


Service
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Service Manual



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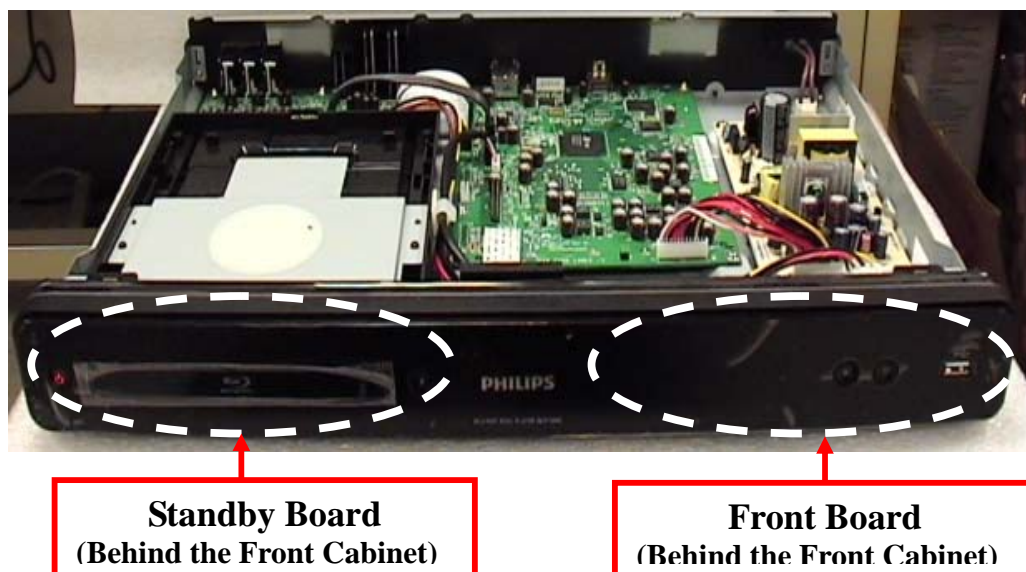
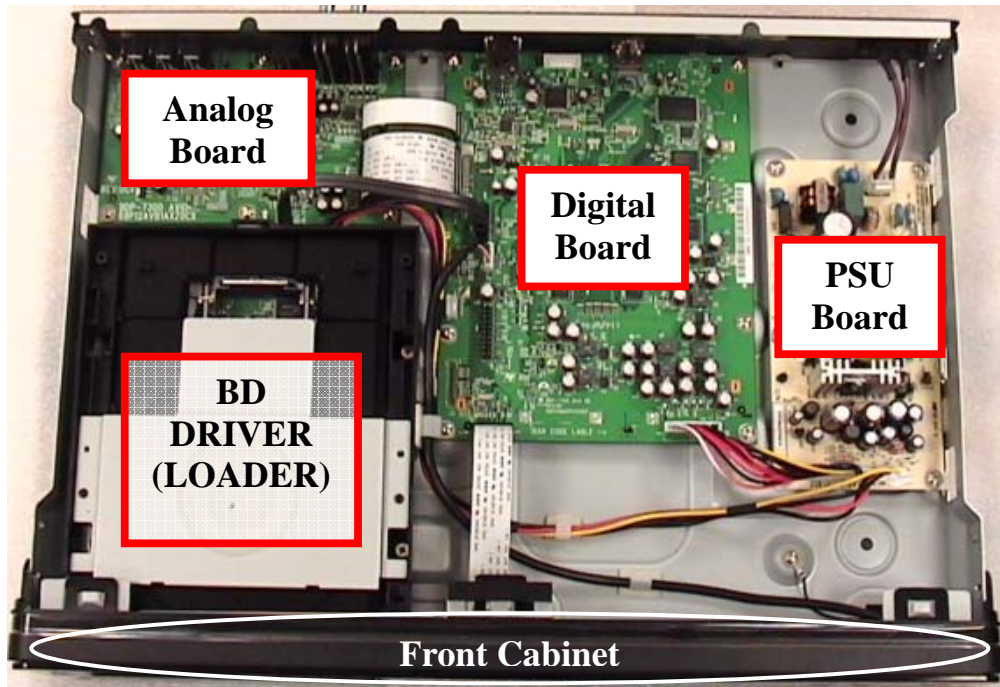
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1. Technical Specifications and Connections Facilities

1-1.PCB Locations



1-2 BDP 7300-XX Specifications

1-2-1 Playback Media

BD-Video,
DVD-Video,
DVD+/- R,
DVD +/- RW,
CD -R/CD-RW,
Audio CD, Video CD/SVCD,
Picture CD,
MP3 –CD,
MP3-DVD,
WMA-CD,
DivX (Ultra),
USB flash driver

1-2-2 Video

Signal system: PAL/NTSC
Composite video output: 1 Vp-p (75 ohm)
Component video output:

- Y: 1 Vp-p (75 ohm)
- Pb: 0.7 V-pp (75 ohm)
- Pr: 0.7 V-pp (75 ohm)

HDMI output:
480p/576p/720p/1080i/1080p

1-2-3 Audio

2 channel analogue output

- Audio Front L+R: 2Vrms (>1kohm)

5.1 channel analogue output

- Audio Front L+R: 2Vrms (>1kohm)
- Audio Surround L+R: 2Vrms (>1kohm)
- Audio Center: 2Vrms (>1kohm)
- Audio Subwoofer: 1.15 Vrms (>1kohm)

Digital output: 0.5 Vp-p (75 ohm)

- Optical / Coaxia

HDMI output:
Sampling Frequency:

- MP3 : 32 / 44.1 / 48 KHz
- WMA: 44.1 / 48 KHz

Constant bit rate:

- MP3 : 112 – 320 Kbps
- WMA: 48 – 192 Kbps

1-2-4 USB

Compatibility: Hi-Speed USB 2.0
Class Support:

- UMS (USB mass Storage Class)
- MTP (Media Transfer protocol)

1-2-5 Main Unit

Power supply rating: 110-240 V ~AC 50Hz
Power consumption: 30 W
Power consumption in standby mode:
0.2W

1-3 BDP 5000-XX Specifications

1-3-1 Playback Media

BD-Video,
DVD-Video,
DVD+/- R,
DVD +/- RW,
CD -R/CD-RW,
Audio CD, Video CD/SVCD,
Picture CD,
MP3 –CD,
MP3-DVD,
WMA-CD,
DivX (Ultra),
USB flash driver

1-3-2 Video

Signal system: PAL/NTSC
Composite video output: 1 Vp-p (75 ohm)
Component video output:

- Y: 1 Vp-p (75 ohm)
- Pb: 0.7 V-p (75 ohm)
- Pr: 0.7 V-p (75 ohm)

HDMI output:
480p/576p/720p/1080i/1080p

1-3-3 Audio

2 channel analogue output

- Audio Front L+R: 2Vrms (>1kohm)

Digital output: 0.5 Vp-p (75 ohm)

- Optical / Coaxial

HDMI output:
Sampling Frequency:

- MP3 : 32 / 44.1 / 48 KHz
- WMA: 44.1 / 48 KHz

Constant bit rate:

- MP3 : 112 – 320 Kbps
- WMA: 48 – 192 Kbps

1-3-4 USB

Compatibility: Hi-Speed USB 2.0
Class Support:

- UMS (USB mass Storage Class)
- MTP (Media Transfer protocol)

1-3-5 Main Unit


Power supply rating: 110-240 V ~AC 50Hz
Power consumption: 30 W
Power consumption in standby mode:
0.2W

2. Safety Information & General Notice

2-1 Safety Instructions

2-1-1 General Safety

Safety regulations are strongly required during repair action:

- Using isolation transformer to connect unit and mains.
- Replace safety components which have symbol  on it only allowed to change the component as same type as original one. Any other substitution component may cause risk of fire or electrical short circuit issue.

Safety regulations are required after repair. You must return the unit back to original condition and pay attention at 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. To 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
 6. Switch the unit 'off', and remove the wire between the two pins of the mains plug.

Laser Safety

The BD Driver is a laser device. Only allowed qualified service personnel to remove the cover and repair action, because it might cause eye damage.

Laser Device Unit

Type : Semiconductor laser GaAIAs

Wavelength : 775-805 nm (CD)
: 640-663 nm (DVD)
: 400-410 nm (Blu-ray)

Output Power : 7 mW (CD)
: 7 mW (DVD)
: 20mW (Blu-ray)

Beam divergence : 60 degree

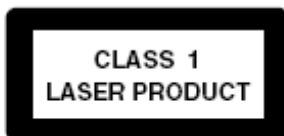



Figure 2-1

2-1-2 Warnings

General

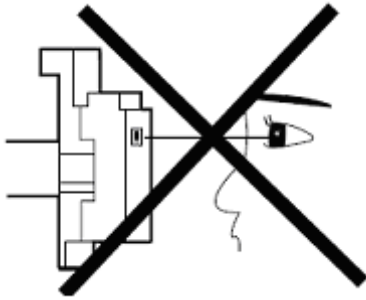
- All components which have been set on PCB board such as IC or Semiconductor are very sensitive to static discharges (ESD ). Careless handling during repair can cause component damage. Therefore, profession service man are not only to keep them at the same potential as the mass of the set by a wristband with resistance but also have to keep components and tools at this same potential while assembling or disassembling parts.
- Be careful during measurements in the live voltage section. The primary side of the power supply, including the heats ink, 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 set at 'on' position.

Laser

- The laser products which been used at BD Player driver will cause eyes damage.
- Only qualified service engineer can remove the cover of laser product and maintain this device.
- Repair handling should put a disc inside the player.

2-2 Laser Beam Safety Precautions

This BD player uses a pickup which will emits laser beam.

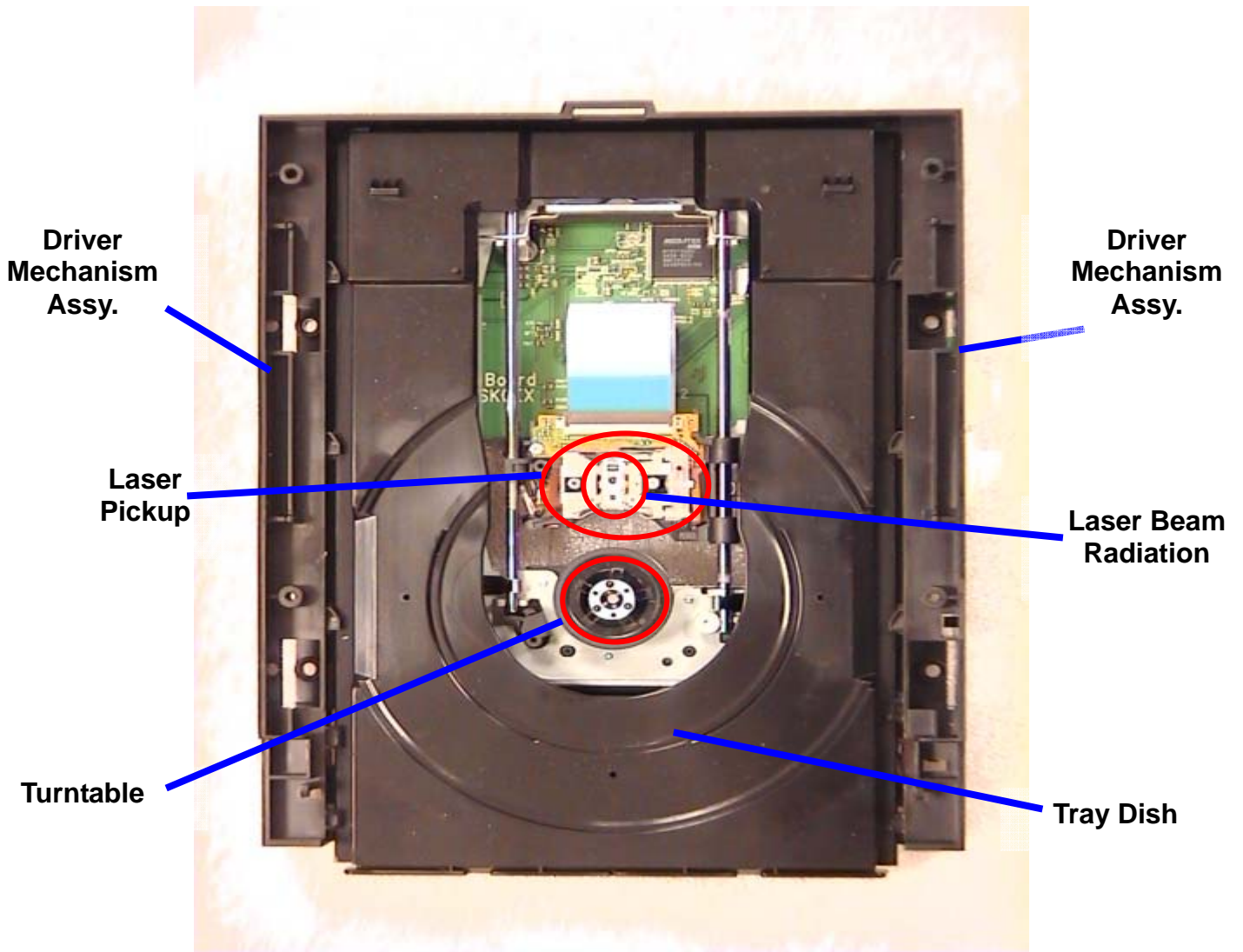


Do not look laser beam which comes from pickup directly

The laser beam will be emitted from pickup as shown above figure. Please be sure, there are more than 30 cm away between your eyes and pickup lens, while laser equipment is turned on. Do not look laser beam directly.

CAUTION: Use of controls and adjustments, or doing procedures other than those specified here in, may result in hazardous radiation exposure.

Safety Information & General Notice



CAUTION-CLASS 2M LASER
RADIATION WHEN OPEN
DO NOT STARE INTO THE BEAM
OR VIEW DIRECTLY WITH
OPTICAL INSTRUMENTS



Mechanism of BD Driver

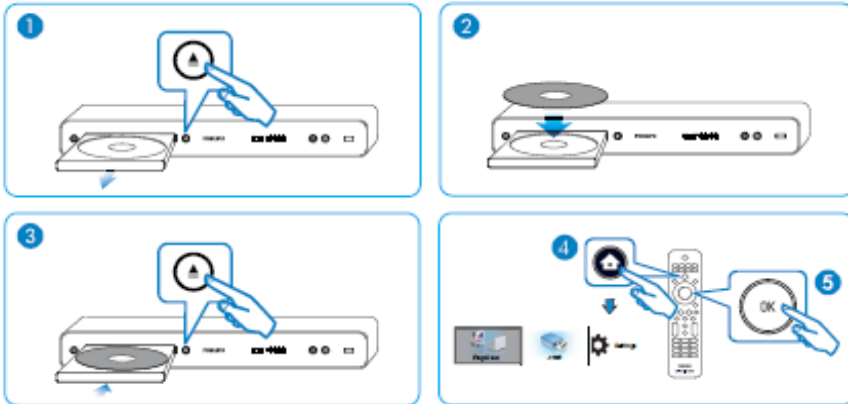
3. QUICK START GUIDE

3-1 Quick Start Guide

The following excerpt of the Quick Start Guide serves as an introduction to the set.

The complete Direction for Use can be downloaded in different languages from the internet site of Philips Consumer Care Center: www.p4c.philips.com

3

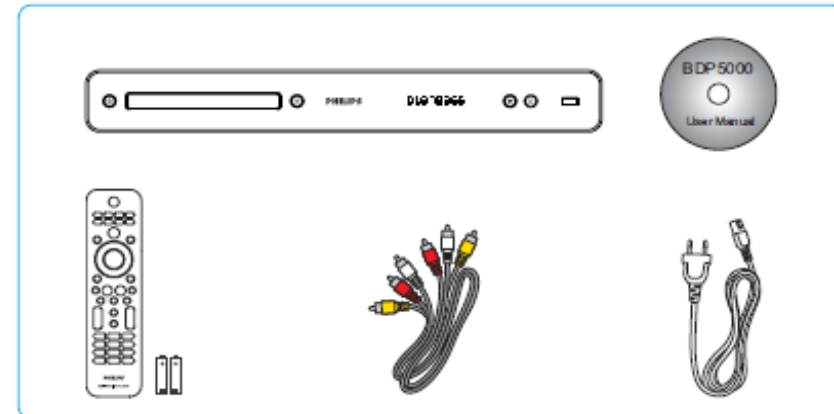


USB

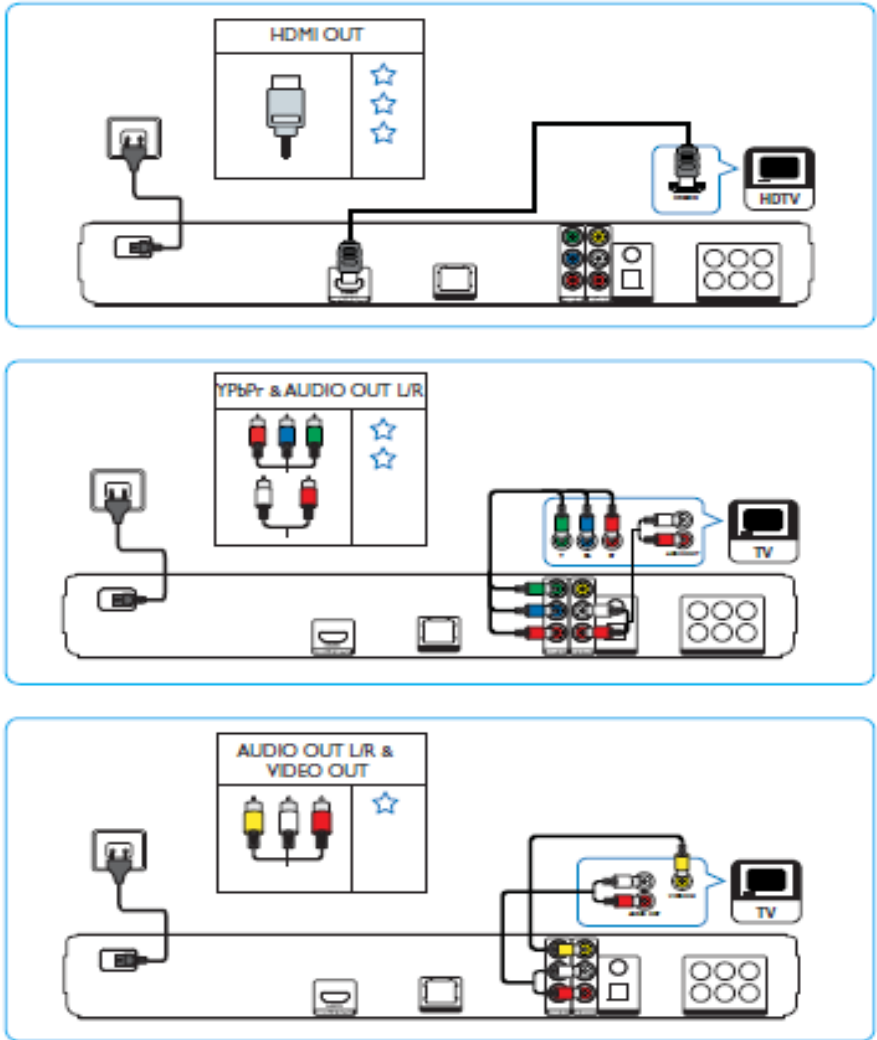


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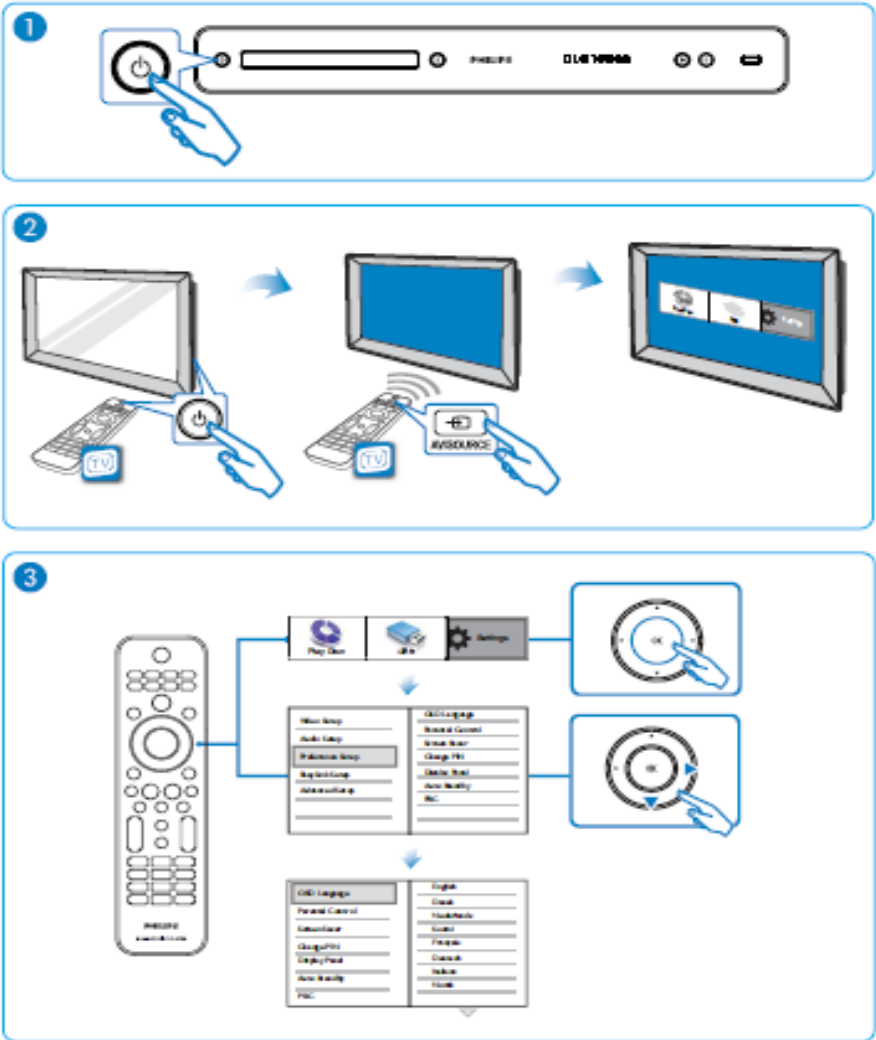
BDP5000



1

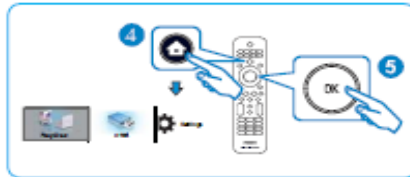
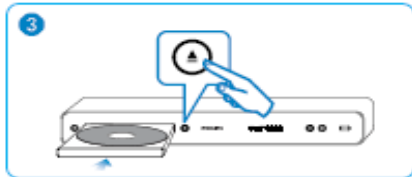
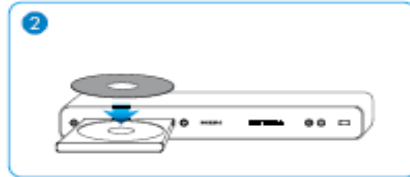
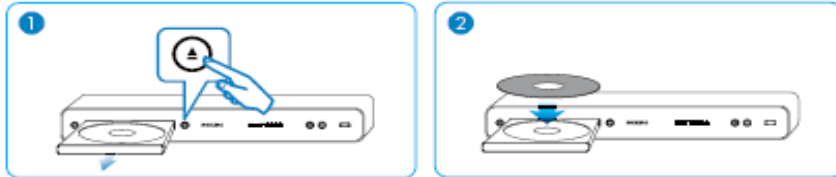


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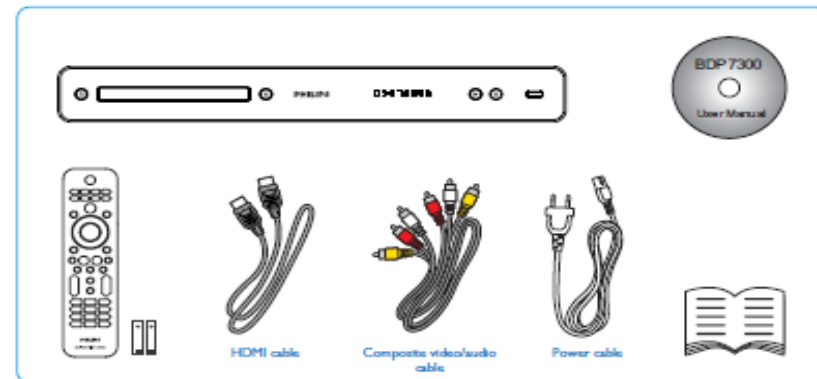
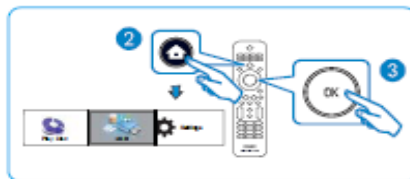


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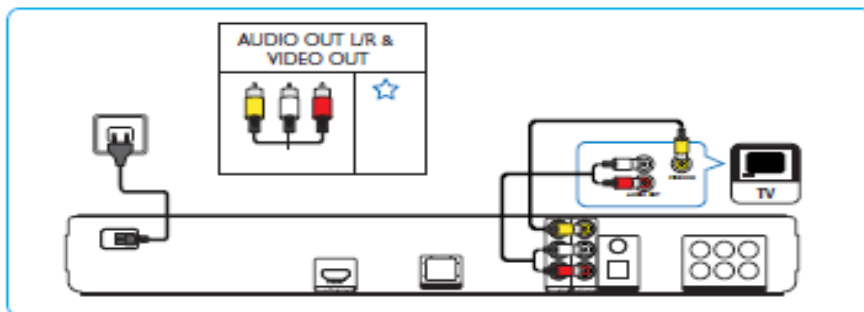
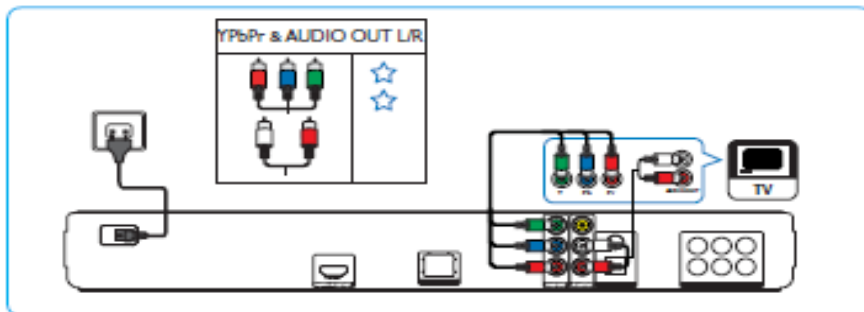
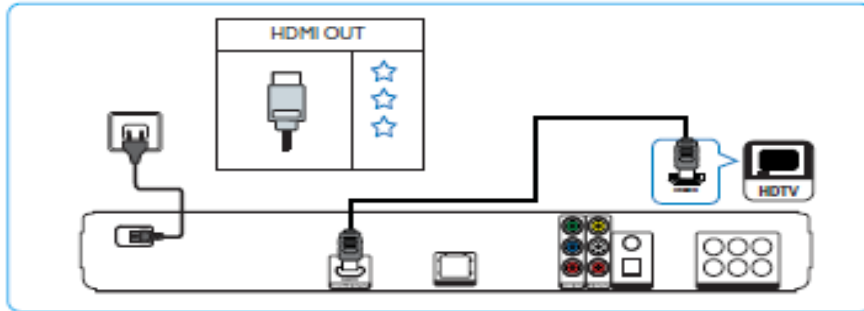
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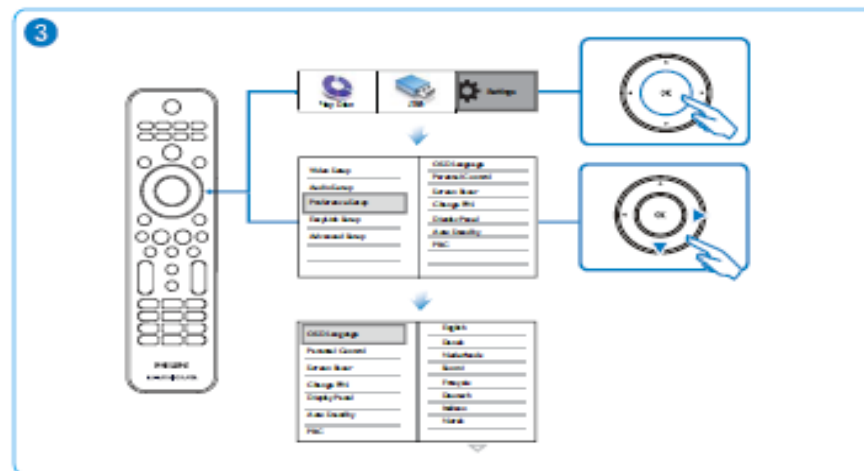
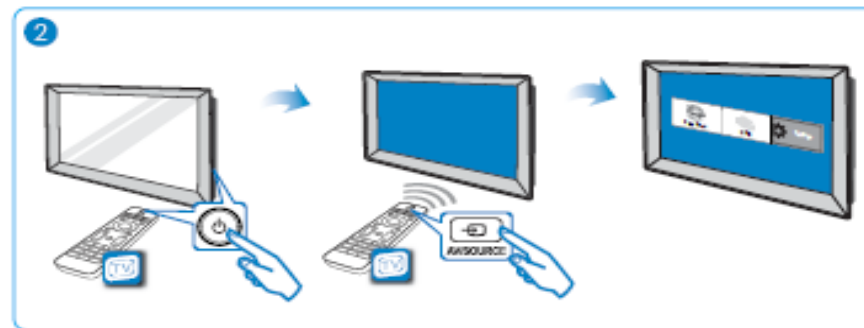
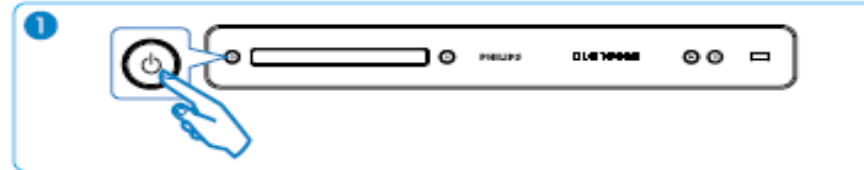
USB



1



2



4. Mechanical Instructions

4-1 Dismantling Door of Driver (Loader)

- 1) Up-side-down BD Player
- 2) Insert a stick into the slot which has been created at the bottom and moving the stick to reverse direction to unlock loader's tray. See figure 4-1-1

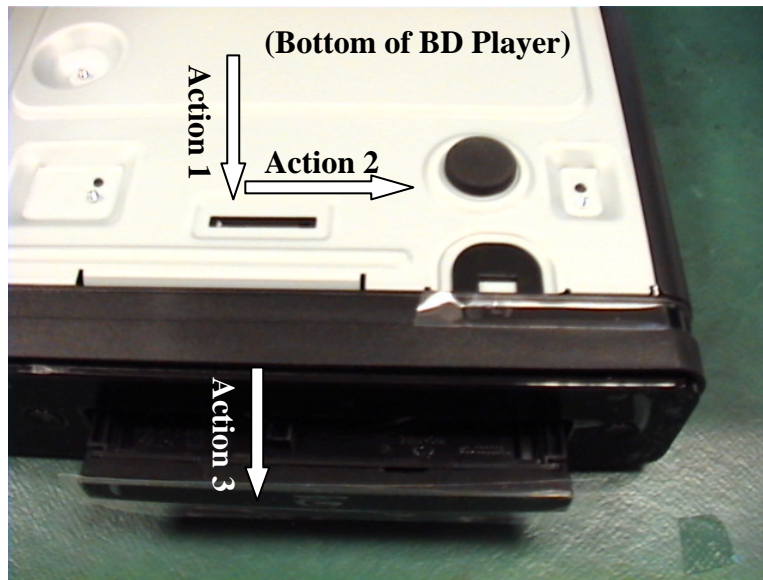


Figure 4-1-1: Unlock Tray of Loader

- 3) Pull out the tray of Loader and remove the door on the up direction. See figure 4-1-2



Figure 4-1-2: Removing Door

4-2 Dismantling Front Panel

- 1) Firstly remove DVD door. (see Figure 4-1-1 &4-1-2)
- 2) Unlock 6 top cover screws and then remove Top cover
- 3) Finally, remove 7 hooks (See Figure 4-2-1 & Figure 4-2-2)

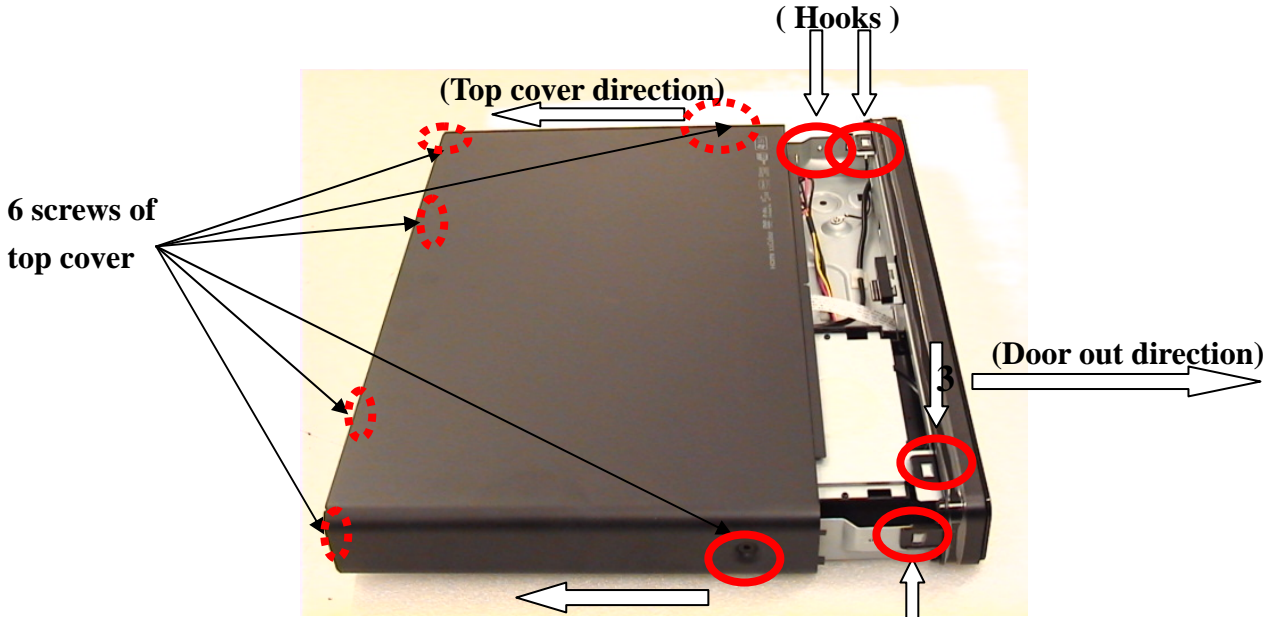


Figure 4-2-1

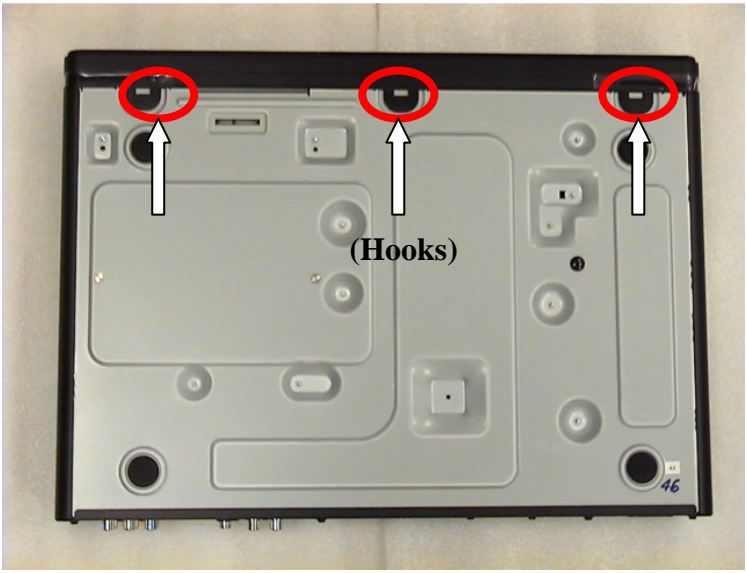


Figure 4-2-2

4-3 Dismantling Rear Panel

- 1) Remove top cover (see Figure 4-2-1)
- 2) For BDP7300, Remove 9 screws of rear panel. (Figure 4-3-1)

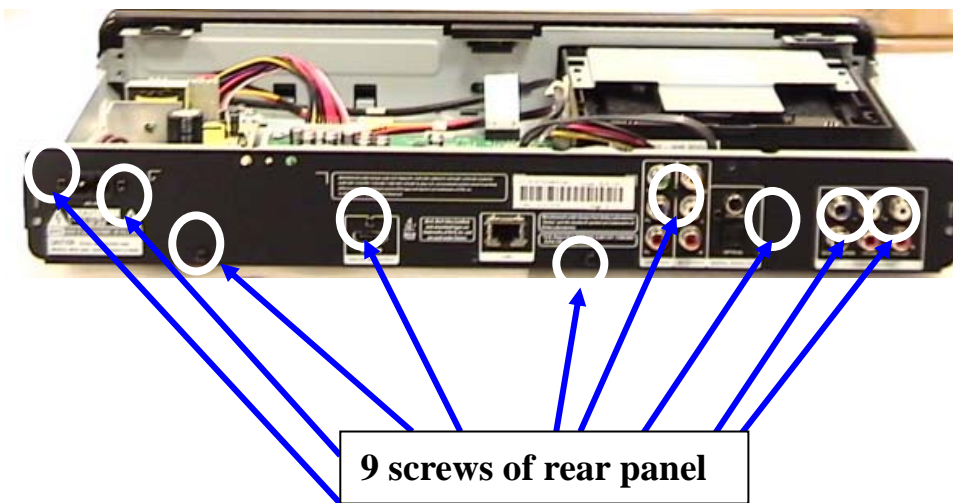


Figure 4-3-1 Rear panel of BDP 7300

- 3) For BDP5000, Remove 7 screws of rear panel. (Figure 4-3-1)

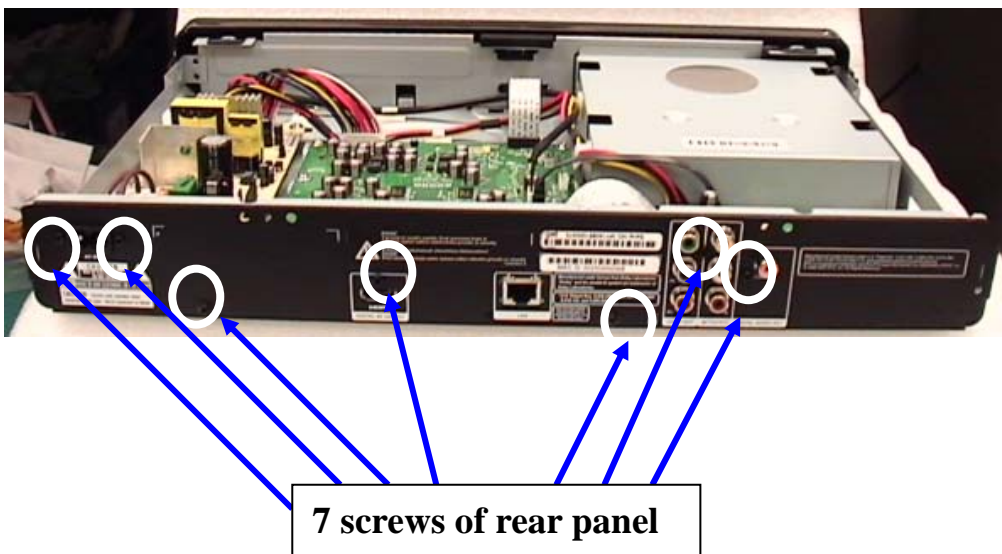


Figure 4-3-2 Rear panel of BDP 5000

4-4 Dismantling Driver (Loader)

- 1) Remove Door. (See Figure 4-1-1)
- 2) Remove Cover. (See Figure 4-2-1)
- 3) Unscrew 4 screws and 2 cables. (See Figure 4-4-1)
- 4) Remove Driver

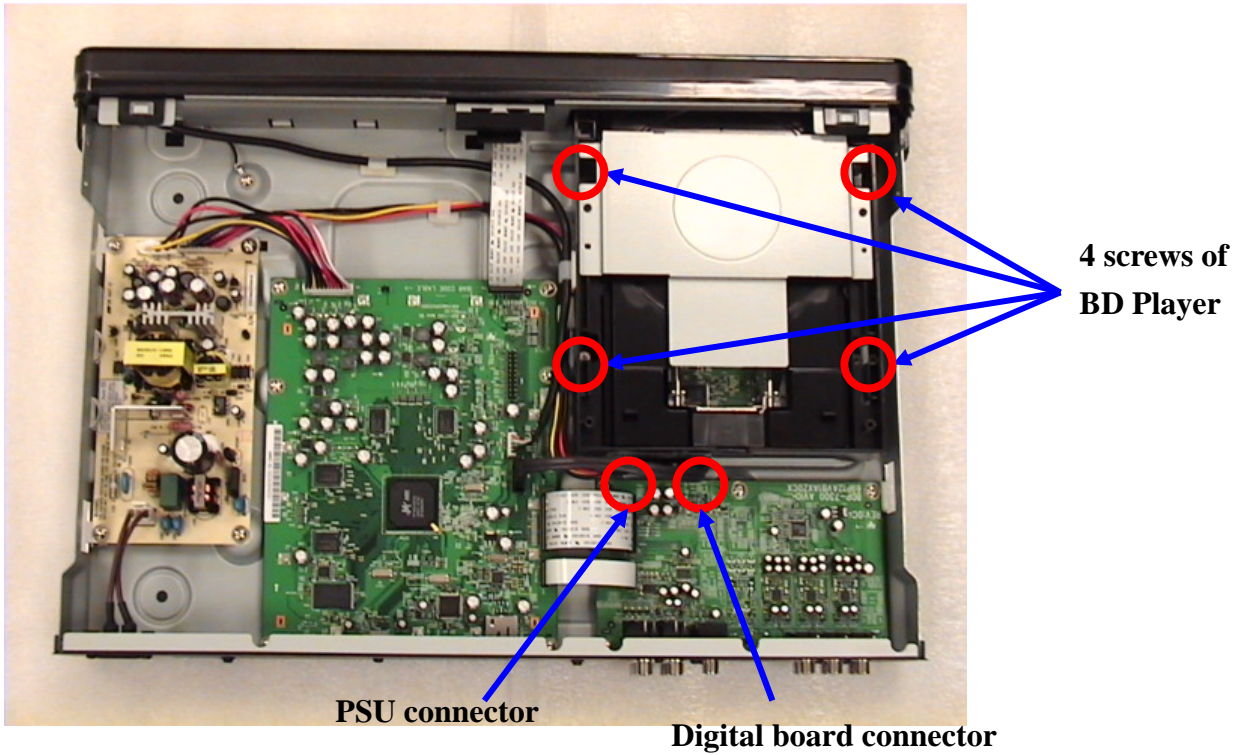
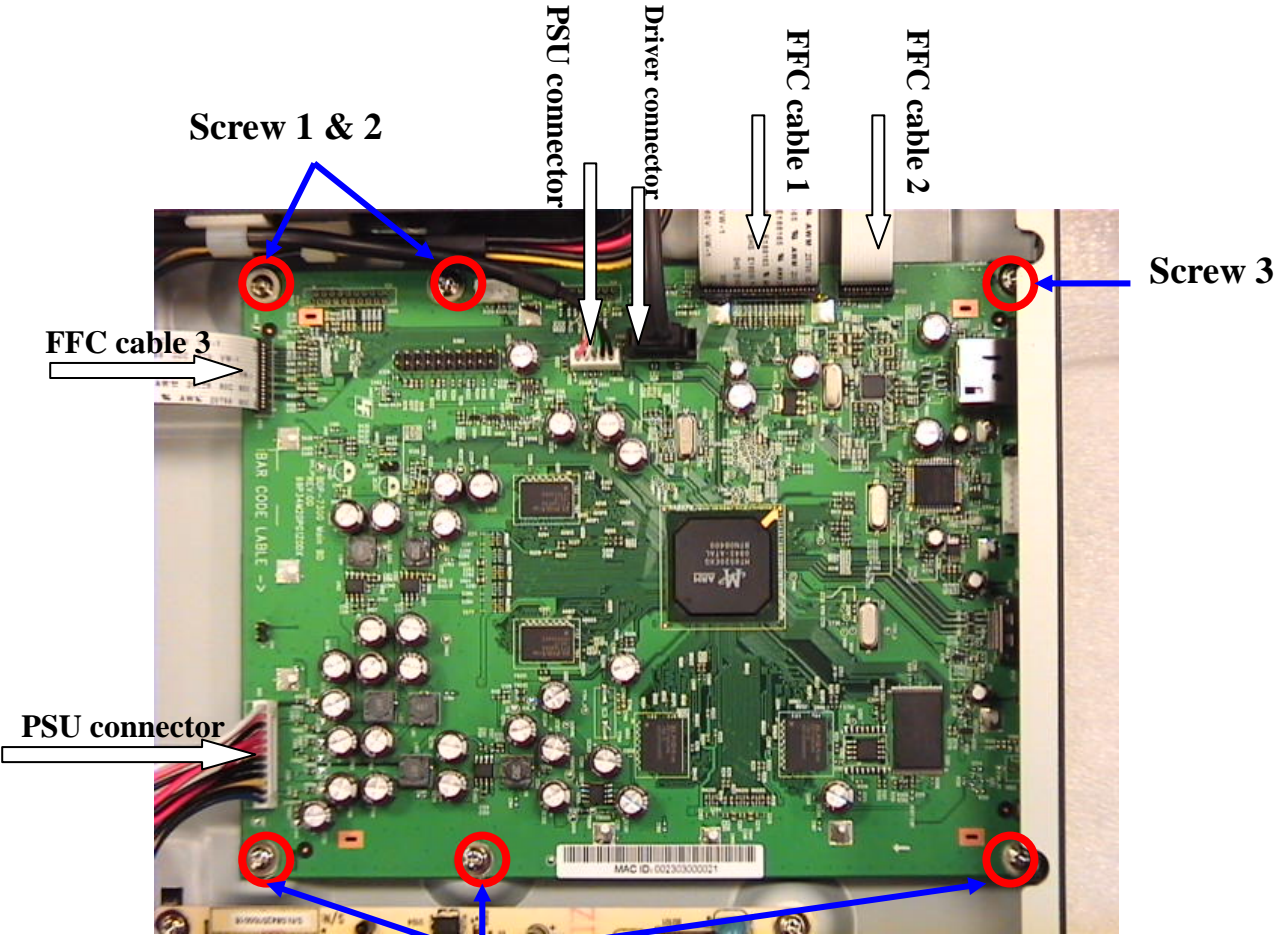


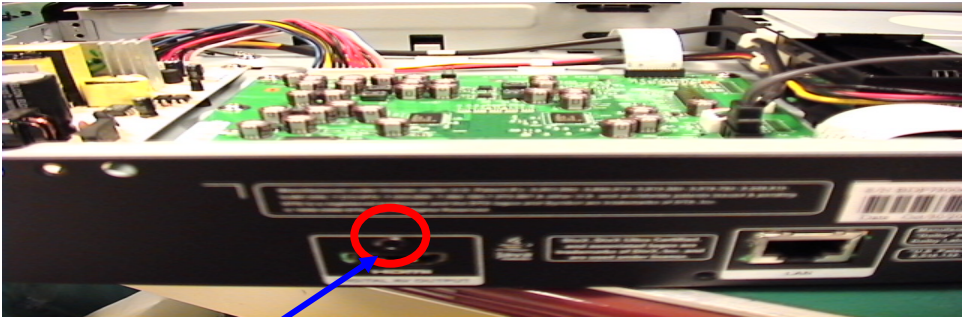
Figure 4-4-1 Remove Driver

4-5 Dismantling Digital Board

- 1) Detach 3 FFC Cables and 3 connectors. (See Figure 4-5-1)
- 2) Unscrew 6 screws of Digital Board
- 3) Remove HDMI screw at Real panel. (See Figure 4-5-2)



Screw 4, 5, 6 Figure 4-5-1 Digital board



HDMI Screw Figure 4-5-2

4-6 Dismantling Analog Board

- 1) Remove 2 FFC cables and unscrew 6 screws on Analog board. (See figure 4-6-1)
- 2) Remove Real panel :
 - 2-1) For BDP-7300 (See Figure 4-3-1)
 - 2-2) For BDP-5000 (See Figure 4-3-2)

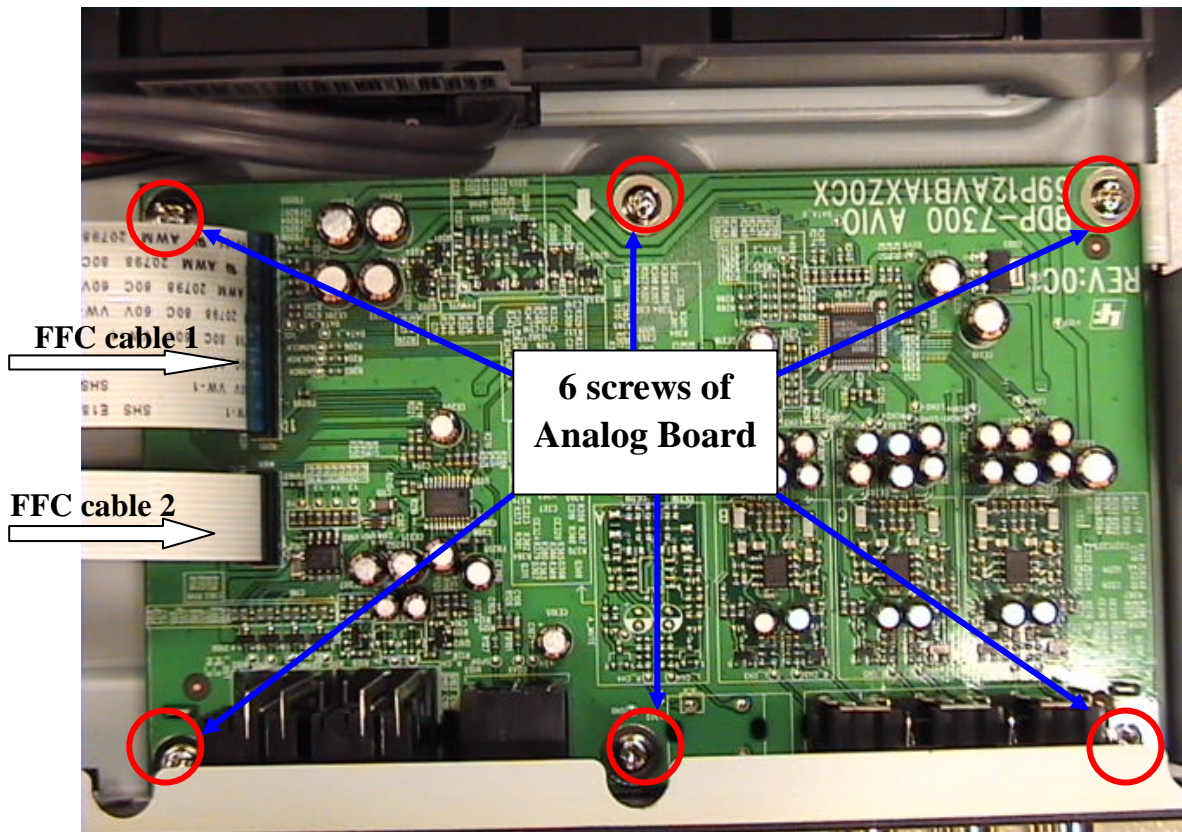


Figure 4-6-1 Analog board

4-7 Dismantling PSU Board

- 1) Detach 3 connectors of PSU board.
- 2) Unscrew 4 screws and 1 hook on the PSU board.

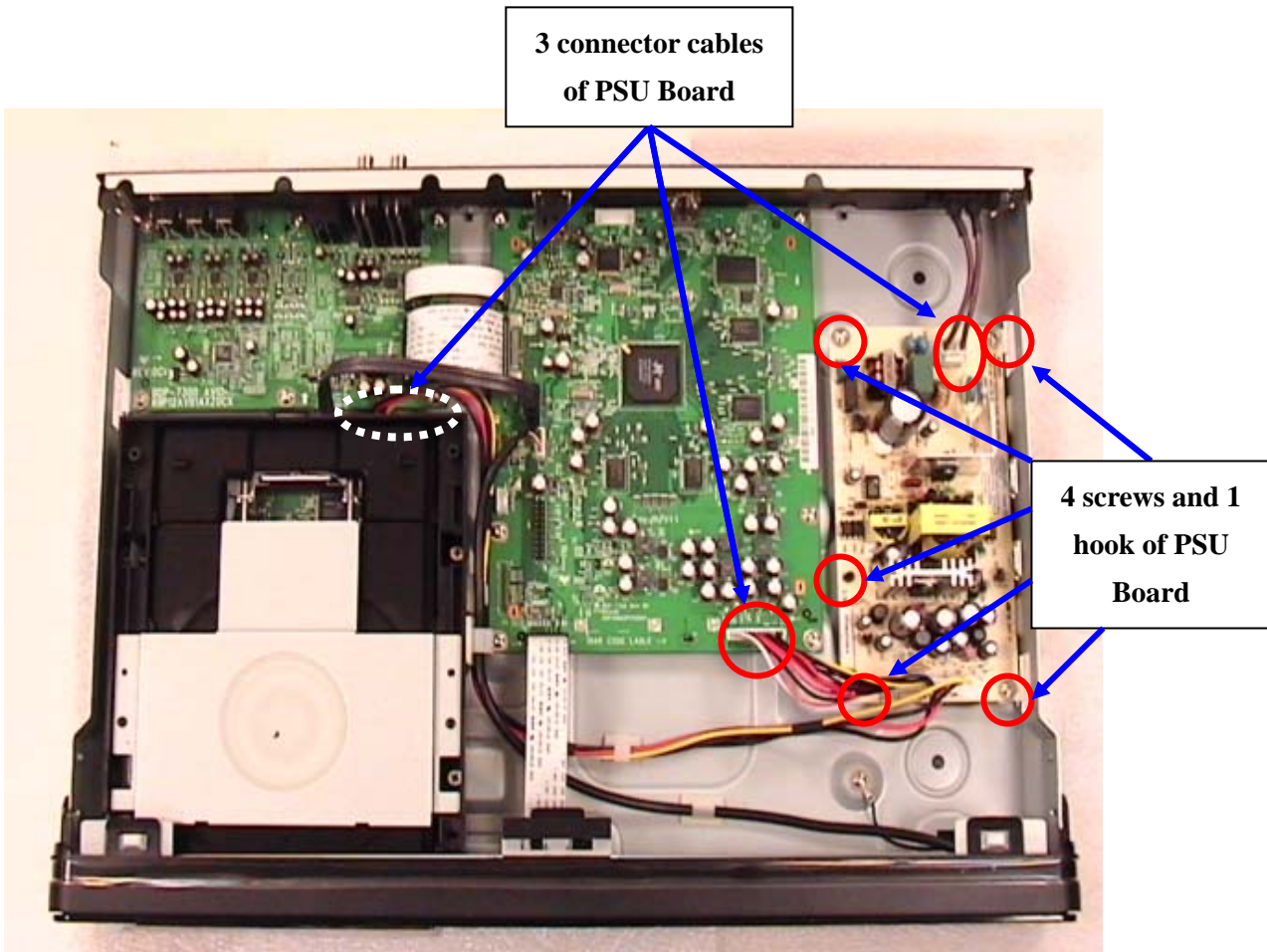


Figure 4-7-1

5. Firmware Upgrading Procedure

Notice: Types of Firmware and Loader will be different while use different version to upgrade firmware! In this doc we use HQ4257 (Wk912.4) to test.

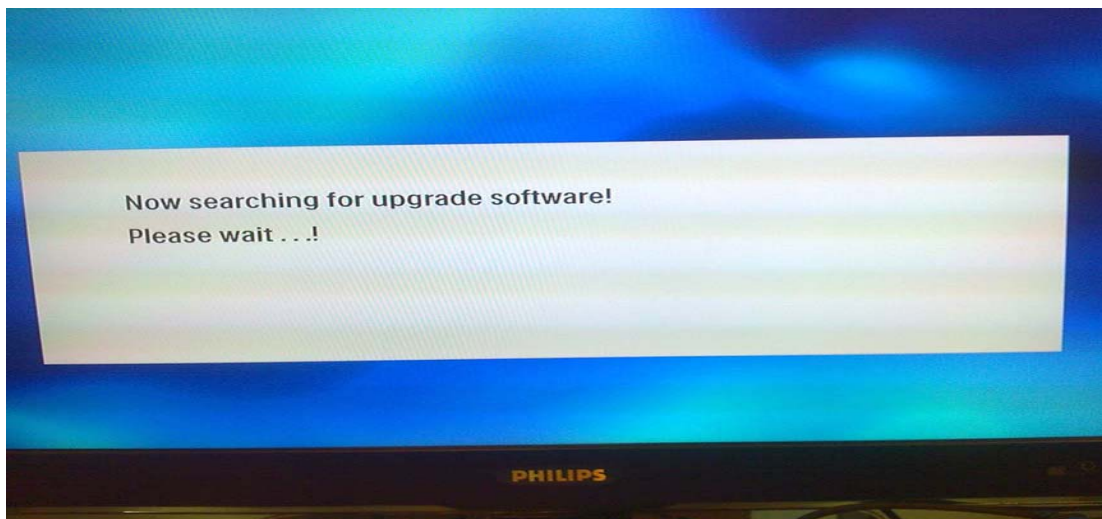
5-1 Upgrade Firmware of System and Loader

- Hardware: BDP 7300 / 5000
- Firmware: WK910.6 (HQ4197)

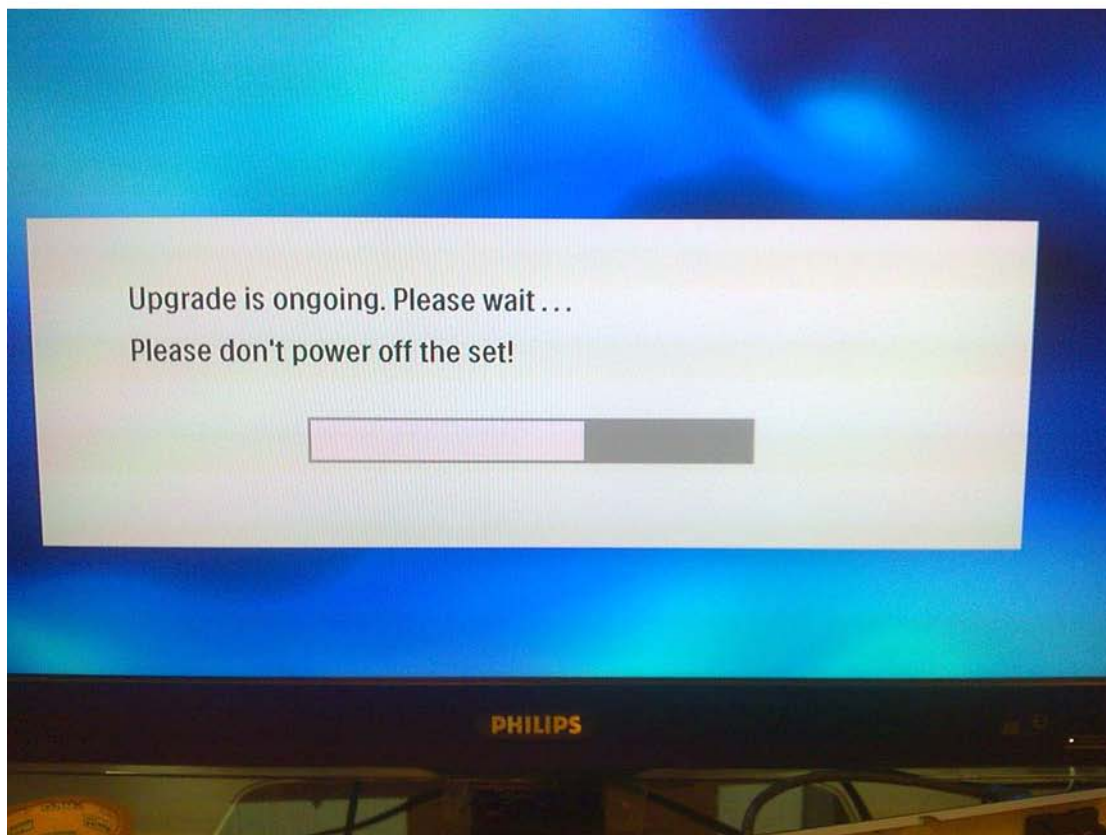
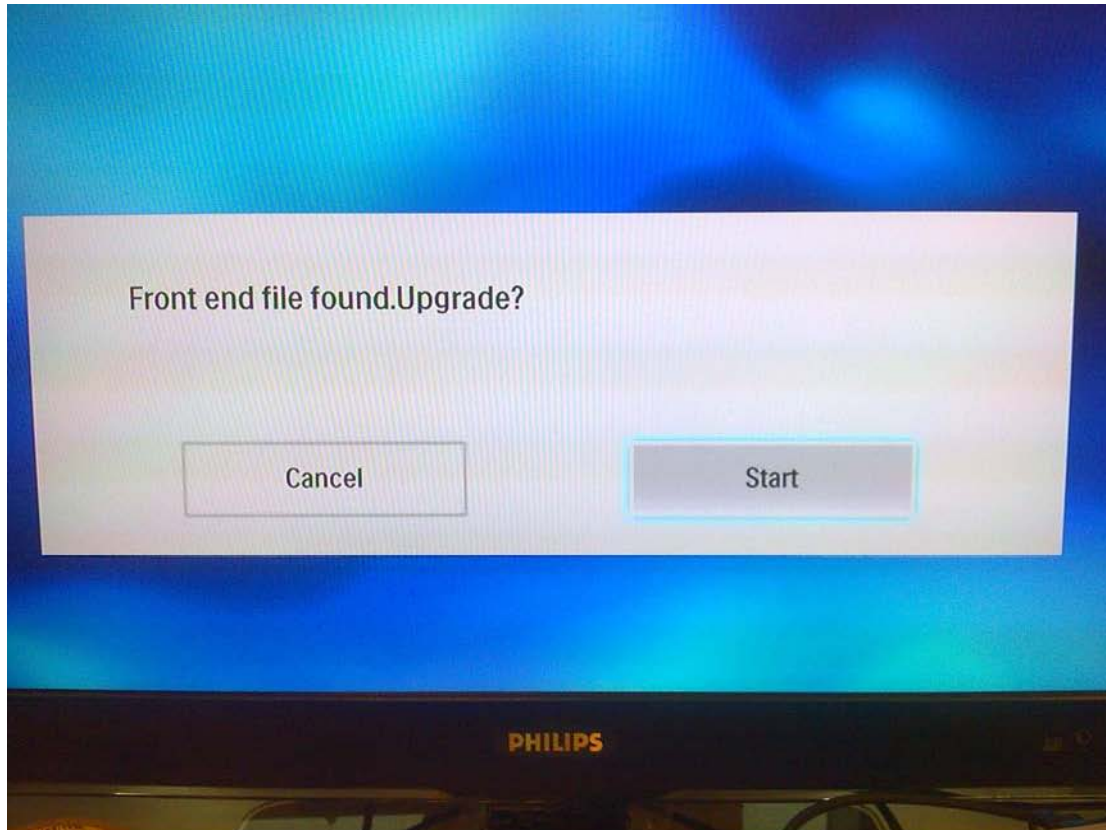
1. Create a folder named “UPG” under root directory on USB thumb drive.
2. Put the upgrade-firmware file in this folder. Please refer to the list about naming upgrade-firmware file.

Model	Firmware Type	File Name
BD Player 7300	System	BDP700012-FUS-912500.bin
	Loader	BDP700012-FWF-912500.bin
BD Player 5000	System	BDP500012-FUS-912500.bin
	Loader	BDP500012-FWF-912500.bin

3. Power-on BD Player, waiting for Home Menu (there are 3 items [Play Disc/USB/Settings] for selection) displayed, and insert the USB thumb drive.
4. Using remote controller to select [Settings] in Home Menu → Advanced Setup → Software Download → USB.
5. BD Player will search Loader Firmware.

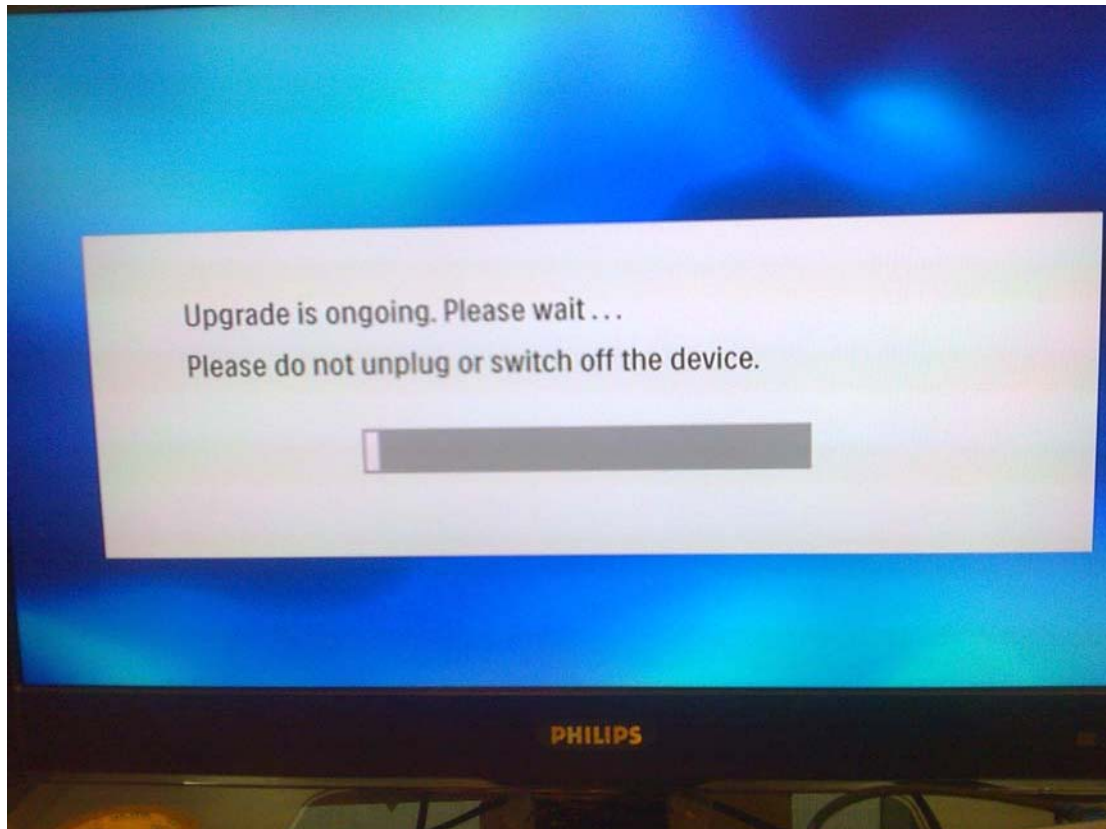
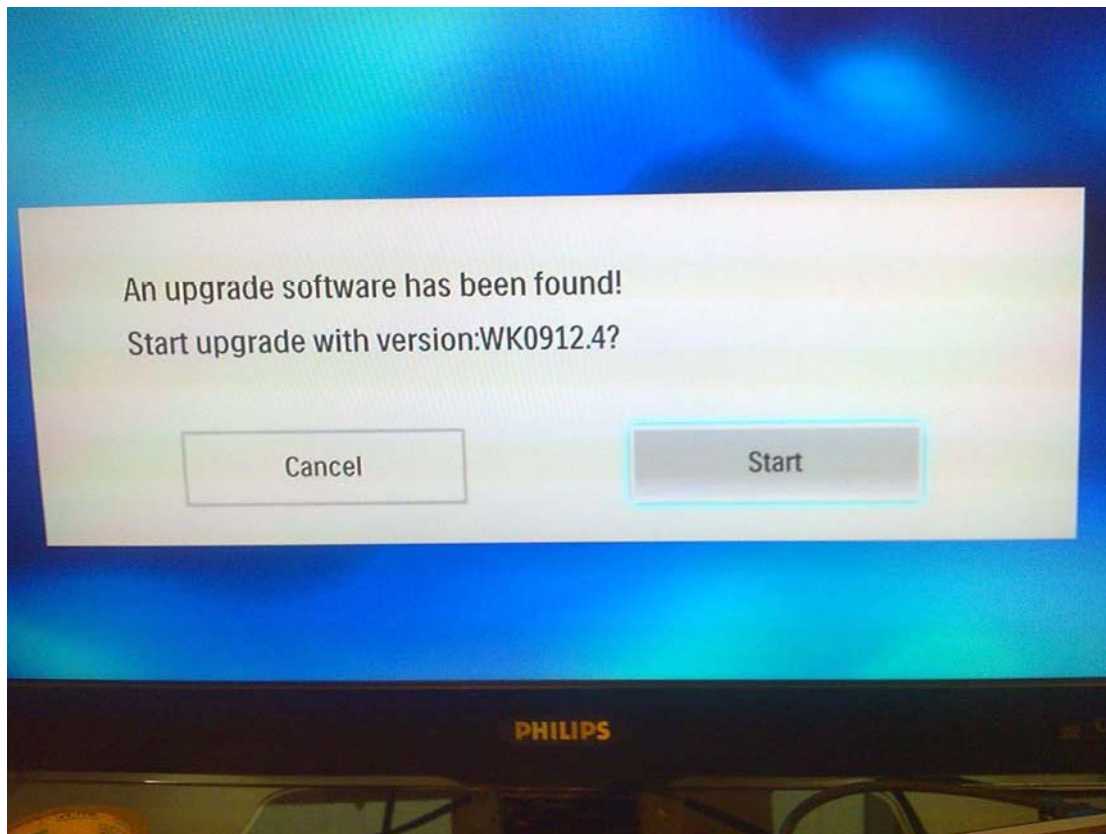


6. While BD Player find Loader Firmware, press OK.



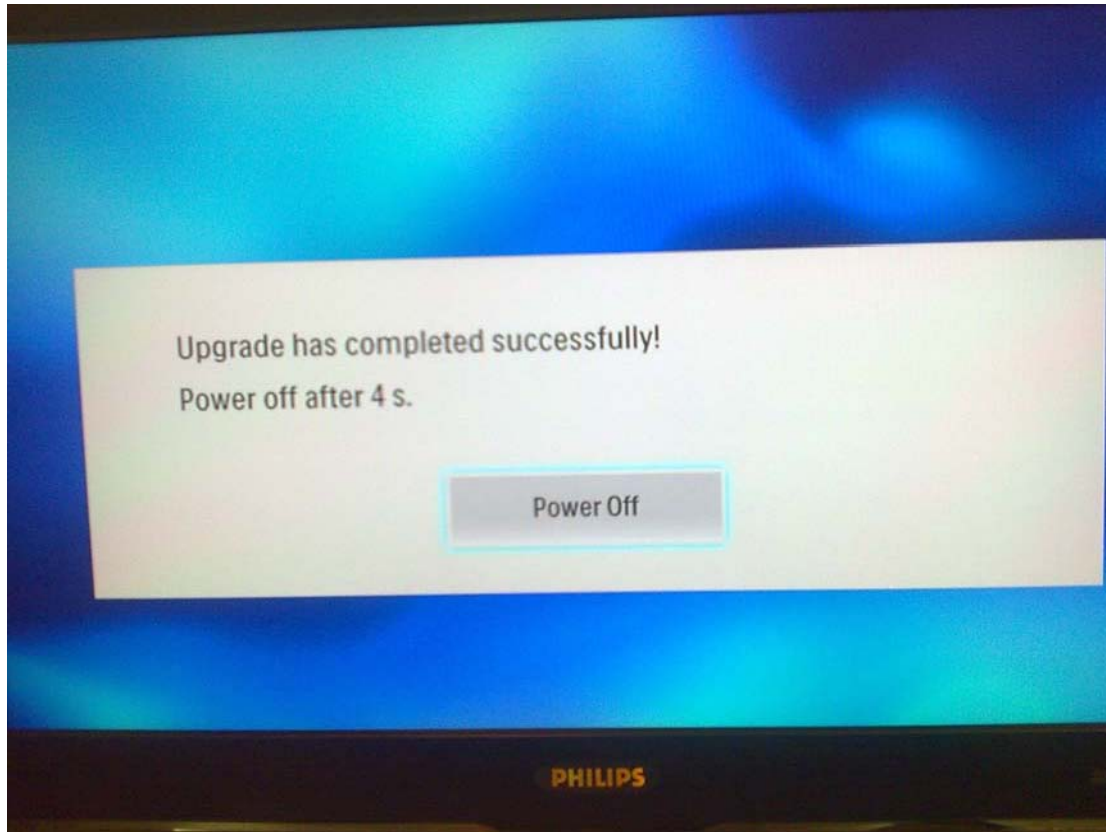
Firmware Upgrading Procedure

7. After finish upgrade Loader, BD Player will search System Firmware.
While BD Player found System Firmware, press Ok.



Firmware Upgrading Procedure

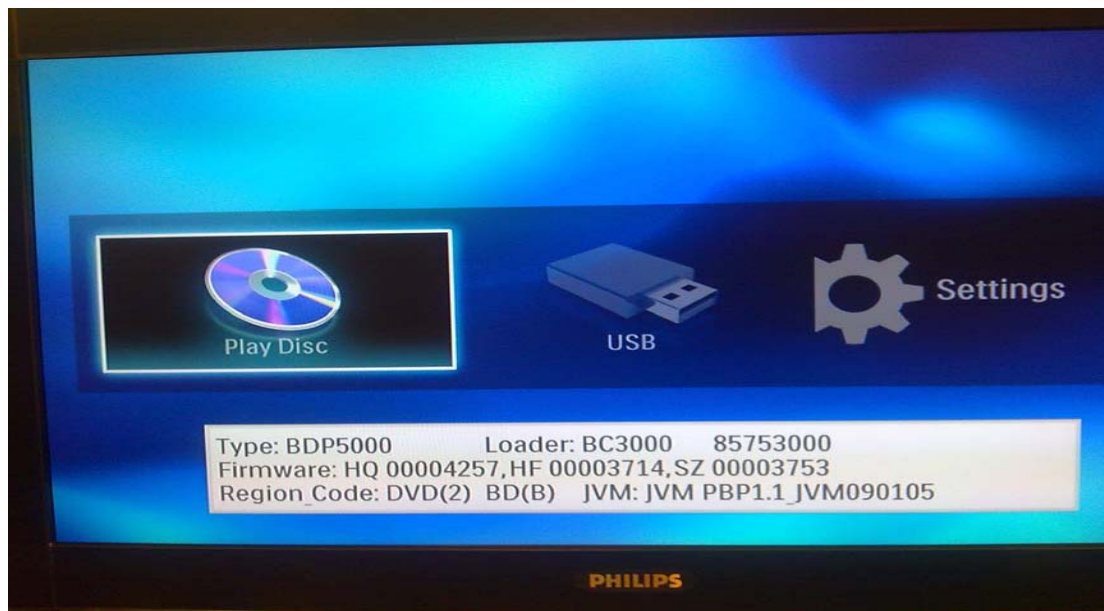
8. After finish upgrade System Firmware, BD Player will power-off.



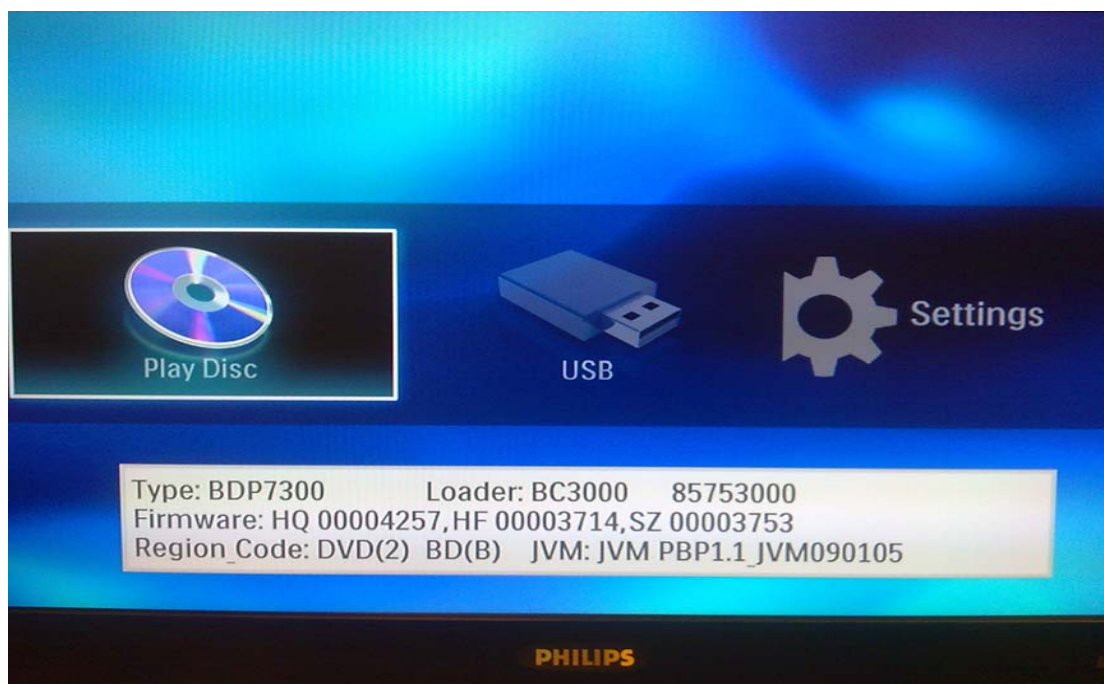
Firmware Upgrading Procedure

9. After reboot BD Player , press digit keys “8520” at Home Menu , BD Player will show the information like below picture.

BDP5000



BDP7300



Please make sure “**Firmware : HQ00004257**” and “**Loader : BC3000**” is showed. And it means firmware update of both System and Loader is successfully.

10. While upgrade failed, please recheck with following steps:

1. Make sure firmware file name is same as the list..
2. Make sure folder “UPG” is under root directory on USB Thumb Drive , and firmware file is in the folder .
3. Make sure USB Thumb Drive can be worked.

Notice : “Firmware : HQ00004257” and “Loader : BC3000” will be different while use different version to upgrade firmware ! In this doc we use HQ4257 (Wk912.4) to test.

5-2 Service Diagnostics Process

Auto-Test will be used for diagnostics process test. Once the Auto-Test is started and it will run whole process. If one of process test failed, Auto-Test will be stop and the “**Error code**” (Table 1) will be showed on VFD (pic1). If test passed, the “**ALL PASS**” will be showed for 10 seconds and then back to Standby mode.

Error Code	Test failure
ERR 01	Optical Drive communication failure
ERR 02	Ethernet Phy. Chip failure
ERR 03	CEC MCU communication failure
ERR 04	6 ch DAC communication failure
ERR 05	No RC code received (after 10s)

Table1. Auto test error code

5-2-1 How to start Auto-Test

When system is at standby mode, keep pressing “Eject” and “Play” key in 10 seconds simultaneously.

5-2-2 Front Panel test

There are two steps included in this test.

Step1. Check VFD:

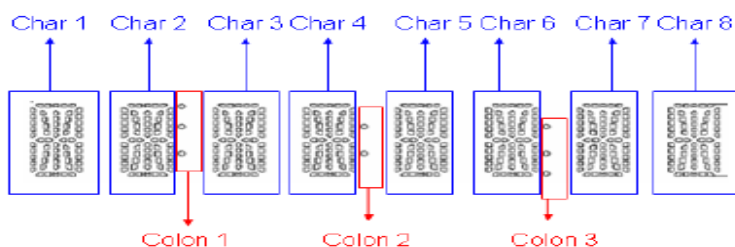
- Light up all VFD items, including Char1-8 and colon 1-3 (Picture 1) for 3 seconds.

Step2. Check IR:

- Turn off all VFD items, then show [INPUT IR] on VFD.
- Wait IR key with 10 seconds timeout:

If receive IR key in 10 seconds, proceed to next text.

If there is no IR key received, the IR test is FAIL and need show error code (**ERR 05**) on VFD.



Picture1. VFD items

5-2-3 Drive Test

- Read Drive ID through SATA Cable:
If Drive ID test fail, the error code (**ERR 01**) will be showed on VFD.
If test is passed, go on to next process test.

5-2-4 Ethernet phy Test

- Ping local host to make sure the chip is Ok:
If Ping result ailed, the error code (**ERR 02**) will be showed on VFD.
If test is passed, go on to next process test.

5-2-5 CEC MCU Test

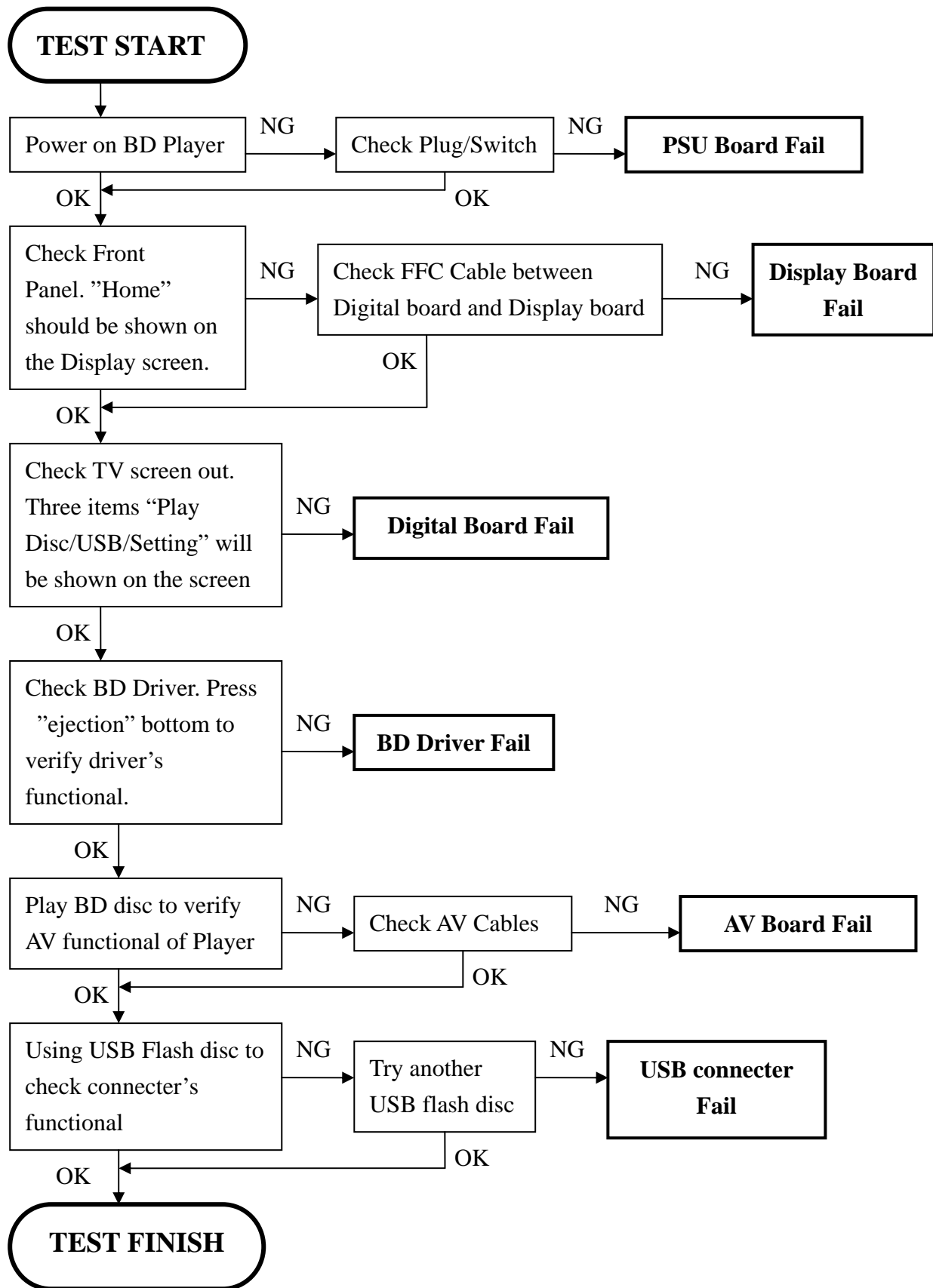
- Read CEC MCU version:
If read version failed, the error code (**ERR 03**) will be showed on VFD.
If test is passed, go on to next process test.

5-2-6 6 ch audio DAC Test

- Read version of audio DAC:
If audio DAC test failed, the error code (**ERR 04**) will be showed on VFD.
If test is passed, the VFD will show "ALL PASS" for 10 second and then back to Standby mode.

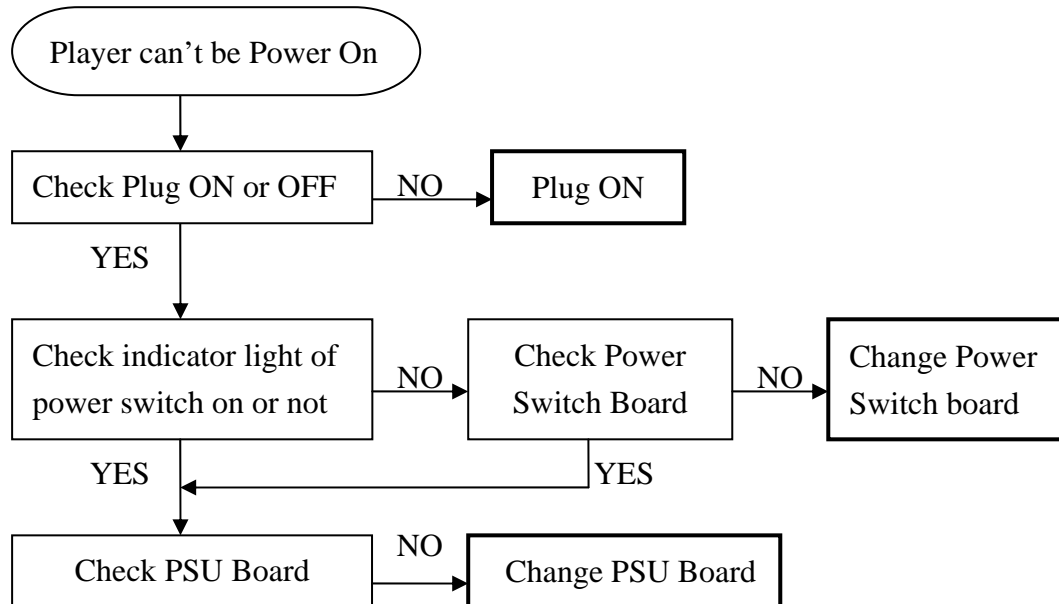
6. Functional Test & Trouble Shooting Procedures

6-1 Flow Chart on How to Filter between Working and Defective Sets

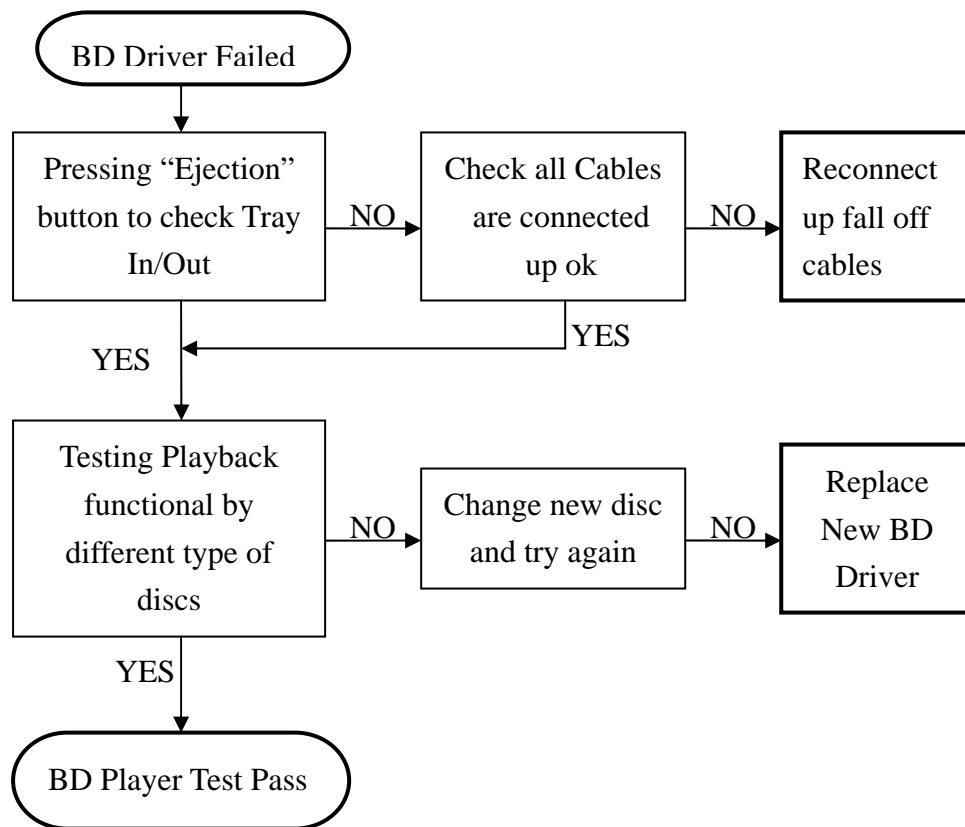


6-2 Trouble Shooting

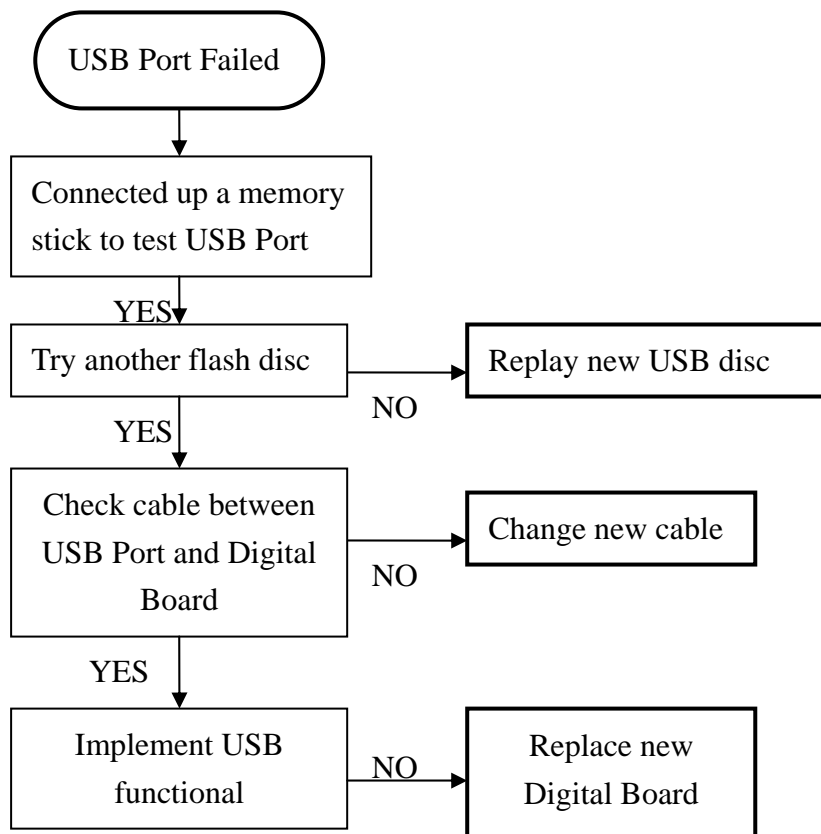
6-2-1 Player can not be power on



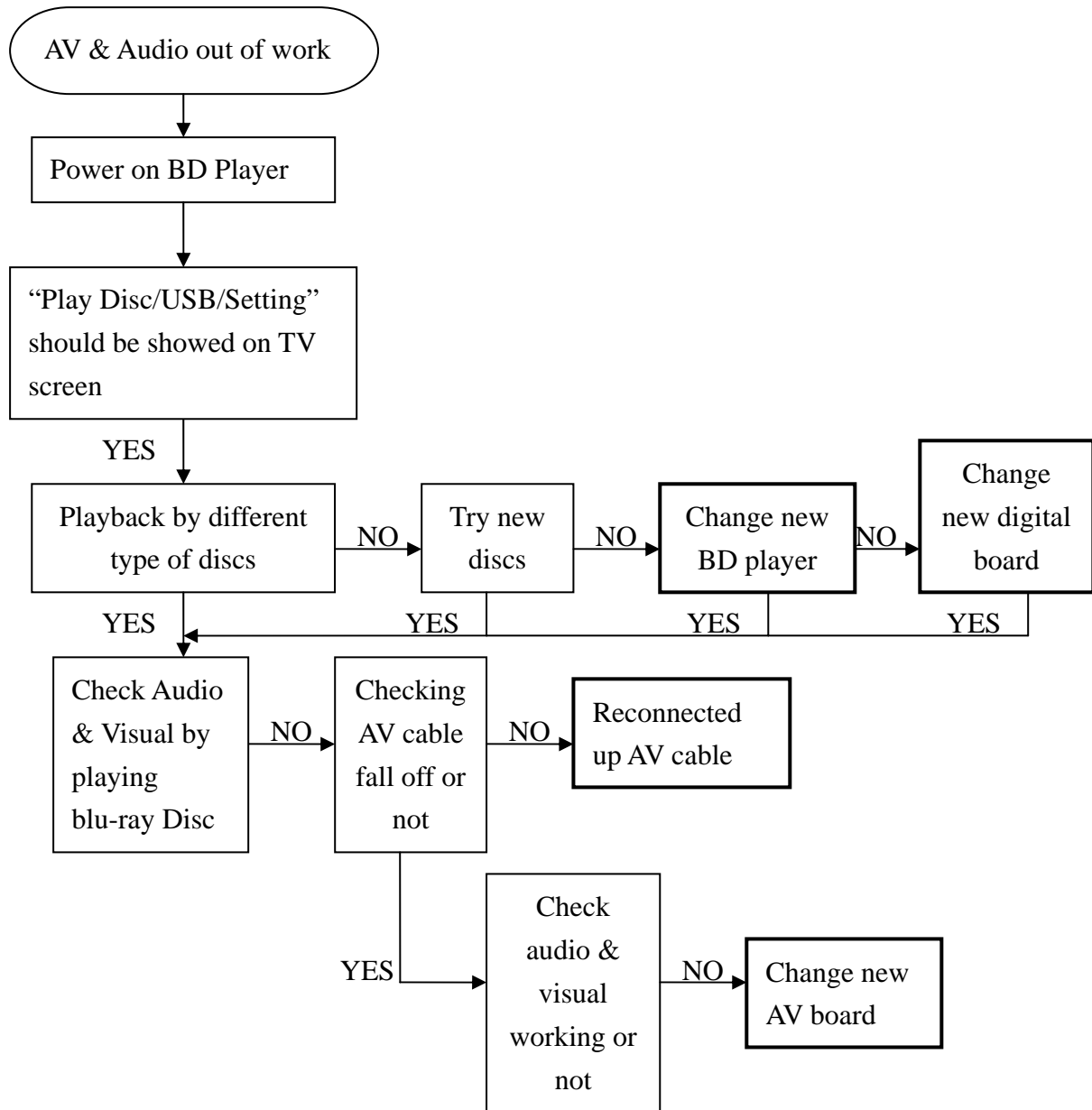
6-2-2 BD Driver (Loader) can not be functioned

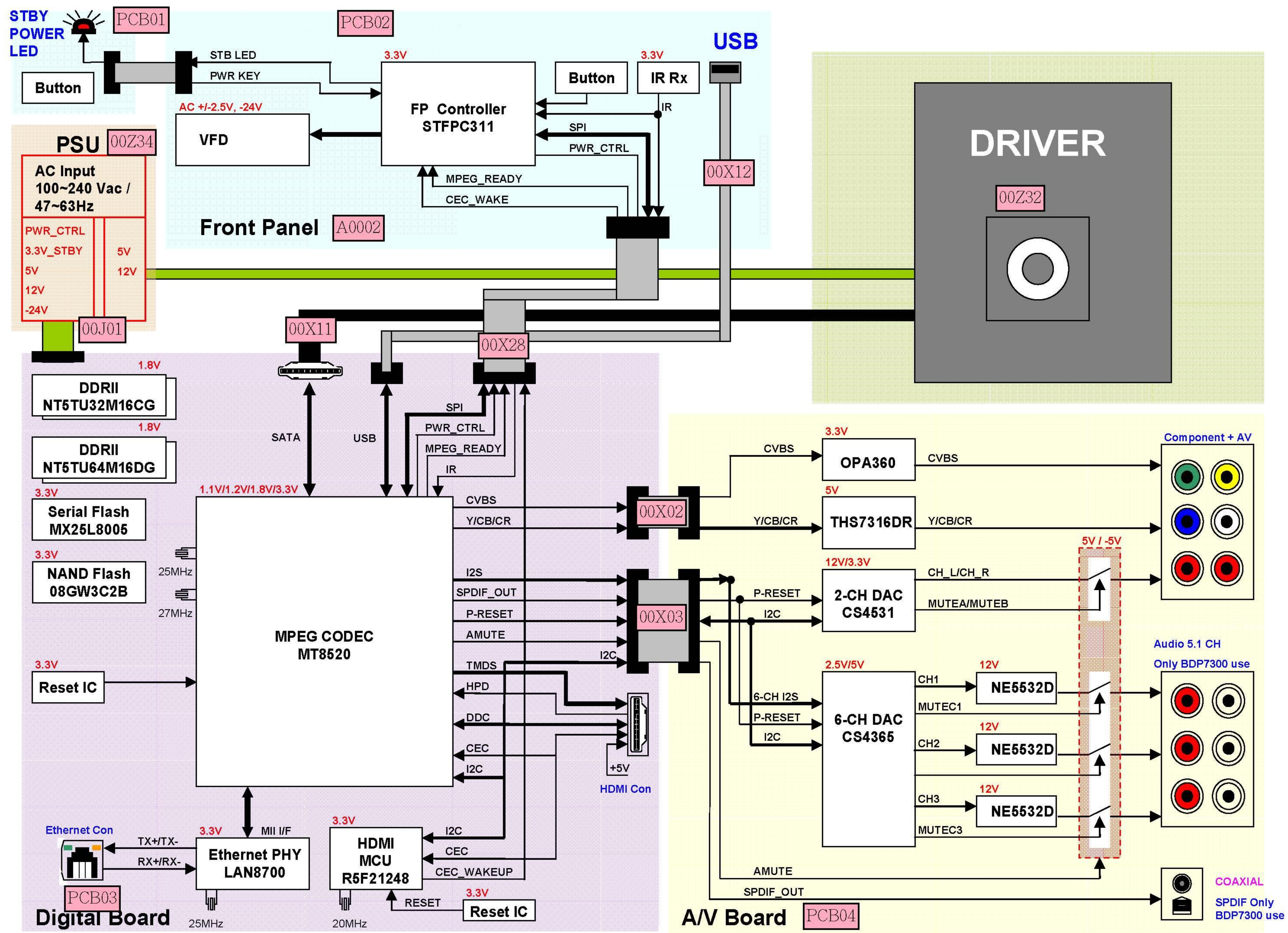


6-2-3 USB port can not be functioned



6-2-4 AV can not be implemented

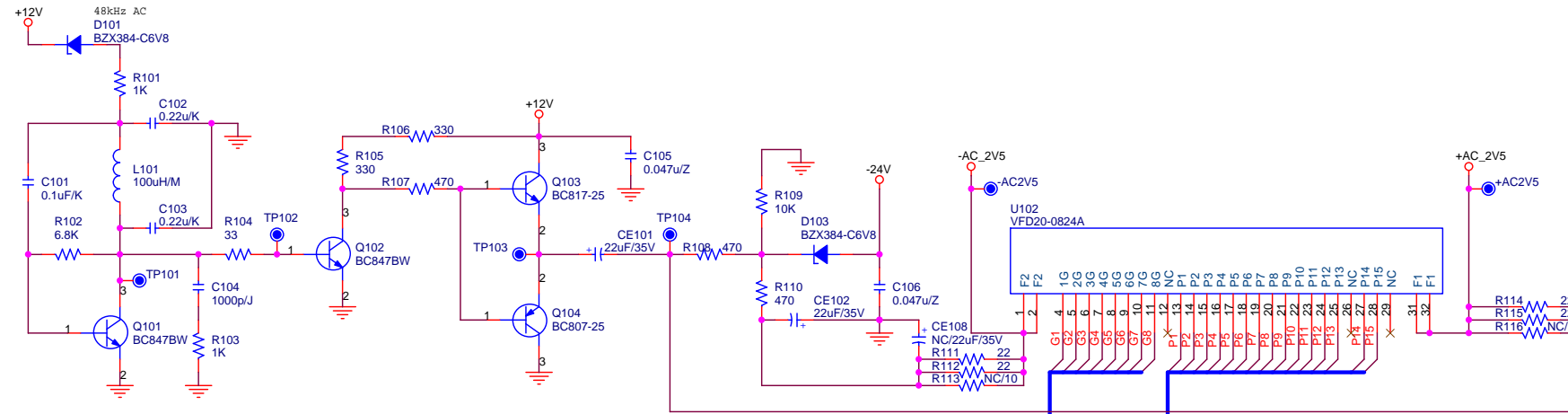
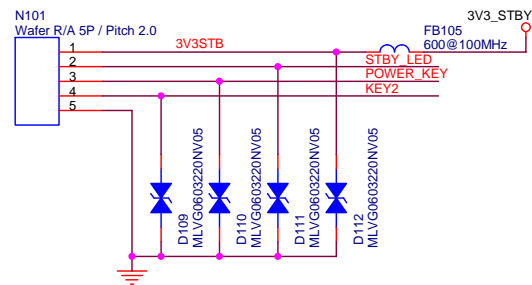




7-2 Front Board Diagrams

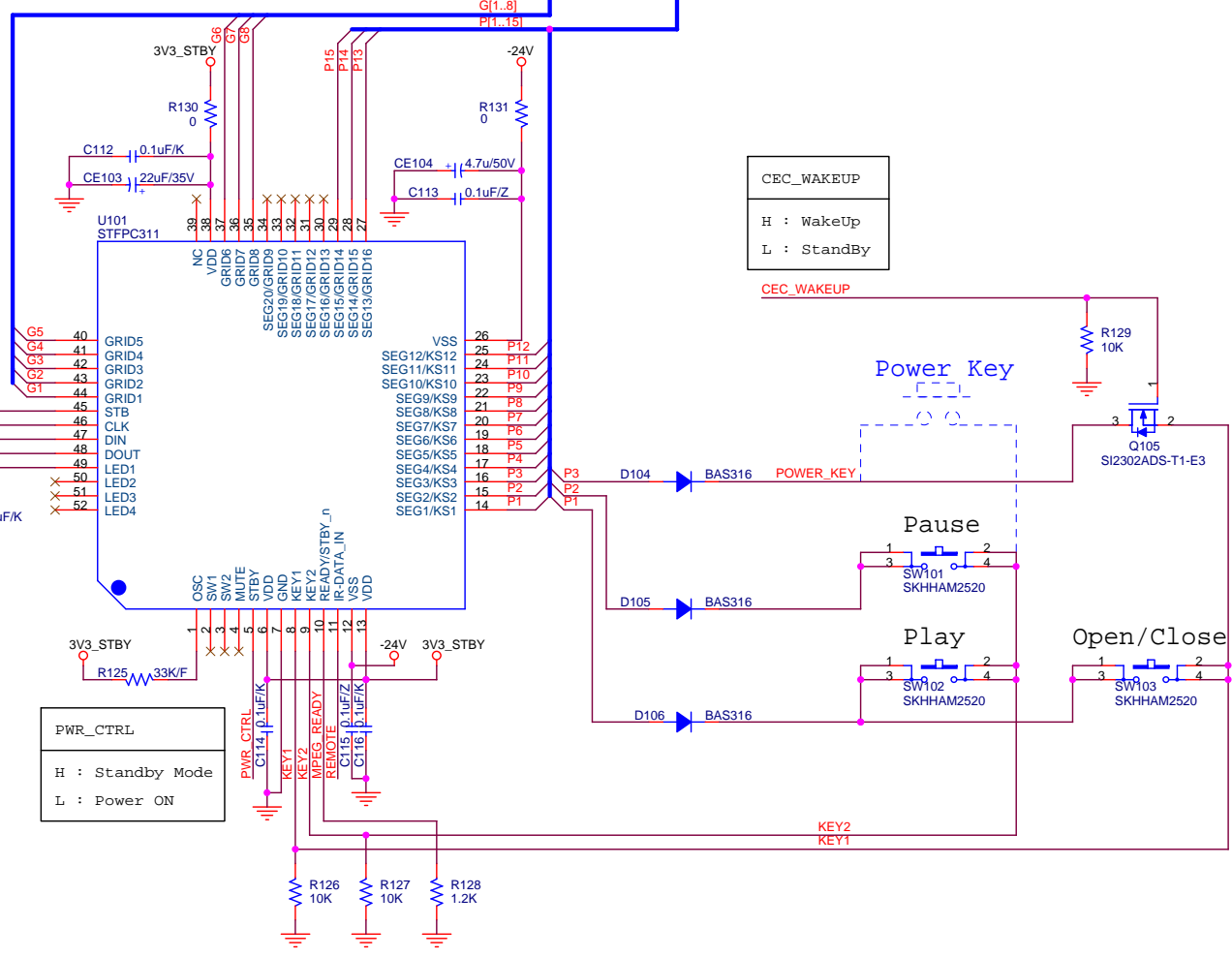
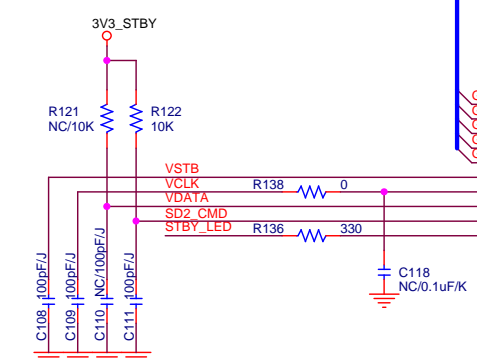
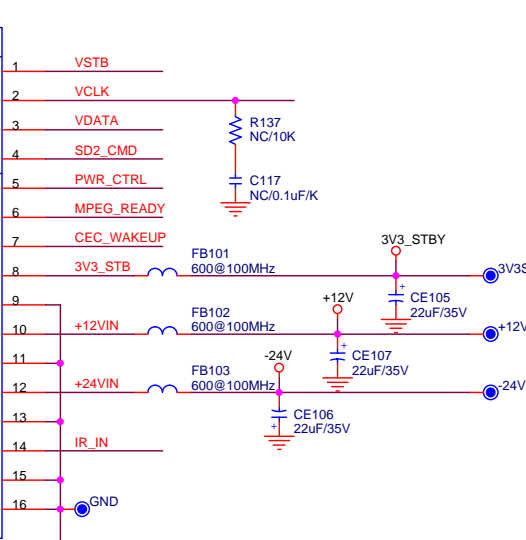
Front Board Circuit

To Power SW BD



N102
FPC16P/Pitch 1.0mm

BDP	BDHTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STB	I2C_SCL	VSTB															
CLK	IIC_INT_FP	VCLK															
DATAin	I2C_SDA	VDATA															
DATAout	MPEG_RESET	SD2_CMD															
	STBY_CTRL	PWR_CTRL															
	MPEG_READY	MPEG_READY															
	CEC_WAKEUP	CEC_WAKEUP															
	3V3_STBY	3V3_STB															
	GND																
	12V	+12VIN															
	GND																
	VGN	+24VIN															
	GND																
	IR_IN	IR_IN															
	GND																
	GND																



CEC_WAKEUP

H	: WakeUp
L	: StandBy

Power Key

Pause

Play

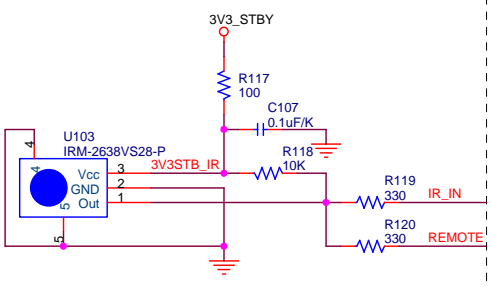
Open/Close

PWR_CTRL

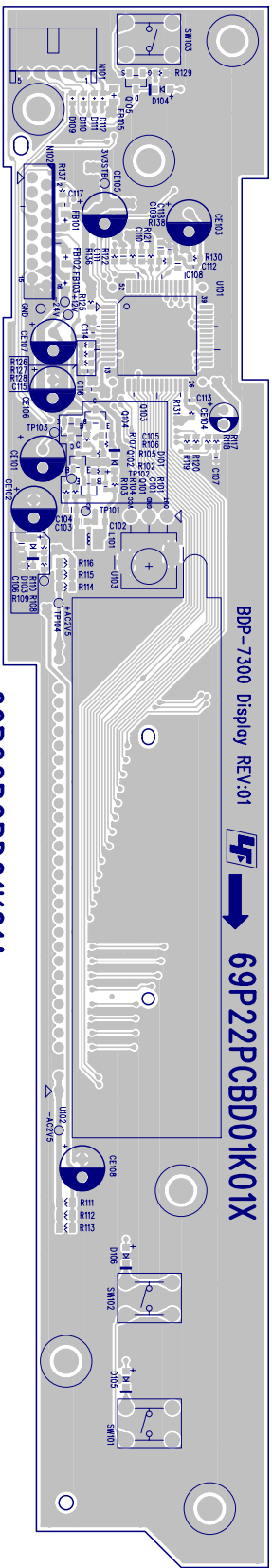
H	: Standby Mode
L	: Power ON



IR Receiver



Front Board Layout



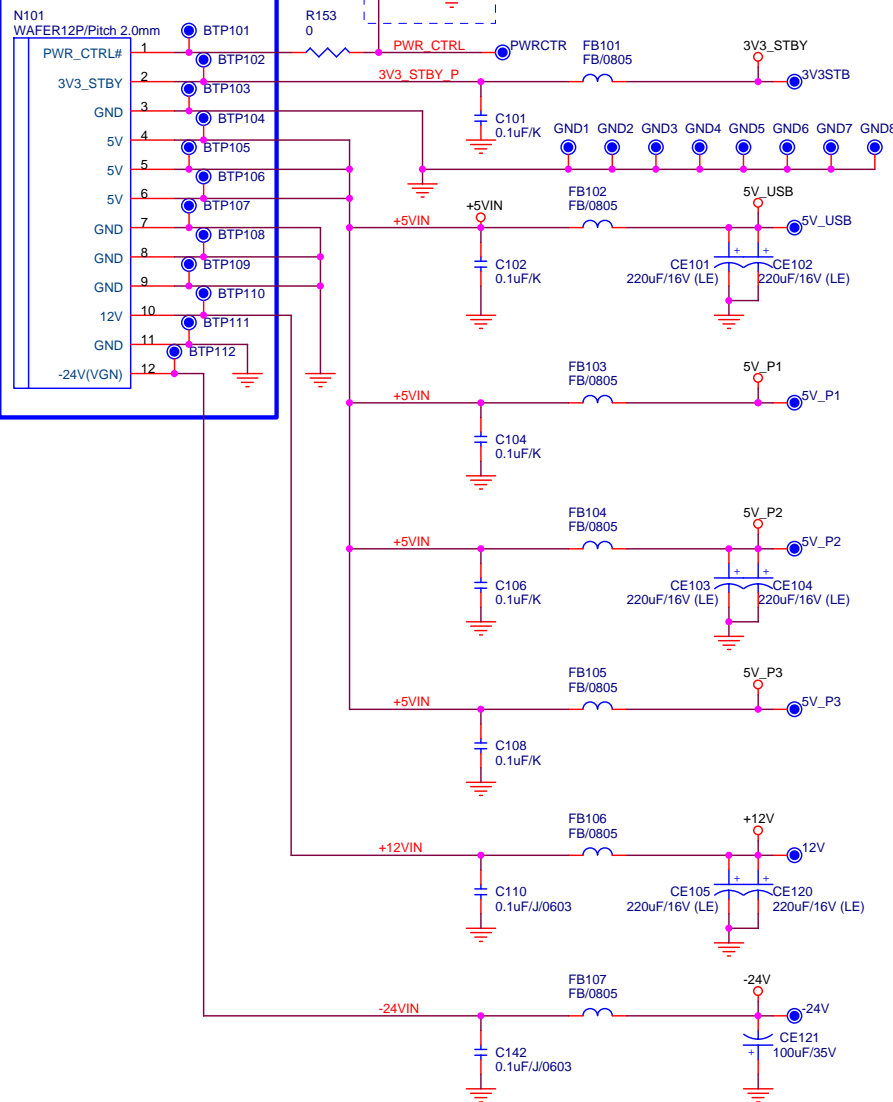
69P22PCBD01K01A

BOARD NAME: BDP-7300 Display	
FILM NAME: Silk, screen, Top Side	
FILE NAME: BDP-7300 Display_01A	SHEET: 1 OF 8
DRN: Nicole Chen	VERSION: 01A
	DATE: 2009/01/08

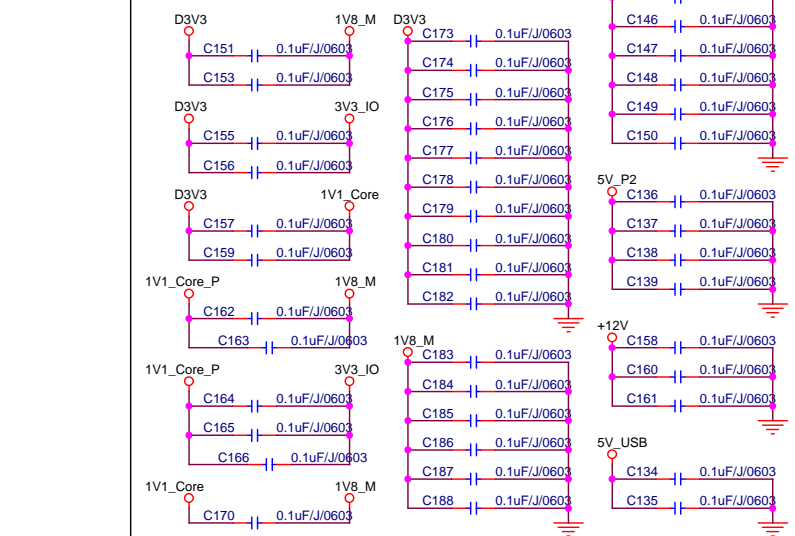
PCB LAYER	2 LAYER
PCB THICKNESS	1.24/-0.13 mm
LAYER 1	TOP SIDE
LAYER 2	BOTTOM SIDE
GLASS	UL 94-V0
HOLE POSITION TOLERANCE	+/-0.08 mm
IC Connector(0.4mm)	Pad Size 0.23+/-0.02 mm
IC Connector(0.5mm)	Pad Size 0.3+0.02/-0.04mm

To Power Module

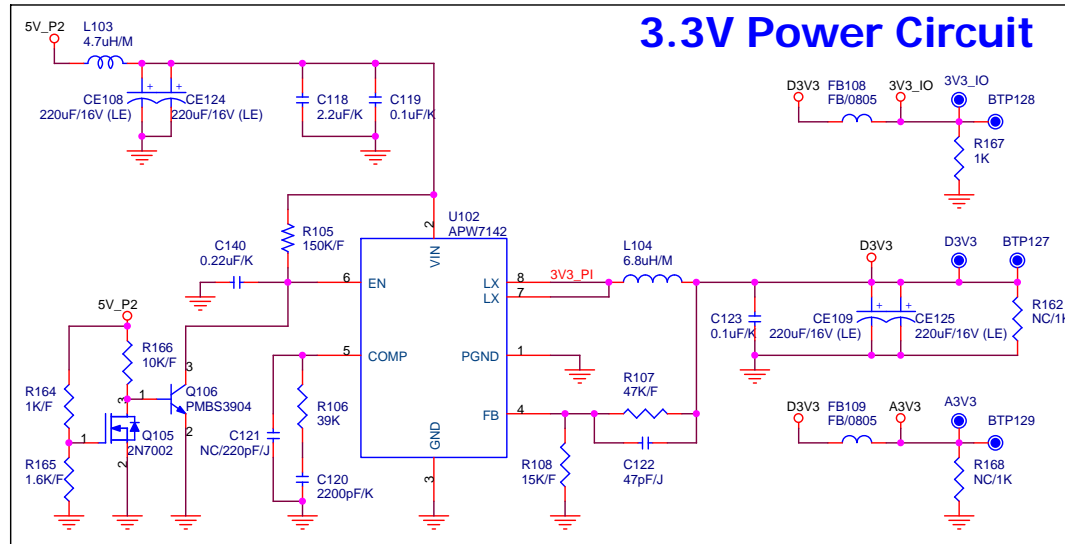
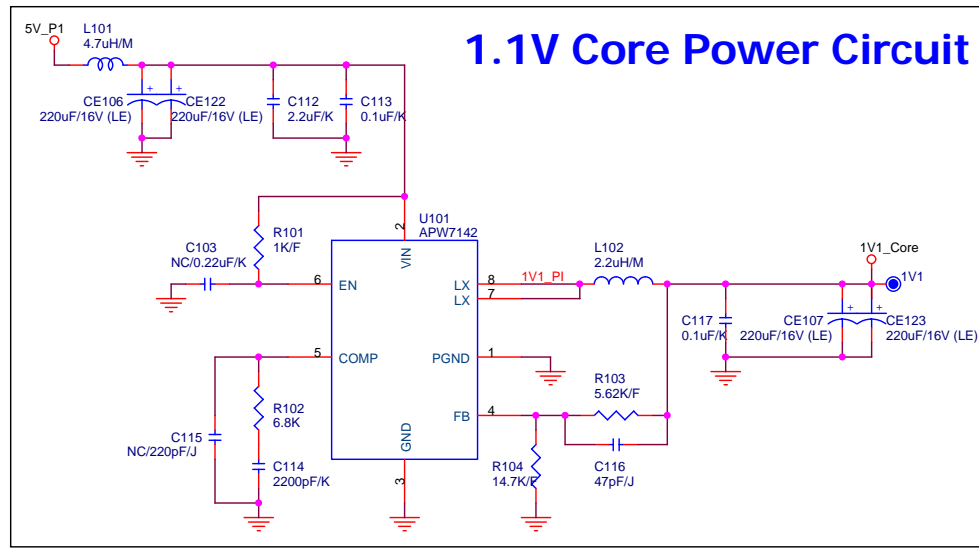
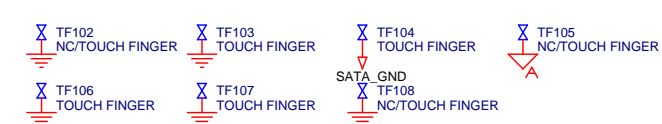
BDP use V
HTS use R/A Type



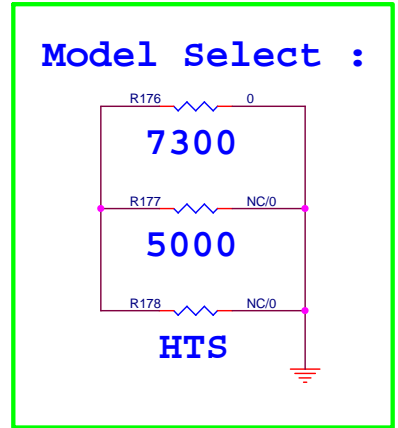
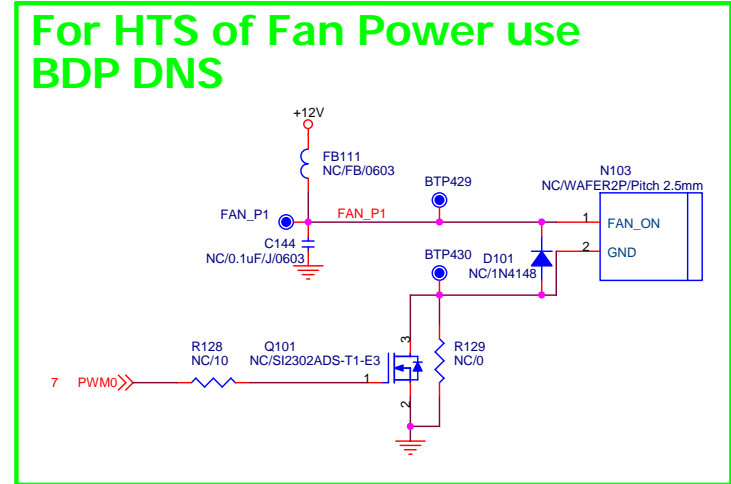
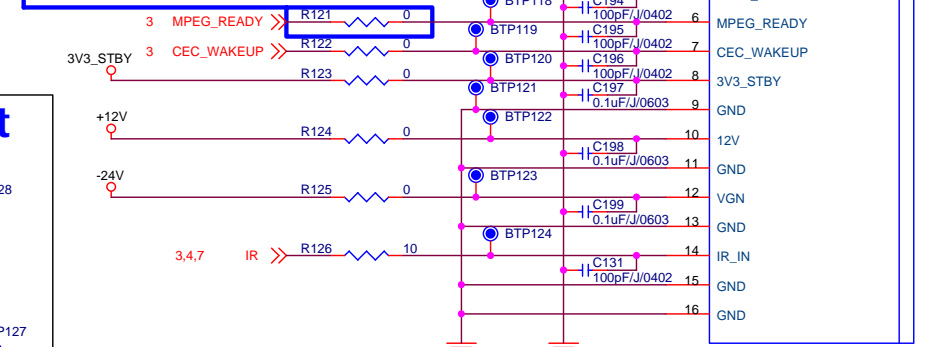
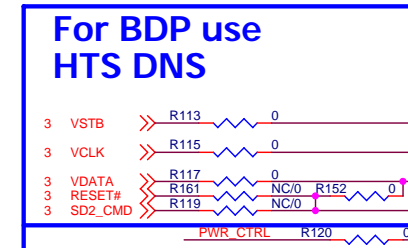
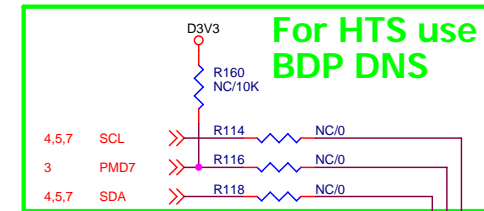
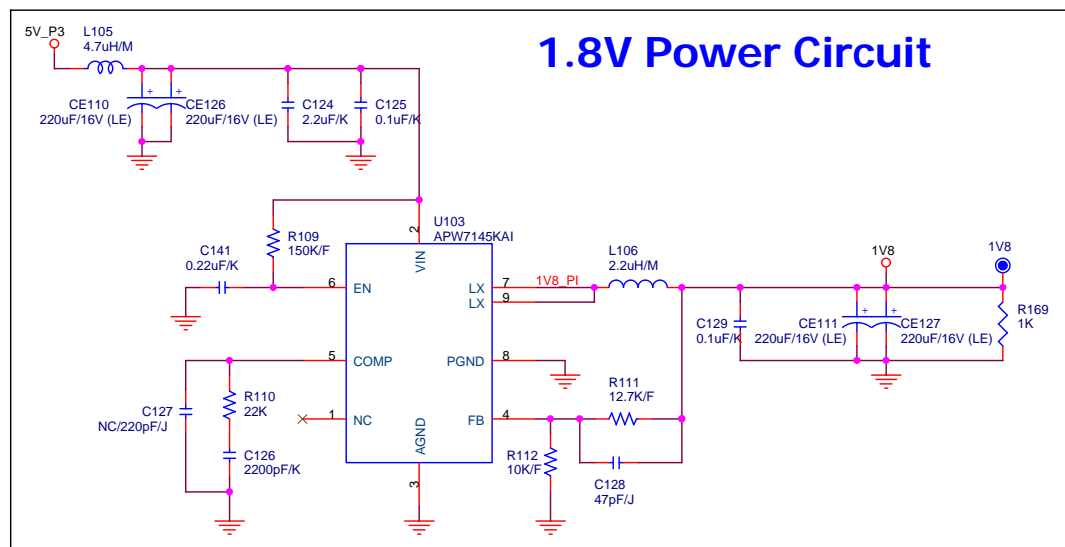
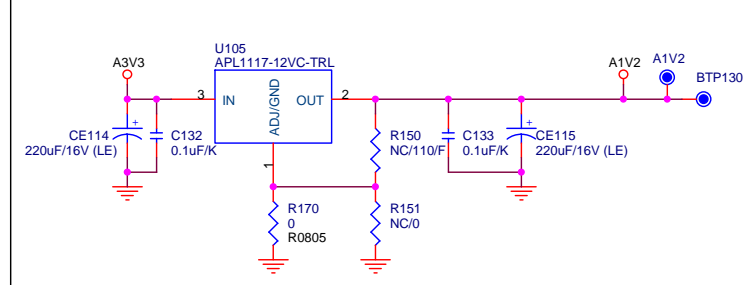
EMI solution



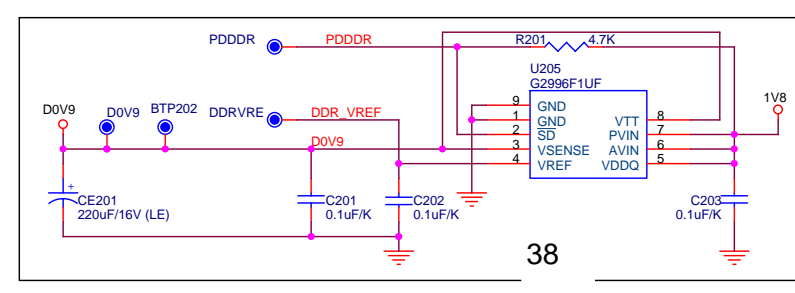
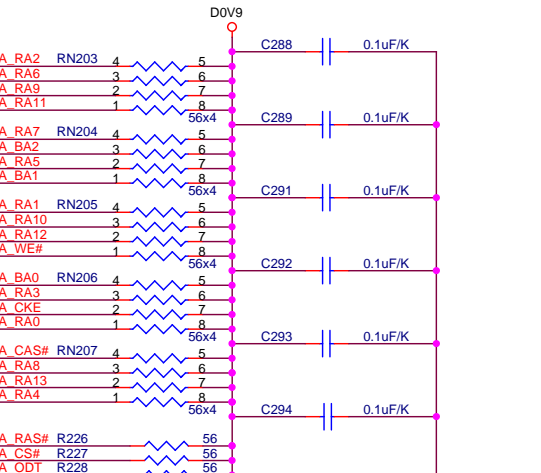
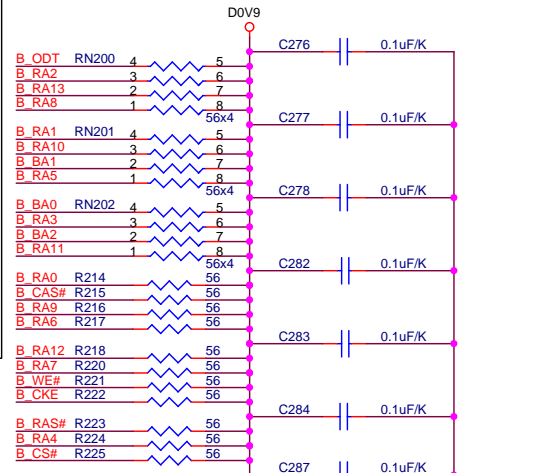
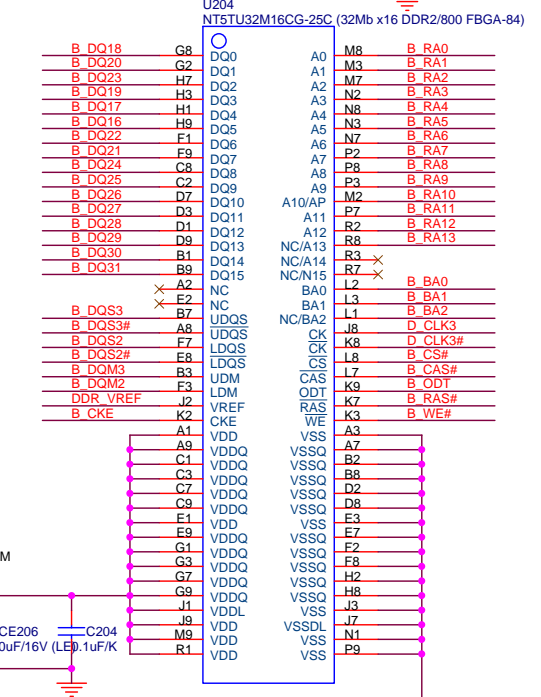
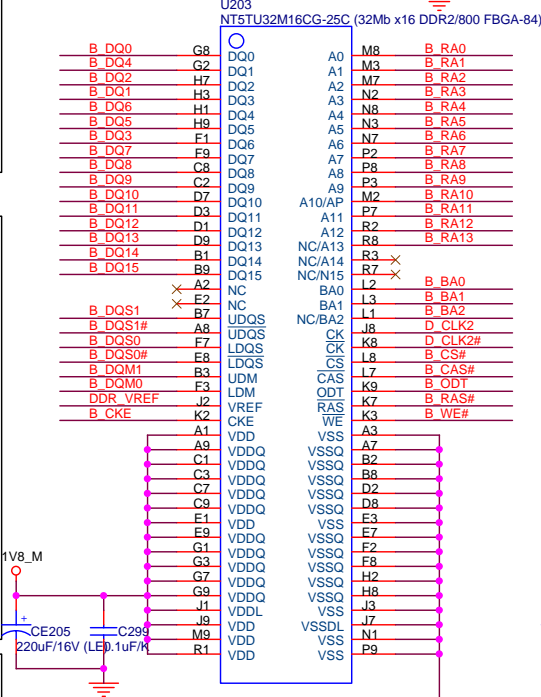
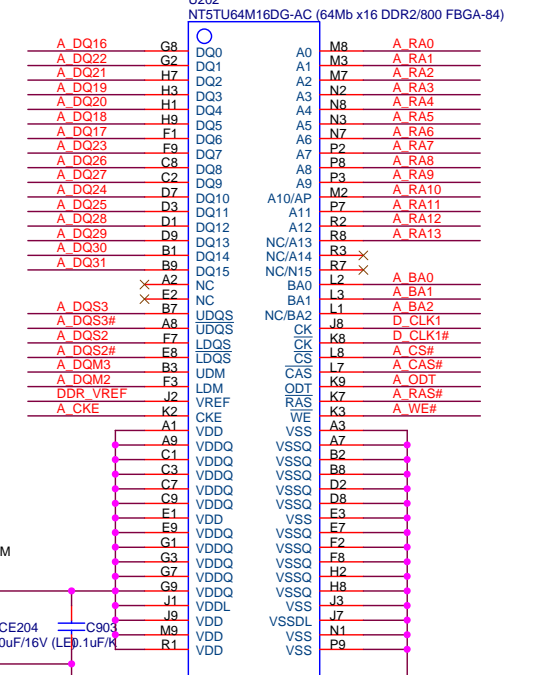
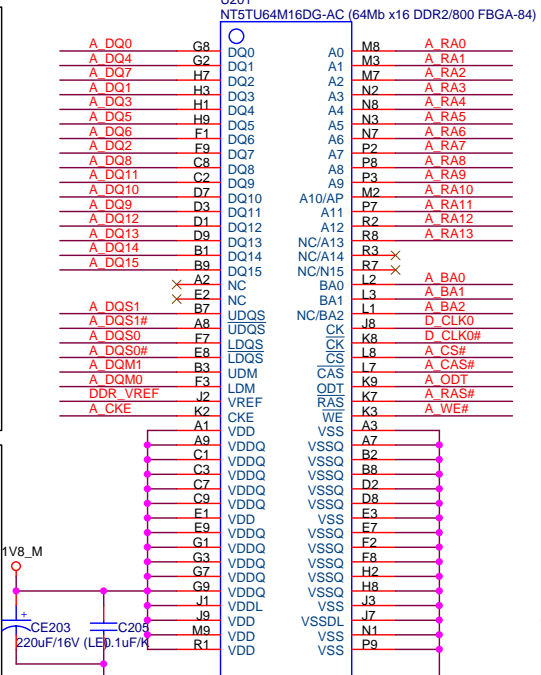
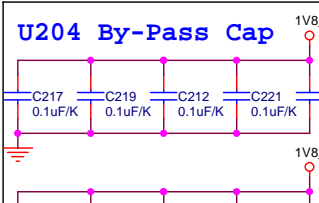
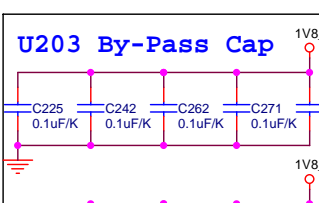
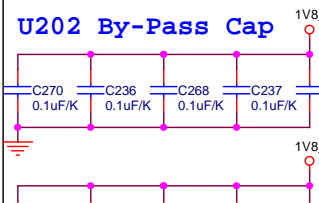
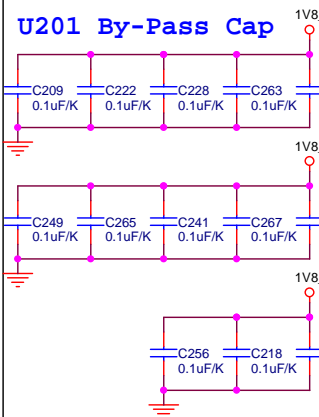
EMI Solution for SPRING use



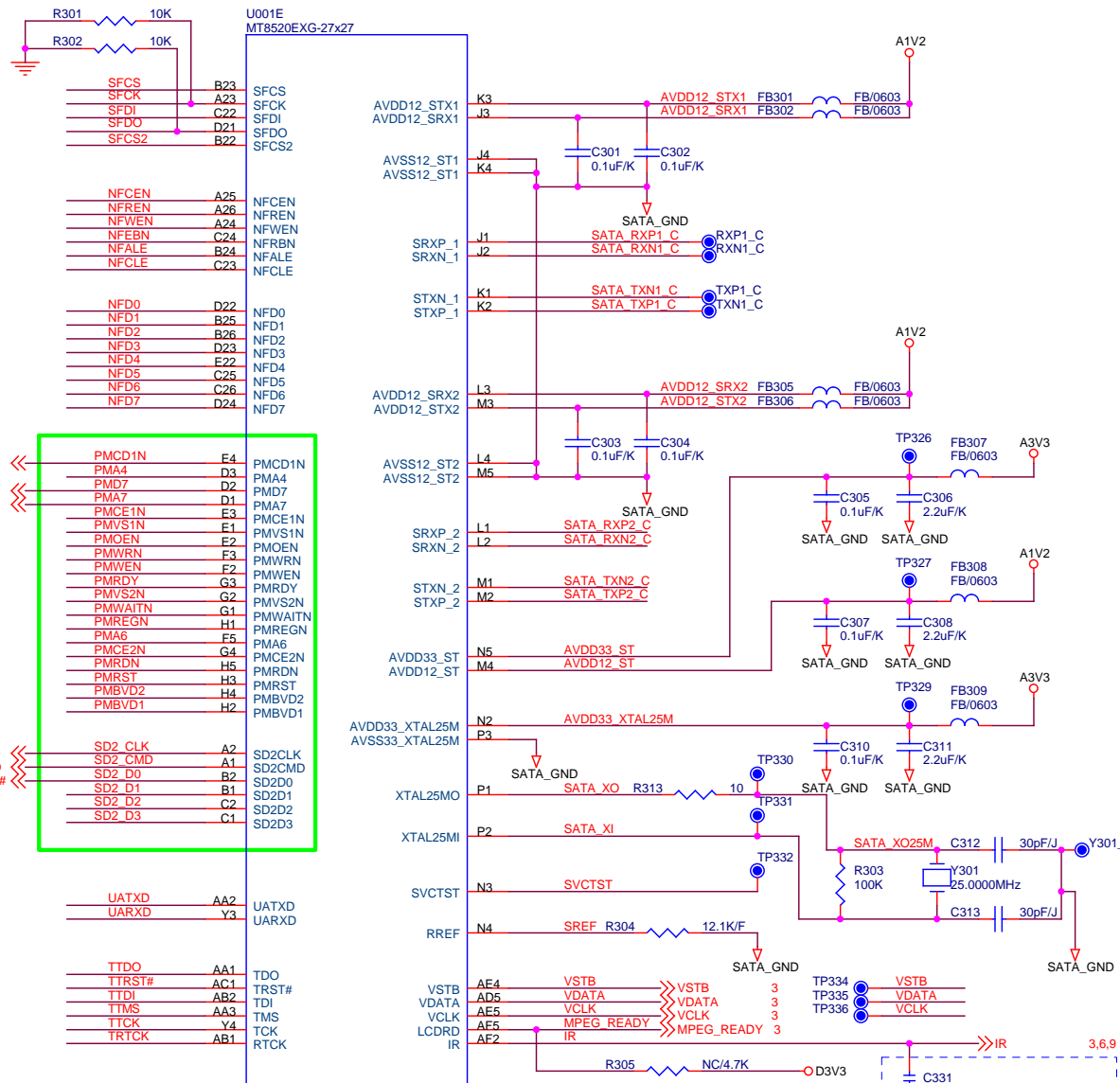
A1.2V Power Circuit



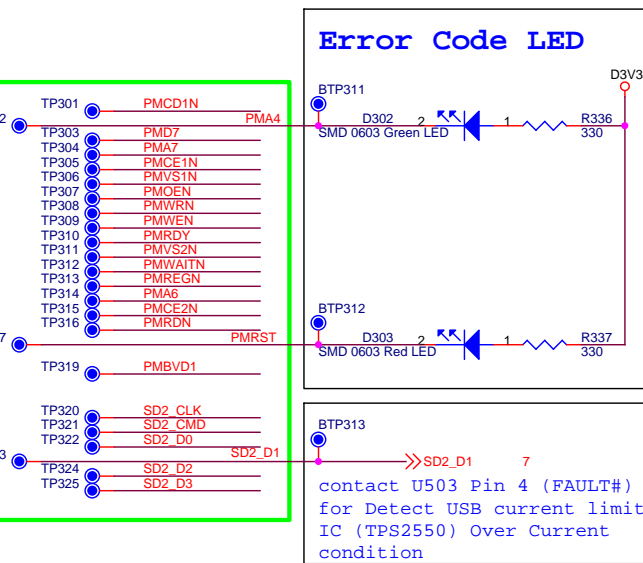
Digital Board Circuit - 2



Digital Board Circuit - 3



PMCD1N	E4	PMCD1N
PMA4	D3	PMA4
PMD7	D2	PMD7
PMA7	D1	PMA7
PMCE1N	E3	PMCE1N
PMV51N	E1	PMV51N
PMOEN	E2	PMOEN
PMWRN	F3	PMWRN
PMWEN	F2	PMWEN
PMRDY	G3	PMRDY
PMV52N	G2	PMV52N
PMWAITN	G1	PMWAITN
PMREGN	H1	PMREGN
PMA6	F5	PMA6
PMCE2N	G4	PMCE2N
PMRDN	H5	PMRDN
PMRST	H3	PMRST
PMBVD2	H4	PMBVD2
PMBVD1	H2	PMBVD1
SD2_CLK	A2	SD2CLK
SD2_CMD	A1	SD2CMD
SD2_D0	B1	SD2D0
SD2_D1	B2	SD2D1
SD2_D2	C2	SD2D2
SD2_D3	C1	SD2D3
UATXD	AA2	UATXD
UARXD	Y3	UARXD
TTRST#	AA1	TRST#
TTDI	AB2	TDI
TTMS	AA3	TMS
TRTCK	Y4	TCK
TRTCK	AB1	RTCK

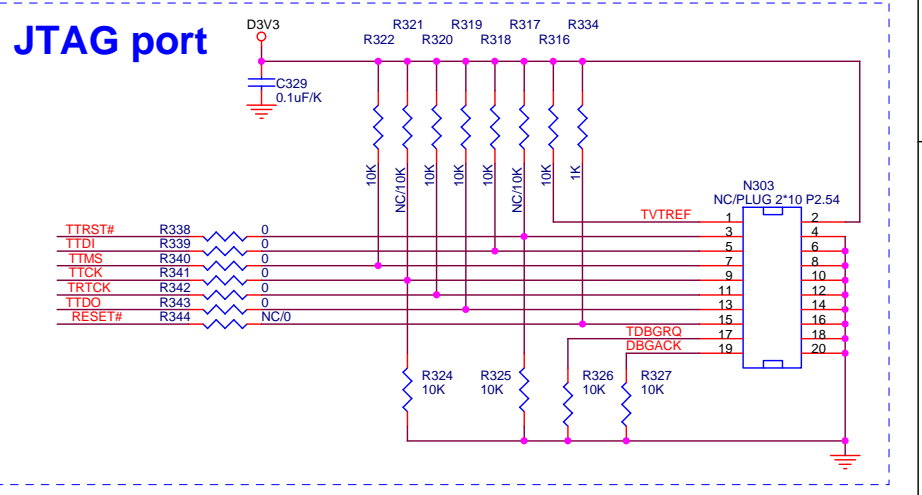
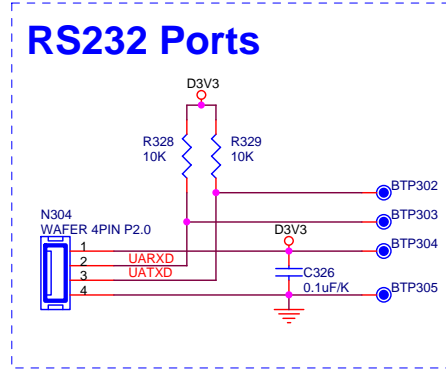
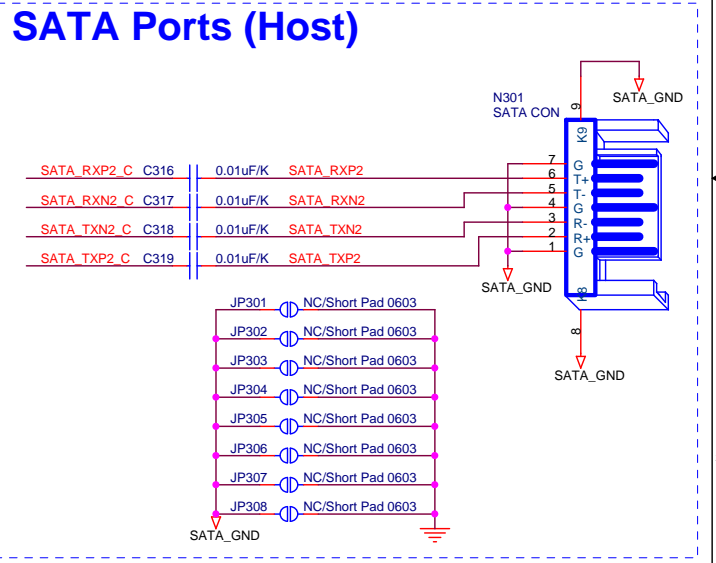
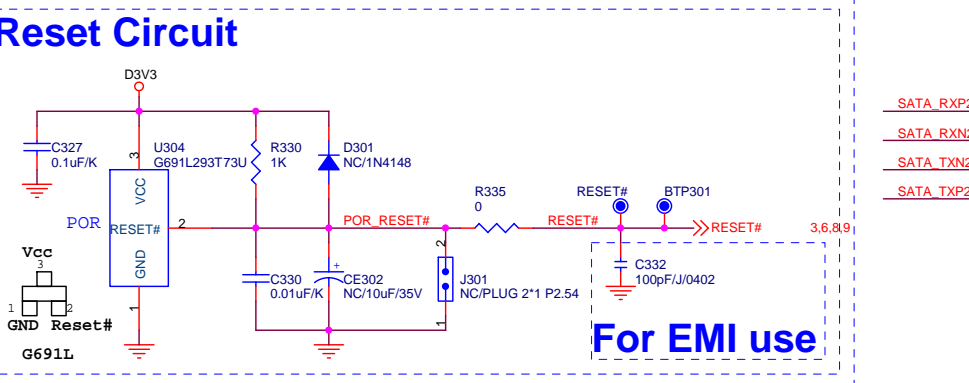
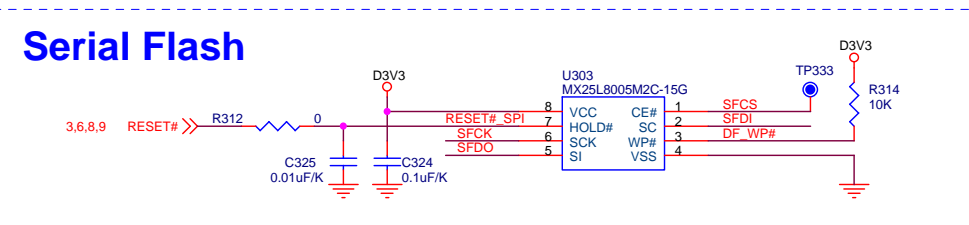
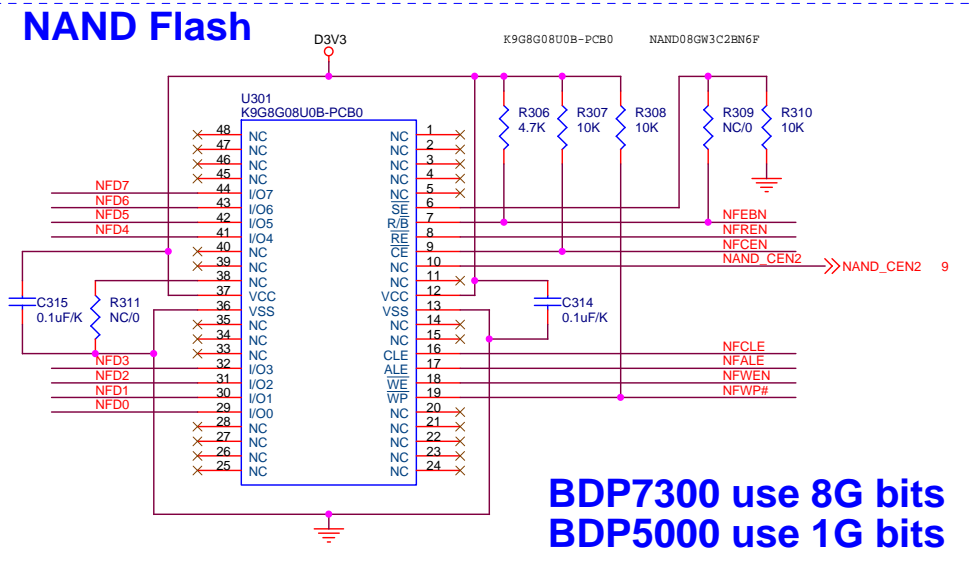


contact N401 Pin 21 (ADC Reset#)
for BDP-HTS of Audio I/F use.

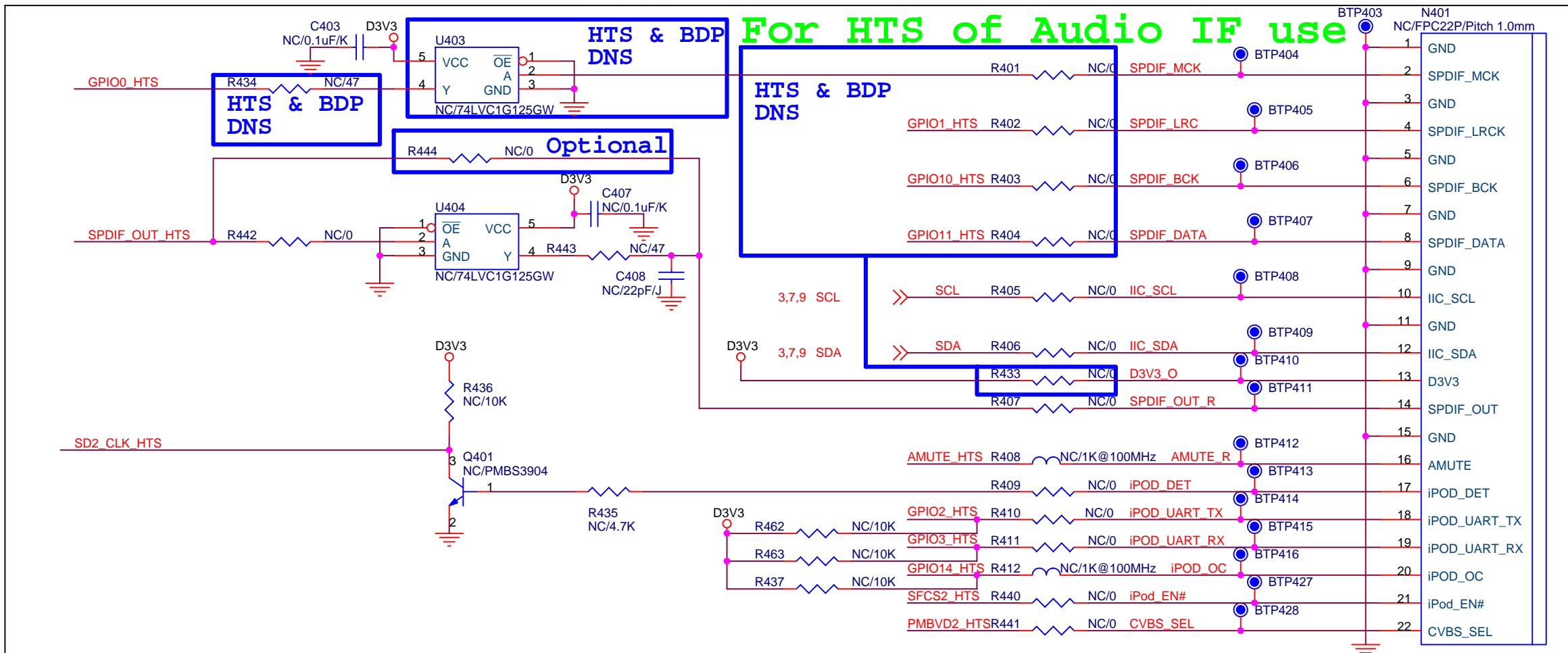
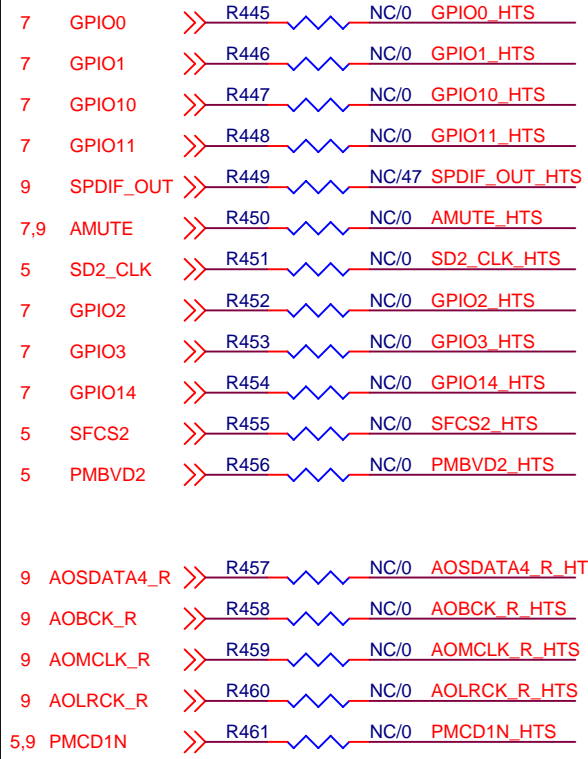
TP337 SFCS2 → SFCS2 6

TP318 PMBVD2 → PMBVD2 6

contact N401 Pin 22 (LINE Detect)
for BDP-HTS of Audio I/F use.

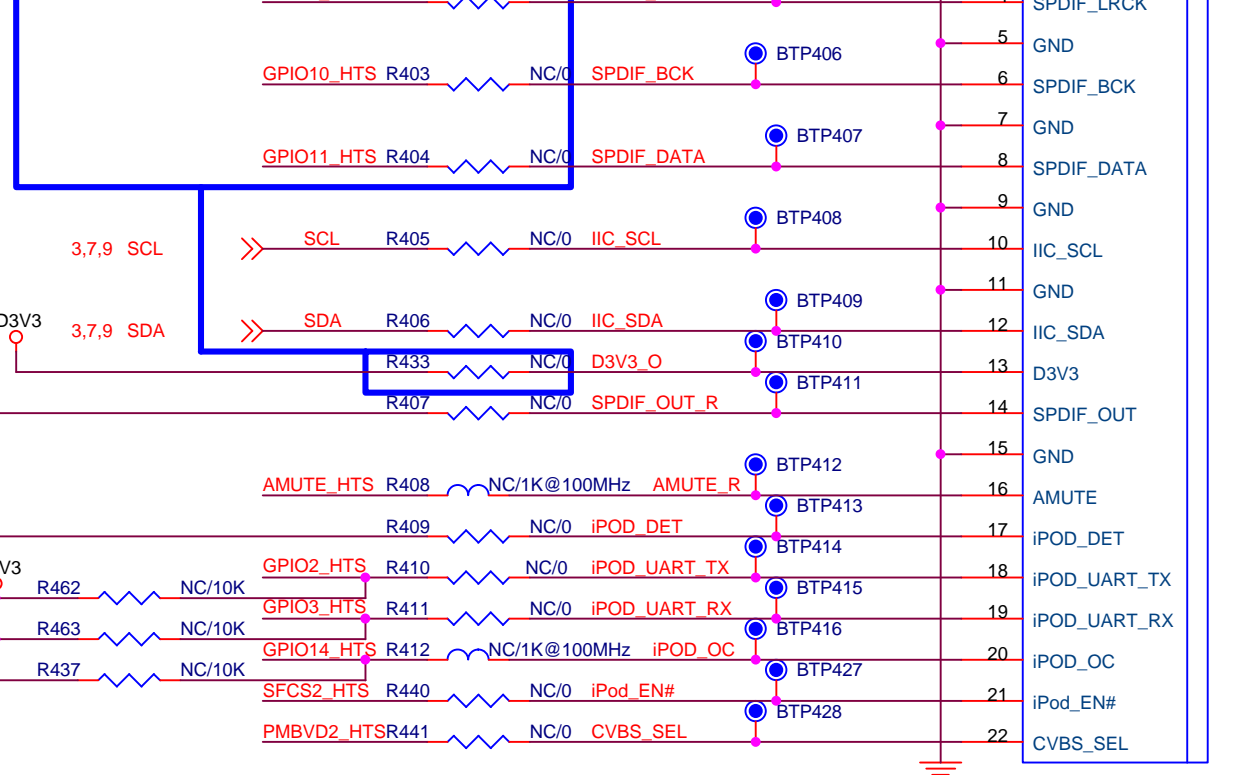


For EMI solution cut trace use

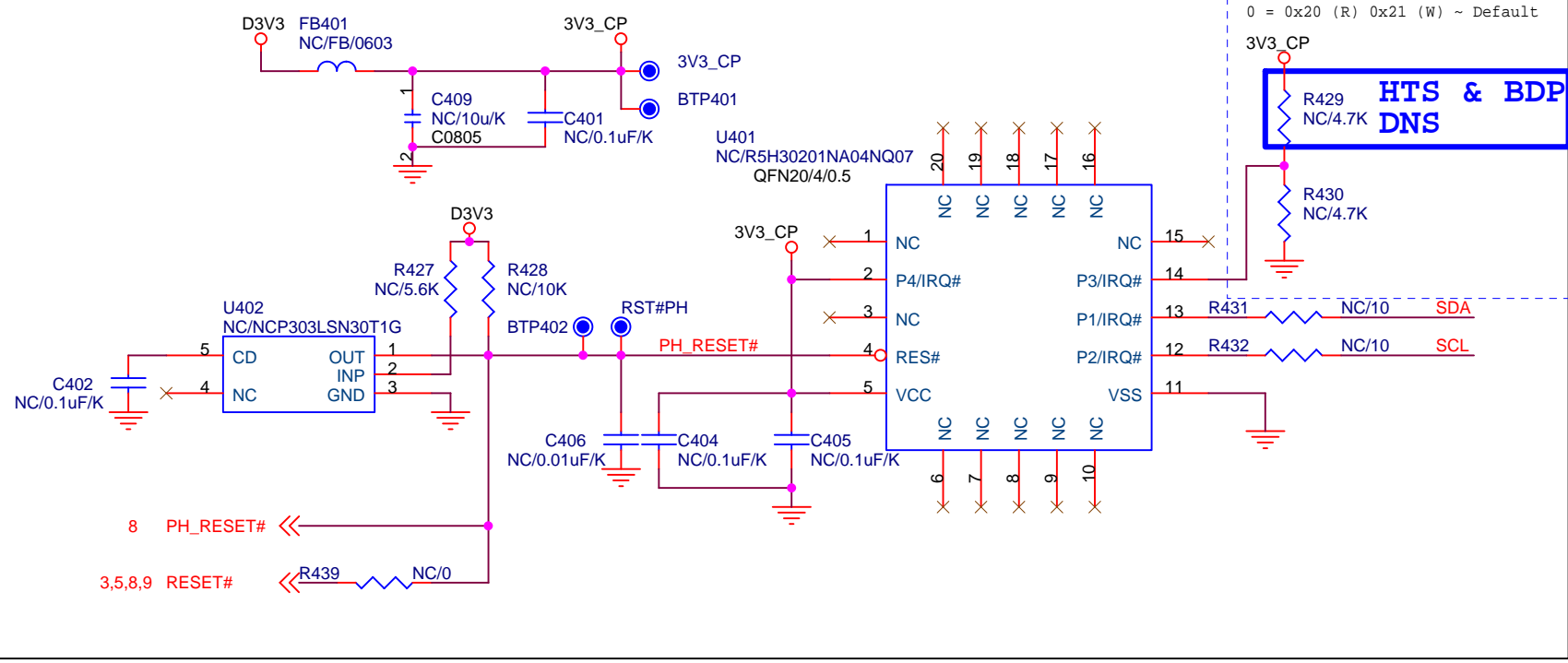


For HTS of Audio IF use

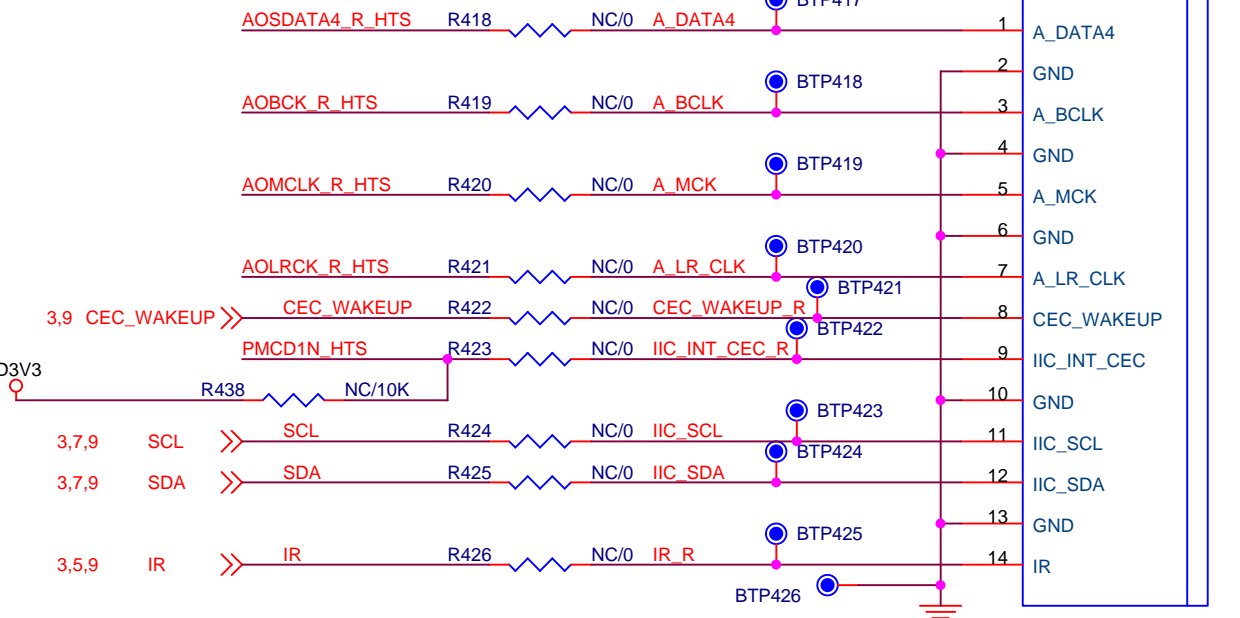
HTS & BDP DNS



For HTS of iPod_CP Circuit

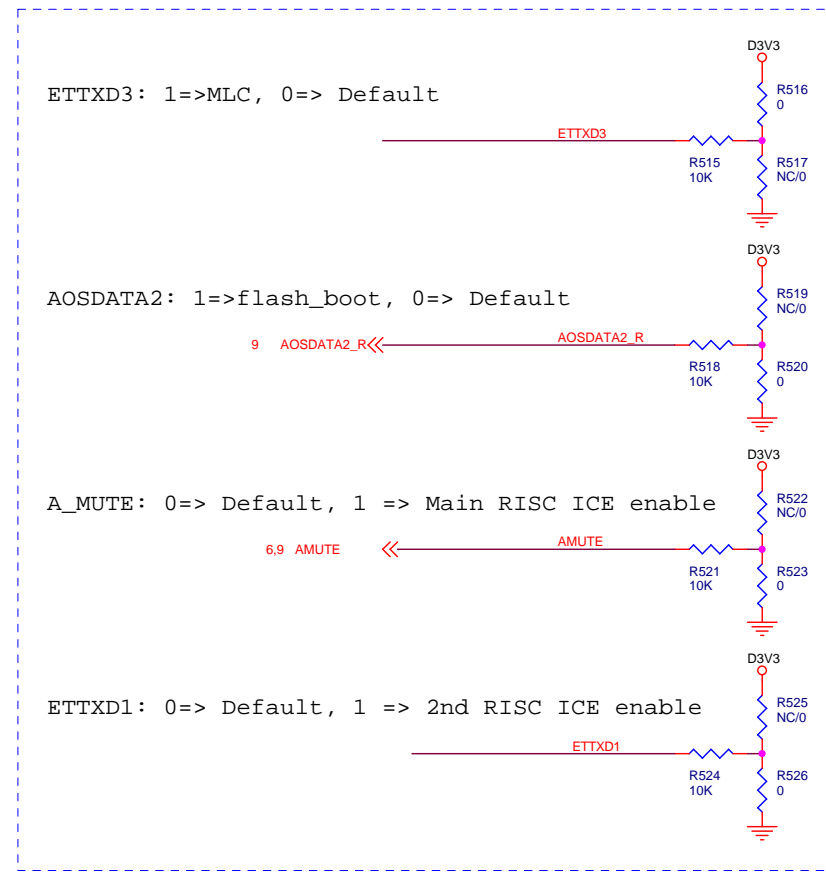
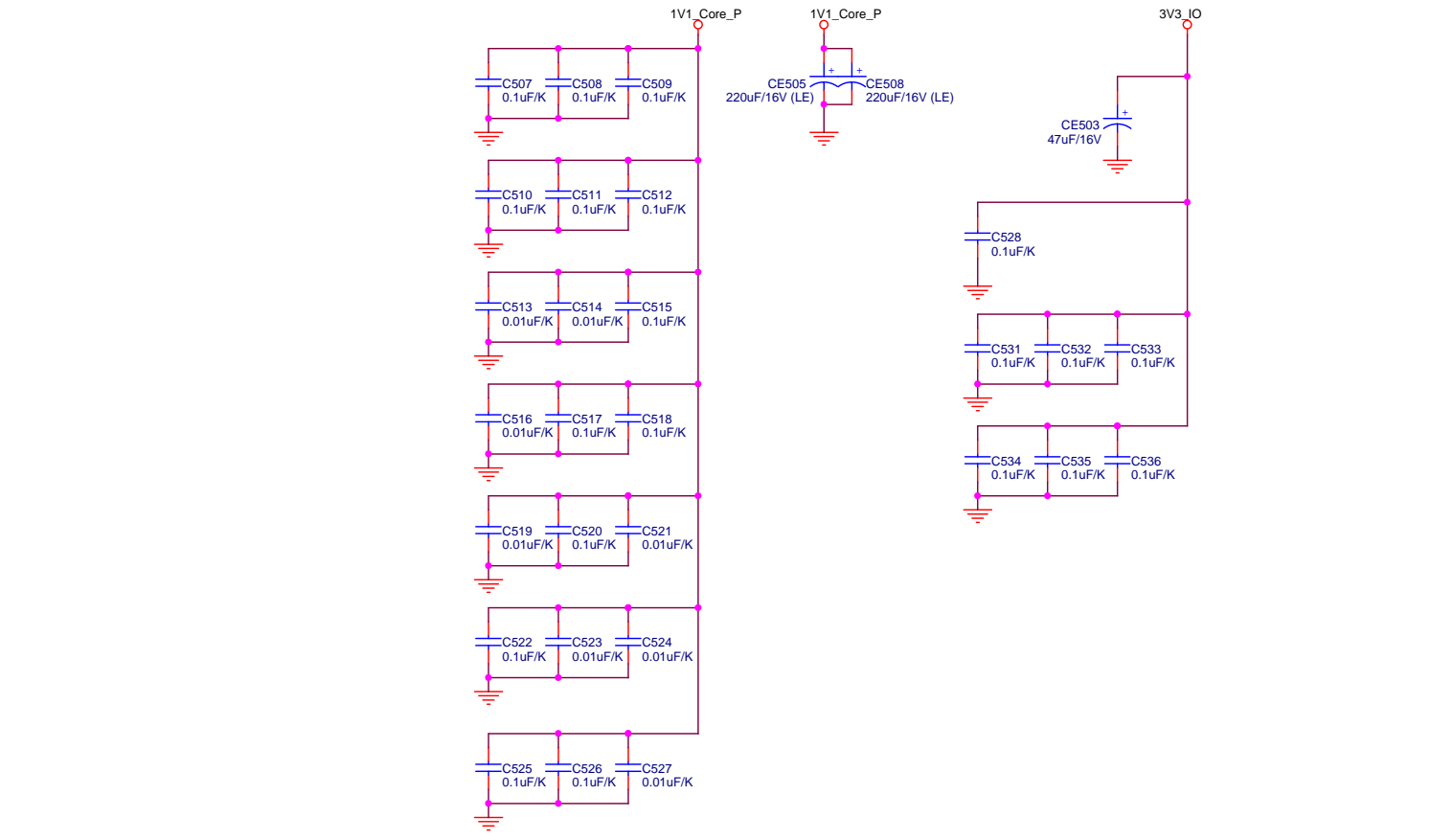
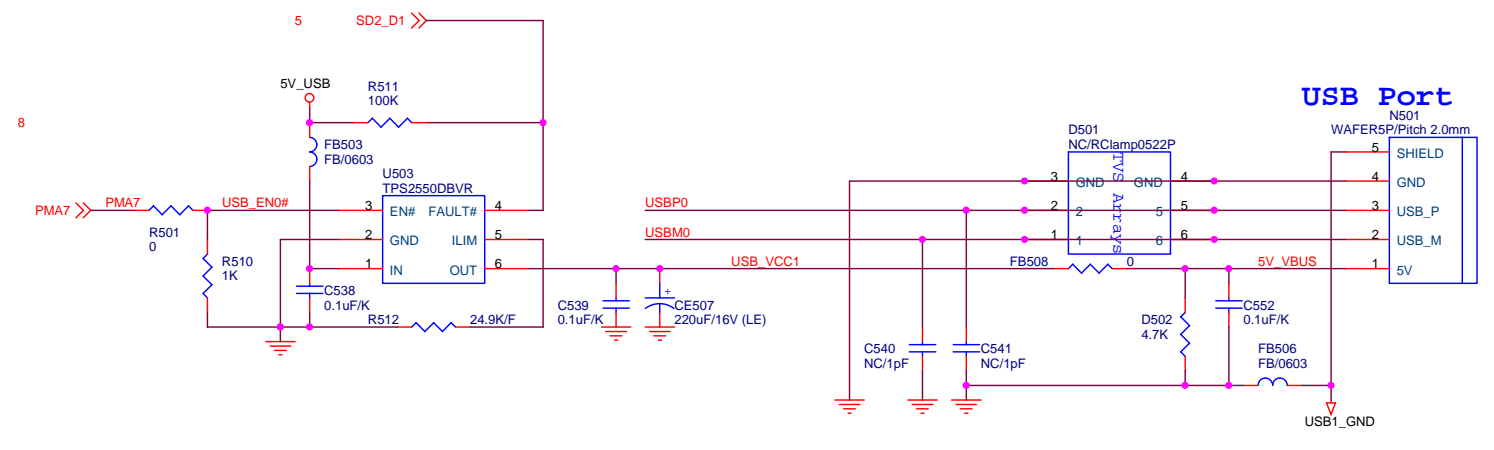
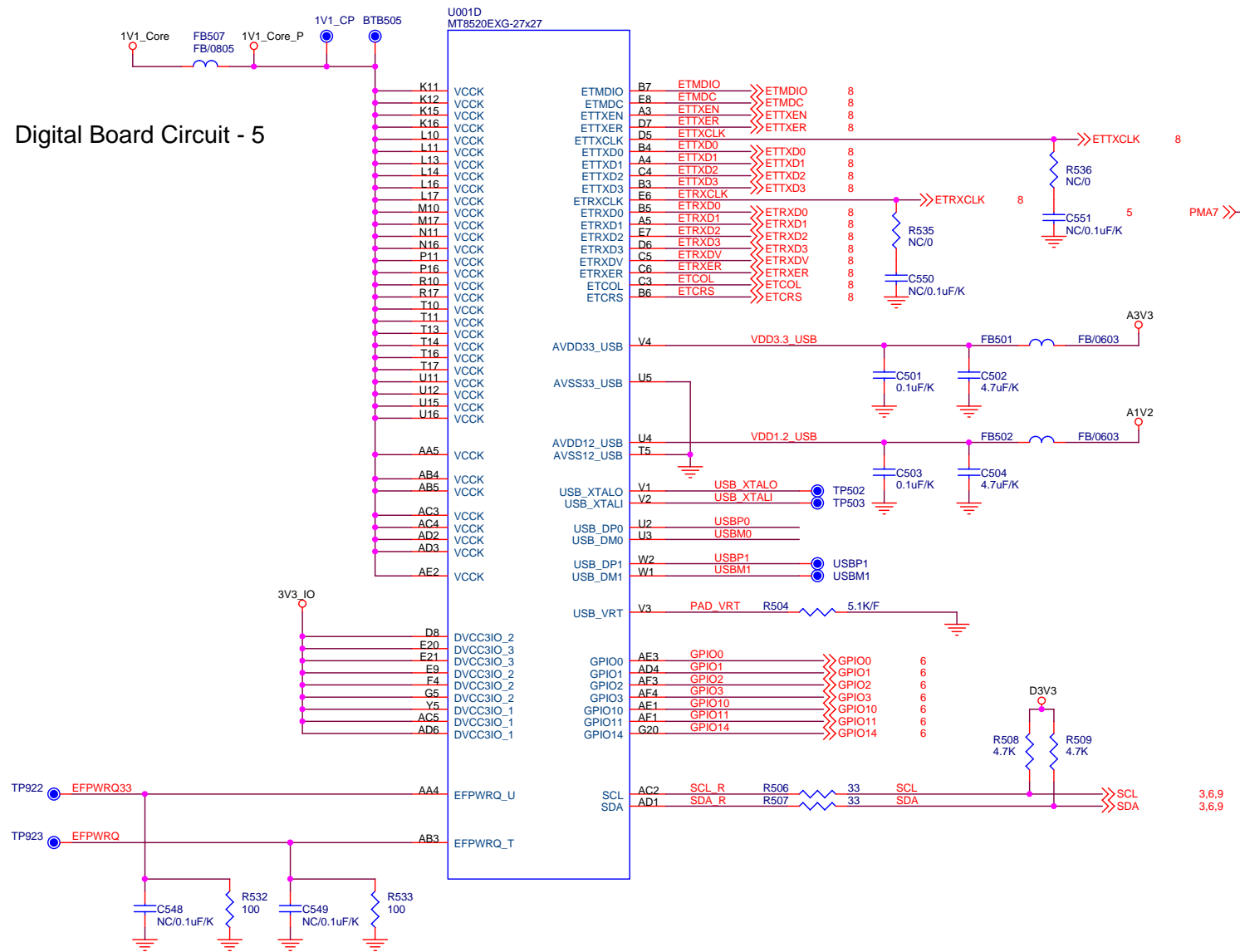


For HTS of Repeater IF use



TEL:886-3-578-7722		
Title 04 - MT8520 to HTS IF & iPod CP		
Size B	Document Number	Rev 01C
Date: Friday, March 27, 2009	Sheet 6 of 9	

Digital Board Circuit - 5

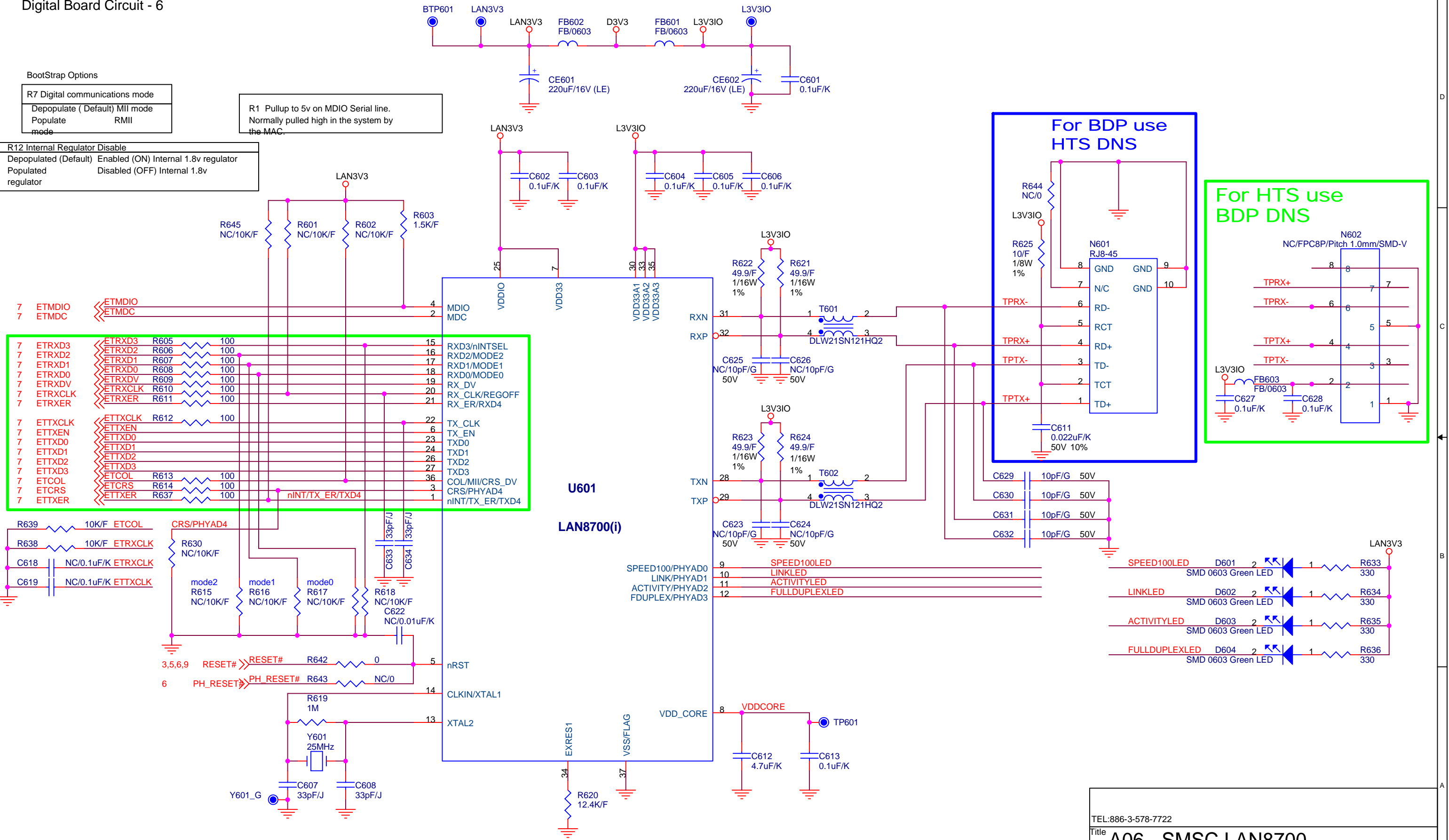


BootStrap Options

R7 Digital communications mode	
Depopulate (Default) MII mode	
Populate mode	RMMI

R1 Pullup to 5v on MDIO Serial line.
Normally pulled high in the system by the MAC.

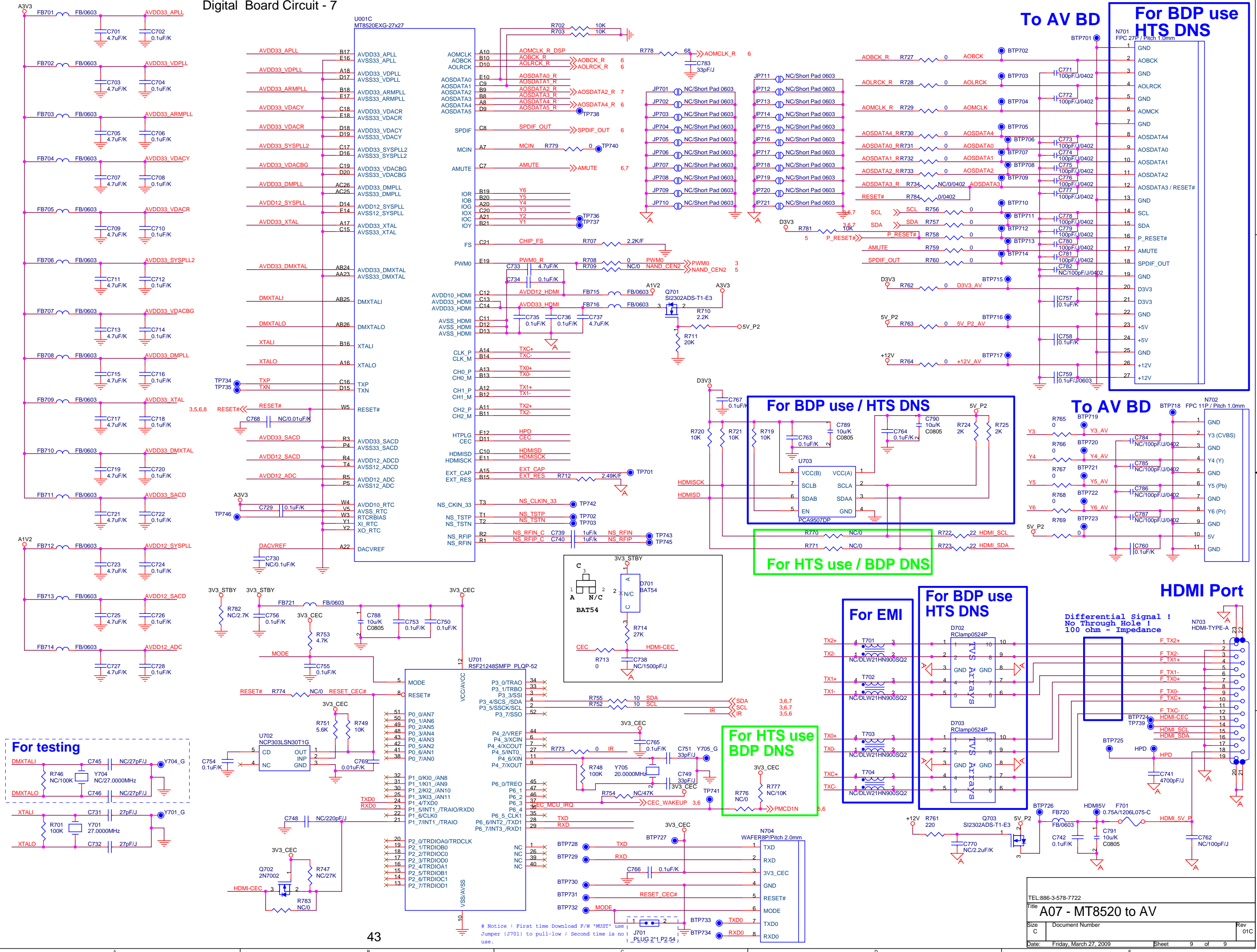
R12 Internal Regulator Disable
Depopulated (Default) Enabled (ON) Internal 1.8v regulator
Populated Disabled (OFF) Internal 1.8v regulator



7	ETRXD3	ETRDX3	R605	100	15	RXD3/nINTSEL
7	ETRXD2	ETRDX2	R606	100	16	RXD2/MODE2
7	ETRXD1	ETRDX1	R607	100	17	RXD1/MODE1
7	ETRXD0	ETRDX0	R608	100	18	RXD0/MODE0
7	ETRXDV	ETRDXDV	R609	100	19	RX_DV
7	ETRXCLK	ETRDXCLK	R610	100	20	RX_CLK/REGOFF
7	ETRXER	ETRDXER	R611	100	21	RX_ER/RXD4
7	ETTXCLK	ETTXD3	R612	100	22	TX_CLK
7	ETTXEN	ETTXD2			23	TX_EN
7	ETTXD0	ETTXD1			24	TXD0
7	ETTXD1	ETTXD2			26	TXD2
7	ETTXD2	ETTXD3			27	TXD3
7	ETCOL	ETCOL	R613	100	36	COL/MI/CRS_DV
7	ETCRS	ETCRS	R614	100	3	CRS/PHYAD4
7	ETTXER	ETTXER	R637	100	1	nINT/TX_ER/TXD4

TEL:886-3-578-7722	
Title A06 - SMSC LAN8700	
Size B	Document Number
Date: Friday, March 27, 2009	Rev 01C
Sheet 8	of 9

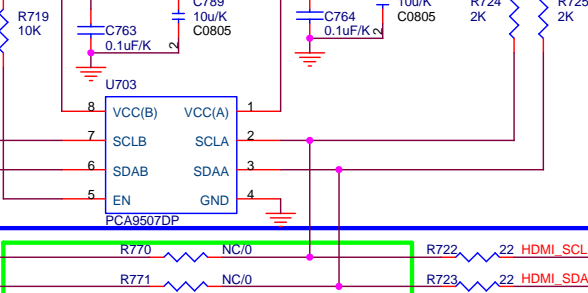
Digital Board Circuit - 7



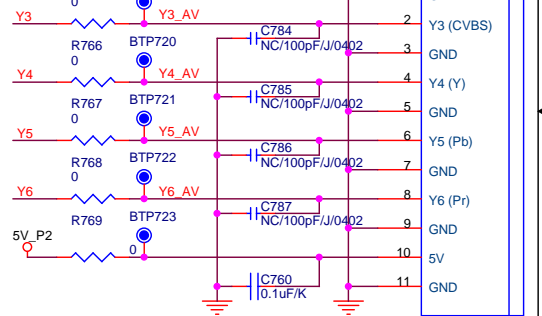
To AV BD
For BDP use HTS DNS



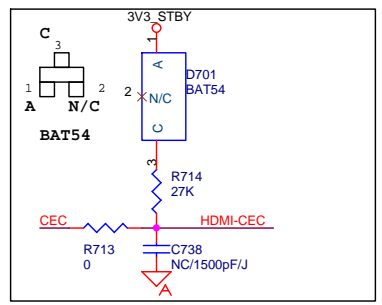
For BDP use / HTS DNS



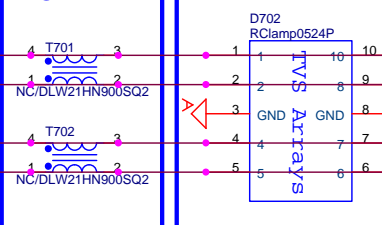
To AV BD



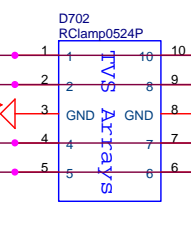
For HTS use / BDP DNS



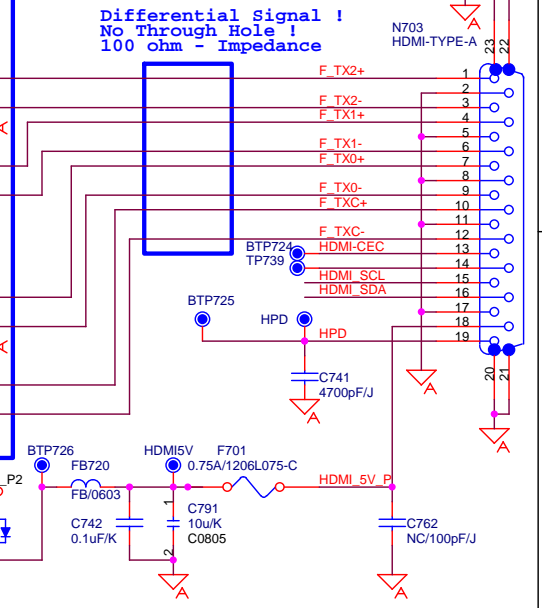
For EMI



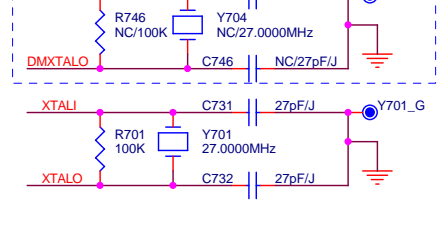
For BDP use HTS DNS



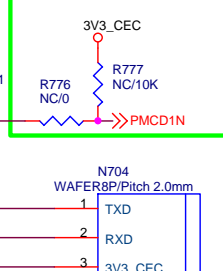
HDMI Port



For testing

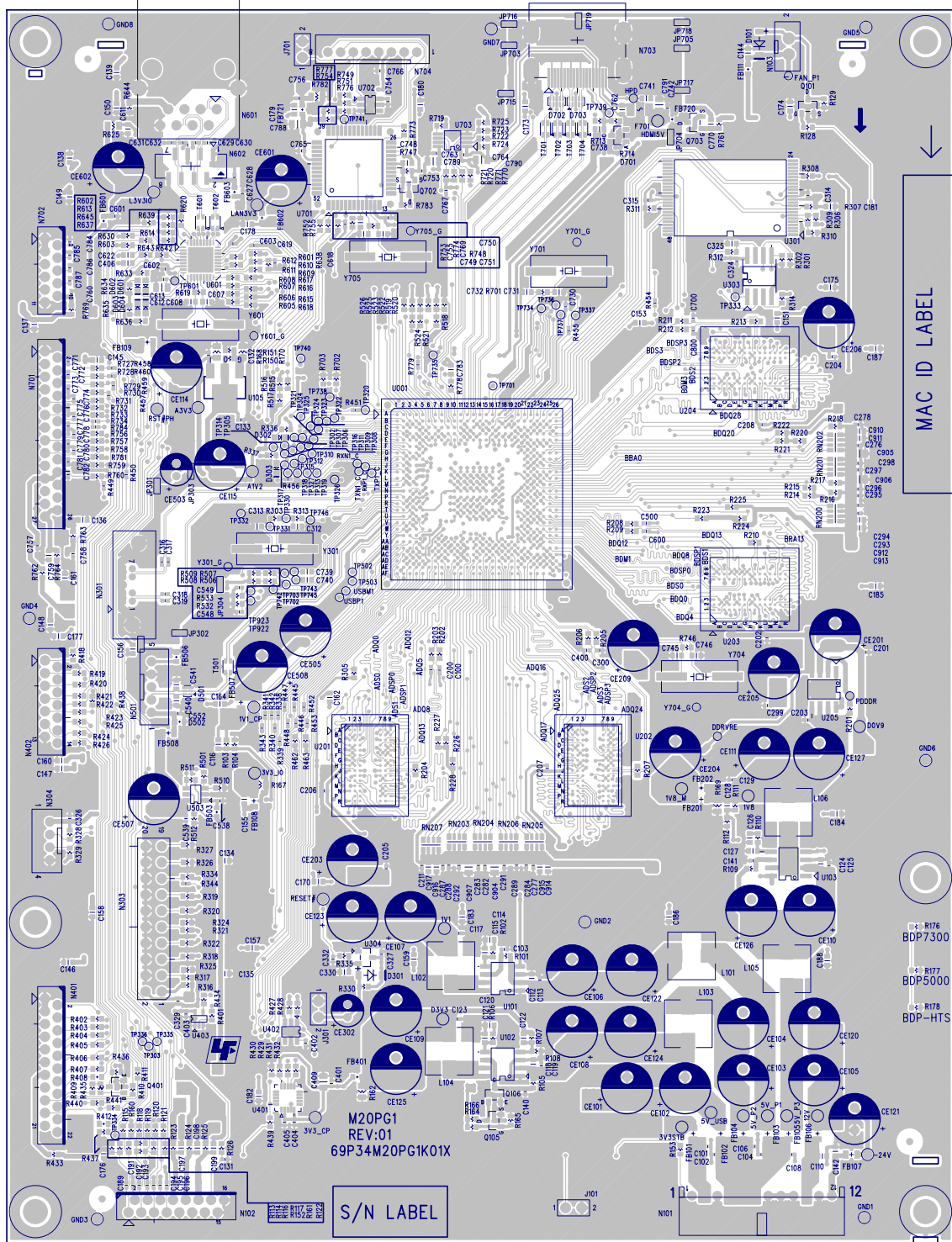


For HTS use BDP DNS



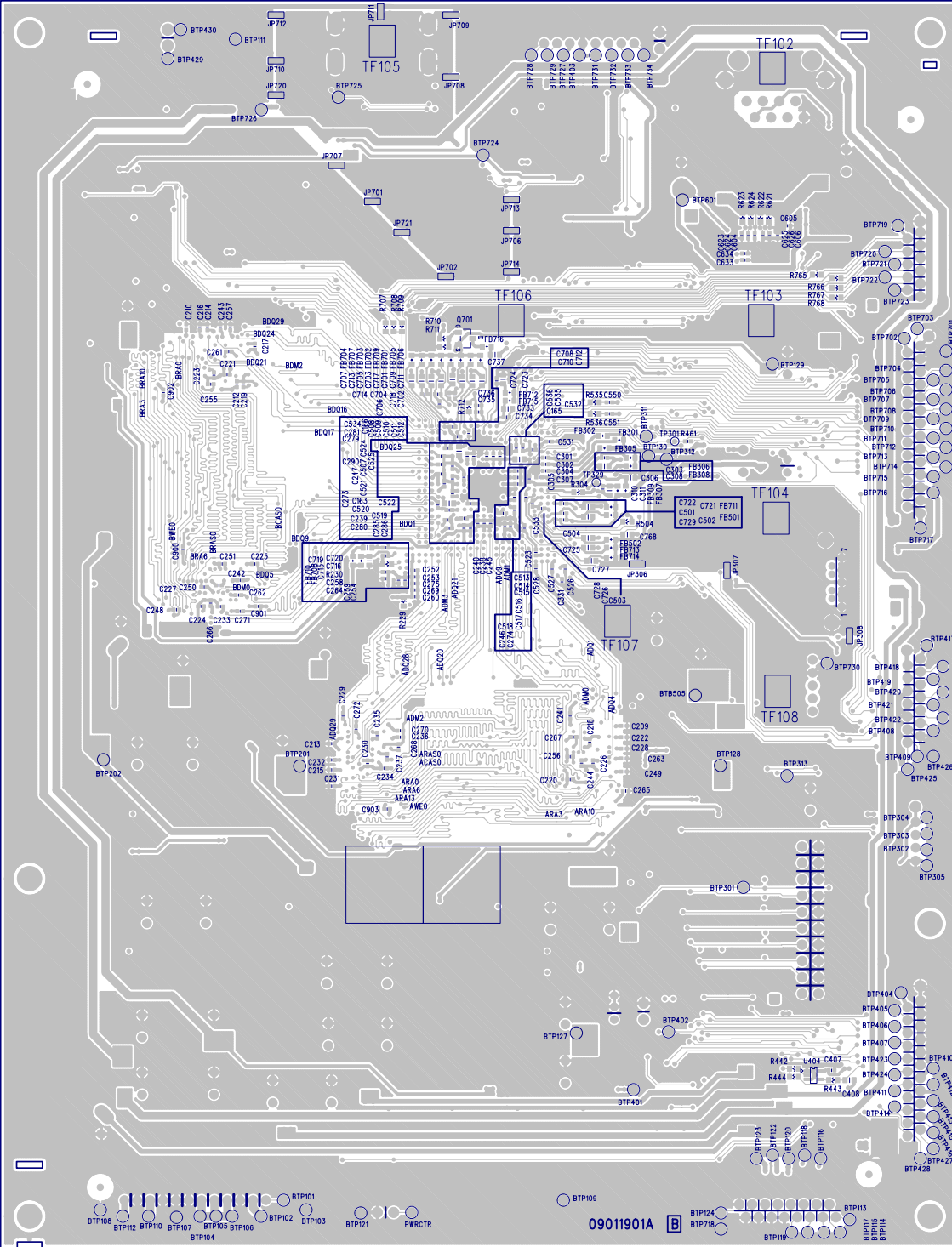
Notice: First time Download F/W "MUST" use Jumper (J701) to pull-low; Second time is no use.

Digital Board Layout - Top View



BOARD NAME: BDP-7300 MAIN Board	
FILM NAME: SilkScreen_Top Side	
FILE NAME: BDP7300-01A	SHEET: 1 OF 10
DRN: Winnie Lin	VERSION: 01A
	DATE: 2009/01/19

PCB LAYER	4 LAYER
PCB THICKNESS	1.6+/-0.15 mm
LAYER 1	TOP SIDE
LAYER 2	GROUND PLANE
LAYER 3	VCC PLANE
LAYER 4	BOTTOM SIDE
CLASS	UL 94-V0
HOLE POSITION TOLERANCE	+/-0.08 mm
IG.Connector(0.4mm) Pad Size	0.23+/-0.02 mm
IG.Connector(0.5mm) Pad Size	0.3+0.02/-0.04mm



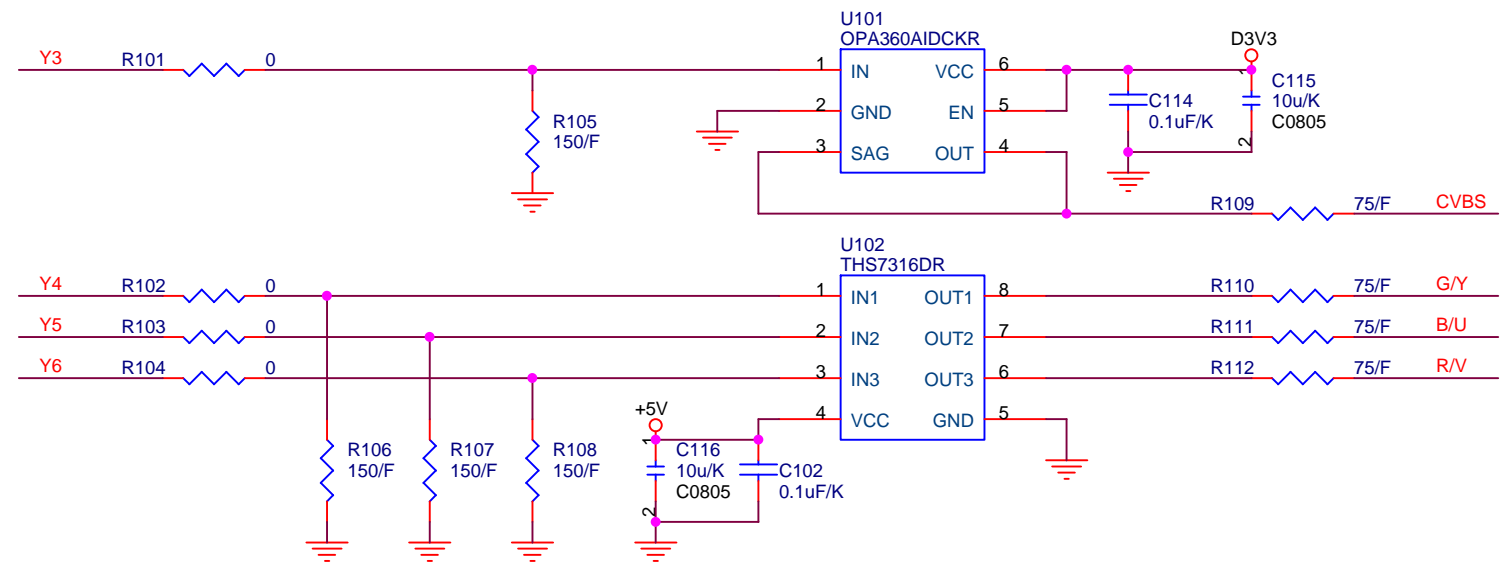
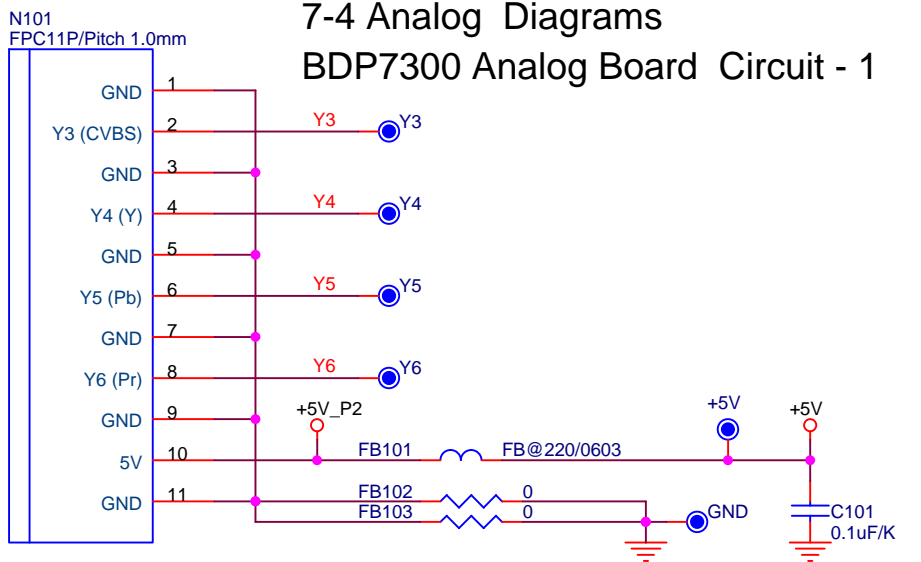
Digital Board Layout - Bottom View

PCB LAYER	4 LAYER
PCB THICKNESS	1.6+-0.15 mm
LAYER 1	TOP SIDE
LAYER 2	GROUND PLANE
LAYER 3	VCC PLANE
LAYER 4	BOTTOM SIDE
CLASS	UL 94-V0
HOLE POSITION TOLERANCE	+/-0.08 mm
IC Connector(0.5mm) Pad size	0.3+-0.03 mm
IC Connector(0.25mm) Pad size	0.3+-0.03-0.04mm

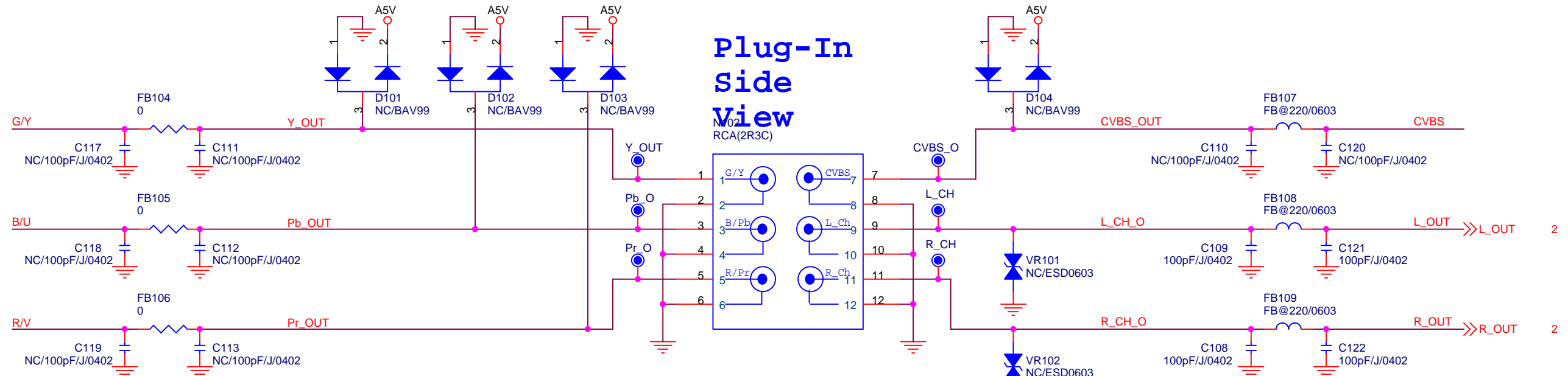
DRN: Winnie Liu	VERSION: 01A	DATE: 2008/01/18
FILE NAME: BDP7300-01A	SHEET: 8 OF 10	
FILM NAME: SilkScreenBottom Side		
BOARD NAME: BDP-7300 MAIN Board		

7-4 Analog Diagrams

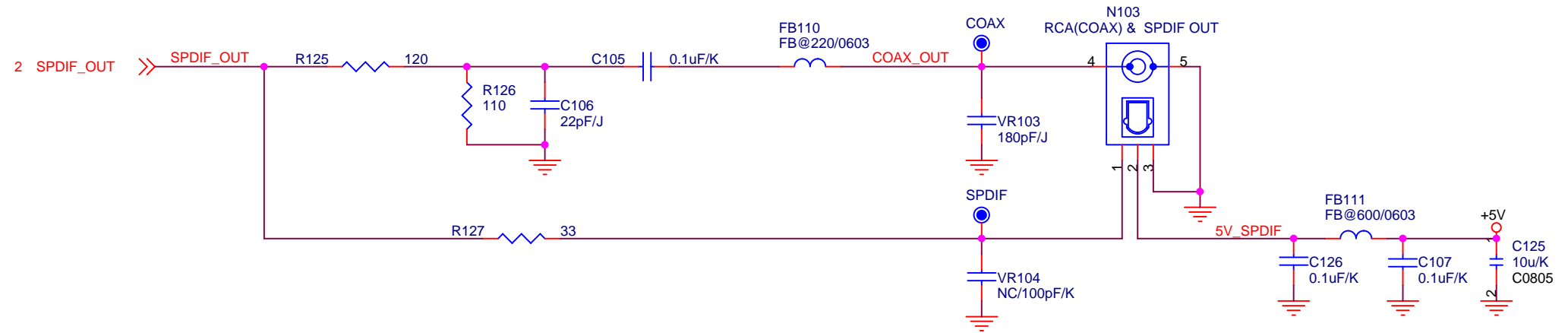
BDP7300 Analog Board Circuit - 1



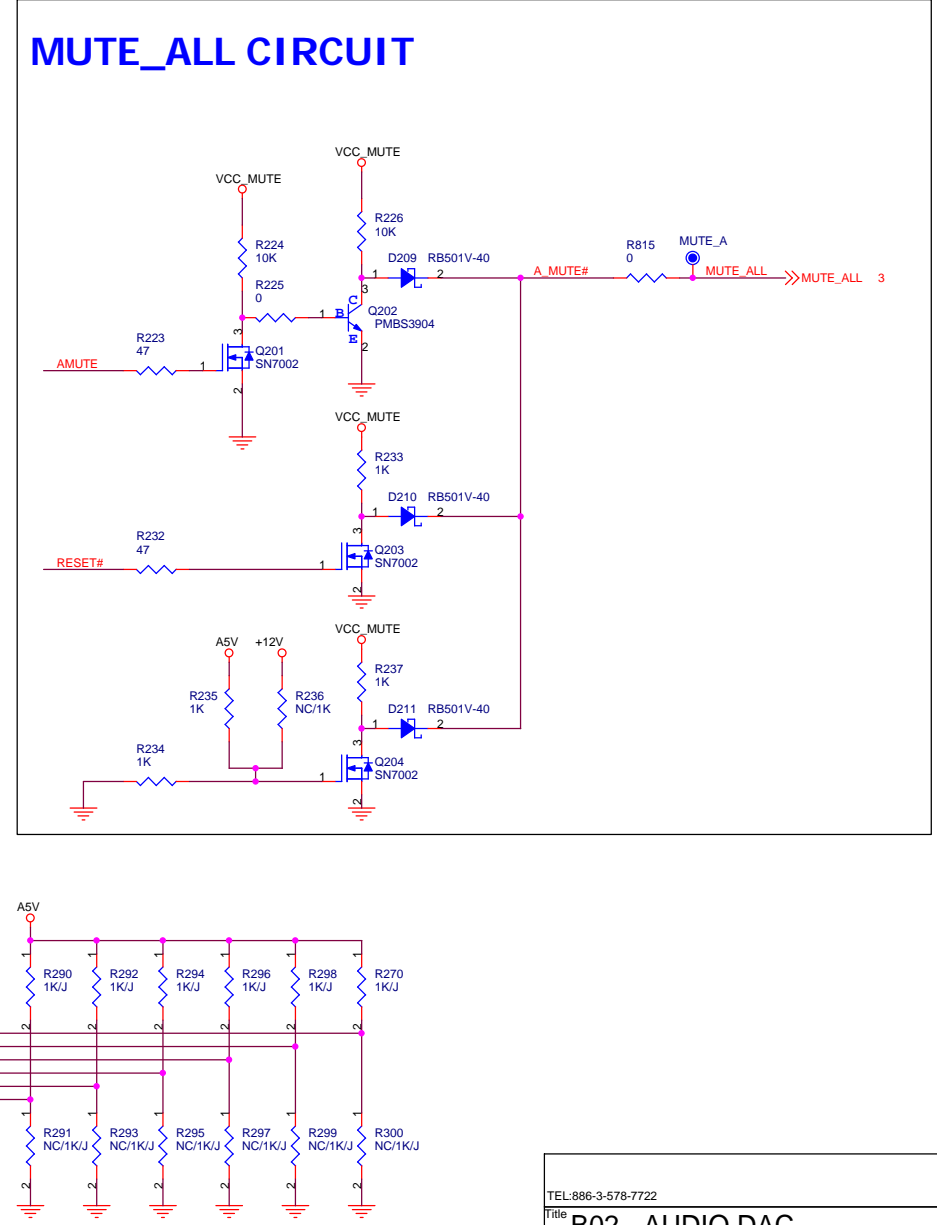
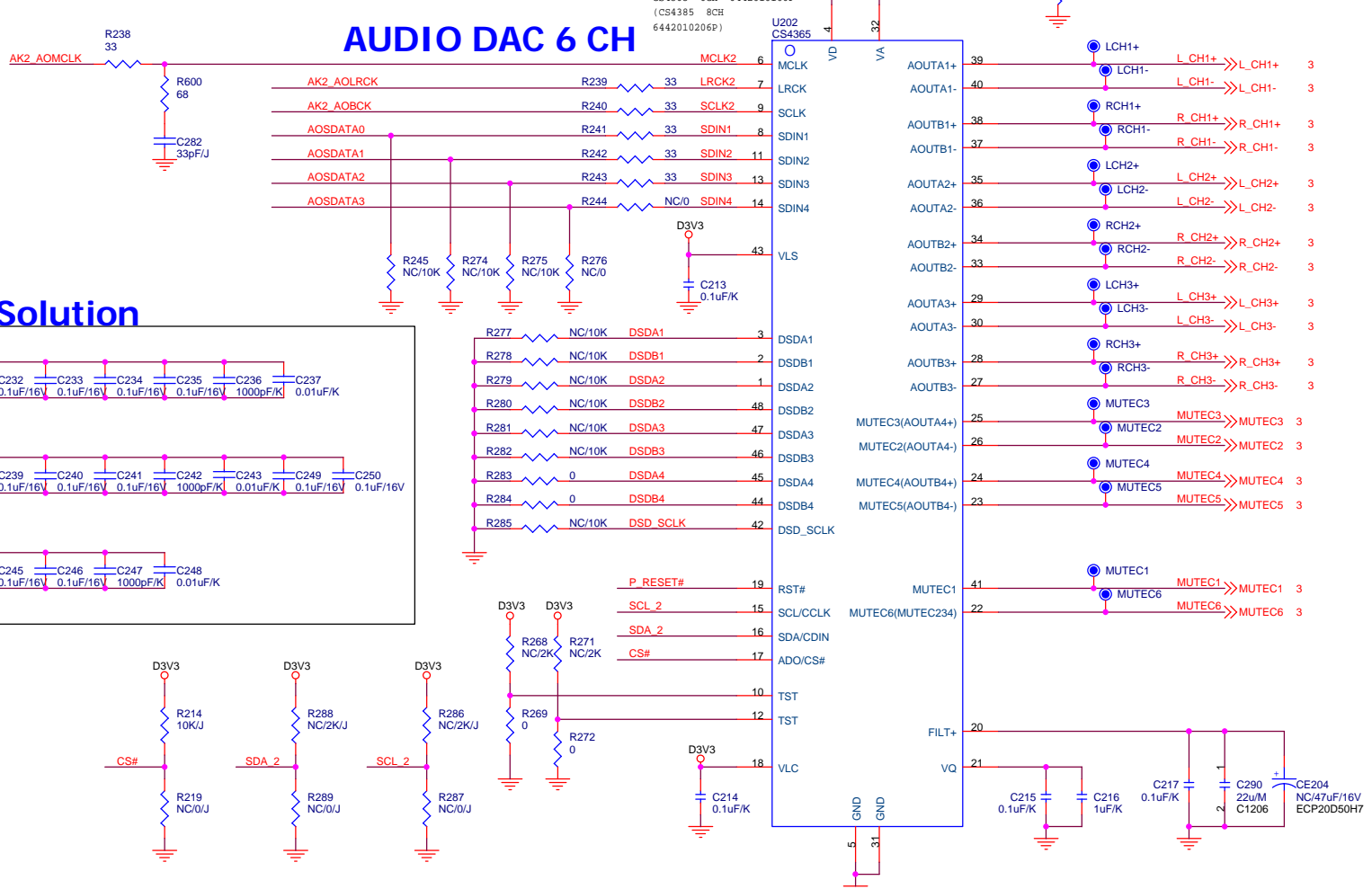
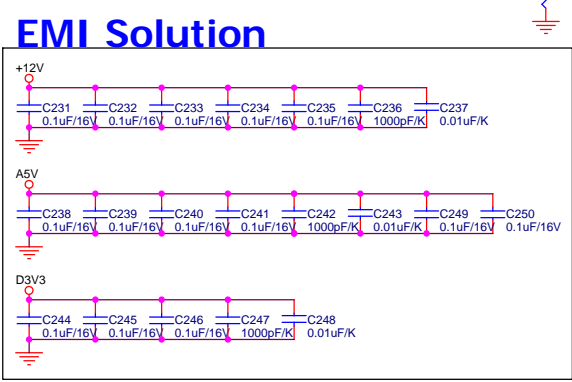
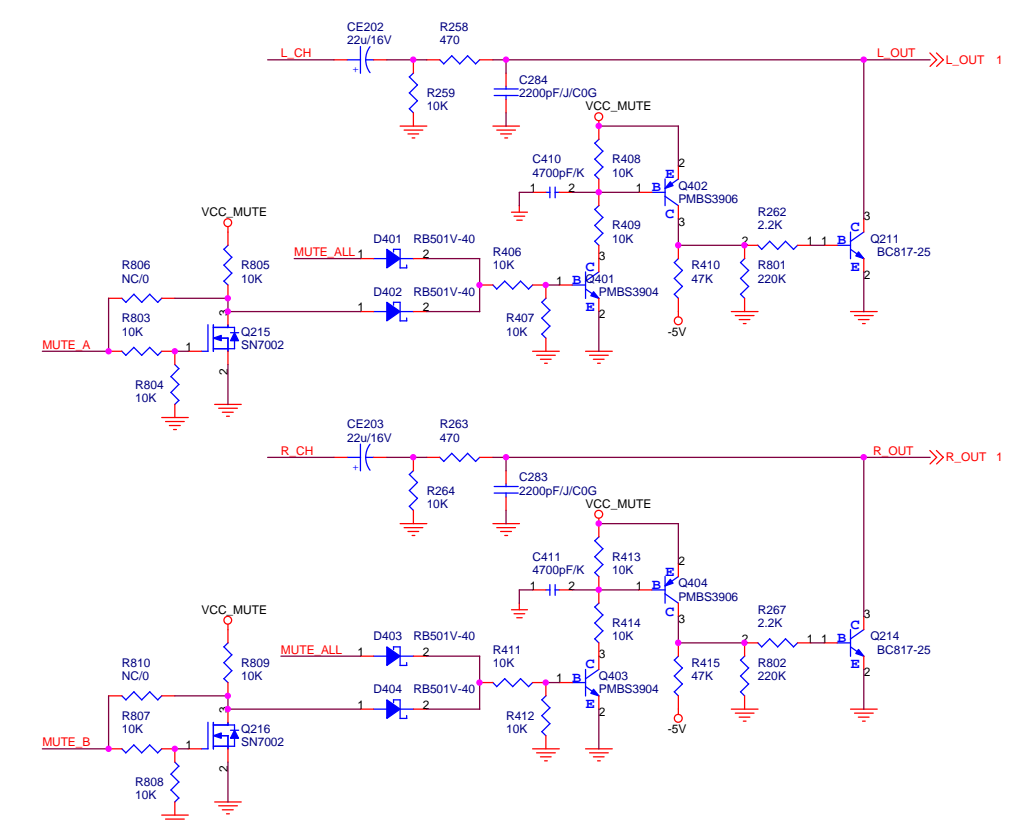
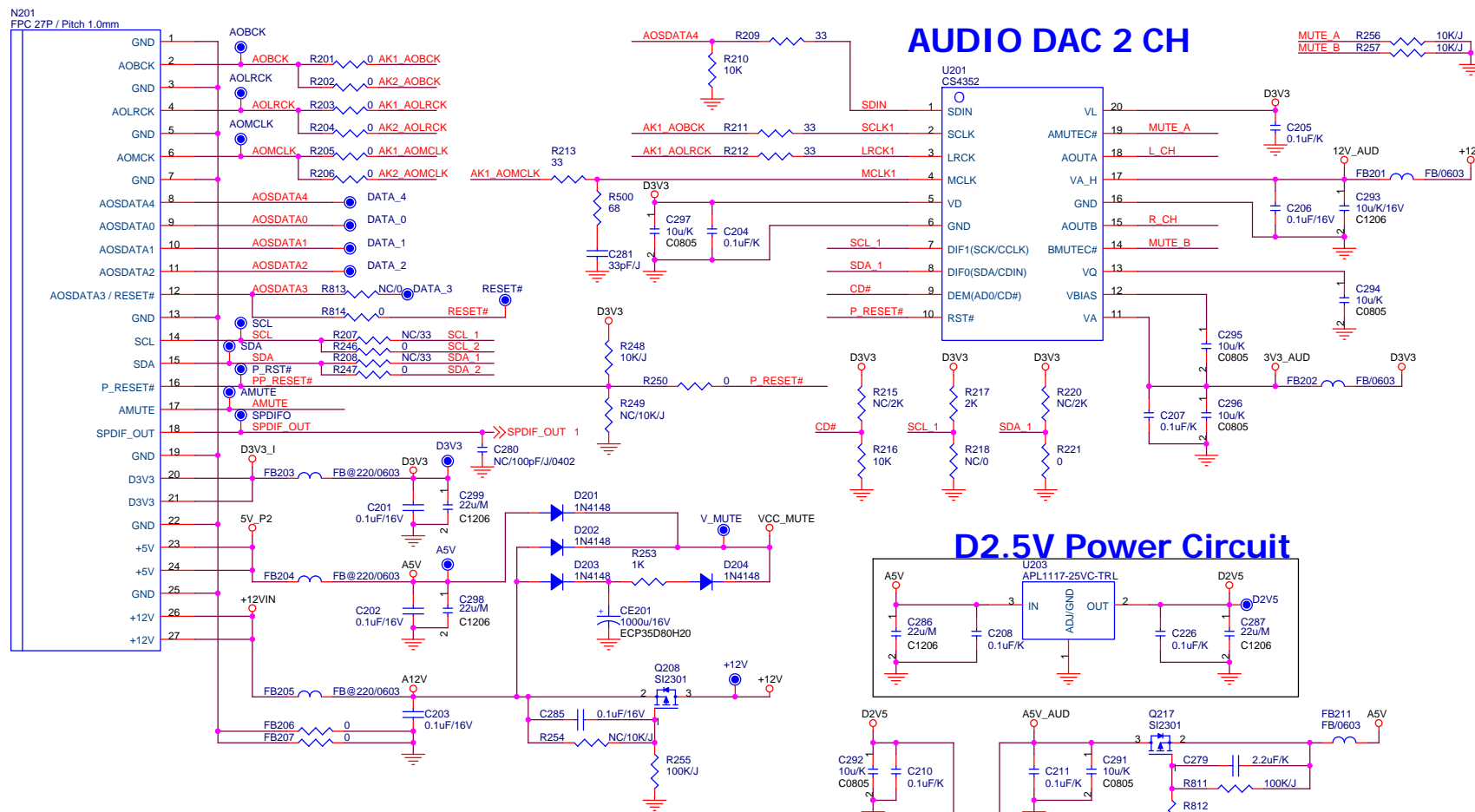
Plug-In Side View



Plug-In Side View



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L_CH1

BDP7300 Analog Board Circuit - 3

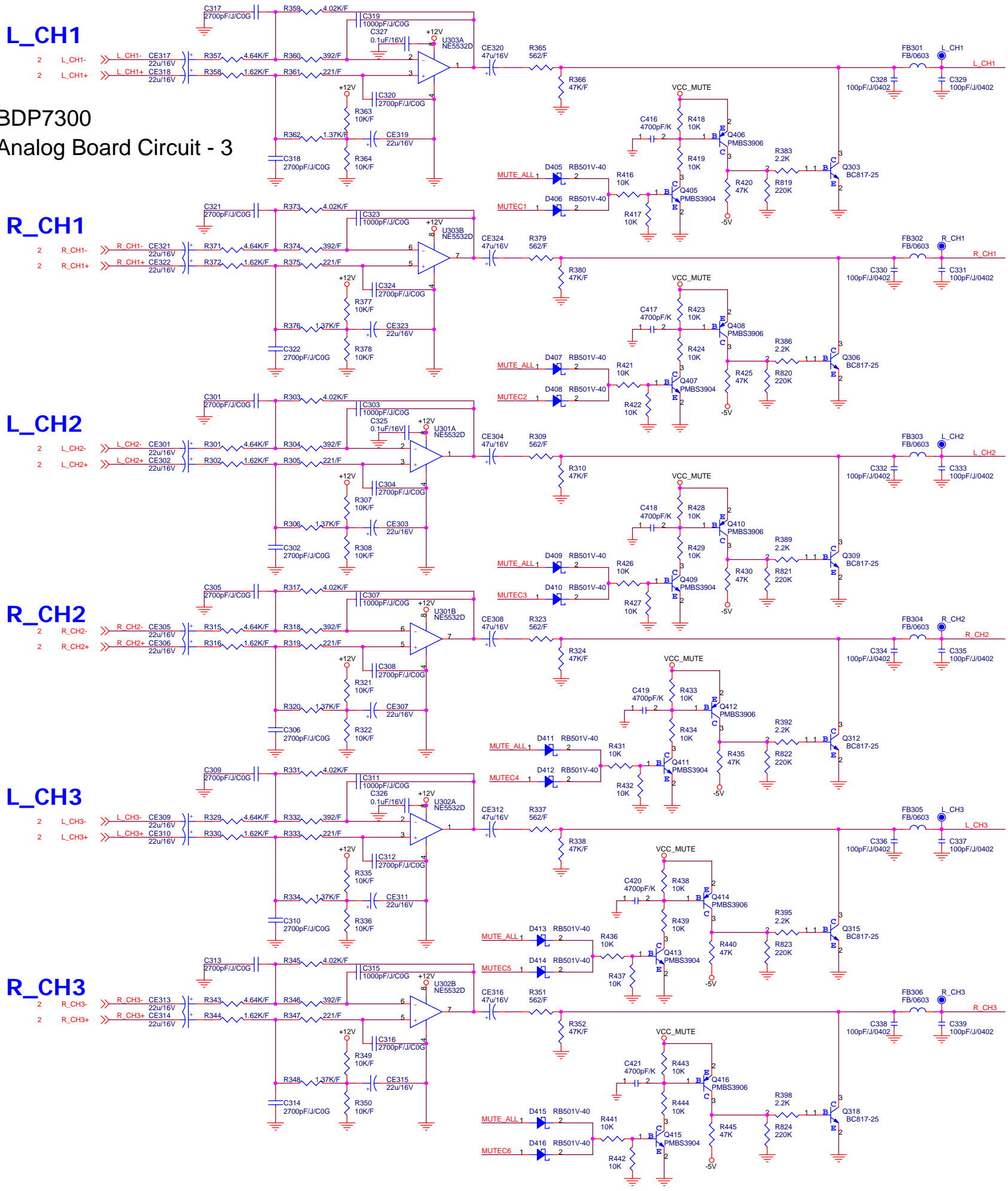
R_CH1

L_CH2

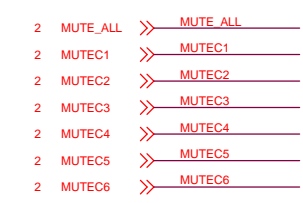
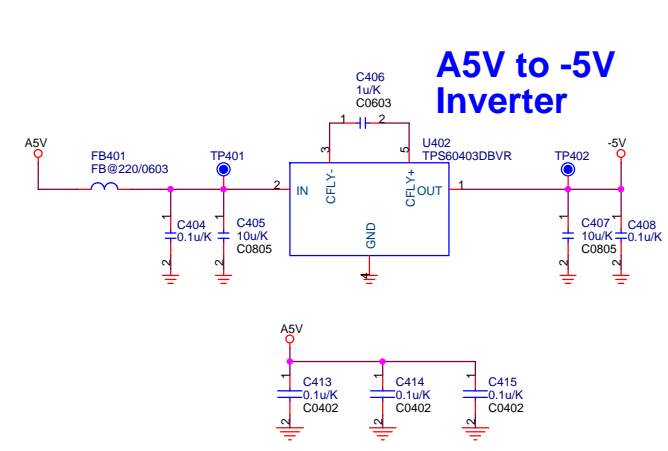
R_CH2

L_CH3

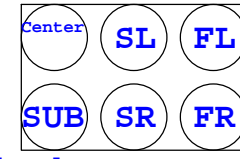
R_CH3



A5V to -5V Inverter

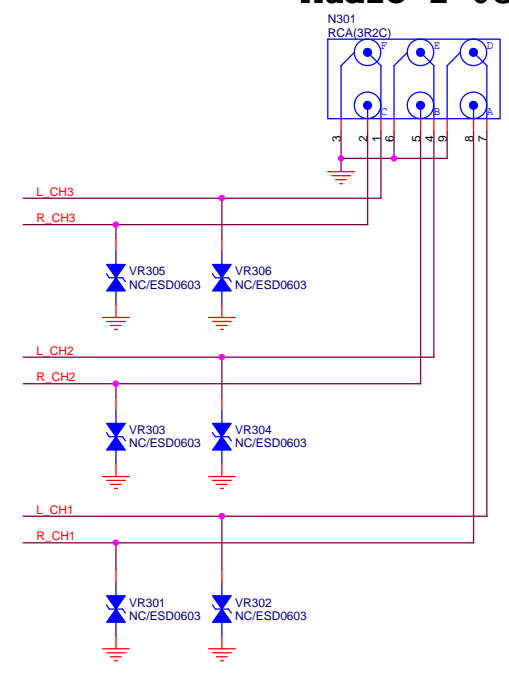


Blue Color White Color

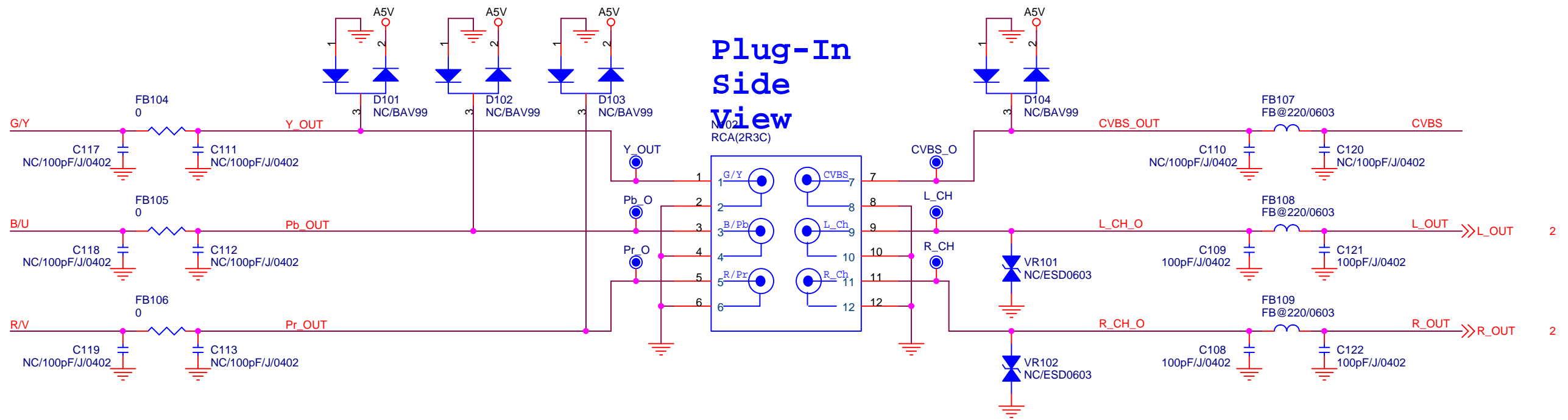
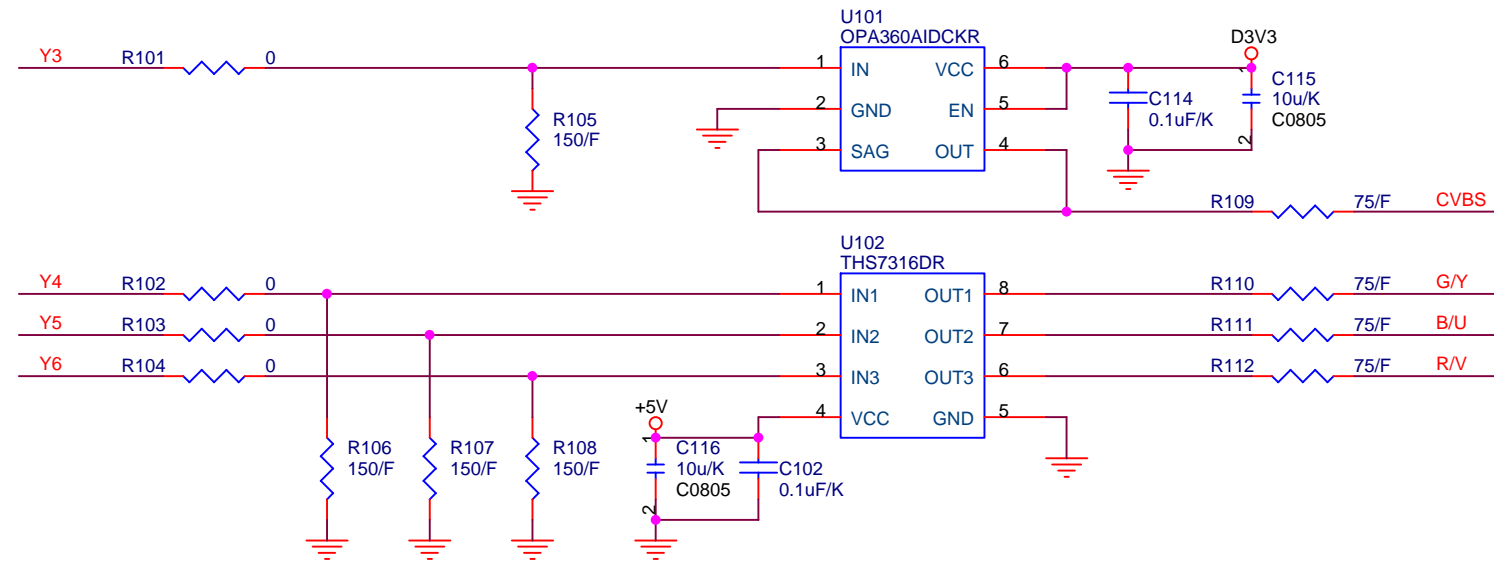
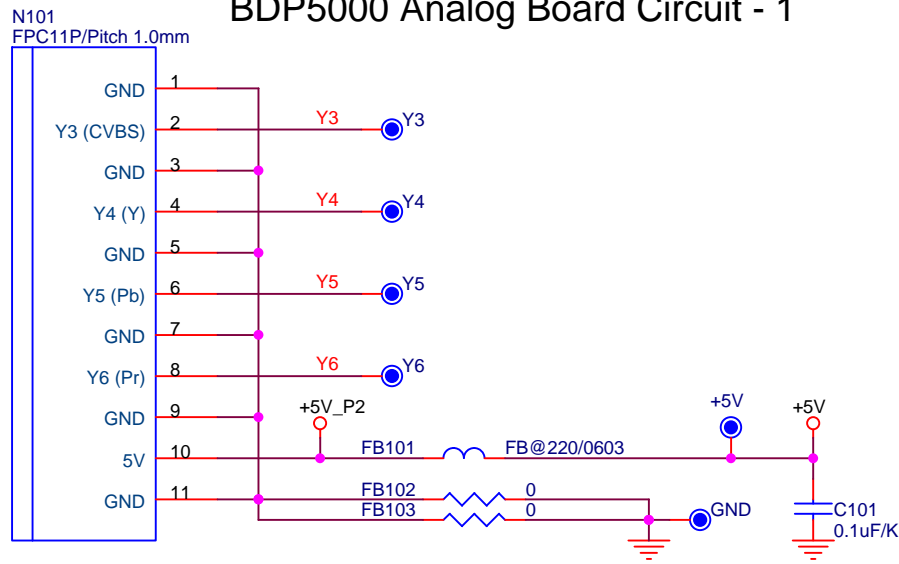


Black Color Red Color

Audio 1-6CH

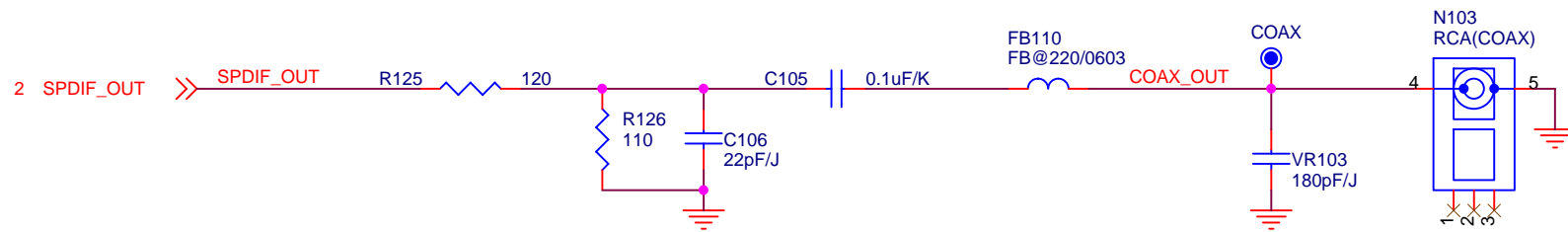


BDP5000 Analog Board Circuit - 1



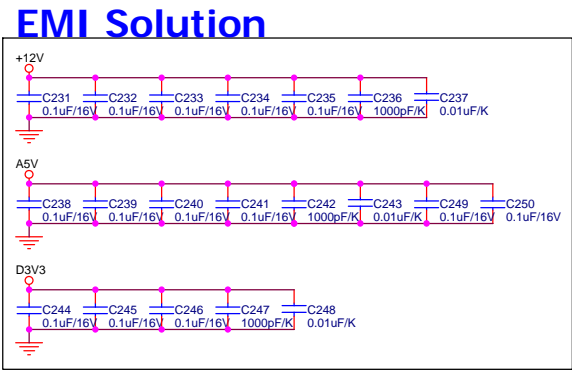
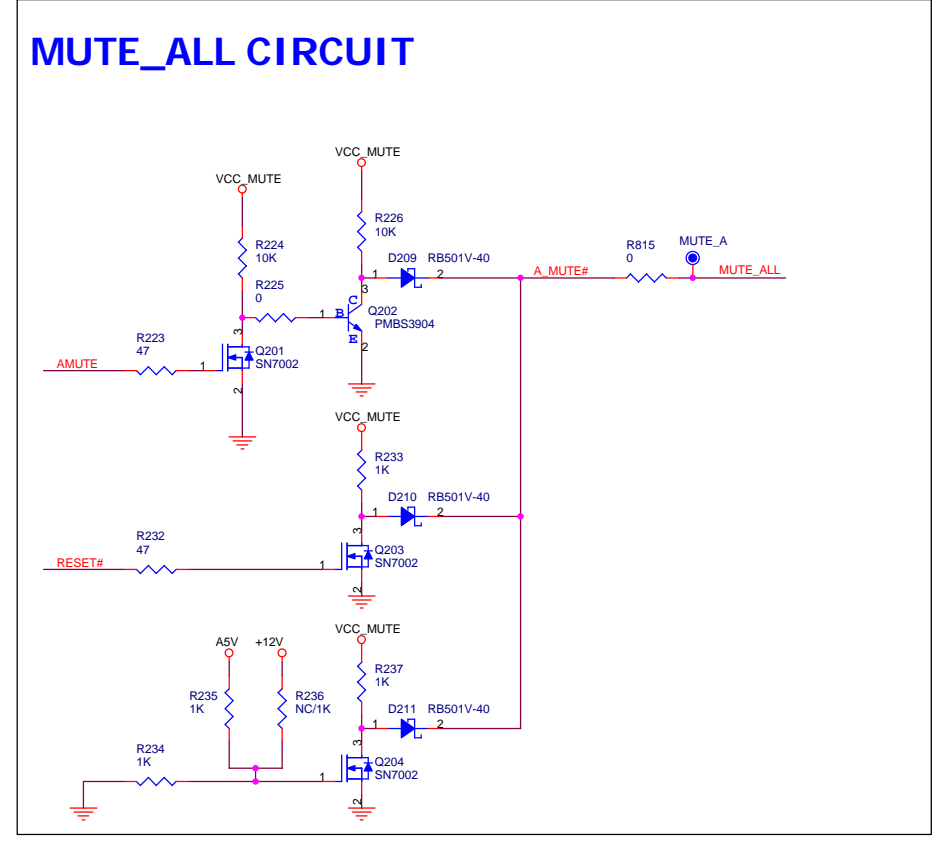
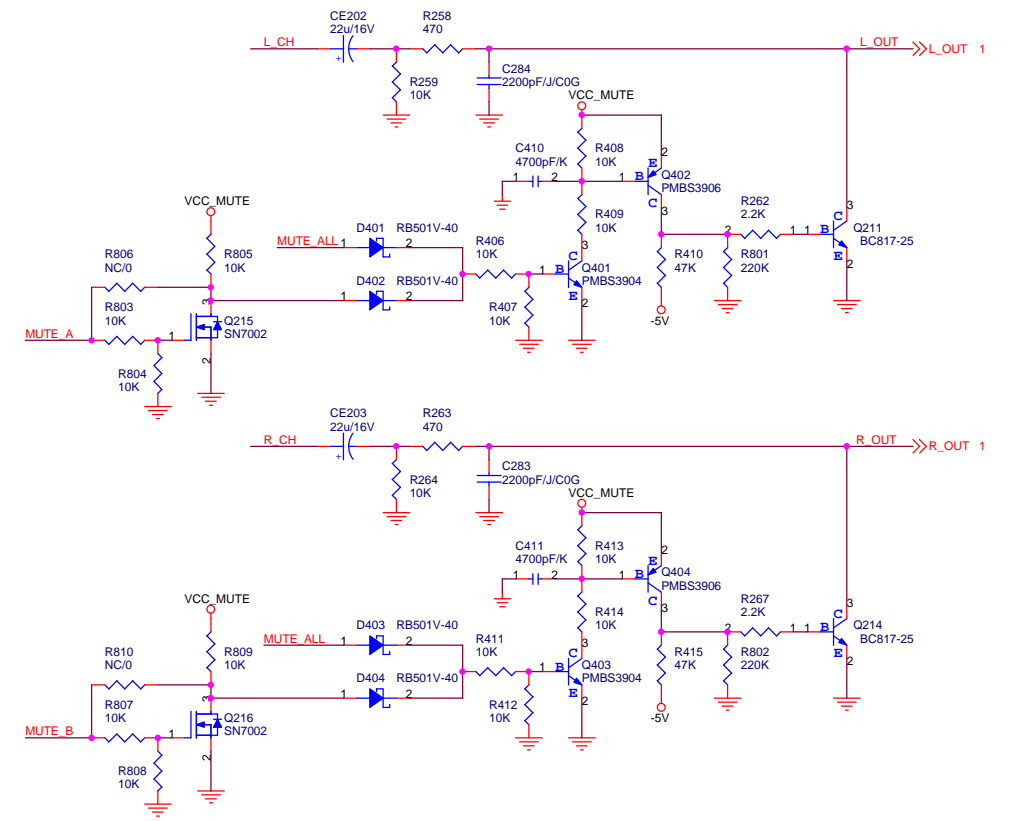
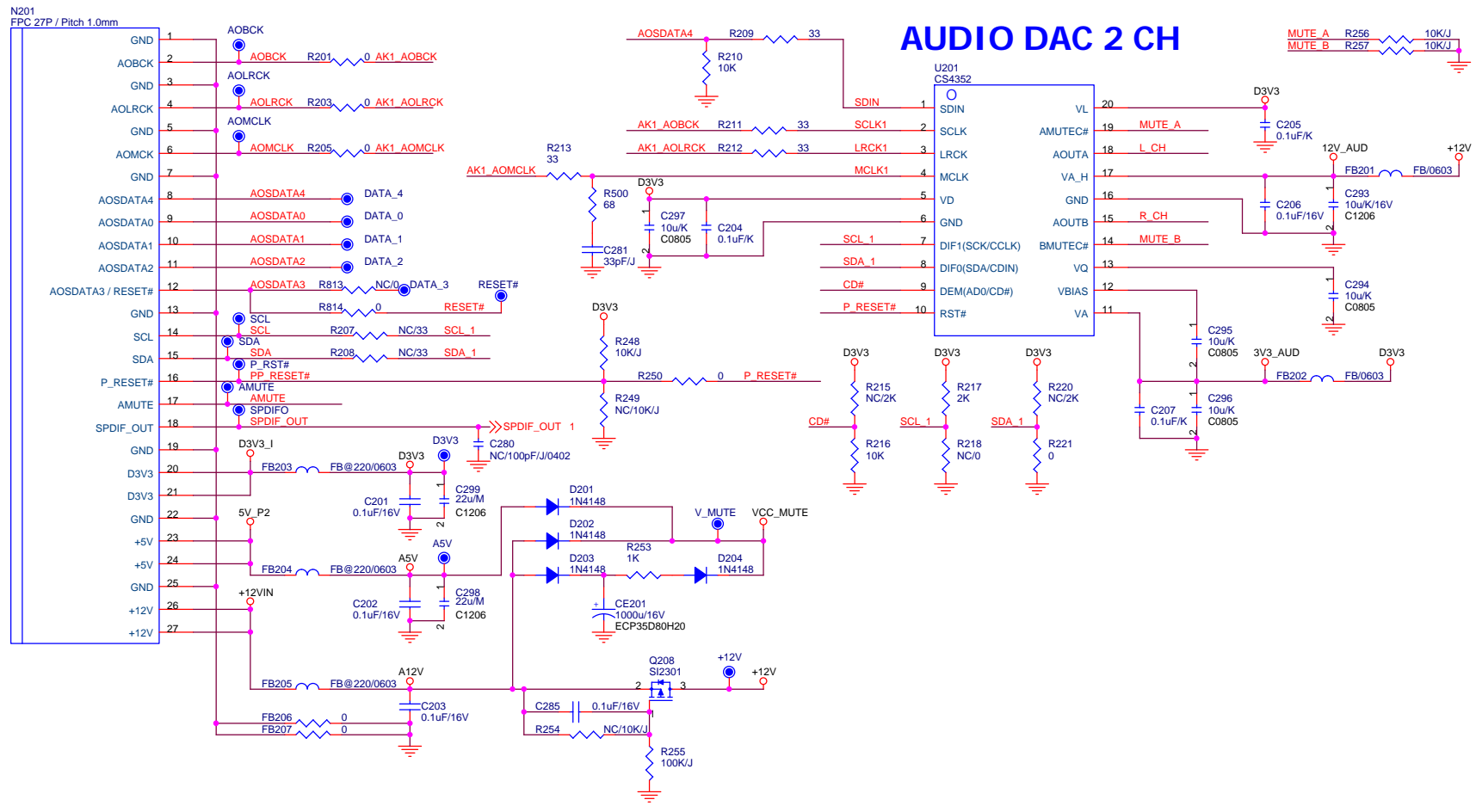
Plug-In Side View

Plug-In Side View

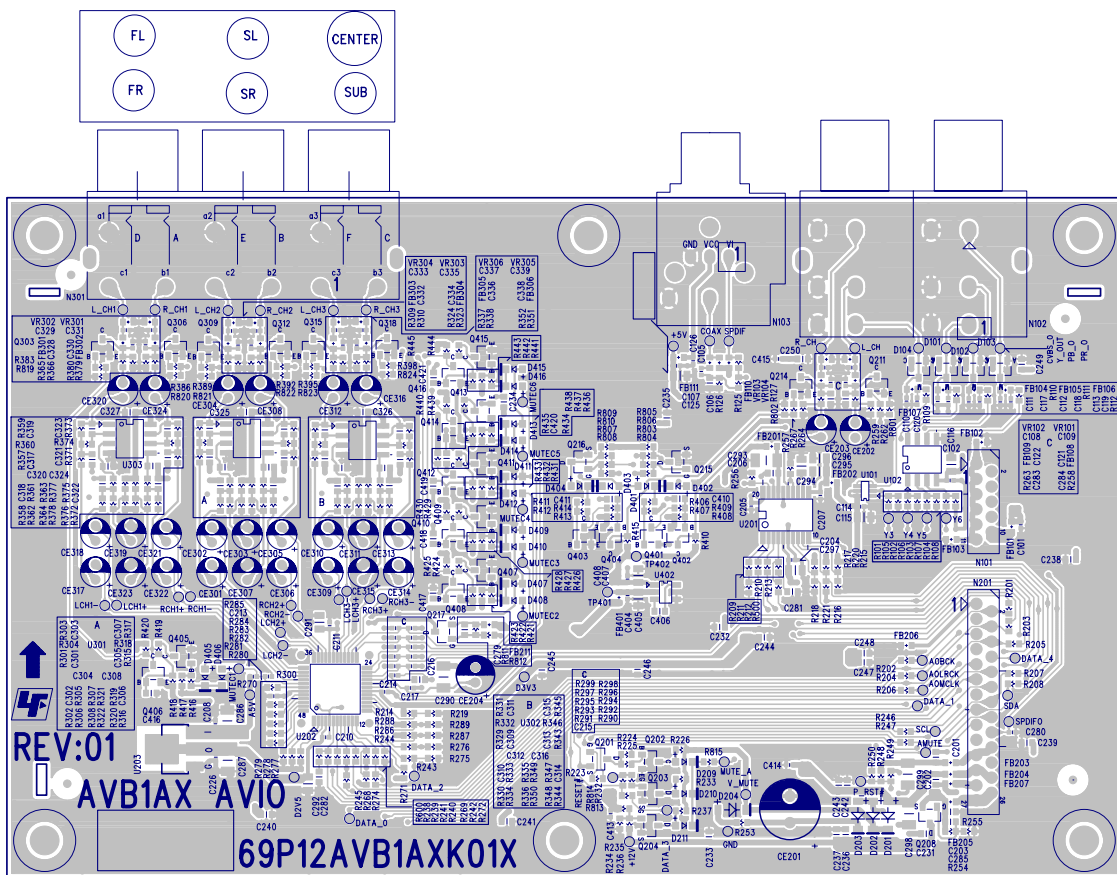


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BDP5000 Analog Board Circuit - 2



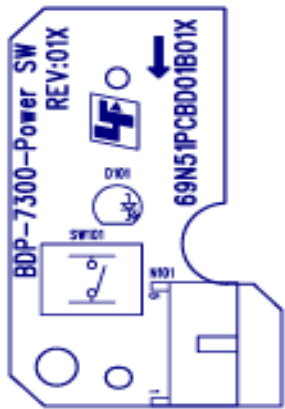
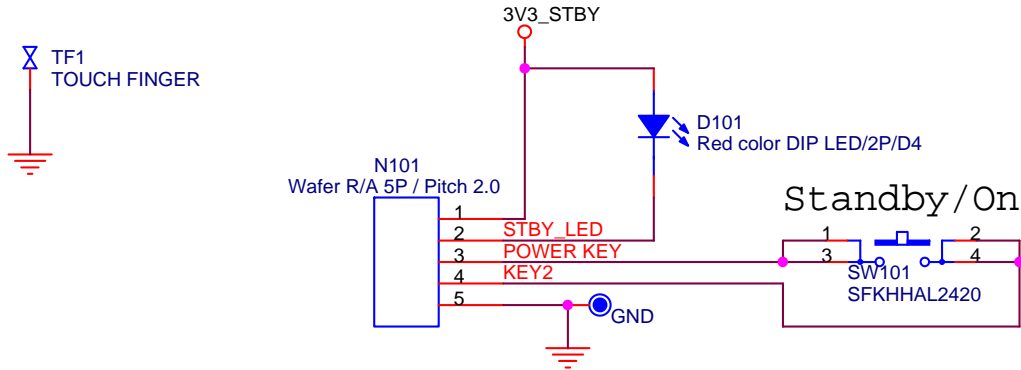
Analog Board Layout



BOARD NAME: BDP-7300 AVIO		
FILM NAME: Silk screen, Top Side		
FILE NAME: BDP-7300 AVIO_01	SHEET: 1 OF 8	
DRN: Nicole Chen	VERSION: 01	DATE: 2009/01/19

PCB LAYER	2 LAYER
PCB THICKNESS	1.2+/-0.13 mm
LAYER 1	TOP SIDE
LAYER 2	BOTTOM SIDE
CLASS	UL 94-V0
HOLE POSITION TOLERANCE	+/-0.08 mm
IC,Connector(0.4mm) Pad Size	0.23+/-0.02 mm
IC,Connector(0.5mm) Pad Size	0.3+0.02/-0.04mm

7-5 Standby Board Circuit & Layout

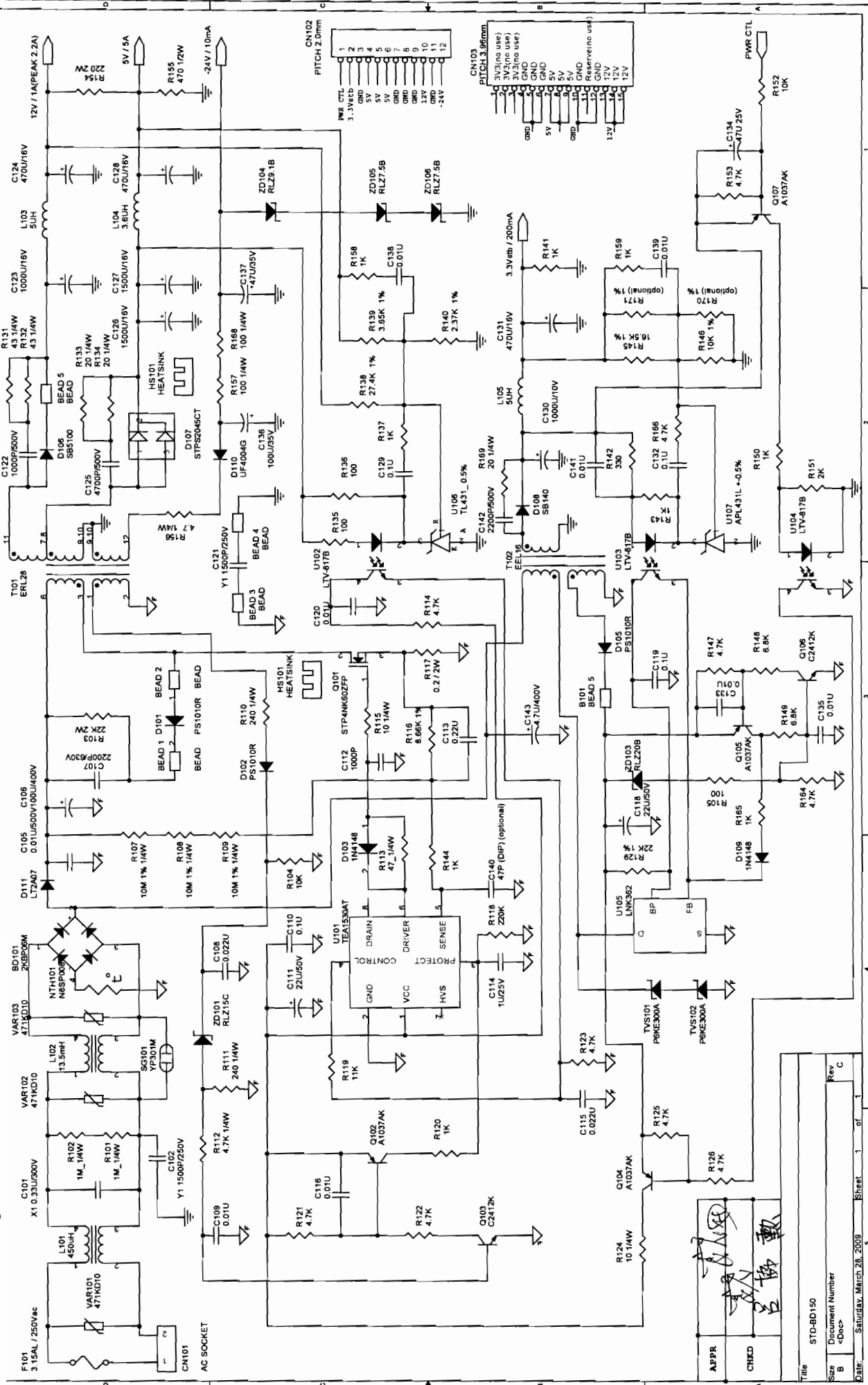


BOARD NAME: BDP-7300-Power switch		
LAYER NAME: Silk screen, Top Side		
FILE NAME:BDP-7300-Power switch_01A	SHEET: 1 OF 8	
DRN: Sandy Hsu	VERSION: 01A	DATE: 2009/02/12

TEL:886-3-578-7722		
Title D01 : Power SW BD		
Size A	Document Number	Rev 01A
Date: Friday, March 27, 2009	Sheet 3 of 3	

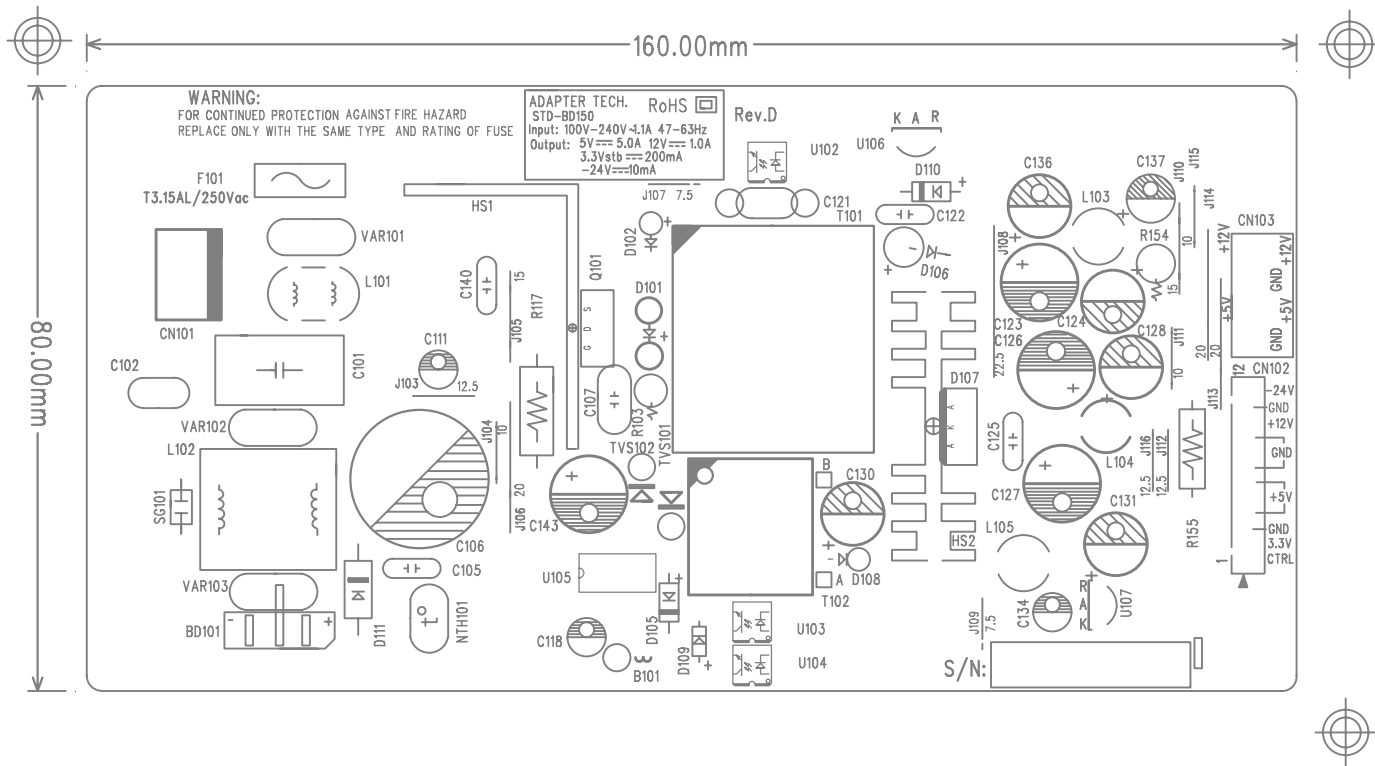


7-6 PSU Board Diagram- PSU Board Circuit

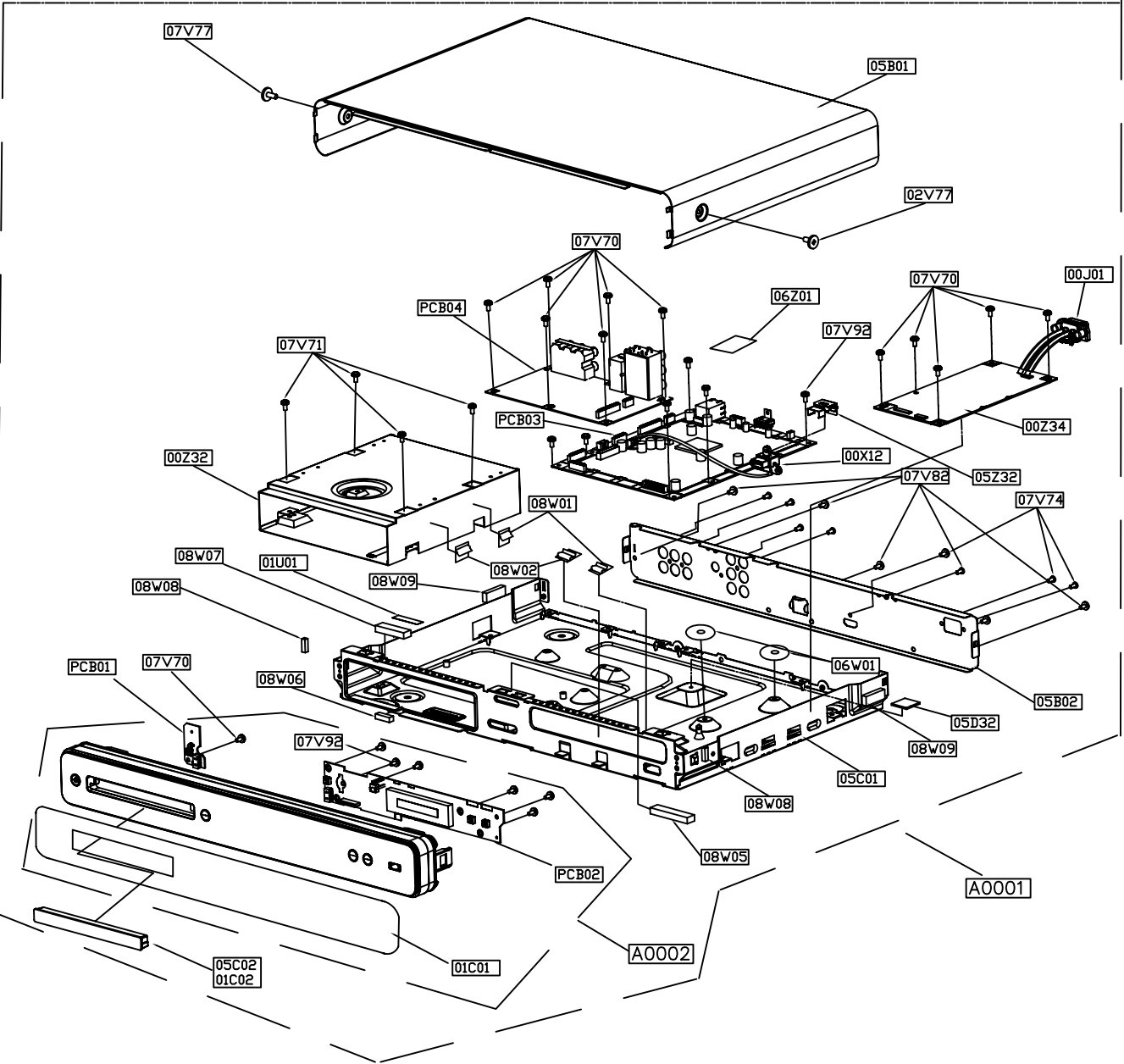


APPR	CHKD	Rev	C
Title		STD-BD150	
Size	Document Number		
B	<Doc>		
Date	Saturday, March 28, 2009	Sheet	1 of 5

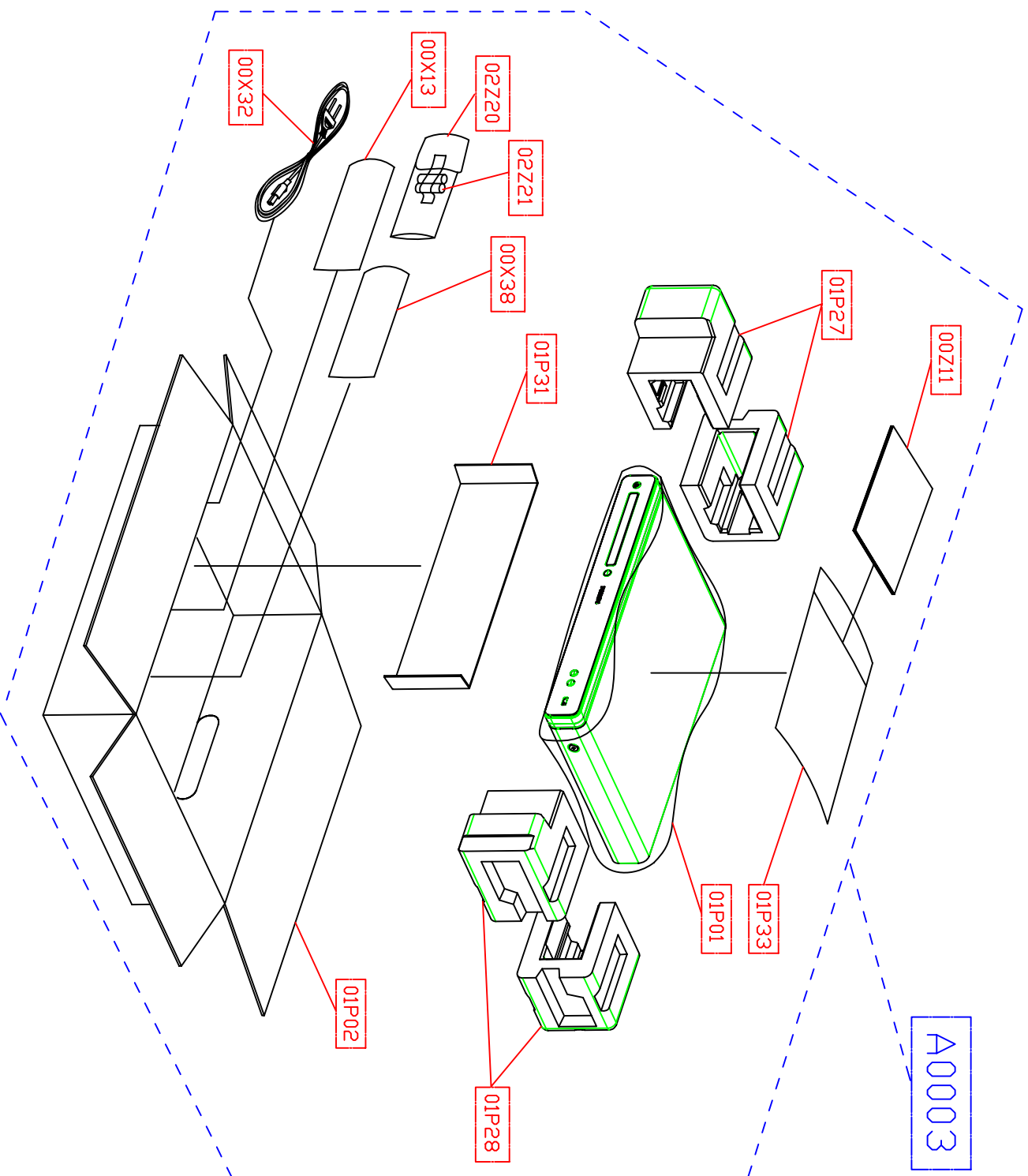
PSU Board Layout



8-1 Exploded View



8-2 Packing Exploded View



9. Service parts & screws list

9-1 Parts & Screws List of BDP-7300/5000

Loc. No.	Philips 12NCs	Description	7300/12	7300/93	7300/98	7300/51	5000/12
A0002	996510024126	ASSY FRONT BDP7300	1	1	1	1	
A0002	996510024096	ASSY.FRONT BDP5000					1
PCB01	996510025741	ASSEMBLY PCB/SWITCH	1	1	1	1	1
PCB02	996510025743	ASSEMBLY PCB/DISPLAY	1	1	1	1	1
00X28	996510024091	FFC 16P L=150mm P=1.0mm	1	1	1	1	1
00X12	996510024088	HRNS 5P 380mm	1	1	1	1	1
00X29	996510024087	HRNS 5P 165mm	1	1	1	1	1
05Z32	996510024107	SHIELDING CU FOIL	1	1	1	1	1
PCB03	996510025746	ASSY-PCB/MAIN-BDP7300	1				
PCB03	996510025972	ASSY-PCB/MAIN-BDP7300		1			
PCB03	996510025965	ASSY-PCB/MAIN-BDP7300			1		
PCB03	996510025967	ASSY-PCB/MAIN-BDP7300				1	
PCB03	996510025745	ASSY-PCB/MAIN-BDP5000					1
PCB04	996510025748	ASSEY-PCB/AV-BDP7300	1	1	1	1	
PCB04	996510025744	ASSY--PCB/AV-BDP5000					1
00J01	996510024114	CONN INLET ASSY	1	1	1	1	1
00X02	996510024101	FFC 27P L=75mm P=1.0mm	1	1	1	1	1
00X03	996510024105	FFC 11P L=75mm P=1.0mm	1	1	1	1	1
00X11	996510024123	CABLE SATA 7P 120mm	1	1	1	1	1
00Z32	996510025742	ASSEMBLY DC-DRIVE	1	1	1	1	1
00Z34	996510024093	SWITCHING ADAPTER	1	1	1	1	1
05B01	996510024124	COVER TOP BDP7300	1	1	1	1	
05B01	996510024111	COVER TOP BDP5000					1
05B02	996510024127	COVER REAR BDP7300	1	1	1	1	
05B02	996510024092	COVER REAR BDP5000					1
05C02	996510024089	BEZEL TRAY	1	1	1	1	1
05D32	996510024095	HEAT SINK 30*30*2	1	1	1	1	1
06W01	----	INSULATOR MYLAR	2	2	2	2	2
07V71	996510024112	SCREW M3 L10.5mm	4	4	4	4	4
07V77	996510024104	SCREW M3.0 7mm	2	2	2	2	2

Service Parts & screw lists**BDP5000/12 & BDP7300/12/51/93/98**

Loc. No.	Philips 12NCs	Description	7300/12	7300/93	7300/98	7300/51	5000/12
08W01	996510024122	TIES WIRE 19*12	1	2	2	2	1
08W02	996510024109	TIES WIRE 16*11.4	1	2	2	2	1
08W05	996510024086	RUBBER SPACER 45*8*5.9	1	1	1	1	1
08W06	996510024099	RUBBER NTI-DROP 17*5.5*4.8	1	1	1	1	1
08W07	996510024097	RUBBER NTI-DROP 45*9*8.1	1	1	1	1	1
08W08	996510024118	RUBBER NTI-DROP 12.5*4*4	2	2	2	2	2
08W09	996510024117	RUBBER NTI-DROP 25.5*5*9	2	2	2	2	2
00X13	996510024119	CABLE HDMI 1500mm	1		1		
00X32	996510024102	PWR CORD-183+-5CM--2PIN	1	1	1	1	1
00X38	996510024113	CABLE AV 1500mm	1	1	1	1	1
02Z20	996510024098	CTRL REMOTE	1	1	1	1	1

10. REVISION LIST

Version 1.0

- * Initial Release

Version 1.1

- * Correction of part code
- * Addition of BDP 7300/51, BDP 7300/93 and BDP 7300/98 versions