

Service

DVP3960/37

Service

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Service Manual


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Version 1.0

**CLASS 1
LASER PRODUCT**

 3139 785 32460

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®

DVD	50Hz	60Hz
Horiz resolution	720 pixels	720 pixels
	1920pixels	1920pixels
Vertical resolution	576lines	480 lines
	1080lines	1080lines

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)	>90dB	
Dynamic Range (1kHz)	>80dB	
Cross talk (1kHz)	>80dB	
Distortion/Noise (1kHz)	>80dB	
MPEG MP3	MPEG Audio L3	

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
HDMI Out	

Cabinet

Dimensions (w X h X d)	360 x 37 x 235 mm
Weight	Approximately 2.0 kg

Power consumption

Power supply Rating	120V; 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 1M Ω .
 - 5) Verify this, before you return the unit to the customer/user (ref. UL-standard no. 1492).
 - 6) Switch the unit "off", and remove the wire between the two pins of the mains plug.

2.Laser safety

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

Laser device unit

Type : Semiconductor laser GaAlAs

Wavelength : 650nm (DVD)

: 780nm (VCD/CD)

Output power : 7mW (DVD)

: 10mW (DVD /CD)

Beam divergence: 60 degree

Note: Use of controls or adjustments or performance of procedure other than those specified herein, may result in hazardous radiation exposure. Avoid direct exposure to beam.

Warning

1. General

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

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

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

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

2. Laser

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


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

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

Notes

Lead-Free requirement for service

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, then remove the Top Cover (Figure 1).



Figure1

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.



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

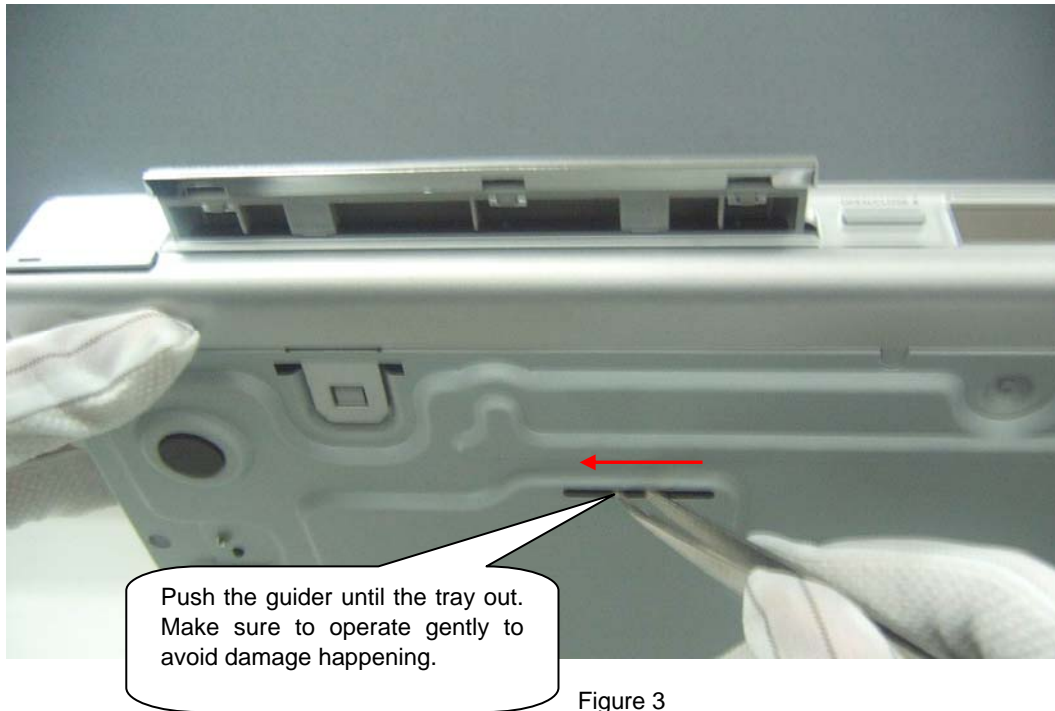
Figure 2

Mechanical and Dismantling Instructions

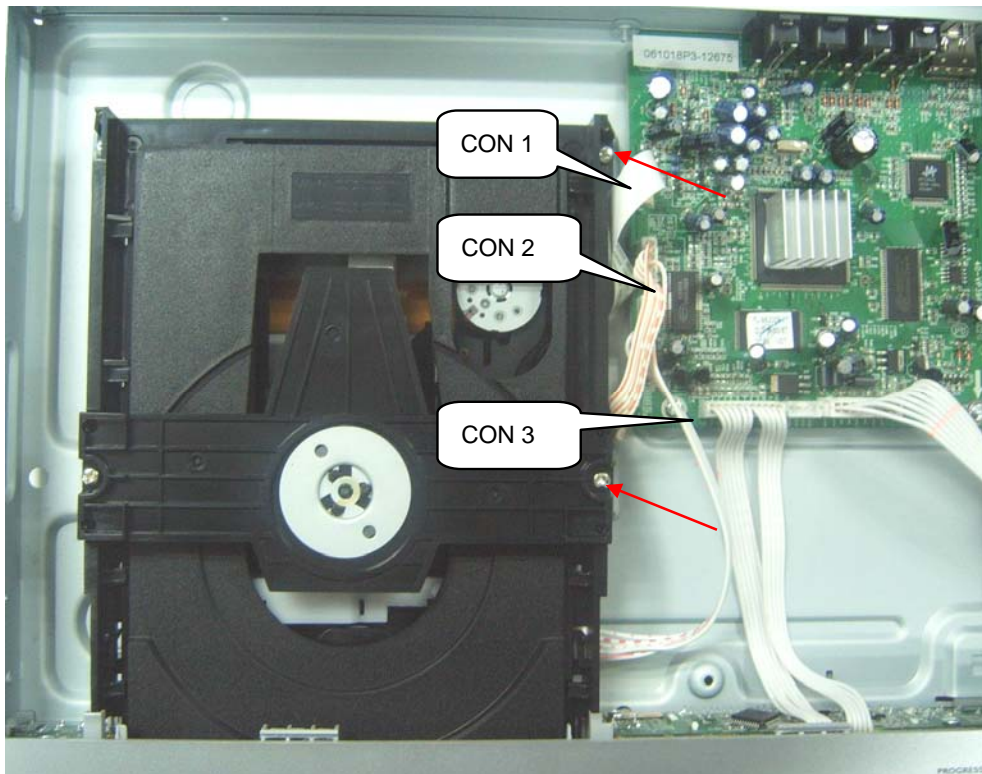
Dismantling Instruction

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.



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

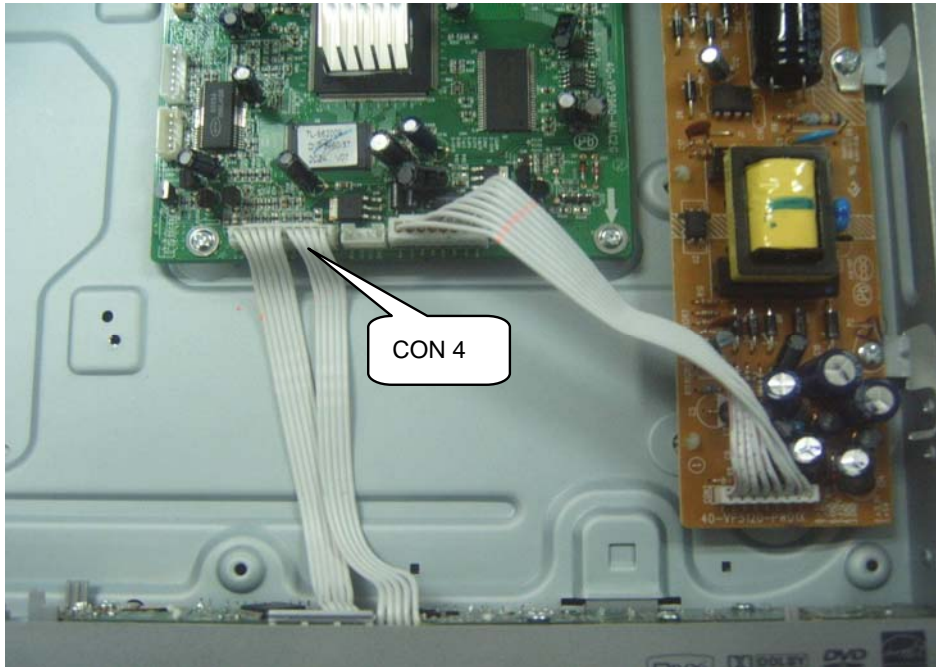


Figure 5

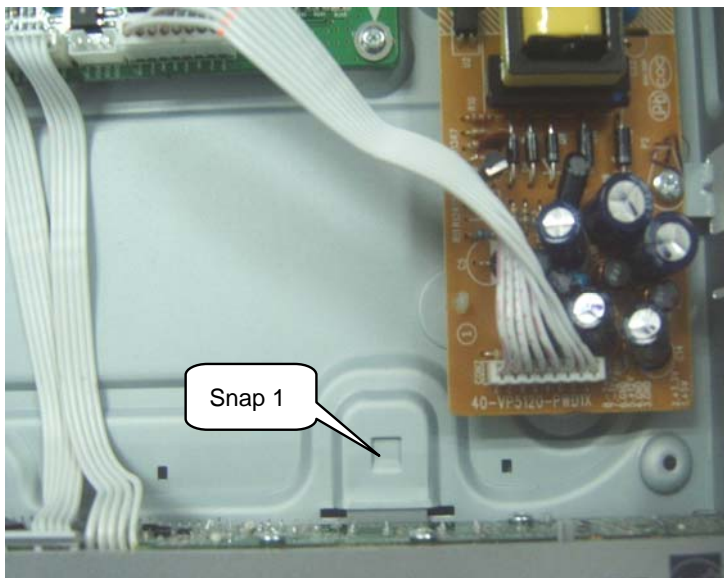


Figure 6

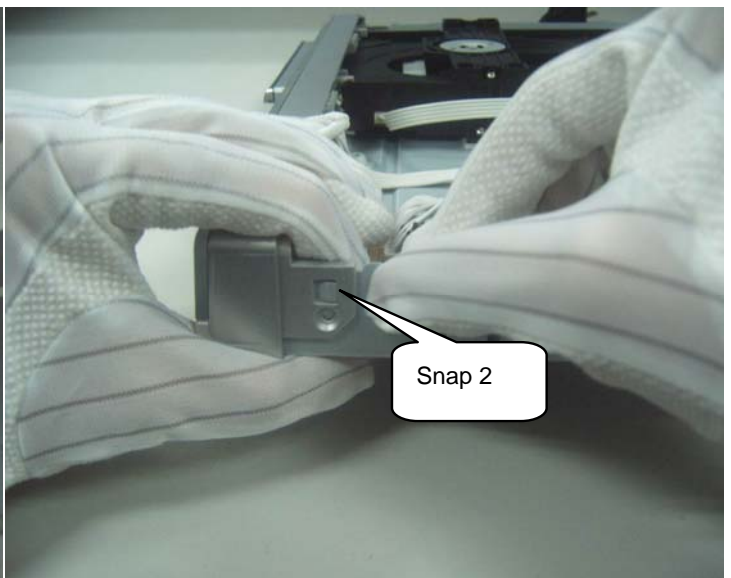


Figure 7

Mechanical and Dismantling Instructions

Dismantling Instruction

Step6: Dismantling Main Board, first disconnect the 1 connector, and then remove 5 screws to dismantle Main board. (Figure 8)

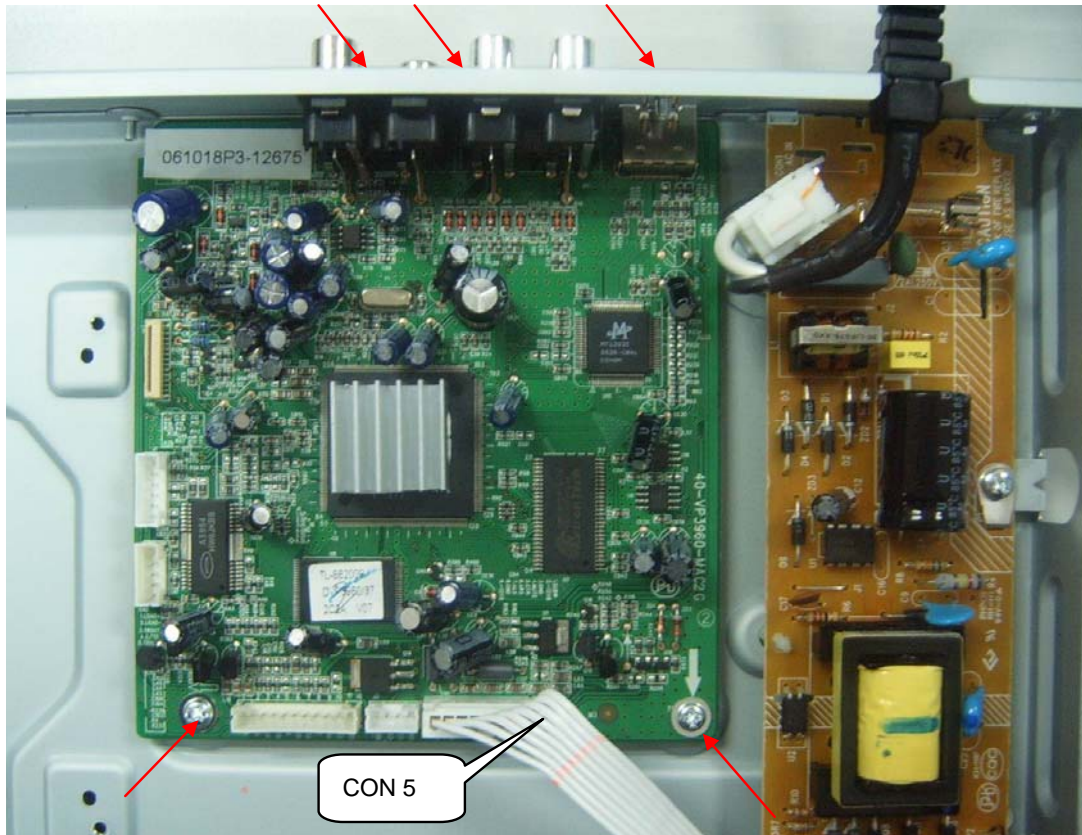


Figure 8

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

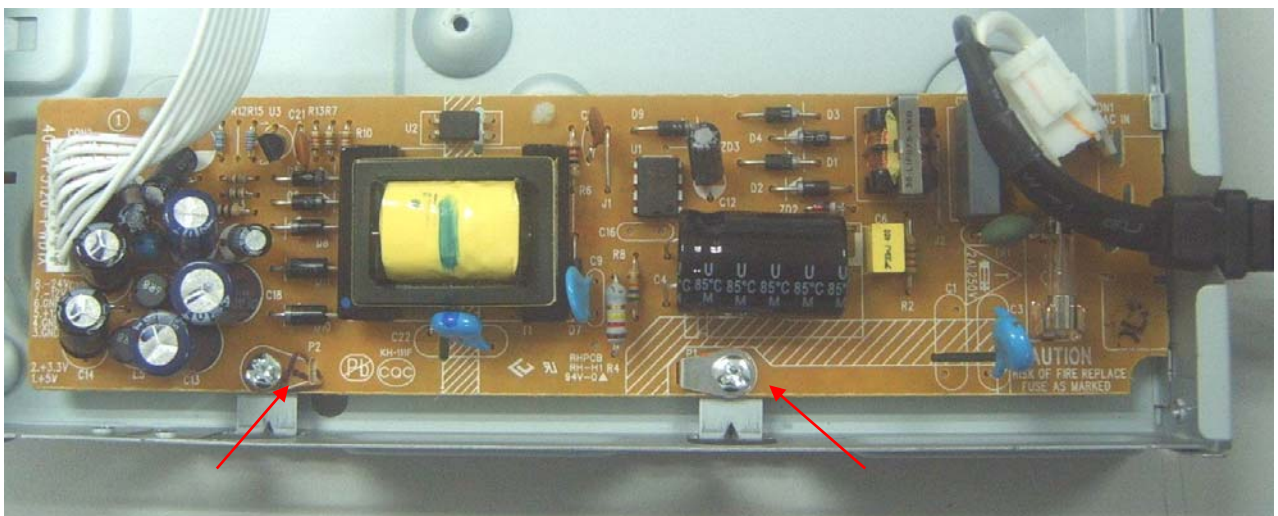


Figure 9

Mechanical and Dismantling Instructions

Dismantling Instruction

ATTENTION OF REPAIRING

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

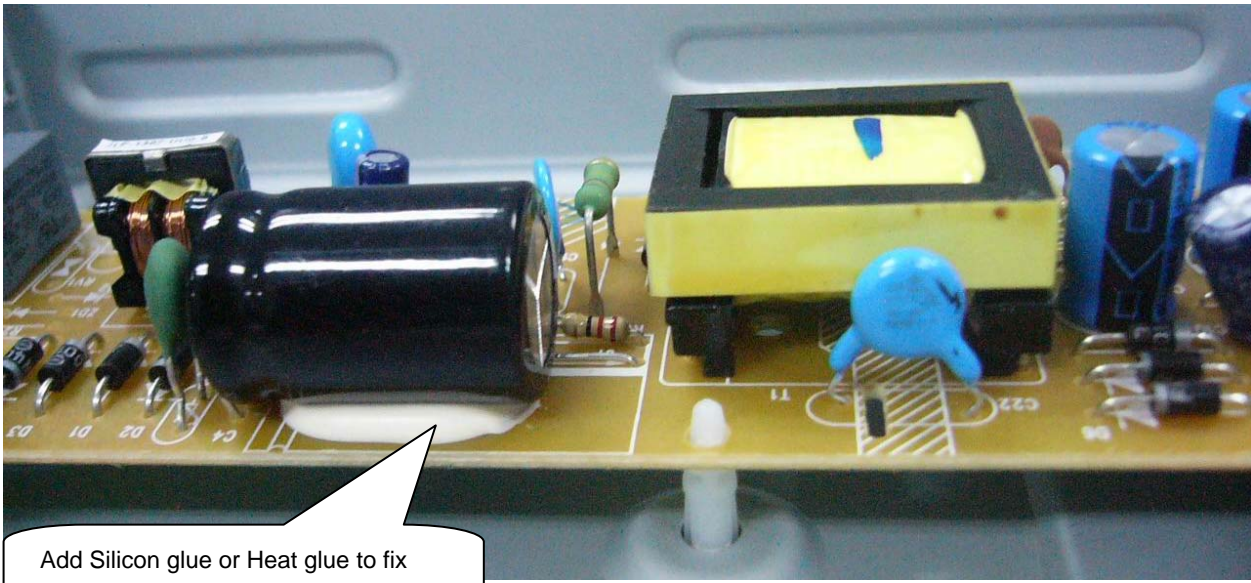


Figure 10

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)
File Name: DVPXXXX_XX.BIN
Power on the set and open the tray, then press <5><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

A. Procedure for software upgrade:

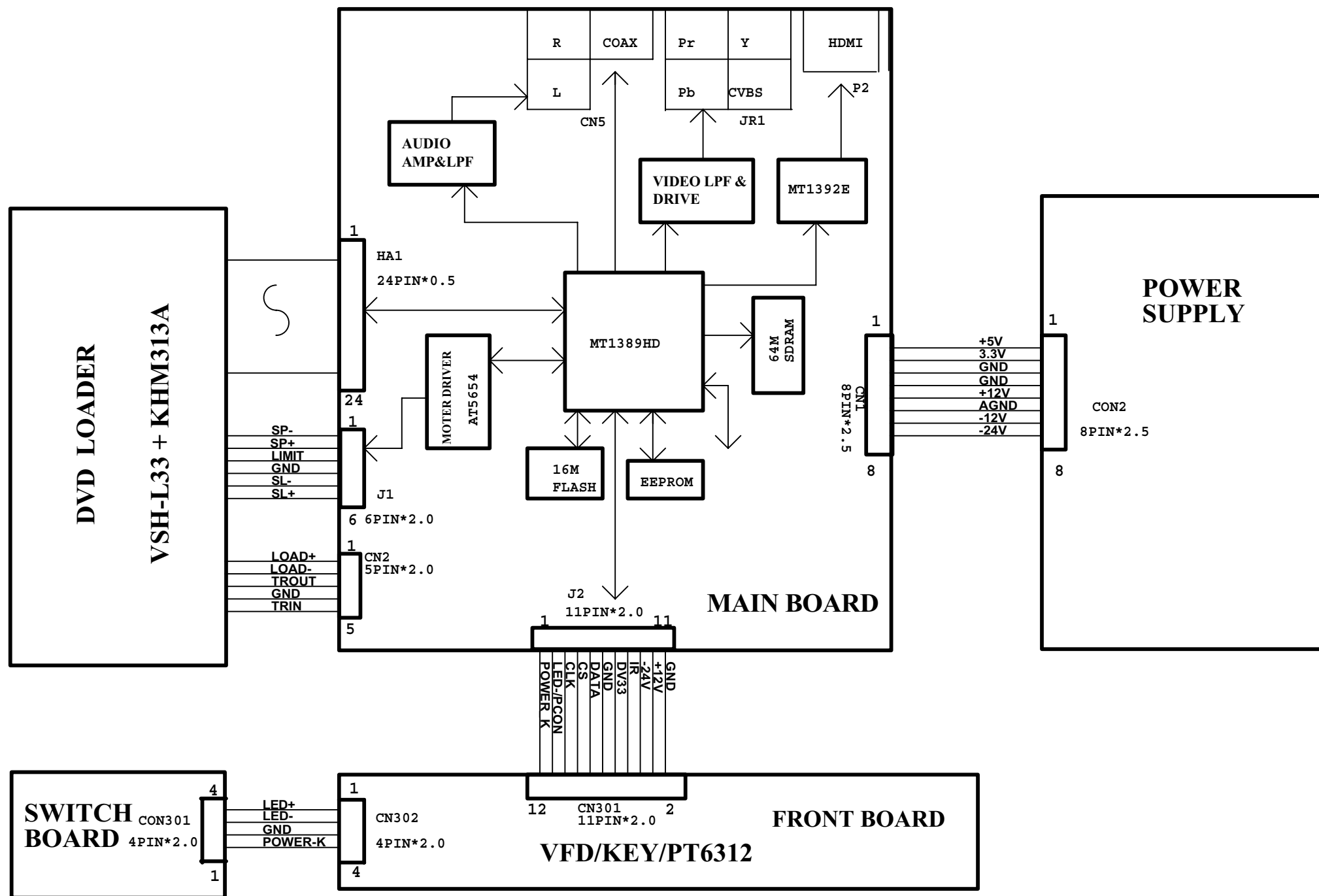
- 1) Power on the set and insert the prepared Upgrade CDR.
- 2) The set will starts reading disc & response with the following display TV screen:
Upgrade File DETECTED
Upgrade?
Press Play TO START.
- 3) Press <OK> button to confirm, then screen will display :
Files coping...
UPGRADING...
- 4) The upgraded tray will automatically open when files coping complete, then take out the disc.
- 5) About 1 minute later, the trace will automatically close when upgrading complete.

C. Read out the software versions to confirm upgrading

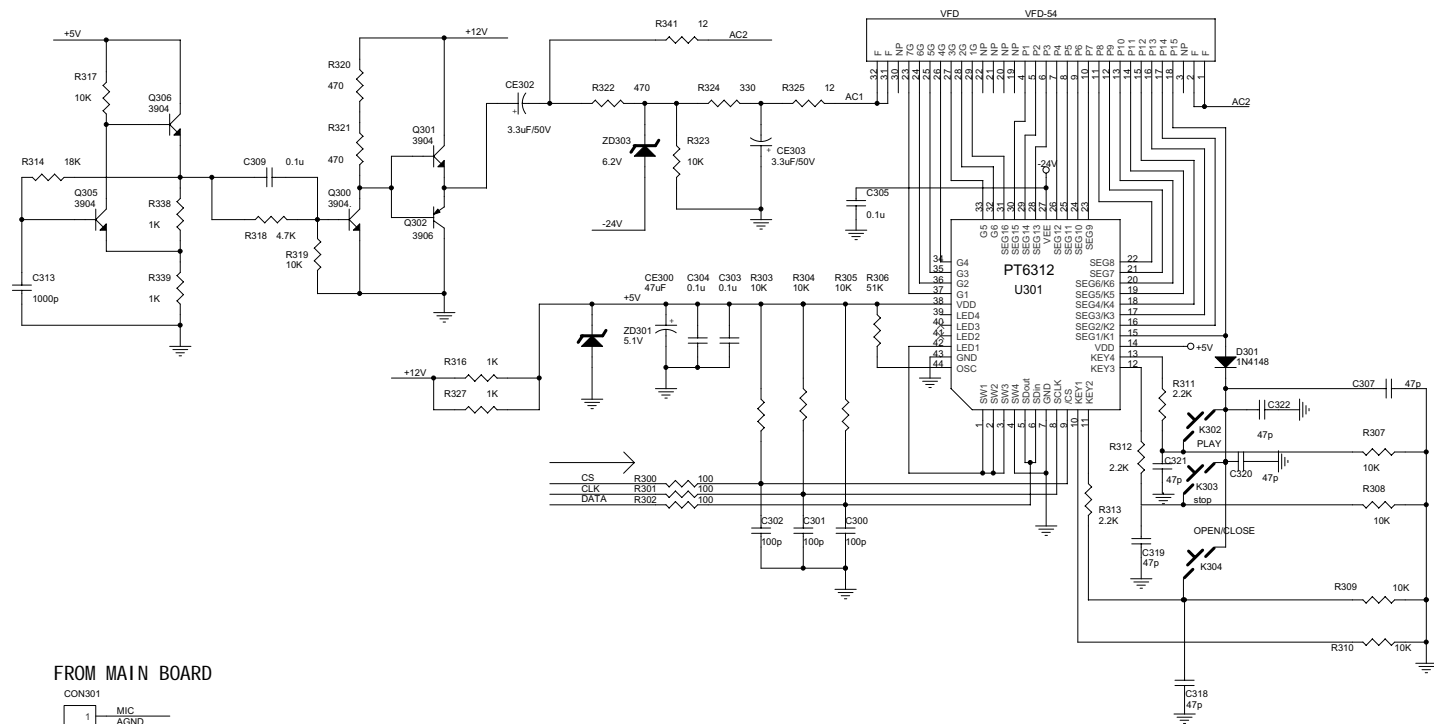
- 1) Power on the set and press <Setup> button on the remote control.
- 2) Press <1><3><7><9> button.
The software version and other information are display on the TV screen as follows:
Version XX.XX.XX.XX (Main version)
SUB-VER XX.XX.XX.XX (software version of application software)
8032 XX.XX.XX.XX
Servo XX.XX.XX.XX (software version of Servo)
RISC XX.XX.XX.XX
DSP XX.XX.XX.XX
Region Code XX

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

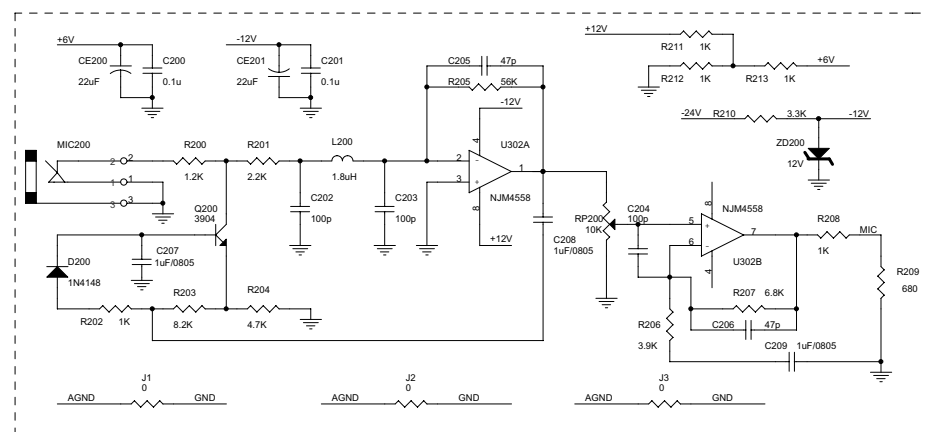
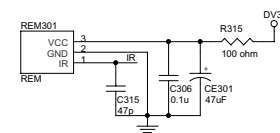
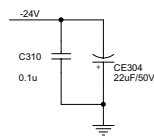
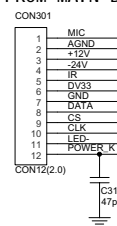
DVP3960/37 WIRING DIAGRAM



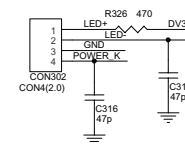
DVP3960/37 Front Board Electrical Diagram



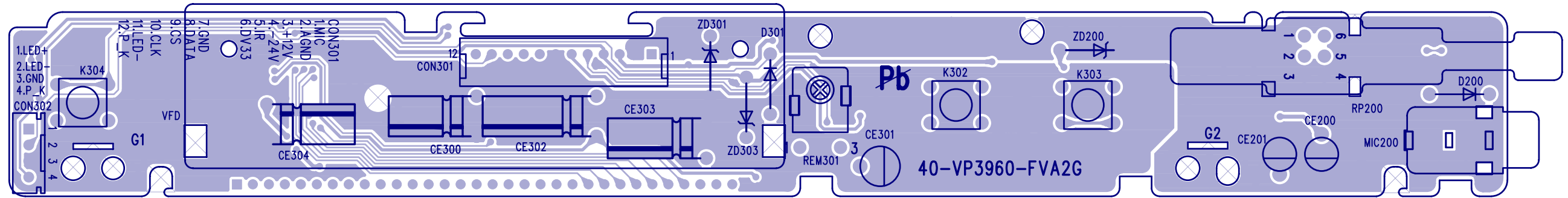
FROM MAIN BOARD



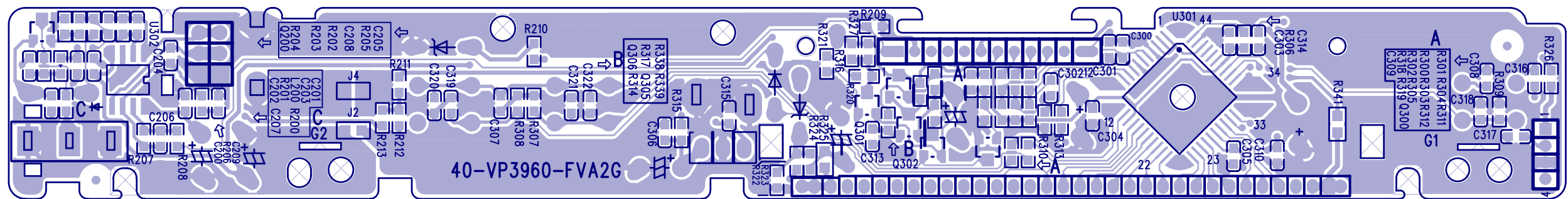
When have no karaoke, this inside of circle is "OPEN"



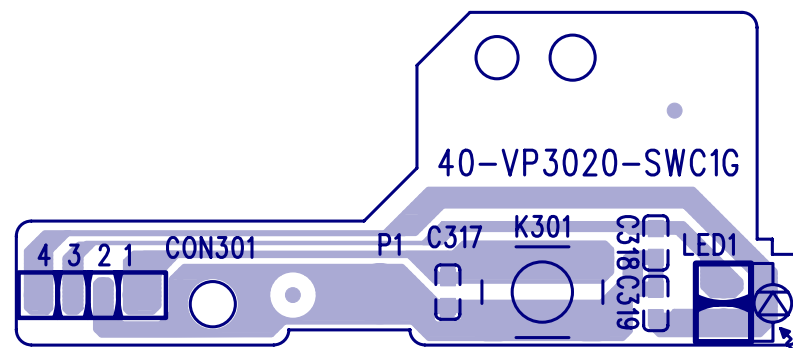
Front Board Print-layout (Top Side) for DVP3960/37



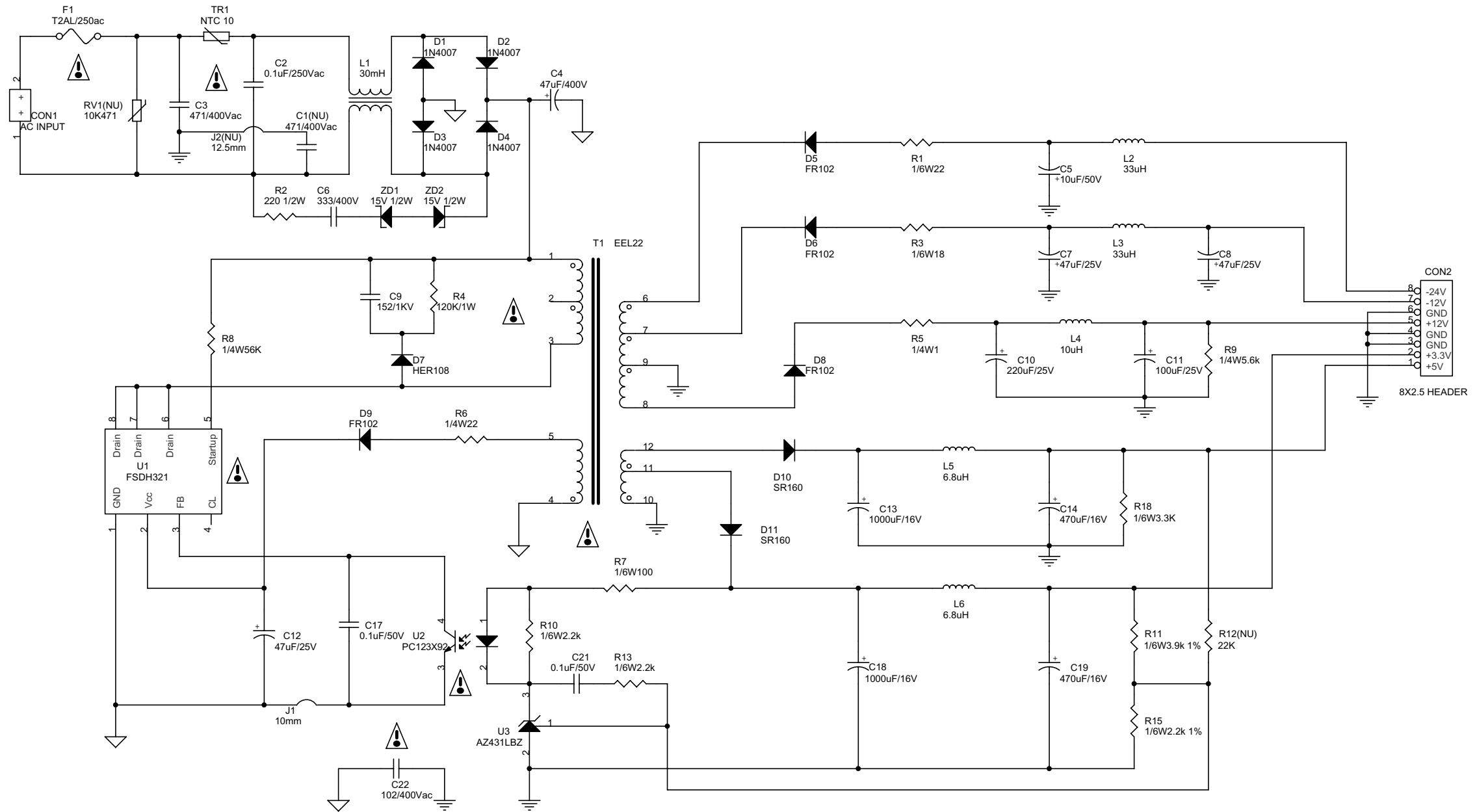
Front Board Print-layout (Bottom Side) for DVP3960/37




Switch Board Print-layout (Top Side) for DVP3960/37

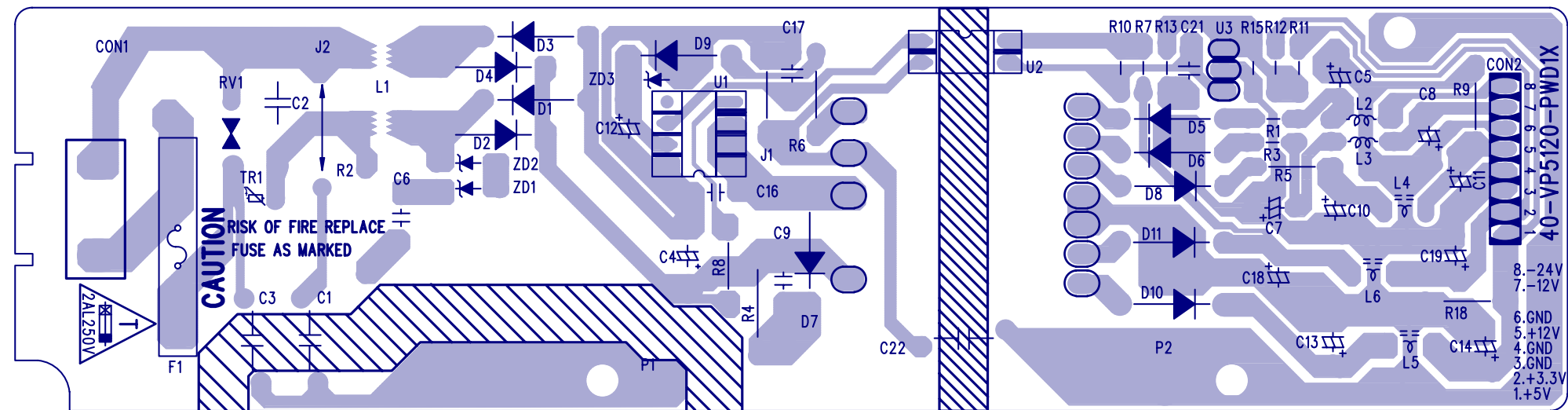


DVP3960/37 Power Board Electrical Diagram



*** 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 DVP3960/37



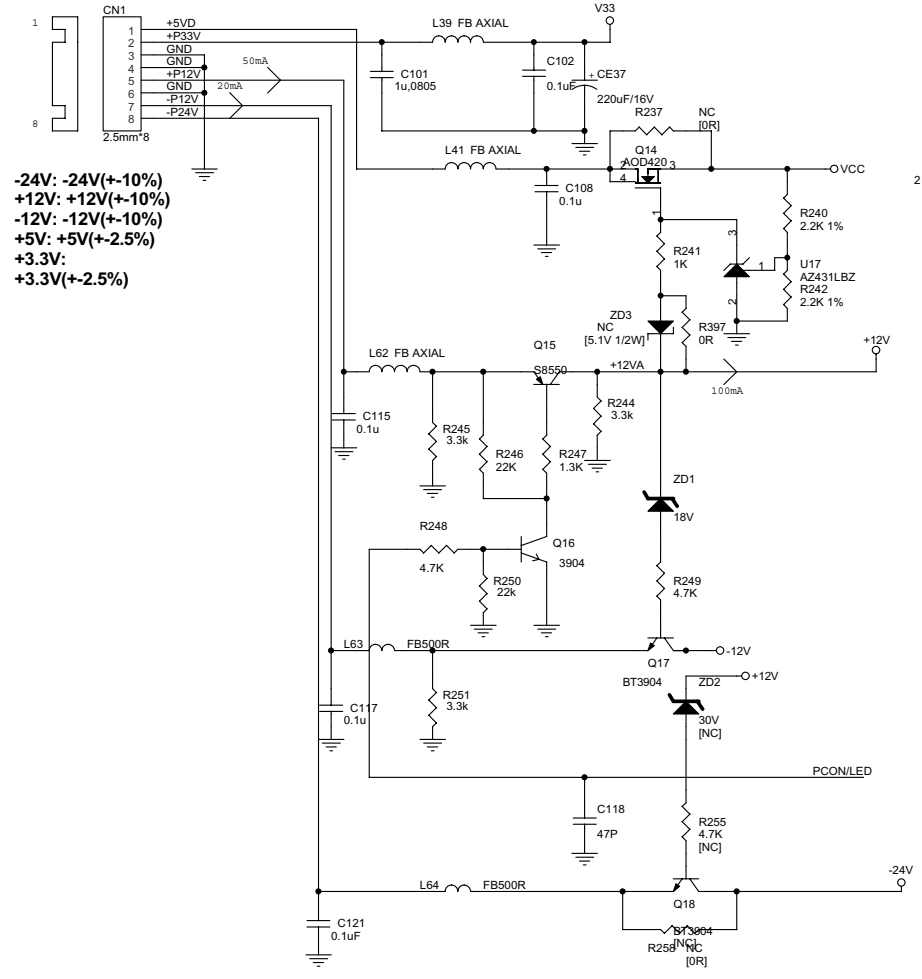
DVP3960/37 Main Board Electrical Diagram - POWER&CONNECTOR

MT1389HD (LQFP256) DVD MP Board for SANYO HD62/SONY
KHM313AAAPUH w/MT1392 HDMI
MD0278

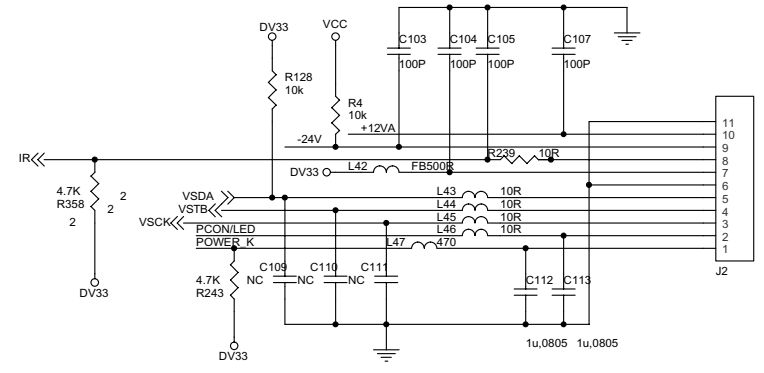
- C102 3D
- C124 1B
- CB6 2A
- CB8 3A
- C121 4B
- C108 3D
- C115 3C
- C117 4C
- R397 3D
- R247 3C
- R264 1A
- R263 2A
- R241 3D
- D3 4B
- R399 4B
- C101 3D
- CB81 2A
- C112 1D
- C113 1D
- CB85 4B
- CN2 2C
- R240 3D
- R242 3D
- CB1 4D
- R244 3C
- R245 3C
- R243 2D
- R358 2D
- R248 3C
- R249 3C
- R255 3B
- R253 1C
- R252 1C
- L43 1D
- L44 1D
- L45 1D
- L46 1D
- R239 1D
- R4 2D
- R6 4B
- R128 2D
- R400 4B
- ZD1 3C
- R183 3A
- R246 3C
- R250 3C
- ZD2 3C
- C118 3B
- CE12 3A
- C103 1D
- C104 1D
- C105 1D
- C107 1D
- CE10 4B
- R260 1B
- R259 2B
- CE37 3D
- CB8 3A
- R261 2A
- R262 1A
- C125 2A
- C126 1A
- L47 1D
- Q16 3C
- Q19 1B
- Q20 1B
- Q22 1A
- Q21 2A
- X13 3D
- Q14 3D
- U17 3D
- Q40 4B
- Q17 3C
- Q18 3B
- J2 1D
- L4 4A
- L5 4A
- L42 1D
- L58 3B
- L63 3C
- L64 3B
- L65 4A
- L39 3D
- L41 3D
- L62 3C
- U1 3B
- CB86 4B
- C109 2D
- C110 2D
- C111 1D
- ZD3 3D
- R182 3A
- R237 3D
- R258 3B
- Q15 3C

TO POWER BOARD

-24V: -24V(+10%)
+12V: +12V(+10%)
-12V: -12V(+10%)
+5V: +5V(+2.5%)
+3.3V: +3.3V(+2.5%)

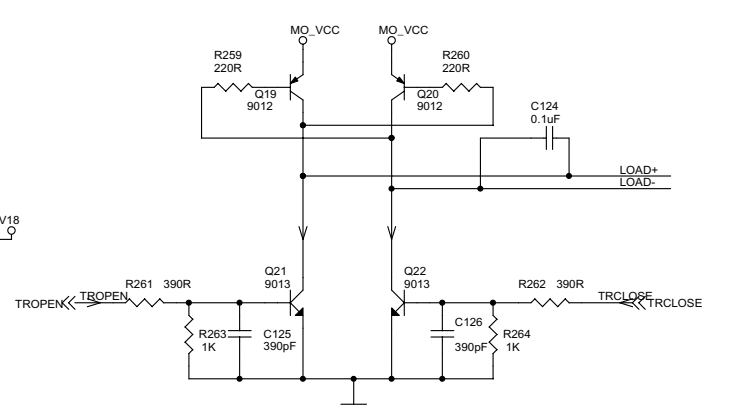
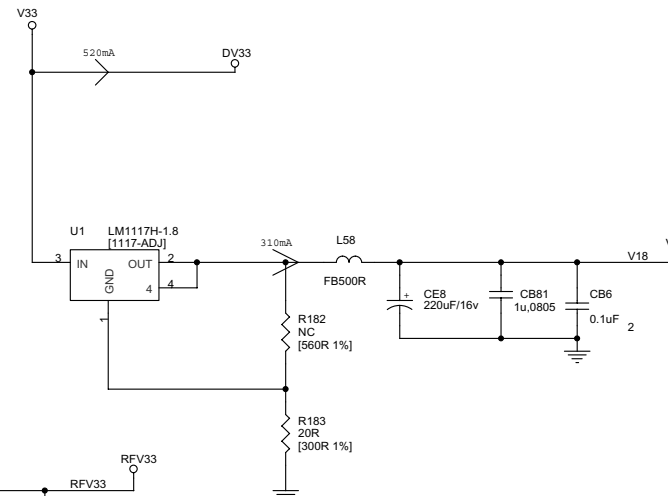
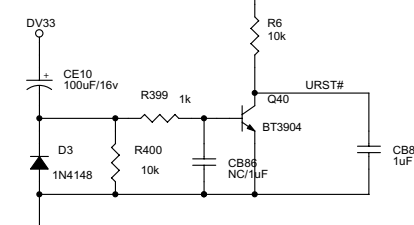


TO FRONT PANEL

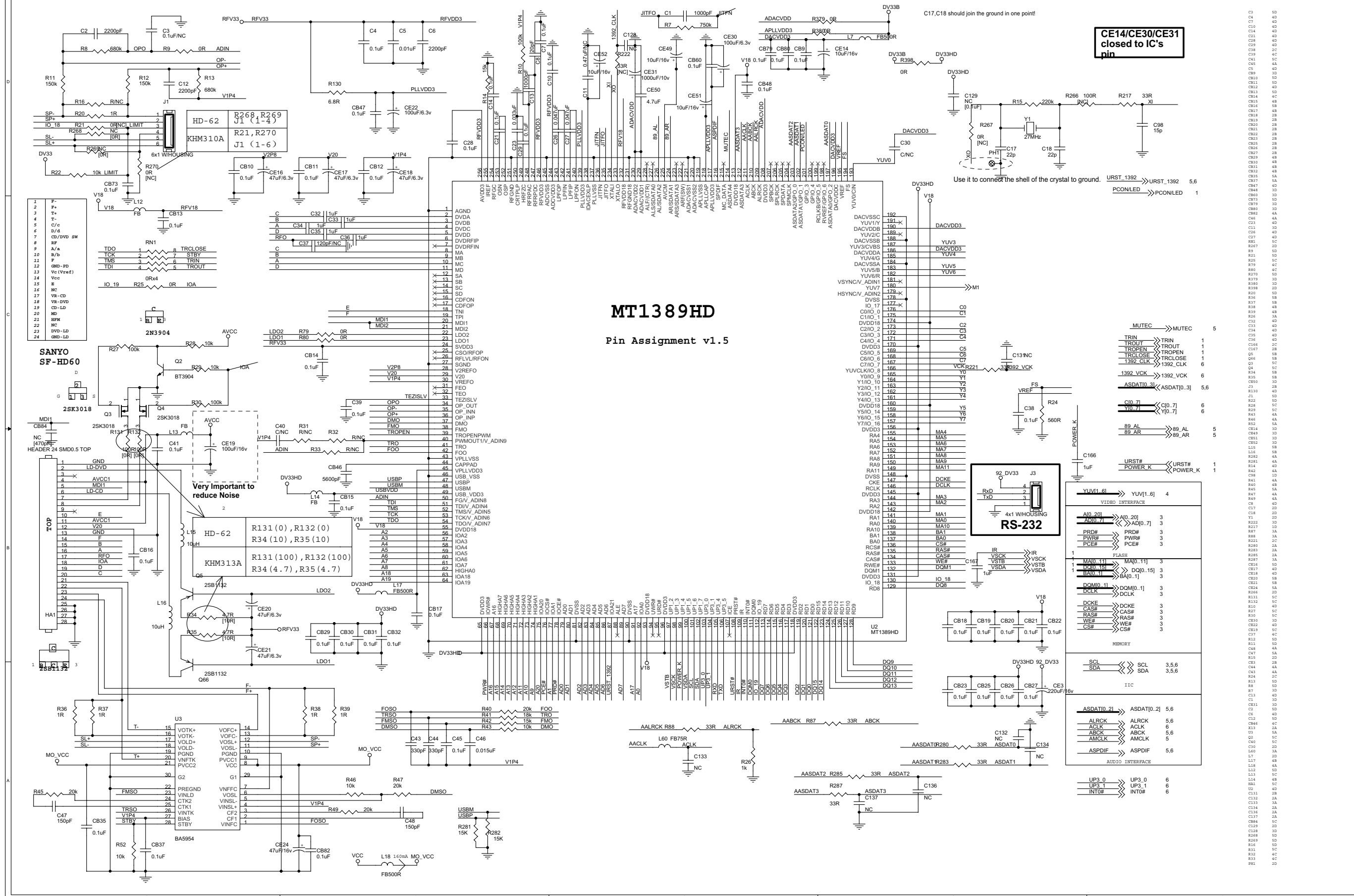


- IR <> IR 2
- VSCCK <> VSCCK 2
- VSTB <> VSTB 2
- VSDA <> VSDA 2
- URST# <> URST# 2
- PCON/LED <> PCON/LED 2
- POWER_K <> POWER_K 2

RESET Circuit



DVP3960/37 Main Board Electrical Diagram - MT1389HD&Frontend



MT1389HD

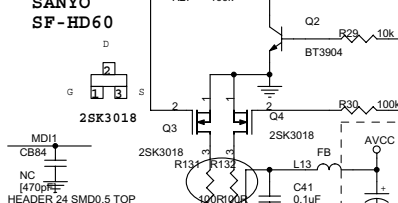
Pin Assignment v1.5

CE14/CE30/CE31 closed to IC's pin

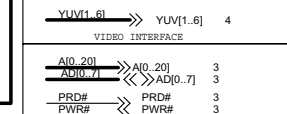
C17,C18 should join the ground in one point!

Use it to connect the shell of the crystal to ground.

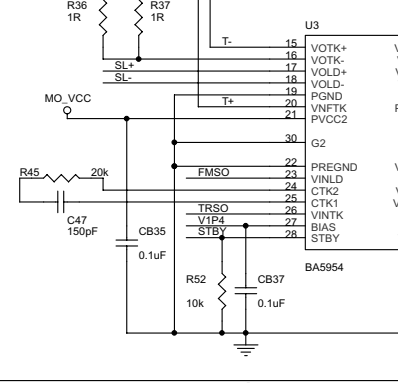
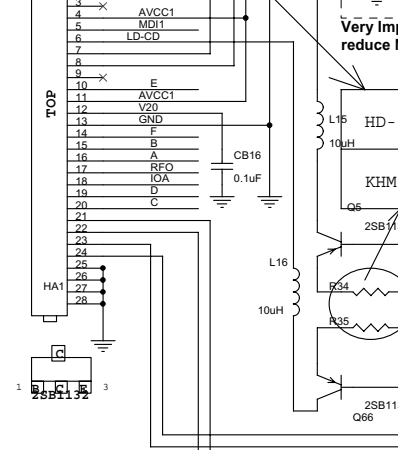
1	F+
2	F-
3	T+
4	T-
5	D
6	D/V
7	CD/DVD SW
8	RF
9	N/A
10	B/B
11	F
12	DM-DP
13	Vc (Vref)
14	Vcc
15	NC
16	VR-CD
17	VR-DVD
18	CD-LD
19	MD
20	DVD-LD
21	DM-LD
22	DM-LD
23	DM-LD
24	DM-LD



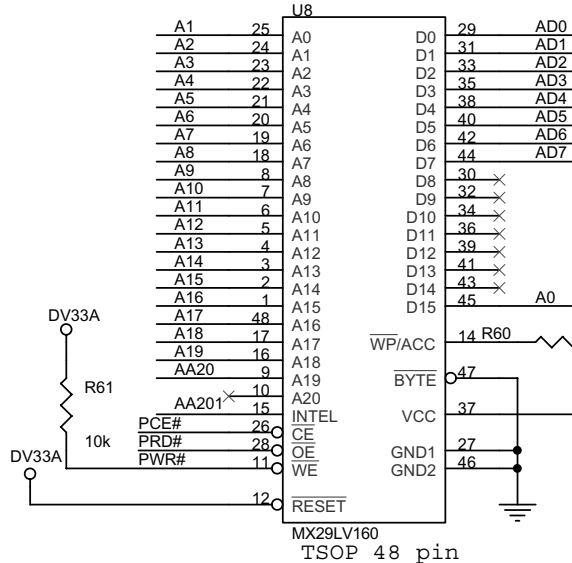
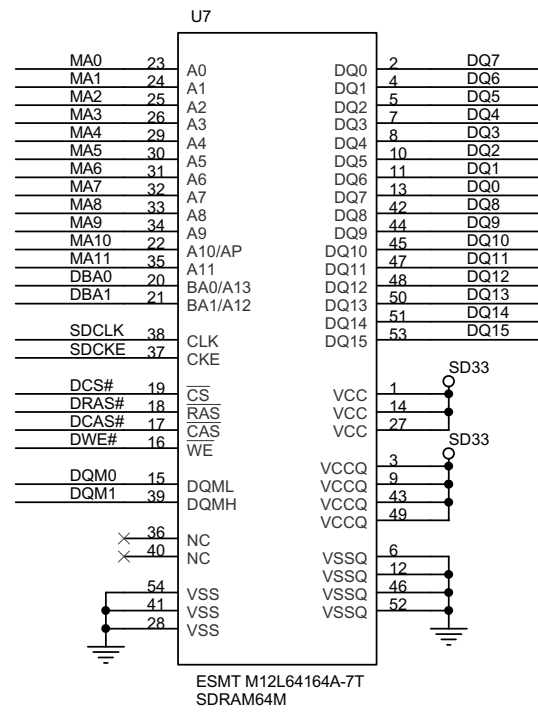
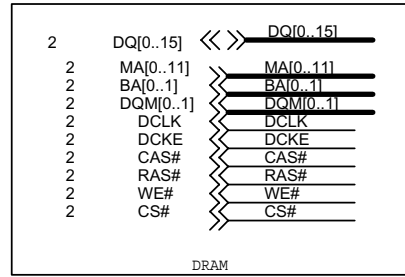
192	DACVSSC	192	YUV0
191	YUV1Y	191	DACVDD3
190	DACVDDB	190	YUV3
189	YUV2/C	189	DACVDD3
188	DACVSSB	188	YUV4
187	YUV3/CBS	187	YUV5
186	DACVDDA	186	YUV6
185	YUV4/G	185	YUV6
184	DACVSSA	184	YUV6
183	YUV5/B	183	YUV6
182	YUV6/R	182	YUV6
181	YUV6/R	181	YUV6
180	YUV7	180	YUV6
179	HSYNCAV_ADIN2	179	YUV6
178	DVSS	178	YUV6
177	IO_17	177	YUV6
176	COIO_0	176	YUV6
175	CTIO_1	175	YUV6
174	DVDD18	174	YUV6
173	C2IO_2	173	YUV6
172	C3IO_3	172	YUV6
171	CAIO_4	171	YUV6
170	DVDD3	170	YUV6
169	CSIO_5	169	YUV6
168	CSIO_6	168	YUV6
167	YUVCLKIO_8	167	YUV6
166	YIO_9	166	YUV6
165	Y1IO_10	165	YUV6
164	Y2IO_11	164	YUV6
163	Y3IO_12	163	YUV6
162	Y4IO_13	162	YUV6
161	Y5IO_14	161	YUV6
160	Y6IO_15	160	YUV6
159	Y7IO_16	159	YUV6
158	DVDD3	158	YUV6
157	DVDD3	157	YUV6
156	DVDD3	156	YUV6
155	DVDD3	155	YUV6
154	DVDD3	154	YUV6
153	DVDD3	153	YUV6
152	DVDD3	152	YUV6
151	DVDD3	151	YUV6
150	DVDD3	150	YUV6
149	DVDD3	149	YUV6
148	DVDD3	148	YUV6
147	DVDD3	147	YUV6
146	DVDD3	146	YUV6
145	DVDD3	145	YUV6
144	DVDD3	144	YUV6
143	DVDD3	143	YUV6
142	DVDD3	142	YUV6
141	DVDD3	141	YUV6
140	DVDD3	140	YUV6
139	DVDD3	139	YUV6
138	DVDD3	138	YUV6
137	DVDD3	137	YUV6
136	DVDD3	136	YUV6
135	DVDD3	135	YUV6
134	DVDD3	134	YUV6
133	DVDD3	133	YUV6
132	DVDD3	132	YUV6
131	DVDD3	131	YUV6
130	DVDD3	130	YUV6
129	DVDD3	129	YUV6



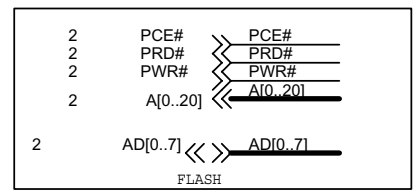
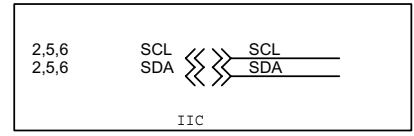
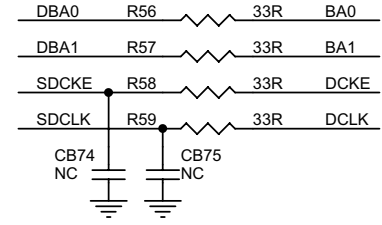
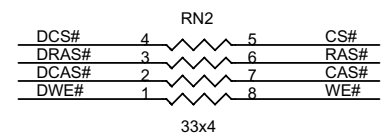
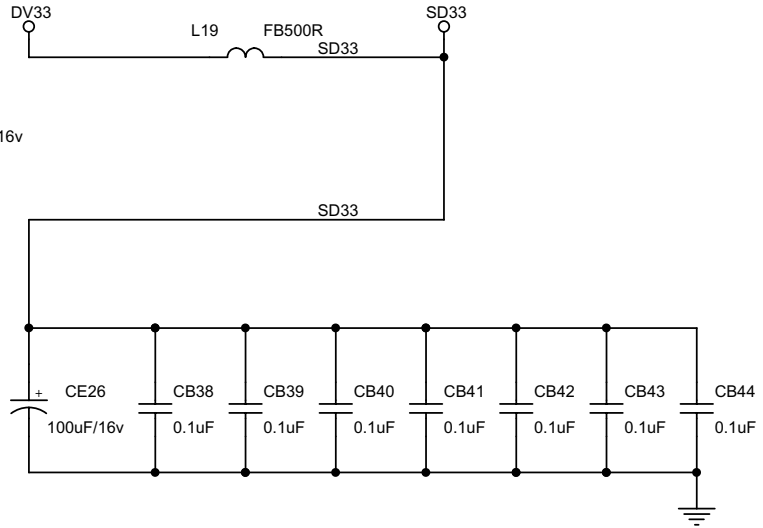
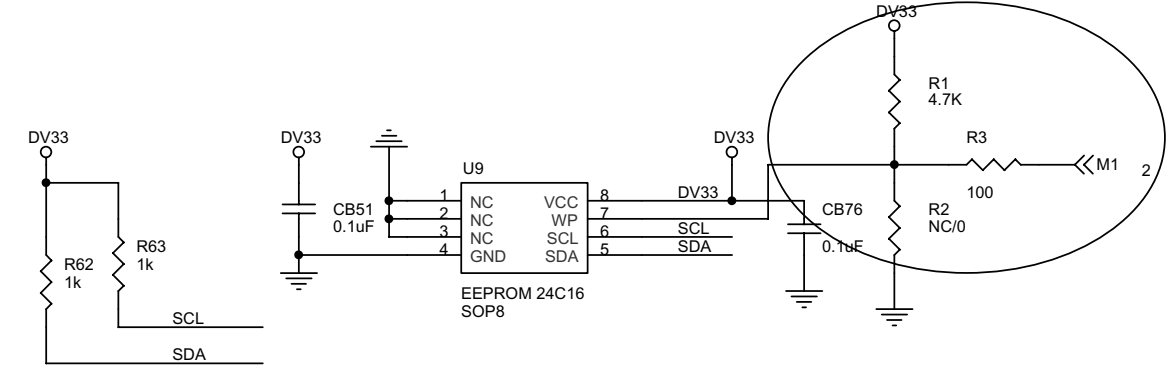
YUV1[6]	YUV[1..6]	4
AIO_20	AIO_20	3
ADIO_7	ADIO_7	3
PRD#	PWR#	3
PWR#	PWR#	3
PCE#	PCE#	3
MA0[1]	MA0[1..1]	3
DO0[15]	DO0[1..15]	3
BA0[1]	BA0[1..1]	3
DQM0[1]	DQM0[1..1]	3
DCLK	DCLK	3
DCKE	DCKE	3
CAS#	CAS#	3
RAS#	RAS#	3
WE#	WE#	3
CS#	CS#	3
SCL	SCL	3,5,6
SDA	SDA	3,5,6
ASDAT0_21	ASDAT0_21	5,6
ALRCK	ALRCK	5,6
ACLK	ACLK	6
ABCK	ABCK	5,6
AMCLK	AMCLK	5
ASPDIF	ASPDIF	5,6
UP3_0	UP3_0	6
UP3_1	UP3_1	6
INT0#	INT0#	6



DVP3960/37 Main Board Electrical Diagram - SDRAM & FLASH

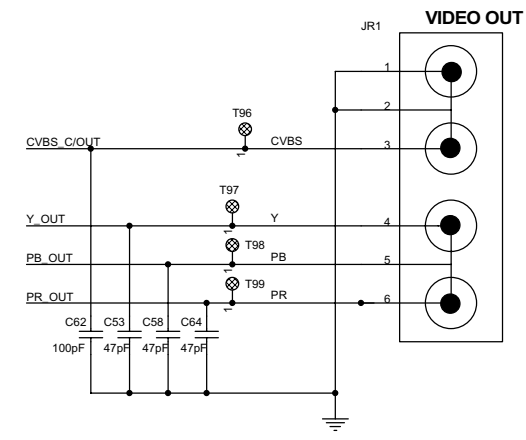
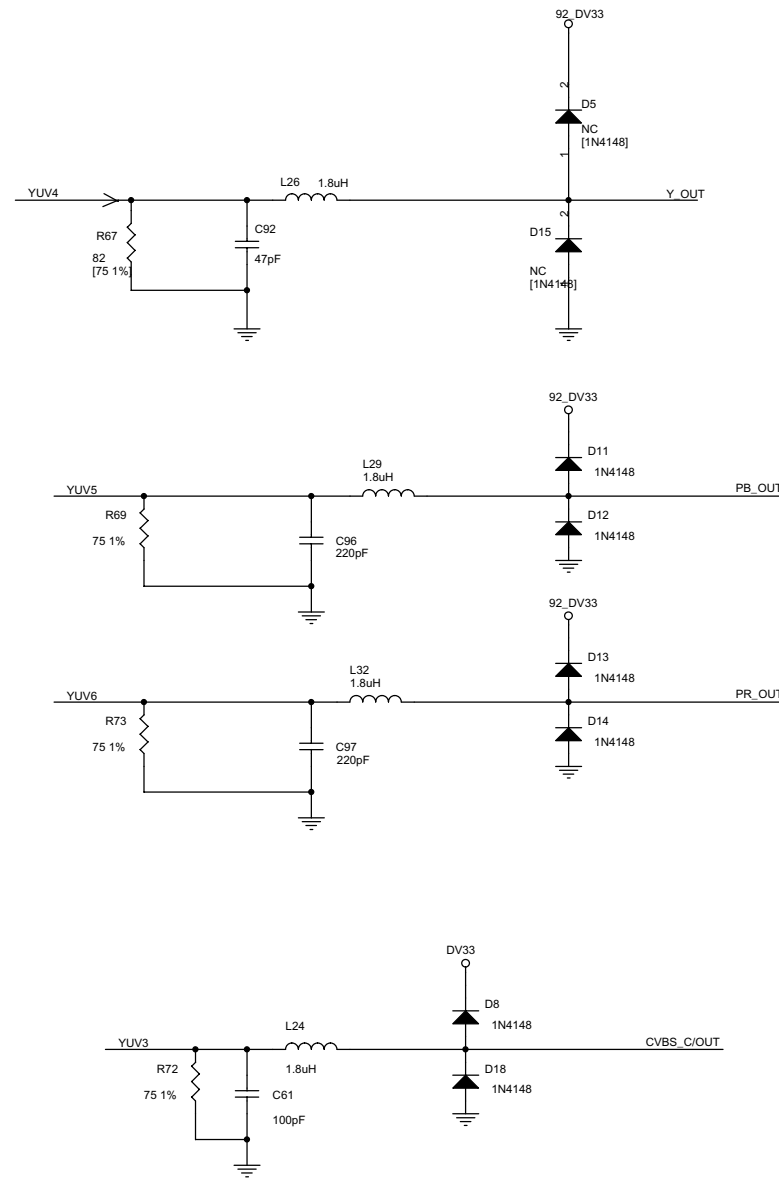


INTEL FLASH: R289=0 ohm, R54=OPEN
 OPEN
 AMD /SST FLASH: R54=0 ohm, R289=OPEN



- CB76 2B
- CB52 3C
- CB38 3C
- CB39 3C
- CB40 3C
- CB41 2C
- CB42 2C
- CB43 2C
- CB44 2C
- CB51 5A
- R60 3C
- R54 4D
- R62 5A
- R63 5A
- R1 3B
- R61 4C
- R56 2C
- R57 2C
- R58 2C
- R59 2B
- RN2 2C
- CE25 3D
- CE26 3D
- R3 3B
- X13 2A
- U9 4B
- U7 5D
- L19 3D
- L59 3D
- U8 4D
- R2 3A
- CB75 3B
- CB74 3B
- R289 4D

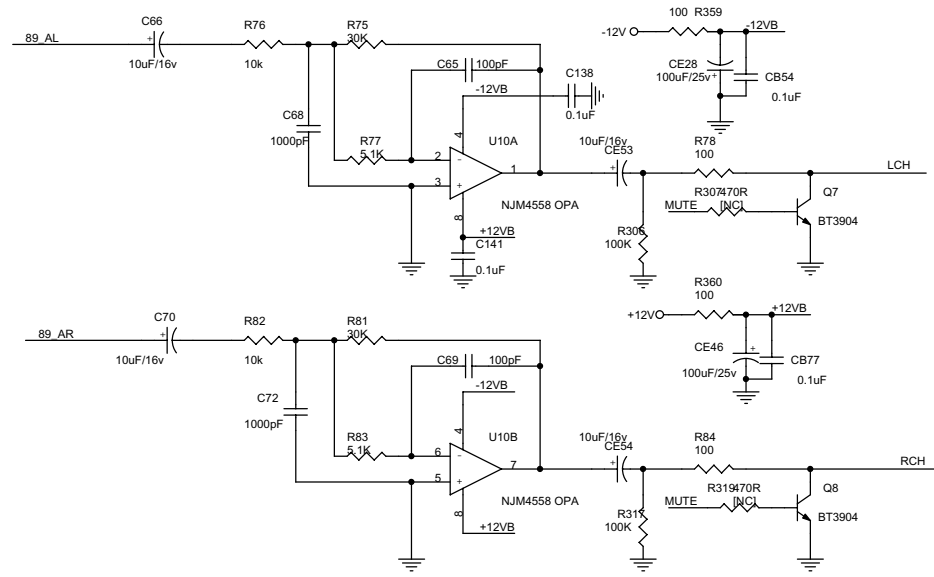
DVP3960/37 Main Board Electrical Diagram - VIDEO OUT



L24	4B
L26	4D
L29	4C
L32	4C
D8	4B
D11	4C
D12	4C
D13	4C
D14	4C
D18	4C
C53	3D
C58	3D
C64	3D
C92	4D
R69	5C
R72	4B
R73	5C
R67	5D
C62	3D
C61	4B
C96	4C
C97	4B
X13	2B
D5	4D
D15	4D
JR1	2D

YUV[1..6] << YUV[1..6] 2

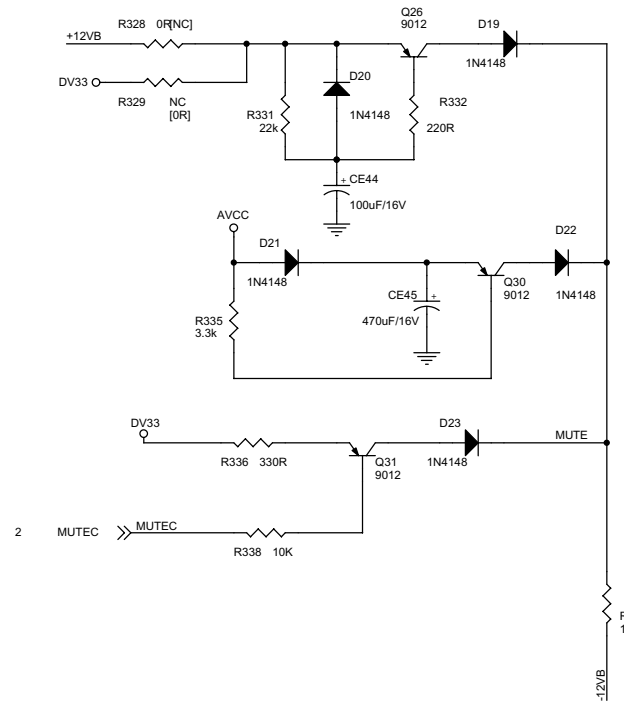
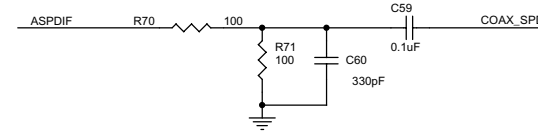
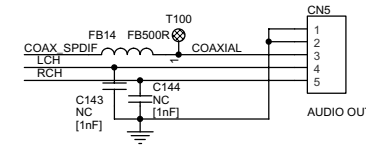
DVP3960/37 Main Board Electrical Diagram - AUDIO OUT



ASDATI0_21	ASDATI[0..2]	2,6
ALRCK	ALRCK	2,6
ABCK	ABCK	2,6
AMCLK	AMCLK	2
ASPDIF	ASPDIF	2,6
URST_1392	URST_1392	2,6

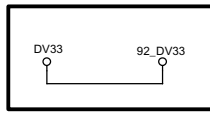
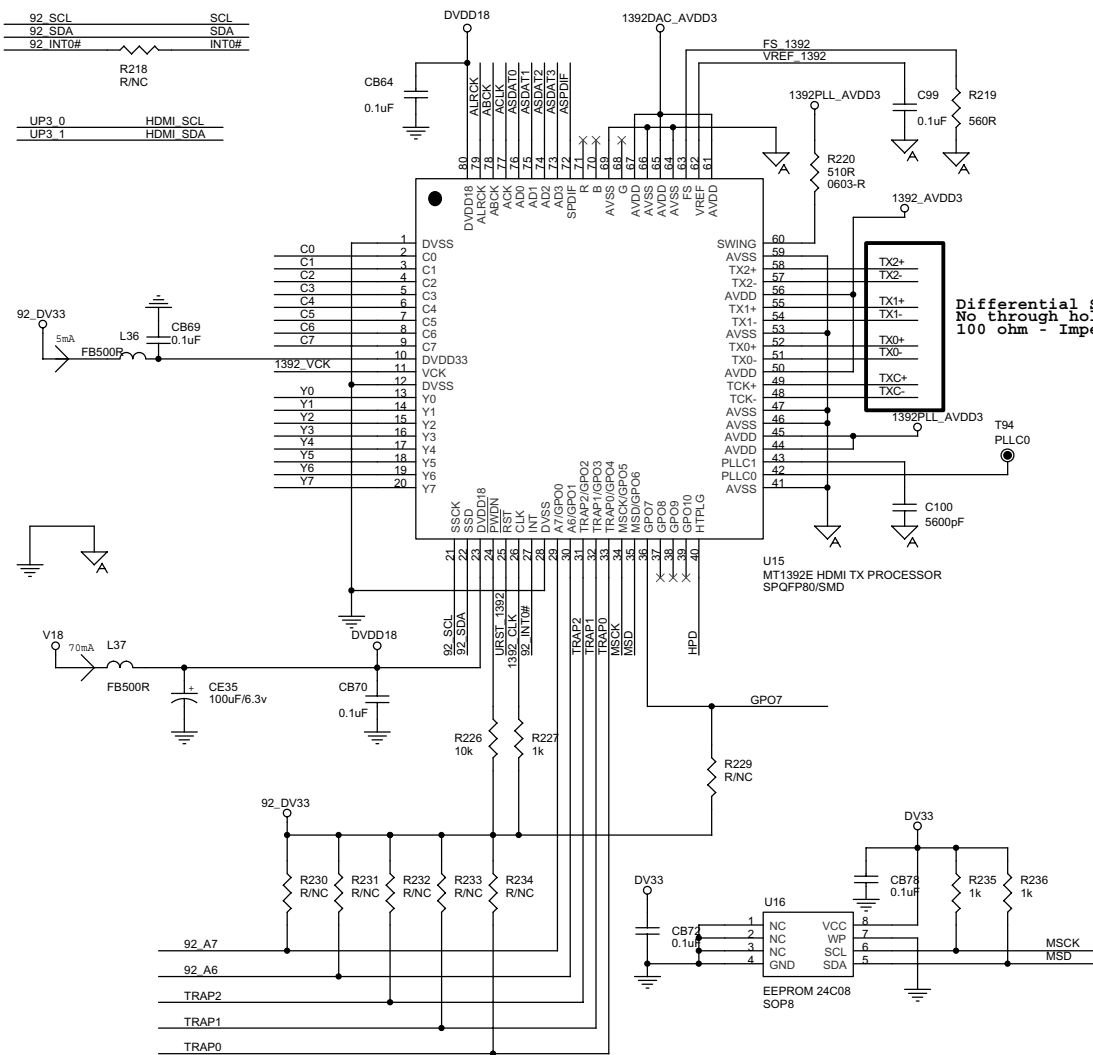
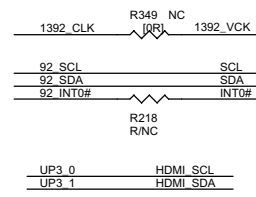
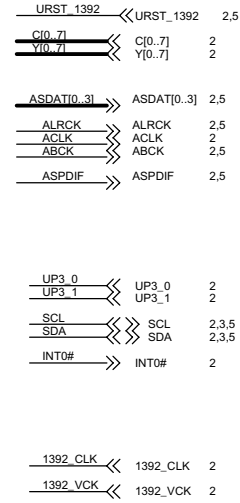
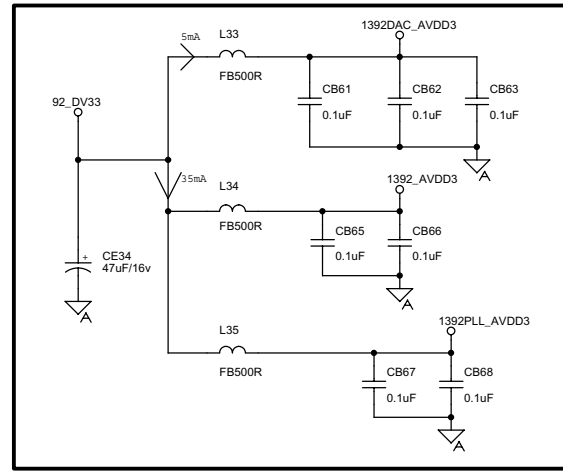
2	89_AL	89_AL
2	89_AR	89_AR

C59	1	B
CB54	3	D
CB77	3	C
C141	3	0
C138	3	D
R328	4	B
D19	3	B
D20	3	B
D21	3	B
D22	3	B
D23	3	B
R335	3	B
R81	3	C
R75	3	D
R338	3	B
CE54	3	C
CE53	3	D
R331	3	B
R306	3	D
R317	3	C
R342	3	B
CE44	3	B
CE46	3	C
CE28	3	D
R70	2	B
R71	1	B
R78	3	D
R84	3	C
R359	3	D
R360	3	C
R332	3	B
R336	3	B
C60	1	B
R83	3	C
R77	3	D
R319	3	C
R307	3	D
CE45	3	B
CE9	3	C
CE5	3	D
C68	4	D
C72	4	C
Q26	3	B
Q30	3	B
Q31	3	B
X13	2	B
CNS	1	C
Q7	3	D
Q8	3	C
FB14	2	C
C70	4	C
C66	4	D
C144	2	C
C143	2	C
R82	4	C
R76	4	D
R329	4	B
U10B	3	C
U10A	3	D
T100	2	C



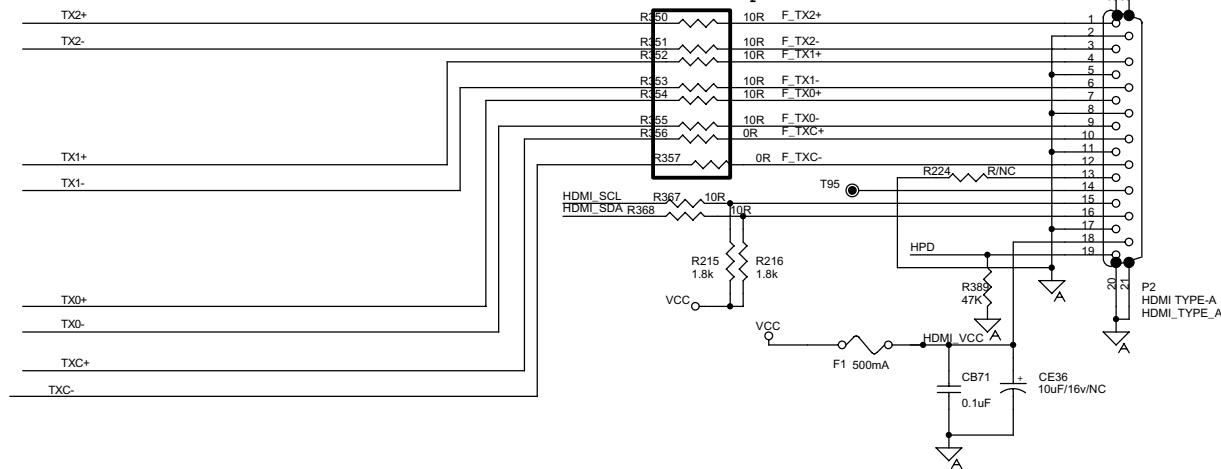
mute circuit

DVP3960/37 Main Board Electrical Diagram - HDMI OUT MT1392



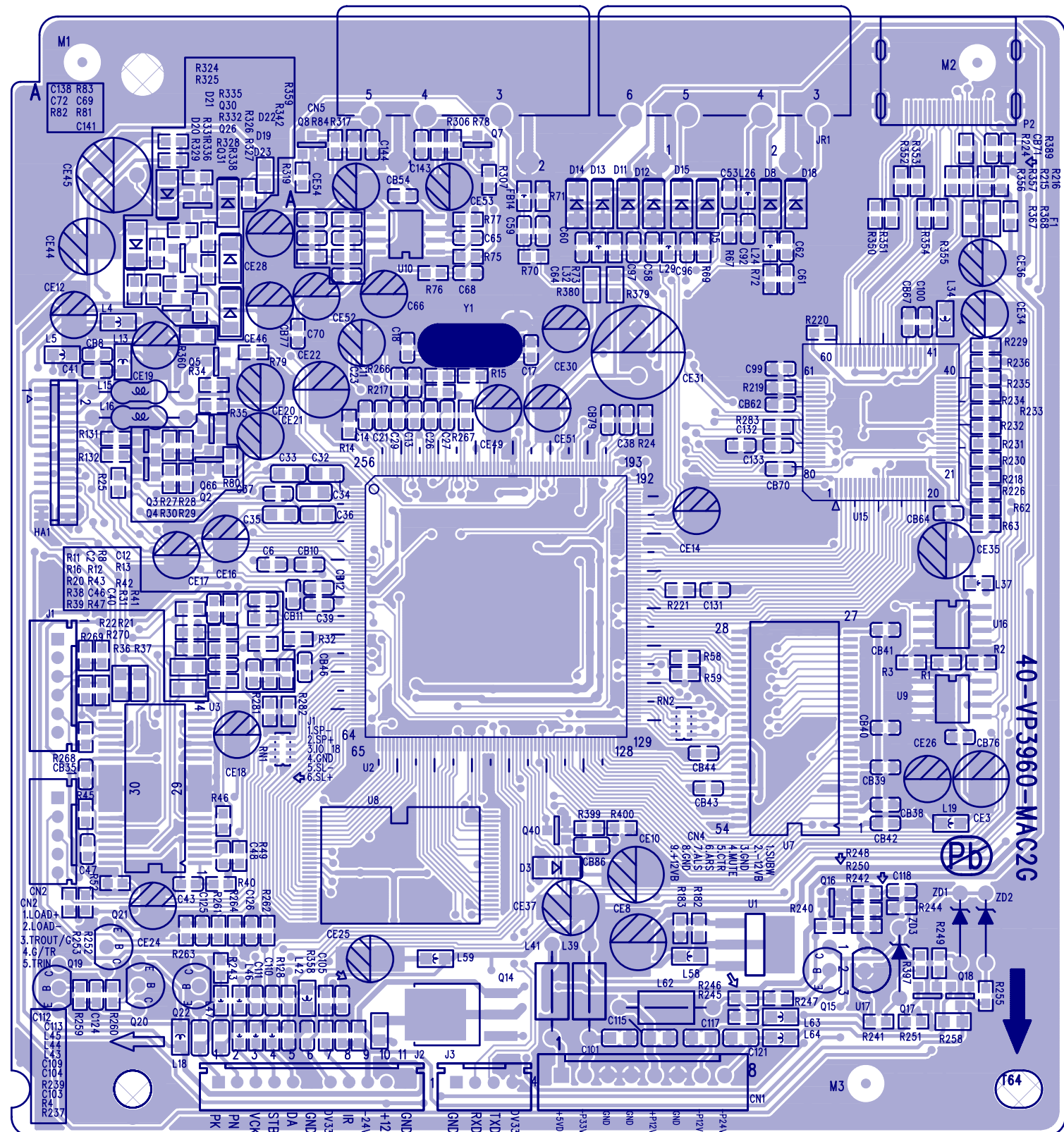
Differential Signal !
No through hole & shorter is better !
100 ohm - Impedance

Differential Signal !
No through hole & shorter is better !
100 ohm - Impedance

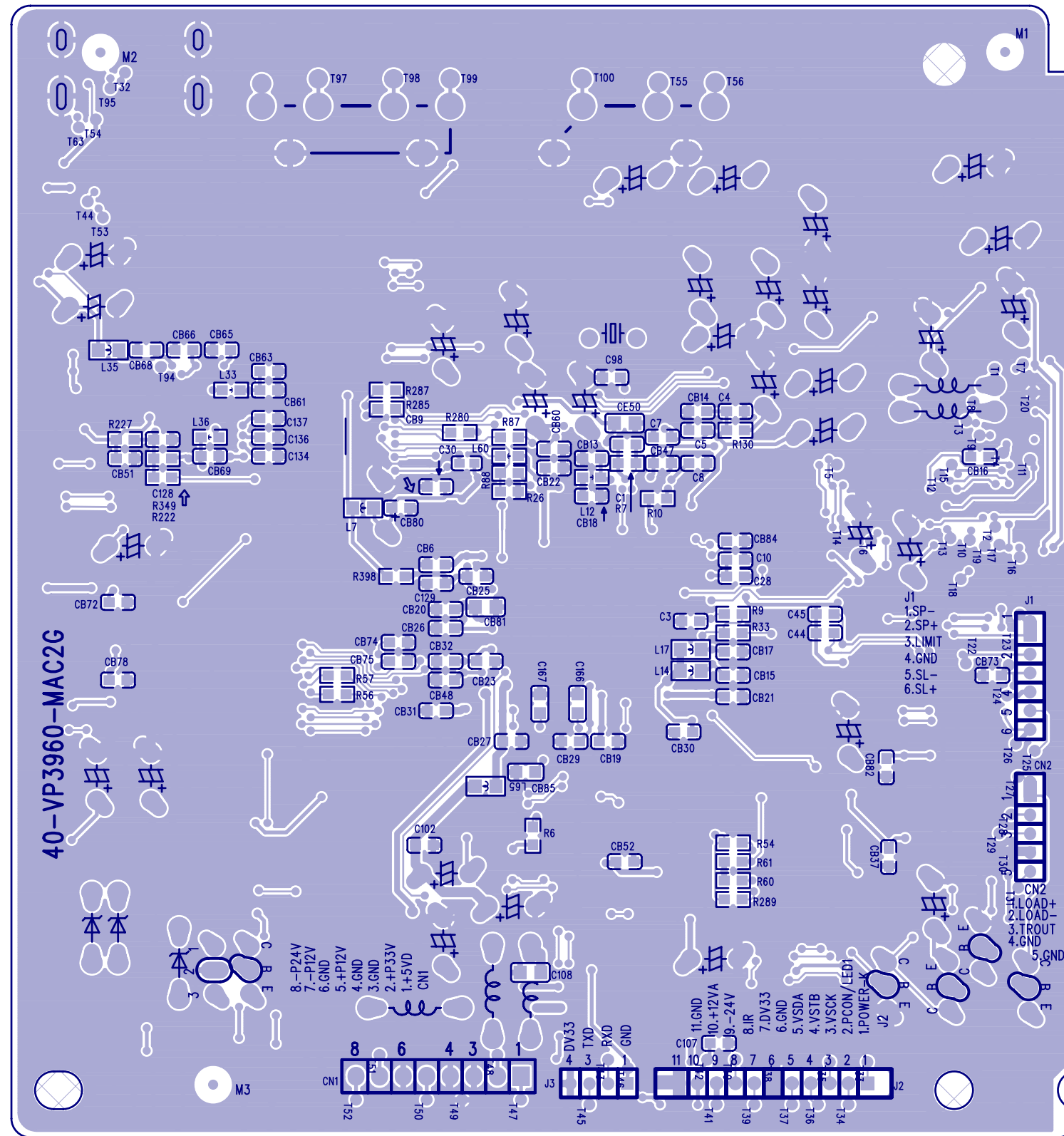


- C99 4 C
- CB61 5 D
- CB62 5 D
- CB63 4 D
- CB64 5 C
- CB65 5 D
- CB66 5 D
- CB67 5 D
- CB68 4 D
- CB69 5 B
- CB70 5 B
- CB71 1 B
- CB72 4 B
- CB78 4 B
- R356 2 B
- R357 2 B
- R215 2 B
- R216 2 B
- R227 4 B
- R235 4 B
- R236 3 B
- R350 2 B
- R351 2 B
- R352 2 B
- R353 2 B
- R354 2 B
- R355 2 B
- R367 2 B
- R368 2 B
- R226 4 B
- CE36 1 B
- R234 1 B
- R359 1 B
- CE34 5 D
- CE35 5 B
- F1 1 B
- R220 4 C
- R219 4 C
- C100 4 B
- X13 2 B
- U16 4 B
- L33 5 D
- L34 5 D
- L35 5 D
- L36 5 B
- L37 5 B
- P2 1 B
- U15 5 C
- R349 5 C
- T94 3 B
- R218 5 C
- R224 1 B
- R229 4 B
- R230 5 B
- R231 5 B
- R232 5 B
- R233 5 B
- R234 4 B
- T95 1 B

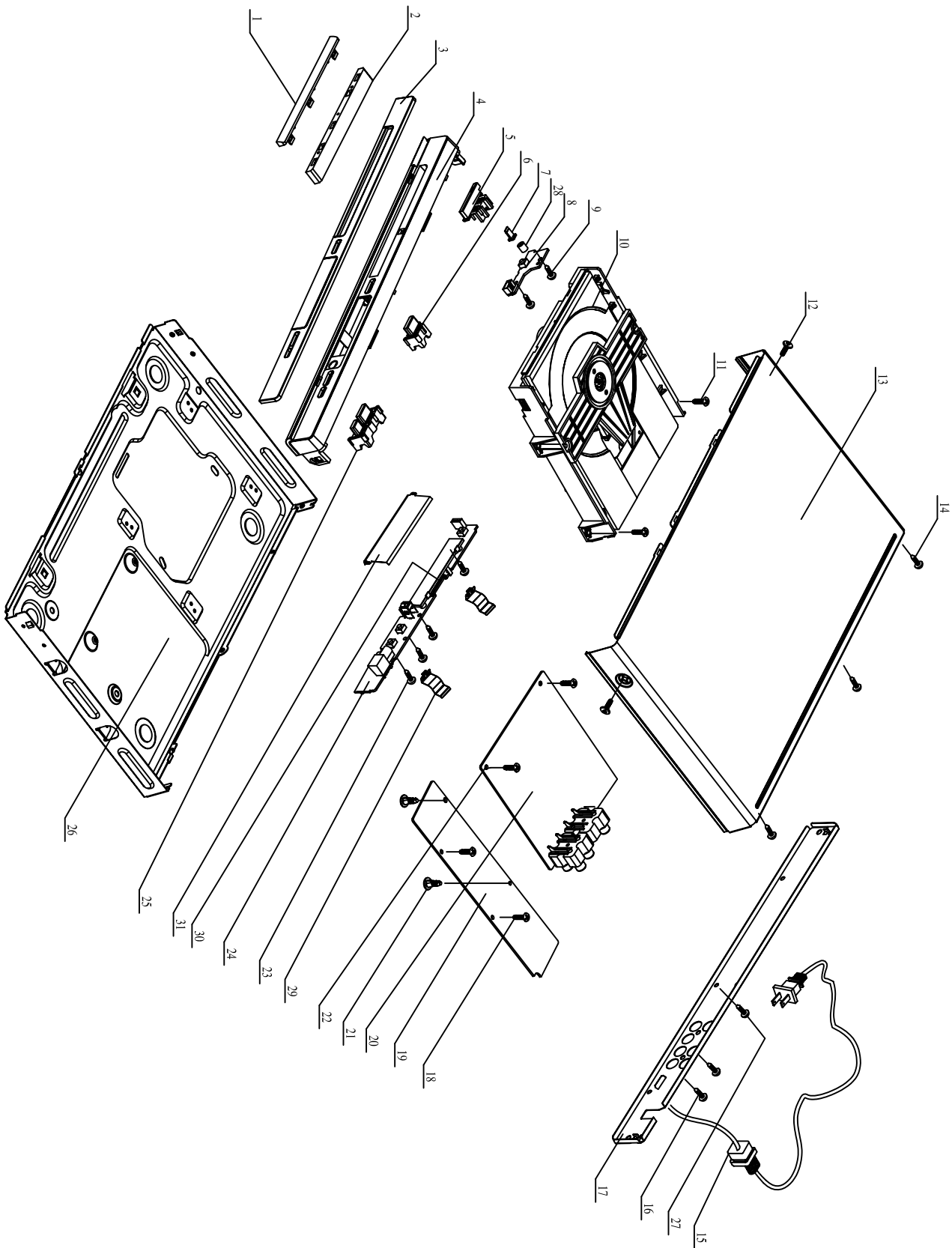
Main Board Print-layout (Top Side) for DVP3960/37



Main Board Print-layout (Bottom Side) for DVP3960/37



DVP3960/37 Exploded View



Remark: Ass'y1 is the assemble component for location 1,2

Ass'y2 is the assemble component for location 3,4,5,6,25

DVP3960/37 Parts List

VC	996510001106	VIDEO CABLE 1500mm
AC	996510001107	AUDIO CABLE 1500mm WHITE/RED
RC	996500034176	REMOTE CONTROL

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

REVISION LIST

Version 1.0

* Initial release