

Service

DVP3000K/69/93

Service

DVP3005K/03/13/69/75/93

Service

DVP3005/00/02/04/05/78

DVP3010/00/02/04/05



Service Manual

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Version 1.0

**CLASS 1
LASER PRODUCT**



3139 785 30950

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, 108mH	
PbPr:	0.7Vpp ---- 75ohm	
Video output	1Vpp ----- 75ohm	
Video format		
Digital Compression	MPEG 2 for DVD,SVD MPEG 1 for VCD	
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)	96,112,128,256kbps & 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)		>90dB
Distortion/Noise (1kHz)		>80dB
MPEG MP3	MPEG Audio L3	
Audio L+R output:	1.0~2.0 Vpp into 10K ohm	
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 43 X 265mm	
Weight	Approximately 2.0 kg	
Power consumption		
Power supply	230V for 00/02/03/04/05/13/69/75/93 120~230V for /78	
Power consumption in standby mode	< 0.8W	
Power consumption	<10W	

Specifications subjects 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 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 1M .
 - 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.

Warnings

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 "lightning stroke" and a stripe-marked printing on the printed wiring board, indicate the primary side of the power supply.

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

2. Laser

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

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

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

Warnings, Notes

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 Instruction

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 remove the front door assembly first. (Figure 2)

If the trace 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 3)

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



Figure 1



Figure 2



Figure 3

Step3: Dismantling Loader, First, disconnect the 3 connectors aiming in the figure, and then remove the 2 screws at both sides of the loader, (Figure 4)

Step4: Dismantling Front Panel: disconnect the 2 connectors aiming in the figure then Release the snaps on the both sides of Front Panel and gently pull the Panel out from the set. (Figure5& 6)

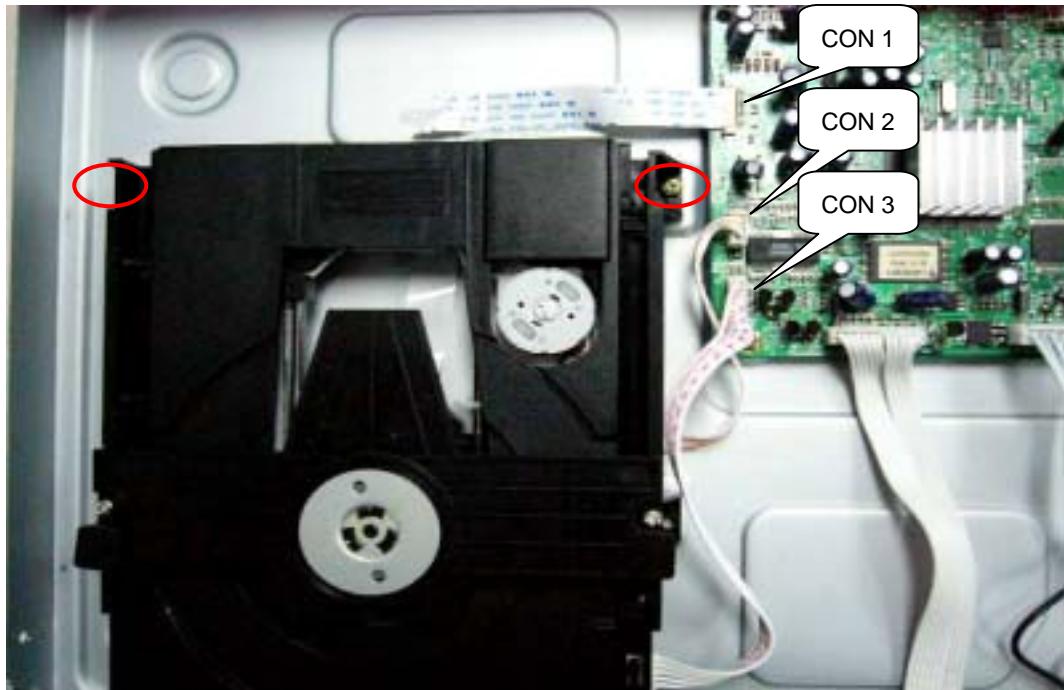


Figure4

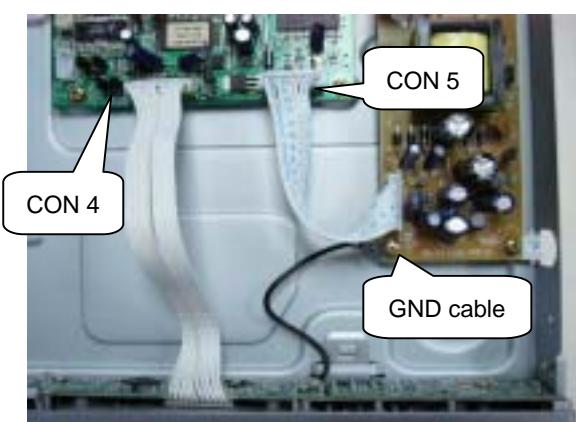


Figure 5

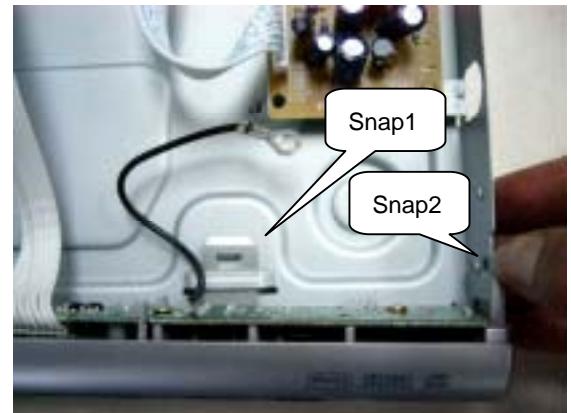


Figure 6

Mechanical and Dismantling Instructions

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

Step7: Remove the 3 screws on power board to dismantle the power board. (Figure8)

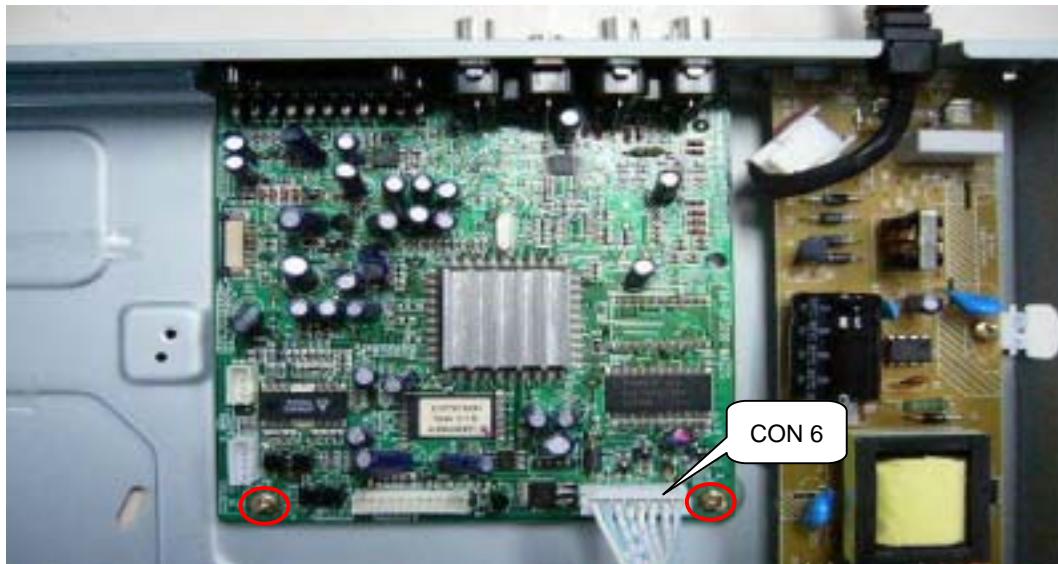


Figure 7

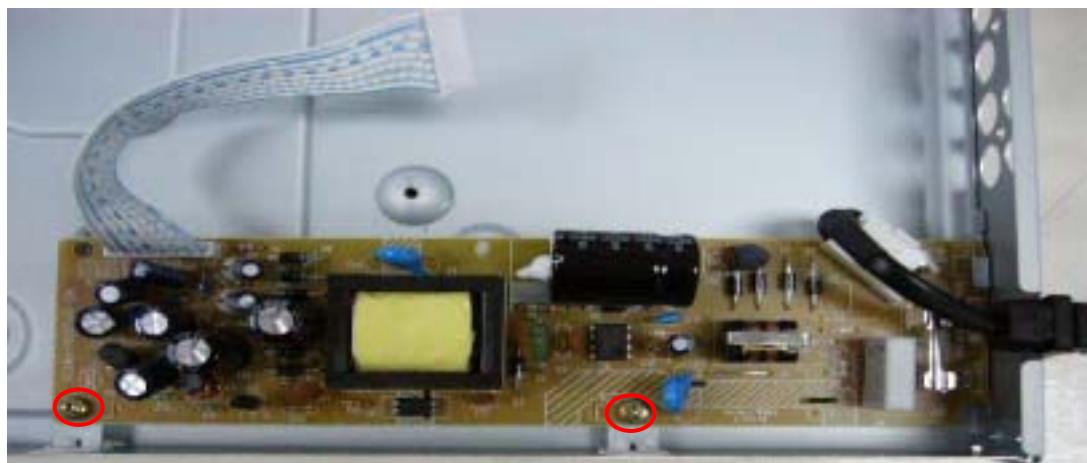


Figure 8

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

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** (*For all DVP3XXX/xx model*)

File Name: **DVP3005_78.BIN** (for DVP3005/78)
DVP305K_78.BIN (for DVP305K/78)
DVP3010_00.BIN (for DVP3010/00/05)
DVP3010_02.BIN (for DVP3010/02/04)
.....

Other version's File Name is un-know at present, should be noticed later.

Note: It is required capital letter for the Label name & the File 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 TV screen:

Upgrade File DETECTED

Upgrade?

Press Play TO START

- 3) Press <OK> button to confirm, then screen will display :
 Files coping...
 UPGRADING...
- 3) The upgraded disc will automatically out when files coping complete, then take out the disc.
- 4) About 1 minute later, the trace will automatically close when upgrading complete.

C. Read out the software versions to confirm upgrading

- 1) Power up the set and press <system menu> button on the remote control.

- 2) Press <1><3><7><9> button.

The software version and other information are display on the TV screen as follows:

Version	XX.XX.XX.XX (Main version)
SUB-VER	XX.XX.XX.XX (software version of application software)

8032	XX.XX.XX.XX
------	-------------

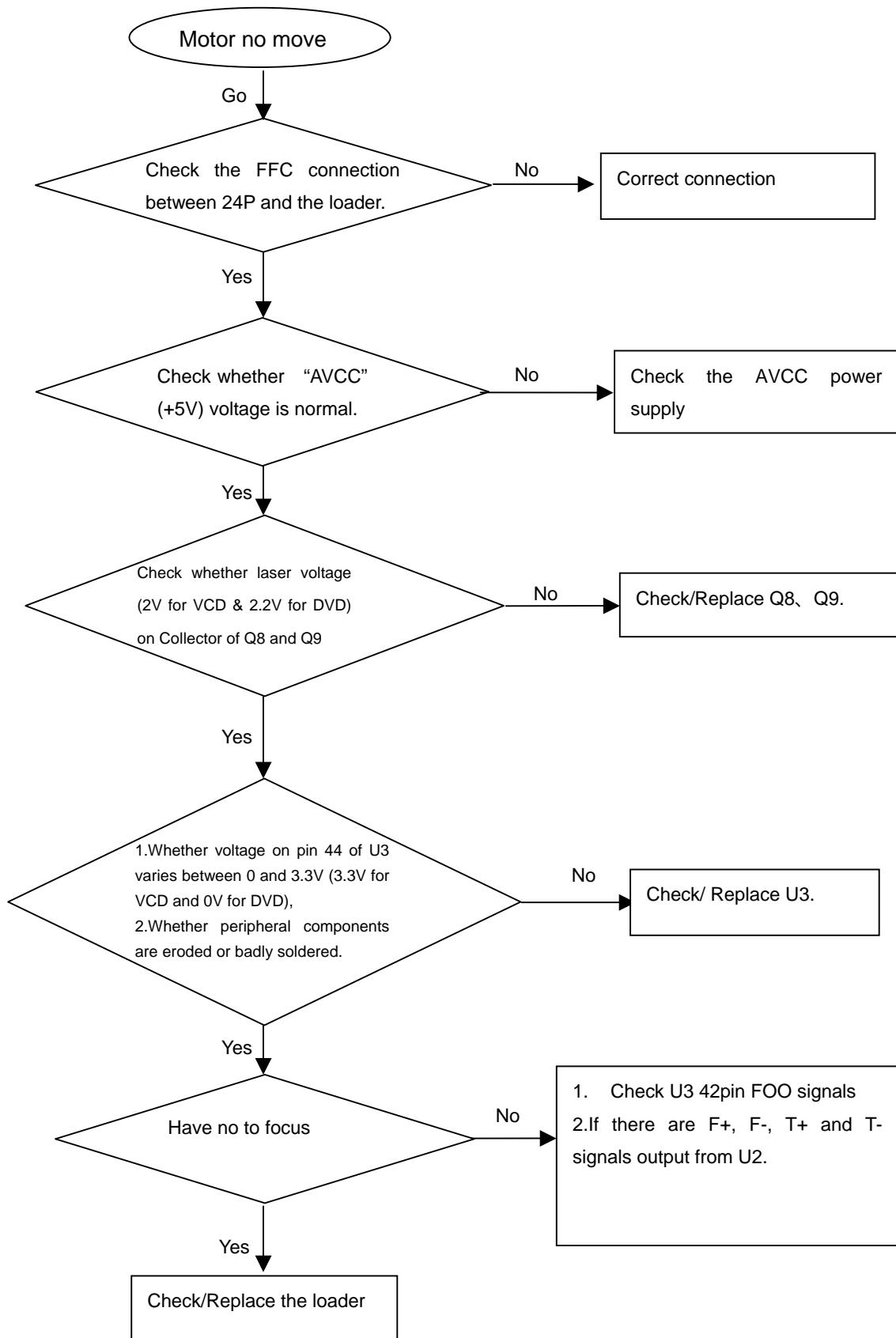
Servo	XX.XX.XX.XX (software version of Servo)
-------	---

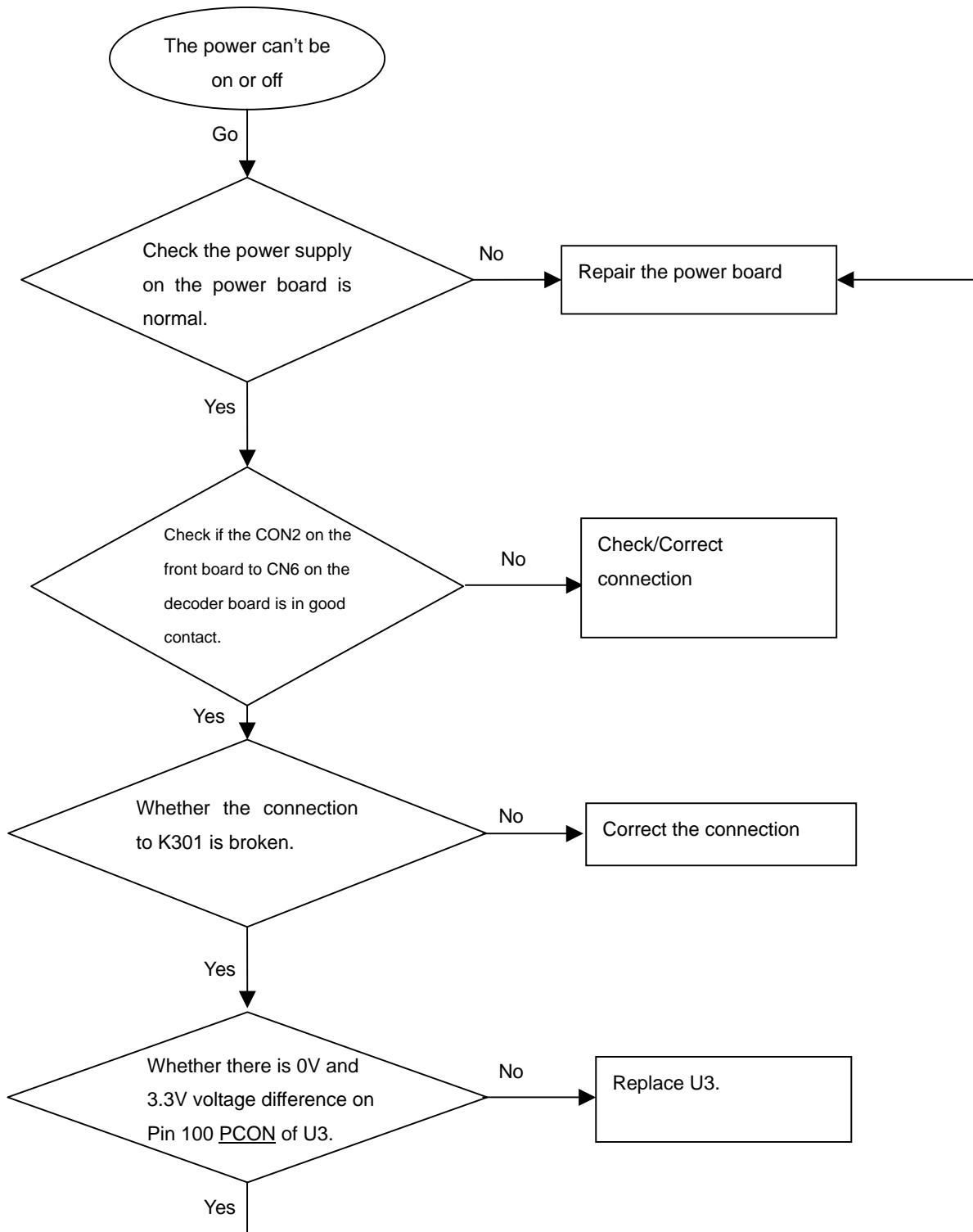
RISC	XX.XX.XX.XX
------	-------------

DSP	XX.XX.XX.XX
-----	-------------

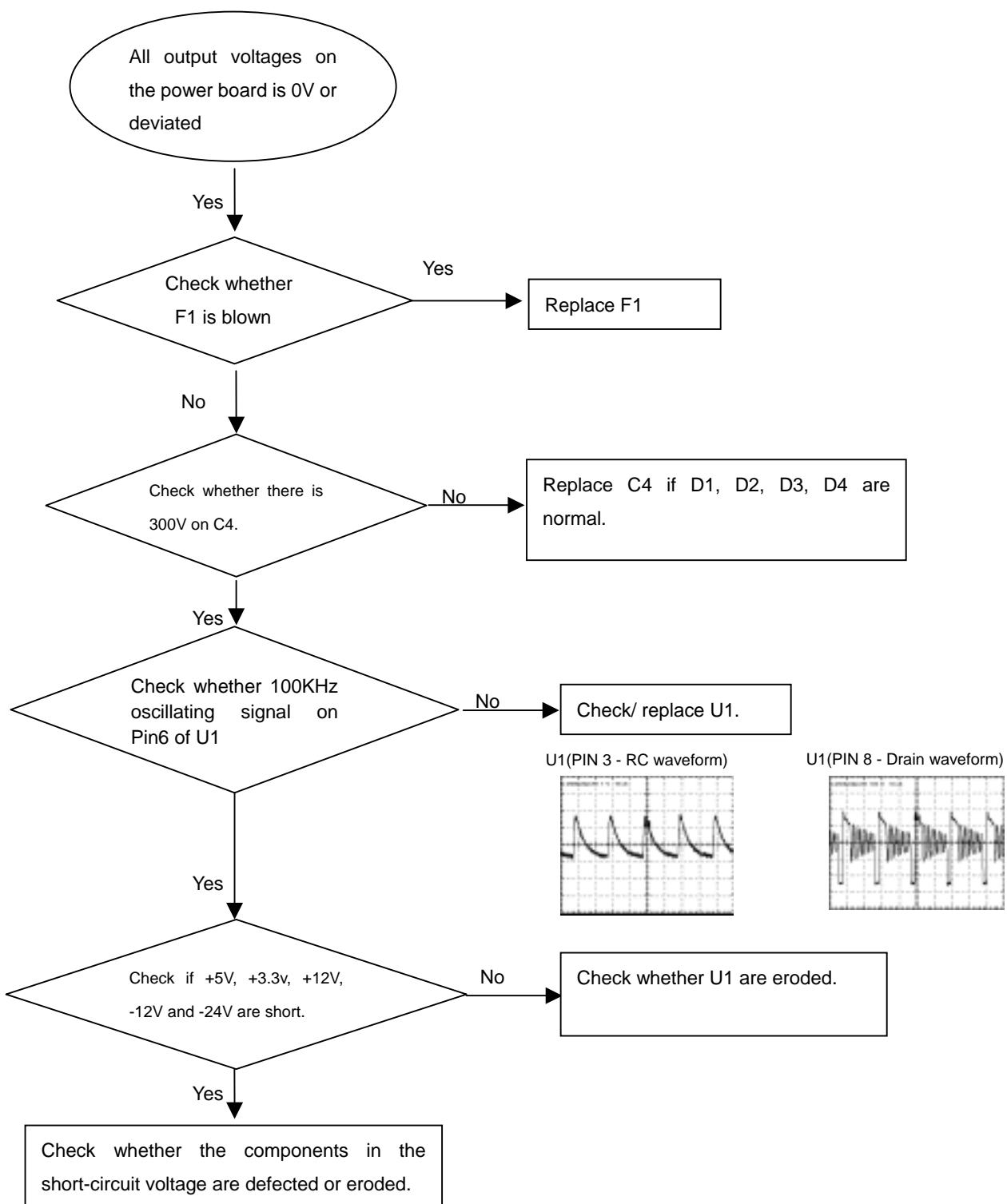
Region Code	X
-------------	---

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

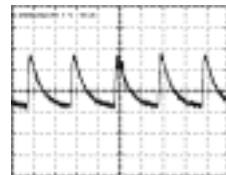
Spindle motor does not move

The power can not be on or off

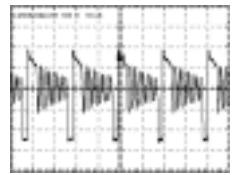
All output voltages on the power board is 0V or deviated.



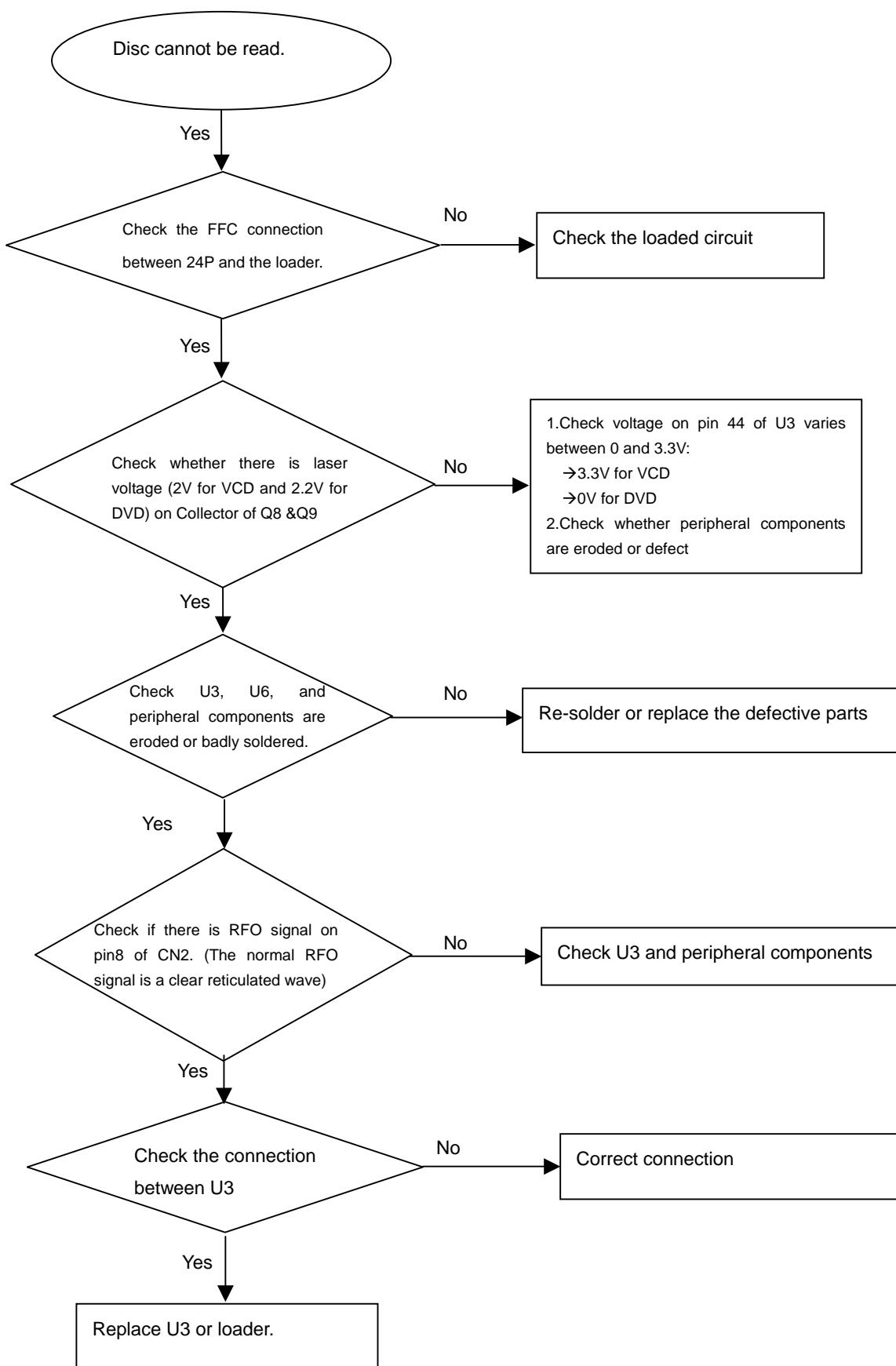
U1(PIN 3 - RC waveform)

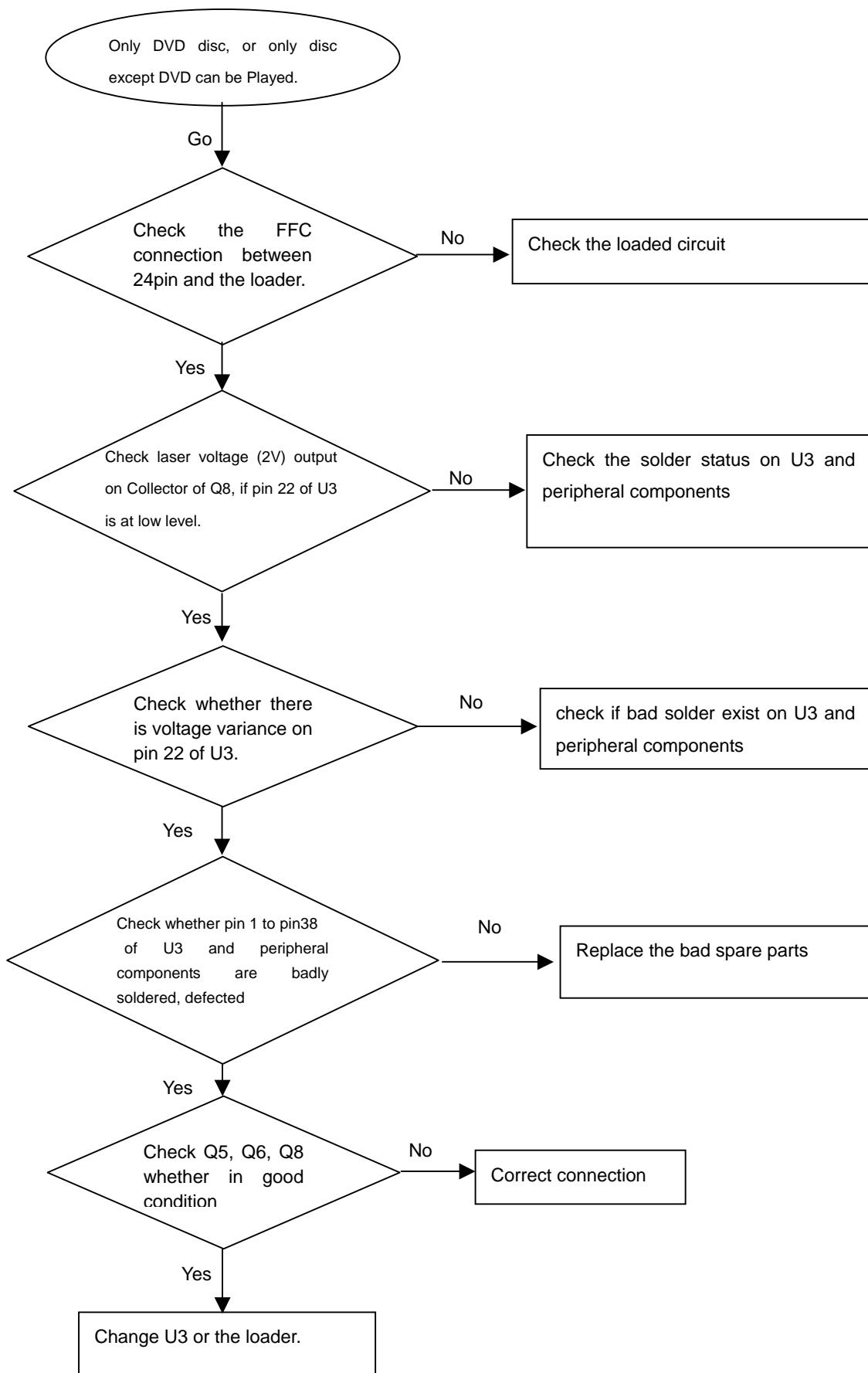


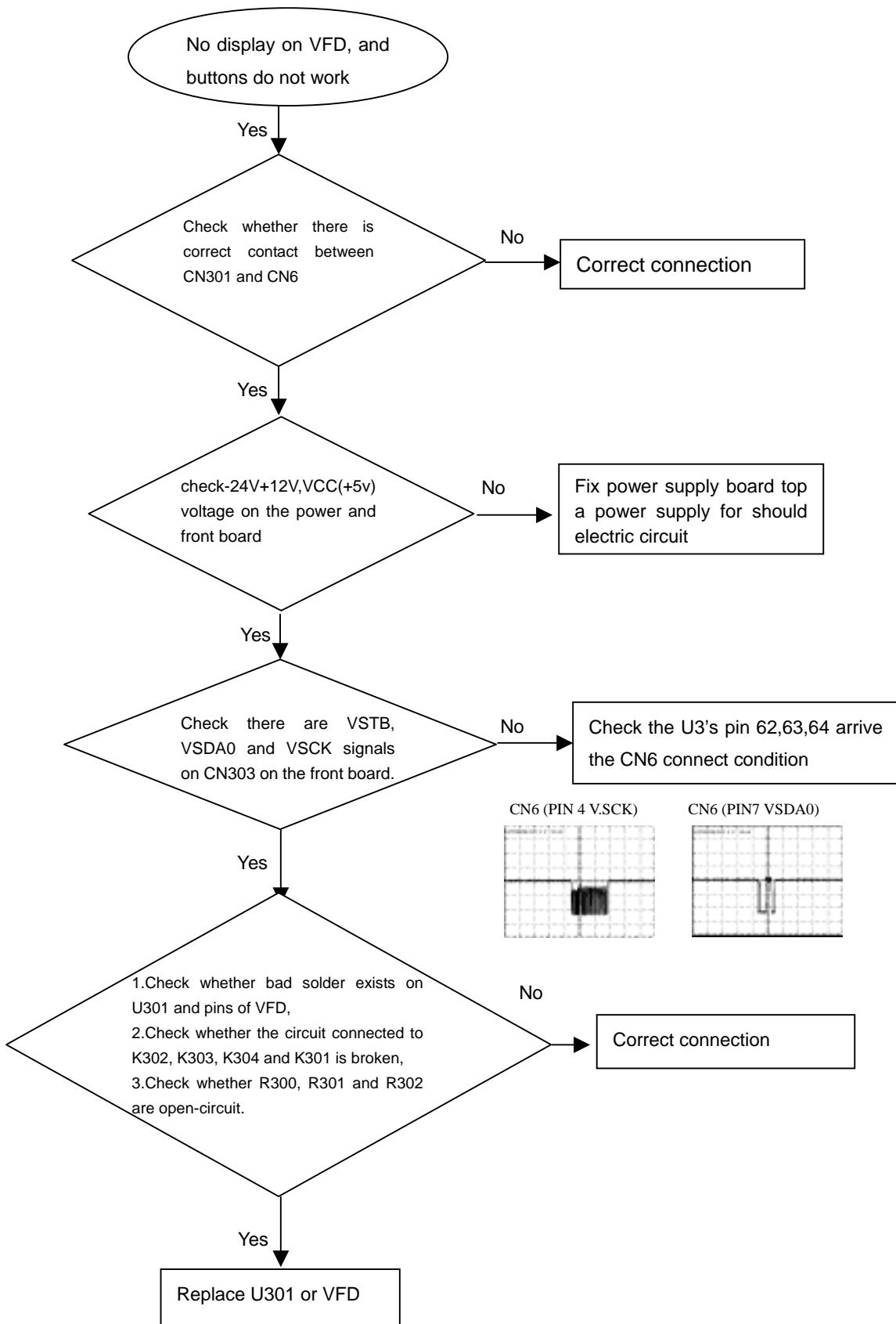
U1(PIN 8 - Drain waveform)

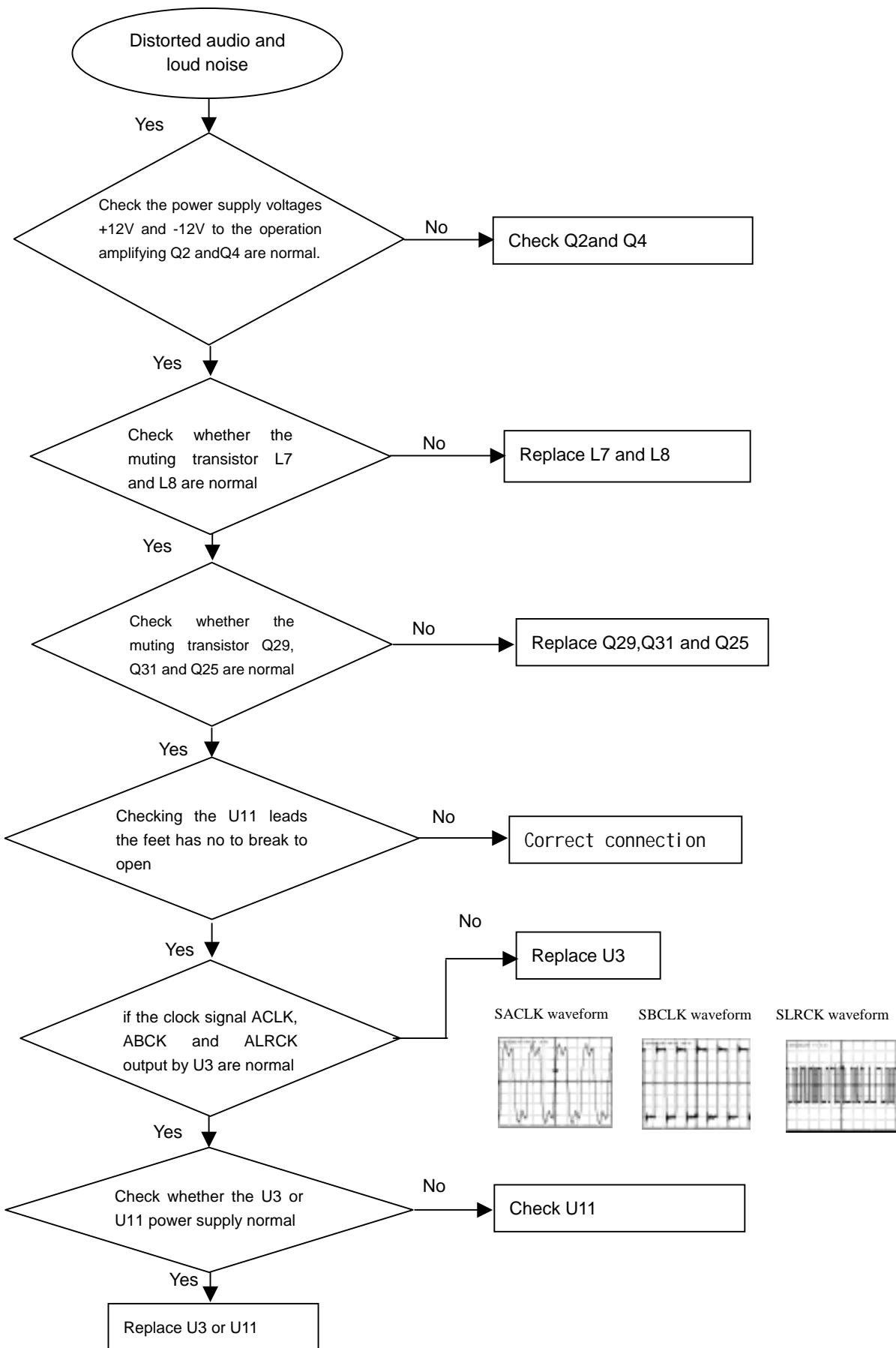


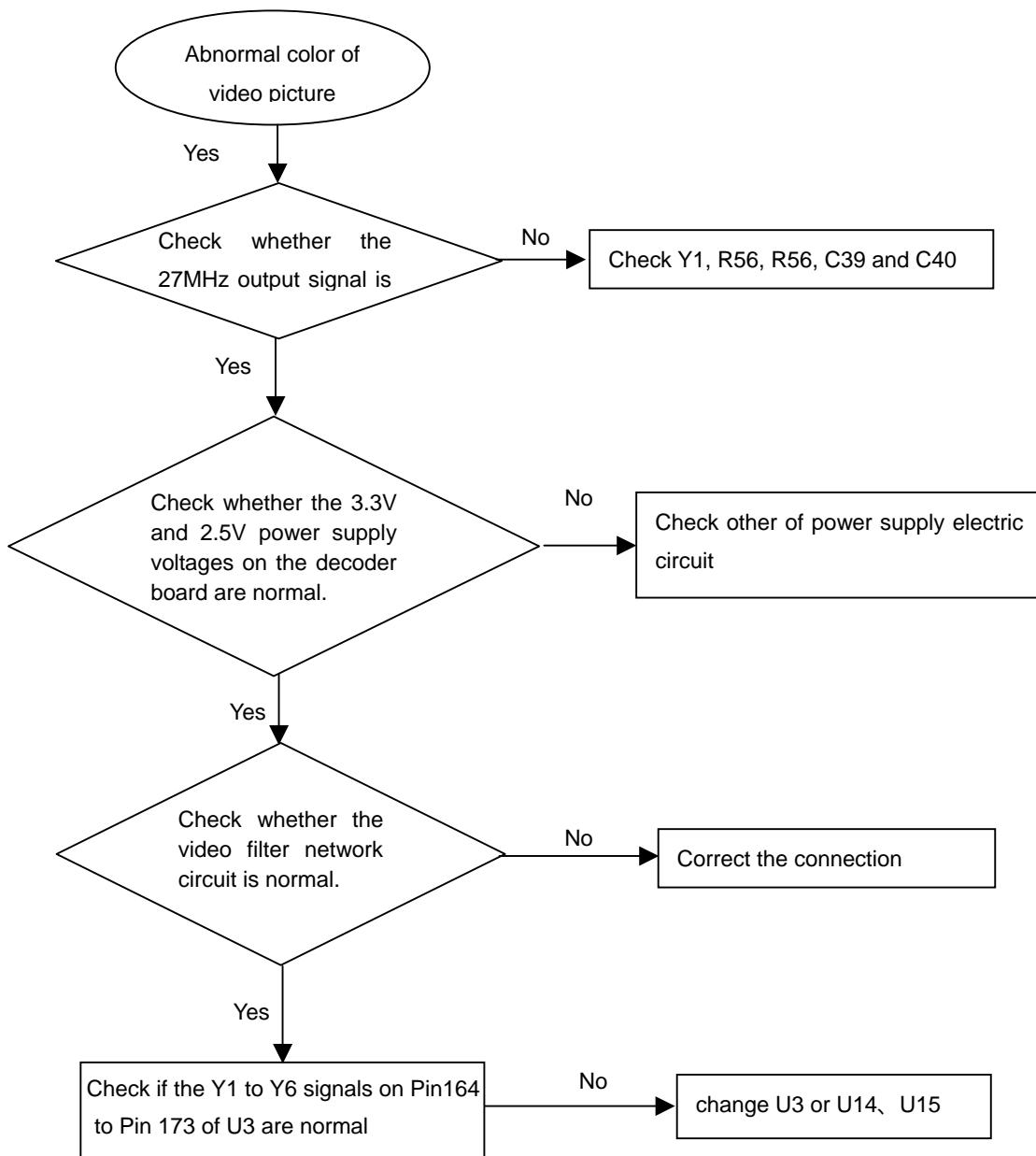
Disc cannot be read.



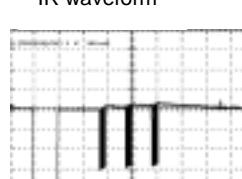
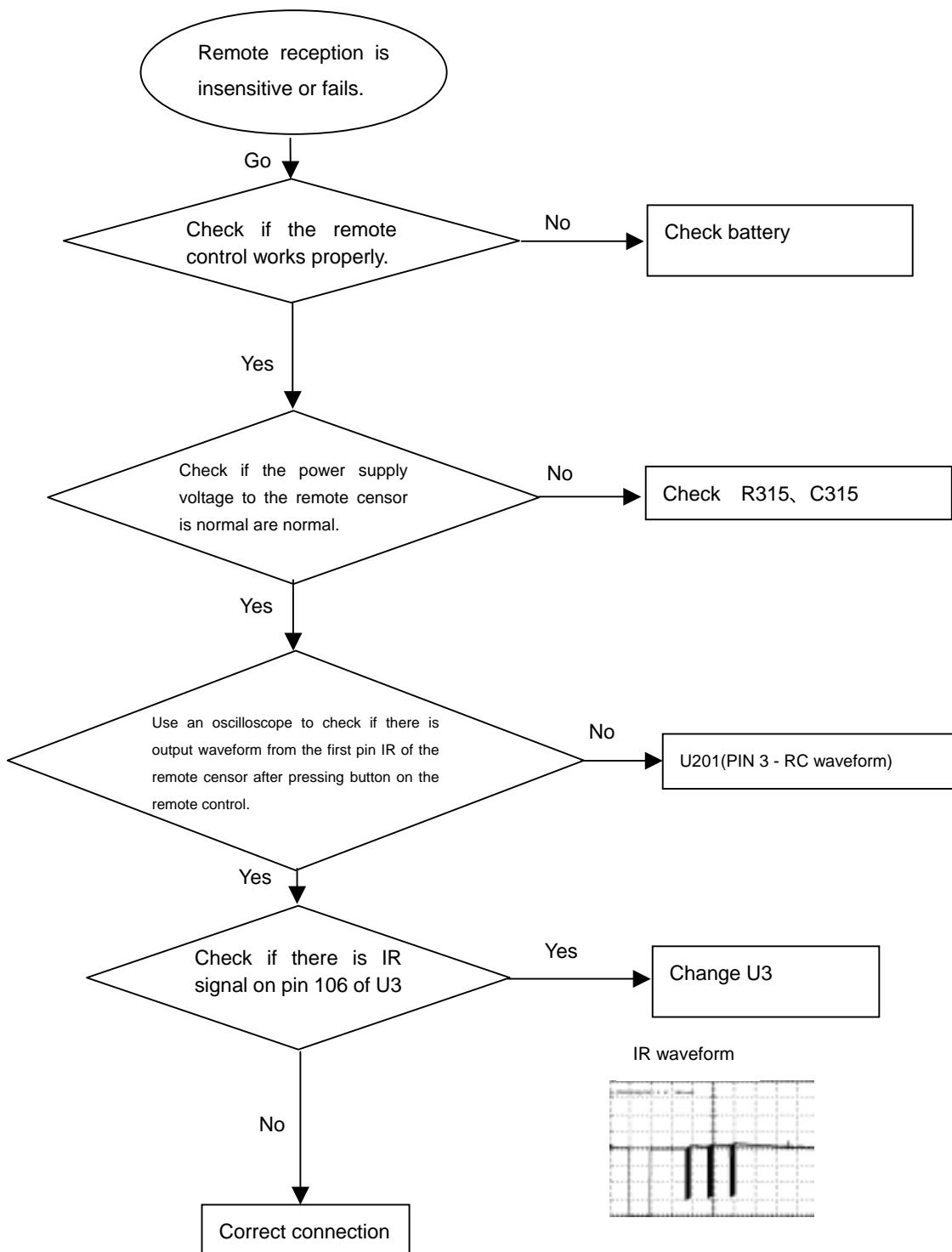
Only DVD disc or only disc except DVD can be played


No display on VFD, and buttons do not work


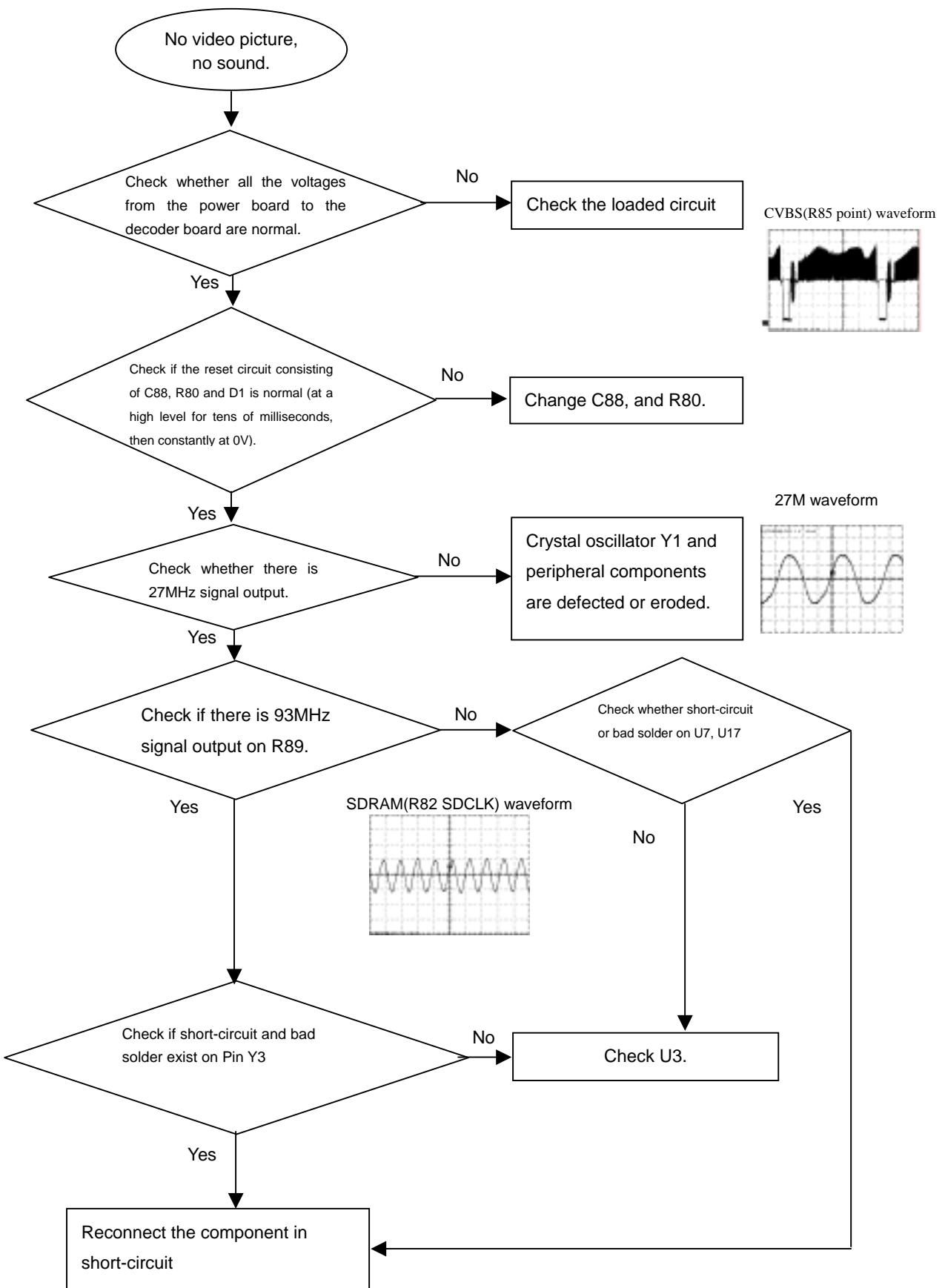
Distorted audio and loud noise

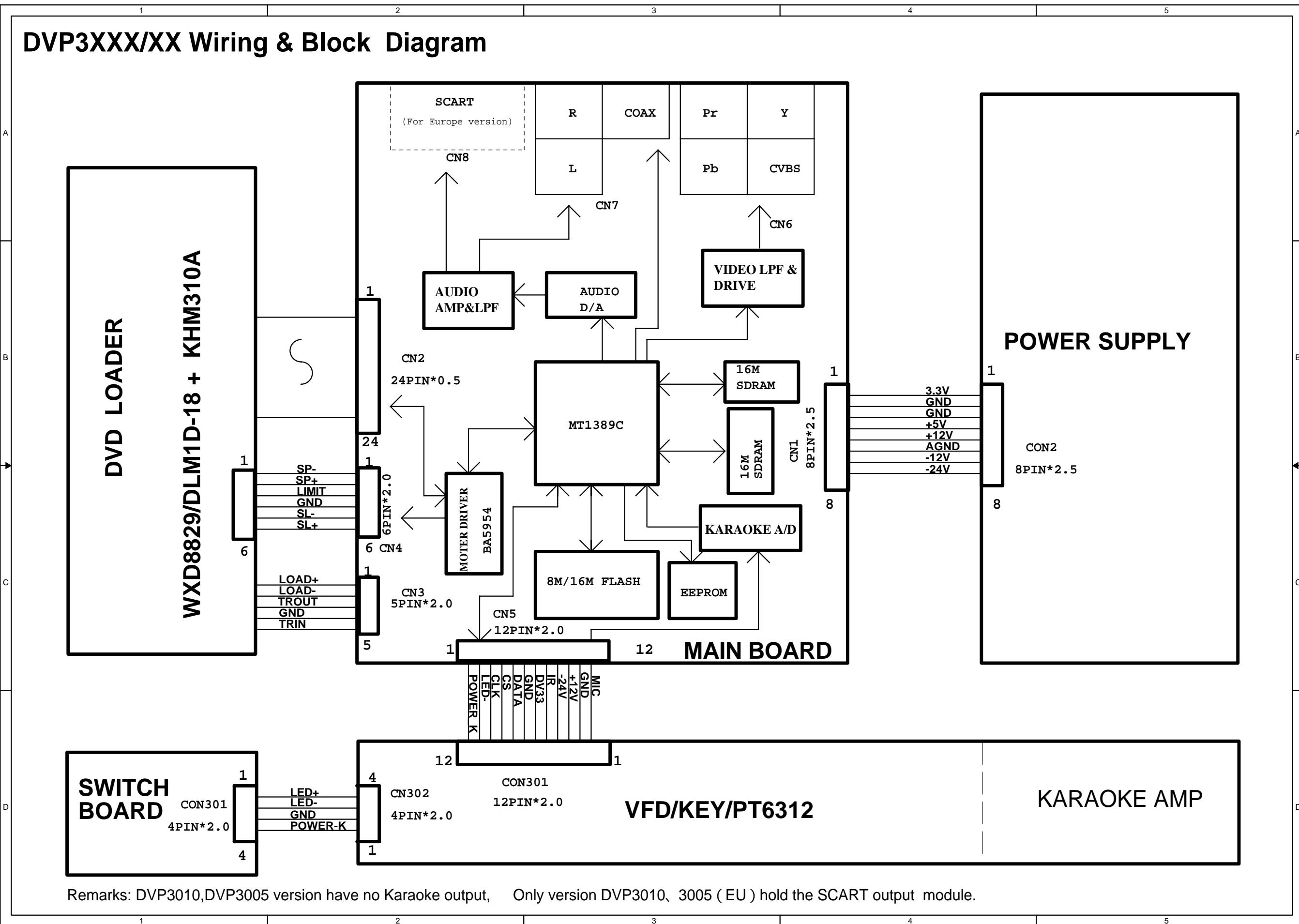
Abnormal color of video picture

Remote reception is insensitive or fails.



No video picture, no sound.



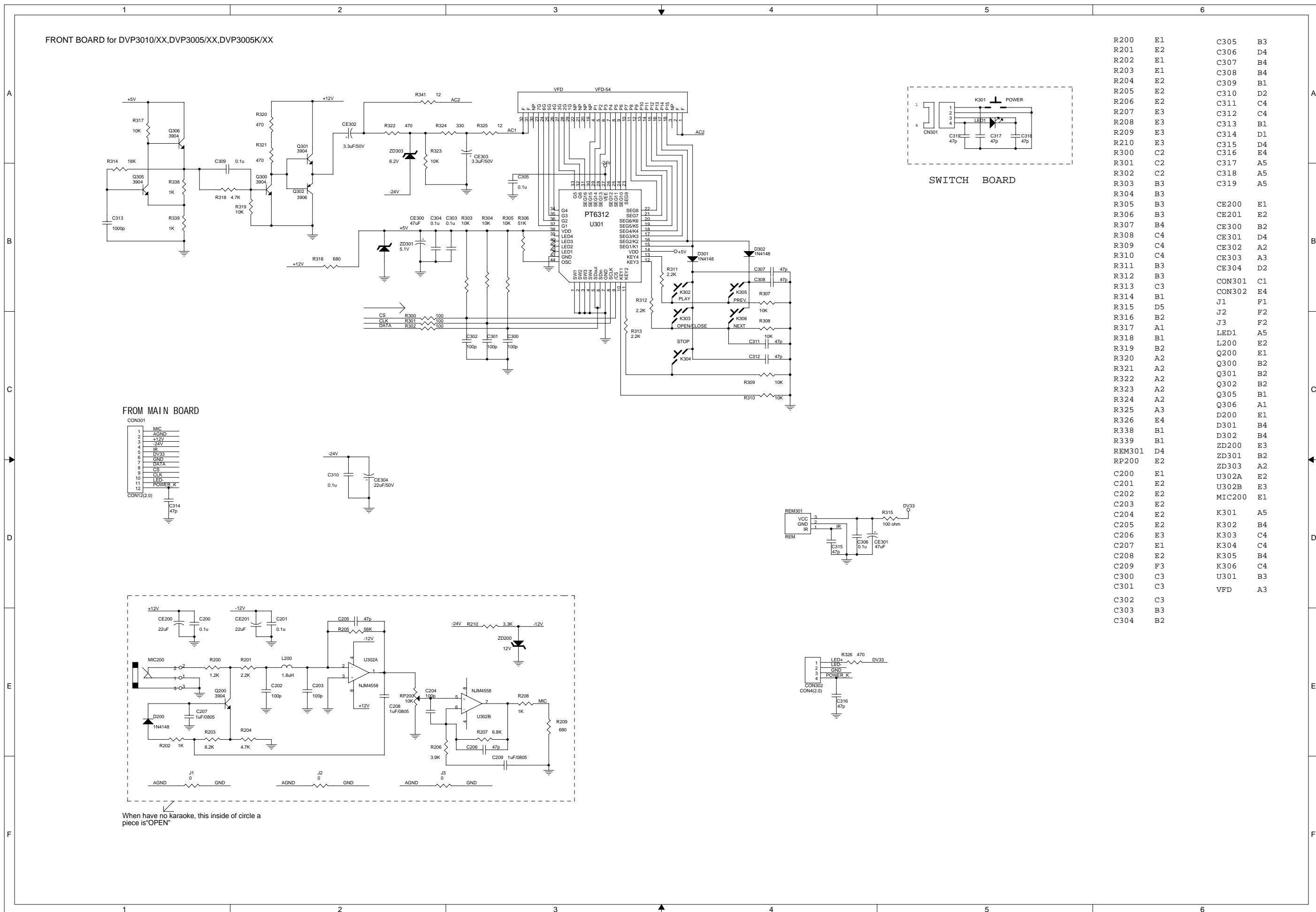


FRONT BOARD

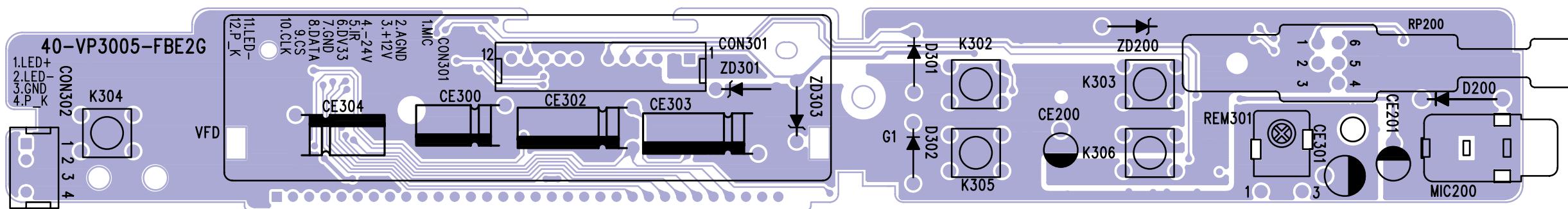
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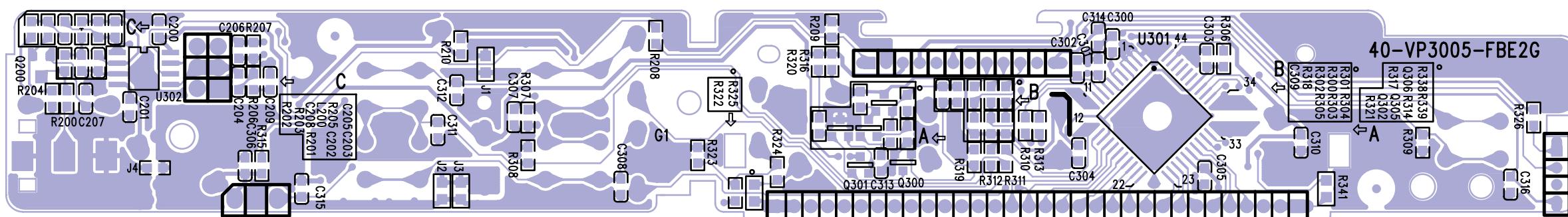
Service Engineer Remarks:



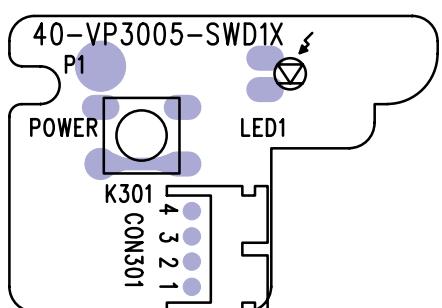
Front Board Top Side



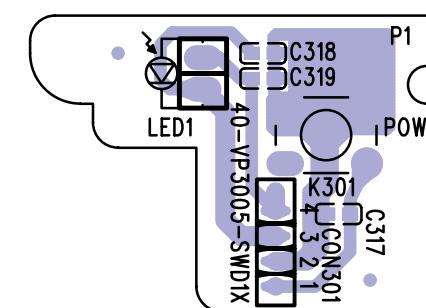
Front Board Bottom Side



Switch Board Top Side



Switch Board Bottom Side



ELECTRONIC PARTS FOR FRONT BOARD**CAPACITOR**

C11	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80/-20% F
C13	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80/-20% F
C14	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80/-20% F
C16	26-EBP330-JCX	CAP. CER 33PF 50V +/-5% CH
C17	26-EBP330-JCX	CAP. CER 33PF 50V +/-5% CH
C2	25-HEM470-M1X	CAP.ELEC 47UF 35V +/-20%
C22	25-HEM470-M1X	CAP.ELEC 47UF 35V +/-20%
C23	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80/-20% F
C24	26-EBP101-JCX	CAP. CER 100PF 50V +/-5% CH
C25	26-EBP104-ZFX	CAP. CER 0.1UF 50V +80%/-20%
C27	25-HCK100-M1X	CAP. ELEC 10 UF 16V +/-20%
C28	25-HCK100-M1X	CAP. ELEC 10 UF 16V +/-20%
C29	26-EBP101-JCX	CAP. CER 100PF 50V +/-5% CH
C3	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80/-20% F
C38	26-EBP104-ZFX	CAP. CER 0.1UF 50V +80%/-20%
C4	26-EBP330-JCX	CAP. CER 33PF 50V +/-5% CH
C7	26-EBP220-JCX	CAP. CER 22PF 50V +/-5% CH
C8	26-EBP220-JCX	CAP. CER 22PF 50V +/-5% CH
C9	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80/-20% F

RESISTOR

R6	18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%
R8	18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%
R9	18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%

DIODE

D10	10-1N4148-ABX	DIODE 1N4148 (SWITCHING)
D11	10-1N4148-ABX	DIODE 1N4148 (SWITCHING)
D12	10-79C5V6-DBX	DIODE ZENER 5V6 1/2W 5%
D2	10-1N4001-EBX	DIODE 1N4001 (RECTIFIER)
D3	10-1N4148-ABX	DIODE 1N4148 (SWITCHING)
D4	10-1N4148-ABX	DIODE 1N4148 (SWITCHING)

TRANSISTORS

Q2	11-DG9014-CBX	TRANSISTOR 3DG9014-C (NPN)
Q3	11-DG9014-CBX	TRANSISTOR 3DG9014-C (NPN)
Q5	11-DG9014-CBX	TRANSISTOR 3DG9014-C (NPN)
Q6	11-DG9014-CBX	TRANSISTOR 3DG9014-C (NPN)

RESISTOR

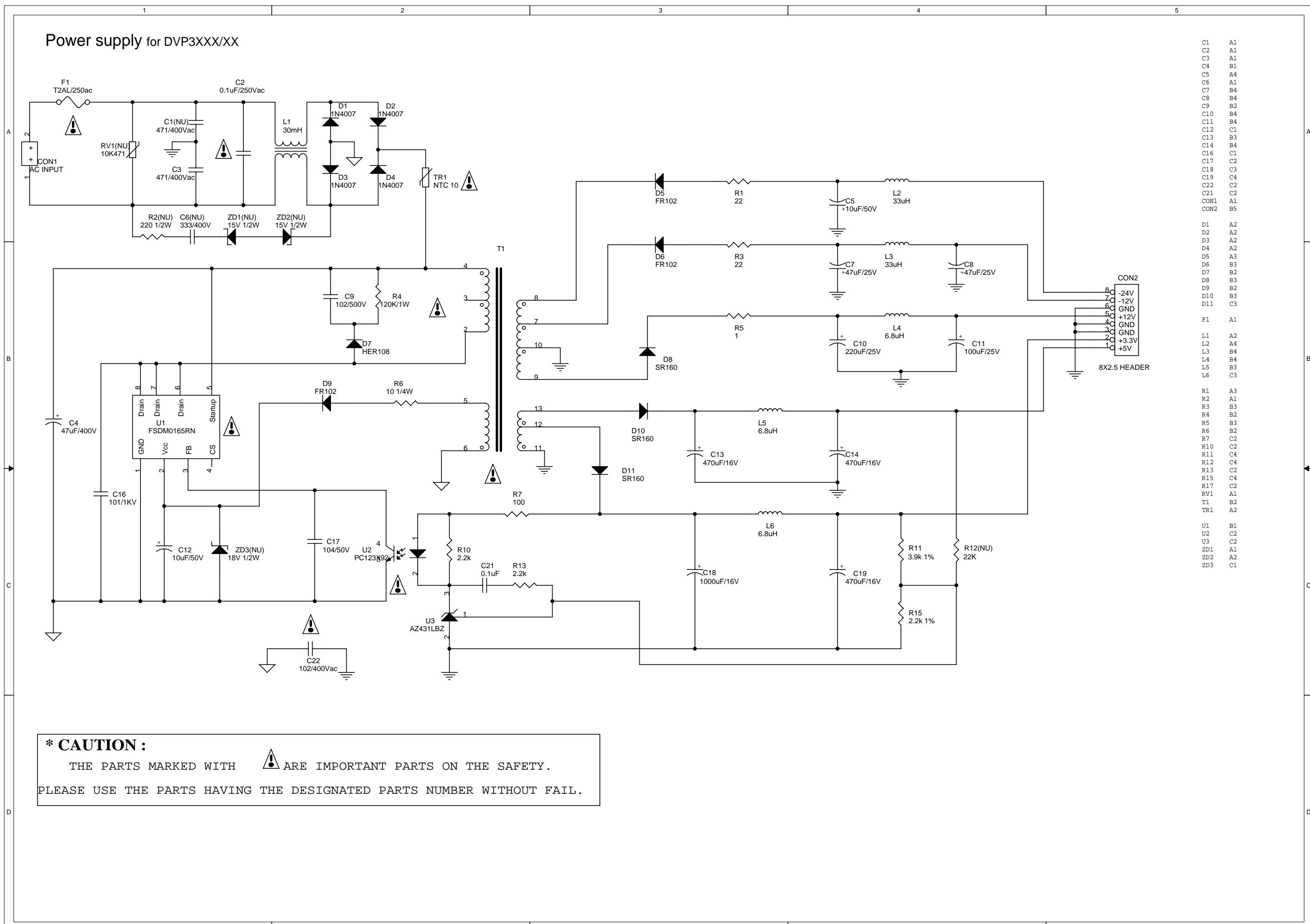
R1	18-CB0330-JNX	RES. C.F. 33 OHM 1/6W +/-5%
R10	18-CB0220-JNX	RES. C.F. 22 OHM 1/6W +/-5%
R13	18-CB0274-JNX	RES. C.F. 270K OHM 1/6W +/-5%
R15	18-CB0472-JNX	RES. C.F. 4.7k OHM 1/6W +/-5%
R2	18-CB0330-JNX	RES. C.F. 33 OHM 1/6W +/-5%
R22	18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%
R23	18-CB0332-JNX	RES. C.F. 3.3k OHM 1/6W +/-5%
R24	18-CB0332-JNX	RES. C.F. 3.3k OHM 1/6W +/-5%
R25	18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%
R28	18-CB0109-JNX	RES. C.F. 1 OHM 1/6W +/-5%
R29	18-CB0109-JNX	RES. C.F. 1 OHM 1/6W +/-5%
R3	18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%
R30	18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%
R31	18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%
R32	18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%
R34	18-CB0513-JNX	RES. C.F. 51k OHM 1/6W +/-5%
R35	18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%
R36	18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%
R37	18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%
R38	18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%
R39	18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%
R4	18-CE0220-JNX	RES. C.F. 22 OHM 1/2W +/-5%
R40	18-CB0330-JNX	RES. C.F. 33 OHM 1/6W +/-5%
R5	18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%

NOTE:ONLY THE PARTS MENTIONED IN THIS LIST ARE NORMAL SERVICES SPARE PARTS

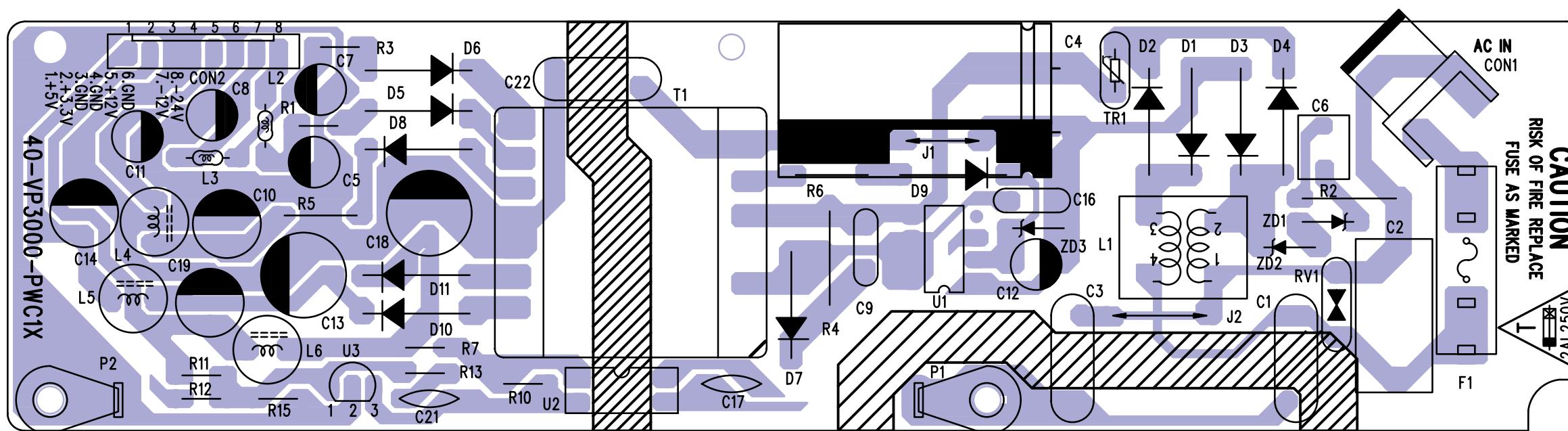
POWER BOARD

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Power Board Top Side



ELECTRICAL PARTS FOR POWER BOARD**CAPACITORS**

C300	28-AB0101-JCX	SMD. CAP 100 pF 50VDC +/-5%
C301	28-AB0101-JCX	SMD. CAP 100 pF 50VDC +/-5%
C302	28-AB0101-JCX	SMD. CAP 100 pF 50VDC +/-5%
C303	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C304	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C305	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C306	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C307	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C308	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C309	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C310	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C311	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C312	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C313	28-AB0102-KBX	SMD. CAP 1000 pF 50V +/-10% B
C314	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C315	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C316	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
CE300	25-HCB470-M1X	CAP. ELEC 47 UF 16V +/-20%(SM)
CE301	25-HCB470-M1X	CAP. ELEC 47 UF 16V +/-20%(SM)
CE302	25-BFB339-M1X	CAP. ELEC 3.3 UF 50V +/-20%
CE303	25-BFB339-M1X	CAP. ELEC 3.3 UF 50V +/-20%
CE304	25-BFB220-M1X	CAP. ELEC 22 UF 50V +/-20%

RESISTANCE

R300	19-AB0101-JTF	RES SMD 100 OHM 1/10W 0603
R301	19-AB0101-JTF	RES SMD 100 OHM 1/10W 0603
R302	19-AB0101-JTF	RES SMD 100 OHM 1/10W 0603
R303	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R304	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R305	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R306	19-AB0513-JTF	SMD. RES 51k OHM 1/10W +/-5%
R307	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R308	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R309	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R310	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R311	19-AB0222-JTF	RES SMD 2.2K OHM 1/10W 0603
R312	19-AB0222-JTF	RES SMD 2.2K OHM 1/10W 0603
R313	19-AB0222-JTF	RES SMD 2.2K OHM 1/10W 0603
R314	19-AB0183-JTF	SMD. RES 18K OHM 1/10W +/-5% 0603
R315	19-AB0101-JTF	RES SMD 100 OHM 1/10W 0603
R316	19-AB0681-JTF	SMD. RES. 680 OHM 1/10W 0603
R317	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R318	19-AB0472-JTF	RES SMD 4.7K OHM 1/10W 0603

RESISTANCE

R319	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R320	19-AB0471-JTF	SMD. RES 470 OHM 1/10W +/-5%
R321	19-AB0471-JTF	SMD. RES 470 OHM 1/10W +/-5%
R322	19-AB0471-JTF	SMD. RES 470 OHM 1/10W +/-5%
R323	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R324	19-AB0331-JTF	RES. SMD 330 OHM 1/10W 0603
R325	19-BC0120-JTF	SMD. RES 12 OHM 1/8W +/-5%
R326	19-AB0471-JTF	SMD. RES 470 OHM 1/10W +/-5%
R338	19-AB0102-JTF	RES SMD 1K OHM 1/10W 0603
R339	19-AB0102-JTF	RES SMD 1K OHM 1/10W 0603
R341	19-BC0120-JTF	SMD. RES 12 OHM 1/8W +/-5%

TRANSFORMER

Q300	12-BT3904-0BF	SMD. TRANSISTOR MMBT3904LT1(NPN)
Q301	12-BT3904-0BF	SMD. TRANSISTOR MMBT3904LT1(NPN)
Q302	12-BT3906-0BF	SMD. TRANSISTOR MMBT3906LT1(PNP)
Q305	12-BT3904-0BF	SMD. TRANSISTOR MMBT3904LT1(NPN)
Q306	12-BT3904-0BF	SMD. TRANSISTOR MMBT3904LT1(NPN)

DIODE

D301	10-1N4148-ABF	DIODE 1N4148 (SWITCHING)
D302	10-1N4148-ABF	DIODE 1N4148 (SWITCHING)

CONNECTOR

CON302	46-FG016T-04K01 HS 4P UL2468#26 160MM
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IC

U301	13-0SS312-00B	VFD DRIVER IC S0792GB
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SWITCH CONNECTOR

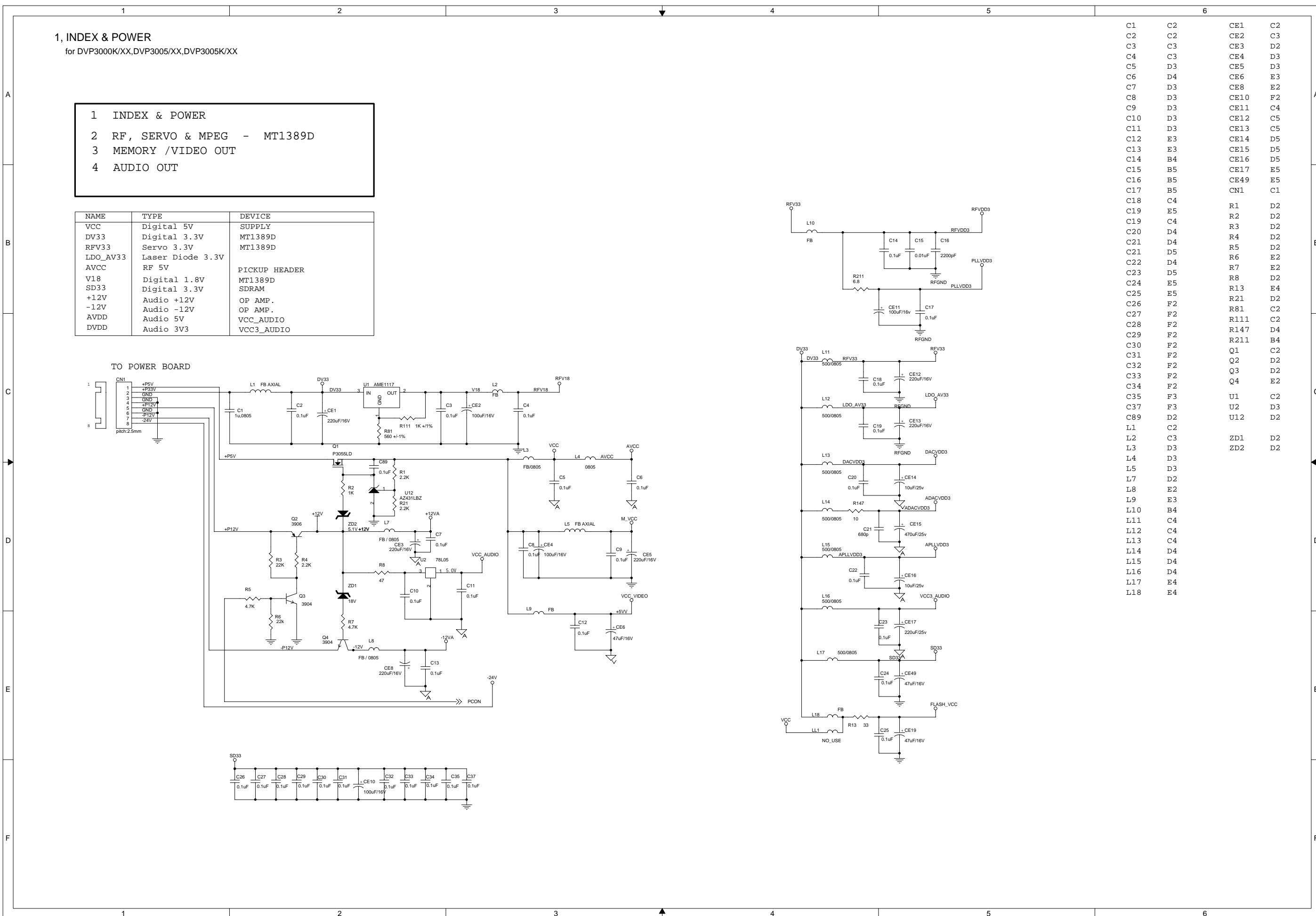
CON302	46-FG016T-04K01 HS 4P UL2468#26 160MM	
K302	48-TAC020-XX0	SWITCH TACT TSAB-1
K303	48-TAC020-XX0	SWITCH TACT TSAB-1
K304	48-TAC020-XX0	SWITCH TACT TSAB-1
K305	48-TAC020-XX0	SWITCH TACT TSAB-1
K306	48-TAC020-XX0	SWITCH TACT TSAB-1

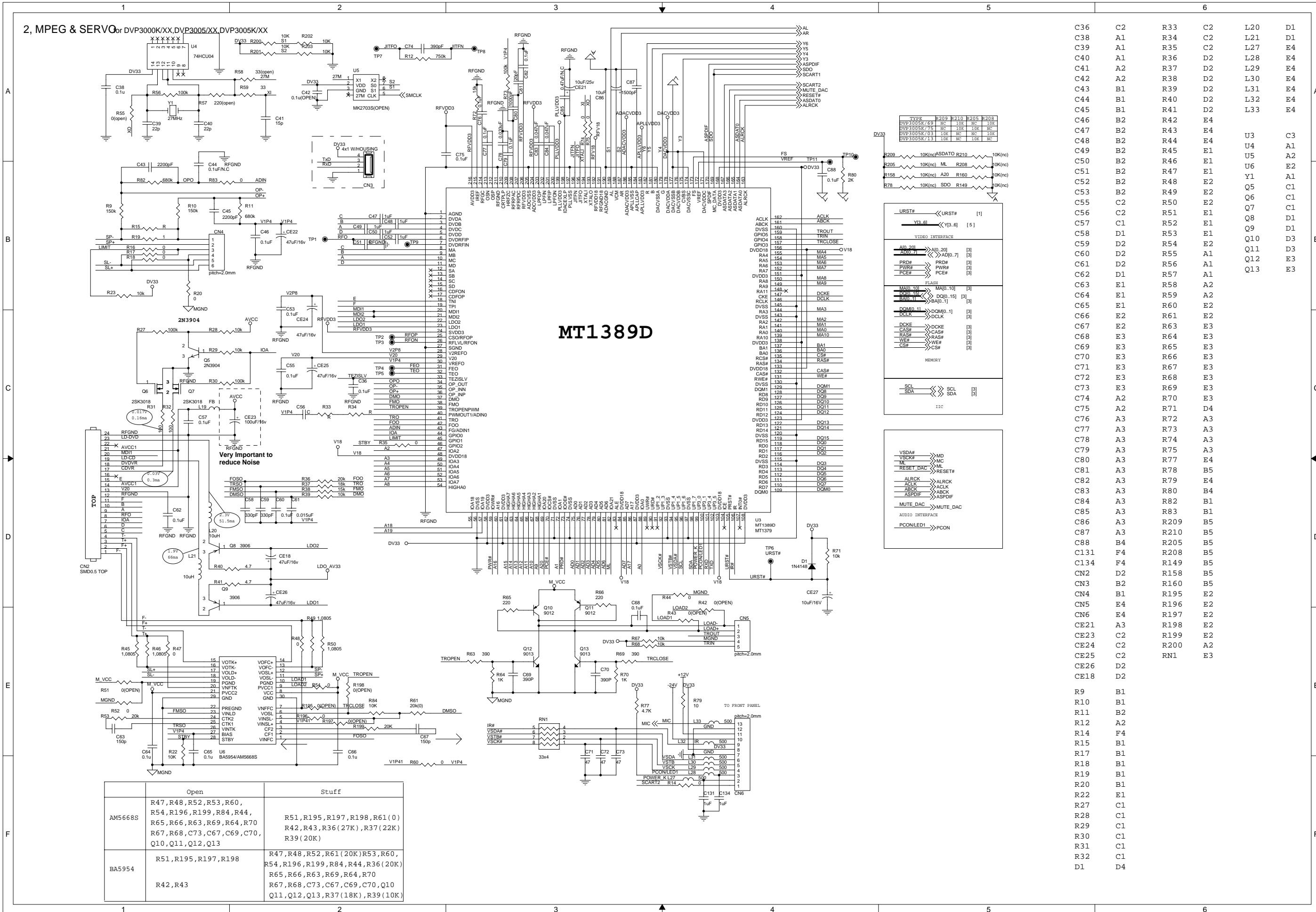
**NOTE:ONLY THE PARTS MENTIONED IN THIS LIST ARE
NORMAL SERVICES SPARE PARTS**

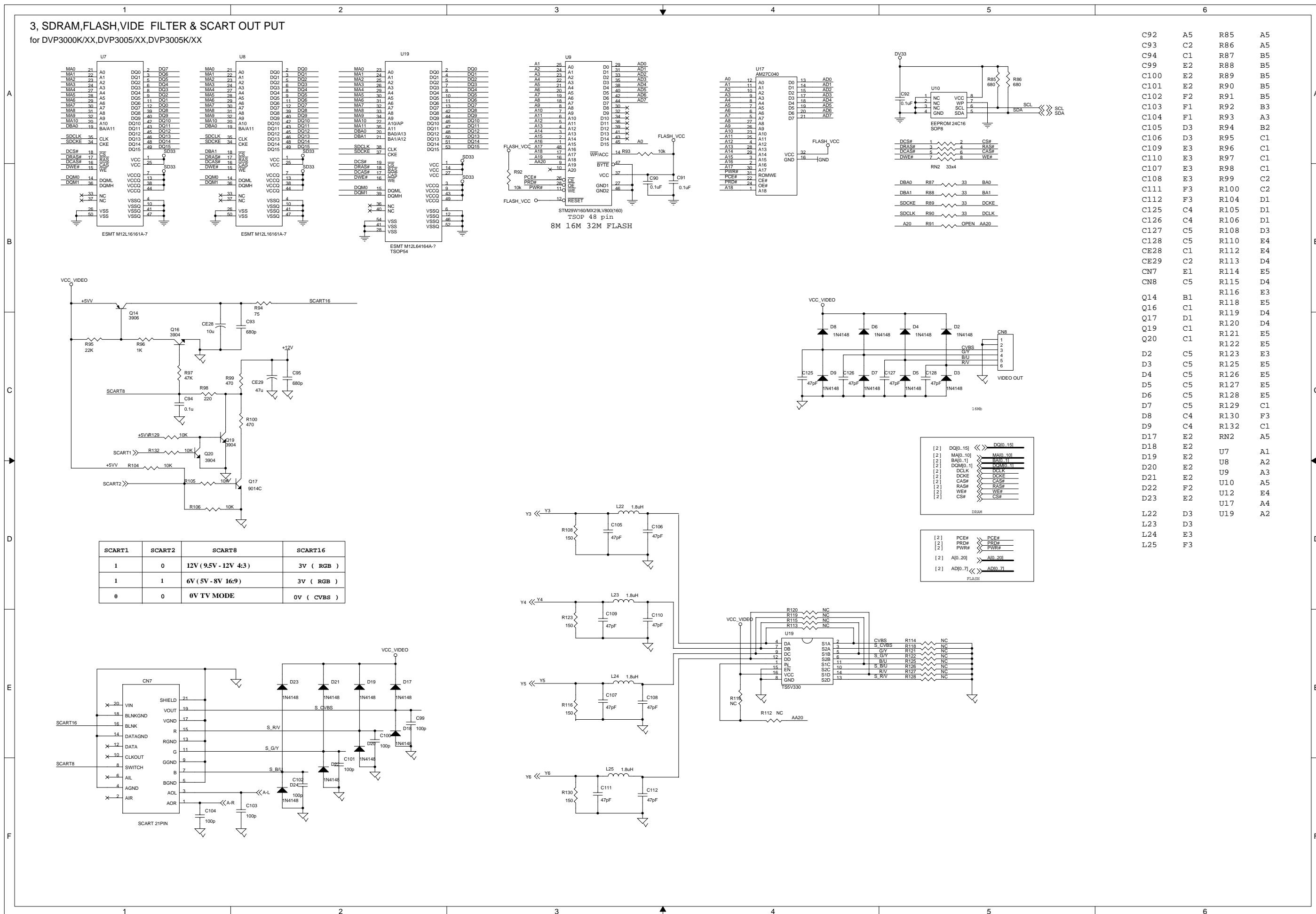
MPEG BOARD

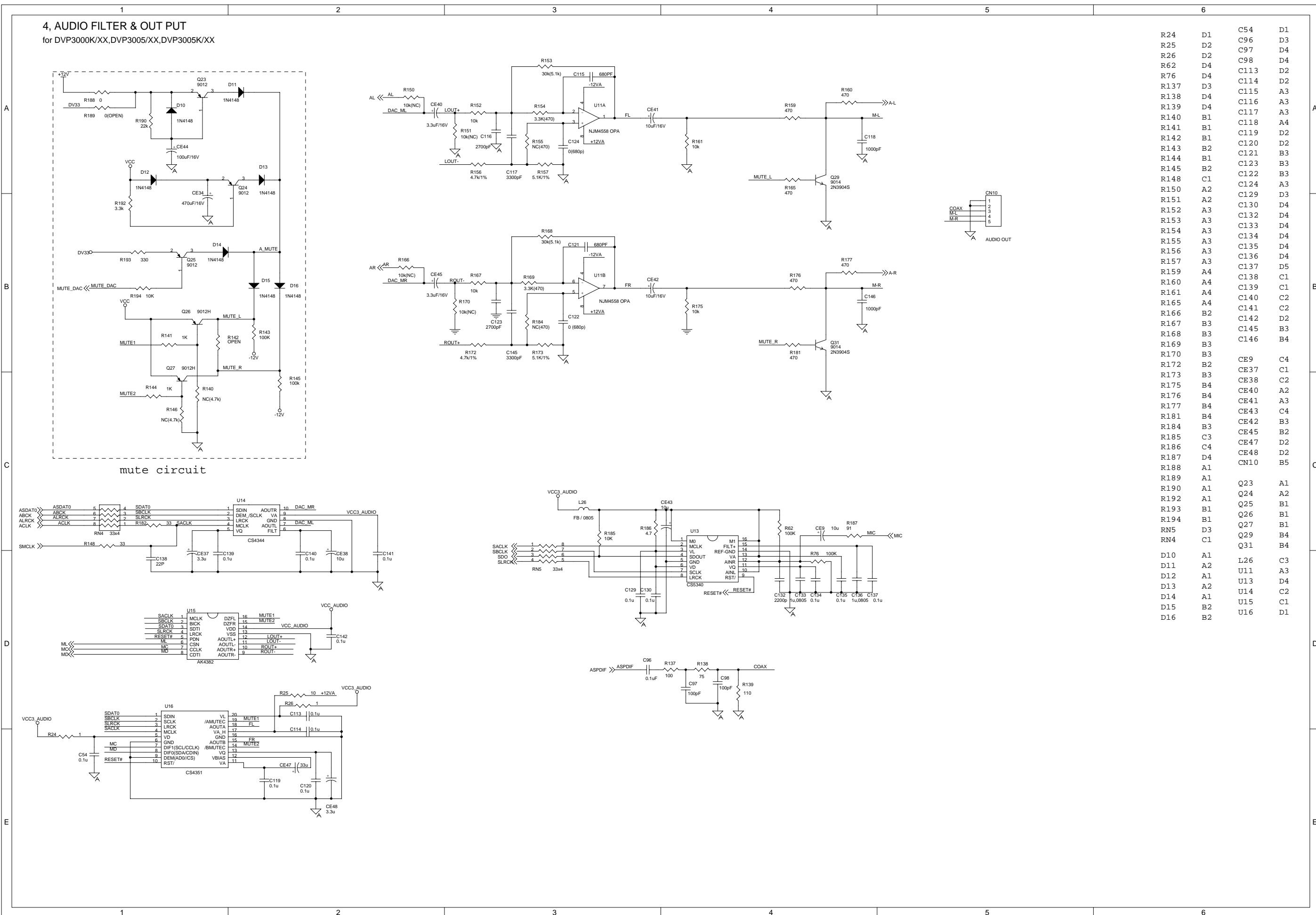
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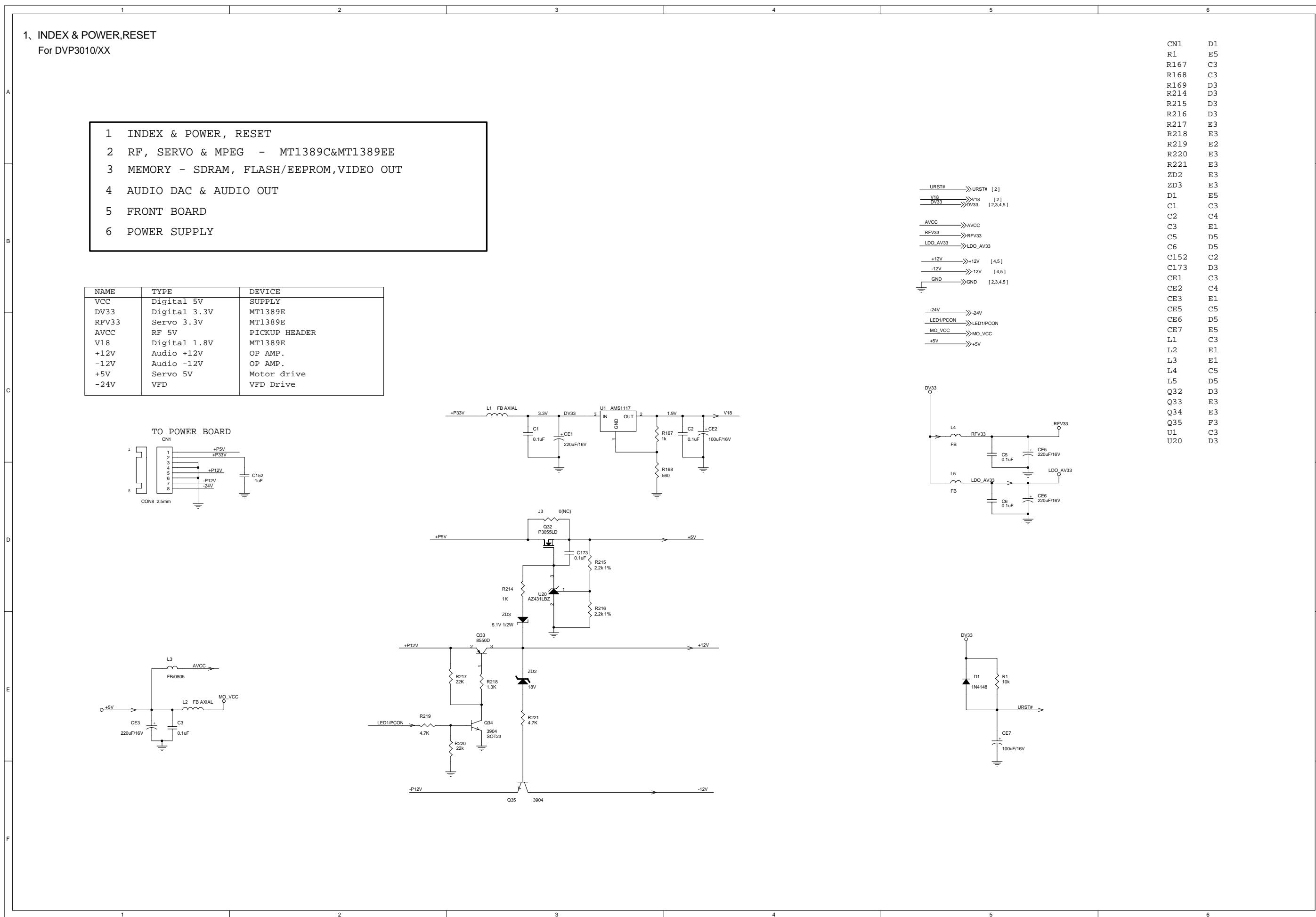
. Circuit Diagram for DVP3000 & DVP3005.....	8-2~8-5
. Circuit Diagram for DVP3010.....	8-6~8-9
. Mpeg board Component & Chip Layout.....	8-10~8-11
. Electrical Parts List.....	8-12

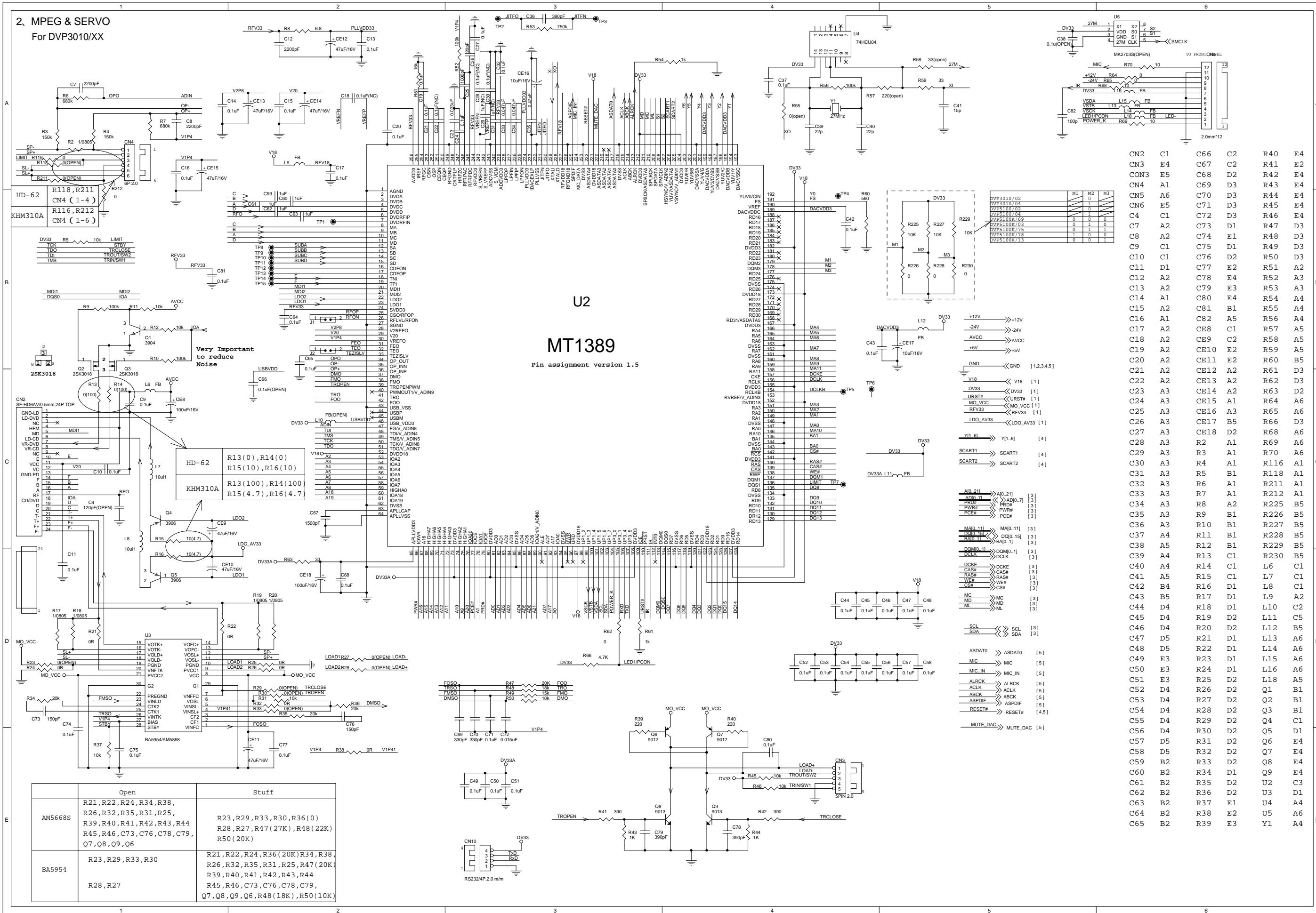


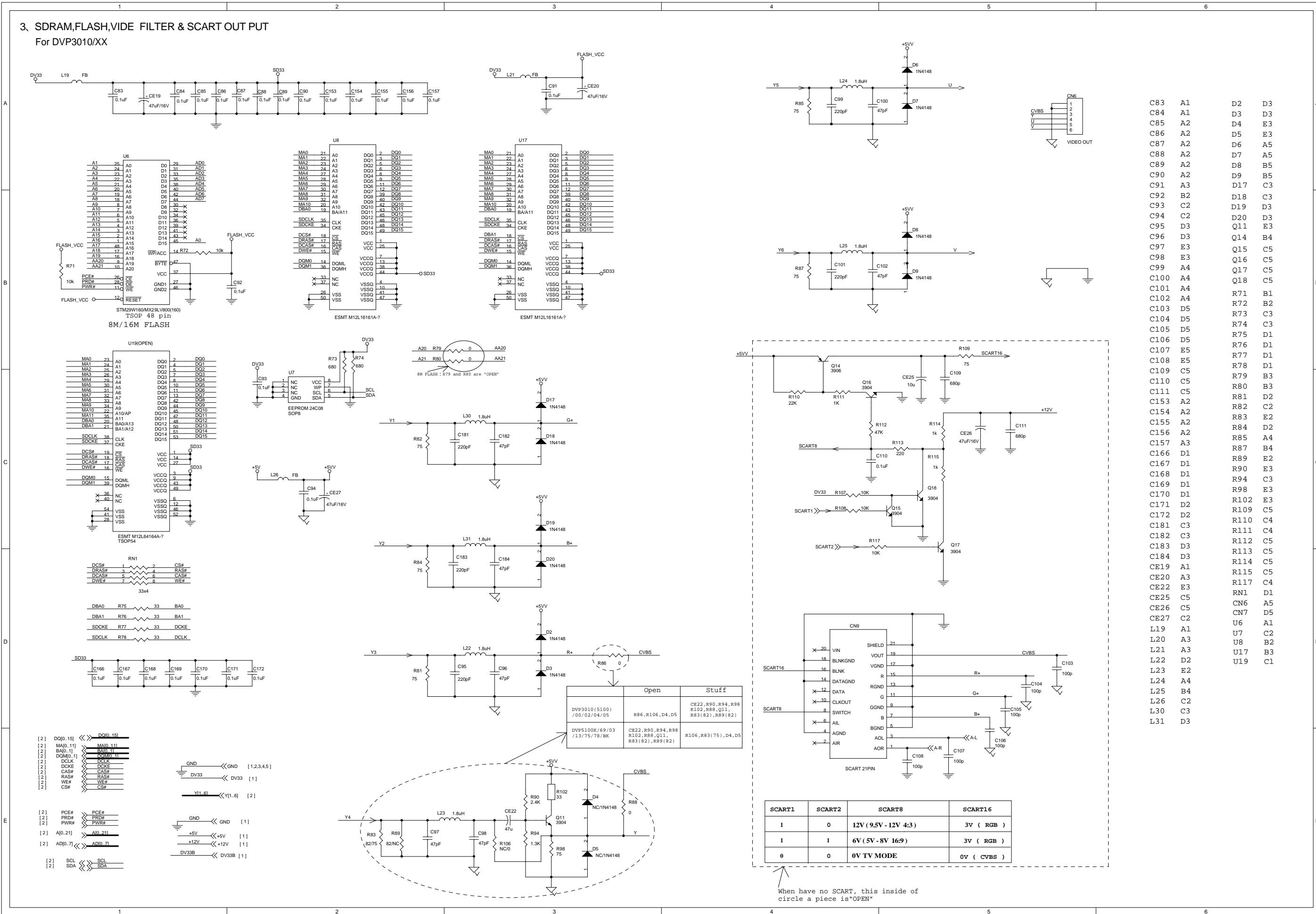


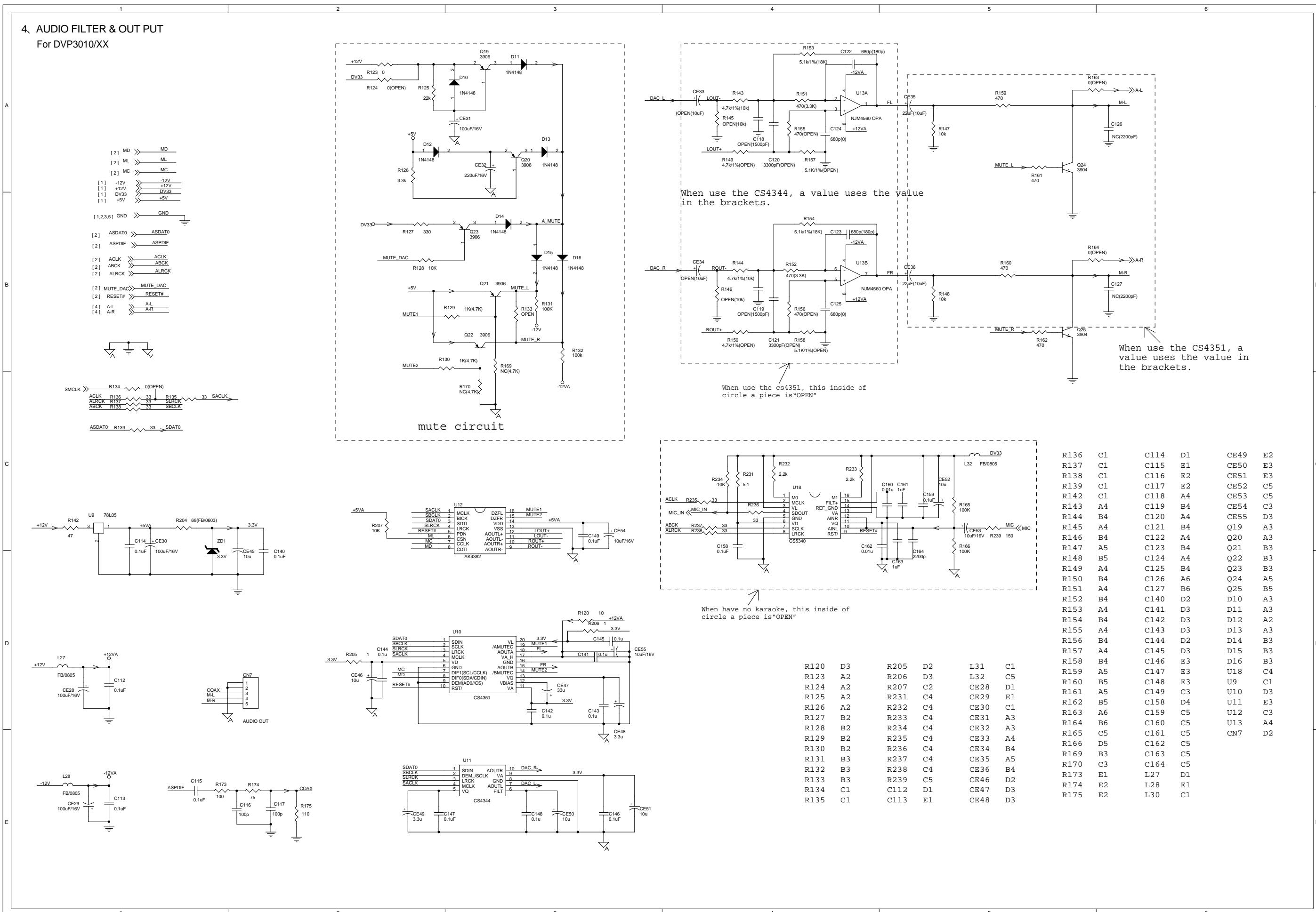




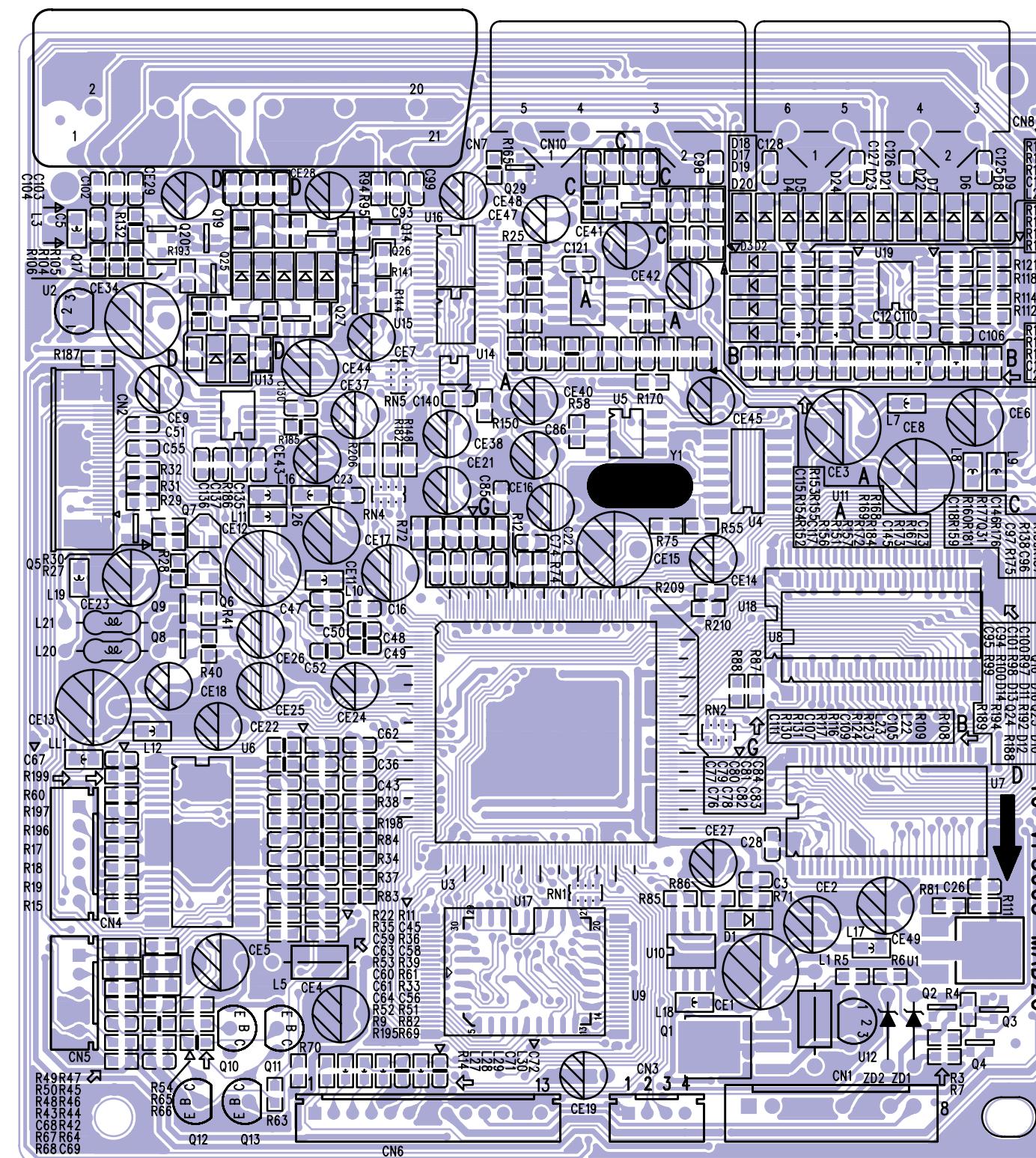




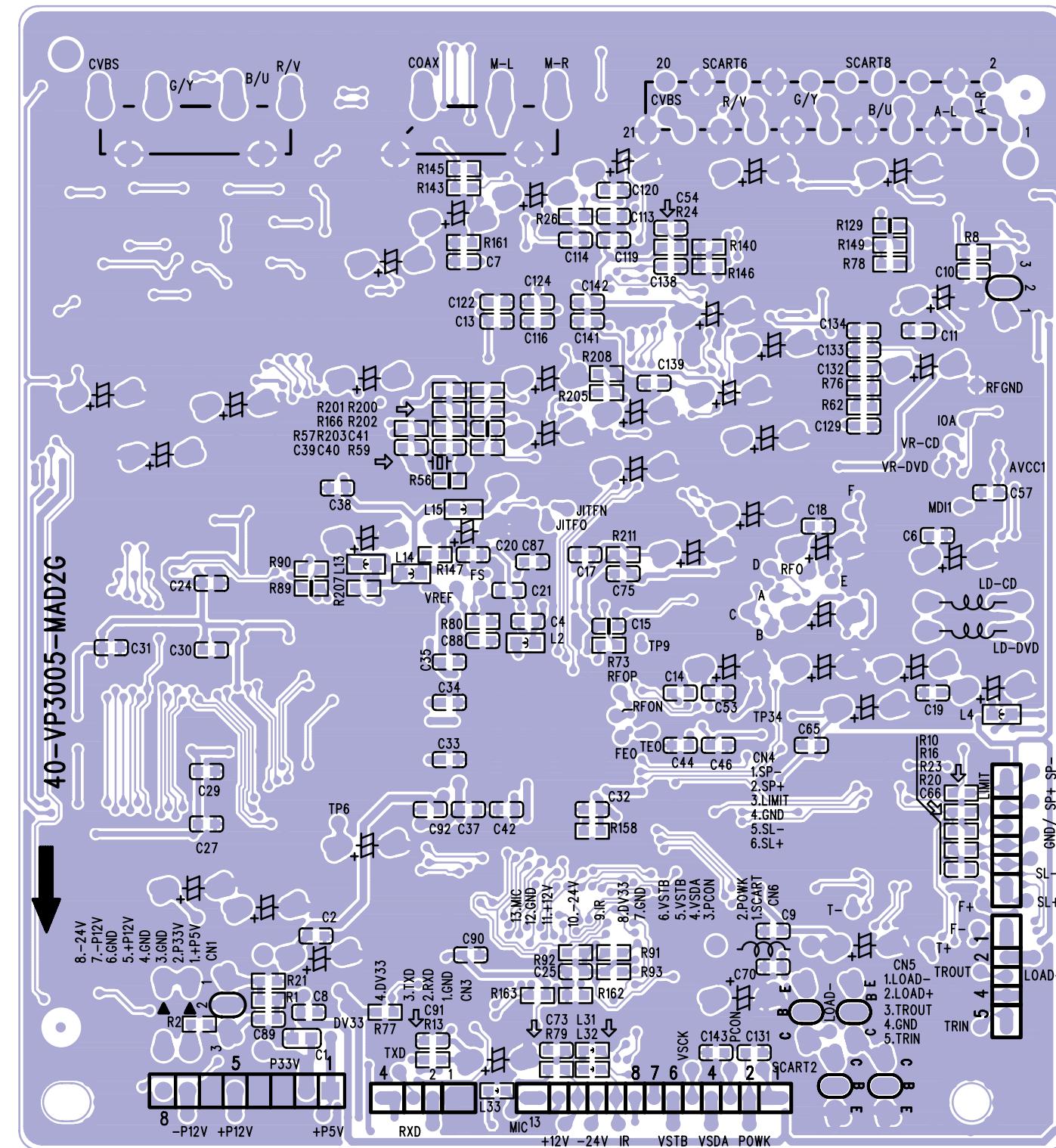




Mpeg Board Top Side



Mpeg Board Bottom Side



ELECTRICAL PARTS FOR MAIN BOARD

CAPACITORS

C1	28-AC0105-ZFX	SMD. CAP 1 UF 16VDC +80%/-20%
C105	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C106	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C107	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C108	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C109	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C110	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C111	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C112	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C115	28-AB0181-JCX	SMD. CAP 180 pF 50V +/-5% C
C116	28-AB0272-KBX	CAP.SMD 2700PF 50V +/-10% 0603
C118	28-AB0102-KBX	SMD. CAP 1000 pF 50V +/-10% B
C12	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C121	28-AB0181-JCX	SMD. CAP 180 pF 50V +/-5% C
C122	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
C123	28-AB0272-KBX	CAP.SMD 2700PF 50V +/-10% 0603
C124	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
C13	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C14	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C146	28-AB0102-KBX	SMD. CAP 1000 pF 50V +/-10% B
C15	28-AB0103-ZFX	CAP.SMD 10NF 50V +80-20% 0603
C16	28-AB0222-KBX	CAP.SMD 2200PF 50V +/-10% 0603
C17	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C18	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C19	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C2	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C20	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C21	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C22	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C23	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C24	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C25	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C26	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C27	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C28	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C29	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C3	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C30	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C31	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C32	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C33	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C34	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603
C35	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%/-20% 0603

CAPACITORS

C36	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C37	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C39	28-AB0220-JCX	CAP. SMD 22PF 50V +/-5% C
C4	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C40	28-AB0220-JCX	CAP. SMD 22PF 50V +/-5% C
C41	28-AB0150-JCX	CAP.SMD 15P 50V +/-5% 0603
C43	28-AB0222-KBX	CAP.SMD 2200PF 50V +/-10% 0603
C45	28-AB0222-KBX	CAP.SMD 2200PF 50V +/-10% 0603
C46	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C47	28-AC0105-ZFX	SMD. CAP 1 UF 16VDC +80%/-20%
C48	28-AC0105-ZFX	SMD. CAP 1 UF 16VDC +80%/-20%
C49	28-AC0105-ZFX	SMD. CAP 1 UF 16VDC +80%/-20%
C5	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C50	28-AC0105-ZFX	SMD. CAP 1 UF 16VDC +80%/-20%
C53	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C55	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C57	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C58	28-AB0331-JCX	SMD. CAP 330 pF 50V +/-5% 0603
C59	28-AB0331-JCX	SMD. CAP 330 pF 50V +/-5% 0603
C6	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C60	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C61	28-AB0153-ZFX	SMD. CAP 0.015 UF 50V 0603 F
C62	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C63	28-AB0151-JCX	SMD. CAP 150 pF 50V +/-5% C
C64	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C65	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C66	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C67	28-AB0151-JCX	SMD. CAP 150 pF 50V +/-5% C
C68	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C69	28-AB0391-JCX	CAP.SMD 390P 50V +/-5% 0603
C7	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C70	28-AB0391-JCX	CAP.SMD 390P 50V +/-5% 0603
C71	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C72	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C73	28-AB0470-JCX	CAP.SMD 47PF 50V +/-5% 0603
C74	28-AB0391-JCX	CAP.SMD 390P 50V +/-5% 0603
C75	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C76	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C77	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C78	28-AB0333-ZFX	CAP.SMD 0.033UF 50V 80-20 0603
C79	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C8	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603
C80	28-AB0102-KBX	SMD. CAP 1000 pF 50V +/-10% B

CAPACITORS			RESISTANCE		
C81	28-AB0200-JCX	CAP.SMD 20P 50V +/-5% 0603	R1	19-AB0222-JTF	RES SMD 2.2K OHM 1/10W 0603
C82	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603	R10	19-AB0154-JTF	SMD. RES 150K 1/10W +/-5% 0603
C83	28-AB0473-ZFX	SMD CAP 0.047 UF 50V +80-20%	R108	19-AB0151-JTF	RES SMD 150 OHM 1/10W 0603
C84	28-AB0473-ZFX	SMD CAP 0.047 UF 50V +80-20%	R11	19-AB0684-JTF	SMD. RES 680K 1/10W +/-5% 0603
C86	25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	R110	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
C87	28-AB0152-KBX	SMD. CAP 1500 pF 50V +/-10% B	R111	19-AB0102-FTF	RES SMD 1K OHM 1/10W +/-1% 0603
C88	28-AB0104-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603	R116	19-AB0151-JTF	RES SMD 150 OHM 1/10W 0603
C9	28-AB0105-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603	R118	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
C90	28-AB0106-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603	R12	19-AB0754-JTF	SMD. RES 750K 1/10W +/-5% 0603
C91	28-AB0107-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603	R123	19-AB0151-JTF	RES SMD 150 OHM 1/10W 0603
C92	28-AB0108-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603	R125	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
C96	28-AB0109-ZFX	SMD. CAP 0.1 UF 50V +80%-20% 0603	R13	19-AB0330-JTF	RES SMD 33 OHM 1/10W +/-5% 0603
C97	28-AB0110-ZFX	SMD. CAP 100 pF 50VDC +/-5%	R130	19-AB0151-JTF	RES SMD 150 OHM 1/10W 0603
C98	28-AB0111-ZFX	SMD. CAP 100 pF 50VDC +/-5%	R137	19-BB0101-JTF	SMD. RES 100 OHM 1/10W +/-5%
CE1	28-AB0112-ZFX	CAP. ELEC 220 UF 16V +/-20%	R138	19-AB0750-JTF	SMD. RES 75 OHM 1/10W 0603
CE11	28-AB0113-ZFX	CAP. ELEC 100 UF 16V +/-20%	R139	19-AB0111-JTF	RES SMD 110 OHM 1/10W 0603
CE12	28-AB0114-ZFX	CAP. ELEC 220 UF 16V +/-20%	R143	19-AB0104-JTF	SMD. RES 100K OHM 1/10W 0603
CE13	28-AB0115-ZFX	CAP. ELEC 220 UF 16V +/-20%	R145	19-AB0104-JTF	SMD. RES 100K OHM 1/10W 0603
CE14	28-AB0116-ZFX	CAP. ELEC 10 UF 16V +/-20%	R150	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
CE15	28-AB0117-ZFX	CAP. ELEC 470 UF 16V +/-20%	R152	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
CE16	28-AB0118-ZFX	CAP. ELEC 10 UF 16V +/-20%	R153	19-AB0303-JTF	RES SMD 30K OHM 1/10W 0603
CE17	28-AB0119-ZFX	CAP. ELEC 220 UF 16V +/-20%	R154	19-AB0332-JTF	SMD RES 3.3K OHM 1/10W 0603
CE18	28-AB0120-ZFX	CAP. ELEC 47 UF 16V +/-20%	R159	19-AB0471-JTF	SMD. RES 470 OHM 1/10W +/-5%
CE19	28-AB0121-ZFX	CAP. ELEC 47 UF 16V +/-20%	R161	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
CE2	28-AB0122-ZFX	CAP. ELEC 100 UF 16V +/-20%	R165	19-AB0471-JTF	SMD. RES 470 OHM 1/10W +/-5%
CE21	28-AB0123-ZFX	CAP. ELEC 10 UF 16V +/-20%	R166	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
CE22	28-AB0124-ZFX	CAP. ELEC 47 UF 16V +/-20%	R167	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
CE23	28-AB0125-ZFX	CAP. ELEC 100 UF 16V +/-20%	R168	19-AB0303-JTF	RES SMD 30K OHM 1/10W 0603
CE24	28-AB0126-ZFX	CAP. ELEC 47 UF 16V +/-20%	R169	19-AB0332-JTF	SMD RES 3.3K OHM 1/10W 0603
CE25	28-AB0127-ZFX	CAP. ELEC 47 UF 16V +/-20%	R17	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
CE26	28-AB0128-ZFX	CAP. ELEC 47 UF 16V +/-20%	R175	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
CE27	28-AB0129-ZFX	CAP. ELEC 100 UF 16V +/-20%	R176	19-AB0471-JTF	SMD. RES 470 OHM 1/10W +/-5%
CE3	28-AB0130-ZFX	CAP. ELEC 220 UF 16V +/-20%	R18	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
CE34	28-AB0131-ZFX	CAP. ELEC 470 UF 16V +/-20%	R181	19-AB0471-JTF	SMD. RES 470 OHM 1/10W +/-5%
CE4	28-AB0132-ZFX	CAP. ELEC 100 UF 16V +/-20%	R182	19-AB0330-JTF	RES SMD 33 OHM 1/10W +/-5% 0603
CE40	28-AB0133-ZFX	CAP. ELEC 3.3 UF 50V +/-20%	R188	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
CE41	28-AB0134-ZFX	CAP. ELEC 10 UF 16V +/-20%	R19	19-AB0109-JTF	RES SMD 1 OHM 1/10W +/-5%
CE42	28-AB0135-ZFX	CAP. ELEC 10 UF 16V +/-20%	R190	19-AB0223-JTF	SMD. RES 22K OHM 1/10W +/-5% 0603
CE44	28-AB0136-ZFX	CAP. ELEC 100 UF 16V +/-20%	R192	19-AB0332-JTF	SMD RES 3.3K OHM 1/10W 0603
CE45	28-AB0137-ZFX	CAP. ELEC 3.3 UF 50V +/-20%	R193	19-AB0331-JTF	RES. SMD 330 OHM 1/10W 0603
CE49	28-AB0138-ZFX	CAP. ELEC 47 UF 16V +/-20%	R194	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
CE5	28-AB0139-ZFX	CAP. ELEC 220 UF 16V +/-20%	R196	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
CE6	28-AB0140-ZFX	CAP. ELEC 47 UF 16V +/-20%	R199	19-AB0203-JTF	RES. SMD 20K OHM 1/10W 0603
CE8	28-AB0141-ZFX	CAP. ELEC 220 UF 16V +/-20%	R2	19-AB0102-JTF	RES SMD 1K OHM 1/10W 0603
CE9	28-AB0142-ZFX	CAP. ELEC 10 UF 16V +/-20%	R207	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603

RESISTANCE

R209	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R21	19-AB0222-JTF	RES SMD 2.2K OHM 1/10W 0603
R211	19-AB0689-JTF	SMD. RES. 6.8 OHM 1/10W +/-5%
R22	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R23	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R26	19-AB0104-JTF	SMD. RES 100K OHM 1/10W 0603
R27	19-AB0104-JTF	SMD. RES 100K OHM 1/10W 0603
R28	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R29	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R3	19-AB0223-JTF	SMD. RES 22K OHM 1/10W +/-5% 0603
R30	19-AB0104-JTF	SMD. RES 100K OHM 1/10W 0603
R31	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R32	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R35	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R36	19-AB0203-JTF	RES. SMD 20K OHM 1/10W 0603
R37	19-AB0183-JTF	SMD. RES 18K OHM 1/10W +/-5% 0603
R38	19-AB0153-JTF	RES SMD 15K OHM 1/10W 0603
R39	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R4	19-AB0222-JTF	RES SMD 2.2K OHM 1/10W 0603
R40	19-AB0479-JTF	SMD. RES 4.7 OHM 1/10W 0603
R41	19-AB0479-JTF	SMD. RES 4.7 OHM 1/10W 0603
R44	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R45	19-BB0109-JTF	SMD. RES 1 OHM 1/10W +/-5% 0805
R46	19-BB0109-JTF	SMD. RES 1 OHM 1/10W +/-5% 0805
R48	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R49	19-BB0109-JTF	SMD. RES 1 OHM 1/10W +/-5% 0805
R5	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R50	19-BB0109-JTF	SMD. RES 1 OHM 1/10W +/-5% 0805
R52	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R53	19-AB0203-JTF	RES. SMD 20K OHM 1/10W 0603
R54	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R55	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R56	19-AB0104-JTF	SMD. RES 100K OHM 1/10W 0603
R57	19-AB0221-JTF	RES SMD 220 OHM 1/10W 0603
R59	19-AB0330-JTF	RES SMD 33 OHM 1/10W +/-5%0603
R6	19-AB0223-JTF	SMD. RES 22K OHM 1/10W +/-5% 0603
R60	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R61	19-AB0203-JTF	RES. SMD 20K OHM 1/10W 0603
R63	19-AB0391-JTF	SMD RES 390 OHM 1/10W 0603
R64	19-AB0102-JTF	RES SMD 1K OHM 1/10W 0603
R65	19-AB0221-JTF	RES SMD 220 OHM 1/10W 0603
R66	19-AB0221-JTF	RES SMD 220 OHM 1/10W 0603
R67	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R68	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R69	19-AB0391-JTF	SMD RES 390 OHM 1/10W 0603

RESISTANCE

R7	19-AB0472-JTF	RES SMD 4.7K OHM 1/10W 0603
R70	19-AB0102-JTF	RES SMD 1K OHM 1/10W 0603
R71	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R72	19-AB0153-JTF	RES SMD 15K OHM 1/10W 0603
R73	19-AB0104-JTF	SMD. RES 100K OHM 1/10W 0603
R74	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R75	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R77	19-AB0472-JTF	RES SMD 4.7K OHM 1/10W 0603
R79	19-AB0100-JTF	RES SMD 10 OHM 1/10W +/-5%
R80	19-AB0751-JTF	SMD. RES 750 OHM 1/10W 0603
R81	19-AB0561-FTF	RES SMD 560 OHM 1/10W +/-1% 0603
R82	19-AB0684-JTF	SMD. RES 680K 1/10W +/-5% 0603
R83	19-AB0000-JTF	RES SMD 0 OHM 1/10W +/-5% 0603
R84	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R85	19-AB0681-JTF	SMD. RES. 680 OHM 1/10W 0603
R86	19-AB0681-JTF	SMD. RES. 680 OHM 1/10W 0603
R87	19-AB0330-JTF	RES SMD 33 OHM 1/10W +/-5%0603
R88	19-AB0330-JTF	RES SMD 33 OHM 1/10W +/-5%0603
R89	19-AB0330-JTF	RES SMD 33 OHM 1/10W +/-5%0603
R9	19-AB0154-JTF	SMD. RES 150K 1/10W +/-5% 0603
R90	19-AB0330-JTF	RES SMD 33 OHM 1/10W +/-5%0603
R92	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
R93	19-AB0103-JTF	RES SMD 10K OHM 1/10W 0603
RN1	23-A08330-JBX	NETWORK RES. 33 OHM +/-5%
RN2	23-A08330-JBX	NETWORK RES. 33 OHM +/-5%
RN4	23-A08330-JBX	NETWORK RES. 33 OHM +/-5%

CONNECTOR

CN1	46-33079W-08X	PIN BASE *8 TJC3-8A
CN10	47-RCA149-XX0	RCA SOCKET AV-8.4-4W-041
CN2	46-37146W-24X	PIN BASE FPC 0.5-SMT-24PW
CN3	46-35199W-04X	CONN.PH-4A 4PIN PITCH=2.0MM
CN5	46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM
CN8	47-RCA150-XX0	RCA SOCKET AV-8.4-4W-042

IC

U1	13-AMS111-70B	IC AMS1117(SOT-223)
U10	13-00M24C-08B	IC EEPROM 8K M24C08
U11	13-NJM455-8VB	IC NJM4558V (SMD PKG)
U12	13-AMC431-LPT	IC AMC431LP
U17	13-A2904L-70B	A29L040L-70 4M 3.3V FLASH
U3	13-1389QE-D0B	IC MT1389QE/D
U6	13-BA5954-FPB	IC BA5954FP

TRANSISTOR

Q1	12-A03055-0BX	N MOSFET A03055
Q10	11-CG9012-HBF	TRANSISTOR 3CG9012H (PNP)
Q11	11-CG9012-HBF	TRANSISTOR 3CG9012H (PNP)
Q12	11-DG9013-HBF	TRANSISTOR 3DG9013H (NPN)
Q13	11-DG9013-HBF	TRANSISTOR 3DG9013H (NPN)
Q2	12-BT8550-CBX	SMD. TRANSISTOR MMBT8550CLT1
Q23	12-BT3906-0BF	SMD. TRANSISTOR MMBT3906LT1(PNP)
Q24	12-BT3906-0BF	SMD. TRANSISTOR MMBT3906LT1(PNP)
Q25	12-BT3906-0BF	SMD. TRANSISTOR MMBT3906LT1(PNP)
Q29	12-BT3904-0BF	SMD. TRANSISTOR MMBT3904LT1(NPN)
Q3	12-BT3904-0BF	SMD. TRANSISTOR MMBT3904LT1(NPN)
Q31	12-BT3904-0BF	SMD. TRANSISTOR MMBT3904LT1(NPN)
Q4	12-BT3904-0BF	SMD. TRANSISTOR MMBT3904LT1(NPN)
Q5	12-BT3904-0BF	SMD. TRANSISTOR MMBT3904LT1(NPN)
Q6	12-SK3018-0BX	TRANSISTOR 2SK3018T106
Q7	12-SK3018-0BX	TRANSISTOR 2SK3018T106
Q8	12-BT3906-0BF	SMD. TRANSISTOR MMBT3906LT1(PNP)
Q9	12-BT3906-0BF	SMD. TRANSISTOR MMBT3906LT1(PNP)

INDUCTANCE

L33	33-KLN501-NTF	BEAD BGH0603B501LT 500 OHM
L4	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L5	35-339740-008	FERR BEAD BF40TA-3.5X6X1
L7	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L8	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L9	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%

DIODE

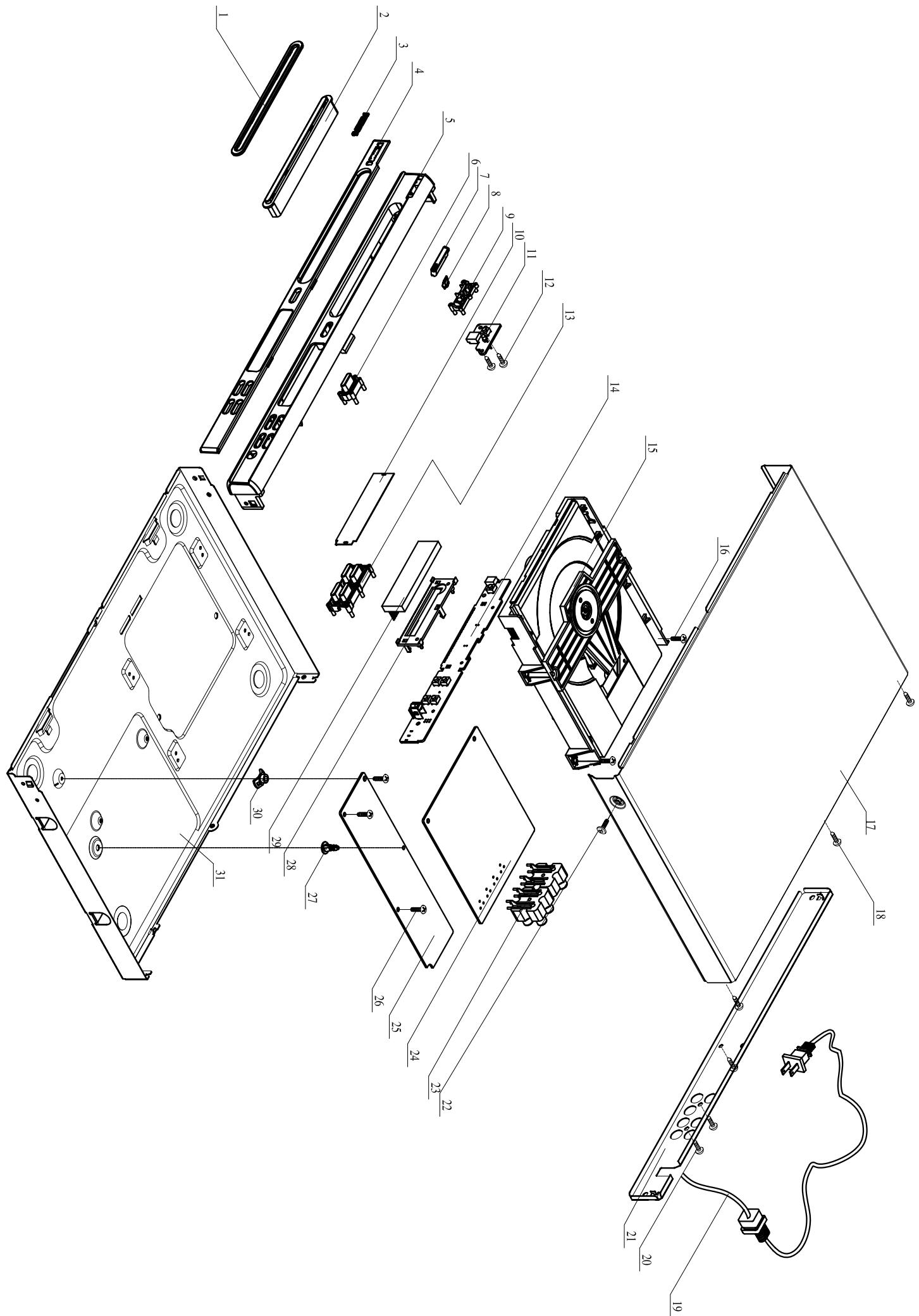
D1	09-004148-ATX	SMD DIODE 4148
D10	09-004148-ATX	SMD DIODE 4148
D11	09-004148-ATX	SMD DIODE 4148
D12	09-004148-ATX	SMD DIODE 4148
D13	09-004148-ATX	SMD DIODE 4148
D14	09-004148-ATX	SMD DIODE 4148
D15	09-004148-ATX	SMD DIODE 4148
D16	09-004148-ATX	SMD DIODE 4148
D2	09-004148-ATX	SMD DIODE 4148
D3	09-004148-ATX	SMD DIODE 4148
D4	09-004148-ATX	SMD DIODE 4148
D5	09-004148-ATX	SMD DIODE 4148

INDUCTANCE

L1	35-339740-008	FERR BEAD BF40TA-3.5X6X1
L10	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L11	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L12	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L13	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L14	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L15	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L16	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L17	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L18	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L19	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L2	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L20	34-A100K0-1IX	COIL CHOKE 10 UH +/-10%
L21	34-A100K0-1IX	COIL CHOKE 10 UH +/-10%
L22	33-KLL189-KTF	SMD. COIL 1.8 UH +/-10% 0603
L23	33-KLL189-KTF	SMD. COIL 1.8 UH +/-10% 0603
L24	33-KLL189-KTF	SMD. COIL 1.8 UH +/-10% 0603
L25	33-KLL189-KTF	SMD. COIL 1.8 UH +/-10% 0603
L27	33-KLN501-NTF	BEAD BGH0603B501LT 500 OHM
L28	33-KLN501-NTF	BEAD BGH0603B501LT 500 OHM
L29	33-KLN501-NTF	BEAD BGH0603B501LT 500 OHM
L3	33-ELN501-NTF	CHIP BEAD 500 OHM +/-25%
L30	33-KLN501-NTF	BEAD BGH0603B501LT 500 OHM
L31	33-KLN501-NTF	BEAD BGH0603B501LT 500 OHM
L32	33-KLN501-NTF	BEAD BGH0603B501LT 500 OHM

NOTE:ONLY THE PARTS MENTIONED IN THIS LIST ARE NORMAL SERVICES SPARE PARTS

Mechanical Exploded view



ENCASING & ACCESSORIES PARTS LIST

No.	Part No.	Part Name	Qty
1	56-3000L3-0HC	Door len	1
2	56-3000D1-0HC	Front door	1
3	67-L95312-0A0B1	LOGO	1
4	56-3005L1-0HC	Display lens	1
5	56-3005F3-0HN	Front panel	1
6	56-3005K2-0HN	Open/close button	1
7	56-3005K1-0HN	Standby button	1
8	56-3000L1-0HC	Standby light	1
9	56-3000H1-0HN	Standby button bracket	1
10	58-953240-0HI	INLAY(ESD cut sheet)	1
11	08-VP3005-SWY	ASS'Y -Switch BD	1
13	02-3005K3-XX0	Function button	1
14	08-VP3005-FBY	ASS'Y-FRONT CTL BD	1
15	08-LOADER-012	Loader	1
17	67-3000T2-0E0B1	TOP COVER	1
19	51-DC0165-0ANA4	POWER CORD L=1650MM	1
21	67-3000B2-0E0B1	BACK PLATE	1
23	47-RCA149-XX0	RCA SOCKET AV-8.4-4W-041	1
23	47-RCA150-XX0	RCA SOCKET AV-8.4-4W-042	1
24	08-VP3005-MA4	ASS'Y - Mpeg BD	1
25	08-VP3000-PWY	ASS'Y - Power BD	1
27	62-954020-0HF	SUPPORT POST	1
28	62-3005H1-0HN	SUPPORTER	1
29	14-VFD520-DX0	VFD VFD20-0707FN	1
30	62-953340-2HD	BRACKET	1

SCREW LIST

No.	Part No.	Part Name	Qty
12	63-B26080-BF4	S/T SCREW B 2.6 X 8 BF	2
16	64-B30070-304	MACHINE SCREW	2
18	64-B30060-307	TRIANGLE M/C SCREW 3*6.0	1
20	63-B30080-BF7	S/T SCREW B 3 X 8 B	2
22	64-W30060-307	M/C SCREW W3X6	2
26	64-B30060-304	TRIANGLE M/C SCREW B 3 X 6	2

Service Engineer Remarks: