

Service
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Service



Service Manual

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Subject to modification

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**CLASS 1
LASER PRODUCT**

Version 1.4



PHILIPS

Specifications for BDP3000/55



Note

- Specification and design are subject to change without notice

Play media

BD-Video, DVD-Video, DVD+R/+RW, DVD-R/-RW, DVD+R/-R DL, CD-R/CD-RW, Audio CD, Video CD/SVCD, Picture CD, MP3-CD, WMA-CD, DivX (Ultra)-CD.

Accessories supplied

- Remote control and batteries
- Audio/Video cables
- Power cable
- Quick start guide
- User manual
- CD-ROM built in multi-lingual user manual (not available for UK version)

Video

- Signal system: PAL / NTSC
- Composite video output: 1 Vp-p (75 ohm)
- Component video output: 480/576i, 480/576p, 720p, 1080i
 - Y: 1 Vp-p (75 ohm)
 - Pb: 0.7 Vpp (75 ohm)
 - Pr: 0.7 Vpp (75 ohm)
- HDMI output 480p, 576p, 720p, 1080i, 1080p, 1080p24

Audio

- 2 Channel analog output
 - Audio Front L&R : 2 Vrms (> 1 kohm)
- Digital output: 0.5 Vp-p (75 ohm)
 - Coaxial
- HDMI output
- Sampling frequency:
 - MP3: 32 kHz, 44.1 kHz, 48 kHz
 - WMA: 44.1 kHz, 48 kHz
- Constant bit rate:
 - MP3: 112 kbps - 320 kbps
 - WMA: 48 kbps - 192 kbps

USB

- As additional memory for software updates and BD-Live bonus contents. Not for media play.

Main unit

- Power supply rating
 - Europe: 220~240V ~AC, ~50 Hz
 - Russia: 220~230V ~AC, ~50 Hz
 - Asia Pacific: 110~240V ~AC, 50~60 Hz
 - Latin America: 110~240V ~AC, 50~60 Hz
 - China: 110~240V ~AC, ~50 Hz
- Power consumption: 25W
- Power consumption in standby mode: 1W
- Dimensions (w x h x d): 435 x 58 x 227 (mm)
- Net Weight: 2.5 kg

Laser Specification

- Laser Type:
 - BD Laser Diode: InGaN/AlGaIn
 - DVD Laser Diode: InGaAlP
 - CD Laser Diode: A IGaAs
- Wave length:
 - BD: 405 +5nm/-5nm
 - DVD: 650 +13nm/-10nm
 - CD: 790 +15nm/-15nm

Specifications for BDP3000/93/98/94/96/75 & BDP3008/98



Note

- Specification and design are subject to change without notice

Play media

BD-Video, DVD-Video, DVD+R/+RW, DVD-R/-RW, DVD+R/-R DL, CD-R/CD-RW, Audio CD, Video CD/SVCD, Picture CD, MP3-CD, WMA-CD, DivX (Ultra)-CD.

Accessories supplied

- Remote control and batteries
- Audio/Video cables
- Power cable
- Quick start guide
- User manual

Video

- Signal system: PAL / NTSC
- Composite video output: 1 Vp-p (75 ohm)
- Component video output: 480/576i, 480/576p, 720p, 1080i
 - 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, 1080p24

Audio

- 2 Channel analog output
 - Audio Front L&R : 2 Vrms (≥ 1 kohm)
- Digital output: 0.5 Vp-p (75 ohm)
 - Coaxial
- HDMI output
- Sampling frequency:
 - MP3: 32 kHz, 44.1 kHz, 48 kHz
 - WMA: 44.1 kHz, 48 kHz
- Constant bit rate:
 - MP3: 112 kbps - 320 kbps
 - WMA: 48 kbps - 192 kbps

USB

- As additional memory for software updates and BD-Live bonus contents. Not for media play.

Main unit

- Power supply rating
 - Europe: 220~240V ~AC, ~50 Hz
 - Russia: 220~230V ~AC, ~50 Hz
 - Asia Pacific: 110~240V ~AC, 50~60 Hz
 - Latin America: 110~240V ~AC, 50~60 Hz
 - China: 110~240V ~AC, ~50 Hz
- Power consumption: 25W
- Power consumption in standby mode: 1W
- Dimensions (w x h x d): 435 x 58 x 227 (mm)
Dimensions (w x h x d): 435 x 62 x 237 (mm) for BDP3008/98
- Net Weight: 2.5 kg

Laser Specification

- Laser Type:
 - BD Laser Diode: InGaN/AlGaIn
 - DVD Laser Diode: InGaAlP
 - CD Laser Diode: A IGaAs
- Wave length:
 - BD: 405 +5nm/-5nm
 - DVD: 650 +13nm/-10nm
 - CD: 790 +15nm/-15nm
- Output power:
 - BD: Max. ratings: 20mW
 - DVD: Max. ratings: 7mW
 - CD: Max. ratings: 7mW

Remark: The X78 Packing infor only from oversea factory.

Safety instruction, Warning & Notes

Safety instruction

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 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 1M Ω .
 - 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. 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	: 650nm (DVD)
	: 780nm (VCD/CD)
Output power	: 7mW (DVD)
	: 10mW (DVD /CD)

Beam divergence: 60 degree

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.

Warning

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:

- 1) Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.

- 2) Wristband tester 4822 344 13999.

. Be careful during measurements in the live voltage section. The primary side of the power supply, including the heat sink, 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 "lighting 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. 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:


**CAUTION: VISIBLE AND INVISIBLE LASER
RADIATION WHEN OPEN, AVOID EXPOSURE
TO BEAM.**

Notes: Manufactured under licence from Dolby Laboratories. The double-D symbol is trademarks of Dolby Laboratories, Inc. All rights reserved.

Notes

Lead-Free requirement for service

INDENTIFICATION:

Regardless of special logo (not always indicated) 

One must treat all sets from **1.1.2005** onwards, according next rules.

Important note: In fact also products a little older can also 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-paste is required, please contact the manufacturer of your solder-equipment. In general use of solder-paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free solder alloy. The solder tool must be able
 - To reach at least a solder-temperature of 400°C,
 - To stabilize the adjusted temperature at the solder-tip
 - 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, 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 highest 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. This will be communicated via AYS-website.
- Do not re-use BGAs at all.
- For sets produced before 1.1.2005, containing leaded soldering-tin and components, all needed spare-parts will be available till the end of the service-period. For repair of such sets nothing changes.
- On our website:

www.atyourservice.ce.Philips.com

You find more information to:

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

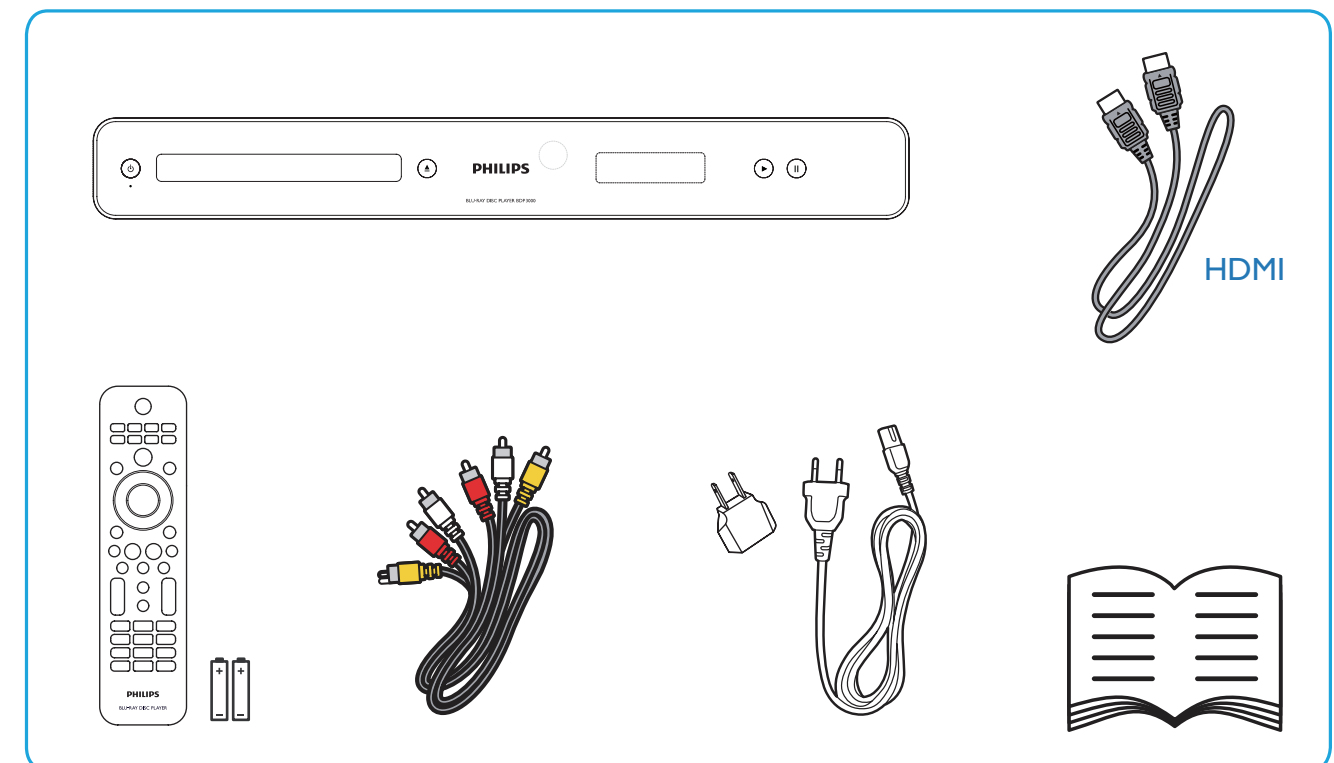
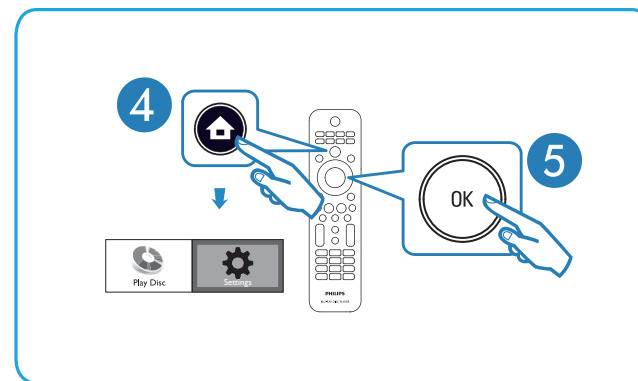
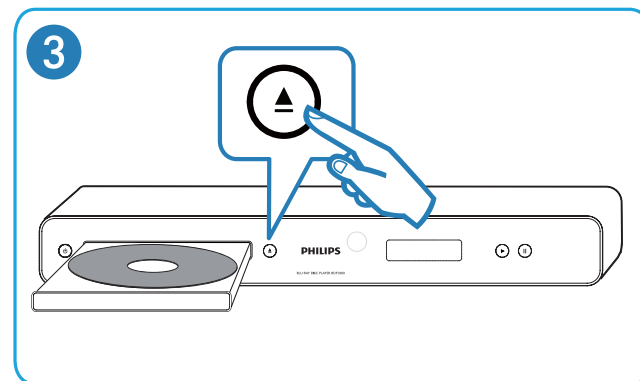
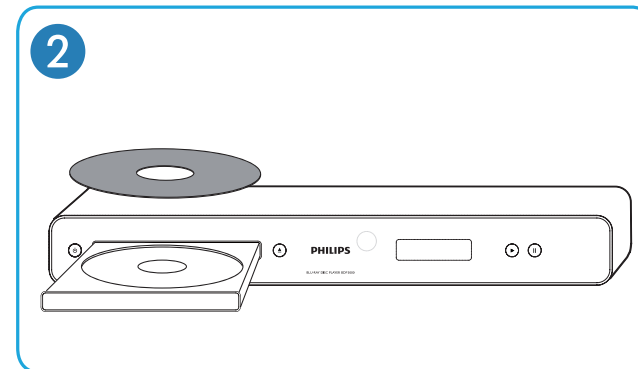
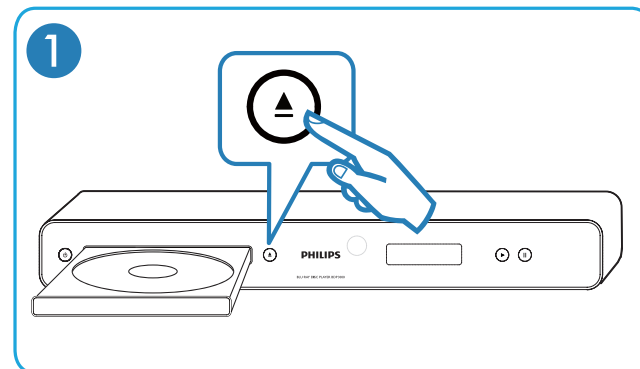
You will find this and more technical information within the "magazine", chapter "workshop news".
For additional questions please contact your local repair-helpdesk.

3

The following excerpt of the Quick Start Guide serves as an introduction to the set. The complete Direction For Use can be download in different languages from Philips Customer Contact & Support site: www.p4c.philips.com

www.philips.com/welcome

BDP3000



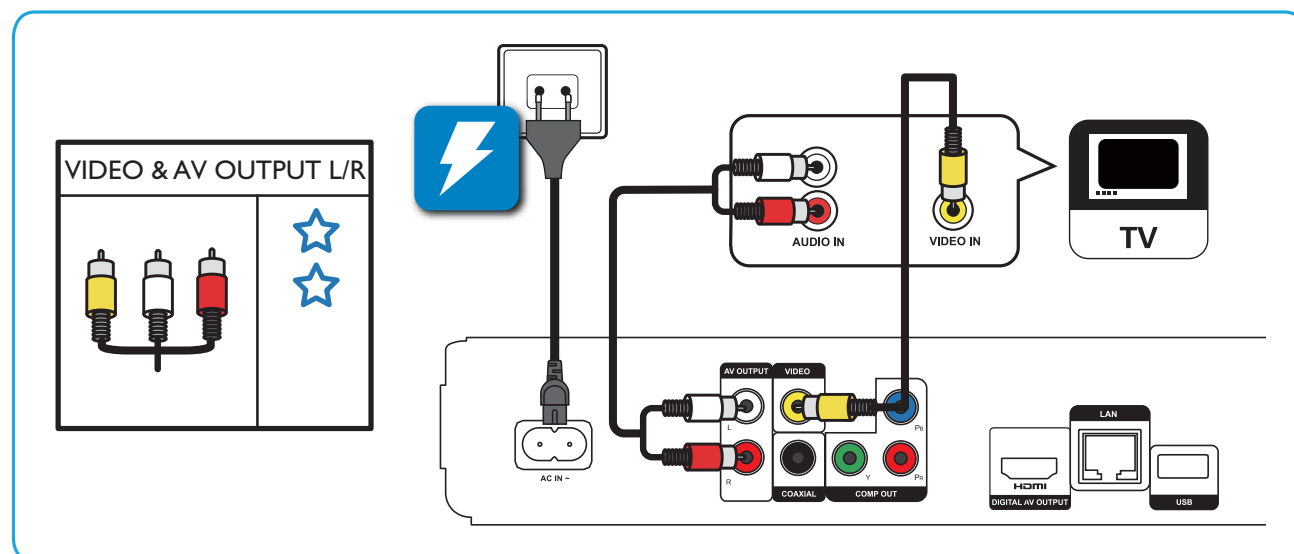
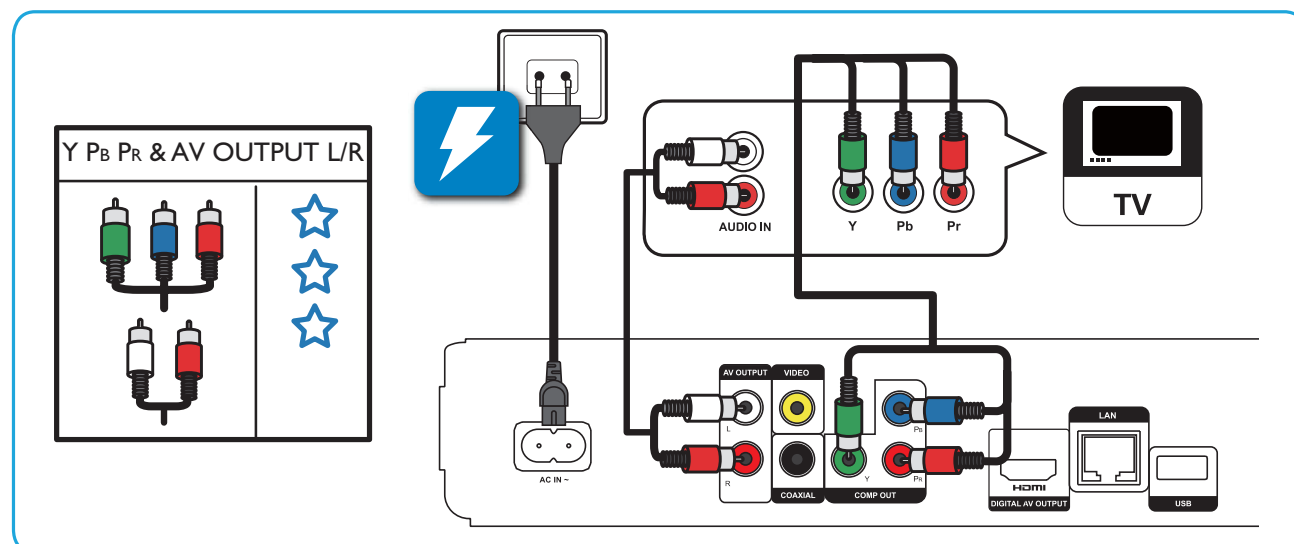
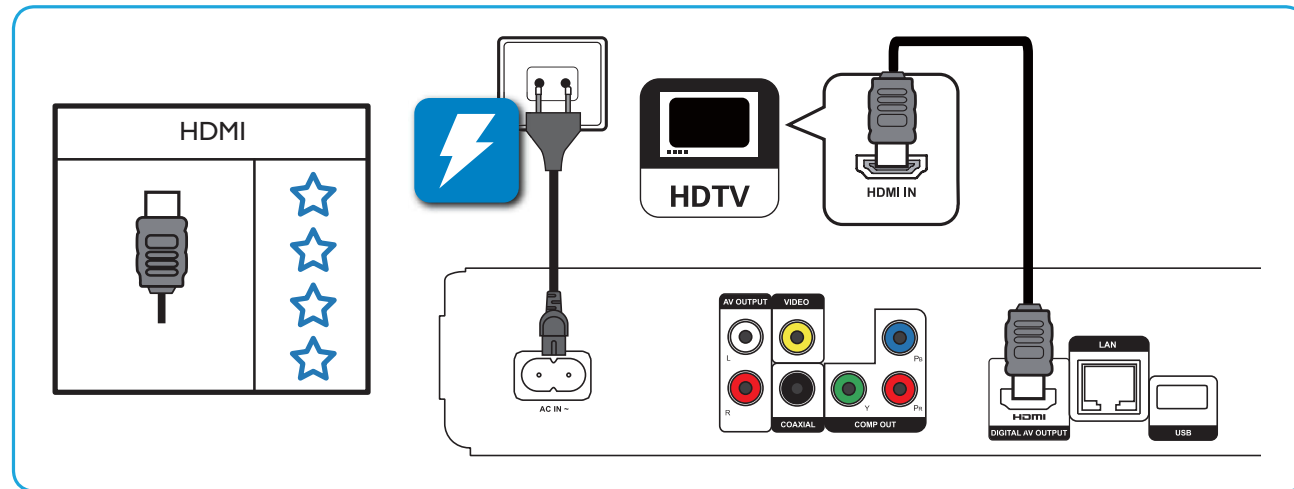
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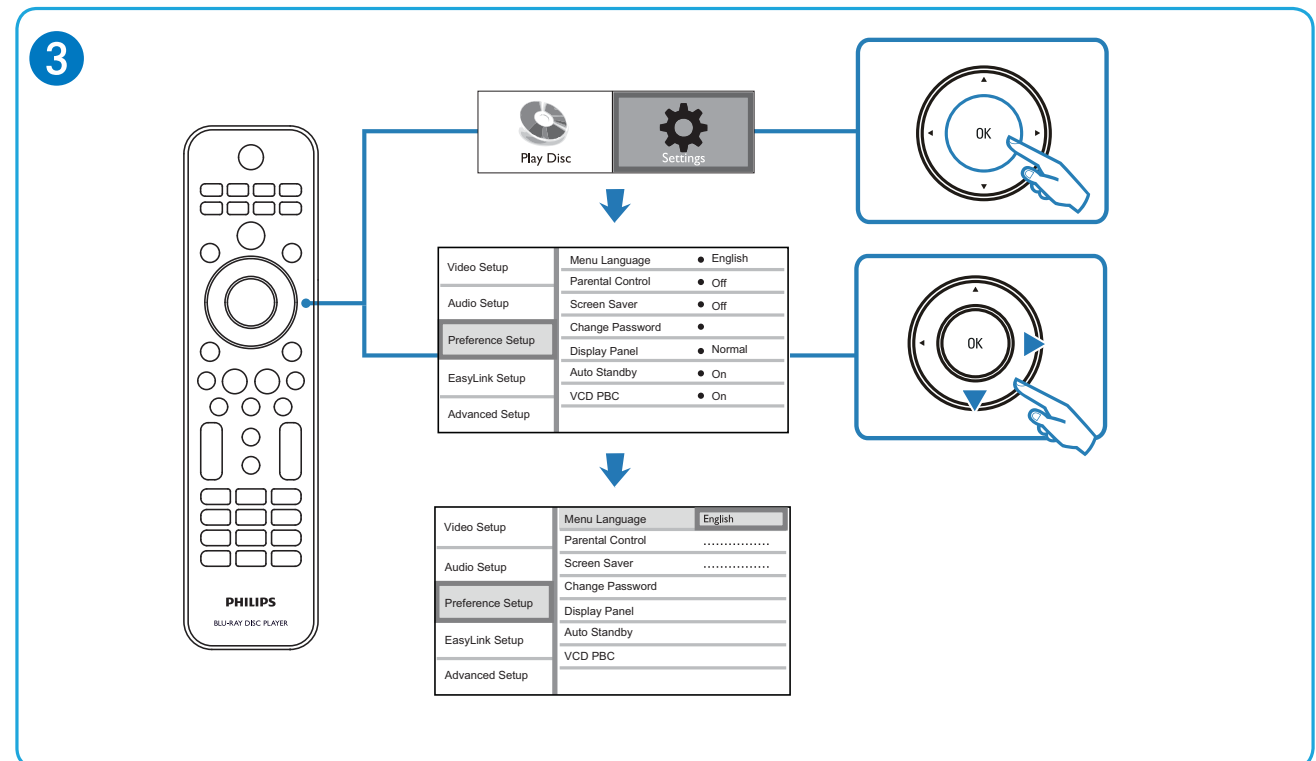
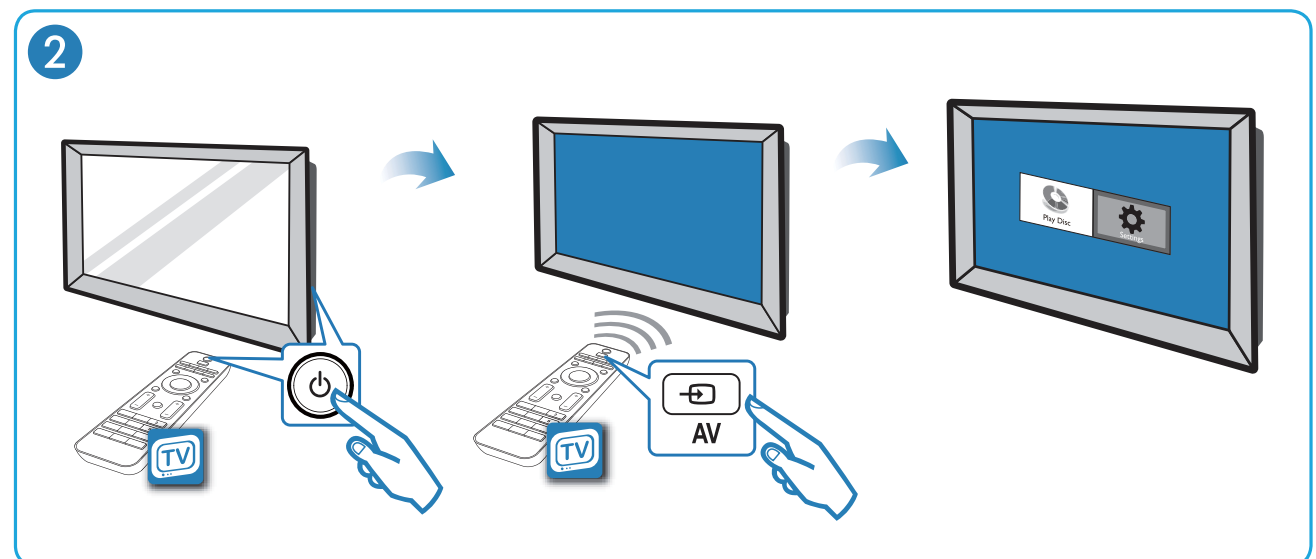
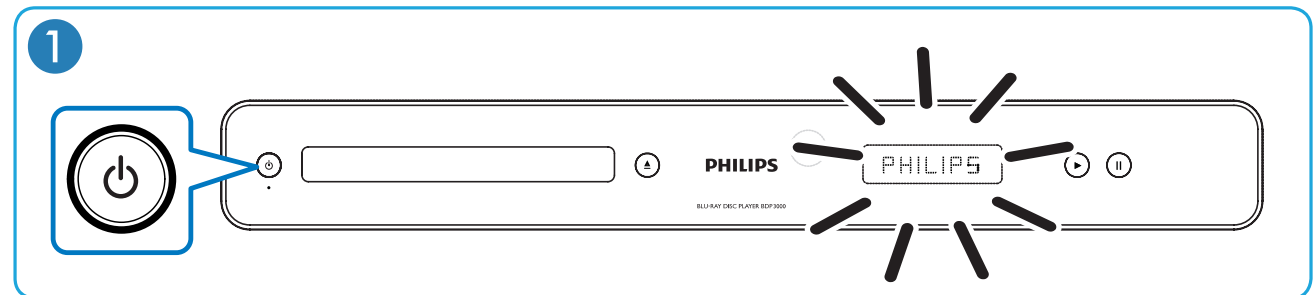
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Respect copyrights

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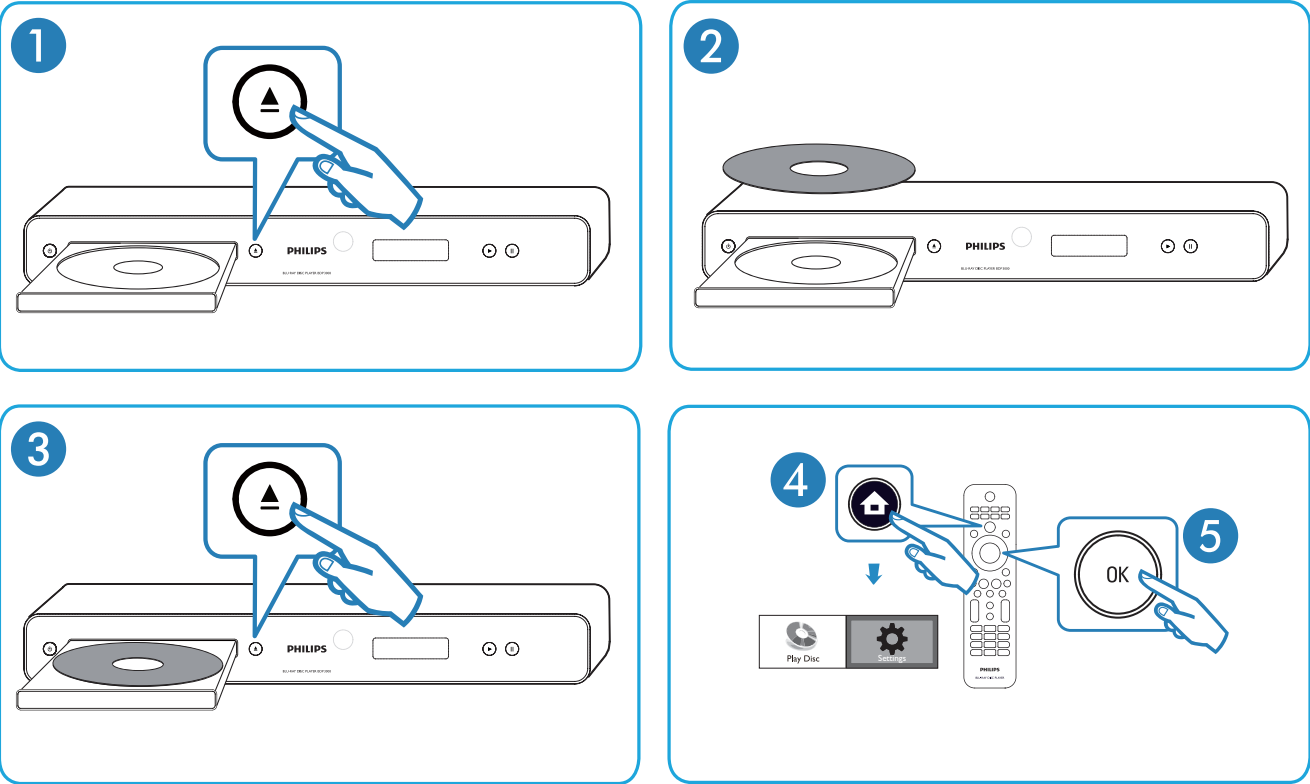
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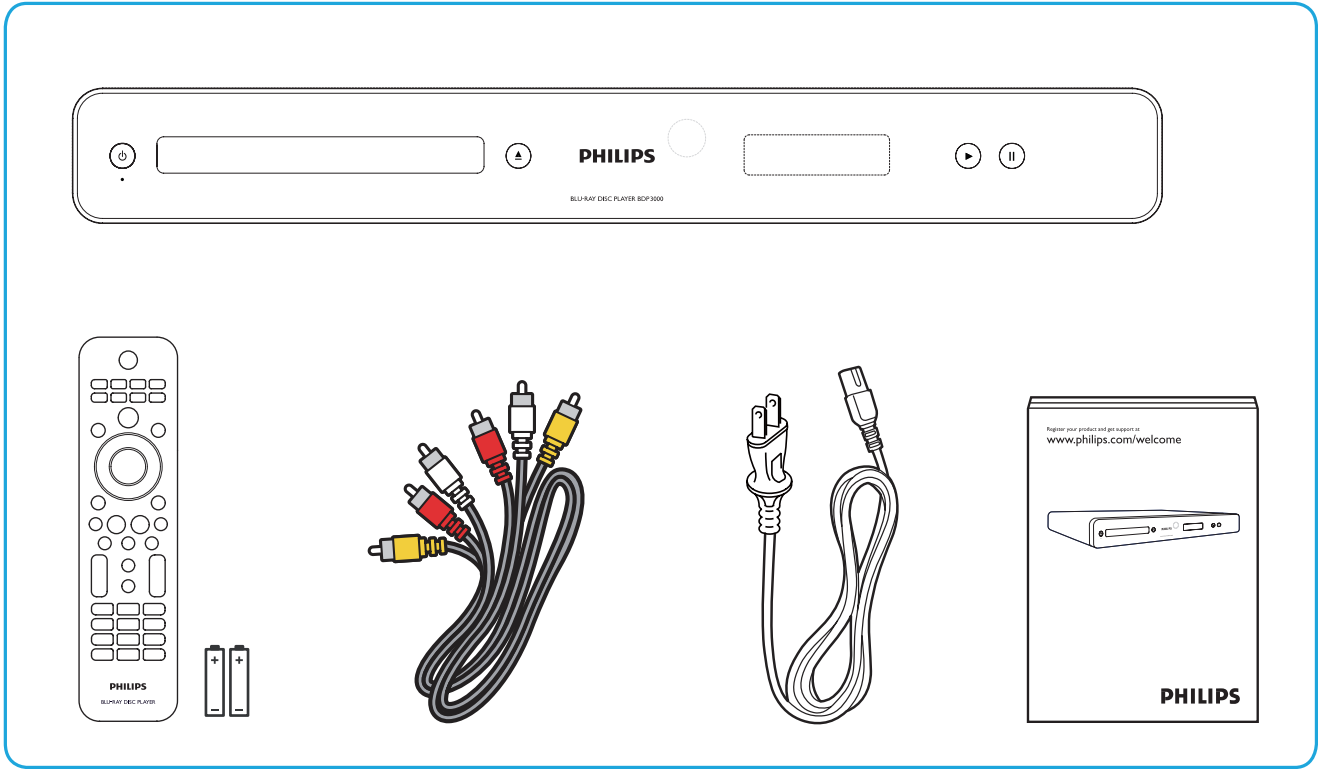


3 The following excerpt of the Quick Start Guide serves as an introduction to the set. The complete Direction For Use can be download in different languages from Philips Customer Contact & Support site: www.p4c.philips.com



i www.philips.com/welcome

BDP3000

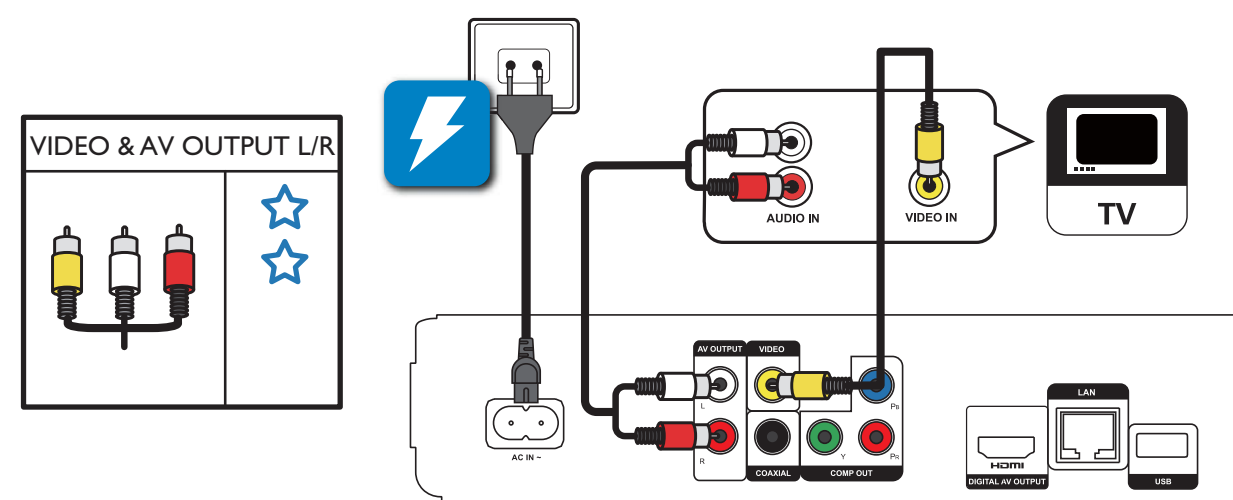
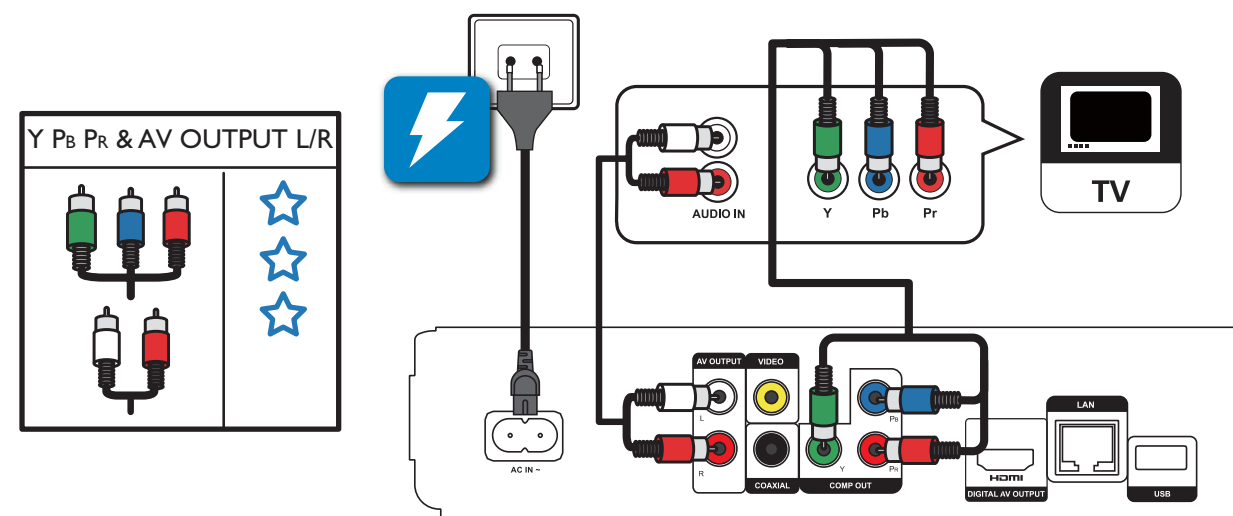
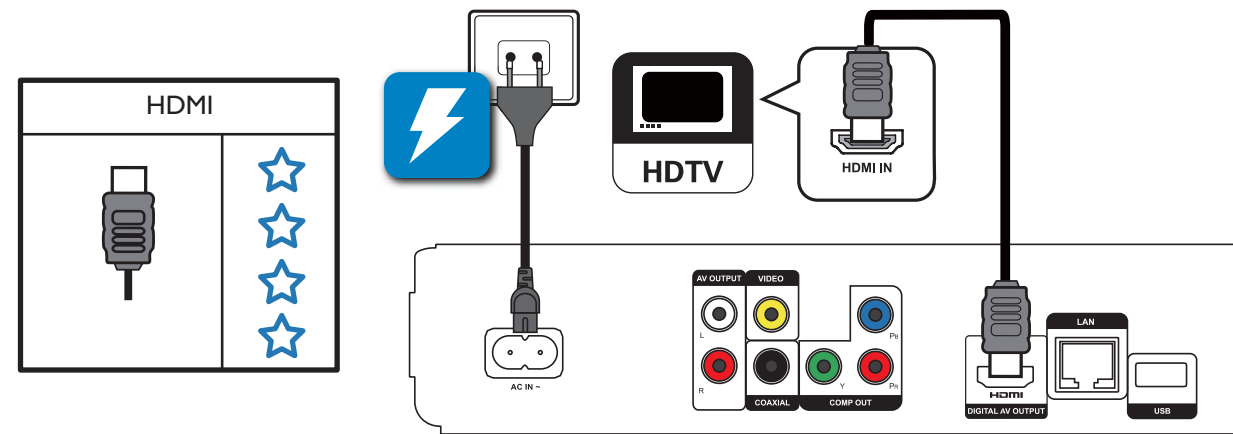


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Respect copyrights

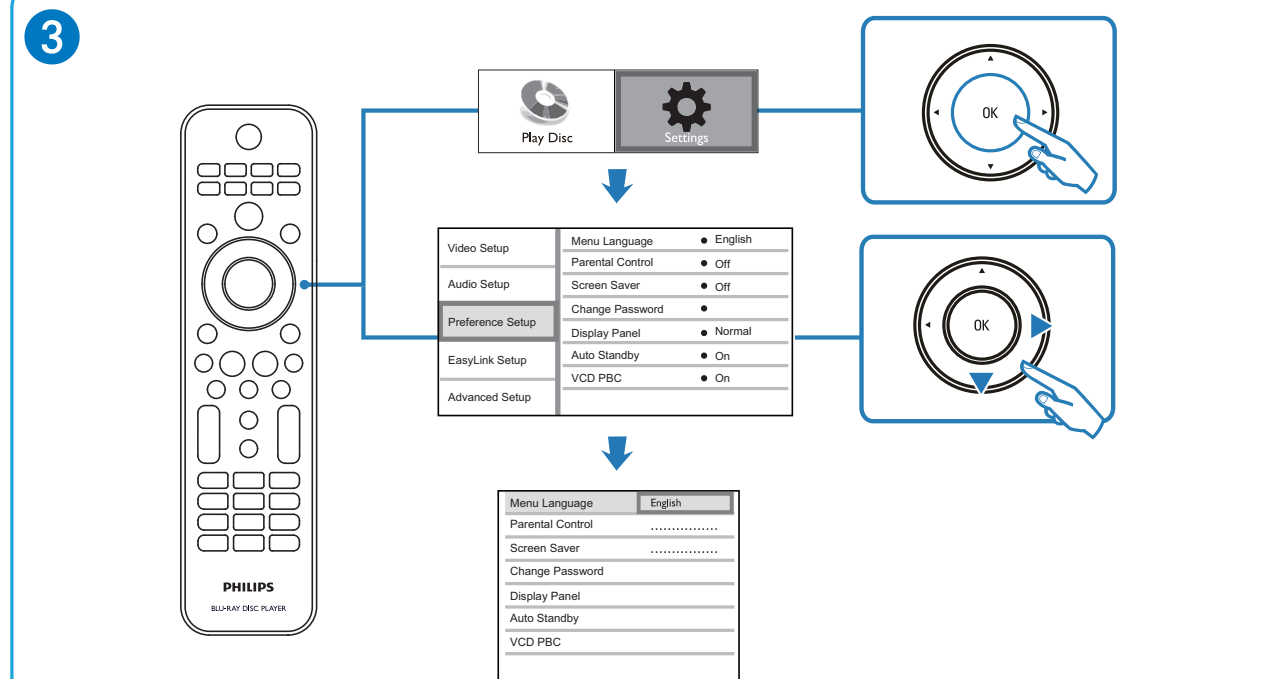
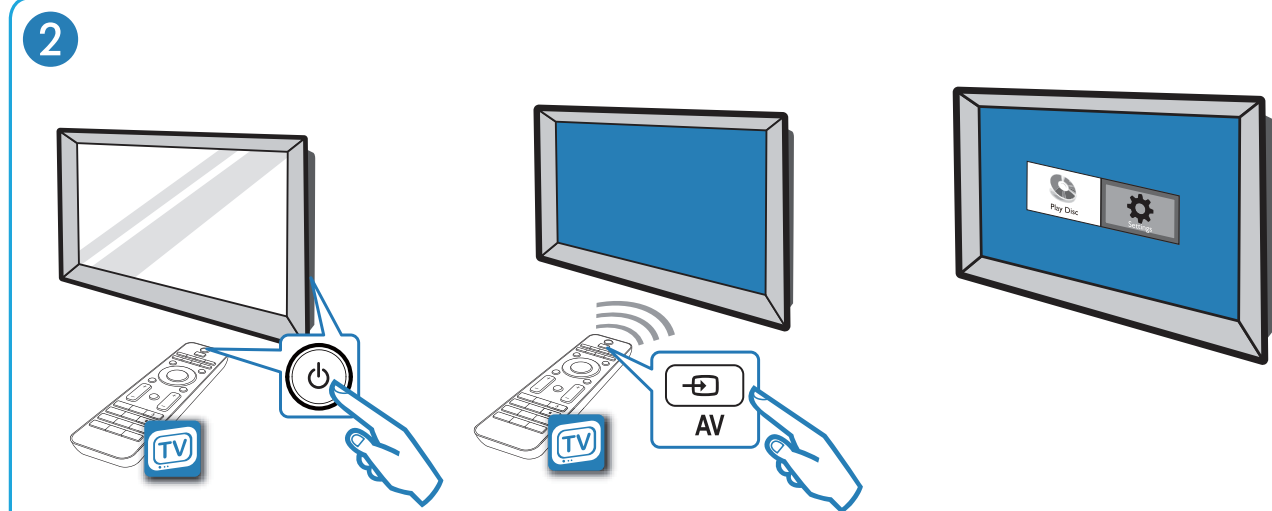
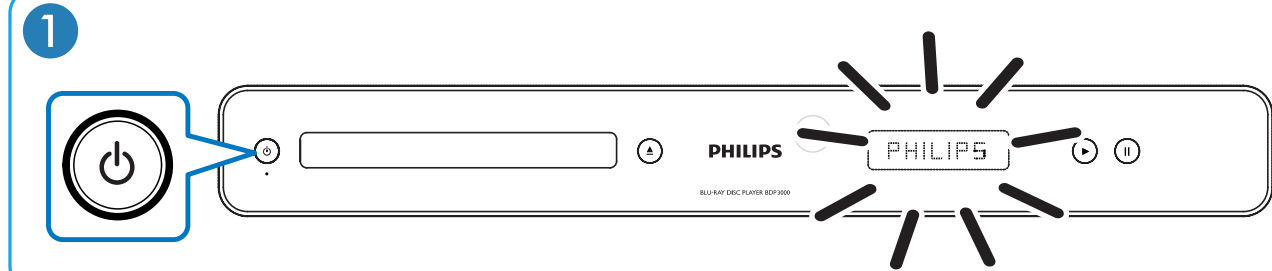
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1

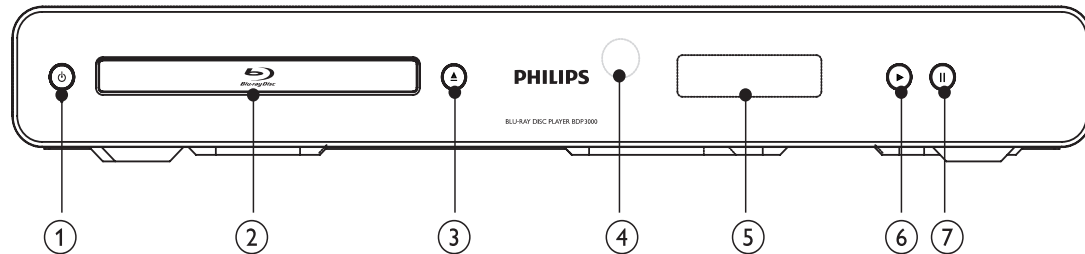


2



Product overview

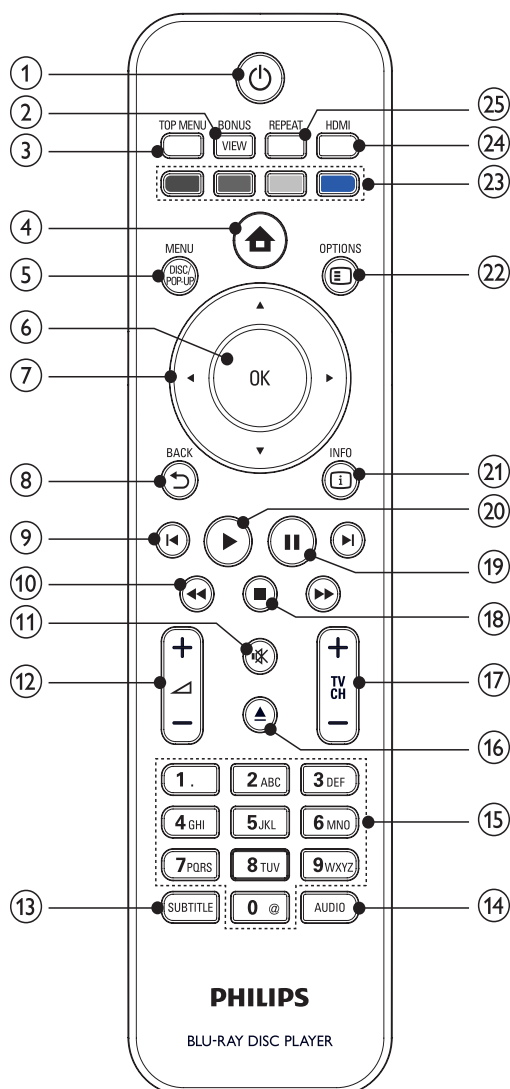
Main unit



- ①
 - Turn on the disc player or switch to standby mode.
 - When EasyLink is enabled, switch the disc player and all EasyLink devices to standby. Note that you must press and hold for at least 3 seconds for this to occur.
- ② **Disc compartment**
- ③
 - Open or close the disc compartment.
- ④ **IR sensor**
 - Point the remote control at the IR sensor.
- ⑤ **Display panel**
- ⑥
 - Start or resume play.
- ⑦
 - Pause play.
 - Move the paused picture one step forward.

Front panel display	Description
LOADING	Loading a disc.
UNSUPP	The disc is not supported.
BD	Blu-ray disc is recognized.
HDMI ERR	The HDMI video resolution is not supported by TV.
FASTFWD	Fast forward mode.
FASTBWD	Fast reverse mode.
SLOWFWD	Slow forward mode.
SETTINGS	Setup menu is displayed.
HOME	Home menu is displayed.
CHAPTER	Current chapter is in chapter repeat mode.
RESUME	Resume play is possible.
DOLBY D	Dolby Digital audio is being played.
DOLBY HD	Dolby HD audio is being played.
UPGRADE	Software upgrade is in progress.

Remote control



- ① **Power**
- Turn on the disc player or switch to standby mode.
 - When EasyLink is enabled, switch the disc player and all EasyLink devices to standby. Note that you must press and hold **Power** for at least 3 seconds for this to occur.

- ② **BONUSVIEW**
- Turn on or off the secondary video in a small screen window during play (applicable only to BD-video that supports the BONUSVIEW or Picture-In-Picture feature).

- ③ **TOP MENU**
- **BD**: Display the top menu.
 - **DVD**: Display the title menu.

- ④ **Home**
- Access the home menu.

- ⑤ **DISC MENU / POP-UP MENU**
- **BD**: Access or exit the pop-up menu.
 - **DVD**: Access or exit the disc menu.
- ⑥ **OK**
- Confirm an entry or selection.
- ⑦ **Navigation arrows**
- Navigate through the menus.
- ⑧ **BACK**
- Return to a previous display menu.
- ⑨ **Previous/Next title, chapter, or track**
- Skip to the previous or next title, chapter, or track.
- ⑩ **Search backward or forward**
- Search backward or forward.
- ⑪ **Mute**
- Mute volume (applicable only to certain Philips brand TVs).
- ⑫ **Volume +/-**
- Adjust volume (applicable only to certain Philips brand TVs).
- ⑬ **SUBTITLE**
- Select a subtitle language on a disc.
- ⑭ **AUDIO**
- Select an audio language or channel on a disc.
- ⑮ **Alphanumeric buttons**
- Select an item to play.
 - Enter values or letters (via SMS style entry).
- ⑯ **Disc compartment**
- Open or close the disc compartment.
- ⑰ **TV CH +/-**
- Select a TV channel (applicable only to certain Philips brand TVs).
- ⑱ **Stop**
- Stop play.
- ⑲ **Pause**
- Pause play.
 - Move the paused picture one step forward.
- ⑳ **Play**
- Start or resume play.
- ㉑ **INFO**
- Display the current status or the disc information.
- ㉒ **OPTIONS**
- Access options for the current activity or selection.
- ㉓ **Color buttons**
- **BD**: Select tasks or options.
- ㉔ **HDMI**
- Select the video resolution of HDMI output.
- ㉕ **REPEAT**
- Select repeat play or random play.

Mechanical and Dismantling Instructions

Dismantling Instruction

Detailed information please refer to the model set.

The following guidelines show how to dismantle the player.

Step1: Remove 6 screws around the Top Cover, and then remove the Top Cover (Figure 1).

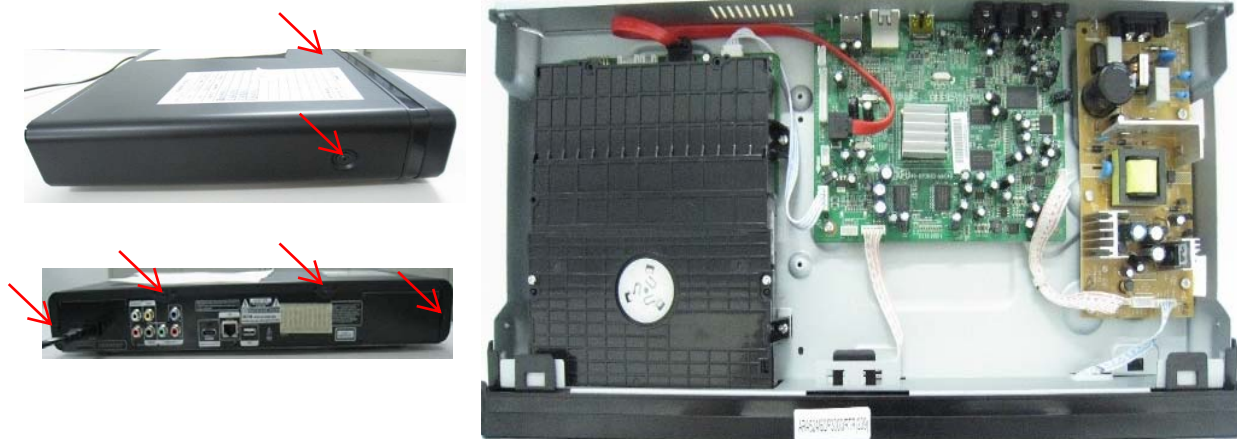


Figure 1

Step2: If it is necessary to dismantle Loader or Front Panel, the Front door should be removed first. (Figure 2)

Note: Make sure to operate gently otherwise the guider would be damaged.



Please kindly note that dismantle the front door assembly carefully to avoid damage tray and the front door.

Figure 2

Mechanical and Dismantling Instructions

Dismantling Instruction

Detailed information please refer to the model set.

Step3: If the tray can't open in normal way, you can make it through the instruction as below (Figure 3).

Note: Make sure to operate gently otherwise the guider would be damaged.



Figure 3

Step4: Dismantling Front Panel, disconnect the connectors (J306, CN502), need release 5 snaps of Front Panel and 2 snaps of bottom cabinet , then gently pull the Panel out from the set. (Figure 4 - Figure 6)

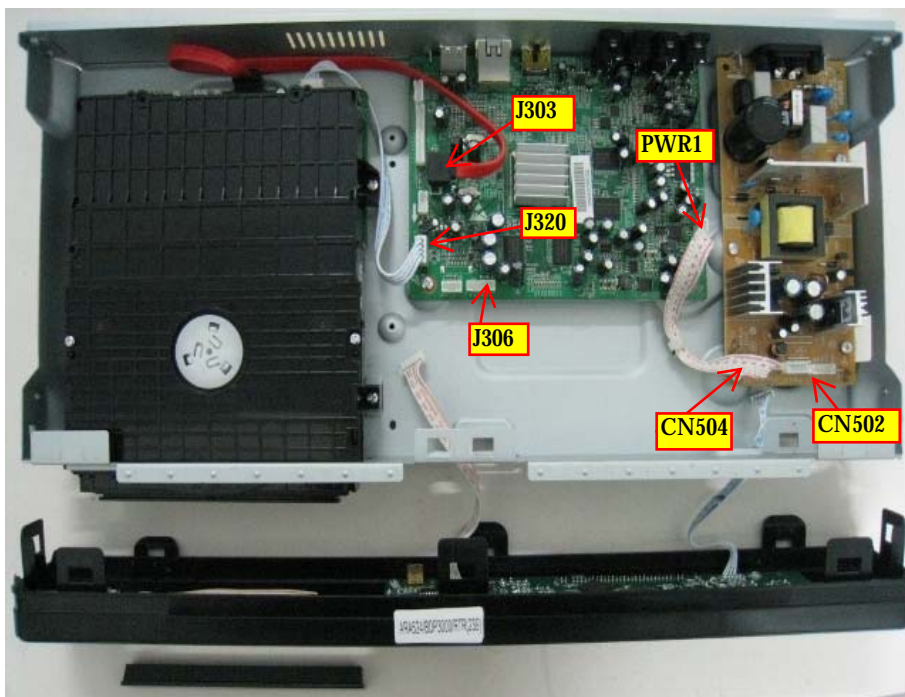


Figure 4

Mechanical and Dismantling Instructions

Dismantling Instruction

Detailed information please refer to the model set.

Step5: Dismantling Loader, disconnect the 1 connector (J303) aiming in the below figure, and remove 4 screws that connects the loader and the bottom cabinet. (Figure 5)

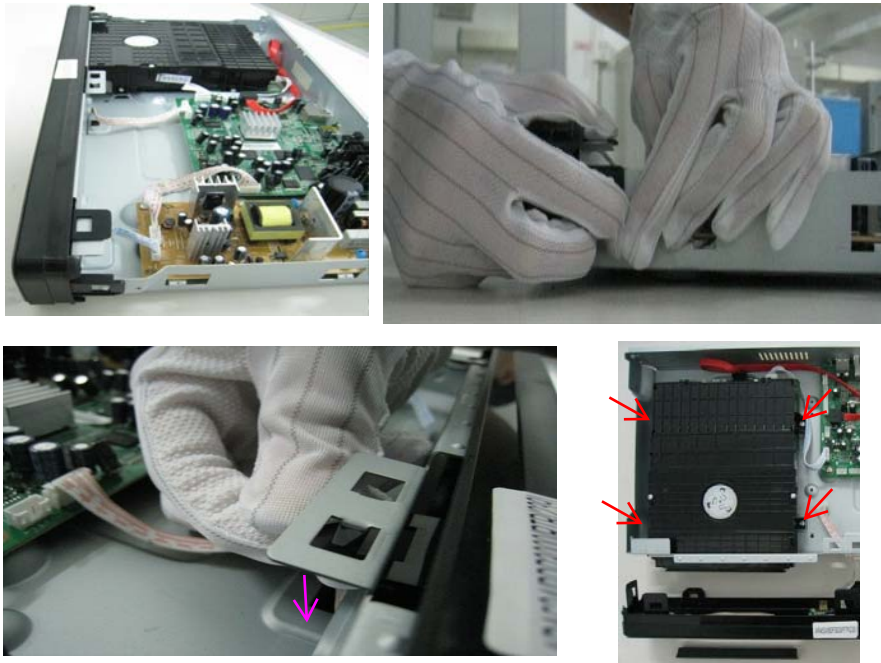


Figure 5

Step6: Dismantling Main Board, first disconnect the connector (J320), and then remove 7 screws. (Figure 6)

Step7: Disconnect connector (CN504, CN502) and remove 6 screws on Power Board to dismantle the Power Board. (Figure 6)



Figure 6

Software check and upgrade

Preparation to upgrade software

- 1) Start the CD burning software & create a folder named "UPG",
- 2) Then copy the Bin file (BDP3XXXXXX-XXX-XXXXXX.bin) into it,
- 3) Burn the data onto the blank CD.

A. Procedure for software upgrade

A) Upgrade software via Disc

- 1) Power on the set and insert the prepared Upgrade CDR.
- 2) The set will start reading disc & response with the following display TV screen:
Now searching for upgrade software!
Please wait...!

Still
- 3) Press <OK> button to confirm, then screen will display :
An upgrade software has been found!
Start upgrade with version:WKXXX.X?

Cancel

Start
- 4) Press Right cursor button to choose "Start", then press <OK>;
- 5) The software will upgrade and screen will display as below:
Upgrade is ongoing, Please wait...
Please do not unplug or switch off the device.
- 6) The screen will display as below when upgrading complete:
Upgrade has completed successfully!
Power off after 1s.

Power Off
- 5) Restart the set.

B) Upgrade software via network:

- 1) Setup the network connection (See "Getting started">"Set up network").
- 2) In the Home menu, select <Setting>-<Advanced Setup>-<Software Download>-<Network>.
- * You are prompted to start upgrading processes if upgrade media is detected.
- 3) Follow the instructions on the TV screen to confirm update operation.
- * Once software updated is complete, this player automatically turns off to standby.
- 4) Disconnect the power cord for a few seconds and connect again to turn on the player.

C) Update software via USB Flash Drive:

- 1) Go to www.philips.com/support to check if the latest software version is available for this player.
- 2) Download the software onto a USB flash drive.
- 3) Insert the USB flash drive to the USB jack of the rear panel.
- 4) In the Home menu, select <Setting>-<Advanced Setup>-<Software Download>-<USB>.
- 5) Follow the instructions on the TV screen to confirm update operation.
- * Once software update is complete, this player automatically turns to standby.
- 6) Disconnect the power cord for a few seconds and connect again to turn on the player.

B. Read out the software versions to confirm upgrading

- 1) Power on the set and open the tray door.
- 2) Press <Home> button on the remote control.
- 3) Select <Setting>, then press <OK>.
- 4) Select <Advanced Setup>, press right cursor to choose <Version Info.>, then press <OK>, the software version and other information will display on the TV screen as below:

Mainboard:XXX.XXX
Driver:XXXXXX XXXXXXXX
BDP3XXX
<http://www.philips.com/support>
MAC:XX-XX-XX-XX-XX-XX

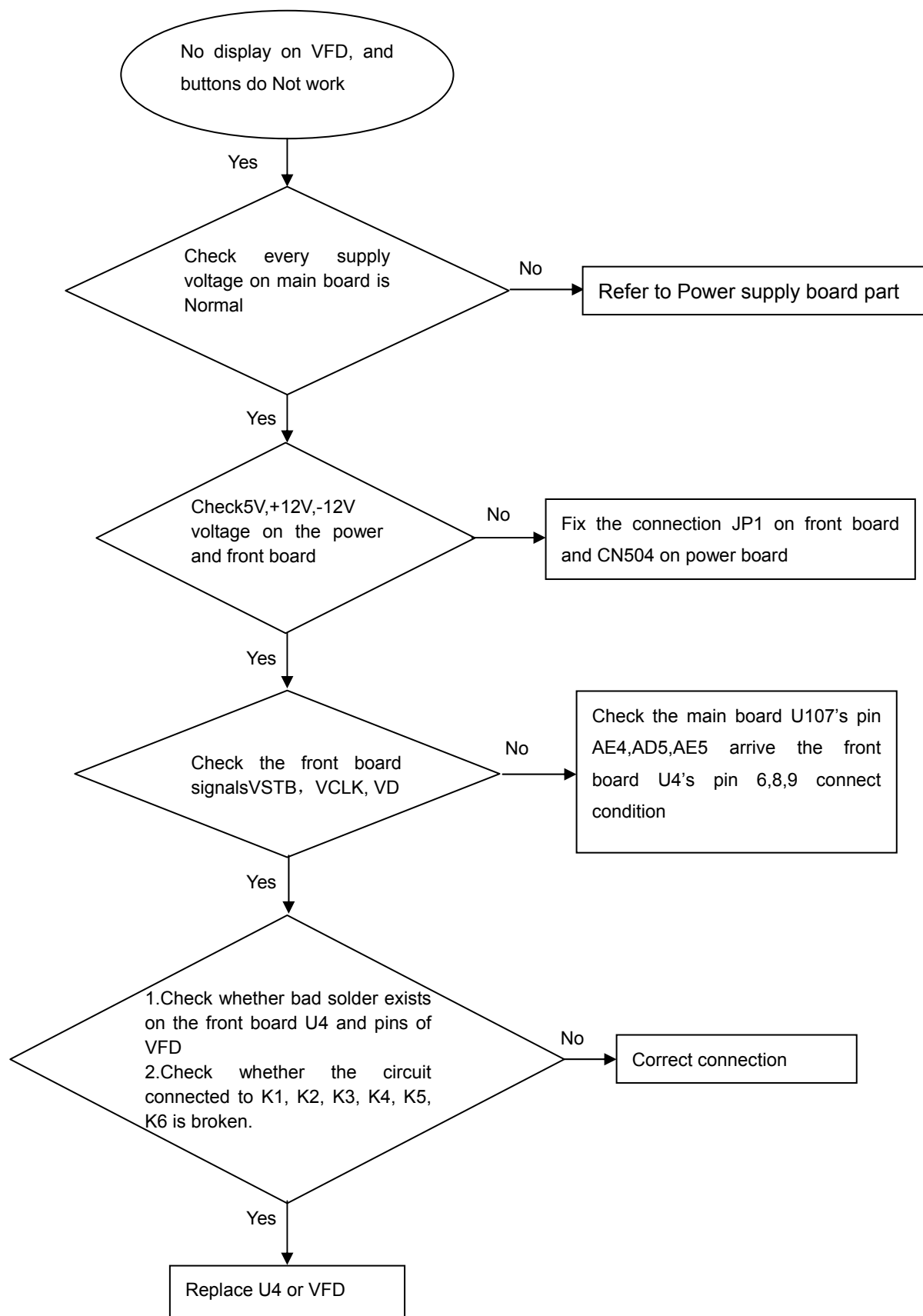
Caution: The set must not be power off during upgrading, otherwise the Main board will be damaged entirely.

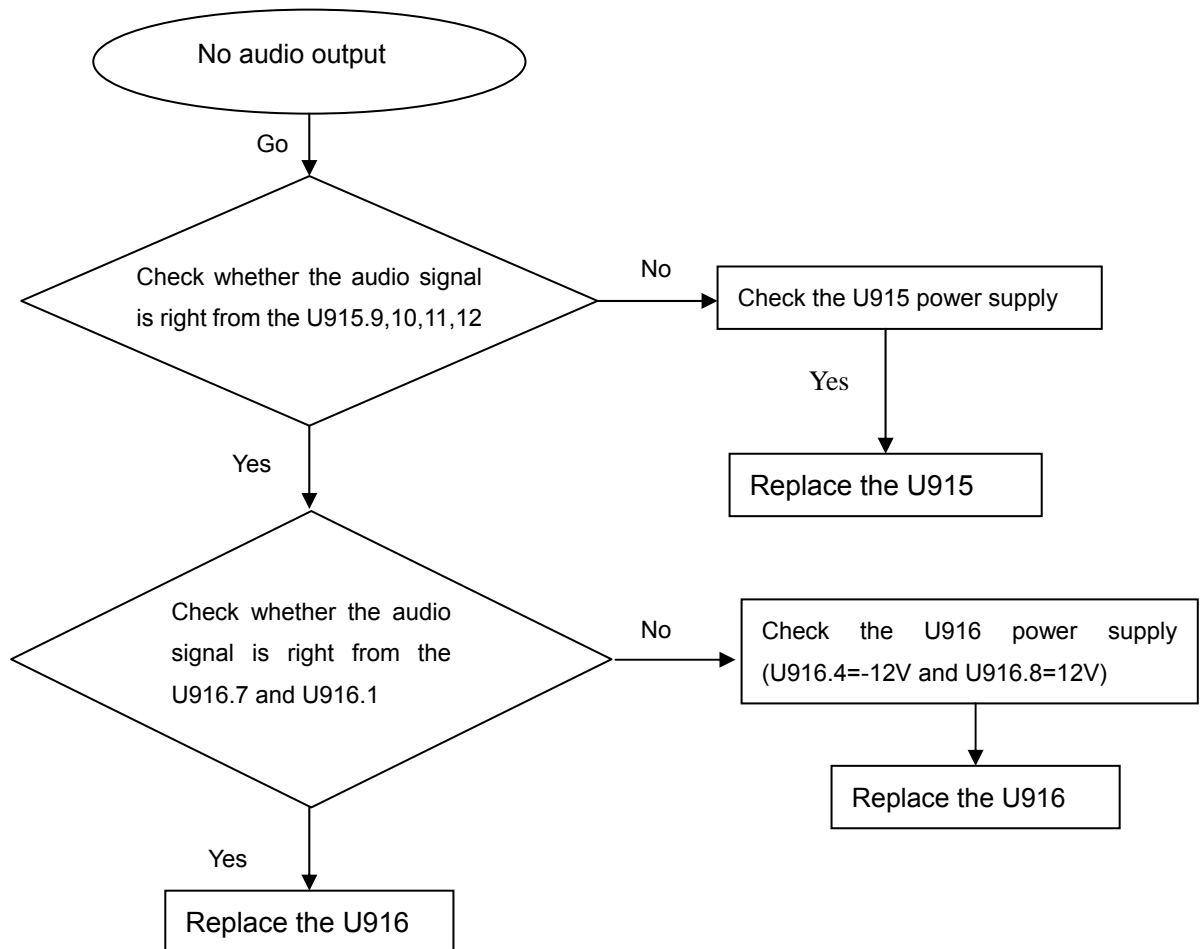
DVD Region code change

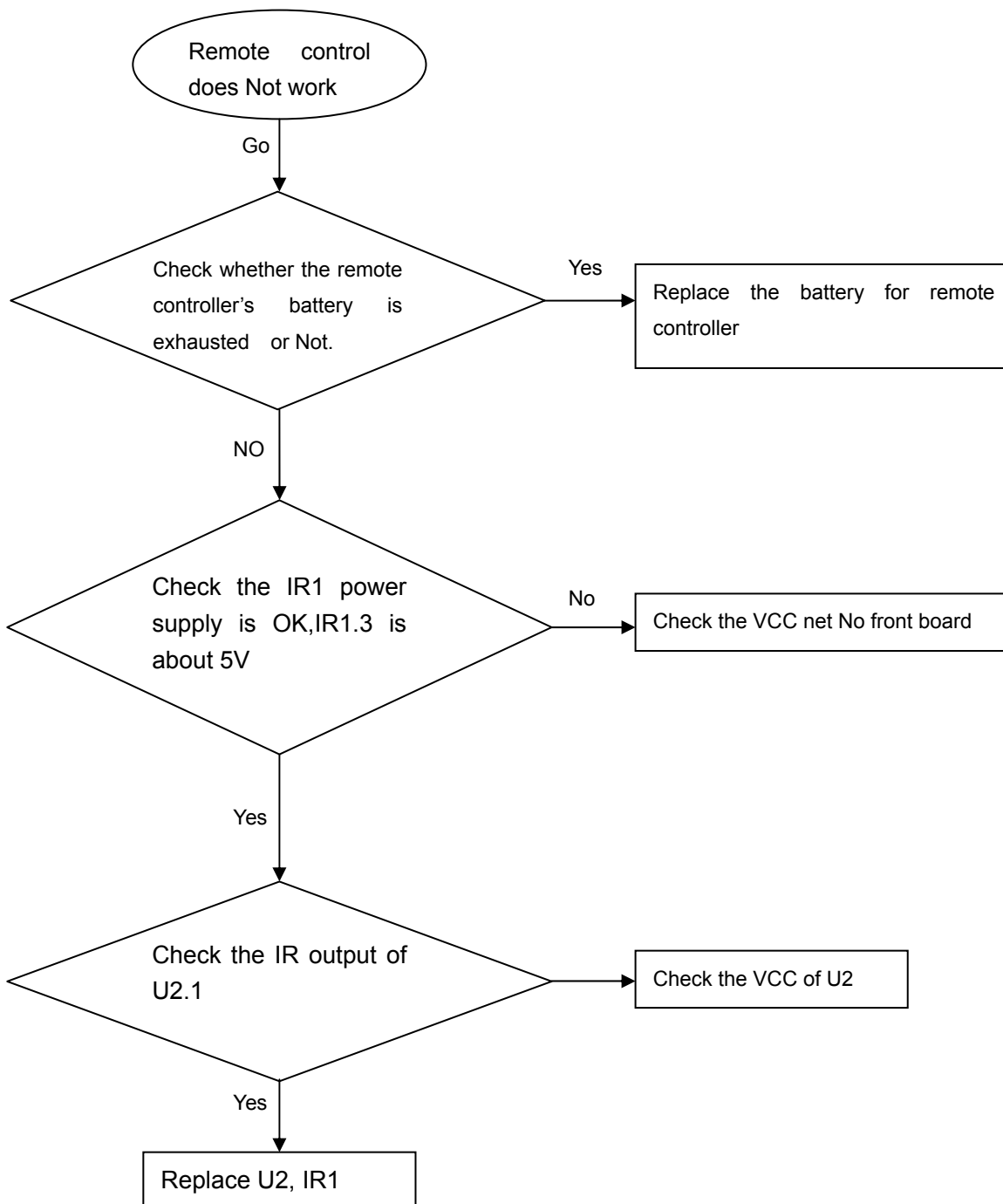
- 1).Power on the set and keep no disc.
- 2).In the Home menu, press <6><6><6><6> button.
- 3).Input below new region number by the remote control, then it will change after restart the player.

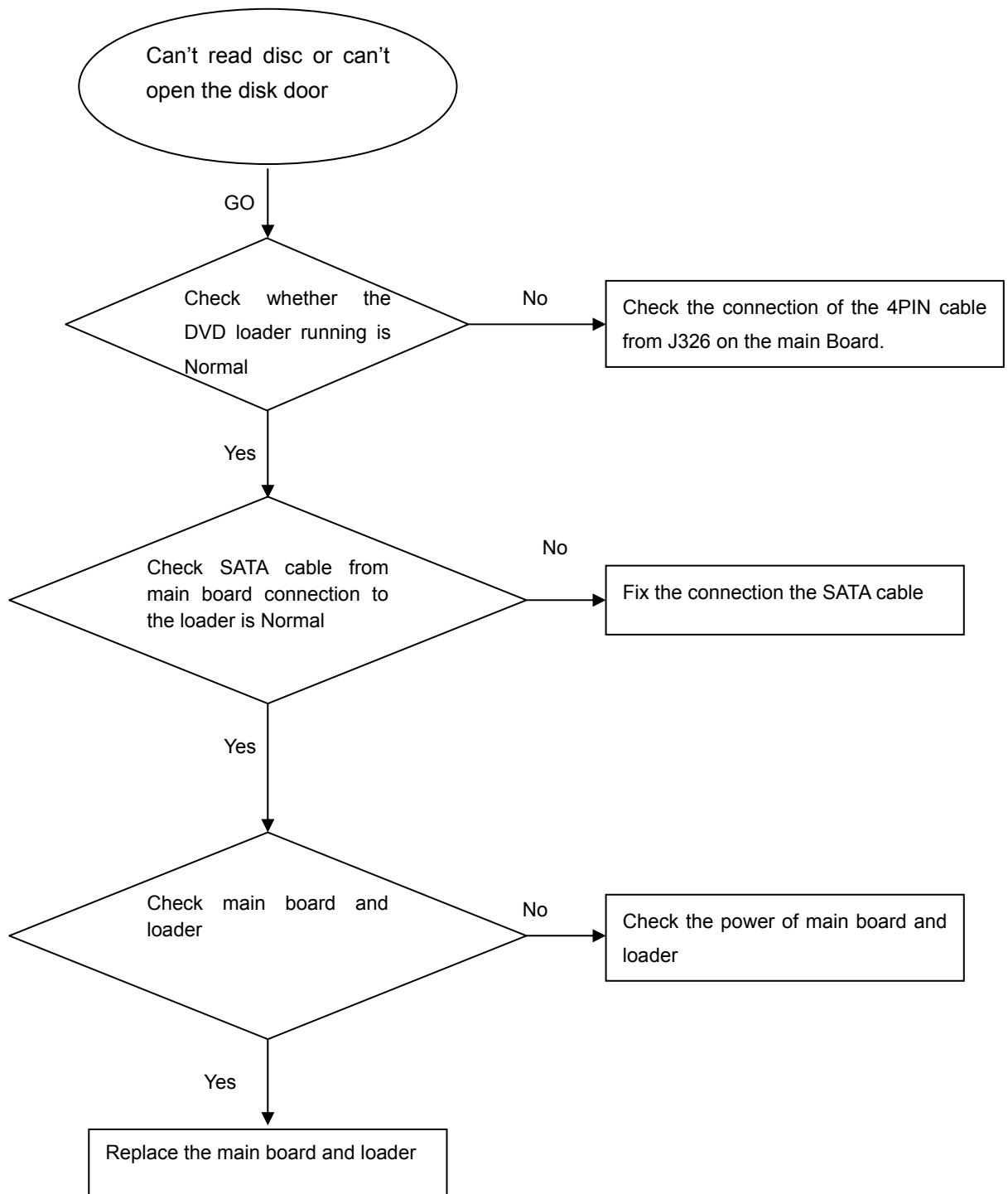
Number	Region
1211	2
1361	3
1431	4
1521	5
1641	6

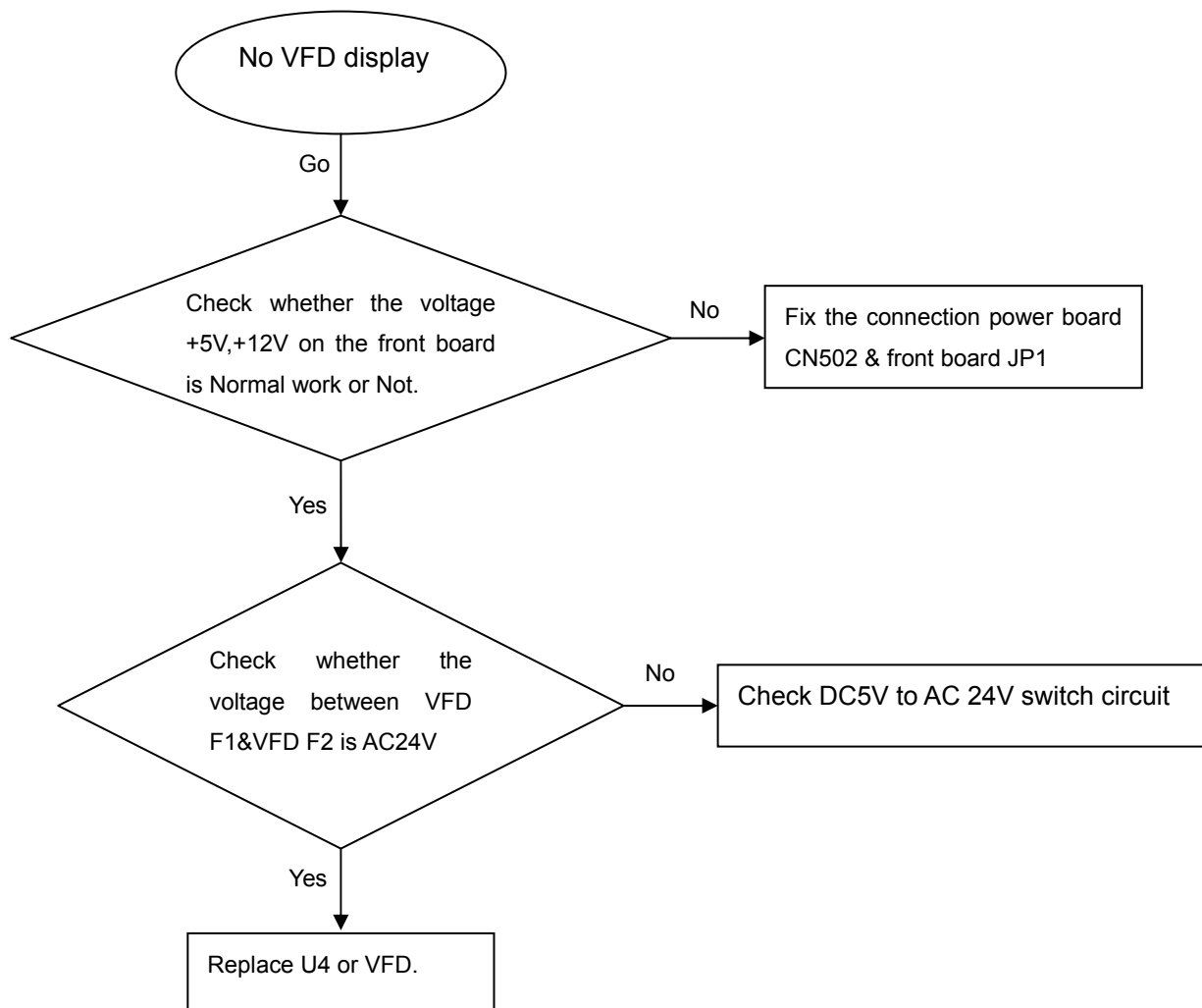
Remark: BD disc region code change only by upgrade software.

No display on VFD, and buttons do Not work

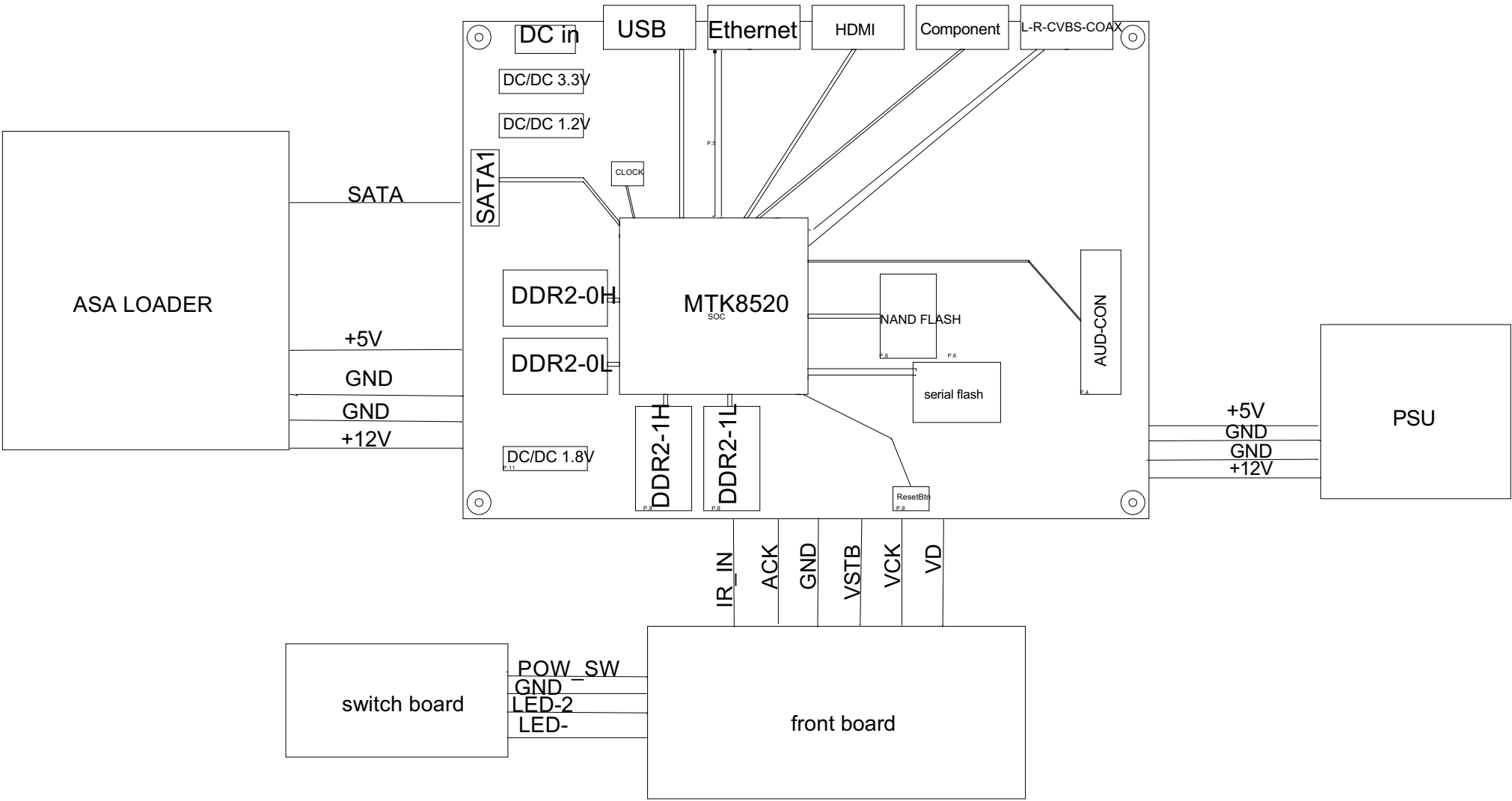
No audio output

Remote control does Not work

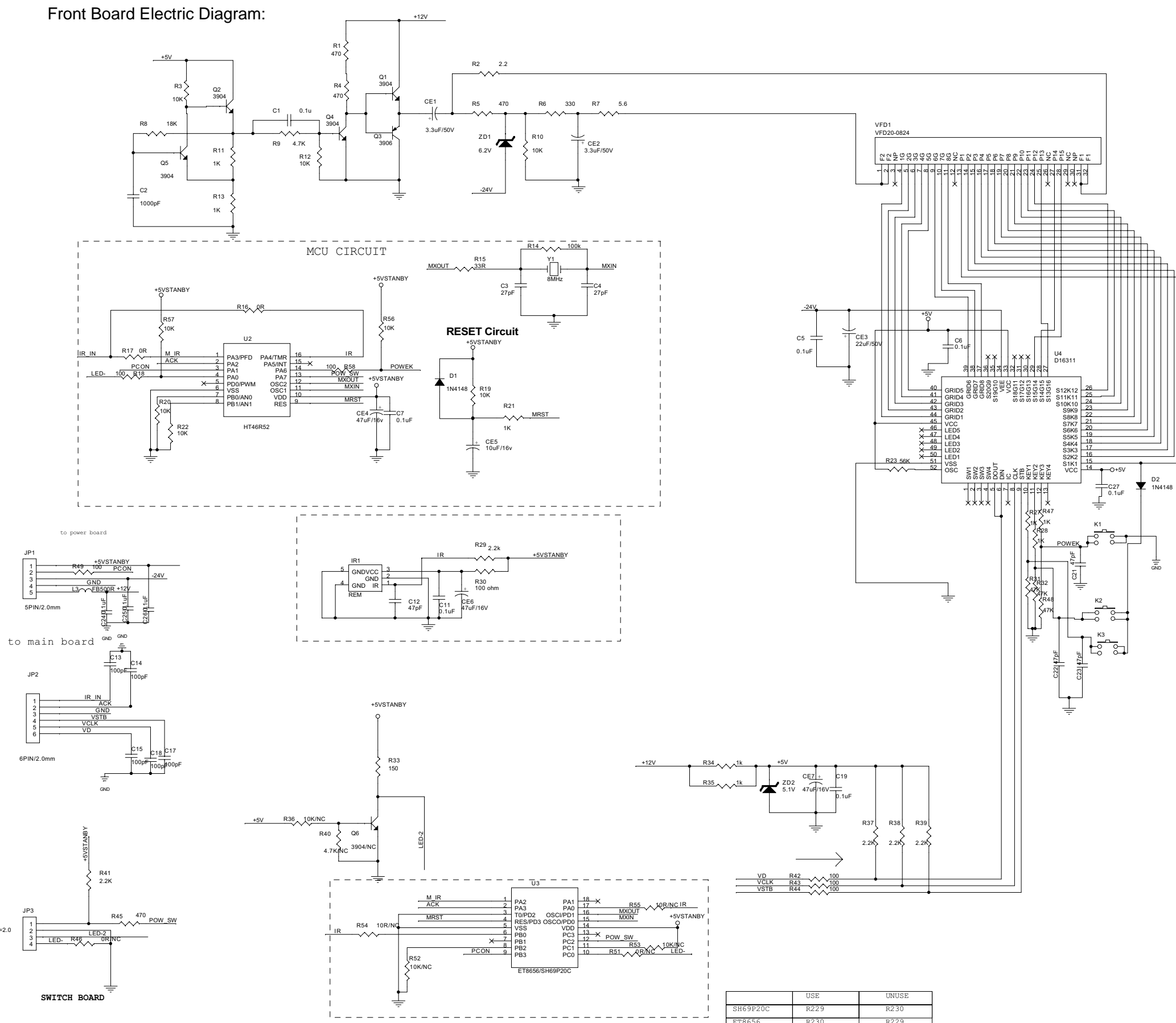
Can't read disc or can't open the disk door

No VFD display

BDP3000/BDP3008 Wiring Diagram



Front Board Electric Diagram:



	USE	UNUSE
SH69P20C	R229	R230
ET8656	R230	R229

A

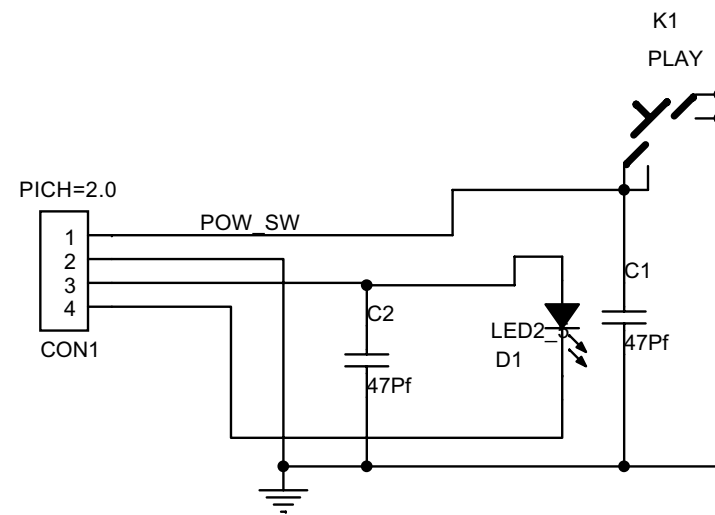
B

C

D

E

Switch Board Electric Diagram:



SWITCH BOARD

1

2

3

4

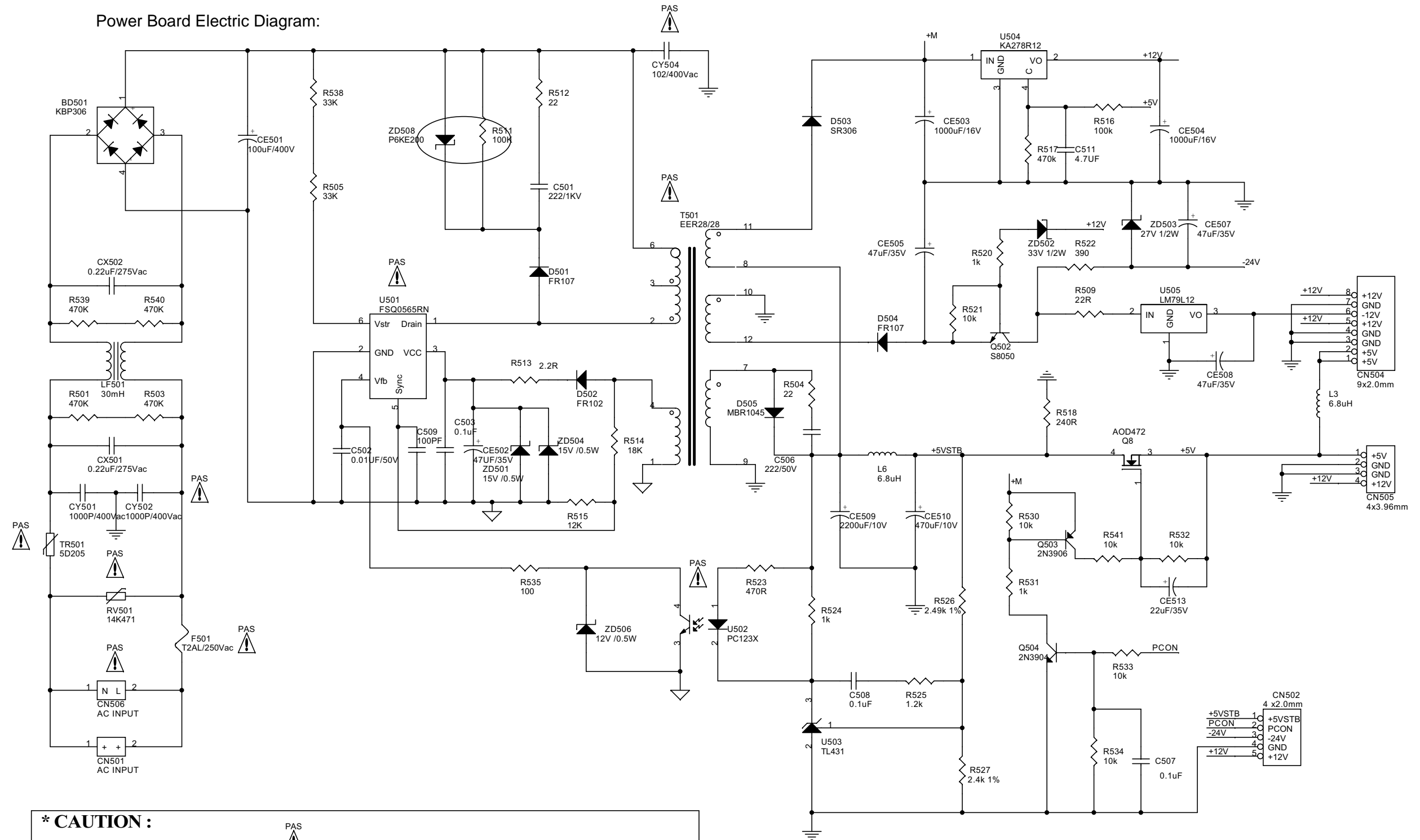
A


B

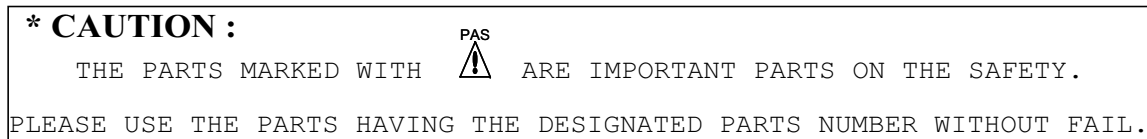
C

D

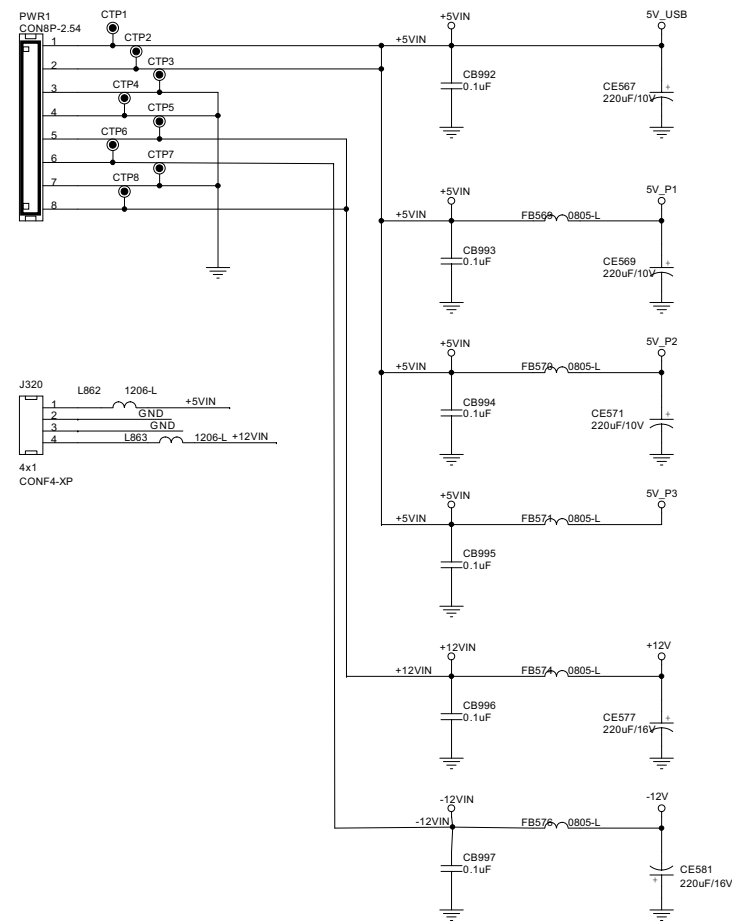
E



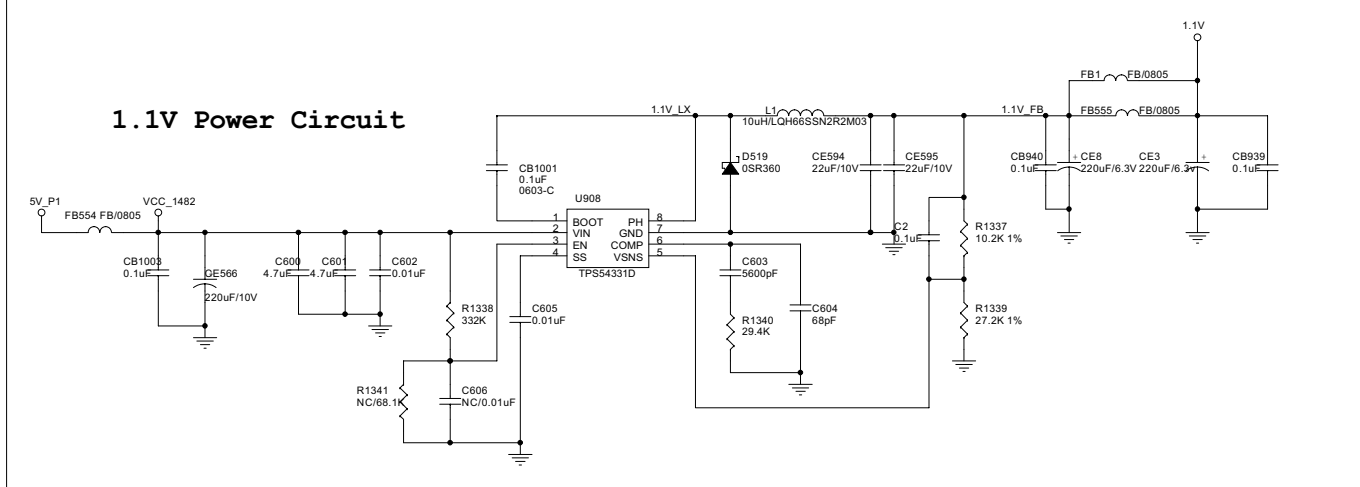
THE PARTS MARKED WITH  ARE IMPORTANT PARTS ON THE SAFETY.
PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBER WITHOUT FAIL.



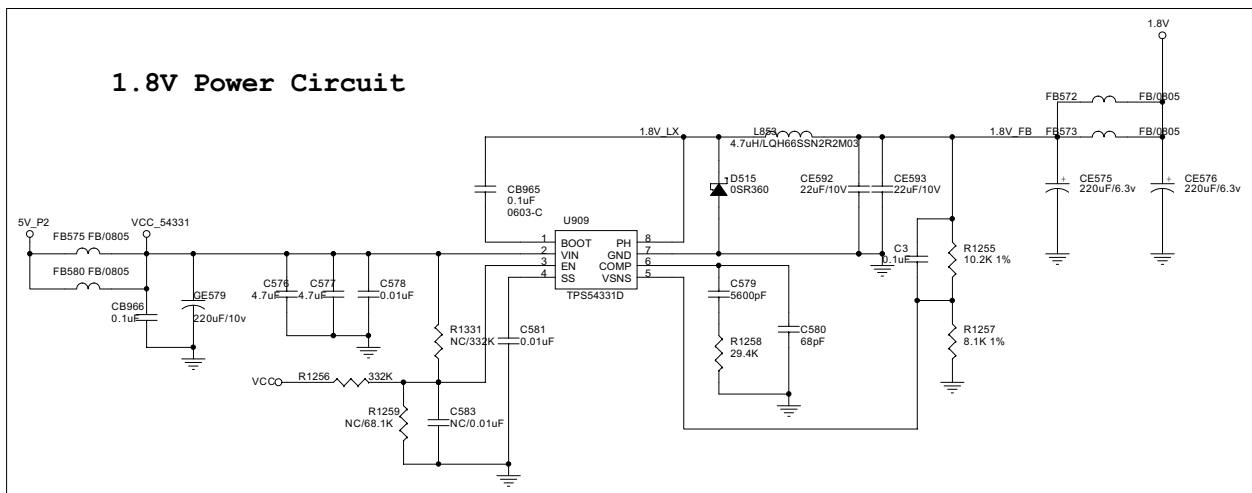
Main Board Electric Diagram: Power



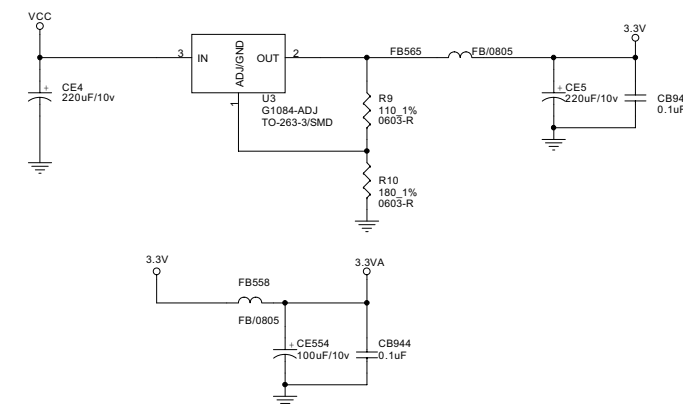
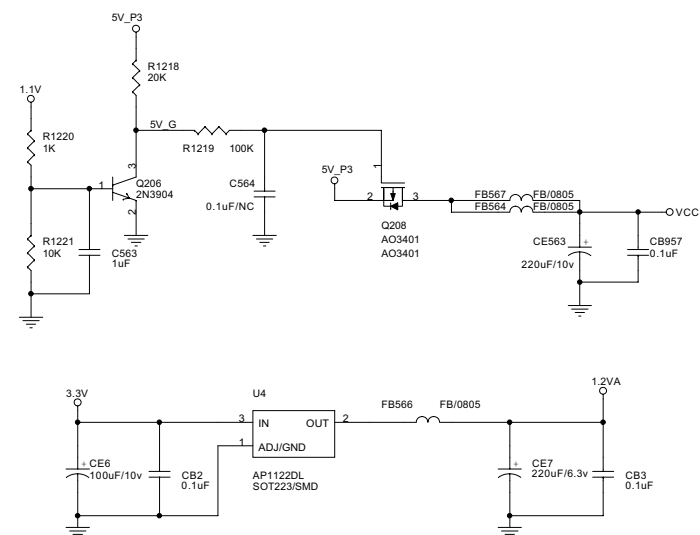
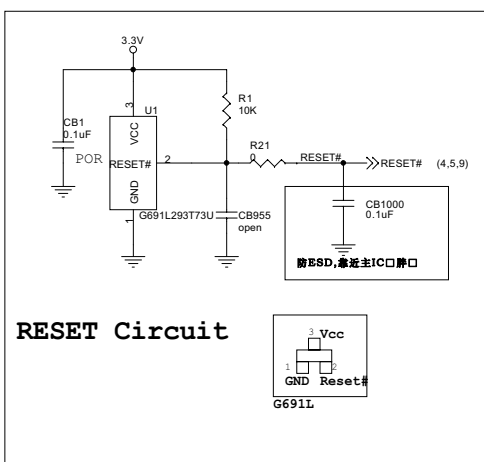
1.1V Power Circuit



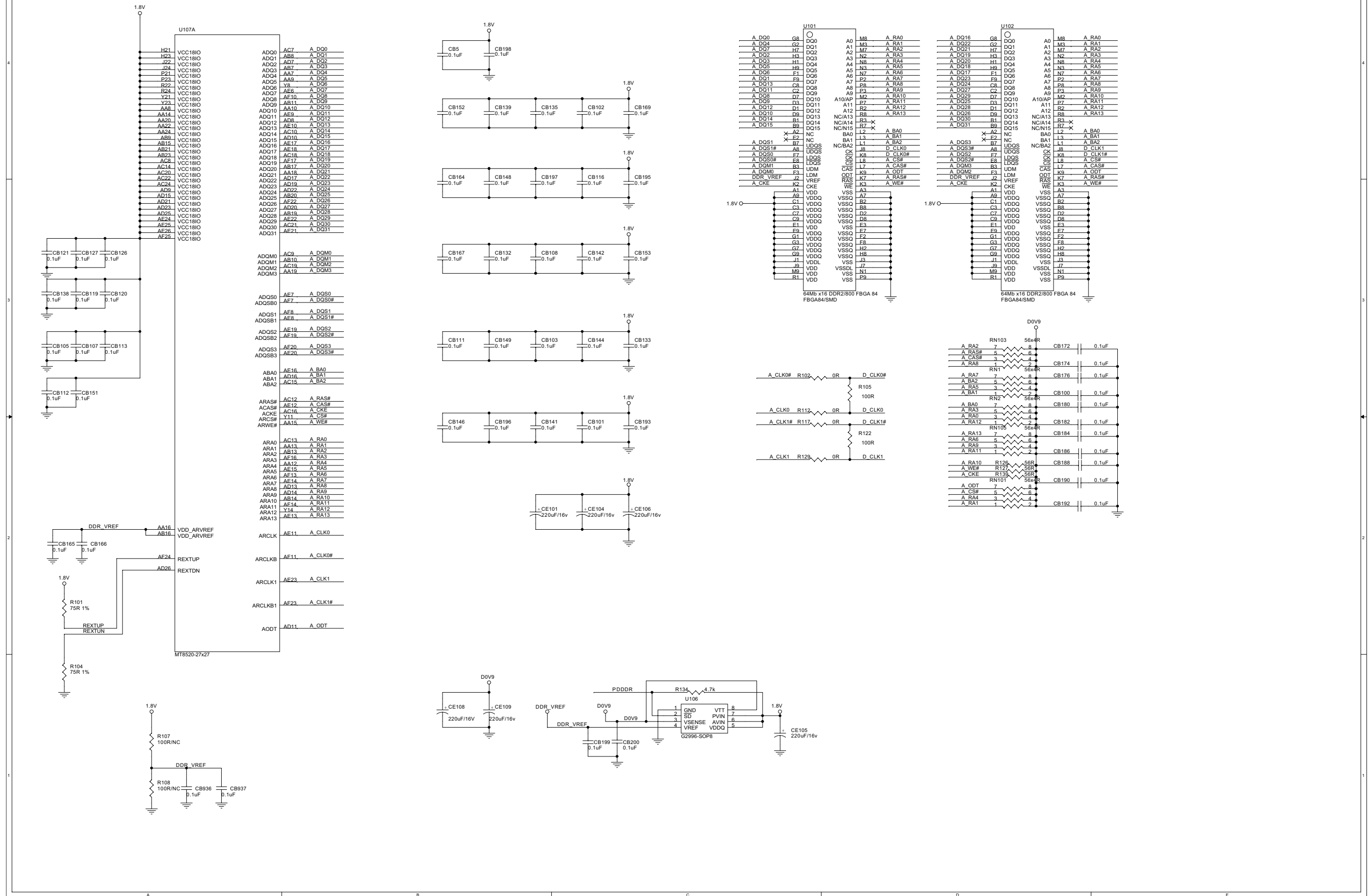
1.8V Power Circuit

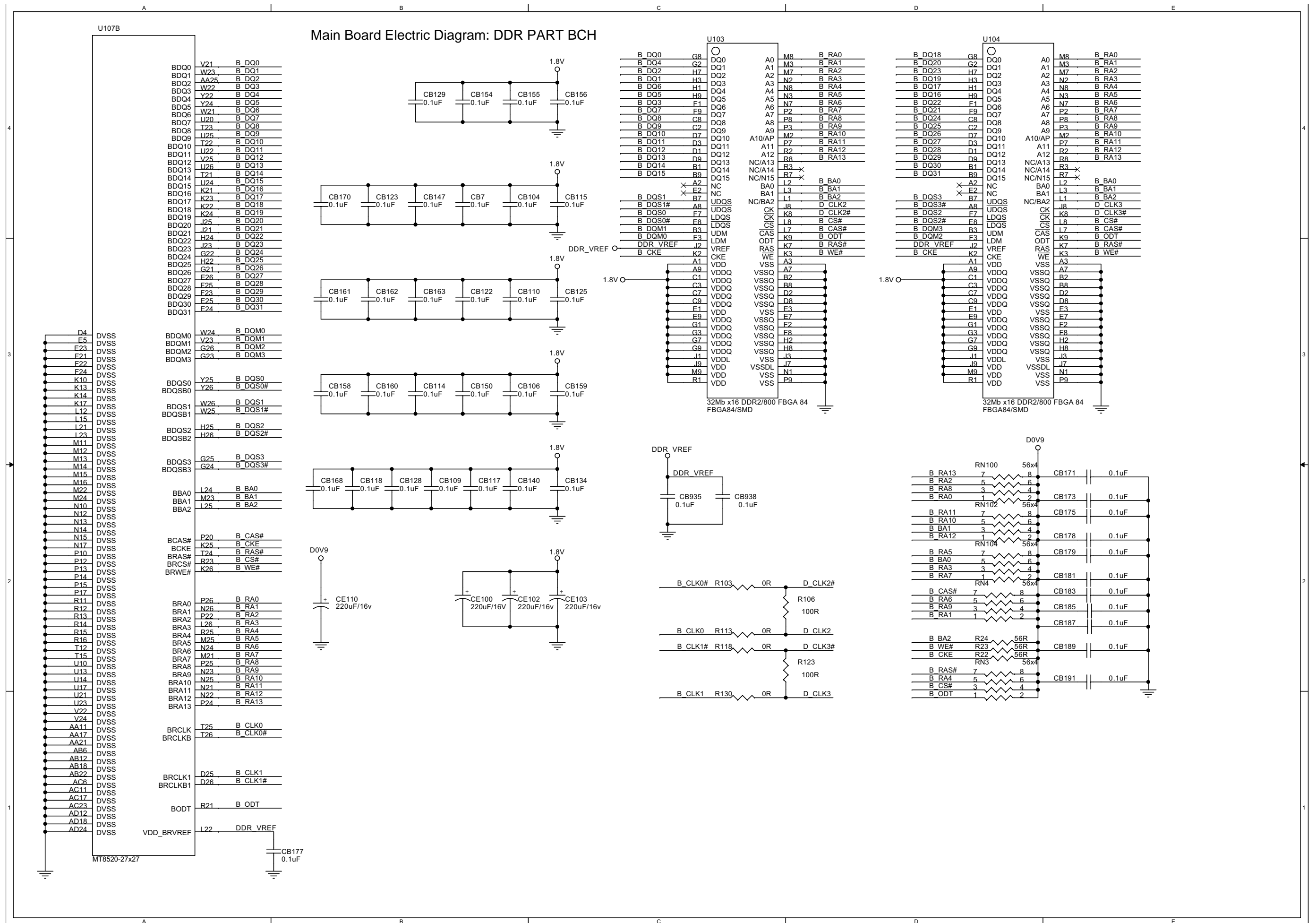


RESET Circuit

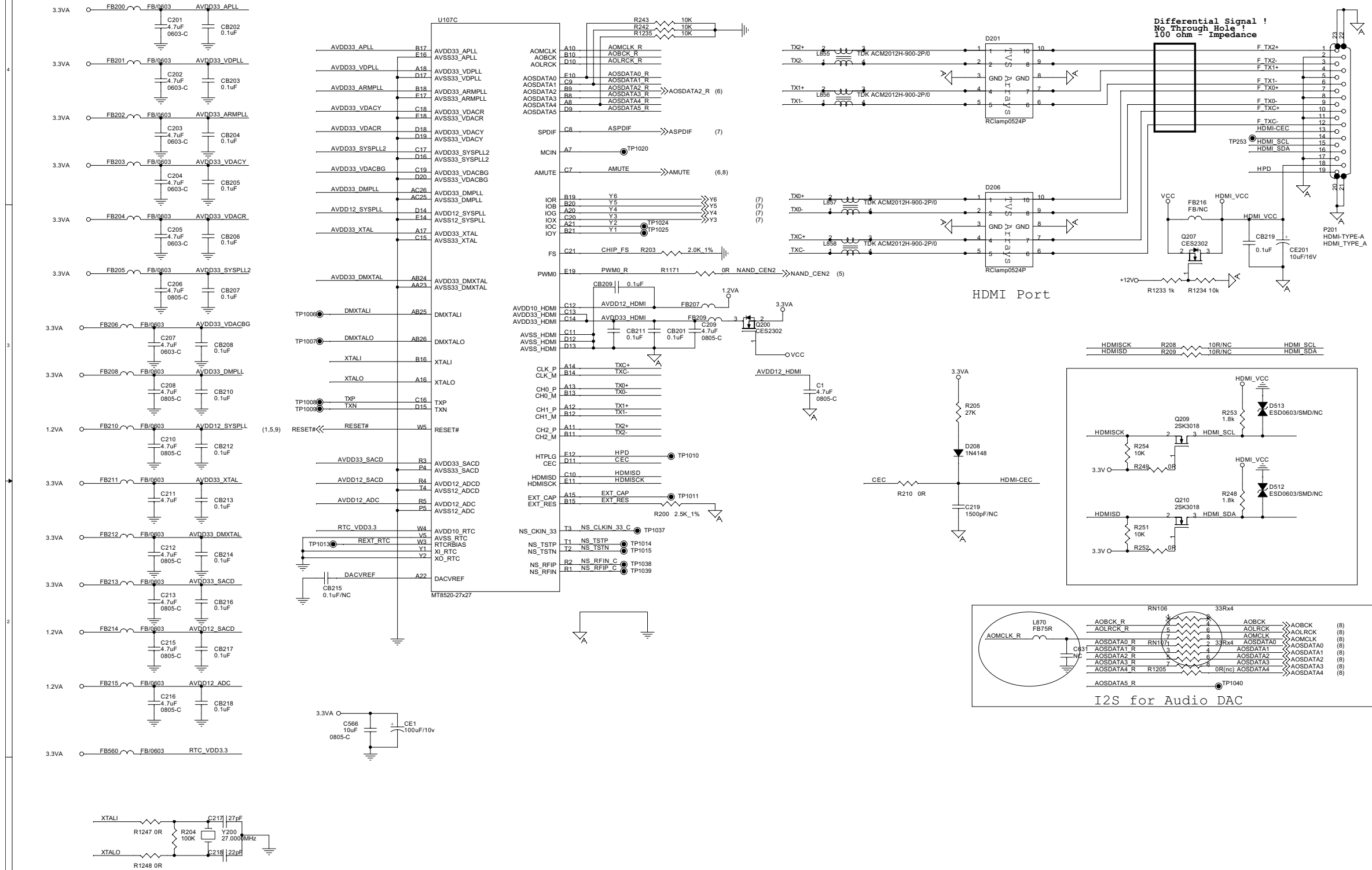


Main Board Electric Diagram: DDR PART ACH

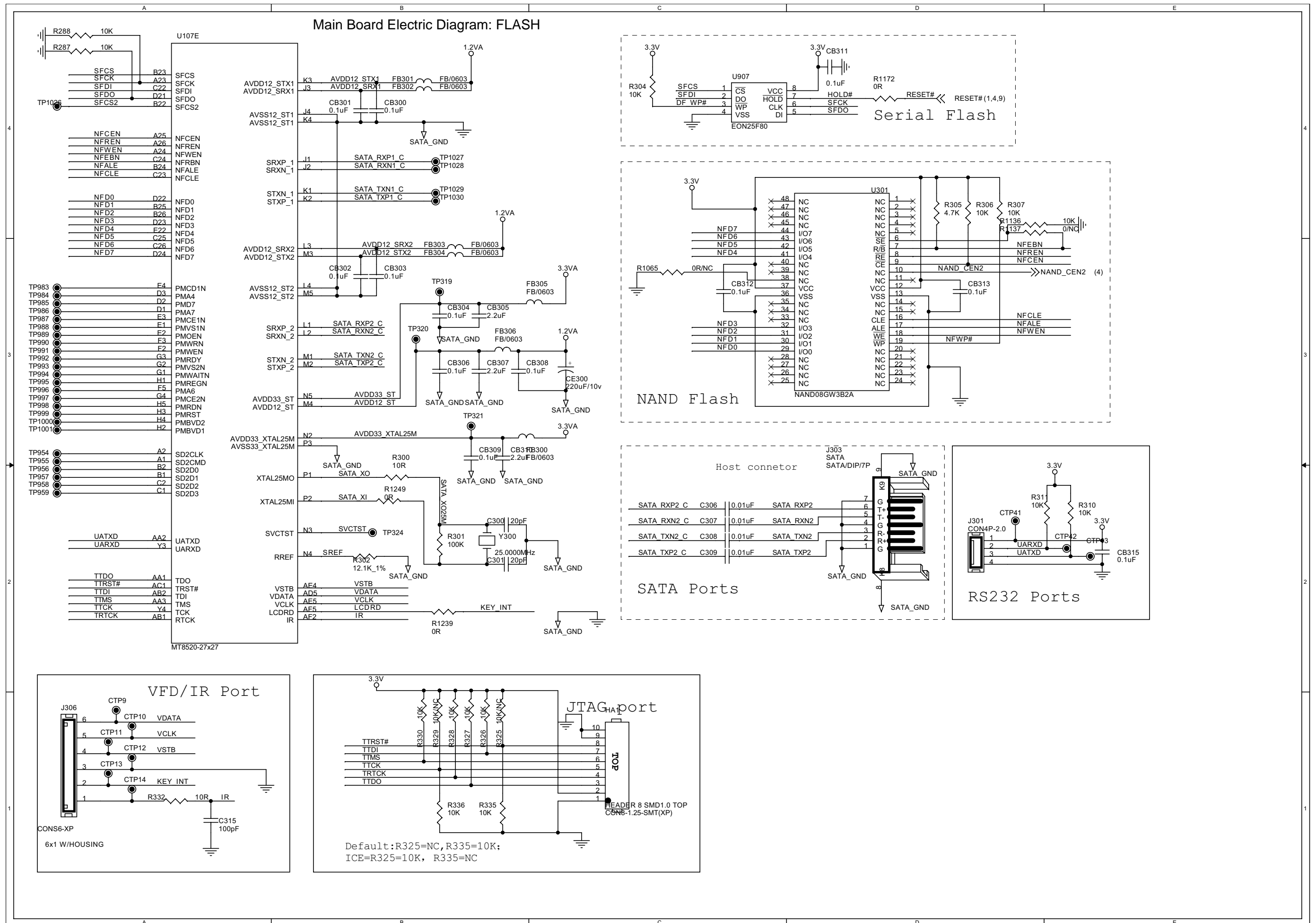




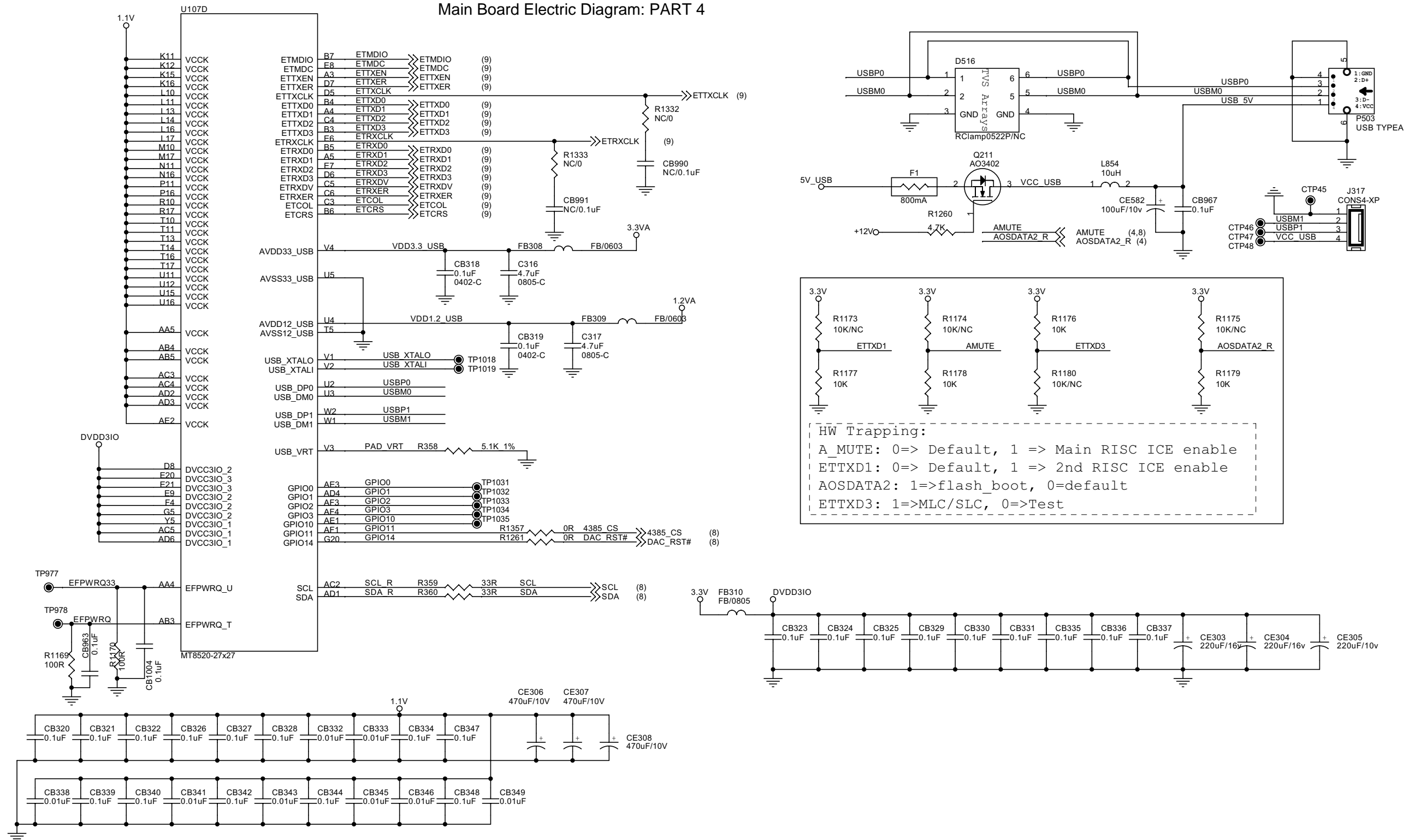
Main Board Electric Diagram: AV OUTPUT



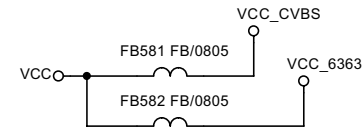
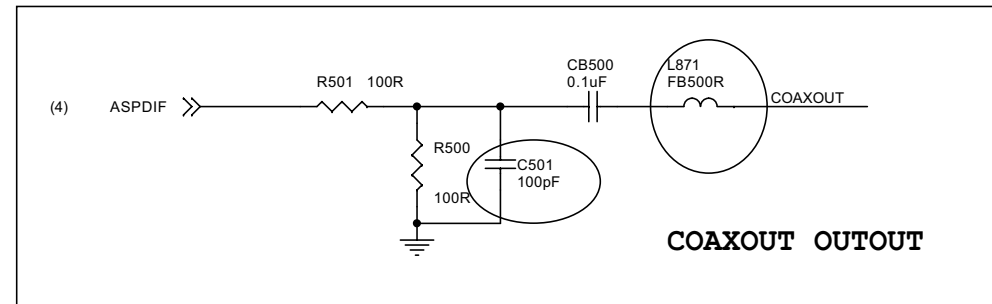
Main Board Electric Diagram: FLASH



Main Board Electric Diagram: PART 4



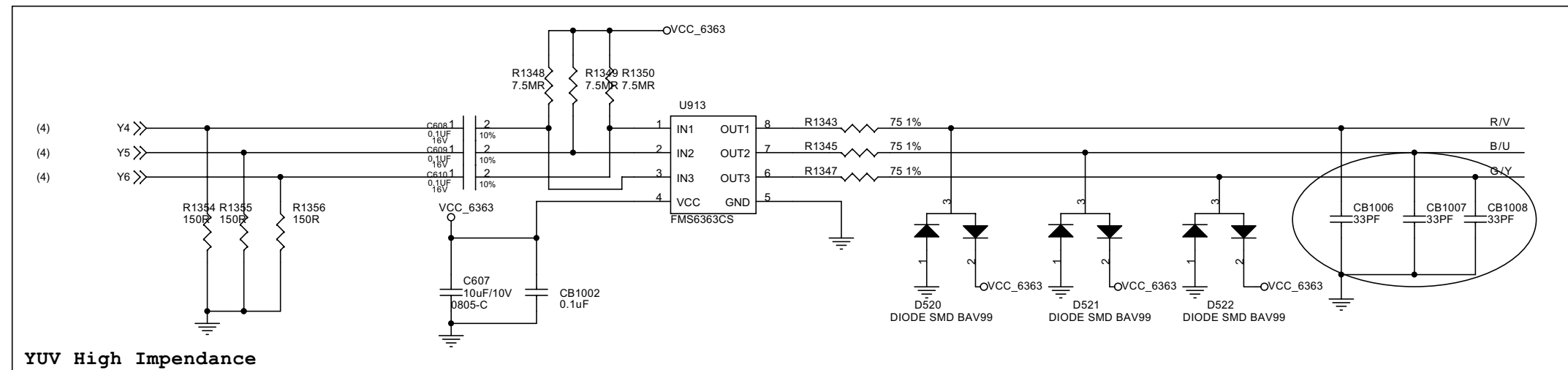
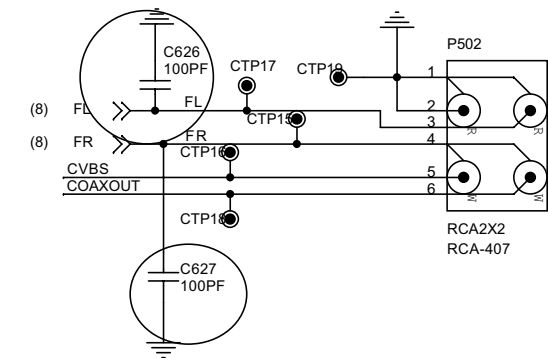
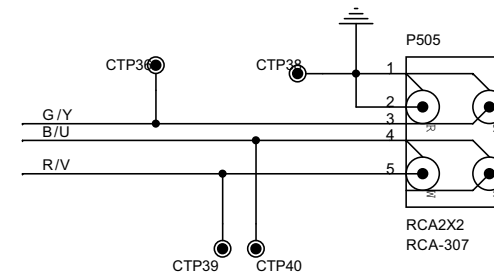
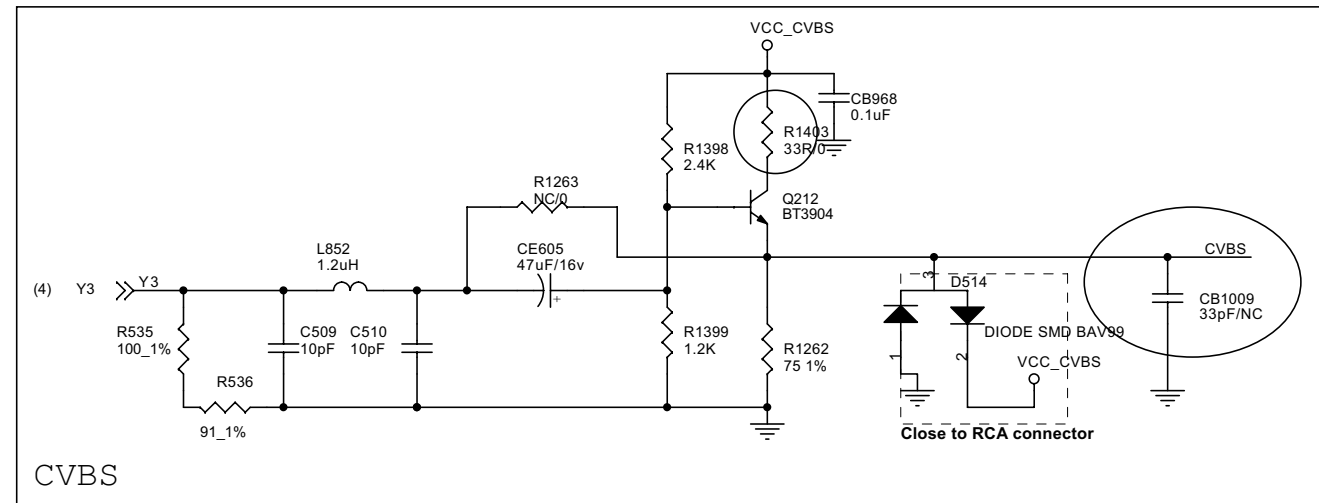
Main Board Electric Diagram: VIDEO OUTPUT & SPDIF OUTPUT



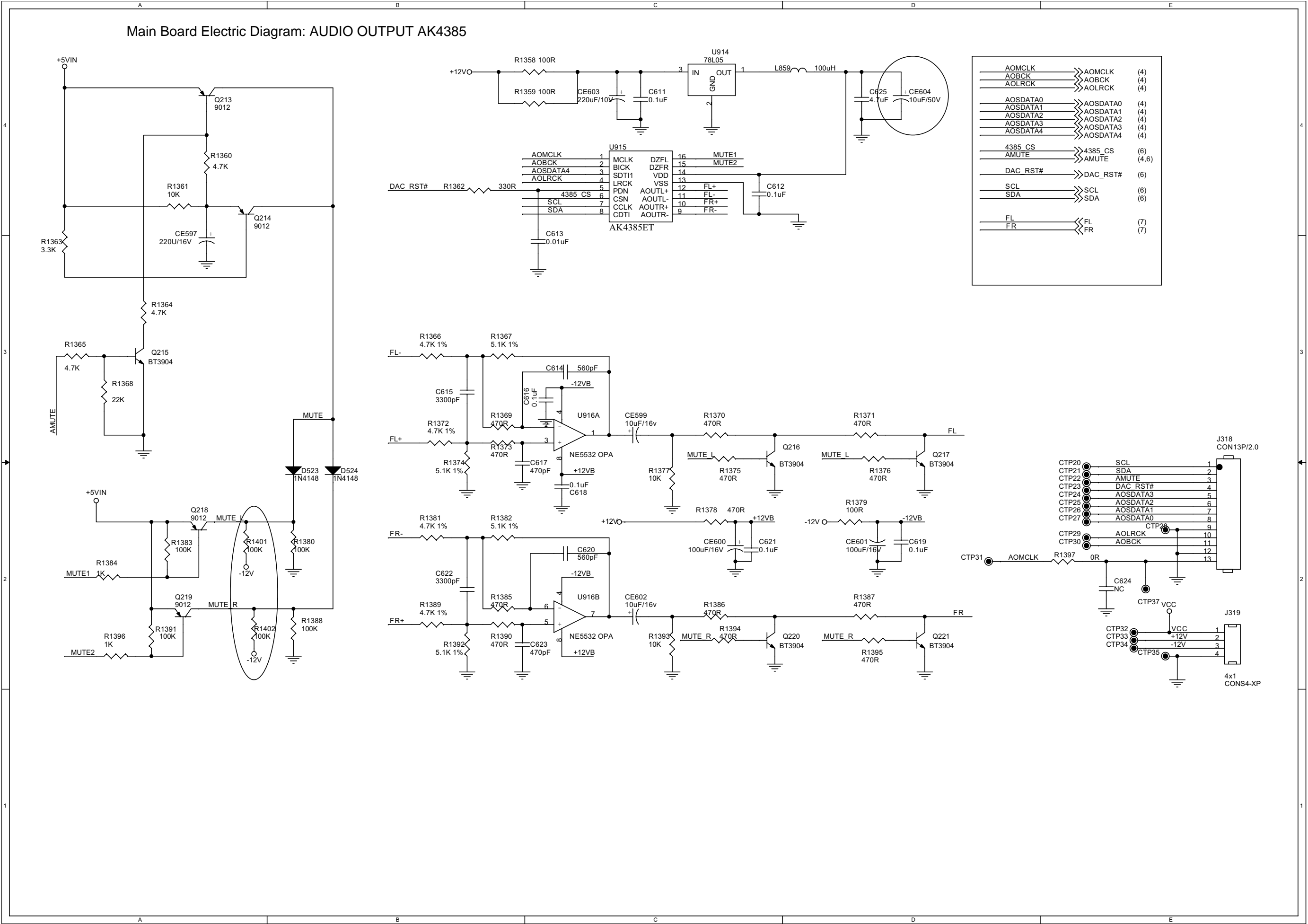
Low Impedance 低阻抗 circuit with Real Line

Hight Impedance: High Impedance circuit with Broken Line

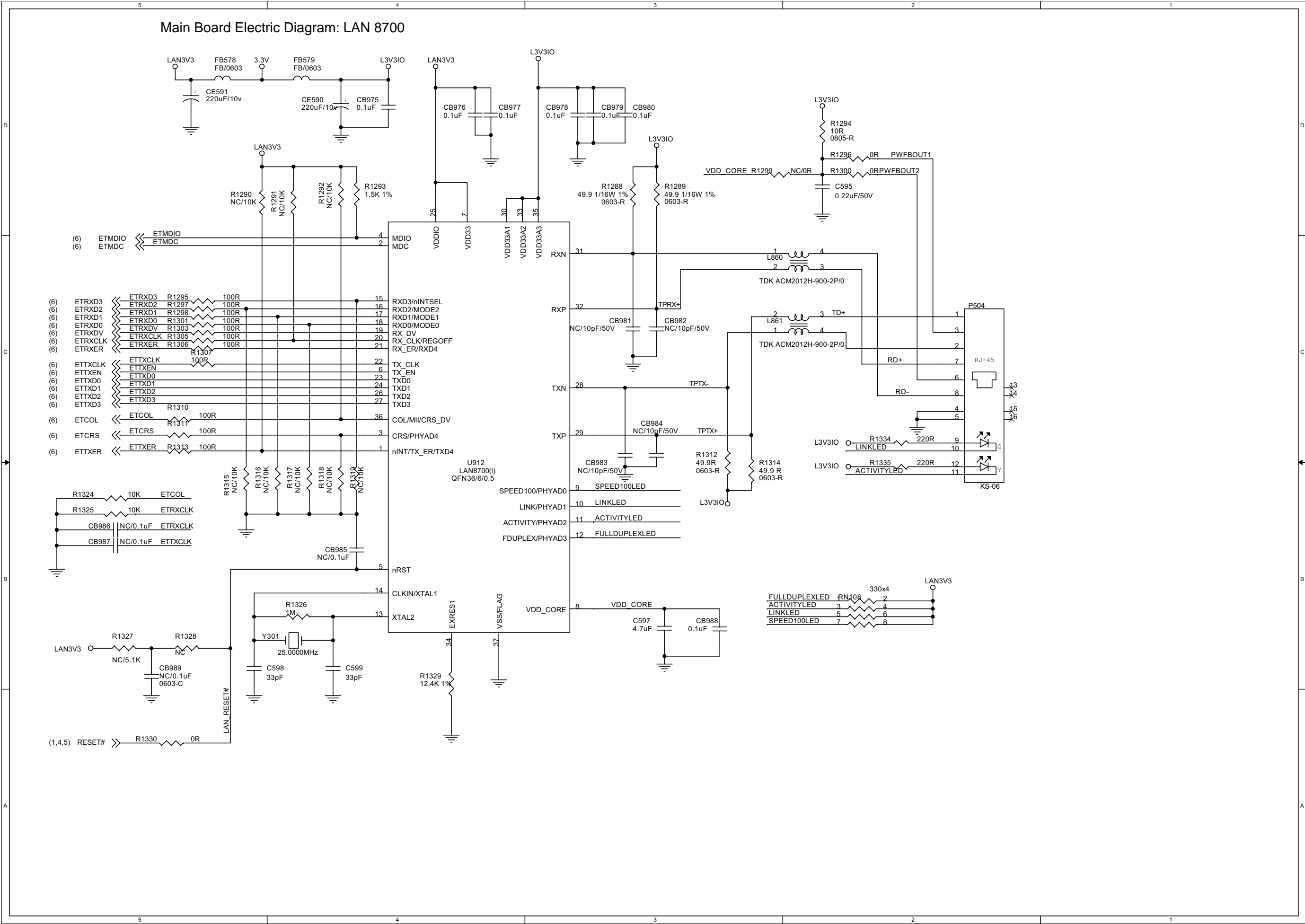
Related PCB is match to SCH, but no high Impedance circuit in Broken Line



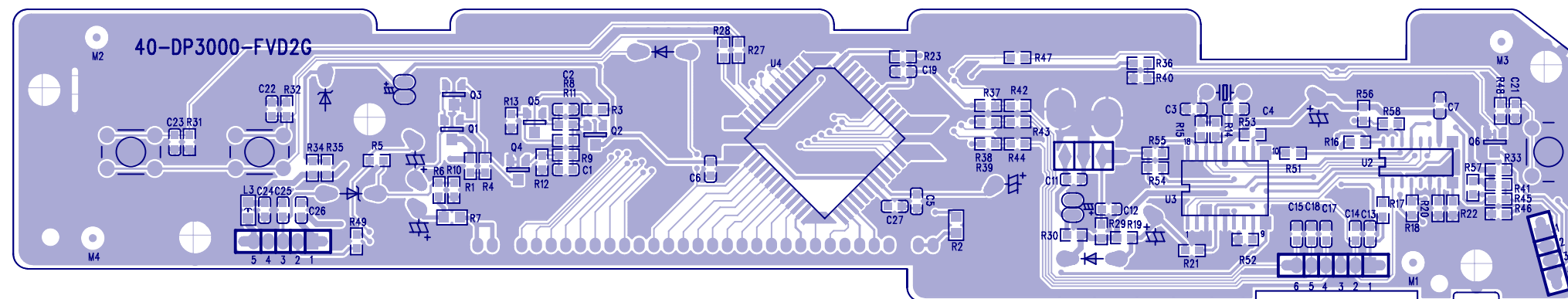
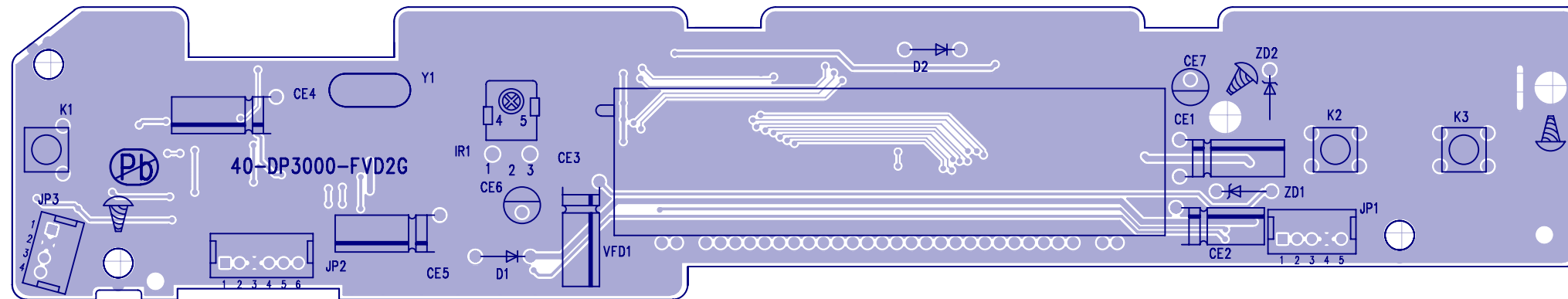
Main Board Electric Diagram: AUDIO OUTPUT AK4385



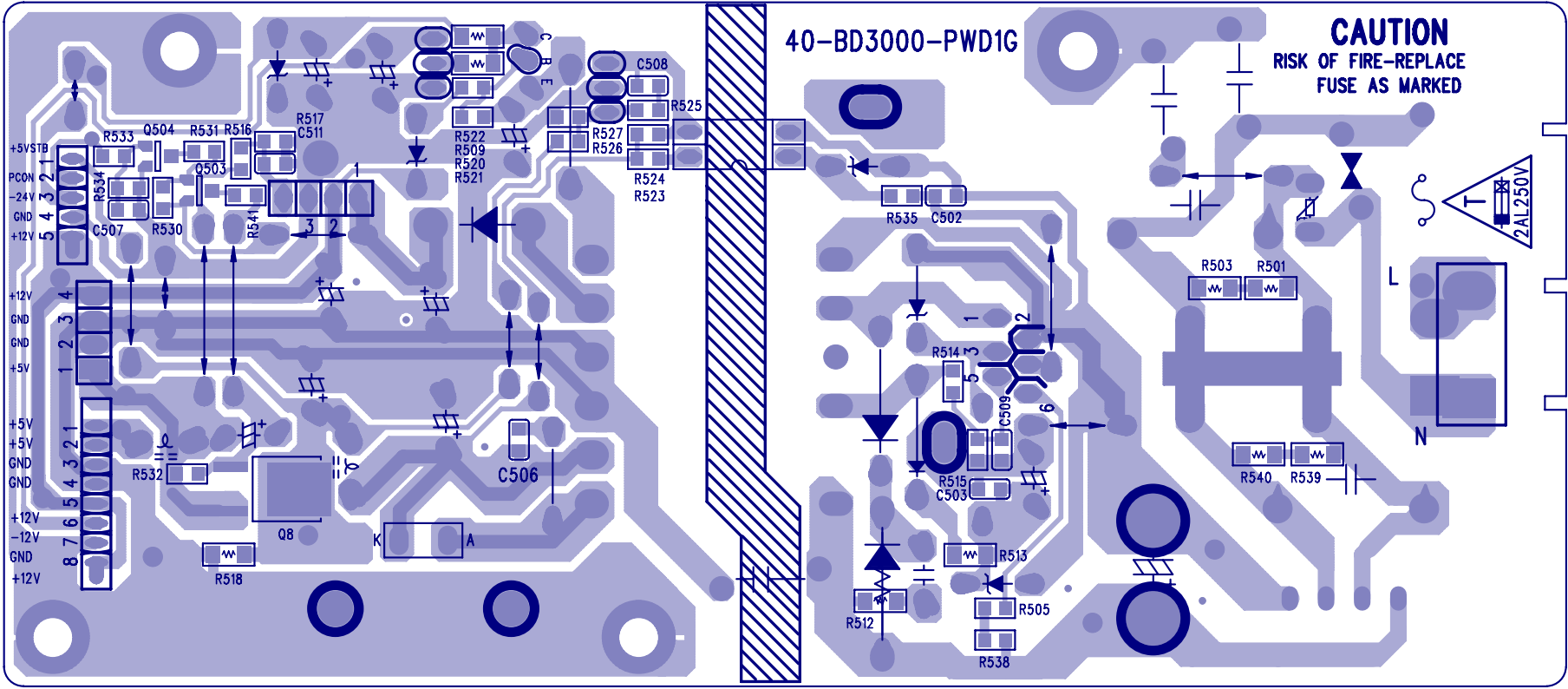
Main Board Electric Diagram: LAN 8700



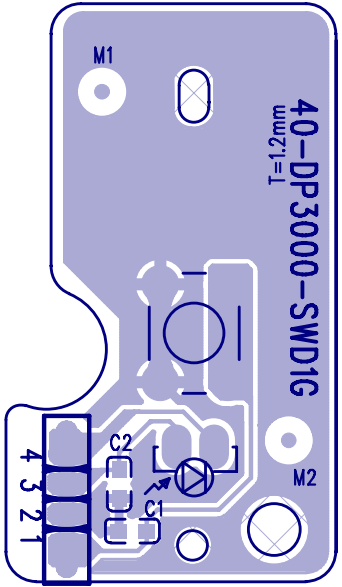
Front Board Print-layout (Top and Bottom side):



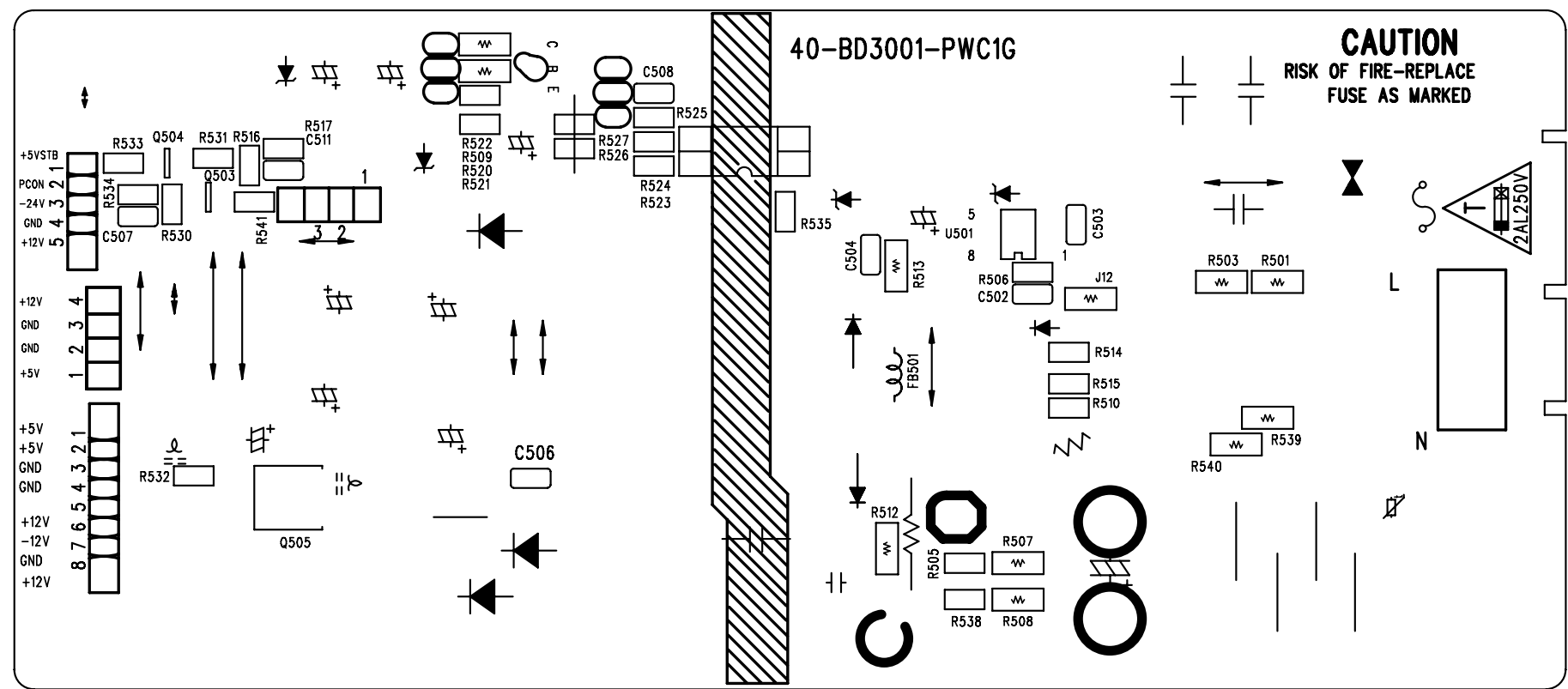
Power Board Print-layout (Bottom side):



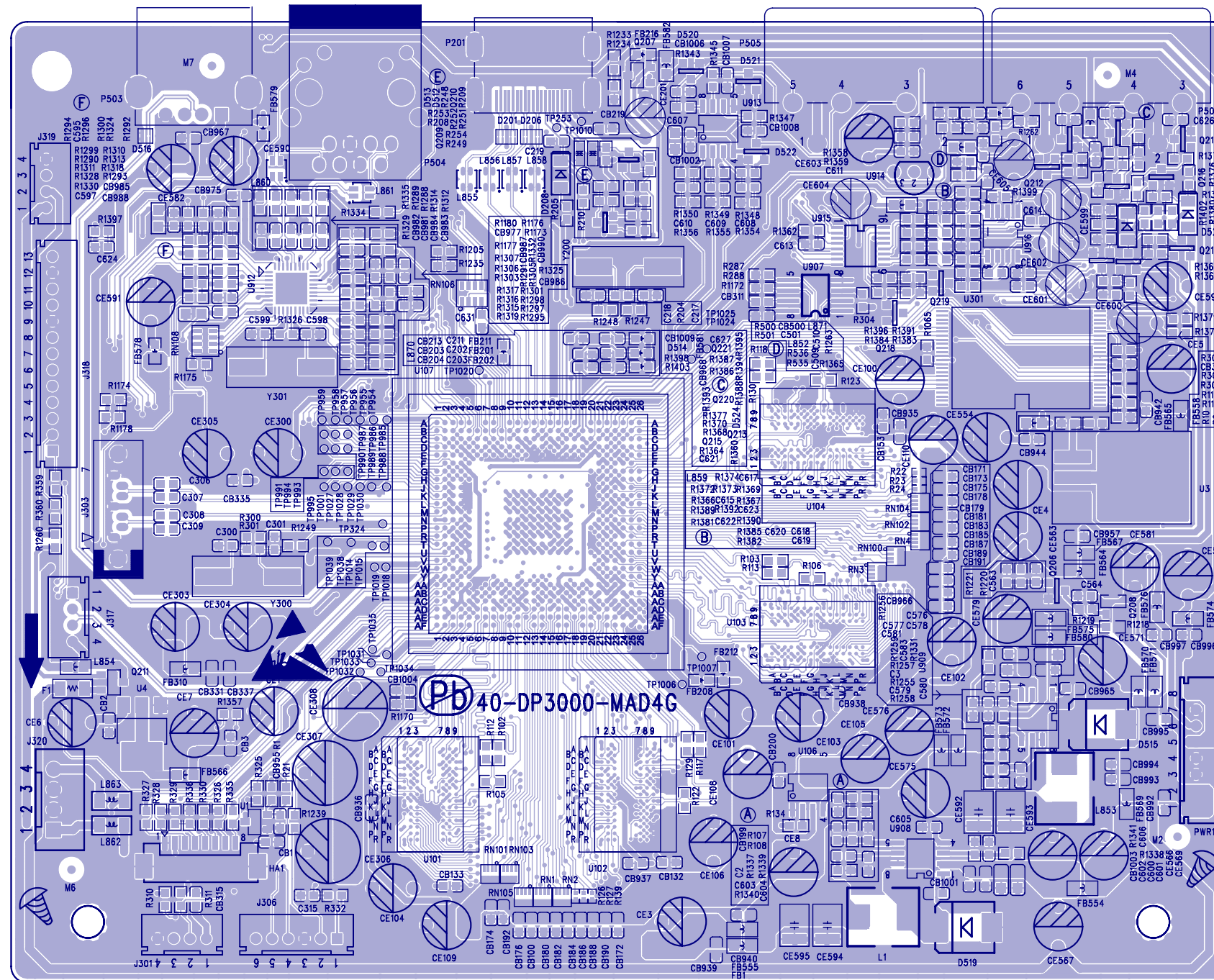
Switch Board Print-layout (Bottom side):



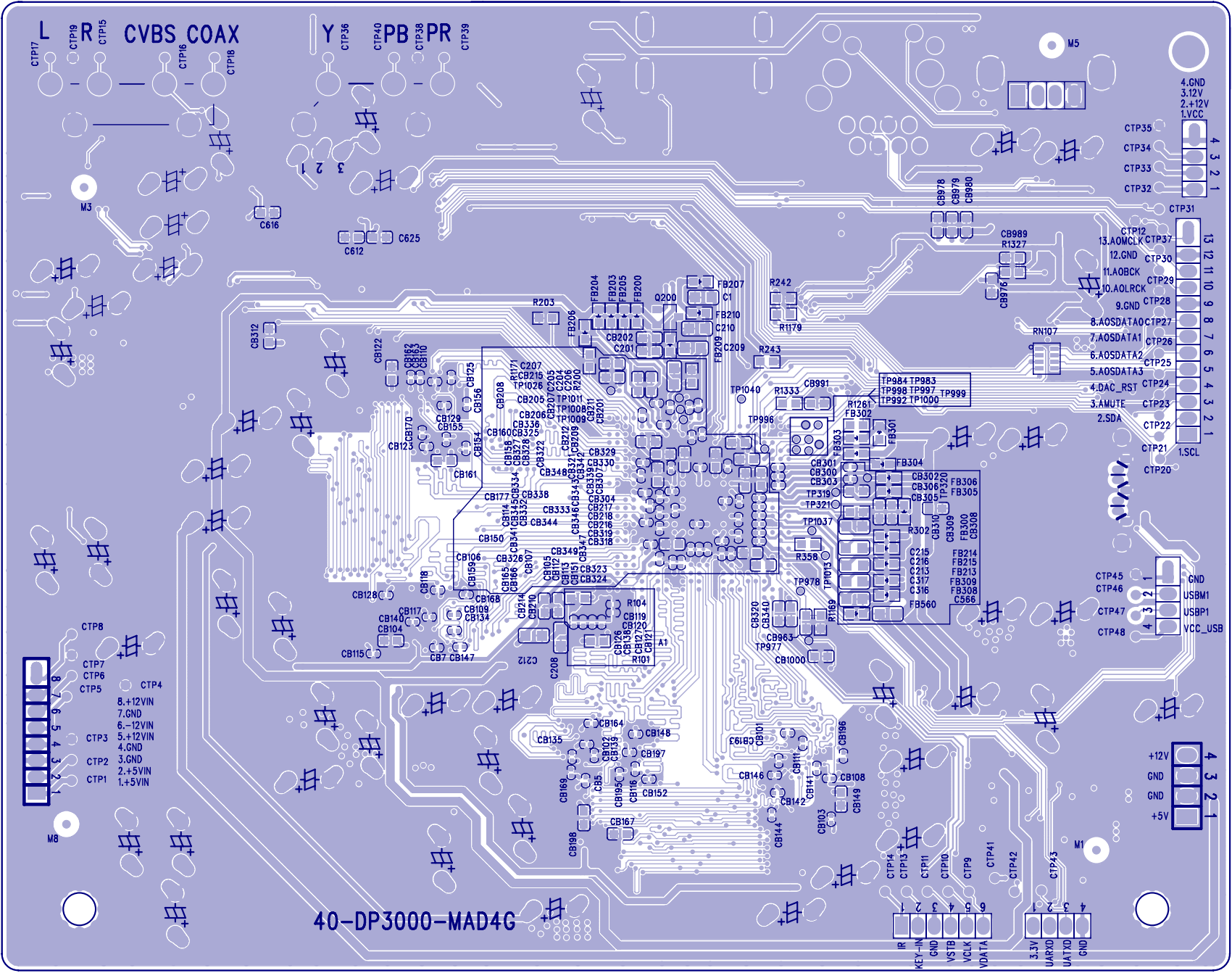
Power Board Print-layout for BDP3000/93 (Bottom side):



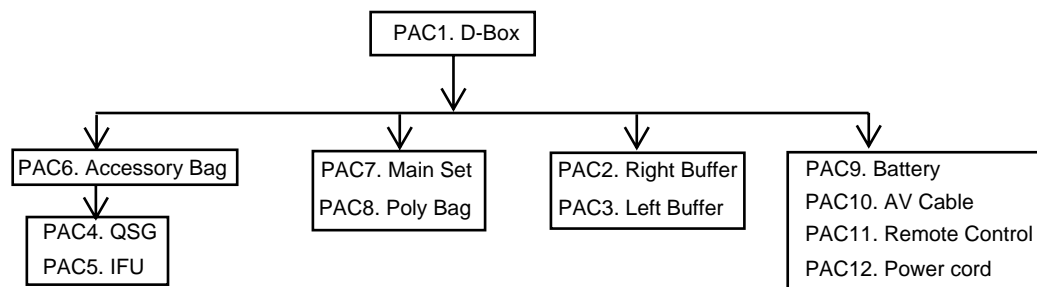
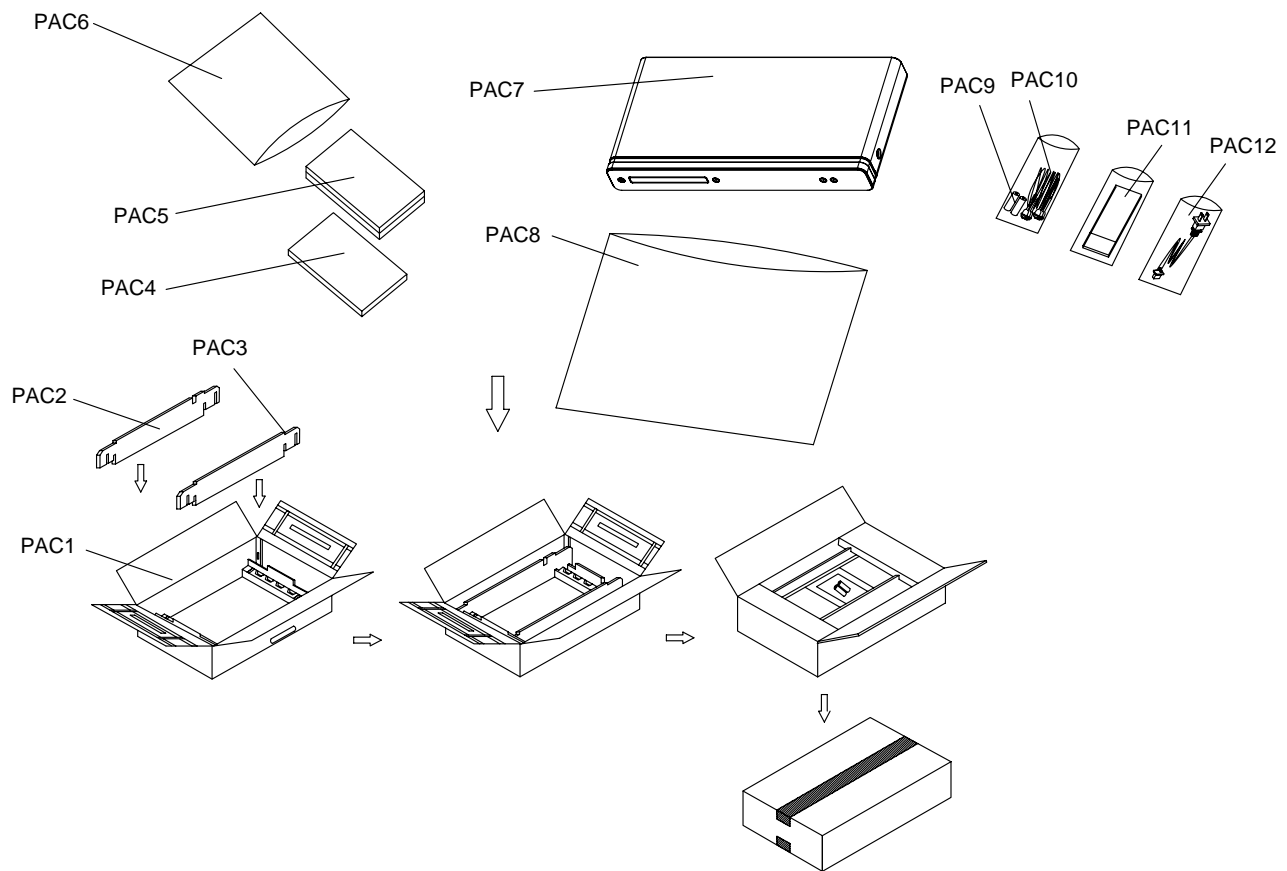
Main Board Print-layout (Top side):



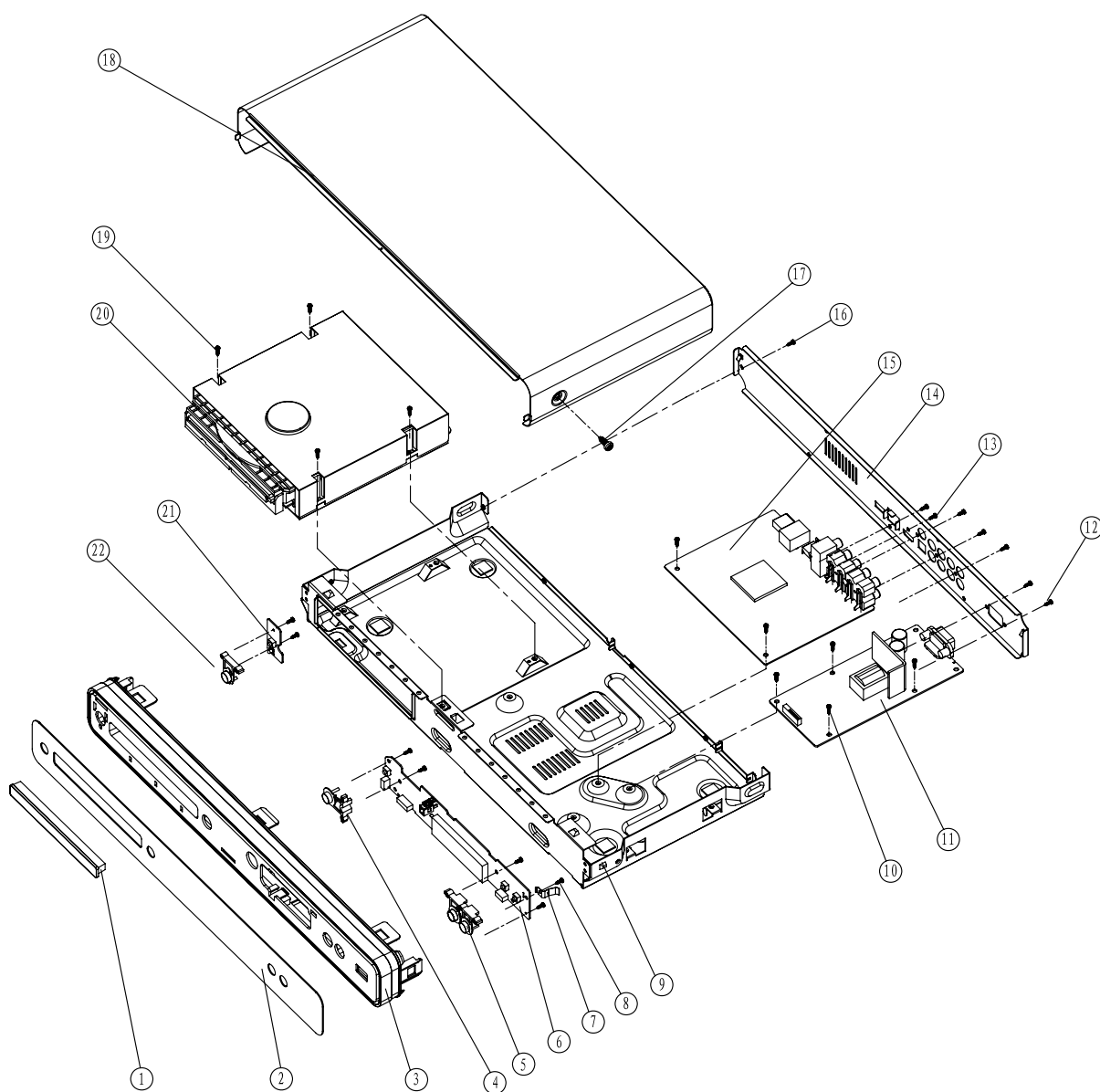
Main Board Print-layout (Bottom side):



Exploded view for BDP3000/93:



Exploded View for BDP3000 & BDP3008:



It's a general mechanical exploded view for BDP3000/3008, pls refer to the model set for detailed information.
ASSY 1 includes components:2.3.4.5.22

BDP3000/55, BDP3000X/78 SERVICE PARTLIST

ELECTRICAL PARTLIST

No	12NC No.	Description	Q'ty
15	996510031446	ASSY-MAIN BOARD	1
21	996510025842	ASSY-SW BOARD	1
6	996510025843	ASSY-FRONT CONTROL BOARD	1
△ 11	996510026618	ASSY-PW BD	1
20	996510025832	BLU-RAY DISC MODULE	1

ASSY-MAIN BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
D201	996510026638	4-CHANNEL ESD SOLUTION	1
D206	996510026638	4-CHANNEL ESD SOLUTION	1
D512	996510026617	IC PGB1010603	1
D513	996510026617	IC PGB1010603	1
D514	319801010620	DIO SIG SM BAV99 (COL) R	1
D515	319801010650	DIO REC SS34 COL R	1
D519	319801010650	DIO REC SS34 COL R	1
D520	319801010620	DIO SIG SM BAV99 (COL) R	1
D521	319801010620	DIO SIG SM BAV99 (COL) R	1
D522	319801010620	DIO SIG SM BAV99 (COL) R	1
Q200	996510026641	N-channel MOSFET AO3414	1
Q206	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q207	996510026641	N-channel MOSFET AO3414	1
Q208	996510026631	MOSFET AO3401	1
Q209	996510009769	N Channel MOSFET 2SK3108	1
Q210	996510009769	N Channel MOSFET 2SK3108	1
Q211	996510010949	MOSFET AO3402	1
Q212	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q213	996510009670	TRANSISTOR SMT 3CG9012M	1
Q214	996510009670	TRANSISTOR SMT 3CG9012M	1
Q215	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q216	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q217	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q218	996510009670	TRANSISTOR SMT 3CG9012M	1
Q219	996510009670	TRANSISTOR SMT 3CG9012M	1
Q220	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q221	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
U1	996510026642	IC G691L2	1
U101	996510026646	1Gb DDR2 SDRAM	1
U102	996510026646	1Gb DDR2 SDRAM	1
U103	996510026623	512Mb DDR2 SDRAM	1
U104	996510026623	512Mb DDR2 SDRAM	1
U106	996510026643	IC G2996	1
U107	996510026635	BD/DTV DECODER MT8520	1
U3	996510026622	5A REGULATOR	1
U301	996510031444	FLASH IC 1Gbit NAND	1
U4	996510026645	1A POSITIVE REGULATOR	1
U907	996510031462	IC 8M BIT SERIAL FLASH /55	1
U908	996510026616	DC-DC 3A TPS54331	1
U909	996510026616	DC-DC 3A TPS54331	1
U912	996510026636	15kV ESD Protected IC	1
U913	996510026634	VICLEU FILTER	1
U914	996510026625	IC 78L050	1
U915	996510026652	IC 4385DA DAC	1
U916	996510010924	Dual operational amplifier	1
Y200	996510026628	CRYSTAL 27MHZ	1
Y300	996510026621	CRYSTAL 25MHZ	1
Y301	996510026621	CRYSTAL 25MHZ	1

ASSY-FRONT CONTROL BOARD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
IR1	996510026624	IR RECEIVER MODULE2.7-5.5V12mm	1
U2	996510026644	HT48R06A-1 OPT MCU	1
U4	996510026614	ETEK16311 VFD DRIVE IC	1
VFD	996510026633	VFD DISPLAY	1

ASSY-POWER BOARD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
BD501	996510026648	RECTIFIER BRIDGE KBP306G	1
D501	996510013568	DIODE FR107	1
D502	996500014043	DIODE FR102 (FAST RECOVERY)	1
D503	996510028905	SILICON COMMUTATION DIODE	1
D504	996510013568	DIODE FR107	1
D505	996510026632	DIODE RF1045S7	1
L3	996500032509	COIL SL0811-6R8K2R4	1
L6	996500032509	COIL SL0811-6R8K2R4	1
LF501	996510026639	COMMON INDUCTANCE	1
△ T501	996510026626	TRANSFORMER	1
U501	996510026649	IC FSQ0565R	1
U502	996500024838	PC123X9YFZ	1
U503	996500014609	IC AM431LP	1
U504	996500032514	IC KA278R12	1
U505	996510026629	IC L79L12ACZ	1
ZD501	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD502	996500015716	DIODE ZENER 33V 1/2W 5%	1
ZD503	996510007898	DIODE ZENER 24V 1/2W 5%	1
ZD504	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD506	996510014588	DIODE ZENER 12V 1/2W 5%	1
ZD508	996510026651	DIODE P6KE200A	1

MECHANICAL PARTLIST

No	12NC No.	Description	Q'ty
1	996510025851	CD DOOR	1
△ 14	996510026647	BACK PLATE	1
18	996510025849	TOP COVER	1
△ 9	996510025846	BOTTOM PLATE	1
AVCABLE	996500020384	AUDIO/VIDEO CABLE 1	1
Assy1	996510025838	ASSY-FRONT PANEL	1
CN504	996510025841	8P CABLE SAN-8P P2.0 L130	1
J303	996510025852	4PIN CABLE TJC3-4Y*2	1
JP1	996510025834	CABLE 5P 130MM FH-JC20	1
JP2	996510025847	CABLE 6P 120MM FH-JC20	1
JP3	996510025844	4P CABLE 180MM	1
PAD	996510025837	SPONGE PAD	4
△ POWERCORD	996510001175	POWER CORD	1
RC	996510025848	REMOTE CONTROL	1
SATALINE	996510026637	SATA CABLE	1
SHIELDBOARD	996510025833	SHIELD BOARD	1
SPONGE	996510026627	SPONGE	1
TWISTTIE	996510026143	TWIST TIE NY66	1

Screws List

No	12NC No.	Description	Q'ty
8	—	S/T SCREW B 2.6 X 6 BF	6
10	—	TRIANGLE M/C SCREW B 3 X 6	6
12	—	S/T SCREW B 3 X 8 BF	4
13	—	M/C SCREW 3 X 6 B	1
16	—	S/T SCREW B3 X 6 BF	7
17	—	S/T SCREW B3 X 6 BF	2
19	—	S/T SCREW B 3 X 7 BF	4

BDP3000/93 SERVICE PARTLIST

ELECTRICAL PARTLIST

No	12NC No.	Description	Q'ty
15	996510031445	ASSY-MAIN BOARD	1
21	996510025842	ASSY-SW BOARD	1
6	996510025843	ASSY-FRONT CONTROL BOARD	1
▲ 11	996510027109	ASSY-POWER BOARD	1
20	996510025832	BLU-RAY DISC MODULE	1

ASSY-MAIN BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
D201	996510026638	4-CHANNEL ESD SOLUTION	1
D206	996510026638	4-CHANNEL ESD SOLUTION	1
D208	996510009667	SMD. SWITCHING DIODE LL4148	1
D513	996510026617	IC PGB1010603	1
D514	319801010620	DIO SIG SM BAV99 (COL) R	1
D515	319801010850	DIO REC SS34 COL R	1
D519	319801010850	DIO REC SS34 COL R	1
D520	319801010620	DIO SIG SM BAV99 (COL) R	1
D521	319801010620	DIO SIG SM BAV99 (COL) R	1
D522	319801010620	DIO SIG SM BAV99 (COL) R	1
Q200	996510026641	N-channel MOSFET AO3414	1
Q206	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q207	996510026641	N-channel MOSFET AO3414	1
Q208	996510026631	MOSFET AO3401	1
Q209	996510009769	N Channel MOSFET 2SK3108	1
Q210	996510009769	N Channel MOSFET 2SK3108	1
Q211	996510010949	MOSFET AO3402	1
Q212	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q213	996510009670	TRANSISTOR SMT 3CG9012M	1
Q214	996510009670	TRANSISTOR SMT 3CG9012M	1
Q215	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q216	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q217	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q218	996510009670	TRANSISTOR SMT 3CG9012M	1
Q219	996510009670	TRANSISTOR SMT 3CG9012M	1
Q220	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q221	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
U1	996510026642	IC G691L2	1
U101	996510026646	1Gb DDR2 SDRAM	1
U102	996510026646	1Gb DDR2 SDRAM	1
U103	996510026623	512Mb DDR2 SDRAM	1
U104	996510026623	512Mb DDR2 SDRAM	1
U106	996510026643	IC G2996	1
U107	996510026635	BD/DTV DECODER MT8520	1
U3	996510026622	5A REGULATOR	1
U301	996510031442	1Gbit NAND FLASH	1
U4	996510026645	1A POSITIVE REGULATOR	1
U907	996510031461	IC EN25F8-01B FALSH	1
U908	996510026616	DC-DC 3A TPS54331	1
U909	996510026616	DC-DC 3A TPS54331	1
U912	996510026636	15kV ESD Protected IC	1
U913	996510026634	VICLEU FILTER	1
U914	996510026625	IC 78L050	1
U915	996510026652	IC 4385DA DAC	1
U916	996510010924	Dual operational amplifier	1
Y200	996510026628	CRYSTAL 27MHZ	1
Y300	996510026621	CRYSTAL 25MHZ	1
Y301	996510026621	CRYSTAL 25MHZ	1

ASSY-FRONT CONTROL BOARD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
IR1	996510026624	IR RECEIVER MODULE2.7-5.5V12mm	1
U2	996510026644	HT48R06A-1 OPT MCU	1
U4	996510026614	ETEK16311 VFD DRIVE IC	1
VFD	996510026633	VFD DISPLAY	1

ASSY-POWER BOARD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
D501	996510013568	DIODE FR107	1
D502	996500014043	DIODE FR102 (FAST RECOVERY)	1
D503	996500025702	DIODE SR3100	1
D504	996510013568	DIODE FR107	1
D505	996510009725	DIODE 2A1000V	1
D506	996510009725	DIODE 2A1000V	1
D507	996510009725	DIODE 2A1000V	1
D508	996510009725	DIODE 2A1000V	1
D509	996500027866	DIODE SR360 3A/60V	1
D510	996500027866	DIODE SR360 3A/60V	1
L3	996500032509	COIL SL0811-6R8K2R4	1
L6	996500032509	COIL SL0811-6R8K2R4	1
U502	996500024838	PC123X9YFZ	1
U503	996500014609	IC AM431LP	1
U504	996500032514	IC KA278R12	1
U505	996510026629	IC L79L12ACZ	1
ZD501	996510007898	DIODE ZENER 24V 1/2W 5%	1
ZD502	996500015716	DIODE ZENER 33V 1/2W 5%	1
ZD503	996510007898	DIODE ZENER 24V 1/2W 5%	1
ZD506	996510006106	DIODE ZENER 5V6 1/2W 5%	1

MECHANICAL PARTLIST

No	12NC No.	Description	Q'ty
1	996510025851	CD DOOR	1
14	996510027114	BACK PLATE	1
18	996510025849	TOP COVER	1
▲ 9	996510025846	BOTTOM PLATE	1
AVCABLE	996500020384	AUDIO/VIDEO CABLE 1	1
CARD	996510019880	Worldwideguarantcard	1
CN504	996510025841	8P CABLE SAN-8P P2.0 L130	1
DBOX	996510029485	D-BOX	1
EVA	996510027136	EVA	1
GUARANTEE	996510027112	SERVICE GUARANTEE	1
HOTLINE	996500042132	SERVICE HOT LINE	1
IFU	996510027107	USER MANUAL	1
J303	996510025852	4PIN CABLE TJC3-4Y*2	1
JP1	996510025834	CABLE 5P 130MM FH-JC20	1
JP2	996510025847	CABLE 6P 120MM FH-JC20	1
JP3	996510025844	4P CABLE 180MM	1
LEFTBUFFER	996510027111	PAPER PAD	1
OPRATION	996510027108	TERSE OPRATION MANUAL	1
PAD	996510025837	SPONGE PAD	4
▲ POWERCORD	996510009517	POWER CORD	1
RBUFFER	996510027106	PAPER PAD	1
RC	996510025848	REMOTE CONTROL	1
SATALINE	996510026637	SATA CABLE	1
SHIELDBOARD	996510025833	SHIELD BOARD	1
SPONGE	996510026627	SPONGE	1
TWISTTIE	996510026143	TWIST TIE NY66	1

Screws List

No	12NC No.	Description	Q'ty
8	—	S/T SCREW B 2.6 X 6 BF	6
10	—	TRIANGLE M/C SCREW B 3 X 6	6
12	—	S/T SCREW B 3 X 8 BF	4
13	—	M/C SCREW 3 X 6 B	1
16	—	S/T SCREW B3 X 6 BF	7
17	—	S/T SCREW B3 X 6 BF	2
19	—	S/T SCREW B 3 X 7 BF	4

BDP3000/98 SERVICE PARTLIST

ELECTRICAL PARTLIST

No	12NC No.	Description	Q'ty
15	996510031456	ASSY-MAIN BOARD	1
21	996510025842	ASSY-SW BOARD	1
6	996510025843	ASSY-FRONT CONTROL BOARD	1
△ 11	996510026618	ASSY-POWER BOARD	1
20	996510025832	BLU-RAY DISC MODULE	1

ASSY-MAIN BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
D201	996510026638	4-CHANNEL ESD SOLUTION	1
D206	996510026638	4-CHANNEL ESD SOLUTION	1
D512	996510026617	IC PGB1010603	1
D513	996510026617	IC PGB1010603	1
D514	319801010620	DIO SIG SM BAV99 (COL) R	1
D515	319801010850	DIO REC SS34 COL R	1
D519	319801010850	DIO REC SS34 COL R	1
D520	319801010620	DIO SIG SM BAV99 (COL) R	1
D521	319801010620	DIO SIG SM BAV99 (COL) R	1
D522	319801010620	DIO SIG SM BAV99 (COL) R	1
Q200	996510026641	N-channel MOSFET AO3414	1
Q206	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q207	996510026641	N-channel MOSFET AO3414	1
Q208	996510026631	MOSFET AO3401	1
Q209	996510009769	N Channel MOSFET 2SK3108	1
Q210	996510009769	N Channel MOSFET 2SK3108	1
Q211	996510010949	MOSFET AO3402	1
Q212	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q213	996510009670	TRANSISTOR SMT 3CG9012M	1
Q214	996510009670	TRANSISTOR SMT 3CG9012M	1
Q215	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q216	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q217	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q218	996510009670	TRANSISTOR SMT 3CG9012M	1
Q219	996510009670	TRANSISTOR SMT 3CG9012M	1
Q220	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q221	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
U1	996510026642	IC G691L2	1
U101	996510026646	1Gb DDR2 SDRAM	1
U102	996510026646	1Gb DDR2 SDRAM	1
U103	996510026623	512Mb DDR2 SDRAM	1
U104	996510026623	512Mb DDR2 SDRAM	1
U106	996510026643	IC G2996	1
U107	996510026635	BD/DTV DECODER MT8520	1
U3	996510026622	5A REGULATOR	1
U301	996510031387	1Gbit NAND FLASH BDP300098	1
U4	996510026645	1A POSITIVE REGULATOR	1
U907	996510031467	IC EN25F8-01B FALSH	1
U908	996510026616	DC-DC 3A TPS54331	1
U909	996510026616	DC-DC 3A TPS54331	1
U912	996510026636	15kV ESD Protected IC	1
U913	996510026634	VICLEU FILTER	1
U914	996510026625	IC 78L050	1
U915	996510026652	IC 4385DA DAC	1
U916	996510010924	Dual operational amplifier	1
Y200	996510026628	CRYSTAL 27MHZ	1
Y300	996510026621	CRYSTAL 25MHZ	1
Y301	996510026621	CRYSTAL 25MHZ	1

ASSY-FRONT CONTROL BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
IR1	996510026624	IR RECEIVER MODULE2.7-5.5V12mm	1
U2	996510026644	HT48R06A-1 OPT MCU	1
U4	996510026614	ETEK16311 VFD DRIVE IC	1
VFD	996510026633	VFD DISPLAY	1

ASSY-PW BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
BD501	996510026648	RECTIFIER BRIDGE KBP306G	1
D501	996510013568	DIODE FR107	1
D502	996500014043	DIODE FR102 (FAST RECOVERY)	1
D503	996500027866	DIODE SR360 3A/60V	1
D504	996510013568	DIODE FR107	1
D505	996510026632	DIODE RF1045S7	1
L3	996500032509	COIL SL0811-6R8K2R4	1
L6	996500032509	COIL SL0811-6R8K2R4	1
LF501	996510026639	COMMON INDUCTANCE	1
△ T501	996510026626	TRANSFORMER	1
U501	996510026649	IC FSQ0565R	1
U502	996500024838	PC123X9YFZ	1
U503	996500014609	IC AM431LP	1
U504	996500032514	IC KA278R12	1
U505	996510026629	IC L79L12ACZ	1
ZD501	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD502	996500015716	DIODE ZENER 33V 1/2W 5%	1
ZD503	996510007898	DIODE ZENER 24V 1/2W 5%	1
ZD504	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD506	996510014588	DIODE ZENER 12V 1/2W 5%	1
ZD508	996510026651	DIODE P6KE200A	1

MECHANICAL PARTLIST

No	12NC No.	Description	Q'ty
1	996510025851	CD DOOR	1
14	996510027137	BACK PLATE	1
18	996510025849	TOP COVER	1
△ 9	996510025846	BOTTOM PLATE	1
AVCABLE	996500020384	AUDIO/VIDEO CABLE 1	1
Assy1	996510025838	ASSY-FRONT PANEL	1
CN504	996510025841	8P CABLE SAN-8P P2.0 L130	1
EVA	996510027136	EVA	1
J303	996510025852	4PIN CABLE TJC3-4Y*2	1
JP1	996510025834	CABLE 5P 130MM FH-JC20	1
JP2	996510025847	CABLE 6P 120MM FH-JC20	1
JP3	996510027138	4P cbl	1
PAD	996510025837	SPONGE PAD	4
△ POWERCORD	996510001537	POWER CORD	1
RC	996510025848	REMOTE CONTROL	1
SATALINE	996510026637	SATA CABLE	1
SPONGE	996510026627	SPONGE	1
TWISTTIE	996510026143	TWIST TIE NY66	1

Screws List

No	12NC No.	Description	Q'ty
8	—	S/T SCREW B 2.6 X 6 BF	6
10	—	TRIANGLE M/C SCREW B 3 X 6	6
12	—	S/T SCREW B 3 X 8 BF	4
13	—	M/C SCREW 3 X 6 B	1
16	—	S/T SCREW B3 X 6 BF	7
17	—	S/T SCREW B3 X 6 BF	2
19	—	S/T SCREW B 3 X 7 BF	4

BDP3000/94 SERVICE PARTLIST**ELECTRICAL PARTLIST**

No	12NC No.	Description	Q'ty
15	996510031449	ASSY-MAIN BOARD	1
21	996510025842	ASSY-SW BOARD	1
6	996510025843	ASSY-FRONT CONTROL BOARD	1
▲ 11	996510027093	ASSY-POWER BOARD	1
20	996510025832	BLU-RAY DISC MODULE	1

ASSY-MAIN BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
D201	996510026638	4-CHANNEL ESD SOLUTION	1
D206	996510026638	4-CHANNEL ESD SOLUTION	1
D512	996510026617	IC PGB1010603	1
D513	996510026617	IC PGB1010603	1
D514	319801010620	DIO SIG SM BAV99 (COL) R	1
D515	319801010850	DIO REC SS34 COL R	1
D519	319801010850	DIO REC SS34 COL R	1
D520	319801010620	DIO SIG SM BAV99 (COL) R	1
D521	319801010620	DIO SIG SM BAV99 (COL) R	1
D522	319801010620	DIO SIG SM BAV99 (COL) R	1
Q200	996510026641	N-channel MOSFET AO3414	1
Q206	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q207	996510026641	N-channel MOSFET AO3414	1
Q208	996510026631	MOSFET AO3401	1
Q209	996510009769	N Channel MOSFET 2SK3108	1
Q210	996510009769	N Channel MOSFET 2SK3108	1
Q211	996510010949	MOSFET AO3402	1
Q212	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q213	996510009670	TRANSISTOR SMT 3CG9012M	1
Q214	996510009670	TRANSISTOR SMT 3CG9012M	1
Q215	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q216	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q217	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q218	996510009670	TRANSISTOR SMT 3CG9012M	1
Q219	996510009670	TRANSISTOR SMT 3CG9012M	1
Q220	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q221	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
U1	996510026642	IC G691L2	1
U101	996510026646	1Gb DDR2 SDRAM	1
U102	996510026646	1Gb DDR2 SDRAM	1
U103	996510026623	512Mb DDR2 SDRAM	1
U104	996510026623	512Mb DDR2 SDRAM	1
U106	996510026643	IC G2996	1
U107	996510026635	BD/DTV DECODER MT8520	1
U3	996510026622	5A REGULATOR	1
U301	996510031451	1Gbit NAND FLASH	1
U4	996510026645	1A POSITIVE REGULATOR	1
U907	996510031464	IC EN25F8-01B FALSH	1
U908	996510026616	DC-DC 3A TPS54331	1
U909	996510026616	DC-DC 3A TPS54331	1
U912	996510026636	15kV ESD Protected IC	1
U913	996510026634	VICLEU FILTER	1
U914	996510026625	IC 78L050	1
U915	996510026652	IC 4385DA DAC	1
U916	996510010924	Dual operational amplifier	1
Y200	996510026628	CRYSTAL 27MHz	1
Y300	996510026621	CRYSTAL 25MHZ	1
Y301	996510026621	CRYSTAL 25MHZ	1

ASSY-FE BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
IR1	996510026624	IR RECEIVER MODULE2.7-5.5V12mm	1
U2	996510026644	HT48R06A-1 OPT MCU	1
U4	996510026614	ETEK16311 VFD DRIVE IC	1
VFD	996510026633	VFD DISPLAY	1

ASSY-POWER BOARD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
BD501	996510026648	RECTIFIER BRIDGE KBP306G	1
D501	996510013568	DIODE FR107	1
D502	996500014043	DIODE FR102 (FAST RECOVERY	1
D503	996510028905	DIODE SR360 3A/60V	1
D504	996510013568	DIODE FR107	1
D505	996510026632	DIODE RF1045S7	1
L3	996500032509	COIL SL0811-6R8K2R4	1
L6	996500032509	COIL SL0811-6R8K2R4	1
LF501	996510026639	COMMON INDUCTANCE	1
▲ T501	996510026626	TRANSFORMER	1
U501	996510026649	IC FSQ0565R	1
U502	996500024838	PC123X9YFZ	1
U503	996500014609	IC AM431LP	1
U504	996500032514	IC KA278R12	1
U505	996510026629	IC L79L12ACZ	1
ZD501	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD502	996500015716	DIODE ZENER 33V 1/2W 5%	1
ZD503	996510007898	DIODE ZENER 24V 1/2W 5%	1
ZD504	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD506	996510014588	DIODE ZENER 12V 1/2W 5%	1
ZD508	996510026651	DIODE P6KE200A	1

MECHANICAL PARTLIST

No	12NC No.	Description	Q'ty
1	996510025851	CD DOOR	1
14	996510027092	BACK PLATE	1
18	996510025849	TOP COVER	1
▲ 9	996510025846	BOTTOM PLATE	1
AVCABLE	996500020384	AUDIO/VIDEO CABLE 1	1
Assy1	996510025838	ASSY-FRONT PANEL	1
CN504	996510025841	8P CABLE SAN-8P P2.0 L130	1
DBOX	996510027094	G-BOX	1
EVA	996510027136	EVA	1
J303	996510025852	4PIN CABLE TJC3-4Y*2	1
JP1	996510025834	CABLE 5P 130MM FH-JC20	1
JP2	996510025847	CABLE 6P 120MM FH-JC20	1
JP3	996510027138	4P cbl	1
PAD	996510025837	SPONGE PAD	4
RC	996510025848	REMOTE CONTROL	1
SATALINE	996510026637	SATA CABLE	1
SHIELDBOARD	996510025833	SHIELD BOARD	1
SPONGE	996510026627	SPONGE	1
TWISTTIE	996510026143	TWIST TIE NY66	1
POWERCORD	996510027993	POWERCORD	1

Screws List

No	12NC No.	Description	Q'ty
8	—	S/T SCREW B 2.6 X 6 BF	6
10	—	TRIANGLE M/C SCREW B 3 X 6	6
12	—	S/T SCREW B 3 X 8 BF	4
13	—	M/C SCREW 3 X 6 B	1
16	—	S/T SCREW B3 X 6 BF	7
17	—	S/T SCREW B3 X 6 BF	2
19	—	S/T SCREW B 3 X 7 BF	4

BDP3000/96 SERVICE PARTLIST

ELECTRICAL PARTLIST

No	12NC No.	Description	Q'ty
15	996510031454	ASSY-MAIN BOARD	1
21	996510025842	ASSY-SW BOARD	1
6	996510025843	ASSY-FRONT CONTROL BOARD	1
△ 11	996510025845	ASSY-POWER BOARD	1
20	996510025832	BLU-RAY DISC MODULE	1

ASSY-MAIN BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
D201	996510026638	4-CHANNEL ESD SOLUTION	1
D206	996510026638	4-CHANNEL ESD SOLUTION	1
D512	996510026617	IC PGB1010603	1
D513	996510026617	IC PGB1010603	1
D514	319801010620	DIO SIG SM BAV99 (COL) R	1
D515	319801010850	DIO REC SS34 COL R	1
D519	319801010850	DIO REC SS34 COL R	1
D520	319801010620	DIO SIG SM BAV99 (COL) R	1
D521	319801010620	DIO SIG SM BAV99 (COL) R	1
D522	319801010620	DIO SIG SM BAV99 (COL) R	1
Q200	996510026641	N-channel MOSFET AO3414	1
Q206	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q207	996510026641	N-channel MOSFET AO3414	1
Q208	996510026631	MOSFET AO3401	1
Q209	996510009769	N Channel MOSFET 2SK3108	1
Q210	996510009769	N Channel MOSFET 2SK3108	1
Q211	996510010949	MOSFET AO3402	1
Q212	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q213	996510009670	TRANSISTOR SMT 3CG9012M	1
Q214	996510009670	TRANSISTOR SMT 3CG9012M	1
Q215	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q216	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q217	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q218	996510009670	TRANSISTOR SMT 3CG9012M	1
Q219	996510009670	TRANSISTOR SMT 3CG9012M	1
Q220	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q221	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
U1	996510026642	IC G691L2	1
U101	996510026646	1Gb DDR2 SDRAM	1
U102	996510026646	1Gb DDR2 SDRAM	1
U103	996510026623	512Mb DDR2 SDRAM	1
U104	996510026623	512Mb DDR2 SDRAM	1
U106	996510026643	IC G2996	1
U107	996510026635	BD/DTV DECODER MT8520	1
U3	996510026622	5A REGULATOR	1
U301	996510031455	1Gbit NAND FLASH	1
U4	996510026645	1A POSITIVE REGULATOR	1
U907	996510031466	IC EN25F8-01B FALSH	1
U908	996510026616	DC-DC 3A TPS54331	1
U909	996510026616	DC-DC 3A TPS54331	1
U912	996510026636	15kV ESD Protected IC	1
U913	996510026634	VICLEU FILTER	1
U914	996510026625	IC 78L050	1
U915	996510026652	IC 4385DA DAC	1
U916	996510010924	Dual operational amplifier	1
Y200	996510026628	CRYSTAL 27MHZ	1
Y300	996510026621	CRYSTAL 25MHZ	1
Y301	996510026621	CRYSTAL 25MHZ	1

ASSY-FE BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
IR1	996510026624	IR RECEIVER MODULE2.7-5.5V12mm	1
U2	996510026644	HT48R06A-1 OPT MCU	1
U4	996510026614	ETEK16311 VFD DRIVE IC	1
VFD	996510026633	VFD DISPLAY	1

ASSY-POWER BOARD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
BD501	996510026648	RECTIFIER BRIDGE KBP306G	1
D501	996510013568	DIODE FR107	1
D502	996500014043	DIODE FR102 (FAST RECOVERY)	1
D503	996510028905	SILICON COMMUTATION DIODE	1
D504	996510013568	DIODE FR107	1
D505	996510026632	DIODE RF1045S7	1
L3	996500032509	COIL SL0811-6R8K2R4	1
L6	996500032509	COIL SL0811-6R8K2R4	1
LF501	996510026639	COMMON INDUCTANCE	1
Q502	996510027091	NPN TRANSISTOR S8050C	1
Q503	996510009736	SMD TRANSISTORMMBT3906LT1 PNP	1
Q504	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q8	996510027089	MOS AOD472	1
△ T501	996510026626	TRANSFORMER	1
U501	996510026649	IC FSQ0565R	1
U502	996500024838	PC123X9YFZ	1
U503	996500014609	IC AM431LP	1
U504	996500032514	IC KA278R12	1
U505	996510026629	IC L79L12ACZ	1
ZD501	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD502	996500015716	DIODE ZENER 33V 1/2W 5%	1
ZD503	996510007898	DIODE ZENER 24V 1/2W 5%	1
ZD504	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD506	996510014588	DIODE ZENER 12V 1/2W 5%	1
ZD508	996510026651	DIODE P6KE200A	1

MECHANICAL PARTLIST

No	12NC No.	Description	Q'ty
1	996510025851	CD DOOR	1
14	996510027137	BACK PLATE	1
18	996510025849	TOP COVER	1
9	996510025846	BOTTOM PLATE	1
AVCABLE	996500020384	AUDIO/VIDEO CABLE 1.5M	1
Assy1	996510025838	ASSY-FRONT PANEL	1
EVA	996510027136	EVA	1
J303	996510025852	4PIN CABLE TJC3-4Y*2	1
PAD	996510025837	SPONGE PAD	4
△ POWERCORD	996510027102	POWER CORD	1
RC	996510025848	REMOTE CONTROL	1
SATALINE	996510026637	SATA CABLE	1
SHIELDBOARD	996510025833	SHIELD BOARD	1
SPONGE	996510026627	SPONGE	1
TWISTTIE	996510026143	TWIST TIE NY66	1

Screws List

No	12NC No.	Description	Q'ty
8	—	S/T SCREW B 2.6 X 6 BF	6
10	—	TRIANGLE M/C SCREW B 3 X 6	6
12	—	S/T SCREW B 3 X 8 BF	4
13	—	M/C SCREW 3 X 6 B	1
16	—	S/T SCREW B3 X 6 BF	7
17	—	S/T SCREW B3 X 6 BF	2
19	—	S/T SCREW B 3 X 7 BF	4

BDP3000/75 SERVICE PARTLIST**ELECTRICAL PARTLIST**

No	12NC No.	Description	Q'ty
15	996510031452	ASSY-MAIN BOARD	1
21	996510025843	ASSY-FE BOARD	1
6	996510025842	ASSY-SW BOARD	1
⚠ 11	996510025845	ASSY-PW BOARD	1
LOADER	996510025832	BLU-RAY DISC MODULE	1

MECHANICAL PARTLIST

No	12NC No.	Description	Q'ty
1	996510025851	CD DOOR	1
14	996510025835	BACK PLATE	1
18	996510025849	TOP COVER	1
⚠ 9	996510025846	BOTTOM PLATE	1
AVCEABLE	996500020384	AUDIO/VIDEO CABLE 1	1
Assy1	996510025838	ASSY-FRONT PANEL	1
CN504	996510025841	8P CABLE SAN-8P P2.0 L130	1
DBOX	996510028566	DISPLAY BOX	1
J303	996510025852	4PIN CABLE TJC3-4Y*2	1
JP1	996510025834	CABLE 5P 130MM FH-JC20	1
JP2	996510025847	CABLE 6P 120MM FH-JC20	1
JP3	996510027138	4P cbl	1
PAD	996510025837	SPONGE PAD	4
⚠ POWERCORD	996510028565	POWER CORD	1
RC	996510025848	REMOTE CONTROL	1
SATALINE	996510026637	SATA CABLE	1
SHIELDBOARD	996510025833	SHIELD BOARD	1
SPONGE	996510026627	SPONGE	1
TWISTTIE	996510026143	TWIST TIE NY66	

Screws List

No	12NC No.	Description	Q'ty
8	—	S/T SCREW B 2.6 X 6 BF	6
10	—	TRIANGLE M/C SCREW B 3 X 6	6
12	—	S/T SCREW B 3 X 8 BF	4
13	—	M/C SCREW 3 X 6 B	1
16	—	S/T SCREW B3 X 6 BF	7
17	—	S/T SCREW B3 X 6 BF	2
19	—	S/T SCREW B 3 X 7 BF	4

BDP3008/98 SERVICE PARTLIST**ELECTRICAL PARTLIST**

No	12NC No.	Description	Q'ty
15	996510031388	ASSY-MAIN BOARD	1
26	996510025843	ASSY-FRONT CONTROL BOARD	1
6	996510025842	ASSY-SWITCH BOARD	1
△ 17	996510026618	ASSY-POWER BOARD	1
LOADER	996510025832	BLU-RAY DISC MODULE	1

ASSY-MAIN BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
D201	996510026638	4-CHANNEL ESD SOLUTION	1
D206	996510026638	4-CHANNEL ESD SOLUTION	1
D512	996510026617	IC PGB1010603	1
D513	996510026617	IC PGB1010603	1
D514	319801010620	DIO SIG SM BAV99 (COL) R	1
D515	319801010850	DIO REC SS34 COL R	1
D519	319801010850	DIO REC SS34 COL R	1
D520	319801010620	DIO SIG SM BAV99 (COL) R	1
D521	319801010620	DIO SIG SM BAV99 (COL) R	1
D522	319801010620	DIO SIG SM BAV99 (COL) R	1
Q200	996510026641	N-channel MOSFET AO3414	1
Q206	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q207	996510026641	N-channel MOSFET AO3414	1
Q208	996510026631	MOSFET AO3401	1
Q209	996510009769	N Channel MOSFET 2SK3108	1
Q210	996510009769	N Channel MOSFET 2SK3108	1
Q211	996510010949	MOSFET AO3402	1
Q212	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q213	996510009670	TRANSISTOR SMT 3CG9012M	1
Q214	996510009670	TRANSISTOR SMT 3CG9012M	1
Q215	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q216	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q217	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q218	996510009670	TRANSISTOR SMT 3CG9012M	1
Q219	996510009670	TRANSISTOR SMT 3CG9012M	1
Q220	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
Q221	996510009669	SMD.TRANSISTOR MMBT3904LT1 NPN	1
U1	996510026642	IC G691L2	1
U101	996510026646	1Gb DDR2 SDRAM	1
U102	996510026646	1Gb DDR2 SDRAM	1
U103	996510026623	512Mb DDR2 SDRAM	1
U104	996510026623	512Mb DDR2 SDRAM	1
U106	996510026643	IC G2996	1
U107	996510026635	BD/DTV DECODER MT8520	1
U3	996510026622	5A REGULATOR	1
U301	996510031448	1Gbit NAND FLASH	1
U4	996510026645	1A POSITIVE REGULATOR	1
U907	996510031463	IC EN25F8-01B FALSH	1
U908	996510026616	DC-DC 3A TPS54331	1
U909	996510026616	DC-DC 3A TPS54331	1
U912	996510026636	15kV ESD Protected IC	1
U913	996510026634	VICLEU FILTER	1
U914	996510026625	IC 78L050	1
U915	996510026652	IC 4385DA DAC	1
U916	996510010924	Dual operational amplifier	1
Y200	996510026628	CRYSTAL 27MHz	1
Y300	996510026621	CRYSTAL 25MHZ	1
Y301	996510026621	CRYSTAL 25MHZ	1

ASSY-FE BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
IR1	996510026624	IR RECEIVER MODULE2.7-5.5V12mm	1
U2	996510026644	HT48R06A-1 OPT MCU	1
U4	996510026614	ETEK16311 VFD DRIVE IC	1
VFD	996510026633	VFD DISPLAY	1

ASSY-PW BD COMPONENT PARTLIST

NO	12NC NO.	Description	Q'ty
BD501	996510026648	RECTIFIER BRIDGE KBP306G	1
D501	996510013568	DIODE FR107	1
D502	996500014043	DIODE FR102 (FAST RECOVERY)	1
D503	996500027866	DIODE SR360 3A/60V	1
D504	996510013568	DIODE FR107	1
D505	996510026632	DIODE RF1045S7	1
L3	996500032509	COIL SL0811-6R8K2R4	1
L6	996510026639	COMMON INDUCTANCE	1
LF501	996510026639	COMMON INDUCTANCE	1
△ T501	996510026626	TRANSFORMER	1
U501	996510026649	IC FSQ0565R	1
U502	996500024838	PC123X9YFZ	1
U503	996500014609	IC AM431LP	1
U504	996500032514	IC KA278R12	1
U505	996510026629	IC L79L12ACZ	1
ZD501	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD502	996500015716	DIODE ZENER 33V 1/2W 5%	1
ZD503	996510007898	DIODE ZENER 24V 1/2W 5%	1
ZD504	996510003172	DIODE ZENER 18V 1/2W 5%	1
ZD506	996510014588	DIODE ZENER 12V 1/2W 5%	1
ZD508	996510026651	DIODE P6KE200A	1

MECHANICAL PARTLIST

No	12NC No.	Description	Q'ty
11	996510025849	TOP COVER	1
16	996510027137	BACK PLATE	1
2	996510025851	CD DOOR	1
8	996510025846	BOTTOM PLATE	1
AVCABLE	996500020384	AUDIO/VIDEO CABLE 1	1
Assy1	996510025838	ASSY-FRONT PANEL	1
CN504	996510025841	8P CABLE SAN-8P P2.0 L130	1
DBOX	996510028906	DISPLAY BOX	1
J303	996510025852	4PIN CABLE TJC3-4Y*2	1
JP1	996510025834	CABLE 5P 130MM FH-JC20	1
JP2	996510025847	CABLE 6P 120MM FH-JC20	1
JP3	996510027138	4P CABLE	1
△ POWERCORD	996510001537	POWER CORD	4
RC	996510025848	REMOTE CONTROL	1
SATALINE	996510026637	SATA CABLE	1
SHIELDBOARD	996510025833	SHIELD BOARD	1

Screws List

No	12NC No.	Description	Q'ty
8	—	S/T SCREW B 2.6 X 6 BF	6
10	—	TRIANGLE M/C SCREW B 3 X 6	6
12	—	S/T SCREW B 3 X 8 BF	4
13	—	M/C SCREW 3 X 6 B	1
16	—	S/T SCREW B3 X 6 BF	7
17	—	S/T SCREW B3 X 6 BF	2
19	—	S/T SCREW B 3 X 7 BF	4

REVISION LIST

Version 1.0

- * Initial release for BDP3000/55/93/98/94/96

Version 1.1

- * Add BDP3000/75/X78 & BDP3008/98

Version 1.2

- * Update the trouble shooting chart

Version 1.3

- * Correction:

20 996510025832 BLU-RAY DISC MODULE (was ASA BOARD P021-C)

Version 1.4

- * Correction: correct the 12nc of MAIN BOARD for all versions.