

Service

DVP3180K/93

Service

Service



Service Manual

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Version 1.0

**CLASS 1
LASER PRODUCT**



3139 785 32430

PHILIPS

Technical Specifications

TV Standard	(PAL/50Hz)	(NTSC/60Hz)
Number of lines	625	525
Playback	Multi standard	(PAL/NTSC)

Video Performance

Video DAC	10 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
---------------------	--

	50Hz	60Hz
DVD		
Horiz. resolution	720 pixels	720 pixels
Vertical resolution	576lines	480 lines
VCD		
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)	96,112,128,256kbps & 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)	>95dB
Dynamic Range (1kHz)	>85dB
Cross talk (1kHz)	>85dB
Distortion/Noise (1kHz)	>75dB
MPEG MP3	MPEG Audio L3

Connections

YpbPr	Cinch 3x
Video output	Cinch(yellow)
Audio L+R output	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 235 mm
Weight	Approximately 2.0 kg

Power Consumption

Power supply	110V ~ 240V 50 / 60HZ
Power consumption in standby mode	<1.0W
Power consumption	<10W


Specifications subject to change without prior notice

Safety Instructions, Warnings, Notes

Safety Instructions

1. General Safety

Safety regulations require that during a repair:

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

Safety regulations require that after a repair, you must return the unit in its original condition. Pay, in particular, attention to the following points:

- . Route the wires/cables correctly, and fix them with the mounted cable clamps.
- . Check the insulation of the mains lead for external damage.
- . Check the electrical DC resistance between the mains plug and the secondary side:
 - 1) Unplug the mains cord, and connect a wire between the two pins of the mains plug.
 - 2) Set the mains switch the "on" position (keep the mains cord unplugged).
 - 3) Measure the resistance value between the mains plug and the front panel, controls, and chassis bottom.
 - 4) Repair or correct unit when the resistance measurement is less than 1M Ω .
 - 5) Verify this, before you return the unit to the customer/user (ref. UL-standard no. 1492).
 - 6) Switch the unit "off", and remove the wire between the two pins of the mains plug.

2. Laser Safety

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

Laser device unit

Type : Semiconductor laser GaAlAs

Wavelength : 650nm (DVD)

: 780nm (VCD/CD)

Output power : 7mW (VCD/CD)

: 10mW (DVD)

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.

Warnings

1. General

. All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are at the same potential as the mass of the set by a wristband with resistance. Keep components and tools at this same potential. Available ESD protection equipment:

- 1) Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
- 2) Wristband tester 4822 344 13999.

. Be careful during measurements in the live voltage section. The primary side of the power supply, including the heat sink, carries live mains voltage when you connect the player to the mains (even when the player is "off!"). It is possible to touch copper tracks or components in this unshielded primary area, when you service the player. Service personnel must take precautions to prevent touching this area or components in this area. A "lighting stroke" and a stripe-marked printing on the printed wiring board, indicate the primary side of the power supply.

. Never replace modules, or components, while the unit is "on".

2. Laser


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

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

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

Lead-Free Requirement for Service

IDENTIFICATION:

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 Instructions

The following guidelines show how to dismantle the player.

Step1: Remove 5 screws around the Top Cover. And remove it. (Figure 1)

Step2: If it is necessary to dismantle Loader or Front Panel, It should be removed the front door assembly first.(Figure 2) If the tray can't open in normal way, you can make it by pushing the guider manually using the slot below the bottom chassis with a tool. (Figure 2&3)

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

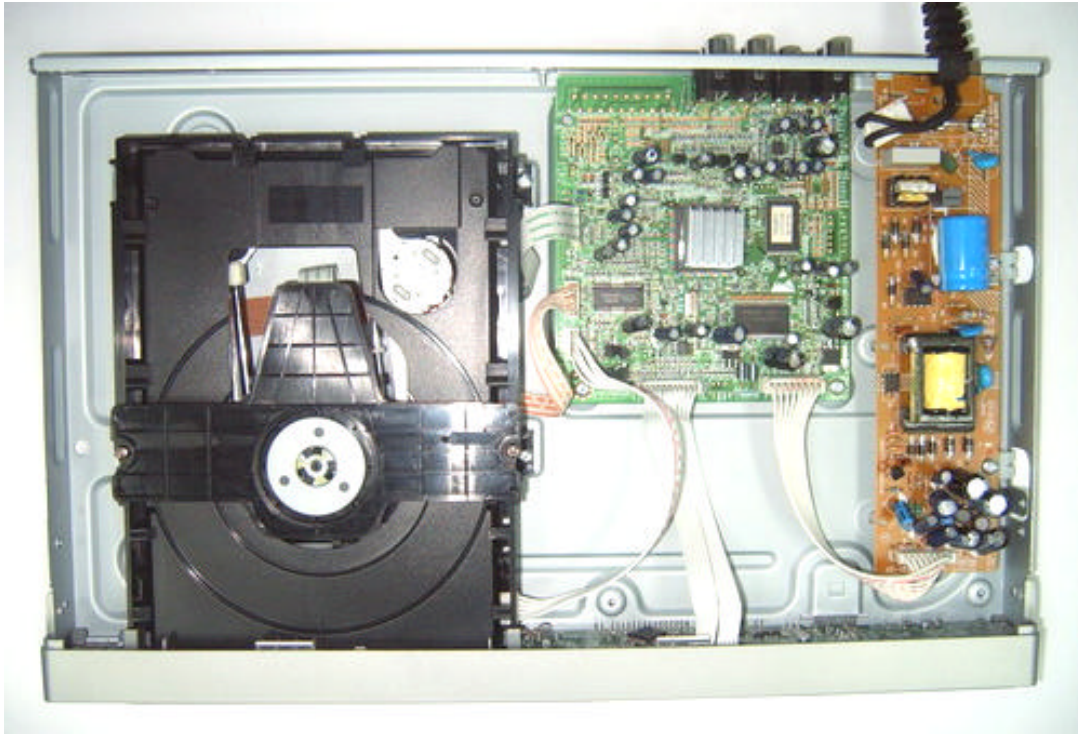


Figure 1



Figure 2

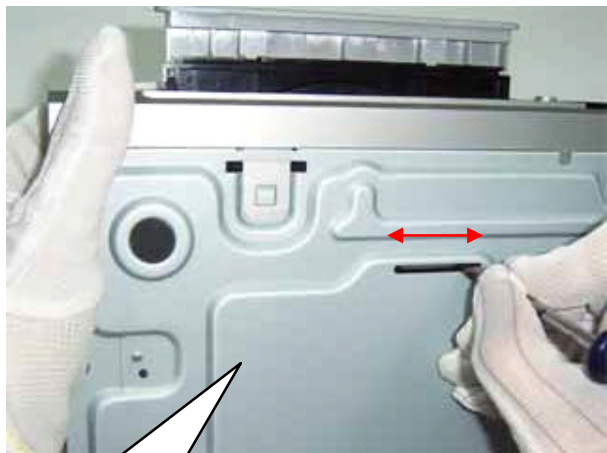


Figure 3

Push the guider until the tray out. Make sure to operate gently to avoid damage happening.

Mechanical and Dismantling Instructions

Step3: Dismantling Loader : First, disconnect the 3 connectors aiming in the figure, and then remove the 4 screws at both side of the loader. (Figure 4)

Step4: Dismantling Front Panel: disconnect the connector aiming in the figure, then release the snaps on the both side of Front panel and gently pull the panel out from the set. (Figure 5&6)

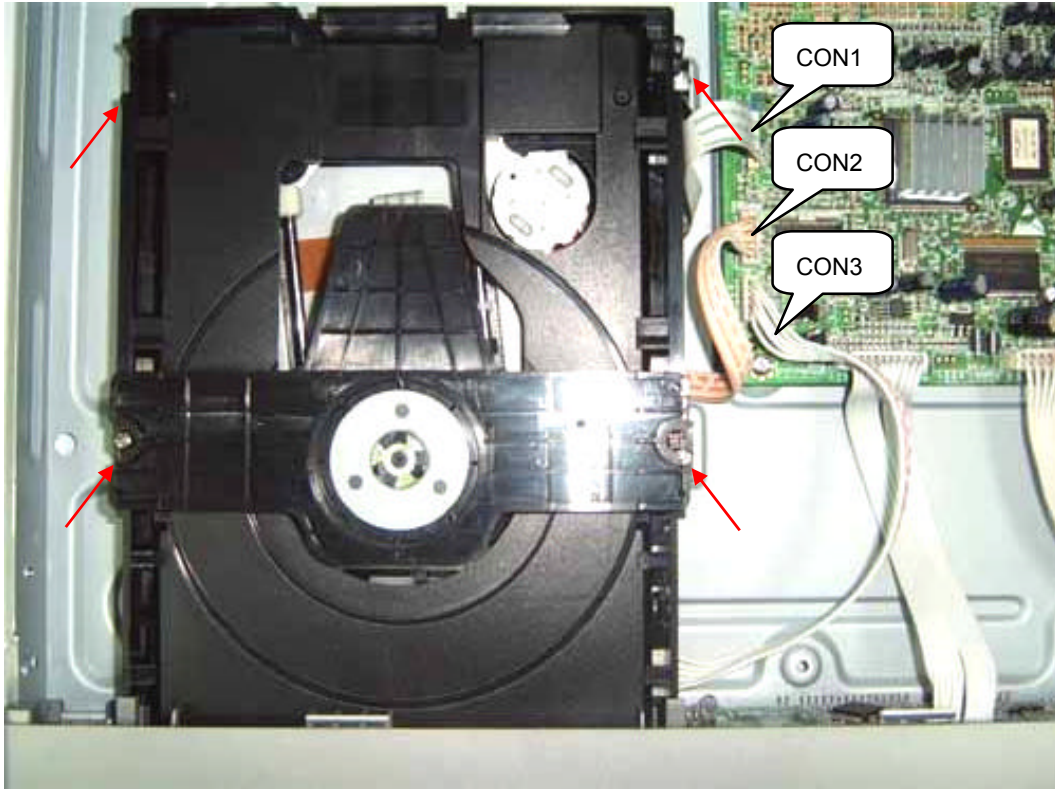


Figure 4

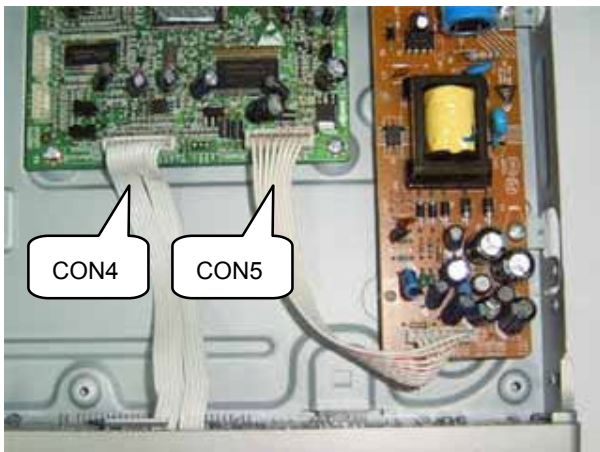


Figure 5

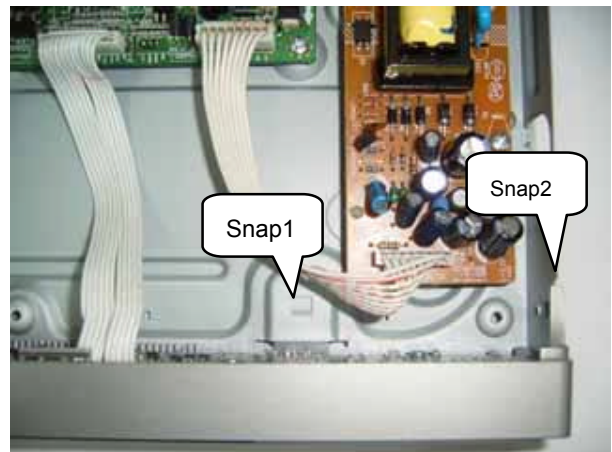


Figure 6

Mechanical and Dismantling Instructions

Step5:Dismantling Main Board, first disconnect the 2 connectors, and then remove the 4 screws. (Figure 7)

Step6: Remove the 2 screws on power board to dismantle the power board. (Figure 8)

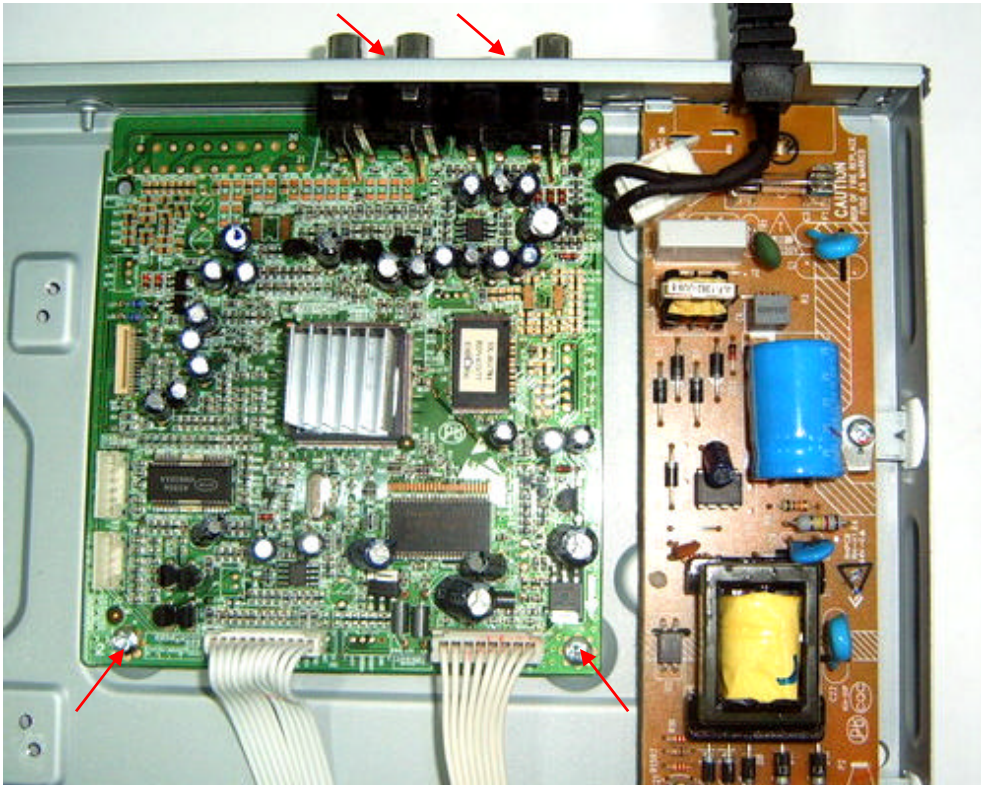


Figure 7

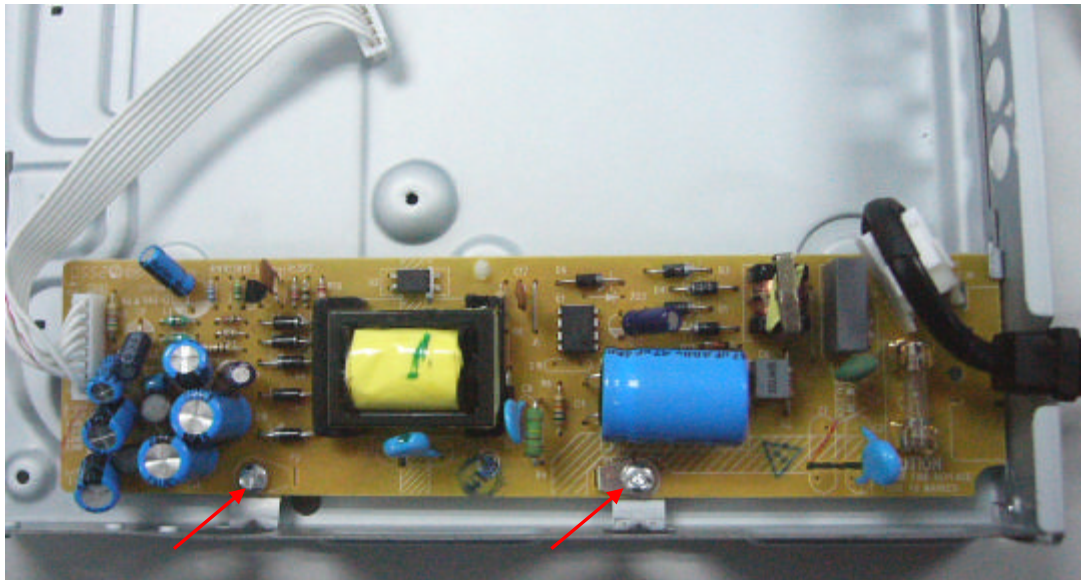


Figure 8

Mechanical and Dismantling Instructions

ATTENTION OF REPAIRING

Make sure adding silicon glue to fix the capacitor C4 after repairing. (Avoid the hazard of C4 touching the Top Cover)

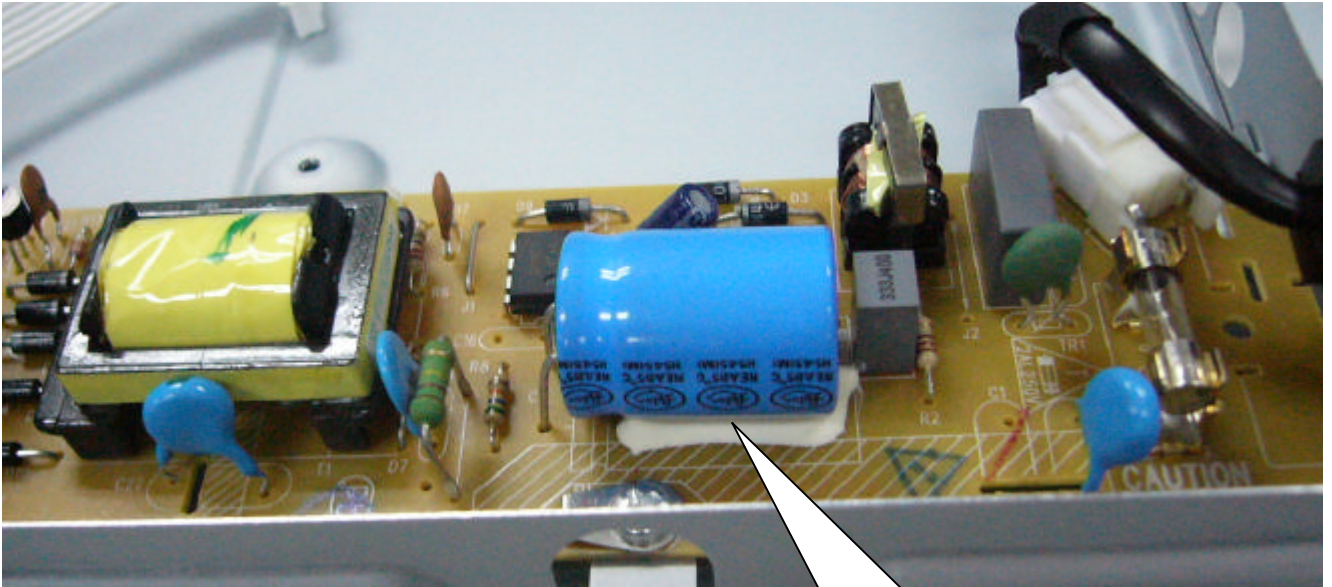


Figure 9

Add Silicon glue or Heat glue to fix C4 to keep this status

Software Upgrade

A. 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)
File Name: DVP3XXX_XX.BIN
 Power on the set and open the tray, then press <6><5> to check the File Name.

Note: It is required capital letter for the File System name.

- 2) Burn the data onto a blank CDR

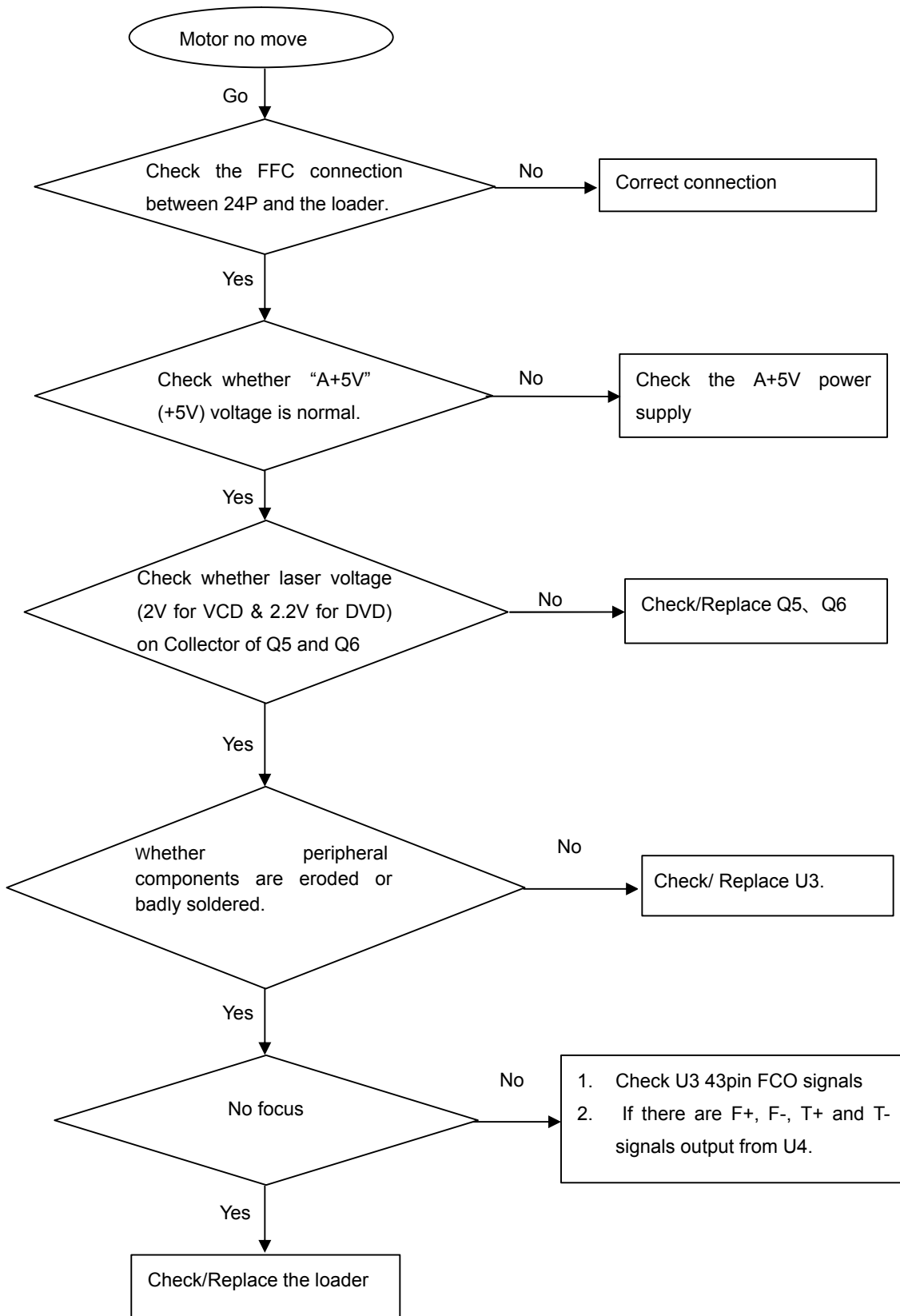
B. Procedure for software upgrade:

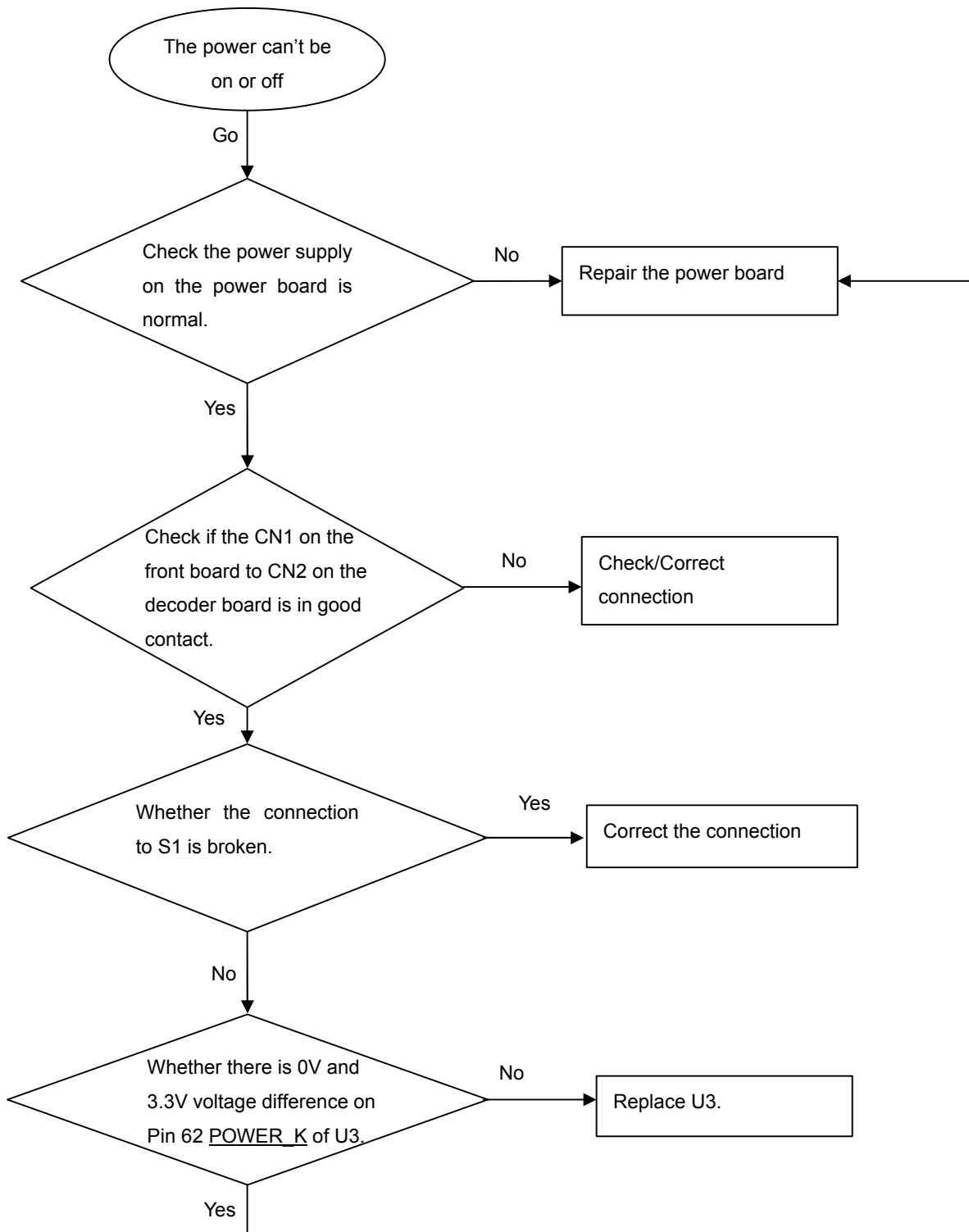
- 1) Power up the set and insert the prepared Upgrade CDR.
- 2) The set will starts reading disc & response with the following display on TV screen:
 SMART UPGRADE
 READ
- 3) About 2 seconds later, the TV screen will display
 20 SMART UPGRAD
 UPGRADE TO VXXX. XX. XX.
 <X> <0>
- 4) After 20 seconds later, the upgrading will proceed automatically, and the TV screen display as below:
 UPGRADING...
DON'T POWER OFF
- 5) The upgraded disc will automatically out when upgrading complete, then take out the disc.
- 6) Power off the set and restart set.

C. Read out the software versions to confirm upgrading

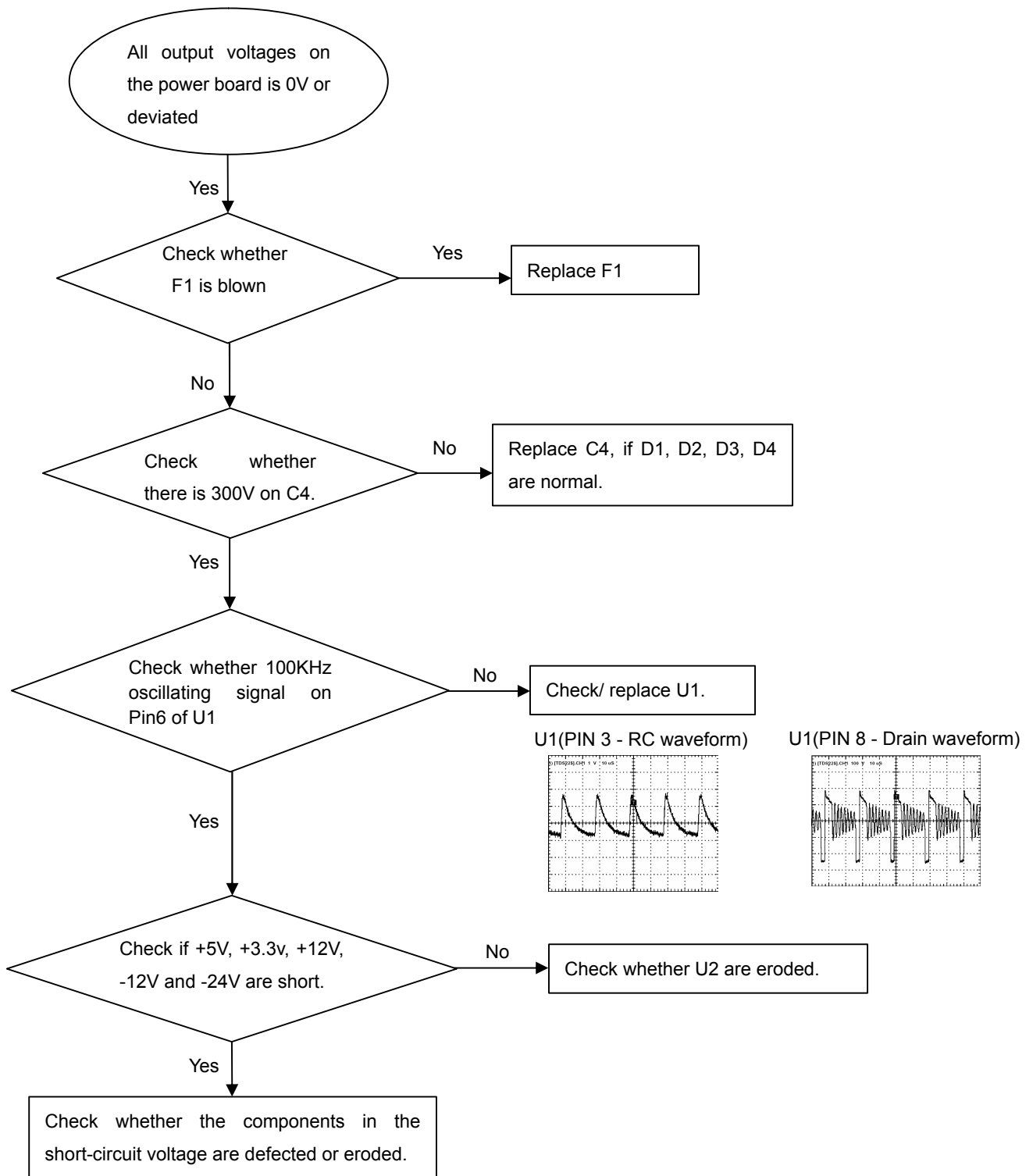
- 1) Power up the set.
- 2) Press <7><7><7><7> button.
 The software version and other information are display on the TV screen as follows:
 XXXXXXXX (Date)
 VER: XX.XXX.XXX. (Version of the certification)
 SC: XXX (Version of the servo)
 F/W ID (Version of the kernel and the software)
 CHIP ID (Check sum)
 PASSWORD
 REGION
 RATING
 CURRENT MODEL
 EXIT SETUP

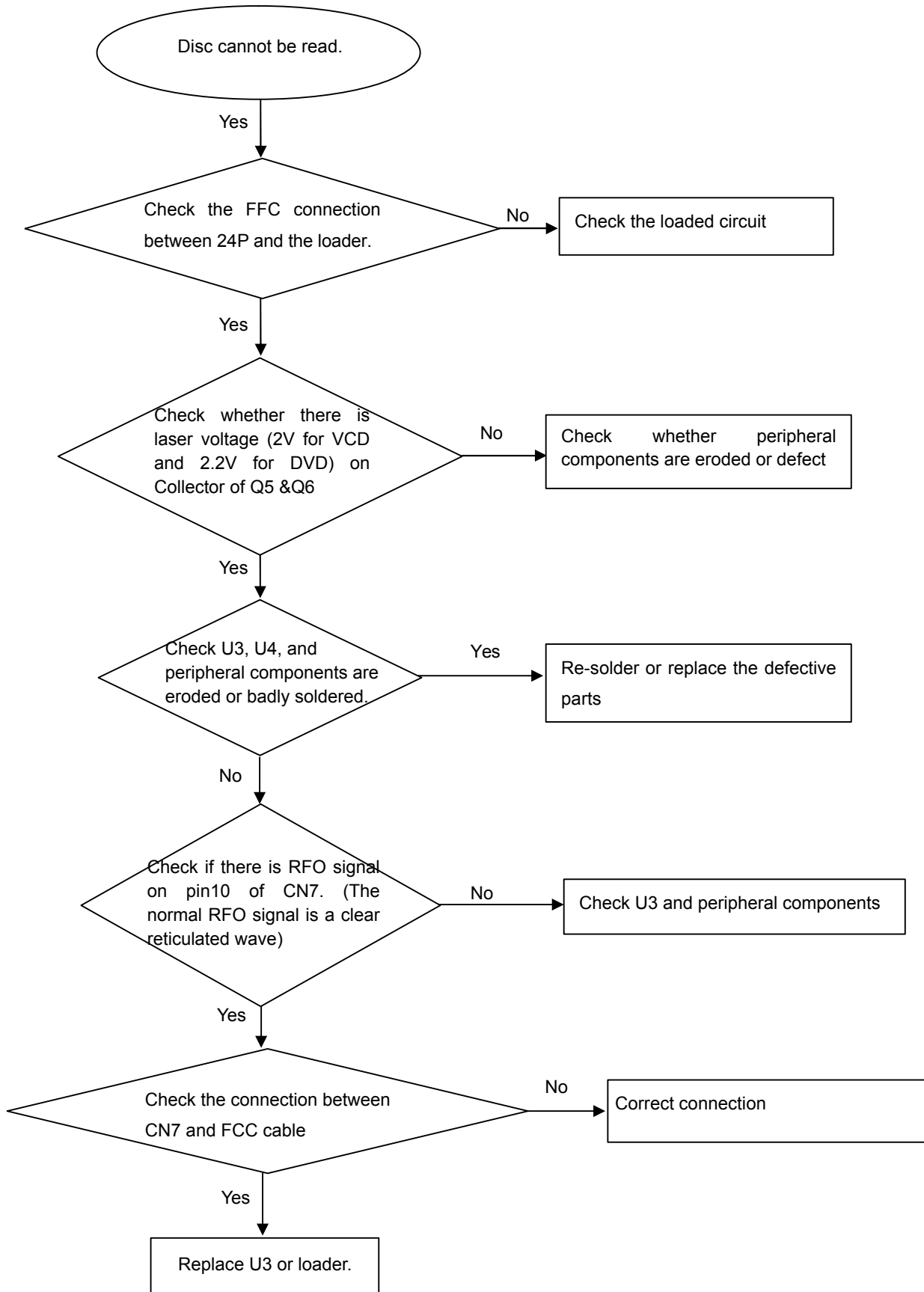
Caution: The set must not be power off during upgrading, in that case the decoder board will be damaged entirely.

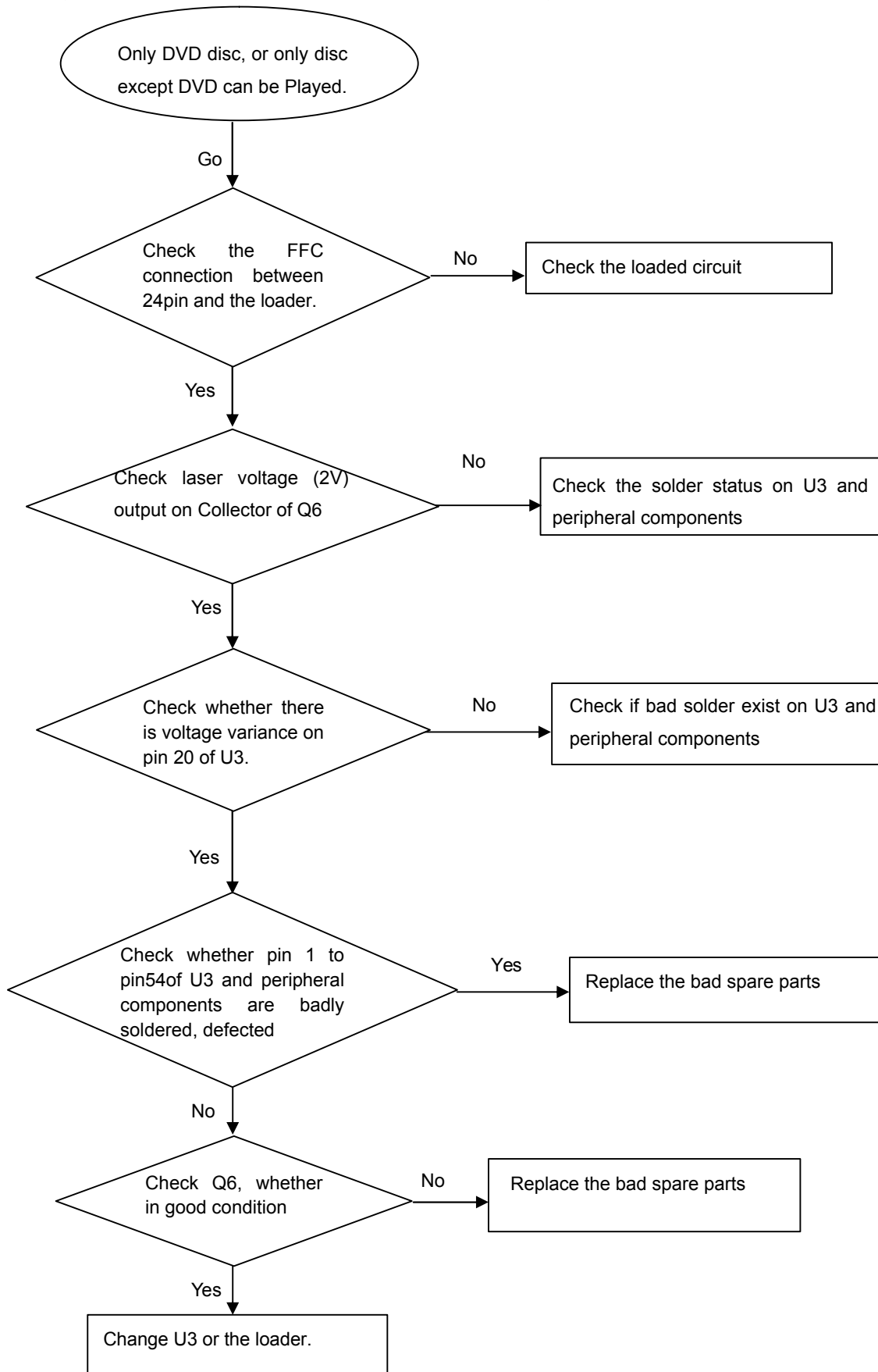
Spindle motor does not move

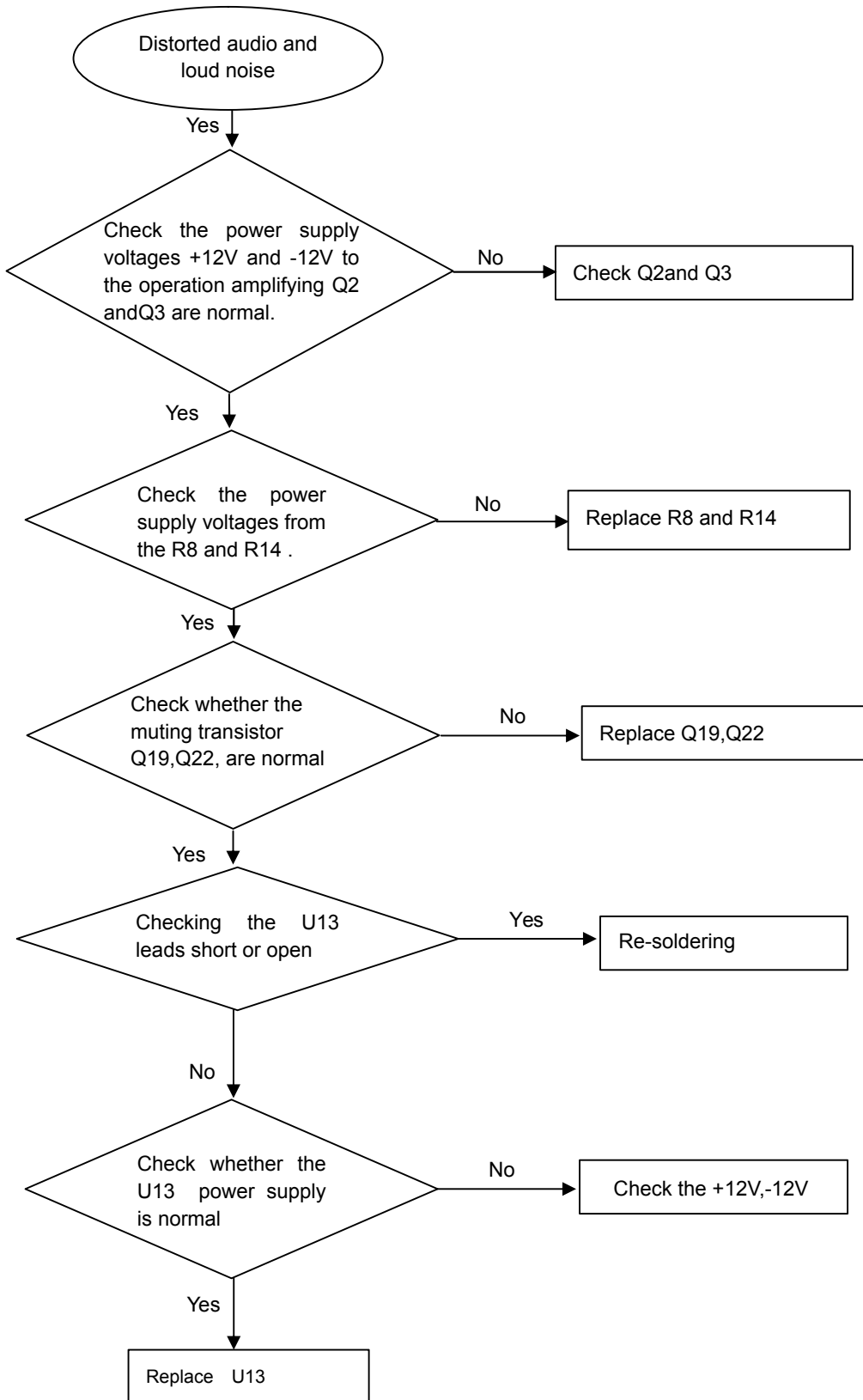
The power can not be on or off

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

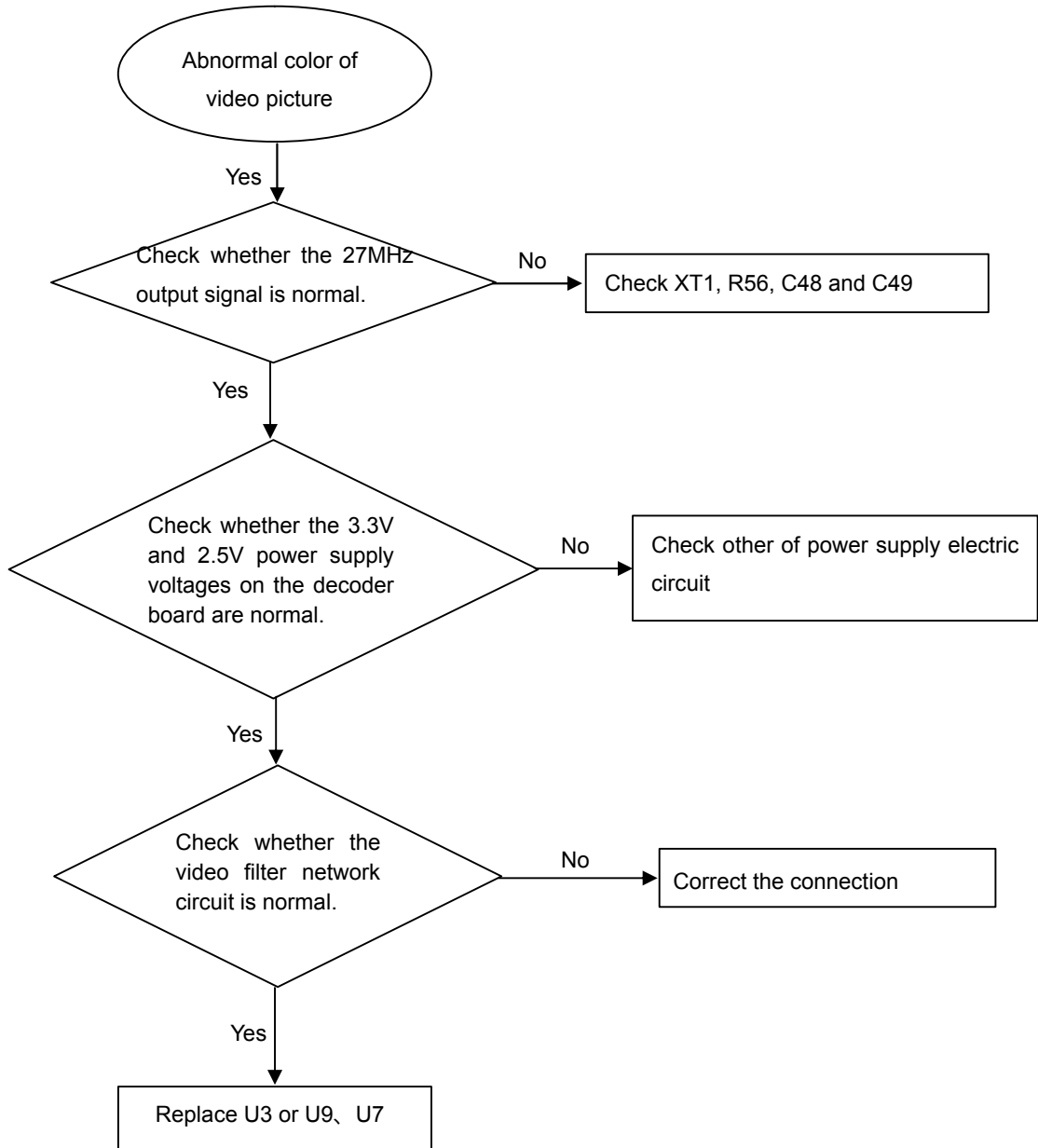


Disc cannot be read.

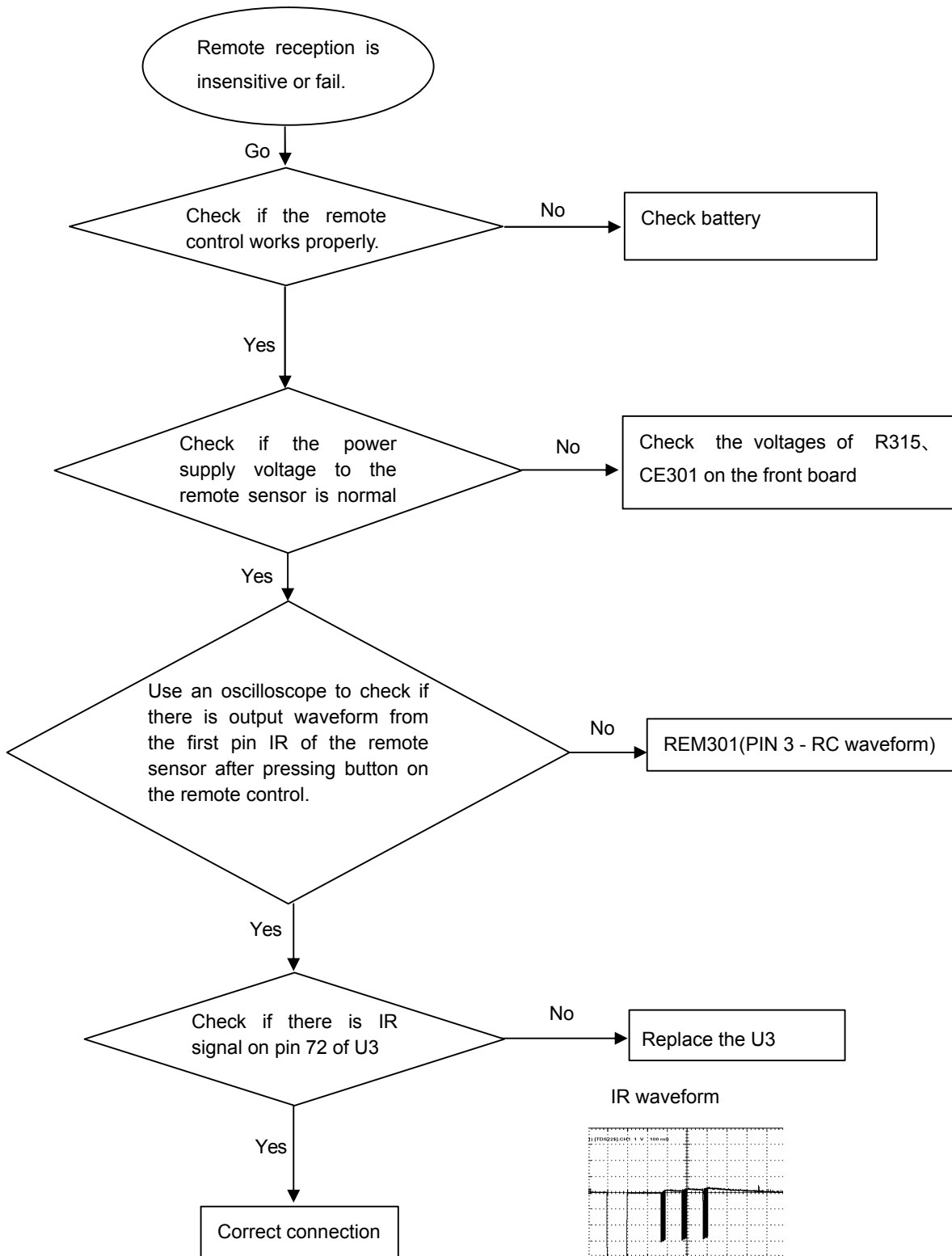
Only DVD disc or only disc except DVD can be played

Distorted audio and loud noise

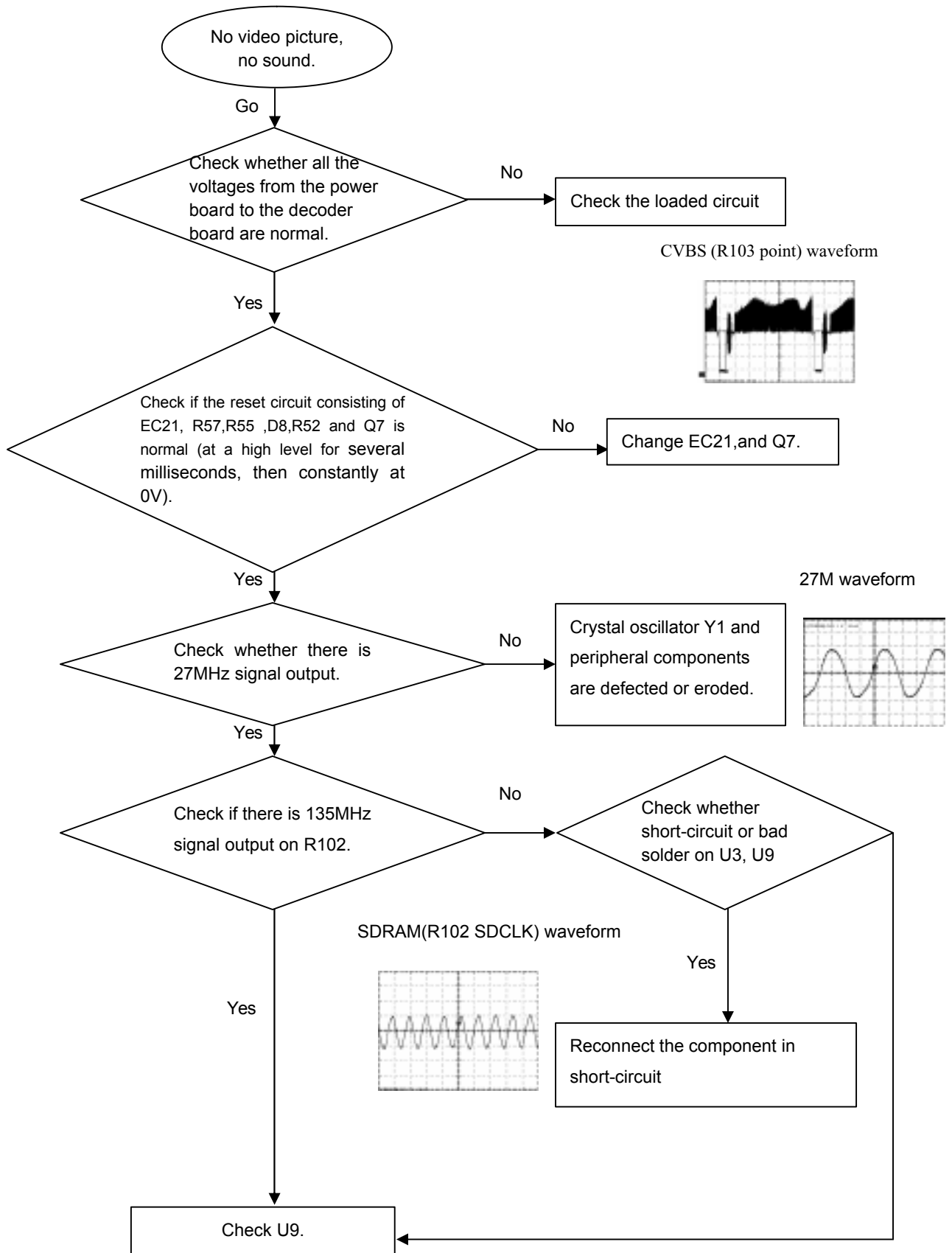
Abnormal color of video picture



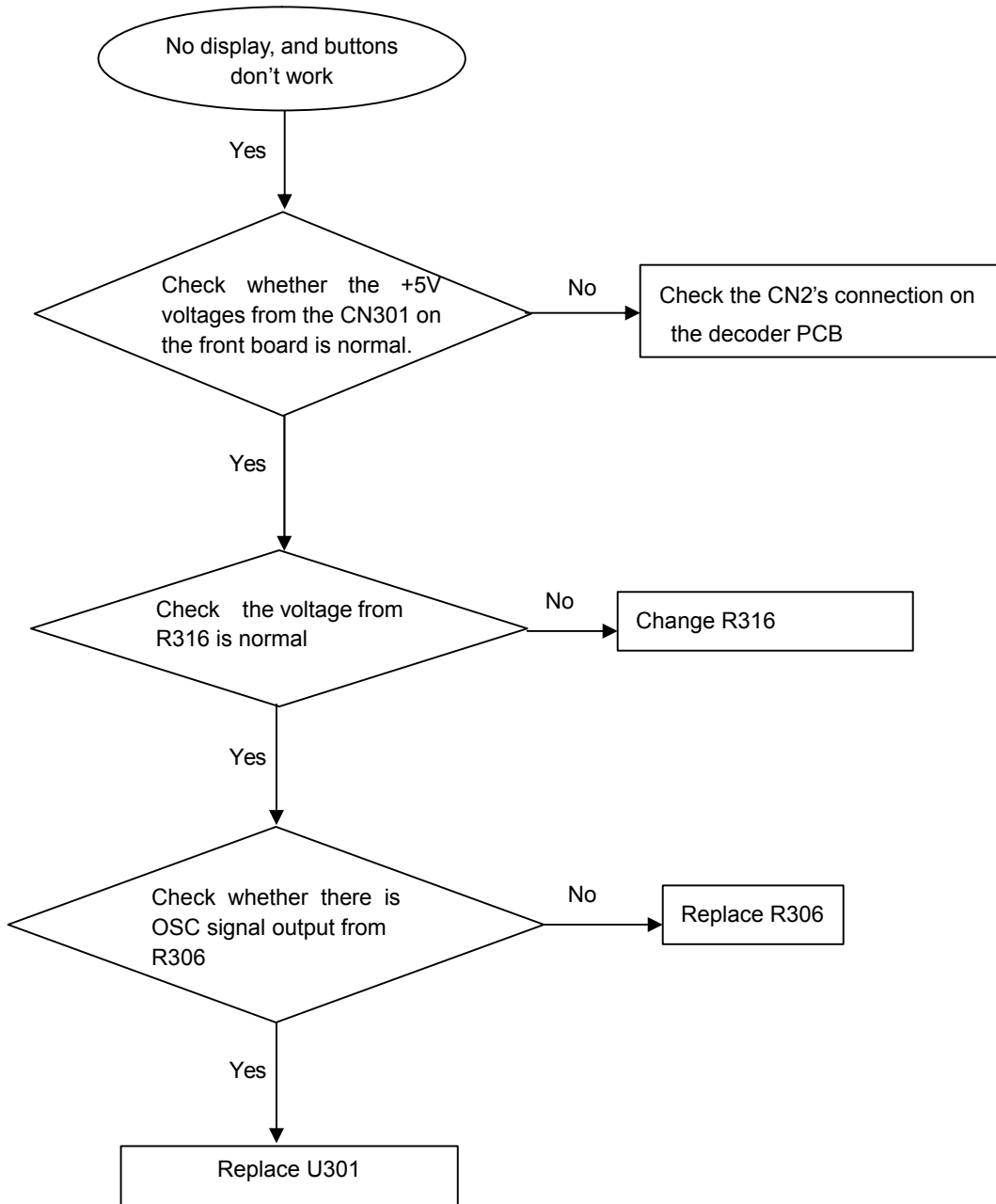
Remote reception is insensitive or fails.



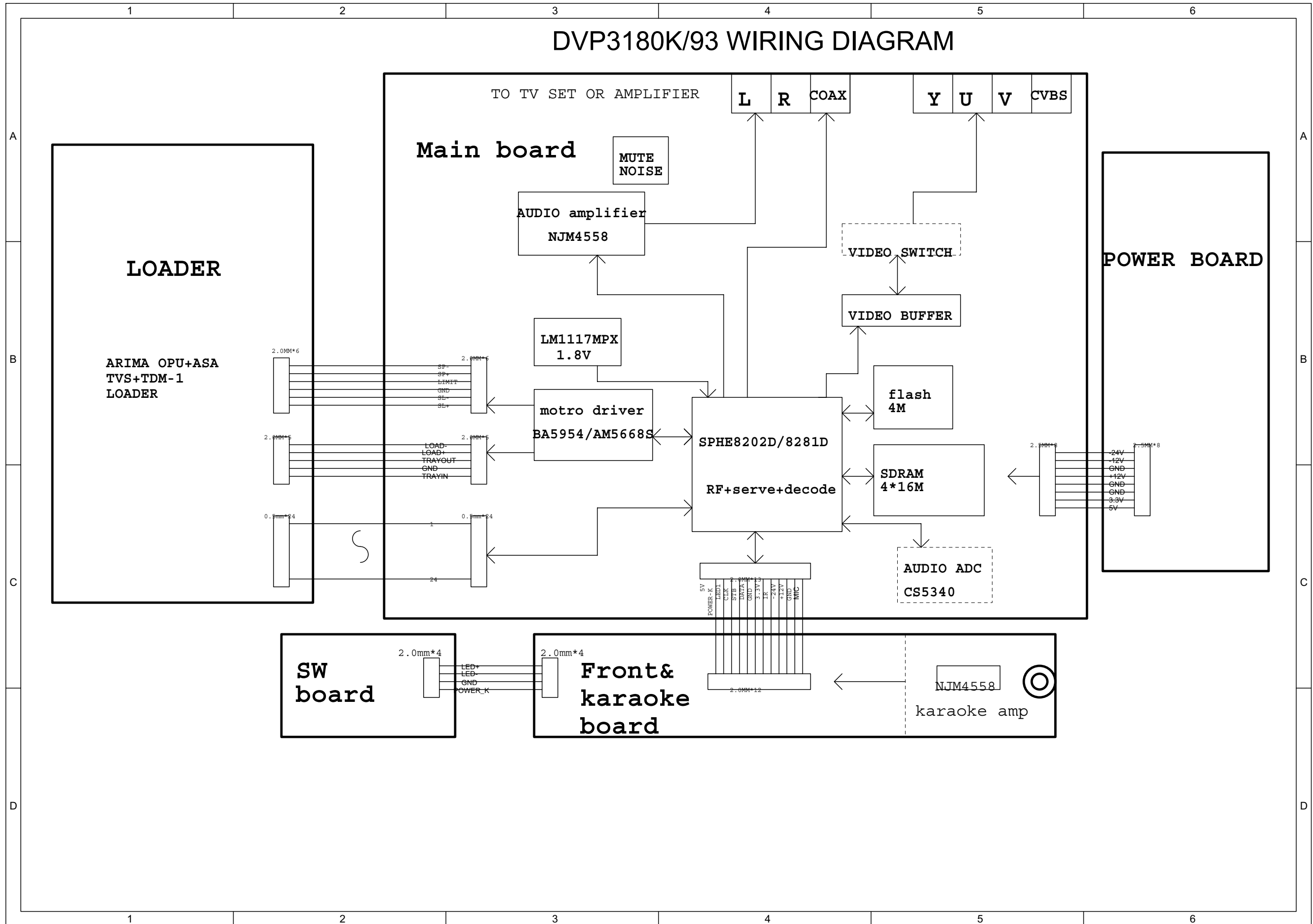
No video picture, no sound.



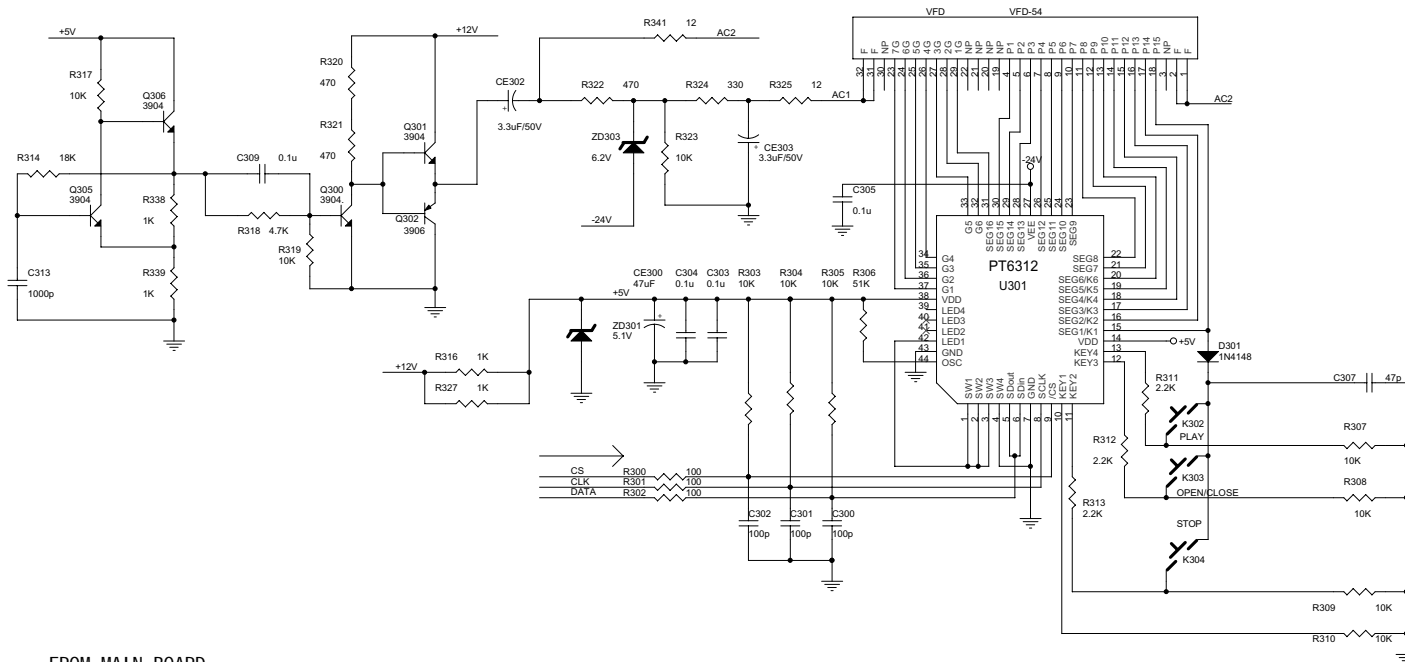
No display on VFD, and buttons don't work



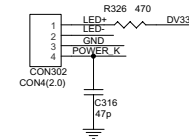
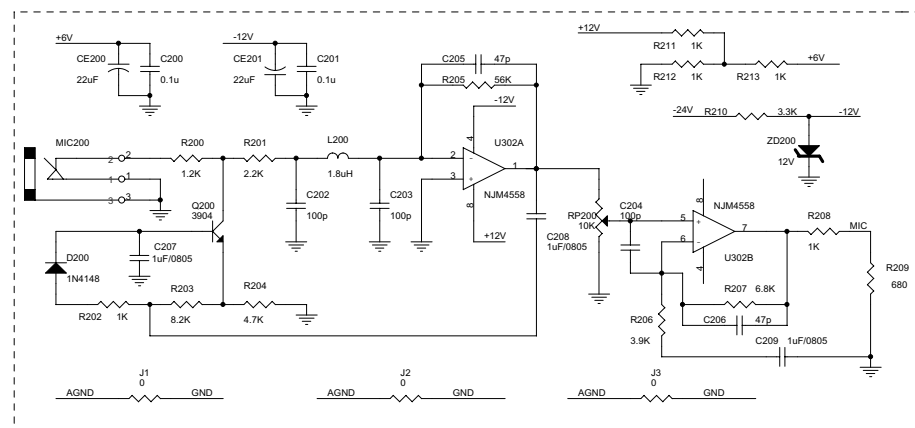
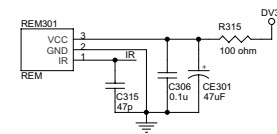
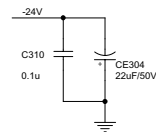
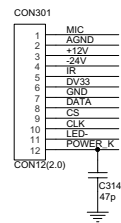
DVP3180K/93 WIRING DIAGRAM



Front Board Electric Diagram For DVP3180K/93

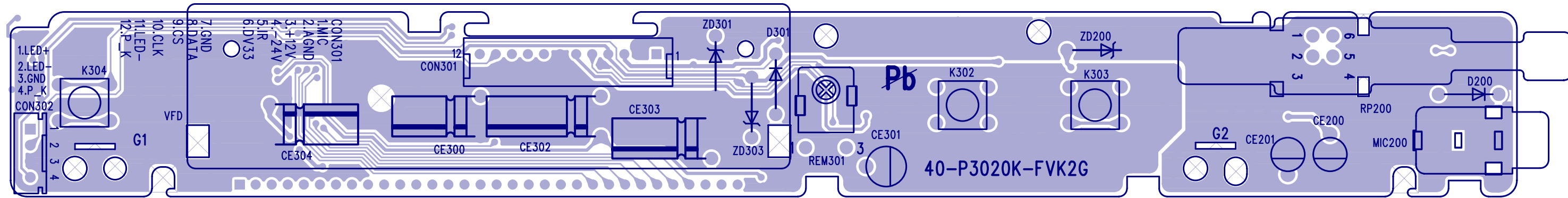


FROM MAIN BOARD

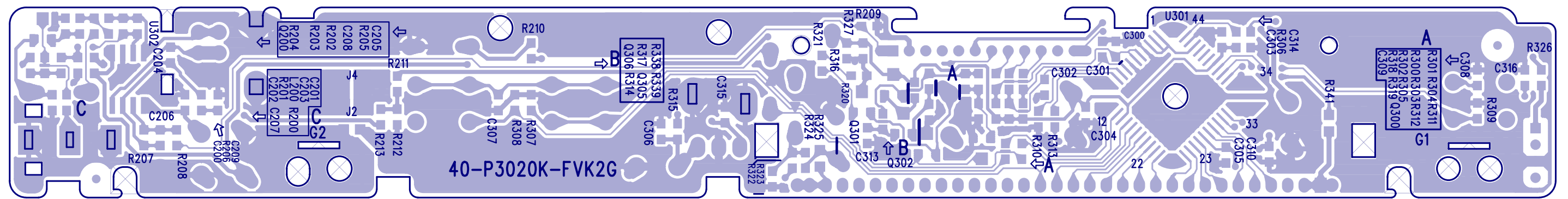


When have no karaoke, this inside of circle a piece is "OPEN"

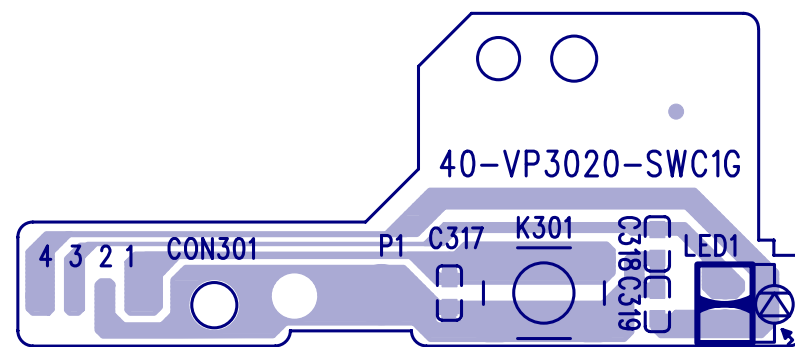
Front Board Print-Layout (Top Side) for DVP3180K/93



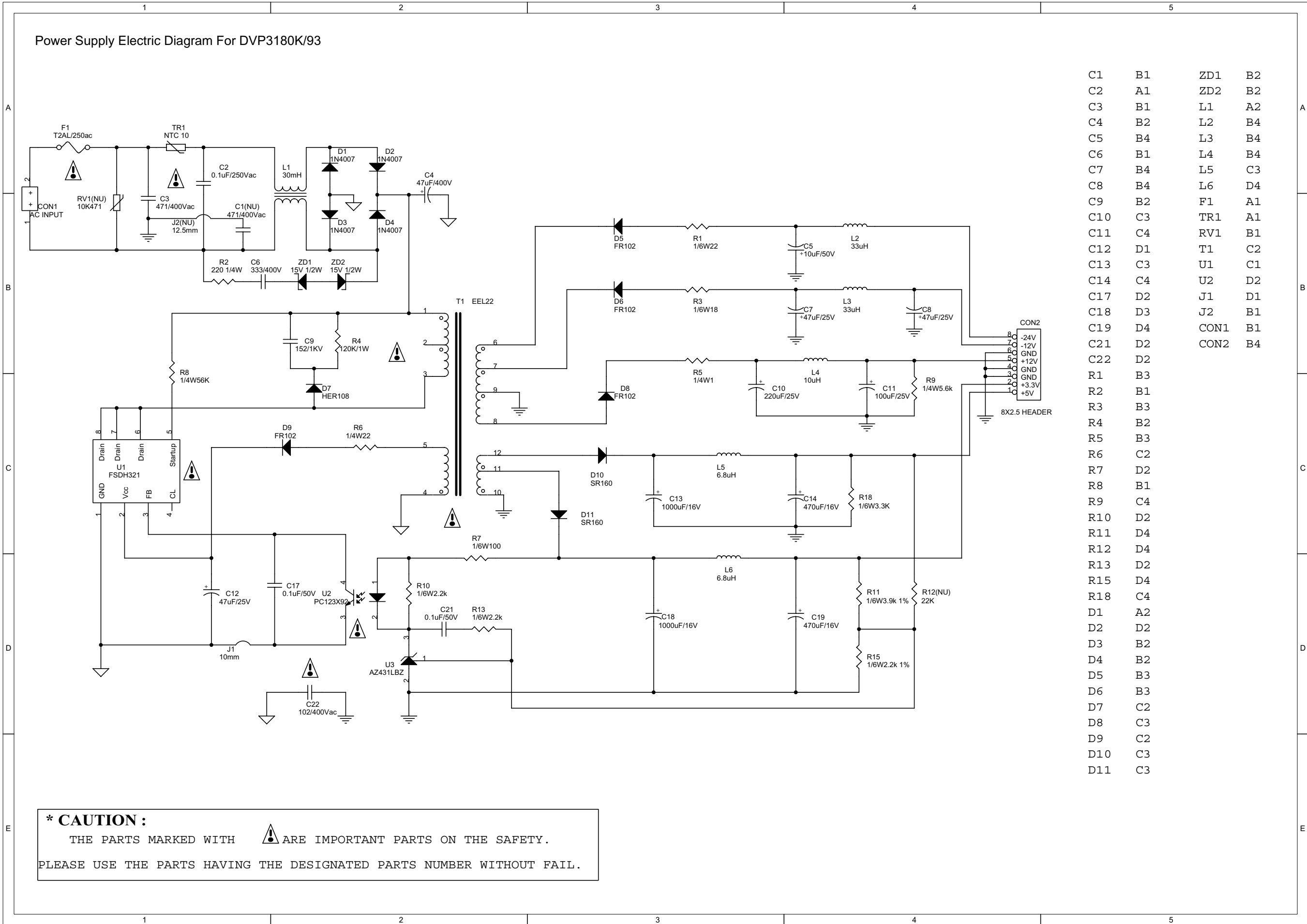
Front Board Print-Layout (Bottom Side) for DVP3180K/93




Switch Board Print-Layout (Bottom Side) for DVP3180K/93



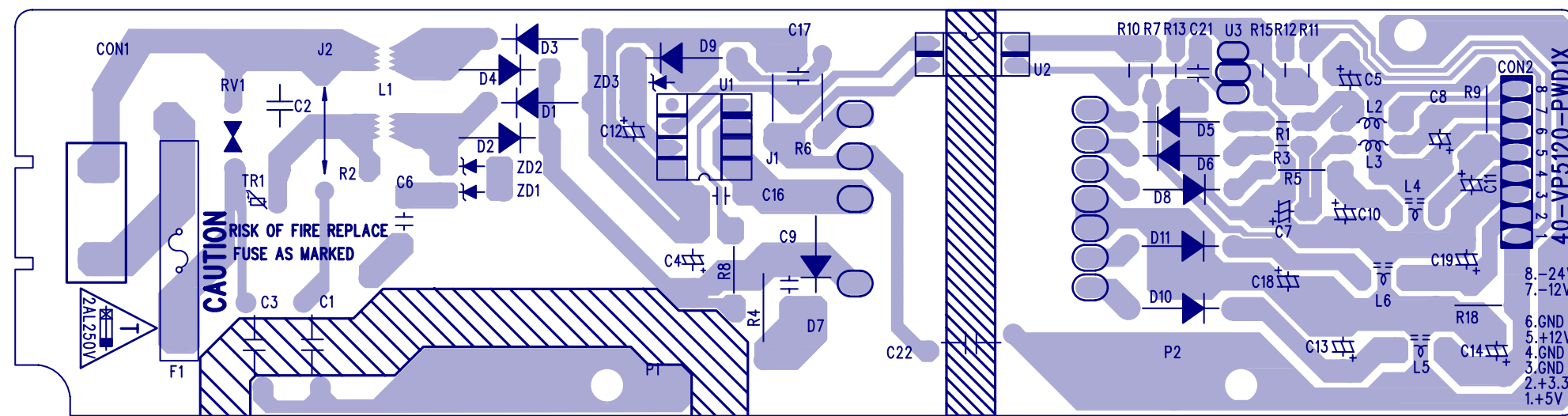
Power Supply Electric Diagram For DVP3180K/93



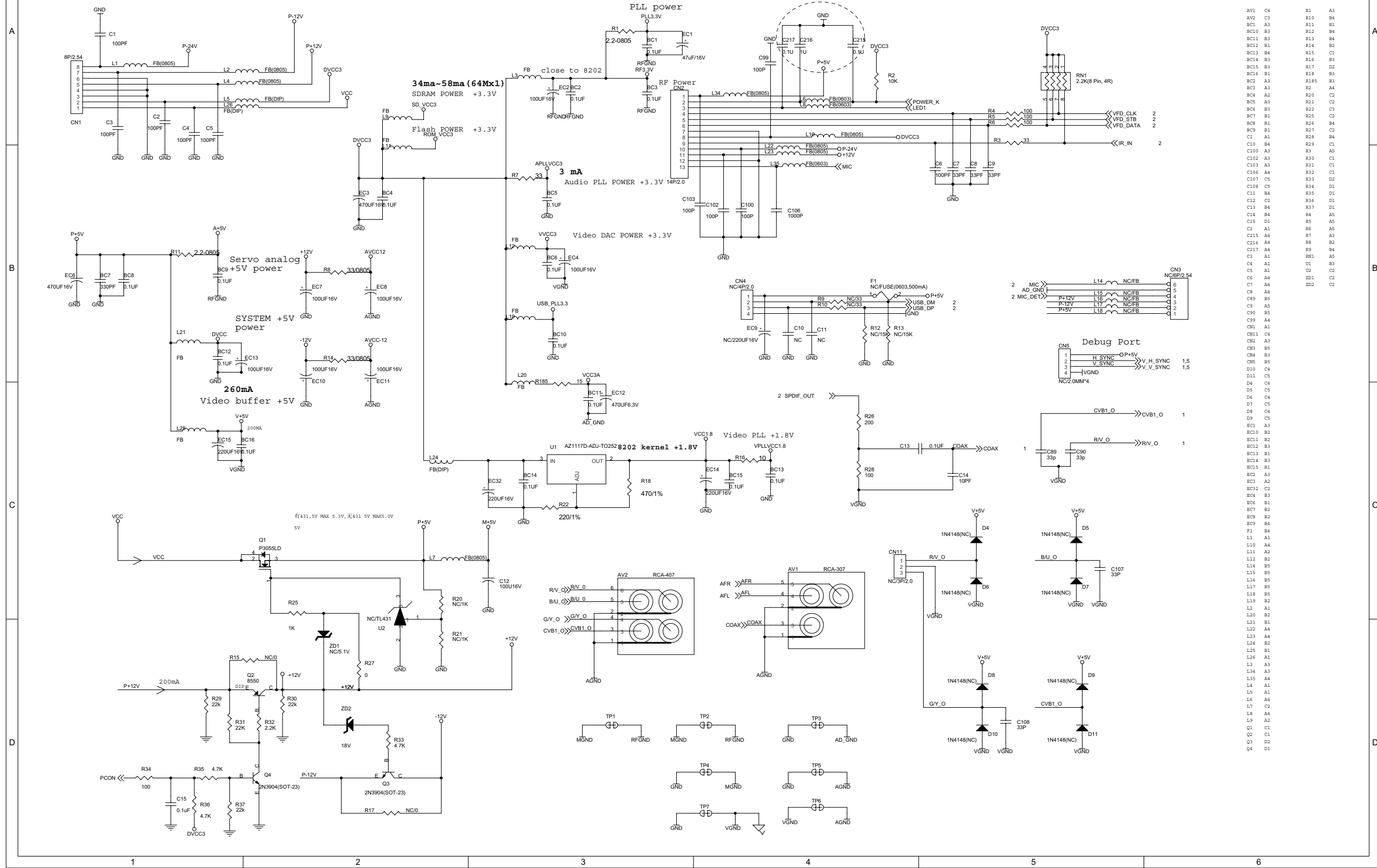
C1	B1	ZD1	B2
C2	A1	ZD2	B2
C3	B1	L1	A2
C4	B2	L2	B4
C5	B4	L3	B4
C6	B1	L4	B4
C7	B4	L5	C3
C8	B4	L6	D4
C9	B2	F1	A1
C10	C3	TR1	A1
C11	C4	RV1	B1
C12	D1	T1	C2
C13	C3	U1	C1
C14	C4	U2	D2
C17	D2	J1	D1
C18	D3	J2	B1
C19	D4	CON1	B1
C21	D2	CON2	B4
C22	D2		
R1	B3		
R2	B1		
R3	B3		
R4	B2		
R5	B3		
R6	C2		
R7	D2		
R8	B1		
R9	C4		
R10	D2		
R11	D4		
R12	D4		
R13	D2		
R15	D4		
R18	C4		
D1	A2		
D2	D2		
D3	B2		
D4	B2		
D5	B3		
D6	B3		
D7	C2		
D8	C3		
D9	C2		
D10	C3		
D11	C3		

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

Power Board Print-layout (Bottom Side) for DVP3180K/93

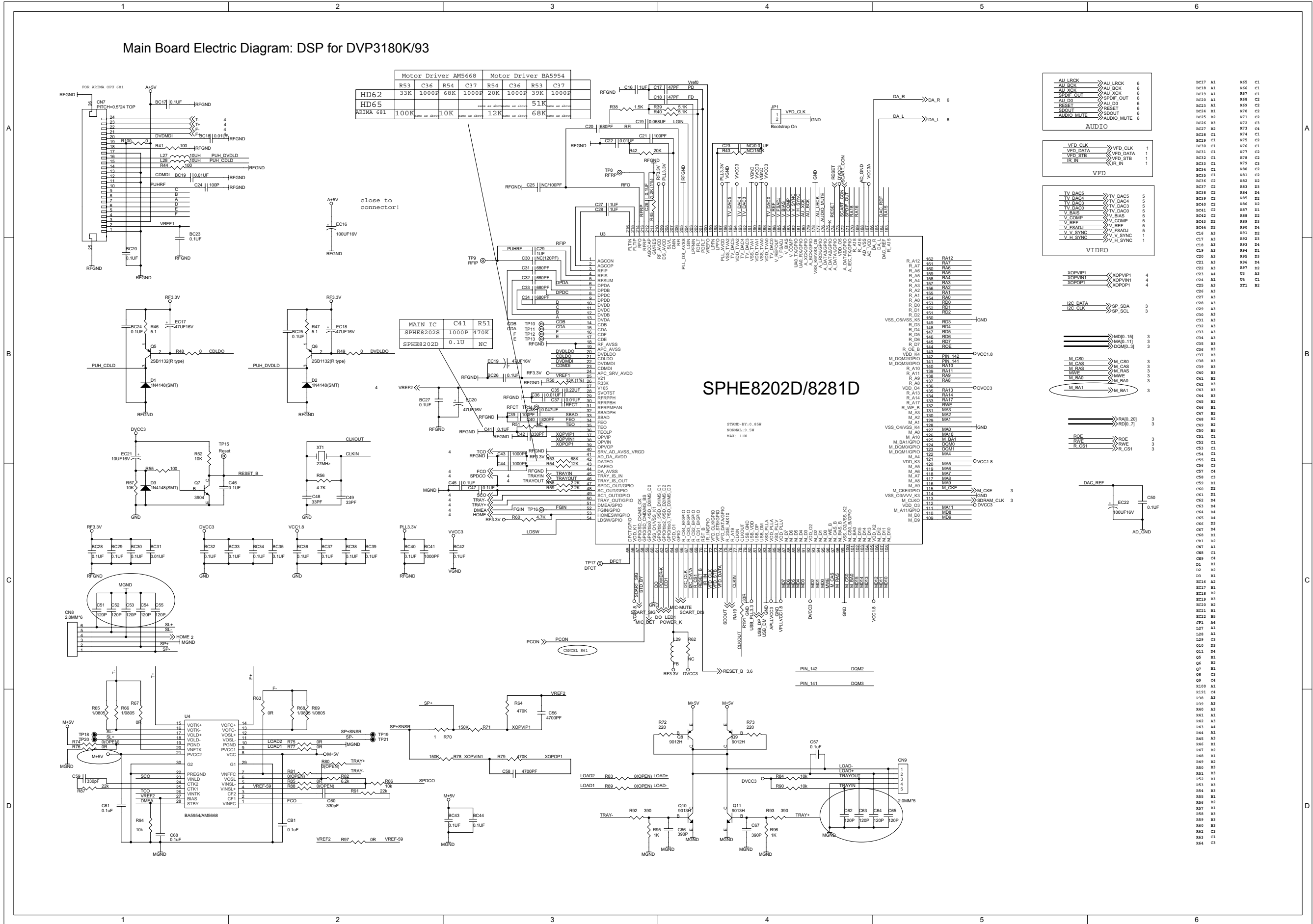


Main Board Electric Diagram: Power & Connector for DVP3180K/93



AV1	C4	R1	A3
AV2	C3	R10	B4
BC1	A3	R11	B1
BC10	B3	R12	B4
BC11	B3	R13	B4
BC12	B1	R14	B2
BC13	B4	R15	C1
BC14	B3	R16	B3
BC15	B3	R17	D2
BC16	B1	R18	B3
BC2	A3	R185	B3
BC3	A3	R2	A4
BC4	A2	R20	C2
BC5	A3	R21	C2
BC6	B3	R22	C3
BC7	B1	R25	C2
BC8	B1	R26	B4
BC9	B1	R27	C2
C1	A1	R28	B4
C10	B4	R29	C1
C100	A3	R3	A5
C102	A3	R30	C1
C103	A3	R31	C1
C106	A4	R32	C1
C107	C5	R33	D2
C108	C5	R34	D1
C11	B4	R35	D1
C12	C2	R36	D1
C13	B4	R37	D1
C14	B4	R4	A5
C15	D1	R5	A5
C2	A1	R6	A5
C215	A4	R7	A3
C216	A4	R8	B2
C217	A4	R9	B4
C3	A1	R91	A5
C4	A1	R1	B3
C5	A1	R2	C2
C6	A4	R201	C2
C7	A4	R202	C2
C8	A4		
C9	A5		
C90	B5		
C99	A4		
C81	A1		
C812	C4		
C82	A3		
C83	B5		
C84	B3		
C85	B1		
C86	B2		
C87	B2		
C88	B2		
C89	B2		
C90	B2		
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C137	B2		
C138	B2		
C139	B2		
C140	B2		
C141	B2		
C142	B2		
C143	B2		
C144	B2		
C145	B2		
C146	B2		
C147	B2		
C148	B2		
C149	B2		
C150	B2		

Main Board Electric Diagram: DSP for DVP3180K/93



Motor Driver AM5668		Motor Driver BA5954					
R53	C36	R54	C37	R54	C36	R53	C37
33K	1000F	68K	1000F	20K	1000F	39K	1000F
HD62						51K	
HD65						68K	
ARIMA 681	100K	10K	12K				

MAIN IC	C41	R51
SPHE8202S	1000P	470K
SPHE8202D	0.1U	NC

SPHE8202D/8281D

STAND-BY: 0.5W
NORMAL: 9.5W
MAX: 11W

Signal	Pin	Signal	Pin
AU_LRCK	8	AU_LRCK	8
AU_BCK	6	AU_BCK	6
AU_XCK	6	AU_XCK	6
SPDEF_OUT	6	SPDEF_OUT	6
AU_DO	6	AU_DO	6
RESET	6	RESET	6
SDOUT	6	SDOUT	6
AUDIO_MUTE	6	AUDIO_MUTE	6

Signal	Pin	Signal	Pin
VFD_CLK	1	VFD_CLK	1
VFD_DATA	1	VFD_DATA	1
VFD_STB	1	VFD_STB	1
R_IN	1	R_IN	1

Signal	Pin	Signal	Pin
TV_DAC5	5	TV_DAC5	5
TV_DAC4	5	TV_DAC4	5
TV_DAC3	5	TV_DAC3	5
TV_DAC2	5	TV_DAC2	5
TV_BAS	5	TV_BAS	5
V_COMP	5	V_COMP	5
V_REF	5	V_REF	5
V_FSDJ	5	V_FSDJ	5
V_V_SYNC	1	V_V_SYNC	1
V_H_SYNC	1	V_H_SYNC	1

Signal	Pin	Signal	Pin
XOPVIP1	4	XOPVIP1	4
XOPVIN1	4	XOPVIN1	4
XOPOP1	4	XOPOP1	4

Signal	Pin	Signal	Pin
ISD_DATA	3	SP_SDA	3
ISD_CLK	3	SP_SCL	3

Signal	Pin	Signal	Pin
M_CS0	3	M_CS0	3
M_CAS	3	M_CAS	3
M_RAS	3	M_RAS	3
M_WE	3	M_WE	3
M_BA0	3	M_BA0	3
M_BA1	3	M_BA1	3

Signal	Pin	Signal	Pin
RA0_20I	3	RA0_20I	3
RD0_7I	3	RD0_7I	3
ROE	3	ROE	3
RWE	3	RWE	3
RC_S1	3	RC_S1	3

Signal	Pin	Signal	Pin
DAC_REF	3	DAC_REF	3

Signal	Pin	Signal	Pin
M_CKE	3	M_CKE	3
SNRAM_CLK	3	SNRAM_CLK	3

Signal	Pin	Signal	Pin
M_CKE	3	M_CKE	3
M_CS0	3	M_CS0	3
M_CS1	3	M_CS1	3
M_CS2	3	M_CS2	3
M_CS3	3	M_CS3	3
M_CS4	3	M_CS4	3
M_CS5	3	M_CS5	3
M_CS6	3	M_CS6	3
M_CS7	3	M_CS7	3
M_CS8	3	M_CS8	3
M_CS9	3	M_CS9	3
M_CS10	3	M_CS10	3
M_CS11	3	M_CS11	3
M_CS12	3	M_CS12	3
M_CS13	3	M_CS13	3
M_CS14	3	M_CS14	3
M_CS15	3	M_CS15	3
M_CS16	3	M_CS16	3
M_CS17	3	M_CS17	3
M_CS18	3	M_CS18	3
M_CS19	3	M_CS19	3
M_CS20	3	M_CS20	3
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M_CS22	3	M_CS22	3
M_CS23	3	M_CS23	3
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M_CS94	3	M_CS94	3
M_CS95	3	M_CS95	3
M_CS96	3	M_CS96	3
M_CS97	3	M_CS97	3
M_CS98	3	M_CS98	3
M_CS99	3	M_CS99	3
M_CS100	3	M_CS100	3

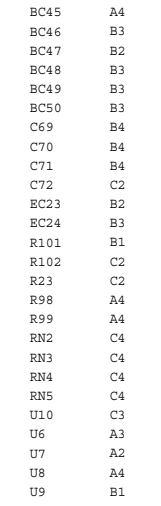
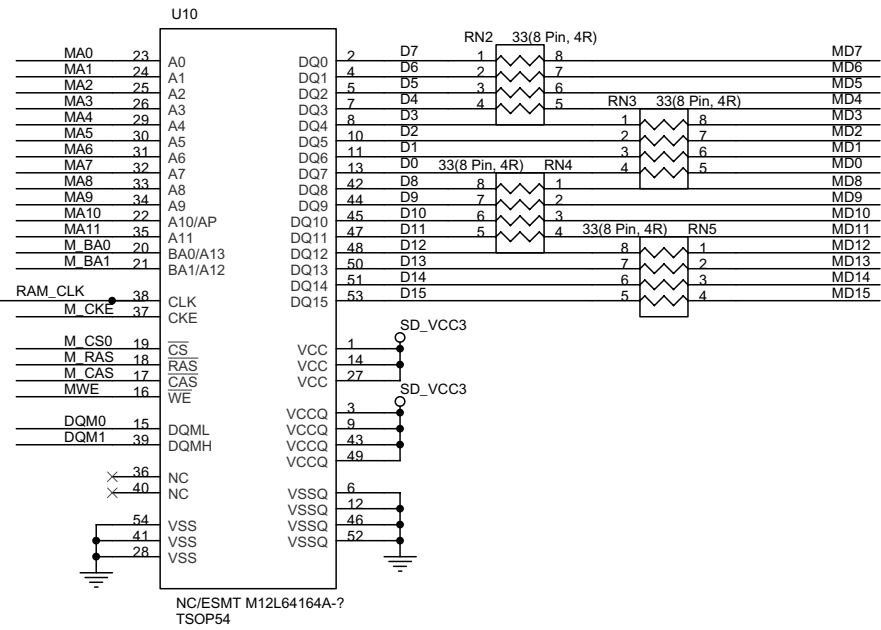
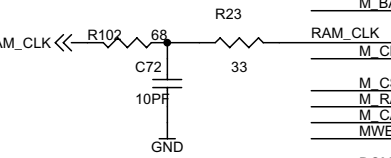
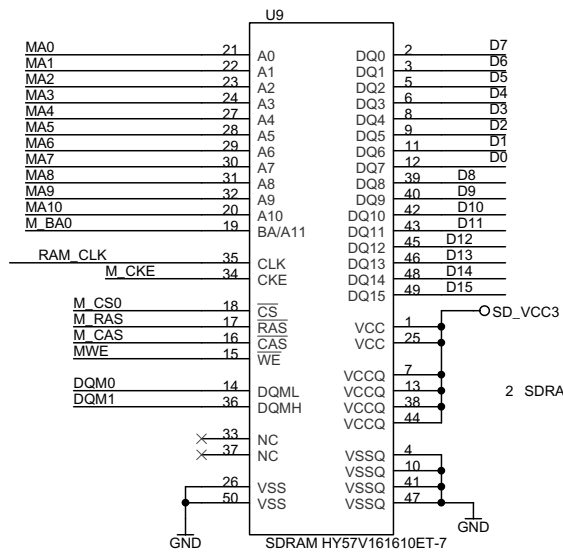
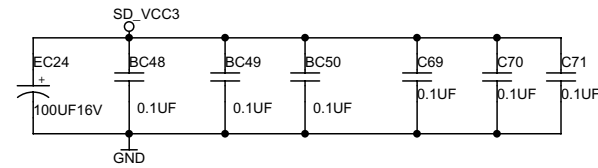
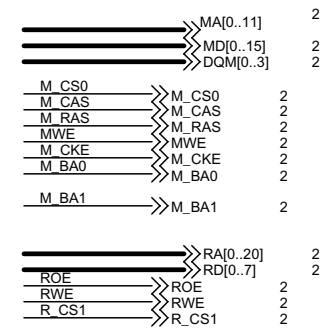
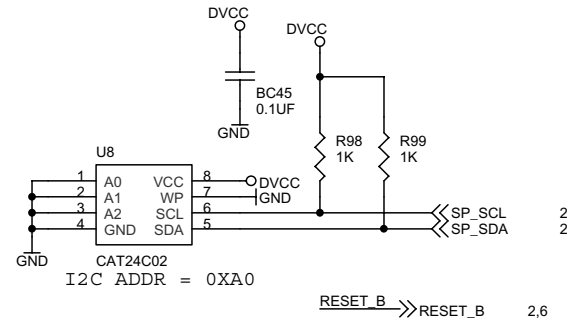
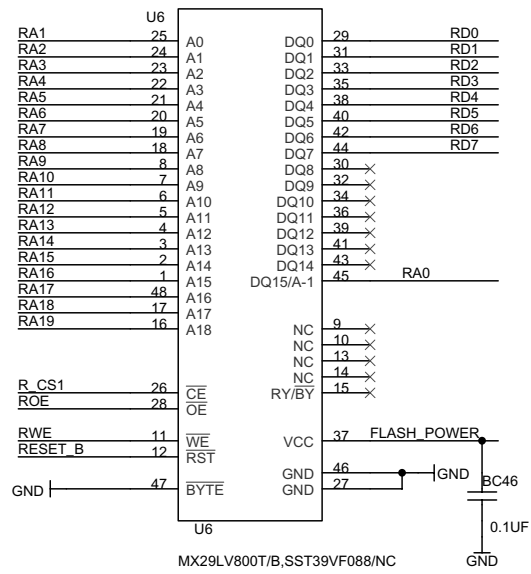
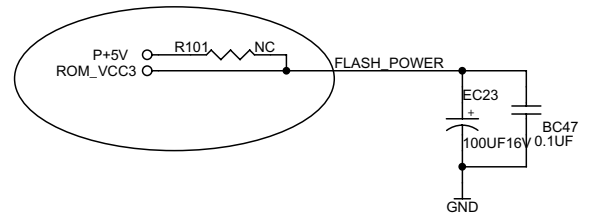
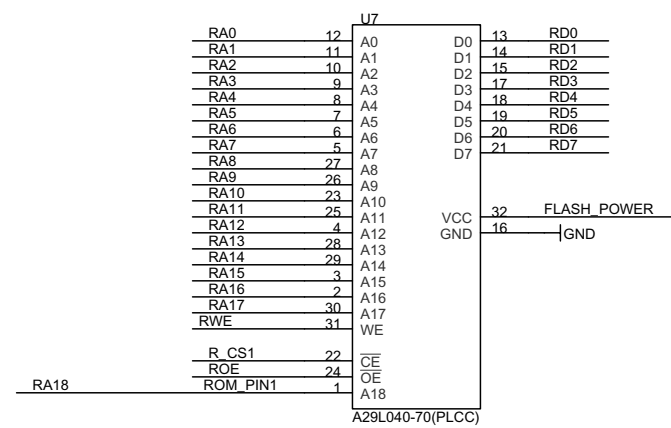
Signal	Pin	Signal	Pin
DA_R	6	DA_R	6
DA_L	6	DA_L	6

Signal	Pin	Signal	Pin
DA_R	6	DA_R	6
DA_L	6	DA_L	6

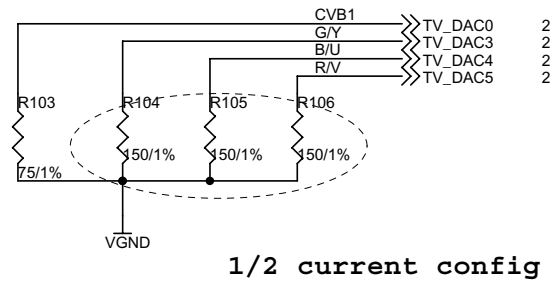
Signal	Pin	Signal	Pin
DA_R	6	DA_R	6
DA_L	6	DA_L	6

Signal	Pin	Signal	Pin
DA_R	6	DA_R	6
DA_L	6	DA_L	6

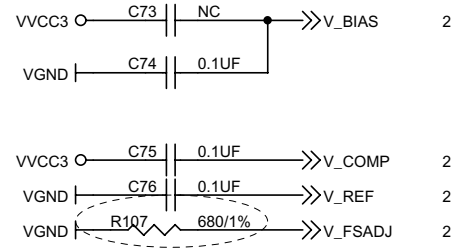
Main Board Electric Diagram: Memory for DVP3180K/93



Main Board Electric Diagram: Video Buffer for DVP3180K/93



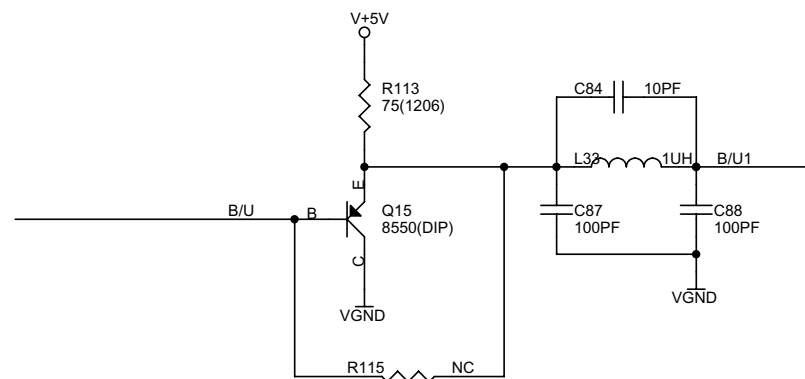
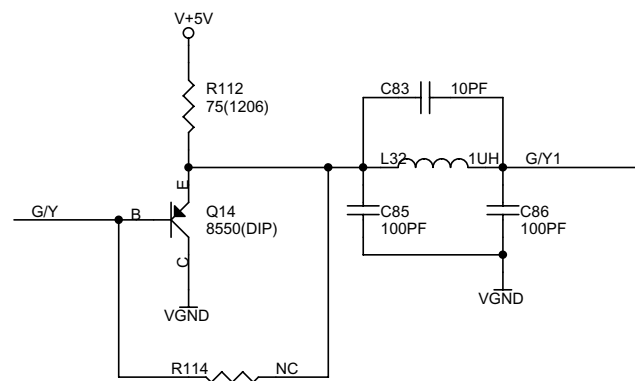
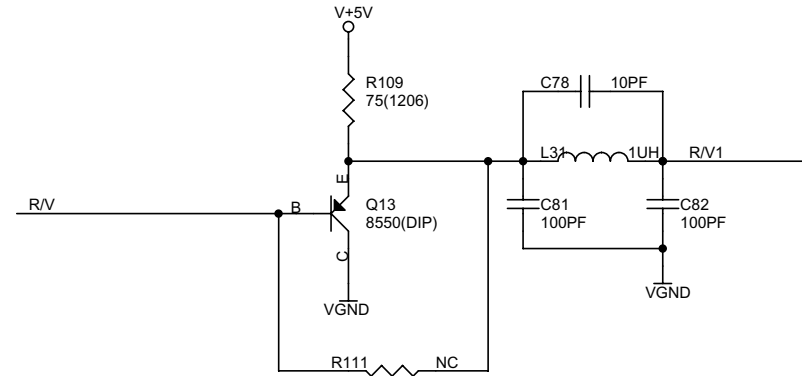
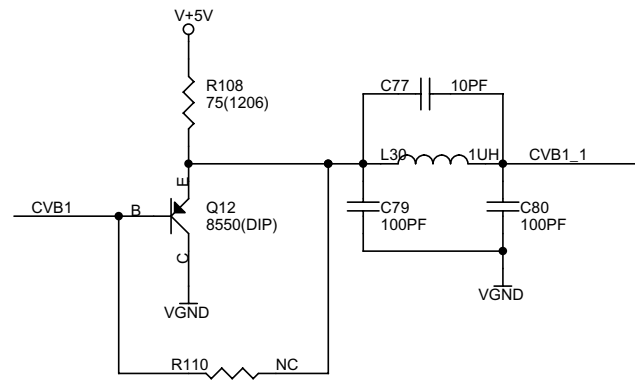
1/2 current config



1/2 current config

TV0	TV3	TV4	TV5
CVB	Y	Cb	Cr
CVB	Y (S-Video)	CVB	C (S-Video)
CVB	G	B	R

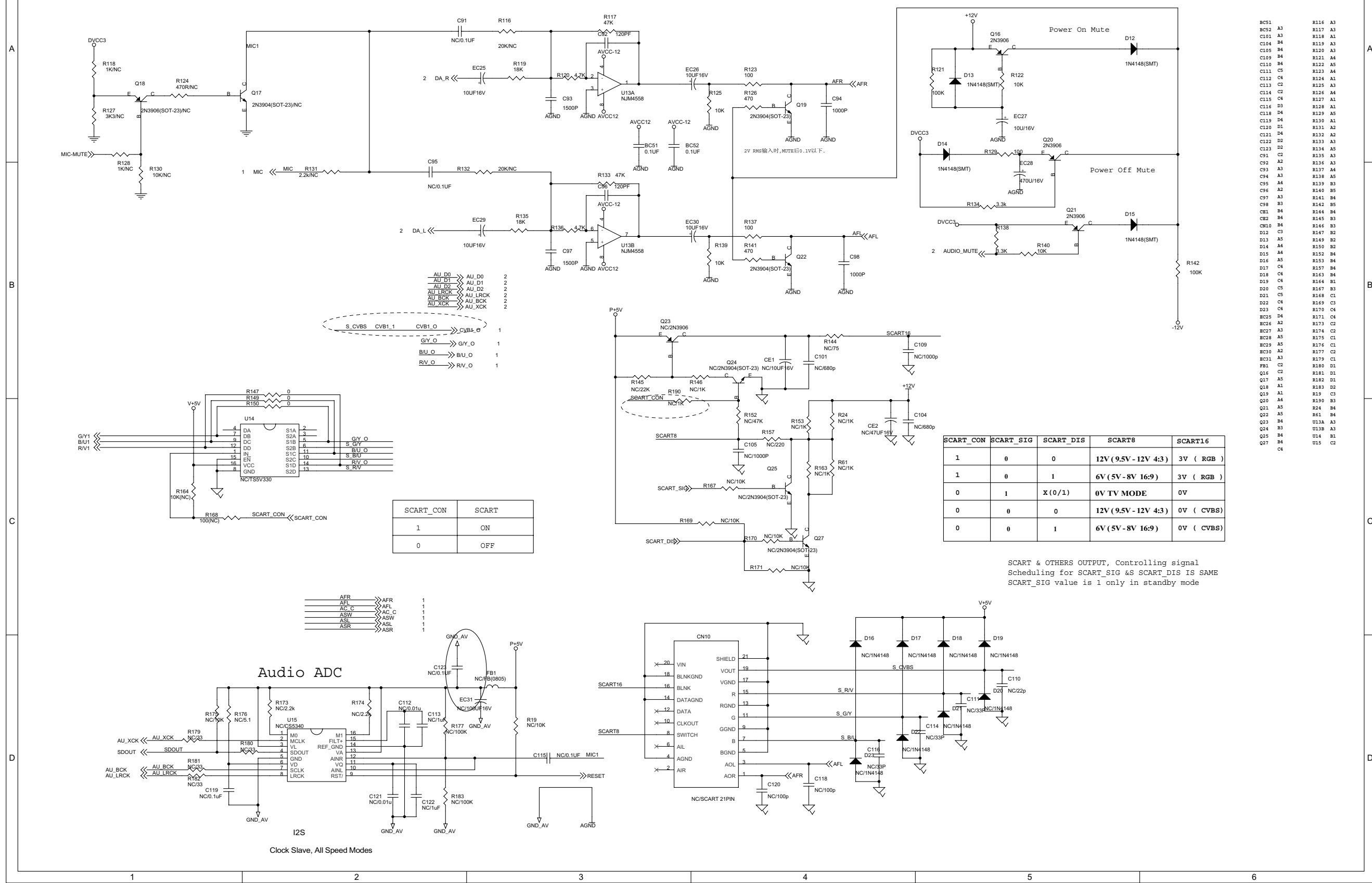
- C73 A3
- C74 A3
- C75 A3
- C76 A3
- C77 B1
- C78 B4
- C79 B1
- C80 B2
- C81 B3
- C82 B4
- C83 C1
- C84 C4
- C85 C1
- C86 C2
- C87 C4
- C88 C4
- L30 B1
- L31 B4
- L32 C1
- L33 C4
- Q12 B1
- Q13 B3
- Q14 C1
- Q15 C3
- R103 A1
- R104 A1
- R105 A1
- R106 A1
- R107 A3
- R108 B1
- R109 B3
- R110 B1
- R111 B3
- R112 C1
- R113 C3
- R114 C1
- R115 C3



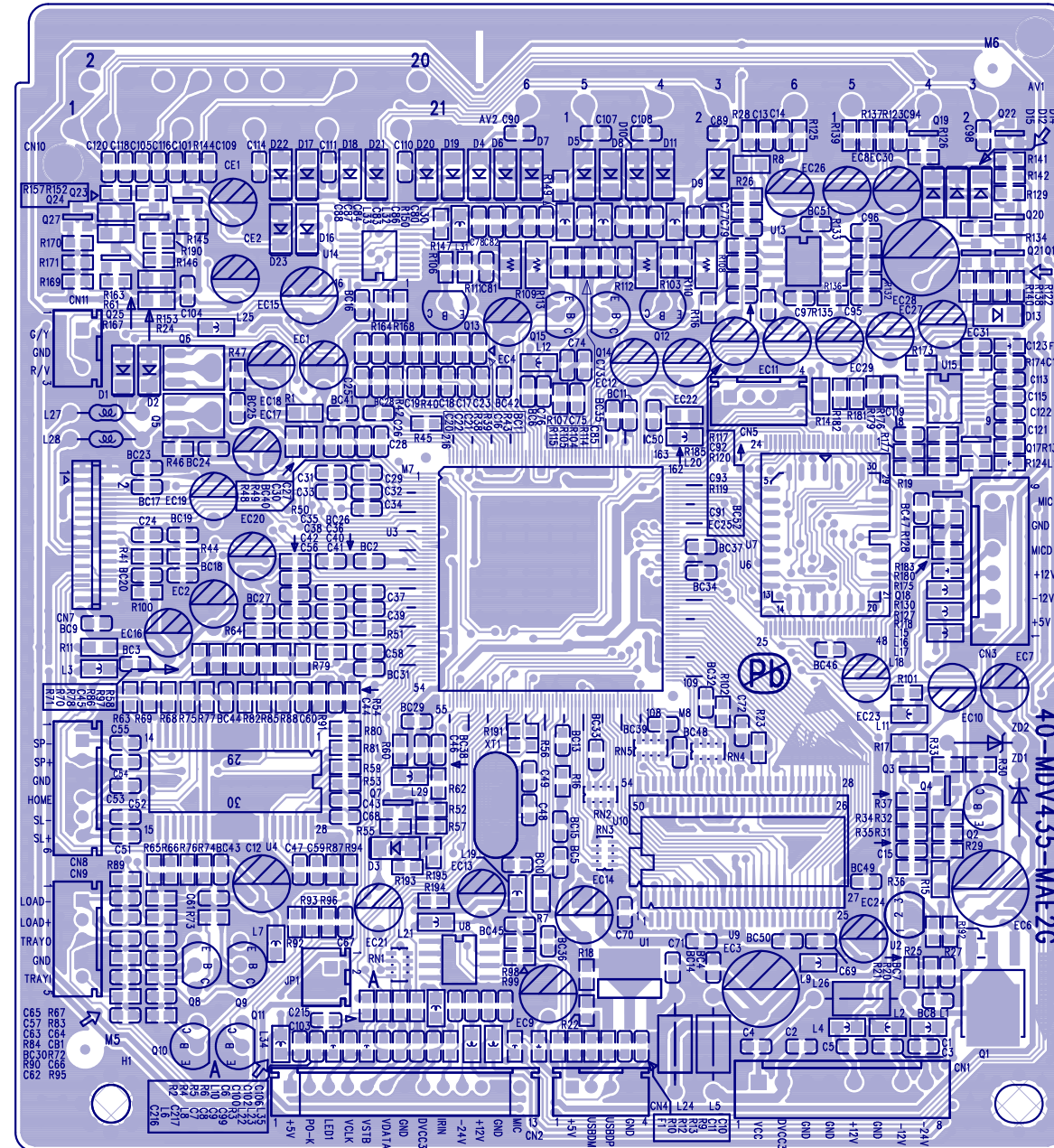
VIDEO DAC	R107	R110	R111	R114	R115	R104	R105	R106
Full Current	390	0	0	0	0	75	75	75
Half Current	680	NC	NC	NC	NC	150	150	150

Actual value:37.5R

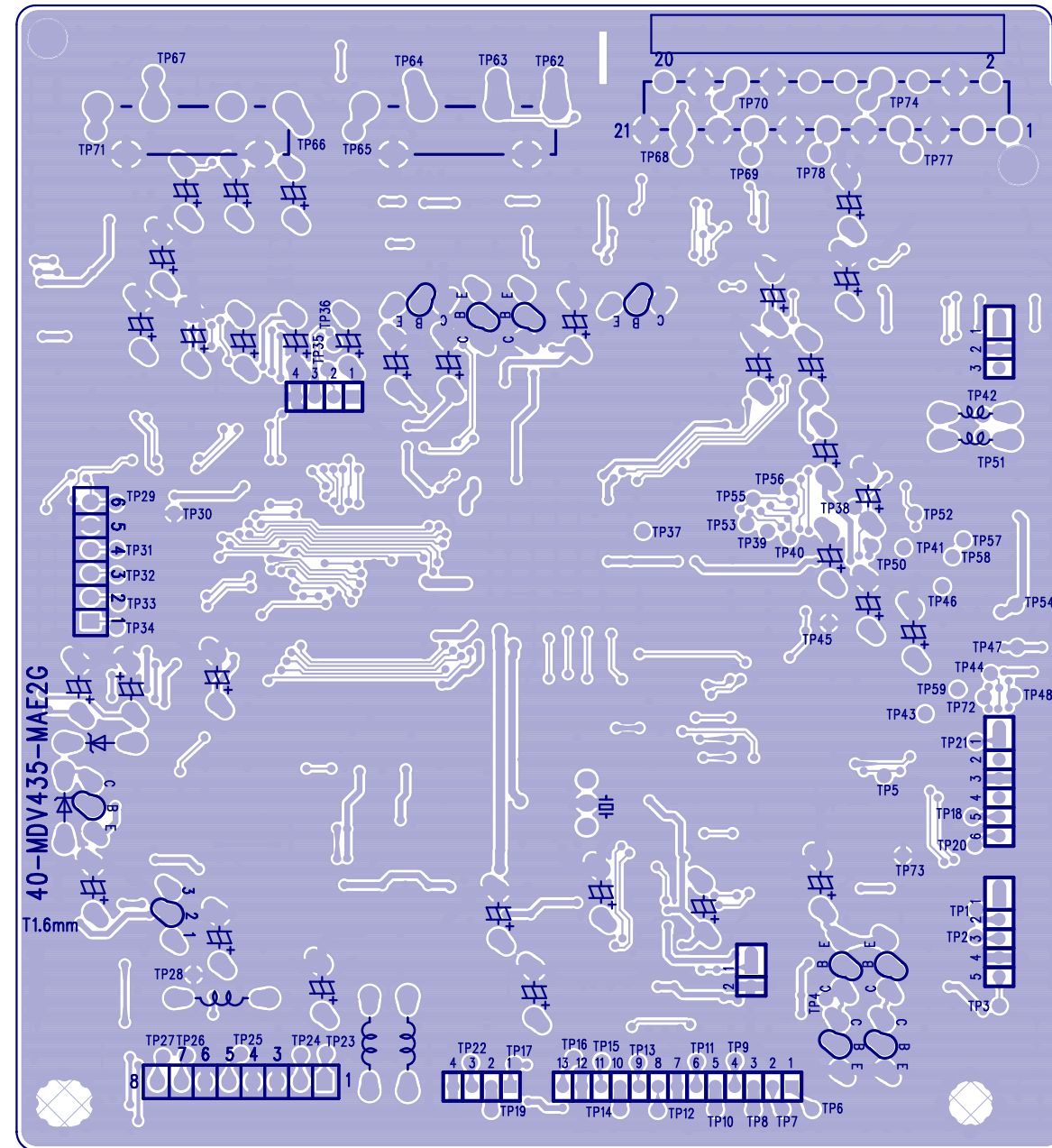
Main Board Electric Diagram: Audio & Filter for DVP3180K/93



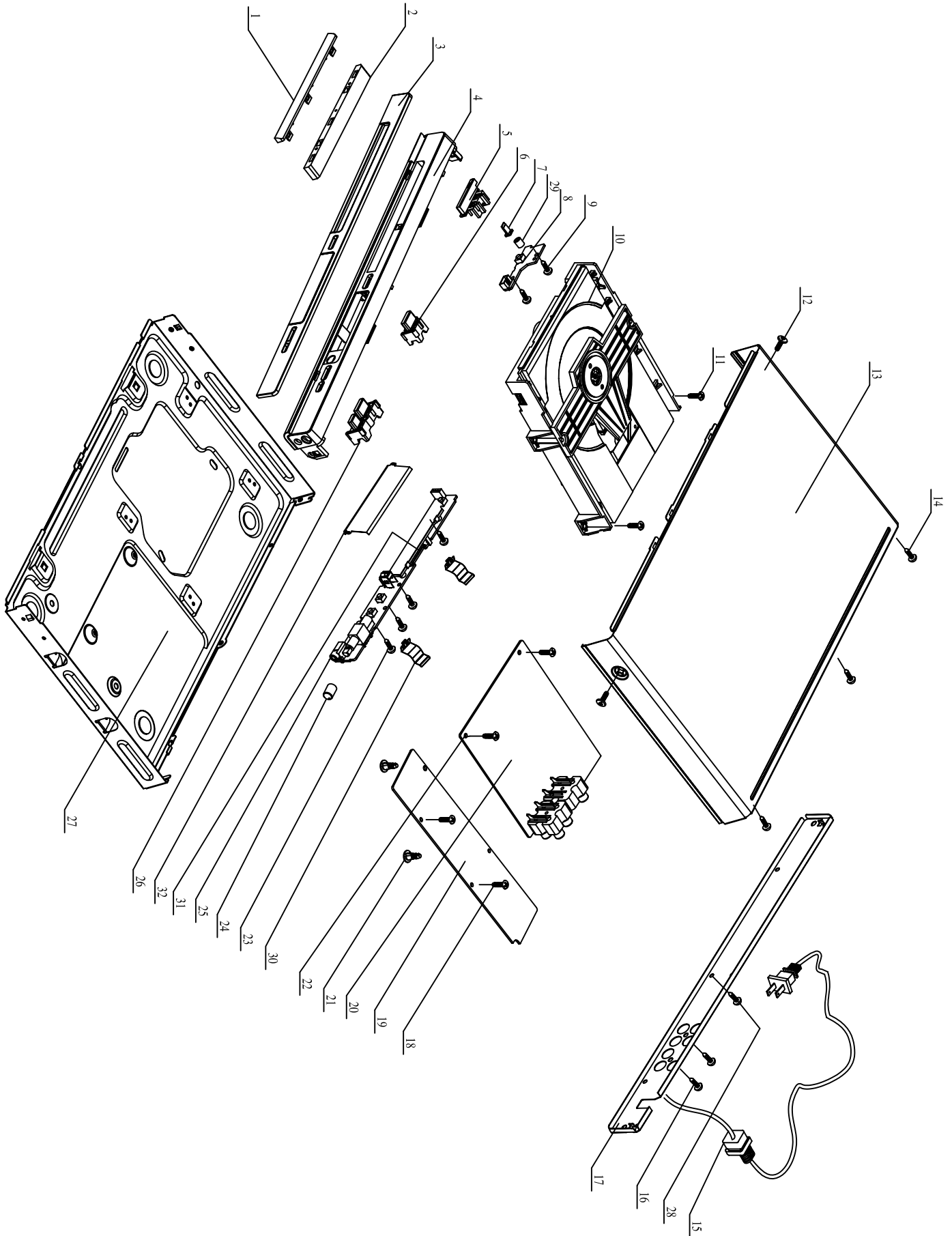
Main Board Print-Layout (Top Side) for DVP3180K/93



Main Board Print-Layout (Bottom Side) for DVP3180K/93



DVP3180K/93 Mechanical Exploded View



Remark: Ass'y1 is the assembled component for location1,2
Ass'y2 is the assembled component for location3,4,5,6,26

ENCASING & ACCESSORIES PARTS LIST**SCREW LIST**

No	12NC No.	Part Name	Q'ty	No	12NC No.	Part Name	Q'ty
Ass'y1	996510001116	Front Door Ass'y	1	9	/	S/T SCREW B 2.6 X 8 BF	2
Ass'y 2	996510001117	Front Panel Ass'y	1	11	/	MACHINE SCREW	2
7	/	Standby Light	1	12	/	M/C SCREW TRIANGLE W 3 X 6	2
8	996500034178	Ass'y-Switch Board	1	14	/	TRIANGLE M/C SCREW B 3 X 6	3
10	996500035377	Loader	1	16	/	S/T SCREW B 3 X 8 BF	2
				18	/	TRIANGLE M/C SCREW B 3 X 6	2
13	/	Top Cover	1	22	/	TRIANGLE M/C SCREW B 3 X 6	2
15	996510000418	Power Cord	1	23	/	S/T SCREW B 2.6 X 8 BF	4
17	/	Rear Plate	1	28	/	TRIANGLE M/C SCREW B 3 X 6	1
19	996500034189	Ass'y-Power Board	1				
20	996510001111	Ass'y-Main Board	1				
21	/	PCB Support Post	1				
24	/	Knob	1				
25	996500034179	Ass'y-Front Board	1				
27	/	Bottom Cover	1				
29	/	LED Supporter	1				
30	/	Grounding Plate	1				
31	/	VFD Bracket	1				
32	/	ESD Washer	1				

Accessory

RC	996510001112	REMOTE CONTROL	1
VC	996510001113	VIDEO CABLE 1500mm	1
AC	996510001114	AUDIO CABLE 1500mm WHITE/RED	1

Cable

CON2	996510000546	8PIN HS	1
CON302	996510000547	4P HS	1
CON301	996510001115	FFC CABLE	1
FFC	996510001108	24PIN FLAT WIRE	1

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

REVISION LIST

Version 1.0

* Initial release

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