TOSHIBA

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SERVICE MANUAL

LCD Color Television

26EL834G Ver. 1.00

Updating history

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Currently there are no updates available.
Please check back at a later time for any future
updates.
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IMPORTANT NOTICE

WARNING:

You are requested that you shall not modify or alter the information or data provided herein without prior written consent by Toshiba. Toshiba shall not be liable to anybody for any damages, losses, expenses or costs, if any, incurred in connection with or as a result of such modification or alteration.

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GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86ºF to 104ºF (30ºC to 40ºC). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

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SAFETY INSTRUCTION

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

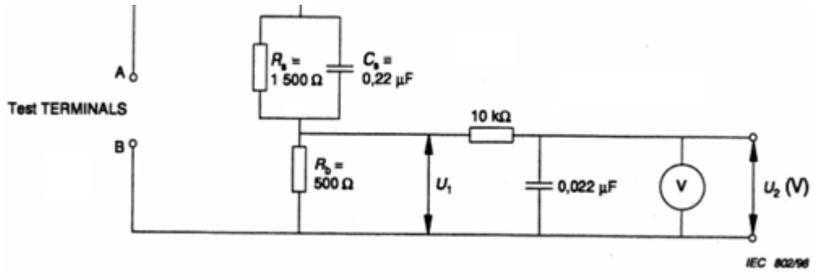
Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.
4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.
5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.
6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.
7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.
8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.
9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.
10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)
    - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.
    - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.

Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : $\geqq$ 1 MΩ
Input capacitance : $\leqq$ 200 pF
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = U_2 / 500 (peak value).

- The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 does not exceed the following value:

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.

b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

The TOUCH CURRENT expressed as voltages U_1 and U_2, does not exceed the following values:
- for a.c. : U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
- for d.c. : U_1 = 1.0 V

Note: The limit values of U_2 = 0.35 V (peak) for a.c. and U_1 = 1.0 V for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

SAFETY INSTRUCTION

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

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SAFETY INSTRUCTION

Handling the LCD Module

Safety Precaution

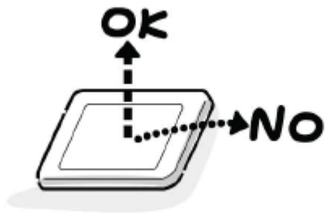
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

CAUTION: The metal edges of the LCD module are sharp, handle it with care.

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.

3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.

4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

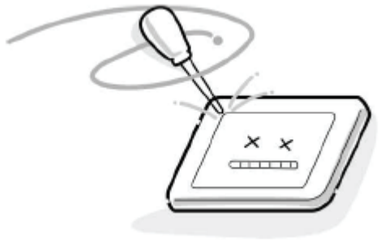
5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.

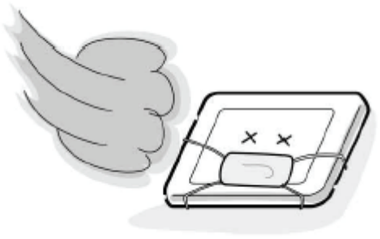
7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.



PANEL (T-CON)

PANEL_INVERTER

P201

1	24V
2	24V
3	24V
4	24V
5	24V
6	GND
7	GND
8	GND
9	GND
10	GND
11	BRIGHT_ADJ
12	INV_ON_OFF

P202

1	12V
2	12V
3	12V
4	GND
5	GND
6	GND
7	5VSB
8	5VSB
9	5VSB
10	ACD
11	BD_PS_ON
12	BRIGHT_ADJ
13	INV_ON_OFF
14	PS_ON

PSU Unit

CN1

1	+12V_NORMAL
2	+12V_NORMAL
3	+12V_NORMAL
4	GND
5	GND
6	GND
7	+5V_Standby
8	+5V_Standby
9	+5V_Standby
10	ACDetect
11	BD_POWER_ON
12	OCP_OUTPUT_PWM
13	INVERTER_ON_OFF
14	STANDBY

MAIN BOARD

CN12

1	PANEL_VCC
2	PANEL_VCC
3	PANEL_VCC
4	PANEL_VCC
5	OD_OCP_SEL
6	PANEL_VCC
7	RXE4+
8	GND
9	RXE3+
10	RXE4-
11	RXEC+
12	RXE3-
13	GND
14	RXEC-
15	RXE2+
16	GND
17	RXE1+
18	REX2-
19	REX0+
20	REX1-
21	GND
22	REX0-
23	RXO4+
24	GND
25	RXO3+
26	RXO4-
27	RXOC+
28	RXO3-
29	GND
30	RXOC-
31	RXO2+
32	GND
33	RXO1+
34	RXO2-
35	RXO0+
36	RXO1-
37	GND
38	RXO0-
39	BRIGHT_ADJ
40	OCP_OUTPUT_PWM

CN2

1	+5V_Standby
2	KEY0
3	KEY1
4	GND
5	IRIN
6	LED_ON_OFF
7	LED_TIMER
8	GND

CN11

1	SPK_R-
2	SPK_R+
3	SPK_L-
4	SPK_L+

IR_LED BORAD

CN202

1	+5V_STBY
2	GND
3	RC_IR
4	GND
5	LED_ON_OFF
6	LED_TIMER

KEY BORAD

CON1

1	KEY2
2	KEY1
3	GND
4	GND

Speaker

Speaker

TROUBLESHOOTING GUIDE

UNDER CONSTRUCTION

Note: Please check back in the future.

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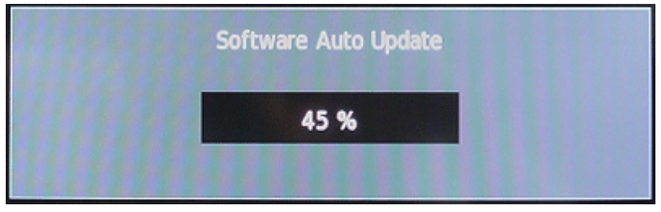
FIRMWARE UPDATING PROCEDURE

Firmware Upgrade - USB

1. Copy a firmware BIN file to USB disk. (Root directory)
2. Plug USB disk into TV USB port.

3. Reboot (AC Off/On) TV to upgrade firmware automatically. During firmware upgrade, OSD will be displayed on LCD screen, and power status LED will be blinking.



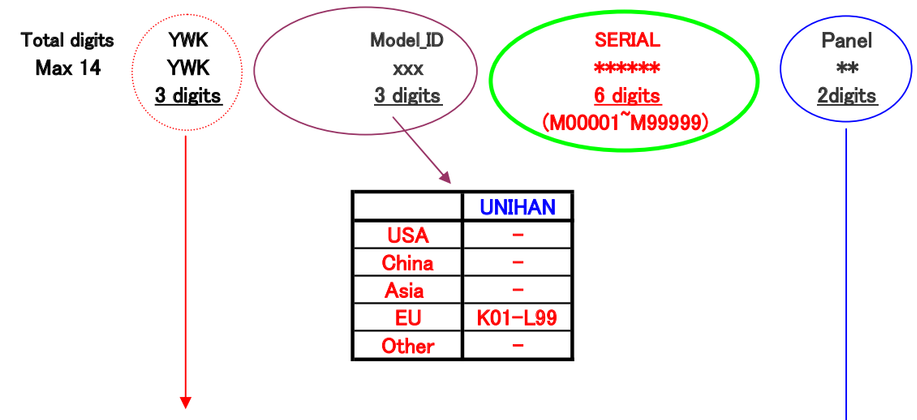
4. When firmware upgrade is finished, a message will be displayed on screen.

5. Unplug USB disk, and turn AC Off/On to reboot TV.

Note:
This upgrade method is available only when boot code exists in flash memory (Main Board).

TOSHIBA WEB-ZEUS

Global Serial No.



Y : Year

8	2008
9	2009
A	2010
B	2011
C	2012
⋮	⋮

WK : Week

01	WK01
02	WK02
03	WK03
04	WK04
⋮	⋮
53	WK53

Panel vendor and version for the model.

Marking	Panel Vendor	Marking	Panel Vendor	Marking	Panel Vendor
A	AUO	J		S	SHARP
B		K	SAMSUNG	T	
C	CMO	L	LPL/LGD	U	
D		M		V	
E		N		W	
F		P	CPT	X	
G		Q		Y	
H	IPS	R		Z	

Model Information

Model	Model ID	Panel ID	Panel
26EL834G	K73	L1	LC260EXN-SDA3
26EL834RB	K80	L1	LC260EXN-SDA3
32EL834B	K82	L1	LC260EXN-SDA3
32EL834G	K81	L1	LC260EXN-SDA3
32EL834R	K78	L1	LC260EXN-SDA3
32HL834G	K83	L1	LC320EUN-SDV1
32HL834R	K77	L1	LC320EUN-SDV1
42HL834G	K84	L1	LC420EUN-SDV1
42HL834R	K79	L1	LC420EUN-SDV1

DESTINATION SETTING CHANGE

Whenever replacing the Main PCB with new one, perform this procedure.

1. Press "Mute" key twice on the Remote.
2. Press "Menu" button on the TV set. Then the OSD is displayed.

3. Move to Tag "3" by Right/Left Arrow key on the Remote.
4. Select "Model Type" cell.

5. Select the appropriate model type by Right/Left Arrow key on the Remote. Model type is written on the rating label.

6. Select "Reset to Def".
7. Select "Yes" and press "OK" button on the Remote.

PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE".

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals.
Before replacing any of these components, read carefully the "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE".

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with * mark is no longer available after the end of the production.

Abbreviations

Capacitors	CD	:	Ceramic Disk
Resistors	CF	:	Carbon film
	OMF	:	Oxide Metal Film
	PF	:	Plastic Film
	CC	:	Carbon Composition
	VR	:	Variable Resistor
	EL	:	Electrolytic
	MF	:	Metal Film
	FR	:	Fusible Resistor

All CD and PF capacitors are ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

TOSHIBA WEB-ZEUS

PARTS LIST

Updating history

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Currently there are no updates available.
Please check back at a later time for any future updates.
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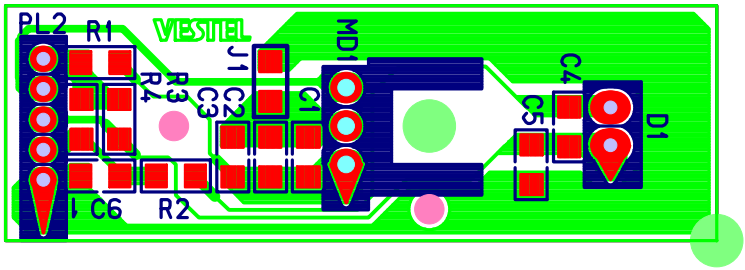
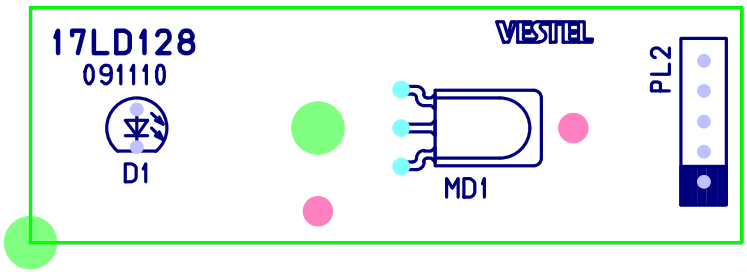
	Location	Parts No.	Description
	E200	75025242	PC BOARD ASSY, MAIN, 26EL833, 9C-EB40M0010
⚠	E250	75025229	POWER OPENFRAME, 88W/+5 12 24V, 0433-005E000
	E260	75025210	PC BOARD ASSY, KEY, 90-EB40S01D0
	E270	75025211	PC BOARD ASSY, IR, 90-EB40S01A0
⚠	E300	75023140	LCD PANEL, LC260EXN-SDA3
	E310	75025243	LVDS CABLE, 30P TO 40P L:300MM, 1414-05B0000
⚠	E320	75025213	POWER CORD, EU/2P BLACK L:1.8M, 1411-00WA000, F/G/N/R/RB
	E330	75025192	SPEAKER, 10W 8 OHM L+R, 04A4-00SK000
	E340	75025246	CABLE, SPEAKER, 2P TO 2P L:70MM, 1419-001N000
	E342	75025248	CABLE, INVERTER, 14P TO 12P L:210MM, 1410-0082000
	E344	75025250	CABLE, POWER, HSG 14P TO 14P, 1414-05BD000
	E346	75025252	CABLE, POWER, 2P INLET-HSG 4P, 1414-05BG000
	E348	75025255	CABLE, Y, 8P TO HSG 3+5P, 1414-05BF000
	E400	75014827	REMOCON HAND UNIT, CT-90326
⚠	E410	75025271	MANUAL, 1506-0GKK000, G
	E100	75026728	FRONT BEZEL ASSY, 26EL834, 13EB-2WB1401
	E110	75026730	BACK COVER ASSY, 26EL834, 13EB-2WB0Z01
	E125	75025238	SCREW, FOR STAND ASSY, 26EL833, 13EB-2WB0B01
	E140	75026732	PLATE, SIDE IO, 26EL834, 13EB-2WQ1601
	E155	75025209	SCREW, BRACKET ASSY, 9C-EB40S00D0
	E190	75025228	MYLAR, 13EB-2VL0311
	E500	75026734	CARTON BOX, 26EL834, 1503-03HA000
	E510	75025257	EPS CUSHION, TOP RIGHT, 26EL833, 1505-01WD000
	E511	75025258	EPS CUSHION, TOP LEFT, 26EL833, 1505-01WC000
	E512	75025259	EPS CUSHION, BOTTOM RIGHT, 26EL833, 1505-01WE000
	E513	75025260	EPS CUSHION, BOTTOM LEFT, 26EL833, 1505-01WF000
	E520	75025261	EPE BAG, 26EL833, 1516-0103000
	E530	75025262	PE BAG, STAND, 26EL833, 1516-01AL000


PL2
R1
VESTEL
J1
MD1
C4
C5
D1
R3
R4
C3
C2
C1
1
C6
R2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MD1
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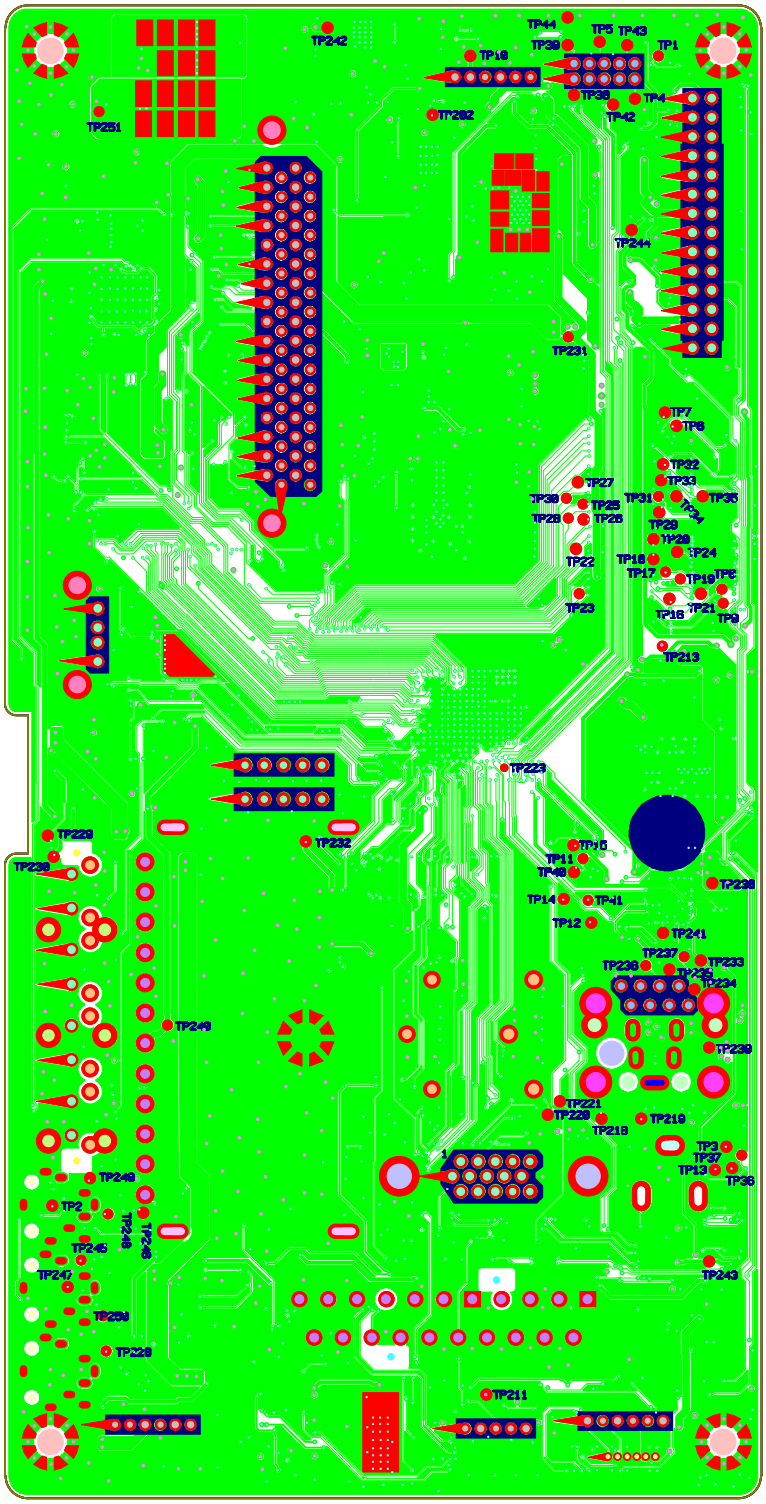
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TP1
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TP9
TP213
TP223
TP232
TP229
TP230
TP15
TP11
TP40
TP236
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TP41
TP12
TP241
TP237
TP233
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TP249
TP239
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TP243
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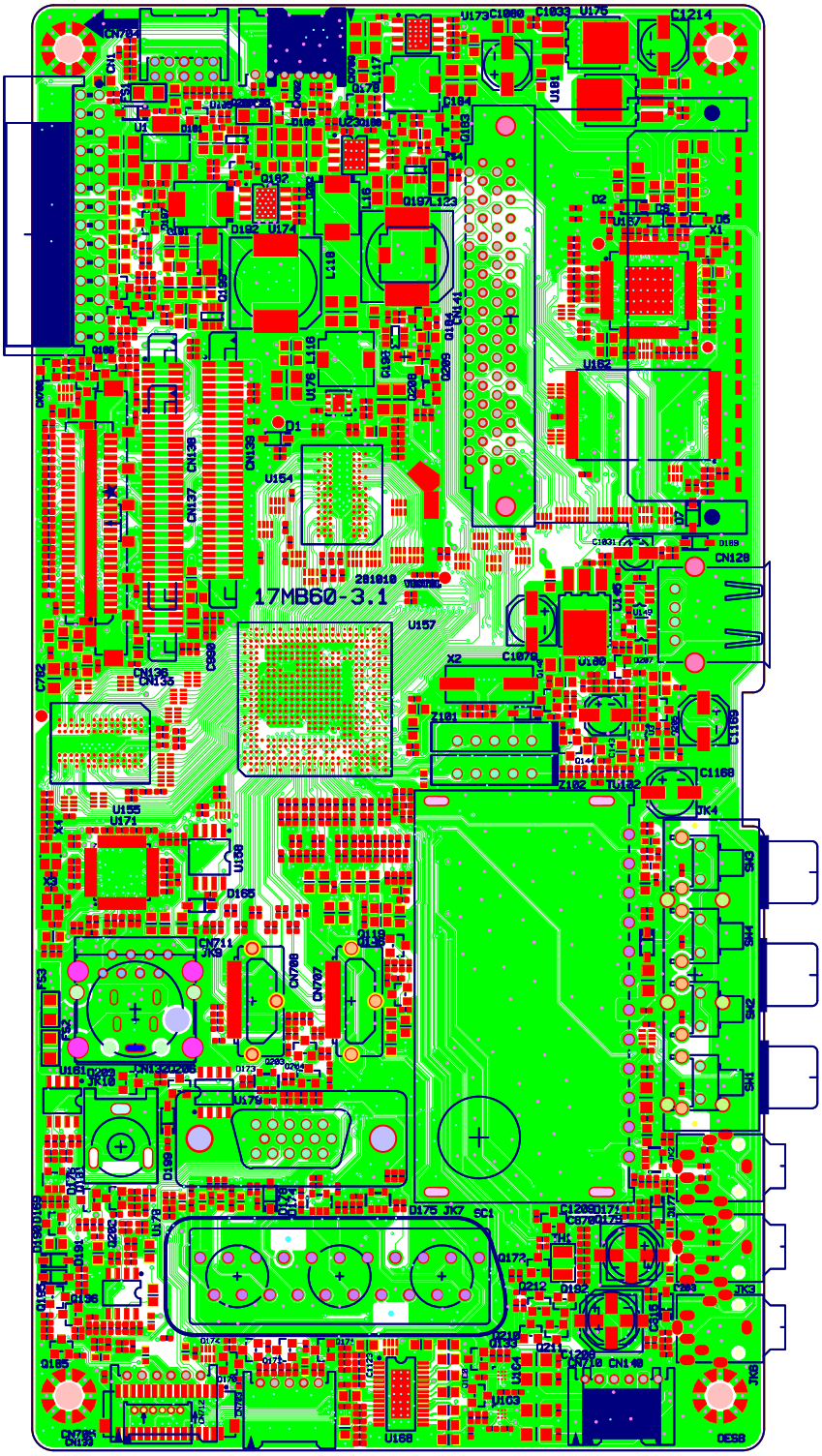
TP228
TP211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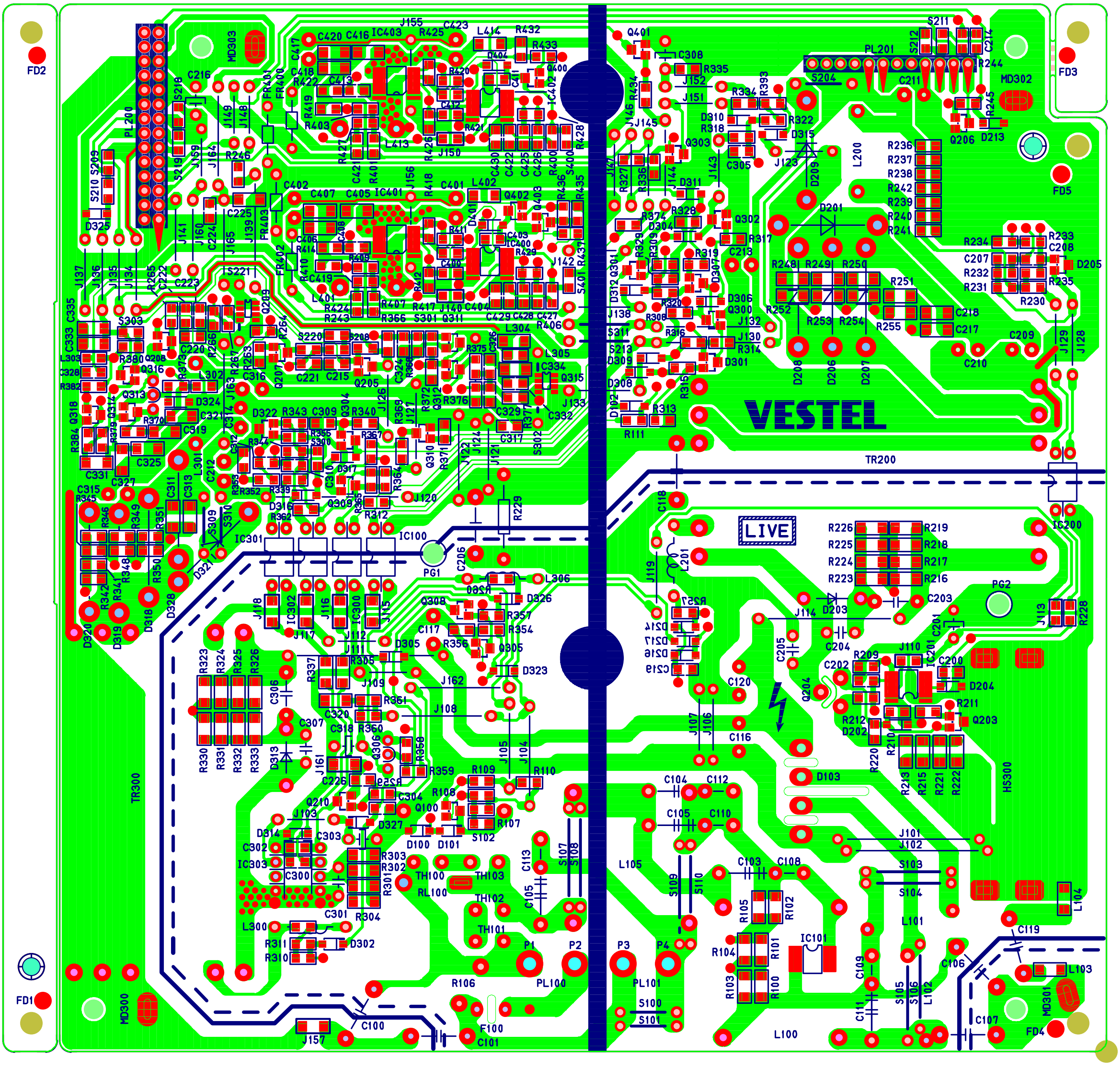

VESTEL
LIVE
TR200
TR300
PL200
PL201
PL100
PL101
IC101
IC200
IC301
IC303
IC401
IC403
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FD2
FD3
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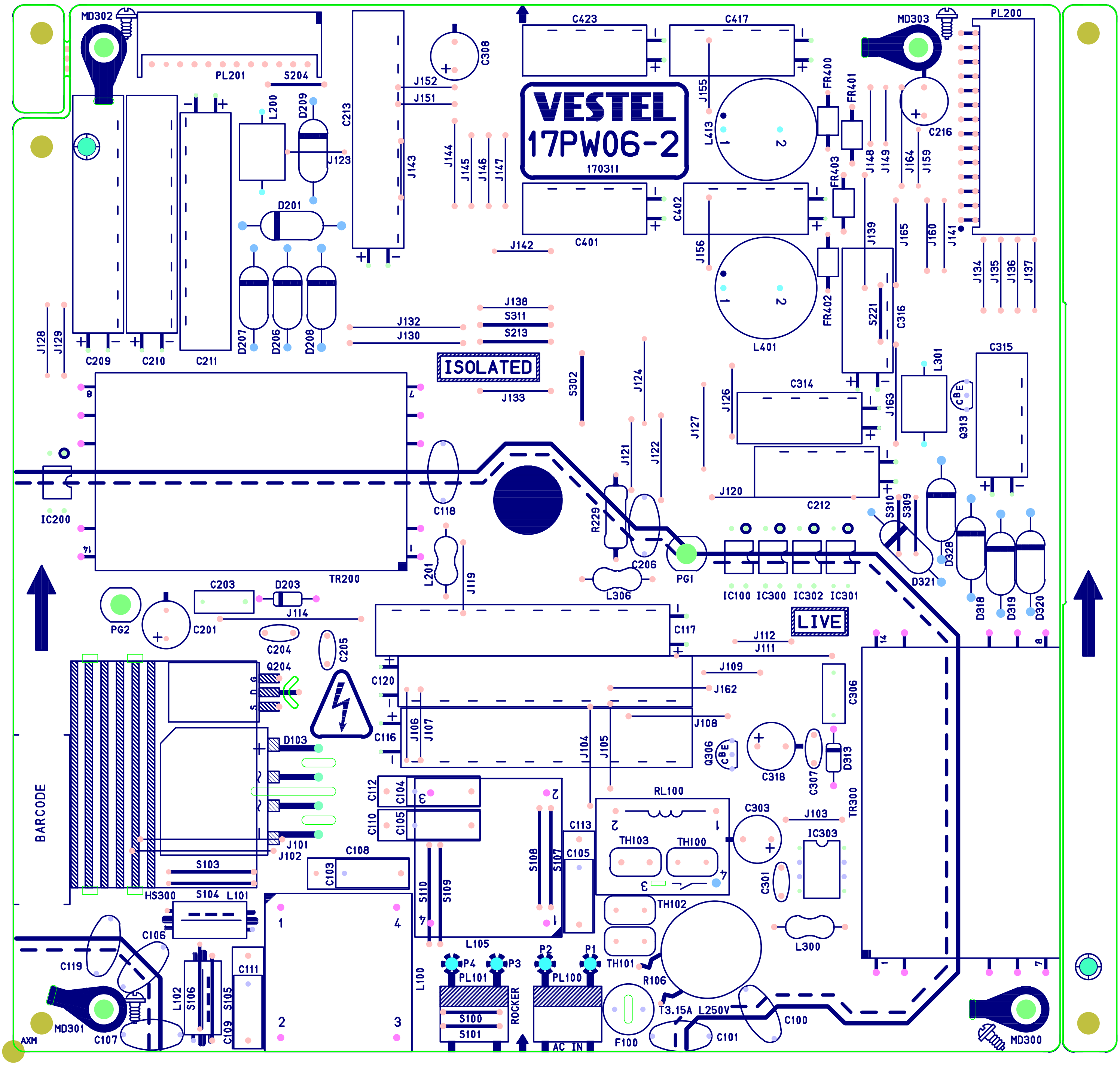
P4
PG1
PG2
F100
L100
H5300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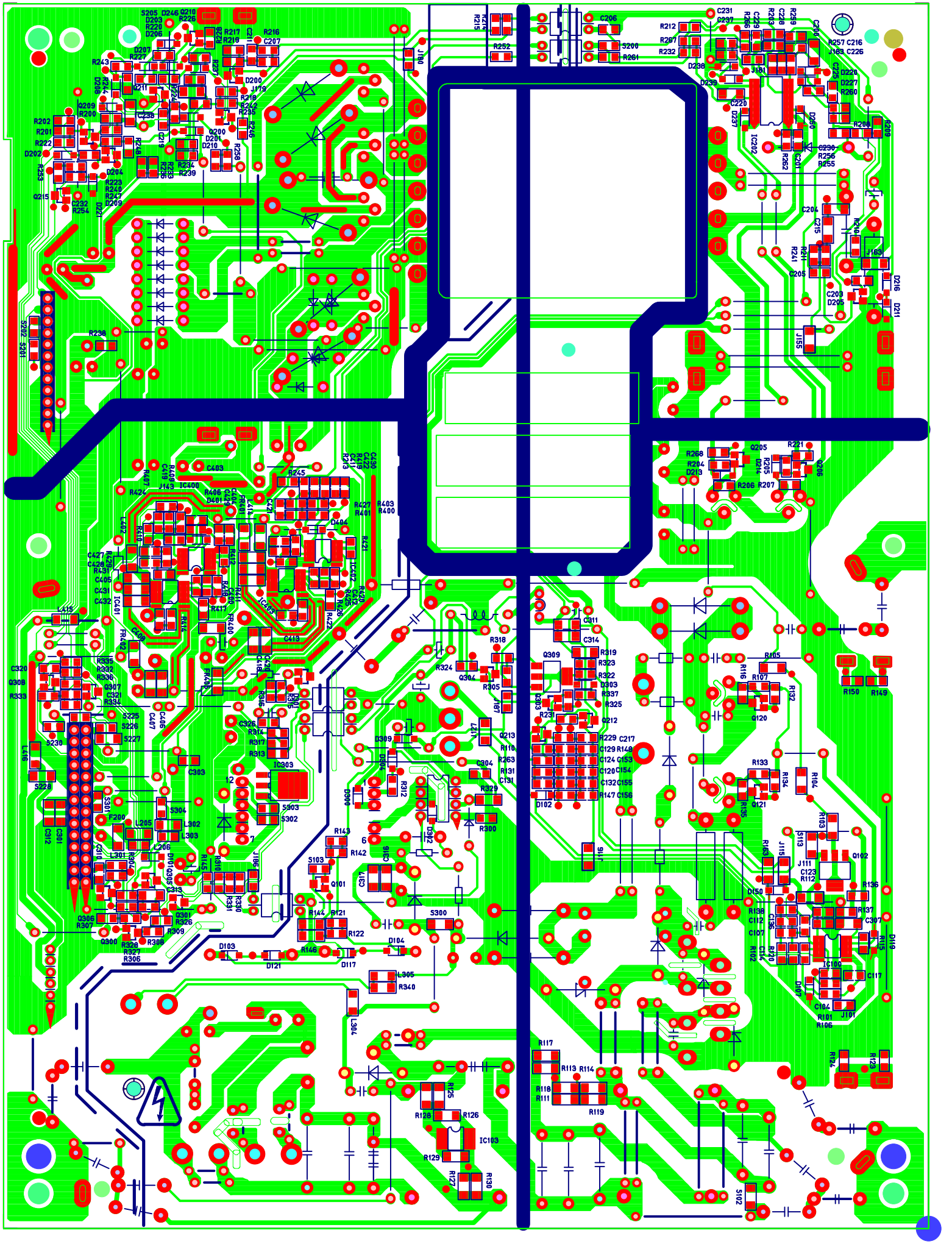

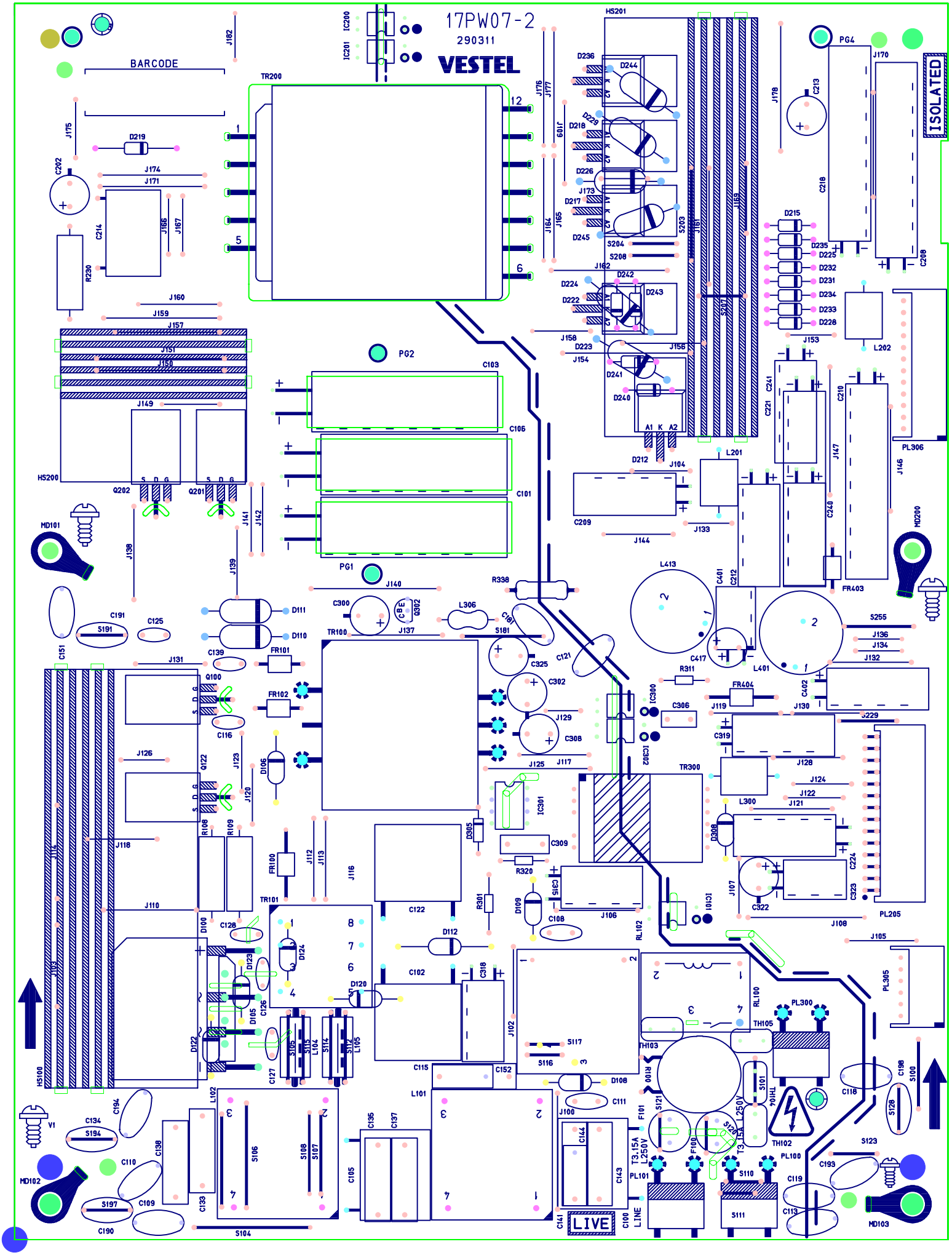
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PG2
PG4
MD101
MD102
MD103
MD200
PL205
PL300
PL305
PL306
PL100
PL101
S255
S5191
S5181
S197
S104
S123
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FR404
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FR100
TH102
TH103
TH104
TH105
F100
F101
T3.15A L250V
T3.15A L250V
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D309
D107
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D104
D103
D122
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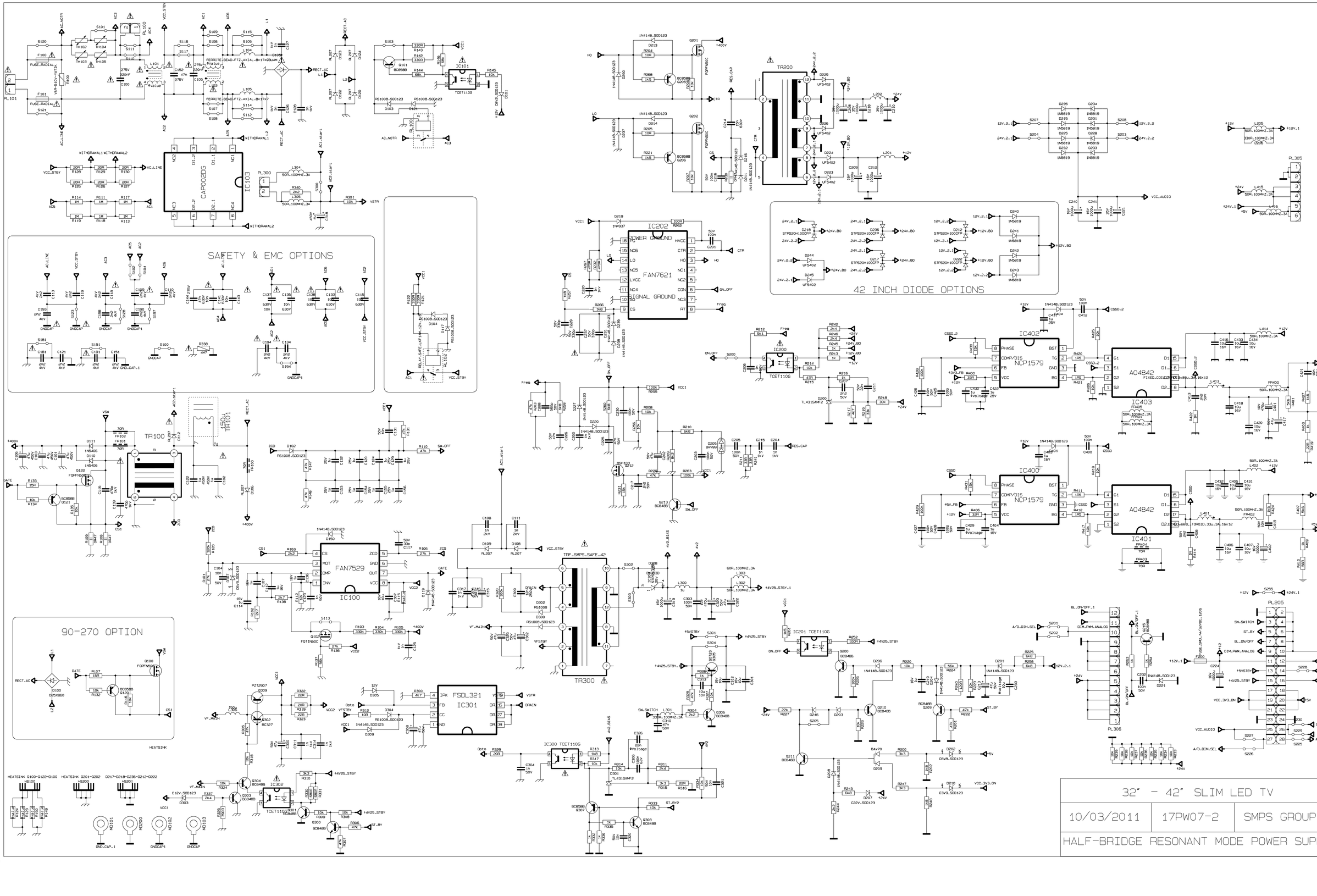
VESTEL 26"LED TV SLIM POWER SUPPLY 17PW06			
Ver. 02	SMPS Group	DATE 04-03-2011	Sheet 1/1


SAFETY & EMC OPTIONS
90-270 OPTION
HEATSINK
42 INCH DIODE OPTIONS
IC103
CAP0020S
IC202
FAN7621
IC100
FAN7529
IC301
FSDL321
IC200
TCET110G
IC402
NCP1579
IC403
A04842
IC400
IC401
TR100
TR200
TR300
32" - 42" SLIM LED TV
10/03/2011
17PW07-2
SMPS GROUP
HALF-BRIDGE RESONANT MODE POWER SUPPLY

R1
100R
MD1
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220R
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C5
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C6
100n
50V
D1
VBC30034
C4
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R2
22R
5 4 3 2 1
PL2
17LD122/XX105/FERHAT/04.11.10

T2 DEMOD

U167

CXD2820R

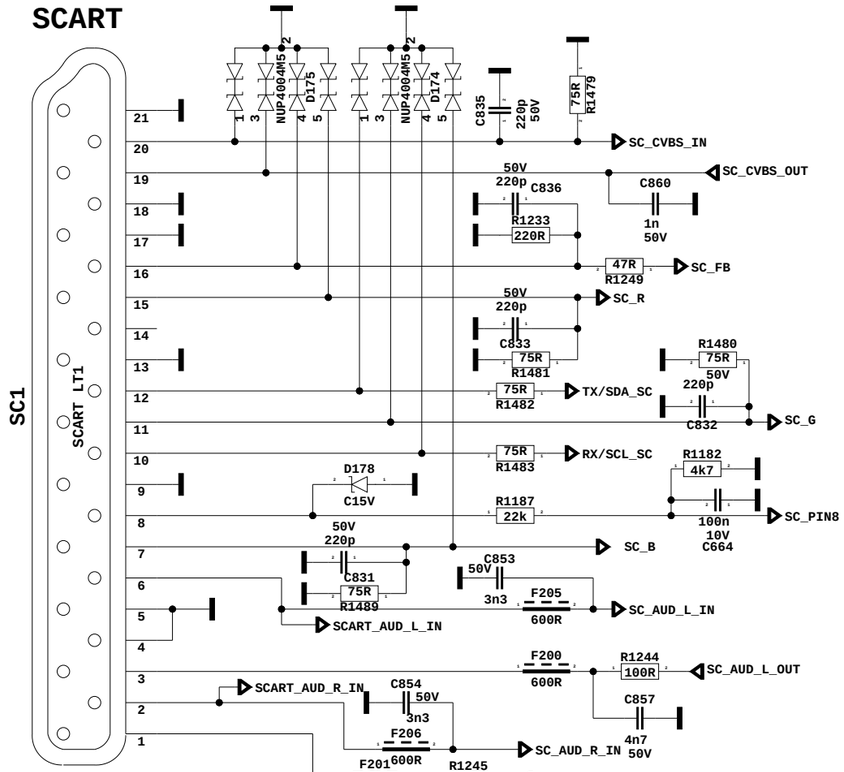
TU102 TDTC-G101D

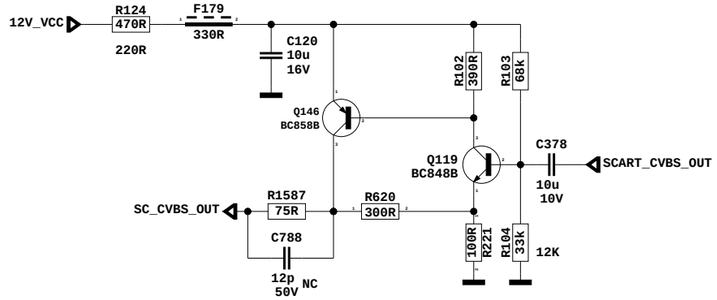
FSA3157 U3

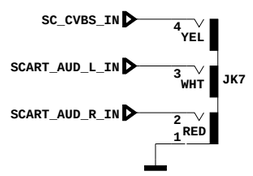
Z101 IN1 OUT1 K9656M IN2 OUT2 GND

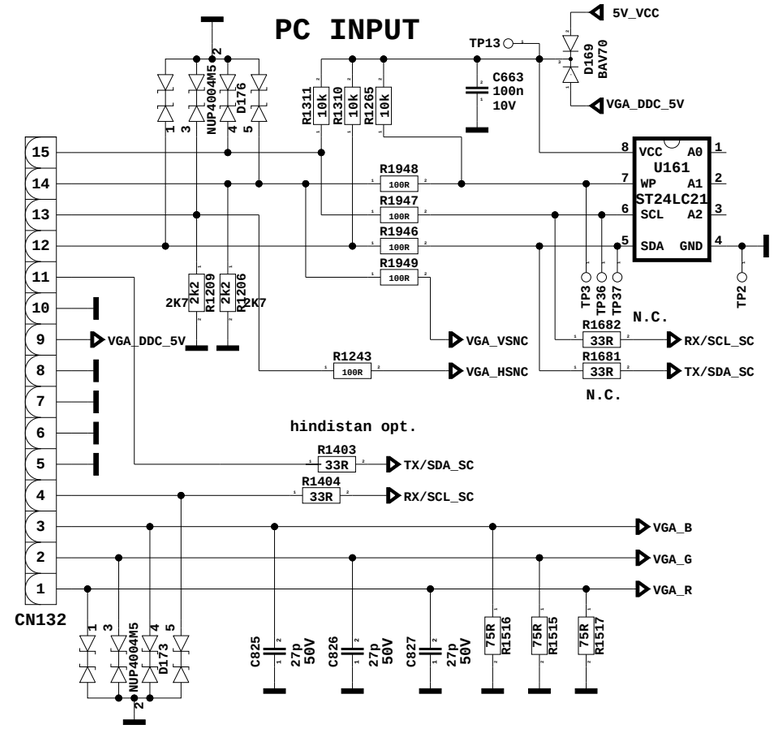
Z102 IN1 OUT1 K3958M IN2 OUT2 GND

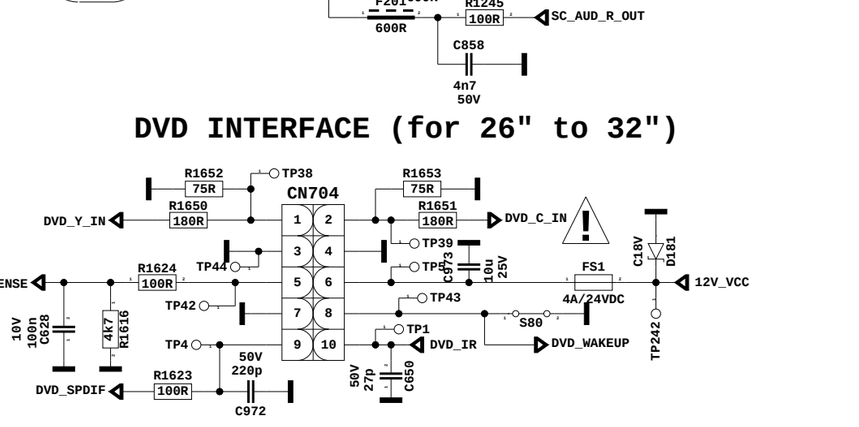
VESTEL	PROJECT NAME : 17mb60-3	A3
SCH NAME :<DRAWING NAME HERE>		SHEET:10 OF:10
DRAWN BY :<YOUR NAME HERE>		12-11-2010_17:06

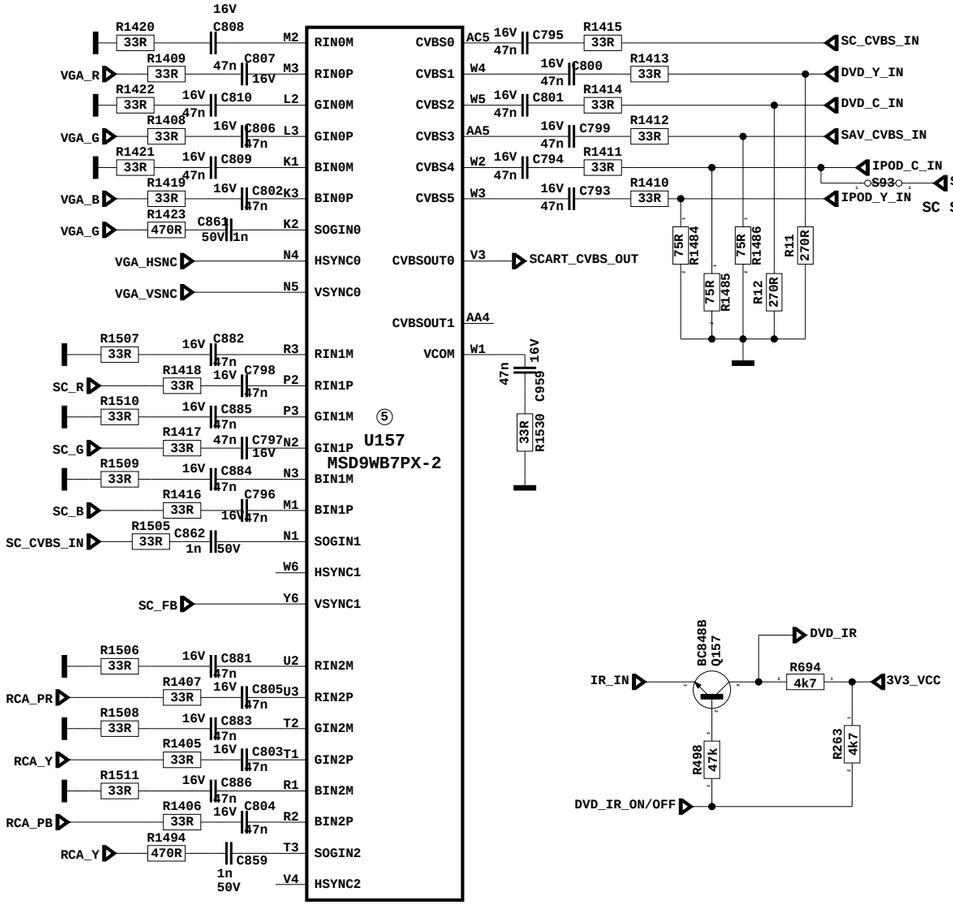


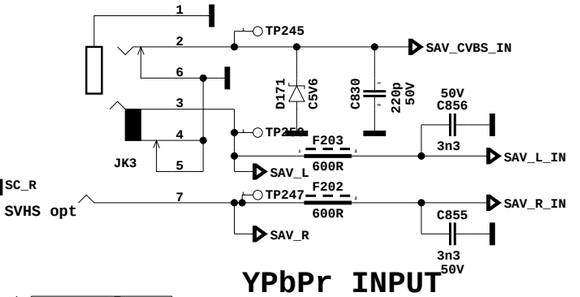


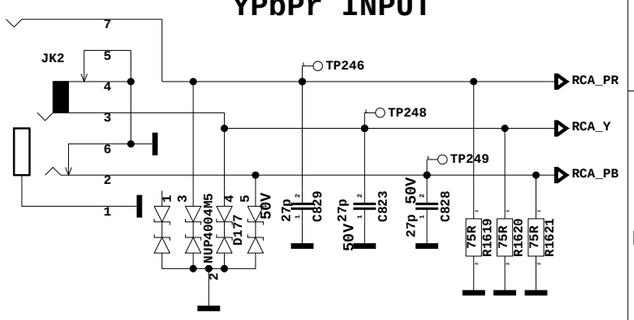


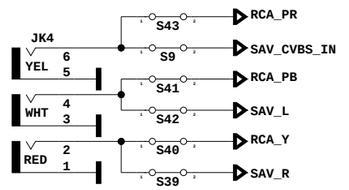












VESTEL	PROJECT NAME : 17mb60-3	A3
SCH NAME :<DRAWING NAME HERE>	SHEET:5 OF:5	
DRAWN BY :<YOUR NAME HERE>	12-11-2010_17:06	

ONBOARD KEYBOARD

LED SOCKET

TWISTED PAIR LVDS OPTION

RESET

USB INTERFACE

EXT KEYPAD

SINGLE LVDS FFC OPTIONS

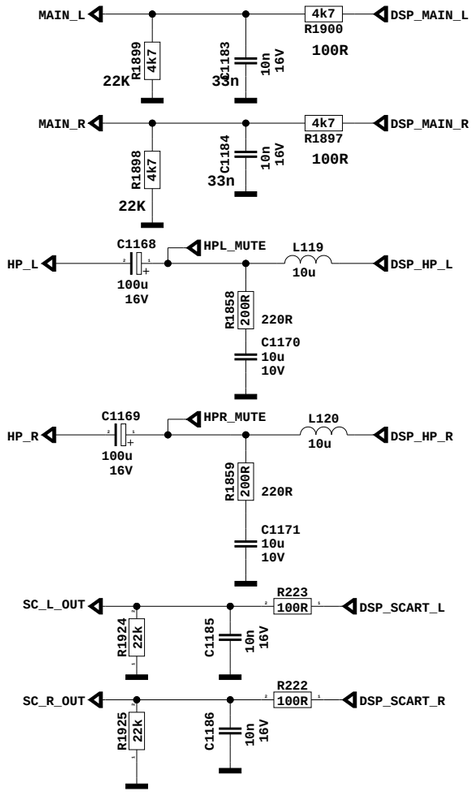
15" TO 22" DOUBLE LVDS FFC OPTIONS

PANEL VCC = 5V/12V

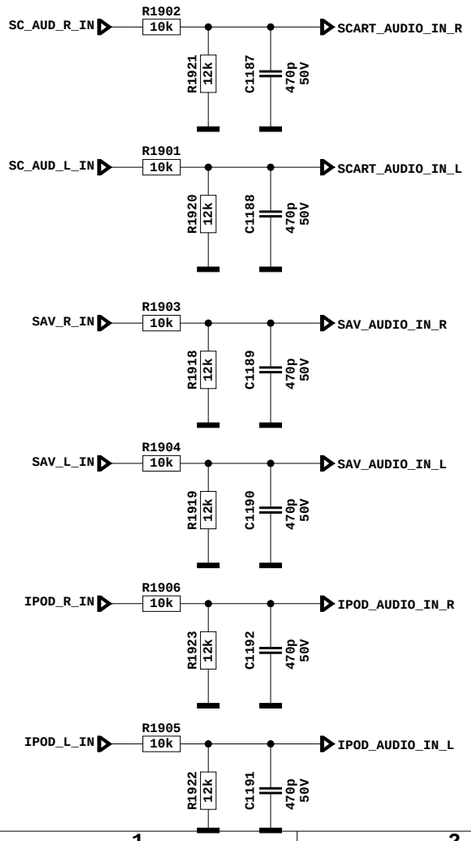
PANEL_VCC = 5V/12V

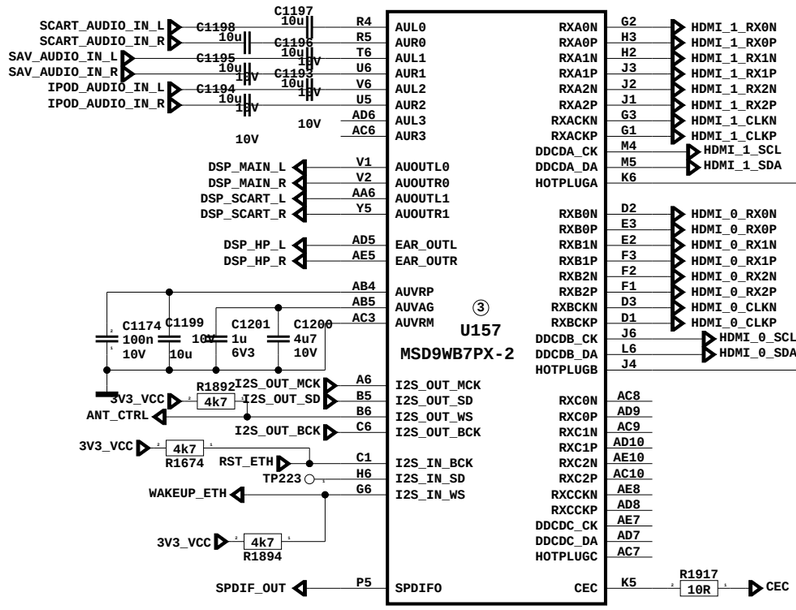
VESTEL	PROJECT NAME : 17mb60-3	A3
SCH NAME :<DRAWING NAME HERE>	SHEET:9 OF:9	
DRAWN BY :<YOUR NAME HERE>	12-11-2010_17:06	

AUDIO OUTPUTs

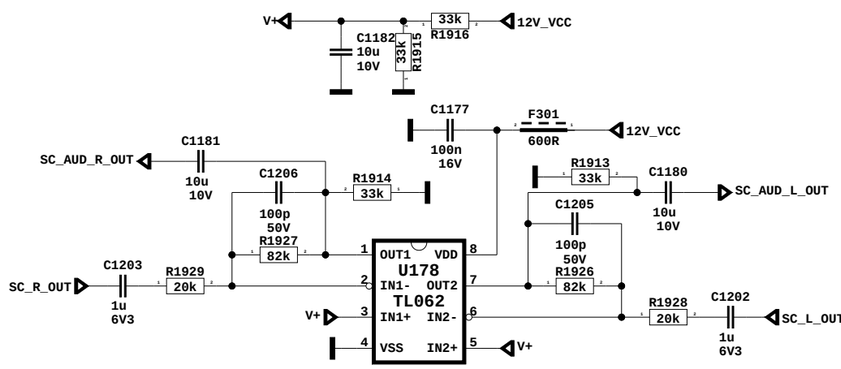


AUDIO INPUTs

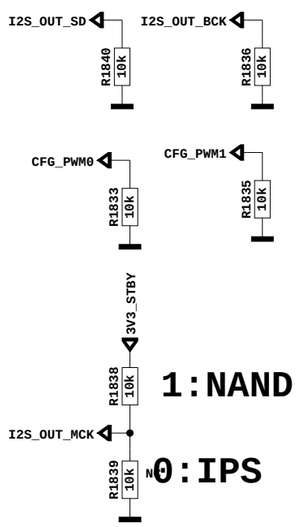




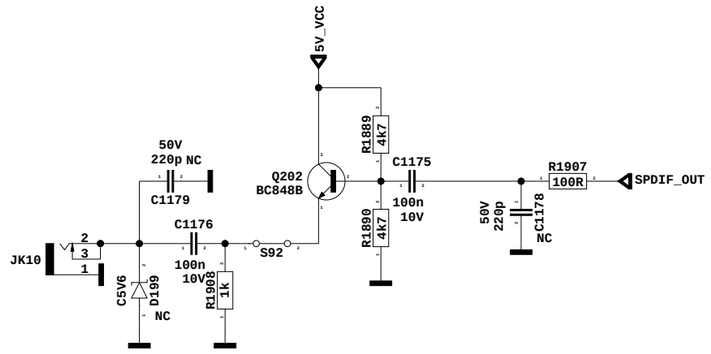
PRE-AMP for SCART AUDIO



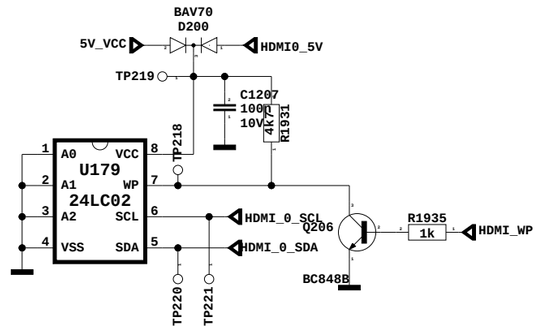
MODE SELECTION



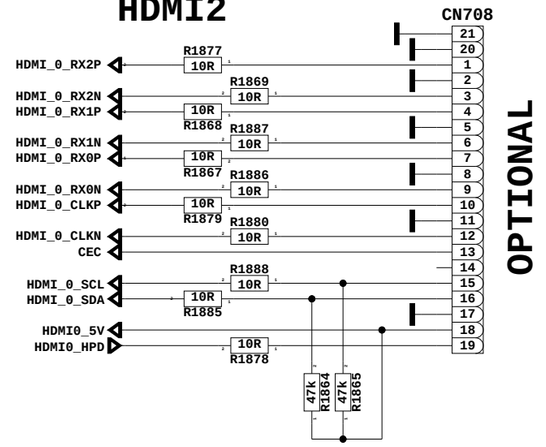
COAX SPDIF OUT



HDMI2 EDID EEPROM

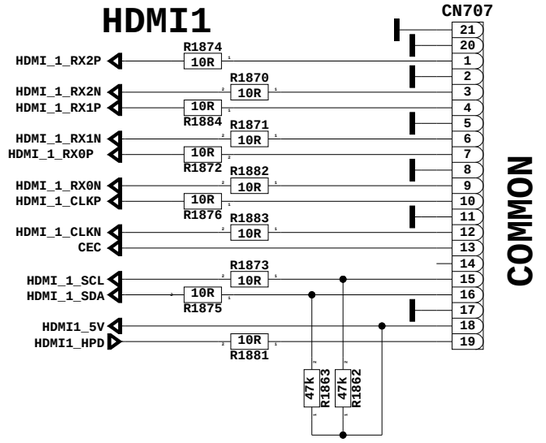


HDMI2



OPTIONAL

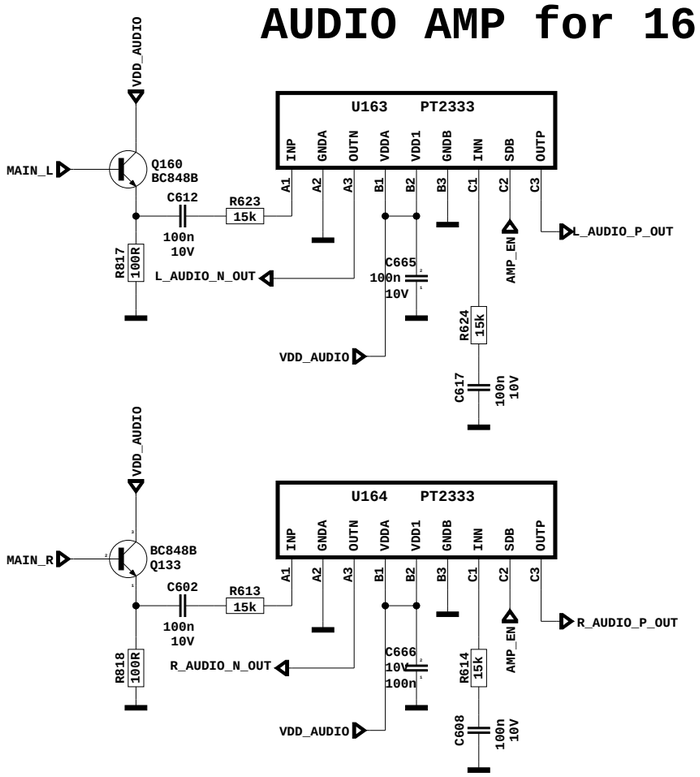
HDMI1

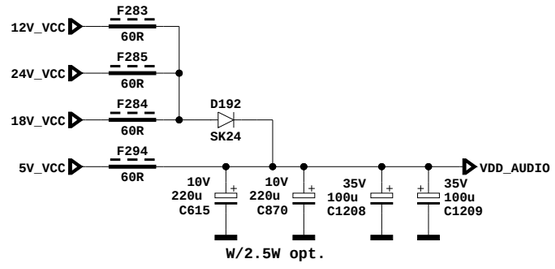


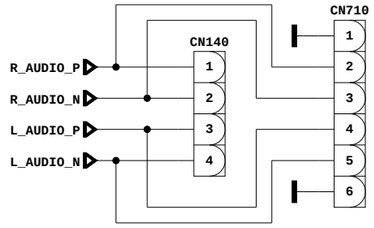
COMMON

VESTEL	PROJECT NAME : 17mb60-3	A3
SCH NAME :<DRAWING NAME HERE>		SHEET:4 OF:4
DRAWN BY :<YOUR NAME HERE>		12-11-2010_17:07

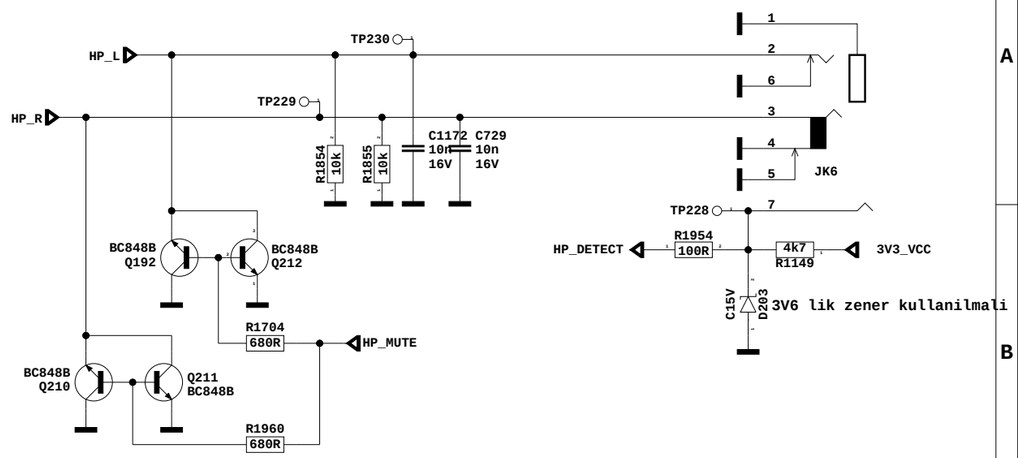
AUDIO AMP for 16" to 24"



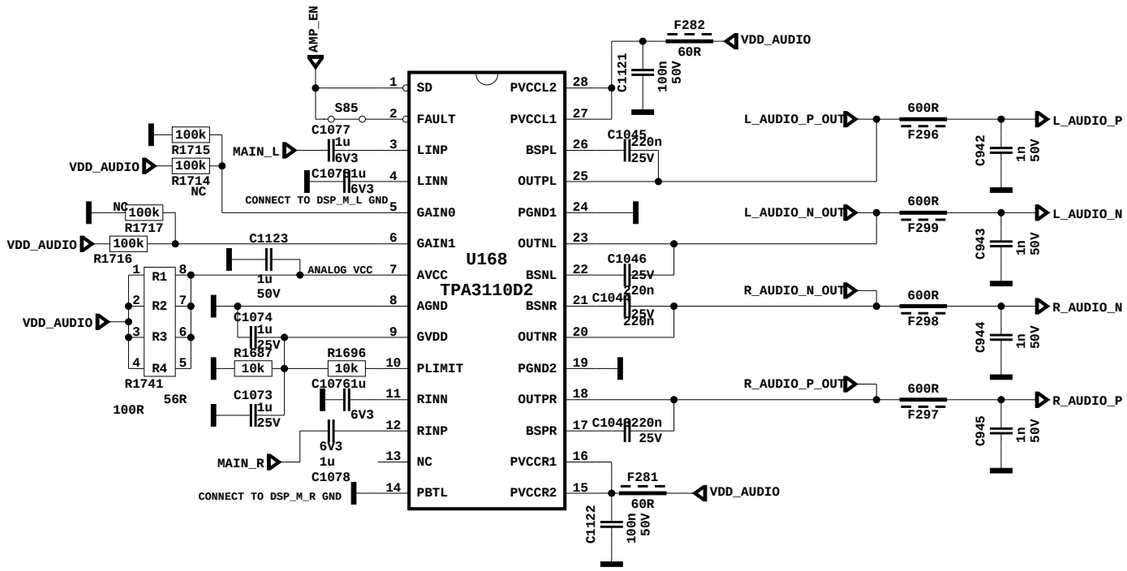




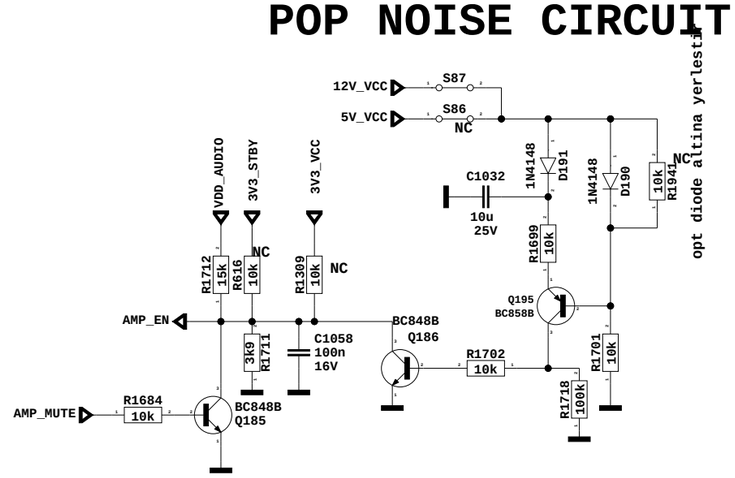
HEADPHONE OUTPUT



AUDIO AMP for 26" to 32"



POP NOISE CIRCUIT



VESTEL	PROJECT NAME :17mb60-3	A3
SCH NAME :<DRAWING NAME HERE>	SHEET:7 OF:7	
DRAWN BY :<YOUR NAME HERE>	12-11-2010_17:07	

CI INTERFACE

NAND FLASH

U157
MSD9WB7PX-2

U162
NAND512-A

U171
AX88772

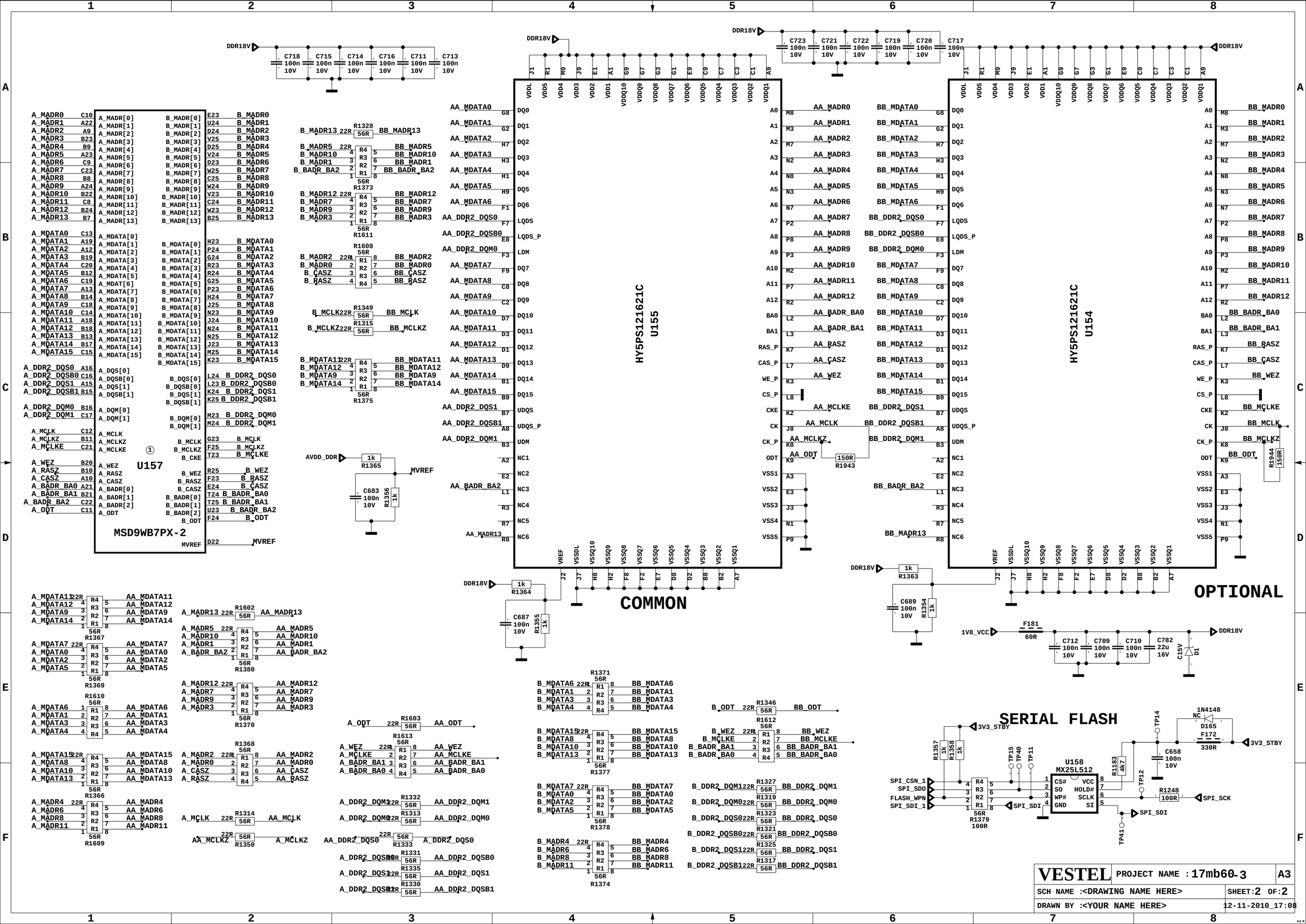
CN141

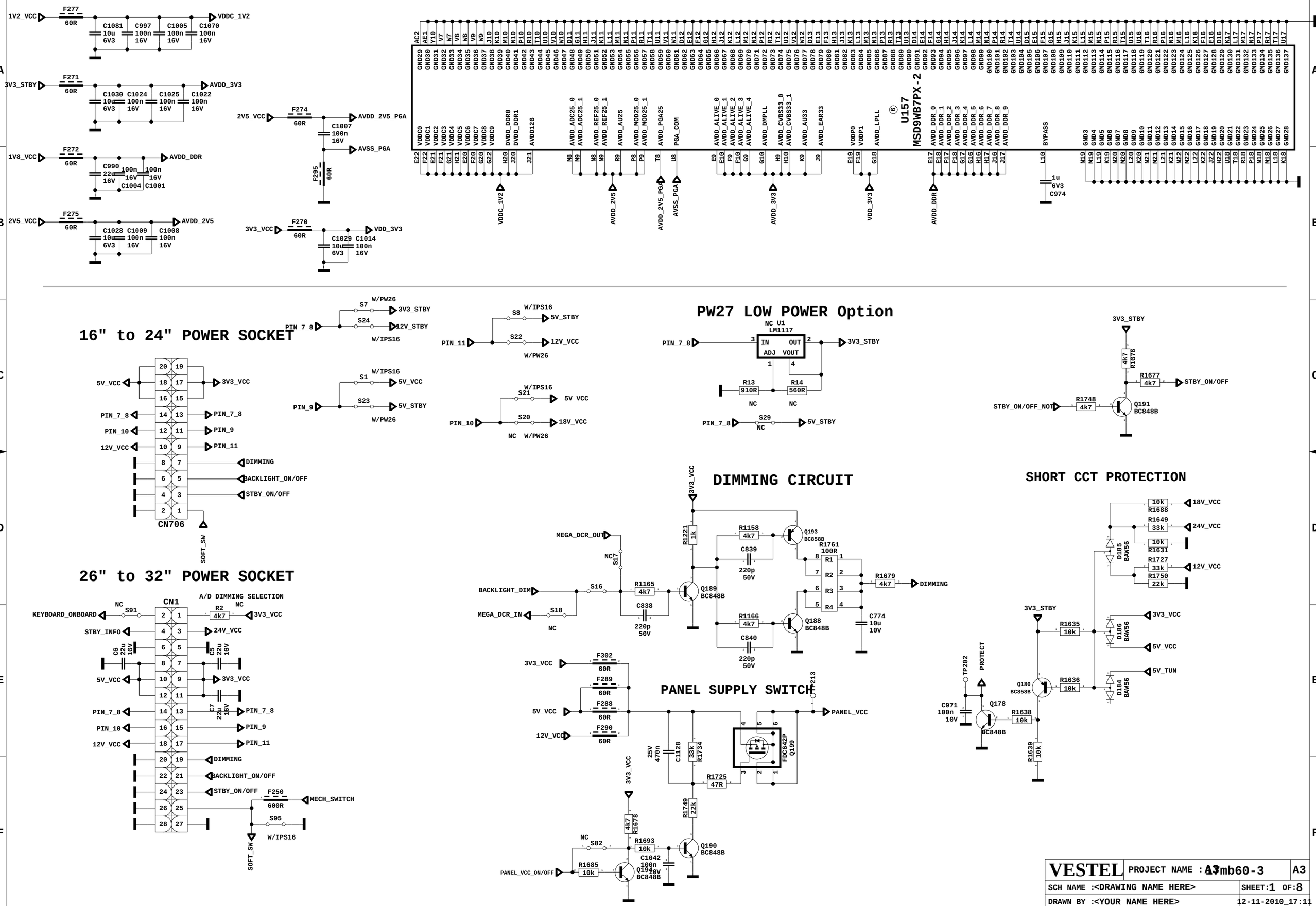
CN711

Ethernet lines must be 100ohm differential pairs

PROJECT NAME	17mb60-3
SCH NAME	<DRAWING NAME HERE>
SHEET	6 OF 6
DRAWN BY	<YOUR NAME HERE>
	12-11-2010_17:07
	A3

VESTEL

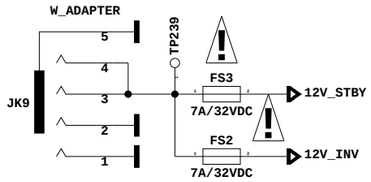

MSD9WB7PX-2
U157
HY5PS121621C
U155
HY5PS121621C
U154
COMMON
OPTIONAL
SERIAL FLASH
U158
MX25L512
VESTEL
PROJECT NAME :17mb60-3
A3
SCH NAME :<DRAWING NAME HERE>
SHEET:2 OF:2
DRAWN BY :<YOUR NAME HERE>
12-11-2010_17:08



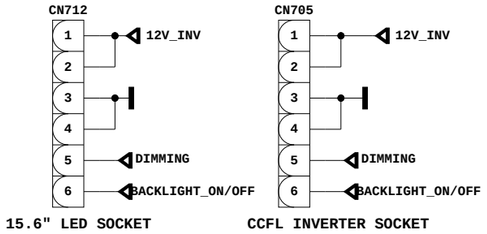
VESTEL	PROJECT NAME : A3mb60-3	A3
SCH NAME :<DRAWING NAME HERE>	SHEET:1 OF:8	
DRAWN BY :<YOUR NAME HERE>	12-11-2010_17:11	

W/ADAPTOR

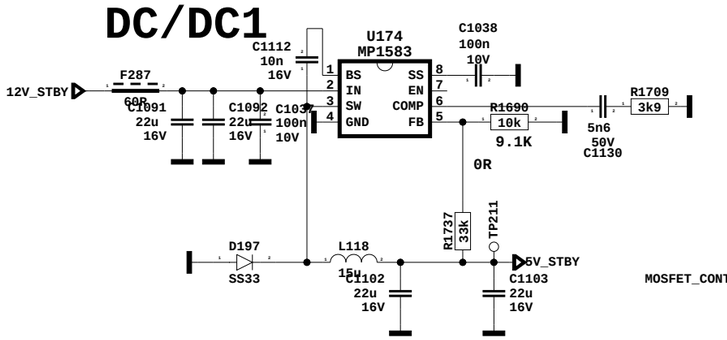
ADAPTER SOCKET



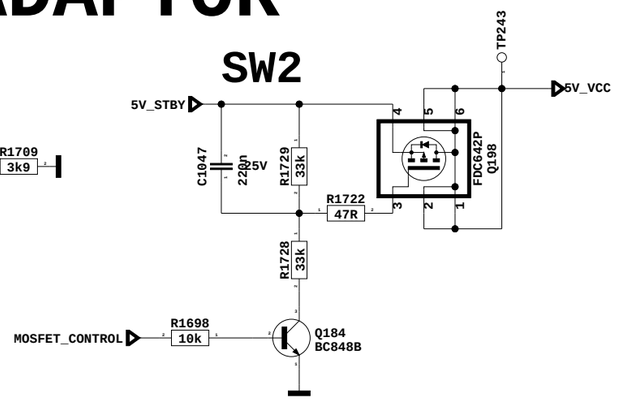
INVERTER SOCKET W/ADAPTER



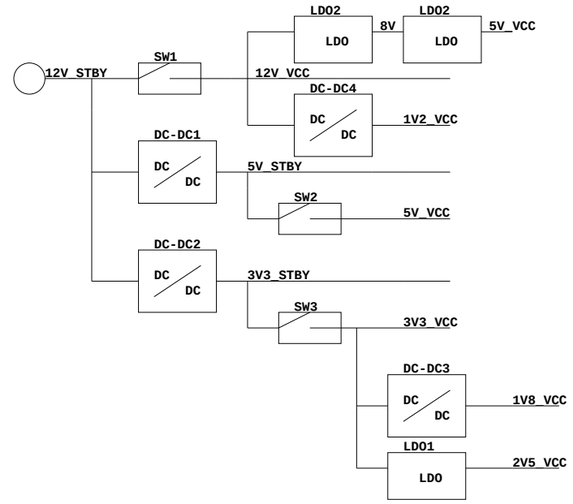
DC/DC1



SW2



POWER BLOCK DIAGRAM



W/ADAPTOR & W/IPS16&17&60

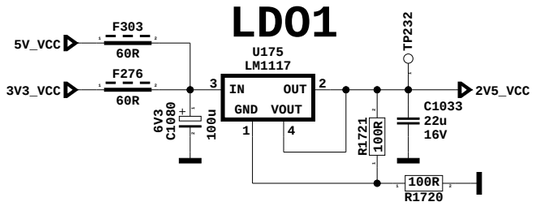
SW1

DC/DC2

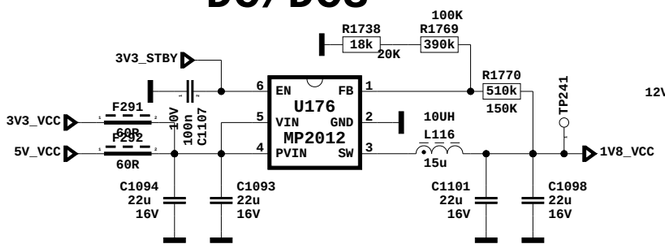
SW3

COMMON

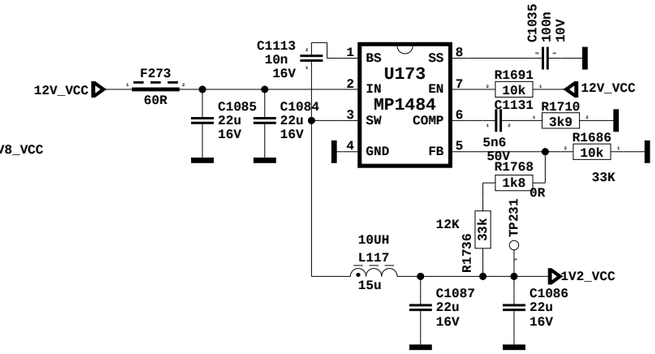
LD01



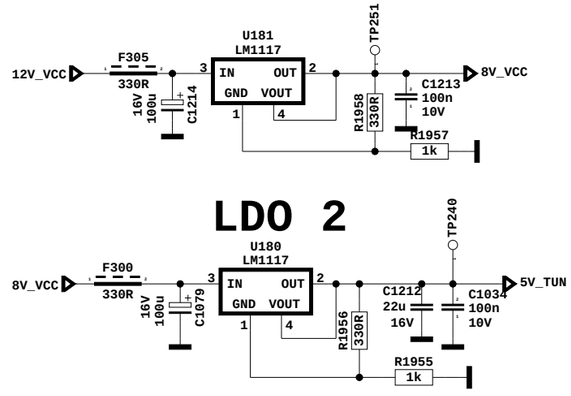
DC/DC3



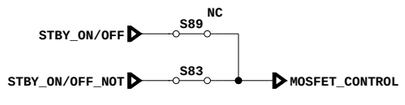
DC/DC4



LDO 2



SW4



VESTEL	PROJECT NAME :17mb60-3	A3
SCH NAME :<DRAWING NAME HERE>	SHEET:11OF:9	
DRAWN BY :<YOUR NAME HERE>	12-11-2010_17:10