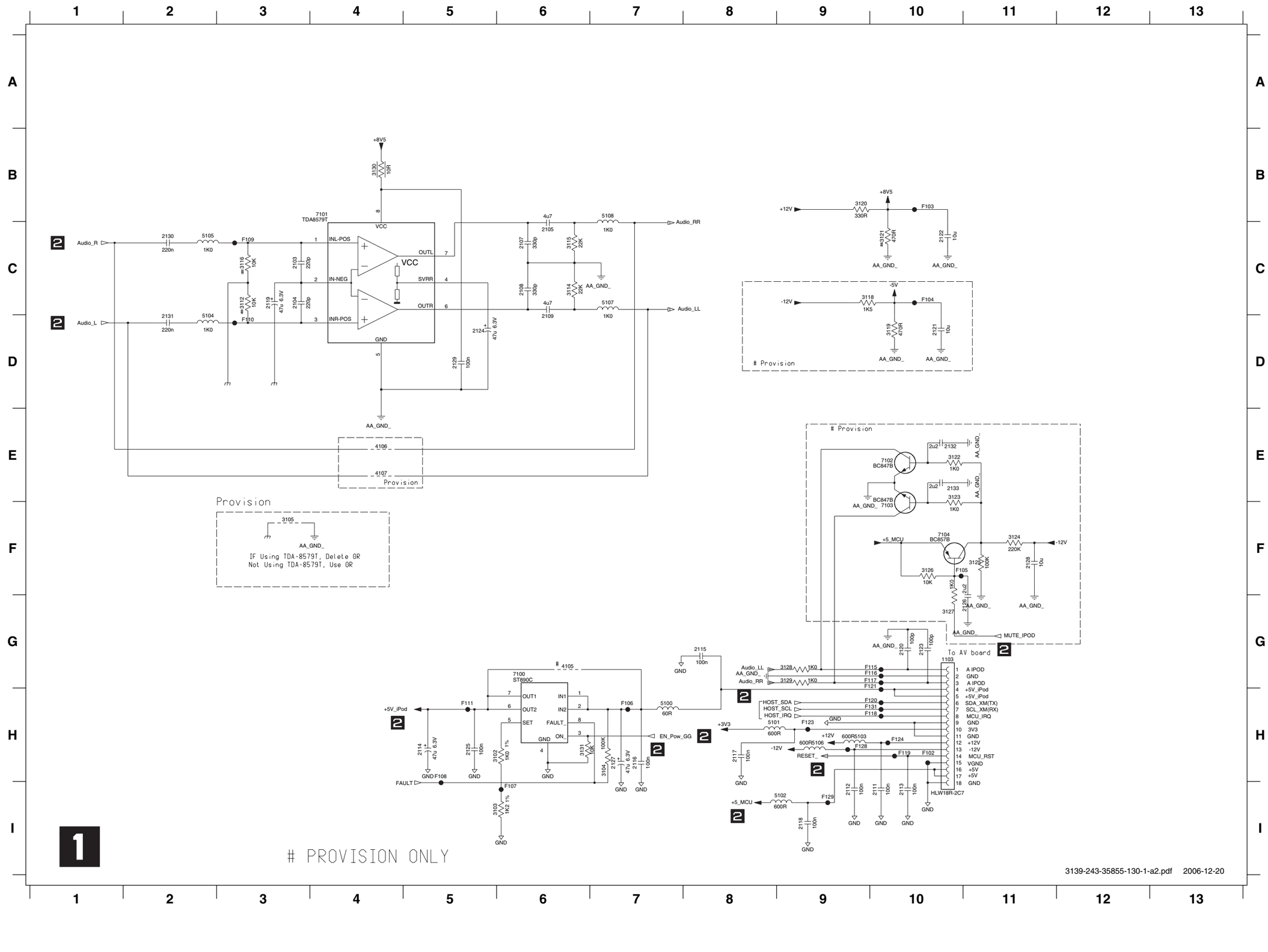
AVIO 3139-243-35782-bot-a4.pdf_2007-03-05

PWB Layout: AVIO Board (Bottom view)



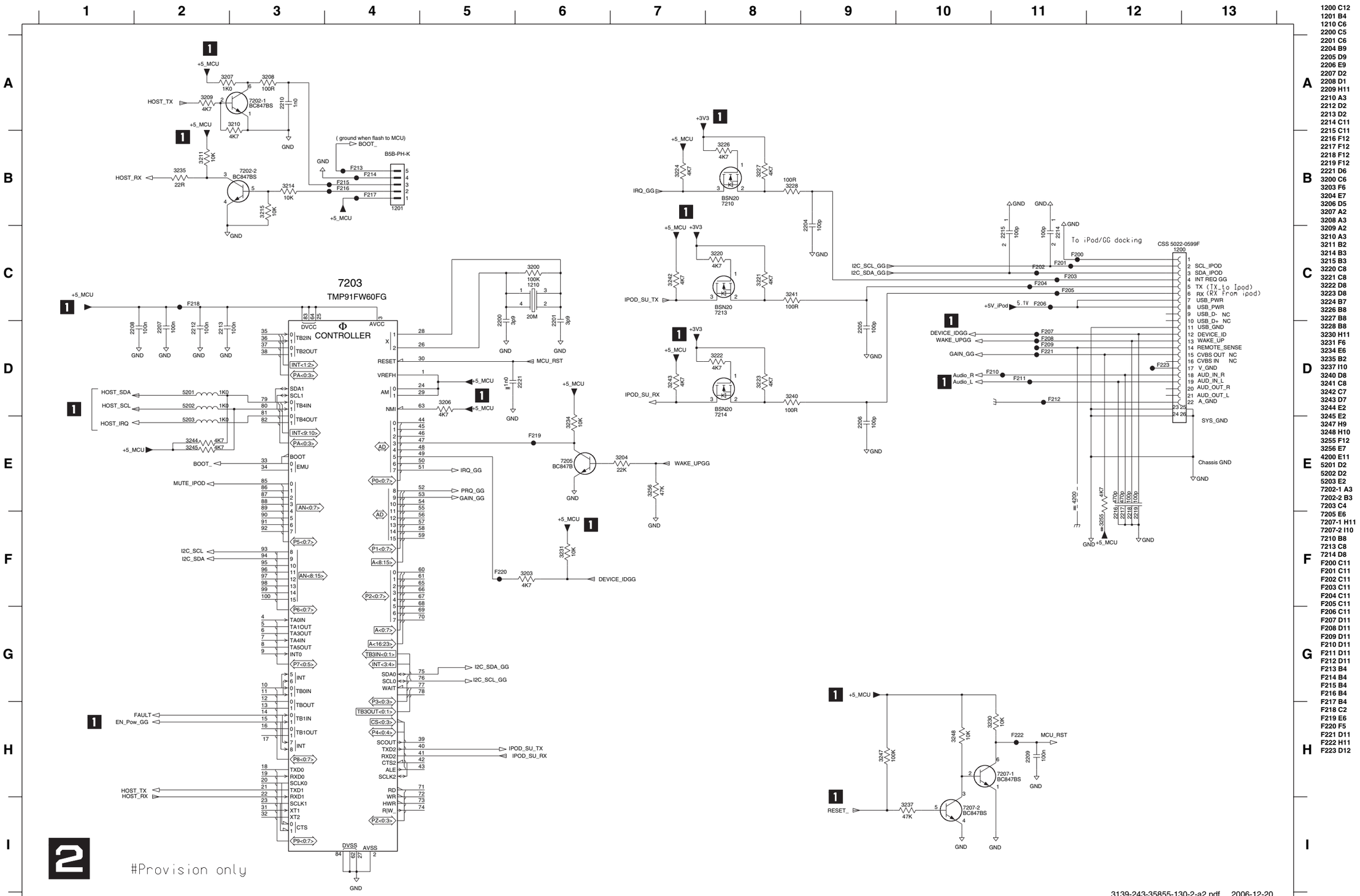
AVIO 3139-243-35782-bot-a4.pdf_2007-03-05

IPOD Board: Circuit Diagram (Part 1)



1103 G10
2103 C3
2104 C3
2105 C6
2107 C6
2108 C6
2109 C6
2111 I10
2112 I9
2113 I10
2114 H5
2115 G8
2116 H7
2117 H8
2118 I9
2119 C3
2120 G10
2121 D10
2122 C10
2123 G10
2124 D5
2125 H5
2126 G11
2127 H7
2128 F11
2129 D5
2130 C2
2131 D2
2132 E10
2133 E10
3102 H6
3103 I6
3104 H7
3105 F3
3112 C3
3114 C6
3115 C6
3116 C3
3118 C9
3119 D10
3120 B9
3121 C10
3122 E10
3123 E10
3124 F11
3125 F11
3126 F10
3127 G10
3128 G9
3129 G9
3130 B4
3131 H6
4105 G6
4106 E4
4107 E4
5100 H7
5101 H8
5102 I9
5103 H9
5104 D2
5105 C2
5106 H9
5107 C7
5108 B7
7100 G6
7101 B4
7102 E10
7103 F10
7104 F10
F102 H10
F103 B10
F104 C10
F105 F10
F106 H7
F107 I6
F108 H5
F109 C3
F110 D3
F111 H5
F115 G10
F116 G10
F117 G10
F118 H10
F119 H10
F120 H10
F121 G10
F123 H9
F124 H10
F128 H9
F129 I9
F131 H10

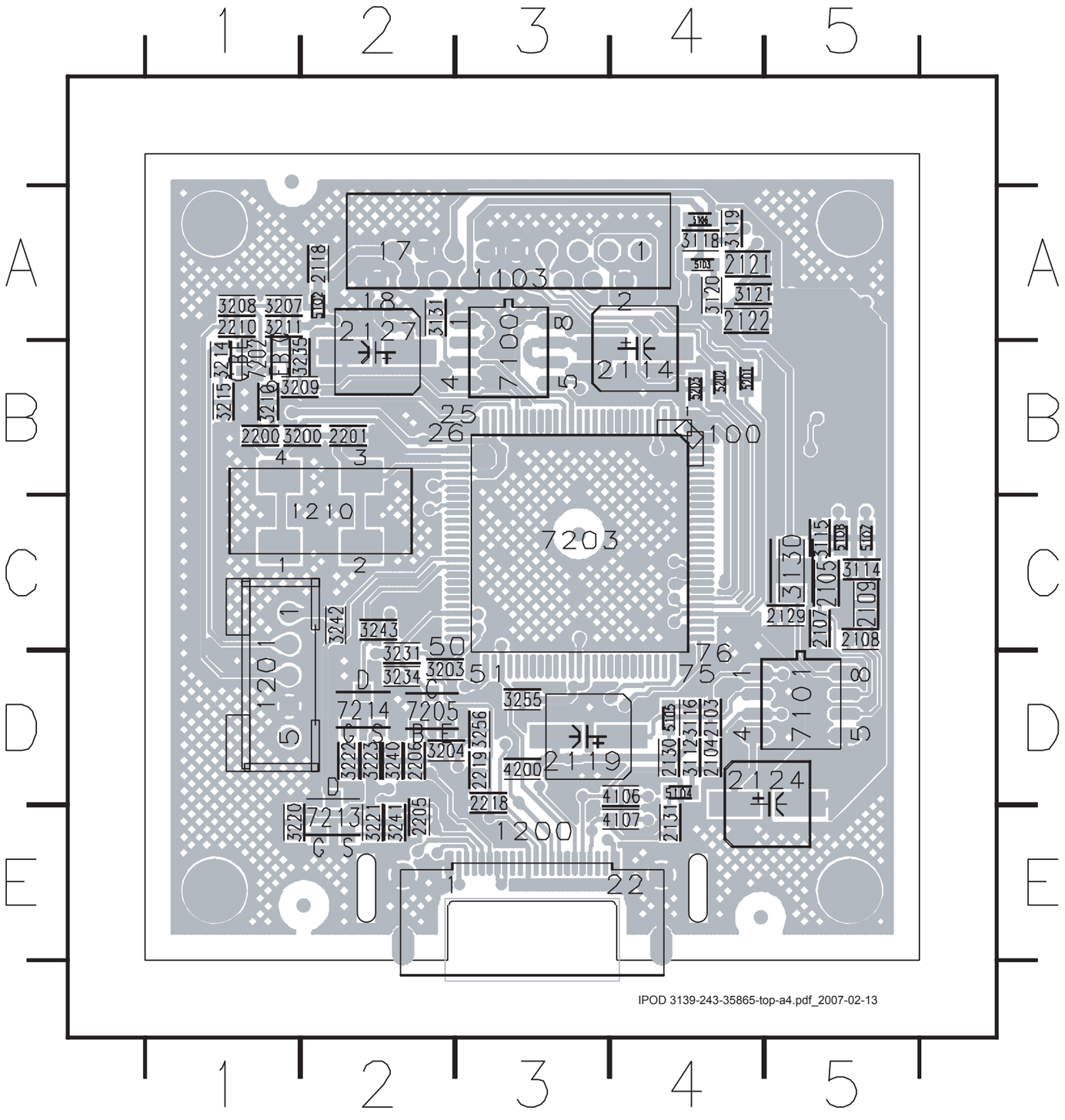
IPOD Board: Circuit Diagram (Part 2)



3139-243-35855-130-2-a2.pdf 2006-12-20

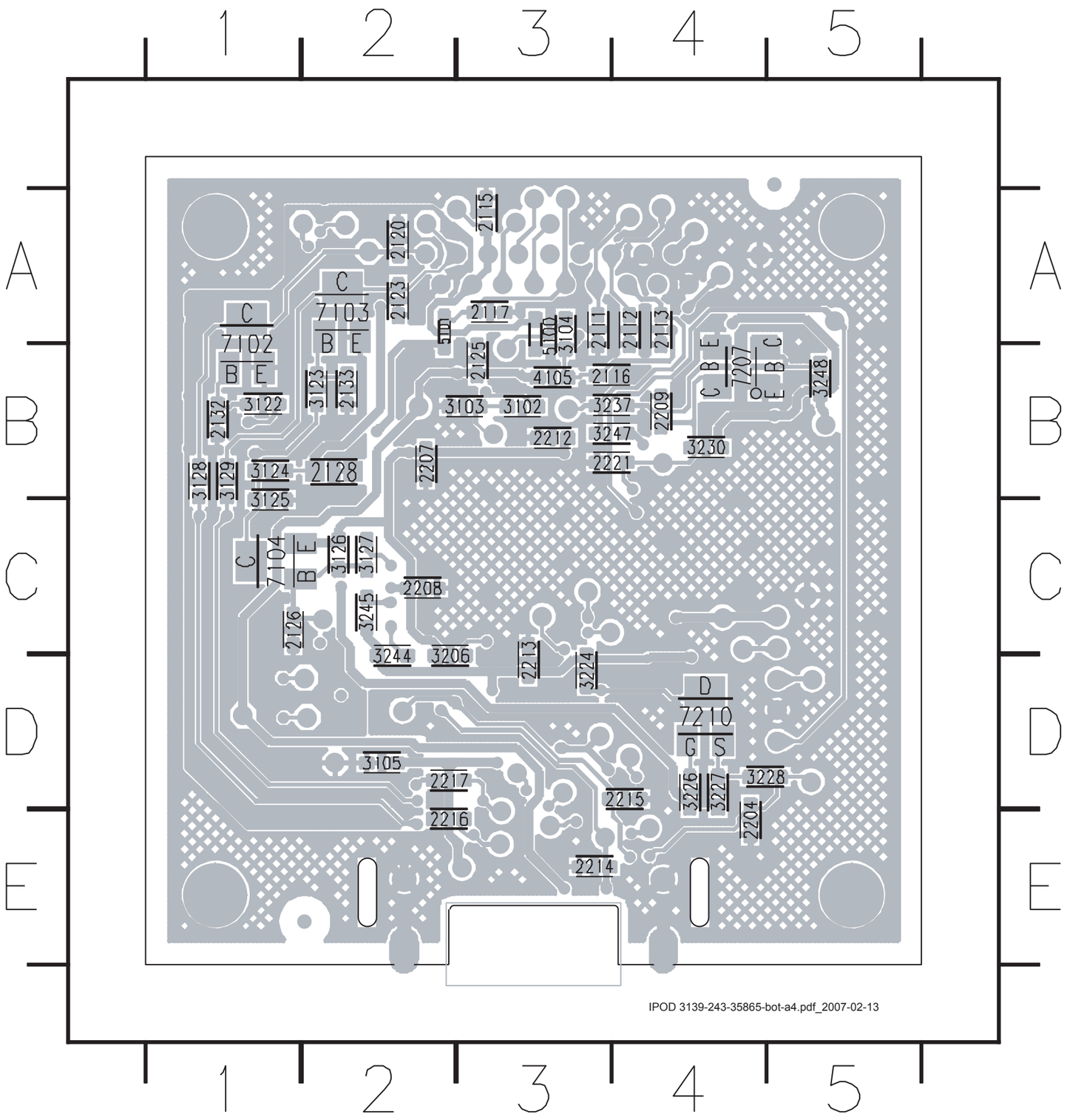
1200 C12
1201 B4
1210 C6
2200 C5
2201 C6
2204 B9
2205 D9
2206 E9
2207 D2
2208 D1
2209 H11
2210 A3
2212 D2
2213 D2
2214 C11
2215 C11
2216 F12
2217 F12
2218 F12
2219 F12
2221 D6
3200 C6
3203 F6
3204 E7
3206 D5
3207 A2
3208 A3
3209 A2
3210 A3
3211 B2
3214 B3
3215 B3
3220 C8
3221 C8
3222 D8
3223 D8
3224 B7
3226 B8
3227 B8
3228 B8
3230 H11
3231 F6
3234 E6
3235 B2
3237 I10
3240 D8
3241 C8
3242 C7
3243 D7
3244 E2
3245 E2
3247 H9
3248 H10
3255 F12
3256 E7
4200 E11
5201 D2
5202 D2
5203 E2
7202-1 A3
7202-2 B3
7203 C4
7205 E6
7207-1 H11
7207-2 I10
7210 B8
7213 C8
7214 D8
F200 C11
F201 C11
F202 C11
F203 C11
F204 C11
F205 C11
F206 C11
F207 D11
F208 D11
F209 D11
F210 D11
F211 D11
F212 D11
F213 B4
F214 B4
F215 B4
F216 B4
F217 B4
F218 C2
F219 E6
F220 F5
F221 D11
F222 H11
F223 D12

PWB Layout: IPOD Board (Top view)



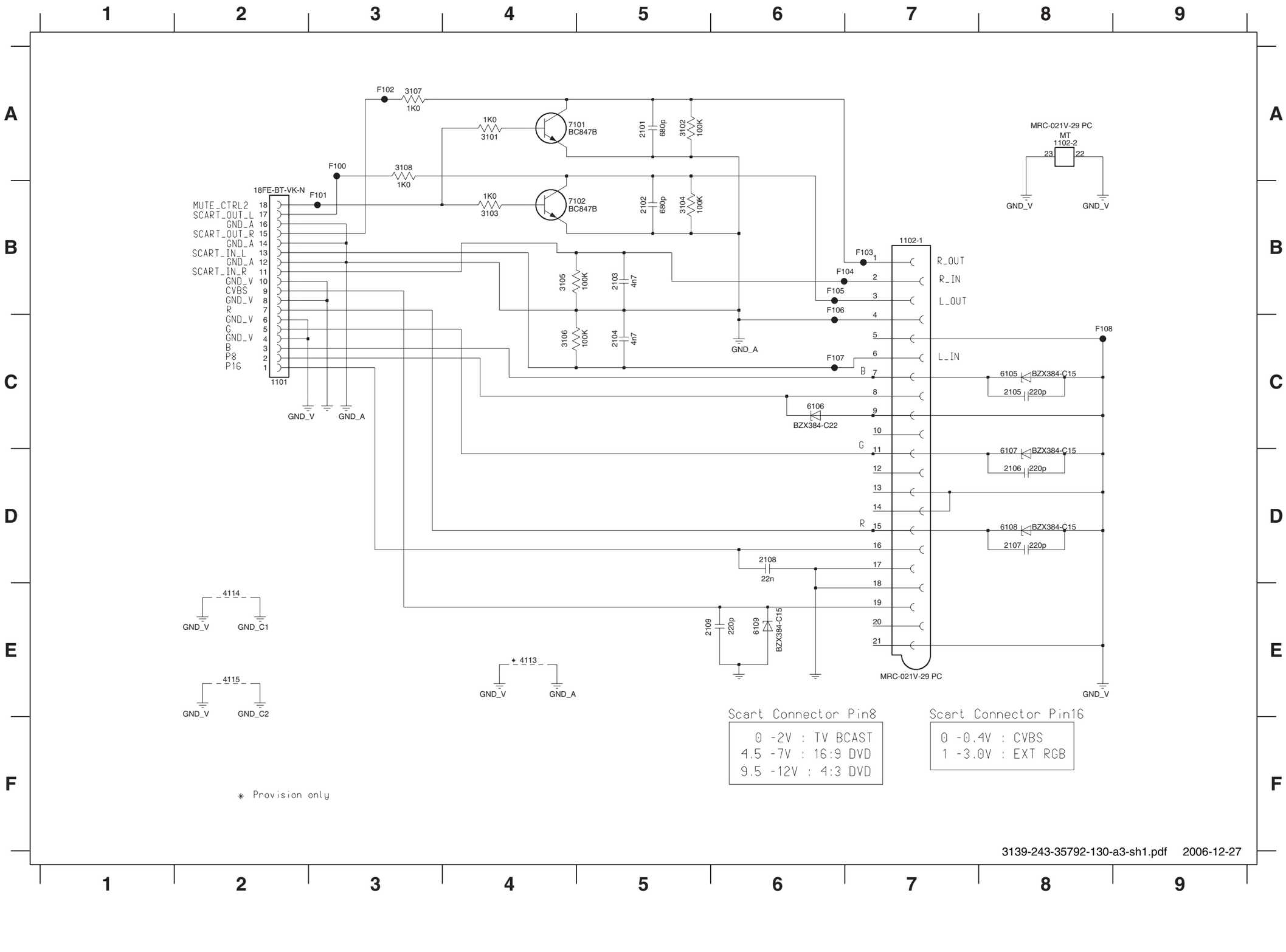
1103	A3	3200	B2	7101	D5
1200	E3	3203	D2	7202	B1
1201	D1	3204	D2	7203	C3
1210	C2	3207	A1	7205	D2
2103	D4	3208	A1	7213	E2
2104	D4	3209	B1	7214	D2
2105	C5	3210	B1		
2107	C5	3211	A1		
2108	C5	3214	B1		
2109	C5	3215	B1		
2114	B4	3220	E1		
2118	A2	3221	E2		
2119	D3	3222	D2		
2121	A4	3223	D2		
2122	A4	3231	D2		
2124	D5	3234	D2		
2127	A2	3235	B1		
2129	C5	3240	D2		
2130	D4	3241	E2		
2131	E4	3242	C2		
2200	B1	3243	C2		
2201	B2	3255	D3		
2205	E2	3256	D3		
2206	D2	4106	D4		
2210	A1	4107	E4		
2218	D3	4200	D3		
2219	D3	5102	A2		
3112	D4	5103	A4		
3114	C5	5104	D4		
3115	C5	5105	D4		
3116	D4	5106	A4		
3118	A4	5107	C5		
3119	A4	5108	C5		
3120	A4	5201	B4		
3121	A4	5202	B4		
3130	C5	5203	B4		
3131	A2	7100	B3		

PWB Layout: IPOD Board (Bottom view)



2111	A3	3224	D3
2112	A4	3226	D4
2113	A4	3227	D4
2115	A3	3228	D4
2116	B3	3230	B4
2117	A3	3237	B4
2120	A2	3244	D2
2123	A2	3245	C2
2125	B3	3247	B4
2126	C1	3248	B5
2128	B2	4105	B3
2132	B1	5100	A3
2133	B2	5101	A2
2204	E4	7102	B1
2207	B2	7103	A2
2208	C2	7104	C1
2209	B4	7207	B4
2212	B3	7210	D4
2213	D3		
2214	E3		
2215	D4		
2216	E2		
2217	D2		
2221	B4		
3102	B3		
3103	B3		
3104	A3		
3105	D2		
3122	B1		
3123	B2		
3124	B1		
3125	C1		
3126	C2		
3127	C2		
3128	B1		
3129	B1		
3206	D2		

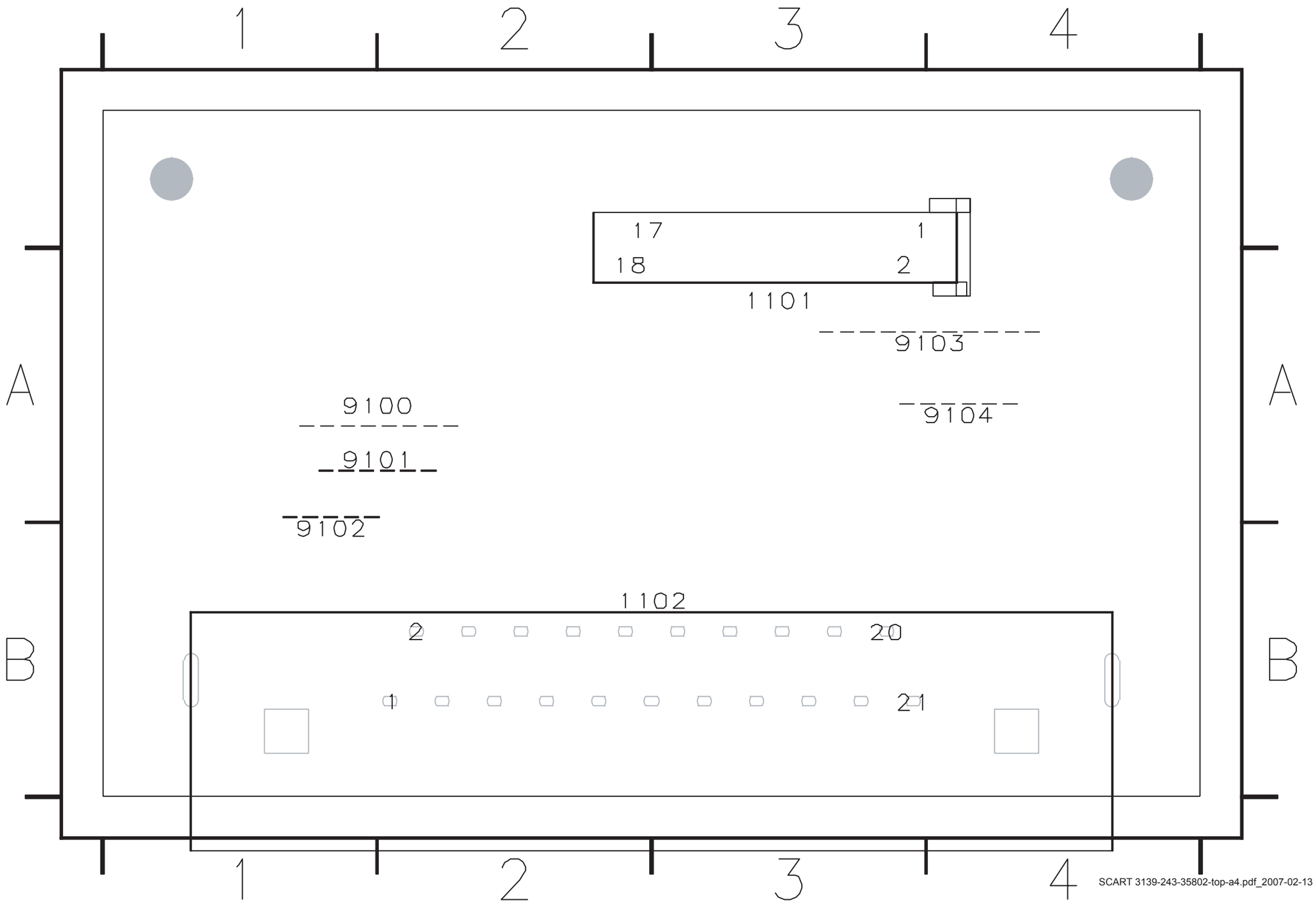
AVIO Board: Circuit Diagram (/05/12 only)



1101 C2
1102-1 B7
1102-2 A8
2101 A5
2102 B5
2103 B5
2104 C5
2105 C8
2106 D8
2107 D8
2108 D6
2109 E5
3101 A4
3102 A5
3103 B4
3104 B5
3105 B4
3106 C4
3107 A3
3108 A3
4113 E4
4114 E2
4115 E2
6105 C8
6106 C6
6107 D8
6108 D8
6109 E6
7101 A4
7102 B4
F100 A3
F101 B3
F102 A3
F103 B7
F104 B7
F105 B6
F106 B6
F107 C6
F108 C8

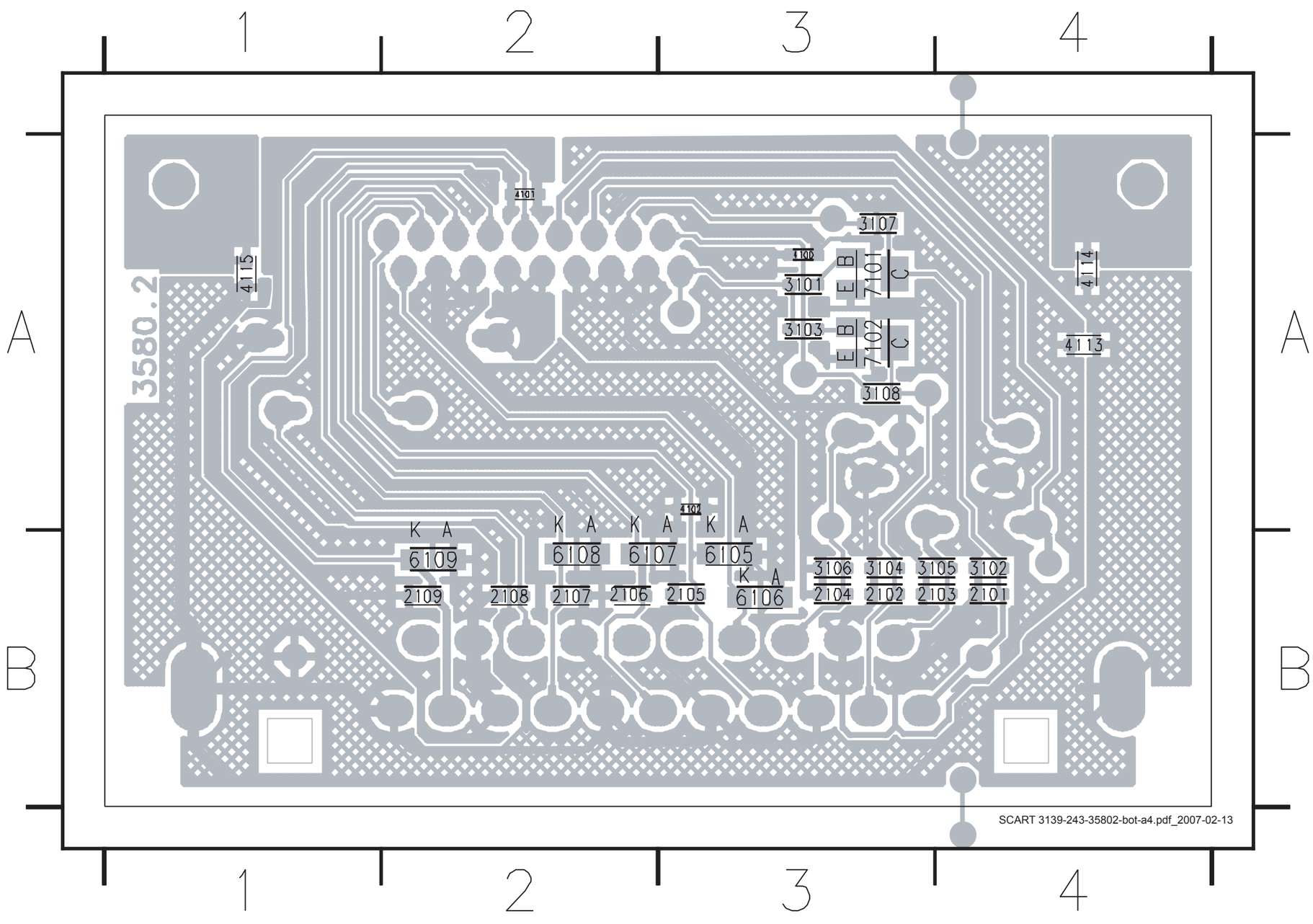
PWB Layout: SCART Board (Top view)

1101 A3
1102 B2
9100 A1
9101 A1
9102 B1
9103 A4
9104 A4



PWB Layout: SCART Board (Bottom view)

2101 B4	2106 B2	3102 B4	3107 A3	4113 A4	6107 B2
2102 B3	2107 B2	3103 A3	3108 A3	4114 A4	6108 B2
2103 B4	2108 B2	3104 B3	4100 A3	4115 A1	6109 B2
2104 B3	2109 B2	3105 B4	4101 A2	6105 B3	7101 A3
2105 B3	3101 A3	3106 B3	4102 A3	6106 B3	7102 A3



Notes:

8 Exploded View

8.1 Main Unit Exploded View

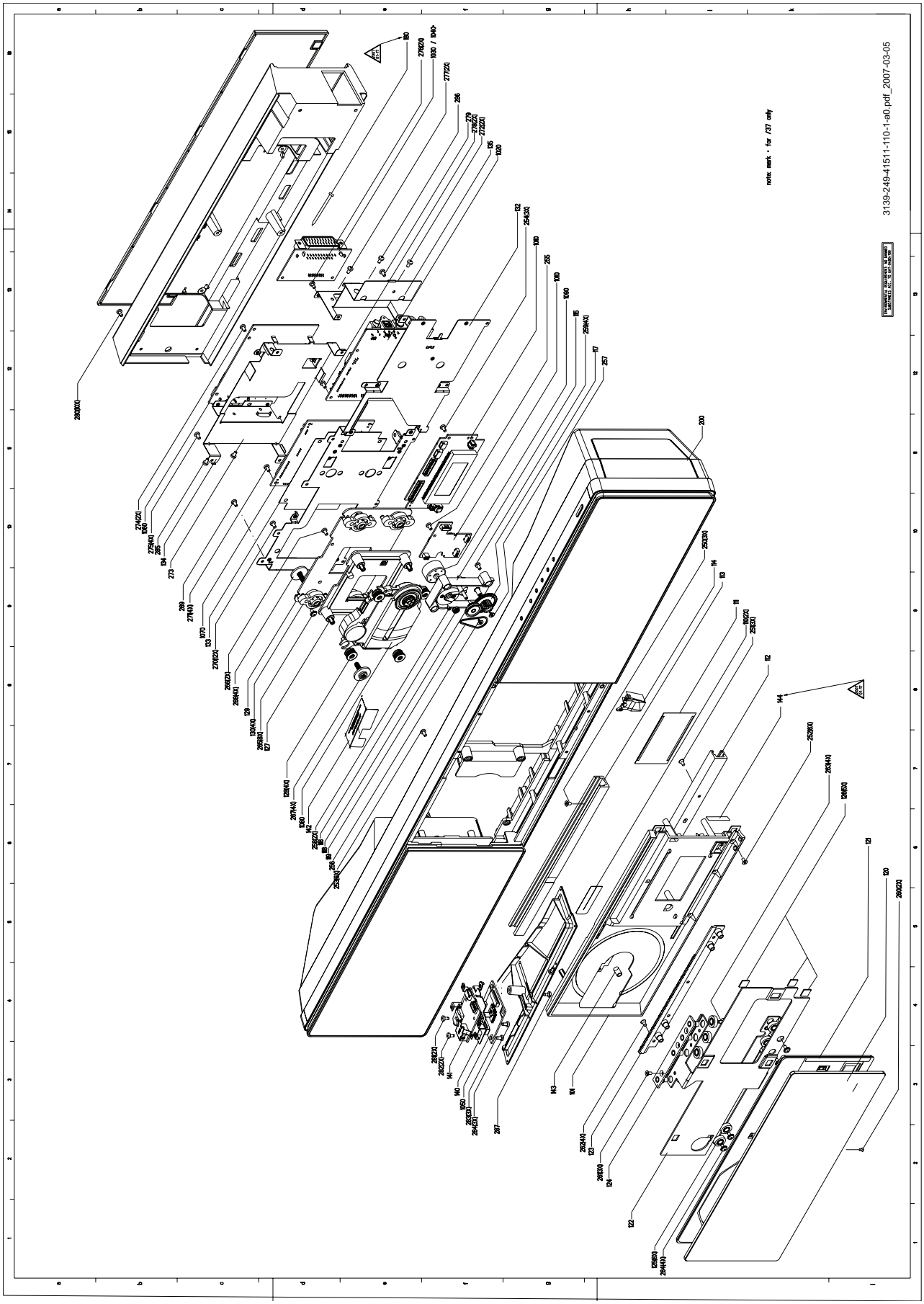


Figure 8-1

8.2 Power Box Exploded View

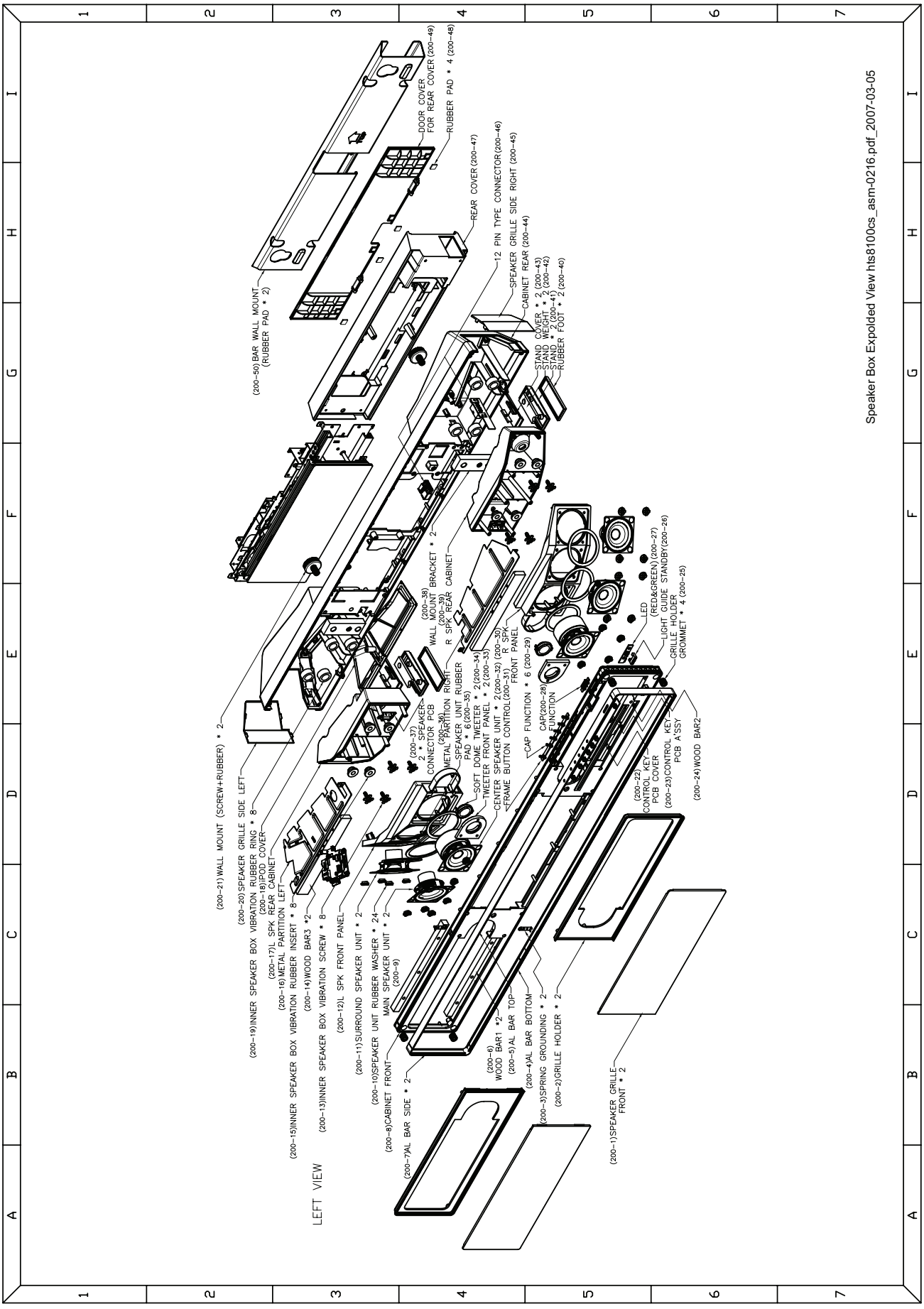


Figure 8-2

MISCELLANEOUS

0115	313924415341		BRACKET GEARBOX HTS8100
0116	313924414991		PULLEY SMALL HTS6600
0117	313924415331		GEAR PINION HTS8100
0118	313924415321		GEAR INTERMEDIATE HTS8100
0119	313924415011		BELT HTS6600
0128	313924408661		CUSHION ASA TP DLM1D_18_12
0132	313924126101		FRAME REAR HTS8100
0161	313924125701		PLATE BOTTOM POWERBOX-07 /59 only
0230	313924126221		PLATE REAR PBOX HTS8100 LA/AP /59 only
0337	242207600546		ANT FM WIRE 0M94 24AWG BK B
0338	242254945813		ANT AM LOOP 039S20014 B alternative for /12
0338	242254945386		ANT AM LOOP LAN-011 B
0341	242254901403		REMOTE CONTR HTS8100/EU B
0346	313912873011	⚠	MAINS PLUG ADAPTER GR1-AX /59 only
0347	242207600831		CBLE CINCH 1M5 CINCH 1P YE B /37/59 only
0348	242207600675		CBLE PHONE 2M0 CINCH 2P RDWH B /12 only
0349	242207600865		CBLE HDMI 19P 1M5 19P HDMI BKB /37/59 only
0350	242207600912		CBLE PHONE 1M0 PHONE 3P BK B
0351	242207600891		CBLE SCART 1M5 SCART 21P BK B /12 only
0486	313924713691		IG DOCK HTD7001/00 /12 only
0702	314010638732		FITTING-PALLET /37 only
0704	284302502961		BOARD 200P4 /12 only
0710	310310327151		STRETCHFOIL 500/15 /12 only
0716	284302502821		CORNER PROTECTOR 1100 /12 only
1010	313924851282		PCBAS PANEL FRONT HTS8100
1020	313924850892		PCBAS AV EU HTS8100 /12 only
1020	313924850812		PCBAS AV AP HTS8100 /37/59 only
1030	313924850782		PCBAS AVIO HTS8100 /37/59 only
1040	313924850792		PCBAS SCART HTS8100 /12 only
1050	313924850821		PCBAS IPOD HTS8100
1060	313924852322		PCBAS HDMI HTS8100
1070	313924851782		PCBAS SD9.2 HTS8100/12 /12 only
1070	313924850802		PCBAS SD9.2 HTS8100/37 /37 only
1070	313924851782		PCBAS SD9.2 HTS8100/12 /59 only
1080	242254901249		DVD MECHANISM KHM-313AHC Y
1090	242211500102		MOT DC 4V FC08I40TPH-1 Y
8003	313924100851		FFC FOIL 24P/180/24P AD 0.5MMP
8004	313911103761		CBLE PH 06P/180/06P PH 28ST BK
8005	310415702361		CBLE PH 05P/280/05P PH 26ST BK
8006	313911101741		CBLE MIS 11P/280/11P MIS 26OS
8007	313911103011		CBLE MIS 04P/400/04P MIS 26OS
8008	313924103031		FFC FOIL 26P/120/26P AD 0.5MMP /12/37 only
8008	313924103721		FFC FOIL 26P/140/26P AD 0.5MMP /59 only
8009	313924103021		FFC FOIL 50P/120/50P BD 0.5MMP
8010	313924103591		FFC FOIL 21P/240/21P AD FOLD
8011	313924103741		FFC FOIL 16P/140 AD FOLD SHLD
8012	313924103001		CBLE PH 04P/480/04P PH 26ST BK
8013	313911102671		CABLE MIS 09P/100/09P MIS 26OS
8014	313924102991		FFC FOIL 18P/120/18P AD /12 only
8015	313911034951		FFC FOIL 07P/120/07P AD /37/59 only
8016	313911027951		CBLE PH 07P/220/07P PH 26ST BK
8017	313924102981		FFC FOIL 18P/560/18P AD 1MMP
8018	313911035471		FFC FOIL 10P/220/10P BD 1MMP
8888	824115016391		Grease G-902 HTS8100 /12/37 only
P001	314107941781		DOOR PANEL PRE-ASSY/12/55 /12/59 only
P001	314107941791		DOOR PANEL PRE-ASSY/37 /37 only
P002	314107941801		FRAME DOOR PRE-ASSY/12/55 /12 only
P002	314107941811		FRAME DOOR PRE-ASSY/37 /37/59 only
P003	314107941821		BRACKET TRAVERSE PRE-ASSY
ZZ01	314107941271		COMPARTMENT DISC HTS8100 (1) /12/37 only

SPEAKER BOX ASSEMBLY

0001	996510003246	LEFT SPEAKER MODULE
0002	996510003247	RIGHT SPEAKER MODULE
0003	996510003248	ACOUSTIC FELT
0004	996510003249	WALL MOUNT BRACKET
0005	996510003250	PCBA FRONT KEY
0006	996510003251	PCBA SWITCH KEY
0007	996510003252	GP SPK CONNECTOR
0008	996510003253	GP INTERFACE
0009	996510003254	GRILLE HOLDER-L
0010	996510003255	CABINET FRONT
0011	996510003263	DOOR COVER FOR REAR COVER
0012	996510003257	BAR MOUNT WALL
0013	996510003258	AL BAR SIDE
0014	996510003259	AL BAR TOP
0015	996510003260	AL BAR BOTTOM
0016	996510003261	RUBBER FOOT L10xW10xT1.5
0017	996510003262	RUBBERFOOT L84.76xW30.19xT5.43

SUBWOOFER TOTAL ASSY

0001	313924713441		BOX SPK ASSY SW8100
0002	313924713381		MODULE PWRBOX HTS8100 NAF /37 only
0002	313924713631		MODULE PWRBOX HTS8100 LATAM/AP /59/12 only
0002	313924713371		MODULE PWRBOX HTS8100 EU /12 Only
0186	313924416041		SPACER SUPPORT-10MM /59/12 only
0238	313911426671		BUSH 450H259010 /37 only
0240	282203100024		FAN 12VDC 0.8W 3100RPM B
0345	242207098151	⚠	MAINSCORD EUR 2A5 1M5 DET 2P B /12 only
0344	242207098235	⚠	MAINSCORD UL 6A 1M8 VH BK B /37 only
0345	242207000062	⚠	MAINSCORD BRZ 2A5 1M8 DET 2P B /59 only
0346	242207600917		CBLE INTERF 2CONN 5M4 4CONN B /37 only
0346	242207600867		CBLE INTERF 2CONN 5M4 4CONN B /59/12 only
1010	313924713432		MODULE AMP-06-01 600W(SONO)
1020	242254200032		TUN A+F ENG06806QRF USA B
1020	242254200031		TUN A+F ENG07806QRF EUR B /12 only
1030	313924713591	⚠	PSU 07T610 US SRV2033UC MIT /37 only
1030	313924713571	⚠	PSU 07T610 WR SRV2035WW MIT /59 Only
1030	313924713581	⚠	PSU 07T610 EU SRV2034EK MIT /12 only

1040	313924851121	PCBAS AUDIO AVR-PB2007 NAFTA /37 only
1040	313924851131	PCBAS AUDIO AVR-PB2007 AP /59 Only
1040	313924851031	PCBAS AUDIO AVR-PB2007 /12 only
1050	313924851151	PCBAS AIO PB-2007 HTS8100
1060	313924851111	PCBAS SPEAKER PB-2007 HTS8100
8000	313924103391	FFC FOIL 10P/080/10P BD
8002	313924103781	FFC FOIL 05P/100/05P AD FOLD alternative for /59
8002	313924103421	FFC FOIL 05P/100/05P AD
8003	313911103091	CBLE MIS 05P/220/05P MIS 26OS
8004	313924103181	CBLE MIS 12P/180/12P MIS 260S
8005	313911101831	CBLE MIS 08P/220/08P MIS 26OS
8006	313924101921	FFC FOIL 20P/080/20P AD
8007	313911036051	FFC FOIL 04P/080/04P AD
8009	313924103151	CBLE MAINS ASSY 100MM /59/12 only