2. Safety Information, General Notes & Lead Free Requirements

2.1 Safety Instructions

2.1.1 General Safety

Safety regulations require that during a repair:
- Connect the unit to the mains via an isolation transformer.
- Replace safety components, indicated by the symbol ⚠, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that after a repair, you must return the unit in its original condition. Pay, in particular, attention to the following points:
- Route the wires/cables correctly, and fix them with the mounted cable clamps.
- Check the insulation of the mains lead for external damage.
- Check the electrical DC resistance between the mains plug and the secondary side:
  1. Unplug the mains cord, and connect a wire between the two pins of the mains plug.
  2. Set the mains switch to the 'on' position (keep the mains cord unplugged!).
  3. Measure the resistance value between the mains plug and the front panel, controls, and chassis bottom.
  4. Repair or correct unit when the resistance measurement is less than 1 MΩ.
  5. Verify this, before you return the unit to the customer/ user (ref. UL-standard no. 1492).
  6. Switch the unit 'off', and remove the wire between the two pins of the mains plug.

2.1.2 Laser Safety

This unit employs a laser. Only qualified service personnel may remove the cover, or attempt to service this device (due to possible eye injury).

Laser Device Unit

Type	:	Semiconductor laser GaAlAs
Wavelength	:	650 nm (DVD)
	:	780 nm (VCD/CD)
Output Power	:	20 mW (DVD+RW writing)
	:	0.8 mW (DVD reading)
	:	0.3 mW (VCD/CD reading)
Beam divergence	:	60 degree

Figure 2-1

Note: Use of controls or adjustments or performance of procedure other than those specified herein, may result in hazardous radiation exposure. Avoid direct exposure to beam.

2.2 Warnings

2.2.1 General

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD,). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are at the same potential as the mass of the set by a wristband with resistance. Keep components and tools at this same potential.
  Available ESD protection equipment:
  – Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
  – Wristband tester 4822 344 13999.
- Be careful during measurements in the live voltage section. The primary side of the power supply, including the heatsink, carries live mains voltage when you connect the player to the mains (even when the player is 'off'!). It is possible to touch copper tracks and/ or components in this unshielded primary area, when you service the player. Service personnel must take precautions to prevent touching this area or components in this area. A 'lightning stroke' and a stripe-marked printing on the printed wiring board, indicate the primary side of the power supply.
- Never replace modules, or components, while the unit is 'on'.

2.2.2 Laser

- The use of optical instruments with this product, will increase eye hazard.
- Only qualified service personnel may remove the cover or attempt to service this device, due to possible eye injury.
- Repair handling should take place as much as possible with a disc loaded inside the player.
- Text below is placed inside the unit, on the laser cover shield:

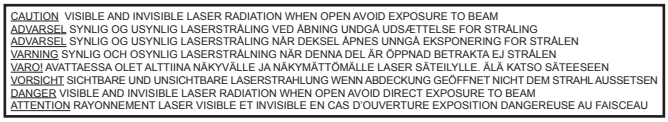


Figure 2-2

2.3 Lead Free Requirement

Information about Lead-free produced sets

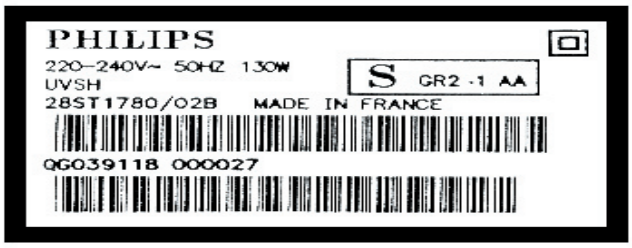
Philips CE is starting production of lead-free sets from 1.1.2005 onwards.

INDENTIFICATION:

Regardless of special logo (not always indicated) 

One must treat all sets from **1 Jan 2005** onwards, according next rules.

Example S/N:



Bottom line of typeplate gives a 14-digit S/N. Digit 5&6 is the year, digit 7&8 is the week number, so in this case 1991 wk 18

So from 0501 onwards = from 1 Jan 2005 onwards

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

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

- Use only lead-free solder alloy Philips SAC305 with order code 0622 149 00106. If lead-free solder-pate 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 leaded solder alloy / parts is possible but PHILIPS recommends strongly to avoid mixed solder alloy types (leaded and lead-free). If one cannot avoid or does not know whether product is lead-free, clean carefully the solder-joint from old solder alloy and re-solder with new solder alloy (SAC305).
- Use only original spare-parts listed in the Service-Manuals. Not listed standard-material (commodities) has to be purchased at external companies.
- Special information for BGA-ICs:
  - always use the 12nc-recognizable soldering temperature profile of the specific BGA (for de-soldering always use the lead-free temperature profile, in case of doubt)
  - lead free BGA-ICs will be delivered in so-called 'dry-packaging' (sealed pack including a silica gel pack) to protect the IC against moisture. After opening, dependent of MSL-level seen on indicator-label in the bag, the BGA-IC possibly still has to be baked dry. (MSL=Moisture Sensitivity Level). This will be communicated via AYS-website.
  Do not re-use BGAs at all.
- For sets produced before 1.1.2005 (except products of 2004), containing leaded solder-alloy and components, all needed spare-parts will be available till the end of the service-period. For repair of such sets nothing changes.
- On our website **www.atyourservice.ce.Philips.com** you find more information to:

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

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

For additional questions please contact your local repair-helpdesk.

1. Firmware Upgrading

1.1. Preparation to upgrade firmware

- Download the latest software release package.
- Extract the files from ZIP archive (Do not rename the filename).
- Start the CD Burning Software and create a new CD project (data disc) with the following settings:
  - File System: Joliet
  - Format: MODE 1
  - Recording Mode: SINGLE SESSION (TRACK-AT-ONCE), FINALIZE CD

Note: Long file name is necessary for the preparation of the upgrade disc.

- Place the extracted file into the root directory of the new CD project.
- Burn the data onto the CDRs or CD-RWs.

Notes: Burn **ALL** the extracted files onto a single blank CD-R or CD-RW disc for firmware upgrade

1.2. Procedures to apply the System Software Upgrade and Loader Software Upgrade

There are 2 upgrade processes supported:

- Normal Upgrade (Software Downgrade is NOT possible) and
- Forced Download (Software Downgrade is possible).

1.2.1. Normal Upgrade (All existing settings will remain the same after software upgrade)

- For normal upgrading, power up the set, open the tray, insert the upgrade disc, close the tray and follow the on screen instructions.
- VFD will show " *VERIFY -> ERASE -> UPGRADE* ".
- After upgrading the set, the Disc will be ejected.
- Remove the disc and close the tray.
- Then the set will go to standby.
- Waking up again from standby, the set will reboot from upgraded flash.

1.2.2. Forced Upgrade (All the settings will be reset to default /58 version)

Notes: After Forced Upgrade, the procedures described in 1.4 must be proceeded to restore the stroke version.

- Press and Hold **Rec** key on front Panel.
- Power ON the set
- VFD will show "*FRC DWLD"*
- Open the tray and insert the upgrade disc.
- Close the tray and the sets will start upgrading:-VFD will show " *VERIFY -> ERASE -> UPGRADE* "
- After upgrading the set, the Disc will be ejected.
- Disc tray remains open for 5 minutes and closes after time out without user action. Or, if the tray is closed by the user, then the set goes to standby and boots from upgraded flash. (Time out of 5 mins or user action, whichever is earlier, causes the set to go to standby.)

Note: Do not press any buttons or interrupt the mains supply during the upgrading process, otherwise the set may become defective.

1.3. How to read out the firmware version to confirm set has been upgraded

- Press "HOME" button on remote control and navigate to Settings -> Setup -> Version Info.
- Press the blue button on remote control for OSD to display the Detail Version Info:
- Figure 1 shows the version info displayed by DVDR5500 EU running 49.0a backend software and drive firmware is 51.05.02.17.

Figure 1 : Firmware Information shown by DVDR5500

1.4. Restore the Dynamic Stroke Version

It is important to restore the Dynamic Stroke version of the set before returning the repaired set back to the customer. Restoring this stroke version will ensure that the set is correctly set for the region.

Recorders are configured to a desired stroke version by entering a pre-defined RC key sequence.

The RC key sequence is made up of 2 parts: <XXXX> + <YY>, where <XXXX> refers to a platform and <YY> refers to the stroke version. Follow the steps below to change dynamic stroke versions:

- Close DVD tray with no disc
- Make sure the OSD to display the home menu.
- Enter the following RC sequence:
  - <5> <5> <0> <0> <0> <5> <OK> for /05
  - <5> <5> <0> <0> <3> <1> <OK> for /31
  - <5> <5> <0> <0> <5> <8> <OK> for /58
- While entering the RC sequence, the VFD will display the entered keys
- The VFD will display "*WRNGSTRK" if the incorrect sequence is entered.*
- If the correct RC sequence is entered and <OK> is pressed the VFD will dispaly "STROKEYY"
- Press standby button to go to standby mode or power off the mains to complete the process

Note:It is essential to standby or power off the set for the stroke version restoration to take effect. The set will then start in the Virgin Mode.

1. Mechanical Instructions

Note: The position numbers given here refers to the Exploded view in chapter 8.

1.1. Dismantling of the DVD Tray cover manually

1) Insert a screwdriver into the slot provided at the bottom of the set and push in the direction as shown in Figure1 to unlock before sliding the Tray cover 110 out.

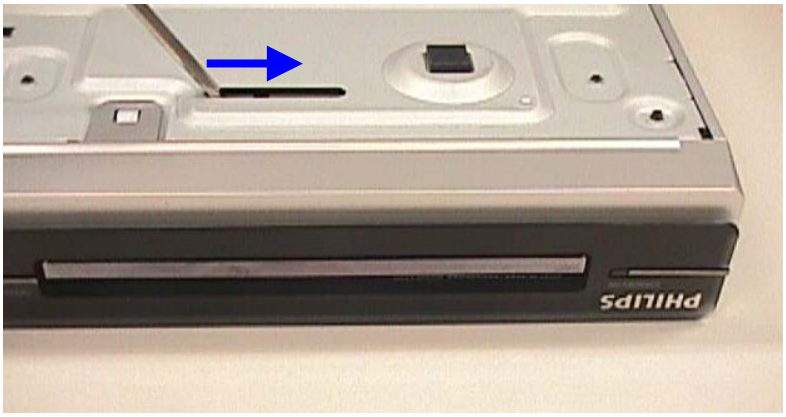


Figure 1- unlock the tray loader

2) Remove the Tray cover 110 as shown in Figure 2.

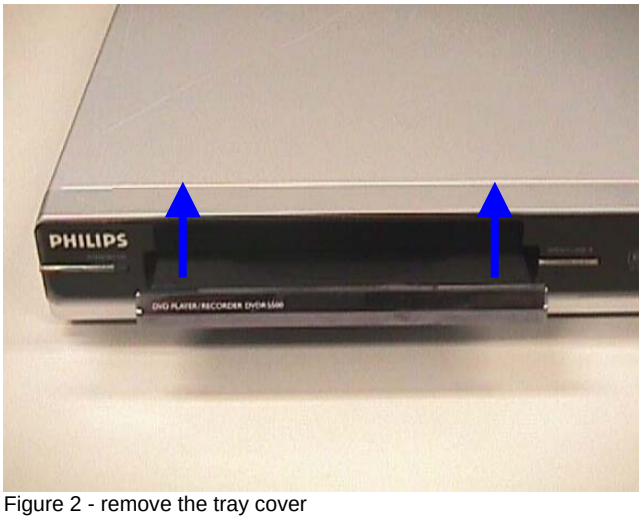


Figure 2 - remove the tray cover

1.2. Dismantling of the Front Panel

1) Remove 7 screws to loosen Top cover 240.
2) Remove the screws to detach the Front Panel and loosen the Front Loader Plate190 as shown in Figure 3. The Front Panel Service Position as shown in Figure 4.

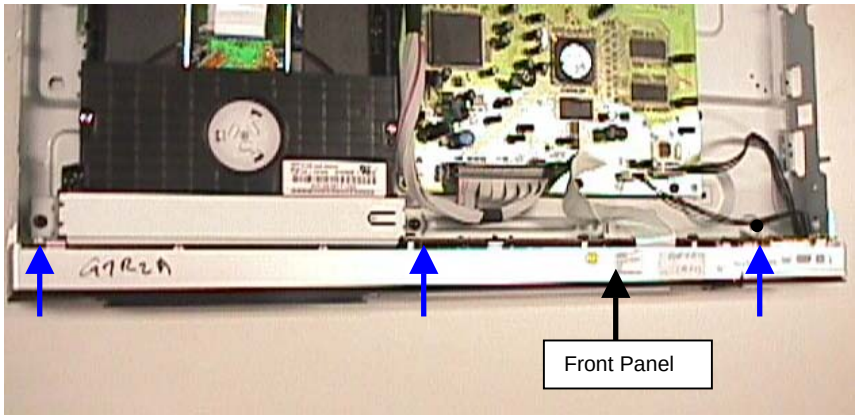


Figure 3 - detach the front panel

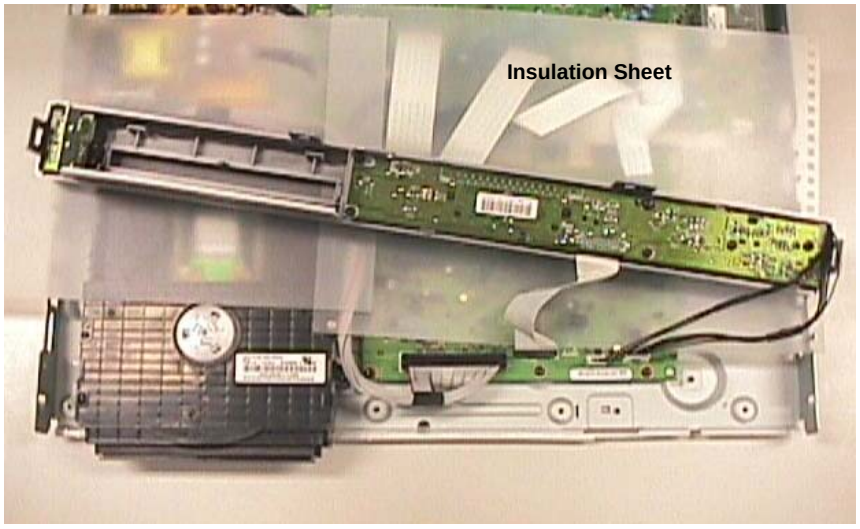


Figure 4 - Front Panel Service Position

1.3. Dismantling of the Basic Engine

1) To dismantle the Basic Engine without interference, it is necessary to detach the Front Panel together with the Plate Front Loader. Remove 4 mounting screw as shown in Figure 5 to detach the Basic Engine Assembly 1004 from the Frame 162.

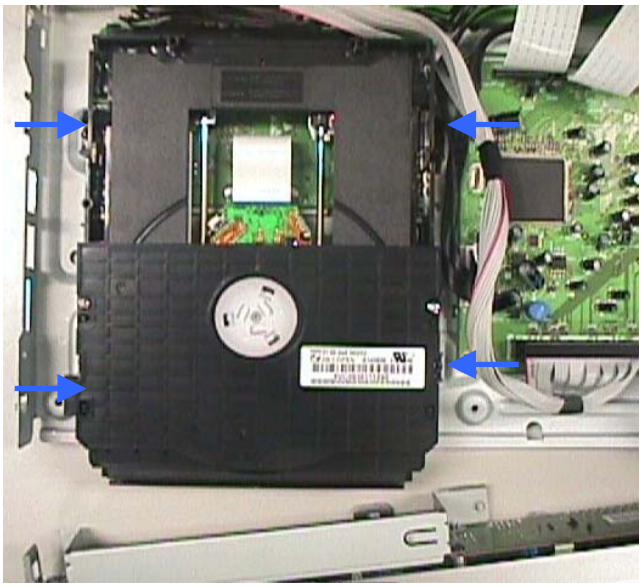


Figure 5 - Basic Engine mounting screw

2) Flip the Basic Engine over to remove 4 screws from the PCB protection plate. Service Position of the Basic Engine is shown in Figure 6.

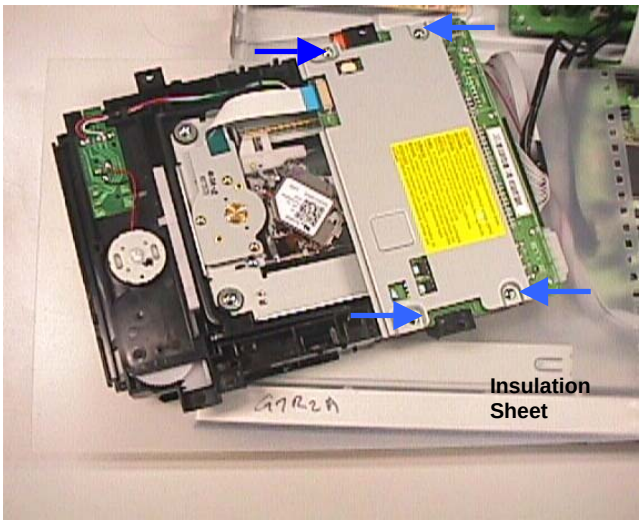


Figure 6 - Basic Engine Service Position

1.4. Dismantling of the PSU Board

1) Remove 3 screws and detach the PSU Board 1005 as shown in Figure 7.

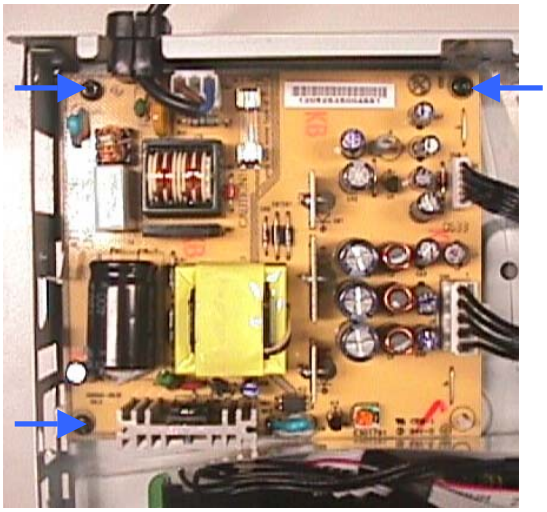


Figure 7 - PSU remove mounting screws

2) Service position for PSU Board is given in Figure 8.

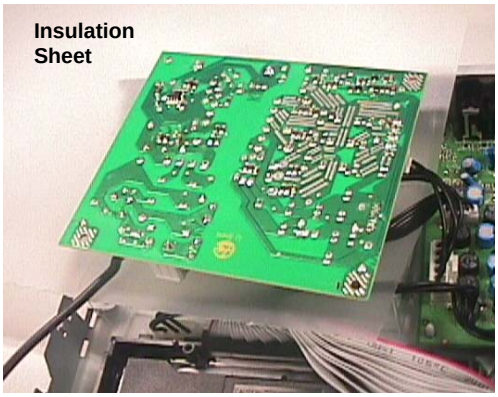


Figure 8 - PSU Board Service Position

1.5. Dismantling of the Digital Board

1) Remove 5 screws to loosen the Digital Board 1002 as shown in Figure 9.

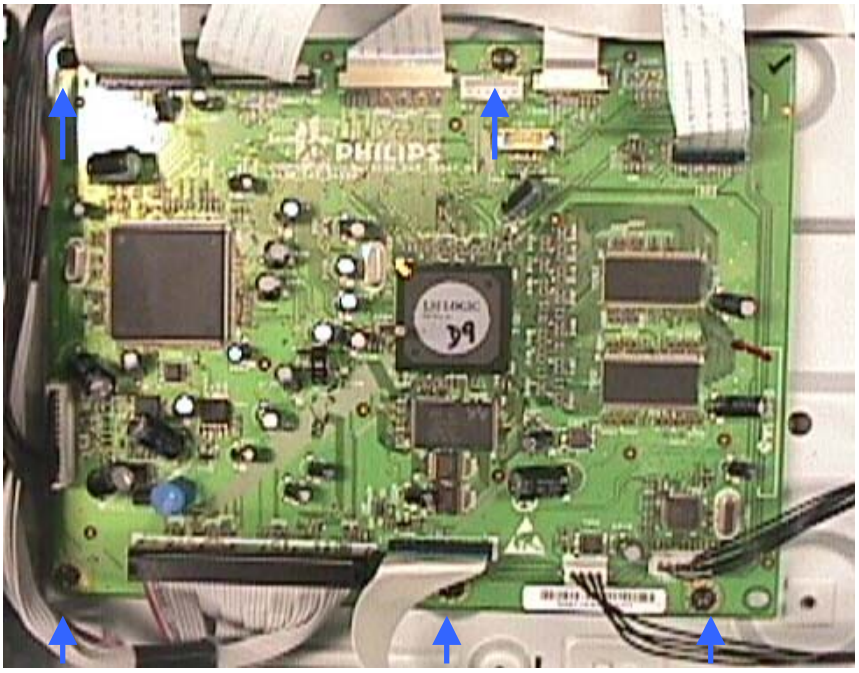


Figure 9 - Remove mounting screws for Digital Board

2) It is necessary to detach the Front Panel for Digital Board Service Position as shown in Figure 10.

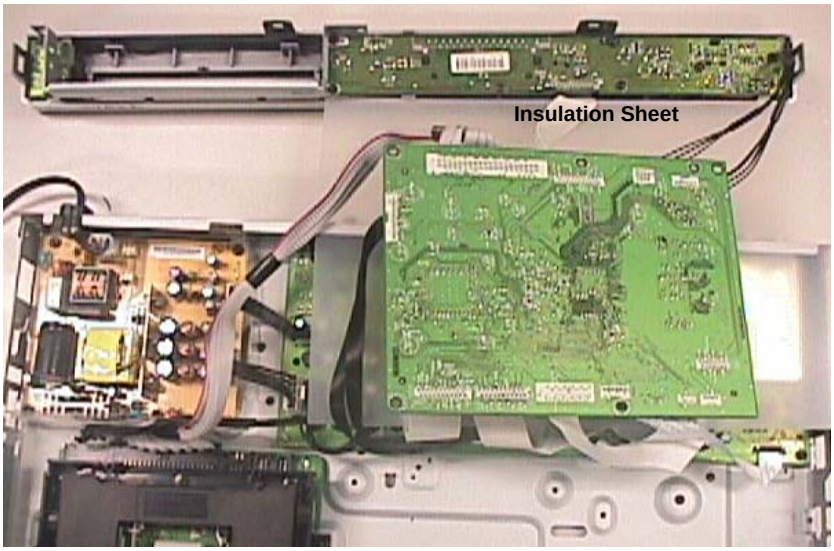


Figure 10 - Digital Board Service Position

1.6. Dismantling of the Analog Board

1) Remove screws from the Back Plate 230 to detach Analogue Board 1001.
Service position for Analogue Board is given in Figure 13.
Notes: Beware of short cable connections from the Analog Board to the PSU Board. Make sure them not to come out from the connectors of PSU Board while flipping over the Analog Board for servicing.

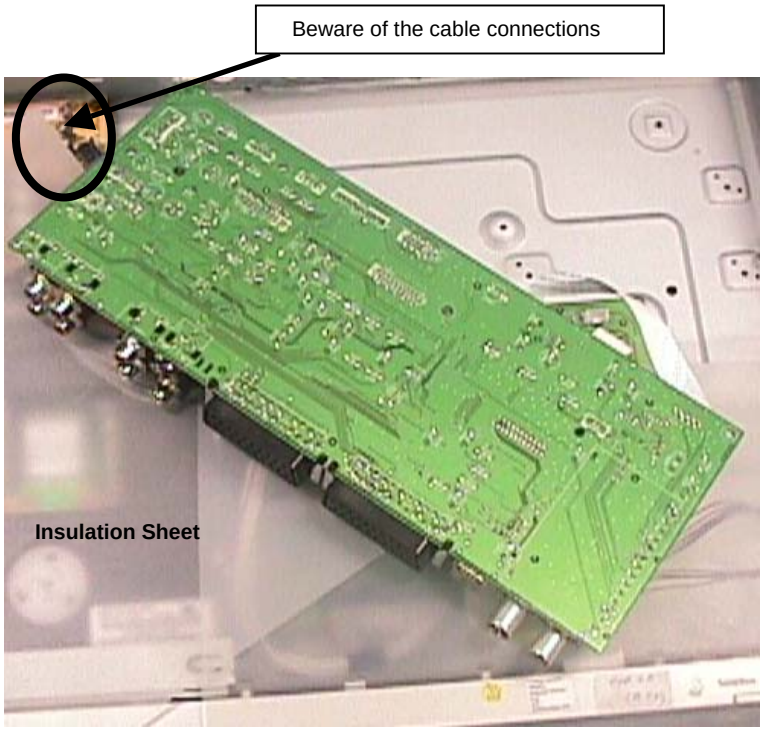
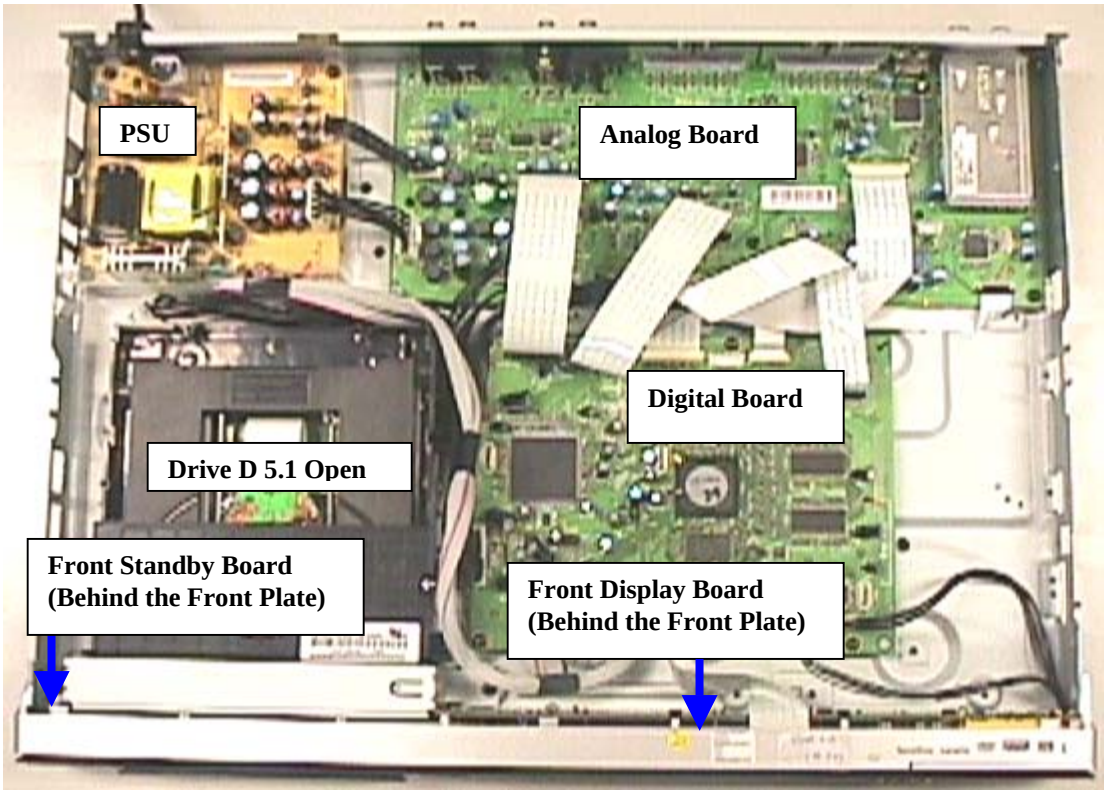


Figure 11 - Analogue Board Service Position

1. Technical Specifications and Connection Facilities

1.1. PCB Locations



1.2. General

Mains voltage:	220V-240V
Mains frequency:	~50 Hz
Power consumption:	23 W
Standby Power consumption:	<3.2W

1.3. Hybrid Tuner

1.3.1. Hybrid Tuner-Analogue TV

Test equipment: Fluke 54200 TV Signal generator
Test streams: PAL BG Philips Standard test pattern

1.3.1.1. System

B/G, I, L/L', D/K

1.3.1.2. RF – Loop Through:

Frequency range:	43 MHz – 860 M Hz
Gain (ANT IN – ANT OUT) without amplifier:	-4 dB ± 2 dB
Gain (ANT IN – ANT OUT) with amplifier:	From 2 dB + 3 dB until 2 dB – 2 dB

1.3.2. Receiver

Output of Euro connector/Cinch to be used for measurements (direct output from front end)

Video Performance:

Frequency response (0 - 4.4 MHz):	0 ± 4dB
Group delay (0 - 4.4 MHz):	0 ± 150 n sec
S/N Ratio (RF level = 70dBuV, BW = 5MHz, LPS = 200kHz, SC Trap = OFF)	≥ 45 dB

Audio Performance (Mono/German Stereo):

Frequency response (100 Hz – 12 kHz) relative to 1 kHz:	0 ± 3dB
S/N Ratio unweighted (20Hz – 20kHz):	≥ 45 dB
Total Harmonic distortion at 1kHz: FM± 25 kHz:	≤ 1.5 %
Total Harmonic distortion at 1kHz: AM: m = 54% (L/L'):	≤ 2 %

Audio Performance (NICAM Stereo/Dual)

Frequency response (40 Hz - 15 kHz): (Relative to 1 kHz)	0 ± 3dB
S/N Ratio unweighted (20Hz – 20kHz):	≥ 65 dB
Total Harmonic distortion at 1kHz:	≤ 0.5 %
Channel Separation:	≥ 45 dB

1.3.3. Tuning

Tuning Frequency Range:	45.25 MHz – 863.25 MHz
Antenna Level for 40dB luminance S/N unweighted at 75Ω:	≤ 40 dBµV (High End) ≤ 60 dBµV (Low End)

Automatic Search Tuning

Scanning time auto search without RF Signal:	3 minutes 30 seconds typical
Stop level (vision carrier):	≥ 40 dBµV
Maximum tuning error during operation (drift):	± 100 kHz

Tuning Principles:

Automatic system recognition (B/G, I, L/L', D/K)
Manual Selection in "Store" mode
Storage of frequencies at each random position number

1.3.4. Hybrid Tuner-DVB-T TV

1.3.4.1. DVB-T Tuning

Frequency range:	448-861MHz (/05 only) 49-861MHz (/31, /58 only)
Gain (Ant IN – Ant OUT):	-1dB to 3dB
Auto Search scanning time:	1 min 14 sec typical (without RF signal)

1.3.4.2. DVB – T - Video Decoding

Demultiplexing:	according ISO 13818-1 (MPEG standard)
Video bit rate:	up to 15 M bit/sec
Video format:	4:3, 16:9, 14:9
Resolution:	up to 720 pixels x 576 lines

1.3.4.3. DVB – T – Video Performance

DVB-T-RF antenna signal IN: Video Performance measured at Rear Cinch Video Out:

S/N(Unweighted,5MHz-BW limitation SC trap ON):	≥ 52dB
Frequency response 0.1 to 4.8MHz:	+1/-5dB
Y/Chroma delay:	≤ 55ns
2-T-K-factor:	≤ 2%

1.3.4.4. DVB – T – Audio Decoding

Audio decompression:	MPEG-1 & MPEG 2 Layer I and II
Audio modes:	Stereo, Dual

1.3.4.5. DVB-T-Audio Performance

DVB-T-RF antenna signal IN: Audio performance measured at Rear Cinch Audio Out:

S/N(A-weighted, 22kHz-BW limited) :	≥ 88dB
Frequency response 20Hz to 20kHz :	± 1dB
THD + Noise (at 1kHz) :	≥ 85dB
THD + noise (ratio) for 16Hz to 20kHz:	≥ 65dB
Channel Separation(at 1kHz) :	≥ 100dB

1.4. Analog Inputs/Outputs

1.4.1. SCART 1 (Connected to TV)

Pin	Signals:	
1	Audio-out R	1.8V RMS
2	Audio-in R	
3	Audio-out L	1.8V RMS
4	Audio GND	
5	Blue GND	
6	Audio- in L	
7	Blue-out	0.7Vpp ± 0.1V into 75 Ω
8	Function switch	< 2V = no signal or internal bypass 4.5V - 7V = asp. Ratio 16:9 DVD 9.5V - 12V = asp. Ratio 4:3 DVD
9	Green GND	
10	P50 control not use	
11	Green out	0.7Vpp ± 0.1V into 75 Ω
12	NC	
13	Red GND	
14	Fast switch GND	
15	Red-out	0.7Vpp ± 0.1V into 75 Ω
16	Fast switch RGB / CVBS or Y out	< 0.4V into 75W = CVBS 1V- 3V into 75W = RGB
17	CVBS GND OUT	
18	CVBS GND IN	
19	CVBS-out	1Vpp ± 0.1V into 75 Ω
20	CVBS-in	
21	Shield	

1.4.2. SCART 2 (Connected to AUX)

Pin	Signals:	
1	Audio-out R	1.8V RMS
2	Audio-in R	
3	Audio-out L	1.8V RMS
4	Audio GND	
5	Blue GND	
6	Audio-in L	
7	Blue-in	
8	Function switch	
9	Green GND	
10	NC	
11	Green-in	
12	NC	
13	Red GND	
14	Fast switch GND	
15	Red-in	
16	Fast switch RGB / CVBS or Y in	
17	CVBS-OUT GND	
18	CVBS in GND	
19	CVBS out	1Vpp ± 0.1V into 75Ω
20	CVBS in	
21	Shield	

1.4.3. Audio/Video Front Input Connectors

AUDIO – Cinch (L/R)

Input voltage:	2.2Vrms max
Input impedance:	> 10kΩ

CAM1 VIDEO – Cinch

Input voltage:	1Vpp ± 3dB
Input impedance:	75Ω

CAM1 S.VIDEO - Hosiden

According to IEC 933-5

Input Voltage Y:	1Vpp ± 3dB
Input Impedance Y:	75Ω
Input Voltage C:	300 mVpp ± 3dB
Input Impedance C:	75Ω

1.4.4. Audio/Video Output Connectors

AUDIO OUT – Cinch (L/R)

Output voltage:	2Vrms max.
Output impedance:	> 10kΩ

VIDEO (CVBS) – Cinch (VIDEO OUT)

Output Voltage:	1Vpp ± 3dB
Output impedance:	75Ω

S-VIDEO (Y/C) – Hosiden (VIDEO OUT)

According to IEC 933-5

Output Voltage Y:	1Vpp ± 3dB
Output Impedance Y:	75Ω
Output Voltage C:	300 mVpp ± 3dB
Output Impedance C:	75Ω

COMPONENT VIDEO OUT (Y/Pb/Pr) – Cinch

According to EIO-770-1-A, EIA-770-2-A

1.5. Digital Inputs/Outputs

1.5.1. CAM2 DV IN (IEEE 1394)

Implementation standard according:
IEEE Std 1394-1995
IEC61883 - Part1
IEC61883 - Part 2 SD-DVCR (02-01-1997)

Specification of consumer use digital VCR's using 6.3mm magnetic tape – dec.1994
Mechanical connection according to Annex of IEC 61883-1

1.5.2. USB

Compatibility:	USB 1.1
Type of connector:	Series A Connector

1.5.3. HDMI OUT

Compatibility:	HDMI version 1.1
Type of connector:	Type A connector (19 pins)

1.5.4. COAXIAL (DIGITAL OUT) – Cinch (Audio)

LPCM:	according IEC 60958
MPEG 1, MPEG 2, AC3:	according IEC 61937
DTS:	according IEC 61937 + addendum

1.6. Video Performance

1.6.1. SNR

PAL

RGB	CVBS	Y/C
≥ 55 dB	Lumincance: ≥ 55 dB	Y: ≥ 55 dB
	Chroma: ≥ 55 dB (AM) ≥ 52 dB (PM)	C: ≥ 57 dB (AM) ≥ 54 dB (PM)

NTSC

Y Pb Pr	CVBS	Y/C
≥ 55dB	Lumincance:≥ 55 dB	Y: ≥ 55 dB
	Chroma: ≥ 54 dB (AM) ≥ 54dB (PM)	C: ≥ 54 dB (AM) ≥ 54 dB (PM)

1.6.2. Bandwidth

PAL

RGB	CVBS	Y/C
0.5-4 MHz: +1dB/-2dB	0.5-4 MHz: +1dB/-2dB	Y: 4.8MHz-3dB
4.8 MHz: -3dB	4.8 MHz: -3dB	C: 700 kHz
5.8 MHz: -6dB	5.8 MHz: -6dB	

NTSC

YPbPr	CVBS	Y/C
4.2 MHz: -3dB	4.2 MHz: -3dB	Y: 4.2 MHz -3 dB
5.8 MHz: -6dB	5.8 MHz: -6dB	C: 700 kHz
With Pscan: 8.4MHz -3dB		

1.7. Audio Performance CDDA (PCM)

Cinch Output Rear

Output voltage 2 channel mode:	2Vrms ± 1dB
Channel unbalance (1kHz):	≤ |0.22| dB (0.05V)
Crosstalk 1kHz:	≥ |100| dB
Crosstalk 16Hz-20kHz:	≥ |90| dB
Frequency response:	≤ |0.2| dB
Frequency response with de-emphasis:	≤ |0.5| dB
Signal to noise ratio (unweighted):	≤ - 95 dB
Signal to noise ratio (A-weighted):	≤ - 100 dB
Signal to noise ratio (with automute):	≤ - 115 dB

Dynamic range 1kHz:	≥ |90| dB
Distortion and noise 1kHz:	≤ -85 dB
Distortion and noise 16Hz-20kHz:	≤ -85dB
Intermodulation distortion:	≤ 0.002 % (60 Hz and 7 kHz)
Intermodulation distortion:	≤ 0.002 % (-94 dB) (19 kHz and 20 kHz)
Phase Difference between channels:	1 sample
Phase non-linearity:	± 2°
Level non-linearity (-60dB to –90dB):	≤ |1.0| dB
Output polarity	7FFF (H) positive pulse at output 8000 (H) negative pulse at output
Mute:	≤ -95 dB (during spin-up, spin-down, pause and access)
Outband attenuation:	≤ -40 dB above 30 kHz

1.7.1. Scart Audio

Output voltage:	1.6Vrms ± 2dB
Channel unbalance 1kHz:	< 0.22dB
Crosstalk 1kHz:	> 85dB
Crosstalk 16Hz-20kHz:	> 70dB
Signal to noise ratio (unweighted):	> 80 dB (20Hz to 20kHz bandwidth limited)
Signal to noise ratio (A-weighted):	> 85 dB (RMS, 20Hz to 20kHz bandwidth limited)
Dynamic range 1kHz:	> 83 dB
Distortion and noise 1kHz:	> 80 dB
Distortion and noise 16Hz-20kHz:	> 75 dB

1.8. Dimension and Weight

Set Dimension W x H x D:	435 x 43 x 324.5 mm
Weight:	3.0 kg

1.9. Laser Output Power & Wavelength

1.9.1. DVD

Output power during reading:	1.0mW
Output power during writing:	69mW
Wavelength:	658nm (at 25 °C)

1.9.2. CD

Output power:	1.2mW
Wavelength:	783nm (at 25 °C)

1.10. Playability

Video Playback		
1	Playback Media: CD-R/CD-RW, DVD+R DL, DVD+R/+RW, DVD-R/-RW, DVD-Video, Video CD/SVCD	x
2	Compression Format: MPEG1, MPEG2, DivX 3.11, DivX 4.x, DivX 5.x, DivX 6.0, DivX Ultra	x
Audio Playback		
1	Playback Media: Audio CD, CD-R/RW, DVD+R DL, DVD+R/+RW, DVD-R/-RW, MP3-CD, MP3-DVD, WMA-CD, USB flash drive	x
2	Compression Format: Dolby Digital, MPEG2 Multichannel, MP3, PCM, WMA	x
3	MP3 bit rates: 64-384 kbps and VBR	x

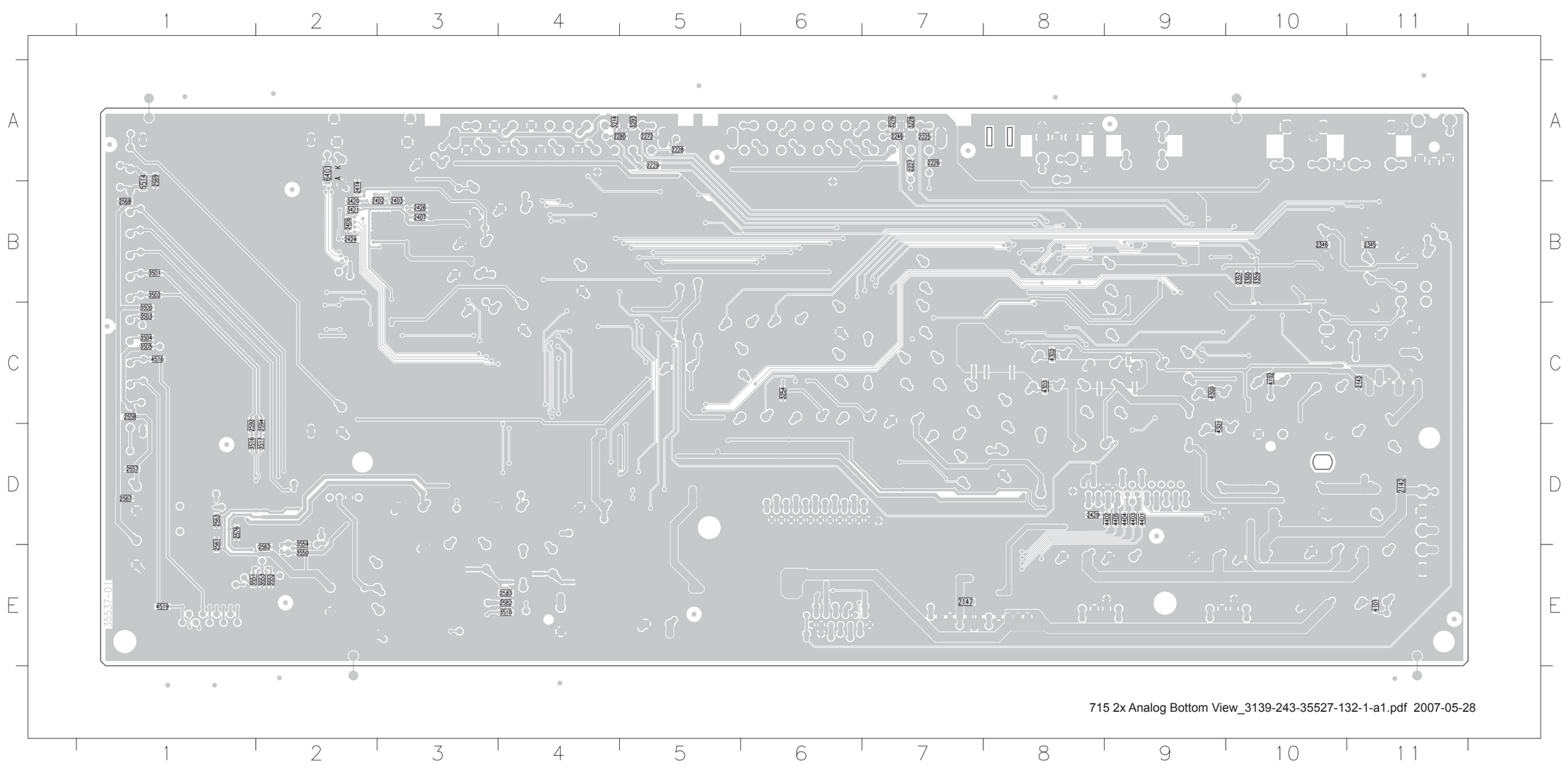
Still Picture Playback		
1	Playback Media: Picture CD, CD-R/RW, DVD+R DL, DVD+R/+RW, DVD-R/-RW, USB flash drive, USB Memory Card Reader	x
2	Picture Compression Format: JPEG	x
3	Picture Enhancement: Rotate, Zoom, Slideshow with music playback	x

1.11. Supported Disc Types and Media Speed for Recording

Disc	Media speeds
DVD+R	1x - 16x
DVD+RW	2.4x - 8x
DVD-R	1x - 16x
DVD-RW	2.4x – 6x
DVD+R DL	2.4x

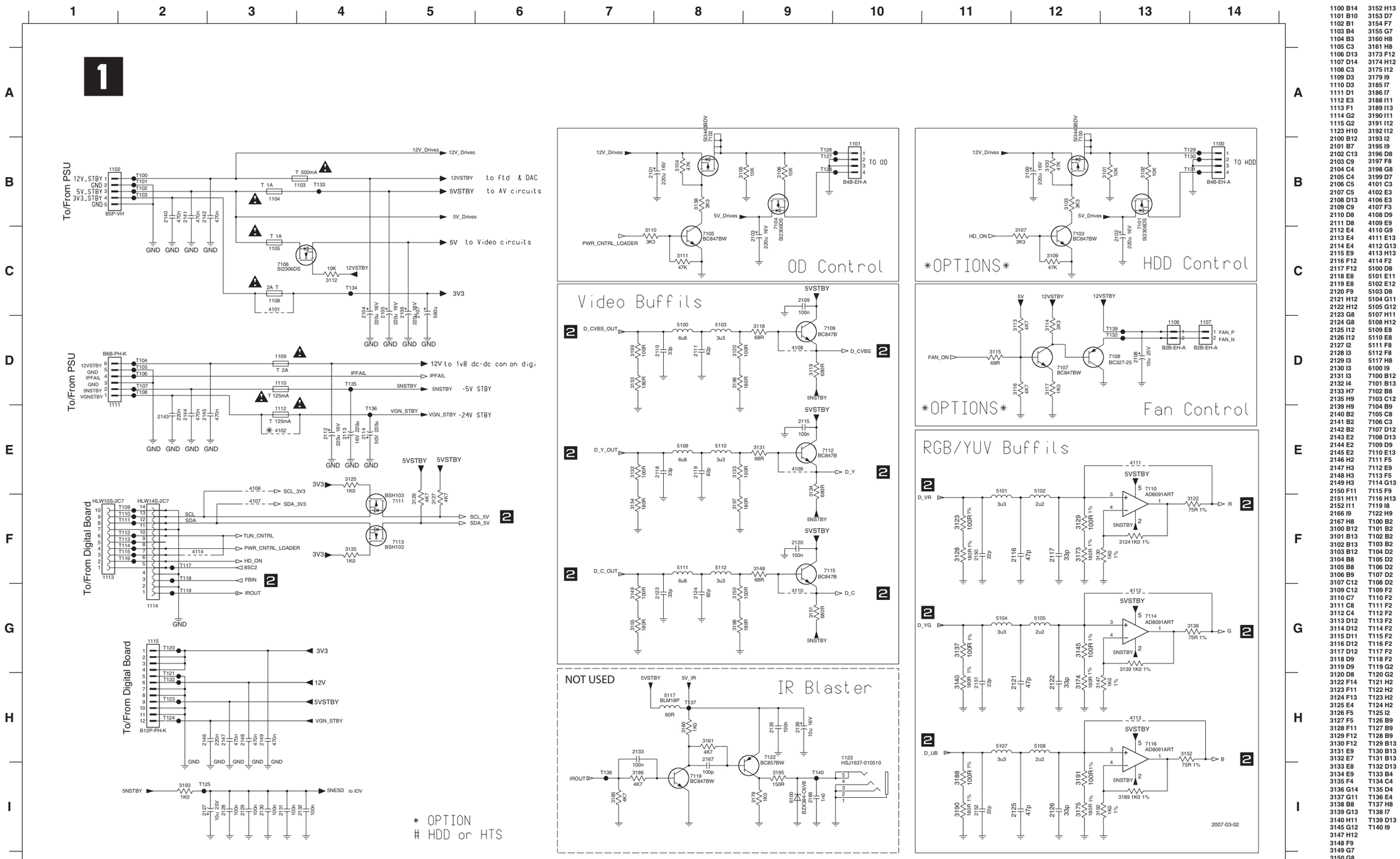
Layout: Analog (Bottom View)

2142 D11 2143 C11 2147 E7 2225 A7 2226 A7 2227 A7 2228 A5 2229 A5 2246 A7 2272 A5 2280 A5 2345 B11 2346 B10 2357 B10 2402 B3 2403 B3 2406 B2 2407 B3 2414 B2 2424 B2 2426 B3 2429 D8 2557 D1 2558 C1 2561 E1 2562 E2 2563 D1 2567 D1 2568 B1 2569 A1 2576 D1 2582 E4 2583 E4 2592 D1 2594 D2 3214 A4 3228 A7 3254 C6 3276 A7 3293 A5 3359 B10 3360 B10 3420 B2 3421 B2 3500 C1 3501 B1 3502 B1 3503 C1 3504 C1 3505 C1 3510 E4 3516 D1 3517 D2 3550 E2 3551 E1 3552 E2 3553 E2 3554 D2 4101 E11 4102 C10 4300 C9 4301 D9 4302 C8 4303 D9 4401 D9 4402 D9 4403 D9 4404 D9 4405 D9 4516 C1 4519 B1 5514 B1 6401 A2



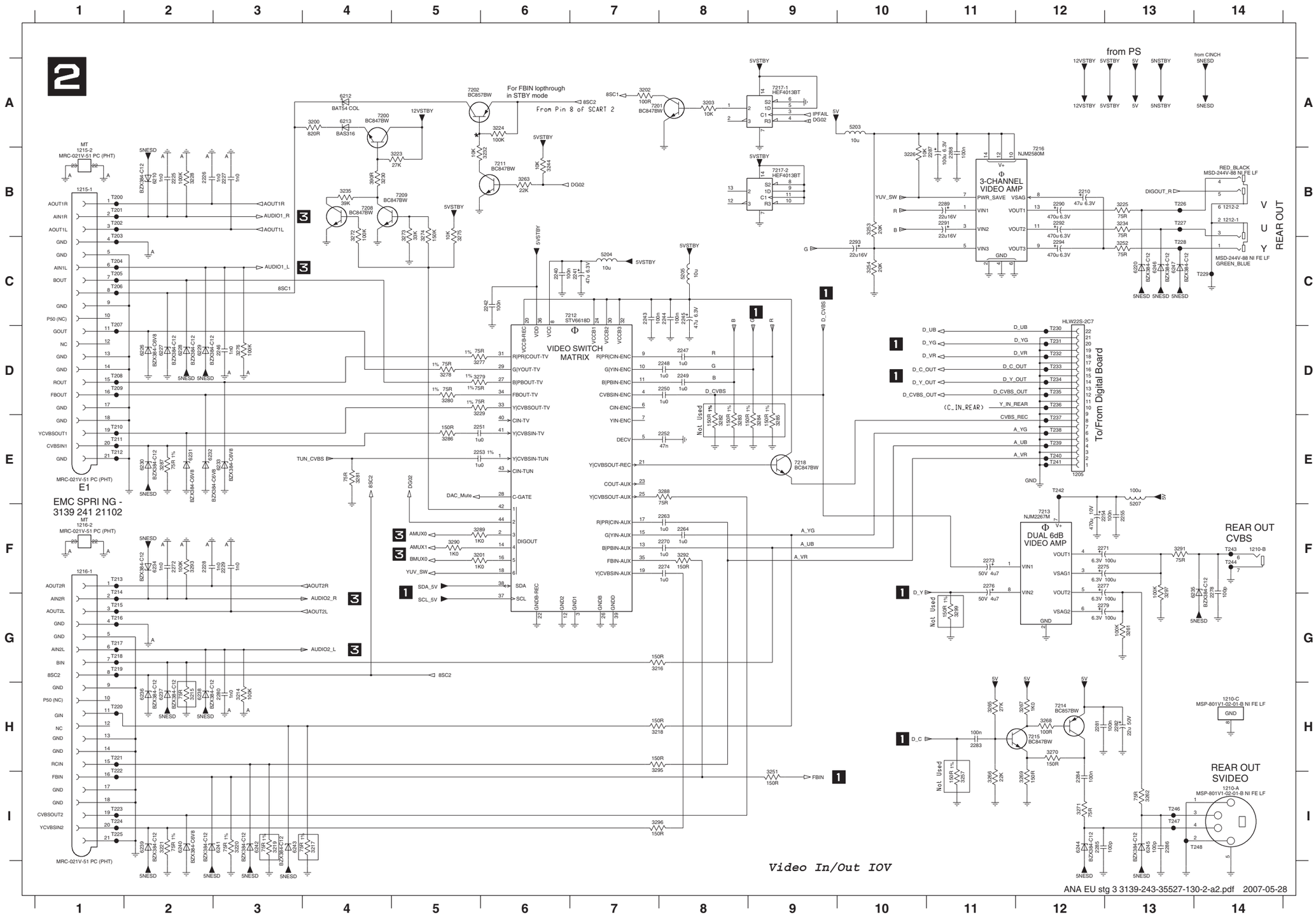
715 2x Analog Bottom View_3139-243-35527-132-1-a1.pdf 2007-05-28

Analog: PSU & COM



1100 B14	3152 H13	
1101 B10	3153 D7	
1102 B1	3154 F7	
1103 B4	3155 G7	
1104 B3	3160 H8	
1105 C3	3161 H8	
1106 D13	3173 F12	
1107 D14	3174 H12	
1108 C3	3175 I12	
1109 D3	3179 I9	
1110 D3	3185 I7	
1111 D1	3186 I7	
1112 E3	3188 I11	
1113 F1	3189 I13	
1114 G2	3190 I11	
1115 G2	3191 I12	
1123 H10	3192 I12	
2100 B12	3193 I2	
2101 B7	3195 I9	
2102 C13	3196 D8	
2103 C9	3197 F8	
2104 C4	3198 G8	
2105 C4	3199 D7	
2106 C5	4101 C3	
2107 C5	4102 E3	
2108 D13	4106 E3	
2109 C9	4107 F3	
2110 D8	4108 D9	
2111 D8	4109 E9	
2112 E4	4110 G9	
2113 E4	4111 E13	
2114 E4	4112 G13	
2115 E9	4113 H13	
2116 F12	4114 F2	
2117 F12	5100 D8	
2118 E8	5101 E11	
2119 E8	5102 E12	
2120 F9	5103 D8	
2121 H12	5104 G11	
2122 H12	5105 G12	
2123 G8	5107 H11	
2124 G8	5108 H12	
2125 I12	5109 E8	
2126 I12	5110 E8	
2127 I2	5111 F8	
2128 I3	5112 F8	
2129 I3	5117 H8	
2130 I3	6100 I9	
2131 I3	7100 B12	
2132 I4	7101 B13	
2133 H7	7102 B8	
2135 H9	7103 C12	
2139 H9	7104 B9	
2140 B2	7105 C8	
2141 B2	7106 C3	
2142 B2	7107 D12	
2143 E2	7108 D13	
2144 E2	7109 D9	
2145 E2	7110 E13	
2146 H2	7111 F5	
2147 H3	7112 E9	
2148 H3	7113 F5	
2149 H3	7114 G13	
2150 F11	7115 F9	
2151 H11	7116 H13	
2152 I11	7119 I8	
2166 I9	7122 H9	
2167 H8	T100 B2	
3100 B12	T101 B2	
3101 B13	T102 B2	
3102 B13	T103 B2	
3103 B12	T104 D2	
3104 B8	T105 D2	
3105 B8	T106 D2	
3106 B9	T107 D2	
3107 C12	T108 D2	
3109 C12	T109 F2	
3110 C7	T110 F2	
3111 C8	T111 F2	
3112 C4	T112 F2	
3113 D12	T113 F2	
3114 D12	T114 F2	
3115 D11	T115 F2	
3116 D12	T116 F2	
3117 D12	T117 F2	
3118 D9	T118 F2	
3119 D9	T119 G2	
3120 D8	T120 G2	
3122 F14	T121 H2	
3123 F11	T122 H2	
3124 F13	T123 H2	
3125 E4	T124 H2	
3126 F5	T125 I2	
3127 F5	T126 B9	
3128 F11	T127 B9	
3129 F12	T128 B9	
3130 F12	T129 B13	
3131 E9	T130 B13	
3132 E7	T131 B13	
3133 E8	T132 D13	
3134 E9	T133 B4	
3135 F4	T134 C4	
3136 G14	T135 D4	
3137 G11	T136 E4	
3138 B8	T137 H8	
3139 G13	T138 I7	
3140 H11	T139 D13	
3145 G12	T140 I9	
3147 H12		
3148 F9		
3149 G7		
3150 G8		
3151 G9		

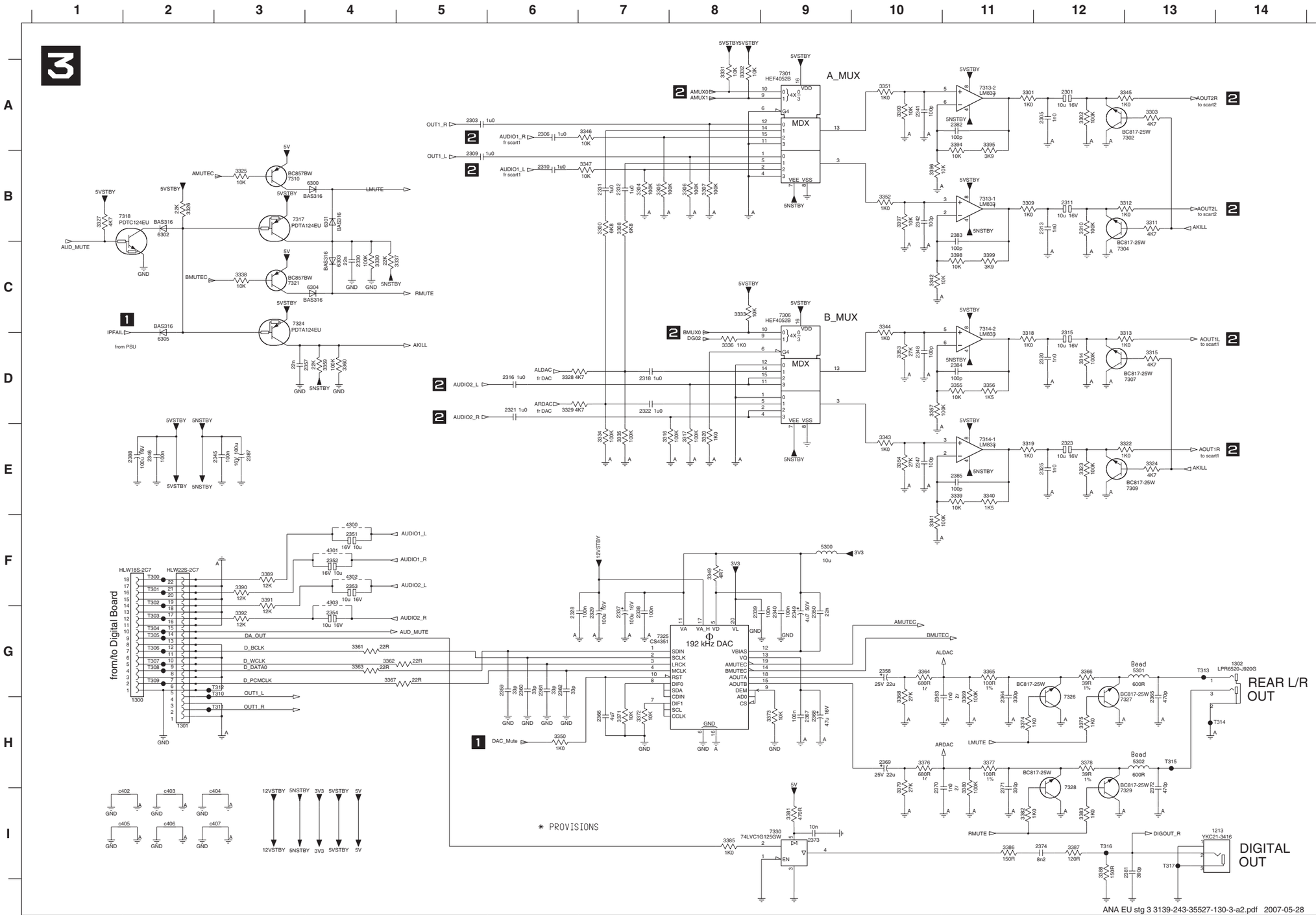
Analog: VIDEO / SCART



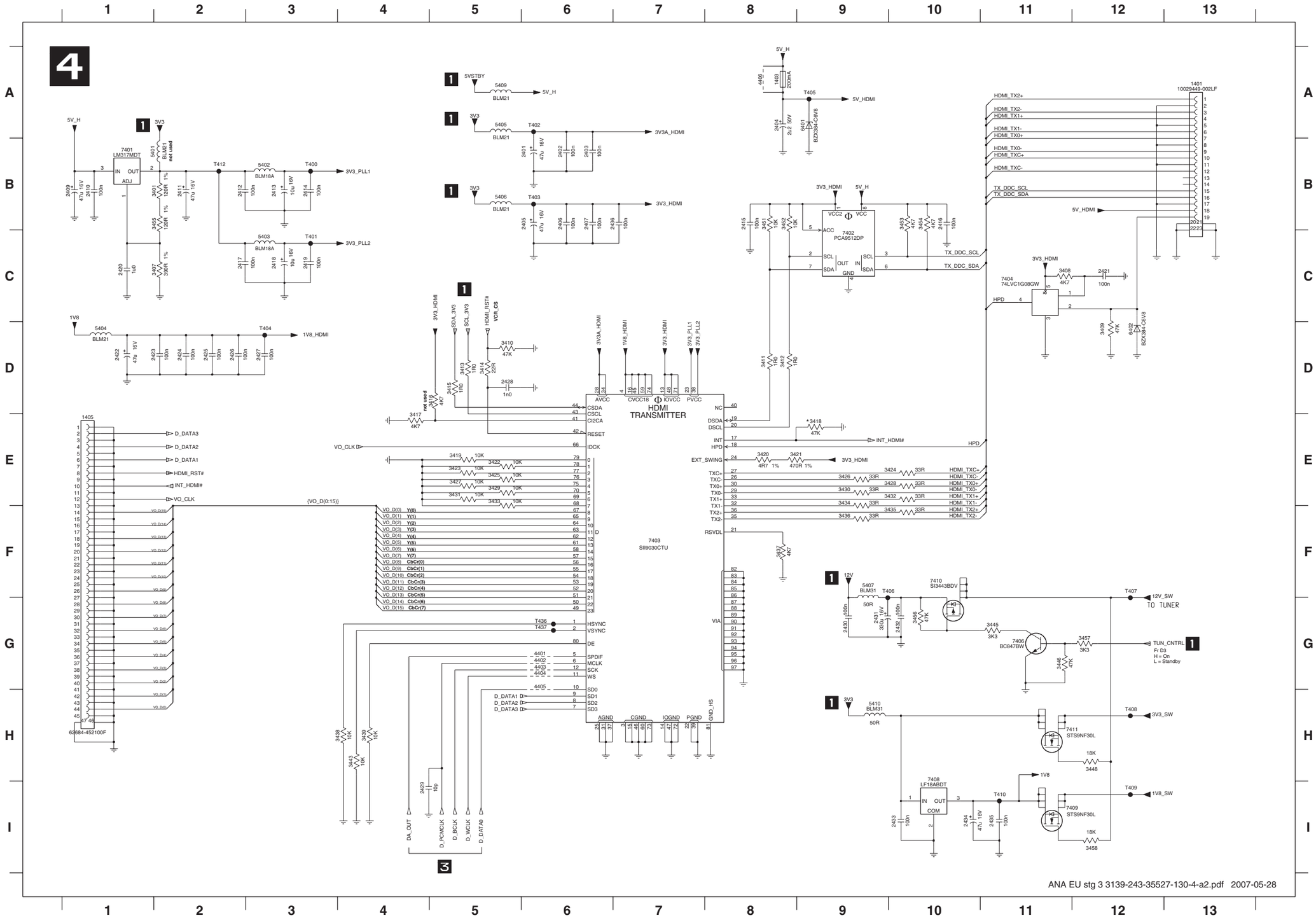
ANA EU stg 3 3139-243-35527-130-2-a2.pdf 2007-05-28

1205 E12	3291 F13	6212 A4
1210-A I14	3292 F8	6213 A4
1210-B F14	3293 F2	6220 C13
1210-C H14	3295 H7	6226 D2
1212-1 B14	3296 I7	6227 D2
1212-2 B14	3297 F13	6228 D2
1215-1 B1	3299 G11	6229 D2
1215-2 B1	5203 A10	6230 E2
1216-1 F1	5204 C7	6231 E2
1216-2 F1	5205 C8	6232 E2
2210 B12	5207 E13	6233 E3
2225 B2	6210 B2	6234 F2
2226 B2	6212 A4	6235 F14
2227 B3	6213 A4	6236 H2
2228 F2	6220 C13	6237 H2
2229 F3	6226 D2	6239 I2
2240 C6	6227 D2	6240 I2
2241 C7	6228 D2	6241 I3
2242 C6	6229 D2	6242 I3
2243 C7	6230 E2	6243 I3
2244 C8	6231 E2	6244 I12
2245 C8	6232 E2	6245 I13
2246 D3	6233 E3	6246 C13
2247 D8	6234 F2	6247 C13
2248 D8	6235 F14	7200 A4
2249 D8	6236 H2	7201 A8
2250 D8	6237 H2	7202 A5
2251 E5	6238 H2	7208 B4
2252 E8	6239 I2	7209 B5
2253 E5	6240 I2	7211 B6
2254 F12	6241 I3	7212 C6
2255 F13	6242 I3	7213 F12
2263 F8	6243 I3	7214 H12
2264 F8	6244 I12	7215 H12
2270 F8	6245 I13	7216 B12
2271 F12	6246 C13	7217-1 A9
2272 F2	6247 C13	7217-2 B9
2273 F11	7200 A4	7218 E9
2274 F8	7201 A8	7200 B1
2275 F12	7202 A5	7201 B1
2276 F11	7208 B4	7202 B1
2277 F12	7209 B5	7203 C1
2278 F14	7211 B6	7204 C1
2279 G12	7212 C6	7205 C1
2280 H3	7213 F12	7206 C1
2281 H12	7214 H12	7207 D1
2282 H13	7215 H12	7208 D1
2283 H11	7216 B12	7209 D1
2284 I12	7217-1 A9	7210 E1
2285 I12	7217-2 B9	7211 E1
2286 I13	7218 E9	7212 E1
2287 B11	7200 B1	7213 F1
2288 B11	7201 B1	7214 G1
2289 B11	7202 B1	7215 G1
2290 B12	7203 C1	7216 G1
2291 B11	7204 C1	7217 G1
2292 B12	7205 C1	7218 G1
2293 C10	7206 C1	7219 G1
2294 C12	7207 D1	7220 H1
3200 A4	7208 D1	7221 H1
3201 F5	7209 D1	7222 I1
3202 A7	7210 E1	7223 I1
3203 A8	7211 E1	7224 I1
3214 H3	7212 E1	7225 I1
3215 H2	7213 F1	7226 B13
3216 G7	7214 G1	7227 B13
3217 I4	7215 G1	7228 C13
3218 H7	7216 G1	7229 C14
3219 I3	7217 G1	7230 D12
3220 I3	7218 G1	7231 D12
3221 I2	7219 G1	7232 D12
3223 B5	7220 H1	7233 D12
3224 A6	7221 H1	7234 D12
3225 B13	7222 I1	7235 D12
3226 B10	7223 I1	7236 D12
3228 B2	7224 I1	7237 E12
3229 D5	7225 I1	7238 E12
3230 B4	7226 B13	7239 E12
3232 B6	7227 B13	7240 E12
3234 B13	7228 C13	7241 E12
3235 B4	7229 C14	7242 E12
3244 B6	7230 D12	7243 F14
3251 I9	7231 D12	7244 F14
3252 C13	7232 D12	7246 I13
3253 B10	7233 D12	7247 I13
3254 C10	7234 D12	7248 I14
3257 I11	7235 D12	
3261 G13	7236 D12	
3262 I13	7237 E12	
3263 B6	7238 E12	
3265 H11	7239 E12	
3266 I11	7240 E12	
3267 H12	7241 E12	
3268 H12	7242 E12	
3269 I12	7243 F14	
3270 H12	7244 F14	
3271 I12	7246 I13	
3272 B4	7247 I13	
3273 B5	7248 I14	
3274 B5		
3275 B5		
3276 D3		
3277 D5		
3278 D5		
3279 D5		
3280 D5		
3281 E4		
3282 E8		
3283 E8		
3284 E9		
3285 E9		
3286 E5		
3287 E2		
3288 E8		
3289 F5		
3290 F5		

Analog: DAC & AUDIO SWITCH



Analog: HDMI



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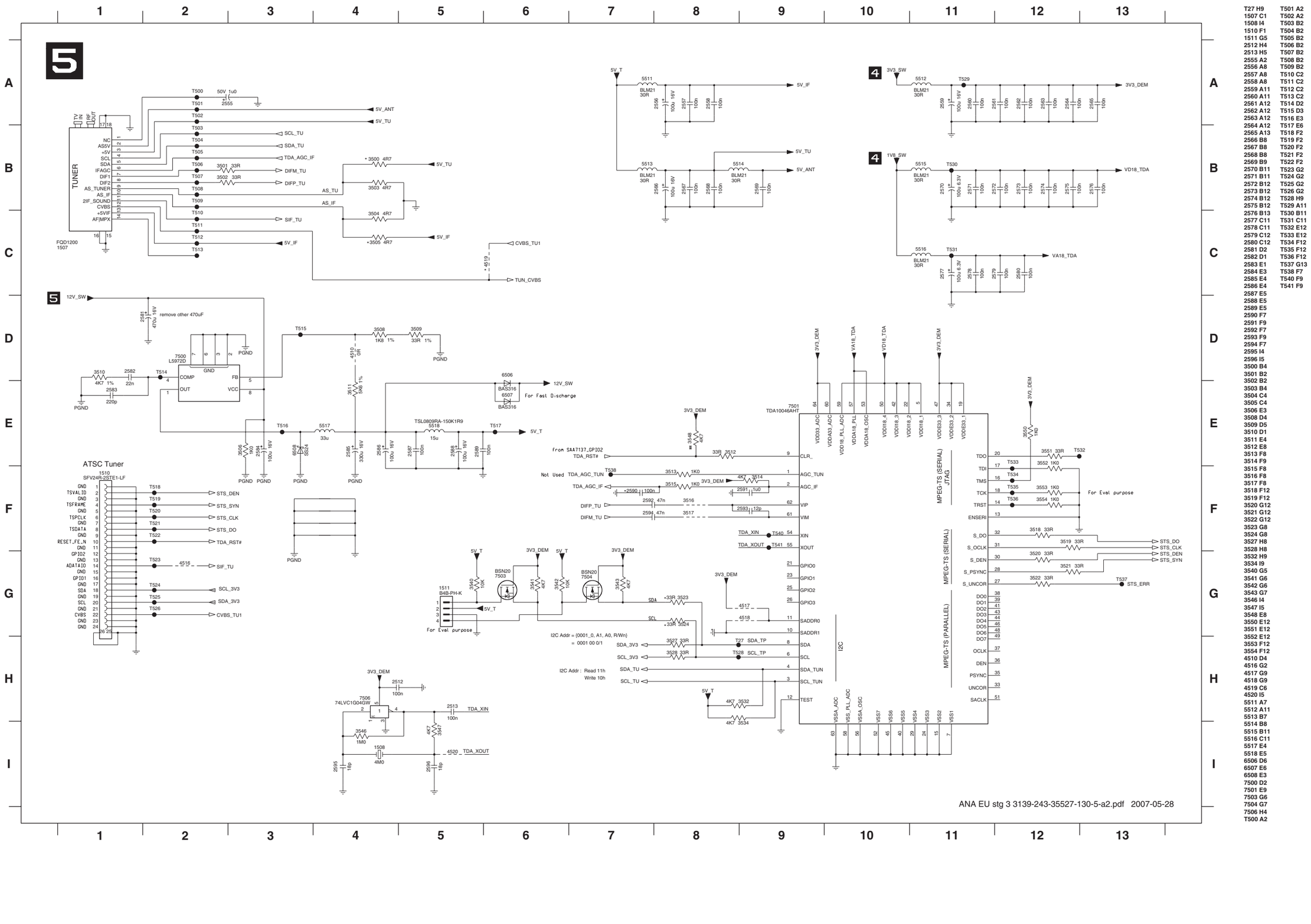
1401 A13 T403 B6
1403 A8 T404 D3
1405 E1 T405 A9
2401 B6 T406 F9
2402 B6 T407 F12
2403 B6 T408 H12
2404 A8 T409 I12
2405 B6 T410 I11
2406 B6 T412 B2
2407 B6 T436 G6
2409 B1 T437 G6
2410 B1
2411 B2
2412 B2
2413 B3
2414 B3
2415 B8
2416 B10
2417 C2
2418 C3
2419 C3
2420 C1
2421 C12
2422 D1
2423 D2
2424 D2
2425 D2
2426 D2
2427 D3
2428 D5
2429 I4
2430 G9
2431 G9
2432 G10
2433 I10
2434 I10
2435 I11
2436 B7
3401 B2
3407 C2
3408 C11
3409 D12
3410 D5
3411 D8
3412 D8
3413 D5
3414 D5
3415 D5
3416 D5
3417 E4
3418 E9
3419 E5
3420 E8
3421 E8
3422 E5
3423 E5
3424 E10
3425 E5
3426 E9
3427 E5
3428 E10
3429 E5
3430 E9
3431 E5
3432 E10
3433 E5
3434 E9
3435 F10
3436 F9
3437 F8
3438 H4
3439 H4
3443 H4
3445 G11
3446 G11
3448 H12
3451 B8
3452 B8
3453 B10
3454 B10
3455 B2
3456 G10
3457 G12
3458 I12
4401 G6
4402 G6
4403 G6
4404 G6
4405 G6
4406 A8
5401 B2
5402 B3
5403 C3
5404 D1
5405 A5
5406 B5
5407 F9
5409 A5
5410 H9
6401 A9
6402 D12
7401 B1
7402 C9
7403 F7
7404 C11
7406 G11
7408 I10
7409 I11
7410 F10
7411 H11
T400 B3
T401 C3
T402 A6

Analog: DVBT & Channel Decoder



T27 H9
1507 C1
1508 I4
1510 F1
1511 G5
2512 H4
2513 H5
2555 A2
2556 A8
2557 A8
2558 A8
2559 A11
2560 A11
2561 A12
2562 A12
2563 A12
2564 A12
2565 A13
2566 B8
2567 B8
2568 B8
2569 B9
2570 B11
2571 B11
2572 B12
2573 B12
2574 B12
2575 B12
2576 B13
2577 C11
2578 C11
2579 C12
2580 C12
2581 D2
2582 D1
2583 E1
2584 E3
2585 E4
2586 E4
2587 E5
2588 E5
2589 E5
2590 F7
2591 F9
2592 F7
2593 F9
2594 F7
2595 I4
2596 I5
3500 B4
3501 B2
3502 B2
3503 B4
3504 C4
3505 C4
3506 E3
3508 D4
3509 D5
3510 D1
3511 E4
3512 E8
3513 F8
3514 F9
3515 F8
3516 F8
3517 F8
3518 F12
3519 F12
3520 G12
3521 G12
3522 G12
3523 G8
3524 G8
3527 H8
3528 H8
3532 H9
3534 I9
3540 G5
3541 G6
3542 G6
3543 G7
3546 I4
3547 I5
3548 E8
3550 E12
3551 E12
3552 E12
3553 F12
3554 F12
4510 D4
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4517 G9
4518 G9
4519 C6
4520 I5
5511 A7
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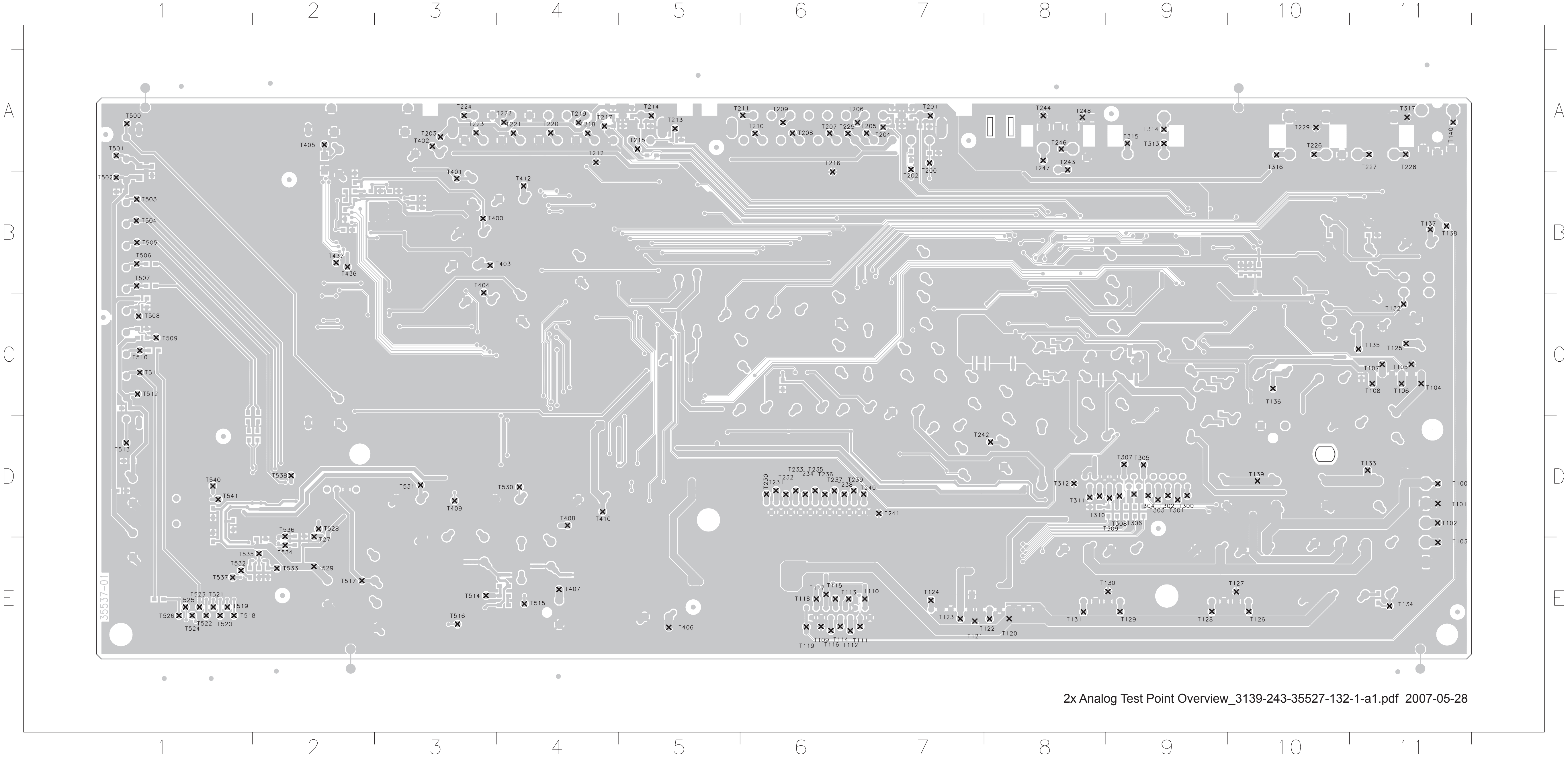
5513 B7
5514 B8
5515 B11
5516 C11
5517 E4
5518 E5
6506 D6
6507 E6
6508 E3
7500 D2
7501 E9
7503 G6
7504 G7
7506 H4
T500 A2
T501 A2
T502 A2
T503 B2
T504 B2
T505 B2
T506 B2
T507 B2
T508 B2
T509 B2
T510 C2
T511 C2
T512 C2
T513 C2
T514 D2
T515 D3
T516 E3
T517 E6
T518 F2
T519 F2
T520 F2
T521 F2
T522 F2
T523 G2
T524 G2
T525 G2
T526 G2
T528 H9
T529 A11
T530 B11
T531 C11
T532 E12
T533 E12
T534 F12
T535 F12
T536 F12
T537 G13
T538 F7
T540 F9
T541 F9

Layout: Analog Board Testpoint Overview

T27 D2	T107 C11	T115 E6	T123 E7	T131 E8	T139 D10	T206 A6	T214 A5	T222 A4	T230 D6	T238 D6	T247 A8	T306 D9	T314 A9	T404 B3	T436 B2	T506 B1	T514 E3	T522 E1	T531 D3	T540 D1
T100 D11	T108 C11	T116 E6	T124 E7	T132 C11	T140 A11	T207 A6	T215 A5	T223 A3	T231 D6	T239 D6	T248 A8	T307 D9	T315 A9	T405 A2	T437 B2	T507 B1	T515 E4	T523 E1	T532 E1	T541 D1
T101 D11	T109 E6	T117 E6	T125 C11	T133 D11	T200 A7	T208 A6	T216 B6	T224 A3	T232 D6	T240 D7	T300 D9	T308 D9	T316 A10	T406 E5	T500 A1	T508 C1	T516 E3	T524 E1	T533 E2	
T102 D11	T110 E7	T118 E6	T126 E10	T134 E11	T201 A7	T209 A6	T217 A4	T225 A6	T233 D6	T241 D7	T301 D9	T309 D9	T317 A11	T407 E4	T501 A1	T509 C1	T517 E2	T525 E1	T534 E2	
T103 E11	T111 E6	T119 E6	T127 E10	T135 C11	T202 A7	T210 A6	T218 A4	T226 A10	T234 D6	T242 D8	T302 D9	T310 D8	T400 B3	T408 D4	T502 B1	T510 C1	T518 E1	T526 E1	T535 E2	
T104 C11	T112 E6	T120 E8	T128 E9	T136 C10	T203 A3	T211 A6	T219 A4	T227 A11	T235 D6	T243 A8	T303 D9	T311 D8	T401 B3	T409 D3	T503 B1	T511 C1	T519 E1	T528 D2	T536 D2	
T105 C11	T113 E6	T121 E7	T129 E9	T137 B11	T204 A7	T212 A4	T220 A4	T228 A11	T236 D6	T244 A8	T304 D9	T312 D8	T402 A3	T410 D4	T504 B1	T512 C1	T520 E1	T529 E2	T537 E1	
T106 C11	T114 E6	T122 E8	T130 E9	T138 B11	T205 A7	T213 A5	T221 A4	T229 A10	T237 D6	T246 A8	T305 D9	T313 A9	T403 B3	T412 B4	T505 B1	T513 D1	T521 E1	T530 D4	T538 D2	



2x Analog Test Point Overview_3139-243-35527-132-1-a1.pdf 2007-05-28

Layout: Analog (Top View)

1100	E4	2100	D3	2133	B1	2270	C8	2318	C4	2366	D3	2425	B10	2587	E9	3127	D8	3189	D7	3253	C6	3296	C8	3331	B3	3368	B3	3409	B10
1101	E2	2101	D2	2135	B1	2271	C5	2320	C5	2367	C3	2427	B10	2588	E9	3128	D5	3190	D6	3257	D5	3297	B4	3332	B3	3369	B3	3410	B9
1102	D1	2102	D4	2139	B1	2273	D5	2321	B4	2368	C4	2428	B9	2589	E10	3129	D5	3191	D6	3261	C5	3299	D5	3333	C4	3371	D3	3411	C10
1103	D2	2103	D3	2140	E1	2274	C4	2323	B4	2369	B3	2430	E7	2590	D10	3130	D5	3192	D6	3262	B4	3300	B3	3334	B4	3372	D3	3412	B9
1104	D1	2104	D3	2141	E1	2275	C4	2325	B5	2370	B3	2431	E7	2591	D10	3131	D5	3193	C1	3263	B7	3301	B3	3335	C4	3373	D3	3413	B9
1105	D1	2105	D2	2144	C1	2276	C5	2325	B5	2371	B3	2432	E7	2593	D10	3132	D5	3195	B1	3265	D5	3302	B4	3336	B6	3374	B3	3414	B9
1106	B1	2106	D2	2145	C1	2277	C5	2328	C3	2372	A3	2433	E7	2595	D11	3133	D5	3196	D4	3266	D5	3303	B4	3337	B2	3375	B3	3415	B9
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1110	C2	2110	D4	2150	D5	2282	C5	2332	C3	2382	B3	2512	D11	3102	E4	3137	D6	3200	B7	3270	D5	3307	B3	3341	B5	3379	B3	3419	B10
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1123	A1	2116	D5	2240	C8	2288	C6	2342	C3	2401	A9	2564	D10	3109	E4	3148	D5	3217	A8	3276	B7	3313	C5	3347	C3	3386	A2	3425	B10
1205	D6	2117	D5	2241	C7	2289	C6	2347	B5	2404	A10	2565	D11	3110	E3	3149	D5	3218	C8	3277	B7	3314	B5	3349	C3	3387	A2	3426	A10
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1401	A10	2126	D6	2251	C7	2306	B3	2359	D3	2417	B8	2578	D11	3119	D4	3173	D5	3230	B7	3287	A6	3324	B5	3361	D3	3396	B3	3435	A9
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3455	B9	4109	D5	5403	B8	6240	A9	7115	D6	7328	B3																		
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3519	E11	5102	D5	5518	E10	6305	C2	7215	D5	7501	D11																		
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3523	E10	5107	D5	6220	B2	6508	D8	7301	B3																				
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3528	D10	5110	D5	6228	A5	7102	E2	7306	B4																				
3532	D10	5111	D5	6229	A5	7103	E4	7307	C5																				
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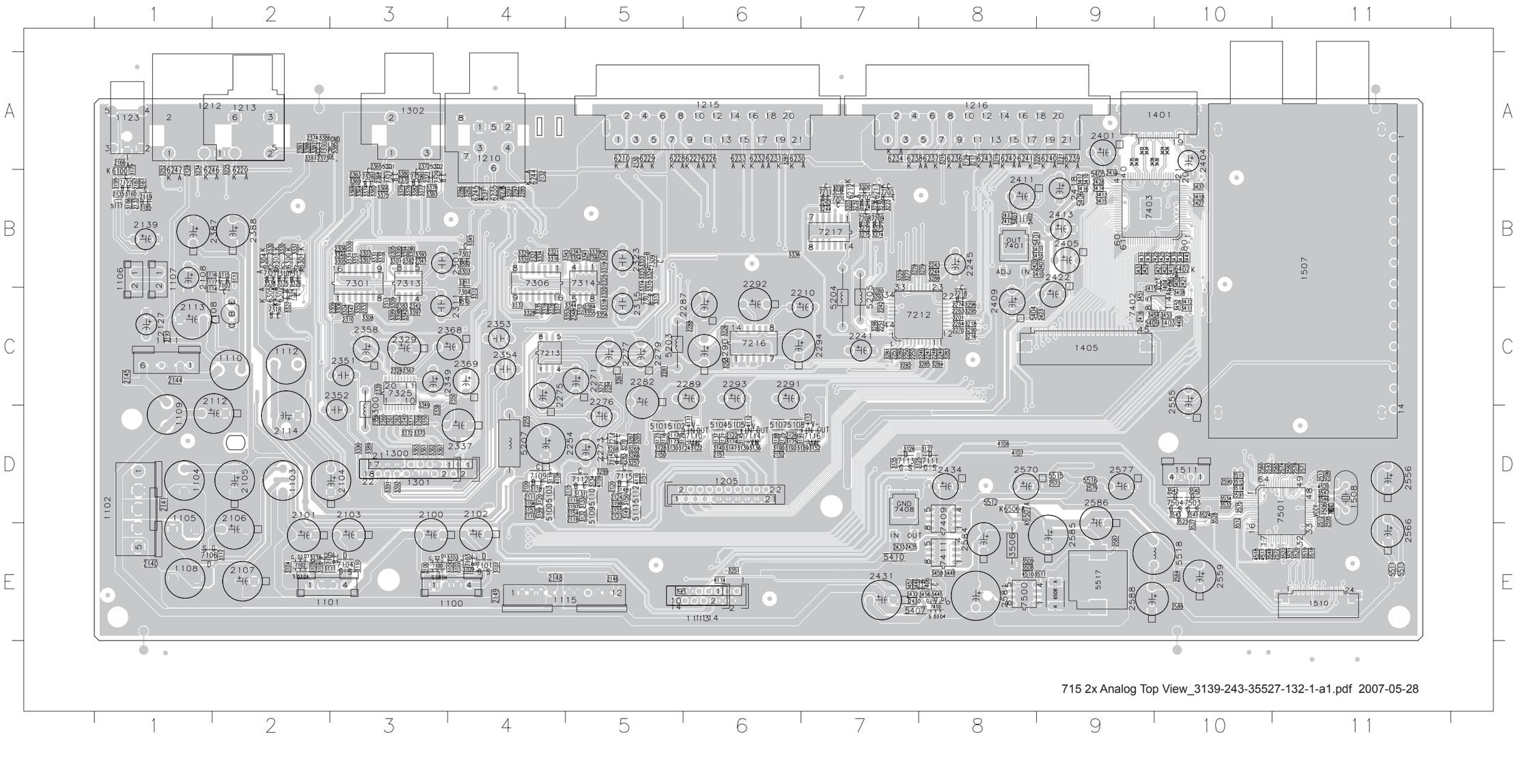
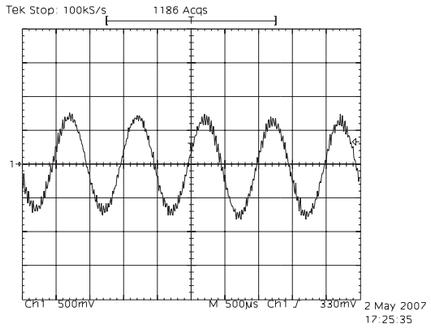
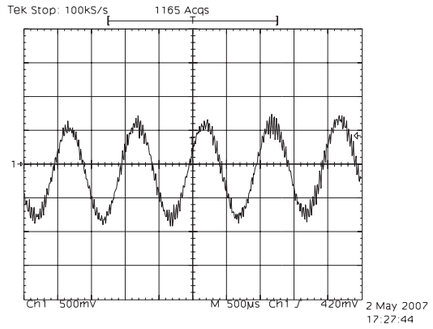


Analogue Board Waveforms

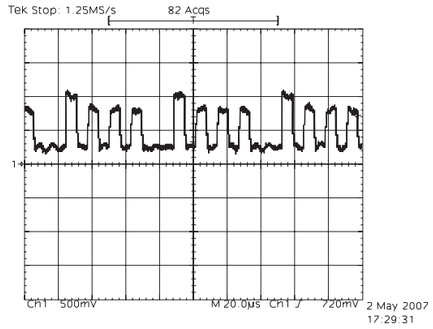
T200 SCART AOUT1R



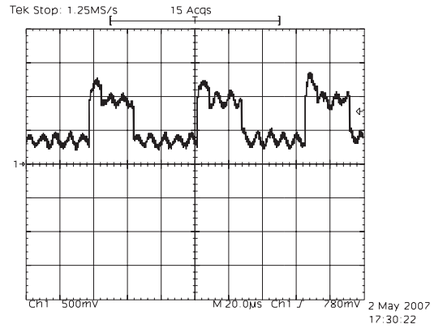
T202 SCART AOUT1L



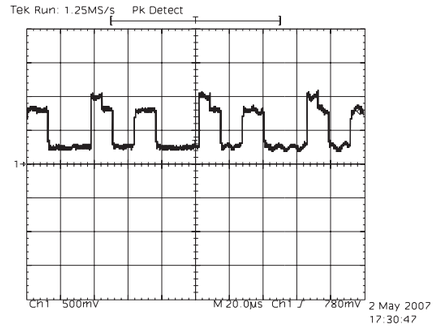
T205 SCART active BOUT



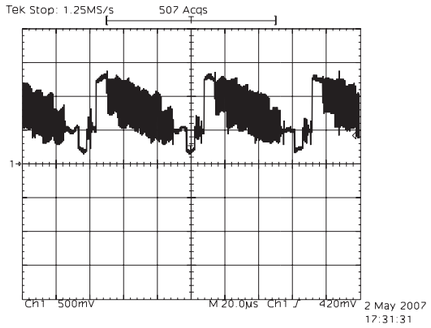
T207 SCART active GOUT



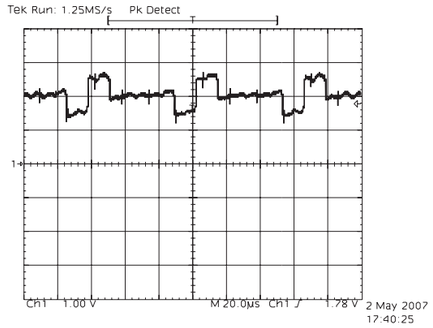
T208 SCART active ROUT



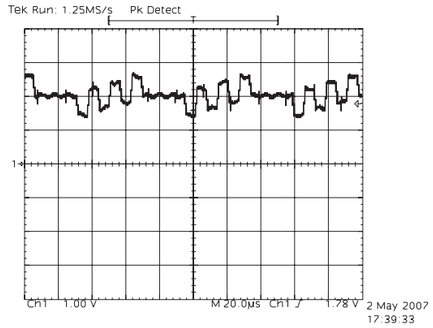
T211 SCART CVBSOUT1



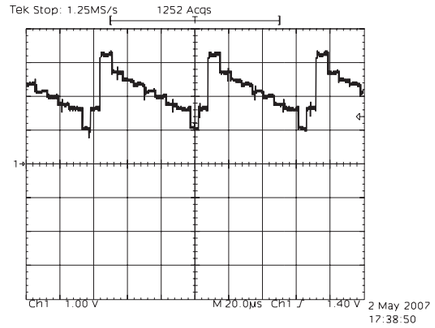
T226 REAR OUT V



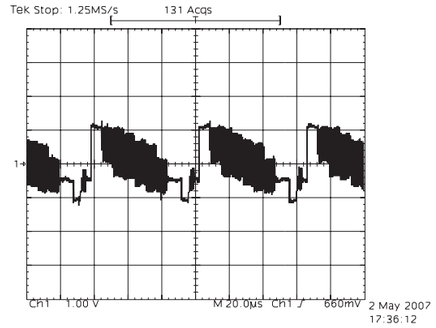
T227 REAR OUT U



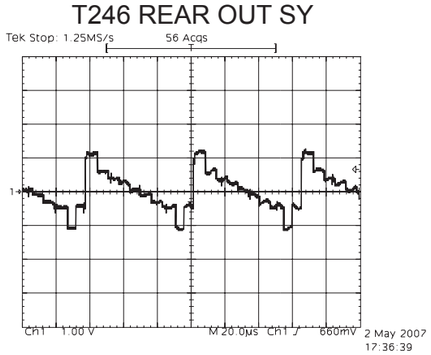
T228 REAROUT Y



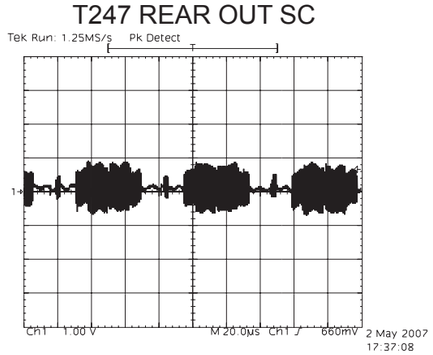
T243 REAR OUT CVBS



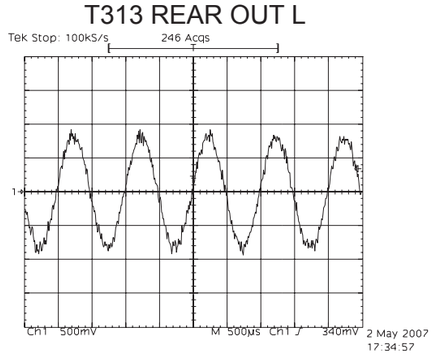
T246 REAR OUT SY



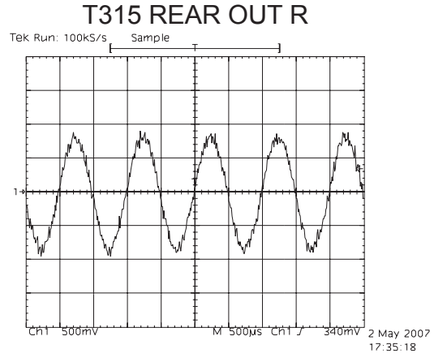
T247 REAR OUT SC



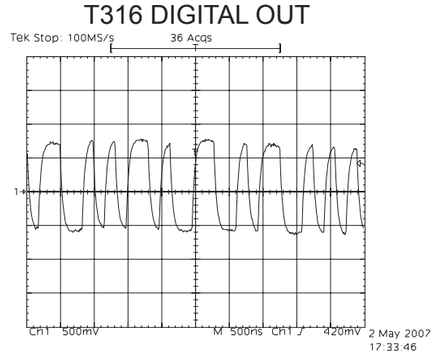
T313 REAR OUT L



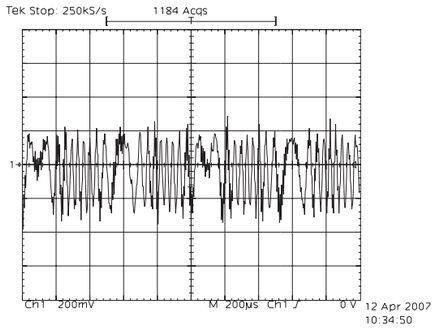
T315 REAR OUT R



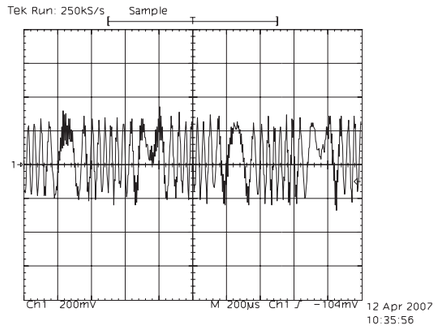
T316 DIGITAL OUT



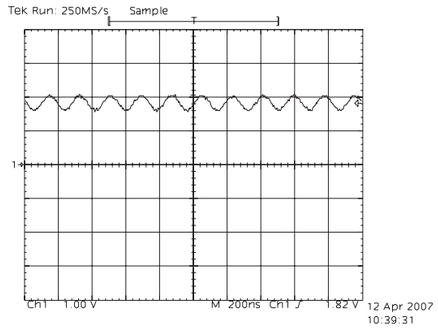
T506 DIF1 Tuner



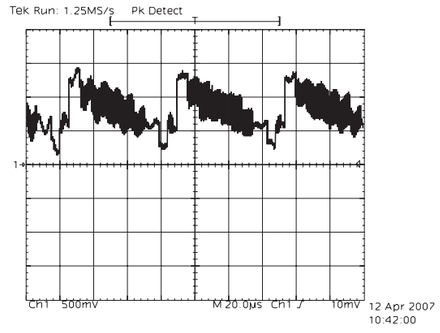
T507 DIF2 Tuner



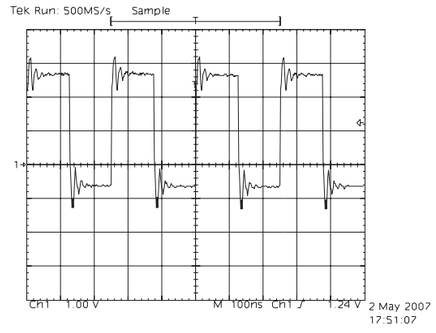
T510 SIF Tuner



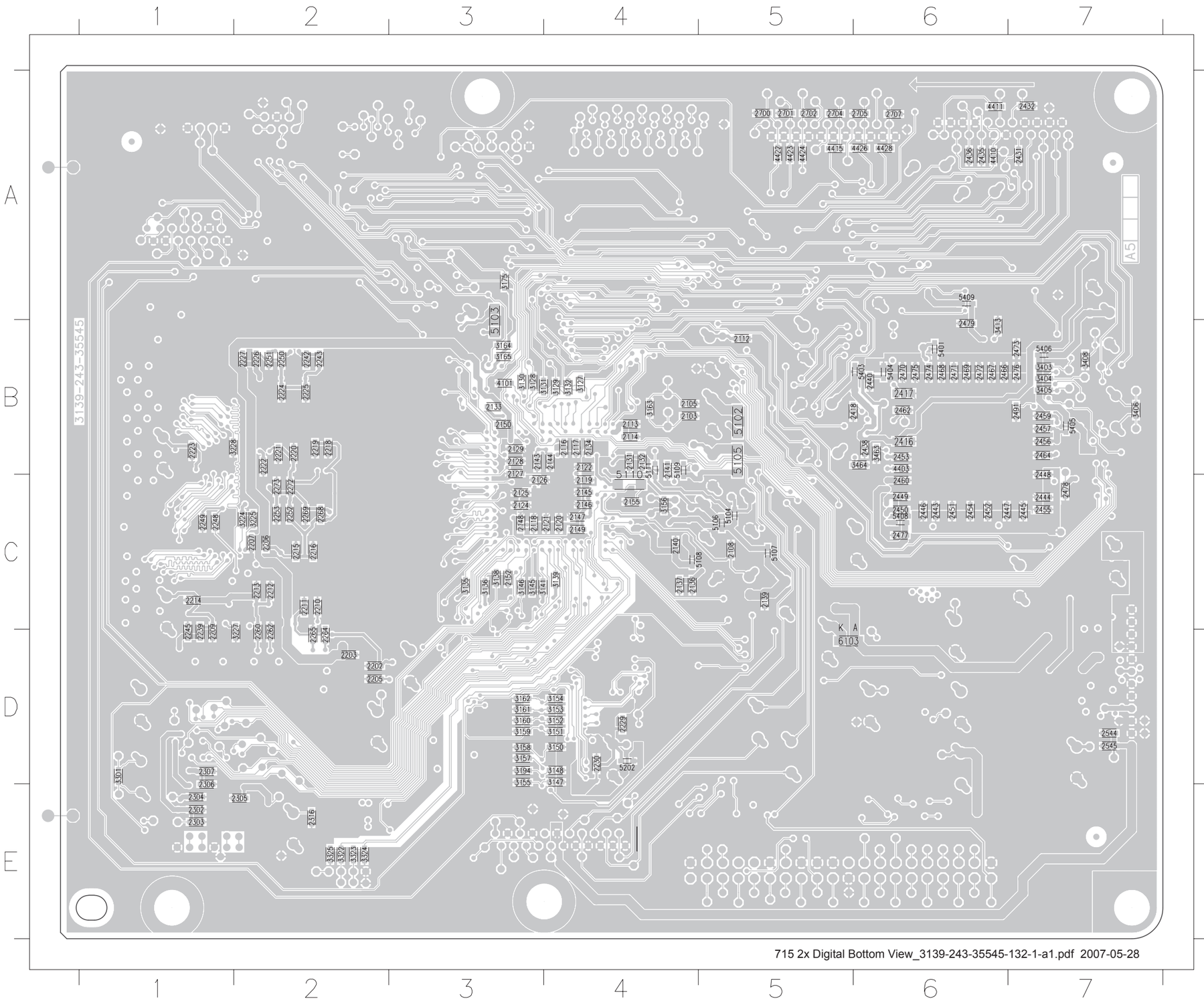
T511 CVBS Tuner



T540 TDA XIN



Layout: Digital (Bottom View)



715 2x Digital Bottom View_3139-243-35545-132-1-a1.pdf 2007-05-28

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2105	B4	2316	E2	3225	C2		
2108	C5	2416	B6	3227	D2		
2112	B5	2417	B6	3228	B1		
2113	B4	2418	B5	3301	D1		
2114	B4	2431	A7	3322	E2		
2116	B4	2432	A7	3323	E2		
2117	B4	2435	A6	3324	E2		
2118	C3	2436	A6	3325	E2		
2119	C4	2438	B6	3403	B7		
2120	C4	2440	B6	3404	B7		
2121	C4	2443	C6	3405	B7		
2122	B4	2444	C7	3406	B7		
2124	C3	2445	C7	3408	B7		
2125	C3	2446	C6	3413	B6		
2126	C3	2447	C6	3463	B6		
2127	B3	2448	C7	3464	B6		
2128	B3	2449	C6	4101	B3		
2129	B3	2450	C6	4403	B6		
2131	B4	2451	C6	4410	A6		
2132	B4	2452	C6	4411	A6		
2133	B3	2453	B6	4415	A5		
2134	B4	2454	C6	4422	A5		
2136	C4	2455	C7	4423	A5		
2137	C4	2456	B7	4424	A5		
2139	C5	2457	B7	4426	A6		
2140	C4	2459	B7	4428	A6		
2141	B4	2460	C6	5102	B5		
2143	B3	2462	B6	5103	B3		
2144	B4	2464	B7	5104	C5		
2145	C4	2466	B6	5105	B5		
2146	C4	2467	B6	5106	C5		
2147	C4	2468	B6	5107	C5		
2148	C3	2469	B6	5108	C5		
2149	C4	2470	B6	5109	B4		
2150	B3	2471	B6	5110	C4		
2152	C3	2472	B6	5111	B4		
2155	C4	2473	B7	5202	D4		
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2203	D2	2475	B6	5403	B6		
2205	D2	2476	B7	5404	B6		
2206	C2	2477	C6	5405	B7		
2207	C2	2478	C7	5406	B7		
2209	D1	2479	B6	5408	C6		
2210	C2	2491	B7	5409	A6		
2211	C2	2544	D7	6103	D5		
2212	C2	2545	D7				
2213	C2	2700	A5				
2214	C1	2701	A5				
2215	C2	2702	A5				
2216	C2	2704	A5				
2218	B2	2705	A6				
2219	B2	2707	A6				
2220	B2	3127	B4				
2221	B2	3128	B3				
2222	B2	3129	B4				
2223	B1	3130	B3				
2224	B2	3131	B3				
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2229	D4	3138	C3				
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2248	C1	3148	D4				
2249	C1	3150	D4				
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2252	C2	3153	D4				
2253	C2	3154	D4				
2260	D2	3155	D3				
2262	D2	3156	C4				
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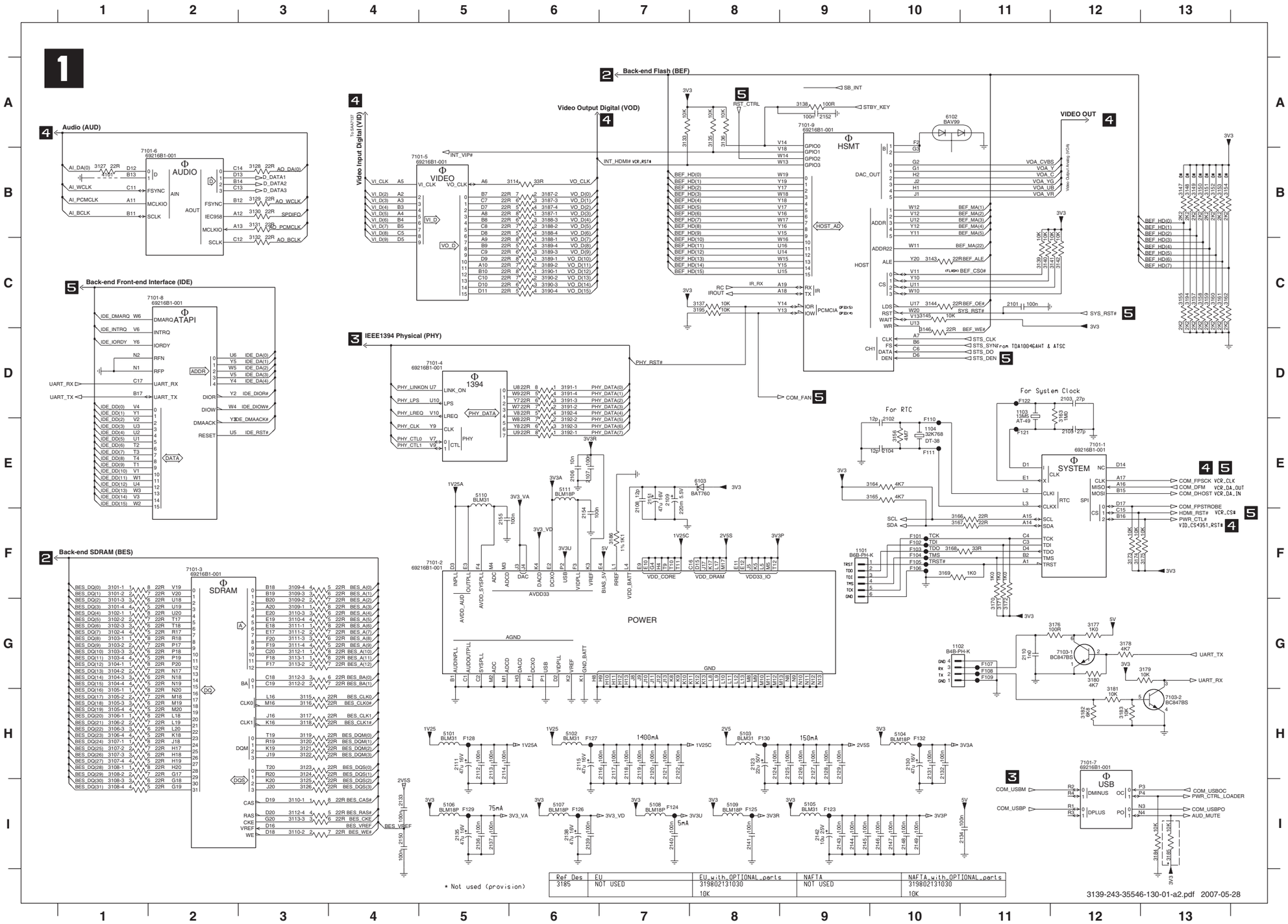
2265	D2	3158	D3				
2268	C2	3159	D3				
2269	C2	3160	D3				
2272	C2	3161	D3				
2273	C2	3162	D3				
2302	E1	3163	B4				
2303	E1	3164	B3				
2304	E1	3165	B3				
2305	E2	3175	A3				
2306	E1	3194	D3				

Digital: Back-end Processor



Ref Des	EU	EU_with_OPTIONAL_parts	NAFTA	NAFTA_with_OPTIONAL_parts
3185	NOT USED	319802131030 10K	NOT USED	319802131030 10K

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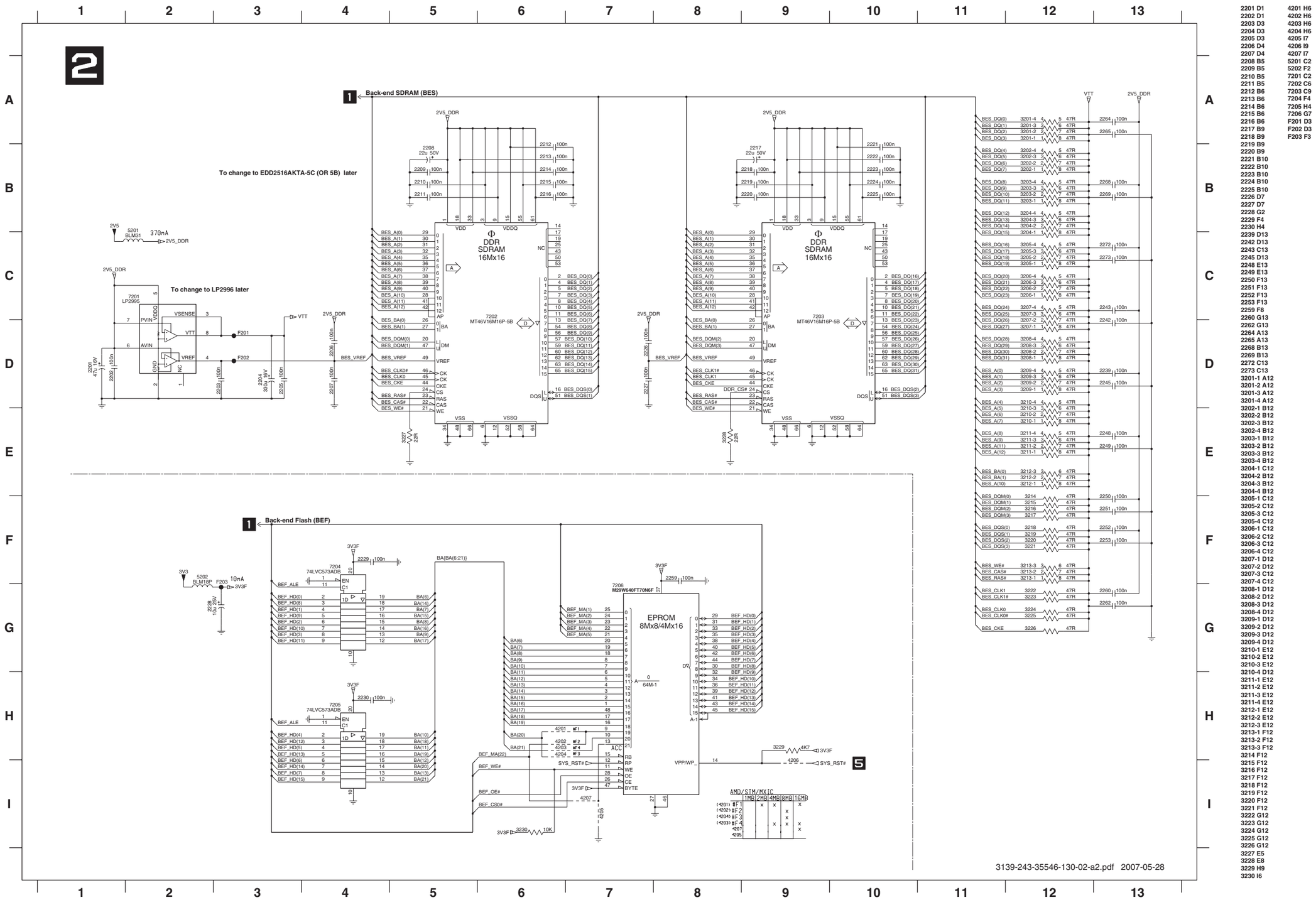
1101 F9	3121 H3	F101 F10
1102 G10	3122 H3	F102 F10
1103 D11	3123 H3	F103 F10
1104 E10	3124 H3	F104 F10
2101 C11	3125 I3	F105 F10
2102 D10	3126 I3	F106 F10
2103 D12	3127 B1	F107 G11
2104 E10	3128 B3	F108 G11
2105 E12	3129 B3	F109 G11
2106 E6	3130 B3	F110 E10
2107 E6	3131 B3	F111 E10
2108 E7	3132 C3	F121 E11
2109 E7	3133 A7	F122 D11
2110 G11	3135 A8	F123 I9
2111 H5	3136 A8	F124 I7
2112 H5	3137 C6	F125 I8
2113 H5	3138 A9	F126 I6
2114 H5	3139 C11	F127 H6
2115 H6	3140 C11	F128 H5
2116 H7	3141 C12	F129 I5
2117 H7	3142 C12	F130 H8
2118 H7	3143 C10	F132 H10
2119 H7	3144 C10	
2120 H7	3145 C10	
2121 H7	3146 D10	
2122 H7	3147 B13	
2123 H8	3148 B13	
2124 H8	3149 B13	
2125 H9	3150 B13	
2126 H9	3151 B13	
2127 H9	3152 B13	
2128 H9	3153 B13	
2129 H9	3154 B13	
2130 H10	3155 C13	
2131 H10	3156 E10	
2132 H10	3157 C13	
2133 I4	3158 C13	
2134 I11	3159 C13	
2135 I5	3160 C13	
2136 I5	3161 C13	
2137 I5	3162 C13	
2138 I6	3163 D12	
2139 I6	3164 E10	
2140 I7	3165 E10	
2141 I8	3166 F10	
2142 I9	3167 F10	
2143 I9	3168 F10	
2144 I9	3169 F10	
2145 I9	3170 G11	
2146 I10	3171 G11	
2147 I10	3172 G11	
2148 I10	3173 F12	
2149 I10	3174 F12	
2150 I4	3175 F13	
2151 E7	3176 G12	
2152 A9	3177 G12	
2154 F6	3178 G12	
2155 F5	3179 G13	
3101-1 F1	3180 G12	
3101-2 F1	3181 H12	
3101-3 G1	3182 H12	
3101-4 G1	3183 H12	
3102-1 G1	3184 I13	
3102-2 G1	3185 I13	
3102-3 G1	3186 F7	
3102-4 G1	3187-1 B6	
3103-1 G1	3187-2 B6	
3103-2 G1	3187-3 B6	
3103-3 G1	3187-4 B6	
3103-4 G1	3188-1 C6	
3104-1 G1	3188-2 B6	
3104-2 G1	3188-3 B6	
3104-3 G1	3188-4 B6	
3104-4 G1	3189-1 C6	
3105-1 H1	3189-2 C6	
3105-2 H1	3189-3 C6	
3105-3 H1	3189-4 C6	
3105-4 H1	3190-1 C6	
3106-1 H1	3190-2 C6	
3106-2 H1	3190-3 C6	
3106-3 H1	3190-4 C6	
3106-4 H1	3191-1 D6	
3107-1 H1	3191-2 D6	
3107-2 H1	3191-3 D6	
3107-3 H1	3191-4 D6	
3107-4 H1	3192-1 E6	
3108-1 H1	3192-2 E6	
3108-2 H1	3192-3 E6	
3108-3 I1	3192-4 D6	
3108-4 I1	3194 C13	
3109-1 G3	3195 C8	
3109-2 G3	4101 B1	
3109-3 F3	5101 H5	
3109-4 F3	5102 H6	
3110-1 I3	5103 H8	
3110-2 I3	5104 H10	
3110-3 G3	5105 I9	
3110-4 G3	5106 I5	
3111-1 G3	5107 I6	
3111-2 G3	5108 I7	
3111-3 G3	5109 I8	
3111-4 G3	5110 E5	
3112-1 G3	5111 E6	
3112-2 G3	6102 A10	
3112-3 G3	6103 E8	
3112-4 I3	7101-1 E12	
3113-1 G3	7101-2 F5	
3113-2 G3	7101-3 F2	
3113-3 I3	7101-4 D5	
3114 B6	7101-5 B5	
3115 H3	7101-6 B2	
3116 H3	7101-7 H12	
3117 H3	7101-8 C2	
3118 H3	7101-9 A9	
3119 H3	7103-1 G12	
3120 H3	7103-2 H13	

Digital: Memory



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2201 D1
2202 D1
2203 D3
2204 D3
2205 D3
2206 D4
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2208 B5
2209 B5
2210 B5
2211 B5
2212 B6
2213 B6
2214 B6
2215 B6
2216 B6
2217 B9
2218 B9
2219 B9
2220 B9
2221 B10
2222 B10
2223 B10
2224 B10
2225 B10
2226 D7
2227 D7
2228 G2
2229 F4
2230 H4
2239 D13
2242 D13
2243 C13
2245 D13
2248 E13
2249 E13
2250 F13
2251 F13
2252 F13
2253 F13
2259 F8
2260 G13
2262 G13
2264 A13
2265 A13
2268 B13
2269 B13
2272 C13
2273 C13
3201-1 A12
3201-2 A12
3201-3 A12
3201-4 A12
3202-1 B12
3202-2 B12
3202-3 B12
3202-4 B12
3203-1 B12
3203-2 B12
3203-3 B12
3203-4 B12
3204-1 C12
3204-2 B12
3204-3 B12
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3205-1 C12
3205-2 C12
3205-3 C12
3205-4 C12
3206-1 C12
3206-2 C12
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3212-3 E12
3213-1 F12
3213-2 F12
3213-3 F12
3214 F12
3215 F12
3216 F12
3217 F12
3218 F12
3219 F12
3220 F12
3221 F12
3222 G12
3223 G12
3224 G12
3225 G12
3226 G12
3227 E5
3228 E8
3229 H9
3230 I6
4201 H6
4202 H6
4203 H6
4204 H6
4205 I7
4206 I9
4207 I7
5201 C2
5202 F2
7201 C2
7202 C6
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7204 F4
7205 H4
7206 G7
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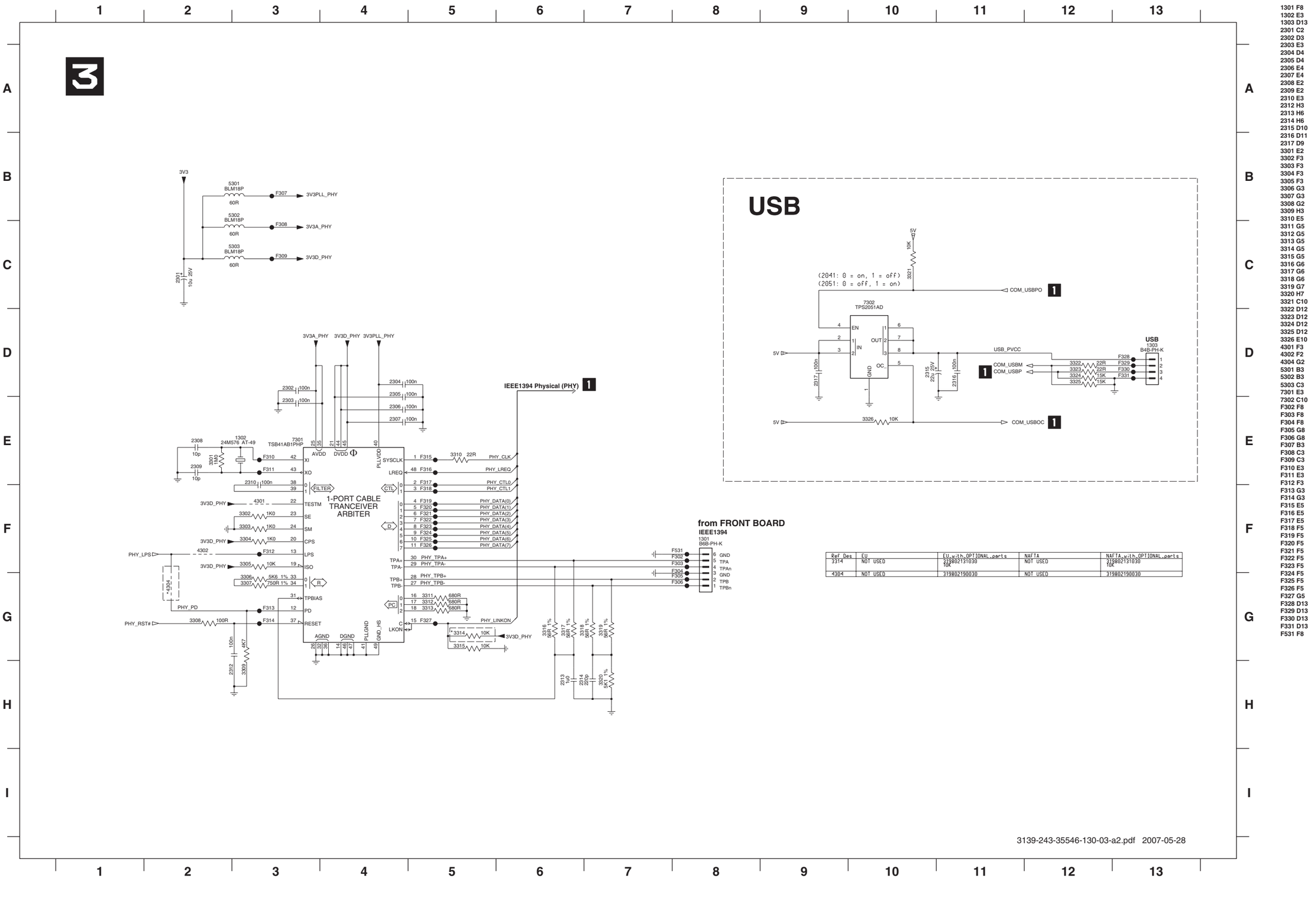
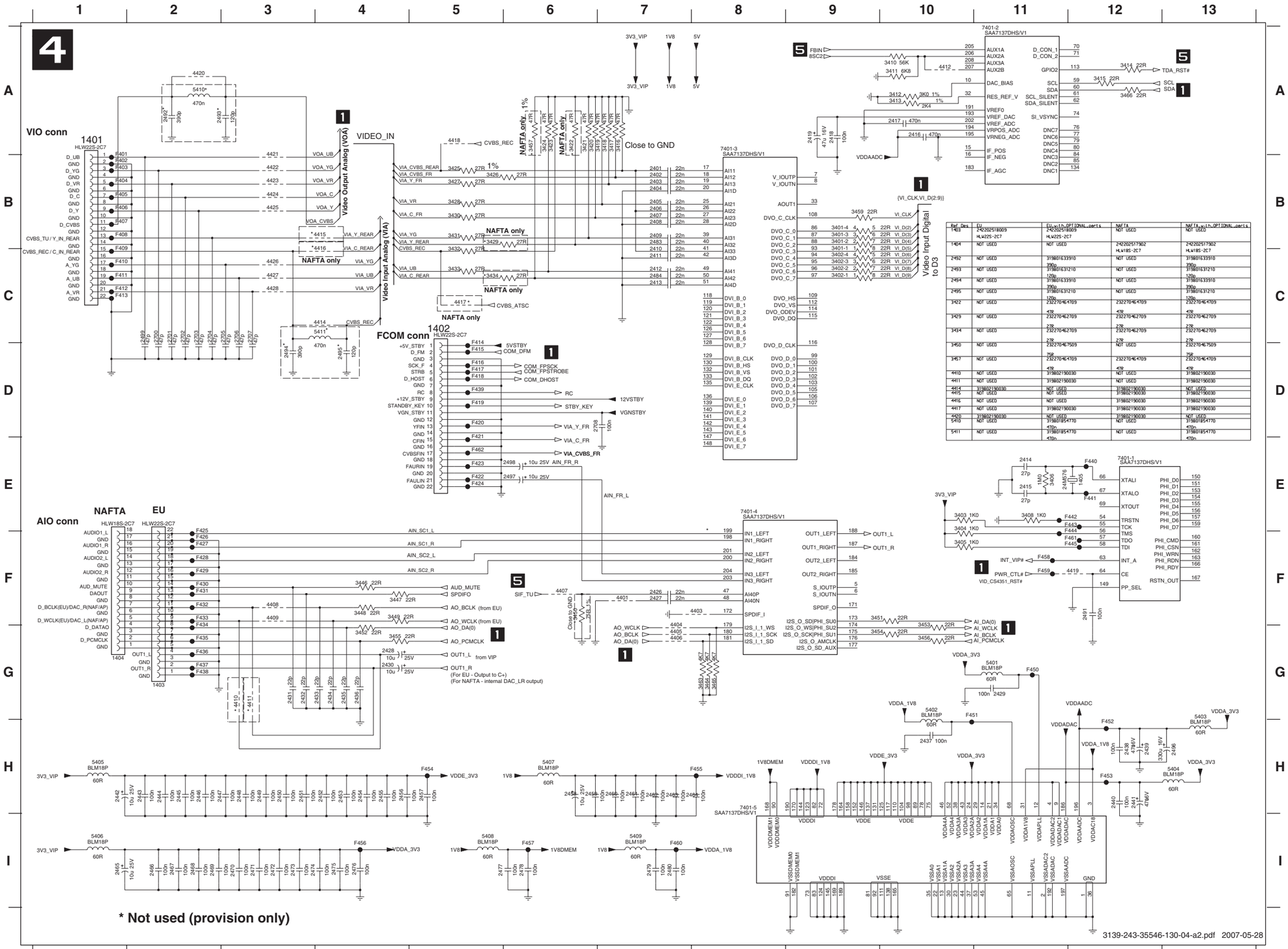
F202 D3
F203 F3

Digital: IEEE 1394 Physical Layer & USB



Digital: Video Input Processor



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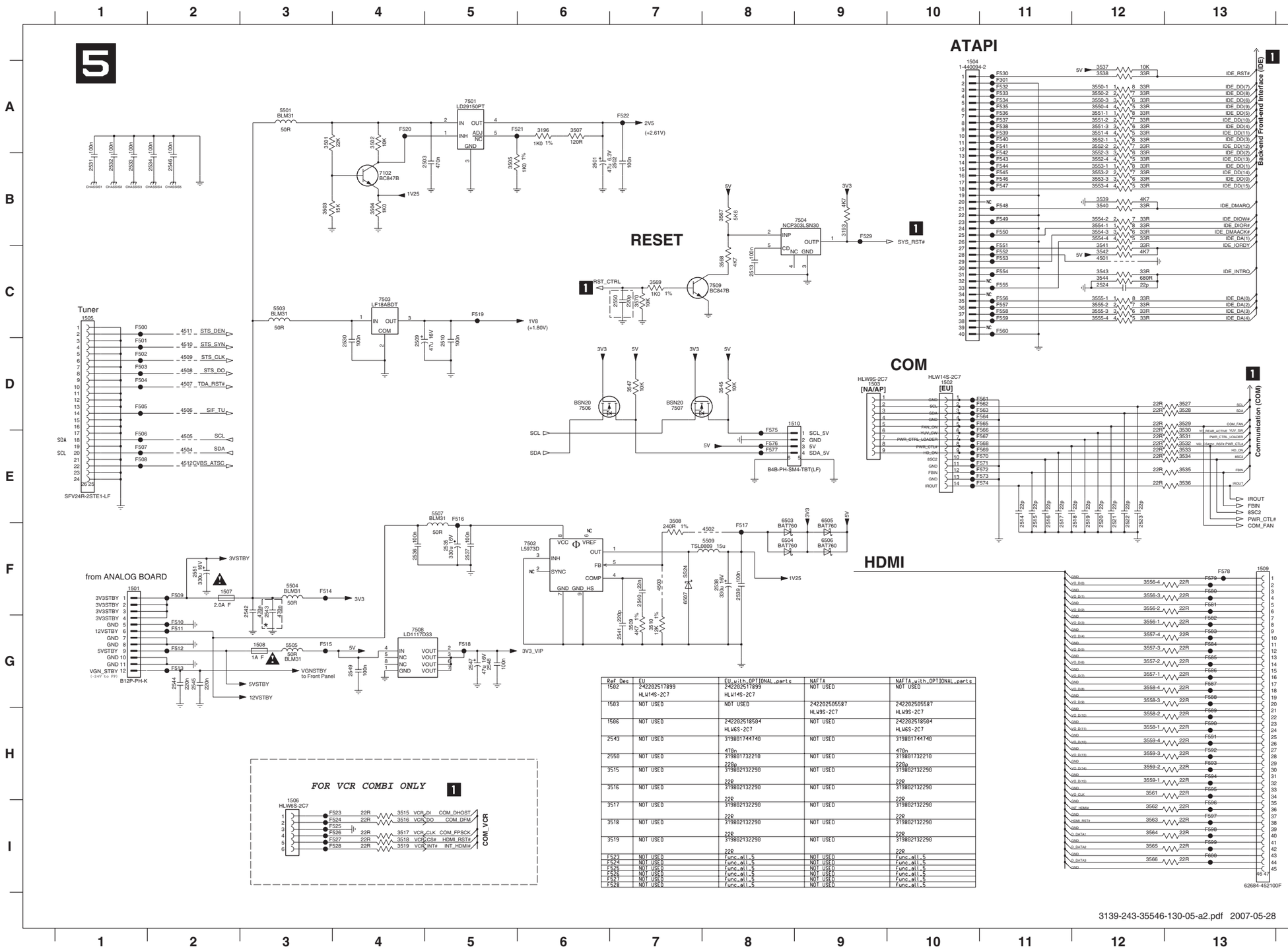
1401	2422025180009 HLW22S-2C7	2422025180009 HLW22S-2C7	NOT USED	NOT USED
1404	NOT USED	NOT USED	2422025179002 HLW18S-2C7	2422025179002 HLW18S-2C7
2492	NOT USED	3198016339100 390p	NOT USED	3198016339100 390p
2493	NOT USED	3198016312100 120p	NOT USED	3198016312100 120p
2494	NOT USED	3198016339100 390p	NOT USED	3198016339100 390p
2495	NOT USED	3198016312100 120p	NOT USED	3198016312100 120p
3422	NOT USED	2322704647009 47R	2322704647009 47R	2322704647009 47R
3429	NOT USED	2322704627009 270	2322704627009 270	2322704627009 270
3434	NOT USED	2322704627009 270	2322704627009 270	2322704627009 270
3458	NOT USED	2322704675009 750	NOT USED	2322704675009 750
3457	NOT USED	2322704647009 47R	2322704647009 47R	2322704647009 47R
4410	NOT USED	3198021900300	NOT USED	3198021900300
4411	NOT USED	3198021900300	NOT USED	3198021900300
4414	3198021900300	NOT USED	3198021900300	NOT USED
4415	NOT USED	NOT USED	3198021900300	3198021900300
4416	NOT USED	NOT USED	3198021900300	3198021900300
4417	NOT USED	3198021900300	3198021900300	3198021900300
4420	3198021900300	NOT USED	3198021900300	NOT USED
5410	NOT USED	3198018547100 470n	NOT USED	3198018547100 470n
5411	NOT USED	3198018547100 470n	NOT USED	3198018547100 470n

1401 A1	3414 A12	F437 G2	
1402 C5	3415 A12	F438 G2	
1403 G2	3416 A7	F439 D5	
1404 G1	3417 A7	F440 E12	
1405 E12	3418 A7	F441 E12	
2401 B7	3419 A6	F442 E12	
2402 B7	3420 A6	F443 E12	
2403 B7	3421 A6	F444 F12	
2404 B7	3422 A6	F445 F12	
2405 B7	3423 A6	F450 G11	
2406 B7	3424 A6	F451 G10	
2407 B7	3425 B5	F452 H12	
2408 B7	3426 B5	F453 H12	
2409 B7	3427 B5	F454 H5	
2410 C7	3428 B5	F455 H8	
2411 C7	3429 B5	F456 I4	
2412 C7	3430 B5	F457 I6	
2413 C7	3431 B5	F458 F11	
2414 E11	3432 C5	F459 F11	
2415 E11	3433 C5	F460 I7	
2416 A10	3434 C5	F461 F12	
2417 A10	3446 F4		
2418 A9	3447 F4		
2419 A9	3448 F4		
2426 F7	3449 F4		
2427 F7	3450 F6		
2428 G4	3451 F9		
2429 G11	3452 G4		
2430 G4	3453 G10		
2431 G3	3454 G9		
2432 G3	3455 G4		
2433 G4	3456 G10		
2434 G4	3457 A6		
2435 G4	3459 B9		
2436 G4	3463 G8		
2437 H10	3464 G8		
2438 H12	3465 G8		
2439 H12	3466 A12		
2440 H12	4401 F7		
2441 H12	4403 F8		
2442 H1	4404 G7		
2443 H2	4405 G7		
2444 H2	4406 G7		
2445 H2	4407 F6		
2446 H2	4408 F3		
2447 H2	4409 F3		
2448 H3	4410 G3		
2449 H3	4411 G3		
2450 H3	4412 A10		
2451 H3	4414 C4		
2452 H4	4415 B4		
2453 H4	4416 C4		
2454 H4	4417 C5		
2455 H4	4418 A5		
2456 H4	4419 F12		
2457 H5	4420 A2		
2458 H6	4421 B3		
2459 H6	4422 B3		
2460 H7	4423 B3		
2461 H7	4424 B3		
2462 H7	4425 B3		
2463 H7	4426 C3		
2464 H8	4427 C3		
2465 I1	4428 C3		
2466 I2	5401 G11		
2467 I2	5402 G10		
2468 I2	5403 G13		
2469 I2	5404 H13		
2470 I3	5405 H1		
2471 I3	5406 I1		
2472 I3	5407 H6		
2473 I3	5408 I5		
2474 I3	5409 I7		
2475 I4	5410 A2		
2476 I4	5411 C4		
2477 I5	7401-1 E12		
2478 I6	7401-2 A11		
2479 I7	7401-3 A8		
2480 I7	7401-4 E8		
2483 B7	7401-5 H8		
2484 C7	F401 B1		
2491 F12	F402 B1		
2492 A2	F403 B1		
2493 A2	F404 B1		
2494 D3	F405 B1		
2495 D4	F406 B1		
2496 H13	F407 B1		
2497 E6	F408 B1		
2498 E6	F409 C1		
2499 C2	F410 C1		
2700 C2	F411 C1		
2701 C2	F412 C1		
2702 C2	F413 C1		
2703 C2	F414 D5		
2704 C2	F415 D5		
2705 C3	F416 D5		
2706 C3	F417 D5		
2707 C3	F418 D5		
2708 D6	F419 D5		
3401-1 C9	F420 D5		
3401-2 B9	F421 E5		
3401-3 B9	F422 E5		
3401-4 B9	F423 E5		
3402-1 C9	F424 E5		
3402-2 C9	F425 F2		
3402-3 C9	F426 F2		
3402-4 C9	F427 F2		
3403 E10	F428 F2		
3404 E10	F429 F2		
3405 F10	F430 F2		
3406 E11	F431 F2		
3408 E11	F432 F2		
3410 A10	F433 F2		
3411 A9	F434 G2		
3412 A10	F435 G2		
3413 A10	F436 G2		

Digital: Power Supply & Interfaces



Ref. Des	EU	EU with OPTIONAL parts	NAFTA	NAFTA with OPTIONAL parts
1502	242202517899 HLW14S-2C7	242202517899 HLW14S-2C7	NOT USED	NOT USED
1503	NOT USED	NOT USED	242202505587 HLW9S-2C7	242202505587 HLW9S-2C7
1506	NOT USED	242202518504 HLW6S-2C7	NOT USED	242202518504 HLW6S-2C7
2543	NOT USED	319801744740 470n	NOT USED	319801744740 470n
2550	NOT USED	319801732210 220p	NOT USED	319801732210 220p
3515	NOT USED	319802132290 22R	NOT USED	319802132290 22R
3516	NOT USED	319802132290 22R	NOT USED	319802132290 22R
3517	NOT USED	319802132290 22R	NOT USED	319802132290 22R
3518	NOT USED	319802132290 22R	NOT USED	319802132290 22R
3519	NOT USED	319802132290 22R	NOT USED	319802132290 22R
F523	NOT USED	Func_all_5	NOT USED	Func_all_5
F524	NOT USED	Func_all_5	NOT USED	Func_all_5
F525	NOT USED	Func_all_5	NOT USED	Func_all_5
F526	NOT USED	Func_all_5	NOT USED	Func_all_5
F527	NOT USED	Func_all_5	NOT USED	Func_all_5
F528	NOT USED	Func_all_5	NOT USED	Func_all_5

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1501 F1	3557-4 G12	F565 D10
1502 D10	3558-1 H12	F566 E10
1503 D9	3558-2 H12	F567 E10
1504 A10	3558-3 G12	F568 E10
1505 C1	3558-4 G12	F569 E10
1506 I3	3559-1 H12	F570 E10
1507 F2	3559-2 H12	F571 E10
1508 G3	3559-3 H12	F572 E10
1509 F13	3559-4 H12	F573 E10
1510 D8	3561 H12	F574 E10
2501 B6	3562 I12	F575 E8
2502 B7	3563 I12	F576 E8
2503 B4	3564 I12	F577 E8
2509 D4	3565 I12	F578 F13
2510 D5	3566 I12	F579 F13
2513 C8	3567 B8	F580 F13
2514 E11	3568 C8	F581 F13
2515 E11	3569 C7	F582 G13
2516 E11	3570 C7	F583 G13
2517 E11	4501 C12	F584 G13
2518 E12	4502 F8	F585 G13
2519 E12	4503 F7	F586 G13
2520 E12	4504 E2	F587 G13
2521 E12	4505 E2	F588 G13
2522 E12	4506 D2	F589 H13
2523 E12	4507 D2	F590 H13
2524 C12	4508 D2	F591 H13
2530 D4	4509 D2	F592 H13
2531 B1	4510 D2	F593 H13
2532 B1	4511 C2	F594 H13
2533 B1	4512 E2	F595 H13
2534 B2	5501 A3	F596 I13
2535 F5	5503 C3	F597 I13
2536 F4	5504 F3	F598 I13
2537 F5	5505 G3	F599 I13
2538 F8	5507 E5	F600 I13
2539 F9	5509 F8	
2540 F7	6503 E8	
2541 G7	6504 F8	
2542 F3	6505 E9	
2543 F3	6506 F9	
2544 G2	6507 F7	
2545 G2	7102 B4	
2546 B2	7501 A5	
2547 G5	7502 F6	
2548 G5	7503 C4	
2549 G4	7504 B9	
2550 C7	7506 D6	
2551 F2	7507 D7	
3193 B9	7508 G4	
3196 A6	7509 C8	
3501 A3	F301 A11	
3502 A4	F500 C1	
3503 B3	F501 D1	
3504 B4	F502 D1	
3505 B5	F503 D1	
3507 A6	F504 D1	
3508 F7	F505 D1	
3509 G7	F506 E1	
3510 G7	F507 E1	
3515 I4	F508 E1	
3516 I4	F509 F2	
3517 I4	F510 G2	
3518 I4	F511 G2	
3519 I4	F512 G2	
3527 D13	F513 G2	
3528 D13	F514 F3	
3529 D13	F515 G3	
3530 E13	F516 E5	
3531 E13	F517 F8	
3532 E13	F518 G5	
3533 E13	F519 C5	
3534 E13	F520 A4	
3535 E13	F521 A6	
3536 E13	F522 A7	
3537 A12	F523 I3	
3538 A12	F524 I3	
3539 B12	F525 I3	
3540 B12	F526 I3	
3541 C12	F527 I3	
3542 C12	F528 I3	
3543 C12	F529 B9	
3544 C12	F530 A11	
3545 D8	F532 A11	
3547 D7	F533 A11	
3550-1 A12	F534 A11	
3550-2 A12	F535 A11	
3550-3 A12	F536 A11	
3550-4 A12	F537 A11	
3551-1 A12	F538 A11	
3551-2 A12	F539 A11	
3551-3 A12	F540 A11	
3551-4 A12	F541 A11	
3552-1 A12	F542 B11	
3552-2 A12	F543 B11	
3552-3 B12	F544 B11	
3552-4 B12	F545 B11	
3553-1 B12	F546 B11	
3553-2 B12	F547 B11	
3553-3 B12	F548 B11	
3553-4 B12	F549 B11	
3554-1 B12	F550 B11	
3554-2 B12	F551 C11	
3554-3 B12	F552 C11	
3554-4 B12	F553 C11	
3555-1 C12	F554 C11	
3555-2 C12	F555 C11	
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3556-1 G12	F558 C11	
3556-2 F12	F559 C11	
3556-3 F12	F560 C11	
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3557-3 G12	F564 D10	

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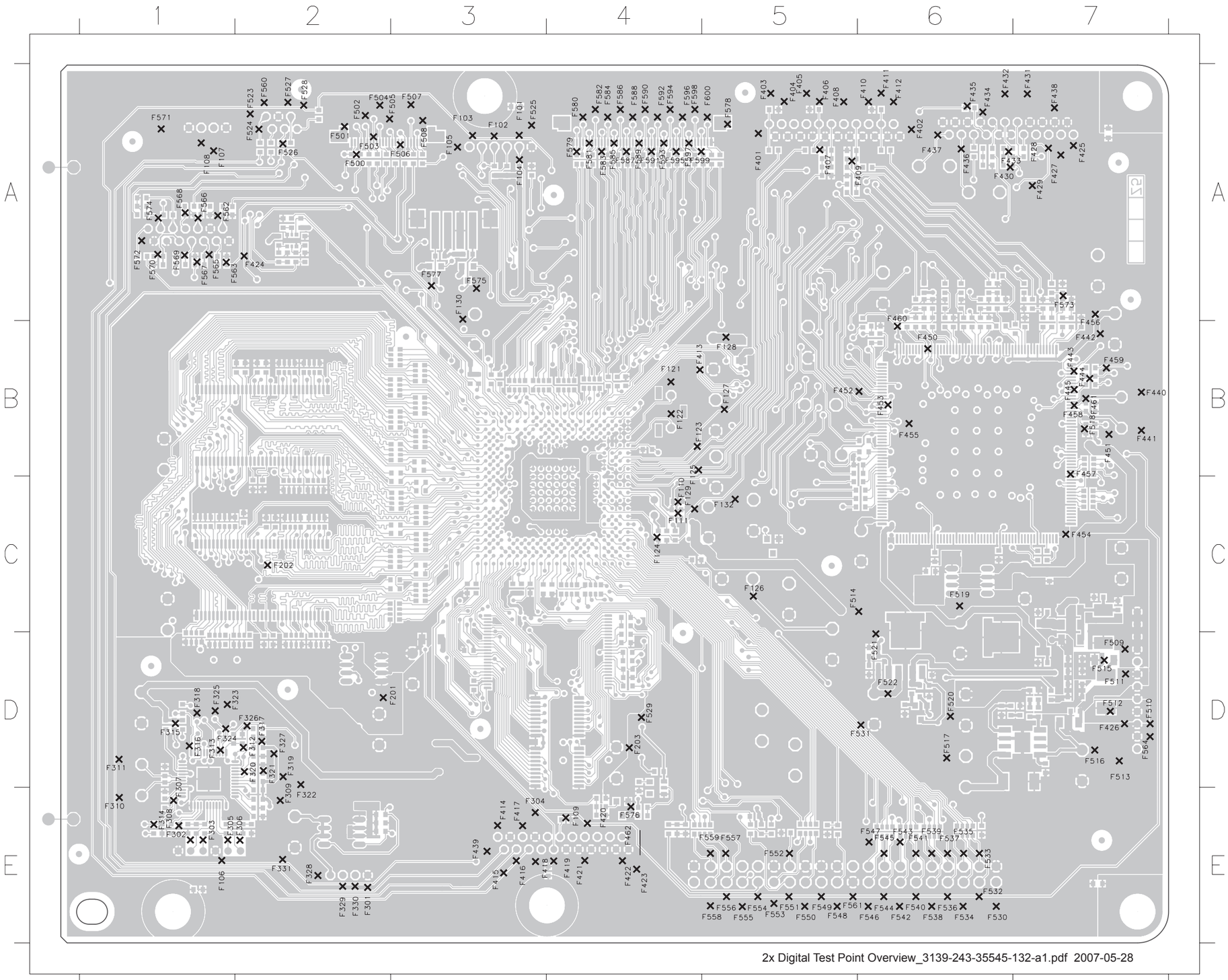
Layout: Digital Board Testpoint Overview



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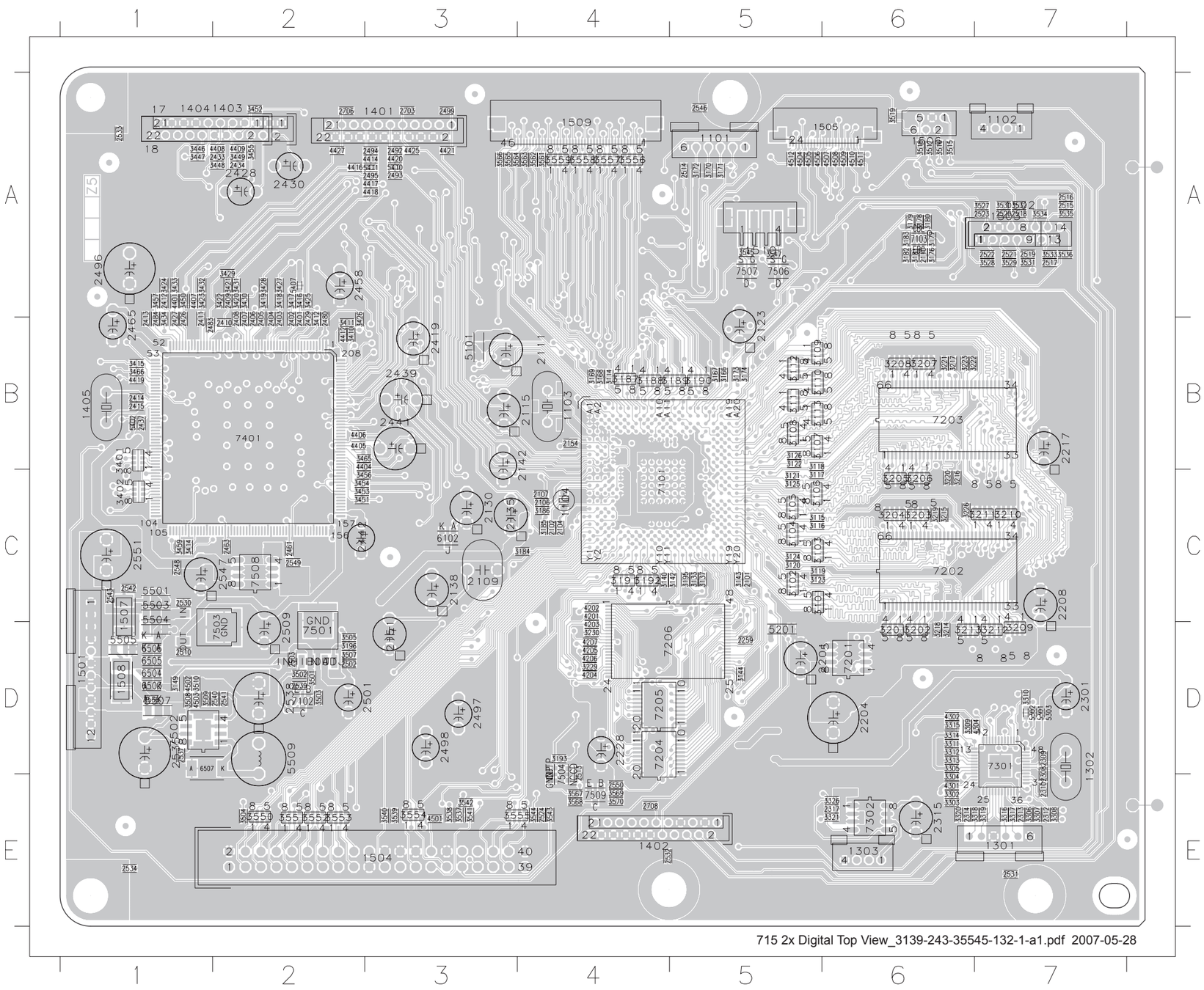
F101	A3	F431	A7	F559	E5
F102	A3	F432	A6	F560	A2
F103	A3	F433	A6	F561	E5
F104	A3	F434	A6	F562	A1
F105	A3	F435	A6	F563	A1
F106	E1	F436	A6	F564	D7
F107	A1	F437	A6	F565	A1
F108	A1	F438	A7	F566	A1
F109	E4	F439	E3	F567	A1
F110	C4	F440	B7	F568	A1
F111	C4	F441	B7	F569	A1
F121	B4	F442	B7	F570	A1
F122	B4	F443	B7	F571	A1
F123	B4	F444	B7	F572	A1
F124	C4	F445	B7	F573	A7
F125	B4	F450	B6	F574	A1
F126	C5	F451	B7	F575	A3
F127	B5	F452	B6	F576	E4
F128	B5	F453	B6	F577	A3
F129	C4	F454	C7	F578	A5
F130	A3	F455	B6	F579	A4
F132	C5	F456	A7	F580	A4
F201	D2	F457	B7	F581	A4
F202	C2	F458	B7	F582	A4
F203	D4	F459	B7	F583	A4
F301	E2	F460	B6	F584	A4
F302	E1	F461	B7	F585	A4
F303	E1	F500	A2	F586	A4
F304	E3	F501	A2	F587	A4
F305	E1	F502	A2	F588	A4
F306	E2	F503	A2	F589	A4
F307	E1	F504	A2	F590	A4
F308	E1	F505	A2	F591	A4
F309	E2	F506	A3	F592	A4
F310	E1	F507	A3	F593	A4
F311	D1	F508	A3	F594	A4
F312	D2	F509	D7	F595	A4
F313	D1	F510	D7	F596	A4
F314	E1	F511	D7	F597	A4
F315	D1	F512	D7	F598	A4
F316	D1	F513	D7	F599	A4
F317	D2	F514	C6	F600	A5
F318	D1	F515	D7		
F319	D2	F516	D7		
F320	D2	F517	D6		
F321	D2	F518	B7		
F322	D2	F519	C6		
F323	D1	F520	D6		
F324	D1	F521	D6		
F325	D1	F522	D6		
F326	D2	F523	A2		
F327	D2	F524	A2		
F328	E2	F525	A3		
F329	E2	F526	A2		
F330	E2	F527	A2		
F331	E2	F528	A2		
F401	A5	F529	D4		
F402	A6	F530	E6		
F403	A5	F531	D6		
F404	A5	F532	E6		
F405	A5	F533	E6		
F406	A5	F534	E6		
F407	A5	F535	E6		
F408	A5	F536	E6		
F409	A5	F537	E6		
F410	A6	F538	E6		
F411	A6	F539	E6		
F412	A6	F540	E6		
F413	B4	F541	E6		
F414	E3	F542	E6		
F415	E3	F543	E6		
F416	E3	F544	E6		
F417	E3	F545	E6		
F418	E3	F546	E6		
F419	E4	F547	E6		
F420	E4	F548	E5		
F421	E4	F549	E5		
F422	E4	F550	E5		
F423	E4	F551	E5		
F424	A2	F552	E5		
F425	A7	F553	E5		
F426	D7	F554	E5		
F427	A7	F555	E5		
F428	A7	F556	E5		
F429	A7	F557	E5		
F430	A6	F558	E5		

Layout: Digital (Top View)



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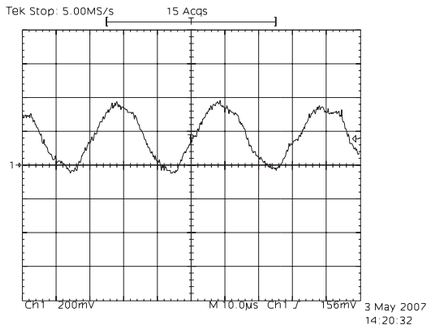
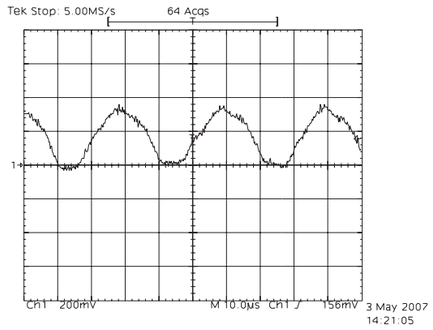
1102	A7	2492	A3	3171	A5	3424	A1	4207	D4		
1103	B4	2493	A3	3172	A5	3425	A2	4301	E6		
1104	C4	2494	A3	3173	B5	3426	B2	4302	D6		
1301	E7	2495	A3	3174	B5	3427	A2	4304	D7		
1302	D7	2496	A1	3176	A6	3428	A2	4401	A1		
1303	E6	2497	D3	3177	A6	3429	A2	4404	B2		
1401	A3	2498	D3	3178	A6	3430	A2	4405	B2		
1402	E4	2499	A3	3179	A6	3431	A2	4406	B2		
1403	A2	2501	D3	3180	A6	3432	A1	4407	A1		
1404	A1	2502	D2	3181	A6	3433	A1	4408	A2		
1405	B1	2503	D2	3182	A6	3434	B1	4409	A2		
1501	D1	2509	D2	3183	A6	3446	A1	4412	B2		
1502	A7	2510	D1	3184	C4	3447	A1	4414	A3		
1503	A7	2513	D4	3185	C4	3448	A2	4416	A2		
1504	E3	2514	A5	3186	C4	3449	A2	4417	A3		
1505	A6	2515	A7	3187	B4	3450	A1	4418	A3		
1506	A6	2516	A7	3188	B4	3451	C2	4419	B1		
1507	C1	2517	A7	3189	B5	3452	A2	4420	A3		
1508	D1	2518	A7	3190	B5	3453	C2	4421	A3		
1509	A4	2519	A7	3191	C4	3454	C2	4425	A3		
1510	A5	2520	A7	3192	C4	3455	A2	4427	A2		
2101	C5	2521	A7	3193	D4	3456	C2	4501	E3		
2102	C4	2522	A7	3195	C5	3457	A1	4502	D1		
2104	C4	2523	A7	3196	D2	3459	C1	4503	D1		
2106	C4	2524	E4	3201	D6	3465	B2	4504	A5		
2107	C4	2530	C1	3202	D6	3466	B1	4505	A5		
2109	C3	2531	E7	3203	C6	3501	D2	4506	A5		
2110	A6	2532	E4	3204	C6	3502	D2	4507	A6		
2111	B4	2533	A1	3205	C6	3503	D2	4508	A6		
2115	B4	2534	E1	3206	C6	3504	E2	4509	A6		
2123	B5	2535	D1	3207	B6	3505	D2	4510	A6		
2130	C3	2536	D1	3208	B6	3507	D2	4511	A6		
2135	C3	2537	D1	3209	D7	3508	D1	4512	A5		
2138	C3	2538	D2	3210	C7	3509	D1	5101	B3		
2142	B4	2539	D2	3211	C7	3510	D1	5201	D5		
2151	D3	2540	D2	3212	D7	3515	A6	5301	D7		
2154	B4	2541	D2	3213	D6	3516	A6	5302	D7		
2201	D6	2542	C1	3214	D6	3517	A6	5303	D7		
2204	D6	2543	C1	3215	C6	3518	A6	5402	B1		
2208	C7	2546	A5	3216	C6	3519	A6	5407	A2		
2217	B7	2547	C2	3217	B6	3527	A7	5410	A3		
2228	D4	2548	C1	3218	D6	3528	A7	5411	A3		
2229	D5	2549	C2	3219	C6	3529	A7	5501	C1		
2301	D7	2550	E4	3220	C6	3530	A7	5503	C1		
2308	D7	2551	C1	3221	B6	3531	A7	5504	C1		
2309	D7	2703	A3	3222	B6	3532	A7	5505	D1		
2310	E7	2706	A2	3223	B6	3533	A7	5507	D1		
2312	E7	2708	E4	3226	C6	3534	A7	5509	D2		
2313	E7	3101	C5	3229	D4	3535	A7	6102	C3		
2314	E6	3102	C5	3230	D4	3536	A7	6503	D1		
2315	E6	3103	C5	3302	E6	3537	E3	6504	D1		
2317	E6	3104	C5	3303	E6	3538	E3	6505	D1		
2401	B2	3105	C5	3304	E6	3539	E3	6506	D1		
2402	B2	3106	C5	3305	D6	3540	E3	6507	D1		
2403	B2	3107	B5	3306	E7	3541	E3	7101	C4		
2404	B2	3108	B5	3307	E7	3542	E3	7102	D2		
2405	B2	3109	B5	3308	E7	3543	E4	7103	A6		
2406	B2	3110	B5	3309	D6	3544	E4	7201	D6		
2407	B2	3111	B5	3310	D7	3545	A5	7202	C6		
2408	B2	3112	B5	3311	D6	3547	A5	7203	B6		
2409	A2	3113	B5	3312	D6	3550	E2	7204	D4		
2410	B2	3114	B4	3313	D6	3551	E2	7205	D4		
2411	B1	3115	C5	3314	D6	3552	E2	7206	D4		
2412	A1	3116	C5	3315	D6	3553	E2	7301	D7		
2413	B1	3117	C5	3316	E7	3554	E3	7302	E6		
2414	B1	3118	B5	3317	E7	3555	E3	7401	B2		
2415	B1	3119	C5	3318	E7	3556	A4	7501	D2		
2419	B3	3120	C5	3319	E7	3557	A4	7502	D1		
2426	B1	3121	C5	3320	E6	3558	A4	7503	D2		
2427	B1	3122	B5	3321	E6	3559	A4	7504	E4		
2428	A2	3123	C5	3326	E6	3561	A4	7506	A5		
2429	B2	3124	C5	3401	B1	3562	A4	7507	A5		
2430	A2	3125	C5	3402	C1	3563	A4	7508	C2		
2433	A2	3126	B5	3410	B2	3564	A3	7509	E4		
2434	A2	3133	C5	3411	B2	3565	A3				
2437	B1	3137	C5	3412	B2	3566	A3				
2439	B3	3140	C4	3414	C1	3567	E4				
2441	B3	3142	C5	3415	B1	3568	E4				
2442	C2	3143	C5	3416	A2	3569	E4				
2458	A2	3144	D5	3417	A2	3570	E4				
2461	C2	3149	D1	3418	A2	4201	C4				
2463	C2	3166	B5	3419	A2	4202	C4				
2465	B1	3167	B5	3420	A2	4203	D4				
2480	B2	3168	B4	3421	A2	4204	D4				
2483	B1	3169	B4	3422	A2	4205	D4				

Digital Board Waveforms

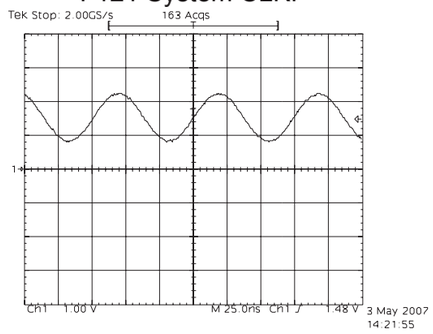
F110 RTC CLKI



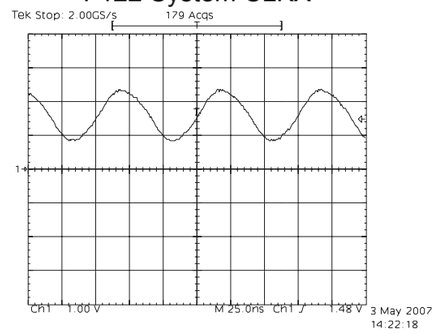
F111 RTC CLKX



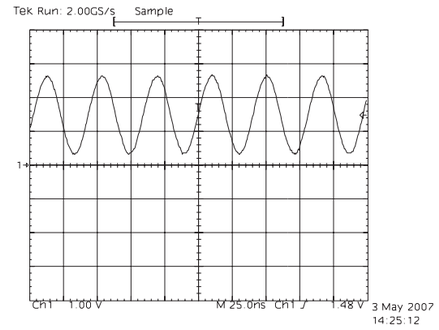
F121 System CLKI



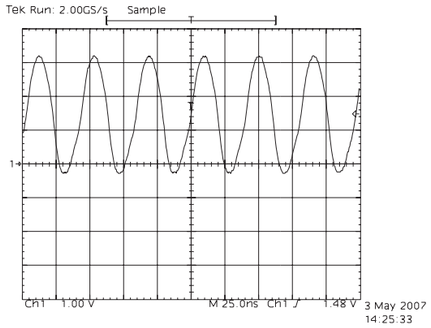
F122 System CLKX



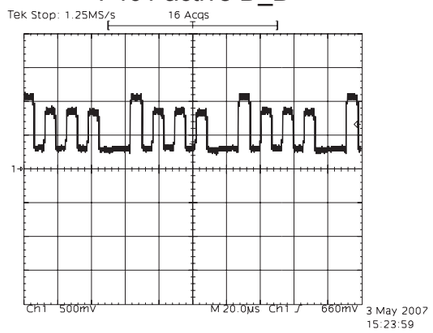
F310 XI



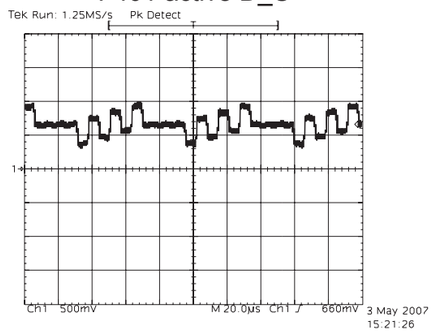
F311 XO



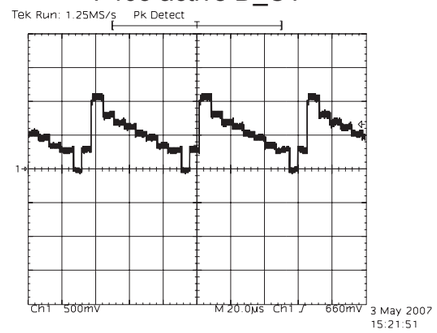
F401 active D_B



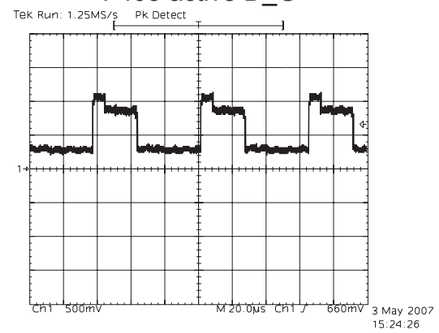
F401 active D_U



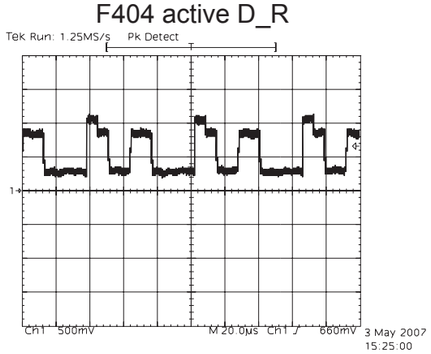
F403 active D_CY



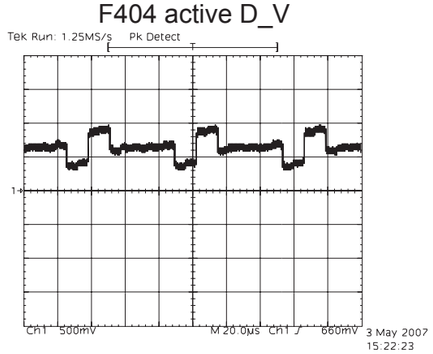
F403 active D_G



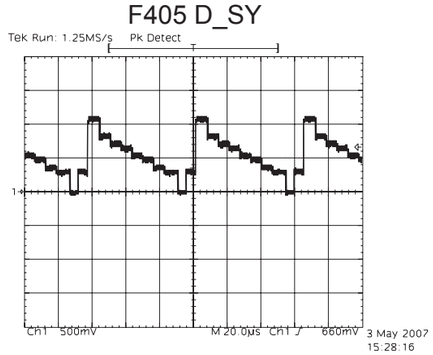
F404 active D_R



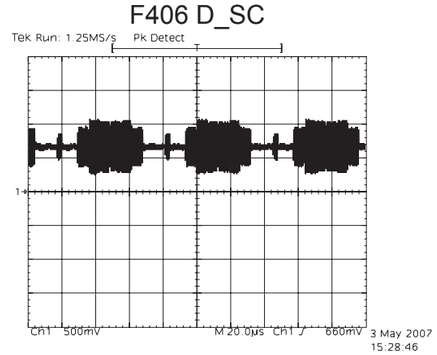
F404 active D_V



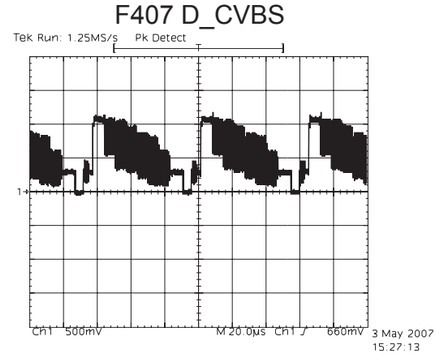
F405 D_SY



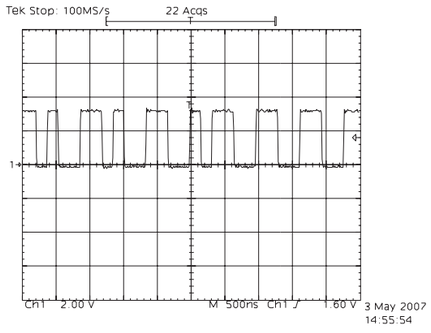
F406 D_SC



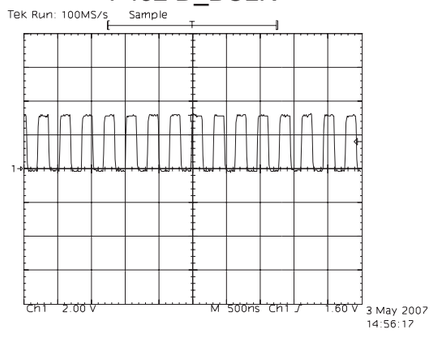
F407 D_CVBS



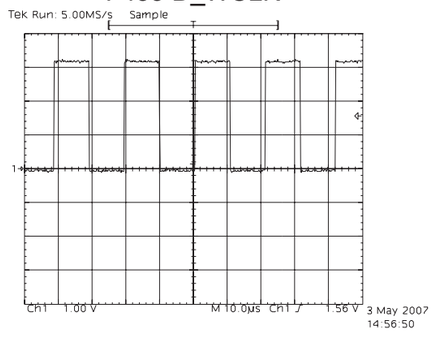
F431 DAOUT SPDIF



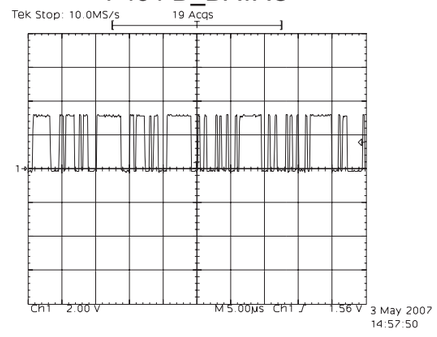
F432 D_BCLK



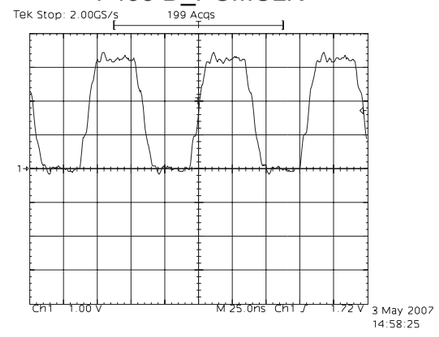
F433 D_WCLK



F434 D_DATAO

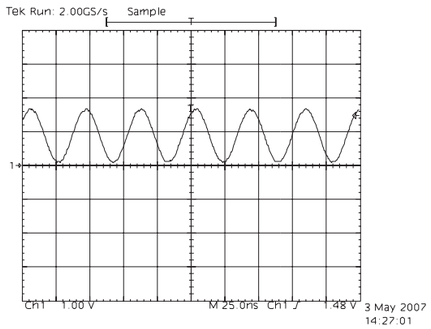


F435 D_PCMCLK

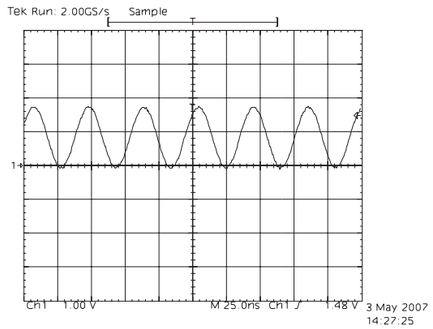


Digital Board Waveforms

F440 VIP XTALI



F441 VIP XTALO



Exploded View of the Set

FRONT ASSY 0901

0102
0120
0122
0124
0126
0128
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0132
0133
0134
0136
0138
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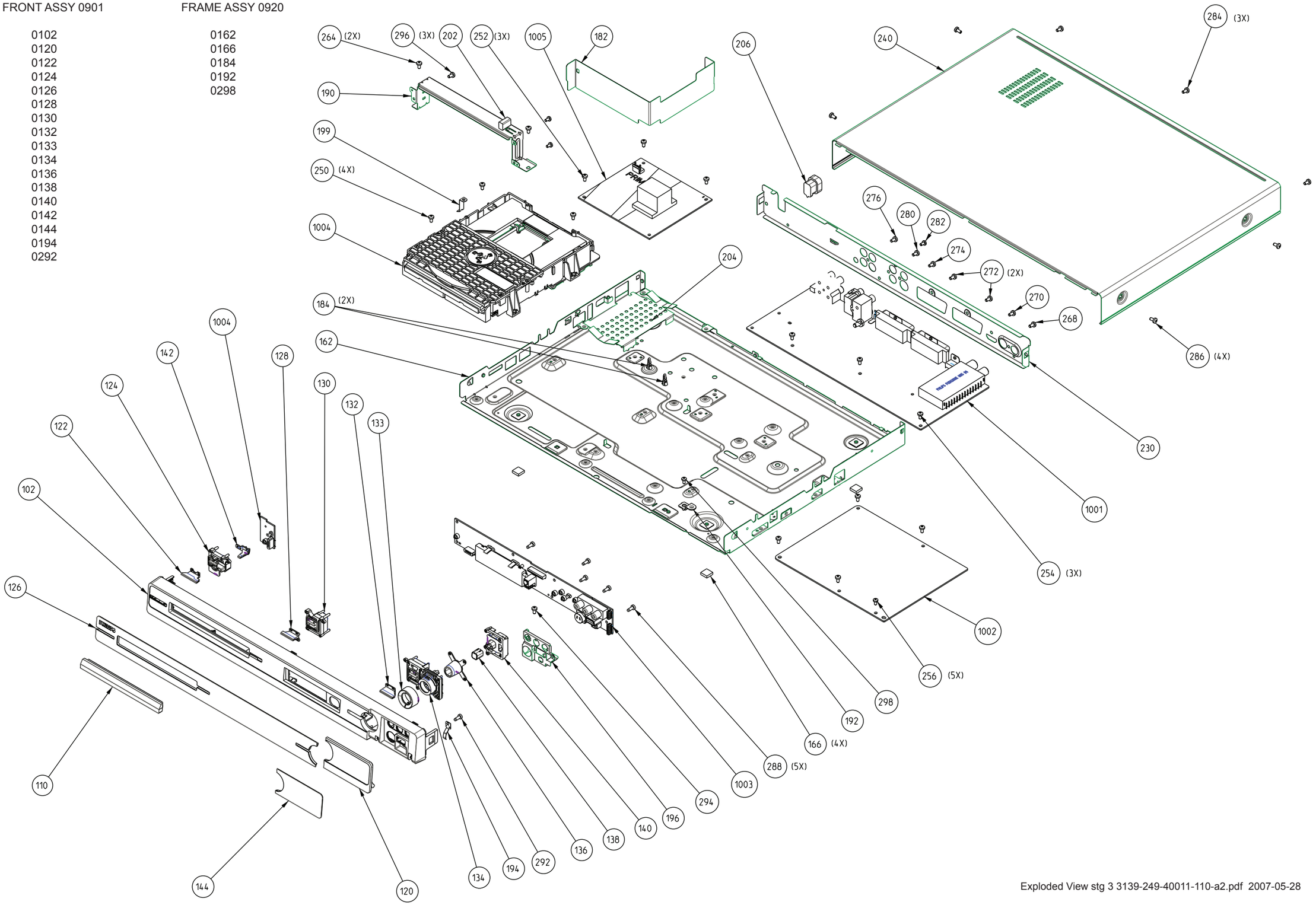
0142
0144
0194
0292

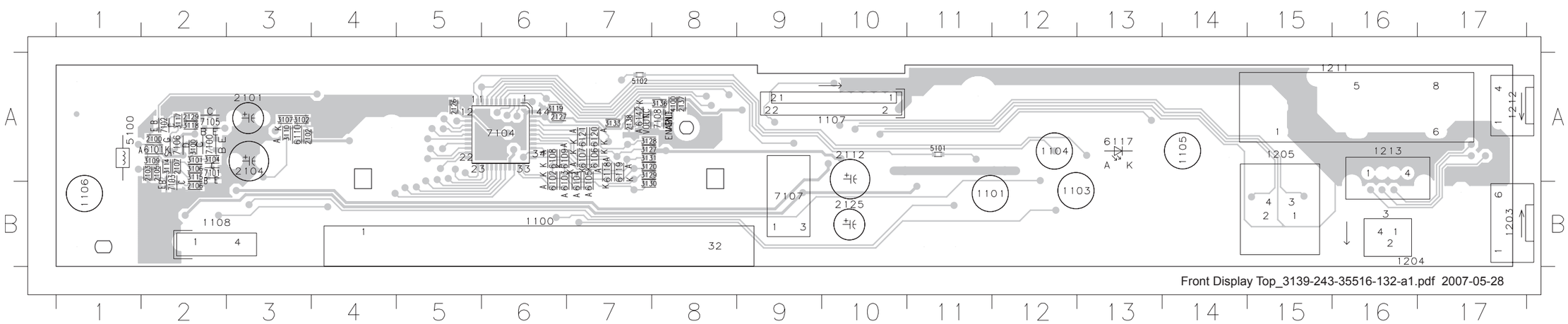
FRAME ASSY 0920

0162
0166
0184
0192
0298



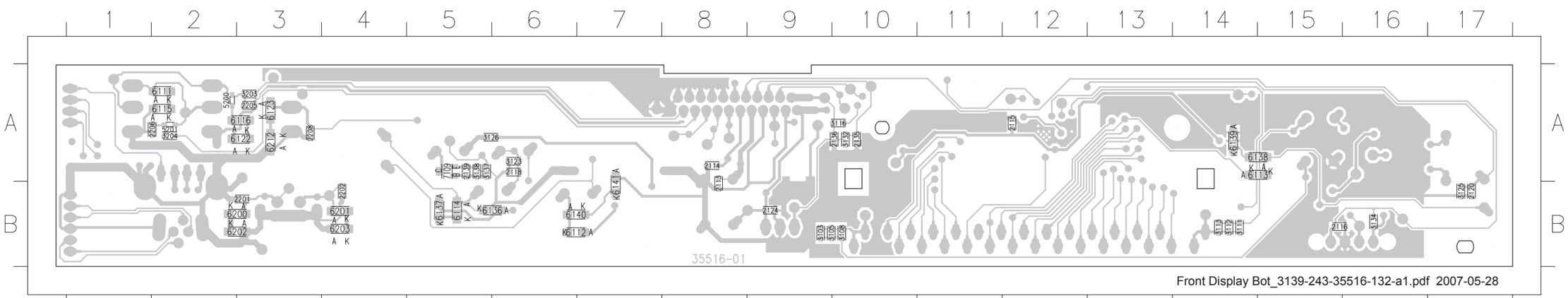
Layout: Front Board (Top View)

1100 B6 1105 A14 1203 B17 1212 A17 2102 A3 2106 B2 2126 A5 2138 A7 3104 A2 3110 A3 3118 A2 3128 A7 3133 A7 5101 A11 6103 A6 6107 A7 6117 A13 6121 A7 7102 A2 7106 A2
1101 B11 1106 B1 1204 B16 1213 A16 2103 A2 2107 A2 2127 A6 3100 A2 3106 A2 3114 A2 3119 A6 3129 A7 3136 A8 5102 A7 6104 A7 6108 A6 6118 A7 6142 A7 7103 B2 7107 B9
1103 B12 1107 A10 1205 A15 2100 A2 2104 A3 2112 A10 2129 A2 3101 A2 3107 A3 3115 A2 3120 A7 3130 B7 4100 A8 6101 A2 6105 A7 6109 A6 6119 A7 7100 A2 7104 A6 7108 A8
1104 A12 1108 B2 1211 A16 2101 A3 2105 A2 2125 B10 2137 A8 3102 A3 3109 A2 3117 A2 3127 A7 3131 A7 5100 A1 6102 A6 6106 A7 6110 A3 6120 A7 7101 A2 7105 A2



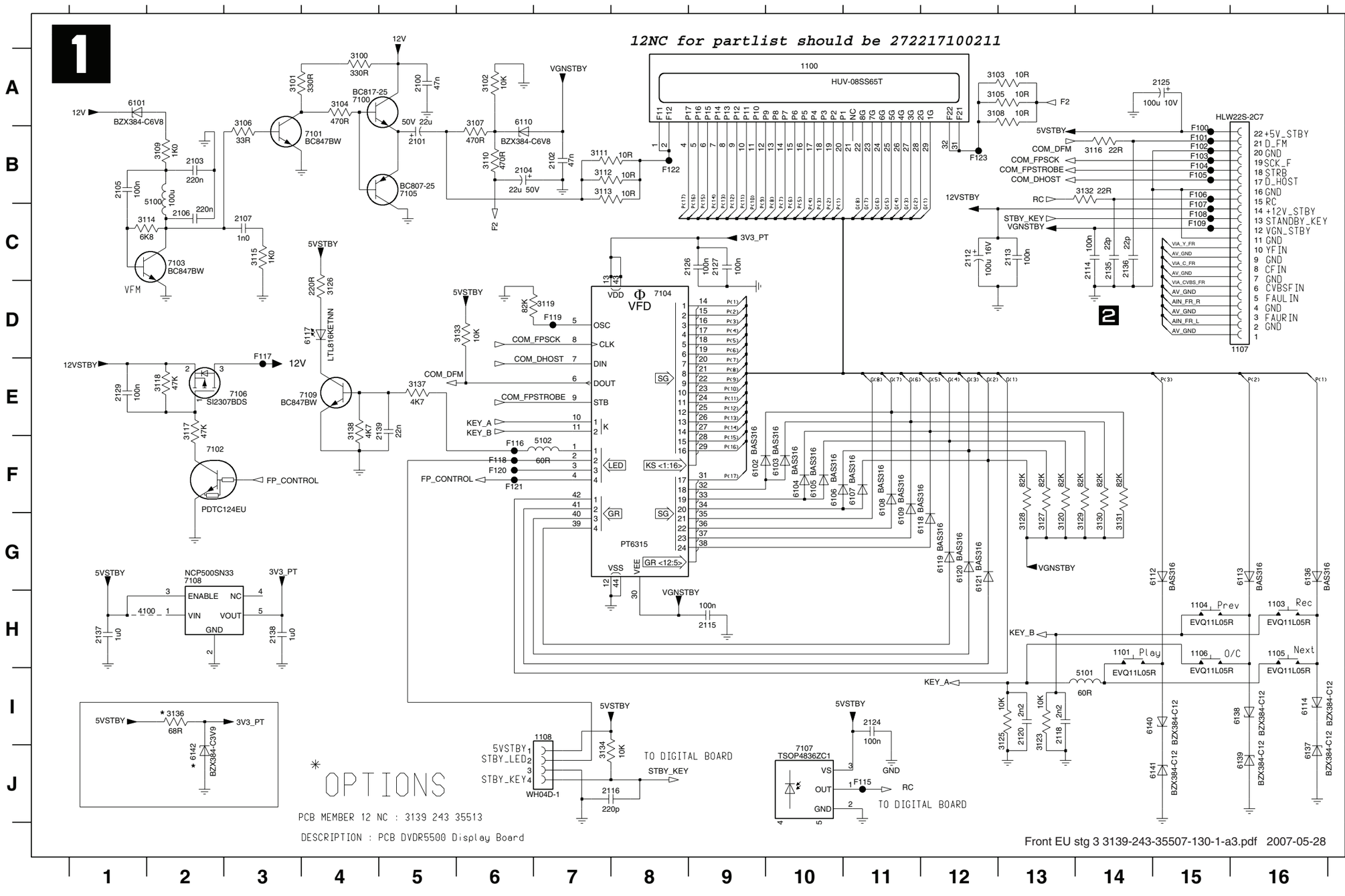
Layout: Front Board (Bottom View)

2113 B8 2116 B15 2124 B9 2139 A5 2205 A3 3103 B9 3111 B14 3116 A10 3126 A5 3137 A5 3204 A2 6111 A2 6114 B5 6122 A3 6137 B5 6140 B6 6201 B4 6212 A3
2114 A8 2118 A6 2135 A10 2201 B3 2206 A2 3105 B9 3112 B14 3123 A6 3132 A10 3138 A5 5200 A2 6112 B6 6115 A2 6123 A3 6138 A15 6141 B7 6202 B3 7109 A5
2115 A12 2120 B17 2136 A10 2202 B4 2208 A3 3108 B10 3113 B14 3125 B17 3134 B16 3203 A3 5201 A2 6113 A15 6116 A3 6136 B6 6139 A14 6200 B3 6203 B4



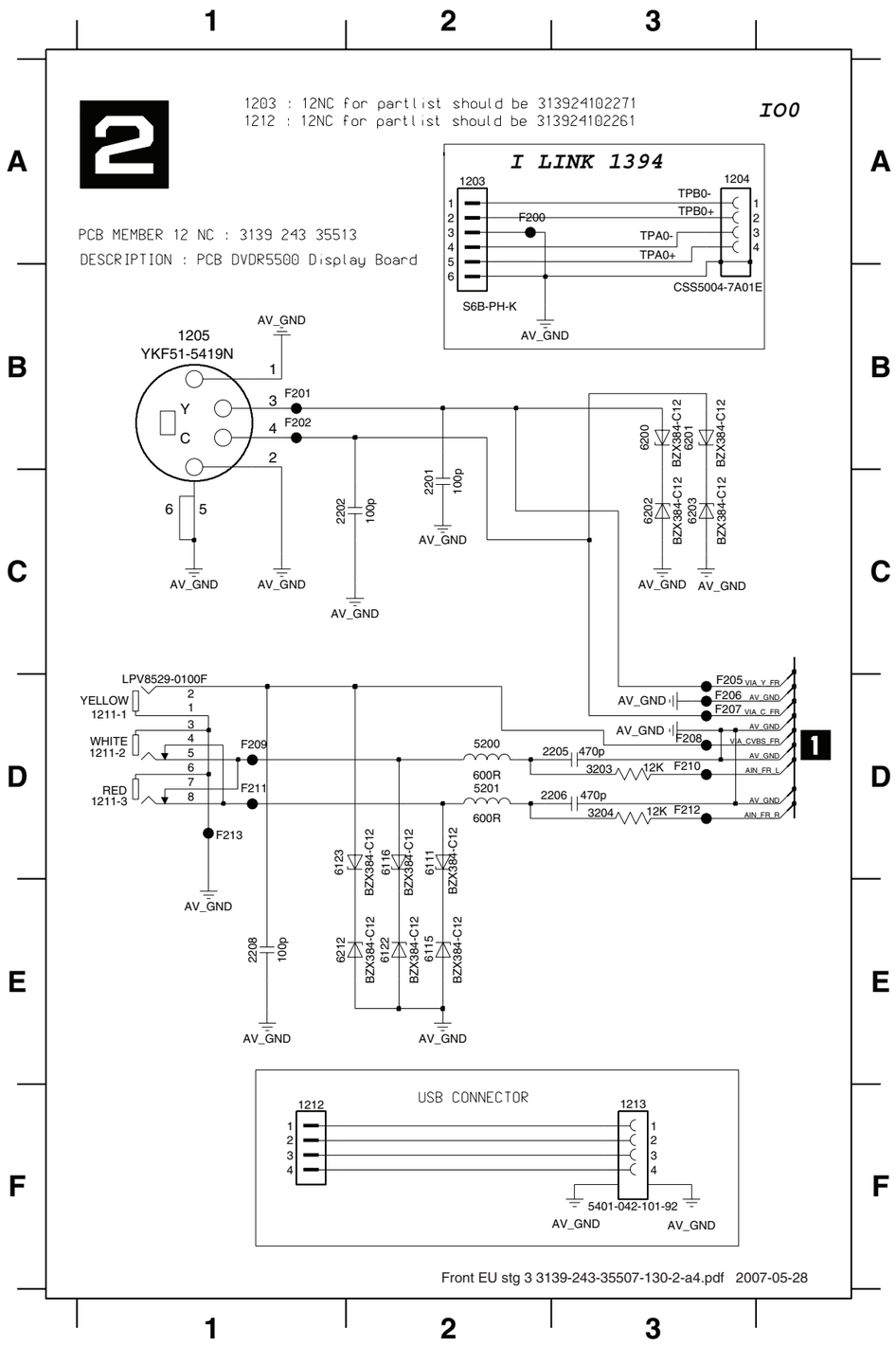
Front Display Bot_3139-243-35516-132-a1.pdf 2007-05-28

Front: Display Part (DISP)



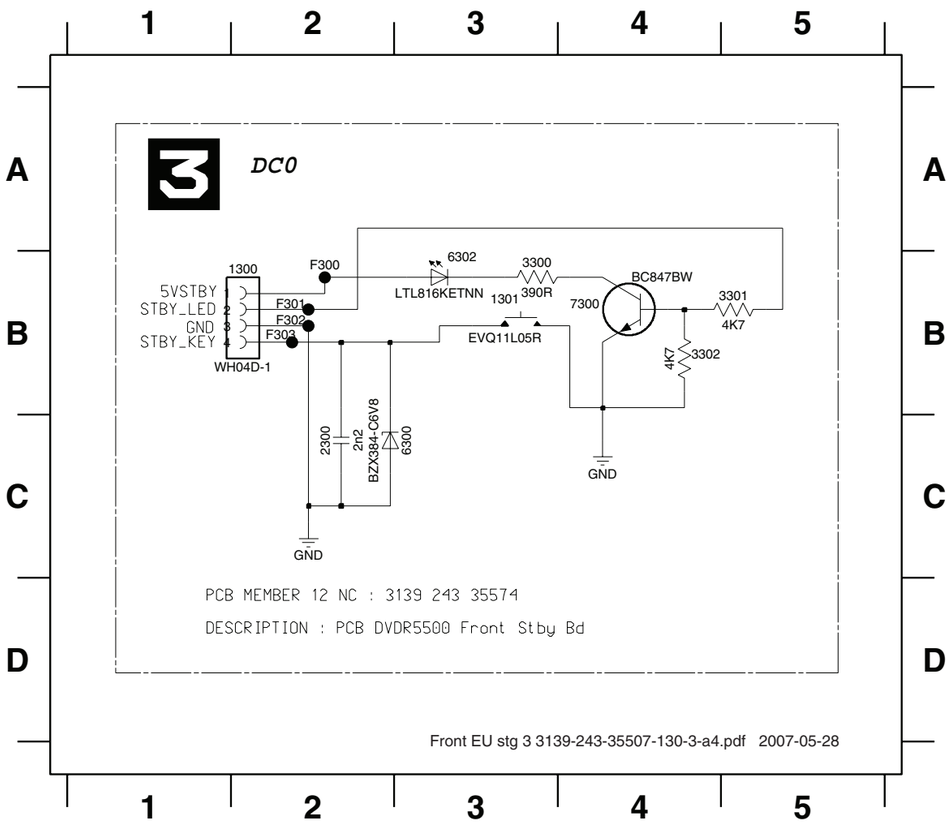
1103 H16 6106 F10
1104 H15 6107 F11
1105 H16 6108 F11
1106 H15 6109 G11
1107 D16 6110 A6
1108 I7 6112 G15
2100 A5 6113 G16
2101 B5 6114 I16
2102 B7 6117 D4
2103 B2 6118 G12
2104 B6 6119 G12
2105 B1 6120 G12
2106 C2 6121 G12
2107 C3 6136 G16
2112 C12 6137 J16
2113 C13 6138 I16
2114 C14 6139 J16
2115 H9 6140 I14
2116 J7 6141 J15
2118 I13 6142 J2
2120 I13 7100 A4
2124 I11 7101 B4
2125 A15 7102 F2
2126 C8 7103 C2
2127 C9 7104 D8
2129 E1 7105 B5
2135 C14 7106 E3
2136 C14 7107 J10
2137 H1 7108 G2
2138 H3 7109 E4
2139 E5 F100 B15
3100 A4 F101 B15
3101 A3 F102 B15
3102 A6 F103 B15
3103 A12 F104 B15
3104 A4 F105 B15
3105 A12 F106 B15
3106 A3 F107 C15
3107 A6 F108 C15
3108 A12 F109 C15
3109 B2 F115 J11
3110 B6 F116 F6
3111 B7 F117 E3
3112 B7 F118 F6
3113 B7 F119 D7
3114 C1 F120 F6
3115 C3 F121 F6
3116 B14 F122 B8
3117 E2 F123 B12
3118 E2
3119 D7
3120 G13
3123 I13
3125 I13
3126 D4
3127 G13
3128 G13
3129 G14
3130 G14
3131 G14
3132 B14
3133 D6
3134 J7
3136 I2
3137 E5
3138 E4
4100 H1
5100 B2
5101 I14
5102 F7
6101 A1
6102 F9
6103 F10

Front: Front Connector (FC)



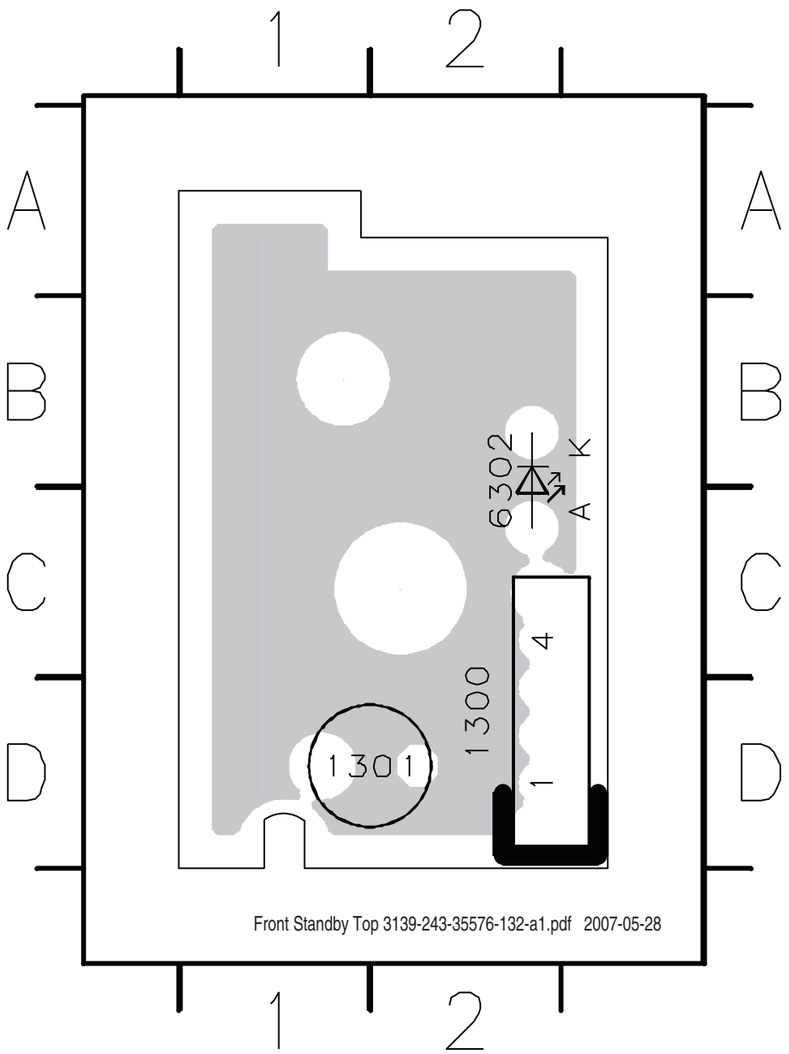
1203 A2
1204 A3
1205 B1
1211-1 D1
1211-2 D1
1211-3 D1
1212 F1
1213 F3
2201 C2
2202 C1
2205 D3
2206 D3
2208 E1
3203 D3
3204 D3
5200 D2
5201 D2
6111 D2
6115 E2
6116 D2
6122 E2
6123 D1
6200 B3
6201 B3
6202 C3
6203 C3
6212 E1
F200 A2
F201 B1
F202 B1
F205 D3
F206 D3
F207 D3
F208 D3
F209 D1
F210 D3
F211 D1
F212 D3
F213 D1

Front: Standby (STBY)



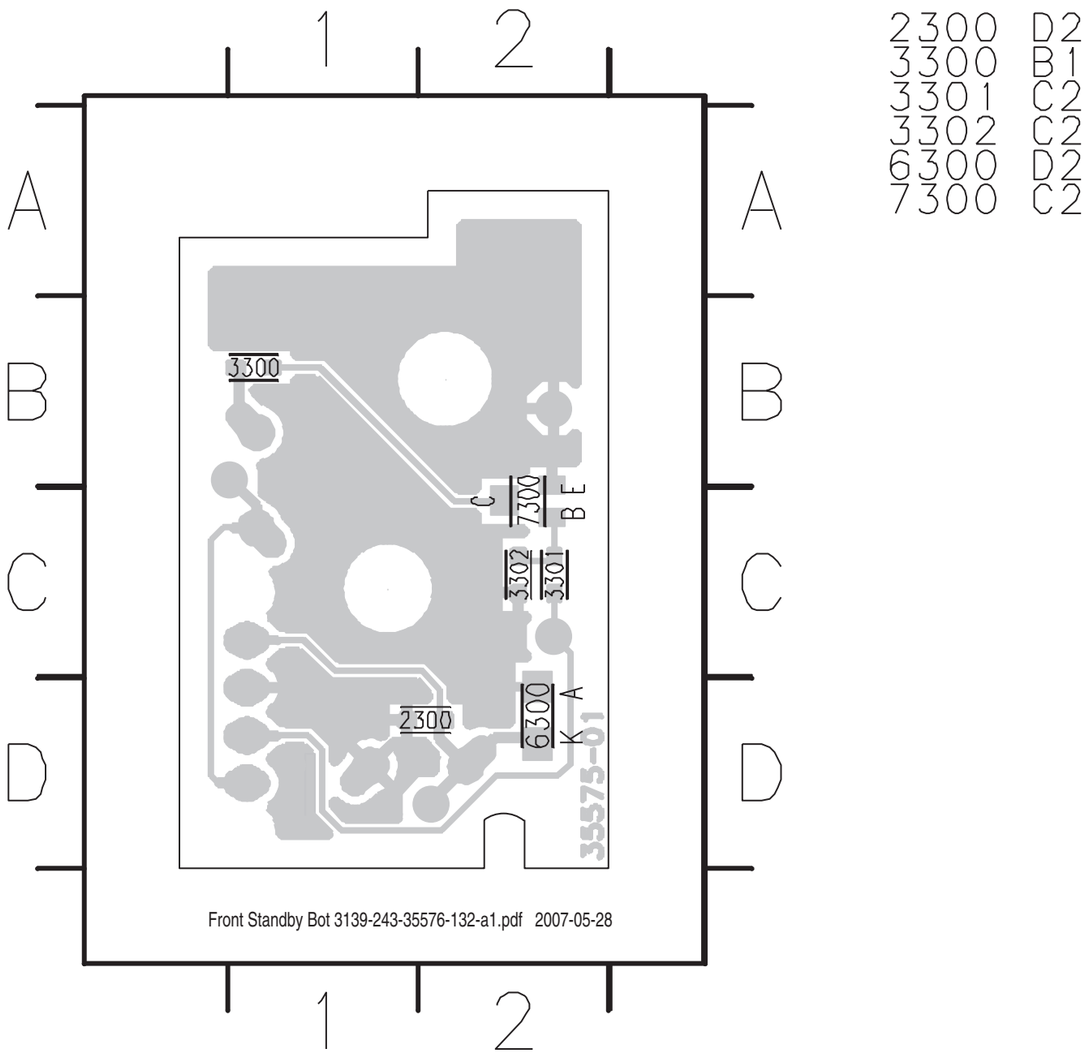
1300 B2
1301 B3
2300 C2
3300 B3
3301 B5
3302 B4
6300 C3
6302 B3
7300 B4
F300 B2
F301 B2
F302 B2
F303 B2

Layout: Front Standby Board (Top View)



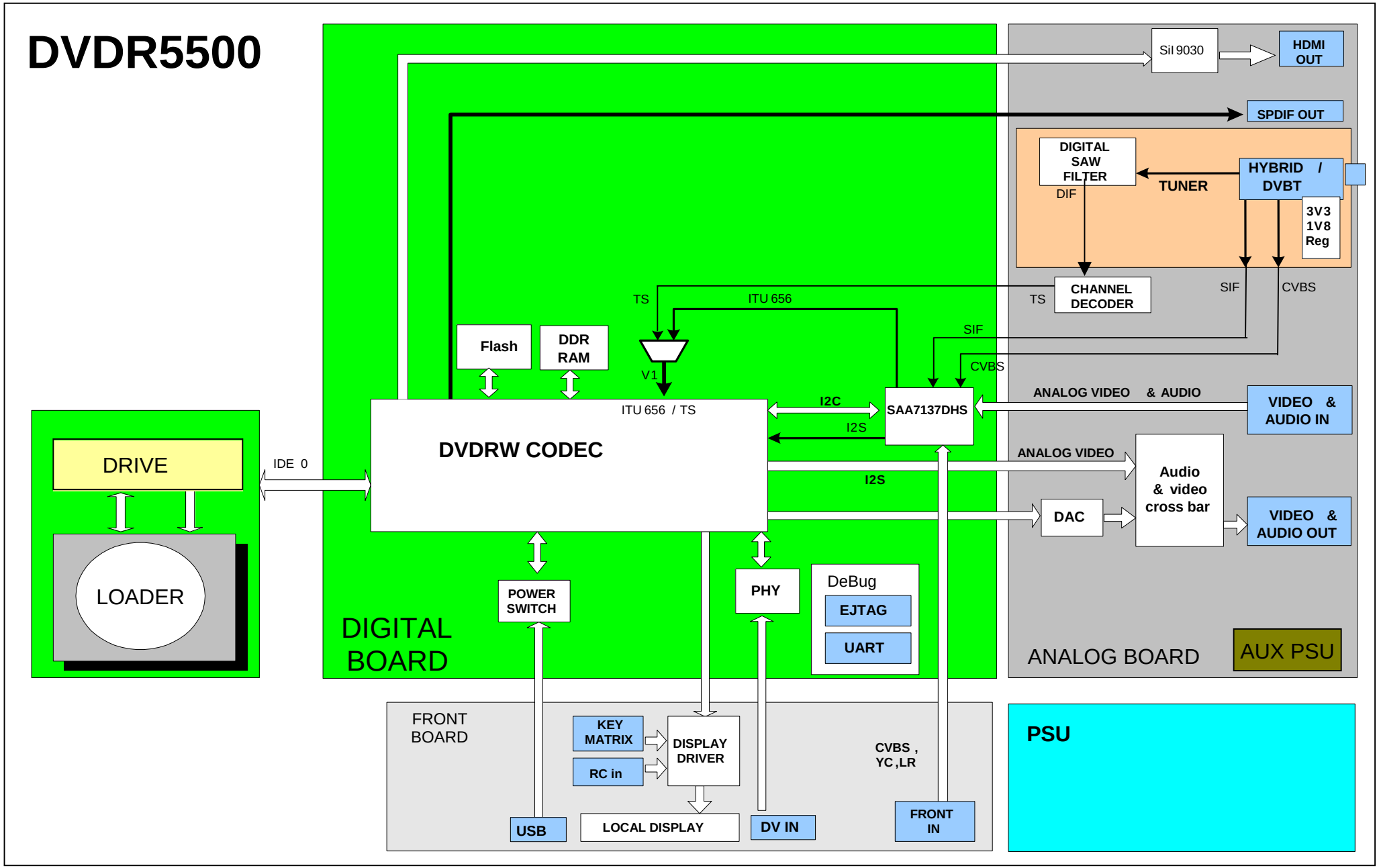
Front Standby Top 3139-243-35576-132-a1.pdf 2007-05-28

Layout: Front Standby Board (Bottom View)



Front Standby Bot 3139-243-35576-132-a1.pdf 2007-05-28

DVDR5500 HW Architecture



3 Enjoy

Start recording

A Recording from TV or a connected external device

1. Insert a recordable DVD disc in the tray.

Types of discs for recording

DVD+RW · DVD+R · DVD+R DL · DVD-RW · DVD-R

2. Press **LIVE TV** or **CAM** to select the source to record from.

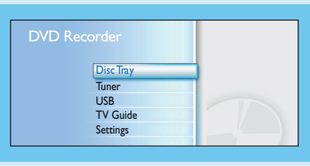
- **To record a TV programme**, use **P+/—** to scroll through the channels, or press **0 - 9** to select the channel that you want to record.

3. Press **REC●** to start recording, press **REC●** again to automatically record 30 minutes. Each subsequent press increases the recording time by 30 minutes.
4. To end recording, press **STOP ■**. 'UPDATING MENU' will be displayed on the recorder.
5. To playback the recording, press **DISC**, select the title and press **►II** .

Start playback

A Playback from disc

1. Press **OPEN/CLOSE ▲** to open the disc tray Load a disc and close the disc tray.

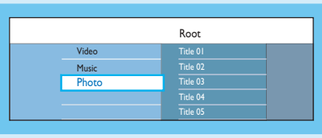


(TV Guide is not available in some countries).

2. Press **HOME** and select { **Disc Tray** }.
3. Press **OK** to confirm.
4. Use ◄ ► ▲ ▼ keys to reach the title/file you want to play and press **►II** to start playback.

B Playback from USB device

1. Insert the USB device to the USB port.
2. Press **USB** to show the contents list.



3. Select the contents type and press ► **right**.
4. Select a data file (MP3, WMA, DivX and JPEG) and press **►II** to start playback.

Select a record mode

Selecting an appropriate recording mode is important as it determines the picture quality and recording time.

1. Before recording, press **HOME** on the remote control.
2. Select { **Settings** } in the menu and press **OK**.
3. Move to { **Recording** } and press ► **right**.
4. Move to { **Record Mode** } and press ► **right**.
5. Select a record mode and press **OK** to confirm.

Record Mode	Hours of recording that can be stored on an empty DVD recordable disc.	
	DVD±R/ DVD±RW	DVD+R Double Layer
HQ (high quality)	1	1 hr 55 mins
SP (standard play)	2	3 hrs 40 mins
SPP (standard play plus)	2.5	4 hrs 35 mins
LP (long play)	3	5 hrs 30 mins
EP (extended play)	4	7 hrs 20 mins
SLP (super long play)	6	11 hrs 5 mins
SEP (super extended play)	8	14 hrs 45 mins

User Manual

See the user manual that came with your Philips recorder.

Online

Go to www.philips.com/welcome.

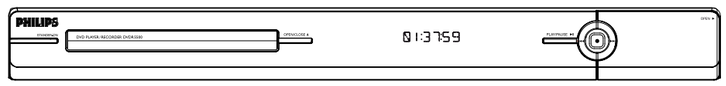
Be responsible
Respect copyrights

12 NC 3139 245 25711
www.philips.com

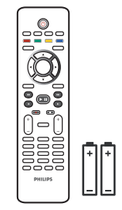
Quick Start Guide

1 Connect
2 Set up
3 Enjoy

What's in the box?



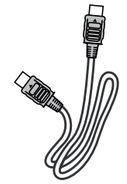
DVD Recorder/ Player



Remote Control and 2 batteries

RF antenna cable (connect between recorder and TV)

Scart cable



HDMI cable

User Manual

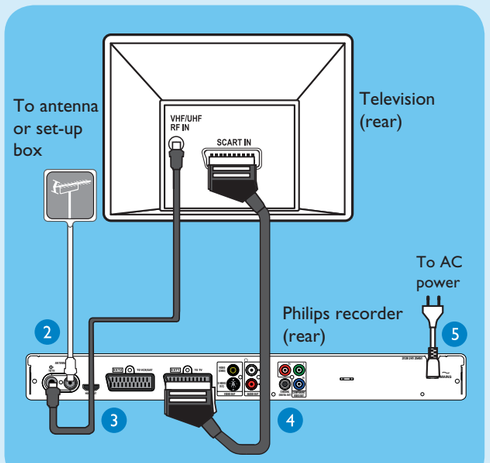
PHILIPS

1 Connect

Before connecting

Select the most suitable connection (A or B) based on your home set up. Refer to the accompanying User Manual for other possible connections.

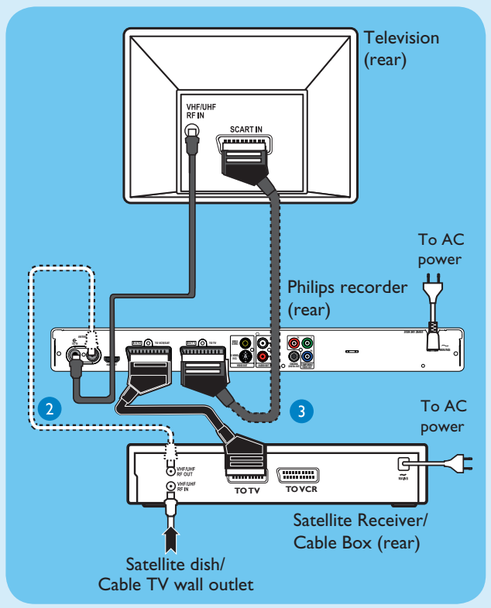
A Connecting Recorder and TV
with antenna only



1. Unplug the antenna cable that is currently connected to your TV.
2. Connect the antenna cable to the **ANTENNA-IN** socket on the recorder.
3. Use the supplied RF antenna cable to connect the **ANTENNA TO-TV** socket on this recorder to the Antenna In socket on the TV.
4. Use the SCART cable to connect the **EXT1 TO TV-I/O** socket on this recorder to the corresponding SCART input socket on the TV.

   Note If you have a HDMI TV, connect the supplied HDMI cable from the recorder to your HDMI TV set. See the chapter "Step 1: Basic Recorder Connections – Connecting the video cable" in the accompanying user manual.
5. Connect the power cable from the recorder to an AC power outlet.

B Connecting Recorder, TV and Satellite Receiver/Cable Box



1. Follow steps 3-5 of connection A before you proceed to step 2 below.
2. Use an antenna cable to connect the Antenna Output (RF OUT) socket on the Cable Box to the **ANTENNA-IN** socket on this recorder. *(optional)*

   Note The antenna connection can be different depending on the Satellite Receiver/Cable Box. Refer to its user manual for proper antenna connection.
3. Use another SCART cable (not supplied) to connect the **EXT2 TO VCR/SAT** scart socket on this recorder to the SCART OUT (TO TV) socket on your Satellite Receiver/ Cable Box.

For additional connection diagrams, see the accompanying User Manual.

2 Set up

A Finding the viewing channel

1. Switch on the TV set. The installation menu is displayed.

2. In case you don't see the recorder's setting menu, press the Channel Down button on the TV's remote control repeatedly (or AV, SELECT, ⊖ button) until you see the menu. This is the correct viewing channel for the recorder.

   Note To access the colour functions shown on the bottom of the menu, press the matching colour coded buttons on the remote control.

B Start initial installation

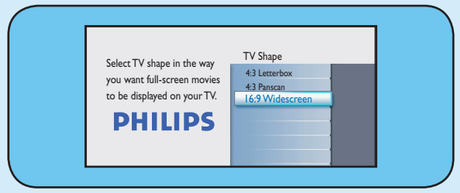
Use the recorder's remote control and follow the on-screen instructions to complete the installation.

Note Use the up ▲ or down ▼ keys to toggle through the options. To confirm a setting, press **OK** on the remote control. To return to the previous screen, press the **Red** button.

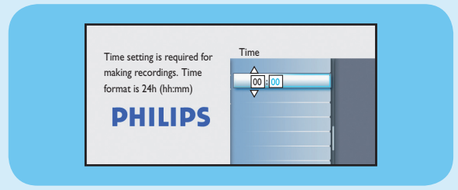
1. Select the desired on-screen menu language.
   Press **OK** to confirm.

2. Select the country of your residence.
   Press **OK** to confirm.

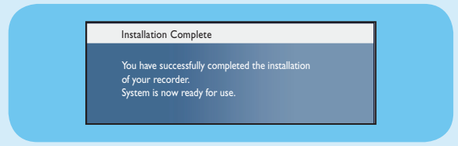
3. Select the suitable TV shape.
   Press **OK** button to confirm.



4. Automatic channel search begins.
   Once complete, the total number of stored channels screen appears. Press **OK** to continue.
5. Set the time.
   Use the **alphanumeric keypad 0-9** or ▲▼◀▶ keys to enter the correct time. Press **OK** to confirm and continue.



6. Set the date.
   Use the **alphanumeric keypad 0-9** or ▲▼◀▶ keys to enter the correct date. Press **OK** to confirm and continue.
7. Installation is complete.



Press **OK** to exit the menu.

The recorder is now ready for use.

DVDR5500/05/31/58

110	313924414132		COVER TRAY DVDR5500	
182	313924320471		SHIELD THERMAL DVDR3380	
196	313924125761		SHIELD EMC AV DVDR5500	
199	313924100043		EMC SPRING	
204	313924320921	$	SHIELD PSU DVDR5500	
206	313911426671		BUSH 450H259010	
230	313924125451		PLATE BACK DVDR5500	
240	313924124241		COVER TOP DVDR3400	
342	242254901436		REMOTE CONTR DVDR5500 EU V+ B	/05 only
342	242254901437		REMOTE CONTR DVDR5500 EU SV B	/31/58 only
345	242207098236	$	MAINSCORD UK 5A 1M8 VH BK B	/05 only
345	242207098231	$	MAINSCORD IEC 2A5 1M8 VH BK B	/31/58 only
351	242207600825		CBLE SCART 1M5 SCART 21P BK B	
353	242207600865		CBLE HDMI 19P 1M5 19P HDMI BKB	
487	242207600885		CBLE IEC-M 1M47 IEC-F BK B	
901	314302766472		FRONT ASSY DVDR5500/05	/05 only
901	314302766462		FRONT ASSY DVDR5500/31	/31/58 only
920	314302766502		FRAME ASSY DVDR5500	
1001	313924850451		PCBAS DVDR5500 ANALOG BOARD EU	
1002	313924850471		PCBAS DVDR5500 DIGITAL BOARD	
1003	313924850441		PCBAS DVDR5500 FRONT PANEL	
1004	313924800232		DRIVE D5.1 OPEN	
1005	313924713053	$	PSU 06H85L 0558D0557 LIS	
8001	313913103011		FFC FOIL 22P/080/22P AD 1MMP	
8002	313924103731		CBLE IDE 40P/370/40P IDE UL EX	
8003	313911034821		FFC FOIL 22P/140 BD 1MMP FOLD	
8004	313924103251		FFC FOIL 45P/180 BD 0.5MM FOLD	
8005	313924103571		FFC FOIL 22P/120 BD 1MMP FOLD	
8006	313924103271		FFC FOIL 14P/140 BD 1MMP FOLD	
8007	313924103231		FFC FOIL 24P/140 AD 0.5MM FOLD	
8008	313924103211		CBLE EHR 04P/220/04P F6001 UL	
8009	313924102201		CBLE VH 5P/080/5P VH 20ST BK	
8010	313911028301		CBLE PH 12P/220/12P PH 26ST BK	
8011	313911027861		CBLE PH 06P/080/06P PH 26ST BK	

PHILIPS

PSU (1005)

CNB
12STBY 6
GND 5
IPFAIL 4
GND 3
5NSTBY 2
VGNSTBY 1
2mm B6B-PH

8011

CNA
GND 5
3V3STBY 4
5VSTBY 3
GND 2
12STBY 1
2.5mm B5P-VH

8009

8008

1111
6 12STBY
5 GND
4 IPFAIL
3 GND
2 5NSTBY
1 VGNSTBY
2mm B6B-PH

1102
5 GND
4 3V3STBY
3 5VSTBY
2 GND
1 12STBY
2.5mm B5P-VH

1106 / 1107
2 FAN_P
1 FAN_N
FAN - Provision only

1123
IROUT
Provision only

1212-1
Y U V

1212-2
DIG AUD
COAX OUT

1210-A
Y/C out

1210-B
CVBS

1302
L R

SCART2
1216-1

SCART1
1215-1

1401
19 1
1 TX2+_1
2 GND
3 TX2-_1
4 TX1+_1
5 GND
6 TX1-_1
7 TX0+_1
8 GND
9 TX0-_1
10 TXC+_1
11 GND
12 TXC-_1
13 NC
14 NC
15 TX_DDC_SCL
16 TX_DDC_SDA
17 GND
18 +5V_HDMI
19 HPD

TUNER
1507

1101
4 +5V
3 GND
2 GND
1 +12V
JST-KR 2mm

1115 supply to Dig Bd
12 VGNSTBY
11 GND
10 GND
9 5VSTBY
8 GND
7 GND
6 12VSTBY
5 GND
4 +3V3
3 +3V3
2 +3V3
1 +3V3
JST-KR 2mm

ANALOG BOARD (1001)

1301 AIO
OUT1_R GND OUT1_L GND D_PCMCLK GDN D_DATA0 D_WCLK GND D_BCLK GND DAOUT AUD_MUTE GND AIN_SC2_R GND AIN_SC2_L GND AIN_SC1_R GND AIN_SC1_L GND

1205 VIO
A_VR GND A_UB GND A_YG GND C_IN_REAR GND Y_IN_REAR GND D_CVBS GND D_Y GND D_C GND D_VR GND D_YG GND D_UB GND

1405 HDMI

1510 TUNER

1114 COM
IROUT GND FBIN GND 8SC2 HD_ON PWR_CTL# PWR_CTRL_LOADER YC_REAR_ACT FAN_ON GND SDA SCL GND

8001 8005 8004 8007 8006

1404 AIO
GND OUT1_R GND OUT1_L GND D_PCMCLK GDN D_DATA0 D_WCLK GND D_BCLK GND DAOUT AUD_MUTE GND AIN_SC2_R GND AIN_SC2_L GND AIN_SC1_R GND AIN_SC1_L

1401 VIO
GND A_VR GND A_UB GND A_YG GND C_IN_REAR GND Y_IN_REAR GND D_CVBS GND D_Y GND D_C GND D_VR GND D_YG GND D_UB

1509 HDMI

1505 TUNER

1502 COM
IROUT GND FBIN GND 8SC2 HD_ON PWR_CTL# PWR_CTRL_LOADER YC_REAR_ACT FAN_ON GND SDA SCL GND

8010

1501
12 VGNSTBY
11 GND
10 GND
9 5VSTBY
8 GND
7 GND
6 12VSTBY
5 GND
4 +3V3
3 +3V3
2 +3V3
1 +3V3
JST-KR 2mm

DIGITAL BOARD (1002)

1102 JTAG
TRST TDO TDI TMS TCK GND

1303 USB
1 VCC
2 USBM
3 USBP
4 GND

1301 DVin
1 GND
2 TPA0+
3 TPA0-
4 GND
5 TPB0+
6 TPB0-

8002

1504 DRIVE

1402 FCOM
GND AIN_FR_R GND AIN_FR_L CVBSFIN GND CFIN GND YFIN GND VGNSTBY STBY_KEY 12STBY RC GND D_HOST STROBE FP_SCK GND DFM 5VSTBY

8003

1212

1203

40-pol IDE connector
1 39
+5V GND GND +12V 4 3 2 1
4-pol PC connector

BASIC ENGINE (1004)
1

1108

1300
4 STBYKEY
3 GND
2 STBY LED
1 5VSTBY
B4B-PH
STBY KEY

5VSTBY
STBY LED
GND
STBYKEY
B4B-PH

1107 FCOM
GND AIN_FR_R GND AIN_FR_L CVBSFIN GND CFIN GND YFIN GND VGNSTBY STBY_KEY 12STBY RC GND D_HOST STROBE FP_SCK GND DFM 5VSTBY

DISPLAY (1003)

YC FRONT
CVBS L R
USB
DVin

CHN		SETNAME DVDR5500					
CLASS_NO		SET WIRING DVDR5500 EU			3139 249 3833	1	2006-10-06
	1						
2006-10-06	2						
NAME NG SIOK NEE		SUPERS.	1	10	132 – 1		A2
SV	CHECK	DATE 2006-10-06	© ROYAL PHILIPS ELECTRONICS N.V. 2006				