



# ervice Manual

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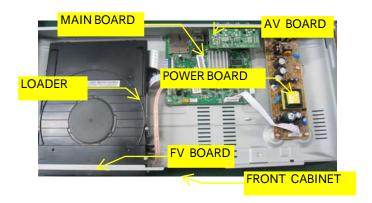




CLASS 1 LASER PRODUCT

Version 1.0

### LOCATION OF PCB BOARDS:



### **Version Variation**

Type/Versions	BDP5300K
Features	/51
Power supply rating:220-240V ,50Hz	х
Power consumption:18W	х

### **Repair Scenario Matrix**

Type/Versions	BDP5300K
Board in used	/51
Main Board	Bd
Power Board	Bd
AV Board	Bd
Loader	Bd

<sup>\*</sup>Bd:Board Level Replacement

<sup>\*</sup>C:Component Level Repair

#### BDP5300K/51

### **Product Specifications**



• Specifications are subject to change without notice

#### Region code

This player can play discs with the following region codes.

DVD

Blu-ray

Countries







Europe, United Kingdom

#### Playable media

- BD-Video, BD 3D
- DVD-Video, DVD+R/+RW, DVD-R/-RW, DVD+R/-R DL (Dual Layer)
- VCD/SVCD
- Audio CD, CD-R/CD-RW, MP3 media, WMA media, JPEG files.
- DivX (Ultra)/DivX Plus HD media, MKV media
- USB storage device

#### File format

- Video: .avi, .divx, .mp4, .mkv, .wmv
- Audio: .mp3, .wma, .wav
- Picture: .jpg, .gif, .png

#### Video

- Signal system: PAL / NTSC
- Composite video output: 1 Vp-p (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 kpbs
  - WMA: 48 kpbs 192 kpbs

#### **USB**

- Compatibility: Hi-Speed USB (2.0)
- Class support: USB Mass Storage Class
- File system: FAT16, FAT32
- Support HDD (a portable hard drive disc): an external power source may be needed.

#### Main unit

#### BDP5300K/51:

- Power supply rating: AC 220-240V~, 50 Hz
- Power consumption: 18 W
- Power consumption in standby mode: < 0.18 W
- Dimensions (w x h x d):  $435 \times 42 \times 208.5$  (mm)
- Net Weight: 1.65 kg

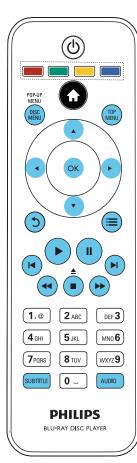
#### Accessories supplied

- Remote control and batteries
- User manual
- CD-ROM built in multi-lingual user manua (Continental Europe only)

#### Laser Specification

- Laser Type (Diode): AlGalnN (BD), AlGalnP (DVD/CD)
- Wave length: 400 ~ 410nm (BD), 650 ~ 663nm (DVD), 770 ~800nm (CD)
- Output power (Max ratings): 20mW (BD), 7mW (DVD), 7mW (CD)

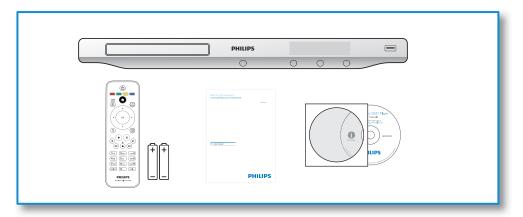
### Remote Control



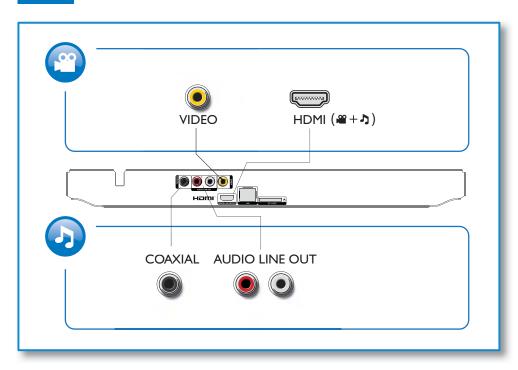
During play, press the following buttons to control.

Button	Action
▲/■	Stop play. Press and hold (more than 4 seconds) to open or close the disc compartment.
П	Pause play. Press repeatedly to slow forward frame by frame.
<b>&gt;</b>	Start or resume play.
<b>I</b> ◀ / ▶ <b>I</b>	Skip to the previous or next track, chapter or file.
<b>44/&gt;&gt;</b>	Fast backward or forward.  Press repeatedly to change the search speed.  Press ■ once, and then press ◄ beto slow backward or forward.
AUDIO	Select an audio language or channel.
SUBTITLE	Select a subtitle language.
DISC MENU / POP-UP MENU	Access or exit the disc menu.
TOP MENU	Access the main menu of a video disc.
Color buttons	Select tasks or options for Blu-ray discs.
<b>AV4&gt;</b>	Navigate the menus.  Press ▲▼ to rotate a picture clockwise or counter-clockwise during slideshow.
ОК	Confirm a selection or entry.
5	Return to a previous display menu.
<b>=</b>	Access more options during play.





# 1

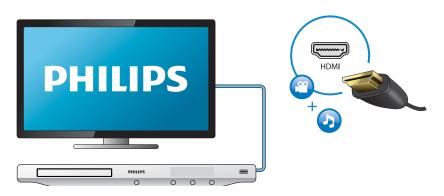








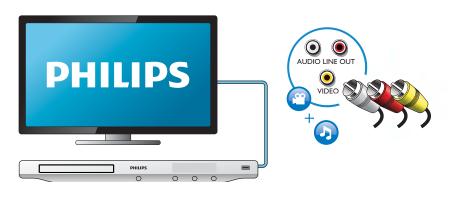
●HDMI ○VIDEO ○COAXIAL ○AUDIO LINE OUT



### 2 VIDEO+AUDIO LINE OUT

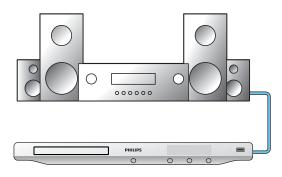


OHDMI OVIDEO OCOAXIAL OAUDIO LINE OUT



### 3 COAXIAL

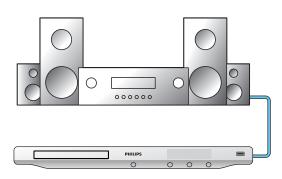
OHDMI OVIDEO OCOAXIAL OAUDIO LINE OUT



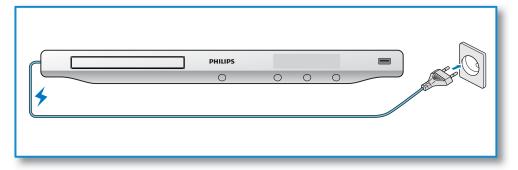


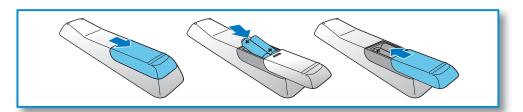
### 4 AUDIO LINE OUT

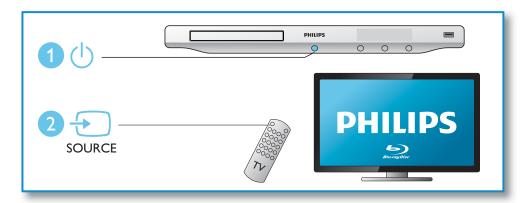
OHDMI OVIDEO OCOAXIAL @AUDIO LINE OUT



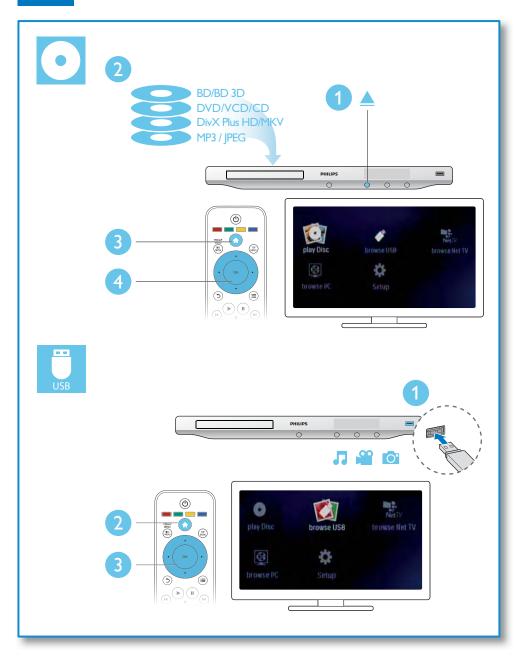








## 6



#### 2. Safety Instructions, Warnings, Notes, and Abbreviation List

#### Index of this chapter:

2.1 Safety Instructions

2.2 Warnings

2.3 Notes

2.4 Abbreviation List

#### 2.1 Safety Instructions

Safety regulations require the following during a repair:

- Connect the set to the Mains/AC Power via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol A, 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, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains/AC Power lead for external damage.
- Check the strain relief of the Mains/AC Power cord for proper function.
- Check the electrical DC resistance between the Mains/AC Power plug and the secondary side (only for sets that have a Mains/AC Power isolated power supply):
  - Unplug the Mains/AC Power cord and connect a wire between the two pins of the Mains/AC Power plug.
  - 2. Set the Mains/AC Power switch to the "on" position (keep the Mains/AC Power cord unplugged!).
  - 3. Measure the resistance value between the pins of the Mains/AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 M $\Omega$  and 12 M $\Omega$ .
  - Switch "off" the set, and remove the wire between the two pins of the Mains/AC Power plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

#### 2.2 Warnings

- 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 connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools.
   This will prevent any short circuits and the danger of a circuit becoming unstable.

#### 2.3 Notes

#### 2.3.1 General

Measure the voltages and waveforms with regard to the chassis (= tuner) ground (↓), or hot ground (↓), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).

Where necessary, measure the waveforms and voltages with (¬Г) and without (¬К) aerial signal. Measure the voltages in the power supply section both in normal operation (①) and in stand-by (乜). These values are indicated by means of the appropriate symbols.

#### 2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kΩ).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 Ω).
- All capacitor values are given in micro-farads (μ = x 10<sup>-6</sup>), nano-farads (n = x 10<sup>-9</sup>), or pico-farads (p = x 10<sup>-12</sup>).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (\*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

#### 2.3.3 BGA (Ball Grid Array) ICs

#### Introduction

For more information on how to handle BGA devices, visit this URL: www.atyourservice.ce.philips.com (needs subscription, not available for all regions). After login, select "Magazine", then go to "Repair downloads". Here you will find Information on how to deal with BGA-ICs.

#### **BGA Temperature Profiles**

For BGA-ICs, you **must** use the correct temperature-profile, which is coupled to the 12NC. For an overview of these profiles, visit the website *www.atyourservice.ce.philips.com* (needs subscription, but is not available for all regions) You will find this and more technical information within the "Magazine", chapter "Repair downloads". For additional questions please contact your local repair help

#### 2.3.4 Lead-free Soldering

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

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering 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 soldering tin. The solder tool must be able:
  - To reach a solder-tip temperature of at least 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 of 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 increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch "off" unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly to avoid mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.

#### Safety Instructions, Warnings, Notes, and Abbreviation List

#### 2.3.5 Alternative BOM identification

B.O.M. number.

It should be noted that on the European Service website, "Alternative BOM" is referred to as "Design variant".

The third digit in the serial number (example: KX2B0835000001) indicates the number of the alternative B.O.M. (Bill Of Materials) that has been used for producing the specific AV set. In general, it is possible that the same AV model on the market is produced with e.g. two different types of display, coming from two different suppliers. This will then result in sets which have the same CTN (Commercial Type Number; e.g. MCM394/12) but which have a different

Also, it is possible that same model on the market is produced with two production centers, however their partslist is the same. In such case, no alternative B.O.M. will be created.

By looking at the third digit of the serial number, one can identify which B.O.M. is used for the set he is working with. If the third digit of the serial number contains the number "1" (example: KX 1B033500001), then the set has been manufactured according to B.O.M. number 1. If the third digit is a "2" (example: KX2B0335000001), then the set has been produced according to B.O.M. no. 2. This is important for ordering the correct spare parts!

For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26= 35 different B.O.M.s can be indicated by the third digit of the serial number.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 1 and 2 refer to the production centre (e.g. LM is Arts), digit 3 refers to the B.O.M. code, digit 4 refers to the Service version change code, digits 5 and 6 refer to the production year, and digits 7 and 8 refer to production week (in example below it is 2008 week 50). The 6 last digits contain the serial number.



Figure 2-1 Serial number (example)

#### 2.3.6 Module Level Repair (MLR) or Component Level Repair (CLR)

If a board is defective, consult your repair procedure to decide if the board has to be exchanged or if it should be repaired on component level.

If your repair procedure says the board should be exchanged completely, do not solder on the defective board. Otherwise, it cannot be returned to the O.E.M. supplier for back charging!

#### 2.3.7 Practical Service Precautions

- It makes sense to avoid exposure to electrical shock. While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- Always respect voltages. While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

#### 2.4

**CVBS** 

DAC

DBE

DDC

Abbreviation List	:
0/6/12	SCART switch control signal on A/V board. 0 = loop through (AUX to TV), 6 = play 16:9 format, 12 = play 4:3
ODNID	format
2DNR 3DNR	Spatial (2D) Noise Reduction Temporal (3D) Noise Reduction
AARA	Automatic Aspect Ratio Adaptation:
70101	algorithm that adapts aspect ratio to remove horizontal black bars; keeps the original aspect ratio
ACI	Automatic Channel Installation:
	algorithm that installs TV channels
	directly from a cable network by
	means of a predefined TXT page
ADC	Analogue to Digital Converter
AFC	Automatic Frequency Control: control
	signal used to tune to the correct
AGC	frequency Automatic Gain Control: algorithm that
AGC	controls the video input of the feature
	box
AM	Amplitude Modulation
ANR	Automatic Noise Reduction: one of the
	algorithms of Auto TV
AP	Asia Pacific
AR	Aspect Ratio: 4 by 3 or 16 by 9
ASF	Auto Screen Fit: algorithm that adapts
	aspect ratio to remove horizontal black
	bars without discarding video information
ATSC	Advanced Television Systems
71100	Committee, the digital TV standard in
	the USA
ATV	See Auto TV
Auto TV	A hardware and software control
	system that measures picture content,
	and adapts image parameters in a
AV	dynamic way External Audio Video
AVC	Audio Video Controller
AVIP	Audio Video Input Processor
B/G	Monochrome TV system. Sound
	carrier distance is 5.5 MHz
BLR	Board-Level Repair
BTSC	Broadcast Television Standard
	Committee. Multiplex FM stereo sound
	system, originating from the USA and used e.g. in LATAM and AP-NTSC
	countries
B-TXT	Blue TeleteXT
С	Centre channel (audio)
CEC	Consumer Electronics Control bus:
	remote control bus on HDMI
	connections
CL	Constant Level: audio output to
CLR	connect with an external amplifier Component Level Repair
COLUMBUS	COlor LUMinance Baseband
COLONIDOO	Universal Sub-system
ComPair	Computer aided rePair
CP	Connected Planet / Copy Protection
CSM	Customer Service Mode
CTI	Color Transient Improvement:
	manipulates steepness of chroma
0.470	transients

Composite Video Blanking and

Digital to Analogue Converter

low frequency amplification

Dynamic Bass Enhancement: extra

Synchronization

See "E-DDC"

#### Safety Instructions, Warnings, Notes, and Abbreviation List

D/K	Monochrome TV system. Sound		lines. The fields are written in "pairs",
	carrier distance is 6.5 MHz		causing line flicker.
DFI	Dynamic Frame Insertion	IR	Infra Red
DFU	Directions For Use: owner's manual	IRQ	Interrupt Request
DMR	Digital Media Reader: card reader	ITU-656	The ITU Radio communication Sector
DMSD	Digital Multi Standard Decoding		(ITU-R) is a standards body
DNM	Digital Natural Motion		subcommittee of the International
DNR	Digital Noise Reduction: noise		Telecommunication Union relating to
Ditit	reduction feature of the set		radio communication. ITU-656 (a.k.a.
DRAM	Dynamic RAM		SDI), is a digitized video format used
DRM	Digital Rights Management		for broadcast grade video.
DSP	Digital Signal Processing		Uncompressed digital component or
DST			
וסו	Dealer Service Tool: special remote		digital composite signals can be used.
	control designed for service		The SDI signal is self-synchronizing,
DTOD	technicians		uses 8 bit or 10 bit data words, and has
DTCP	Digital Transmission Content		a maximum data rate of 270 Mbit/s,
	Protection; A protocol for protecting		with a minimum bandwidth of 135
	digital audio/video content that is	IT. (	MHz.
	traversing a high speed serial bus,	ITV	Institutional TeleVision; TV sets for
	such as IEEE-1394		hotels, hospitals etc.
DVB-C	Digital Video Broadcast - Cable	JOP	Jaguar Output Processor
DVB-T	Digital Video Broadcast - Terrestrial	LS	Last Status; The settings last chosen
DVD	Digital Versatile Disc		by the customer and read and stored
DVI(-d)	Digital Visual Interface (d= digital only)		in RAM or in the NVM. They are called
E-DDC	Enhanced Display Data Channel		at start-up of the set to configure it
	(VESA standard for communication		according to the customer's
	channel and display). Using E-DDC,		preferences
	the video source can read the EDID	LATAM	Latin America
	information form the display.	LCD	Liquid Crystal Display
EDID	Extended Display Identification Data	LED	Light Emitting Diode
	(VESA standard)	L/L'	Monochrome TV system. Sound
EEPROM	Electrically Erasable and		carrier distance is 6.5 MHz. L' is Band
	Programmable Read Only Memory		I, L is all bands except for Band I
EMI	Electro Magnetic Interference	LORE	LOcal REgression approximation
EPLD	Erasable Programmable Logic Device		noise reduction
EU	Europe	LPL	LG.Philips LCD (supplier)
EXT	EXTernal (source), entering the set by	LS	Loudspeaker
	SCART or by cinches (jacks)	LVDS	Low Voltage Differential Signalling
FBL	Fast BLanking: DC signal	Mbps	Mega bits per second
1 00	accompanying RGB signals	M/N	Monochrome TV system. Sound
FDS	Full Dual Screen (same as FDW)	IVI/IN	carrier distance is 4.5 MHz
FDW		MIPS	Microprocessor without Interlocked
FLASH	Full Dual Window (same as FDS)	IVIIFO	·
FM	FLASH memory		Pipeline-Stages; A RISC-based
FIVI	Field Memory or Frequency Modulation	MOP	microprocessor
FPGA	Field-Programmable Gate Array	MOSFET	Matrix Output Processor  Metal Oxide Silicon Field Effect
FTV	Flat TeleVision	WOSILI	
	Giga bits per second	MPEG	Transistor, switching device
Gb/s	9 1	MPIF	Motion Pictures Experts Group
G-TXT	Green TeleteXT		Multi Platform InterFace
H	H_sync to the module	MUTE	MUTE Line
HD	High Definition	NC	Not Connected
HDD	Hard Disk Drive	NICAM	Near Instantaneous Compounded
HDCP	High-bandwidth Digital Content		Audio Multiplexing. This is a digital
	Protection: A "key" encoded into the	N=-0	sound system, mainly used in Europe.
	HDMI/DVI signal that prevents video	NTC	Negative Temperature Coefficient,
	data piracy. If a source is HDCP coded	N=0.0	non-linear resistor
	and connected via HDMI/DVI without	NTSC	National Television Standard
	the proper HDCP decoding, the		Committee. Color system mainly used
	picture is put into a "snow vision" mode		in North America and Japan. Color
	or changed to a low resolution. For		carrier NTSC M/N= 3.579545 MHz,
	normal content distribution the source		NTSC 4.43= 4.433619 MHz (this is a
	and the display device must be		VCR norm, it is not transmitted off-air)
	enabled for HDCP "software key"	NVM	Non-Volatile Memory: IC containing
	decoding.		TV related data such as alignments
HDMI	High Definition Multimedia Interface	O/C	Open Circuit
HP	HeadPhone	OSD	On Screen Display
1	Monochrome TV system. Sound	OTC	On screen display Teletext and
	carrier distance is 6.0 MHz		Control; also called Artistic (SAA5800)
I <sup>2</sup> C	Inter IC bus	P50	Project 50: communication protocol
$I^2D$	Inter IC Data bus		between TV and peripherals
I <sup>2</sup> S	Inter IC Sound bus	PAL	Phase Alternating Line. Color system
IF	Intermediate Frequency		mainly used in West Europe (color
Interlaced	Scan mode where two fields are used		carrier= 4.433619 MHz) and South
	to form one frame. Each field contains		America (color carrier PAL M=
	half the number of the total amount of		

#### Safety Instructions, Warnings, Notes, and Abbreviation List

3.575612 MHz and PAL N= 3.582056 MHz) PCB Printed Circuit Board (same as "PWB") PCM Pulse Code Modulation PDP Plasma Display Panel PFC Power Factor Corrector (or Preconditioner) PIP Picture In Picture PLL Phase Locked Loop. Used for e.g. FST tuning systems. The customer can give directly the desired frequency POR Power On Reset, signal to reset the uP Progressive Scan Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution. PTC Positive Temperature Coefficient, non-linear resistor PWB Printed Wiring Board (same as "PCB") **PWM** Pulse Width Modulation ORC Quasi Resonant Converter QTNR Quality Temporal Noise Reduction QVCP Quality Video Composition Processor RAM Random Access Memory RGB Red, Green, and Blue. The primary color signals for TV. By mixing levels of R, G, and B, all colors (Y/C) are reproduced. RC Remote Control RC5 / RC6 Signal protocol from the remote control receiver RESET RESET signal ROM Read Only Memory R-TXT Red TeleteXT Service Alignment Mode SAM S/C **Short Circuit SCART** Syndicat des Constructeurs d'Appareils Radiorécepteurs et Téléviseurs Serial Clock I<sup>2</sup>C SCL CLock Signal on Fast I<sup>2</sup>C bus SCL-F SD Standard Definition SDA Serial Data I<sup>2</sup>C DAta Signal on Fast I<sup>2</sup>C bus SDA-F Serial Digital Interface, see "ITU-656" SDI **SDRAM** Synchronous DRAM **SECAM** SEequence Couleur Avec Mémoire. Color system mainly used in France and East Europe. Color carriers= 4.406250 MHz and 4.250000 MHz SIF Sound Intermediate Frequency SMPS Switched Mode Power Supply SoC System on Chip SOG Sync On Green Self Oscillating Power Supply SOPS S/PDIF Sony Philips Digital InterFace SRAM Static RAM SRP Service Reference Protocol SSB Small Signal Board STBY STand-BY 800x600 (4:3) **SVGA SVHS** Super Video Home System SW SWAN Spatial temporal Weighted Averaging Noise reduction SXGA 1280x1024 TFT Thin Film Transistor THD **Total Harmonic Distortion TMDS** Transmission Minimized Differential Sianallina

TeleteXT

User Interface

Microprocessor

1600x1200 (4:3)

Dual Window with TeleteXT

TXT

UI

uР

UXGA

TXT-DW

V-sync to the module **VCR** Video Cassette Recorder **VESA** Video Electronics Standards Association VGA 640x480 (4:3) Variable Level out: processed audio VI output toward external amplifier VSB Vestigial Side Band; modulation method **WYSIWYR** What You See Is What You Record: record selection that follows main picture and sound WXGA . 1280x768 (15:9) XTAL Quartz crystal 1024x768 (4:3) XGA ٧ Luminance signal Y/C Luminance (Y) and Chrominance (C) signal YPbPr Component video. Luminance and scaled color difference signals (B-Y and R-Y) YUV Component video

### **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

Step3: Dismantling Front Panel, disconnect the connectors (XP2, XP3,XP4)(Figure 6)

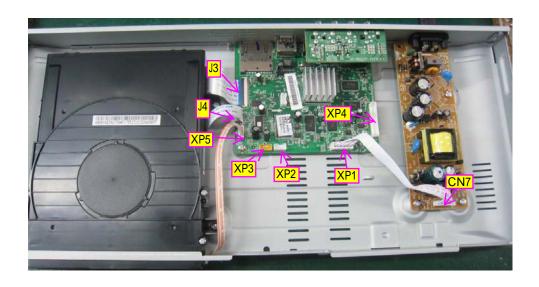


Figure 3

**Step4**: Dismantling Front Panel, need release 2 snaps of Front Panel and 2 snaps of bottom cabinet, then gently pull the Panel out from the set. (Figure 4)





Figure 4

### **Mechanical and Dismantling Instructions**

#### **Dismantling Instruction**

Detailed information please refer to the model set.

**Step5**: Dismantling Loader, disconnect the 3 connectors (XP5, J3, J4)(Figure 3) aiming in the below figure, and remove 4 screws that connects the loader and the bottom cabinet. (Figure 4-5)





Figure 5

**Step6**: Dismantling Main Board and AV Board, first disconnect the connector (XP4), and then remove 5 screws. (Figure 6) **Step7**:Remove 3 screws on Power Board to dismantle the Power Board. (Figure 6)



Figure 6

#### Software check and upgrade

#### Preparation to upgrade software

- 1)Start the USB burning software & create a folder named "UPG\_ALL"
- 2)Then copy the Bin file (BDP\_5300.bin )into it,
- 3)Burn the data onto the blank USB.
- 4)If the model is BDP5200, must use (BDP\_5300.bin )to upgrade
- A. Procedure for software upgrade
- A) Upgrade softwar via network:
- 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.
- Follow the instructions on the TV screen to confirm update operation.
- Once software updated is complete, this player automatically truns off to standby.
- 4) Disconnect the power cord for a few seconds and connect again to turn on the player.
- B) Update software via USB Flash Drive:
- 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 <Setup>-<Advanced Setup>-<Software Updade
- 5) Follow the instructions on the TV screen to confrim 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 reomote control.
- 3) Select <Setup>, 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:

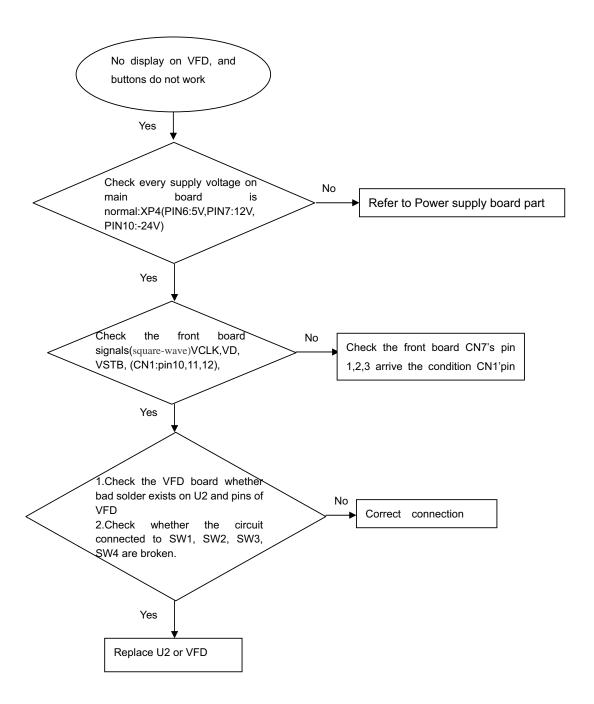
Model:BDP5XXX/XX

Versions:

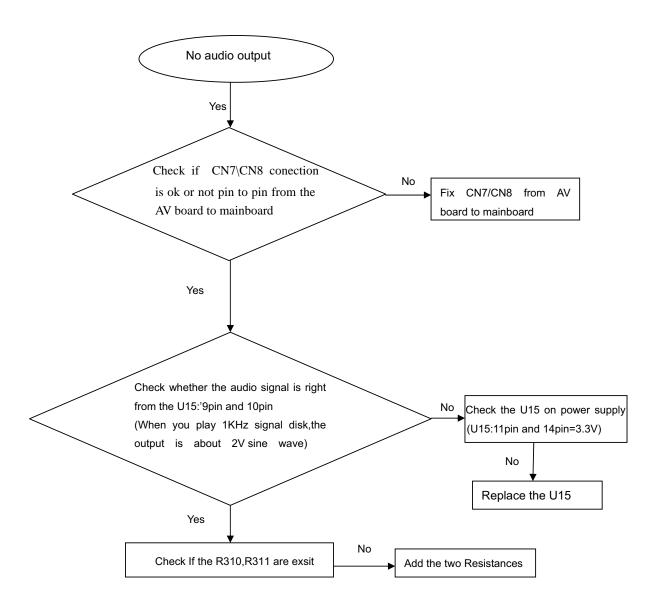
http://www.philips.com/support MAC:XX-XX-XX-XX-XX

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

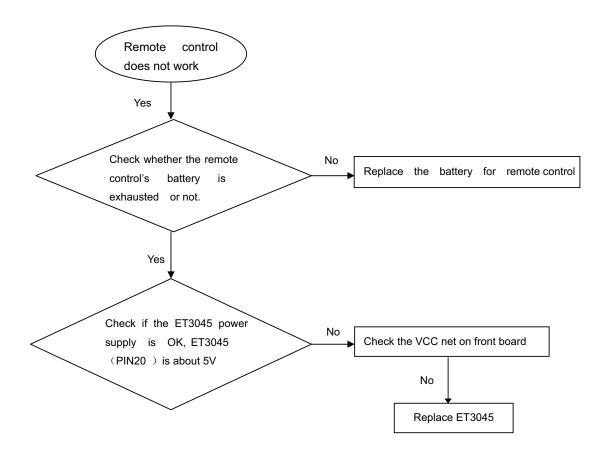
#### No display on VFD, and buttons do not work



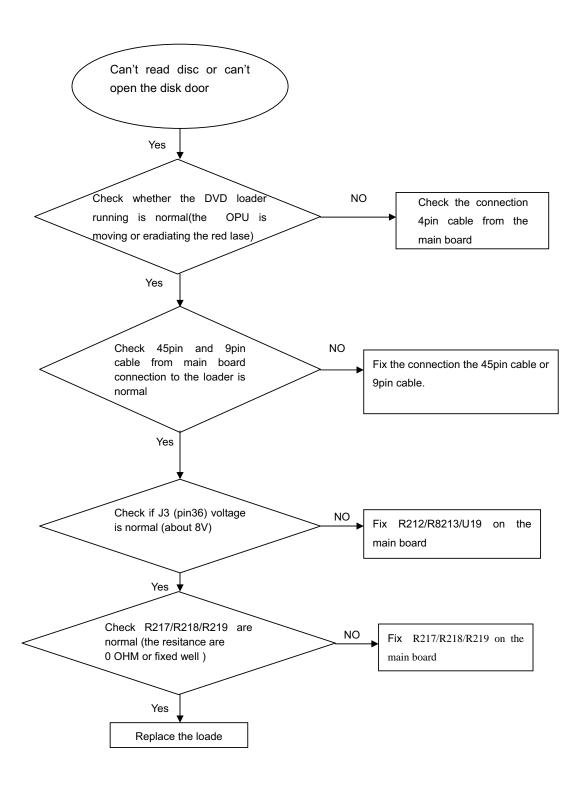
#### No audio output



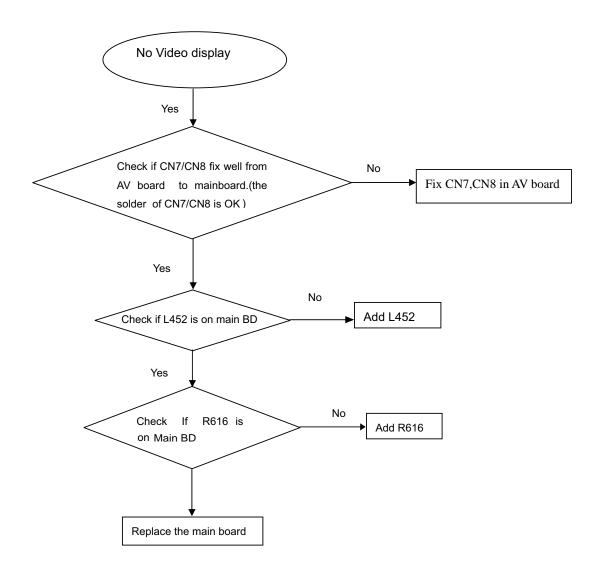
#### Remote control does not work



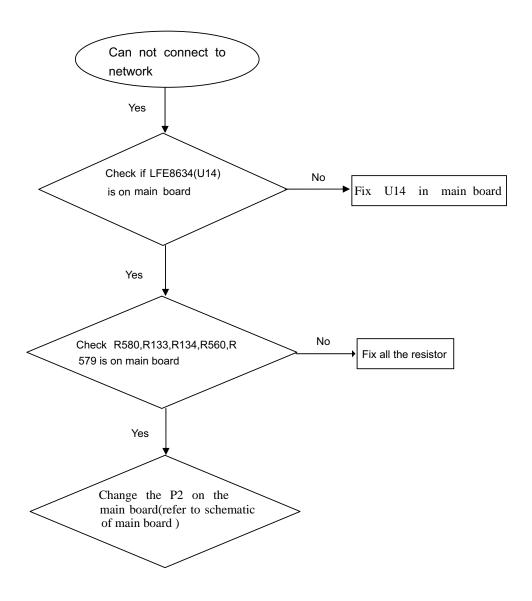
#### Can't read disc or can't open the disk door



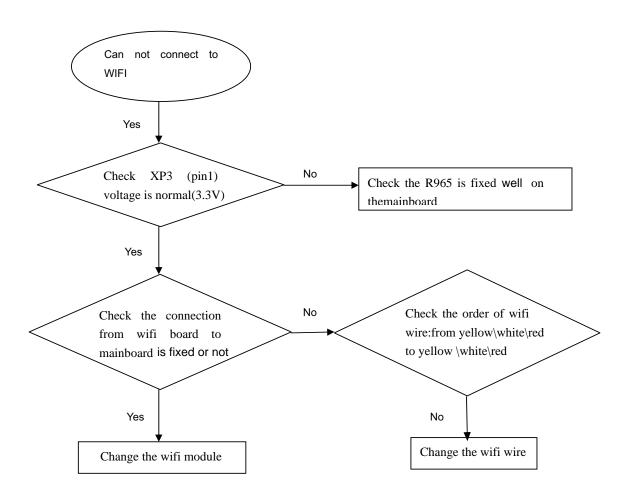
#### No video display

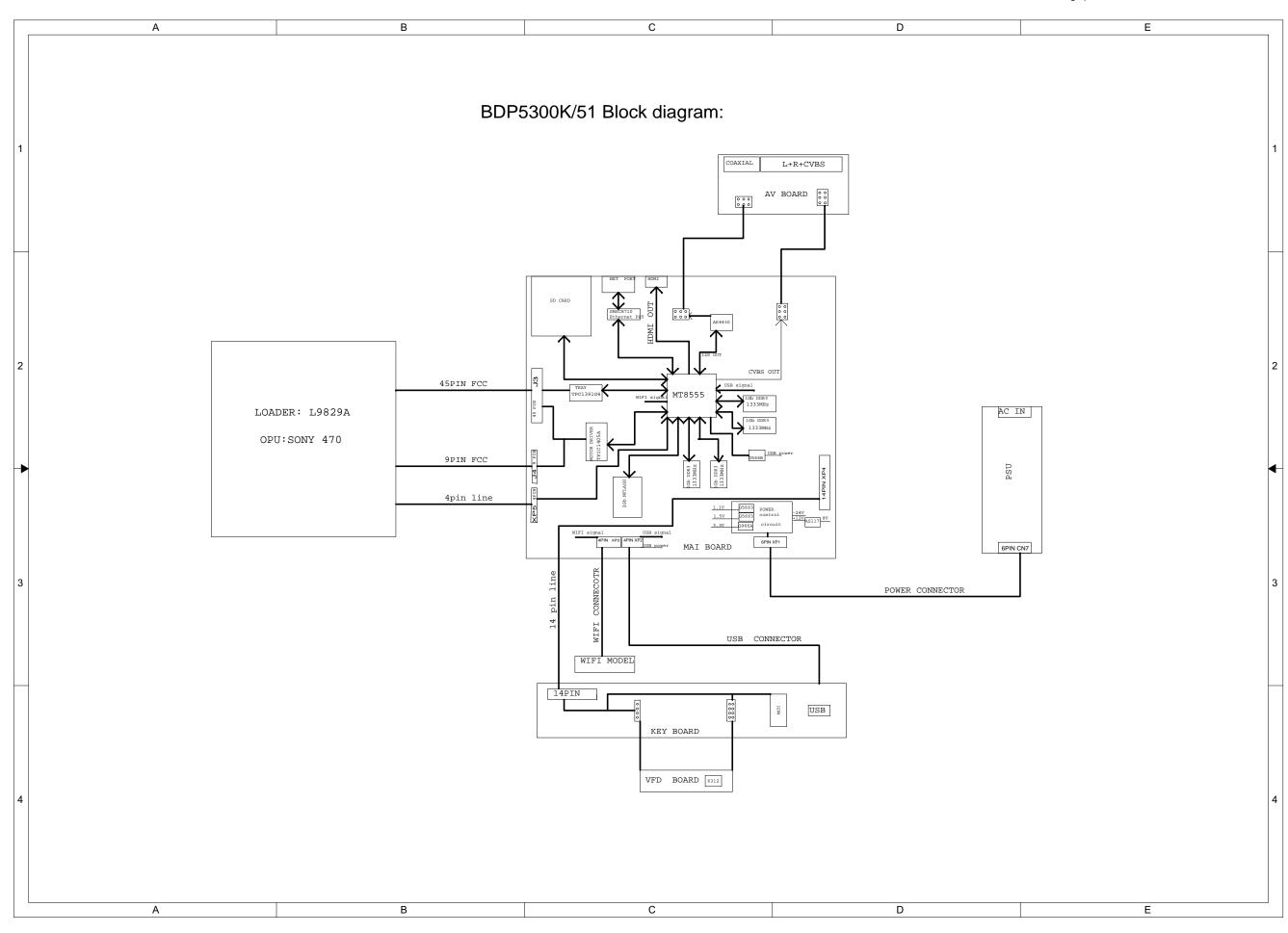


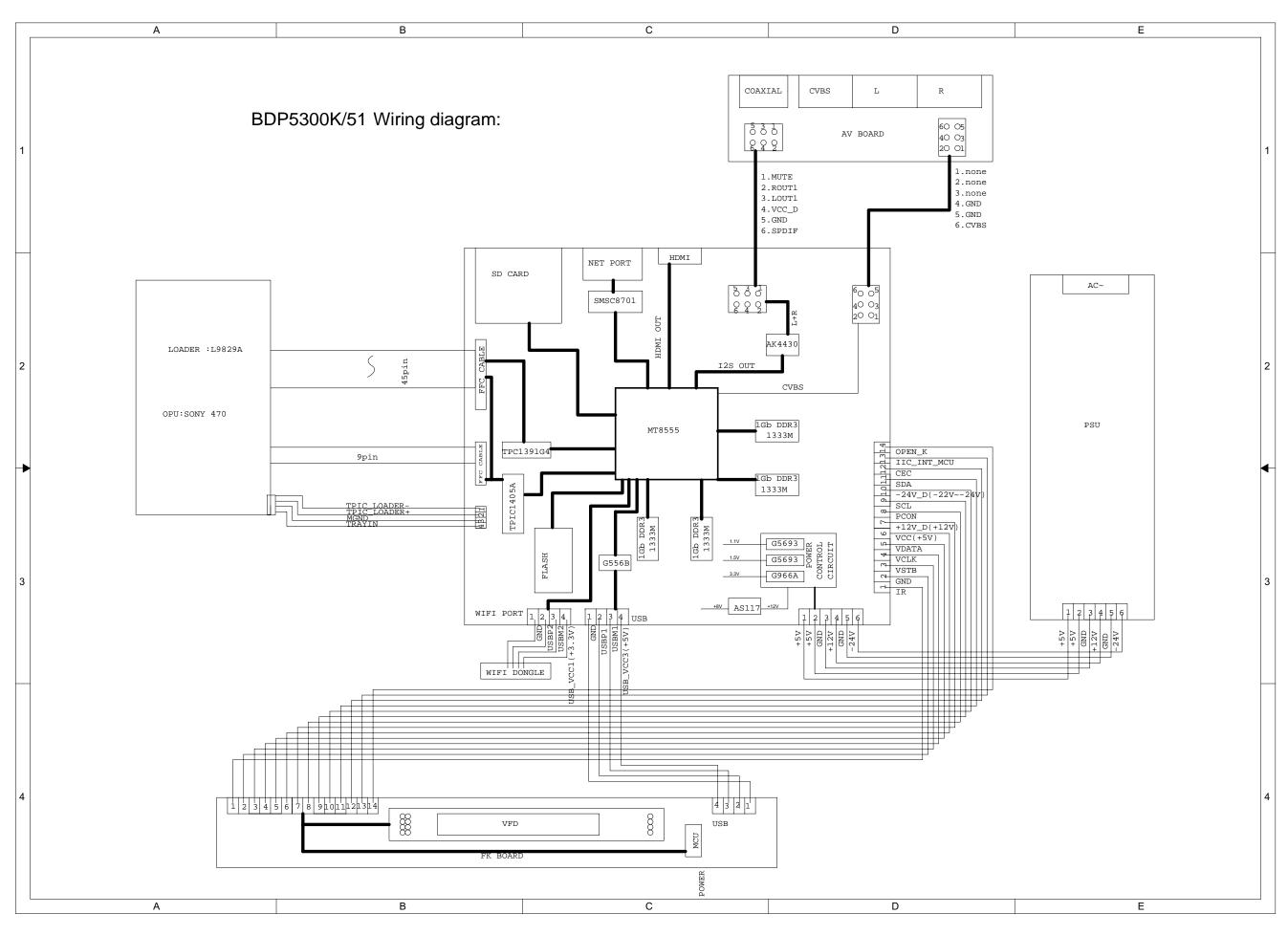
#### Can not connect to network

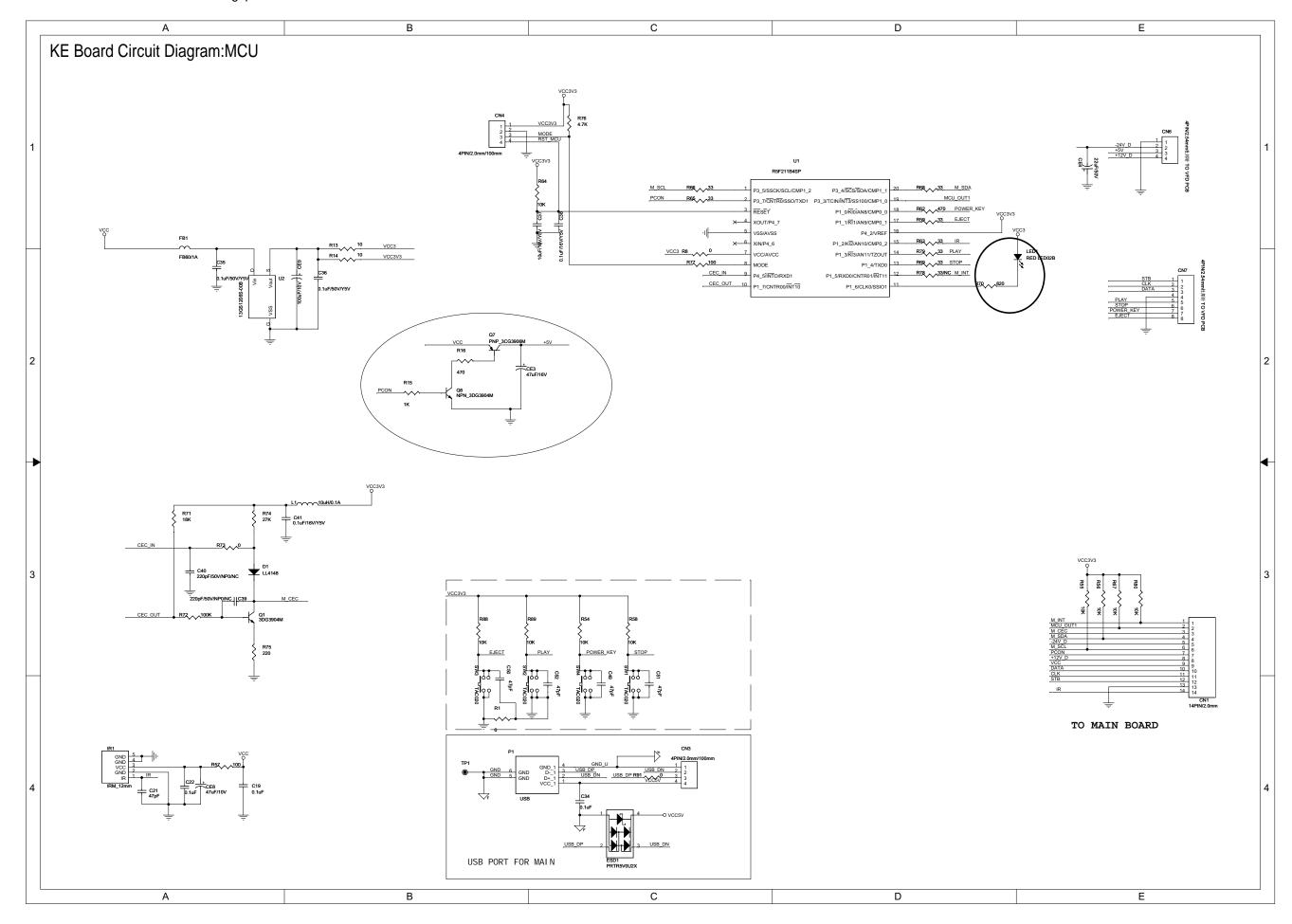


#### Can not connect to WIFI

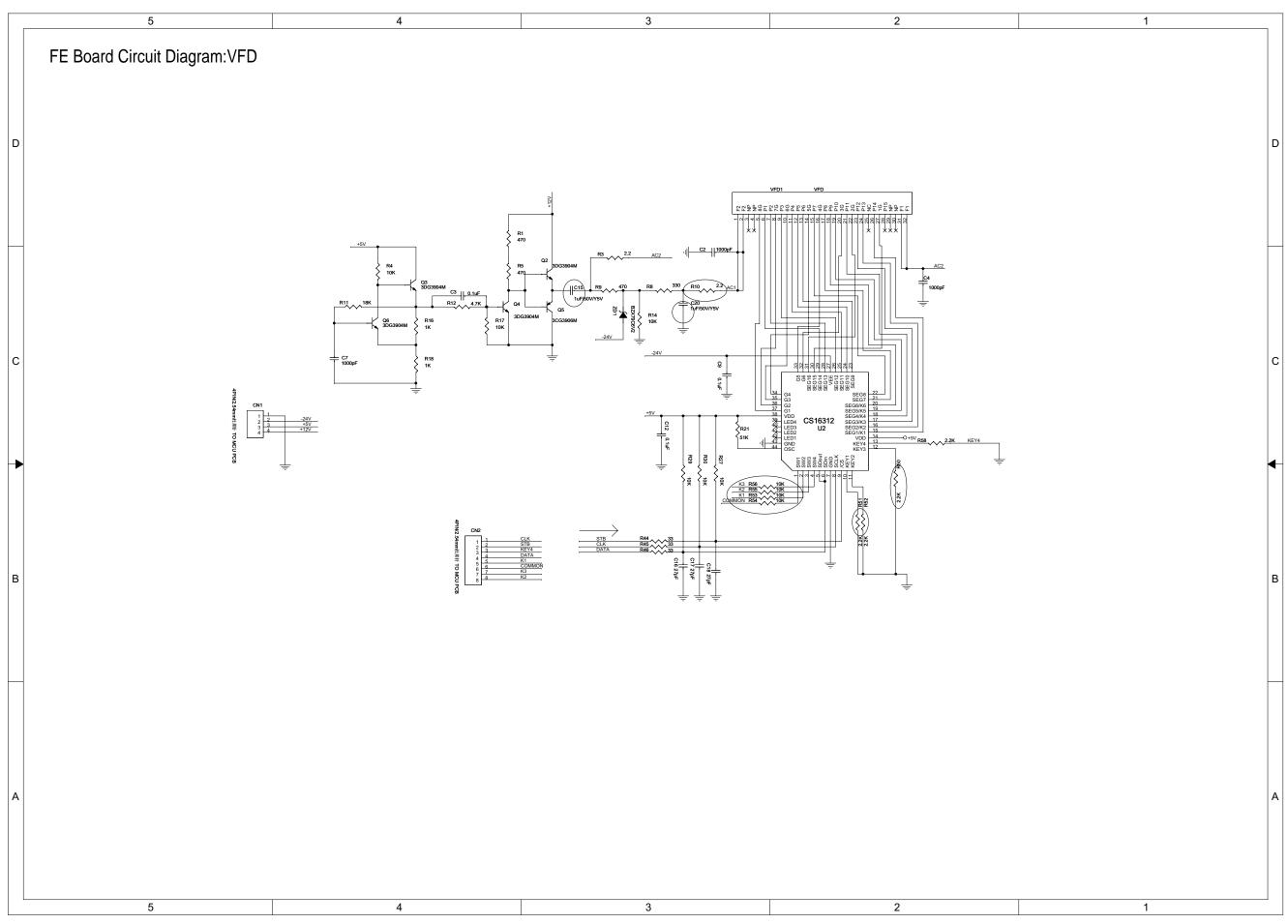


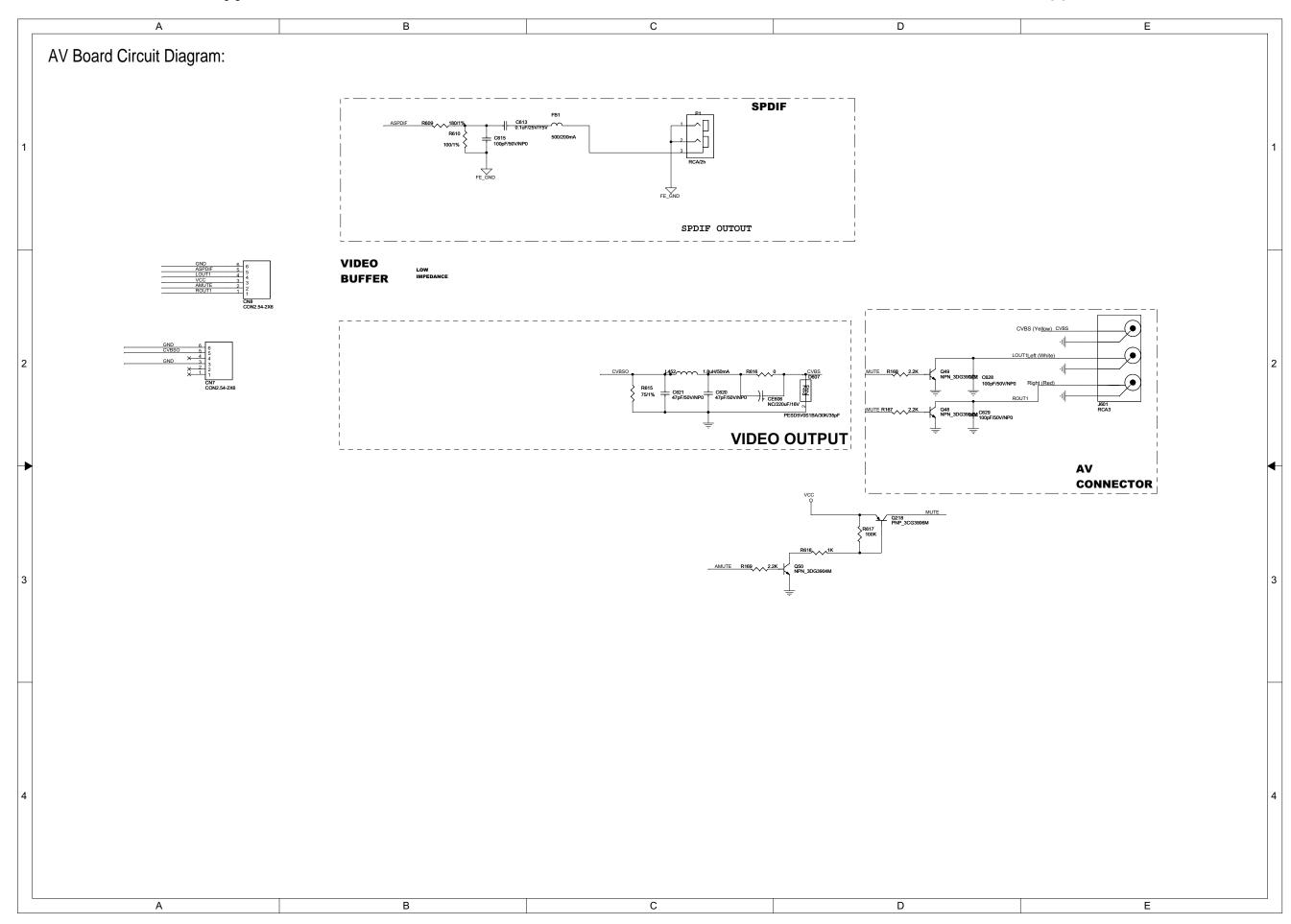


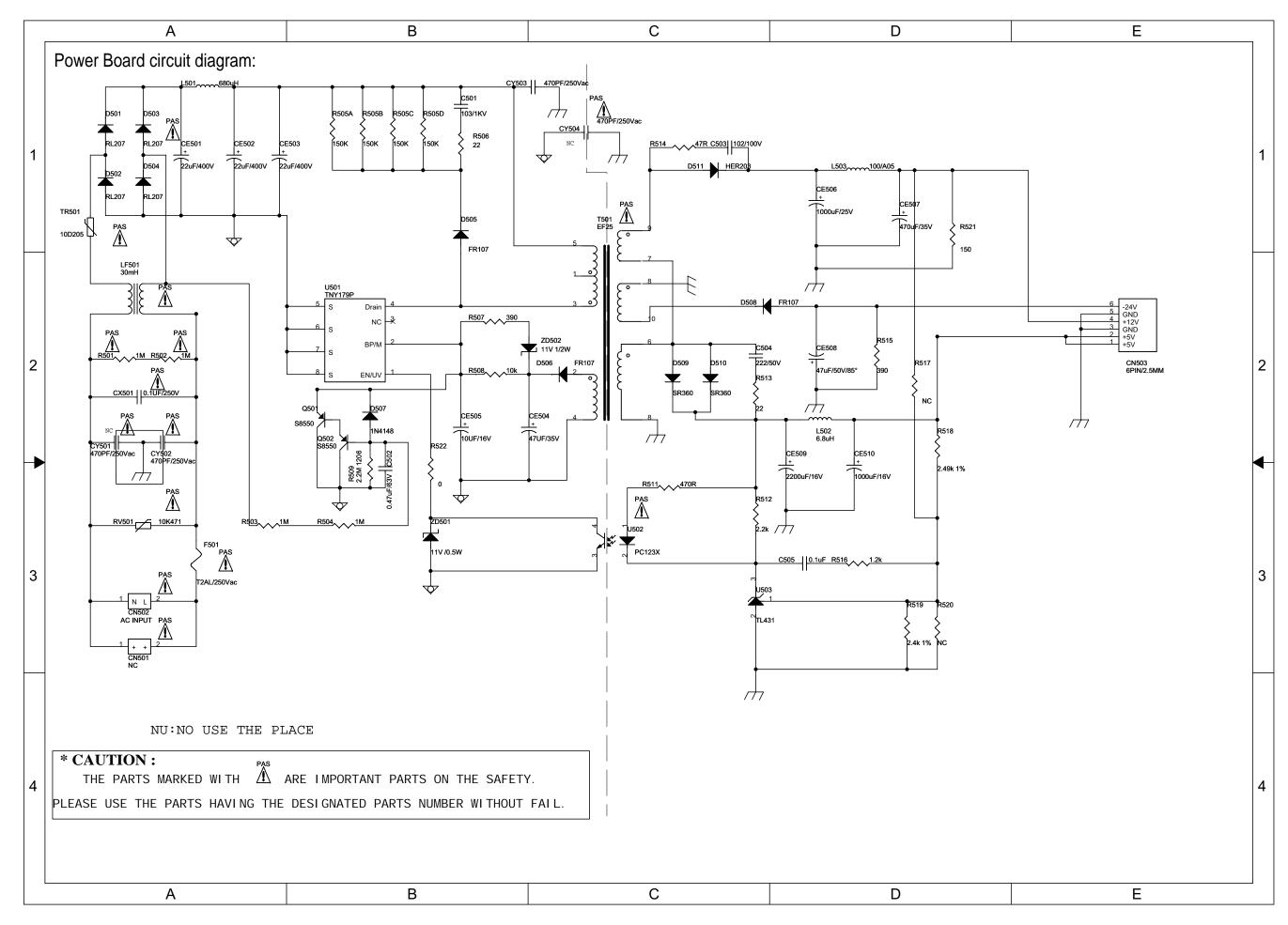




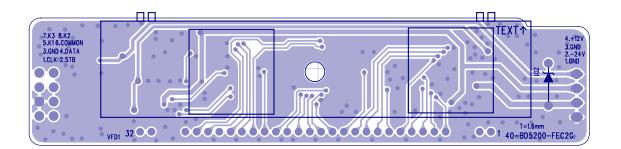


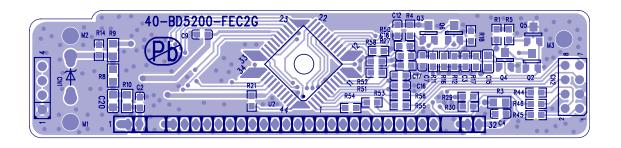




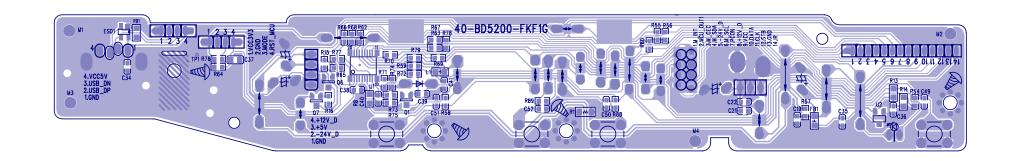


FE Board Print-layout (Top and Bottom side):

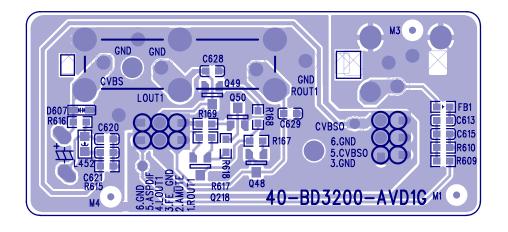




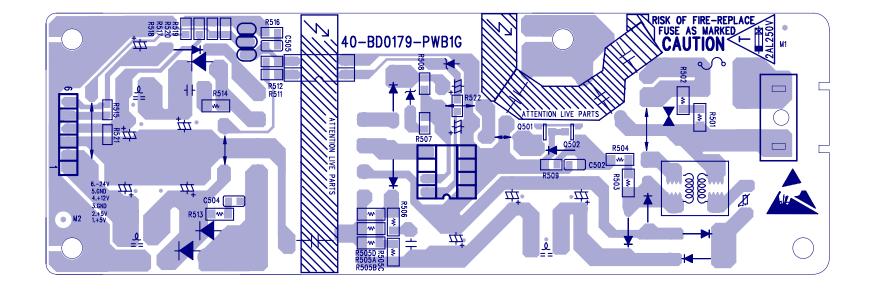
FK Board Print-layout (Bottom side):



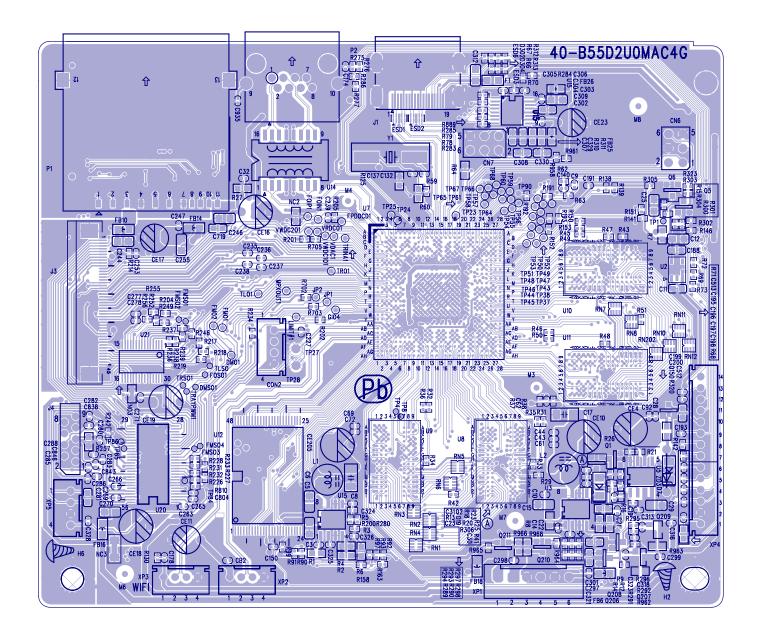
AV Board Print-layout (Bottom side):



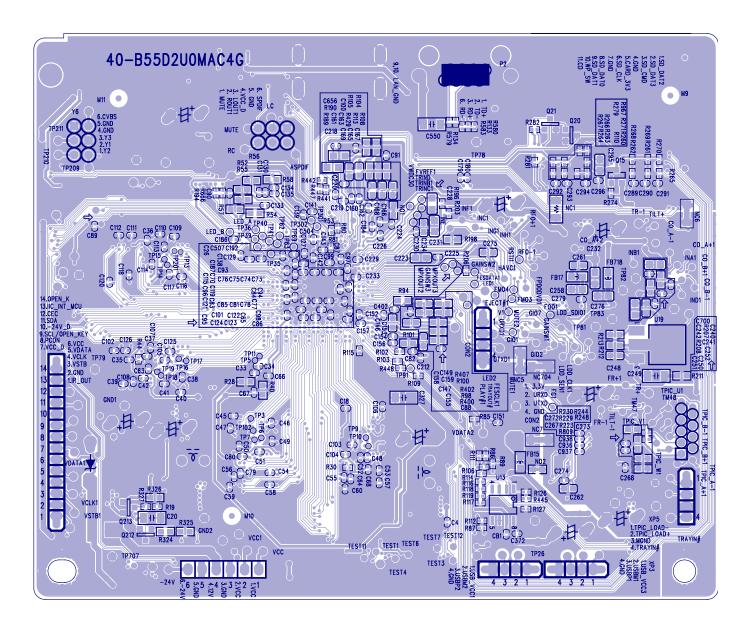
#### Power Board Print-layout (Bottom side):



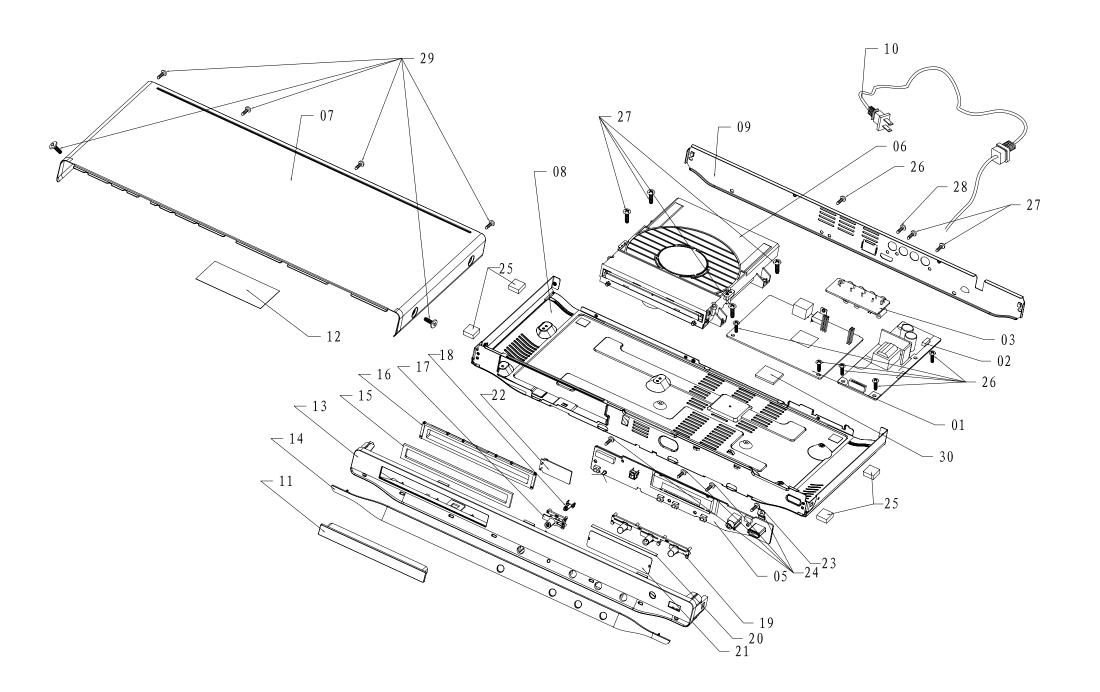
#### Main Board Print-layout (Top side):



Main Board Print-layout (Bottom side):



### Exploded view for BDP5300K/51:



### **REVISION LIST**

### Version 1.0

\* Initial release for BDP5300K/51