DVD Player

DVP3126(K), DVP3146(K), DVP3148K

Service

Service

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DVP3126/94/96/98/51,DVP3126X/94

DVP3126K/56/93/96/98/61/51

DVP3146/94,DVP3146X/94

DVP3146K/93/96/98

DVP3148K/51

Service Manual

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Version 1.2

CLASS 1 LASER PRODUCT

GB 3139 785 32882

PHILIPS

Technical Specifications

TV standard (PAL/50Hz) (NTSC/60Hz)

Number of lines	625	525
Playback	Multi standard	(PAL/NTSC)

Video performance

Video DAC	12 bit, 108MHz
YPbPr	0.7Vpp ---- 75 ohm
Video output	1Vpp ----- 75 ohm

Video format

Digital Compression	MPEG 2 for DVD,SVCD MPEG 1 for VCD DivX® (For DVP3146/94,DVP3146K/98)

DVD	**50Hz**	**60Hz**
Horiz resolution	720 pixels	720 pixels
Vertical resolution	576lines	480 lines

VCD	**50Hz**	**60Hz**
Horiz. resolution	352 pixels	352 pixels
Vertical resolution	288lines	240 lines

Audio format

Digital	**MPEG/AC-3/ PCM**	**Compressed Digital 16, 20, 24bits** fs, 44.1, 48, 96kHz
	MP3(ISO 9660)	96,112,128,256,320kbps & variable bit rate fs,32, 44.1,48 kHz

Analogue Sound Stereo

Dolby surround compatible downmix from Dolby Digital multi-channel sound

Audio performance

DA converter	24bits, 192KHz	
DVD	fs 96kHz	4Hz----44kHz
	fs 48kHz	4Hz----22kHz
SVCD	fs 48kHz	4Hz----22kHz
	fs 44.1kHz	4Hz----20kHz
CD/ VCD	fs 44.1kHz	4Hz----20kHz
Signal-Noise (1kHz)		>90dB
Dynamic Range (1kHz)		>80dB
Cross talk (1kHz)		>70dB
Distortion/Noise (1kHz)		>65dB
MPEG MP3		MPEG Audio L3

6 Channal analog ouput	
Audio Front L/R	Cinch(White/Red)
Audio Rear L/R	Cinch(White/Red)
Audio Center	Cinch(Blue)
Audio Subwoofer	Cinch(Black)

Connections

YPbPr output	Cinch 3x
Video output	Cinch(yellow)
Audio output (L+R)	Cinch (white/red)
Digital output	1 coaxial IEC60958 for CDDA/ LPCM IEC61937 for MPEG1/2, Dolby Digital

Cabinet

Dimensions (w X h X d)	360 x 37 x 209 mm /360 x 38 x 209 mm
Weight	Approximately 1.35kg

Power consumption

Power supply Rating	110V -240V; 50/60HZ
Power consumption	<10W
Power consumption in standby mode	<1W

Specifications subject to change without prior notice.

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 unplug).
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 1MΩ.
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 handing 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 handing 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.

Mechanical and Dismantling Instructions

Dismantling Instruction

The following guideline is a general instruction for how to dismantle the player, Detailed operation done according the set unit.
Step1: Remove 5 screws around the Top Cover, then remove the Top Cover (Figure 1).

Figure 1

Step2: If it is necessary to dismantle Loader or Front Panel, It should be remove the Front door assembly first. (Figure 2)
Note: Make sure to operate gently otherwise the guider would be damaged.

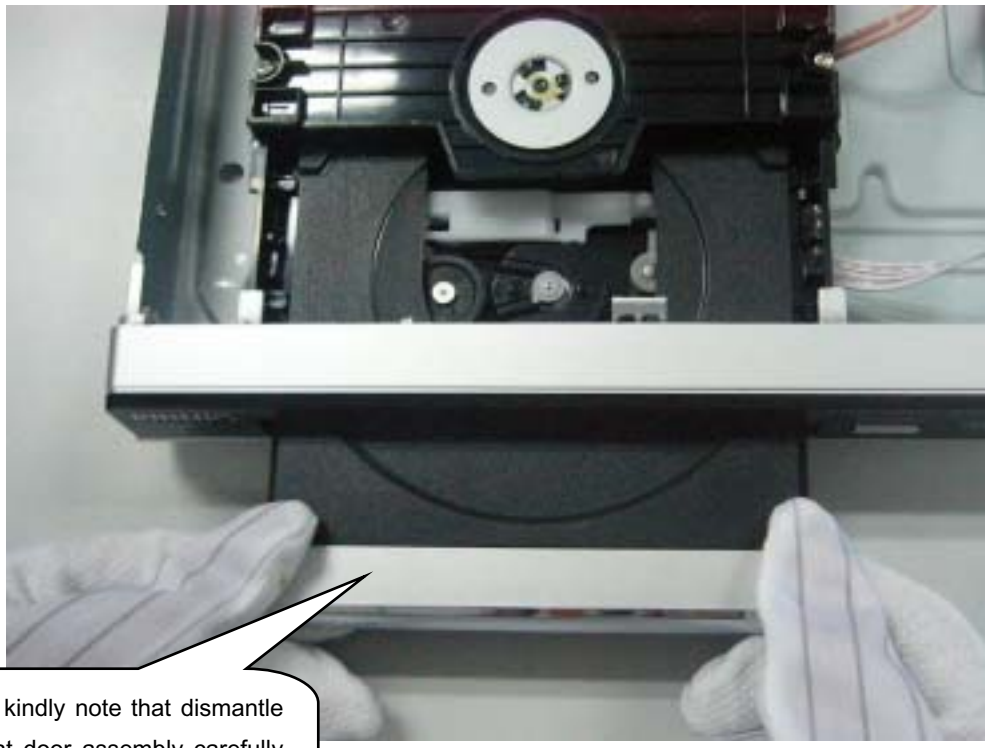


Figure 2

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

Mechanical and Dismantling Instructions

Dismantling Instruction

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.

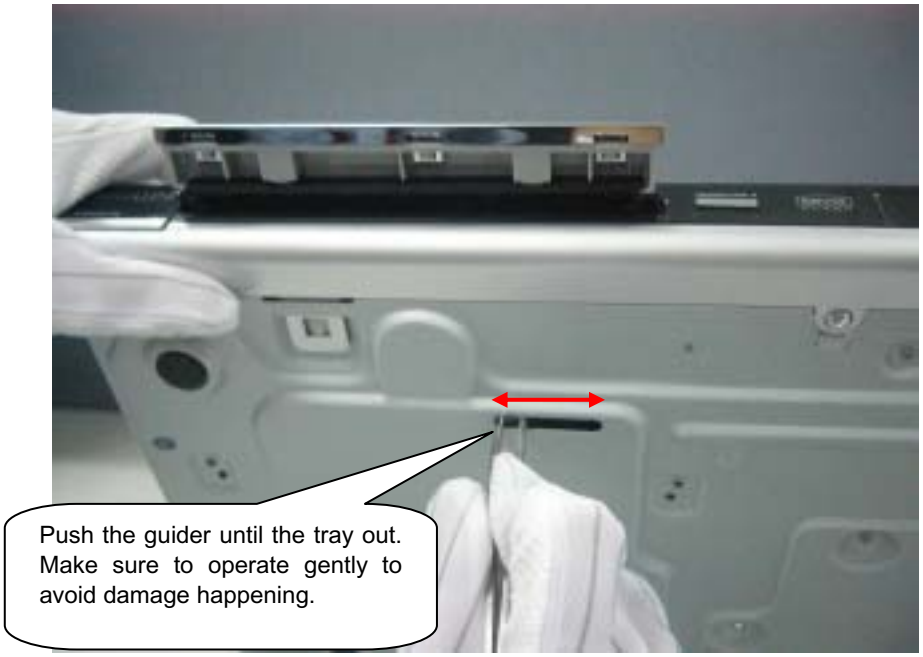


Figure 3

Step4: Dismantling Loader, disconnect the 3 connectors aiming in the below figure, and remove 1 screw around the Loader. (Figure 4)

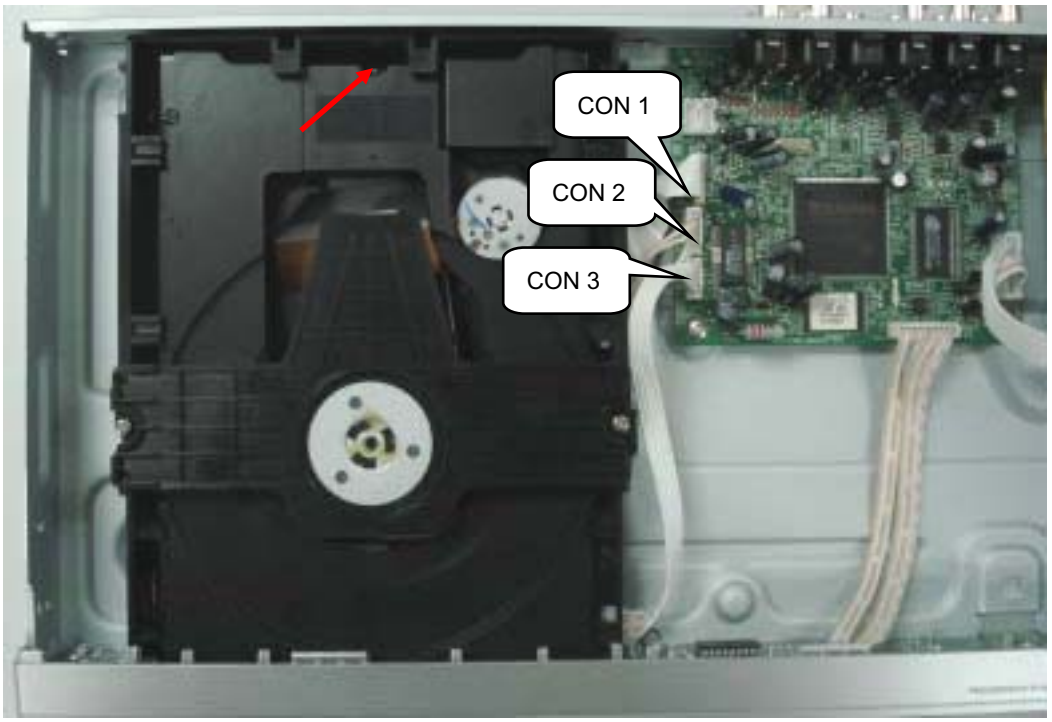


Figure 4

Mechanical and Dismantling Instructions

Dismantling Instruction

Step5: Dismantling Front Panel, disconnect the 1 connector, then release the snaps on the both sides of Front Panel and bottom cabinet , then gently pull the Panel out from the set. (Figure 5 & 6 & 7)

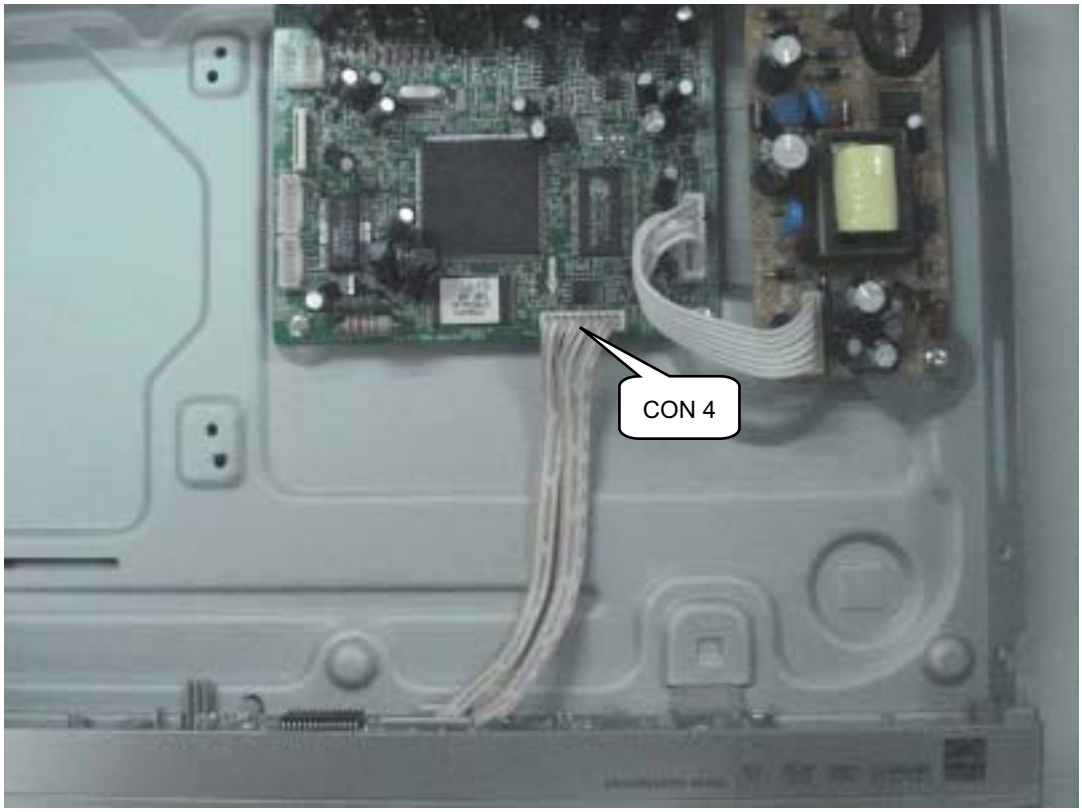


Figure 5

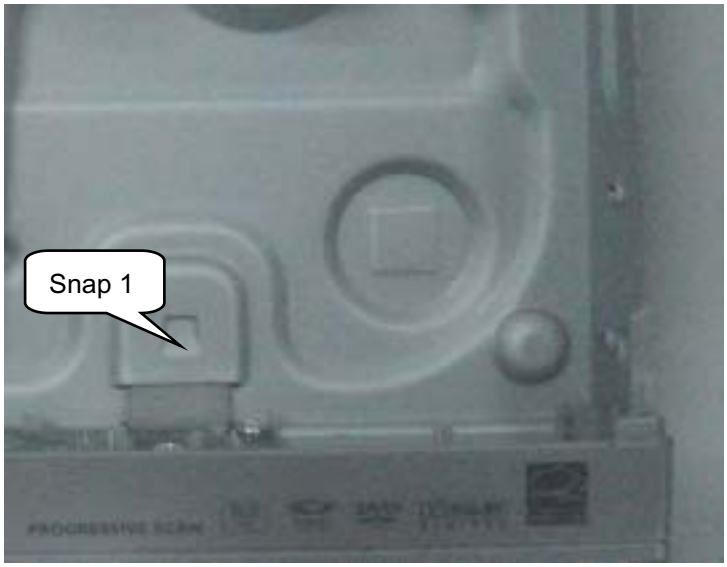


Figure 6

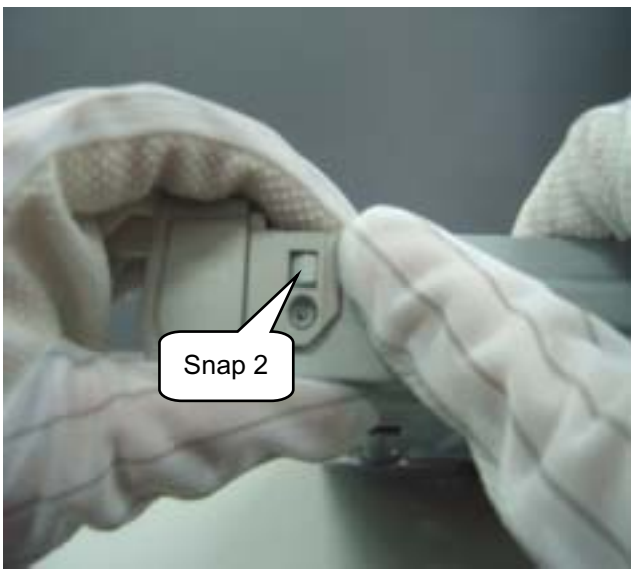


Figure 7

Mechanical and Dismantling Instructions

Dismantling Instruction

Step6: Dismantling Main Board, first disconnect the 1 connector, then remove 4 screws to remove the Main board. (Figure 8)

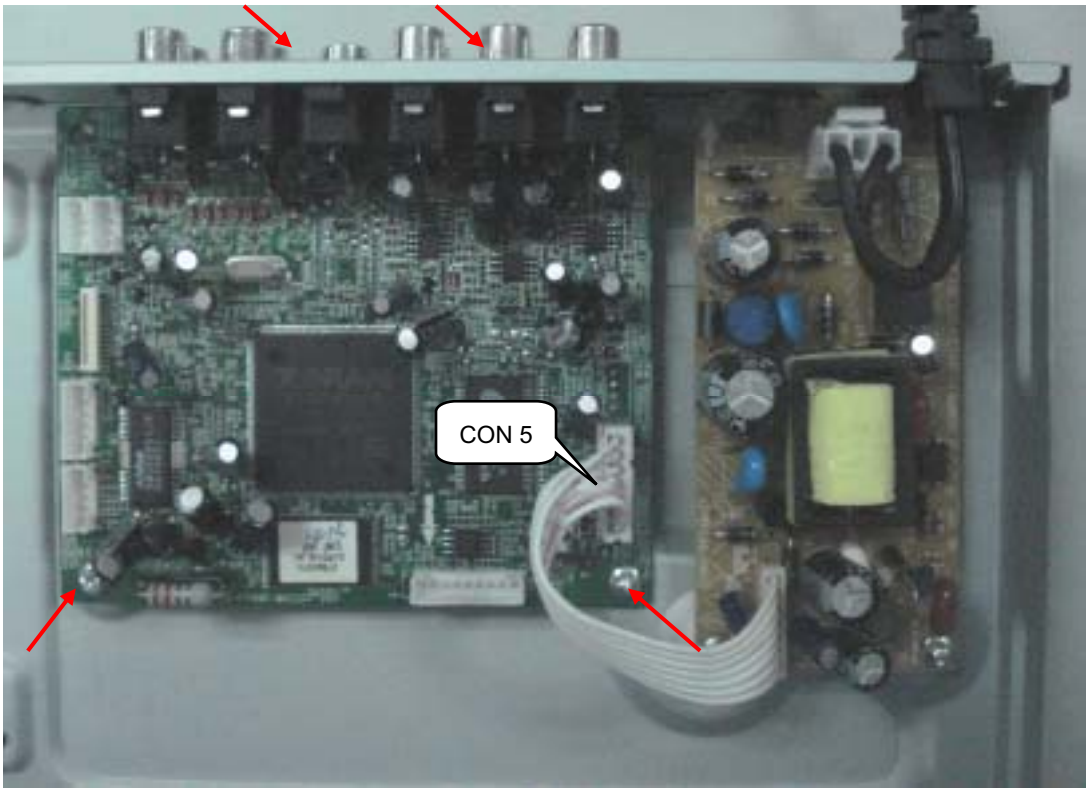


Figure 8

Step7: Remove the 2 screws on Power Board to dismantle the Power Board. (Figure 9)

Figure 9

Software upgrade

Preparation to upgrade software

1) Start the CD Burning software and create a new CD project (Data Disc) with the following setting:
   Label: DVP3XXX (No need the label name)

Note: It is required capital letter for the File System name, and it no need have the File name during start the CD burning software for Zoran project.

2) Burn the data onto a blank CDR

A. Procedure for software upgrade:

1) Power on the set and insert the prepared Upgrade CDR.
2) The set will starts reading disc & response with the following display TV screen:

   Loading

   Firmware Upgrade Erase and program.

   Start Cancel

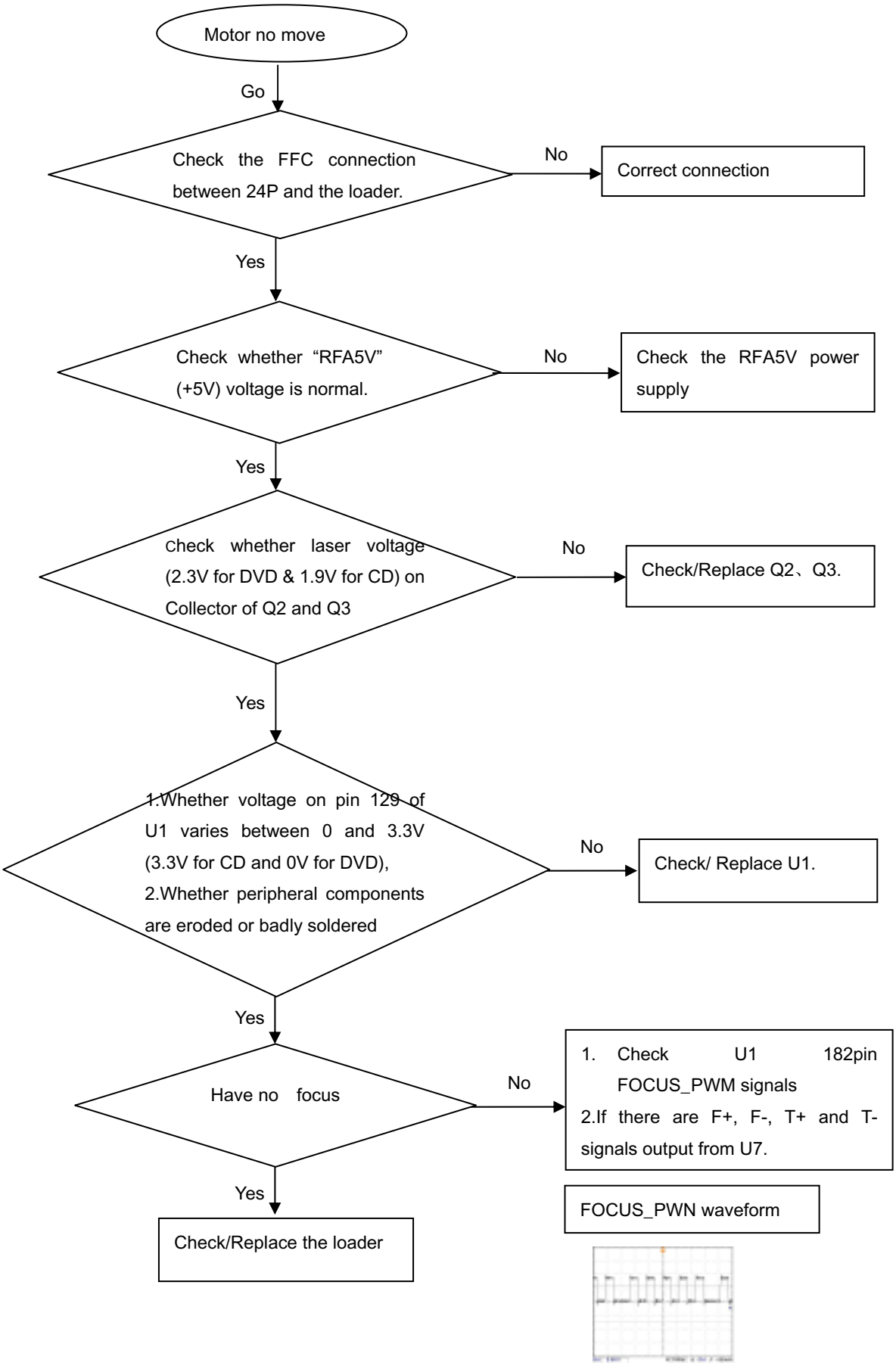
   Select Start to start upgrade.
3) Press <OK> button to confirm, then screen will display :
   Firmware Upgrade Programming, Please Wait...
   Do not Switch the Player Off !
4) The upgraded disc will automatically out when files coping complete, then take out the disc.
5) About 1 minute later, the tray will automatically close when upgrading complete.

B. Read out the software versions to confirm upgrading

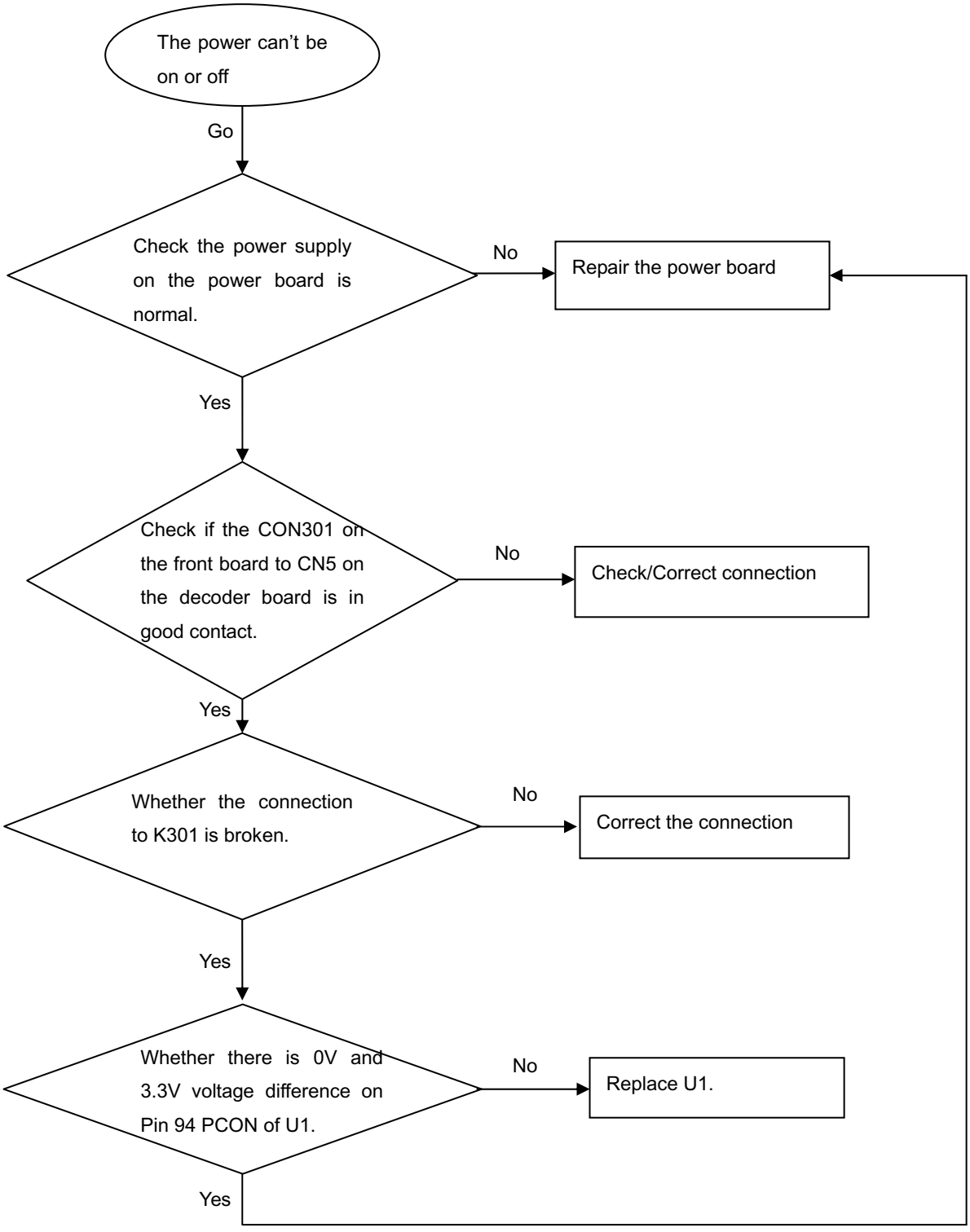
1) Power on e set and Open the tray door.
2) Press <9><6><6>button to check the software information.
   The software version and other information are display on the TV screen as follows:
   BE Version: DVP3XXXXX_XX.XX
   FE Version: DCX.XXXXXX.XX.XX
   DSP Version: DSP.XX
   Region Code: X

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

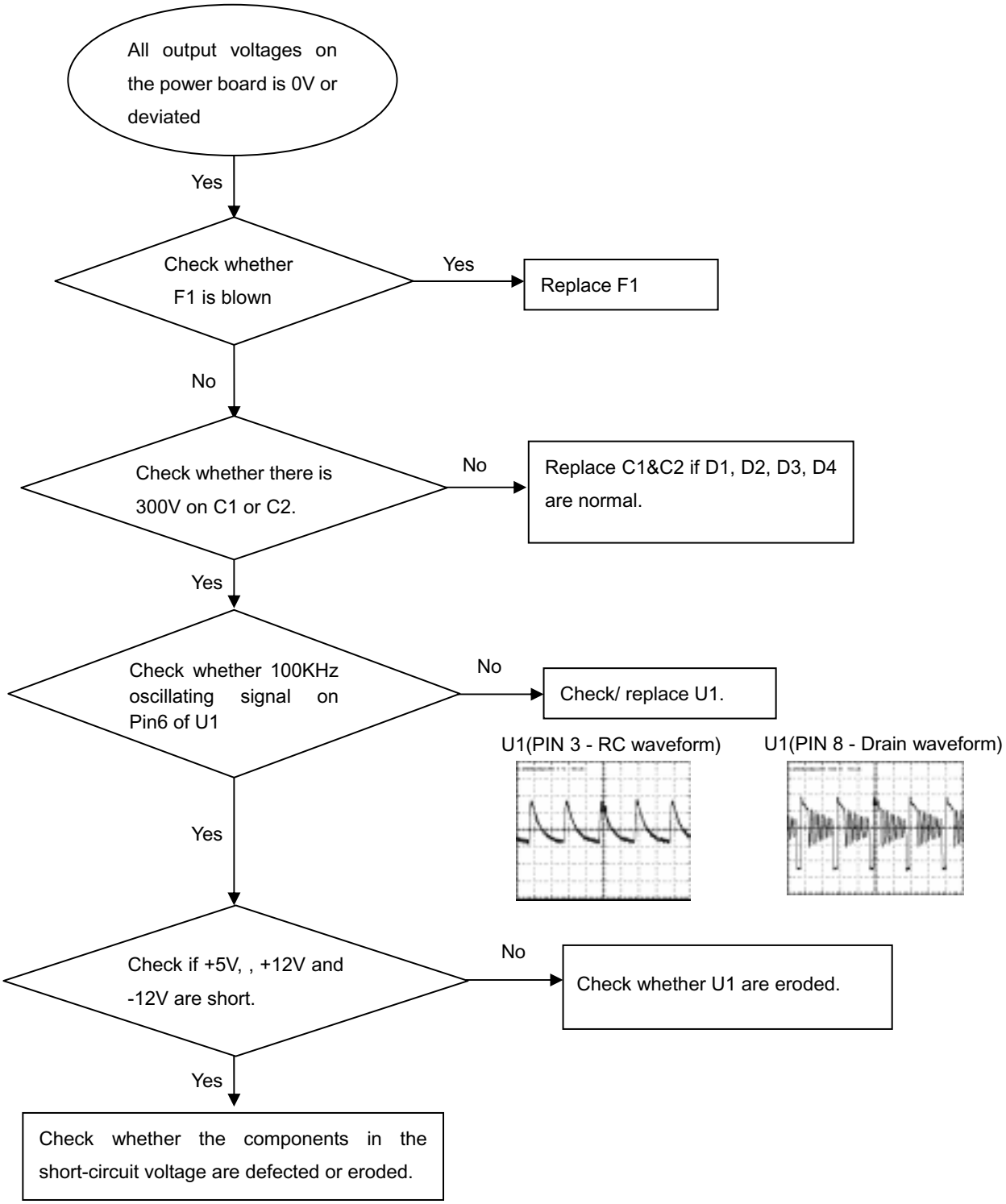
Spindle motor does not move



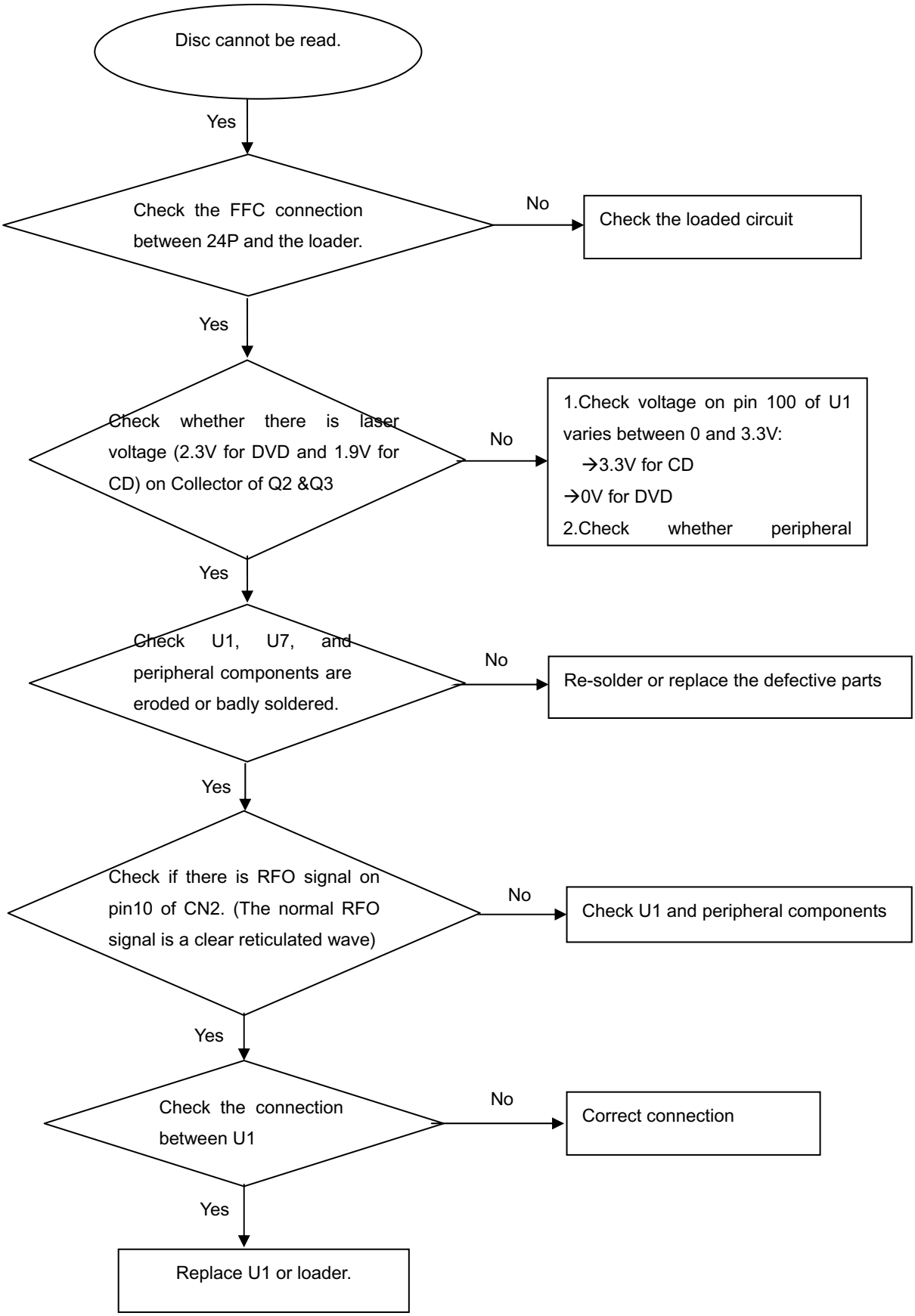
The power can not be on or off



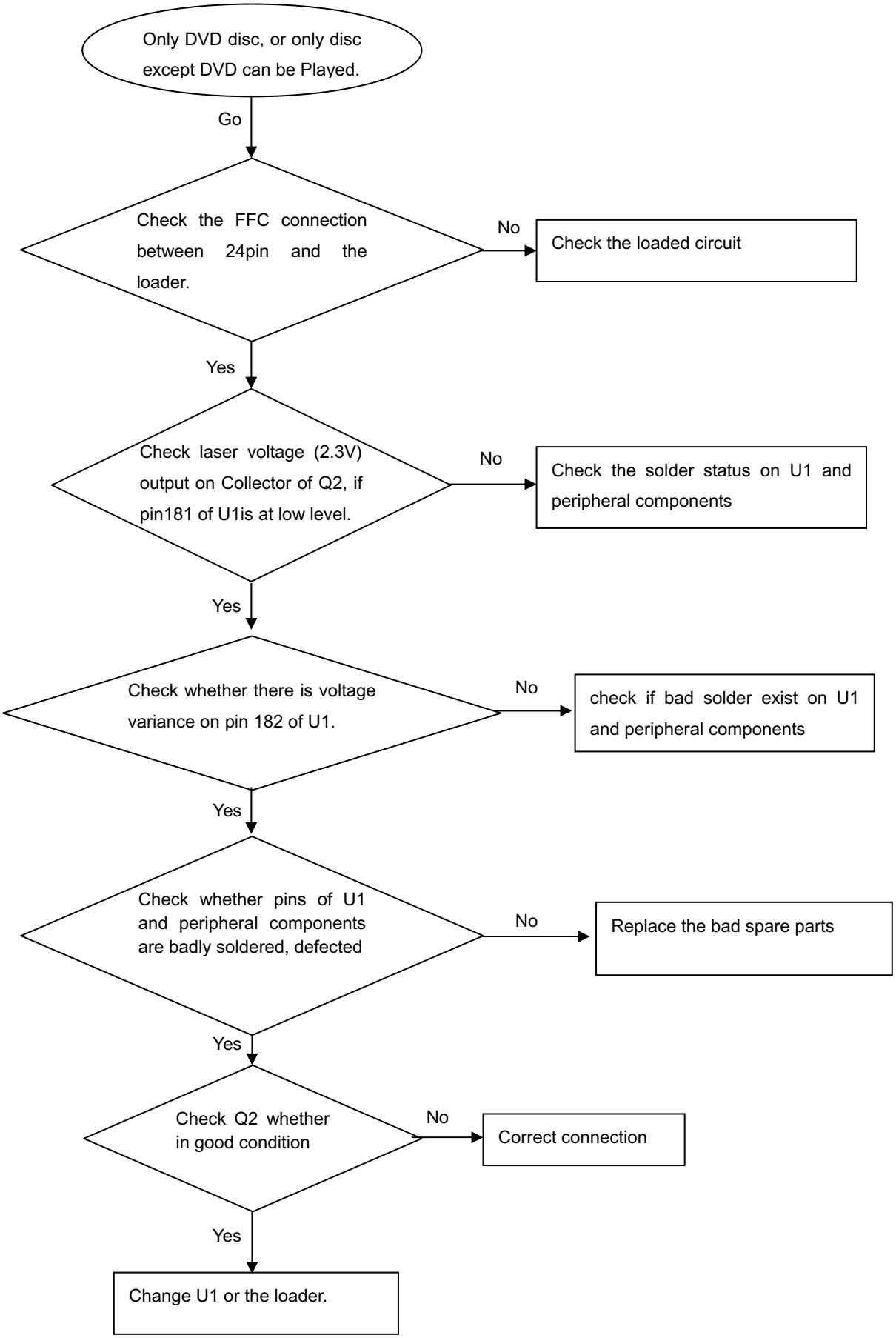
All output voltages on the power board is 0V or deviated.



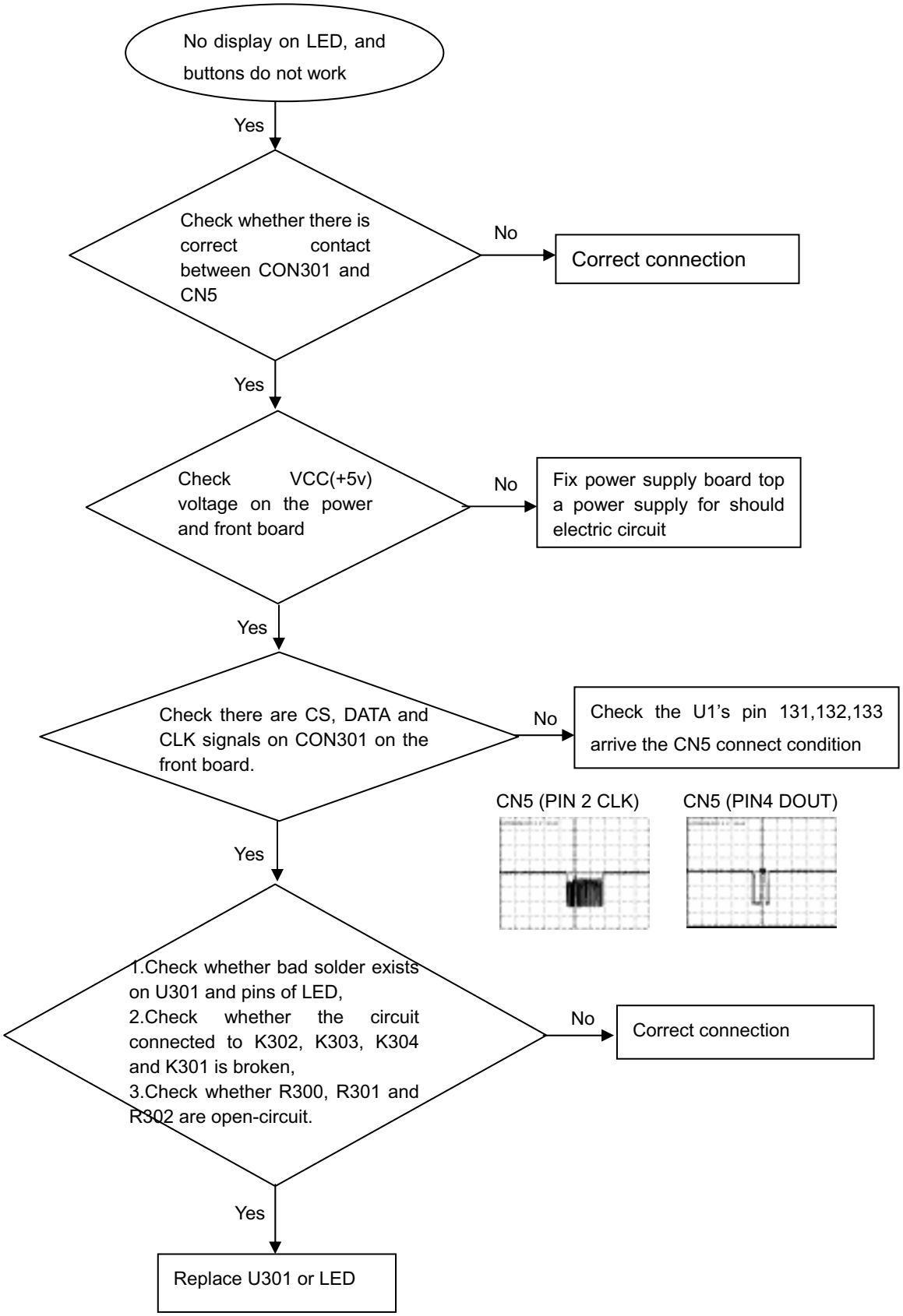
Disc cannot be read.



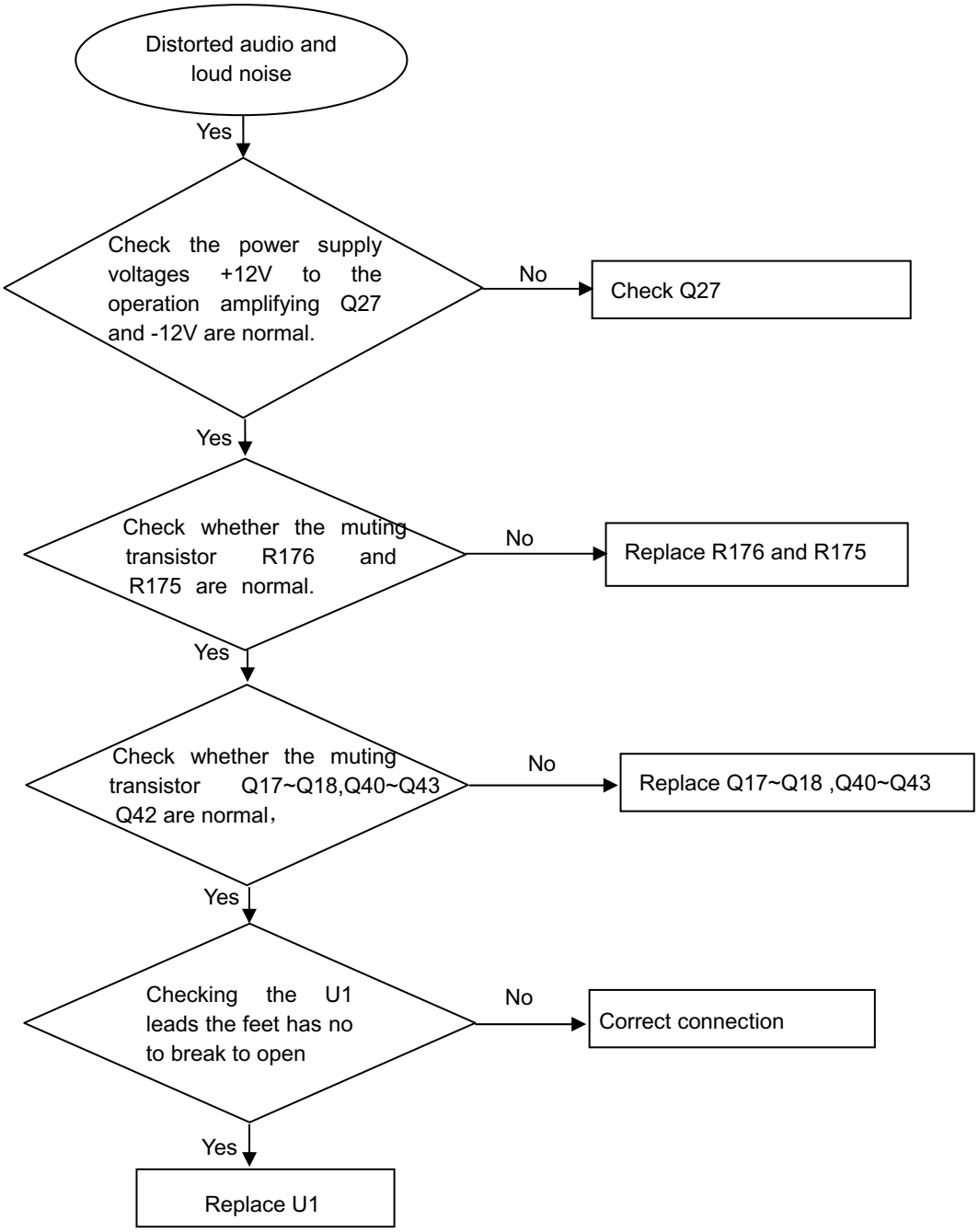
Only DVD disc or only disc except DVD can be played



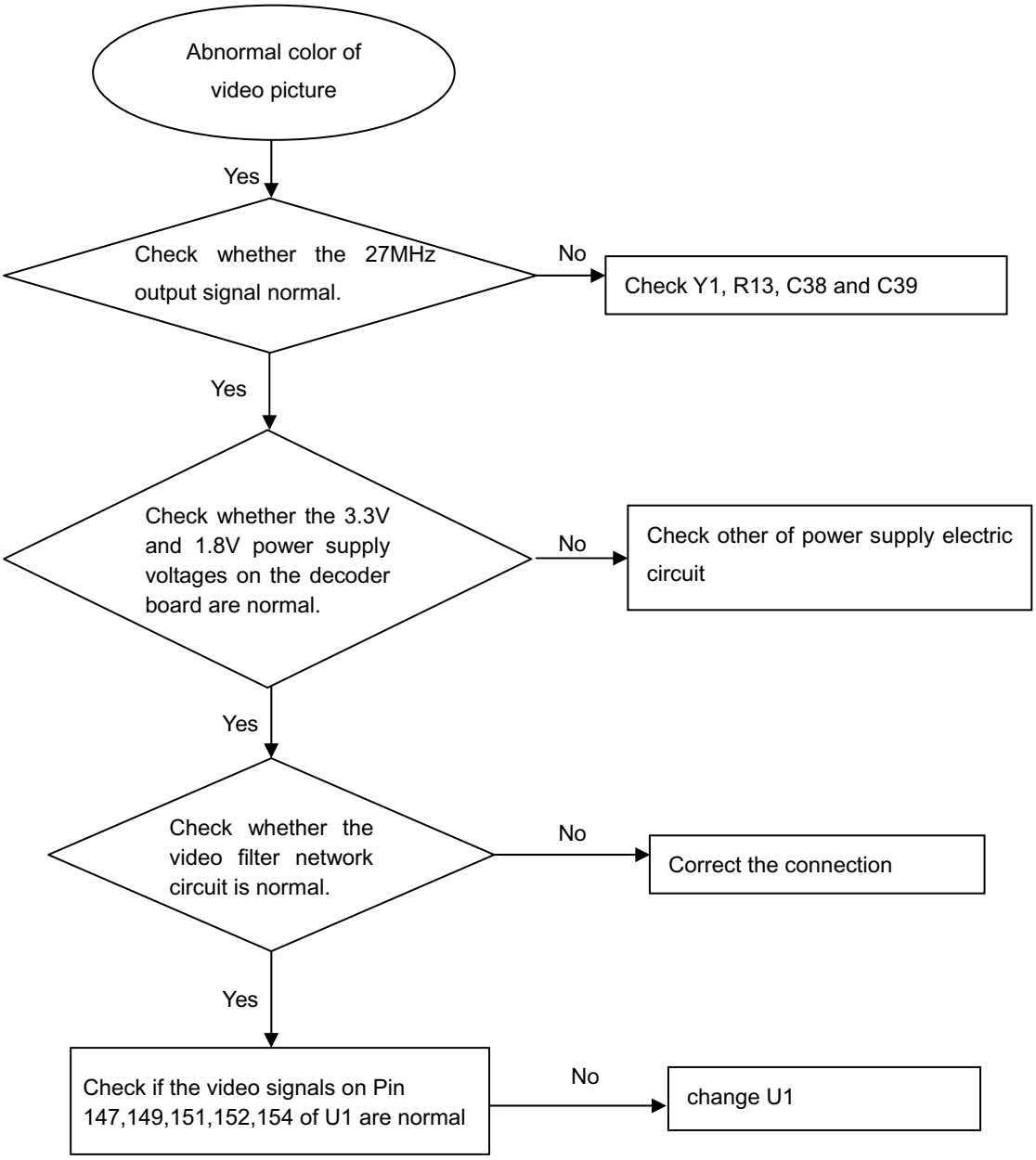
No display on LED, and buttons do not work



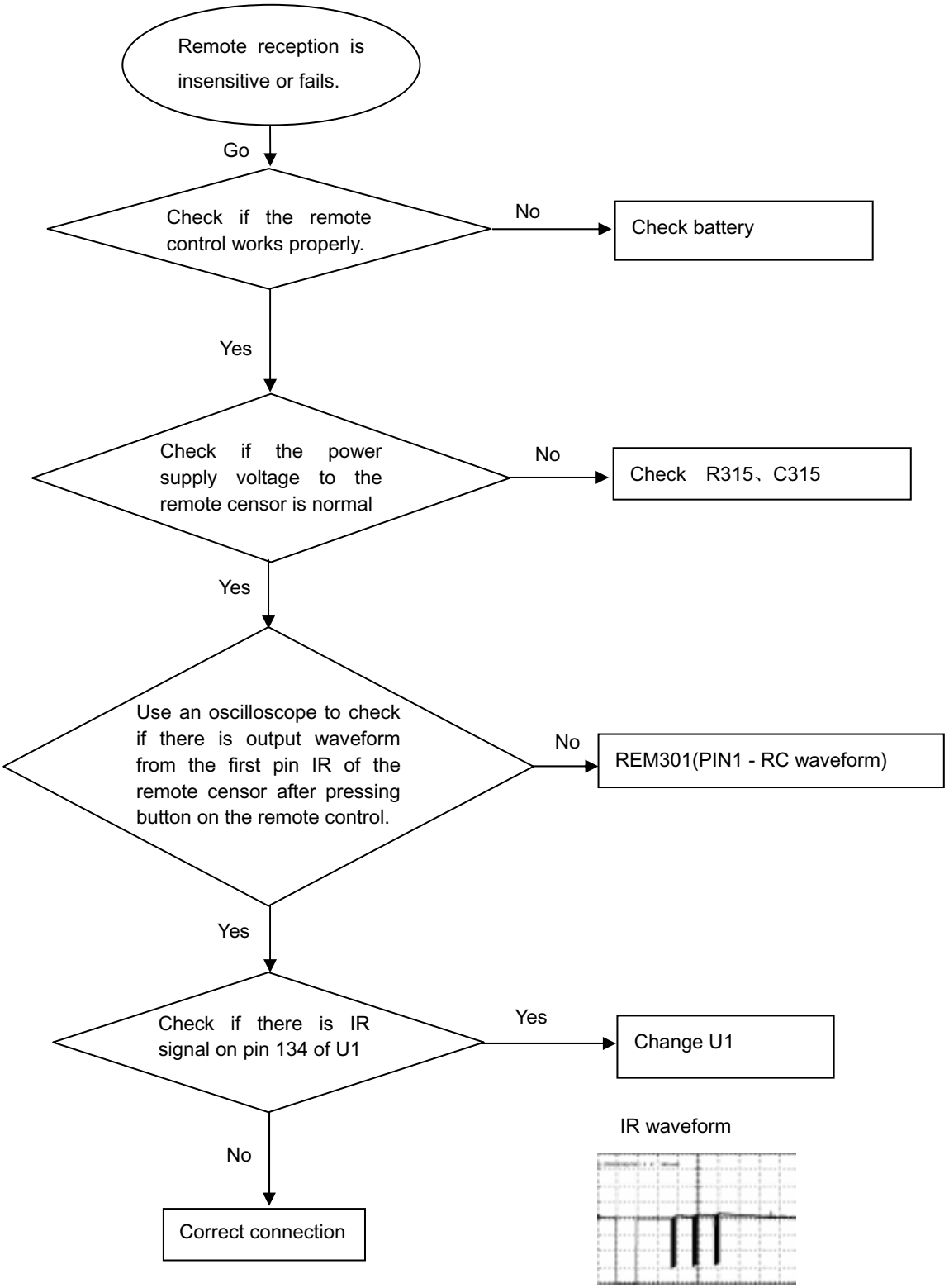
Distorted audio and loud noise



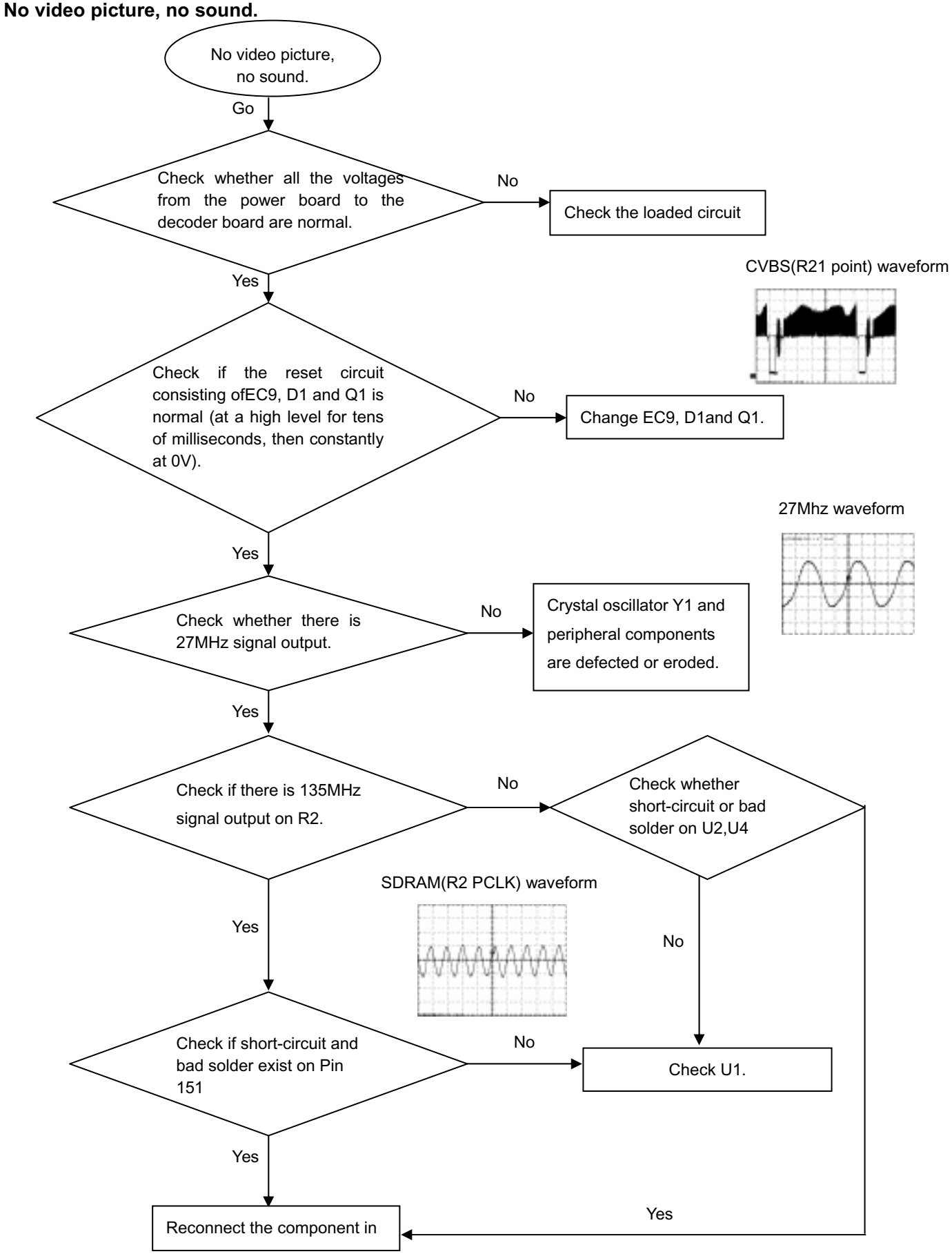
Abnormal color of video picture



Remote reception is insensitive or fails.

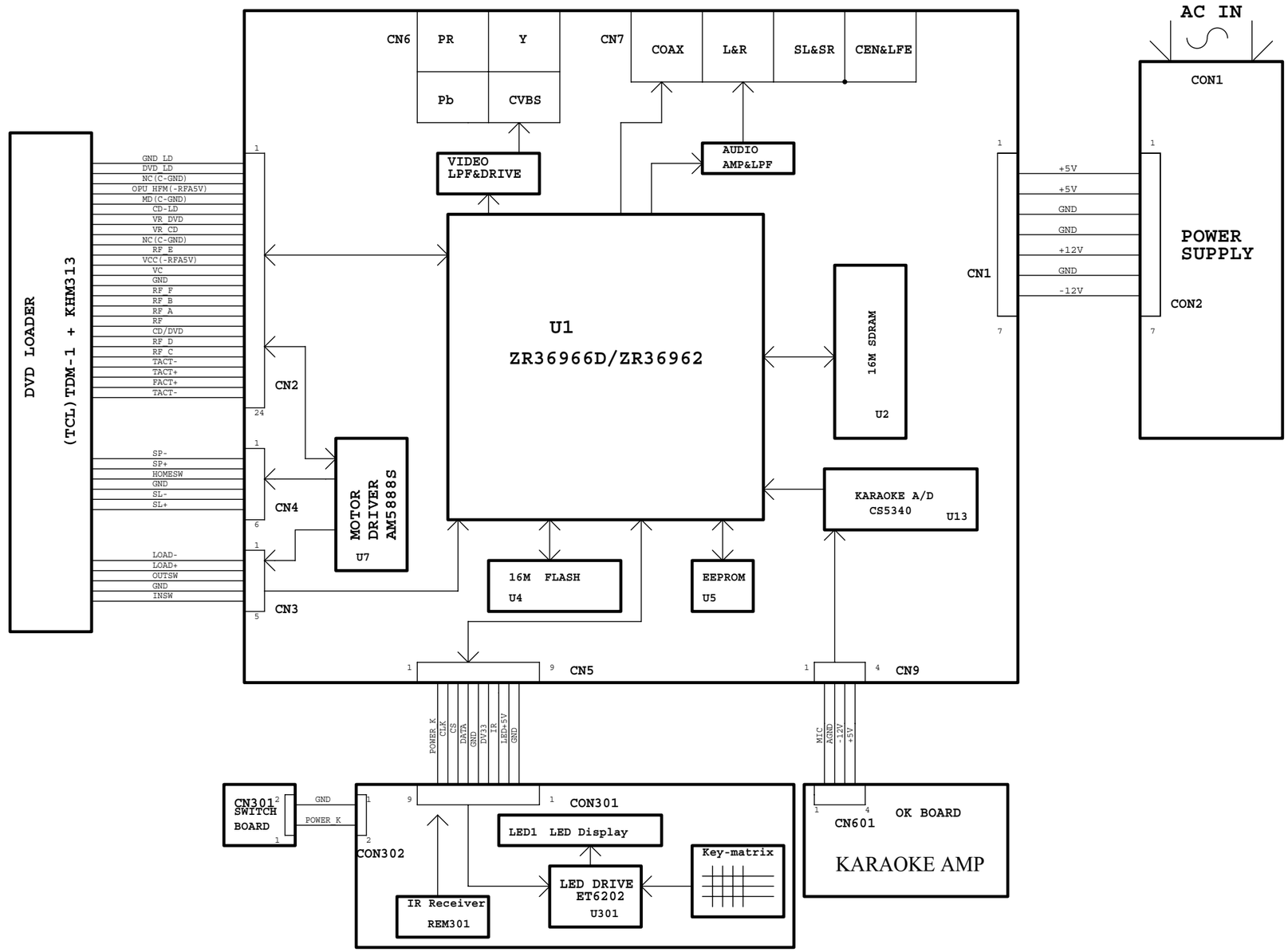


No video picture, no sound.



5-1

DVP3126(K)/XX, DVP3146(K)/XX,DVP3148K/XX WIRING DIAGRAM

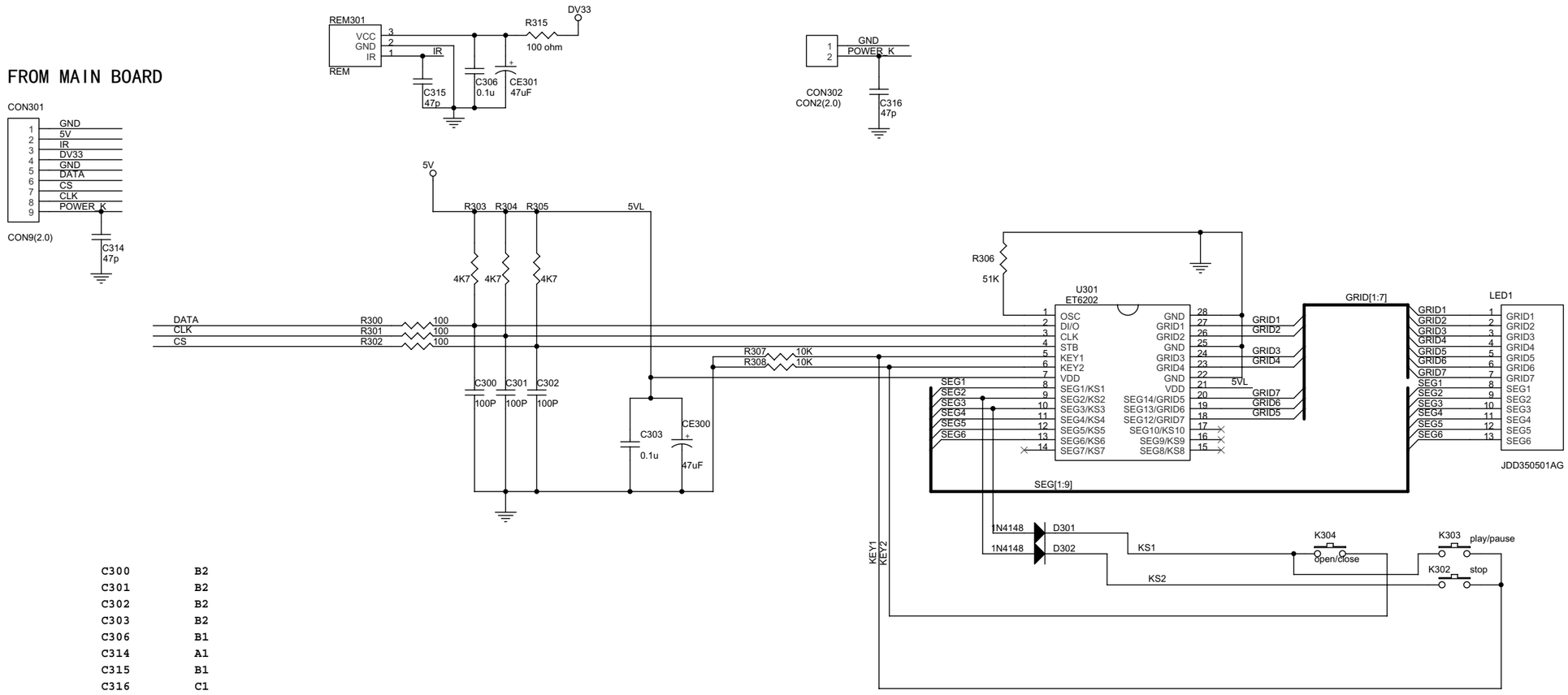


Remark:DVP3146 DVP3126 have no Karaoke.

Remark:DVP3146(K) USE ZORAN36966,DVP3126(k) USE ZORAN36962.

6-1

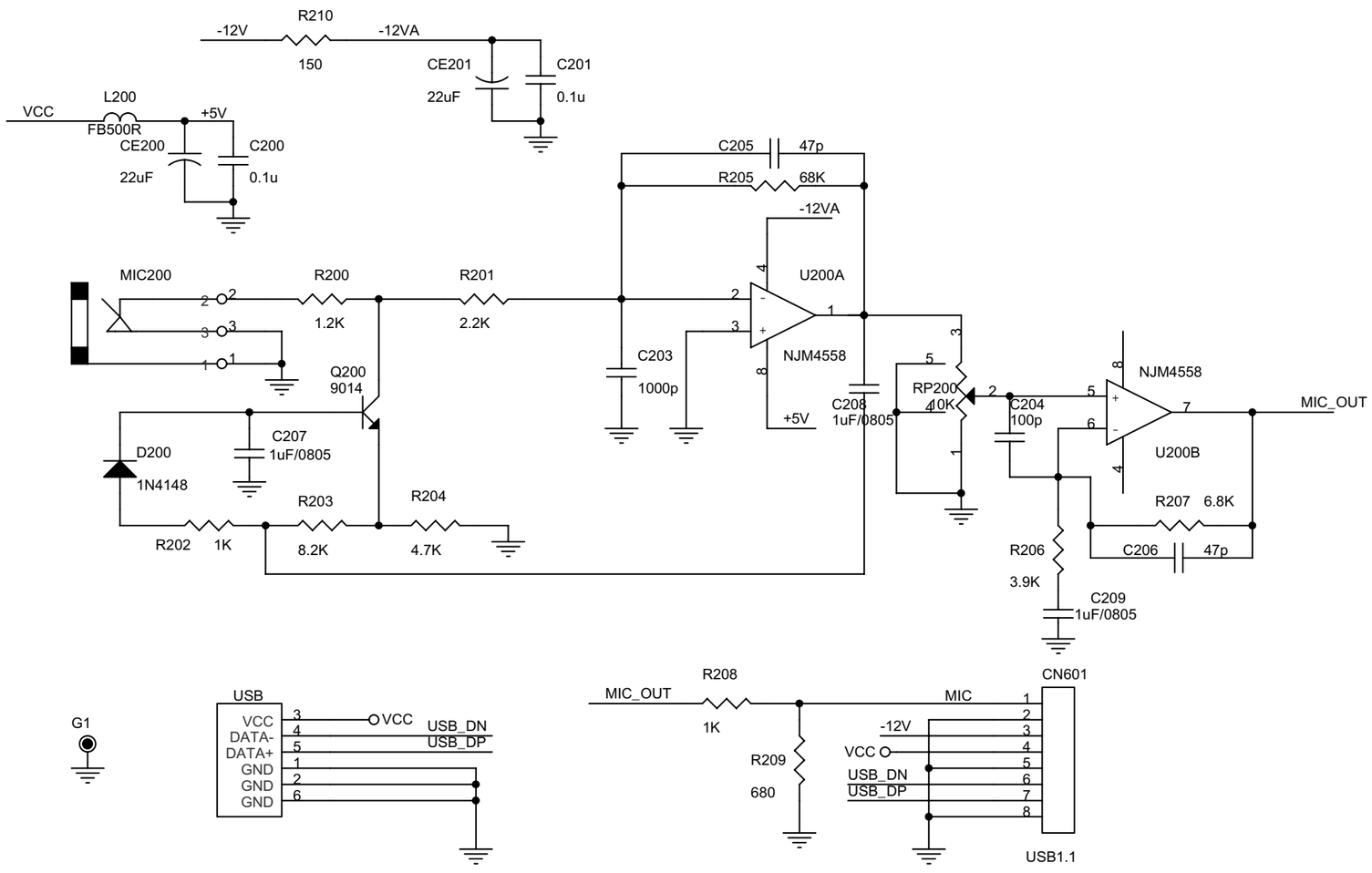
Front Board Electric Diagram for DVP3126(K)/XX, DVP3146(K)/XX, DVP3148K/XX



C300	B2
C301	B2
C302	B2
C303	B2
C306	B1
C314	A1
C315	B1
C316	C1
CE300	C2
CE301	B1
CON301	A1
CON302	C1
D301	D2
D302	D2
K302	E3
K303	E2
K304	D2
LED1	E2
R300	B2
R301	B2
R302	B2
R303	B2
R304	B2
R305	B2
R306	C1
R307	C2
R308	C2
R315	B1
REM301	B1
U301	D2

6-2

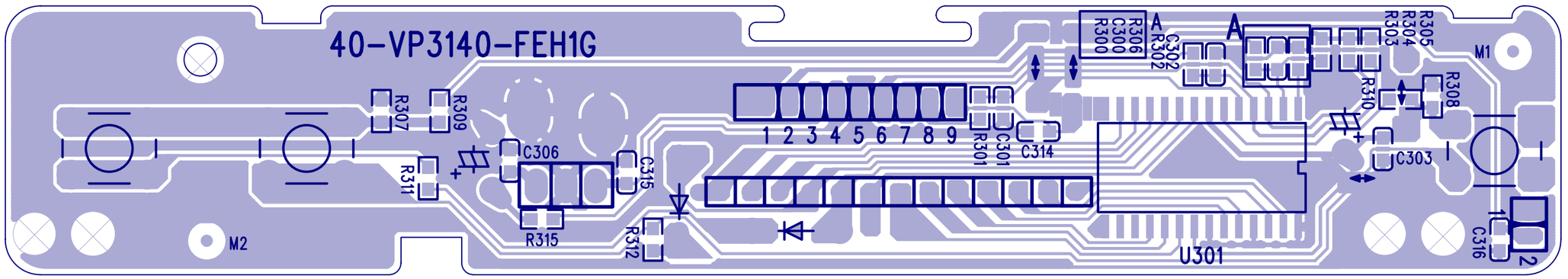
OK+USB Board Electric Diagram for DVP3126K/XX, DVP3146K/XX, DVP3148K/XX



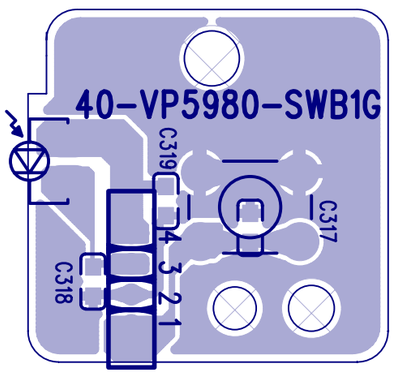
C200	A1
C201	B1
C203	B2
C204	C2
C205	C1
C206	D2
C207	A2
C208	C2
C209	D2
CE200	A1
CE201	B1
CN601	D3
D200	A2
G1	A3
L200	A1
MIC200	A1
Q200	B2
R200	B1
R201	B1
R202	A2
R203	B2
R204	B2
R205	C1
R206	D2
R207	D2
R208	C3
R209	C3
R210	B1
RP200	C2
U200A	C1
U200B	D2
USB	A3

6-3

Front Board Print-Layout (Bottom Side) for DVP3126(K)/XX, DVP3146(K)/XX, DVP3148K/XX

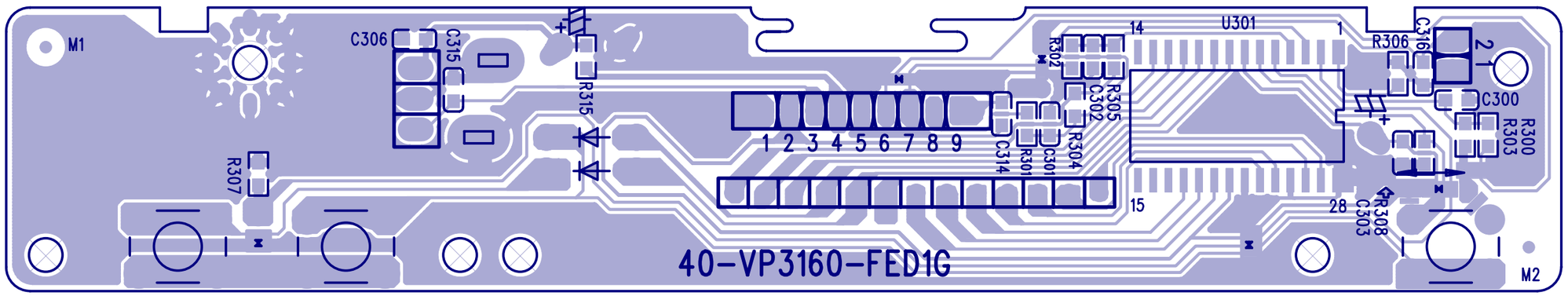


Switch Board Print-Layout (Bottom Side) for DVP3126(K)/XX, DVP3146(K)/XX, DVP3148K/XX

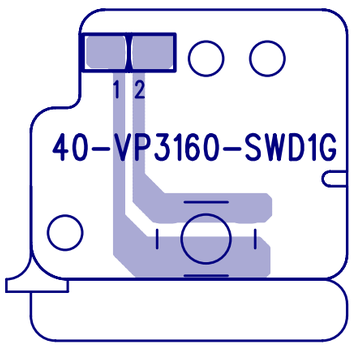


6-4

Front Board Print-Layout (Bottom Side) for DVP3146K/98, DVP3148K/51

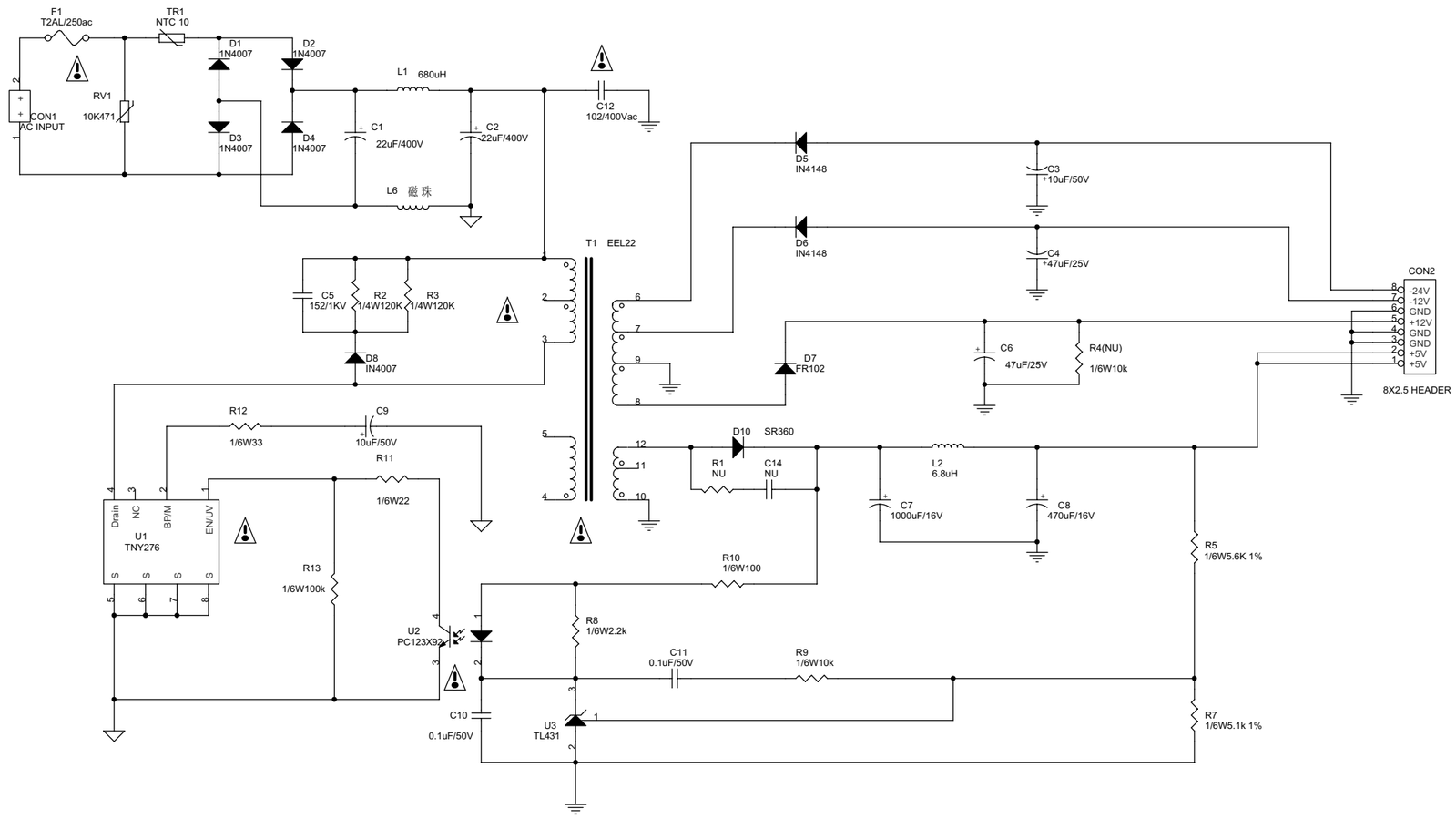


Switch Board Print-Layout (Bottom Side) for DVP3146K/98, DVP3148K/51



6-5

Power Board Electric Diagram for DVP3126(K)/XX



C1	B1
C10	B3
C11	B3
C12	B1
C14	C2
C2	B1
C3	C1
C4	C2
C5	B2
C6	C2
C7	C2
C8	C2
C9	B2
CON1	A1
CON2	D2
D1	A1
D10	C2
D2	B1
D3	A1
D4	B1
D5	C1
D6	C1
D7	C2
D8	B2
F1	A1
L1	B1
L2	C2
L6	B1
R1	C2
R10	C3
R11	B2
R12	A2
R13	B3
R2	B2
R3	B2
R4(NU)	C2
R5	D2
R7	D3
R8	B3
R9	C3
RV1	A1
T1	B2
TR1	A1
U1	A2
U2	B3
U3	B3

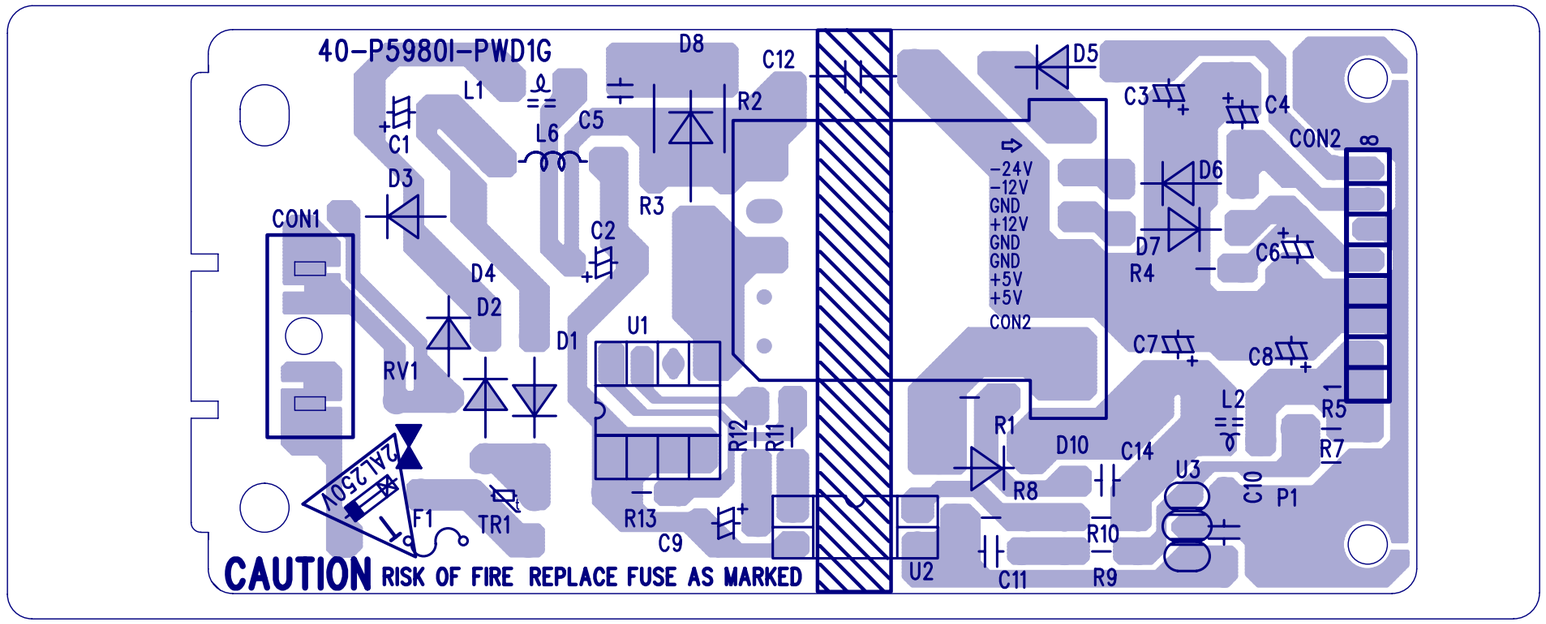
*** CAUTION :**

THE PARTS MARKED WITH ⚠ ARE IMPORTANT PARTS ON THE SAFETY.

PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBER WITHOUT FAIL.

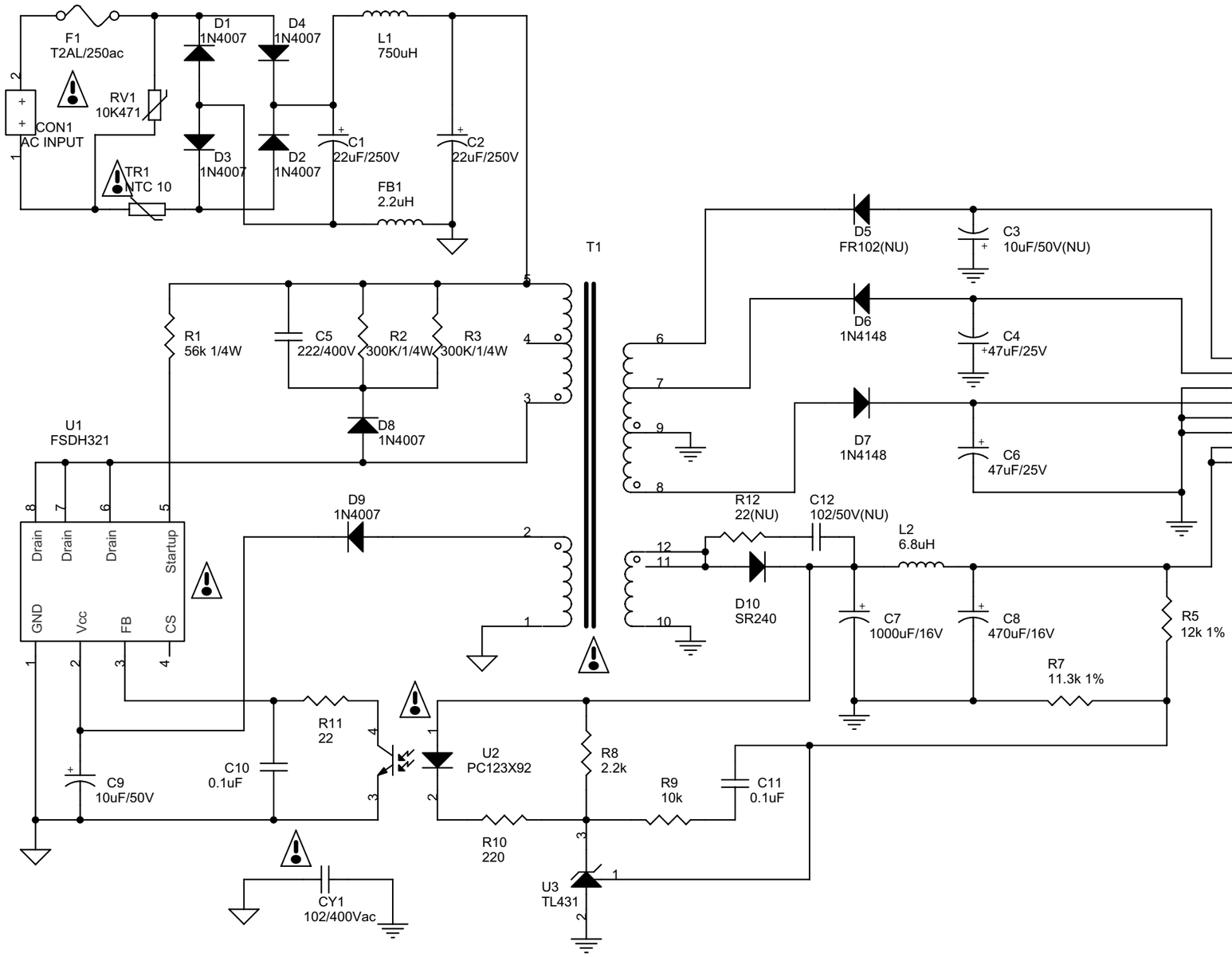
6-6

Power Board Print-Layout (Bottom Side) for DVP3126(K)/XX



6-7

Power Board Electric Diagram for DVP3146(K)/XX, DVP3148K/XX

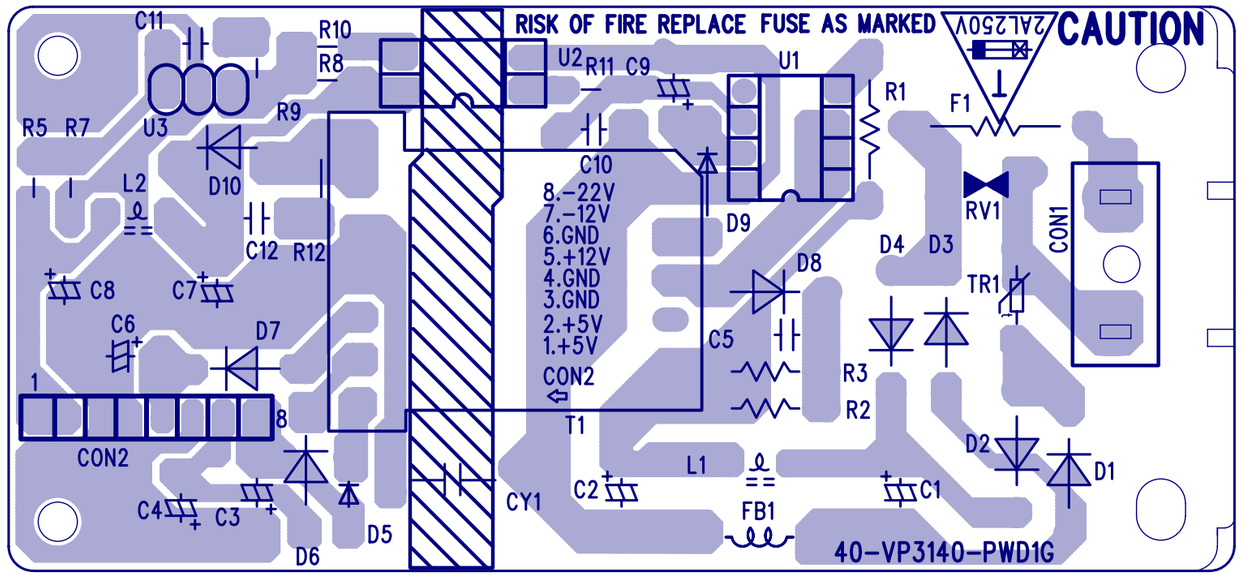


C1	B1
C10	A3
C11	C3
C12	C2
C2	B1
C3	C1
C4	C2
C5	A2
C6	C2
C7	C3
C8	C3
C9	A3
CON1	A1
CON2	D2
CY1	B4
D1	A1
D10	C3
D2	A1
D3	A1
D4	A1
D5	C1
D6	C2
D8	B2
D7	C2
D9	B2
F1	A1
FB1	B1
L1	B1
L2	C3
R1	A2
R10	B3
R11	A3
R12	C2
R2	B2
R3	B2
R5	D3
R7	D3
R8	B3
R9	B3
RV1	A1
T1	B2
TR1	A1
U1	A2
U2	B3
U3	B3

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

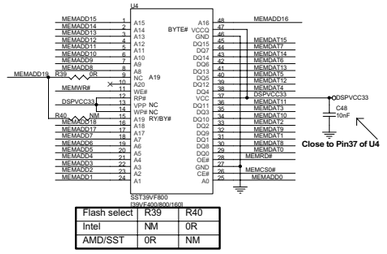
6-8

Power Board Print-Layout (Bottom Side) for DVP3146(K)/XX, DVP3148K/XX

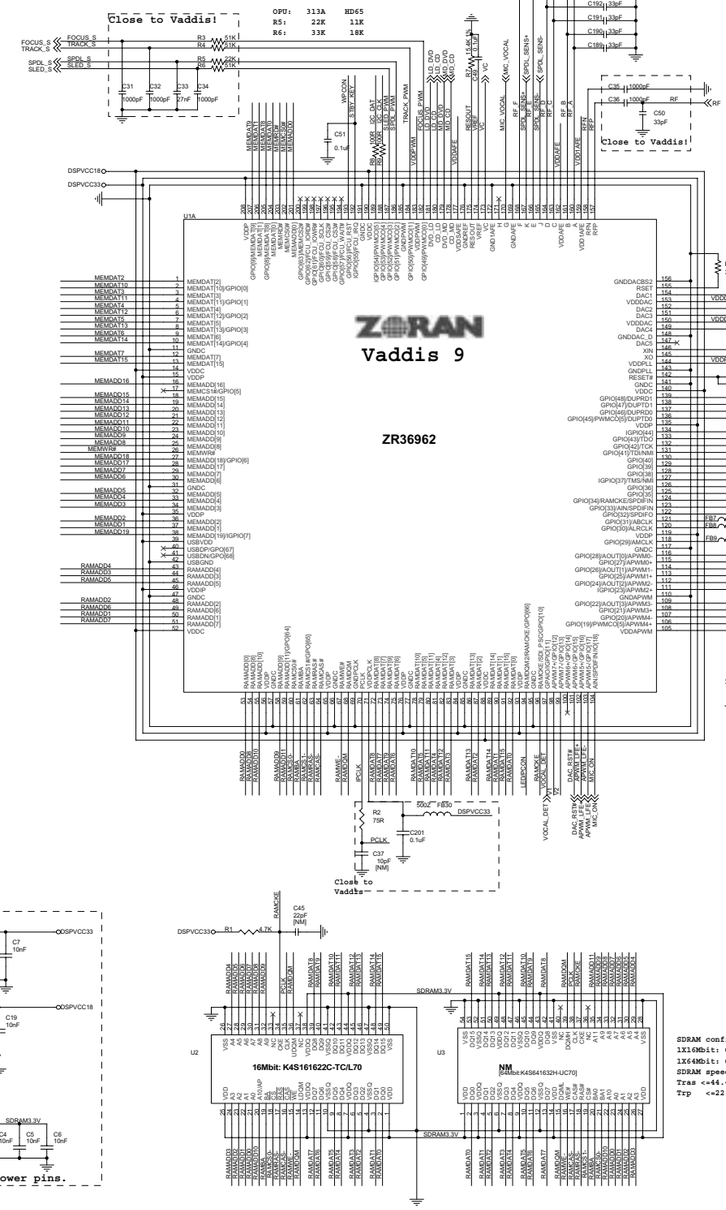


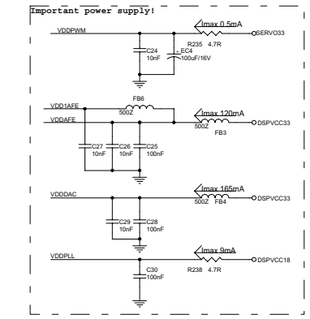
6-9

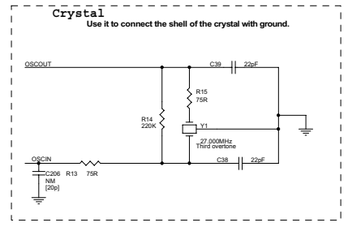
Main Board Electric Diagram for DVP3126(K)/XX, DVP3146(K)/XX, DVP3148K/XX: INDEX

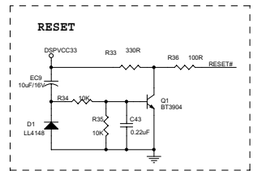


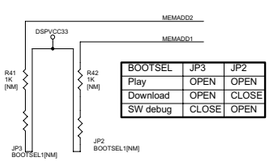
Flash select	R39	R40
Intel	NM	0R
AMD/SST	0R	NM



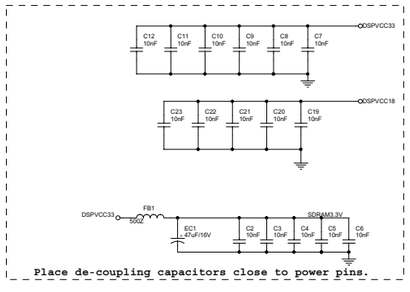


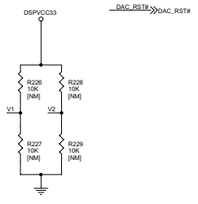


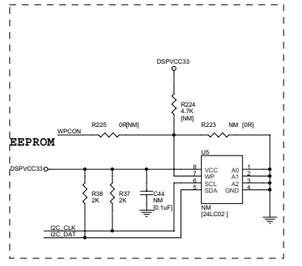


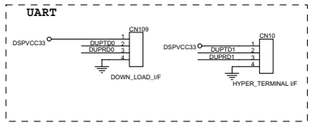


BOOTSEL	JP3	JP2
Play	OPEN	OPEN
Download	OPEN	CLOSE
SW debug	CLOSE	OPEN





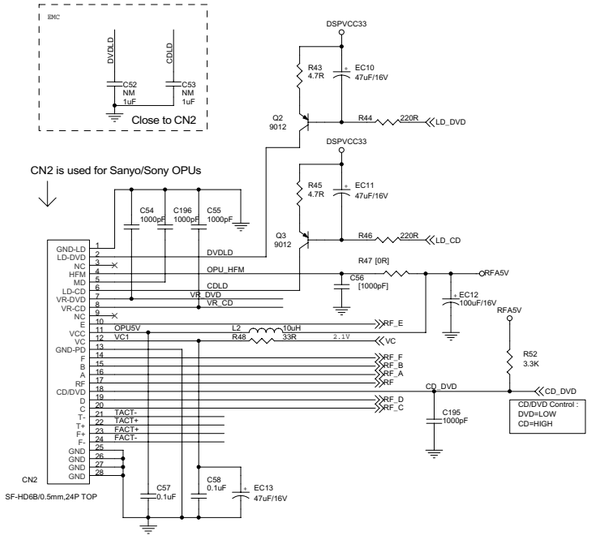




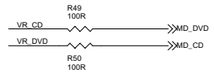
CN10	D 4	EC9	D 2
CN109	D 4	EC20	C 3
C2	A 4	FB1	A 4
C3	A 4	FB3	D 1
C4	A 4	FB4	D 1
C5	A 4	FB6	C 1
C6	B 4	FB7	C 2
C7	A 4	FB8	C 2
C8	A 4	FB9	C 2
C9	A 4	FB30	B 3
C10	A 4	JP2	A 3
C11	A 4	JP3	A 3
C12	A 4	Q1	D 2
C15	C 3	R1	B 4
C19	A 4	R2	B 3
C20	A 4	R3	B 1
C21	A 4	R4	B 1
C22	A 4	R5	B 1
C23	A 4	R6	B 1
C24	C 1	R7	C 1
C25	C 1	R8	B 1
C26	C 1	R9	B 1
C27	C 1	R10	C 2
C28	C 1	R13	D 1
C29	C 1	R14	D 1
C30	C 1	R15	D 1
C31	B 1	R19	C 2
C32	B 1	R20	C 2
C33	B 1	R21	C 2
C34	B 1	R22	C 2
C35	C 1	R24	D 2
C36	C 1	R30	D 2
C37	B 3	R33	D 2
C38	D 1	R34	D 2
C39	D 1	R35	D 2
C43	D 2	R36	D 2
C44	D 3	R37	D 3
C45	B 4	R38	D 3
C48	A 1	R39	A 1
C49	C 1	R40	A 1
C50	C 1	R41	A 3
C51	B 1	R42	A 3
C189	C 1	R56	C 3
C190	C 1	R223	D 3
C191	C 1	R224	D 3
C192	C 1	R225	D 3
C193	C 1	R226	C 3
C194	C 1	R227	C 3
C201	B 3	R228	C 3
C202	C 2	R229	C 3
C205	D 2	R235	D 1
C206	D 1	R238	D 1
D1	D 2	U1A	B 1
EC1	A 4	U2	B 4
EC4	D 1	U3	B 4
		U4	A 1
		U5	D 3
		X11	D 4
		Y1	D 1

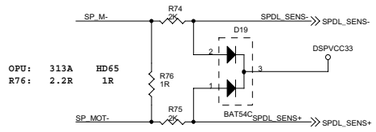
6-10

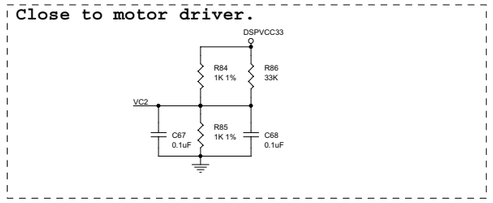
Main Board Electric Diagram for DVP3126(K)/XX, DVP3146(K)/XX, DVP3148K/XX: Front end



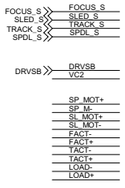

```
OPU   313A  HD65  502W
R49: 100R   0R    91R
R50: 100R   0R    91R
```

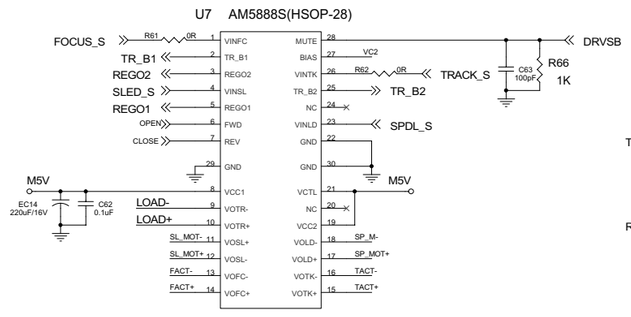


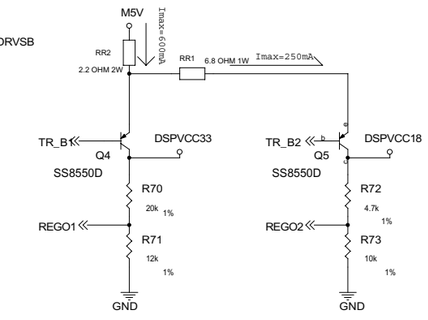


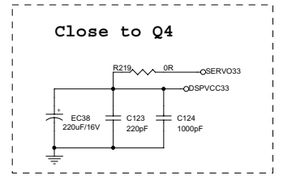


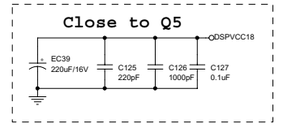
CN2	A 1	Q3	A 1
CN3	A 4	Q4	C 3
CN4	A 3	Q5	D 3
C42	A 4	RR1	C 3
C52	A 1	RR2	C 2
C53	A 1	R43	A 1
C54	A 1	R44	A 1
C55	A 1	R45	A 1
C56	A 1	R46	A 1
C57	A 2	R47	A 1
C58	A 2	R48	A 2
C62	B 3	R49	B 1
C63	C 3	R50	B 1
C64	A 4	R52	B 2
C65	A 4	R61	B 2
C66	A 4	R62	C 3
C67	C 2	R66	C 3
C68	D 2	R70	C 3
C123	D 3	R71	C 3
C124	E 3	R72	D 3
C125	D 3	R73	D 3
C126	E 3	R74	D 1
C127	E 3	R75	D 1
C195	A 2	R76	D 1
C196	A 1	R84	D 1
D19	D 1	R85	D 2
EC10	A 1	R86	D 1
EC11	A 1	R87	A 4
EC12	A 1	R88	A 4
EC13	A 2	R90	A 4
EC14	B 3	R91	A 4
EC38	D 3	R92	A 4
EC39	D 3	R219	D 3
L2	A 1	U7	B 2
Q2	A 1		

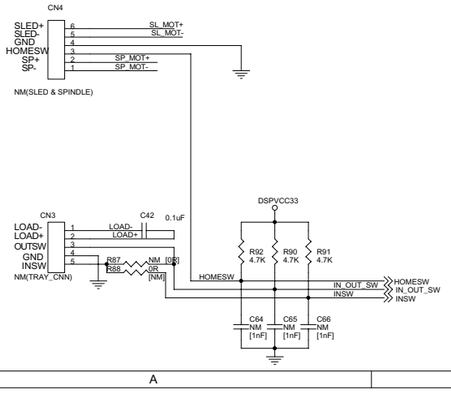






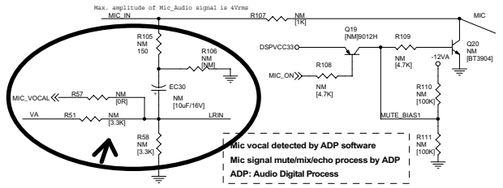


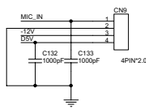


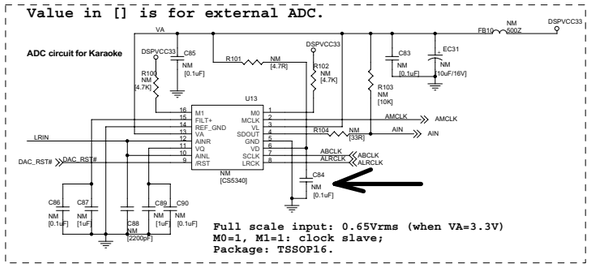


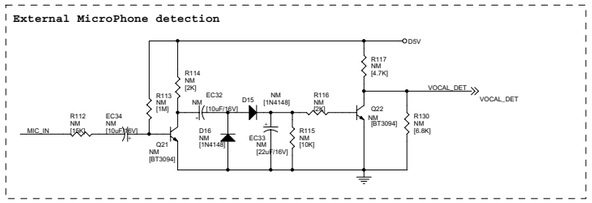
6-11

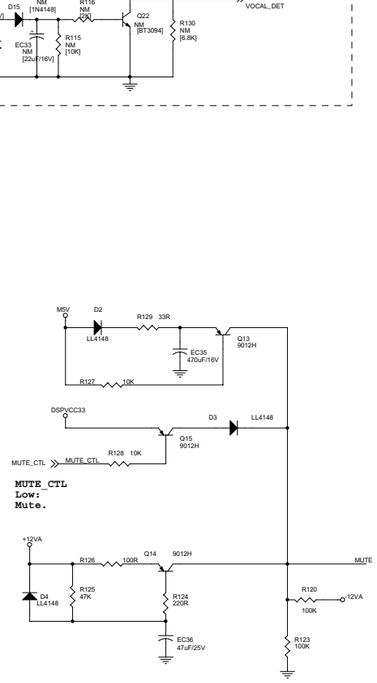
Main Board Electric Diagram for DVP3126(K)/XX, DVP3146(K)/XX, DVP3148K/XX: Audio Input_Outp

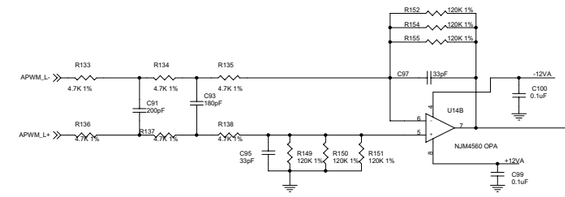


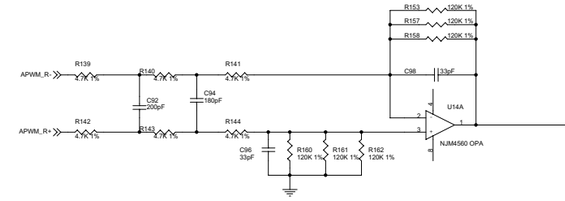


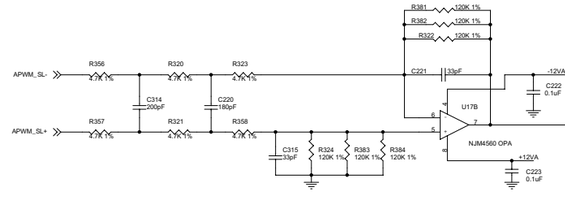


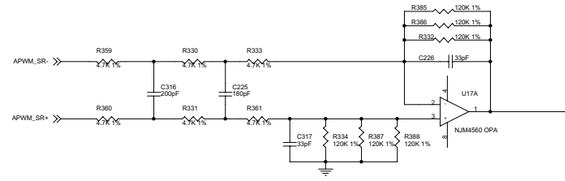


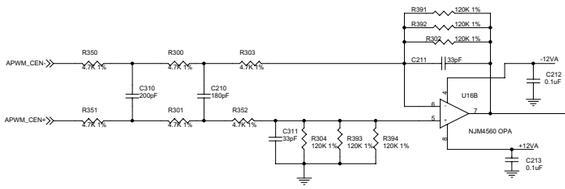


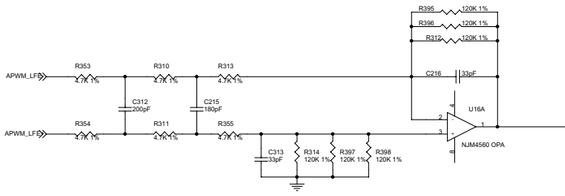


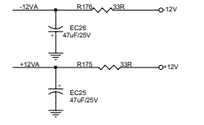


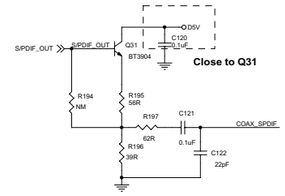


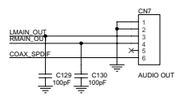


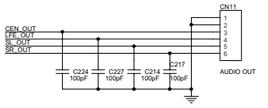












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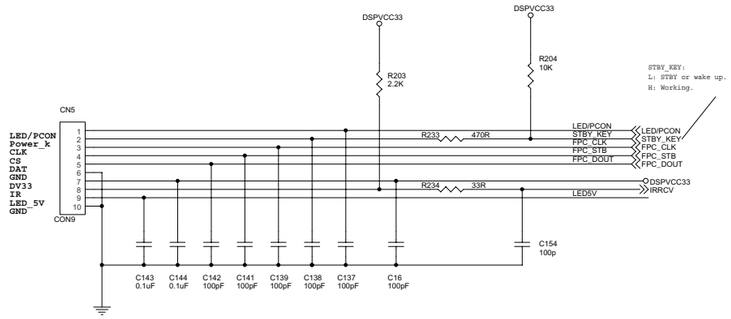
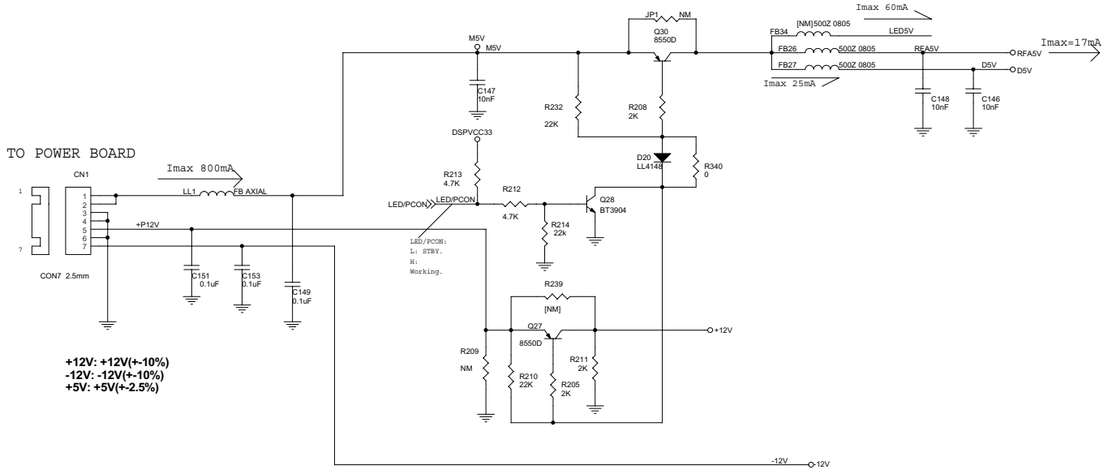
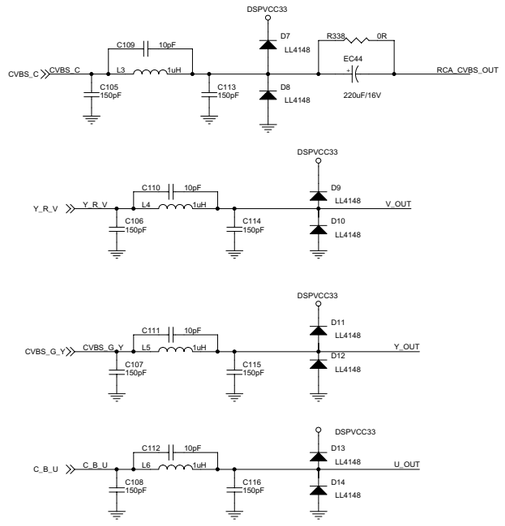
CN9	B 1	Q18	D 2	R196	D 3
CN11	D 4	Q19	A 1	R197	D 3
C83	A 1	Q20	A 1	R300	B 3
C84	A 2	Q21	A 2	R301	B 3
C85	A 1	Q22	A 2	R302	C 3
C86	A 2	Q31	D 3	R303	C 3
C87	A 2	Q40	D 3	R304	C 3
C88	A 2	Q41	D 4	R305	C 3
C89	A 2	Q42	D 2	R306	D 3
C90	A 2	Q43	D 3	R307	D 3
C91	B 1	R51	A 1	R310	B 4
C92	B 1	R57	A 1	R311	B 4
C93	B 1	R58	A 1	R312	C 4
C94	B 1	R100	A 1	R313	C 4
C95	C 1	R101	A 1	R314	C 4
C96	C 2	R102	A 1	R315	C 4
C97	C 1	R103	A 1	R316	D 4
C98	C 1	R104	A 1	R317	D 4
C99	C 1	R105	A 1	R320	B 2
C100	C 1	R106	A 1	R321	B 2
C101	D 1	R107	A 1	R322	C 2
C102	D 1	R108	A 1	R323	C 2
C103	D 1	R109	A 1	R324	C 2
C104	D 2	R110	A 1	R325	D 2
C120	D 3	R111	A 1	R326	D 2
C121	D 3	R112	A 2	R327	D 2
C122	D 3	R113	A 2	R330	B 3
C129	D 3	R114	A 2	R331	B 3
C130	D 3	R115	A 2	R332	C 2
C132	B 1	R116	A 2	R333	C 3
C133	B 1	R117	A 2	R334	C 3
C210	B 3	R120	B 4	R335	D 3
C211	C 3	R123	B 4	R336	D 3
C212	C 3	R124	A 4	R337	D 3
C213	C 3	R125	A 4	R350	B 3
C214	D 4	R126	A 4	R351	B 3
C215	B 4	R127	A 3	R352	C 3
C216	C 4	R128	A 4	R353	B 4
C217	D 4	R129	A 3	R354	B 4
C220	C 2	R130	A 2	R355	C 4
C221	C 2	R133	B 1	R356	B 2
C222	C 2	R134	B 1	R357	B 2
C223	C 2	R135	C 1	R358	C 2
C224	D 4	R136	B 1	R359	B 3
C225	C 3	R137	B 1	R360	B 3
C226	C 3	R138	C 1	R361	C 3
C227	D 4	R139	B 1	R381	C 2
C310	B 3	R140	B 1	R382	C 2
C311	C 3	R141	C 1	R383	B 4
C312	B 2	R142	B 2	R384	B 4
C313	C 4	R143	B 2	R385	C 3
C314	B 2	R144	C 2	R386	C 3
C315	C 2	R149	C 1	R387	C 3
C316	B 3	R150	C 1	R388	C 3
C317	C 3	R151	C 1	R391	C 3
D2	A 3	R152	C 1	R392	C 3
D3	B 3	R153	C 1	R393	C 3
D4	A 4	R154	C 1	R394	C 3
D15	A 2	R155	C 1	R395	C 4
D16	A 2	R157	C 1	R396	C 4
EC25	D 2	R158	C 1	R397	C 4
EC26	D 2	R160	C 2	R398	C 4
EC27	D 1	R161	C 2	U13	A 1
EC28	D 2	R162	C 2	U14A	C 1
EC30	A 1	R163	D 1	U14B	C 1
EC31	A 1	R164	D 2	U15A	D 2
EC32	A 2	R165	D 1	U15B	D 1
EC33	A 2	R166	D 2	U16A	C 4
EC34	A 2	R167	D 1	U16B	C 3
EC35	A 3	R168	D 1	U17A	C 3
EC36	A 4	R169	D 1	U17B	C 2
EC40	C 3	R170	D 2		
EC41	C 4	R171	D 1		
EC42	C 2	R172	D 2		
EC43	C 3	R173	D 1		
FB10	B 1	R174	D 2		
Q13	B 3	R175	D 2		
Q14	A 4	R176	D 2		
Q15	A 3	R194	D 3		

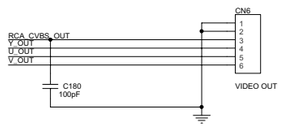
6-12

Main Board Electric Diagram for DVP3126(K)/XX, DVP3146(K)/XX, DVP3148K/XX: Power_Video Out_





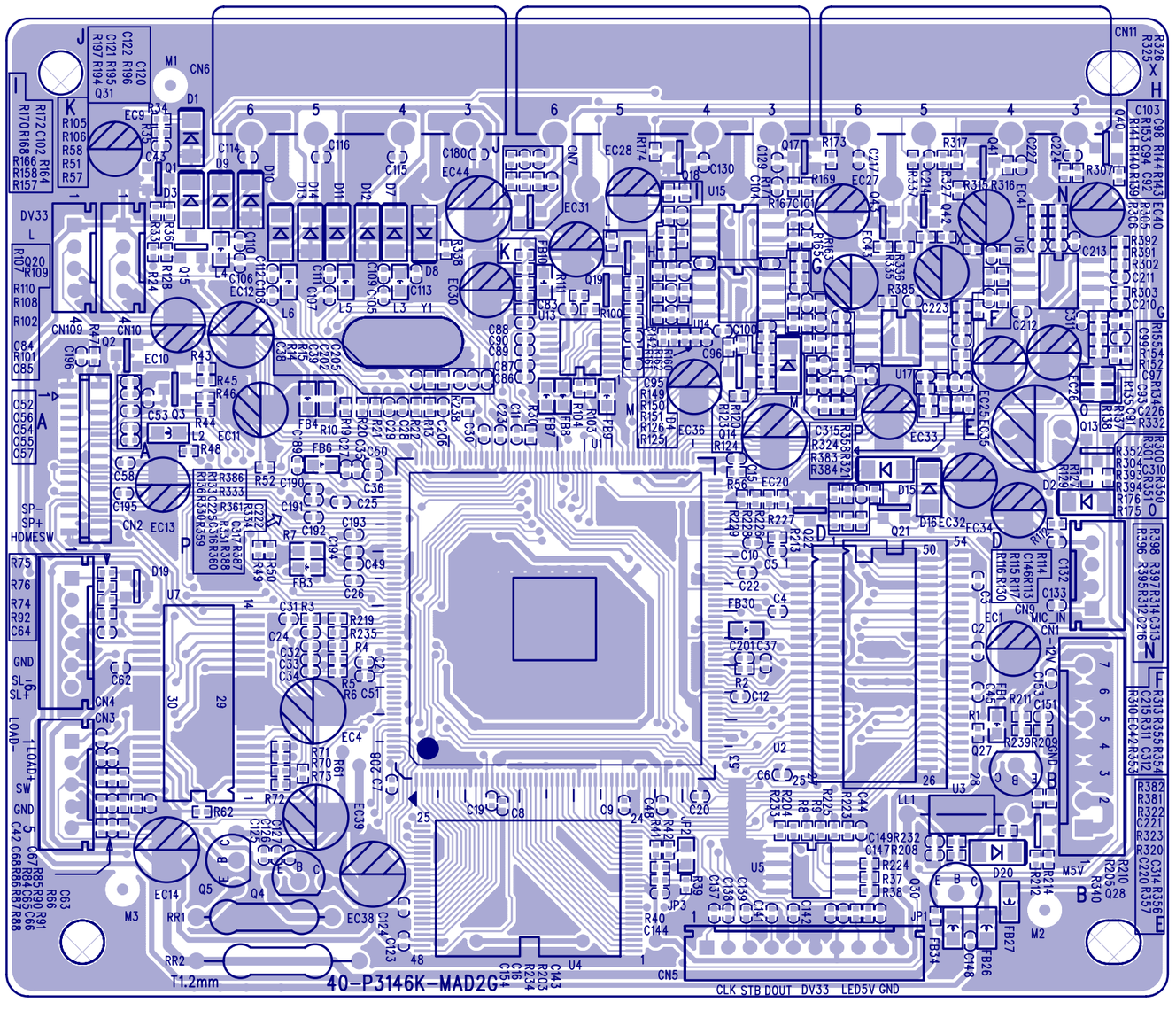




CN1	A 3
CN5	A 1
CN6	D 3
C16	A 2
C105	C 2
C106	C 2
C107	C 2
C108	C 3
C109	C 1
C110	D 2
C111	D 2
C112	D 3
C113	D 2
C114	D 2
C115	D 2
C116	D 3
C137	A 2
C138	A 2
C139	A 2
C141	A 2
C142	A 2
C143	A 2
C144	A 2
C146	C 3
C147	B 2
C148	C 3
C149	A 3
C151	A 3
C153	A 3
C154	B 2
C180	C 3
D7	D 1
D8	D 1
D9	D 2
D10	D 2
D11	D 2
D12	D 2
D13	D 3
D14	D 3
D20	B 3
EC44	D 1
FB26	B 2
FB27	B 2
FB34	B 2
JP1	B 2
LL1	A 3
L3	C 1
L4	C 2
L5	C 2
L6	C 3
Q27	B 3
Q28	B 3
Q30	B 2
R203	A 1
R204	B 1
R205	B 3
R208	B 3
R209	B 3
R210	B 3
R211	B 3
R212	B 3
R213	B 3
R214	B 3
R232	B 3
R233	B 1
R234	B 2
R239	B 3
R338	D 1
R340	B 3

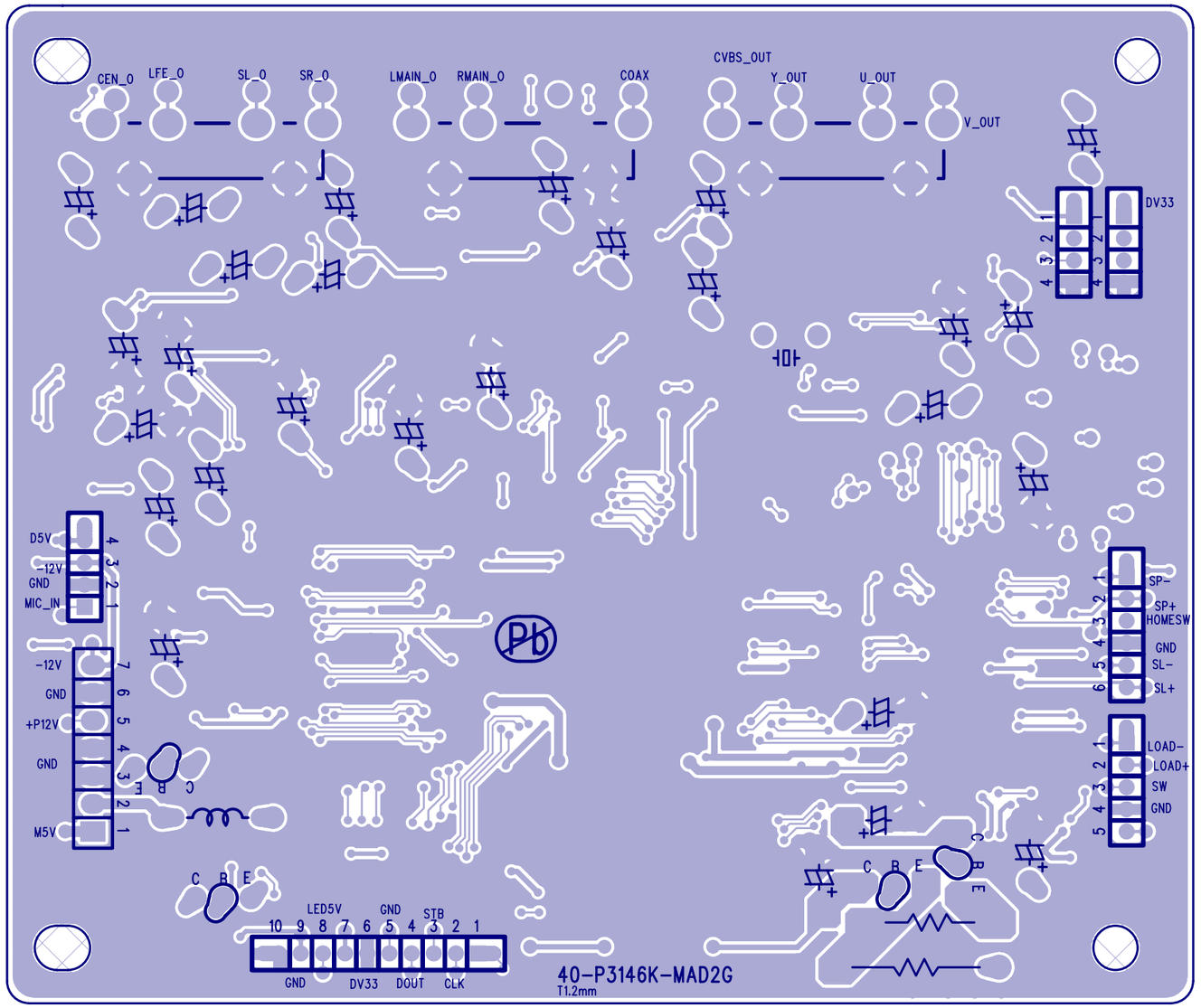
6-13

Main Board Print-Layout (Top Side) for DVP3126(K)/XX, DVP3146(K)/XX, DVP3148K/XX



6-14

Main Board Print-Layout (Bottom Side) for DVP3126(K)/XX, DVP3146(K)/XX, DVP3148K/XX



6-15

Main Board Electric Diagram for DVP3146K/93: Vaddis_SDRAM_Fla

Flash speed <= 70 nS.
If plan to use 90ns
Flash, it needs to be
verified by s/w.

U4
39F400/800/160
39LF400/800/160

Flash select	R39	R40
Intel	NM	0R
AMD/SST	0R	NM

Close to Pin37 of U4

Close to Vaddis!

OPU: 313A MD65
R5: 22K 11K
R6: 33K 18K

Close to Vaddis!

Close to Vaddis

Important power supply!

VDDPWM → 1max 0.5mA → SERVO33 (C24 10nF, EC4 100uF/16V, R235 4.7R)
VDD1AFE, VDDAFE → FB6 500Z → 1max 120mA → DSPVCC33 (C27 10nF, C26 10nF, C25 100nF, FB3)
VDDDAC → 1max 165mA 500Z FB4 → DSPVCC33 (C29 10nF, C28 100nF)
VDDPLL → 1max 9mA → DSPVCC18 (C30 100nF, R238 4.7R)

Crystal
Use it to connect the shell of the crystal with ground.
OSCOUT, OSCIN, C39 22pF, C38 22pF, R15 75R, R14 220K, Y1 27.000MHz Third overtone, C206 NM [Poly], R13 75R

ZORAN
Vaddis 9
ZR36962

RESET
DSPVCC33, R33 330R, R36 100R, RESET#, EC9 10uF/16V, R34, R35 10K, C43 0.22uF, D1 LL4148, Q1 BT3904

IRRCV, R30 15K

MUTE_CTL, DUPRD1, R24 JR, C205 1000pF

R10 392 Ohm 1%

C_B_U, Y_R_V, CVBS_C, CVBS_G_Y

STBY_KEY, LED/PCON, DAC_RST#

R56 4.7R, C15 10nF, EC20 NM [470uF/6.3V]

R2 75R, C201 0.1uF, C37 10pF [NM], PCLK

R226 10K [NM], R228 10K [NM], V1, V2, R227 10K [NM], R229 10K [NM]

EEPROM
DSPVCC33, R224 4.7K [NM], WPCON, R225 0R[NM], R223 NM [0R], U5 [24LC02], R38 2K, R37 2K, C44 NM [0.1uF], IIC_CLK, IIC_DAT

UART
DSPVCC33, CN109, DUPTD0, DUPRD0, DOWN_LOAD_I/F
DSPVCC33, DUPTD1, DUPRD1, CN10, HYPER_TERMINAL I/F

BOOTSEL
MEMADD2, MEMADD1, R41 1K [NM], R42 1K [NM], JP3 BOOTSEL1[NM], JP2 BOOTSEL1[NM]

BOOTSEL	JP3	JP2
Play	OPEN	OPEN
Download	OPEN	CLOSE
SW debug	CLOSE	OPEN

Place de-coupling capacitors close to power pins.

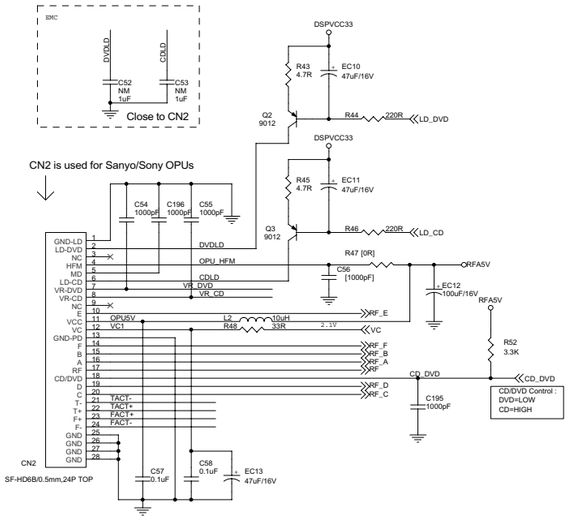
SDRAM configuration:
1X16Mbit: CS0# = Low;
1X64Mbit: CS1# = Low; CS0#=BA1
SDRAM speed <=7ns
Tras <=44.4ns
Trp <=22.2ns

16Mbit: K4S161622C-TC/L70
NM [64Mbit:K4S641632H-UC70]

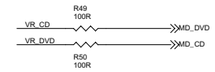
CN10	D 4	EC9	D 2
CN109	D 4	EC20	C 3
C2	A 4	FB1	A 4
C3	A 4	FB3	D 1
C4	A 4	FB4	D 1
C5	A 4	FB6	C 1
C6	B 4	FB7	C 2
C7	A 4	FB8	C 2
C8	A 4	FB9	C 2
C9	A 4	FB30	B 3
C10	A 4	JP2	A 3
C11	A 4	JP3	A 3
C12	A 4	Q1	D 2
C15	C 3	R1	B 4
C19	A 4	R2	B 3
C20	A 4	R3	B 1
C21	A 4	R4	B 1
C22	A 4	R5	B 1
C23	A 4	R6	B 1
C24	C 1	R7	C 1
C25	C 1	R8	B 1
C26	C 1	R9	B 1
C27	C 1	R10	C 2
C28	C 1	R13	D 1
C29	C 1	R14	D 1
C30	C 1	R15	D 1
C31	B 1	R19	C 2
C32	B 1	R20	C 2
C33	B 1	R21	C 2
C34	B 1	R22	C 2
C35	C 1	R24	D 2
C36	C 1	R30	D 2
C37	B 3	R33	D 2
C38	D 1	R34	D 2
C39	D 1	R35	D 2
C43	D 2	R36	D 2
C44	D 3	R37	D 3
C45	B 4	R38	D 3
C48	A 1	R39	A 1
C49	C 1	R40	A 1
C50	C 1	R41	A 3
C51	B 1	R42	A 3
C189	C 1	R56	C 3
C190	C 1	R223	D 3
C191	C 1	R224	D 3
C192	C 1	R225	D 3
C193	C 1	R226	C 3
C194	C 1	R227	C 3
C201	B 3	R228	C 3
C202	C 2	R229	C 3
C205	D 2	R235	D 1
C206	D 1	R238	D 1
D1	D 2	U1A	B 1
RC1	A 4	U2	B 4
RC4	D 1	U3	B 4
		U4	A 1
		U5	D 3
		X11	D 4
		Y1	D 1

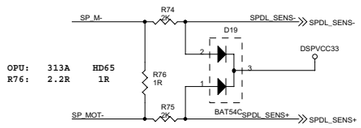
6-16

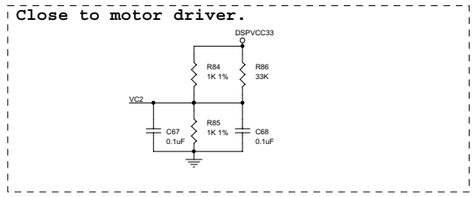
Main Board Electric Diagram for DVP3146K/93: Front end



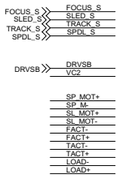
OPU	313A	HD65	502W
R49:	100R	0R	91R
R50:	100R	0R	91R

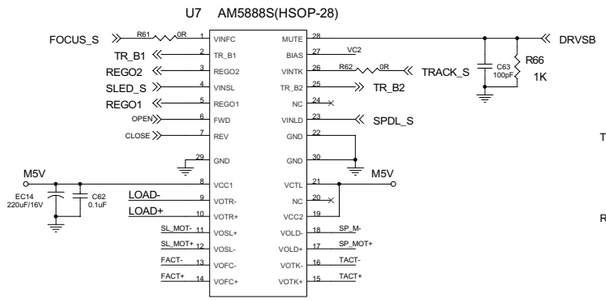


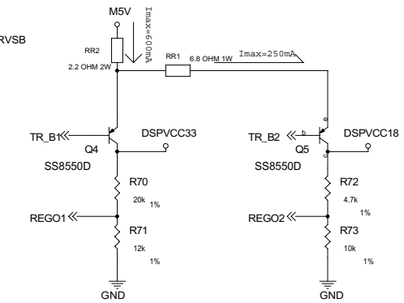


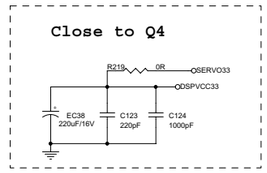


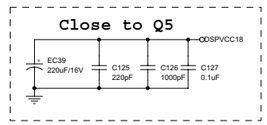
CN2	A 1	Q3	A 1
CN3	A 4	Q4	C 3
CN4	A 3	Q5	D 3
C42	A 4	RR1	C 3
C52	A 1	RR2	C 2
C53	A 1	R43	A 1
C54	A 1	R44	A 1
C55	A 1	R45	A 1
C56	A 1	R46	A 1
C57	A 2	R47	A 1
C58	A 2	R48	A 2
C62	B 3	R49	B 1
C63	C 3	R50	B 1
C64	A 4	R52	B 2
C65	A 4	R61	B 2
C66	A 4	R62	C 3
C67	C 2	R66	C 3
C68	D 2	R70	C 3
C123	D 3	R71	C 3
C124	E 3	R72	D 3
C125	D 3	R73	D 3
C126	E 3	R74	D 1
C127	E 3	R75	D 1
C195	A 2	R76	D 1
C196	A 1	R84	D 1
D19	D 1	R85	D 2
EC10	A 1	R86	D 1
EC11	A 1	R87	A 4
EC12	A 1	R88	A 4
EC13	A 2	R90	A 4
EC14	B 3	R91	A 4
EC38	D 3	R92	A 4
EC39	D 3	R219	D 3
L2	A 1	U7	B 2
Q2	A 1		

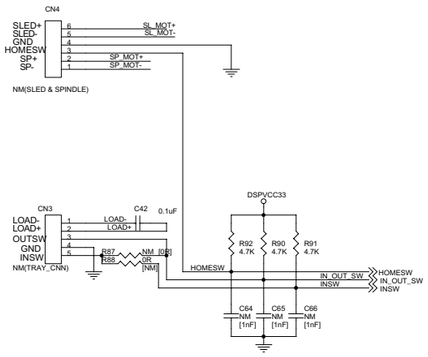












6-17

Main Board Electric Diagram for DVP3146K/93: Audio Input_Outp

Max amplitude of Mic_Audio signal is 4Vrms

MIC_IN
R105 NM 150
R106 NM [0R]
EC30 NM [10uF/16V]
MIC_VOCAL
R57 NM [0R]
VA
R51 NM [3.3K]
LRIN
R58 NM [3.3K]
DSPVCC33
Q19 [NM]9012H
R108 NM [4.7K]
MIC_ON
R109 NM [4.7K]
-12VA
Q20 NM [BT3904]
MIC
R110 NM [100K]
MUTE_BIAS1
R111 NM [100K]

Mic vocal detected by ADP software
Mic signal mute/mix/echo process by ADP
ADP: Audio Digital Process

MIC_IN
-12V
5V
C132 1000pF
C133 1000pF
CN9
4PIN*2.0

Value in [] is for external ADC.

ADC circuit for Karaoke

VA
DSPVCC33
C85 NM [0.1uF]
R101 NM [4.7K]
R102 NM [4.7K]
R104 NM [33R]
FB19 NM [600Z]
DSPVCC33
C83 NM [0.1uF]
EC31 NM [10uF/16V]
R103 NM [10K]
AMCLK
AIN
ABCLK
ALRCLK
U13
M1 FILT+ REF_GND VA AINR VQ AINL /RST
M0 MCLK VL SDOUT GND VD SCLK LRCK
NM [CS5340]
C84 NM [0.1uF]
LRIN
DAC_RST#
C86 NM [0.1uF]
C87 NM [1uF]
C88 NM [2200pF]
C89 NM [1uF]
C90 NM [0.1uF]

Full scale input: 0.65Vrms (when VA=3.3V)
M0=1, M1=1: clock slave;
Package: TSSOP16.

External MicroPhone detection

D5V
R117 NM [4.7K]
VOCAL_DET
R114 NM [0K]
EC32 NM [10uF/16V]
D15 NM [1N4148]
R116 NM [0R]
Q22 NM [BT3094]
R130 NM [6.8K]
MIC_IN
R112 NM [0R]
EC34 NM [10uF/16V]
R113 NM [1M]
Q21 NM [BT3094]
D16 NM [1N4148]
EC33 NM [22uF/16V]
R115 NM [10K]

MUTE_CTL
MUTE_CTL
Low:
Mute.

M5V
D2 LL4148
R129 33R
Q13 9012H
EC35 470uF/16V
R127 10K
DSPVCC33
D3 LL4148
Q15 9012H
MUTE_CTL
R128 10K

M5V
D4 LL4148
R126 100R
Q14 9012H
R125 47K
R124 220R
EC36 47uF/25V
MUTE
R120 100K
12VA
R123 100K

APWM_L-
APWM_L+
R133 43K
R136 43K
R152 47K
R135 2.2K
C97 150pF
C91 1500pF
R149 47K
U14B
NJM4560 OPA
-12VA
C100 0.1uF
+12VA
C99 0.1uF
R163 0R [18K]
MIC
R165 NM [8.8K]
AUDIO_MIX_L
C105 NM [22pF]
R167 0R [18K]
U15B
NJM4558 OPA
-12VA
C103 0.1uF
EC27 22uF
R169 1K
R171 NM
MUTE
R173 470
Q17 BT3904
LMAIN_OUT

APWM_R-
APWM_R+
R139 43K
R142 43K
R153 47K
R141 2.2K
C98 150pF
C92 1500pF
R160 47K
U14A
NJM4560 OPA
R164 0R [18K]
MIC
R166 NM [8.8K]
AUDIO_MIX_R
C106 NM [22pF]
R168 0R [18K]
U15A
NJM4558 OPA
+12VA
C104 0.1uF
EC28 22uF
R170 1K
R172 NM
MUTE
R174 470
Q18 BT3904
RMAIN_OUT

APWM_SL-
APWM_SL+
R320 43K
R321 43K
R322 47K
R323 2.2K
C221 150pF
C220 1500pF
R324 47K
U17B
NJM4560 OPA
-12VA
C222 0.1uF
+12VA
C223 0.1uF
EC42 22uF
R325 1K
R326 NM
MUTE
R327 470
Q42 BT3904
SL_OUT

APWM_SR-
APWM_SR+
R330 43K
R331 43K
R332 47K
R333 2.2K
C226 150pF
C225 1500pF
R334 47K
U17A
NJM4560 OPA
EC43 22uF
R335 1K
R336 NM
MUTE
R337 470
Q43 BT3904
SR_OUT

APWM_CEN-
APWM_CEN+
R300 43K
R301 43K
R302 47K
R303 2.2K
C211 150pF
C210 1500pF
R304 47K
U16B
NJM4560 OPA
-12VA
C212 0.1uF
+12VA
C213 0.1uF
EC40 22uF
R305 1K
R306 NM
MUTE
R307 470
Q40 BT3904
CEN_OUT

APWM_LFE-
APWM_LFE+
R310 43K
R311 43K
R312 47K
R313 2.2K
C216 150pF
C215 1500pF
R314 47K
U16A
NJM4560 OPA
EC41 22uF
R315 1K
R316 NM
MUTE
R317 470
Q41 BT3904
LFE_OUT

-12VA
+12VA
R176 100R
12V
EC26 47uF/25V
EC25 47uF/25V
R175 100R
S/PDIF_OUT
Q31 BT3904
D5V
C120 0.1uF
Close to Q31
R194 NM
R196 56R
R197 62R
C121 0.1uF
COAX_SPDIF
R196 39R
C122 22pF

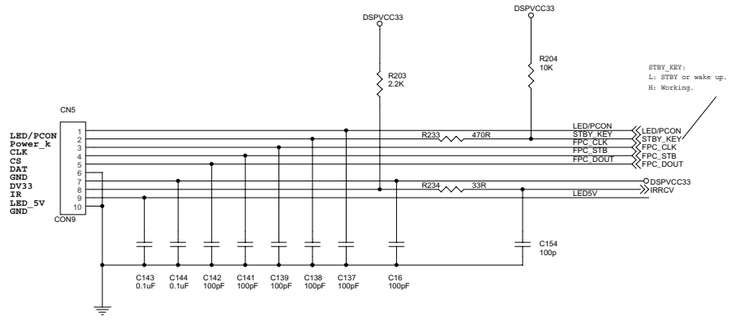
CN7
LMAIN_OUT
RMAIN_OUT
COAX_SPDIF
C129 100pF
C130 100pF
AUDIO OUT

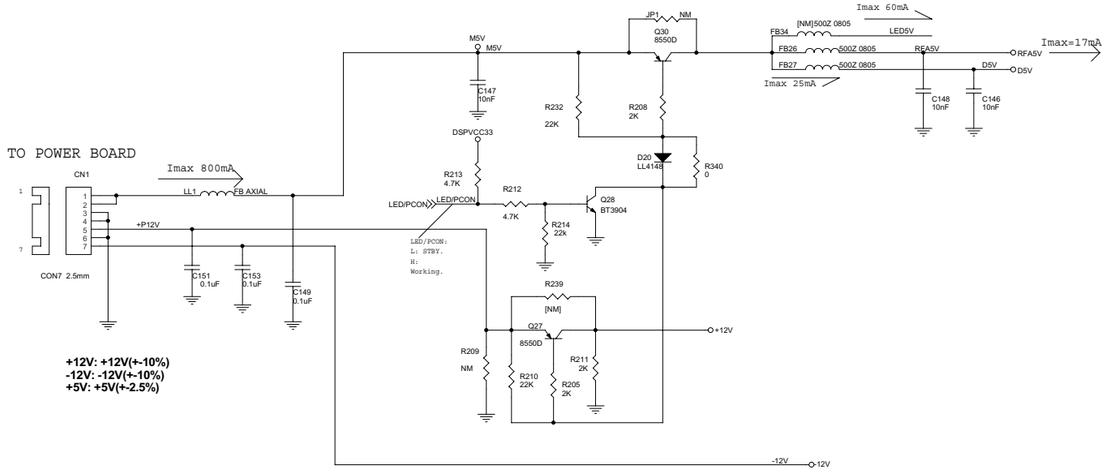
CN11
CEN_OUT
LFE_OUT
SL_OUT
SR_OUT
C224 100pF
C227 100pF
C214 100pF
C217 100pF
AUDIO OUT

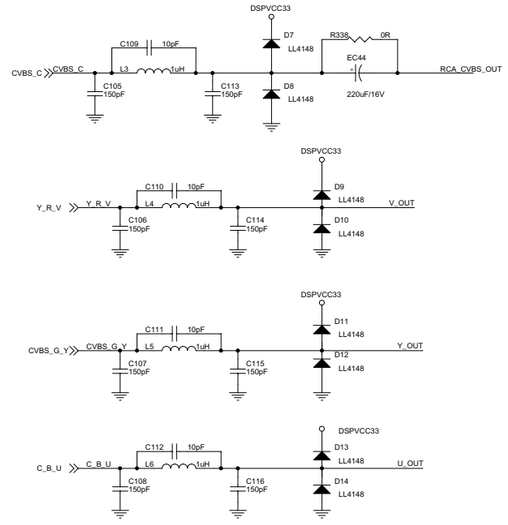
CN7	E3	R108	A1	EC33	A2	R311	B4
CN9	B1	R109	A1	EC34	A2	R312	C3
CN11	D4	R110	A1	EC35	A3	R313	C3
C83	A1	R111	A1	EC36	A4	R314	C4
C84	A2	R112	A2	EC40	C3	R315	C4
C85	A1	R113	A2	EC41	C4	R316	C4
C86	A2	R114	A2	EC42	C2	R317	C4
C87	A2	R115	A2	EC43	C2	R320	B2
C88	A2	R116	A2	FB10	B1	R321	B2
C89	A2	R117	A2	Q13	B3	R322	C2
C90	A2	R120	B4	Q14	A4	R323	C2
C91	C1	R123	B4	Q15	A3	R324	C2
C92	C1	R124	A4	Q17	D1	R325	C2
C97	C1	R125	A4	Q18	D1	R326	C2
C98	C1	R126	A4	Q19	A1	R327	C2
C99	C1	R127	A3	Q20	A1	R330	B2
C100	C1	R128	A4	Q21	A2	R331	B3
C101	D1	R129	A3	Q22	A2	R332	C2
C102	D1	R130	A2	Q31	D3	R333	C2
C103	D1	R133	B1	Q40	D3	R334	C3
C104	D2	R135	C1	Q41	D4	R335	C2
C120	D3	R136	B1	Q42	D2	R336	C3
C121	D3	R139	B1	Q43	D3	R337	C3
C122	D3	R141	C1	R51	A1	U13	A1
C129	D3	R142	B1	R57	A1	U14A	C1
C130	D3	R149	C1	R58	A1	U14B	C1
C132	B1	R152	C1	R100	A1	U15A	D1
C133	B1	R153	C1	R101	A1	U15B	D1
C210	B3	R160	C1	R102	A1	U16A	C4
C211	C3	R163	C1	R103	A1	U16B	C3
C212	C3	R164	C1	R104	A1	U17A	C2
C213	C3	R165	C1	R105	A1	U17B	C2
C214	D4	R166	C1	R106	A1		
C215	B4	R167	D1	R107	A1		
C216	C3	R168	D1				
C217	D4	R169	D1				
C220	B2	R170	D1				
C221	C2	R171	D1				
C222	C2	R172	D1				
C223	C2	R173	D1				
C224	D4	R174	D1				
C225	B2	R175	D2				
C226	C2	R176	D2				
C227	D4	R194	D3				
D2	A3	R195	D3				
D3	B3	R196	D3				
D4	A4	R197	D3				
D15	A2	R300	B3				
D16	A2	R301	B3				
EC25	D2	R302	C3				
EC26	D2	R303	C3				
EC27	D1	R304	C3				
EC28	D1	R305	C3				
EC30	A1	R306	C3				
EC31	A1	R307	C3				
EC32	A2	R310	B3				

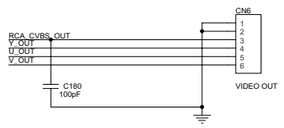
6-18

Main Board Electric Diagram for DVP3146K/93: Power_Video Out_









CN1	A 3
CN5	A 1
CN6	D 3
C16	A 2
C105	C 2
C106	C 2
C107	C 2
C108	C 3
C109	C 1
C110	D 2
C111	D 2
C112	D 3
C113	D 2
C114	D 2
C115	D 2
C116	D 3
C137	A 2
C138	A 2
C139	A 2
C141	A 2
C142	A 2
C143	A 2
C144	A 2
C146	C 3
C147	B 2
C148	C 3
C149	A 3
C151	A 3
C153	A 3
C154	B 2
C180	C 3
D7	D 1
D8	D 1
D9	D 2
D10	D 2
D11	D 2
D12	D 2
D13	D 3
D14	D 3
D20	B 3
EC44	D 1
FB26	B 2
FB27	B 2
FB34	B 2
JP1	B 2
LL1	A 3
L3	C 1
L4	C 2
L5	C 2
L6	C 3
Q27	B 3
Q28	B 3
Q30	B 2
R203	A 1
R204	B 1
R205	B 3
R208	B 3
R209	B 3
R210	B 3
R211	B 3
R212	B 3
R213	B 3
R214	B 3
R232	B 3
R233	B 1
R234	B 2
R239	B 3
R338	D 1
R340	B 3

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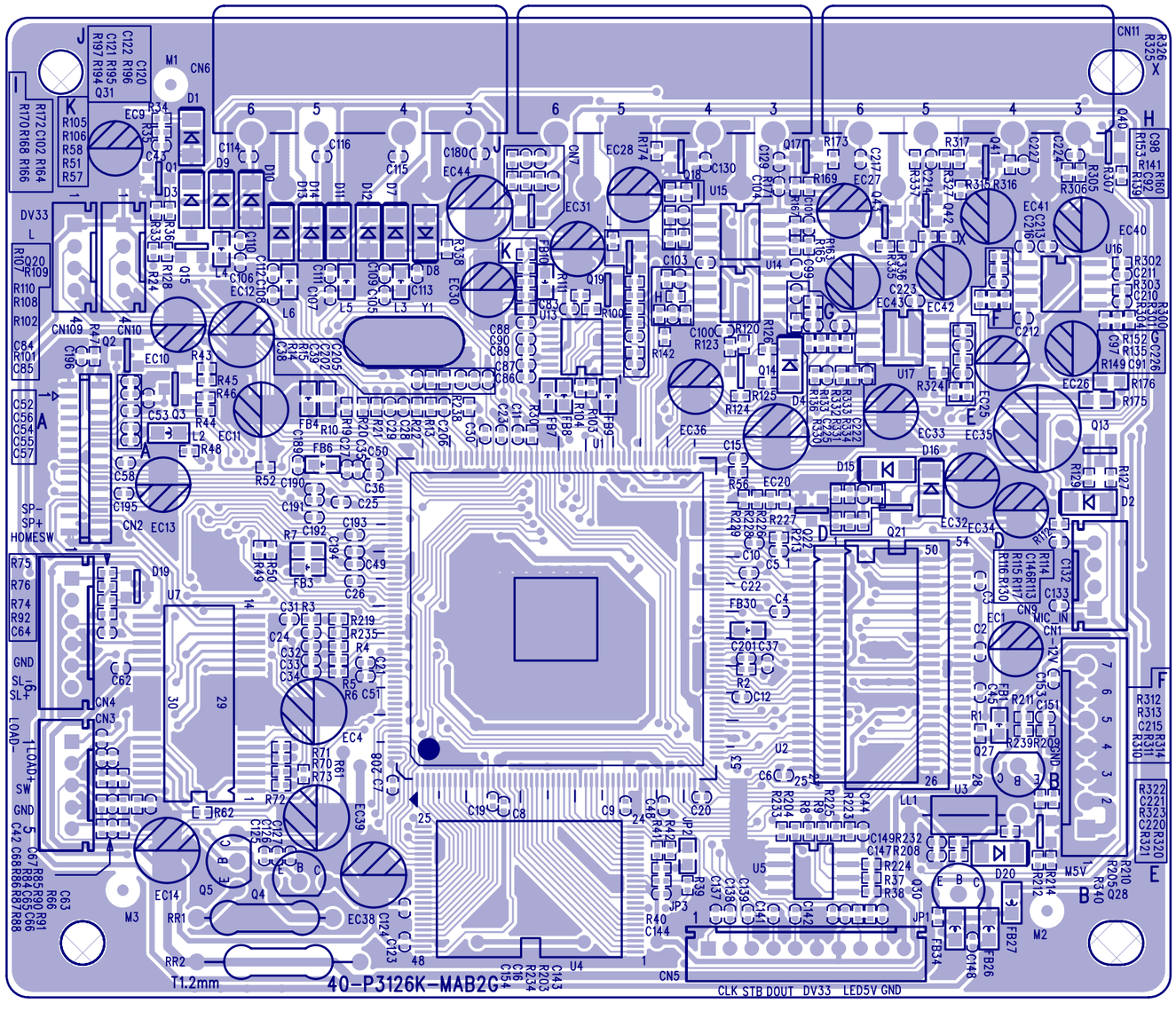
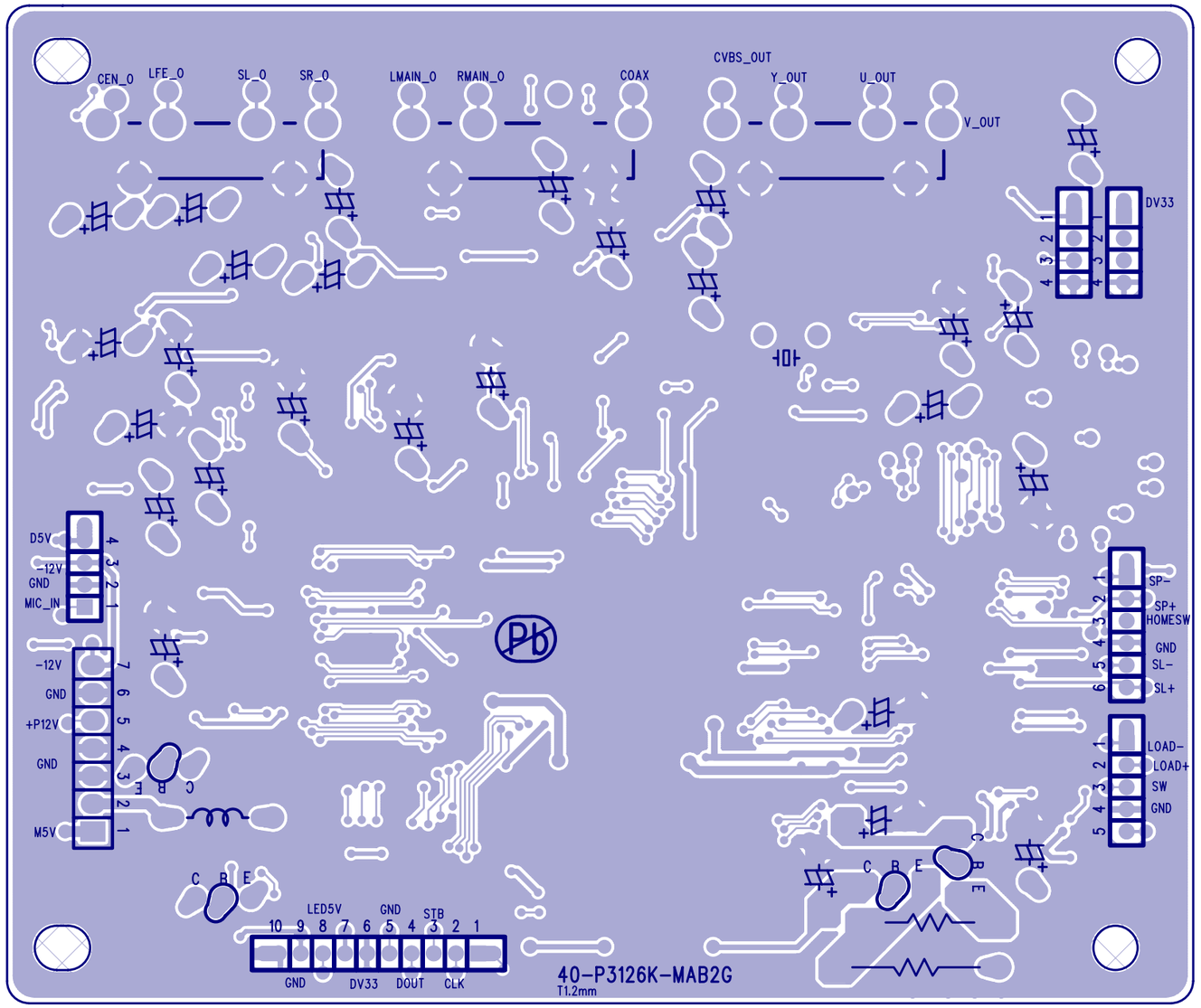
Main Board Print-Layout (Top Side) for DVP3146K/93

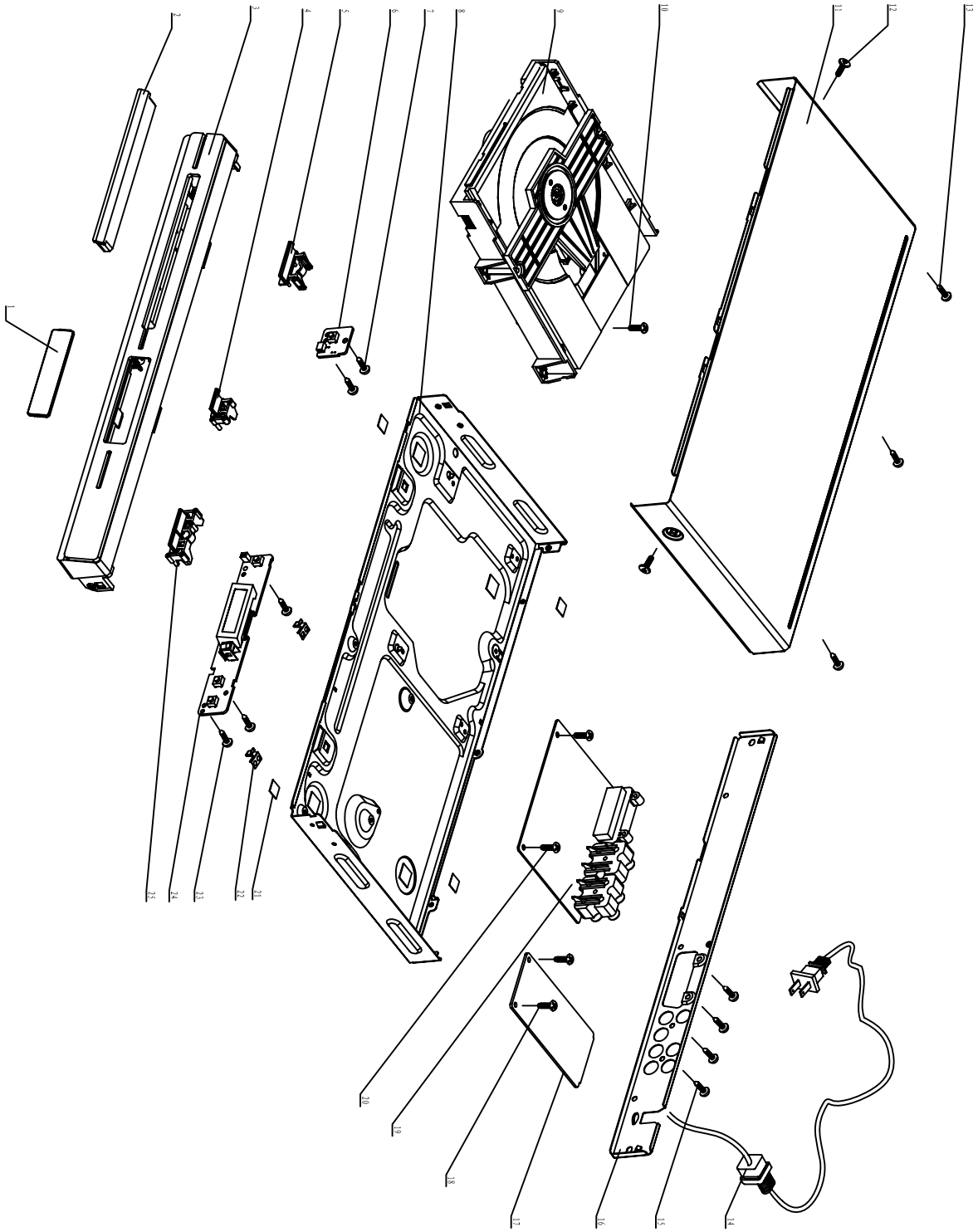


6-20

Main Board Print-Layout (Bottom Side) for DVP3146K/93



DVP3126/XX,DVP3146/XX Mechanical Exploded View



Remark: It's a general Mechanical Exploded View for DVP3126/XX,DVP3146/XX,
Detailed information please refer to Model set.
Ass'y1 is the assembled component for location 1,3,4,5,25

ENCASING & ACCESSORIES PARTS LIST

No	12NC No.	Part Name	Q'ty
Assy1	996510002904	Front Panel Ass'y for DVP3126/94 ,DVP3126X/94	1
	996510002893	Front Panel Ass'y for DVP3126/98/96/51	
	996510002683	Front Panel Ass'y for DVP3146/94,DVP3146X/94	
2	996510002682	Front Door Ass'y for DVP3146/94,DVP3146X/94	1
	996510002892	Front Door Ass'y for DVP3126/94/98/96/5 1	
6	996510001163	Ass'y-Switch Board	1
8	996510001177	Bottom Cabinet	1
9	996510001805	Loader for DVP3126/94/98,DVP3126x/94	1
	996510002887	Loader for DVP3126/96/51	
	996510001166	Loader for DVP3146/94,DVP346x/94	
11	/	Top cover	1
	996510001682	Top cover for DVP3126/94,DVP3126x/94,DVP3146/94, DVP3146x/94	
14	996510001179	Power Cord for DVP3126/94/51,DVP3126x/94, DVP3146/94,DVP3146X/94	1
16	996510001537	Power Cord for DVP3126/98	
	996510002223	Power Cord for DVP3126/96	
17	996510002899	Back Panel for DVP3126/94,DVP3126x/94	1
	996510001883	Back Panel for DVP3146/94 ,DVP3146x/94	
	996510002901	Back Panel for DVP3126/98	
	996510002890	Back Panel for DVP3126/96	
19	996510001820	Ass'y-Power Board for DVP3126/94,DVP3126x/94	1
	996510001190	Ass'y-Power Board for DVP3126/98	
	996510001878	Ass'y-Power Board for DVP3146/94/96 DVP3126/51,DVP3146x/94	
	996510002902	Ass'y-Main Board for DVP3126/94,DVP3126x/94	1
	996510002891	Ass'y-Main Board for DVP3126/98/96/51	
	996510002680	Ass'y-Main Board for DVP3146/94,DVP3146x/94	
21	/	Pad 4	1
22	/	ESD Pad 1	1
24	996510001164	Ass'y-Front Board DVP3126/94,DVP3126x/94	1

SCREW LIST

No	12NC No.	Part Name	Q'ty
7	/	S/T Screw B2.6X8 BF	2
10	/	Machine Screw	1
12	/	Triangle M/C Screw 3*6	2
13	/	Triangle M/C Screw B3*6	3
15	/	S/T Screw B 3 X 8 BF	4
18	/	Triangle M/C Screw B3*6	2
20	/	Triangle M/C Screw B3*6	2
23	/	S/T Screw B2.6X8 BF	3

Accessory

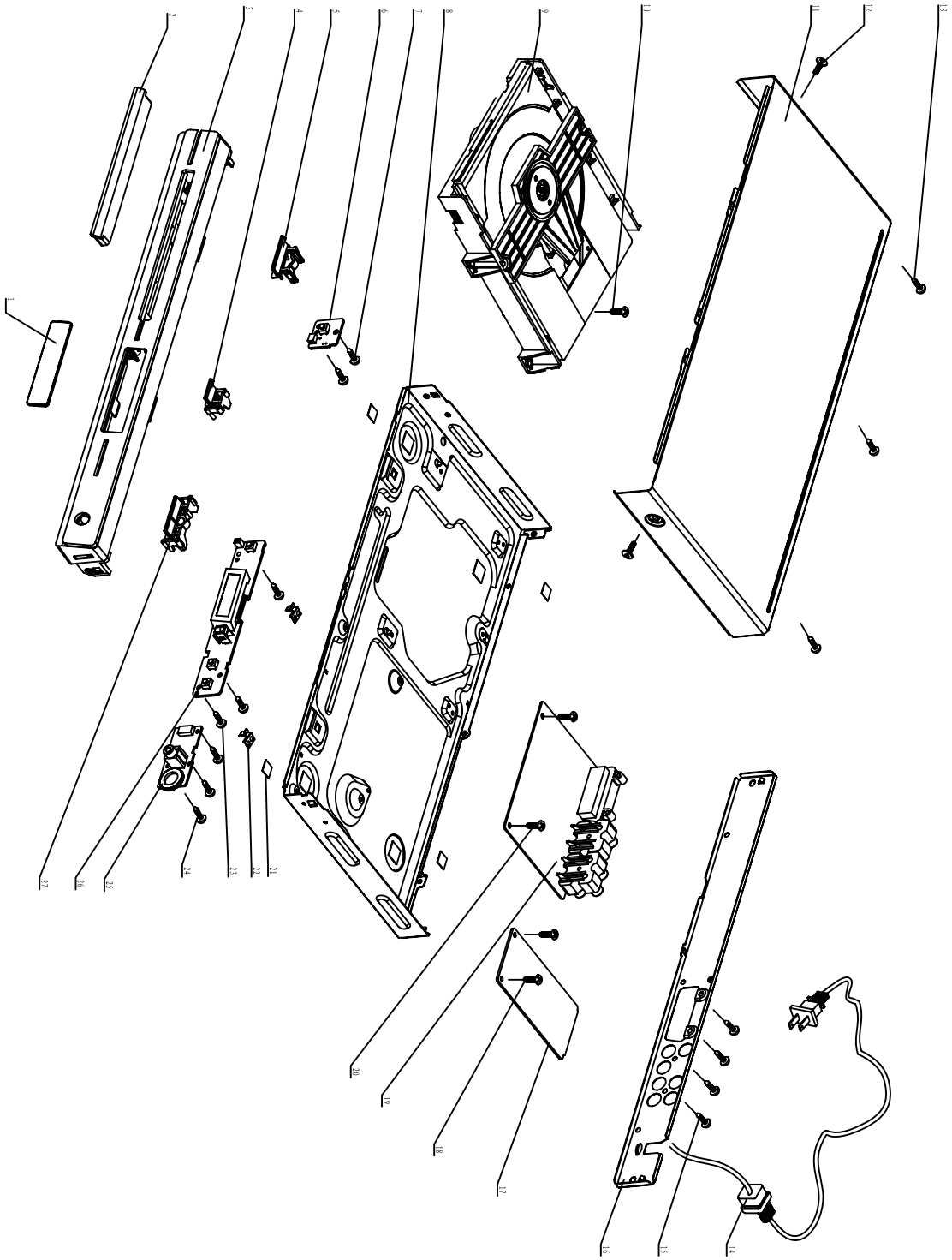
PAC2	996510001203	RIGHT BUFFER
PAC1	996510001202	LEFT BUFFER
RC	996510001822	REMOTE CONTROL for DVP3126/94 ,DVP3126x/94, DVP3146/94,DVP3146x/94
RC	996510001806	REMOTE CONTROL for DVP3126/98/51
PAC8	996510001106	VIDEO CABLE 1500mm
PAC3	996510002903	DISPLAY BOX
PAC3	996510002681	DISPLAY BOX for DVP3146x/94
PAC5	996510002668	POLY BAG for DVP3146/94,DVP3146x/94

Cable

C0N302	996510001171	2P HS DVP3126/94 ,DVP3126x/94
CON301	996510001172	HS 9PIN DVP3126/94,DVP3126x/94
CN2	996510001168	24PIN HS DVP3146/94 ,DVP3146x/94
CN1	996510001169	TJC3-7Y/SCN-7P L=80MM for DVP3126 /94/98 , DVP3126x/94
CN3		PH-5Y/PH-5Y L=130MM 1 for DVP3126/94,
CN1	996510001192	DVP3126X/94,DVP3146/94,DVP3146x/94
		CABLE HS 7P 2468#26 for DVP3126/96/51,
CN4	996510001904	DVP3146/94,DVP3146x/94
CN4	996510001170	6PIN HS for DVP3146/94,DVP3146x/94
	/	6PIN HS for DVP3126/51

Note:Only the parts mentioned in this list are normal service spare parts

DVP3126K/XX,DVP3146K/XX,DVP3148K/XX Mechanical Exploded View



Remark: It's a general Mechanical Exploded View for DVP3126K/XX,DVP3146K/XX,DVP3148K/XX
Detailed information please refer to Model set.
Ass'y1 is the assembled component for location 1,3,4,5,27

ENCASING & ACCESSORIES PARTS LIST

No	12NC No.	Part Name	Q'ty
Ass'y1	996510004028	Front Panel Ass'y for DVP3126K/61	1
	996510002889	Front Panel Ass'y for DVP3126K/56/96	
	996510002678	Front Panel Ass'y for DVP3146K/93	
	996510002671	Front Panel Ass'y for DVP3146K/96/98	
	/	Front Panel Ass'y for DVP3148K/51	
	996510002896	Front Panel Ass'y for DVP3126K/98/51/93	
	/	Front Panel Ass'y for DVP3146K/51	
2	996510002888	Front Door Ass'y for DVP3126K/61/56/96/98/51/93	1
	996510002677	Front Door Ass'y for DVP3146K/93	
	996510002670	Front Door Ass'y for DVP3146K/96/98/51	
	/	Front Door Ass'y for DVP3148K/51	
6	996510001163	Ass'y-Switch Board for DVP3146K/93	1
		DVP3126K/96/56/61/98/51/93	
	996510001188	Ass'y-Switch Board for DVP3146K/96/98/51,	
		DVP3148K/51	
8	996510001177	Bottom Cabinet	1
9	996510001805	Loader for DVP3126K/98	1
	996510002887	Loader for DVP3126K/56/96/51/61/93	
	996510001864	Loader for DVP3146K/93/51,DVP3148K/51	
	996510001166	Loader for DVP3146K/96/98	
11	996510001682	Top cover for DVP3126K/61/56/96/98/51/93	1
		DVP3146K/93/96/51,DVP3148K-51	
	/	Top cover for DVP3146K/98	
14	996510005741	Power Cord for DVP3126K/61	1
	996510001206	Power Cord for DVP3126K/93	
	996510001179	Power Cord for DVP3126K/56/51,DVP3148K/51	
		DVP3146K/51	
	996510002223	Power Cord for DVP3126/K/96,DVP3146K/96	
	996510001537	Power Cord for DVP3146K/98,DVP3126K/98	
16	996510005742	Rear Cabinet for DVP3126K/61	1
	996510002897	Rear Cabinet for DVP3126K/93	
	/	Rear Cabinet for DVP3126K/56/51	
	/	Rear Cabinet for DVP3126K/96	
	/	Rear Cabinet for DVP3146K/93	
	/	Rear Cabinet for DVP3146K/96	
	/	Rear Cabinet for DVP3146K/98	
	/	Rear Cabinet for DVP3148K/51	
		DVP3146K/51	
	/	Rear Cabinet for DVP3126K/98	
17	996510001878	Ass'y-Power Board for DVP3126K/56/96/51/61/93	1
		DVP3146K/93/96/51,DVP3148K/51	
	996510002667	Ass'y-Power Board for DVP3146K/98,	
		DVP3126K/98	
19	996510002886	Ass'y-Main Board for DVP3126K/61/56/96/98/51	1
	996510002894	Ass'y-Main Board for DVP3126K/93	
	996510002673	Ass'y-Main Board for DVP3146K/93	
	996510001877	Ass'y-Main Board for DVP3146K/96/98/51	
		DVP3148K/51	
21	/	Pad	4
22	/	ESD Pad	1
25	996510001183	Ass'y-OK Board for DVP3126K/61/98/51,	1
		DVP3146K/93/96/98/51,DVP3148K/51	
	996510002674	Ass'y-OK Board for DVP3126K/93	
	996510002674	Ass'y-OK Board for DVP3126K/56/96	

ENCASING & ACCESSORIES PARTS LIST

No	12NC No.	Part Name	Q'ty
26	996510001164	Ass'y-Front Board for DVP3126K/61/56/96/51/93	1
		DVP3146K/93	
	996510001189	Ass'y-Front Board for DVP3146K/96/98/51	
		DVP3148K/51	
7	/	S/T Screw B2.6X8 BF	2
10	/	Machine Screw	1
12	/	Triangle M/C Screw 3*6	2
13	/	Triangle M/C Screw B3*6	3
15	/	S/T Screw B 3 X 8 BF	4
18	/	Triangle M/C Screw B3*6	2
20	/	Triangle M/C Screw B3*6	2
23	/	S/T Screw B2.6X8 BF	3
24	/	S/T Screw B2.6X8 BF	2
Accessory			
AVCAB	996510001106	VIDEO CABLE 1500mm	1
RC	996510001778	REMOTE CONTROL for DVP3126K/96/56/98/51/61	1
RC	996510002675	REMOTE CONTROL for DVP3126K/93	
RC	996500034181	REMOTE CONTROL for DVP3146K/96/51/98	
		DVP3148K/51	
RBuffer	996510001203	RIGHT BUFFER for DVP3126K/93/56/96/51/93/61	1
		DVP3146K/93/51	
LBuffer	996510001202	LEFT BUFFER	1
DBOX	996510005744	COLOUR BOX for DVP3126K/61	1
DBOX	996510002895	COLOUR BOX for DVP3126K/93	
DBOX	996510002676	COLOUR BOX for DVP3146K/93	
DBOX	/	COLOUR BOX for DVP3126K/51	
DBOX	/	COLOUR BOX for DVP3146K/51	
DBOX	/	COLOUR BOX for DVP3146K/98	
IFU	996510005756	OPERATION MANUAL for DVP3126K/61	2
FUSE	996510001780	FUSE 2A 250V 5X20MM	1
Battery	996510003815	BAT 1.5V/R03/AAA 1-PACK	1
Cable			
CON301	996510001172	HS 9PIN	1
CN601	996510001184	4P HS	1
CN2	996510001168	24PIN HS for DVP3126K/56/96/98/51/93/61,DVP3146K/96/51/98	1
CON2	996510001904	CABLE HS 7P 2468#26 60 for DVP3126K/56/61/93/	1
		96/98/51, DVP3146K/93/96/98/51, DVP3148K/51	
C0N302	996510001171	2P HS for DVP3126K/96/98, DVP3146K/93	1
C0N302	996510004064	2P HS for DVP3126K/51/61/93	1
C0N302	996510001193	PH-2Y/SAW-2P L=170MM for DVP3146K/96	1
C0N302	/	2P HS for DVP3146K/51/98	1
CN3	996510001192	PH-5Y/PH-5Y for DVP3126K/56/96/98,	1
		DVP3146K/96/98, DVP3148K/51	
CN3	/	PH-5Y/PH-5Y for DVP3126K/51/61/93， DVP3146K/51	1
	996510004063	CABLE PH-5Y/PH-5Y L=130MM for DVP3126K/61/93	
CN4	996510001170	6PIN HS for DVP3146K/96	1
CN4	/	6PIN HS for DVP3126K/51/61/93 ， DVP3146K/98	1
CN4	996510001222	HS 6P PH-6Y/PH-6Y for DVP3146K/93/51	1

Note:Only the parts mentioned in this list are normal service spare parts

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REVISION LIST

Version 1.0
*Initial release

Version 1.1
* Update Service manual to include 3126/51,3126k/51
* Correction of Partcode to Philips 12nc

Version 1.2
***** Include DVP3126X/94 and DVP3146X/94 models

Remark: This Service manual only for Philips Service repairment, Please Don't transmitt or forward it to others.