

Service Service Service



Service Manual

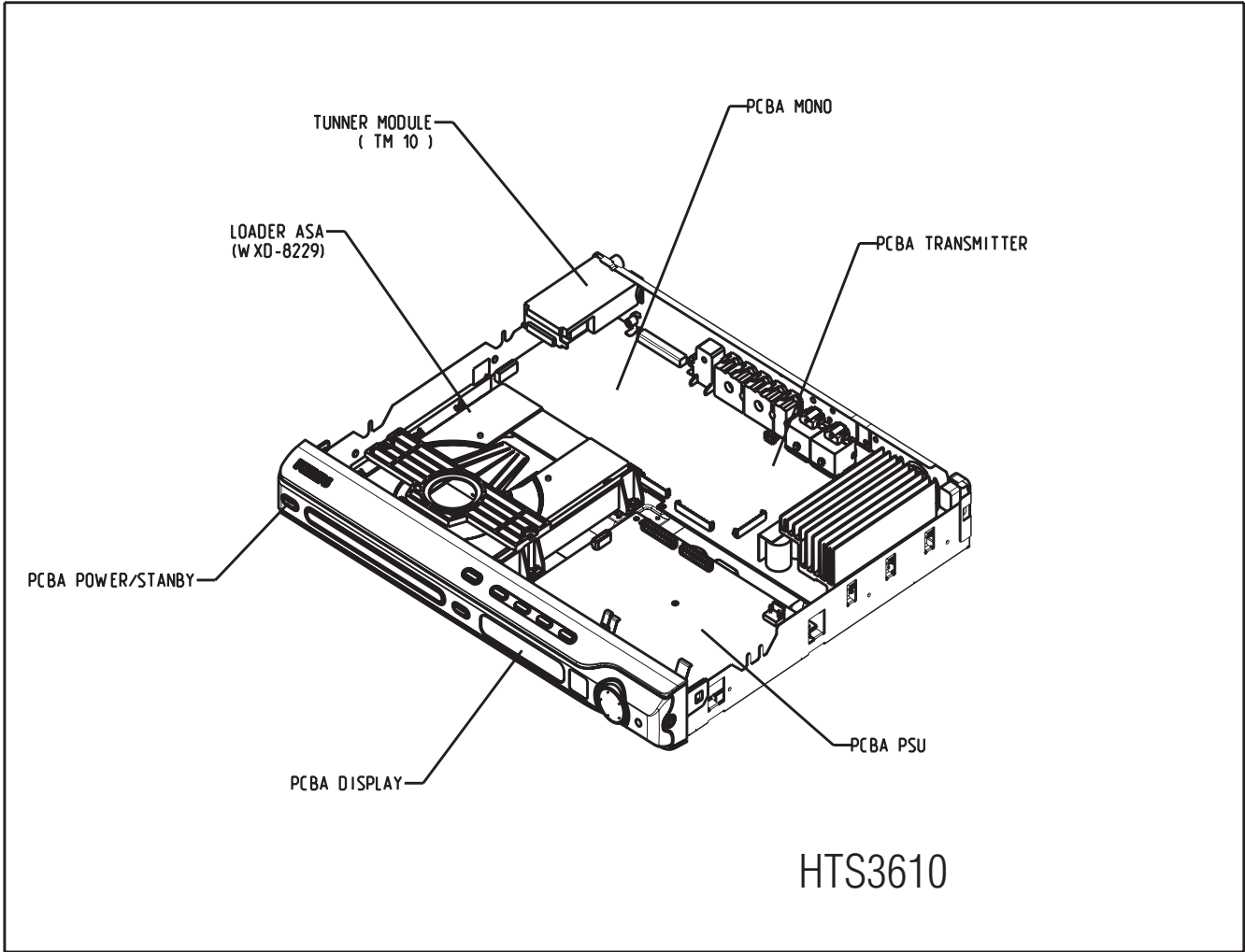


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LOCATION OF PC BOARDS



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

3. Directions For Use

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

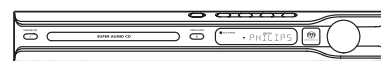
Home Theatre System

Quick Start Guide

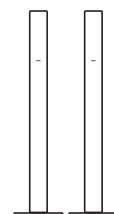


- 1 Connect
- 2 Setup
- 3 Enjoy

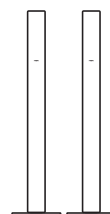
What's in the Box



DVD system



Front speakers
(left & right)



Rear speakers
(left & right)



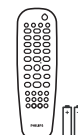
Centre speaker



Subwoofer



Quick start guide



Remote control
and 2 batteries



Scart cable
(black plug)



AM/MW
loop antenna



User manual



FM wire antenna

PHILIPS

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

- 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

Tip

- Check if the AC power cord is properly connected.
- Press the STANDBY-ON on the front of the DVD system to turn on the power.

No picture

- Press DISC on remote control.
- Check connection to TV and ensure the plugs are firmly in place.

No sound or distorted sound

- Adjust the volume.
- Check the speaker connections and settings.
- Check audio connections and press SOURCE button to select the correct input source.

Remote control does not work

- 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

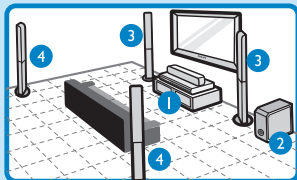


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1 Connect

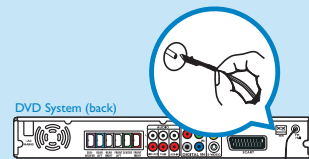
A Position Speakers & Subwoofer

- 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.

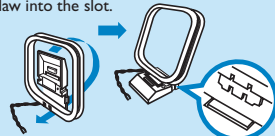


B Fix Antennas

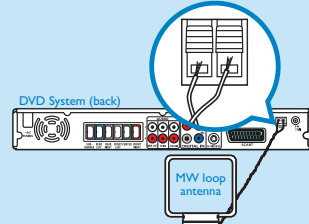
- 1 Connect the FM antenna to the FM socket, extend the antenna and fix it on the wall.



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

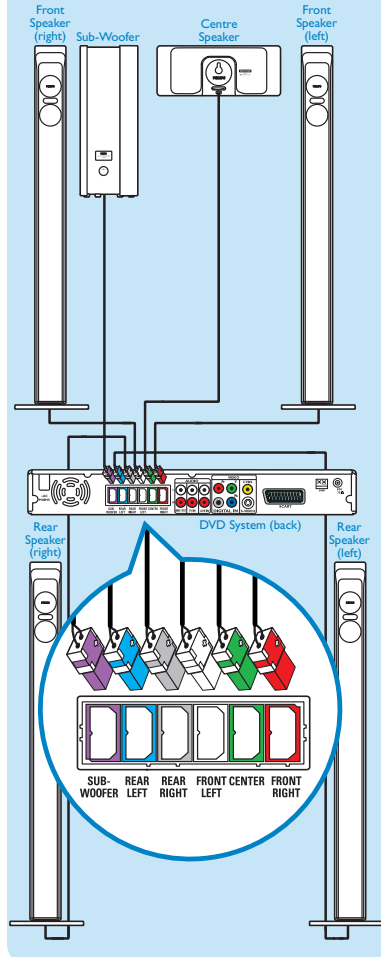


- 3 Push back tab and insert each wire into slot.



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.

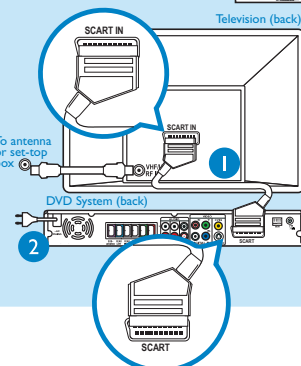


D Connect DVD system to TV

- 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.

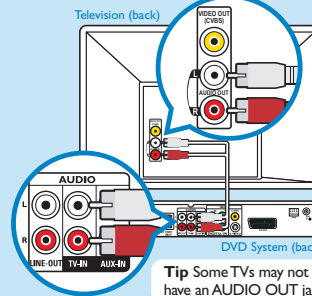
- 2 Plug in the power cable of the DVD system to an AC outlet.

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



E Connect Audio from TV to DVD System (Optional)

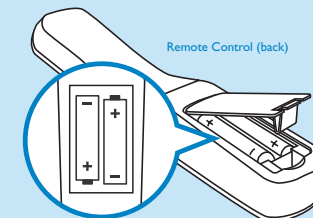
Use the red & white audio cables to connect the red & white TV-IN sockets on the rear of the DVD system and the red & white AUDIO OUT sockets on the TV.



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.



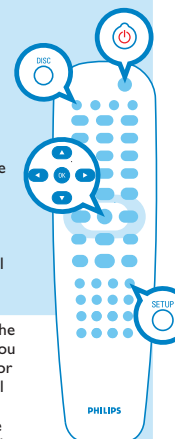
B Find Correct Viewing Channel

- 1 Press **STANDBY-ON** (power button) on the DVD system's remote control.
- 2 Press **DISC** (channel down button) on the remote control repeatedly until 'DISC' appears on the front panel.
- 3 Press **SETUP** (channel up button).
- 4 Switch on the TV.
- 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.

- 6 Press **SETUP** (power button) 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.

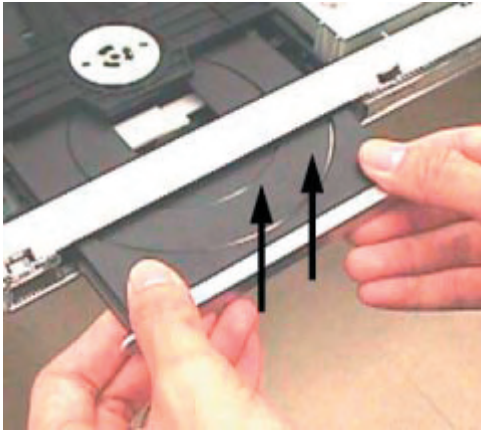


Figure 4-2

- 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.

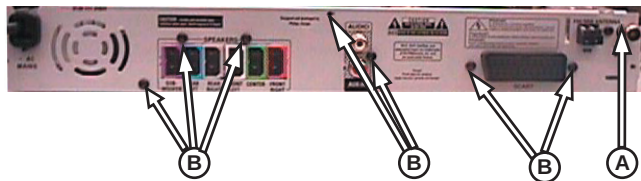


Figure 4-3

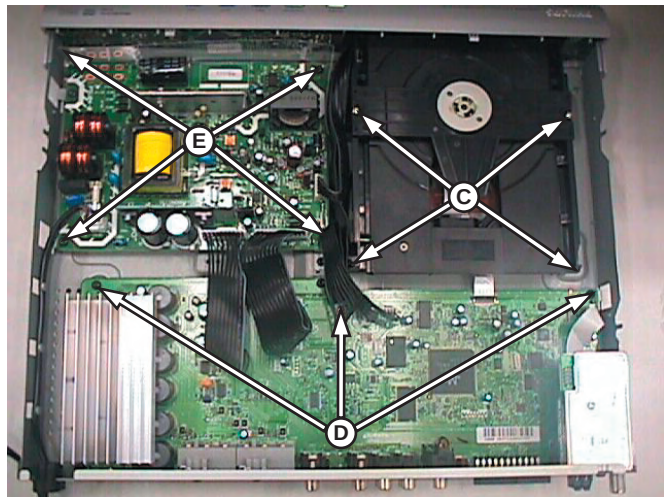
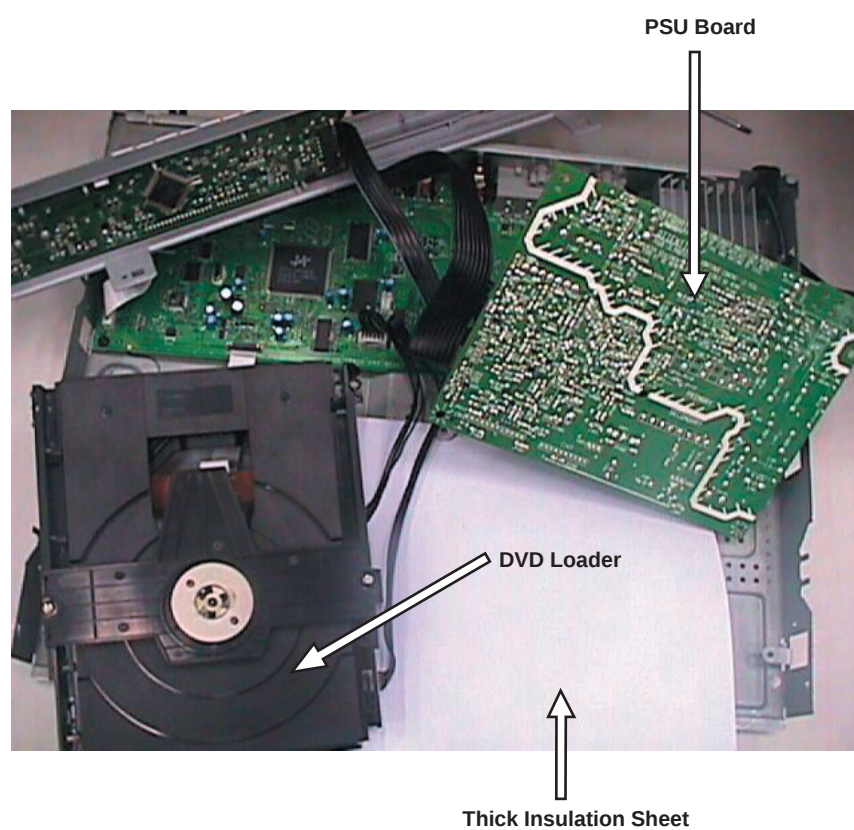
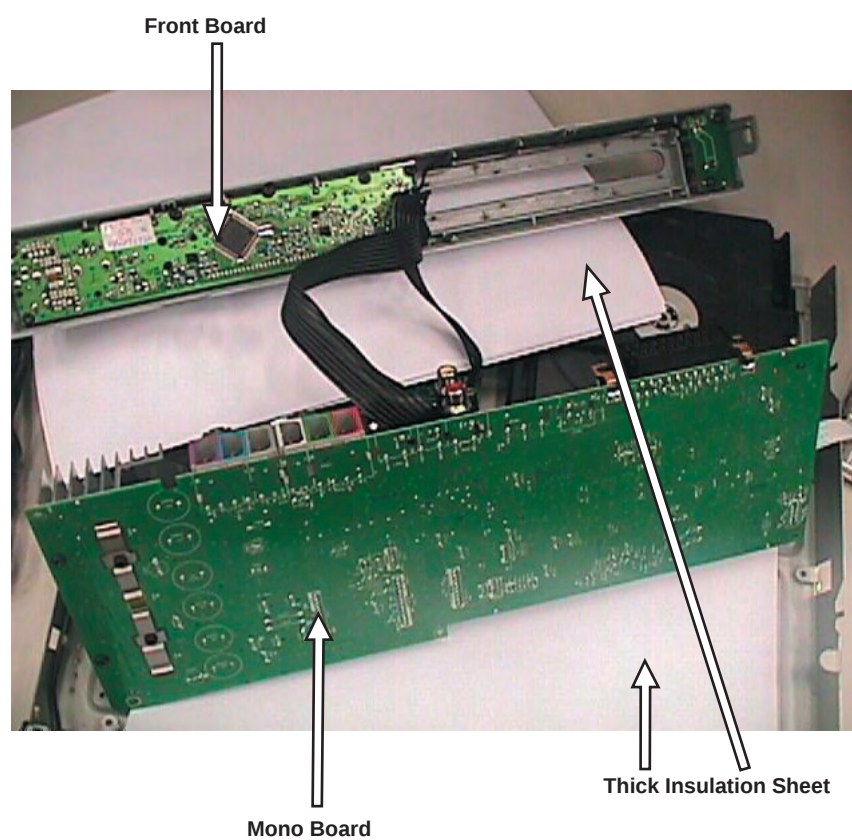
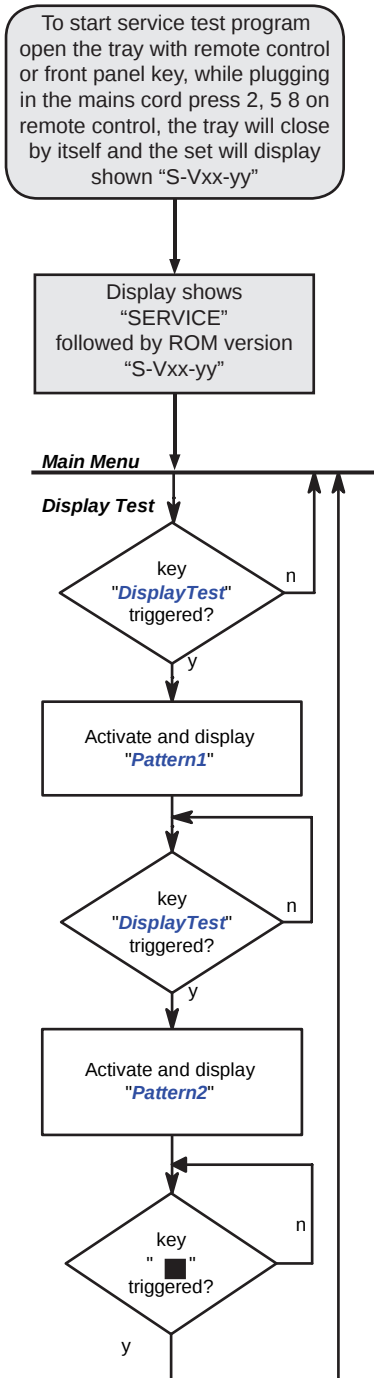


Figure 4-4

4.3 Service Positions



5. Service Test Program



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.

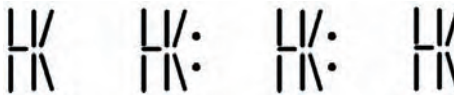
Pattern 1: *Default: All display control pins are ON*

- 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.

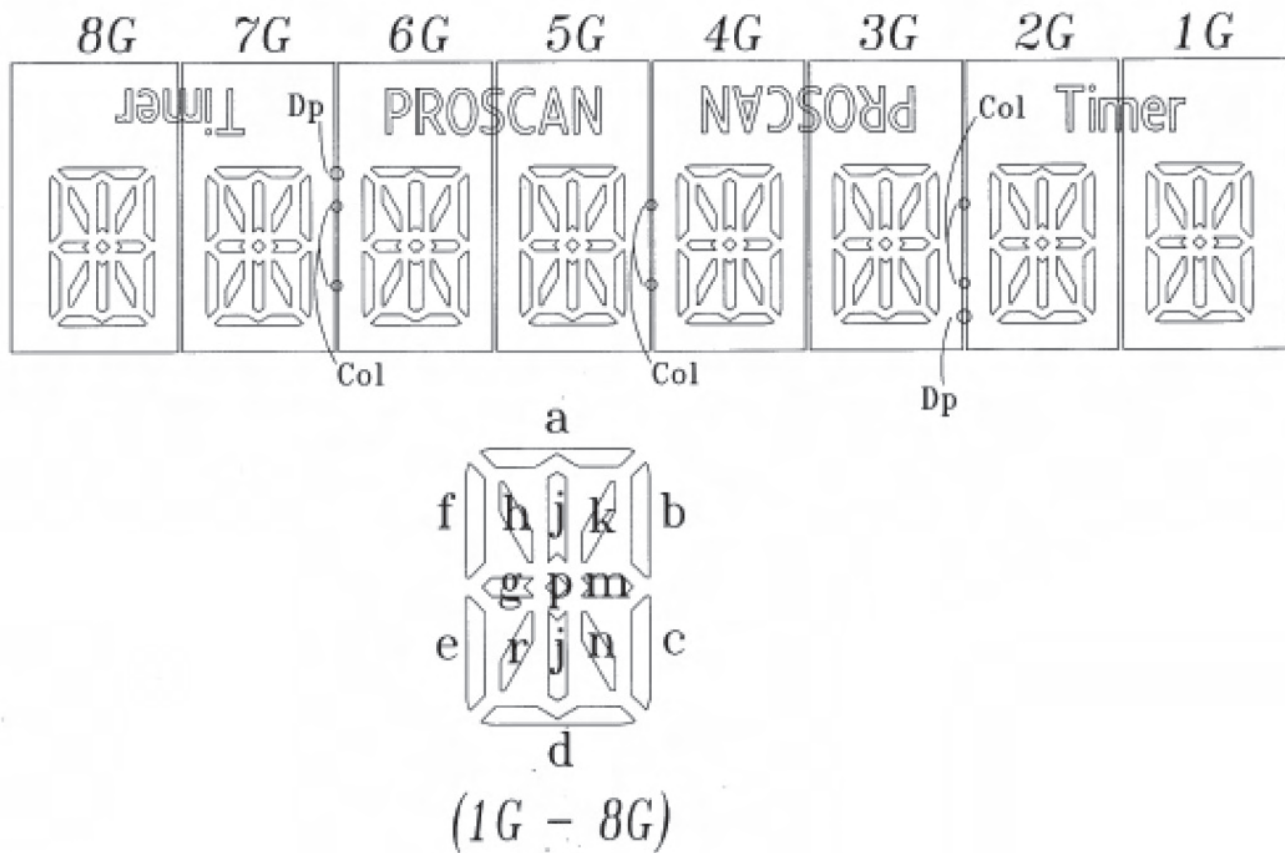
To activate Trade Mode:

- 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:

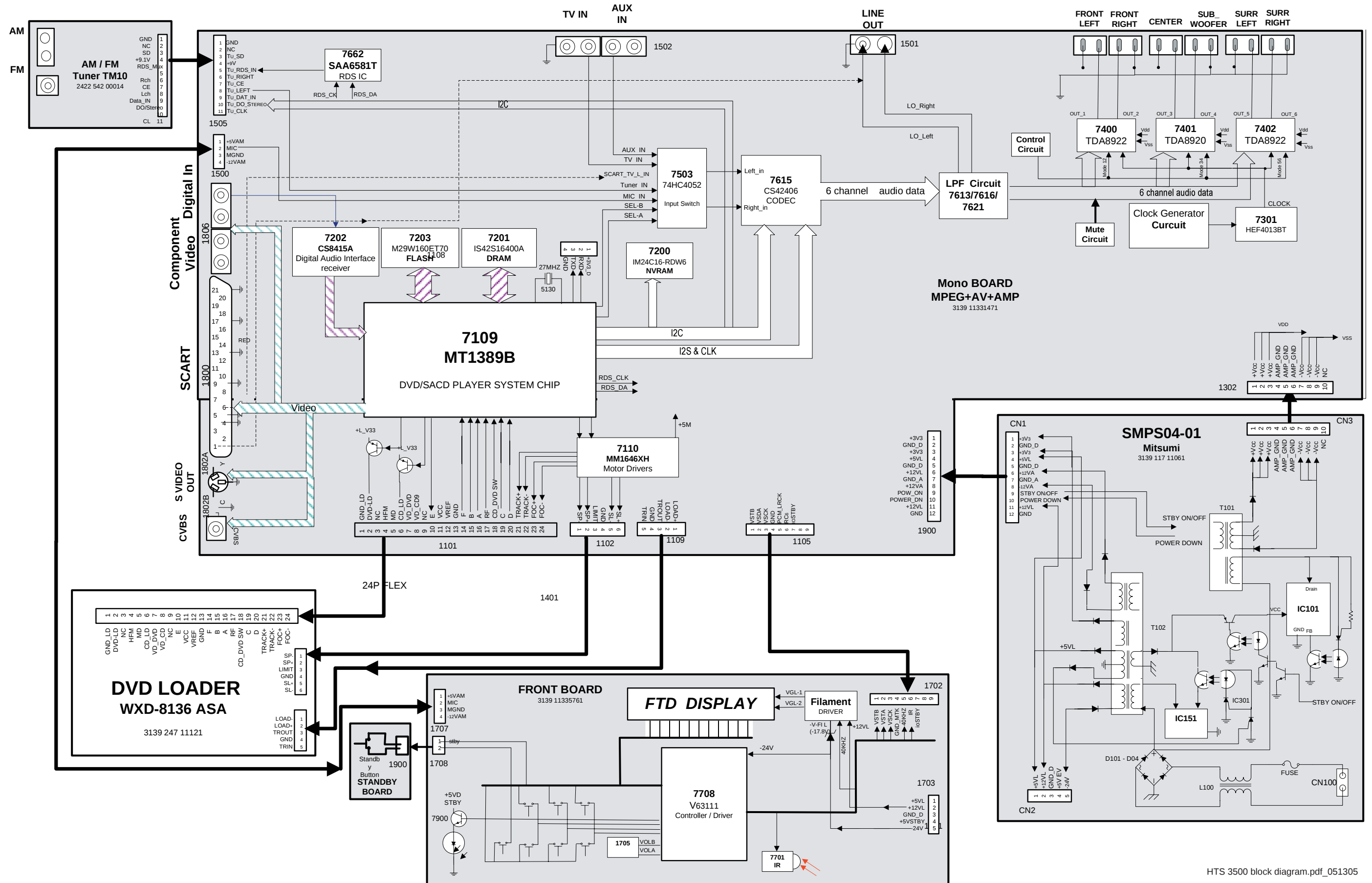
- 1) Power up the set and select DISC source.
- 2) Open tray by press and hold "STOP" button on the RC.
- 3) Then press buttons <2> <5> <9> on the RC.
- 4) The display shows 'TRA OFF' and the tray will close.
 Trade Mode is now disabled.

6. FTD Display Pin Connection

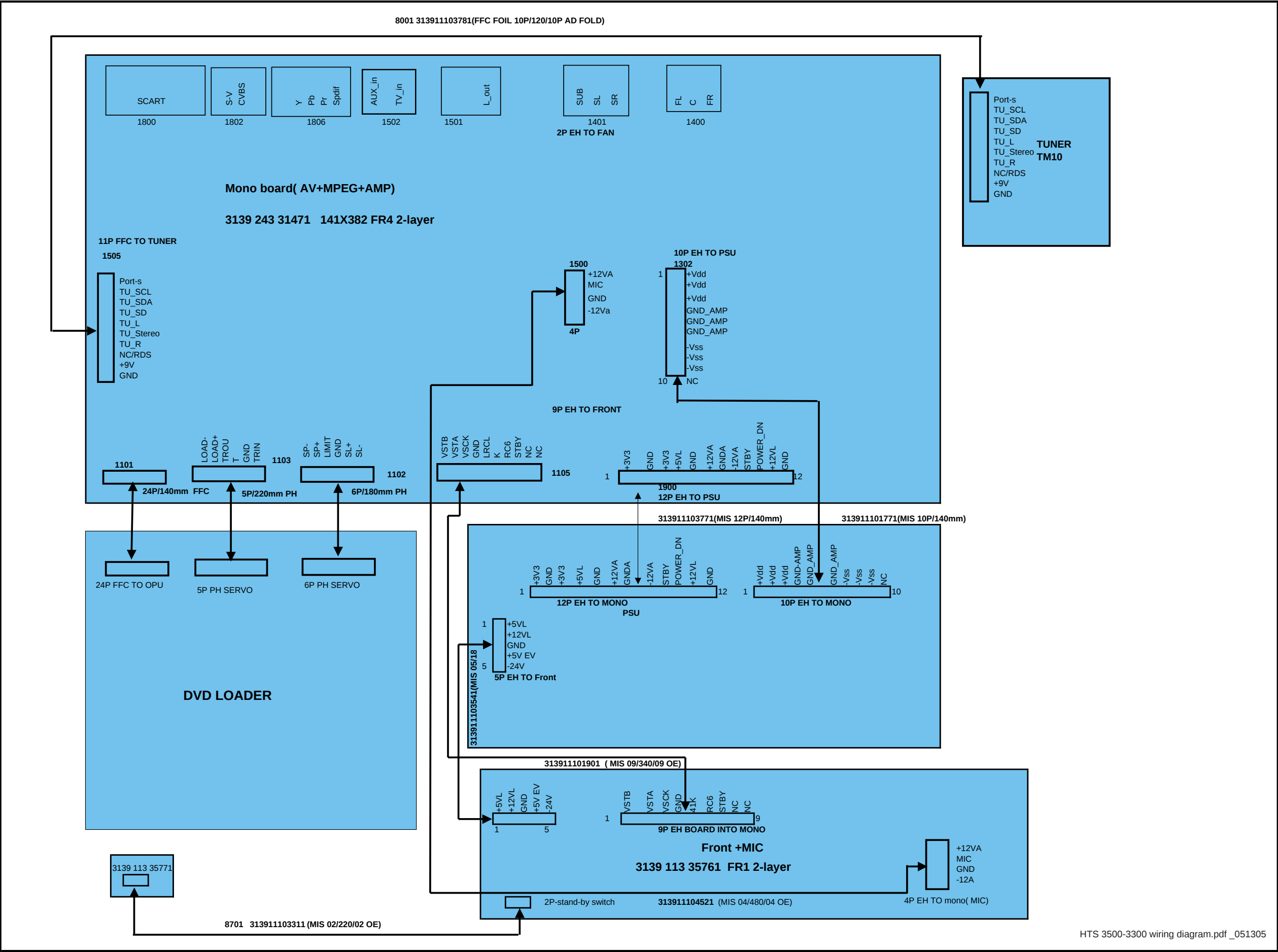


	8G	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	a	a	a	a
P2	j	j	j	j	j	j	j	j
P3	h	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d	d
P14		col		col		col		
P15	p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

7. Block Diagram

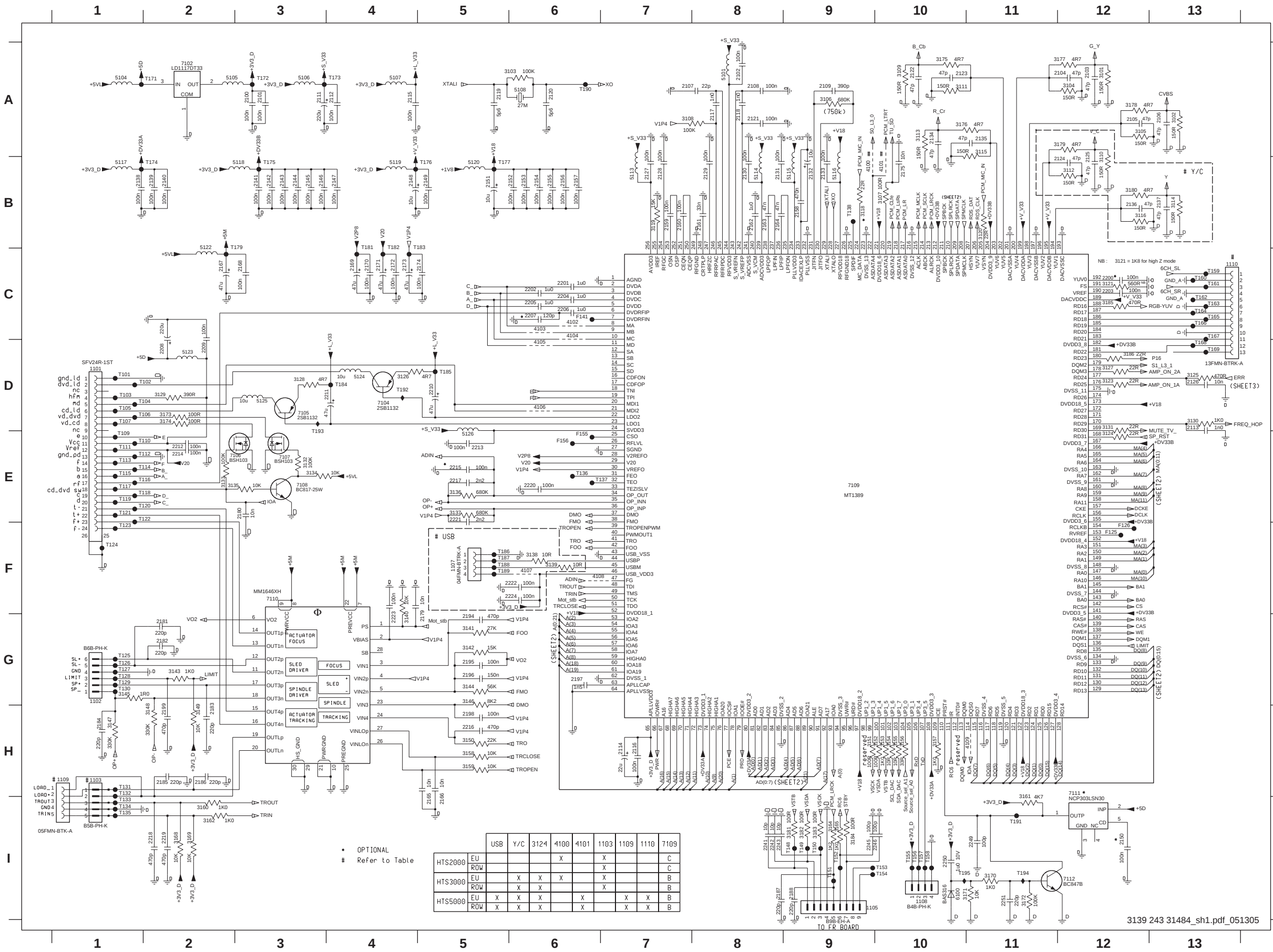


Wiring Diagram

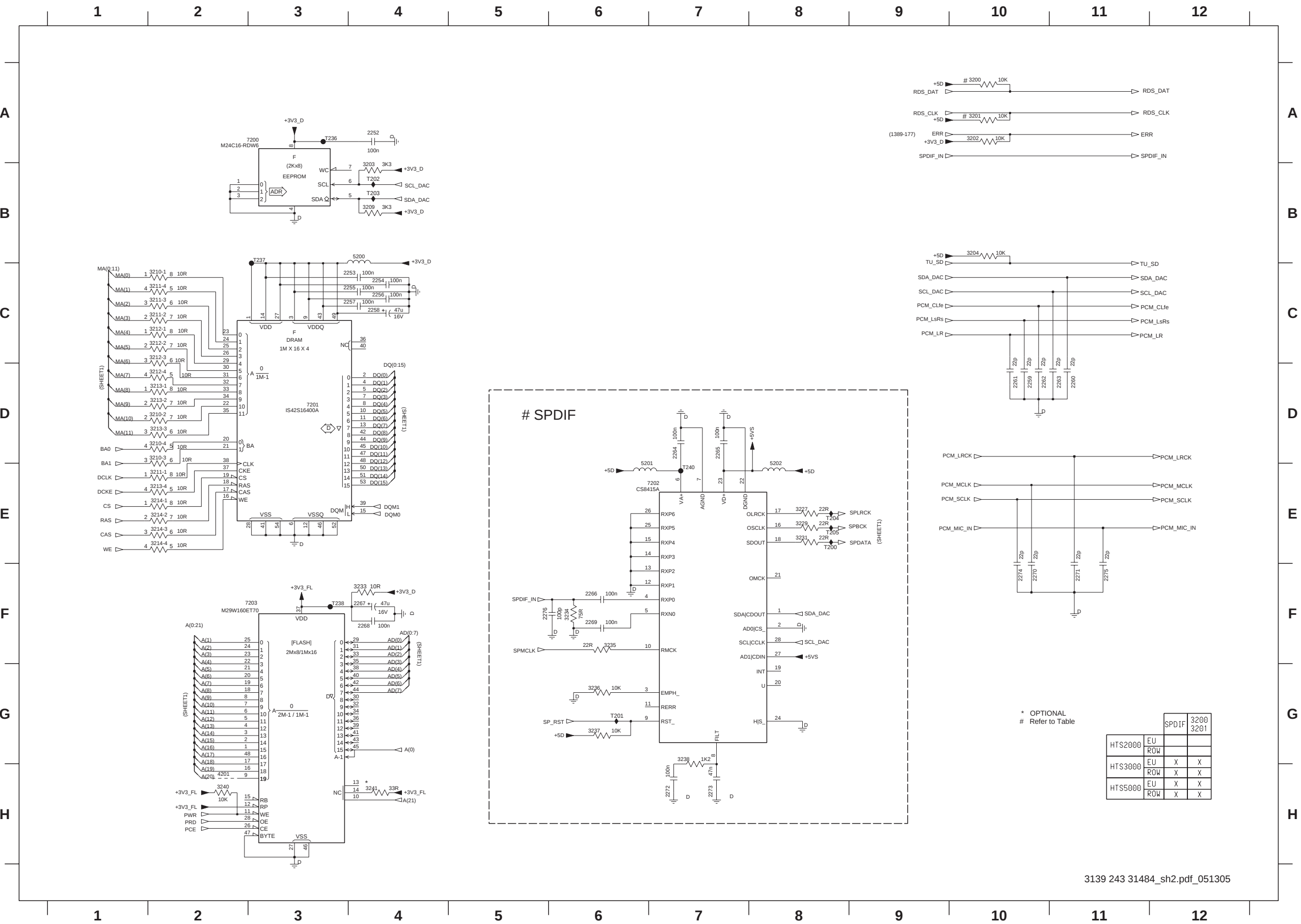


1701 B12	6720 I9
1702 H2	7701 H2
1703 E2	7702-1 B5
1705 G4	7702-2 B6
1707 D2	7703 C4
1708 G8	7704 E5
1709 B2	7705 I2
1710 H6	7706 I2
1711 H7	7707 I3
1712 H7	7708 E10
1713 H8	7701 E2
1714 G6	7702 E2
1715 G7	7703 E2
1716 G7	7704 E2
1717 G9	7705 E2
2700 B3	7706 F3
2701 B4	7707 F3
2702 B5	7708 F3
2703 B5	7709 F3
2704 B5	7710 F3
2705 C4	7711 F3
2706 C5	7712 F3
2707 C6	7713 G3
2708 B6	7714 G3
2709 C8	7715 D10
2710 C8	7716 C9
2711 D10	7717 C11
2712 E8	7718 B2
2713 E8	7719 B2
2714 E9	7720 B2
2715 I13	7721 D2
2716 E3	7723 D2
2717 E3	7724 D2
2718 H3	7725 E6
2719 G8	7726 H3
2720 G9	7727 I3
2721 I11	7728 I4
2722 I12	7729 D8
2723 H12	7730 E10
2724 I11	7731 D11
2725 E5	7732 F10
2726 D11	7733 G9
2700 C2	7734 C4
2701 B2	7735 D2
2702 B3	
2703 B5	
2704 C5	
2705 B6	
2706 C6	
2707 C6	
2708 B7	
2709 D4	
2710 C9	
2711 C11	
2712 C9	
2713 C11	
2714 D9	
2715 D10	
2716 E7	
2717 E7	
2718 E7	
2719 E5	
2720 E6	
2721 E4	
2722 E6	
2723 E4	
2724 H3	
2725 H3	
2726 I4	
2727 I4	
2728 I6	
2729 I6	
2730 I7	
2731 I8	
2732 F9	
2733 I11	
2734 I11	
2735 H13	
2736 I13	
2737 I13	
2738 I13	
2739 C7	
2740 D4	
2741 G5	
2742 G5	
2743 H10	
2744 H10	
2745 E5	
2746 D8	
2747 G9	
2701 G9	
2703 G4	
2704 G4	
2705 B3	
2706 E5	
2701 D10	
2702 D9	
2703 C4	
2704 E10	
2705 F12	
2706 F12	
2707 G12	
2708 G12	
2709 G12	
2710 G12	
2711 G13	
2712 G13	
2713 G13	
2714 G13	
2715 G13	
2716 G6	
2717 G7	
2718 H9	
2719 H9	

Mono Board: Circuit Diagram (Part 1)



Mono Board: Circuit Diagram (Part 2)

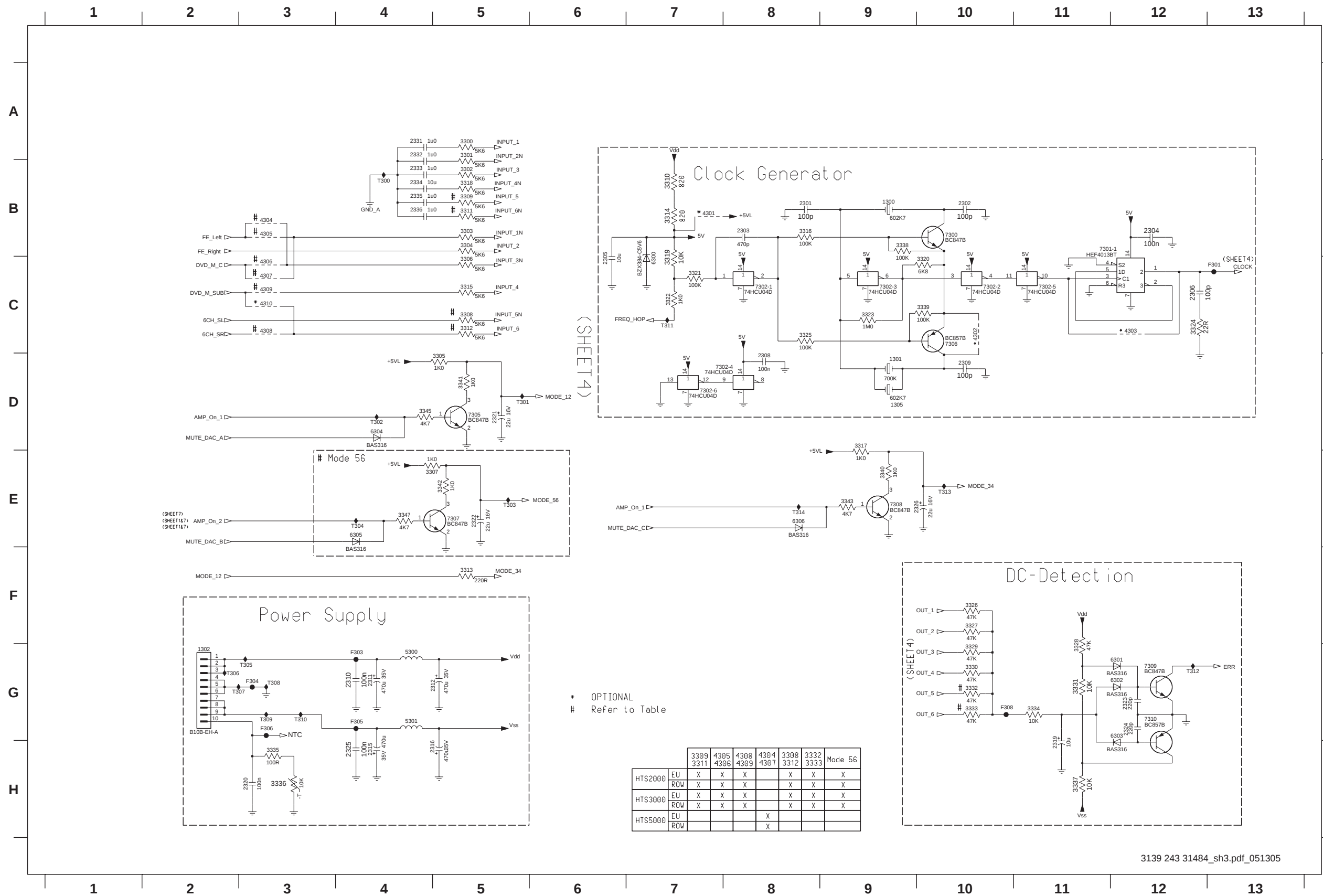


- 2252 A4
- 2253 C4
- 2254 C4
- 2255 C4
- 2256 C4
- 2257 C4
- 2258 C4
- 2259 D10
- 2260 D11
- 2261 D10
- 2262 D10
- 2263 D11
- 2264 D7
- 2265 D7
- 2266 F6
- 2267 F4
- 2268 F4
- 2269 F6
- 2270 F10
- 2271 F11
- 2272 H7
- 2273 H7
- 2274 F10
- 2275 F11
- 2276 F5
- 3200 A10
- 3201 A10
- 3202 A10
- 3203 B4
- 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
- 3213-4 E2
- 3214-1 E2
- 3214-2 E2
- 3214-3 E2
- 3214-4 E2
- 3227 E8
- 3229 E8
- 3231 E8
- 3233 F4
- 3234 F6
- 3235 F6
- 3236 G6
- 3237 G6
- 3238 G7
- 3240 H2
- 3241 H4
- 4201 H2
- 5200 B4
- 5201 E6
- 5202 E8
- 7200 A3
- 7201 D3
- 7202 E7
- 7203 F3
- 7200 E8
- 7201 G6
- 7202 B4
- 7203 B4
- 7204 E8
- 7205 E8
- 7236 A3
- 7237 B3
- 7238 F3
- 7240 E7

* OPTIONAL
Refer to Table

		SPDIF	
		3200	3201
HTS2000	EU		
	ROW		
HTS3000	EU	X	X
	ROW	X	X
HTS5000	EU	X	X
	ROW	X	X

Mono Board: Circuit Diagram (Part 3)

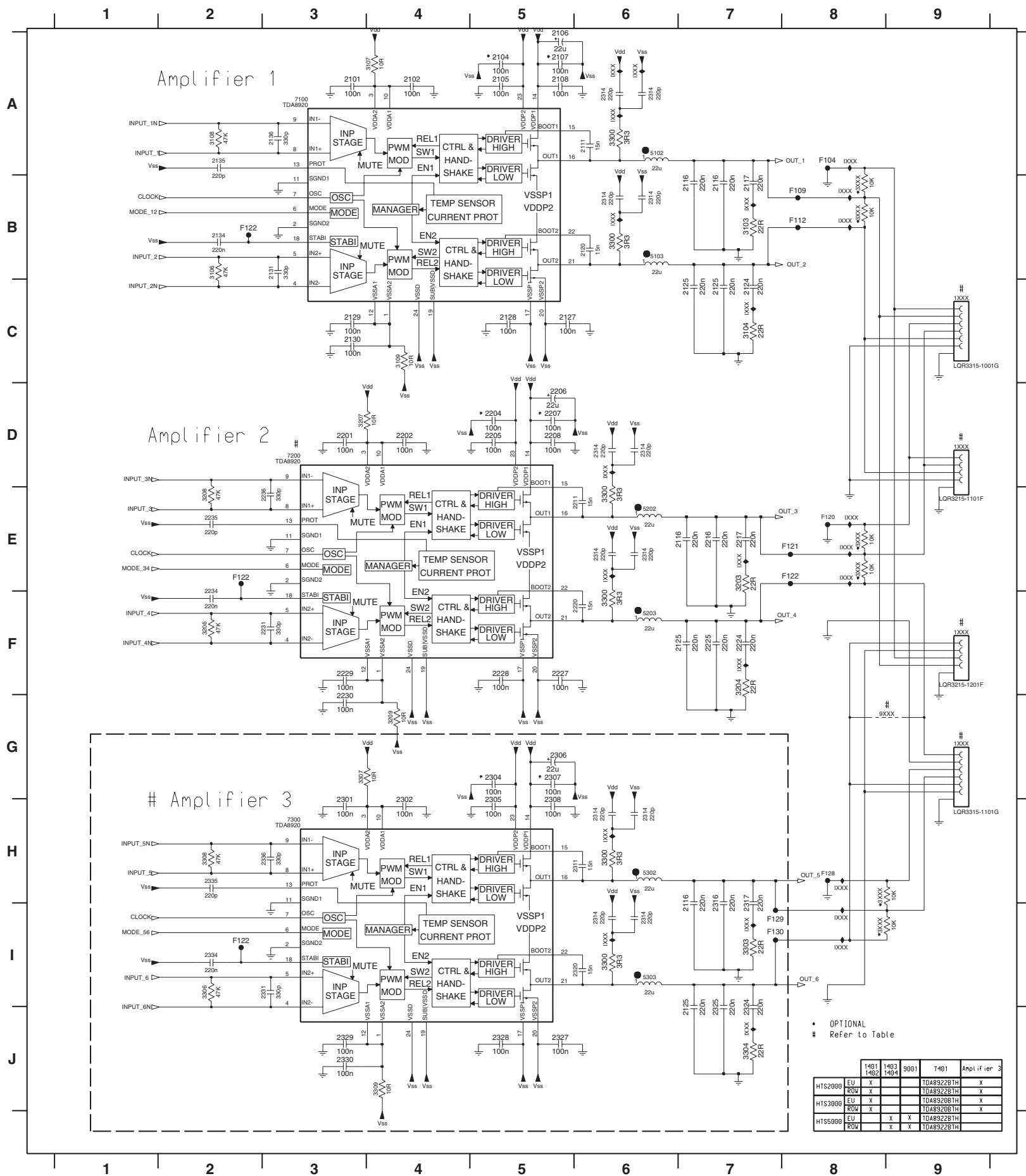


- 1300 B9
- 1301 D9
- 1302 G2
- 1305 D9
- 2301 B8
- 2302 B10
- 2303 B8
- 2304 B12
- 2305 C6
- 2306 C12
- 2308 D8
- 2309 D10
- 2310 G4
- 2311 G4
- 2312 G5
- 2315 H4
- 2316 H5
- 2319 H11
- 2320 H3
- 2321 D5
- 2322 E5
- 2323 G12
- 2324 G12
- 2325 H4
- 2326 E10
- 2331 A4
- 2332 A4
- 2333 B4
- 2334 B4
- 2335 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
- 7301 C13
- 7303 G4
- 7304 G3
- 7305 G4
- 7306 G3
- 7308 G10
- 7300 B4
- 7301 D5
- 7302 D4
- 7303 E5
- 7304 E4
- 7305 G3
- 7306 G2
- 7307 G2
- 7308 G3
- 7309 G3
- 7310 G3
- 7311 C7
- 7312 G12
- 7313 E10
- 7314 E8

		3309	4305	4308	4304	3308	3332	Mode 56
HTS2000	EU	X	X	X	X	X	X	X
	ROW	X	X	X		X	X	X
HTS3000	EU	X	X	X	X	X	X	X
	ROW	X	X	X		X	X	X
HTS5000	EU				X			
	ROW				X			

* OPTIONAL
Refer to Table

Mono Board: Circuit Diagram (Part 4)

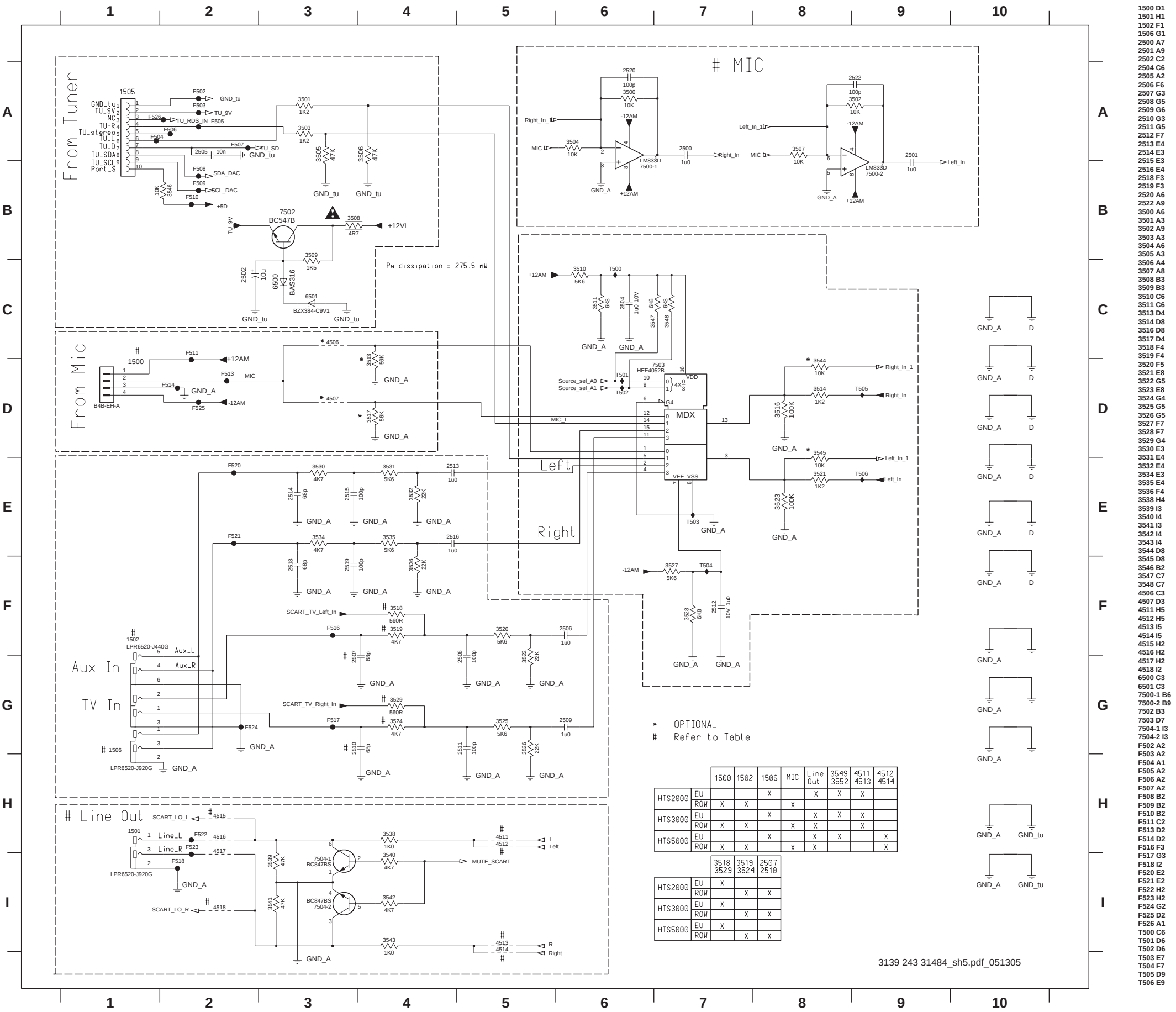


1401 G9	F405 E8
1402 C9	F406 E8
1403 F9	F407 E8
1404 D9	F409 H8
2314 H6	F410 I7
2400 A5	F411 I7
2401 A5	F415 B2
2402 A5	F416 E2
2403 A3	F417 I2
2404 A4	T400 A8
2405 A5	T401 B8
2406 A5	T402 B8
2407 A3	T403 E8
2408 A6	T404 E8
2409 A6	T405 E8
2411 A2	T406 H8
2412 A6	T407 I8
2413 B7	T408 I8
2414 B7	T409 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	

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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)



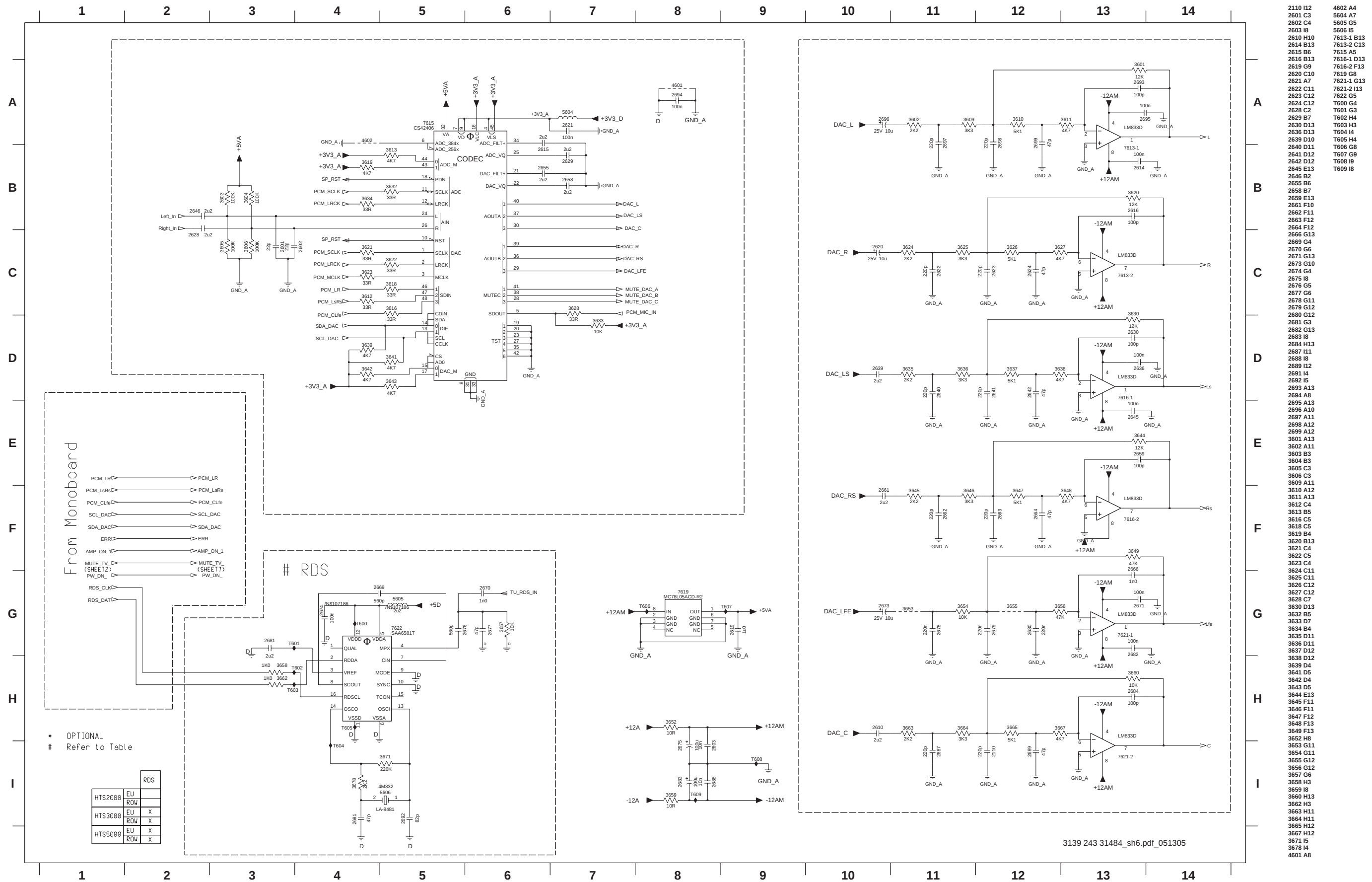
- 1500 D1
- 1501 H1
- 1502 F1
- 1506 G1
- 2500 A7
- 2501 A9
- 2502 C2
- 2504 C6
- 2505 A2
- 2506 F6
- 2507 G3
- 2508 G5
- 2509 G6
- 2510 G3
- 2511 G5
- 2512 F7
- 2513 E4
- 2514 E3
- 2515 E3
- 2516 E4
- 2518 F3
- 2519 F3
- 2520 A6
- 2522 A9
- 3500 A6
- 3501 A3
- 3502 A9
- 3503 A3
- 3504 A6
- 3505 A3
- 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
- F513 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

* OPTIONAL
Refer to Table

	1500	1502	1506	MIC	Line Out	3549 3552	4511 4513	4512 4514
HTS2000	EU	ROW	X	X	X	X	X	
HTS3000	EU	ROW	X	X	X	X	X	
HTS5000	EU	ROW	X	X	X	X	X	X

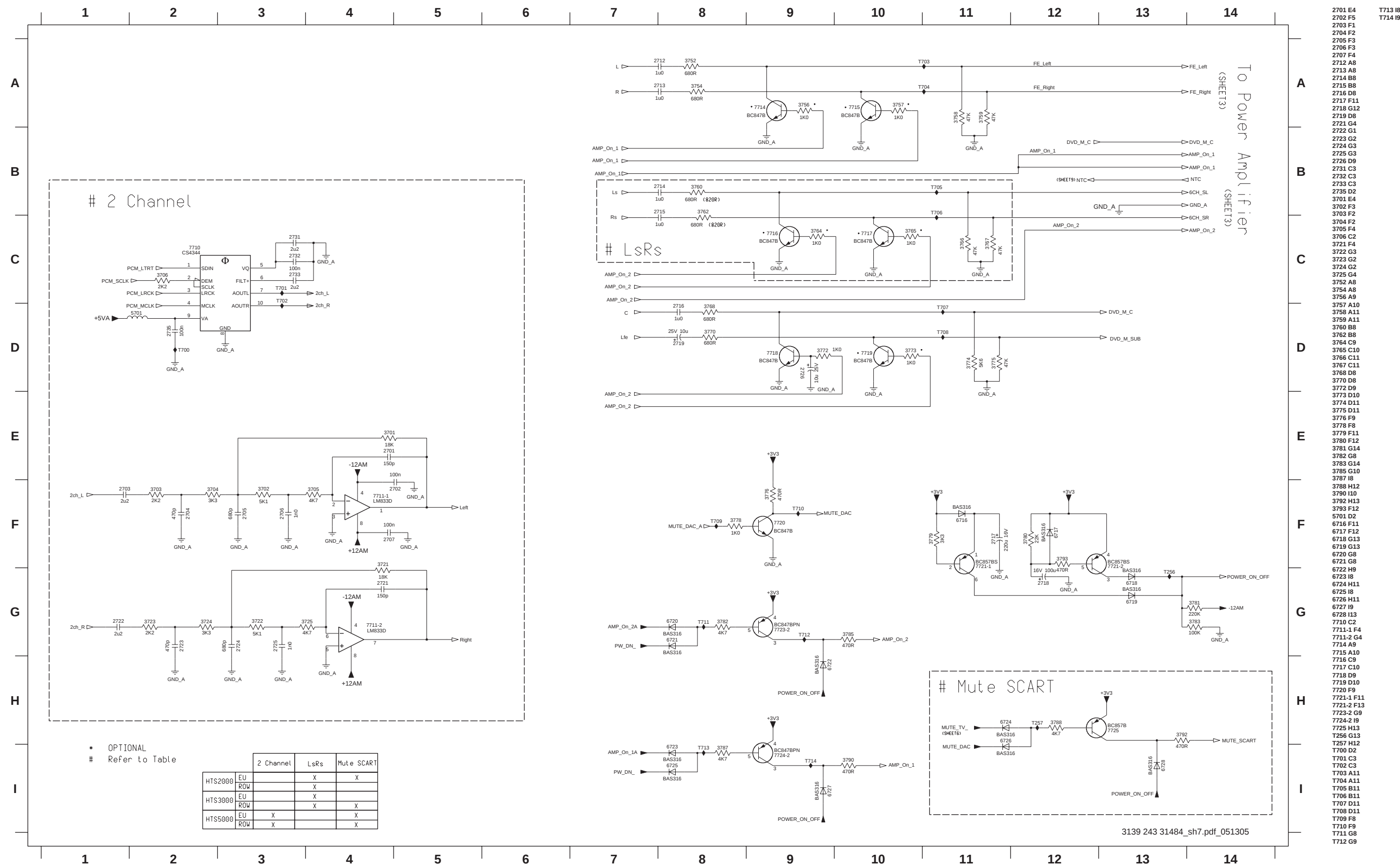
	3518 3523	3519 3524	2507 2510
HTS2000	EU	ROW	X
HTS3000	EU	ROW	X
HTS5000	EU	ROW	X

Mono Board: Circuit Diagram (Part 6)

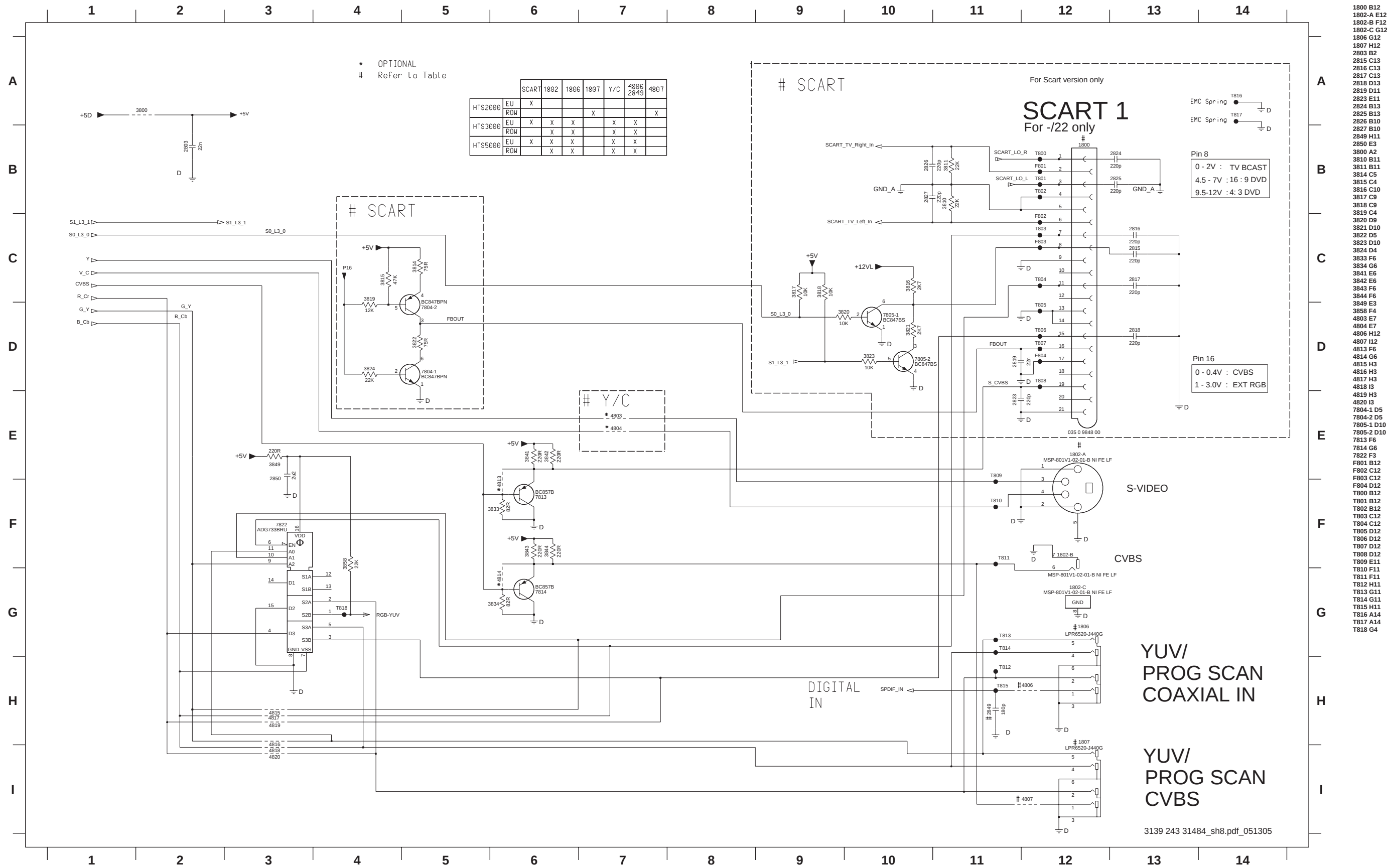


- 2110 I12
- 2601 C3
- 2602 C4
- 2603 I8
- 2610 H10
- 2614 B13
- 2615 B6
- 2616 B13
- 2619 G9
- 2620 C10
- 2621 A7
- 2622 C11
- 2623 C12
- 2624 C12
- 2628 C2
- 2629 B7
- 2630 D13
- 2636 D13
- 2639 D10
- 2640 D11
- 2641 D12
- 2642 D12
- 2645 E13
- 2646 B2
- 2655 B6
- 2658 B7
- 2659 E13
- 2661 F10
- 2662 F11
- 2663 F12
- 2664 F12
- 2666 G13
- 2669 G4
- 2670 G6
- 2671 C13
- 2673 G10
- 2674 G4
- 2675 I8
- 2676 G5
- 2677 G6
- 2678 G11
- 2679 G12
- 2680 G12
- 2681 G3
- 2682 G13
- 2683 I8
- 2684 H13
- 2687 I11
- 2688 I8
- 2689 I12
- 2691 I4
- 2692 I5
- 2693 A13
- 2694 A8
- 2695 A13
- 2696 A10
- 2697 A11
- 2698 A12
- 2699 A12
- 3601 A13
- 3602 A11
- 3603 B3
- 3604 B3
- 3605 C3
- 3606 C3
- 3609 A11
- 3610 A12
- 3611 A13
- 3612 C4
- 3613 B5
- 3616 C5
- 3618 C5
- 3619 B4
- 3620 B13
- 3621 C4
- 3622 C5
- 3623 C4
- 3624 C11
- 3625 C11
- 3626 C12
- 3627 C12
- 3628 C7
- 3630 D13
- 3632 B5
- 3633 D7
- 3634 B4
- 3635 D11
- 3636 D11
- 3637 D12
- 3638 D12
- 3639 D4
- 3641 D5
- 3642 D4
- 3643 D5
- 3644 E13
- 3645 F11
- 3646 F11
- 3647 F12
- 3648 F13
- 3649 F13
- 3652 H8
- 3653 C11
- 3654 G11
- 3655 G12
- 3656 G12
- 3657 G6
- 3658 H3
- 3659 I8
- 3660 H13
- 3662 H3
- 3663 H11
- 3664 H11
- 3665 H12
- 3667 H12
- 3671 I5
- 3678 I4
- 4601 A8
- 4602 A4
- 5604 A7
- 5605 G5
- 5606 I5
- 7613-1 B13
- 7613-2 C13
- 7615 A5
- 7616-1 D13
- 7616-2 F13
- 7619 G8
- 7621-1 G13
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- 8000 G5

Mono Board: Circuit Diagram (Part 7)

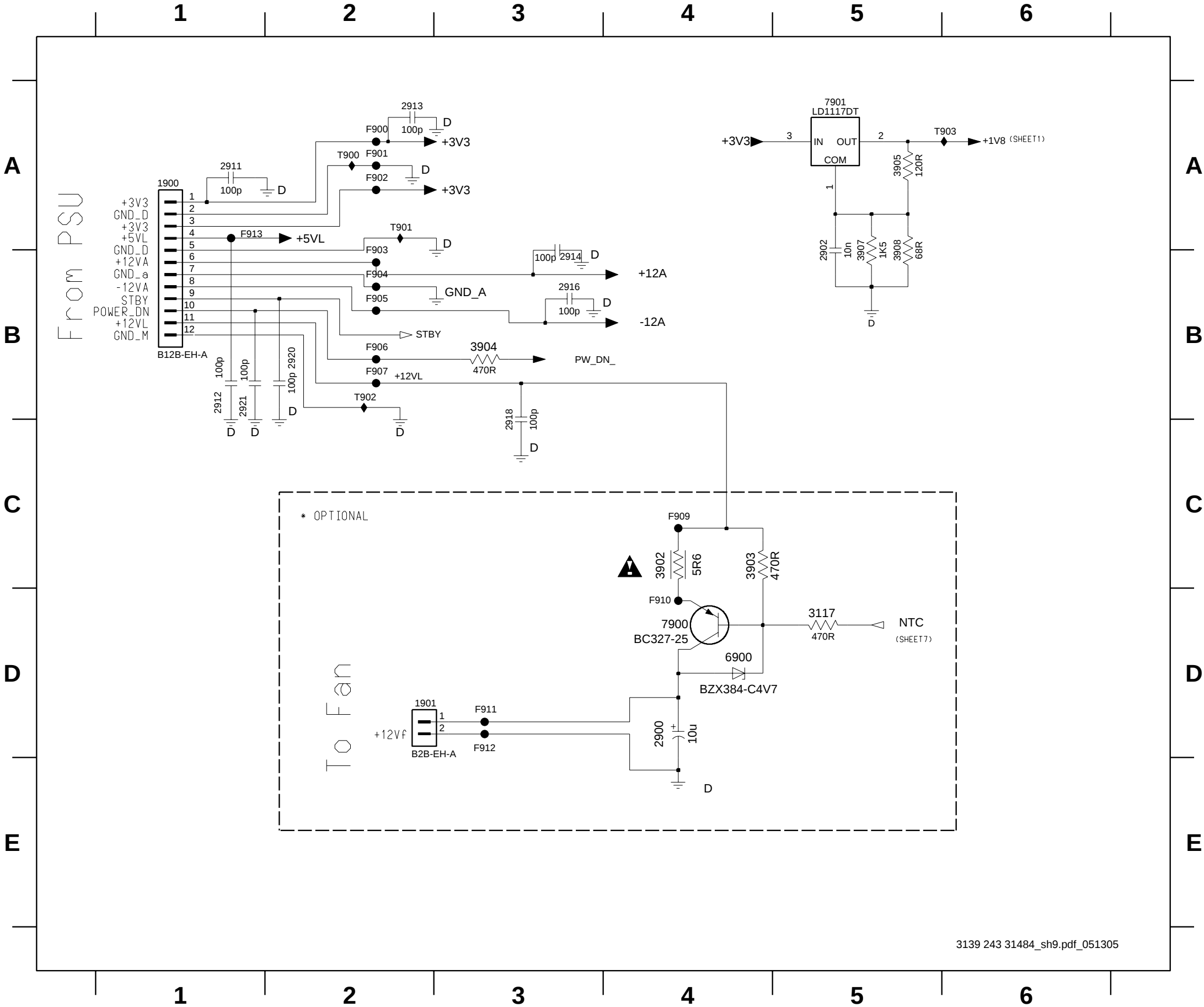


Mono Board: Circuit Diagram (Part 8)

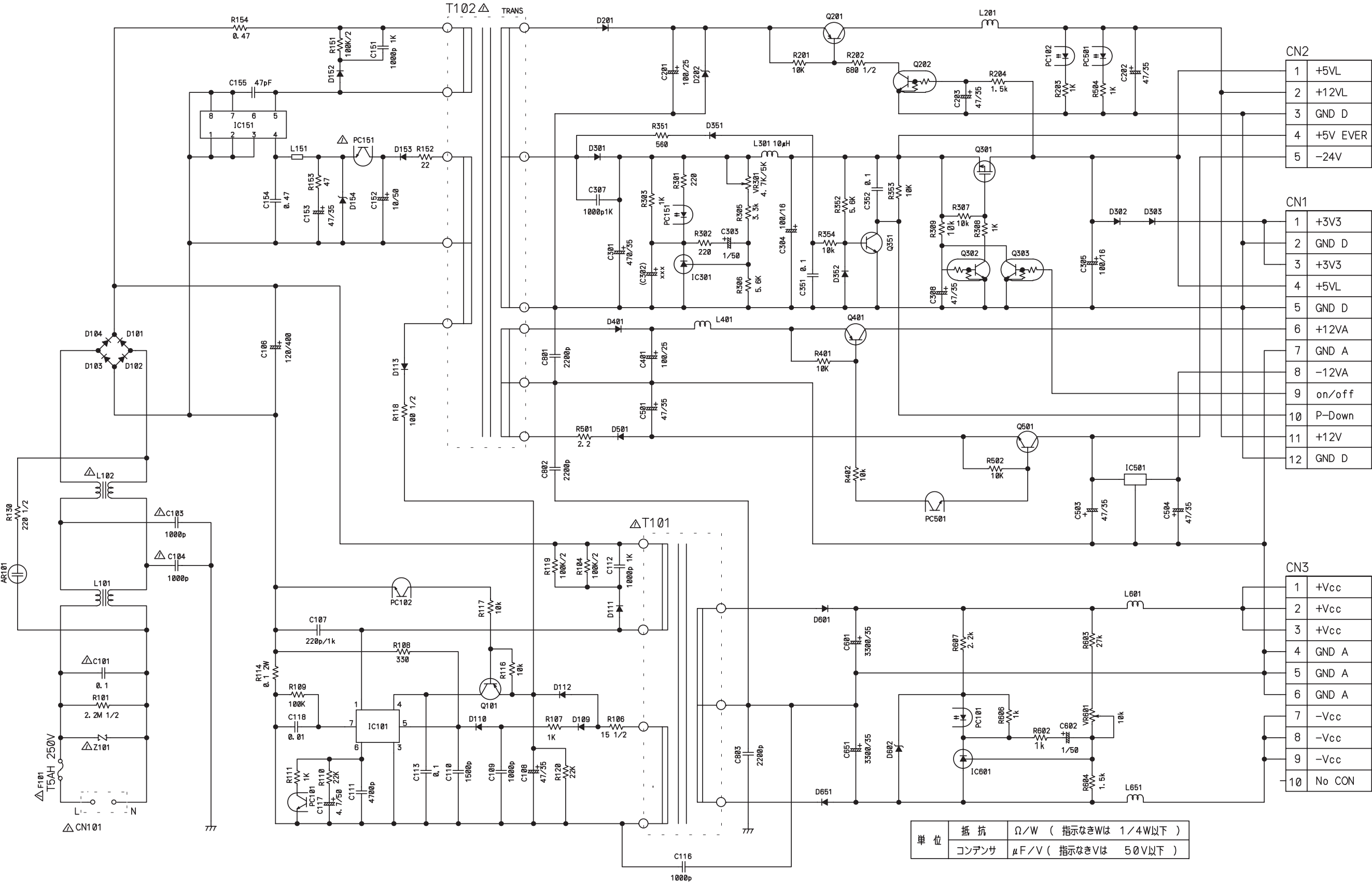


- 1800 B12
- 1802-A E12
- 1802-B F12
- 1802-C G12
- 1806 G12
- 1807 H12
- 2803 B2
- 2815 C13
- 2816 C13
- 2817 C13
- 2818 D13
- 2819 D11
- 2823 E11
- 2824 B13
- 2825 B13
- 2826 B10
- 2827 B10
- 2849 H11
- 2850 E3
- 3800 A2
- 3810 B11
- 3811 B11
- 3814 C5
- 3815 C4
- 3816 C10
- 3817 C9
- 3818 C9
- 3819 C4
- 3820 D9
- 3821 D10
- 3822 D5
- 3823 D10
- 3824 D4
- 3833 F6
- 3834 G6
- 3841 E6
- 3842 E6
- 3843 F6
- 3844 F6
- 3849 E3
- 3858 F4
- 4803 E7
- 4804 E7
- 4806 H12
- 4807 I12
- 4813 F6
- 4814 G6
- 4815 H3
- 4816 H3
- 4817 H3
- 4818 I3
- 4819 H3
- 4820 I3
- 7804-1 D5
- 7804-2 D5
- 7805-1 D10
- 7805-2 D10
- 7813 F6
- 7814 G6
- 7822 F3
- F801 B12
- F802 C12
- F803 C12
- F804 D12
- T800 B12
- T801 B12
- T802 B12
- T803 C12
- T804 C12
- T805 D12
- T806 D12
- T807 D12
- T808 D12
- T809 E11
- T810 F11
- T811 F11
- T812 H11
- T813 G11
- T814 G11
- T815 H11
- T816 A14
- T817 A14
- T818 G4

Mono Board: Circuit Diagram (Part 9)



PSU Circuit Diagram (For information only)



() : no stuff

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	△ MAINSCORD 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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