

Service
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Service Manual



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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 ± 25kHz
Aerial input	: 75Ω coaxial
Sensitivity at 26dB S/N	: < 7μV
Selectivity at 600kHz bandwidth	: > 25dB
IF rejection	: > 60dB
Image rejection	: > 25dB
Distortion at RF=1mV, dev. 75kHz	: < 3%
-3dB Limiting point	: 8μV
Crosstalk at RF=1mV, dev. 67.5kHz	: > 28dB
Crosstalk at RF=1mV, dev. 40kHz	: > 18dB

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 ± 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 ±0.5dB	: 20Hz-20kHz
Hum (Volume Minimum)	: 200nW
Residual noise (Volume Minimum)	: 40nW
Input sensitivity	
Aux In	: 1V ± 3dB at 22kΩ
Scart In	: 1V ± 3dB at 22kΩ
Output sensitivity	
Line Out (Left/Right)	: 1V ± 2dB at 10kΩ
Scart Out (Left/Right)	: 1V ± 2dB at 10kΩ

1.4 COMPACT DISC/VCD/DVD:

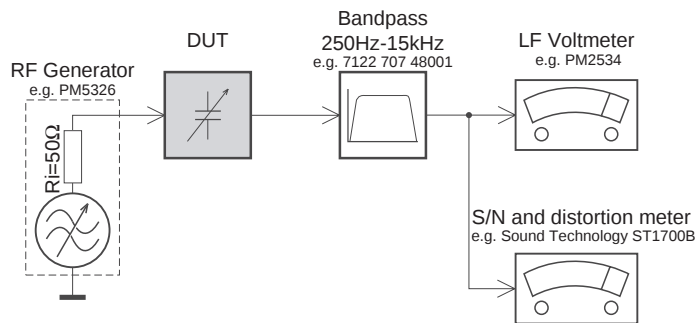
Video Decoding	: MPEG-1/MPEG-2/ MPEG-4/DivX 3.11, 4.x & 5.x
Video DAC	: 12 Bits
Signal System	: PAL / NTSC
Video Format	: 4:3 / 16:9
CVBS Out ¹⁾	
CVBS level	: 1.0 ± 0.1V _{p-p}
Luminance S/N	: >= 60dB
S-Video Out ¹⁾	
Y level	: 1.0 ± 0.1V _{p-p}
Y S/N	: >= 60dB
C level (burst)	: 286mV _{pp} +1/-4 dB
RGB/YUV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

¹⁾ Output terminals to be terminated with 75Ω

2.Measurements Setup, Service Aid & Lead Free Requirements

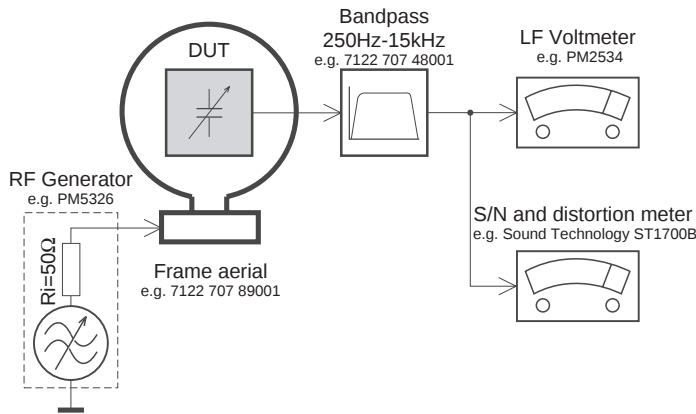
MEASUREMENT SETUP

Tuner FM



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

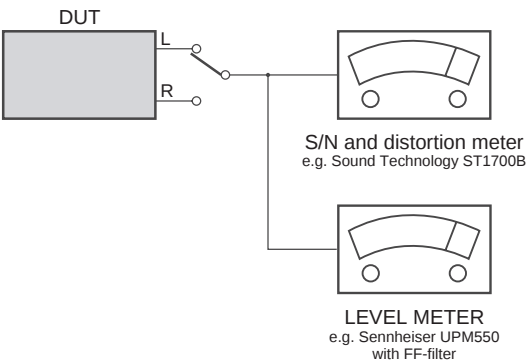
Tuner AM (MW,LW)



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

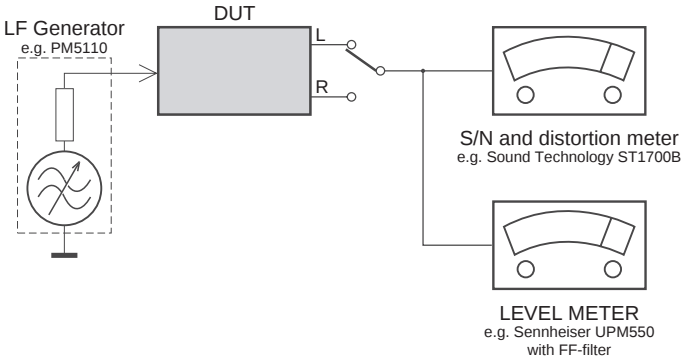
CD

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



Recorder

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



SERVICE AIDS

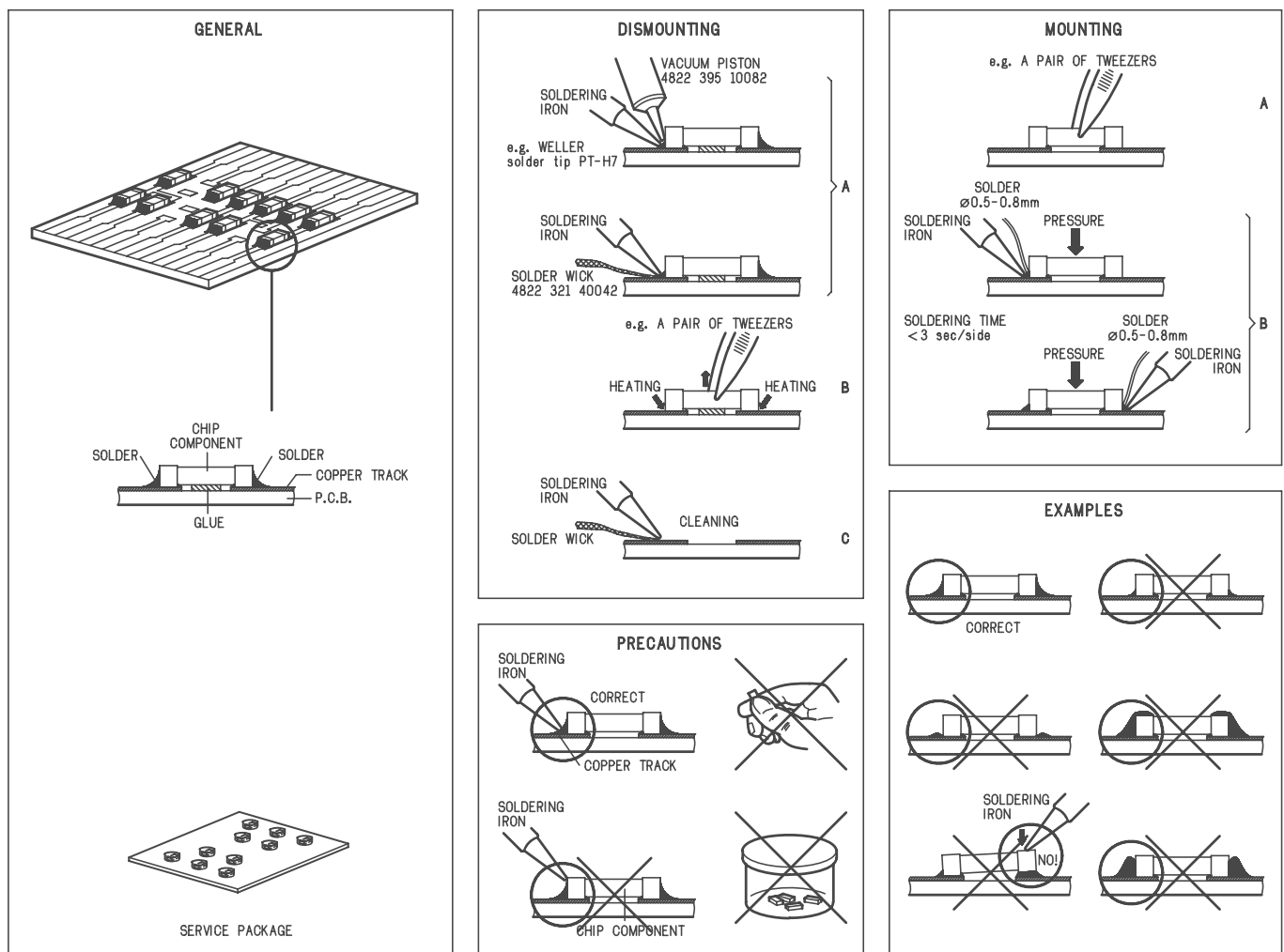
Service Tools:

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

Compact Disc:

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

HANDLING CHIP COMPONENTS



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). Unvorsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren.
Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

I

AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB

ESD PROTECTION EQUIPMENT:

Complete Kit ESD3 (small tablemat, wristband, connection box, extention cable and earth cable) 4822 310 10671
Wristband tester 4822 344 13999

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used
Safety components are marked by the symbol

NL

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.
De Veiligheidsonderdelen zijn aangeduid met het symbool

F

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

D

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

I

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

GB

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



GB

Warning !

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

S

Varning !

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

SF

Varoitus !

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

DK

Advarse !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå 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. Dismantling Instructions

3.1 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 3-1

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

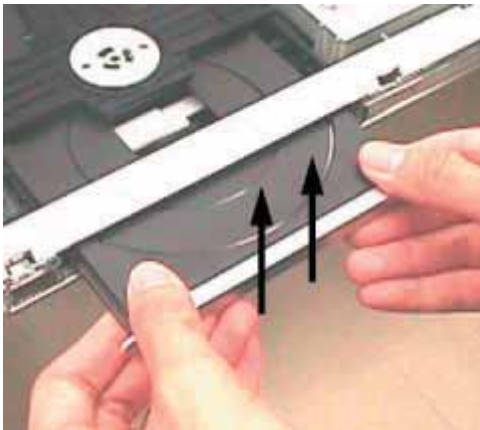


Figure 3-2

- 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.

3.2 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.

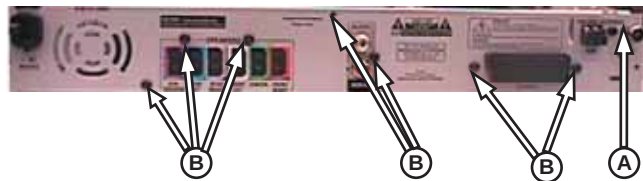


Figure 3-3

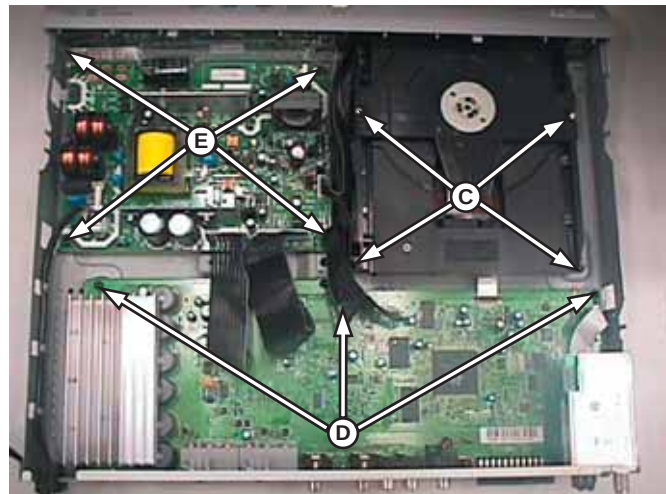
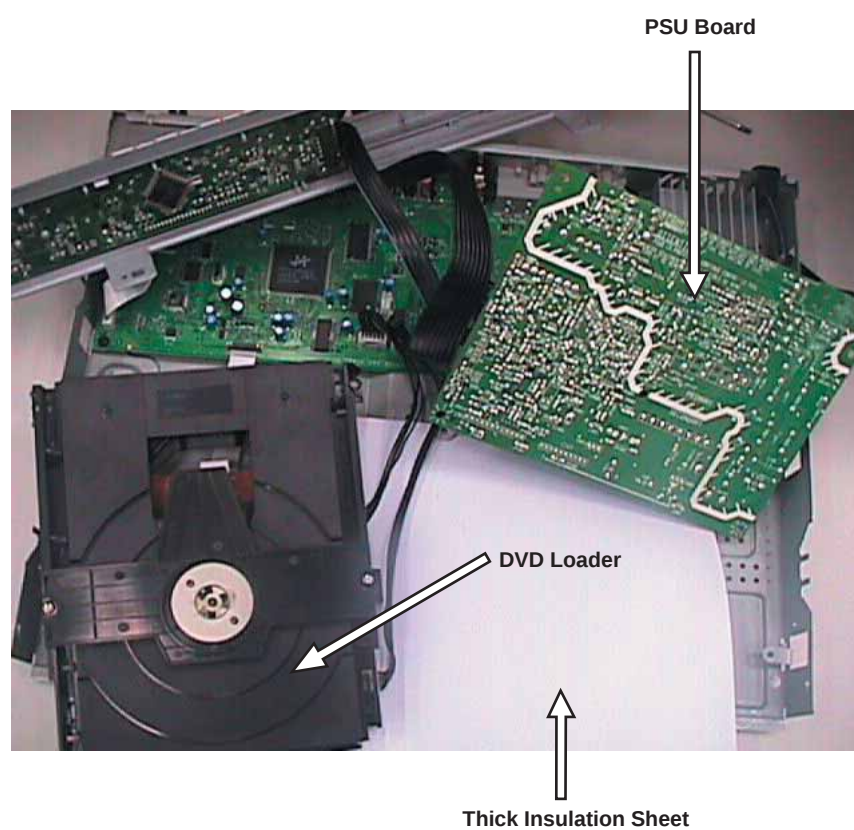
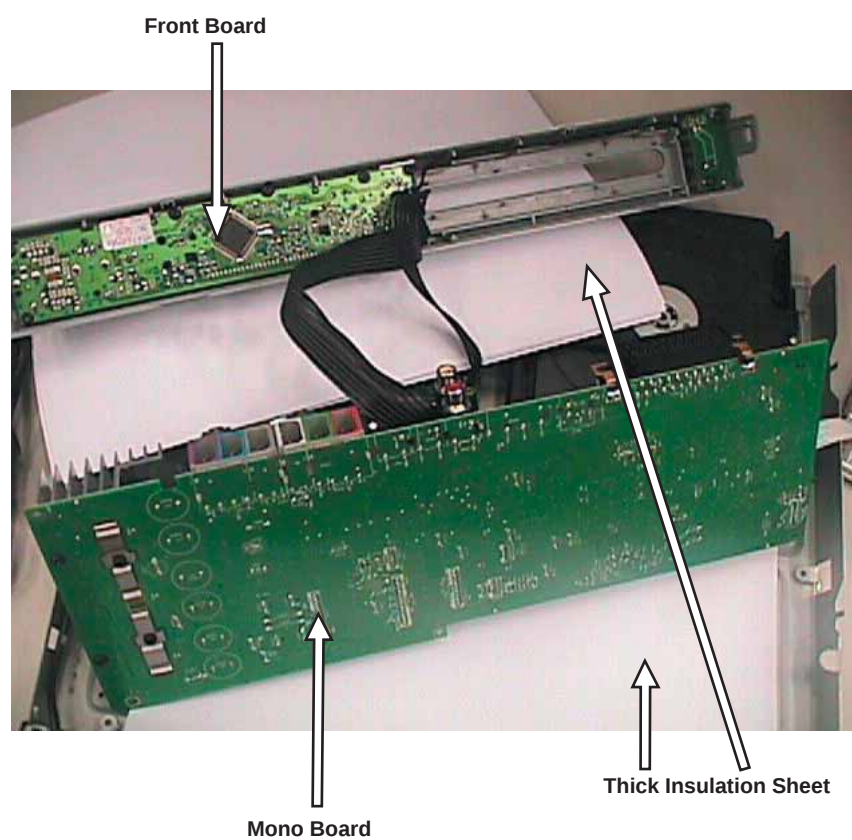


Figure 3-4

3.3 Service Positions



4. 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)

4.1 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



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	

4.1.1 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 3300/05	UK, Ireland	2	PAL
HTS 3300/12	Europe	2	PAL
HTS 3300/51	Russia	5	PAL
HTS 3300/55	Latam	4	NTSL
HTS 3300/93	China	6	PAL
HTS 3300/98	Asia Pacific	3	PAL

To reprogram do as follows:

- 1) Power up the set and select DISC source.
- 2) Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
- 3) Press the following buttons on the Remote Control:

<9> <9> <9> <9> <SVBT> <8> for HTS 3300/12
 <9> <9> <9> <9> <SVBT> <9>for HTS 3300/51
 <9> <9> <9> <9> <AUDIO> <0>for HTS 3300/05
 <9> <9> <9> <9> <AUDIO> <1>for HTS 3300/98
 <9> <9> <9> <9> <AUDIO> <3>for HTS 3300/93
 <9> <9> <9> <9> <AUDIO> <4>for HTS 3300/55

- 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.)

4.1.2 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:

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

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

4.1.3 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.

4.1.4 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.

4.1.5 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.

4.1.6 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.

4.1.7 Procedure to change Tuner Grid (not for all versions)

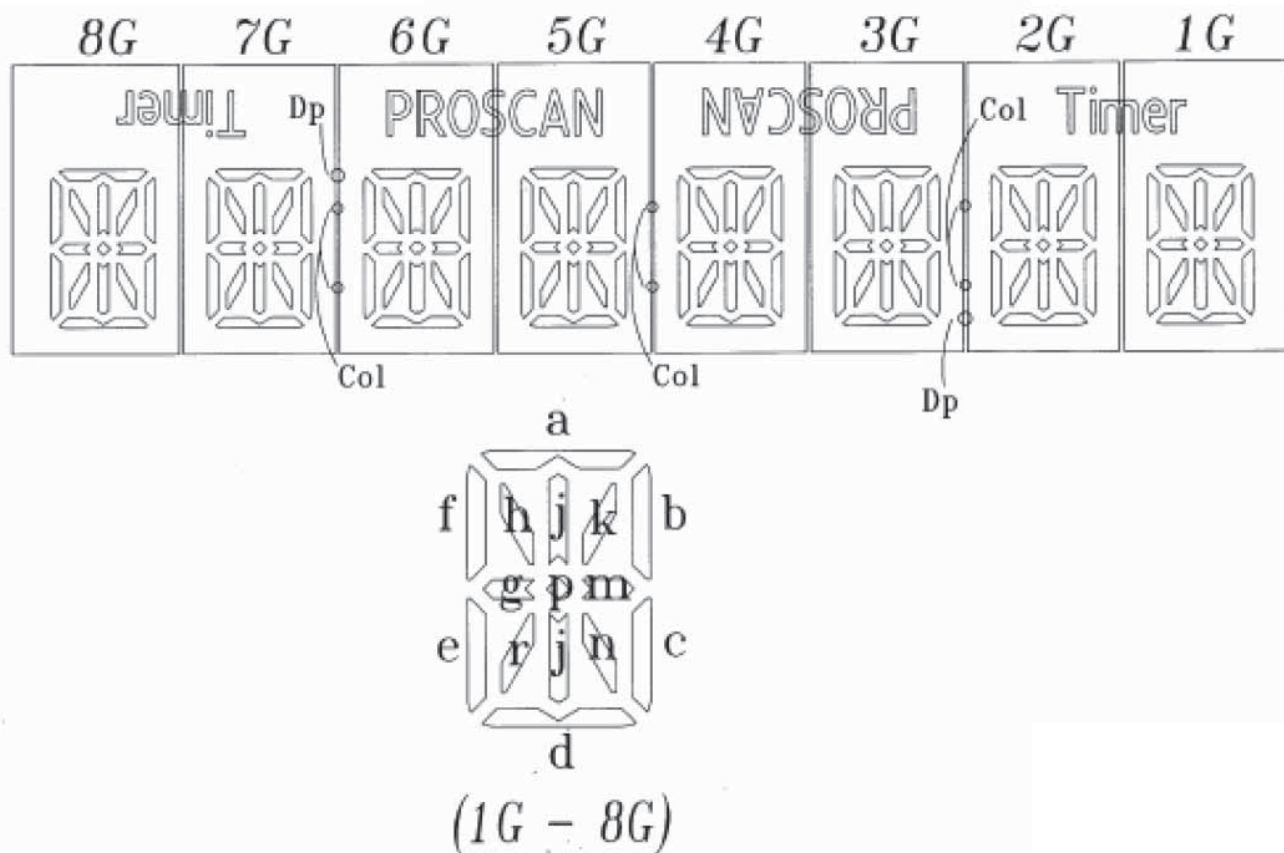
- ① Press **SOURCE** to select "FI" or "FM".
- ② Press **STANDBY ON** to switch the DVD system to standby mode.
- ③ Press **STANDBY ON** again to turn on the DVD system and hold down  button on the front panel.
 → The display will show "GRID 9" or "GRID 10".

Helpful Hint:

– GRID 9 and GRID 10 indicate that the tuning grid is in step of 9 kHz and 10 kHz respectively.

Note: Repeating the same action will toggle back to its previous tuning grid setting.

5. FTD Display Pin Connection



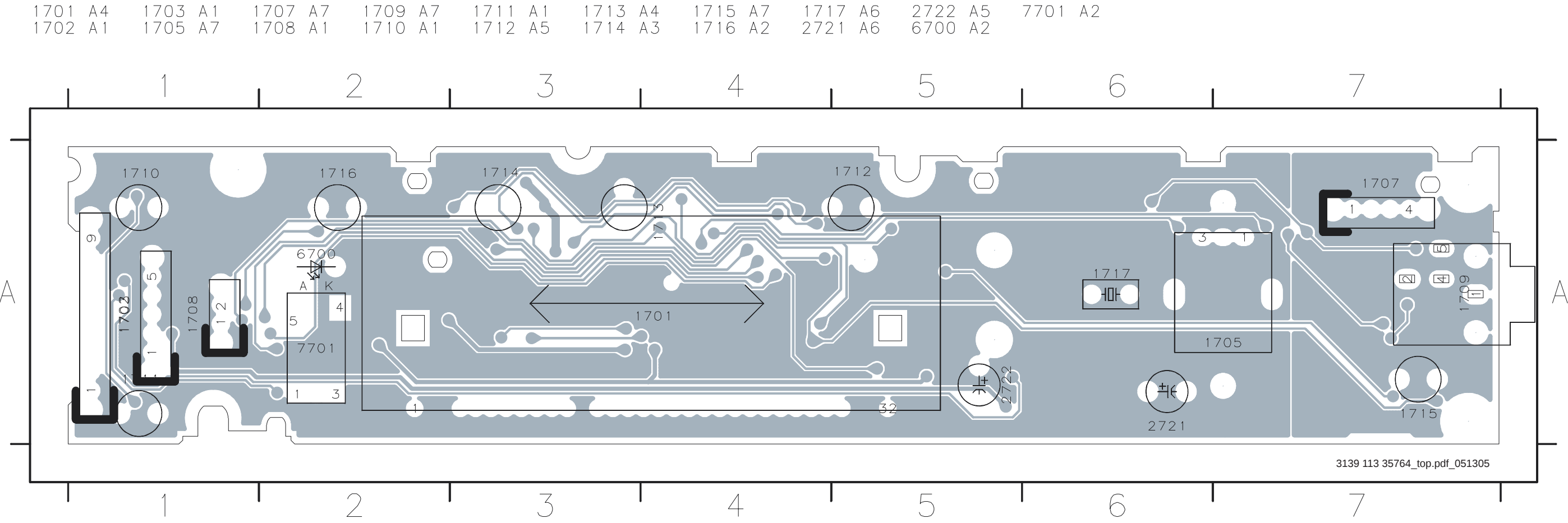
	8G	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	a	a	a	a
P2	j	j	j	j	j	j	j	j
P3	h	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d	d
P14	col		col		col			
P15	p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

HTS 3500 block diagram.pdf_051305

HTS 3500-3300 wiring diagram.pdf_051305

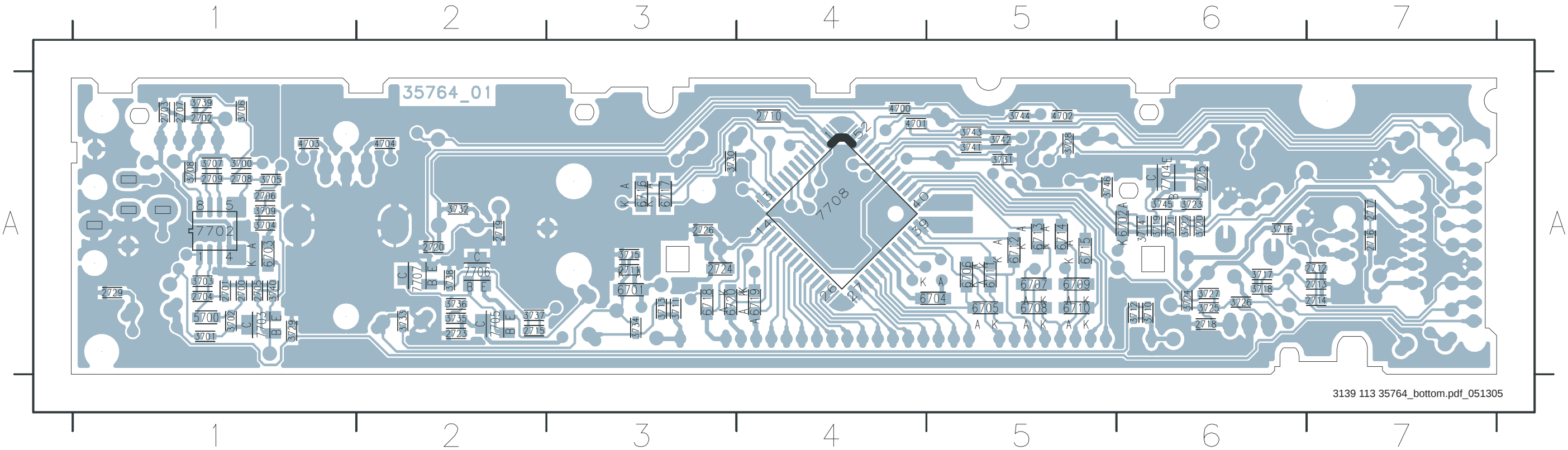
1701 B12	6720 I9
1702 F2	7701 H2
1703 E2	7702-1 B5
1705 G4	7702-2 B6
1707 D2	7703 C4
1708 G8	7704 E5
1709 B2	7705 I12
1710 H6	7706 I12
1711 H7	7707 I13
1712 H7	7708 E10
1713 H8	7701 E2
1714 G6	7702 E2
1715 G7	7703 E2
1716 G7	7704 E2
1717 G9	7705 E2
2700 B3	7706 F3
2701 B4	7707 F3
2702 B5	7708 F3
2703 B5	7709 F3
2704 B5	7710 F3
2705 C4	7711 F3
2706 C5	7712 F3
2707 C6	7713 G3
2708 B6	7714 G3
2709 C6	7715 D10
2710 E8	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 E11	7731 D11
2725 E5	7732 F10
2726 D11	7733 G9
3700 C2	7734 C4
3701 C2	7735 D2
3702 B3	
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 E5	
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 I13	
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	
7100 G12	
7111 G13	
7112 G13	
7113 G13	
7114 G13	
7115 G13	
7116 G6	
7117 G7	
7118 H9	
7119 H9	

Front: Display (topview)

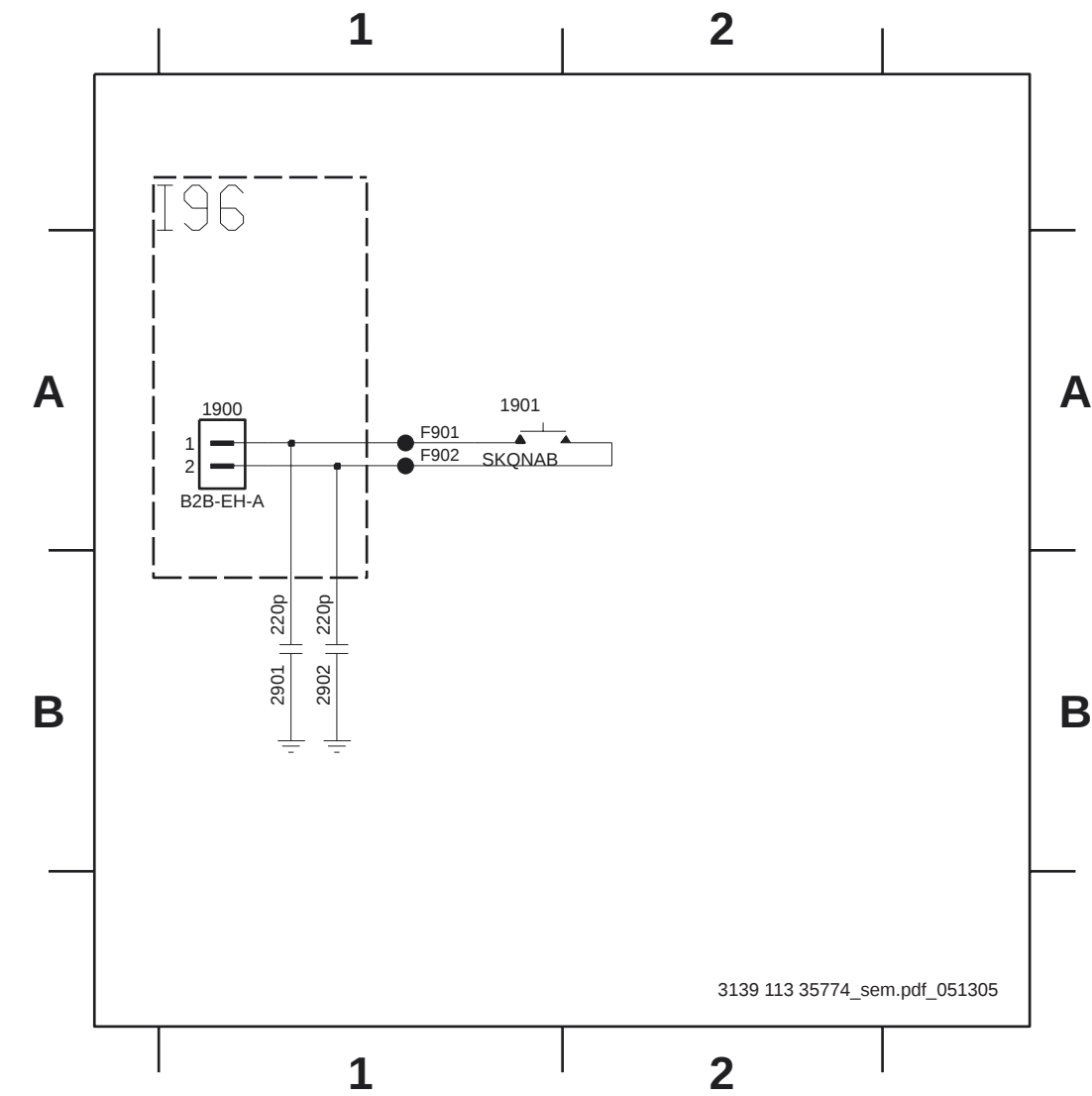


Front: Display (Bottom view)

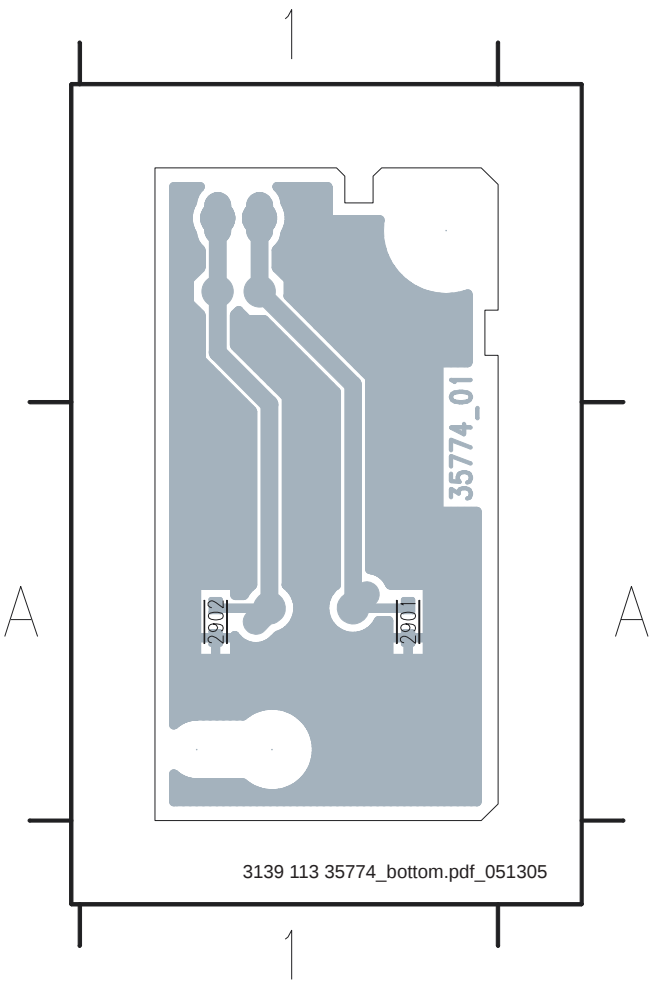
2700	A1	2708	A1	2716	A7	2726	A3	3706	A1	3714	A6	3722	A6	3730	A3	3738	A2	3746	A5	6702	A6	6710	A5	6718	A3	7707	A2
2701	A1	2709	A1	2717	A7	2729	A1	3707	A1	3715	A3	3723	A6	3731	A5	3739	A1	4700	A4	6703	A1	6711	A5	6719	A4	7708	A4
2702	A1	2710	A4	2718	A6	3700	A1	3708	A1	3716	A6	3724	A6	3732	A2	3740	A1	4701	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		



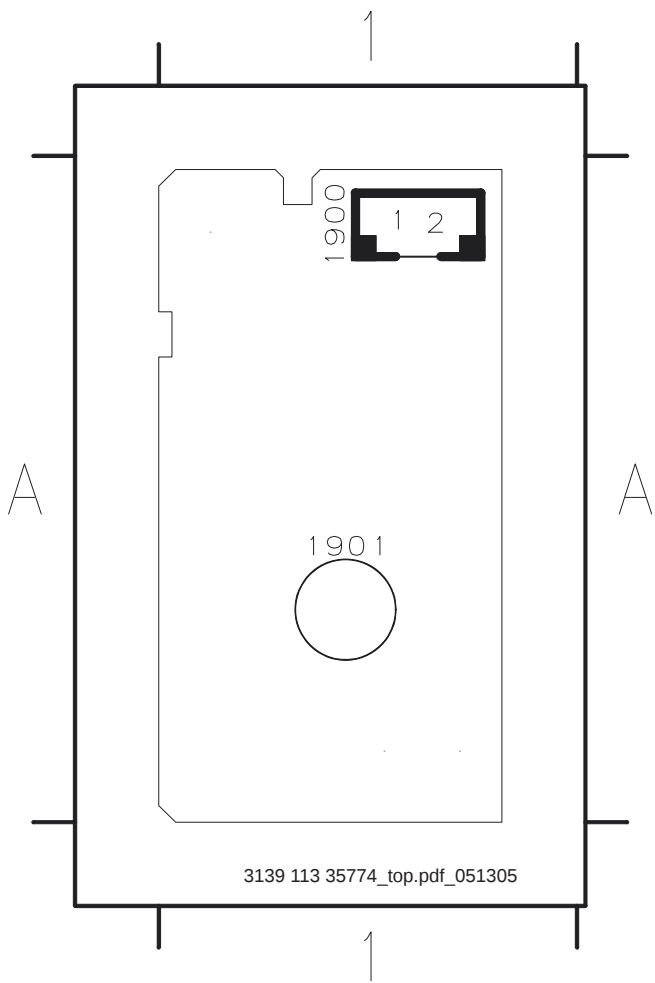
Front: Standby



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

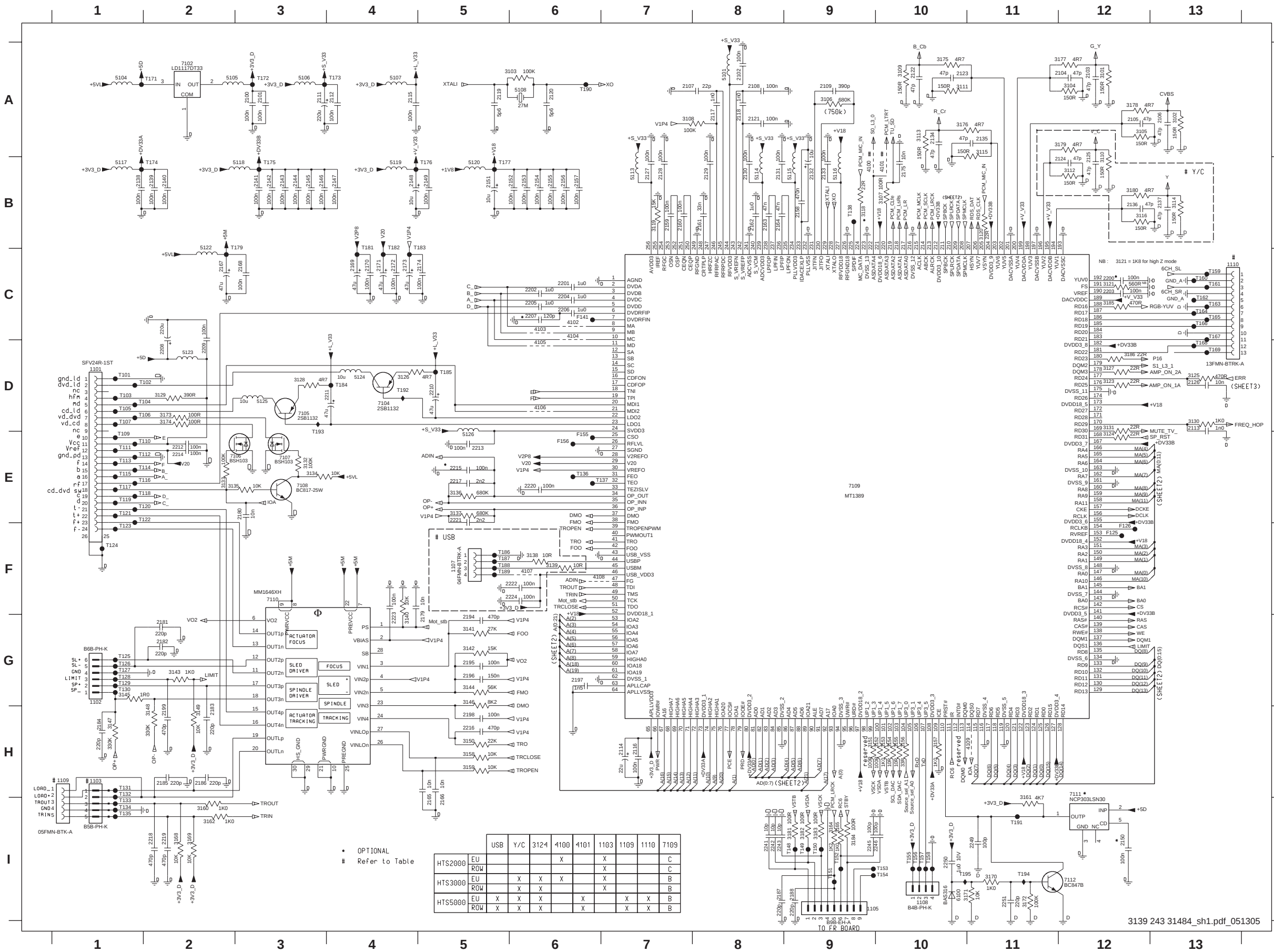


2901 A1
2902 A1



1900 A1
1901 A1

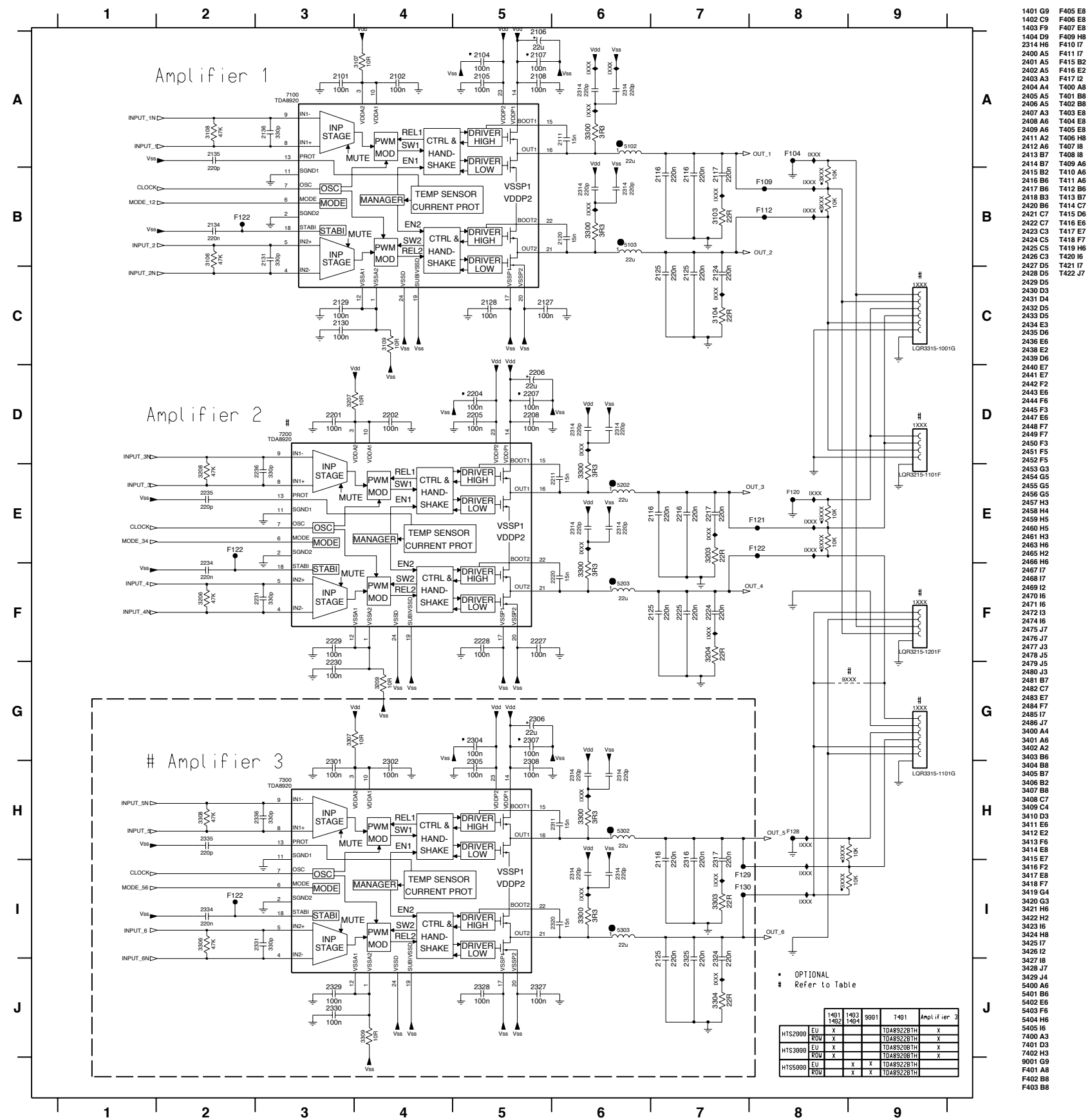
Mono Board: Circuit Diagram (Part 1)



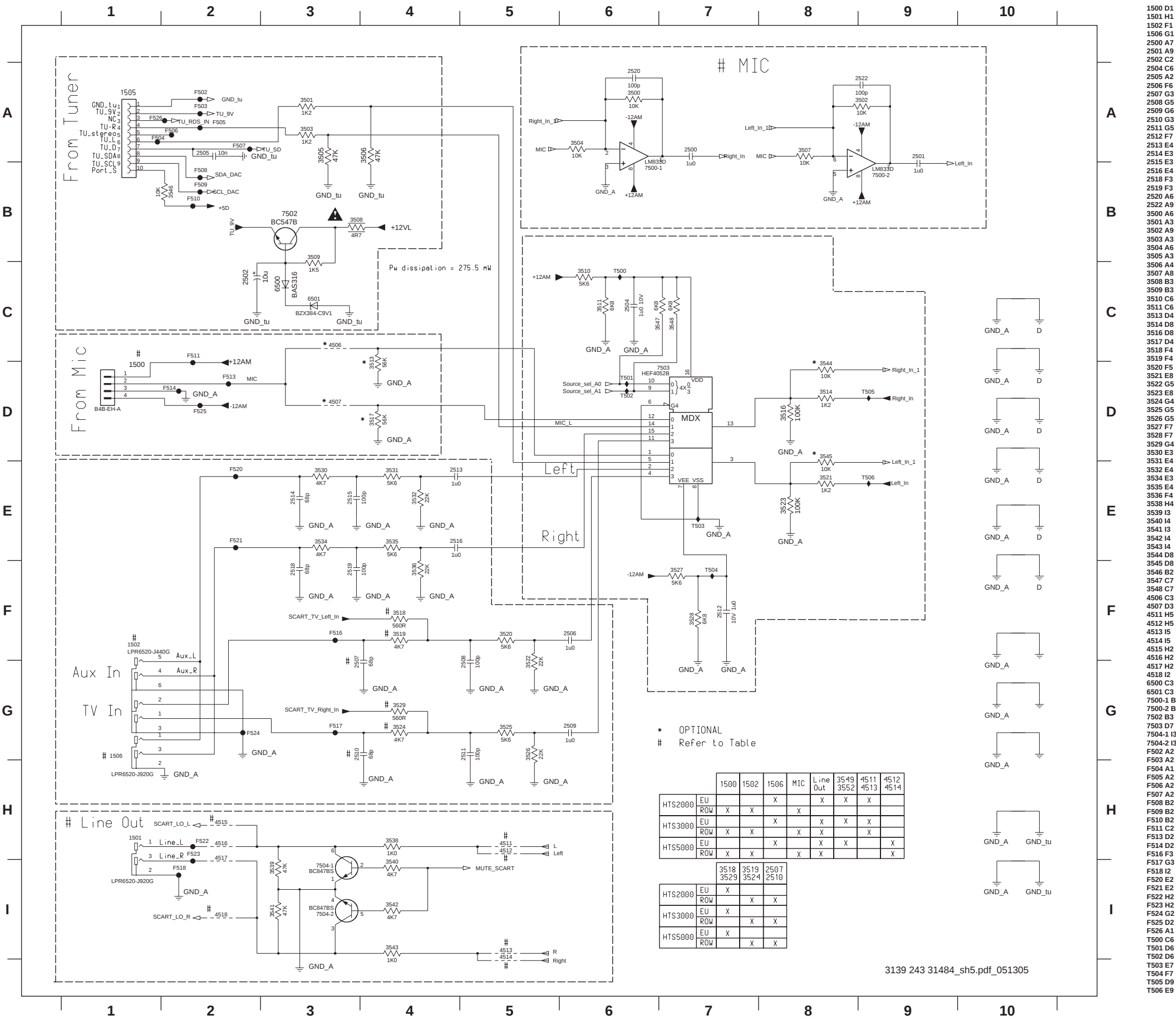
2252 A4
2253 C4
2254 C4
2255 C4
2256 C4
2258 C4
2259 D10
2260 D11
2262 D10
2263 D11
2264 D7
2265 D7
2266 F4
2267 F4
2268 F4
2269 F6
2270 F10
2271 F11
2272 H7
2273 H7
2274 A10
2275 F11
2276 F5
3200 A10
3201 A10
3202 A10
3203 B4
3204 B10
3209 B4
3210-1 C2
3210-2 D2
3213 C3 D2
3210-4 D2
3211-1 E2
3211-2 C2
3211-3 C2
3211-4 C2
3212-1 C2
3212-2 C2
3212-3 C2
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
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

1300 B9	7305 D5
1301 D9	7306 C10
1302 G2	7307 E5
1305 D9	7308 E9
2301 B8	7309 G12
2302 B10	7310 G12
2303 B8	F301 C13
2304 B12	F302 G4
2305 C6	F304 G3
2306 C12	F305 G4
2308 D8	F306 G3
2308 D10	F308 G10
2310 G4	T300 B4
2311 G4	T301 D5
2312 G5	T302 D4
2315 H4	T303 E5
2316 H5	T304 E4
2319 H11	T305 G3
2320 H3	T306 G2
2321 E5	T307 G2
2322 E5	T308 G3
2323 G12	T309 G3
2324 G12	T310 G3
2325 H4	T311 C7
2326 E10	T312 G12
2331 A4	T313 E10
2332 A4	T314 E8
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 G12	
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	

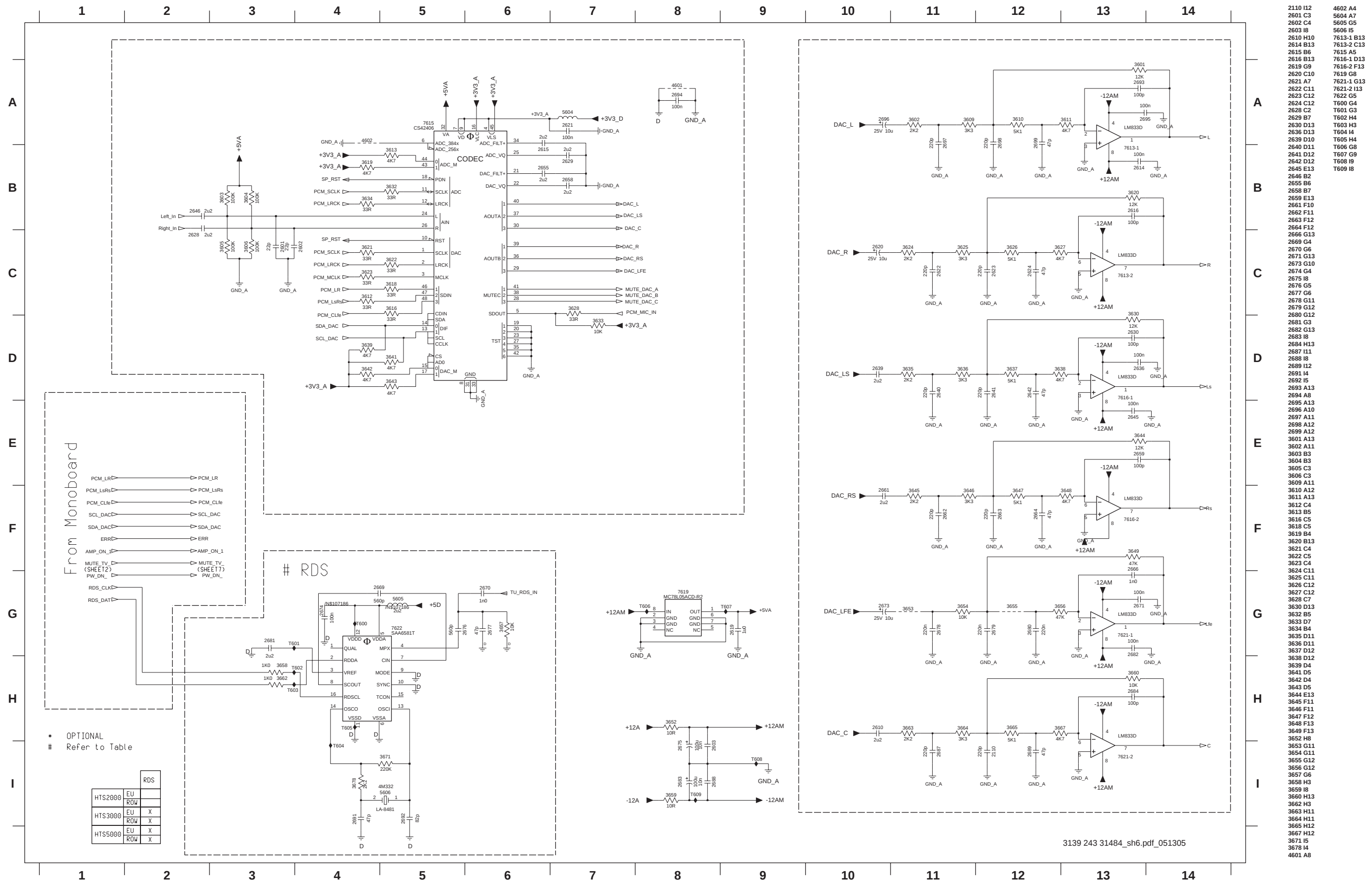
Mono Board: Circuit Diagram (Part 4)



Mono Board: Circuit Diagram (Part 5)



Mono Board: Circuit Diagram (Part 6)



2110 I12	4602 A4
2601 C3	5604 A7
2602 C4	5605 G5
2603 I8	5606 I5
2610 H10	7613-1 B13
2614 B13	7613-2 C13
2615 B6	7615 A5
2616 B13	7616-1 D13
2619 G9	7616-2 F13
2620 C10	7619 G8
2621 A7	7621-1 G13
2622 C11	7621-2 I13
2623 C12	7622 G5
2624 C12	T600 G4
2628 C2	T601 G3
2629 B7	T602 H4
2630 D13	T603 H3
2636 D13	T604 I4
2639 D10	T605 H4
2640 D11	T606 G8
2641 D12	T607 G9
2642 D12	T608 I9
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	

HTS5000 To Power Amplifier (SHEET3)

2 Channel

LsRs

Mute SCART

OPTIONAL
Refer to Table

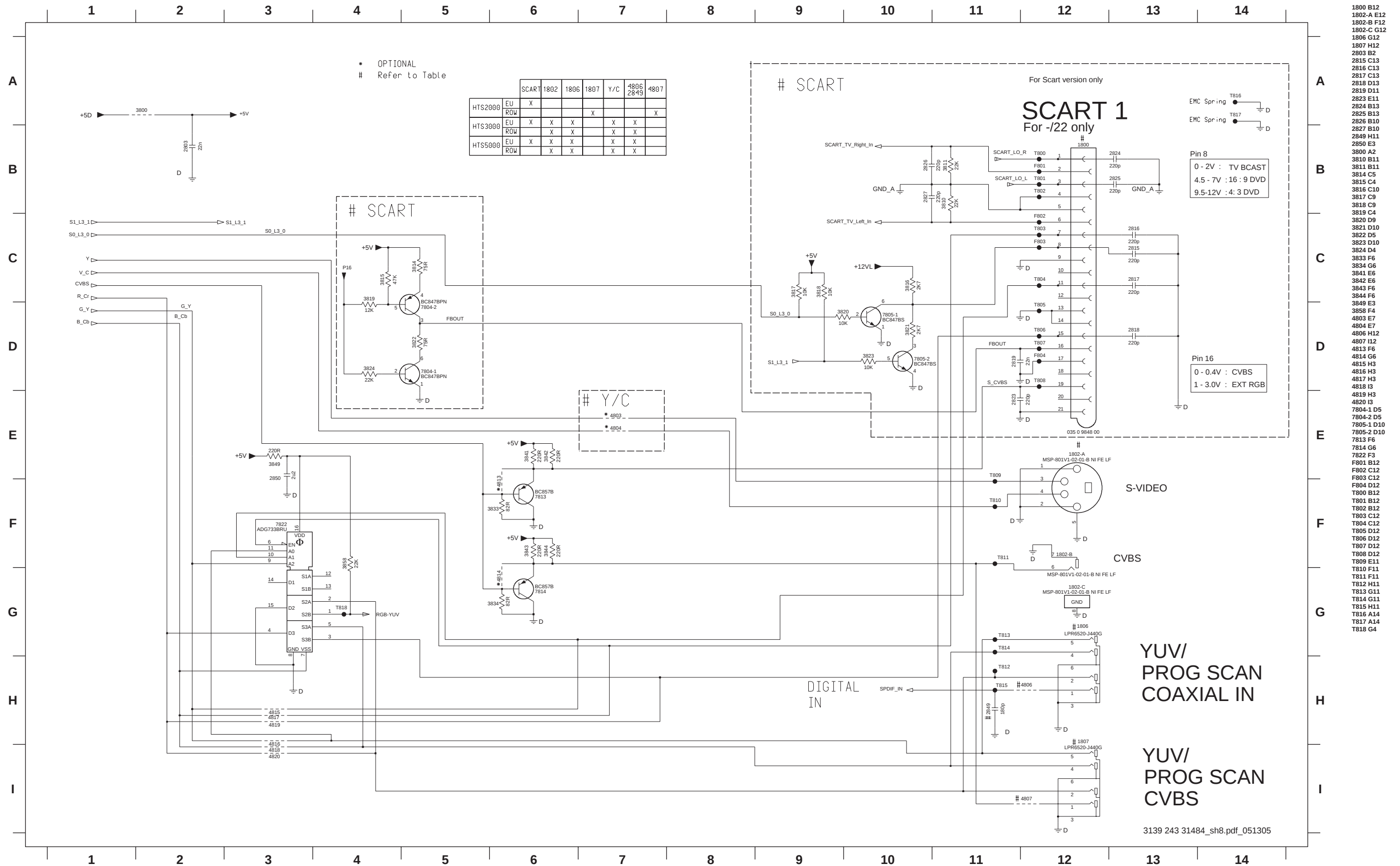
	2 Channel	LsRs	Mute SCART
HTS2000	EU	X	X
HTS3000	EU	X	X
HTS5000	EU	X	X
	ROW	X	X

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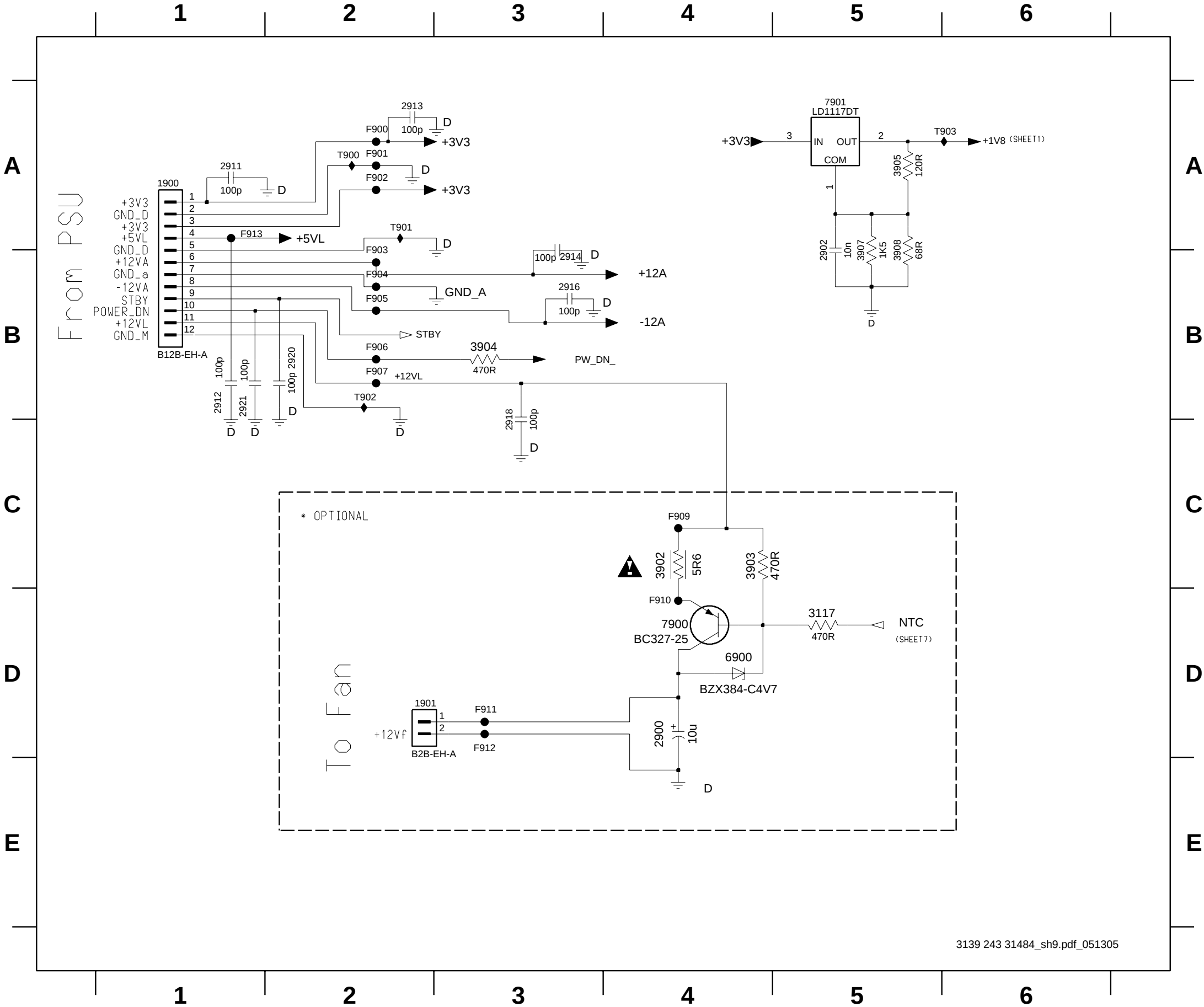
		2 Channel	LsRs	Mute SCART
HTS2000	EU		X	X
	ROW		X	
HTS3000	EU		X	
	ROW		X	X
HTS5000	EU	X		X
	ROW	X		X

3139 243 31484_sh7.pdf_051305

2701 E4	7713 B8
2702 F5	7714 B9
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	
7727 I9	
7728 I13	
7710 C2	
7711-1 F4	
7711-2 G4	
7714 A9	
7715 A10	
7716 C9	
7717 C10	
7718 D9	
7719 D10	
7720 F9	
7721-1 F11	
7721-2 F13	
7723-2 G9	
7724-2 I9	
7725 H13	
7726 G13	
7727 H12	
7700 D2	
7701 C3	
7702 C3	
7703 A11	
7704 A11	
7705 B11	
7706 B11	
7707 D11	
7708 D11	
7709 F8	
7710 F9	
7711 G8	
7712 G9	



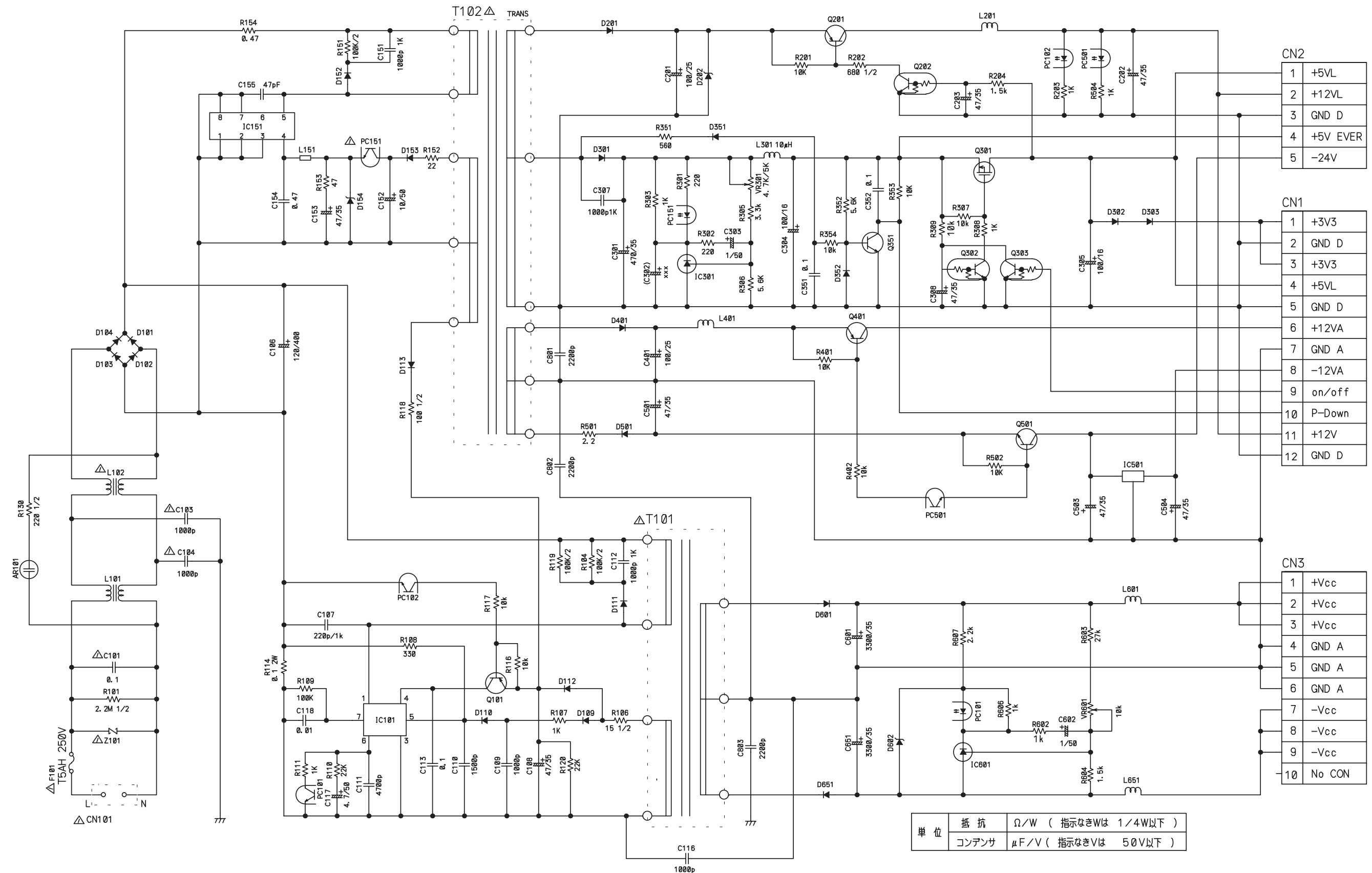
Mono Board: Circuit Diagram (Part 9)



- 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

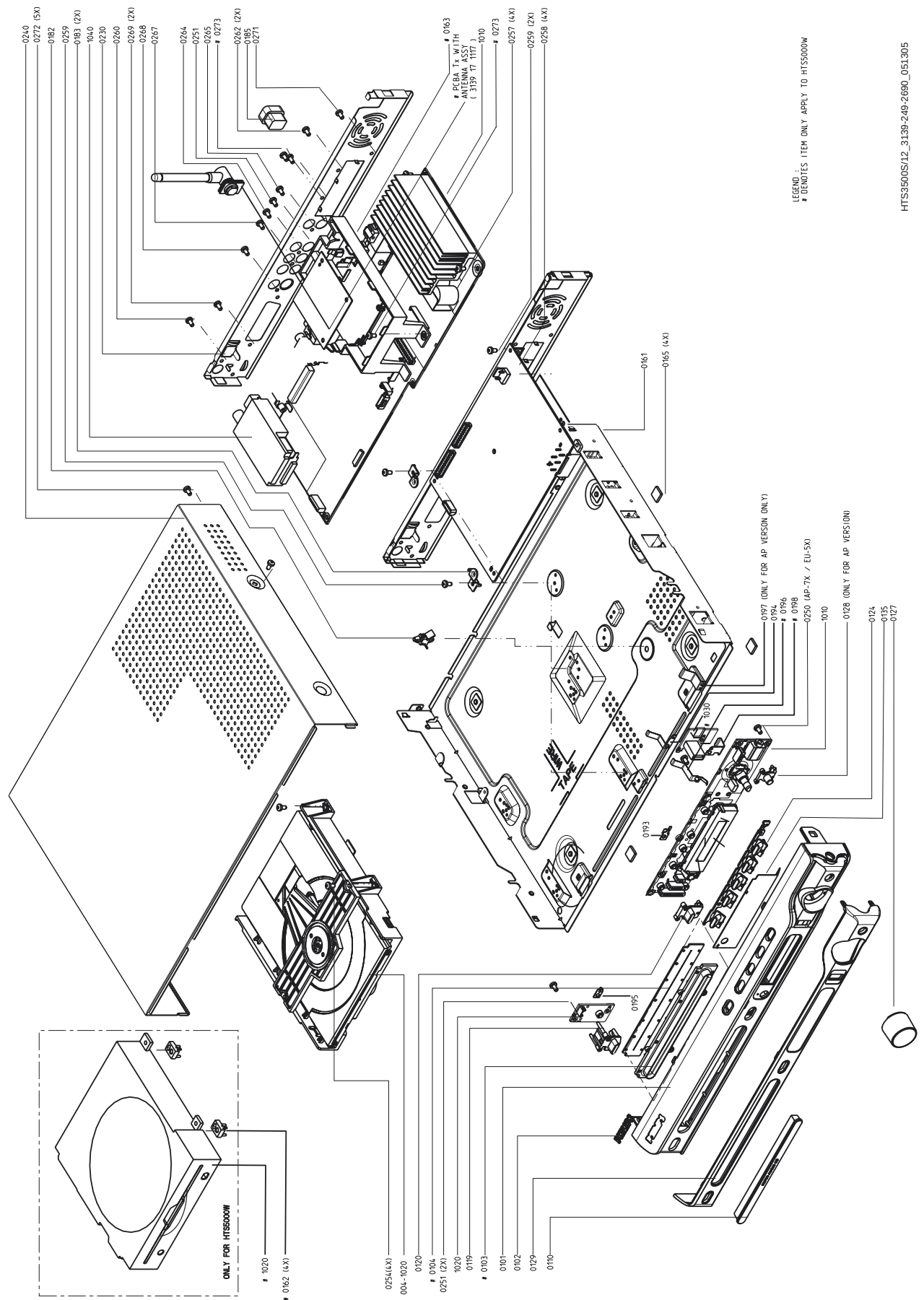
Mono_3500_98_top.pdf_051305

PSU Circuit Diagram (For information only)



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( ) : no stuff
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9. Exploded View of the Set



MISCELLANEOUS HTS3300 (05/12/51)

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 10081	CUSHION FOOT
0182	3139 254 01571	SPACER PCB H11.4 KGLS-4S
0183	3139 241 21261	BRACKET MONO DVD760
0325	3139 119 02771	BOX SPK ASSY SW-3300HTS/12
0326	3139 119 02761	BOX SPK ASSY CS-3300HTS/12
0331	2422 076 00546	ANT FM WIRE 0M94 24AWG BK B
0332	2422 549 45386	ANT AM LOOP LAN-011 B
0333	3139 258 70111	REMOTE CONTROL HTS3500S EU
0336	2422 070 98236 	MAINSCORD UK 5A 1M8 VH BK B
0342	2422 076 00468 	CBLE SCART 1M1 SCART 21P BK B
0332	2422 549 45813	ANT AM LOOP 039S20014 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
1040	2422 542 00014	TUN A+F ENG078VVQF EUR B
1050	3139 118 58622	PCBA FRONT HTS2000D EU
8001	3139 111 03781	FFC FOIL 10P/120/10P AD FOLD

MONO BOARD HTS3300 (05/12/51)

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	2422 025 14519	CON V 10P F 1.25 FFC 0.3 B
1506	2422 026 05383	SOC CINCH H 2P F 2L1 WHRD Y
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 A
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 A
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	2020 552 96302	CER2 0805 Y5V 50V 220N P8020 R
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 A
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	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R
3211	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R
3212	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R
3213	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R
3214	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R
3508	2322 205 33478 	RST FUSE NFR25 A 4R7 PM5 A

COILS & FILTERS

5101	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5104	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5105	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5106	3198 018 90080	FXDIND 0805 100MHZ 600R COL R
5107	3198 018 90080	FXDIND 0805 100MHZ 600R COL R
5113	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5114	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5115	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5116	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5117	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5118	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5119	3198 018 90080	FXDIND 0805 100MHZ 600R COL R
5120	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5122	3198 018 90080	FXDIND 0805 100MHZ 600R COL R
5123	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5124	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5125	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5126	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5200	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5300	3198 018 90020	FXDIND BEAD 100MHZ 80R COL A
5301	3198 018 90020	FXDIND BEAD 100MHZ 80R COL A
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	3198 018 90040	FXDIND 0603 100MHZ 600R COL R

DIODES

6100	3198 010 10630	DIO SIG SM BAS316 (COL) R
6300	3198 020 55680	DIO REG SM BZX384-C5V6 COL R
6301	3198 010 10630	DIO SIG SM BAS316 (COL) R
6302	3198 010 10630	DIO SIG SM BAS316 (COL) R
6303	3198 010 10630	DIO SIG SM BAS316 (COL) R
6305	3198 010 10630	DIO SIG SM BAS316 (COL) R
6306	3198 010 10630	DIO SIG SM BAS316 (COL) R
6500	3198 010 10630	DIO SIG SM BAS316 (COL) R
6501	9322 150 08685	DIO REG SM BZX384-C9V1(VISH) R
6716	3198 010 10630	DIO SIG SM BAS316 (COL) R
6717	3198 010 10630	DIO SIG SM BAS316 (COL) R
6718	3198 010 10630	DIO SIG SM BAS316 (COL) R
6719	3198 010 10630	DIO SIG SM BAS316 (COL) R
6720	3198 010 10630	DIO SIG SM BAS316 (COL) R
6721	3198 010 10630	DIO SIG SM BAS316 (COL) R
6722	3198 010 10630	DIO SIG SM BAS316 (COL) R
6723	3198 010 10630	DIO SIG SM BAS316 (COL) R
6724	3198 010 10630	DIO SIG SM BAS316 (COL) R
6725	3198 010 10630	DIO SIG SM BAS316 (COL) R
6726	3198 010 10630	DIO SIG SM BAS316 (COL) R
6727	3198 010 10630	DIO SIG SM BAS316 (COL) R
6728	3198 010 10630	DIO SIG SM BAS316 (COL) R

TRANSISTORS & INTREGATED CIRCUITS

7102	9322 134 45668	IC SM LD1117DT33 (ST00) R
7104	9322 133 00685	TRA POW SM 2SB1132 (ROHM) R
7105	9322 133 00685	TRA POW SM 2SB1132 (ROHM) R
7106	9340 547 13215	FET POW SM BSH103 (PHSE) R
7107	9340 547 13215	FET POW SM BSH103 (PHSE) R
7108	3198 010 44340	TRA SIG SM BC817-25W (COL) R
7109	9322 216 94671	IC SM MT1389FE/C-L (MEDI) Y
7110	9322 201 94668	IC SM MM1646XH (MITM) R
7112	3198 010 42030	TRA SIG SM BC847B (COL) R
7201	9322 166 67668	IC SM MT48LC4M16A2TG-7EG(MRN)R
7203	9322 194 74668	IC SM M29W160ET70N6 (ST00) R
7300	3198 010 42030	TRA SIG SM BC847B (COL) R
7301	9333 726 60653	IC SM HEF4013BT (PHSE) R
7302	9337 140 00653	IC SM 74HCU04D (PHSE) R
7305	3198 010 42030	TRA SIG SM BC847B (COL) R
7306	3198 010 42150	TRA SIG SM BC857B (COL) R
7307	3198 010 42030	TRA SIG SM BC847B (COL) R
7308	3198 010 42030	TRA SIG SM BC847B (COL) R
7309	3198 010 42030	TRA SIG SM BC847B (COL) R
7310	3198 010 42150	TRA SIG SM BC857B (COL) R
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	3198 020 40030	TRA SIG BC547B (COL) A
7503	9333 729 50653	IC SM HEF4052BT (PHSE) R
7504	9340 425 20115	TRA SIG SM BC847BS (PHSE) R
7613	9322 020 18668	IC SM LM833DG (ONSE) R
7615	9322 215 93668	IC SM CS42406-CQZ (CILO) R
7616	9322 020 18668	IC SM LM833DG (ONSE) R
7619	9322 043 00668	IC SM MC78L05ACDG (ONSE) R
7621	9322 020 18668	IC SM LM833DG (ONSE) R
7720	3198 010 42030	TRA SIG SM BC847B (COL) R
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
7725	3198 010 42150	TRA SIG SM BC857B (COL) R
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
7201	9322 205 53668	IC SM A2V64S40DTP-7 (POSE) R *
7201	9322 209 02668	IC SM IS42S16400B-7T (ISSI) R *

DIODES

6700	9322 179 76676	LED VS LTL-816EELC (LITO) A
6701	934054854115	DIO REG SM PDZ6.2B (PHSE) R
6704	319801010630	DIO SIG SM BAS316 (COL) R
6705	319801010630	DIO SIG SM BAS316 (COL) R
6706	319801010630	DIO SIG SM BAS316 (COL) R
6707	319801010630	DIO SIG SM BAS316 (COL) R
6708	319801010630	DIO SIG SM BAS316 (COL) R
6709	319801010630	DIO SIG SM BAS316 (COL) R
6710	319801010630	DIO SIG SM BAS316 (COL) R
6711	319801010630	DIO SIG SM BAS316 (COL) R
6712	319801010630	DIO SIG SM BAS316 (COL) R
6713	319801010630	DIO SIG SM BAS316 (COL) R
6714	319801010630	DIO SIG SM BAS316 (COL) R
6715	319801010630	DIO SIG SM BAS316 (COL) R
6716	319801010630	DIO SIG SM BAS316 (COL) R
6717	319801010630	DIO SIG SM BAS316 (COL) R
6718	319801010630	DIO SIG SM BAS316 (COL) R
6719	319801010630	DIO SIG SM BAS316 (COL) R
6720	319801010630	DIO SIG SM BAS316 (COL) R

TRANSISTORS & INTREGATED CIRCUITS

7701	9322 185 97667	IR RECEIVER TSOP4836ZC1(VISH)L
7704	3198 010 42030	TRA SIG SM BC847B (COL) R
7705	3198 010 43230	TRA SIG SM BC817-25 (COL) R
7706	3198 010 42150	TRA SIG SM BC857B (COL) R
7707	3198 010 42030	TRA SIG SM BC847B (COL) R
7708	9322 217 04671	IC SM V63111LF (VAIT) Y
1901	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A

FRONT BOARD HTS3300 (05/12/51)**MISCELLANEOUS**

1701	3139 111 04131	FTD HUV-08SS57T (LX-3900SA)
1710	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1711	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1712	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1713	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1714	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1716	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A

MISCELLANEOUS HTS3300 (55/98/93)

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
0128	3139 244 05991	BUTTON MIC LEVEL PNT
0165	3139 243 10081	CUSHION FOOT
0182	3139 254 01571	SPACER PCB H11.4 KGLS-4S
0183	3139 241 21261	BRACKET MONO DVD760
0325	3139 119 02771	BOX SPK ASSY SW-3300HTS/12
0326	3139 119 02761	BOX SPK ASSY CS-3300HTS/12
0331	2422 076 00546	ANT FM WIRE 0M94 24AWG BK B
0332	2422 549 45386	ANT AM LOOP LAN-011 B
0333	3139 258 70101	REMOTE CONTROL HTS3500S AP
0336	2422 070 98231 	MAINSCORD IEC 2A5 1M8 VH BK B
0338	3103 308 92611	CABLE AUDIO 2X2 RCA MALE 1.5M
0340	2422 076 00208	Cble CINCH/1M7/CINCH NI YE
0332	2422 549 45813	ANT AM LOOP 039S20014 B
1010	3139 118 58352	PCBA MONO HTS2000D ROW
1020	3139 247 11121	LOADER ASSY ST KHM RX
1030	3139 117 11121 	PCBA PSU 04-05 200W DELTA AP
1040	2422 542 00015	TUN A+F ENG068VVQF USA B
1050	3139 118 58612	PCBA FRONT HTS2000D ROW
8001	3139 111 03781	FFC FOIL 10P/120/10P AD FOLD

MONO BOARD HTS3300 (05/12/51)

MISCELLANEOUS

1101	2422 025 17529	CON BM H 24P F 0.50 FFC 0.3 R
1301	2422 540 98568	RES CER 700KHZ CSBLA* B
1401	2422 025 18516	SOC PUSH H 6P M PUBUGY Y
1402	2422 025 18517	SOC PUSH H 6P M WHGNRD Y
1502	2422 026 05462	SOC CINCH H 4P F 2L2 WHRD Y
1505	2422 025 14519	CON V 10P F 1.25 FFC 0.3 B
1807	2422 026 05708	SOC CINCH H 4P F 2L2 Y

CAPACITORS

2400	2020 021 91431	ELCAP YXA 100V S 22U PM20 A
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 A
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
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 A
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	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R
3211	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R
3212	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R
3213	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R
3214	3198 031 11090	RST NETW 1206 4X 10R PM5 COL R

COILS & FILTERS

5101	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5104	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5105	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5106	3198 018 90080	FXDIND 0805 100MHZ 600R COL R
5107	3198 018 90080	FXDIND 0805 100MHZ 600R COL R
5108	2422 543 01393	RES XTL SM 27MHZ 10P CX8045 R
5113	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5114	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5115	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5116	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5117	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5118	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5119	3198 018 90080	FXDIND 0805 100MHZ 600R COL R
5120	2422 549 45618	IND FXD 0603 EMI 100MHZ 60R R
5122	3198 018 90080	FXDIND 0805 100MHZ 600R COL R
5123	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5124	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5125	3198 018 31090	FXDIND SM 0805 10U PM10 COL R
5126	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5200	3198 018 90040	FXDIND 0603 100MHZ 600R COL R
5300	3198 018 90020	FXDIND BEAD 100MHZ 80R COL A
5301	3198 018 90020	FXDIND BEAD 100MHZ 80R COL A
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	3198 018 90040	FXDIND 0603 100MHZ 600R COL R

DIODES

6100	3198 010 10630	DIO SIG SM BAS316 (COL) R
6300	3198 020 55680	DIO REG SM BZX384-C5V6 COL R
6301	3198 010 10630	DIO SIG SM BAS316 (COL) R
6302	3198 010 10630	DIO SIG SM BAS316 (COL) R
6303	3198 010 10630	DIO SIG SM BAS316 (COL) R
6305	3198 010 10630	DIO SIG SM BAS316 (COL) R
6306	3198 010 10630	DIO SIG SM BAS316 (COL) R
6500	3198 010 10630	DIO SIG SM BAS316 (COL) R
6501	9322 150 08685	DIO REG SM BZX384-C9V1(VISH) R
6716	3198 010 10630	DIO SIG SM BAS316 (COL) R
6717	3198 010 10630	DIO SIG SM BAS316 (COL) R
6718	3198 010 10630	DIO SIG SM BAS316 (COL) R
6719	3198 010 10630	DIO SIG SM BAS316 (COL) R
6720	3198 010 10630	DIO SIG SM BAS316 (COL) R
6721	3198 010 10630	DIO SIG SM BAS316 (COL) R
6722	3198 010 10630	DIO SIG SM BAS316 (COL) R
6723	3198 010 10630	DIO SIG SM BAS316 (COL) R
6725	3198 010 10630	DIO SIG SM BAS316 (COL) R
6727	3198 010 10630	DIO SIG SM BAS316 (COL) R

TRANSISTORS & INTREGATED CIRCUITS

7102	9322 134 45668	IC SM LD1117DT33 (ST00) R
7104	9322 133 00685	TRA POW SM 2SB1132 (ROHM) R
7105	9322 133 00685	TRA POW SM 2SB1132 (ROHM) R
7106	9340 547 13215	FET POW SM BSH103 (PHSE) R
7107	9340 547 13215	FET POW SM BSH103 (PHSE) R
7108	3198 010 44340	TRA SIG SM BC817-25W (COL) R
7109	9322 216 94671	IC SM MT1389FE/C-L (MEDI) Y
7110	9322 201 94668	IC SM MM1646XH (MITM) R
7112	3198 010 42030	TRA SIG SM BC847B (COL) R
7201	9322 166 67668	IC SM MT48LC4M16A2TG-7EG(MRN)R
7203	9322 194 74668	IC SM M29W160ET70N6 (ST00) R
7300	3198 010 42030	TRA SIG SM BC847B (COL) R
7301	9333 726 60653	IC SM HEF4013BT (PHSE) R
7302	9337 140 00653	IC SM 74HCU04D (PHSE) R
7305	3198 010 42030	TRA SIG SM BC847B (COL) R
7306	3198 010 42150	TRA SIG SM BC857B (COL) R
7307	3198 010 42030	TRA SIG SM BC847B (COL) R
7308	3198 010 42030	TRA SIG SM BC847B (COL) R
7309	3198 010 42030	TRA SIG SM BC847B (COL) R
7310	3198 010 42150	TRA SIG SM BC857B (COL) R
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
7500	9322 068 82668	IC SM LM833D (ST00) R
7502	3198 020 40030	TRA SIG BC547B (COL) A
7503	9333 729 50653	IC SM HEF4052BT (PHSE) R
7613	9322 020 18668	IC SM LM833DG (ONSE) R
7615	9322 215 93668	IC SM CS42406-CQZ (CILO) R
7616	9322 020 18668	IC SM LM833DG (ONSE) R
7619	9322 043 00668	IC SM MC78L05ACDG (ONSE) R
7621	9322 020 18668	IC SM LM833DG (ONSE) R
7720	3198 010 42030	TRA SIG SM BC847B (COL) R
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
7901	9322 144 97668	IC SM LD1117DT (ST00) R
7201	9322 205 53668	IC SM A2V64S40DTP-7 (POSE) R
7201	9322 209 02668	IC SM IS42S16400B-7T (ISSI) R

DIODES

6700	9322 179 76676	LED VS LTL-816EELC (LITO) A
6701	9340 548 54115	DIO REG SM PDZ6.2B (PHSE) R
6703	3198 010 10630	DIO SIG SM BAS316 (COL) R
6704	3198 010 10630	DIO SIG SM BAS316 (COL) R
6705	3198 010 10630	DIO SIG SM BAS316 (COL) R
6706	3198 010 10630	DIO SIG SM BAS316 (COL) R
6707	3198 010 10630	DIO SIG SM BAS316 (COL) R
6708	3198 010 10630	DIO SIG SM BAS316 (COL) R
6709	3198 010 10630	DIO SIG SM BAS316 (COL) R
6710	3198 010 10630	DIO SIG SM BAS316 (COL) R
6711	3198 010 10630	DIO SIG SM BAS316 (COL) R
6712	3198 010 10630	DIO SIG SM BAS316 (COL) R
6713	3198 010 10630	DIO SIG SM BAS316 (COL) R
6714	3198 010 10630	DIO SIG SM BAS316 (COL) R
6715	3198 010 10630	DIO SIG SM BAS316 (COL) R
6716	3198 010 10630	DIO SIG SM BAS316 (COL) R
6717	3198 010 10630	DIO SIG SM BAS316 (COL) R
6718	3198 010 10630	DIO SIG SM BAS316 (COL) R
6719	3198 010 10630	DIO SIG SM BAS316 (COL) R
6720	3198 010 10630	DIO SIG SM BAS316 (COL) R

TRANSISTORS & INTREGATED CIRCUITS

7701	9322 185 97667	IR RECEIVER TSOP4836ZC1(VISH)L
7702	9322 068 82668	IC SM LM833D (ST00) R
7703	3198 010 42030	TRA SIG SM BC847B (COL) R
7704	3198 010 42030	TRA SIG SM BC847B (COL) R
7705	3198 010 43230	TRA SIG SM BC817-25 (COL) R
7706	3198 010 42150	TRA SIG SM BC857B (COL) R
7707	3198 010 42030	TRA SIG SM BC847B (COL) R
7708	9322 217 04671	IC SM V63111LF (VAIT) Y
1901	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A

FRONT BOARD HTS3300 (55/98/93)**MISCELLANEOUS**

1701	3139 111 04131	FTD HUV-08SS57T (LX-3900SA)
1709	2422 026 05691	SOC PHONE H 1P F 3.5 MSJ Y
1710	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1711	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1712	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1713	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1714	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1715	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A
1716	2422 128 02742	SWI TACT H=4.3 160G SKQNAB A

COILS & FILTERS

5700	3198 017 22250	CER2 0805 Y5V 10V 2U2 COL R
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11 REVISION LIST

11.1 Manual 3139 785 31171

1. Replace of schematic diagram (point 4) in page 22 of document.