

Service Service Service



Service Manual



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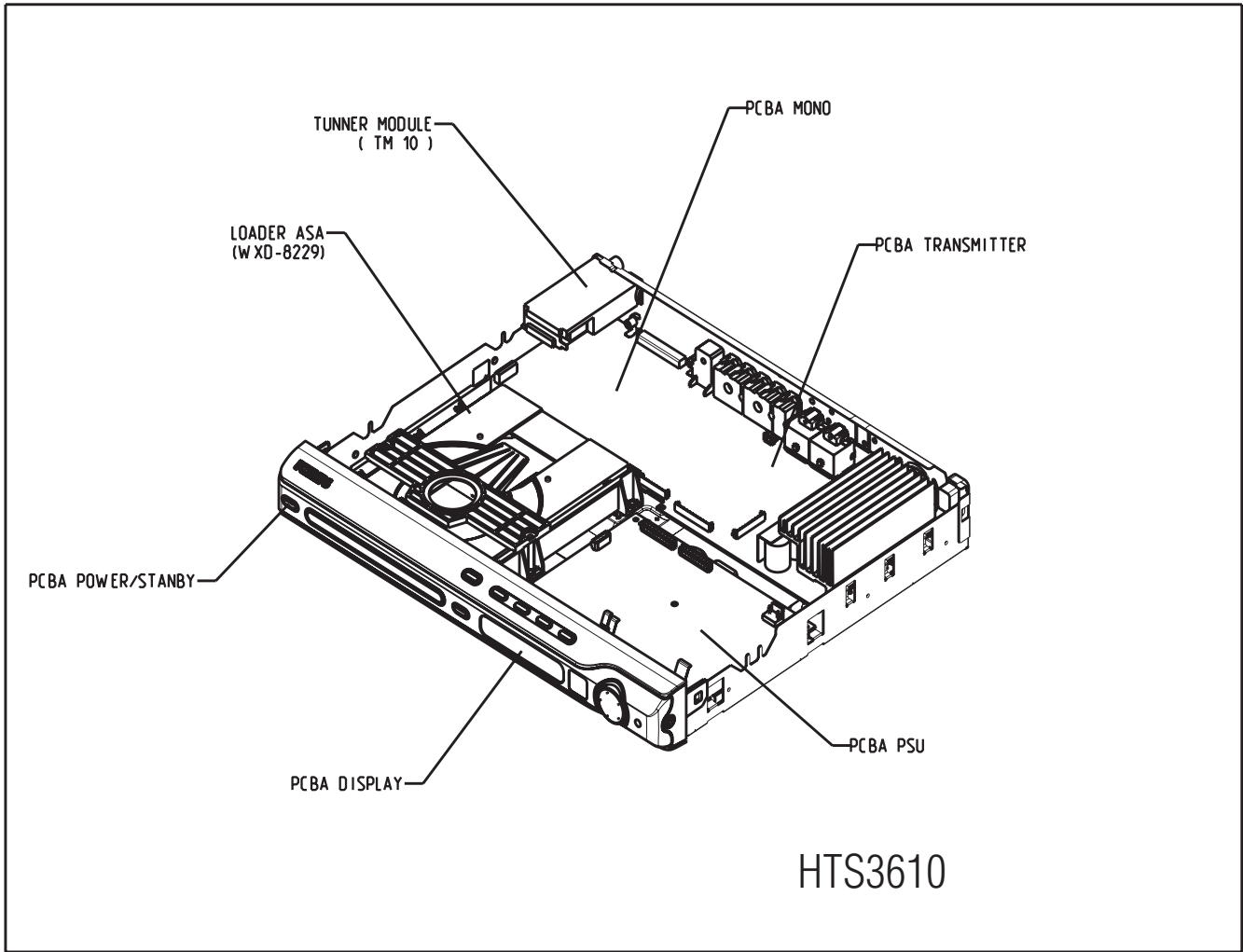
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LOCATION OF PC BOARDS



VERSION VARIATIONS:

	HTS3610/12	HTS3610/51
Video (Yellow, Cinch)	-	-
Component Video, (Y/Pb/Pr) -P-scan	-	-
SCART (CVBS/RGB)	x	x
Digital In - Coaxial	x	x
TV In (Left/Right)	-	-
Auxiliary (Left/Right)	x	x
Line out (Audio)	-	-

1. Specifications

1.1 General:

Mains voltage	: 230V for /05, /12, /51 120V/230V for /55 /93 /98
Mains frequency	: 50/60Hz for /98, /55, /93, 50Hz for /12, /05, /51
Power consumption	: 70W < 0.5W Eco standby power < 70W at 1/8 P _{rated} (For main unit)
Dimension main unit	: 360 x 54 x 324mm

1.2 Tuner FM

Tuning range	: 87.5-108MHz
Grid	: 50kHz for /12, /05, /51 100kHz for /98, /55, /93
IF frequency	: 10.7MHz \pm 25kHz
Aerial input	: 75 Ω coaxial
Sensitivity at 26dB S/N	: < 7 μ V
Selectivity at 600kHz bandwidth	: > 25dB
IF rejection	: > 60dB
Image rejection	: > 25dB
Distortion at RF=1mV, dev. 75kHz	: < 3%
-3dB Limiting point	: 8 μ V
Crosstalk at RF=1mV, dev. 67.5kHz	: > 28dB
Crosstalk at RF=1mV, dev. 40kHz	: > 18dB

MW

Tuning range	: 531-1602kHz for /12, /05, /51, /98, /93, /55 530-1700kHz for /98, /55, /93
Grid	: 9kHz for /12, /05, /51, /98, /93, /55 10kHz for /98, /55, /93
IF frequency	: 450kHz \pm 1kHz
Aerial input	: Frame aerial
Sensitivity at 26dB S/N	: < 4.0mV/M
Selectivity at 18kHz bandwidth	: > 20dB
IF rejection	: > 45dB
Image rejection	: > 28dB
Distortion at RF=50mV, m=80%	: < 5%

1.3 AMPLIFIER:

Output power	
Front	: 100W RMS / channel
Rear	: 75W RMS / channel
Center	: 100W RMS
Subwoofer	: 150W RMS
Frequency response \pm 0.5dB	: 20Hz-20kHz
Hum (Volume Minimum)	: 200nW
Residual noise (Volume Minimum)	: 40nW
Input sensitivity	
Aux In	: 1V \pm 3dB at 22k Ω
Scart In	: 1V \pm 3dB at 22k Ω
Output sensitivity	
Line Out (Left/Right)	: 1V \pm 2dB at 10k Ω
Scart Out (Left/Right)	: 1V \pm 2dB at 10k Ω

1.4 COMPACT DISC/VCD/DVD:

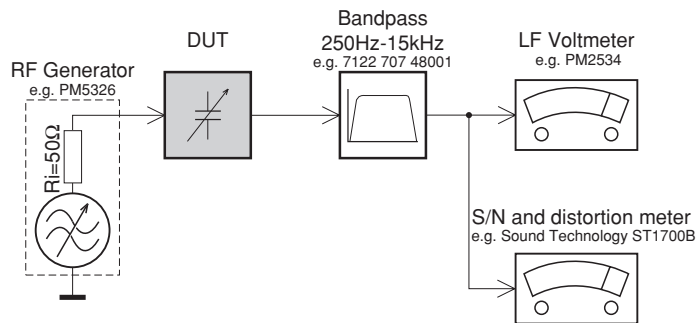
Video Decoding	: MPEG-1/MPEG-2/ MPEG-4/DivX 3.11, 4.x & 5.x
Video DAC	: 12 Bits
Signal System	: PAL / NTSC
Video Format	: 4:3 / 16:9
CVBS Out ¹⁾	
CVBS level	: 1.0 \pm 0.1V _{p-p}
Luminance S/N	: \geq 60dB
S-Video Out ¹⁾	
Y level	: 1.0 \pm 0.1V _{p-p}
Y S/N	: \geq 60dB
C level (burst)	: 286mV _{pp} +1/-4 dB
RGB/YUV Out ¹⁾	
Amplitude	: 0.7 \pm 0.1V _{p-p}
S/N	: \geq 60dB

¹⁾ Output terminals to be terminated with 75 Ω

2.Measurements Setup, Service Aid & Lead Free Requirements

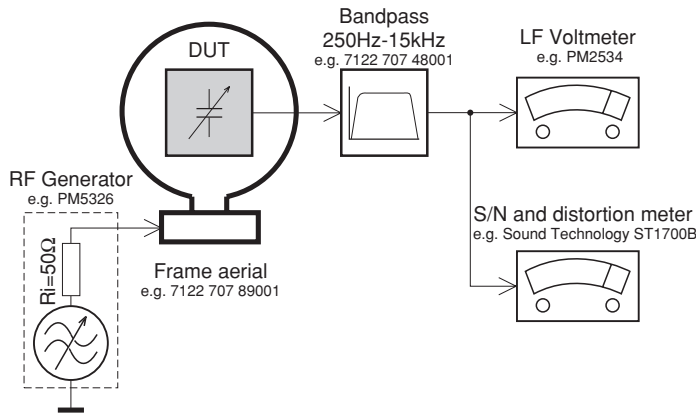
MEASUREMENT SETUP

Tuner FM



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

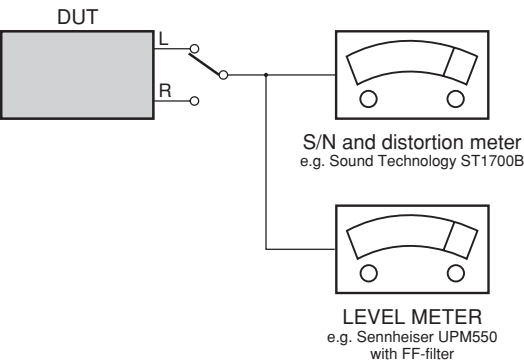
Tuner AM (MW,LW)



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).

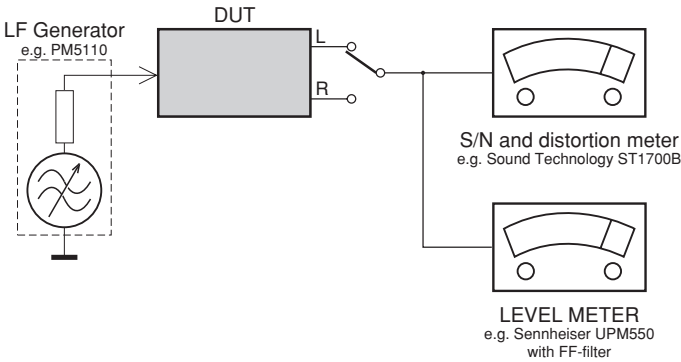
CD

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

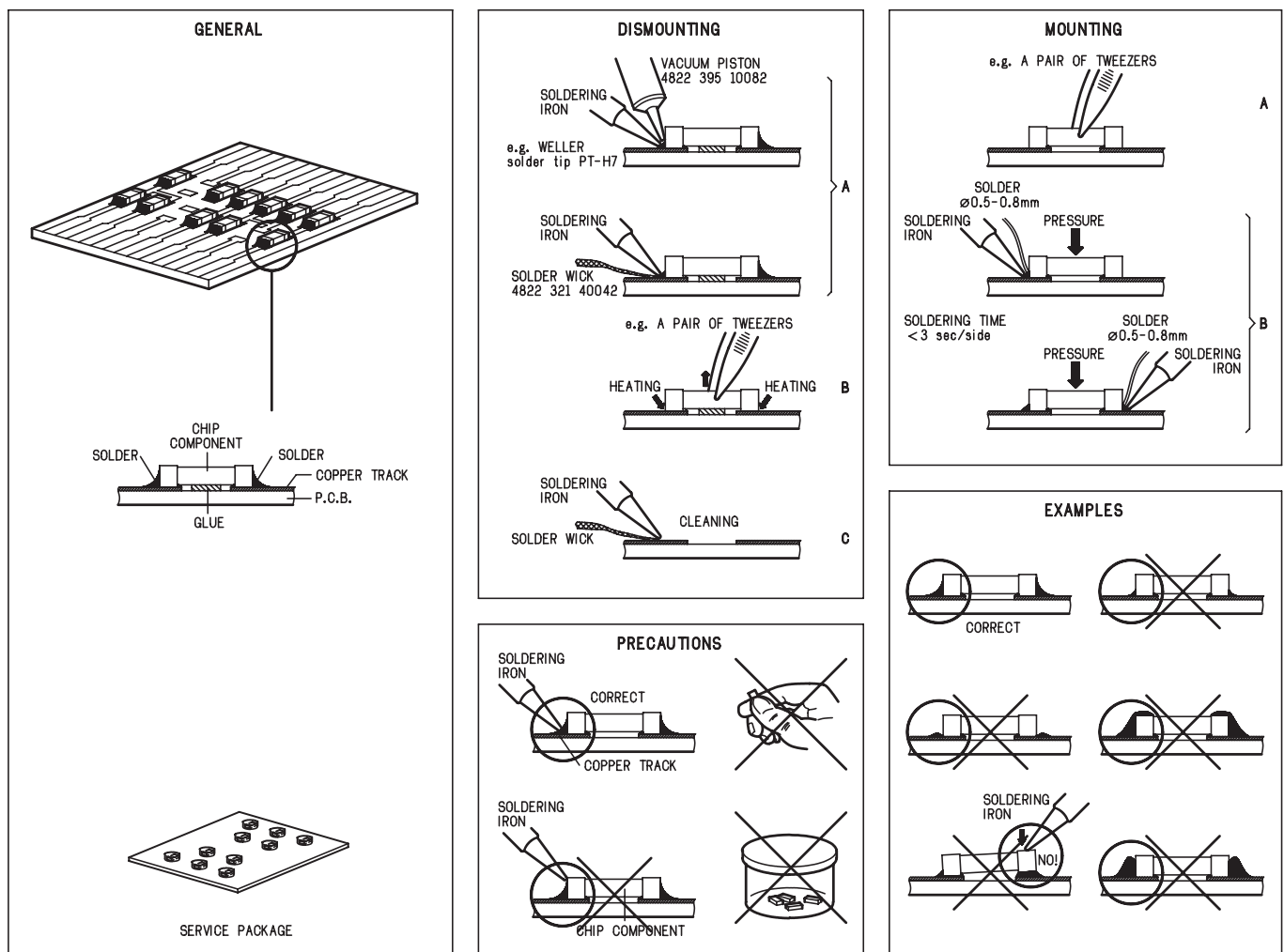
Service Tools:

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



(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.

ESD**(NL) WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.

Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op hetzelfde potentiaal.

(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).

Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.

Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.

Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente 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, extension 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 \triangle .

(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 \triangle

(F)

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

Less composants de sécurité sont marqués \triangle

(D)

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

Sicherheitsbauteile sind durch das Symbol \triangle markiert.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

Componenti di sicurezza sono marcati con \triangle

(GB)

After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA.

**(GB) Warning !**

Invisible laser radiation when open.
Avoid direct exposure to beam.

(S) Varning !

Osynlig laserstrålning när apparaten är öppnad och spårren är urkopplad. Betrakta ej strålen.

(SF) Varoitut !

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 udsættelse 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.

IDENTIFICATION:



Regardless of special logo (not always indicated)

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

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

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

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

- For sets produced before 1.1.2005 (except products of 2004), containing lead-ed solder-alloy and components, all needed spare-parts will be available till the end of the service-period. For repair of such sets nothing changes.

- On our website www.atyourservice.ce.Philips.com you find more information to:

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

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

For additional questions please contact your local repair-helpdesk.

3 Enjoy

Play DVD

- 1 Press **OPEN/CLOSE** on the front of the DVD system to open the disc tray.



- 2 Place DVD in tray with the label facing up.
- 3 Press **OPEN/CLOSE** again.
- 4 Press **UP** , **DOWN** , **RIGHT** or **LEFT** to scroll through the options in the DVD menu.
- 5 Press **PLAY** on the option you want.
- 6 To stop press **STOP** .

Tip Press **PLAY** to resume from where you stopped or press **STOP** and **PLAY** to start from the beginning of the title.

7 Press **DISC MENU** to go back to the DVD menu.

Listen to Radio

- 1 Press **TUNER** . Front display **AUTO INSTALL PRESS PLAY** appears.
 - 2 Press and hold **PLAY** until **START** appears.
- Tip** This feature is only available for first time setup, refer to user manual if you wish to program radio stations again or for manual programming.
- 3 Once completed you can use **NEXT** or **PREVIOUS** to select a radio station.



Experience Surround Sound

- 1 Press **SURR** to switch between Stereo and Multi-channel.
- 2 Press **SOUND** for either Concert, Drama, Action or Sci-fi preset digital sound effects.

Troubleshooting

For more troubleshooting tips, see the user manual.

Problem

No power

- Check if the AC power cord is properly connected.

No picture

- Press the **STANDBY-ON** on the front of the DVD system to turn on the power.
- Press **DISC** on remote control.

No sound or distorted sound

- Check connection to TV and ensure the plugs are firmly in place.

Remote control does not work

- Check the speaker connections and settings.
- Check that the batteries are loaded correctly or replace the batteries with new ones.
- Select the source (**DISC** or **TUNER**, for example) before pressing the function button.
- Reduce the distance between the remote control and the system.
- Point the remote control directly toward the IR sensor.

Need help?

User Manual

For more product information refer to the user manual of the home theatre system.

Online

Go to www.philips.com/support



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Home Theatre System

Quick Start Guide



- 1 Connect
- 2 Setup
- 3 Enjoy

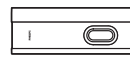
What's in the Box



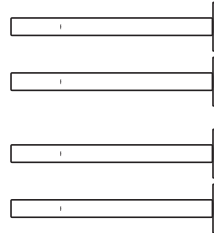
DVD system



Centre speaker



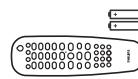
Subwoofer



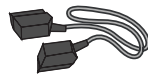
Front speakers (left & right)
Rear speakers (left & right)



Quick start guide



Remote control and 2 batteries



Start cable (black plug)



AM/MW loop antenna



User manual



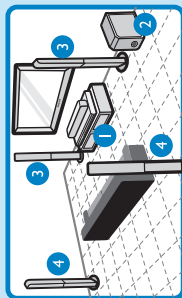
FM wire antenna

PHILIPS

Connect

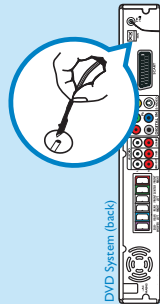
A Position Speakers & Subwoofer

- 1 Place centre speaker on or close to the TV.
- 2 Place subwoofer on the floor.
- 3 Place front speakers equal distance from the TV and angle them 45 degree to the listener.
- 4 Place rear speakers facing the listener, equal distance on the left and right.



B Fix Antennas

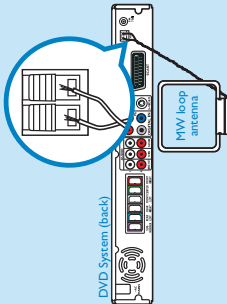
- 1 Connect the FM antenna to the FM socket, extend the antenna and fix it on the wall.



- 2 Unfold the AM/ MW loop antenna and fix the claw into the slot.

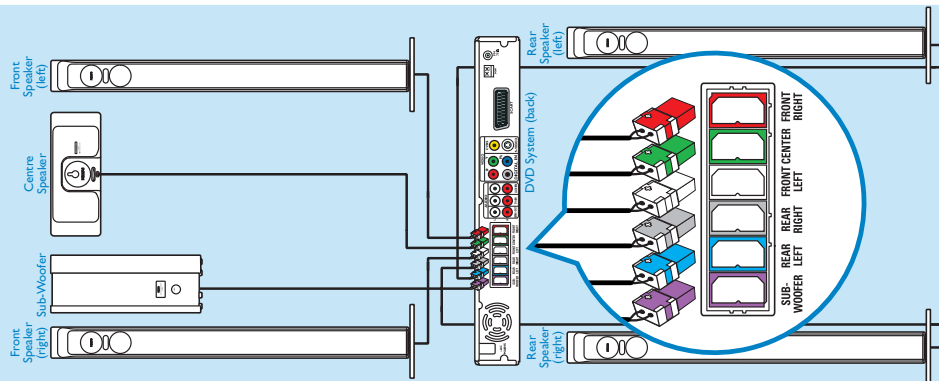


- 3 Push back tab and insert each wire into slot.



C Connect Speakers & Subwoofer to DVD System

Connect the various coloured plugs from the speakers and subwoofer to the same colour socket on the rear of DVD system.

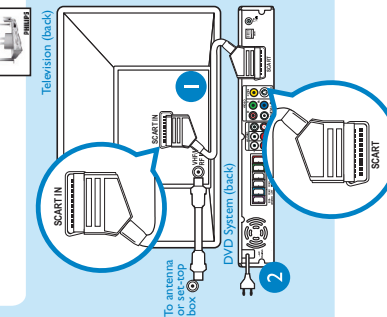


D Connect DVD system to TV

- 1 Use the supplied black SCART cable to connect the SCART socket on the rear of the DVD system and the SCART input socket at the rear of the TV.

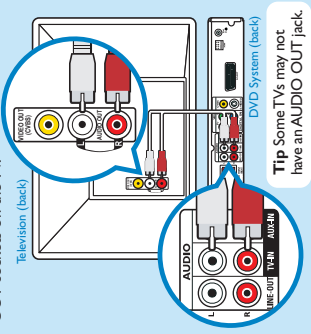
- 2 Plug in the power cable of the DVD system to an AC outlet.

Tip To connect other devices to the DVD system, refer to the use manual.



E Connect Audio from TV to DVD System (Optional)

Use the red & white audio cables to connect the red & white TV-IN sockets on the rear of the DVD system and the red & white AUDIO OUT sockets on the TV.

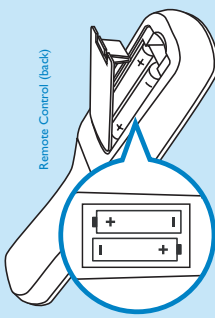


Tip Some TVs may not have an AUDIO OUT jack.

2 Setup

A Insert Batteries in Remote Control

- 1 Remove batteries compartment cover.
- 2 Insert the provided batteries in the remote control. Take note of where the positive and negative ends should go.
- 3 Replace the batteries compartment cover.



B Find Correct Viewing Channel

List-Group">

- 1 Press **STANDBY-ON** on the DVD system's remote control.

List-Group">

- 2 Press **DISC** on the remote control repeatedly until 'DISC' appears on the front panel.

List-Group">

- 3 Press **SETUP**.

List-Group">

- 4 Switch on the TV.

List-Group">

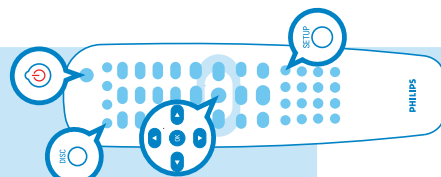
- 5 Press '0' on the TV's remote control, then repeatedly press the Channel Down button until you see the General Setup Page. This is the correct viewing channel for the home theatre system.

Tip In some TVs, to find the correct viewing channel, you can keep pressing the AV or the SELECT buttons. If still unable to find the correct viewing channel, check the connections again or check your TV's user manual.

List-Group">

- 6 Press **SETUP** to finish.

Tip To make changes to any of the options in the Setup menus, refer to the user manual.



4. Dismantling Instructions

4.1 Dismantling of the DVD Loader

- 1) The tray can be manually open by inserting a minus screw drive and push the lever in the direction as shown in Figure 3-1 to unlock the tray before sliding it out.



Figure 4-1

- 2) Slide out the tray and remove the Cover Tray (pos 110) as shown in Figure 3-2.

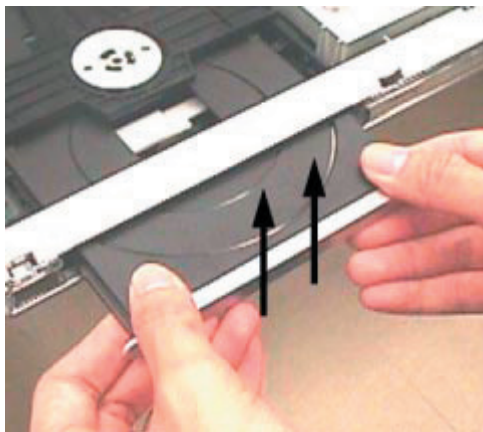


Figure 4-2

- 3) Loosen 5 screws to remove the Front Top.(pos 240)
 - 1 screw each on the left & right side (pos 272)
 - 3 screws behind
- 4) Loosen 4 screws C (see Figure 3-4) to remove the DVD Loader.

4.2 Dismantling of the Tuner Module, MONO Board, Front Board, PSU Module

- 1) Loosen 1 screw A (see Figure 3-3) to remove the Tuner Module (pos 1040).
- 2) Loosen 9 screws B (see Figure 3-3) and 4 screws (see Figure 3-4) to remove MONO Board.
- 3) Release 4 snap hooks to remove Front Board.
 - 1 snap hook each on the left & right side (pos 161).
 - 2 snap hooks on the bottom side (pos 161).
- 4) Loosen 4 screws E (see Figure 3-4) to remove the PSU Module.

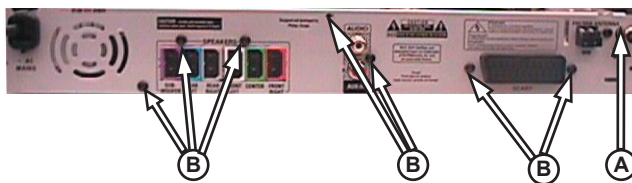


Figure 4-3

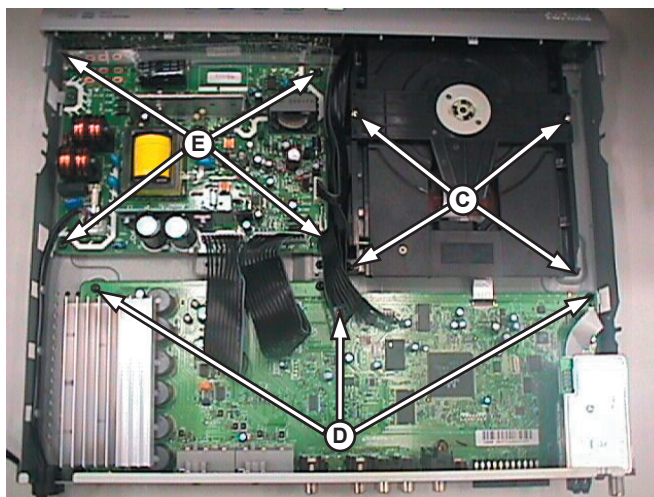
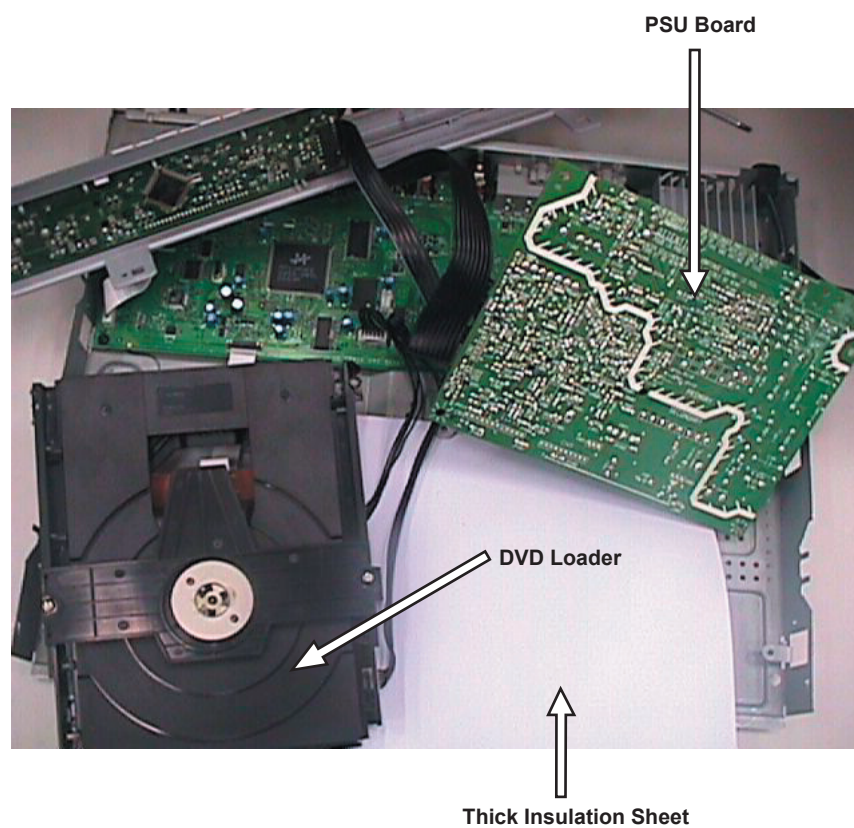
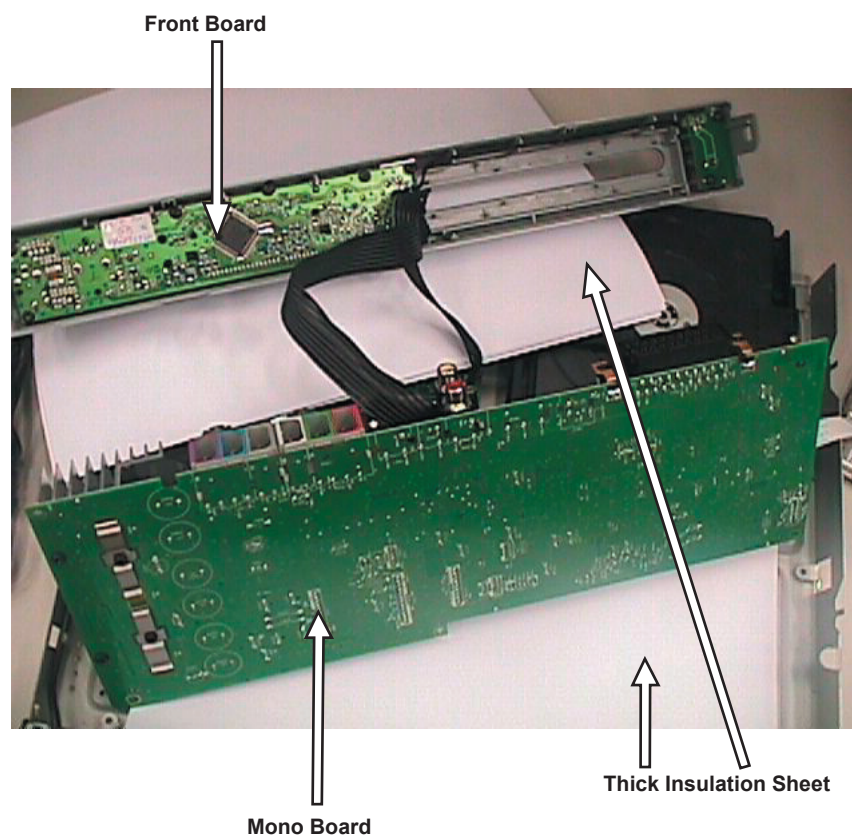


Figure 4-4

4.3 Service Positions



5. Service Test Program

To start service test program open the tray with remote control or front panel key, while plugging in the mains cord press 2, 5 8 on remote control, the tray will close by itself and the set will display shown "S-Vxx-yy"

Display shows "SERVICE" followed by ROM version "S-Vxx-yy"

Main Menu

Display Test

key "DisplayTest" triggered?

Activate and display "Pattern1"

key "DisplayTest" triggered?

Activate and display "Pattern2"

key "■" triggered?

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.

Player:

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

Pattern 1: *Default: All display control pins 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



Receiver:

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

Pattern 1: *Default: All display control pins are ON*

- to check the open-circuits





PROSCAN

Pattern 2: *Alternate display control pins are on (Test Pattern: 0x55)*

- to check the short-circuits on Data port



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

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
HTS 3610/12	Europe	2	PAL
HTS 3610/51	Russia	5	PAL

To reprogram do as follows:

- 1) Power up the set and select DISC source.
- 2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
- 3) Press the following buttons on the Remote Control:
 <9> <9> <9> <9> <ZOOM> <6> for HTS 3610/12
 <9> <9> <9> <9> <ZOOM> <7> for HTS 3610/51
- 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 for check Software version

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

PPPP-Vxx YYYY-ZZ
SERVO: GGGGGGGG REG:DD

PPPP : LX1S, LX1D, or LX2W
 xx : version number
 YYYYY = model # - 3000S / 2000D / 5000W
 ZZ = stroke version (/12, /51)
 DD = region code
 GGGGGGGG = version for servo code

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 set will display:

LOAD -> MULTICH ->..... ->UPG END.
 The whole process takes less than 2 minutes.

Note: Do not press any button or interrupt the main supply upgrading process, Otherwise the set may become defective.

4. When the upgrade is completed, the tray will close automatic.
5. The tray will close and the set will go to Standby mode automatically when the upgrade process is completed.

5.1.5 Procedure to check the firmware version to confirm upgrading

1. Power up the set and open tray.
2. Press the <Menu 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 from removing disc, changing source etc using the set keys. Rotary and Remote Control (RC) keys are still allowed in Trade mode.

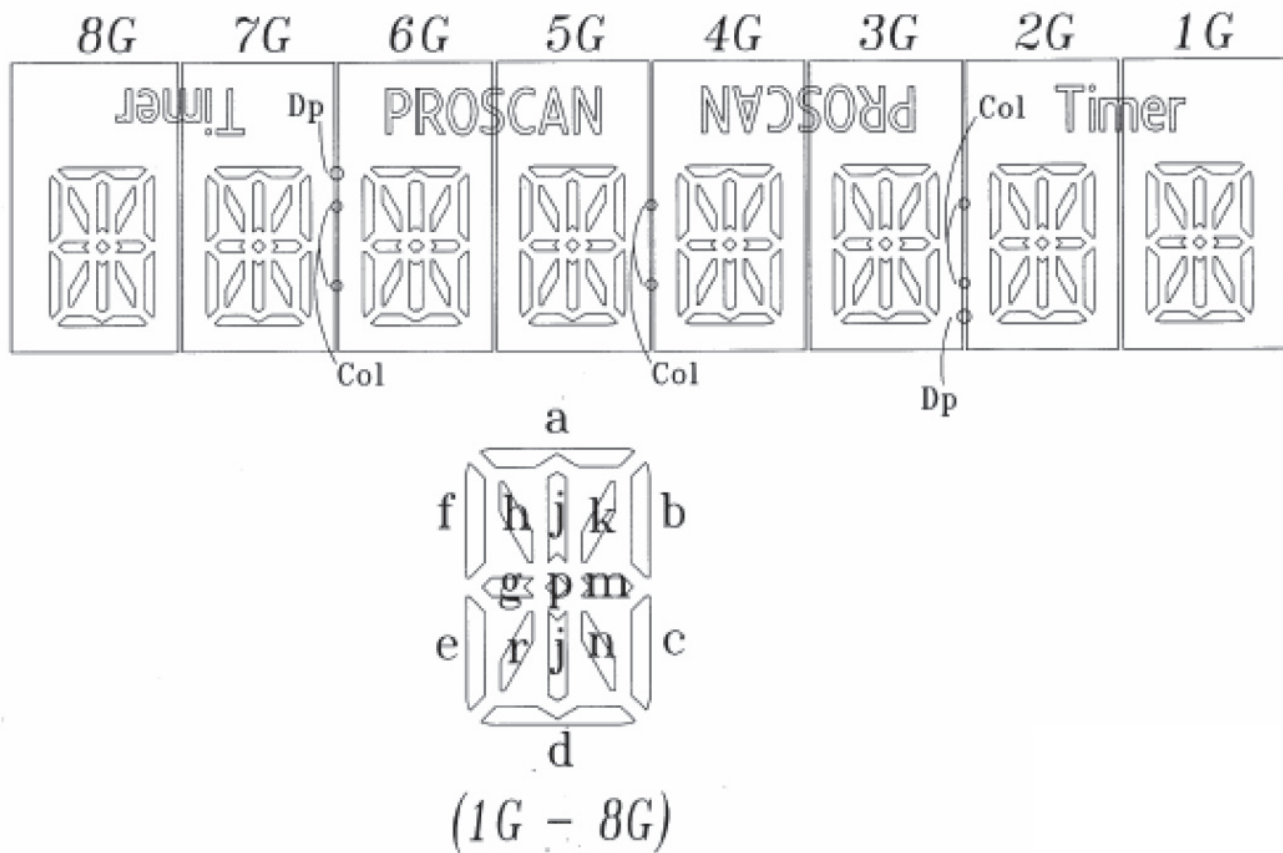
To activate Trade Mode:

- 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.

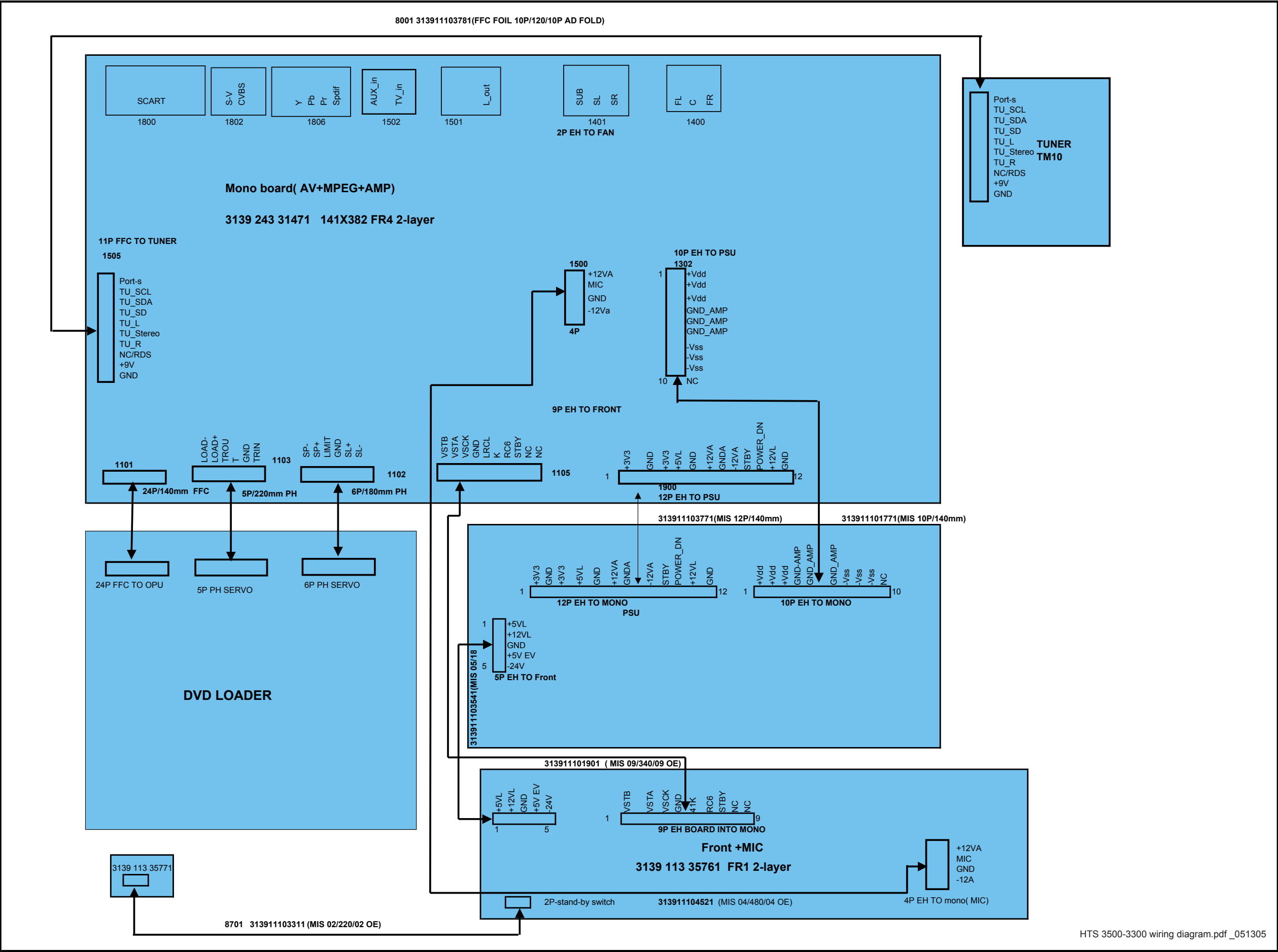
6. FTD Display Pin Connection



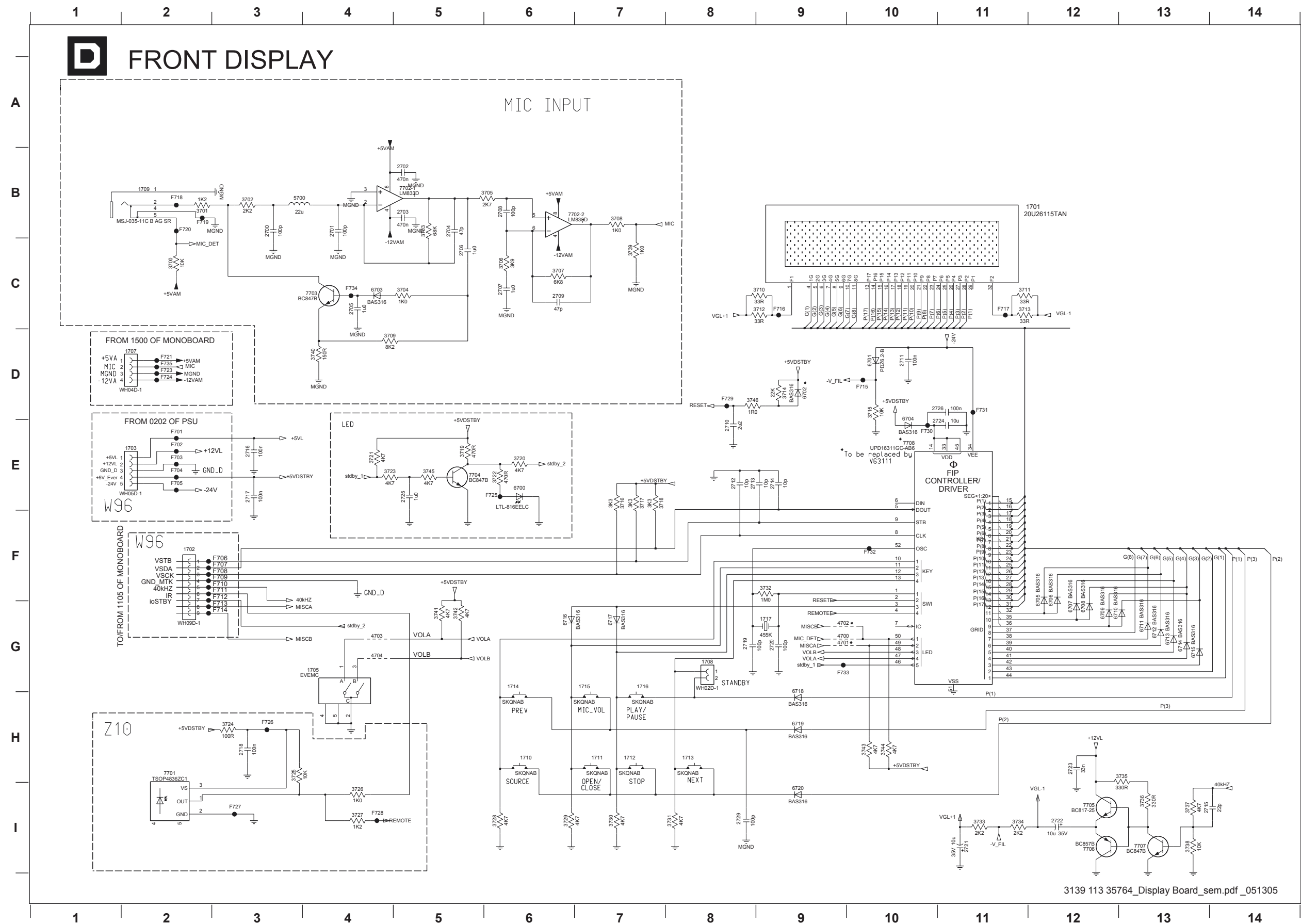
	8G	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	a	a	a	a
P2	j	j	j	j	j	j	j	j
P3	h	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d	d
P14	col		col		col			
P15	p	p	p	p	p	p	p	p
P16	Timer		PROSCAN		PROSCAN		Timer	
P17	dp				dp			

HTS 3500 block diagram.pdf_051305

Wiring Diagram

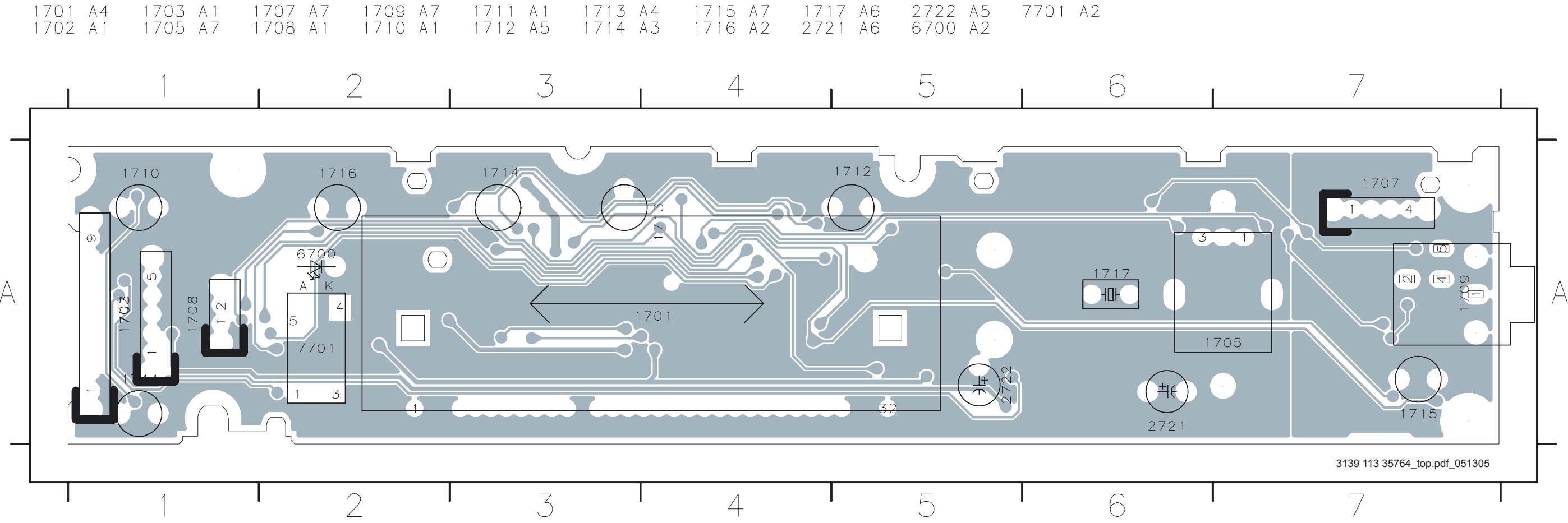


8. Front: Display



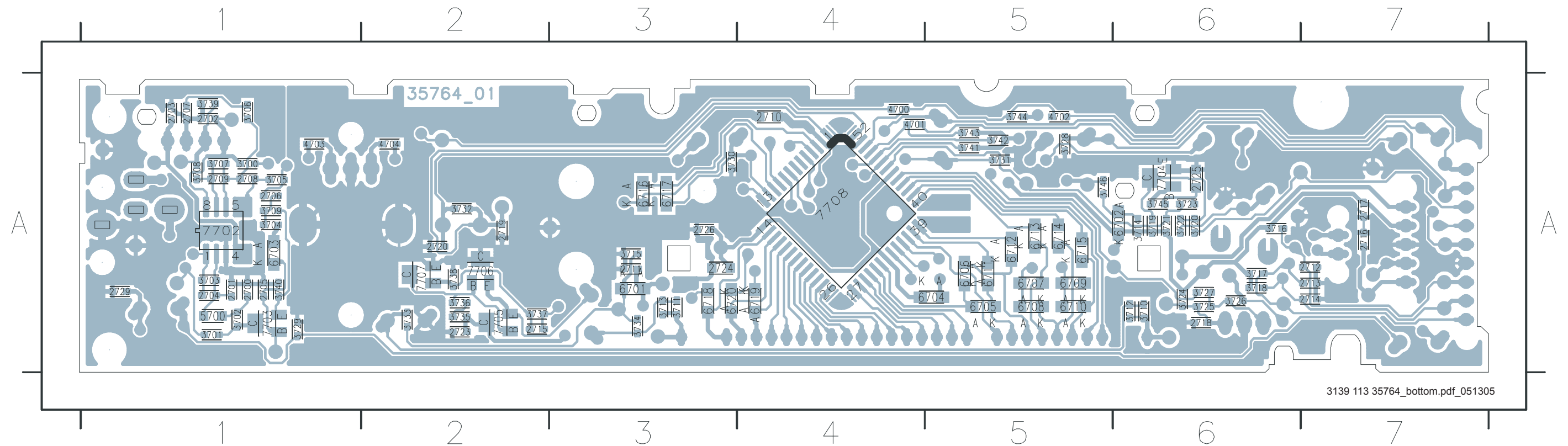
1701 B12	6720 I9
1702 F2	7701 H2
1703 E2	7702-1 B5
1705 G4	7702-2 B6
1707 D2	7703 C4
1708 G8	7704 E5
1709 B2	7705 I12
1710 H6	7706 I12
1711 H7	7707 I13
1712 H7	7708 E10
1713 H8	F701 E2
1714 G6	F702 E2
1715 G7	F703 E2
1716 G7	F704 E2
1717 G9	F705 E2
2700 B3	F706 F3
2701 B4	F707 F3
2702 B5	F708 F3
2703 B5	F709 F3
2704 B5	F710 F3
2705 C4	F711 F3
2706 C5	F712 F3
2707 C6	F713 G3
2708 B6	F714 G3
2709 C6	F715 D10
2710 E8	F716 C9
2711 D10	F717 C11
2712 E8	F718 B2
2713 E8	F719 B2
2714 E9	F720 B2
2715 I13	F721 D2
2716 E3	F722 D2
2717 E3	F723 D2
2718 H3	F724 D2
2719 G8	F725 E6
2720 G9	F726 H3
2721 I11	F727 I3
2722 I12	F728 I4
2723 H12	F729 D8
2724 E11	F730 E10
2725 E5	F731 D11
2726 D11	F732 F10
2727 C2	F733 G9
3701 B2	F734 C4
3702 B3	F735 D2
3703 B5	
3704 C5	
3705 B6	
3706 C6	
3707 C6	
3708 B7	
3709 D4	
3710 C9	
3711 C11	
3712 C9	
3713 C11	
3714 D9	
3715 D10	
3716 E7	
3717 E7	
3718 E7	
3719 E6	
3720 E6	
3721 E4	
3722 E6	
3723 E4	
3724 H3	
3725 H3	
3726 I4	
3727 I4	
3728 I6	
3729 I6	
3730 I7	
3731 I8	
3732 F9	
3733 I11	
3734 I11	
3735 H13	
3736 I13	
3737 I13	
3738 I13	
3739 C7	
3740 D4	
3741 G5	
3742 G5	
3743 H10	
3744 H10	
3745 E5	
3746 D8	
4700 G9	
4701 G9	
4702 G9	
4703 G4	
4704 G4	
5700 B3	
6700 E6	
6701 D10	
6702 D9	
6703 C4	
6704 E10	
6705 F12	
6706 F12	
6707 G12	
6708 G12	
6709 G12	
6710 G12	
6711 G13	
6712 G13	
6713 G13	
6714 G13	
6715 G13	
6716 G6	
6717 G7	
6718 H9	
6719 H9	

Front: Display (topview)

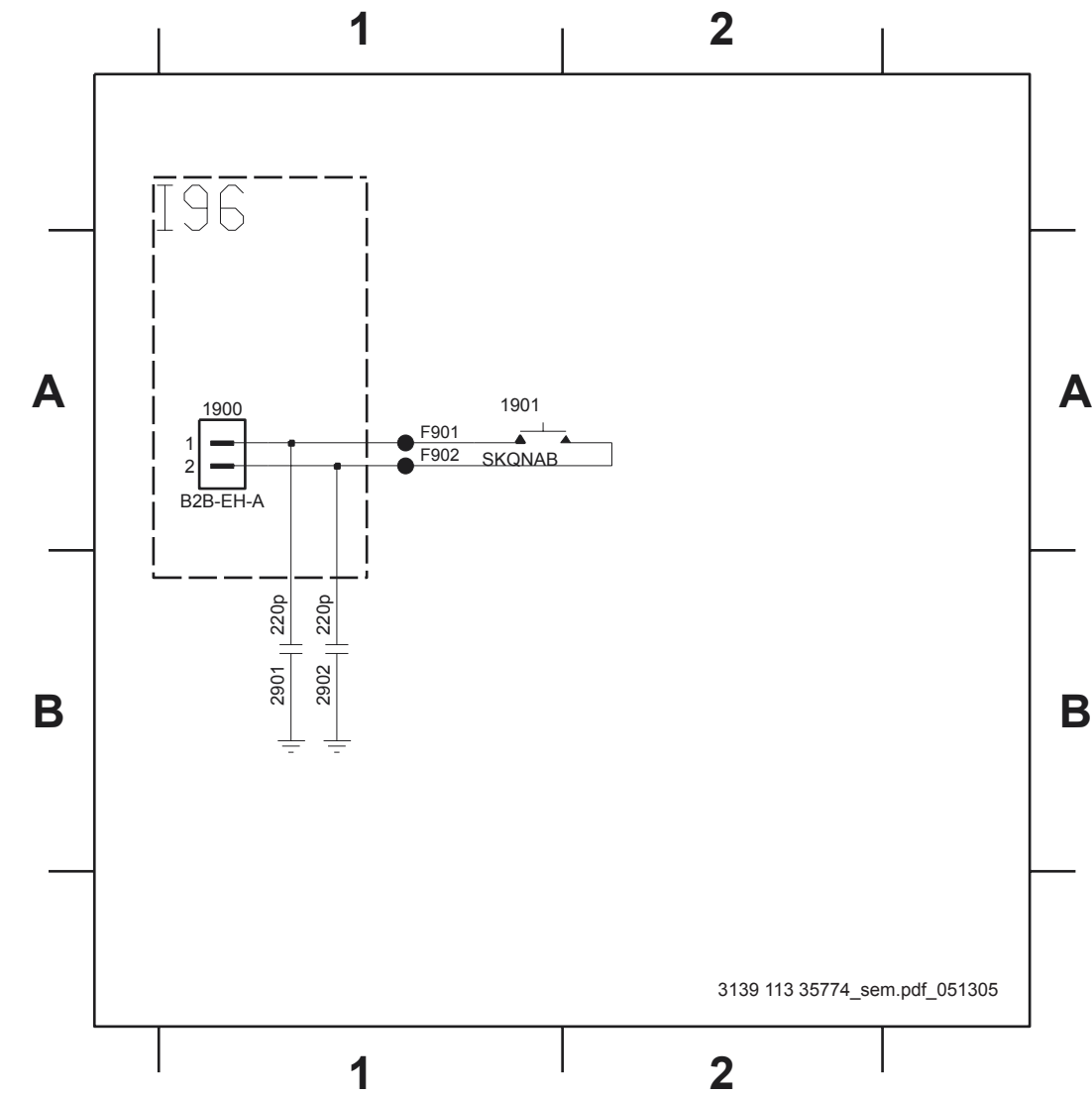


Front: Display (Bottom view)

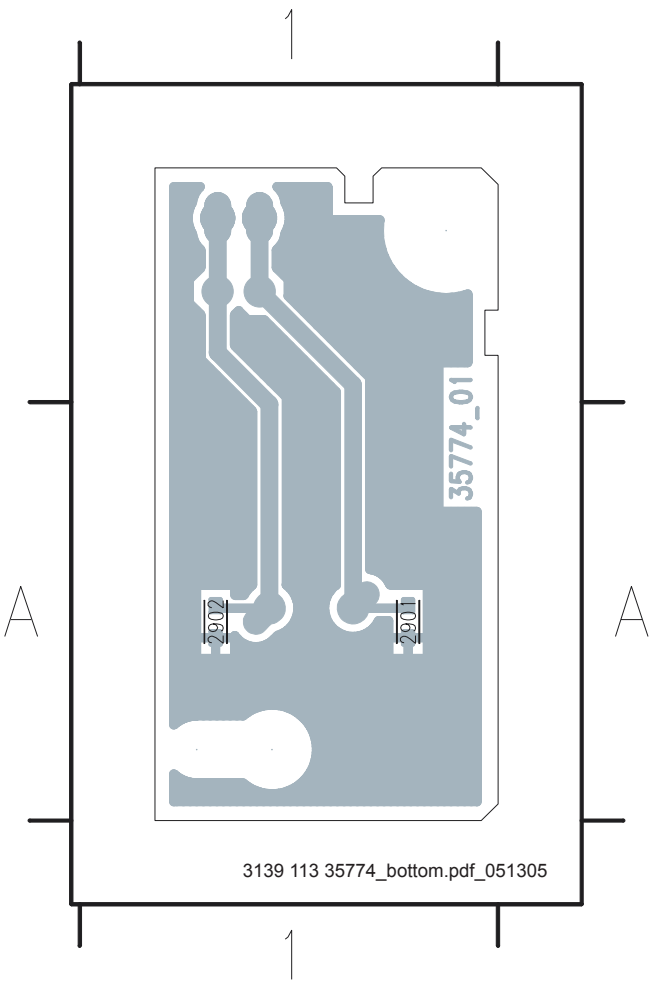
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2701	A1	2709	A1	2717	A7	2729	A1	3707	A1	3715	A3	3723	A6	3731	A5	3739	A1	4700	A4	6703	A1	6711	A5	6719	A4	7708	A4
2702	A1	2710	A4	2718	A6	3700	A1	3708	A1	3716	A6	3724	A6	3732	A2	3740	A1	4701	A4	6704	A5	6712	A5	6720	A3		
2703	A1	2711	A3	2719	A2	3701	A1	3709	A1	3717	A6	3725	A6	3733	A2	3741	A5	4702	A5	6705	A5	6713	A5	7702	A1		
2704	A1	2712	A7	2720	A2	3702	A1	3710	A6	3718	A6	3726	A6	3734	A3	3742	A5	4703	A1	6706	A5	6714	A5	7703	A1		
2705	A1	2713	A7	2723	A2	3703	A1	3711	A3	3719	A6	3727	A6	3735	A2	3743	A5	4704	A2	6707	A5	6715	A5	7704	A6		
2706	A1	2714	A7	2724	A3	3704	A1	3712	A6	3720	A6	3728	A5	3736	A2	3744	A5	5700	A1	6708	A5	6716	A3	7705	A2		
2707	A1	2715	A2	2725	A6	3705	A1	3713	A3	3721	A6	3729	A1	3737	A2	3745	A6	6701	A3	6709	A5	6717	A3	7706	A2		



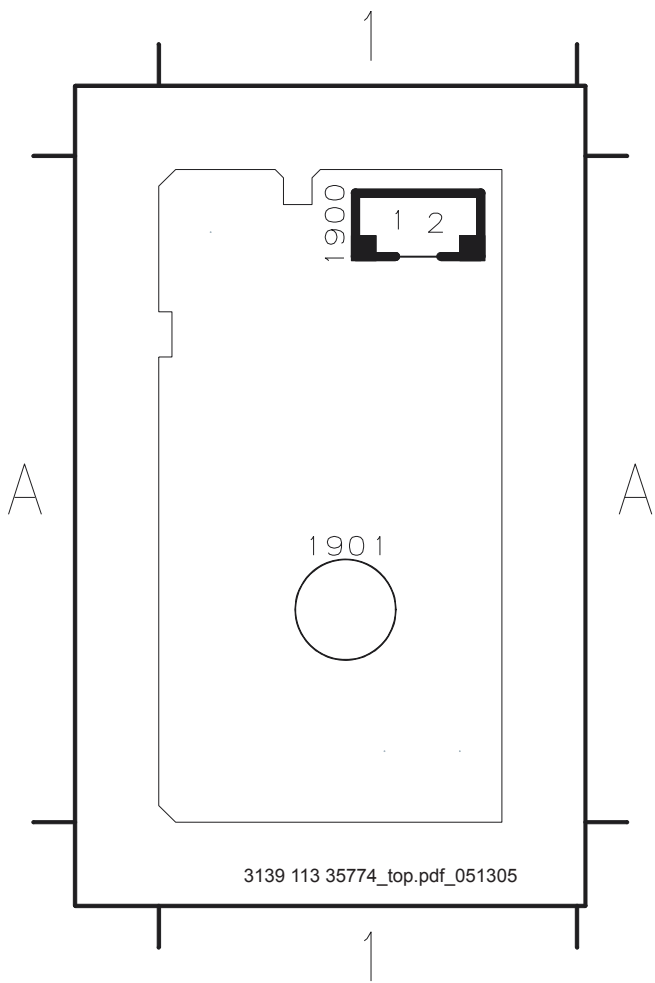
Front: Standby



1900 A1
1901 A1
2901 B1
2902 B1
F901 A1
F902 A1



2901 A1
2902 A1

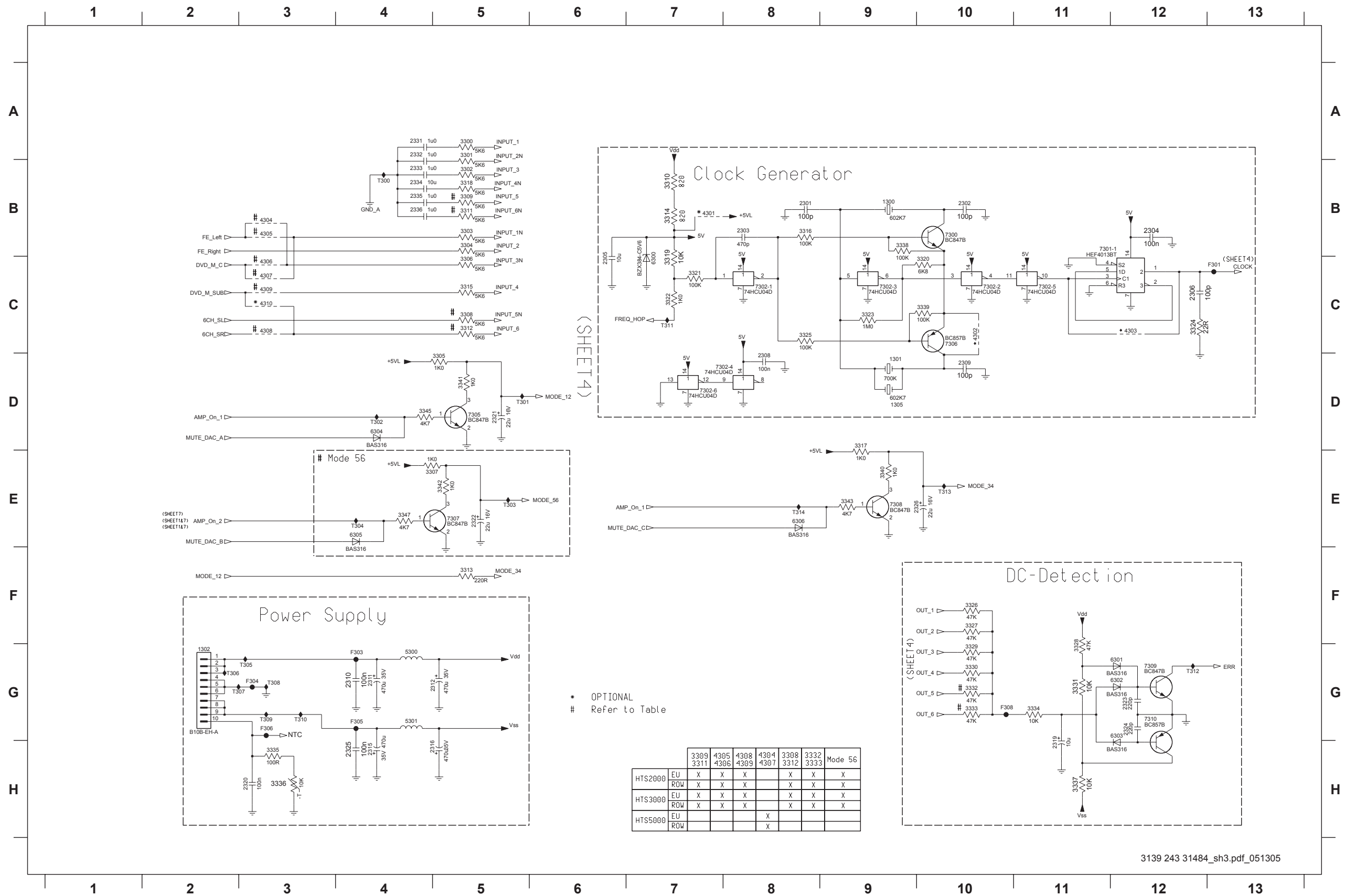


1900 A1
1901 A1

11001 D1	2219 I2	5120 B5
1102 G1	2220 E6	5122 C2
1103 H1	2221 E5	5123 D4
1105 I9	2222 F6	5124 D2
1107 F5	2223 G4	5125 D3
1108 H0	2224 F6	5126 E5
1108 H1	2241 I8	6100 I0
1109 D1	2242 I8	7102 A2
1100 A3	2243 I8	8104 D0
2101 A3	2245 I9	7105 D3
2102 A8	2246 I9	7106 E2
2103 A12	2249 I11	7107 E3
2104 A12	2250 I10	7108 E3
2105 A12	2251 I11	7109 E9
2106 A13	2101 A12	7110 F3
2107 A13	2102 A13	7111 H2
2108 A8	3103 A6	7112 I2
2109 A9	3104 A12	7125 F12
2111 A3	3105 A12	F126 F12
2112 A4	3106 A9	F141 C6
2113 D13	3107 B10	F155 E5
2114 H7	3108 A7	F156 E6
2115 A4	3109 A10	T101 D1
2116 A13	3111 B12	T111 D2
2117 A8	3111 A10	T103 D3
2118 A8	3112 B12	T104 D2
2119 A15	3113 A10	T105 D1
2120 A6	3114 B13	T106 D2
2121 A8	3115 A11	T107 D1
2122 A10	3116 B12	T109 E1
2123 A10	3118 B9	T110 E2
2124 B12	3119 B7	T111 E1
2125 B12	3120 B12	T112 D2
2126 D13	3121 C12	T113 E1
2127 B7	3123 D12	T114 E2
2128 B7	3124 E12	T115 E1
2129 B8	3125 D13	T116 E2
2130 B8	3126 D4	T117 E1
2131 B8	3127 D12	T118 E2
2132 B9	3128 D3	T119 E1
2133 B9	3129 D2	T120 E2
2134 A10	3130 D13	T121 E1
2135 A11	3131 D12	T122 E2
2136 B12	3132 E3	T123 F1
2137 B13	3133 E2	T124 F1
2138 B1	3134 E3	T125 G1
2139 B2	3135 E2	T126 G1
2140 B2	3136 E5	T127 G1
2141 B3	3137 E5	T128 G1
2142 B3	3138 F6	T129 G1
2143 B3	3139 F6	T130 G1
2144 B3	3140 G4	T131 H1
2145 B3	3141 G5	T132 H1
2146 B3	3142 G5	T133 I1
2147 B4	3143 G2	T134 H1
2148 B4	3144 G5	T135 I1
2149 B4	3145 G1	T136 E6
2150 I12	3146 G5	T137 E7
2151 B5	3147 H1	T138 B9
2152 B6	3148 H2	T148 I9
2153 B6	3149 H2	T149 I9
2154 B6	3150 H5	T150 I9
2155 B6	3151 H9	T151 I9
2156 B6	3152 H9	T152 I9
2157 B6	3153 H11	T153 I9
2158 B9	3154 H10	T154 I10
2159 B7	3155 H10	T155 I10
2160 B7	3156 H10	T156 I10
2161 B8	3157 H10	T157 I10
2162 B8	3158 H5	T158 I10
2163 B8	3159 H5	T159 C13
2164 B8	3160 I2	T160 C13
2165 B8	3161 H11	T161 C13
2166 I5	3162 I2	T162 C13
2167 C2	3164 I9	T163 C13
2168 C3	3165 I9	T164 C13
2169 C4	3168 I2	T165 C13
2170 C4	3169 I2	T166 C13
2171 C4	3170 I11	T167 C13
2172 C4	3171 I11	T168 D13
2173 C5	3172 I11	T169 D13
2174 C5	3173 D2	T170 A2
2175 B10	3174 D2	T172 A3
2179 G5	3175 A10	T173 A4
2180 E3	3176 A10	T174 B2
2181 G2	3177 A12	T175 B3
2182 G2	3178 A12	T176 B5
2183 H2	3179 A12	T177 B5
2184 H1	3180 B12	T179 C3
2185 H2	3181 B12	T179 A4
2186 H2	3182 I9	T182 C4
2187 I8	3183 I9	T183 C5
2188 I9	3184 I9	T184 D4
2194 G5	3185 C12	T185 D5
2195 G5	3186 D12	T186 F5
2196 G5	4100 B9	T187 F5
2197 G6	4101 B10	T188 F5
2198 G6	4102 C6	T189 C4
2199 H2	4103 C6	T190 A6
2200 C12	4104 C6	T191 I11
2201 C6	4105 D6	T192 D4
2202 C6	4106 D6	T193 E3
2203 C12	4107 F6	T194 I11
2204 C6	4108 F6	T195 I10
2205 C6	4109 H10	
2206 C6	5101 A6	
2207 A8	5104 A1	
2208 D2	5105 A2	
2209 D2	5106 A3	
2210 D5	5107 A4	
2211 D3	5108 A6	
2212 E2	5113 B7	
2213 E5	5114 B8	
2214 E5	5115 B9	
2215 E5	5116 B9	
2216 H5	5117 B1	
2217 E5	5118 B3	
2218 I2	5119 B4	

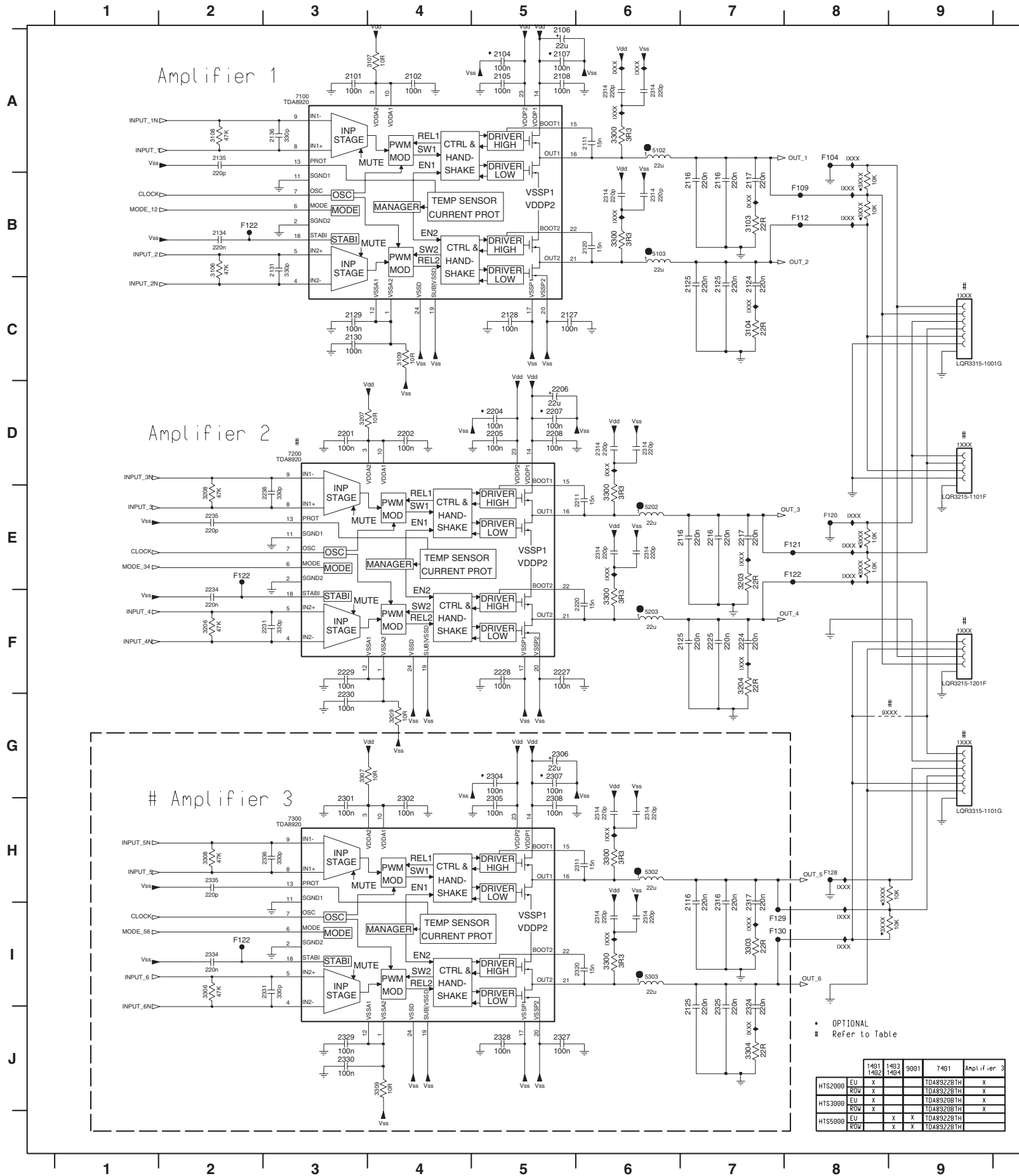
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2254 C4
2255 C4
2256 C4
2258 C4
2259 D10
2260 D11
2262 D10
2263 D11
2264 D7
2265 D7
2266 F6
2267 F4
2268 F4
2269 F6
2270 F10
2271 F11
2272 H7
2273 H7
2274 H7
2275 F11
2276 F5
3200 A10
3201 A10
3202 A10
3203 B4
3204 B10
3209 B4
3210-1 C2
3210-2 D2
3210-3 D2
3210-4 D2
3211-1 E2
3211-2 C2
3211-3 C2
3211-4 C2
3212-1 C2
3212-2 C2
3212-3 C2
3212-4 D2
3213-1 D2
3213-2 D2
3213-3 D2
3214-1 E2
3214-2 E2
3214-3 E2
3214-4 E2
3227 E8
3229 E8
3233 F4
3234 F6
3235 F6
3236 G6
3237 G6
3238 G7
3240 H2
3241 H4
3242 H4
5200 B4
5201 E6
5202 E8
5208 E8
7200 A3
7201 D3
7202 E7
7203 F3
7200 E8
7201 G6
7202 B4
7203 B4
7204 E8
7205 E8
72236 A3
72237 B3
72238 F3
7240 E7

Mono Board: Circuit Diagram (Part 3)



- 1300 B9
- 1301 D9
- 1302 G2
- 1305 D9
- 2301 B8
- 2302 B10
- 2303 B8
- 2304 B12
- 2305 C6
- 2306 C12
- 2308 D8
- 2309 D10
- 2310 G4
- 2311 G4
- 2312 G5
- 2315 H4
- 2316 H5
- 2319 H11
- 2320 H3
- 2321 D5
- 2322 E5
- 2323 G12
- 2324 G12
- 2325 H4
- 2326 E10
- 2331 A4
- 2332 A4
- 2333 B4
- 2334 B4
- 2335 B4
- 2336 B4
- 3300 A5
- 3301 A5
- 3302 B5
- 3303 B5
- 3304 B5
- 3305 D5
- 3306 C5
- 3307 E4
- 3308 C5
- 3309 B5
- 3310 B7
- 3311 B5
- 3312 C5
- 3313 F5
- 3314 B7
- 3315 C5
- 3316 B8
- 3317 D9
- 3318 B5
- 3319 C7
- 3320 C10
- 3321 C7
- 3322 C7
- 3323 C9
- 3324 C12
- 3325 C8
- 3326 F10
- 3327 F10
- 3328 G11
- 3329 G10
- 3330 G10
- 3331 G11
- 3332 G10
- 3333 G10
- 3334 G11
- 3335 H3
- 3336 H3
- 3337 H11
- 3338 B9
- 3339 C10
- 3340 E9
- 3341 D5
- 3342 E5
- 3343 E9
- 3345 D4
- 3347 E4
- 4301 B7
- 4302 C10
- 4303 C12
- 4304 B3
- 4305 B3
- 4306 C3
- 4307 C3
- 4308 C3
- 4309 C3
- 4310 C3
- 5300 G4
- 5301 G4
- 6300 C7
- 6301 G12
- 6302 G12
- 6303 G12
- 6304 D4
- 6305 E4
- 6306 E8
- 7300 B10
- 7301-1 B12
- 7302-1 C8
- 7302-2 C10
- 7302-3 C9
- 7302-4 D8
- 7302-5 C11
- 7302-6 D7
- 7305 D5
- 7306 C10
- 7307 E5
- 7308 E9
- 7309 G12
- 7310 G12
- F301 C13
- F303 G4
- F304 G3
- F305 G4
- F306 G3
- F308 G10
- T300 B4
- T301 D5
- T302 D4
- T303 E5
- T304 E4
- T305 G3
- T306 G2
- T307 G2
- T308 G3
- T309 G3
- T310 G3
- T311 C7
- T312 G12
- T313 E10
- T314 E8

Mono Board: Circuit Diagram (Part 4)

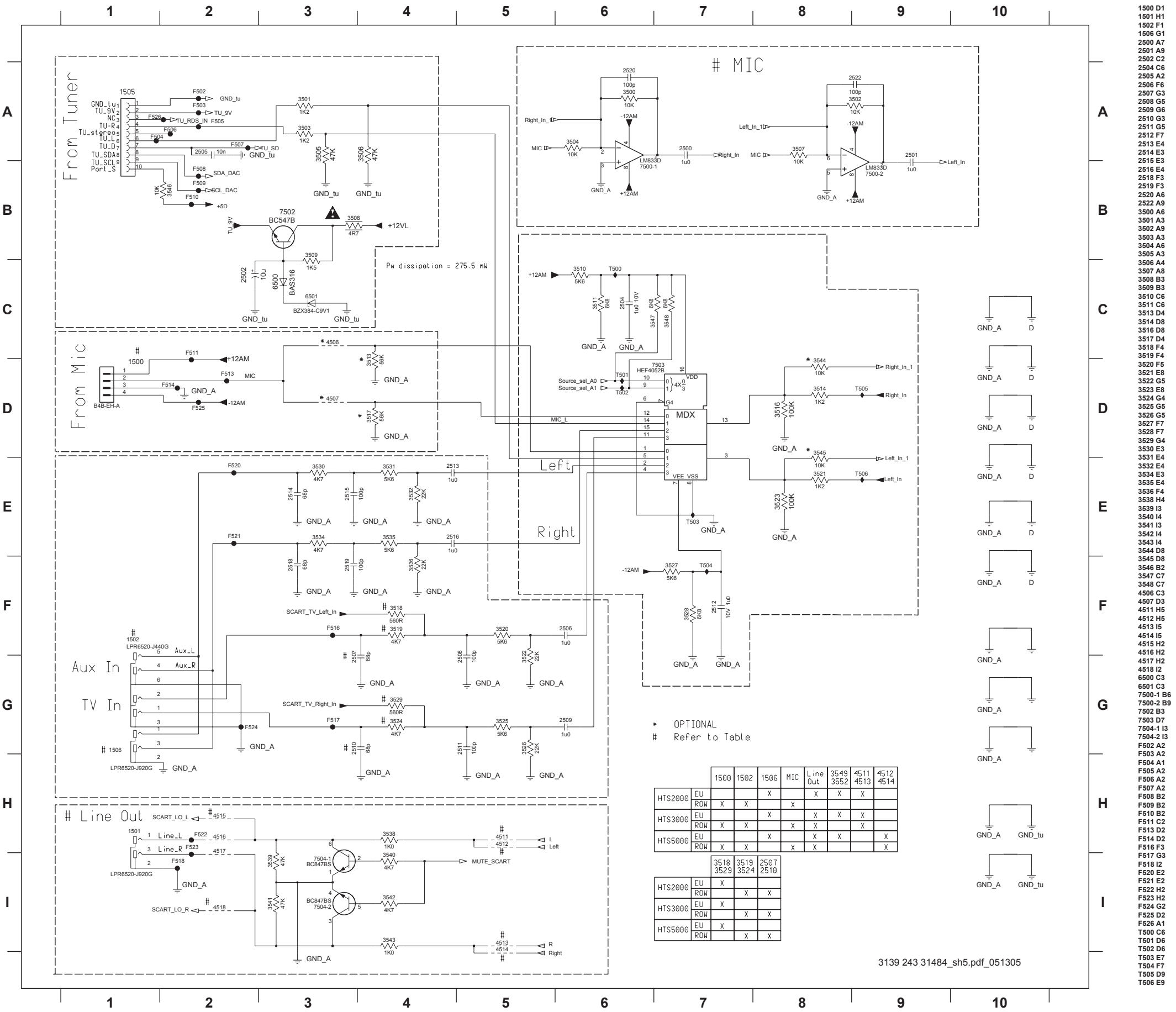


1401 G9	F405 E8
1402 C9	F406 E8
1403 F9	F407 E8
1404 D9	F409 H8
2314 H6	F410 I7
2400 A5	F411 I7
2401 A5	F415 B2
2402 A5	F416 E2
2403 A3	F417 I2
2404 A4	T400 A8
2405 A5	T401 B8
2406 A5	T402 B8
2407 A3	T403 E8
2408 A6	T404 E8
2409 A6	T405 E8
2411 A2	T406 H8
2412 A6	T407 I8
2413 B7	T408 I8
2414 B7	T409 A6
2415 B2	T410 A6
2416 B6	T411 A6
2417 B6	T412 B6
2418 B3	T413 B7
2420 B6	T414 C7
2421 C7	T415 D6
2422 C7	T416 E6
2423 C3	T417 E7
2424 C5	T418 F7
2425 C5	T419 H6
2426 C3	T420 I6
2427 D5	T421 I7
2428 D5	T422 J7
2429 D5	
2430 D3	
2431 D4	
2432 D5	
2433 D5	
2434 E3	
2435 D6	
2436 E6	
2438 E2	
2439 D6	
2440 E7	
2441 E7	
2442 F2	
2443 E6	
2444 F6	
2445 F3	
2447 E6	
2448 F7	
2449 F7	
2450 F3	
2451 F5	
2452 F5	
2453 G3	
2454 G5	
2455 G5	
2456 G5	
2457 H3	
2458 H4	
2459 H5	
2460 H5	
2461 H3	
2463 H6	
2465 H2	
2466 H6	
2467 I7	
2468 I7	
2469 I2	
2470 I6	
2471 I6	
2472 I3	
2474 I6	
2475 J7	
2476 J7	
2477 J3	
2478 J5	
2479 J5	
2480 J3	
2481 B7	
2482 C7	
2483 E7	
2484 F7	
2485 I7	
2486 J7	
3400 A4	
3401 A6	
3402 A2	
3403 B6	
3404 B8	
3405 B7	
3406 B2	
3407 B8	
3408 C7	
3409 C4	
3410 D3	
3411 E6	
3412 E2	
3413 F6	
3414 E8	
3415 E7	
3416 F2	
3417 E8	
3418 F7	
3419 G4	
3420 G3	
3421 H6	
3422 H2	
3423 I6	
3424 H8	
3425 I7	
3426 I2	
3427 I8	
3428 I7	
3429 J4	
5400 A6	
5401 B6	
5402 E6	
5403 F6	
5404 H6	
5405 I6	
7400 A3	
7401 D3	
7402 H3	
9001 G9	
F401 A8	
F402 B8	
F403 B8	

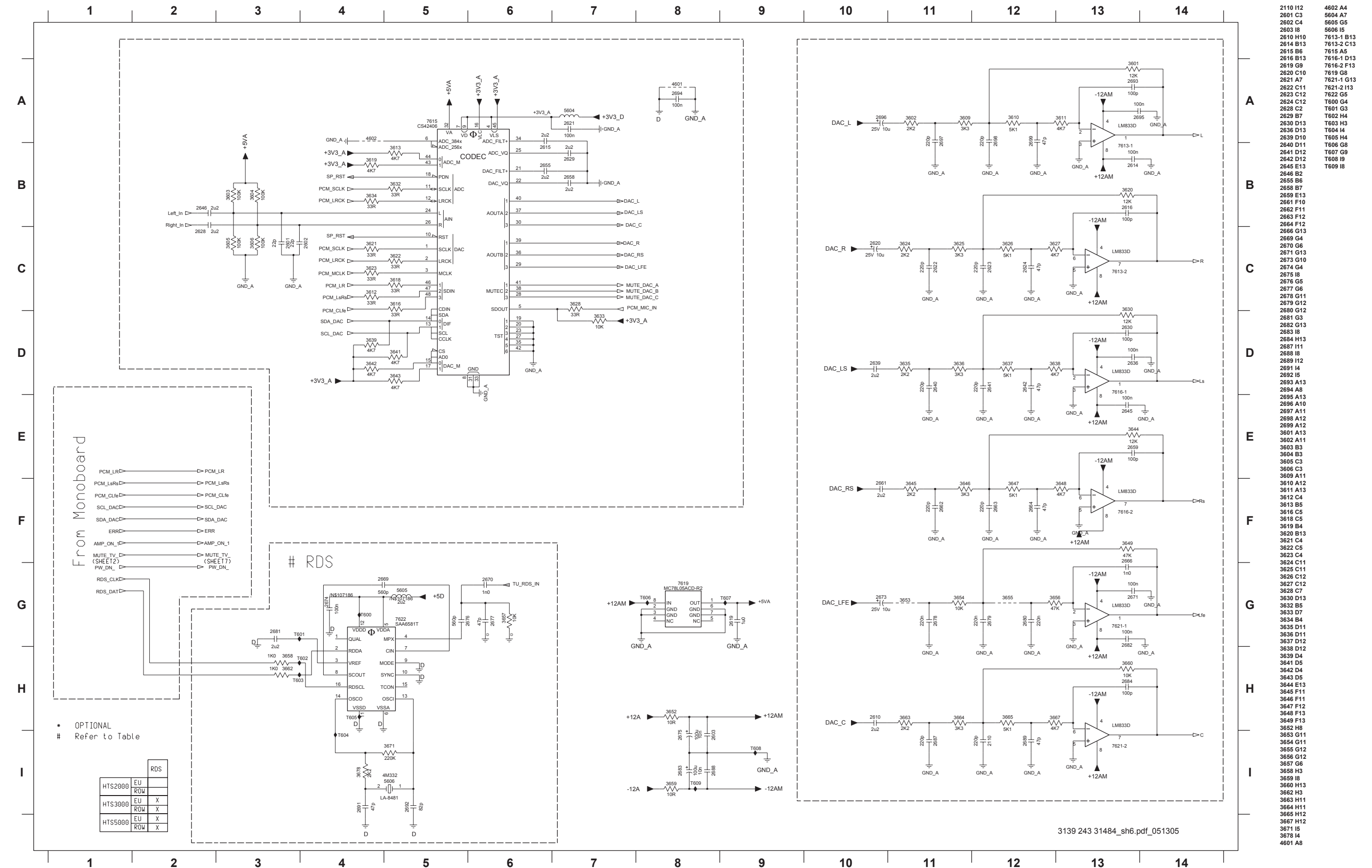
OPTIONAL
Refer to Table

	1401	1403	9001	7401	Amplifier 3
HTS2000	EU	X			
HTS2000	ROW	X			
HTS3000	EU	X			
HTS3000	ROW	X			
HTS5000	EU		X	X	
HTS5000	ROW		X	X	

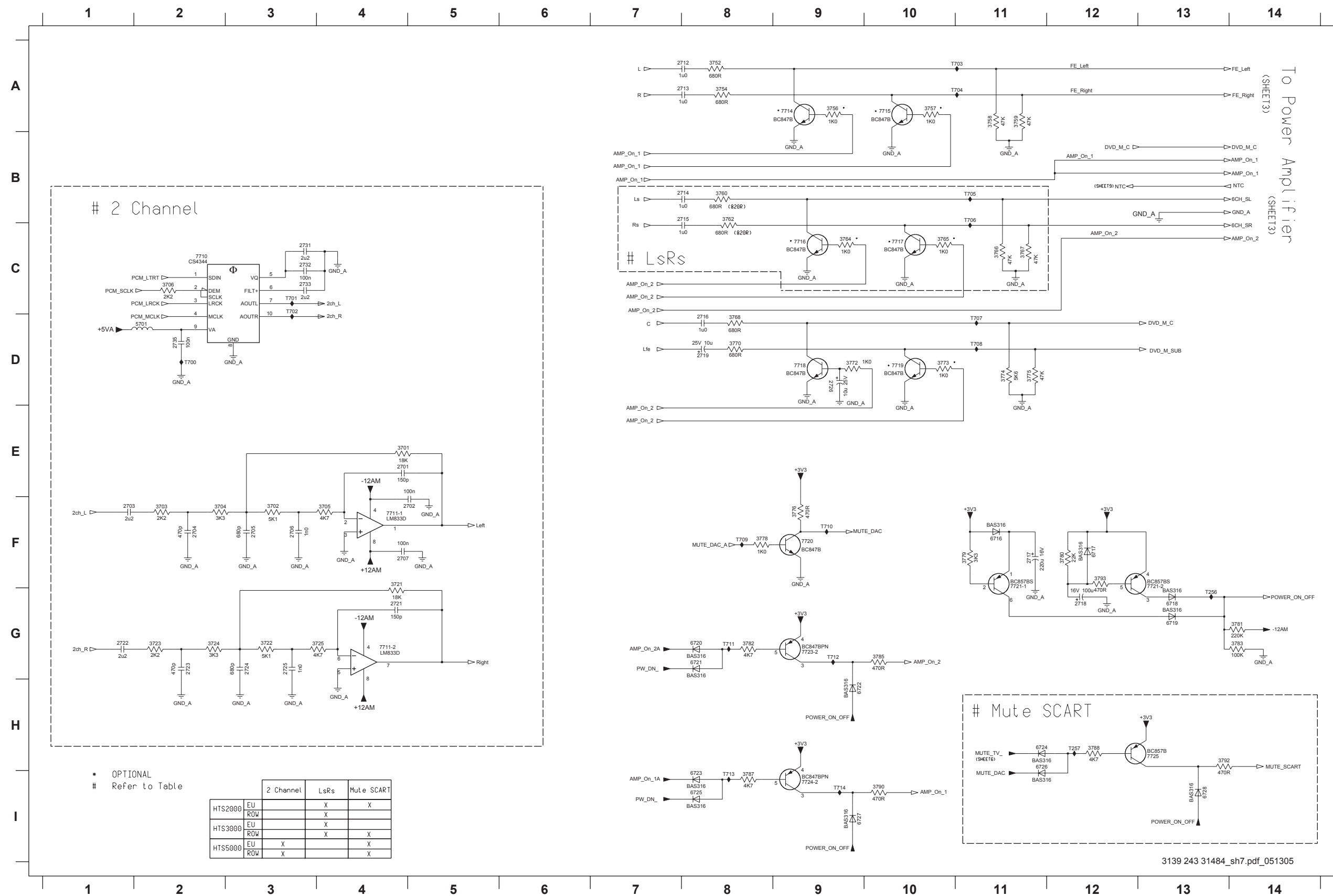
Mono Board: Circuit Diagram (Part 5)



- 1500 D1
- 1501 H1
- 1502 F1
- 1506 G1
- 2500 A7
- 2501 A9
- 2502 C2
- 2504 C6
- 2505 A2
- 2506 F6
- 2507 G3
- 2508 G5
- 2509 G6
- 2510 G3
- 2511 G5
- 2512 F7
- 2513 E4
- 2514 E3
- 2515 E3
- 2516 E4
- 2518 F3
- 2519 F3
- 2520 A6
- 2522 A9
- 3500 A6
- 3501 A3
- 3502 A9
- 3503 A3
- 3504 A6
- 3505 A3
- 3506 A4
- 3507 A8
- 3508 B3
- 3509 B3
- 3510 C6
- 3511 C6
- 3513 D4
- 3514 D8
- 3516 D8
- 3517 D4
- 3518 F4
- 3519 F4
- 3520 F5
- 3521 E8
- 3522 G5
- 3523 E8
- 3524 G4
- 3525 G5
- 3526 G5
- 3527 F7
- 3528 F7
- 3529 G4
- 3530 E3
- 3531 E4
- 3532 E4
- 3534 E3
- 3535 E4
- 3536 F4
- 3538 H4
- 3539 I3
- 3540 I4
- 3541 I3
- 3542 I4
- 3543 I4
- 3544 D8
- 3545 D8
- 3546 B2
- 3547 C7
- 3548 C7
- 4506 C3
- 4507 D3
- 4511 H5
- 4512 H5
- 4513 I5
- 4514 I5
- 4515 H2
- 4516 H2
- 4517 H2
- 4518 I2
- 6500 C3
- 6501 C3
- 7500-1 B6
- 7500-2 B9
- 7502 B3
- 7503 D7
- 7504-1 I3
- 7504-2 I3
- F502 A2
- F503 A2
- F504 A1
- F505 A2
- F506 A2
- F507 A2
- F508 B2
- F509 B2
- F510 B2
- F511 C2
- F512 D2
- F514 D2
- F516 F3
- F517 G3
- F518 I2
- F520 E2
- F521 E2
- F522 H2
- F523 H2
- F524 G2
- F525 D2
- F526 A1
- T500 C6
- T501 D6
- T502 D6
- T503 E7
- T504 F7
- T505 D9
- T506 E9

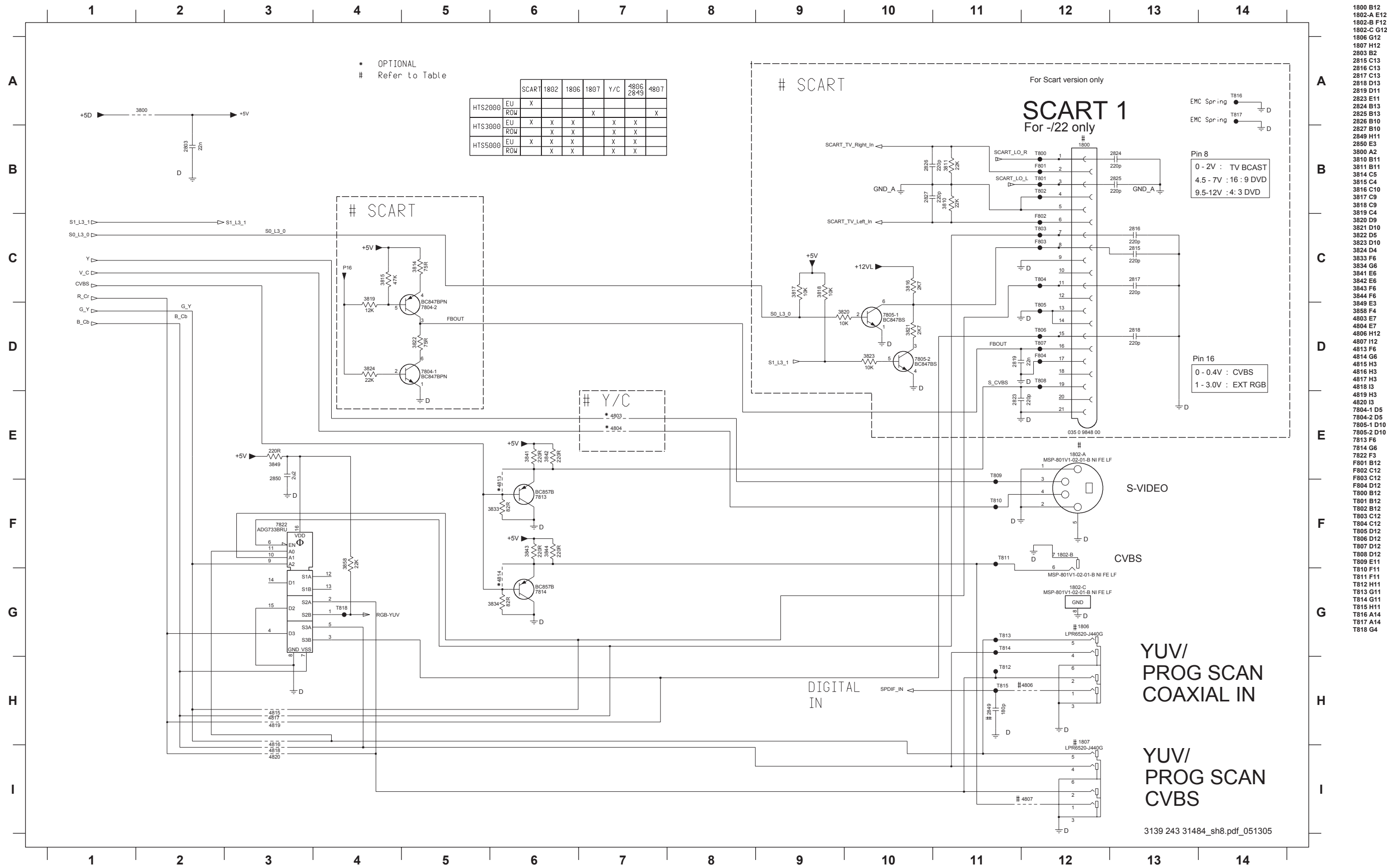


Mono Board: Circuit Diagram (Part 7)

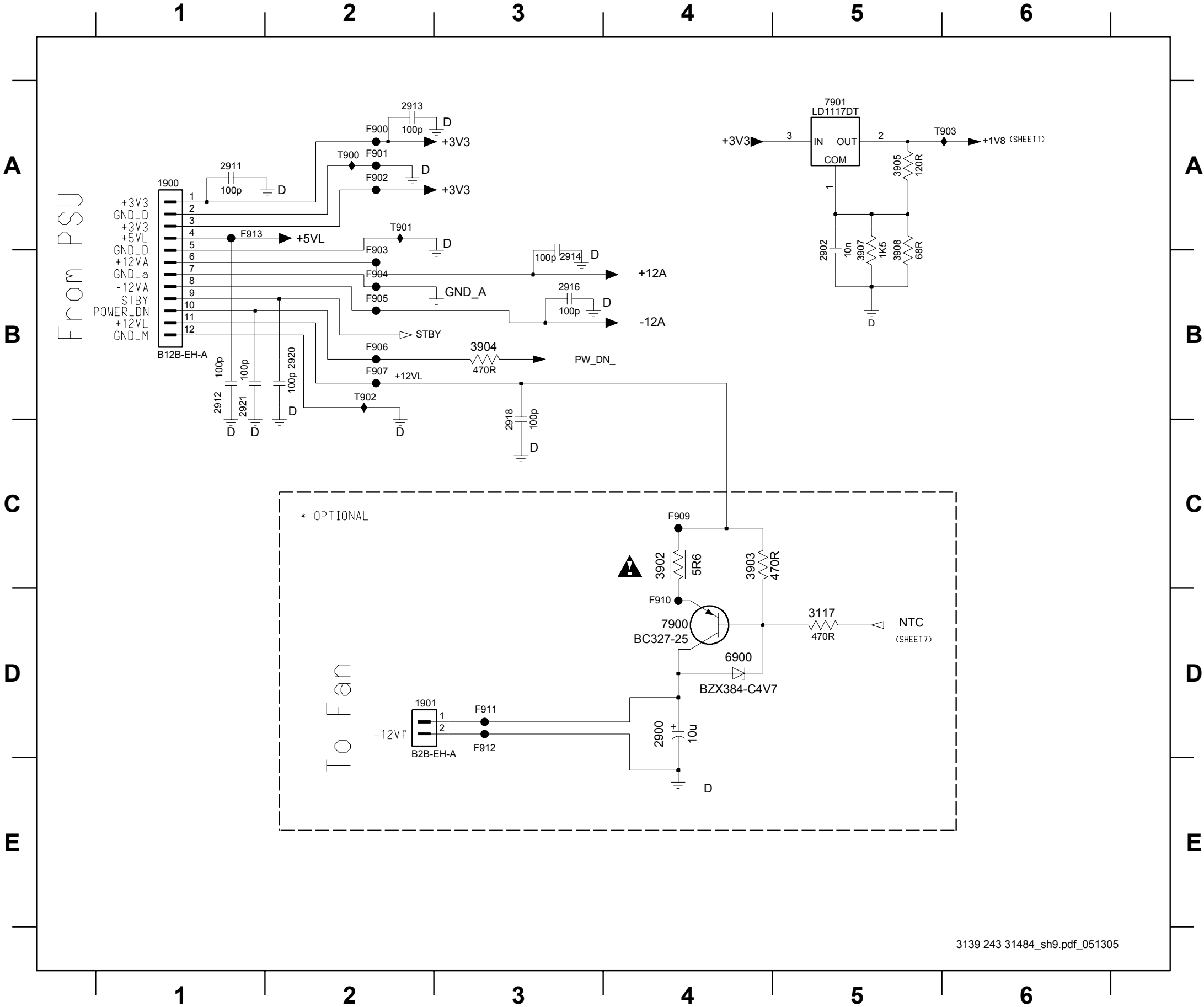


- 2701 E4
- 2702 F5
- 2703 F1
- 2704 F2
- 2705 F3
- 2706 F3
- 2707 F4
- 2712 A8
- 2713 A8
- 2714 B8
- 2715 B8
- 2716 D8
- 2717 F11
- 2718 G12
- 2719 D8
- 2721 G4
- 2722 G1
- 2723 G2
- 2724 G3
- 2725 G3
- 2726 D9
- 2731 C3
- 2732 C3
- 2733 C3
- 2735 D2
- 3701 E4
- 3702 F3
- 3703 F2
- 3704 F2
- 3705 F4
- 3706 C2
- 3721 F4
- 3722 G3
- 3723 G2
- 3724 G2
- 3725 G4
- 3752 A8
- 3754 A8
- 3756 A9
- 3757 A10
- 3758 A11
- 3759 A11
- 3760 B8
- 3762 B8
- 3764 C9
- 3765 C10
- 3766 C11
- 3767 C11
- 3768 D8
- 3770 D8
- 3772 D9
- 3773 D10
- 3774 D11
- 3775 D11
- 3776 F9
- 3778 F8
- 3779 F11
- 3780 F12
- 3781 G14
- 3782 G8
- 3783 G14
- 3785 G10
- 3787 I8
- 3788 H12
- 3790 I10
- 3792 H13
- 3793 F12
- 5701 D2
- 6716 F11
- 6717 F12
- 6718 G13
- 6719 G13
- 6720 G8
- 6721 G8
- 6722 H9
- 6723 I8
- 6724 H11
- 6725 I8
- 6726 H11
- 6727 I9
- 6728 I13
- 7110 C2
- 7111 F4
- 7112 G4
- 7114 A9
- 7115 A10
- 7116 C9
- 7117 C10
- 7118 D9
- 7119 D10
- 7120 F9
- 7121 F11
- 7122 F13
- 7123 G9
- 7124 I9
- 7125 H13
- T256 G13
- T257 H12
- T700 D2
- T701 C3
- T702 C3
- T703 A11
- T704 A11
- T705 B11
- T707 D11
- T708 D11
- T709 F8
- T710 F9
- T711 G8
- T712 G9

Mono Board: Circuit Diagram (Part 8)

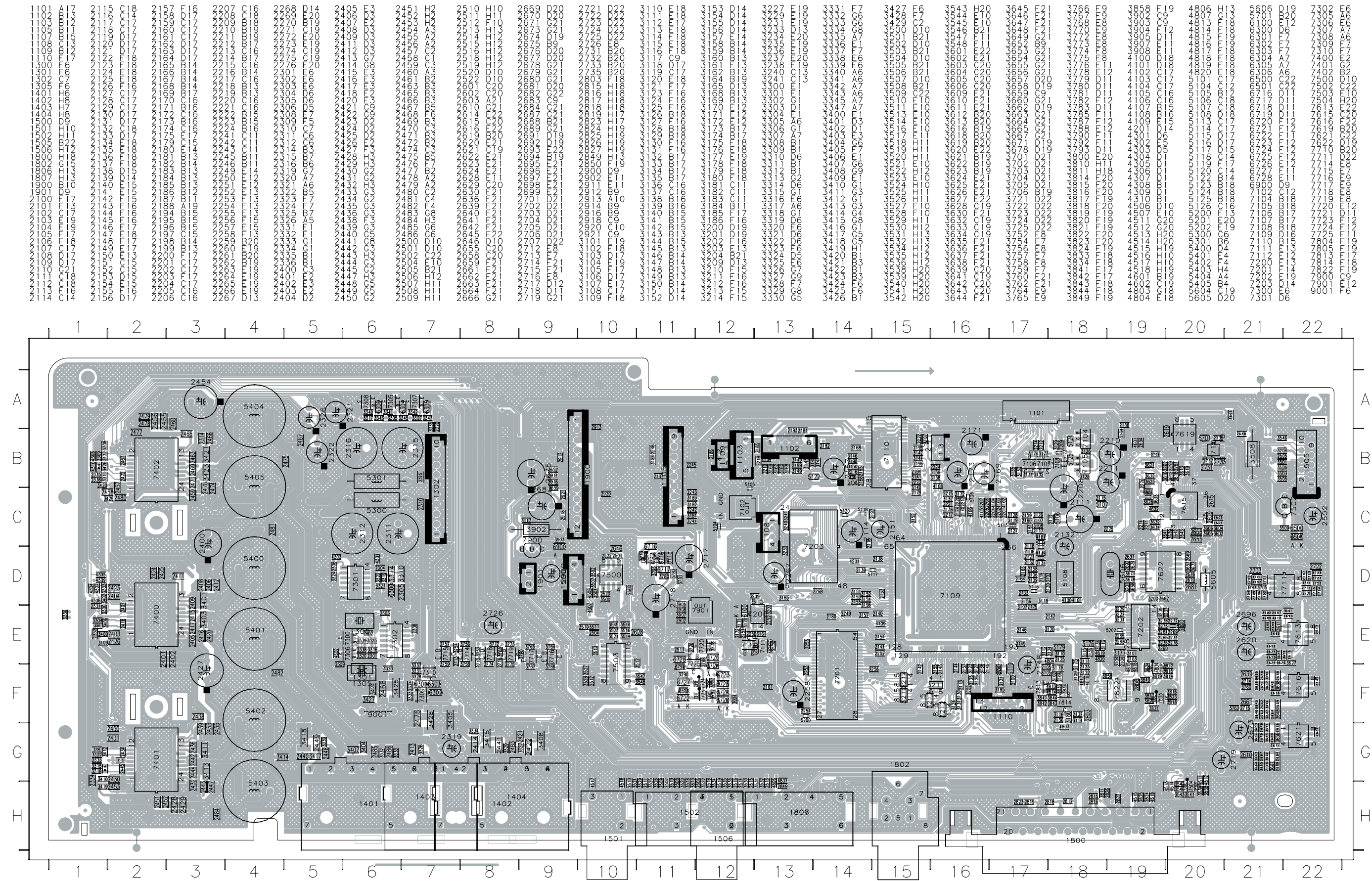


Mono Board: Circuit Diagram (Part 9)

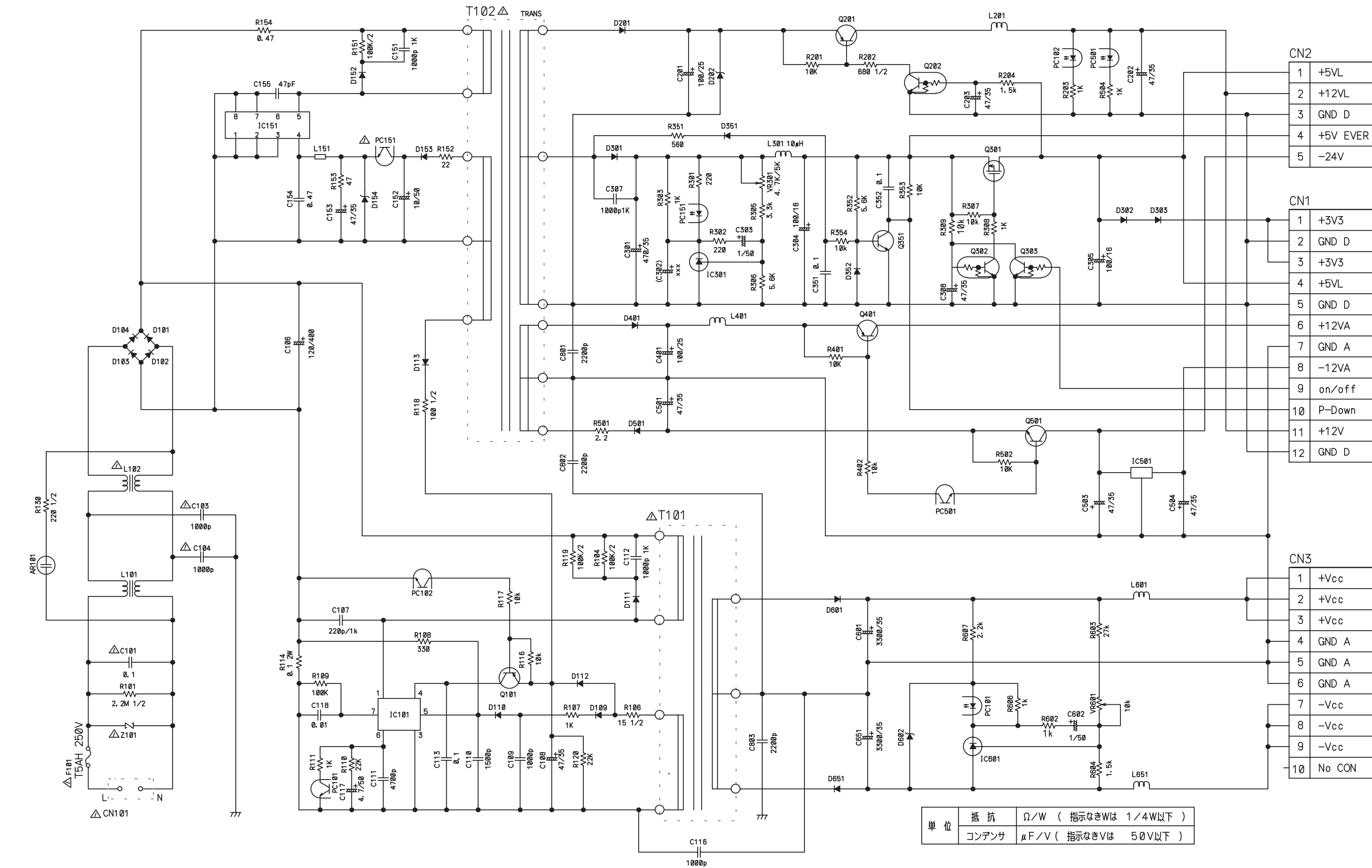


- 1900 A1
- 1901 D2
- 2900 D4
- 2902 B5
- 2911 A1
- 2912 B1
- 2913 A2
- 2914 B3
- 2916 B3
- 2918 C3
- 2920 B2
- 2921 B1
- 3107 D5
- 3902 C4
- 3903 C4
- 3904 B3
- 3905 A5
- 3907 B5
- 3908 B5
- 6900 D4
- 7900 D4
- 7901 A5
- F900 A2
- F901 A2
- F902 A2
- F903 B2
- F904 B2
- F905 B2
- F906 B2
- F907 B2
- F909 C4
- F910 D4
- F911 D3
- F912 D3
- F913 A1
- T900 A2
- T901 A2
- T902 B2
- T903 A6

Layout: Mono Board (Topview)

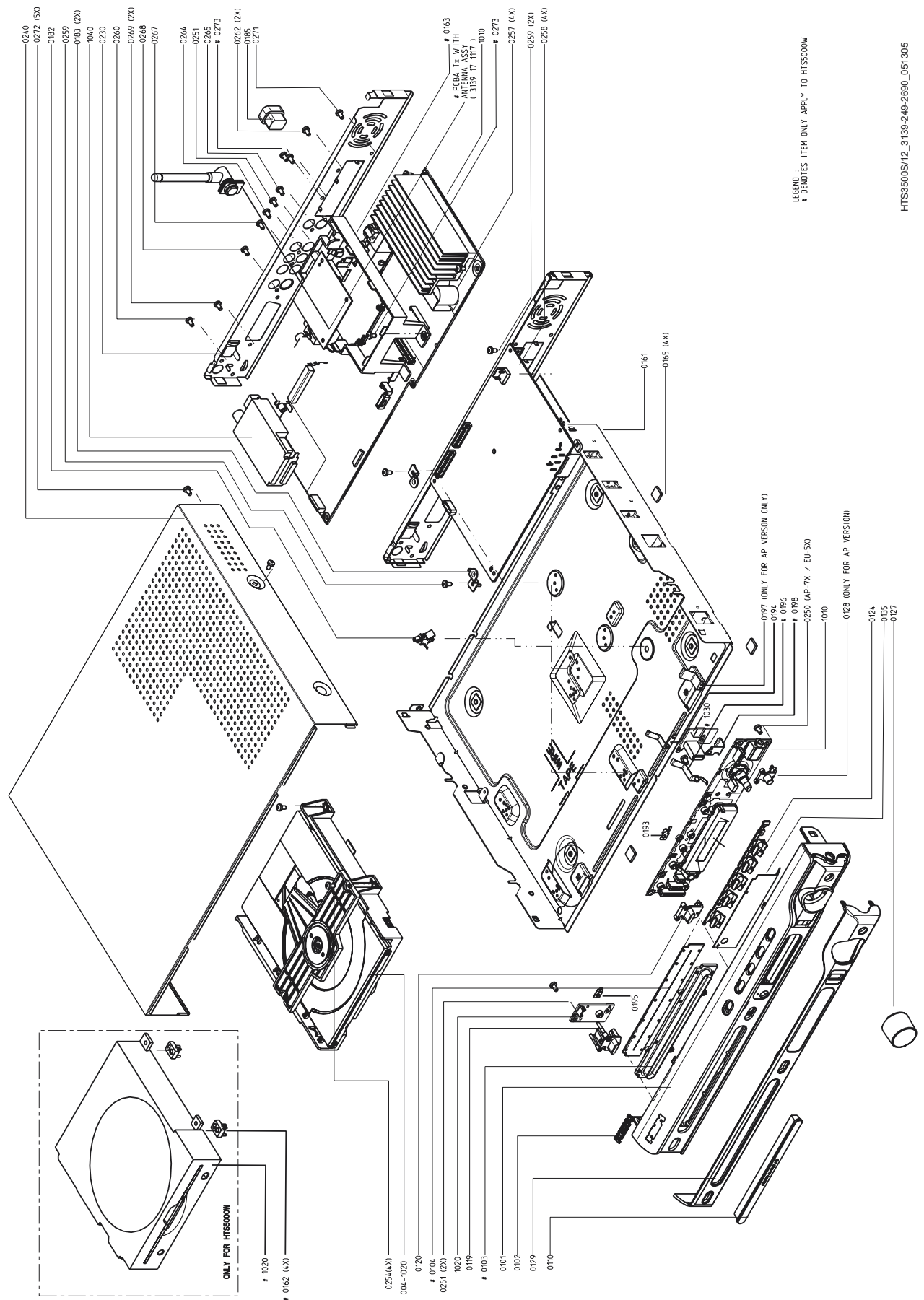


PSU Circuit Diagram (For information only)



() : no stuff

9. Exploded View of the Set



HTS3610/51

MISCELLANEOUS

0101	3139 244 08881	CAB FRONT EU PNT PRT
0102	3139 247 51831	BADGE PHILIPS ASSY SILVER
0110	3139 254 01521	COVER CD TRAY CHROME
0119	3139 244 06041	BUTTON POWER/STANDBY PNT PRT
0120	3139 244 06031	BUTTON OPEN/CLOSE PNT PRT
0124	3139 244 06021	BUTTON SET SOURCE/CTRL PNT PRT
0127	3139 254 01511	KNOB VOL CHROME
0165	3139 243 10080	CUSHION FOOT
0331	2422 076 00546	CBLE FM AERIAL 24AWG BK B
0333	3139 258 70111	REMOTE CONTROL HTS3500S EU
0336	4822 321 11499 	MAINS CORD 2.0M - EU
0342	2422 076 00468 	CBLE SCART 1M1 SCART 21P BK B
1010	3139 118 58362	PCBA MONO HTS2000D EU
1020	3139 247 11121	LOADER ASSY ST KHM RX
1030	3139 117 11061 	PCBA PSU 04-01 EU (MITSUMI)
1030	3139 117 11101 	PCBA PSU04-01-200W MITSUMI EU
1040	2422 542 00014	TUN A F ENG078VVQF EUR B
8001	3139 241 01381	FFC FOIL10P/120/10P AD FOLD

BOX SPK ASSY SW-3300HTS/12

9965 000 29183	HTS3300 SUBWOOFER
9965 000 28375	RUBBER FOOT
9965 000 28376	CABLE A'SSY 5.3M PURPLE SMK

BOX SPK ASSY CS-3610HTS/12

9965 000 30387	SPEAKER BOX -M -L
9965 000 30388	SPEAKER BOX -M -R
9965 000 30389	SPEAKER BOX -S -L
9965 000 30390	SPEAKER BOX -S -R
9965 000 30392	CABLE ASSY - 6080MM WHITE
9965 000 30393	CABLE ASSY - 6080MM RED
9965 000 30394	CABLE ASSY - 16080MM BLUE
9965 000 30395	CABLE ASSY - 16080MM GREY
9965 000 30396	SPEAKER BOX - CENTRE
9965 000 30397	RUBBER FOOT (L/R SPK)
9965 000 28371	RUBBER FOOT 40.5LX6.0WX1.5T
9965 000 28367	CABLE A'SSY 5.2M GREEN SMK S

PCBA MONO HTS2000D EU

MISCELLANEOUS

1101	2422 025 17529	CON BM H 24P F 0.50 FFC 0.3 R
1401	2422 025 18516	SOC PUSH H 6P M PUBUGY Y
1402	2422 025 18517	SOC PUSH H 6P M WHGNRD Y
1505	4822 267 10729	10FE-BT-VK-N
1506	2422 026 04754	SOC CINCH H 2P F 2L1 WHRD B
1800	2422 025 18315	SOC EURO H 21P F BK L-GRND Y

CAPACITORS

2314	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2400	2020 021 91431	ELCAP YXA 100V S 22U PM20
2408	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2411	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2412	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2416	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2420	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2427	2020 021 91431	ELCAP YXA 100V S 22U PM20
2435	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2438	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2439	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2440	4822 126 13473	220NF80-20% 50V
2443	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2447	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2454	2020 021 91431	ELCAP YXA 100V S 22U PM20
2465	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2466	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2470	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2474	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R

RESISTORS

3210	4822 117 12662	10R X4 5%
3211	4822 117 12662	10R X4 5%
3212	4822 117 12662	10R X4 5%
3213	4822 117 12662	10R X4 5%
3214	4822 117 12662	10R X4 5%
3508	4822 052 10478	4R70 5% 0,33W

COILS & FILTERS

5101	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5104	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5105	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5106	4822 157 71206	BLM21A601SPT
5107	4822 157 71206	BLM21A601SPT
5113	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5114	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5115	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5116	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5117	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5118	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5119	4822 157 71206	BLM21A601SPT
5120	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5122	4822 157 71206	BLM21A601SPT
5123	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5124	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5125	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5126	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5200	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5300	4822 157 11411	100MHZ
5301	4822 157 11411	100MHZ
5400	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5401	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5402	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5403	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5404	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5405	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5604	2422 549 43062	IND FXD SM EMI 100MHZ 600R R

DIODES

6100	4822 130 11397	BAS316
6300	3198 020 55680	DIO REG SM BZX384-C5V6 COL R
6301	4822 130 11397	BAS316
6302	4822 130 11397	BAS316
6303	4822 130 11397	BAS316
6305	4822 130 11397	BAS316
6306	4822 130 11397	BAS316
6500	4822 130 11397	BAS316
6501	9322 159 70685	DIO REG SM MM3Z9V1 (ONSE) R
6716	4822 130 11397	BAS316
6717	4822 130 11397	BAS316
6718	4822 130 11397	BAS316
6719	4822 130 11397	BAS316
6720	4822 130 11397	BAS316
6721	4822 130 11397	BAS316
6722	4822 130 11397	BAS316
6723	4822 130 11397	BAS316
6724	4822 130 11397	BAS316
6725	4822 130 11397	BAS316
6726	4822 130 11397	BAS316
6727	4822 130 11397	BAS316
6728	4822 130 11397	BAS316

TRANSISTORS & INTEGRATED CIRCUITS

7102	4822 209 17398	LD1117DT33
7104	4822 130 11565	2SB1132
7105	4822 130 11565	2SB1132
7106	9340 547 13215	FET SIG SM BSH103 (PHSE) R
7107	9340 547 13215	FET SIG SM BSH103 (PHSE) R
7108	9340 219 30115	BC817-25W
7109	9322 216 94671	IC SM MT1389FE/C-L (MEDI) Y
7110	9322 201 94668	IC SM MM1646XH (MITM) R
7112	5322 130 60159	BC846B
7201	9322 166 67668	IC SM MT48LC4M16A2TG-7E(MRNO)R
7201	9322 205 53668	IC SM A2V64S40DTP-7 (POSE) R
7201	9322 209 02668	IC SM IS42S16400B-7T (ISSI) R
7203	3139 110 53801	FLASH ASSY HTS3500
7203	9322 194 74668	IC SM M29W160ET70N6 (ST00) R
7300	5322 130 60159	BC846B
7301	5322 209 14477	HEF4013BT
7302	5322 209 11517	PC74HCU04T
7305	5322 130 60159	BC846B
7306	4822 130 60373	BC856B
7307	5322 130 60159	BC846B
7308	5322 130 60159	BC846B
7309	5322 130 60159	BC846B
7310	4822 130 60373	BC856B
7400	9352 753 45518	IC SM TDA8922BTH/N2 (PHSE) R
7401	9352 753 45518	IC SM TDA8922BTH/N2 (PHSE) R
7402	9352 753 45518	IC SM TDA8922BTH/N2 (PHSE) R
7502	4822 130 40959	BC547B
7503	5322 209 11102	HEF4052BT
7504	9340 425 20115	TRA SIG SM BC847BS (PHSE) R
7613	4822 209 30095	LM833D
7615	9322 215 93668	IC SM CS42406-CQZ (CILO) R
7616	4822 209 30095	LM833D
7619	4822 209 33411	MC78L05ACD
7621	4822 209 30095	LM833D
7720	5322 130 60159	BC846B
7721	9340 425 10115	TRA SIG SM BC857BS (PHSE) R
7723	9340 425 30115	TRA SIG SM BC847BPN (PHSE) R
7724	9340 425 30115	TRA SIG SM BC847BPN (PHSE) R

TRANSISTORS & INTEGRATED CIRCUITS

7725	4822 130 60373	BC856B
7804	9340 425 30115	TRA SIG SM BC847BPN (PHSE) R
7805	9340 425 20115	TRA SIG SM BC847BS (PHSE) R
7901	9322 144 97668	IC SM LD1117DT (ST00) R

PCBA FRONT HTS2000D EU

1010	3139 118 58602	PCBA DISPLAY HTS2000D EU
1020	3139 118 58492	PCBA STAND-BY KEY HTS3000S

**PCBA DISPLAY HTS2000D EU
MISCELLANEOUS**

1701	3139 111 04131	FTD HUV-08SS57T (LX-3900SA)
1710	4822 276 13775	SWITCH
1711	4822 276 13775	SWITCH
1712	4822 276 13775	SWITCH
1713	4822 276 13775	SWITCH
1714	4822 276 13775	SWITCH
1716	4822 276 13775	SWITCH

DIODES

6700	9322 179 76676	LED VS LTL-816EELC (LITO) A
6701	9340 548 54115	DIO REG SM PDZ6.2B (PHSE) R
6704	4822 130 11397	BAS316
6705	4822 130 11397	BAS316
6706	4822 130 11397	BAS316
6707	4822 130 11397	BAS316
6708	4822 130 11397	BAS316
6709	4822 130 11397	BAS316
6710	4822 130 11397	BAS316
6711	4822 130 11397	BAS316
6712	4822 130 11397	BAS316
6713	4822 130 11397	BAS316
6714	4822 130 11397	BAS316
6715	4822 130 11397	BAS316
6716	4822 130 11397	BAS316
6717	4822 130 11397	BAS316
6718	4822 130 11397	BAS316
6719	4822 130 11397	BAS316
6720	4822 130 11397	BAS316

TRANSISTORS & INTEGRATED CIRCUITS

7701	9322 185 95667	IR RECEIVER TSOP4836 (VISH)L
7704	5322 130 60159	BC846B
7705	4822 130 42804	BC817-25
7706	4822 130 60373	BC856B
7707	5322 130 60159	BC846B
7708	9322 217 04671	IC SM V63111LF (VAIT) Y

PCBA STAND-BY KEY HTS3000S

1901	4822 276 13775	SWITCH
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HTS3610/12

MISCELLANEOUS

0102	3139 247 51831	BADGE PHILIPS ASSY SILVER
0110	3139 254 01521	COVER CD TRAY CHROME
0119	3139 244 06041	BUTTON POWER/STANDBY PNT PRT
0120	3139 244 06031	BUTTON OPEN/CLOSE PNT PRT
0124	3139 244 06021	BUTTON SET SOURCE/CTRL PNT PRT
0127	3139 254 01511	KNOB VOL CHROME
0165	3139 243 10080	CUSHION FOOT
0331	2422 076 00546	CBLE FM AERIAL 24AWG BK B
0333	3139 258 70111	REMOTE CONTROL HTS3500S EU
0336	4822 321 11499 	MAINS CORD 2.0M - EU
0342	2422 076 00468 	CBLE SCART 1M1 SCART 21P BK B
1010	3139 118 58362	PCBA MONO HTS2000D EU
1020	3139 247 11121	LOADER ASSY ST KHM RX
1030	3139 117 11101 	PCBA PSU04-01-200W MITSUMI EU
1030	3139 117 11061 	PCBA PSU 04-01 EU (MITSUMI)
1040	2422 542 00014	TUN A F ENG078VVQF EUR B
8001	3139 241 01381	FFC FOIL10P/120/10P AD FOLD

BOX SPK ASSY SW-3300HTS/12

9965 000 29183	HTS3300 SUBWOOFER
9965 000 28375	RUBBER FOOT
9965 000 28376	CABLE A'SSY 5.3M PURPLE SMK

BOX SPK ASSY CS-3610HTS/12

9965 000 30387	SPEAKER BOX -M -L
9965 000 30388	SPEAKER BOX -M -R
9965 000 30389	SPEAKER BOX -S -L
9965 000 30390	SPEAKER BOX -S -R
9965 000 30392	CABLE ASSY - 6080MM WHITE
9965 000 30393	CABLE ASSY - 6080MM RED
9965 000 30394	CABLE ASSY - 16080MM BLUE
9965 000 30395	CABLE ASSY - 16080MM GREY
9965 000 30396	SPEAKER BOX - CENTRE
9965 000 30397	RUBBER FOOT (L/R SPK)
9965 000 28371	RUBBER FOOT 40.5LX6.0WX1.5T
9965 000 28367	CABLE A'SSY 5.2M GREEN SMK S

PCBA MONO HTS2000D EU

MISCELLANEOUS

1101	2422 025 17529	CON BM H 24P F 0.50 FFC 0.3 R
1401	2422 025 18516	SOC PUSH H 6P M PUBUGY Y
1402	2422 025 18517	SOC PUSH H 6P M WHGNRD Y
1505	4822 267 10729	10FE-BT-VK-N
1506	2422 026 04754	SOC CINCH H 2P F 2L1 WHRD B
1800	2422 025 18315	SOC EURO H 21P F BK L-GRND Y

CAPACITORS

2314	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2400	2020 021 91431	ELCAP YXA 100V S 22U PM20
2408	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2411	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2412	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2416	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2420	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2427	2020 021 91431	ELCAP YXA 100V S 22U PM20
2435	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2438	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2439	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2440	4822 126 13473	220NF80-20% 50V
2443	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2447	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2454	2020 021 91431	ELCAP YXA 100V S 22U PM20
2465	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2466	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2470	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R
2474	2238 600 15614	CER2 0805 X7R 100V 220P PM10 R

RESISTORS

3210	4822 117 12662	10R X4 5%
3211	4822 117 12662	10R X4 5%
3212	4822 117 12662	10R X4 5%
3213	4822 117 12662	10R X4 5%
3214	4822 117 12662	10R X4 5%
3508	4822 052 10478	4R70 5% 0,33W

COILS & FILTERS

5101	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5104	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5105	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5106	4822 157 71206	BLM21A601SPT
5107	4822 157 71206	BLM21A601SPT
5113	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5114	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5115	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5116	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5117	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5118	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5119	4822 157 71206	BLM21A601SPT
5120	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5122	4822 157 71206	BLM21A601SPT
5123	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5124	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5125	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5126	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5200	2422 549 43062	IND FXD SM EMI 100MHZ 600R R
5300	4822 157 11411	100MHZ
5301	4822 157 11411	100MHZ
5400	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5401	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5402	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5403	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5404	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5405	2422 536 00822	IND FXD 16RHBP S 22U P10M20 B
5604	2422 549 43062	IND FXD SM EMI 100MHZ 600R R

DIODES

6100	4822 130 11397	BAS316
6300	3198 020 55680	DIO REG SM BZX384-C5V6 COL R
6301	4822 130 11397	BAS316
6302	4822 130 11397	BAS316
6303	4822 130 11397	BAS316
6305	4822 130 11397	BAS316
6306	4822 130 11397	BAS316
6500	4822 130 11397	BAS316
6501	9322 159 70685	DIO REG SM MM3Z9V1 (ONSE) R
6716	4822 130 11397	BAS316
6717	4822 130 11397	BAS316
6718	4822 130 11397	BAS316
6719	4822 130 11397	BAS316
6720	4822 130 11397	BAS316
6721	4822 130 11397	BAS316
6722	4822 130 11397	BAS316
6723	4822 130 11397	BAS316
6724	4822 130 11397	BAS316
6725	4822 130 11397	BAS316
6726	4822 130 11397	BAS316
6727	4822 130 11397	BAS316
6728	4822 130 11397	BAS316

TRANSISTORS & INTEGRATED CIRCUITS

7102	4822 209 17398	LD1117DT33
7104	4822 130 11565	2SB1132
7105	4822 130 11565	2SB1132
7106	9340 547 13215	FET SIG SM BSH103 (PHSE) R
7107	9340 547 13215	FET SIG SM BSH103 (PHSE) R
7108	9340 219 30115	BC817-25W
7109	9322 216 94671	IC SM MT1389FE/C-L (MEDI) Y
7110	9322 201 94668	IC SM MM1646XH (MITM) R
7112	5322 130 60159	BC846B
7201	9322 166 67668	IC SM MT48LC4M16A2TG-7E(MRNO)R
7201	9322 205 53668	IC SM A2V64S40DTP-7 (POSE) R
7201	9322 209 02668	IC SM IS42S16400B-7T (ISSI) R
7203	3139 110 53801	FLASH ASSY HTS3500
7203	9322 194 74668	IC SM M29W160ET70N6 (ST00) R
7300	5322 130 60159	BC846B
7301	5322 209 14477	HEF4013BT
7302	5322 209 11517	PC74HCU04T
7305	5322 130 60159	BC846B
7306	4822 130 60373	BC856B
7307	5322 130 60159	BC846B
7308	5322 130 60159	BC846B
7309	5322 130 60159	BC846B
7310	4822 130 60373	BC856B
7400	9352 753 45518	IC SM TDA8922BTH/N2 (PHSE) R
7401	9352 753 45518	IC SM TDA8922BTH/N2 (PHSE) R
7402	9352 753 45518	IC SM TDA8922BTH/N2 (PHSE) R
7502	4822 130 40959	BC547B
7503	5322 209 11102	HEF4052BT
7504	9340 425 20115	TRA SIG SM BC847BS (PHSE) R
7613	4822 209 30095	LM833D
7615	9322 215 93668	IC SM CS42406-CQZ (CILO) R
7616	4822 209 30095	LM833D
7619	4822 209 33411	MC78L05ACD
7621	4822 209 30095	LM833D
7720	5322 130 60159	BC846B
7721	9340 425 10115	TRA SIG SM BC857BS (PHSE) R
7723	9340 425 30115	TRA SIG SM BC847BPN (PHSE) R
7724	9340 425 30115	TRA SIG SM BC847BPN (PHSE) R

TRANSISTORS & INTEGRATED CIRCUITS

7725	4822 130 60373	BC856B
7804	9340 425 30115	TRA SIG SM BC847BPN (PHSE) R
7805	9340 425 20115	TRA SIG SM BC847BS (PHSE) R
7901	9322 144 97668	IC SM LD1117DT (ST00) R

PCBA FRONT HTS2000D EU

1010	3139 118 58602	PCBA DISPLAY HTS2000D EU
1020	3139 118 58492	PCBA STAND-BY KEY HTS3000S

PCBA DISPLAY HTS2000D EU**MISCELLANEOUS**

1701	3139 111 04131	FTD HUV-08SS57T (LX-3900SA)
1710	4822 276 13775	SWITCH
1711	4822 276 13775	SWITCH
1712	4822 276 13775	SWITCH
1713	4822 276 13775	SWITCH
1714	4822 276 13775	SWITCH
1716	4822 276 13775	SWITCH

DIODES

6700	9322 179 76676	LED VS LTL-816EELC (LITO) A
6701	9340 548 54115	DIO REG SM PDZ6.2B (PHSE) R
6704	4822 130 11397	BAS316
6705	4822 130 11397	BAS316
6706	4822 130 11397	BAS316
6707	4822 130 11397	BAS316
6708	4822 130 11397	BAS316
6709	4822 130 11397	BAS316
6710	4822 130 11397	BAS316
6711	4822 130 11397	BAS316
6712	4822 130 11397	BAS316
6713	4822 130 11397	BAS316
6714	4822 130 11397	BAS316
6715	4822 130 11397	BAS316
6716	4822 130 11397	BAS316
6717	4822 130 11397	BAS316
6718	4822 130 11397	BAS316
6719	4822 130 11397	BAS316
6720	4822 130 11397	BAS316

TRANSISTORS & INTEGRATED CIRCUITS

7701	9322 185 95667	IR RECEIVER TSOP4836 (VISH)L
7704	5322 130 60159	BC846B
7705	4822 130 42804	BC817-25
7706	4822 130 60373	BC856B
7707	5322 130 60159	BC846B
7708	9322 217 04671	IC SM V63111LF (VAIT) Y

PCBA STAND-BY KEY HTS3000S

1901	4822 276 13775	SWITCH
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