

Service  
Service  
**Service**



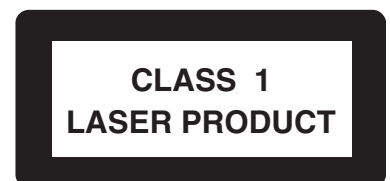
# Service Manual



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# 1. Specifications

## 1.1 GENERAL:

Mains voltage	: 120V for /37 220-240V for /05, /12 110-127V/220-240V for /93, /98
Mains frequency	: 50/60Hz
Power consumption	: < 14W < 3W at Standby mode
Dimension centre unit	: 435 x 48 x 310mm

## 1.2 AUDIO PERFORMANCE: Normal Mode Stereo L/R

Output Voltage	: 2Vrms ± 1.5dB
Channel Unbalance (1kHz)	: < 0.45dB
Crosstalk	: > 90dB (1kHz) > 70dB (16kHz-20kHz)
Freq. Response (20Hz-20kHz)	: ± 1.0dB
Signal to Noise Ratio	: > 90dB (A-weighted)
Distortion and Noise	: < 80dB (1kHz)

## 1.3 AUDIO FORMAT:

MPEG/AC-3/PCM	: Compressed Digital 16, 20, 24 bits fs, 44.1, 48, 96 kHz
MP3 (ISO 9660)	: 96, 112, 128, 256 kbps & variable bit rate fs, 32, 44.1, 48 kHz

## 1.4 VIDEO FORMAT:

Digital Compression	: MPEG-2 for DVD, SVCD MPEG-1 for VCD MPEG-4 DivX
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## 1.5 VIDEO PERFORMANCE:

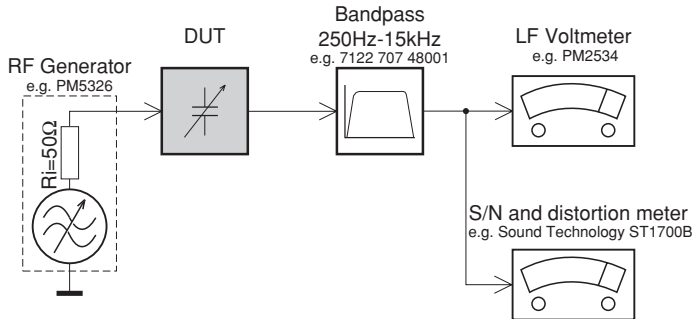
CVBS <sup>1)</sup>	: 1.0V <sub>p-p</sub>
YPbPr <sup>1)</sup>	: 0.7V <sub>p-p</sub>
RGB (Scart) <sup>1)</sup>	: 0.7V <sub>p-p</sub>

<sup>1)</sup> Output terminals to be terminated with 75Ω

## 2. Measurements Setup, Service Aid & Service Hints

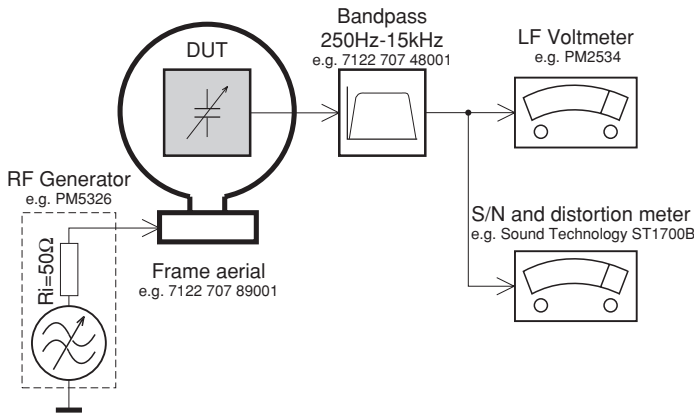
### MEASUREMENT SETUP

#### Tuner FM



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

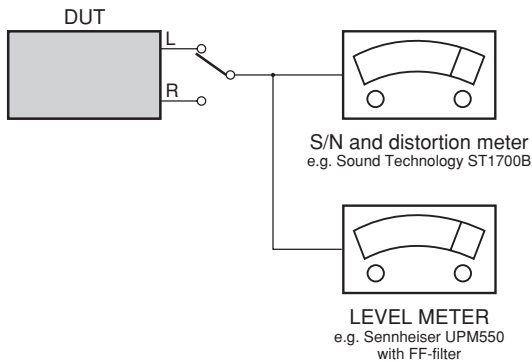
#### Tuner AM (MW,LW)



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

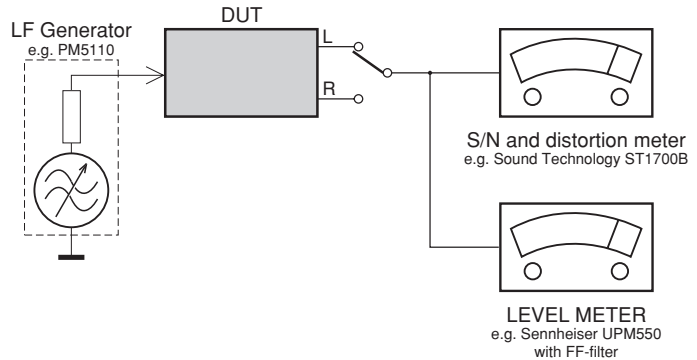
#### CD

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



#### Recorder

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



## SERVICE AIDS

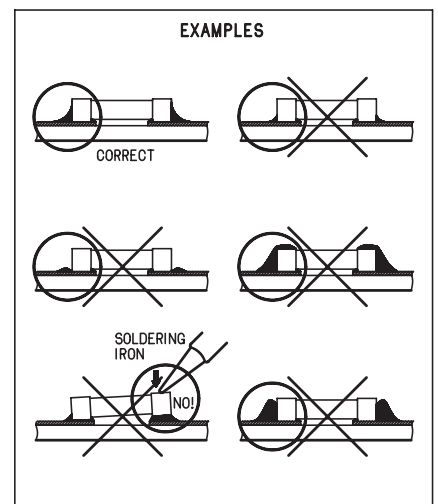
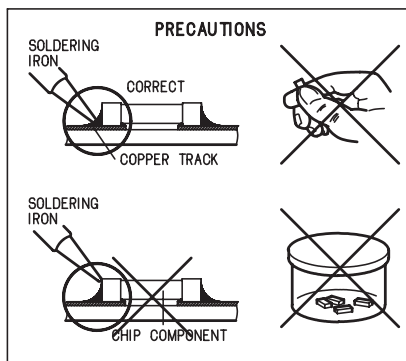
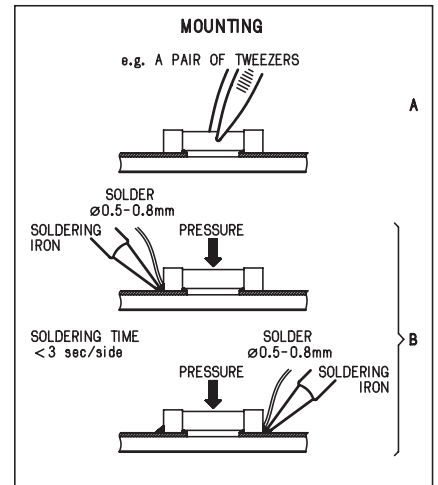
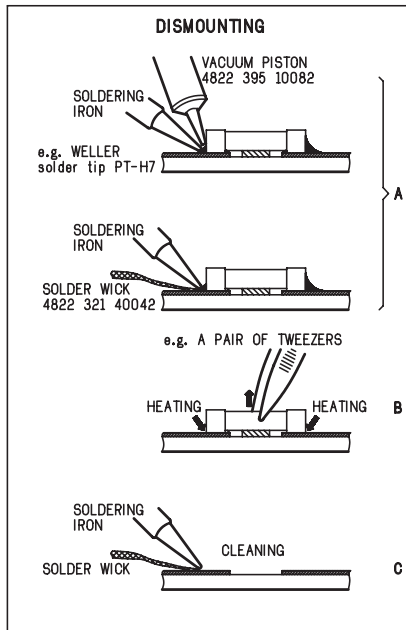
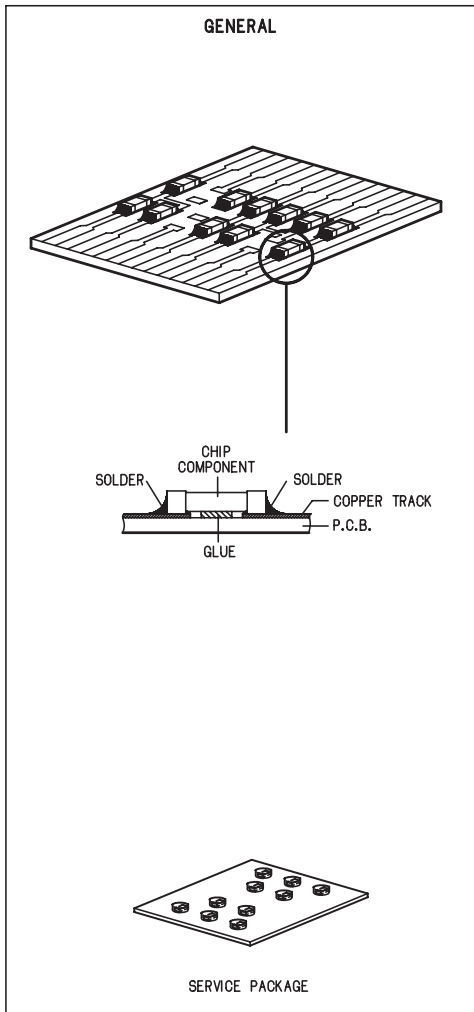
### Service Tools:

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

### Compact Disc:

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

## HANDLING CHIP COMPONENTS



**(GB) WARNING**

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

**ESD****(NL) WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op hetzelfde potentiaal.

**(F) ATTENTION**

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).

Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

**(D) WARNUNG**

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).

Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.

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

Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

**(I) AVVERTIMENTO**

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

La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione.

Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

**(GB) ESD PROTECTION EQUIPMENT:**

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

**(GB)**

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

Safety components are marked by the symbol  $\triangle$ .

**(NL)**

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

De Veiligheidsonderdelen zijn aangeduid met het symbool  $\triangle$ .

**(F)**

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

Less composants de sécurité sont marqués  $\triangle$ .

**(D)**

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

Sicherheitsbauteile sind durch das Symbol  $\triangle$  markiert.

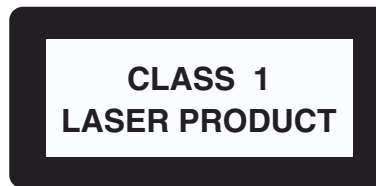
**(I)**

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

Componenti di sicurezza sono marcati con  $\triangle$ .

**(GB)**

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

**(GB) Warning !**

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

**(S) Varning !**

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

**(SF) Varoitus !**

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

**(DK) Advarse !**

Usynlig laserstrålning ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for strålning.

**(F)**

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

## 2.2 Service Hints

### CAUTION

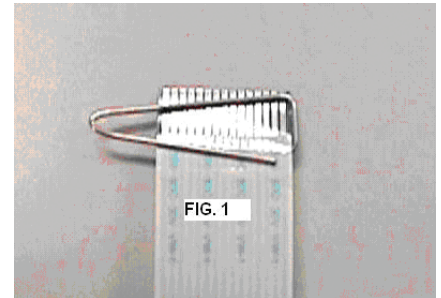
**CHARGED CAPACITORS ON THE SERVO BOARD MAY DAMAGE THE DRIVE ELECTRONICS WHEN CONNECTING A NEW DRIVE. THAT'S WHY, BESIDES THE SAFETY MEASURES LIKE**

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

**ADDITIONAL ACTIONS MUST BE TAKEN BY THE REPAIR TECHNICIAN.**

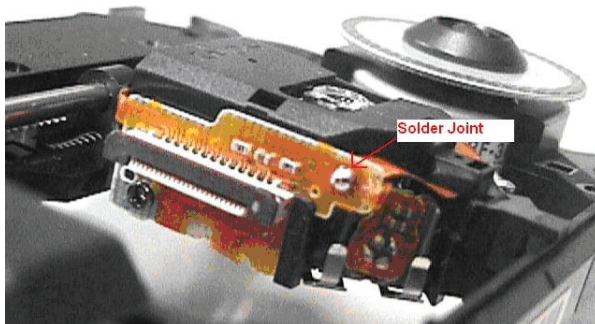
### The following steps have to be done when replacing the defective loader :

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



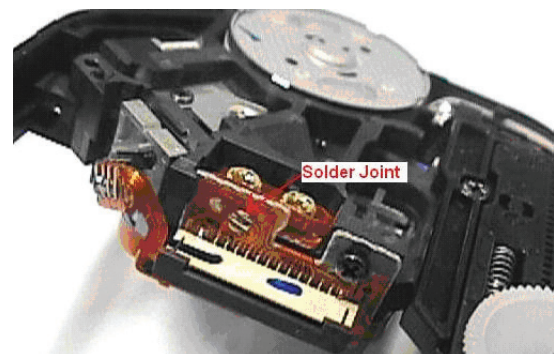
**ATTENTION:** The laser diode of this loader is protected against ESD by a solder joint which shortcircuits the laser diode to ground. For proper functionality of the loader this solder joint must be removed **after** connection loader to the set.

Type 1



(ESD protection point is accessible from top of loader)

Type 2



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

***\*Only applicable for defective loader needed to be sent back to supplier for failure analysis and to support backcharging evidence.***

***This is also applicable for all partnership workshops.***

## 3. Directions For Use

The following excerpt 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](http://www.p4c.philips.com)

DivX DVD Player

DVP5900

# See, hear, play everything with HDMI

Be impressed with this Philips DVD player with HDMI digital video and audio connection. Step into another home entertainment arena as you immerse yourself with High Definition video (720p / 1080i).

### Unrivalled video performance

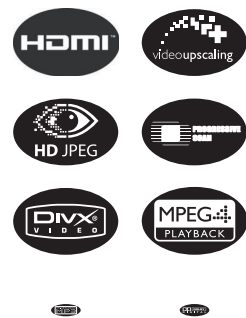
- HDMI out for digital high-definition video and digital audio
- Video Upscaling for improved resolution of up to 1080i lines
- Displays high definition pictures (JPEG) in true resolution

### Enrich your movie experience

- Progressive Scan for razor-sharp and flicker free images
- 192kHz/24-bit audio DAC delivers high-quality audio

### Plays it all

- Movies: DVD, DVD+R/RW, (S)VCD, DivX 3.11/4.x/5.x/6.x, MPEG4
- Music: CD, MP3-CD, CD-R/RW & Windows Media™ Audio
- Photos: Picture CD (JPEG)





## DivX DVD Player

### Technical specifications

#### Picture/Display

- **D/A converter:** 10 bit, 54 MHz
- **Picture enhancement:** Progressive Scan, Video upscaling, Video upsampling

#### Sound

- **D/A converter:** 192kHz/24-bit
- **Signal to noise ratio:** 108 dB
- **Distortion and Noise (1kHz):** 80 dB
- **Crosstalk (1kHz):** 100 dB
- **Dynamic Range (1kHz):** 94 dB
- **Sound System:** Dolby Digital, MPEG2, Stereo
- **Sound Enhancement:** Night Mode

#### Video Playback

- **Disc Playback Media:** CD, CD-R/CD-RW, Video CD/SVCD, DVD, DVD-RW (Video mode), DVD-R, DVD-Video, DivX, WMA, DVD+R/+RW
- **Compression formats:** MPEG1, MPEG2, MPEG4, XviD, DivX 3.11, DivX 4.x, DivX 5.x

#### Audio Playback

- **Disc Playback Media:** CD, MP3-CD, WMA, CD-R/RW
- **Compression format:** Dolby Digital, MP3, PCM, Windows Media (TM) Audio
- **MP3 bit rates:** 32 - 256 kbps

#### Still Picture Playback

- **Disc Playback Media:** Picture CD
- **Picture compression format:** JPEG
- **Picture enhancement:** Rotate, Zoom, High Definition Resolution

#### Connectivity

- **Other connections:** HDMI out

- **Audio Output - Analog:** Stereo (Red/White cinch)
- **Audio Output - Digital:** Coaxial (cinch)
- **Video Output - Analog:** Component RGB (SCART), Composite CVBS (on SCART), Component Y Pb Pr (cinch), Composite CVBS (yellow cinch)

#### Convenience

- **On-Screen Display languages:** Danish, Dutch, English, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish, Turkish, Polish, Russian

#### Power

- **Power supply:** 100-240VAC, 50/60Hz
- **Standby power consumption:** < 3W

#### Accessories

- **Batteries:**
- **Cables:** None
- **Remote control:** 3141 017 90221
- **User Manual:** Danish, Dutch, English, Finnish, French, German, Greek, Italian, Norwegian, Portuguese, Spanish, Swedish, Turkish, Polish, Russian
- **Included batteries:** 2x Longlife AA

#### Dimensions

- **Packaging dimensions (W x H x D):** 562 x 85 x 411 mm
- **Weight incl. Packaging:** 3.5 kg
- **Set dimensions (W x H x D):** 435 x 48 x 310 mm
- **Set weight:** 1.9 kg

### Product highlights

#### HDMI

HDMI stands for High Definition Multimedia Interface. It is a direct digital connection that can carry digital HD video as well as digital multichannel audio. By eliminating the conversion to analog signals it delivers perfect picture and sound quality, completely free from noise. HDMI is fully backward-compatible with DVI.

#### Video Upscaling

With Video Upscaling you can increase the resolution of SD (Standard Definition) video signals that DVD uses to HD (High Definition) so you'll be able to see more details thanks to a sharper, more true-to-life picture. The resulting HD video output signal can be fed to an HD display through HDMI (High-Definition Multimedia Interface).

#### High definition pictures

With High Resolution JPEG playback, you can show up to 2 Megapixel resolution on your FTV. Now you can view your digital pictures in their true resolution, without loss of quality or details.

#### Progressive Scan

Progressive Scan doubles the vertical resolution of the image resulting in a noticeably sharper picture. Instead of sending a field comprising the odd lines to the screen first, followed by the field with the even lines, both fields are written at one time. A full image is created instantaneously, using the maximum resolution. At such a speed, your eye perceives a sharper picture with no line structure.

#### 192kHz/24 bit audio DAC

192KHz sampling enables you to have an accurate representation of the original sound curves. Together with a 24-bit resolution, more information is captured from the original analogue sound wave form, giving a much richer audio reproduction.

#### Multi-format Movies-DivX, MP4

Multi-format playability allows you to play most disc formats for maximum compatibility and viewing pleasure.

#### Music: Windows Media™ Audio

Multi-format playability allows you to play most disc formats for maximum disc compatibility and listening pleasure.

#### Picture CD (JPEG)

Multi-format playability allows you to view images in the comfort of your living room and play most disc formats for maximum disc compatibility and viewing pleasure.

## 4. Dismantling Instructions

### 4.1 Dismantling of the DVD Loader.

- 1) The tray can be manually open by inserting a minus screw driver and push the lever in the direction as shown in Figure 1 to unlock the tray before sliding it out.
- 2) Slide out the tray and remove the Tray Front assembly as shown in Figure 2.

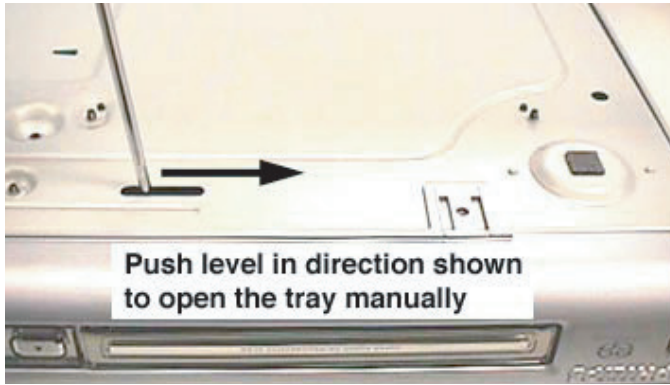


Figure 4-1

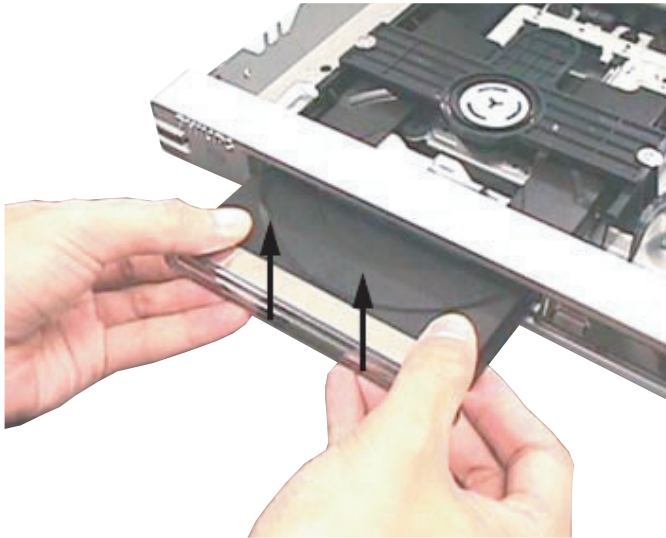


Figure 4-2

- 3) Loosen 5 screws to remove the Cover Top.
  - 1 screw each on the left and right side
  - 3 screws on the rear
- 4) Loosen 4 screws to remove the DVD Loader as shown in Figure 3.

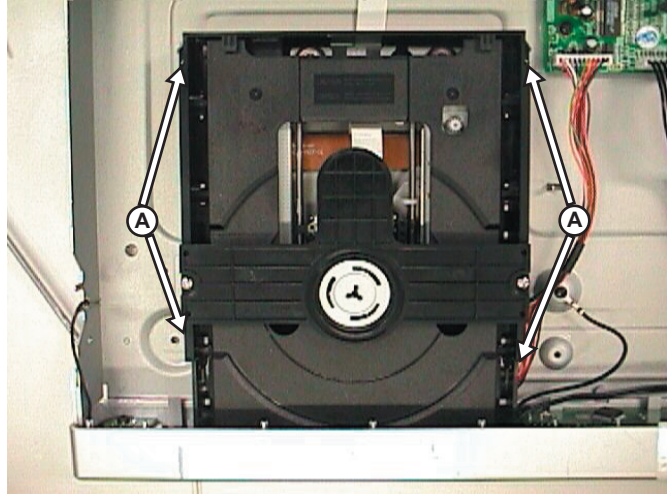


Figure 4-3

## 4.2 Dismantling of the Front Board, Zoran Board, PSU Board.

- 1) Release 2 snap hooks on the sides to remove the Front Panel.
- 2) Loosen 2 screws on the board and 4 screws at the rear of the set to remove the Zoran Board.

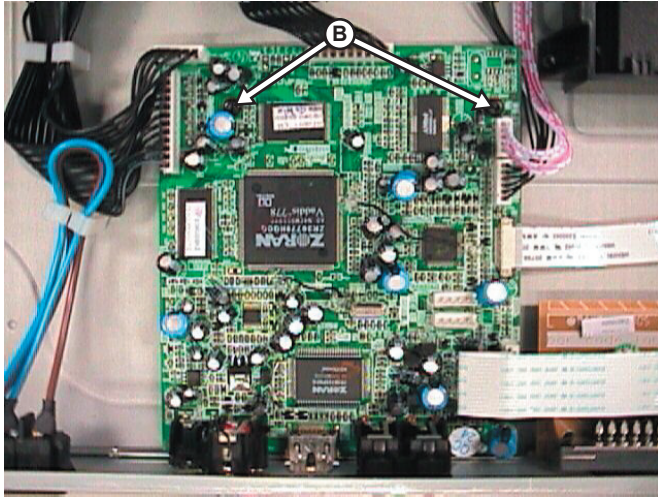


Figure 4-4

- 3) Loosen 2 screws to remove the PSU Board.

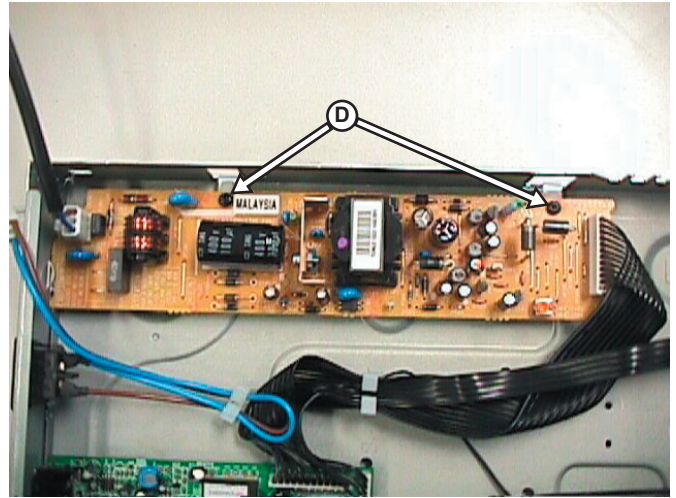


Figure 4-6

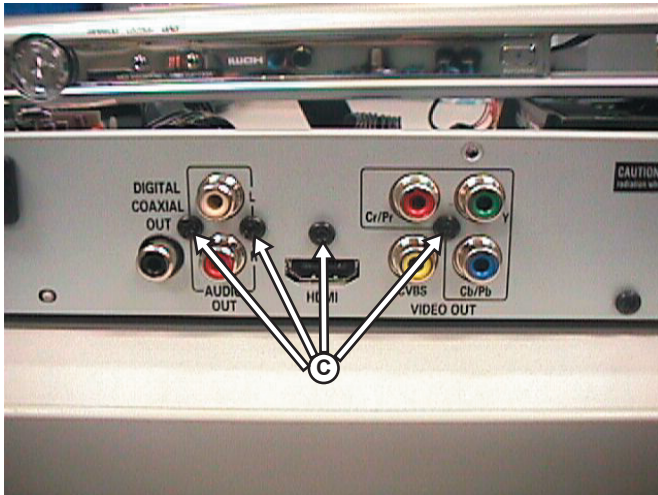
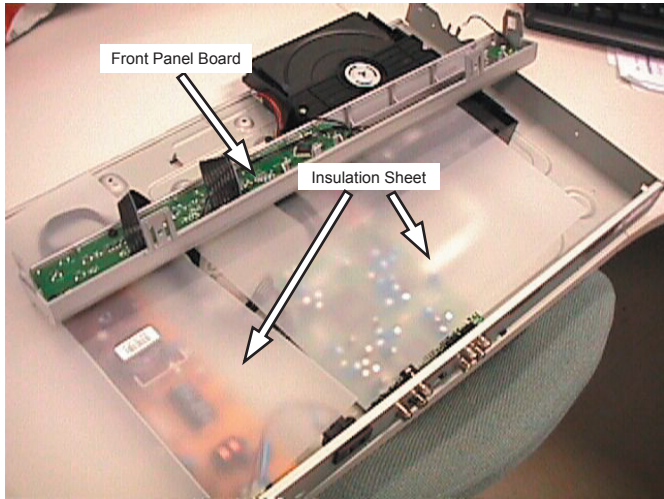
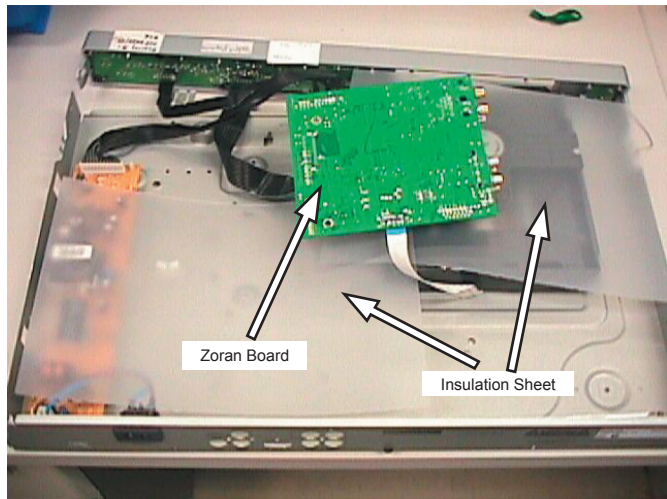


Figure 4-5

### 4.3 Service Positions



Service Position - Front Panel



Service Position - Zoran Board

# 5. Service Test Program

To start service test program hold button depressed while set is in standby and press the STANDBY button\*

\* Mains power to set must be on  
Hold button depressed till the Display shown "SVxx-yy"

Display shows the ROM version "SVxx-yy"

S refers to Service Mode  
V refers to Version  
xx refers to Software version number of the back uProcessor (counting up from 01 to 99)  
yy refers to the front uProcessor version number (00 will be displayed if there is no front uProcessor use)

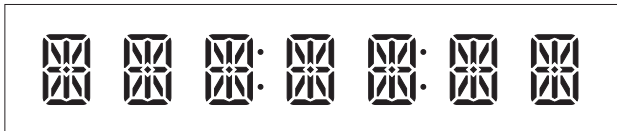
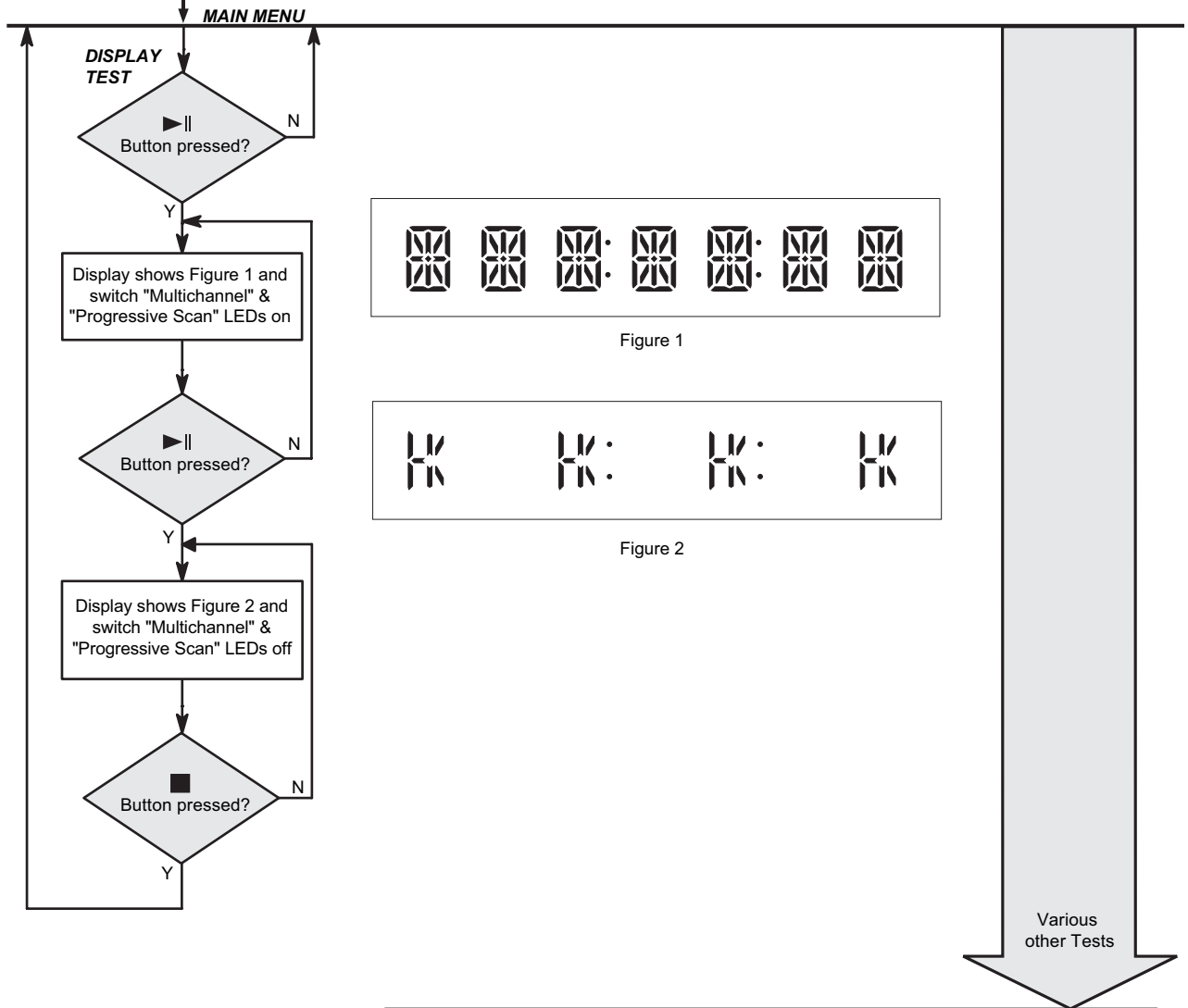


Figure 1



Figure 2

Various other Tests

TEST	Activated with	ACTION
EEPROM FORMAT TEST	to Exit	Load default data. Display shows "NEW". <b>Caution!</b> <b>All presets from the customer will be lost!!</b>
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
DVP 5900/12	Europe	2	PAL
DVP 5900/98	AP	3	PAL
DVP 5900/93	China	6	PAL
DVP 5900/37	Nafta	1	NTSC
DVP 5900/05	UK/Ireland	2	PAL

To reprogram do as follows:

- Power up the set.
- Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
- Press the following buttons on the Remote Control:
  - <9> <9> <9> <9> <SUBTITLE> <0> .....for DVP 5900/12,  
DVP 5900/05
  - <9> <9> <9> <9> <SUBTITLE> <1> .....for DVP 5900/51
  - <9> <9> <9> <9> <SUBTITLE> <3> .....for DVP 5900/98
  - <9> <9> <9> <9> <SUBTITLE> <5> .....for DVP 5900/93
  - <9> <9> <9> <9> <AUDIO> <7> .....for DVP 5900/37
- The display shows 'YYYY-ZZ' and the tray will close.  
**YYYY** = model number (eg. 0720, 3900, etc.)  
**ZZ** = stroke version (eg. 00, 02, 05, etc.)

### 5.1.2 Procedure for check Software version

- Power up the set.
- Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
- Press "DISPLAY" button on the Remote control.
- The TV screen will shows:

**SD6.1 Vxx YYYY-ZZ P QQ**  
**SERVO: GGGGGGGG REG:D**

xx = version number  
 YYYY = model number (eg. 0720, 3900, etc.)  
 ZZ = stroke version (eg. 00, 02, 05, etc.)  
 P / D = region code  
 QQ = version number of front uProcessor  
 GGGGGGGG = version for servo code

### 5.1.3 Procedure to upgrade software

- Power up the set.
- Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
- Place upgrade CD-ROM onto tray and close.
- The set will response and display the following:
  - **LOAD** [After the disc is read, the tray will open for you to remove the disc]
  - **ERASE**
  - **WRITE**
  - **ERROR** [if upgrade is unsuccessful]
  - **UPG END -> PHILIPS** [if upgrade is successful]
  - **DISC->CLOSE->LOAD** [Tray will close indicating that the upgrade process is completed]
- The whole process should not take more than 5 minutes.

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

### 5.1.4 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:

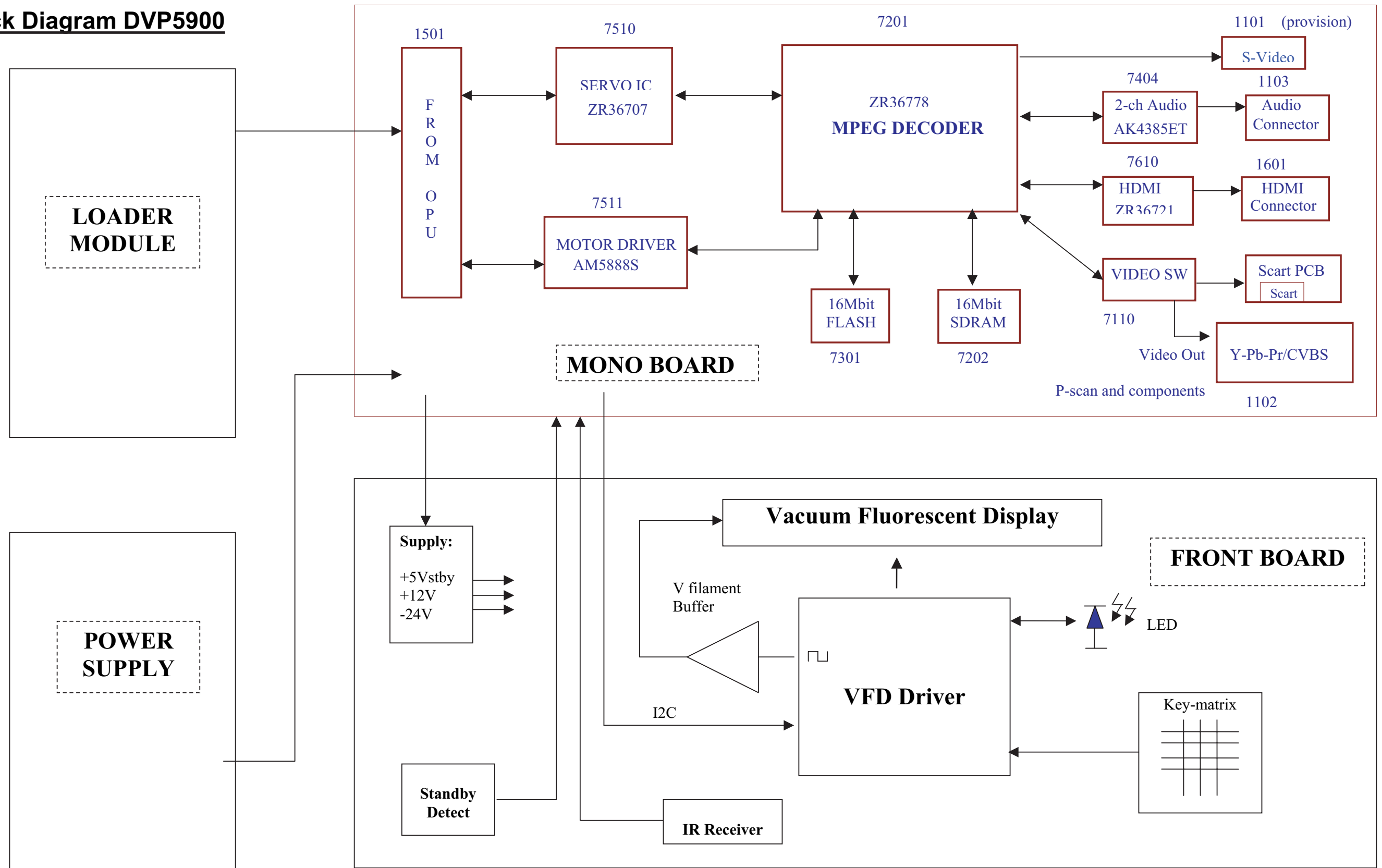
- Power up the set.
- Open tray by press "OPEN/CLOSE" button on the set or press and hold "STOP" button on the RC.
- Then press buttons <2> <5> <9> on the RC.
- The display shows 'TRA ON' and the tray will close. Trade Mode is now enabled.

#### To deactivate Trade Mode:

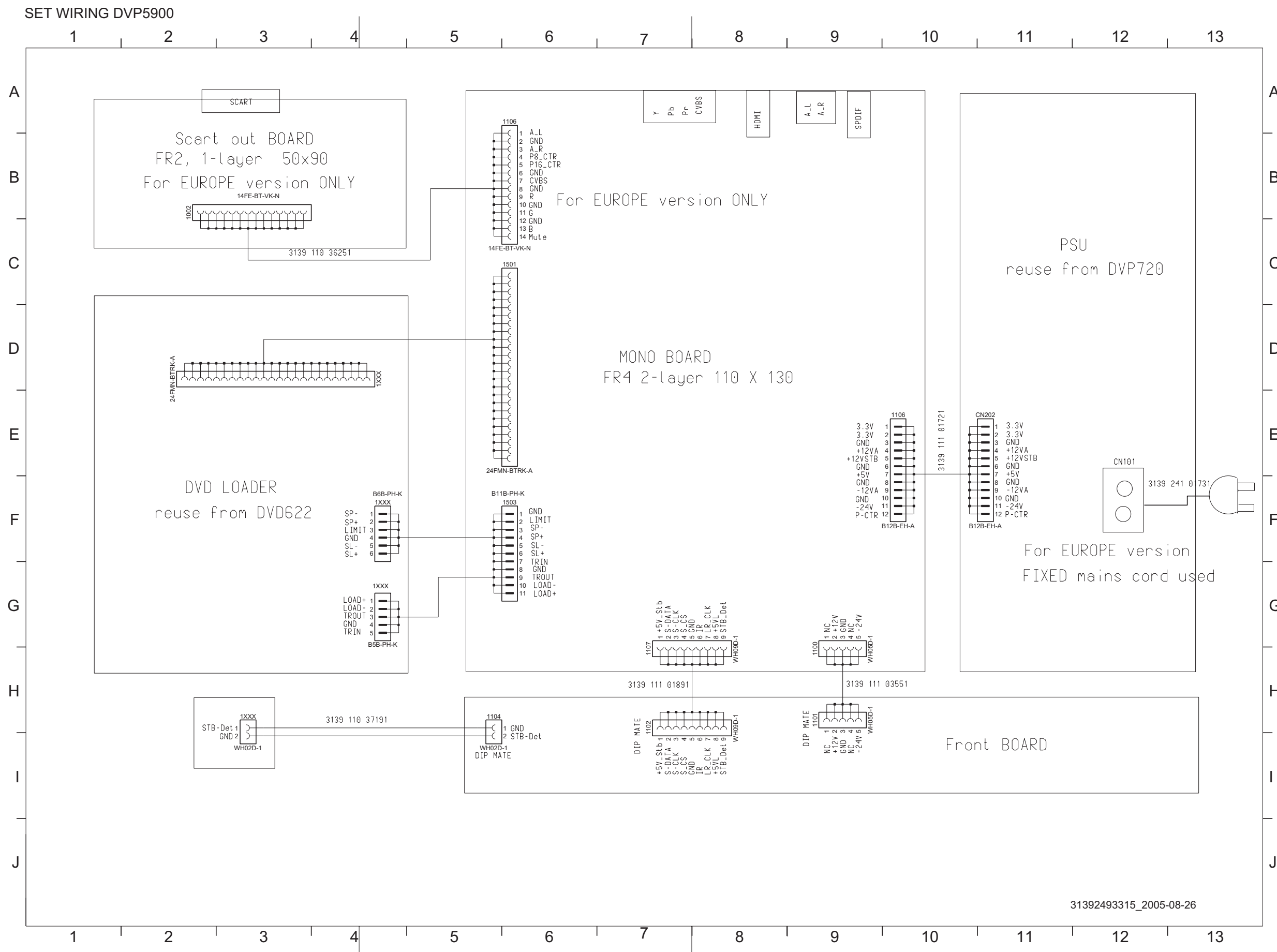
- Power up the set.
- Open tray by press and hold "STOP" button on the RC.
- Then press buttons <2> <5> <9> on the RC.
- The display shows 'TRA OFF' and the tray will close. Trade Mode is now disabled.

### 6. Block Diagram

#### Block Diagram DVP5900



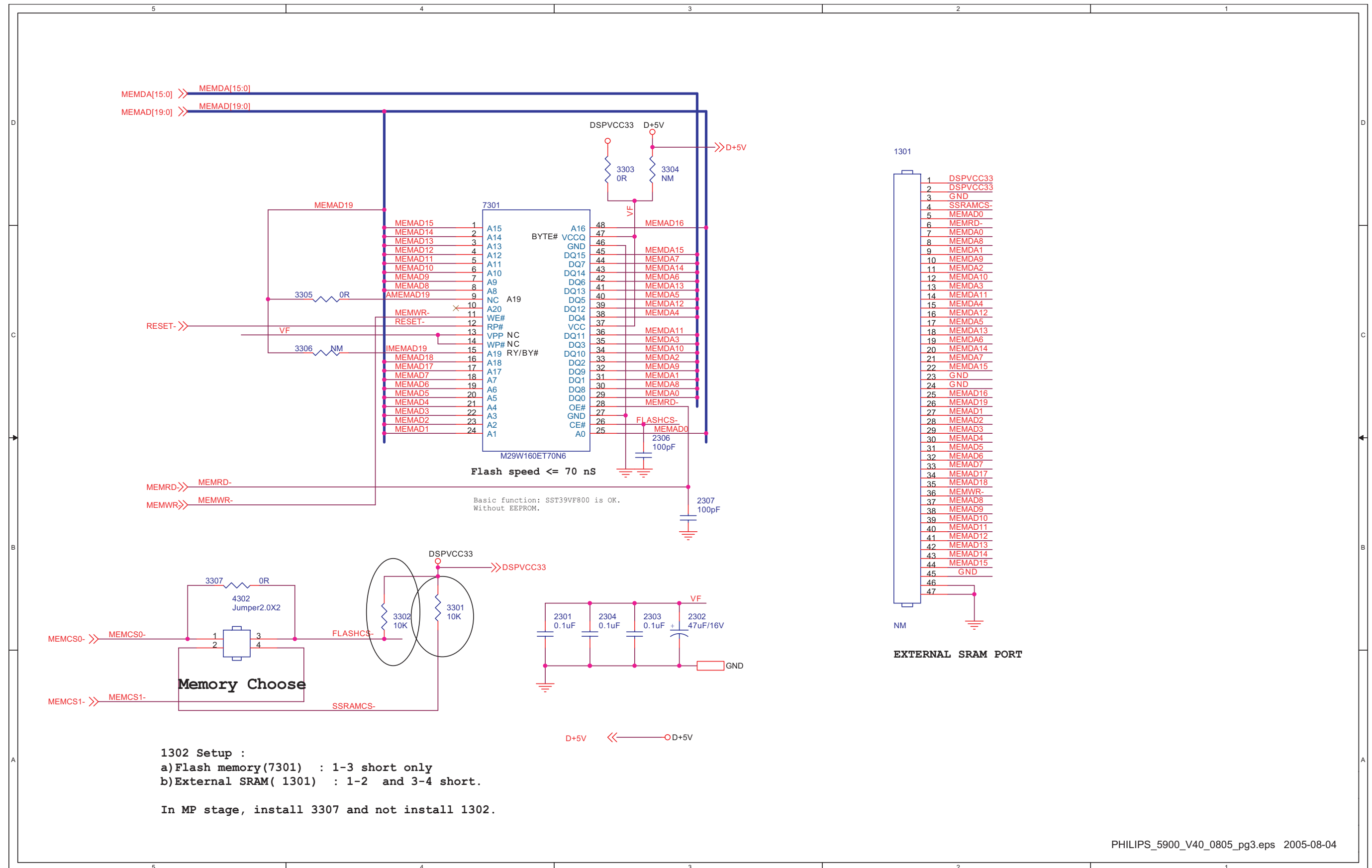
# Wiring Diagram





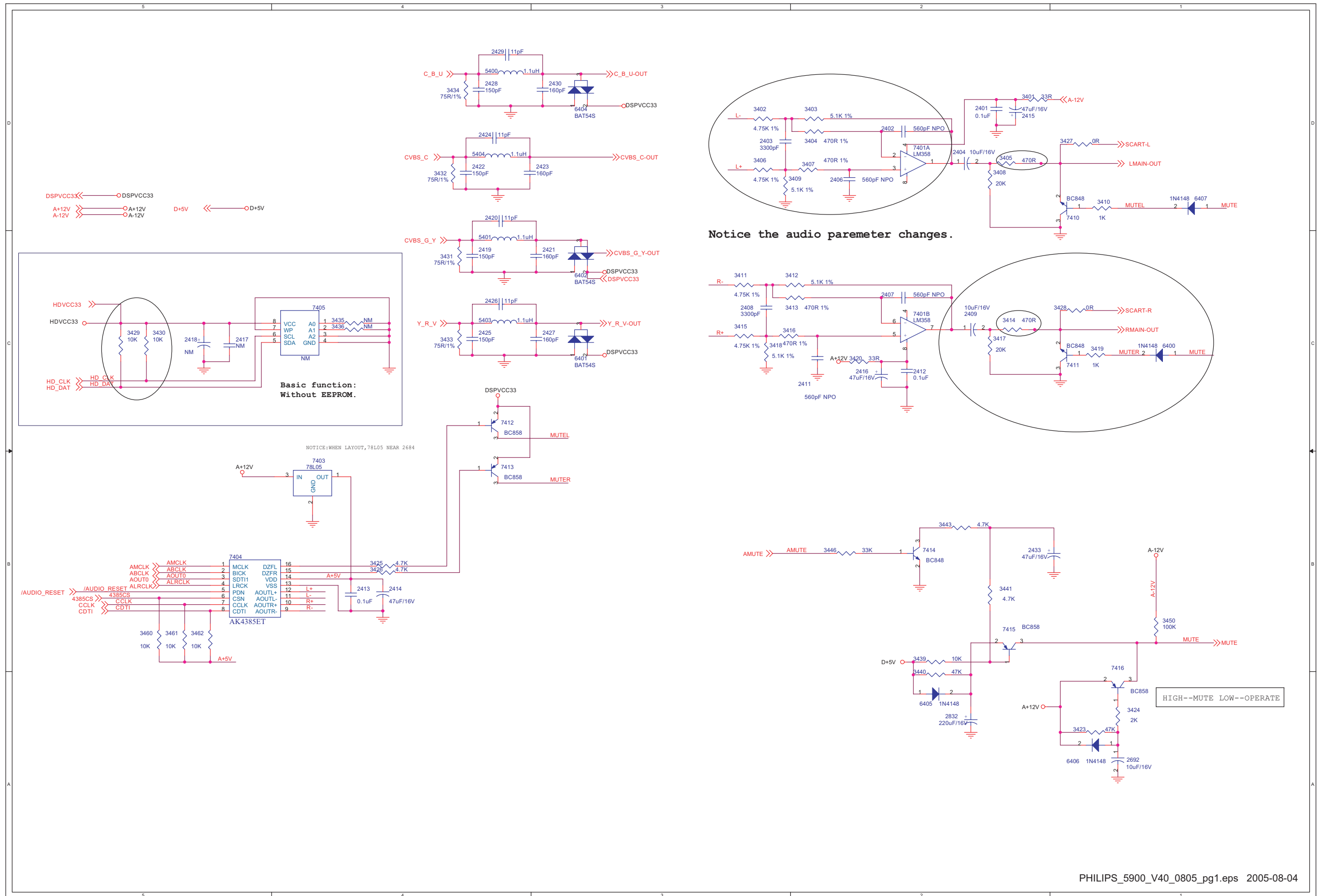


# Zoran Peak Design DVP5900 - Memory



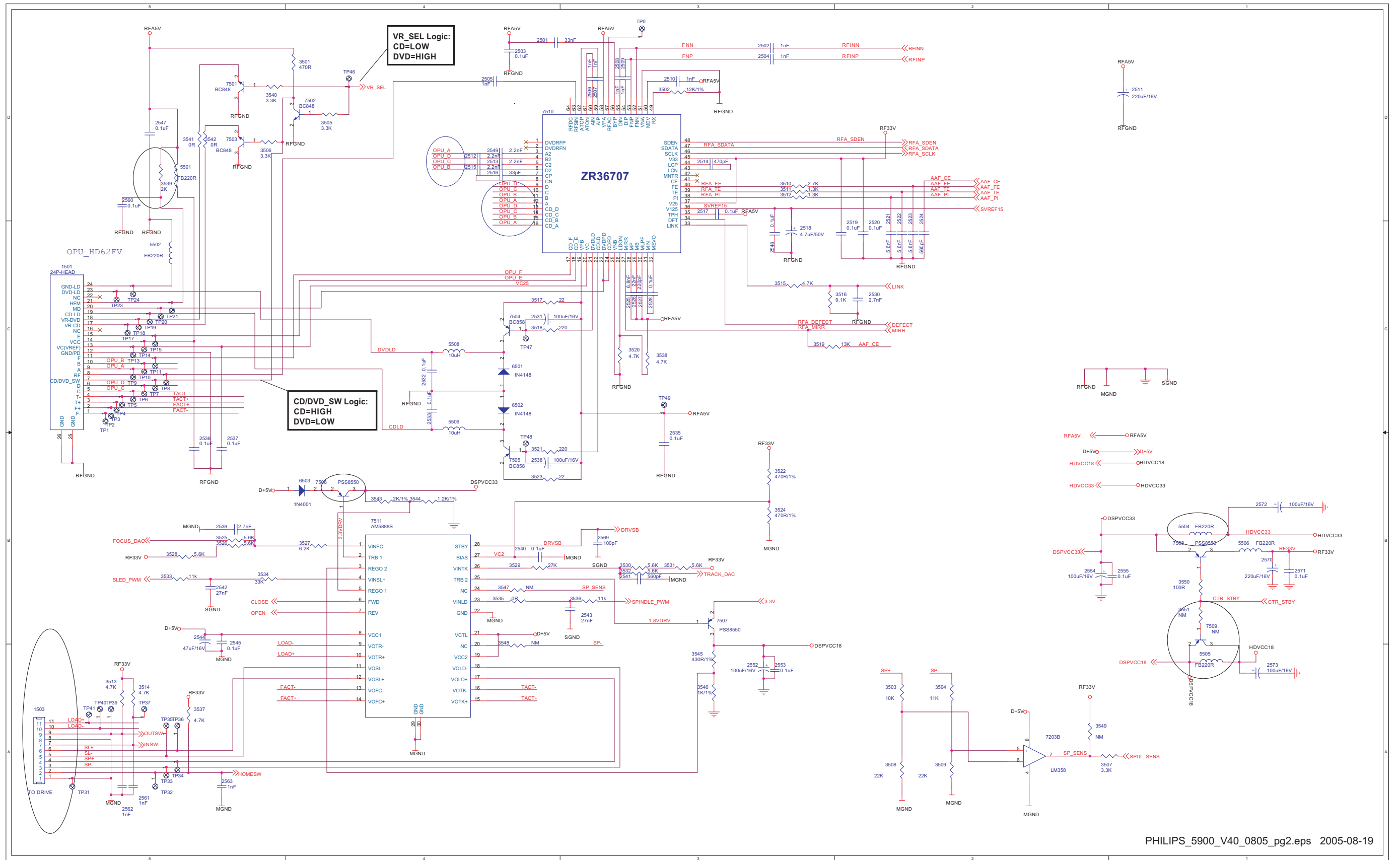


# Zoran Peak Design DVP5900 - Back End

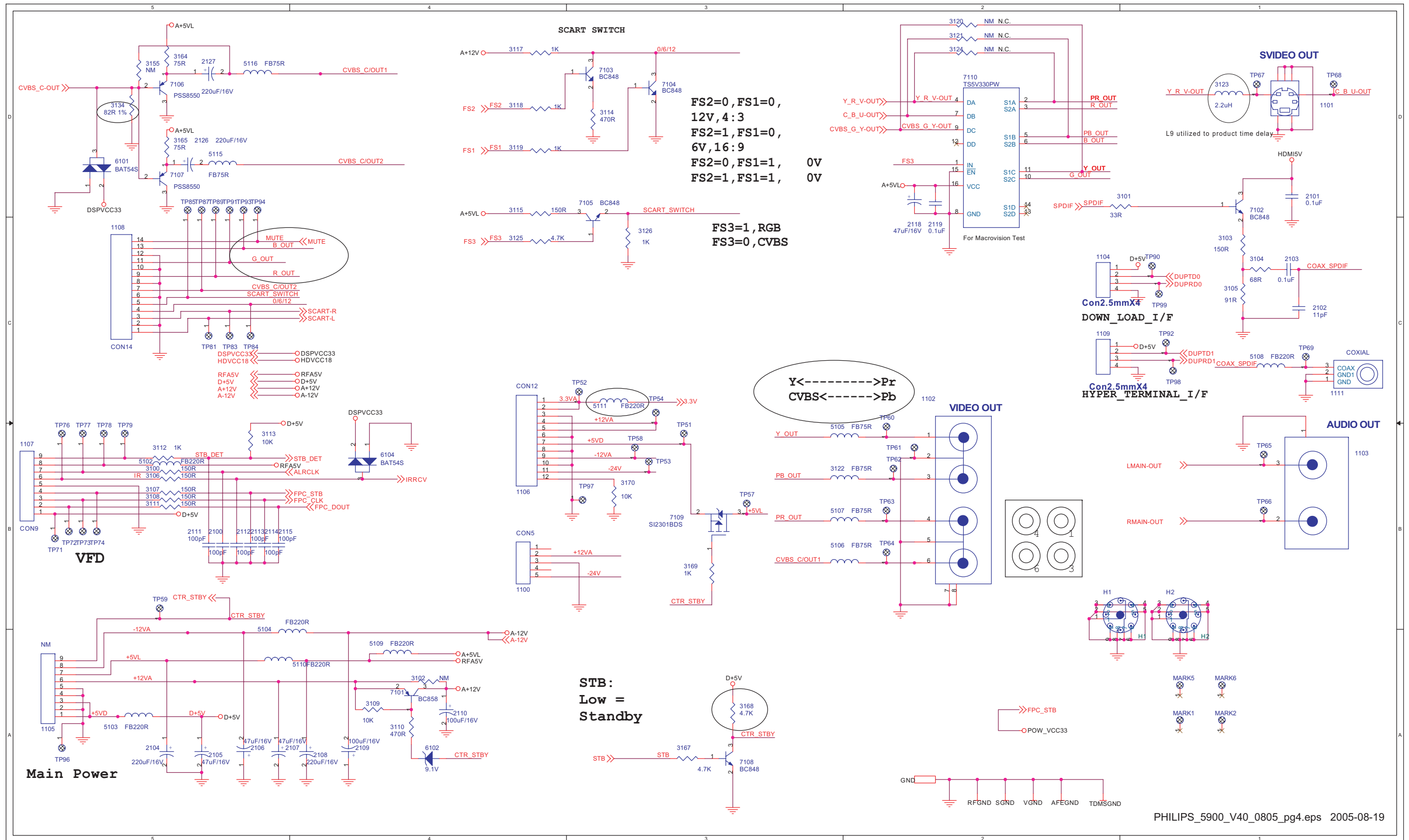


Notice the audio parameter changes.

# Zoran Peak Design DVP5900 - Front End

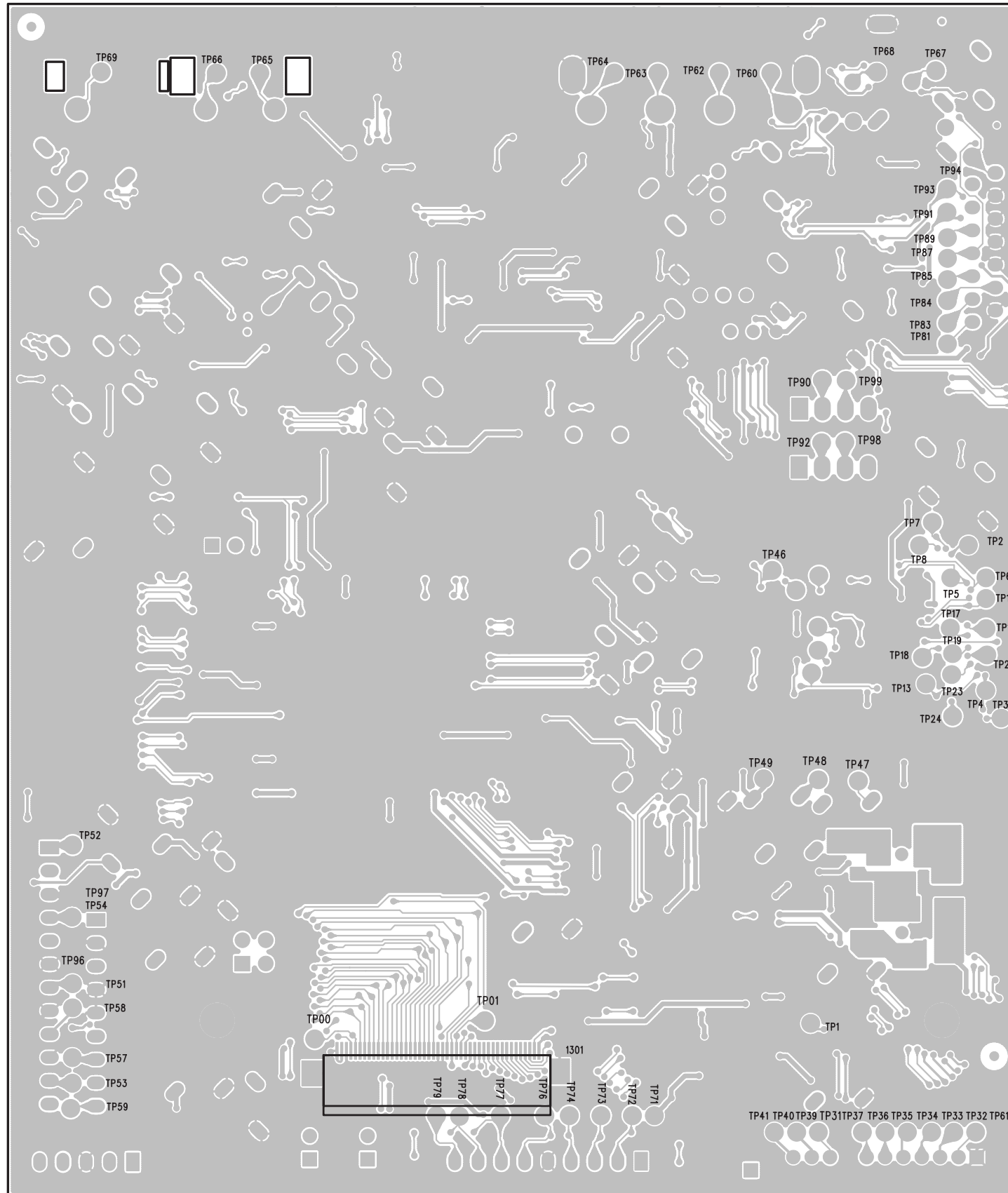


# Zoran Peak Design DVP5900 - Power and AV Output



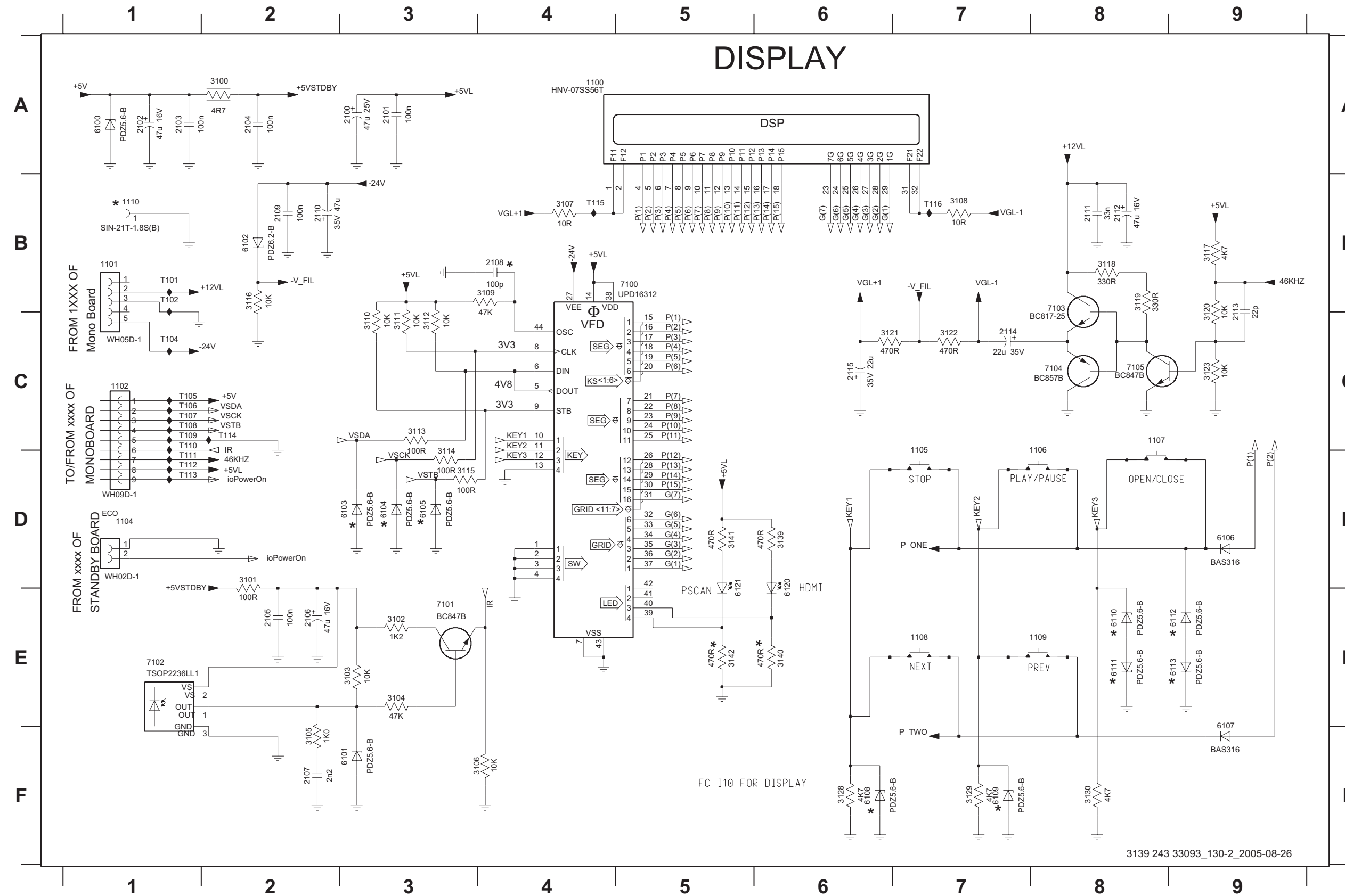


### Zoran Peak Design DVP5900 - Layout (Bottom View)



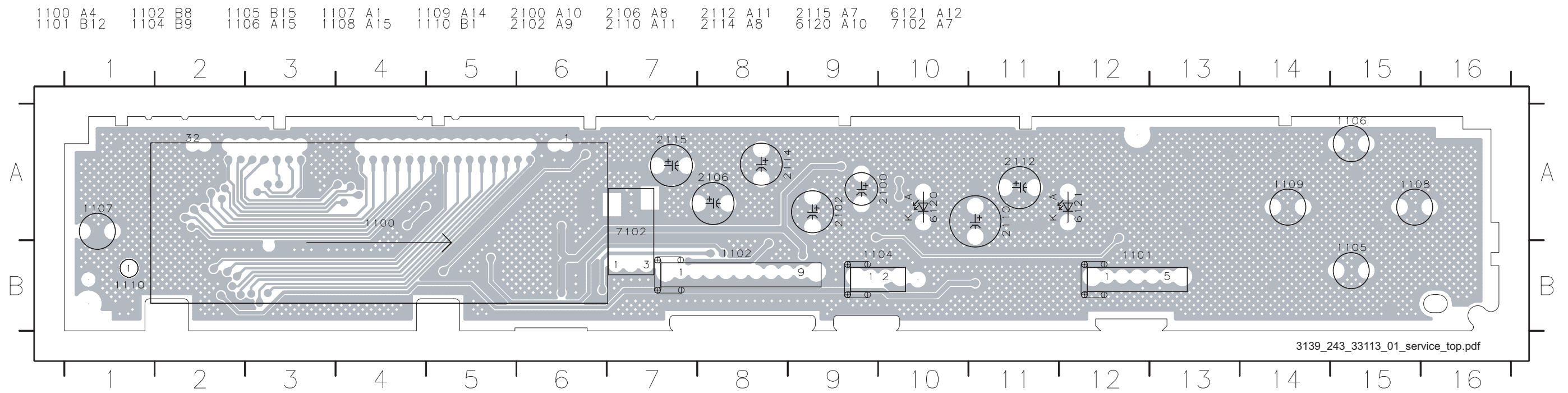


Front Board



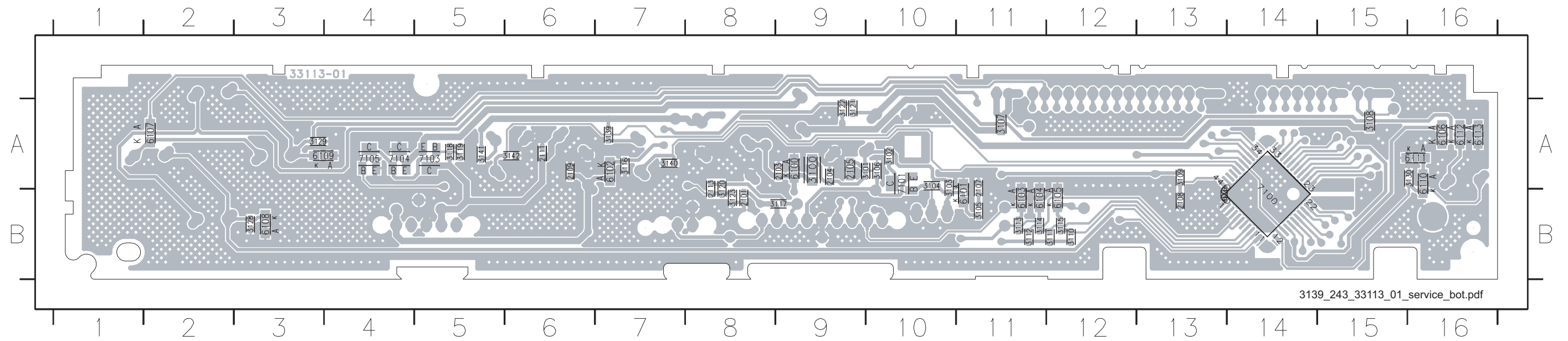
1100 A4	6121 D5
1101 B1	7100 B5
1102 C1	7101 E3
1104 D1	7102 E1
1105 D7	7103 B8
1106 D8	7104 C8
1107 C8	7105 C8
1108 E7	T101 B1
1109 E8	T102 B1
1110 B1	T104 C1
2100 A3	T105 C1
2101 A3	T106 C1
2102 A1	T107 C1
2103 A1	T108 C1
2104 A2	T109 C1
2105 E2	T110 C1
2106 E2	T111 D1
2107 F2	T112 D1
2108 B4	T113 D1
2109 B2	T114 C2
2110 B2	T115 B4
2111 B8	T116 B7
2112 B8	
2113 B9	
2114 C7	
2115 C6	
3100 A2	
3101 D2	
3102 E3	
3103 E3	
3104 E3	
3105 F2	
3106 F4	
3107 B4	
3108 B7	
3109 B4	
3110 C3	
3111 C3	
3112 C3	
3113 C3	
3114 D3	
3115 D3	
3116 B2	
3117 B9	
3118 B8	
3119 B8	
3120 B9	
3121 C6	
3122 C7	
3123 C9	
3128 F6	
3129 F7	
3130 F8	
3139 D6	
3140 E6	
3141 D5	
3142 E5	
6100 A1	
6101 F3	
6102 B2	
6103 D3	
6104 D3	
6105 D3	
6106 D9	
6107 F9	
6108 F6	
6109 F7	
6110 E8	
6111 E8	
6112 E9	
6113 E9	
6120 D6	

### Front Board - Layout (Top View)

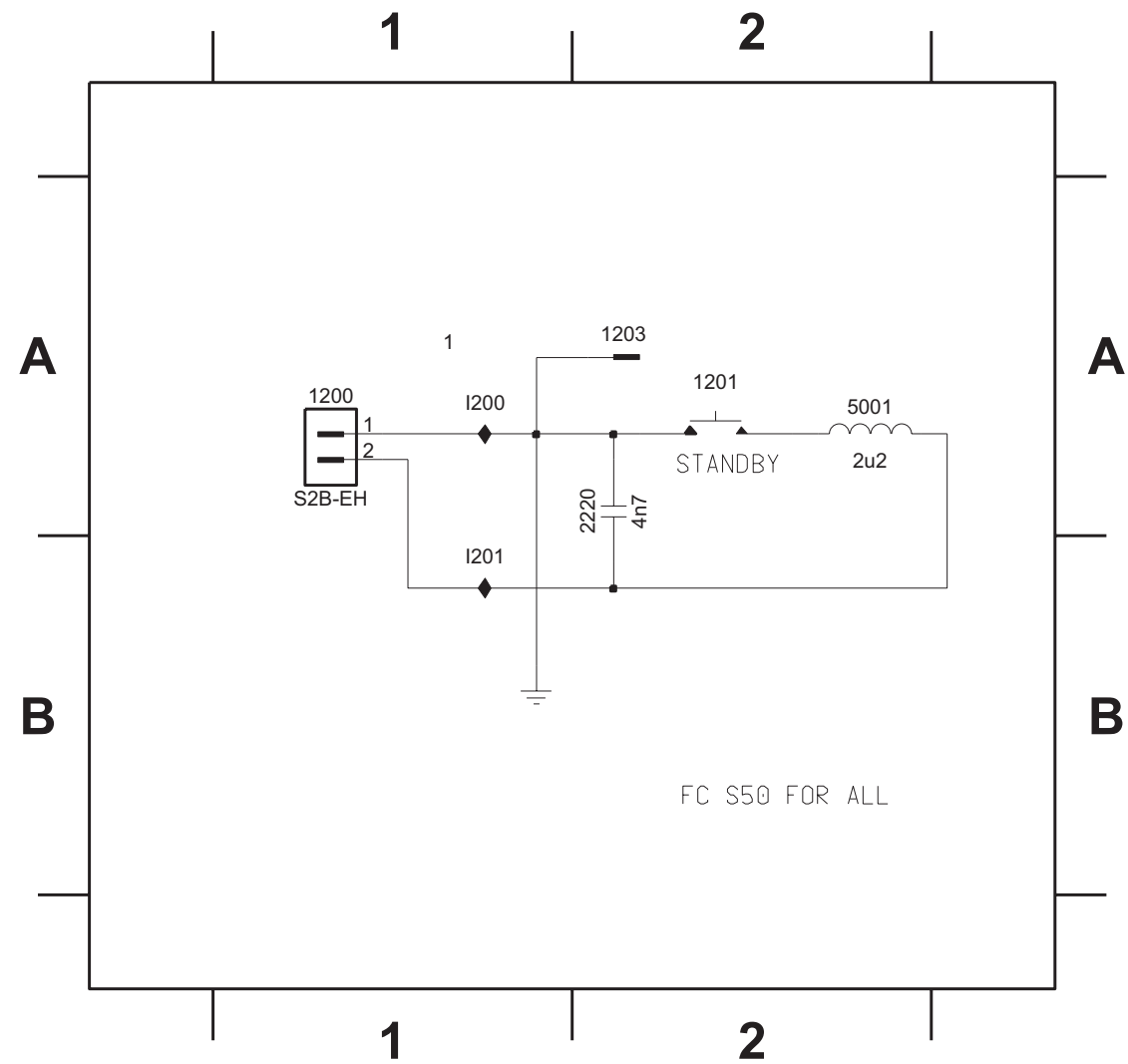


### Front Board - Layout (Bottom View)

2101 B8	2107 A11	2113 A8	3103 A10	3107 A11	3111 B12	3115 B12	3119 A5	3123 B8	3139 A7	6100 A9	6104 B11	6108 B3	6112 A16	7103 A5
2103 A9	2108 B13	3100 A9	3104 A10	3108 A15	3112 B11	3116 A7	3120 A8	3124 B8	3140 A7	6101 B11	6105 B12	6109 A3	6113 A16	7104 A4
2104 A9	2109 A6	3101 A9	3105 B11	3109 A15	3113 B11	3117 B9	3121 A9	3125 A3	3141 A5	6102 A7	6106 A16	6110 A16	7100 B14	7105 A4
2105 A9	2111 A6	3102 A10	3106 A10	3110 B12	3114 B11	3118 A5	3122 A9	3126 A16	3142 A6	6103 B11	6107 A2	6111 A16	7101 A10	



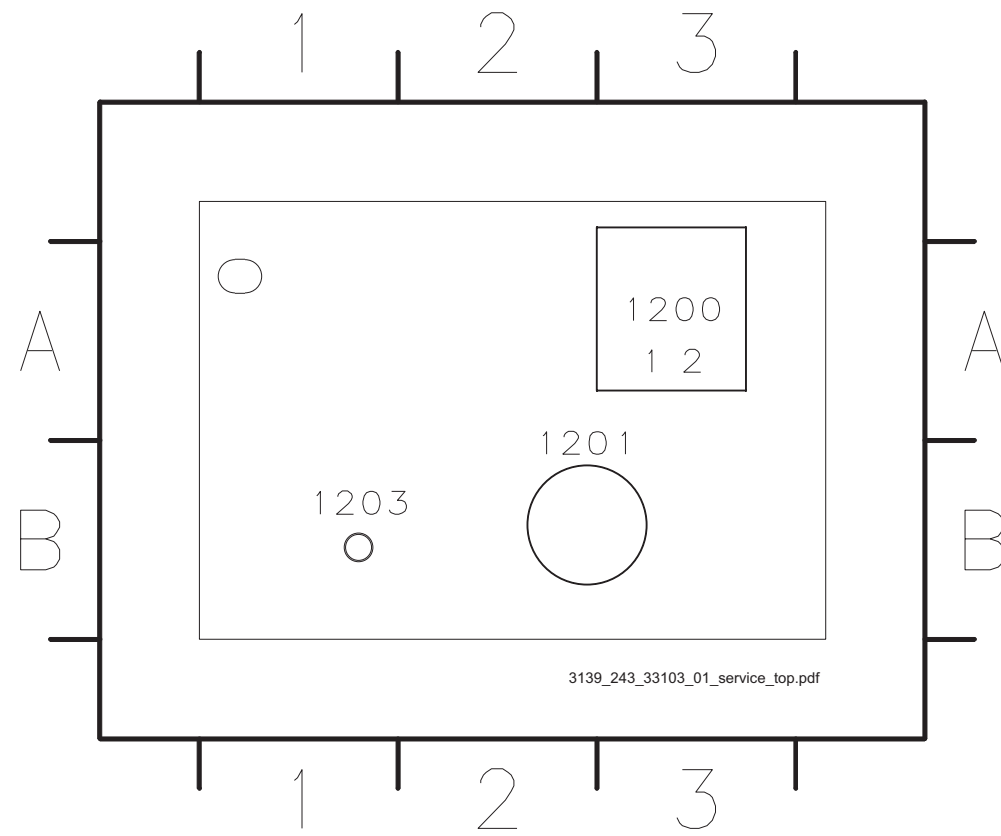
### Standby Board



- 1200 A1
- 1201 A2
- 1203 A2
- 2220 A2
- 5001 A2
- I200 A1
- I201 B1

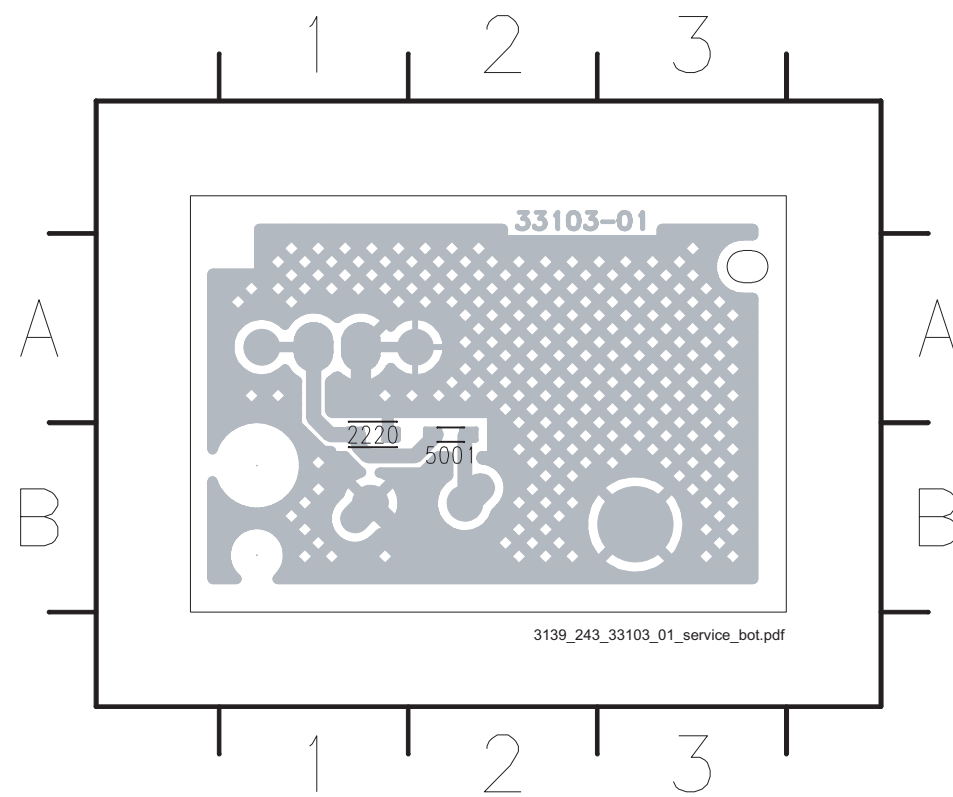
3139 243 33093\_130-1\_2005-08-26

### Standby Board - Layout (Top View)



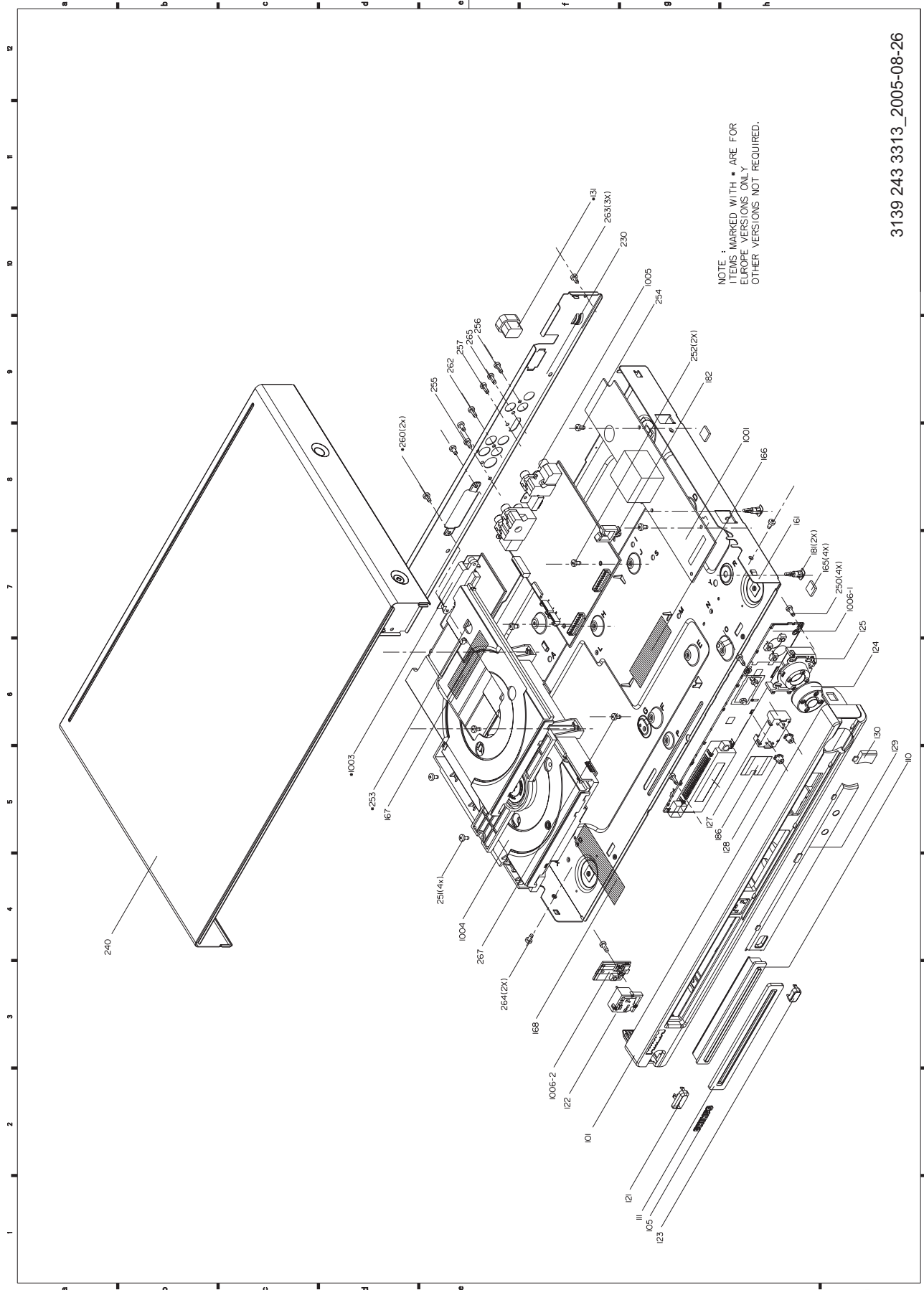
- 1200 A3
- 1201 B2
- 1203 B1

### Standby Board - Layout (Bottom View)



- 2220 B1
- 5001 B2

8. Exploded View of the Set



3139 243 3313\_2005-08-26

Figure 8-1

**DVP5900/93, /98 Only****MISCELLANEOUS**

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P001	3141 079 34291	FRONT ASSY DVP5900
P002	3141 079 34301	BOTTOM ASSY DVP5900/37
P003	3141 079 34321	DOOR TRAY ASSY DVP5900
0333	3141 017 90220	REMOTE CONTROL DVD-Q30/751 (For all stroke versions)
0336	2422 070 98151	△ MAINSCORD EUR 1M5 BK B (98 Only)
0336	2422 070 98257	△ MAINSCORD CHN 2A5 1M5 DET 2P B (93 Only)
1001	3139 248 72061	MODULE PSU DVD HE 2004 MIT
1004	3139 247 11091	MODULE LOADER ASA DM3421
1005	3139 248 86311	ZORAN PEAK DESIGN DVP5900
1006	3139 248 86331	FRONT PCBAS DVP5900