

Service
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Service Manual

Horizontal Frequency
31-80 kHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

Revision List

[illegible]

Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC.

AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.

Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:

DANGER-Invisible laser radiation when open AVOID DIRECT EXPOSURE TO BEAM.

CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.

Take care during handling the LCD module with backlight unit

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body is grounded through wristband.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

1. Monitor Specifications

Item		Spec	
LCD Panel	Screen Size	19W" TFT-LCD Panel	
	Aspect Ratio	16:10	
	Resolution	1440x900(WXGA)	
	Display Area (opening) H x V	408.24mm x 255.15mm	
	Pixel Pitch	0.2835mm x 0.2835mm	
	Display Colors	16.2 million	
	Lamp Type/Life	50000 hr	
	Color Temperature	Normal /Cool / Warm	
VGA Function	Input support definition	1440*900 /60Hz	
	Audio input	Mini jack for stereo headphones (3.5ø)	
TV Function	TV Standard	NTSC/M PAL/M,PAL/N	
	Sound System	STEREO	
	Color systems	NTSC , PAL	
Video Input	AV	RCA x 1	Audio L/R x 1
	S-VIDEO	S-Videox 1	
	Component	YPbPr x 1	
Audio output	Audio output: L / R	Speaker (built-in): Two 3 watt speakers	
		Headphone Mini-jack for stereo (3.5ø)	
OSD Language	English, Deutsch, French, Spanish, Italian, Português, Русский, Chinese Simplify		
Table Stand	Yes		
Wall Mount	VESA 100 x 100 mm		
Power	Power	AC100V-240V, 50/60Hz	
	Power Consumption	<65W	
Panel Tilt	Forwards/Backwards/ Rotation	-4°/ +18° / ± 35°	
Environment	Temperature	+ 0 °C ~ + 40 °C	
	storage	- 25 °C ~ + 60 °C	
	operating	10% ~ 85%	
Dimension	W x H x D (with stand)	467 x 400 x 105 (mm)	
Net weight	Without accessory	6.0 Kg	
Accessory	Remote controller, Battey, Power cord, Adapter, Signal Cable, Audio Cable, Microphone Cable, RCA Cable, S-Video Cable, User manual		

2. Operating Instructions

2.1 The Use of Remote Control

0~9/ ~/-~ Digit buttons

To select a TV channel.

PC

Select your input source:
press repeatedly to select
VGA.DVI

Up & Down

Press Up and Down
we can select the submenu
or adjust the
TV channel.

MENU

Press repeatedly to
display OSD menu

MUTE

Temporarily interrupt the
sound or restore it.

PIP

Turn on the PIP function or
Change the sub-window size

SLEEP

With this key you can set a
time period after which the
TV should switch itself to
standby. Press the key
repeatedly to select the
number of minutes. The
counter runs from
15.30.45.60 minutes

**POWER**

Press to turn on/off the
TV. The TV is never
completely powered off
unless it is physically
unplugged.

PRE-CH

To display the previously
selected TV channel.

TV/VIDEO

Select your input source:
press repeatedly to select **TV**,
Video, **S- Video**, **YPbPr**

Left & Right

Press Left and Right ,we can
change the Setting of
submenu or adjust the
volume.

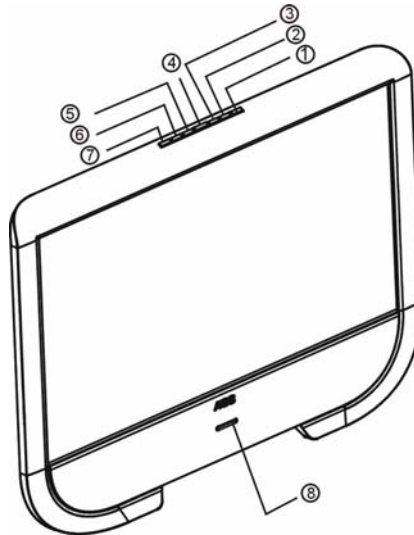
INFO

Press this button to
Display Channel number
on the right-top corner

WIDE

Change the main-window
size. The counter runs from
4:3.16:9. ZOOM1.ZOOM2

2.2 Control Buttons



FRONT PANEL CONTROL KNOBS

MENU Key① : Press to show the OSD menu and exit OSD menu at the TV.

AUDIO Key②: Adjustment volume hot key.

ECO Mode Key③: Press to select the ECO Mode.

Power Key : Press to turn on or off the TV

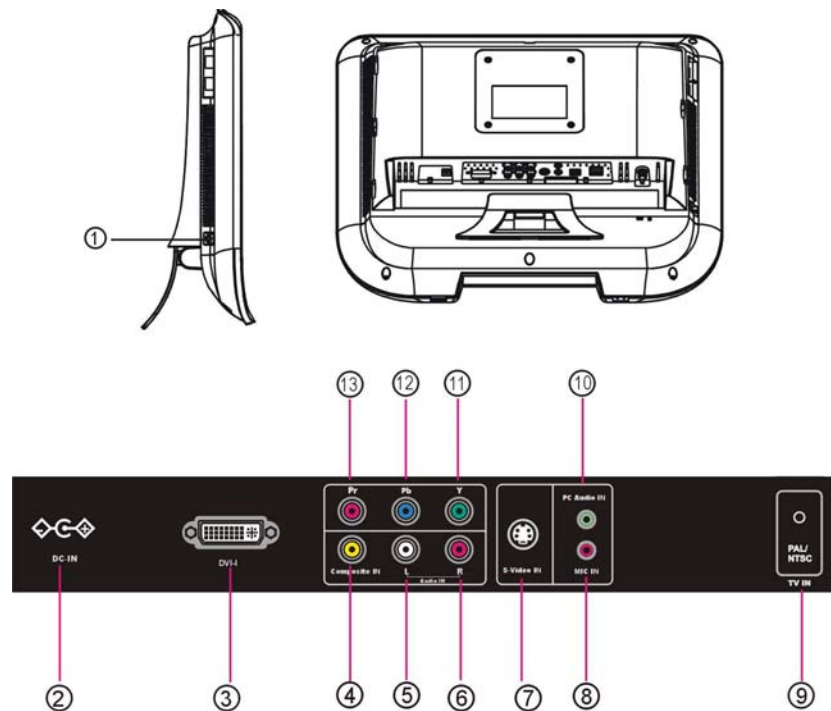
Auto Adjust Key⑤: The Auto Adjustment function is used to set the HPos, VPos, Clock and Focus in VGA Mode.

Source Key⑥ : Press to select your input source.

Light Sensor⑦: When you turn on the light sensor in the menu, the brightness will change as the light of environment.

Remote Sensor and Microphone⑧: It will receive the information from the Remote Control and voice by Microphone.

2.3 Connector



1: Headphone outlet

2: DC power input terminal

3: DVI-I input

4: AV signal input

5: Left video/audio track input

6: Right video/audio track input

7: S-Video signal input

8: Microphone input

9: TV signal input

10: PC audio input

11, 12 and 13: Y Pb Pr Component signal input

VGA/DVI: Receive the signals from the host, which is used as the display of the computer.

AV: Receive the video/audio signals of the NTSC, PAL.

S-VIDEO(S-VHS): i.e. video Y/C component. Receive the HD Y/C component signal.

Y Pb Pr: The modes it supports are HD signals such as 480i, 480p, 576i, 576p, 720p, 1080i.

TV: Receive the TV signals of NTSC-M, PAL-M/N.

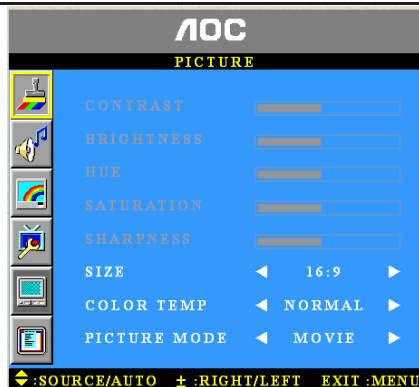
2.4 Adjusting the Picture

To use the menu

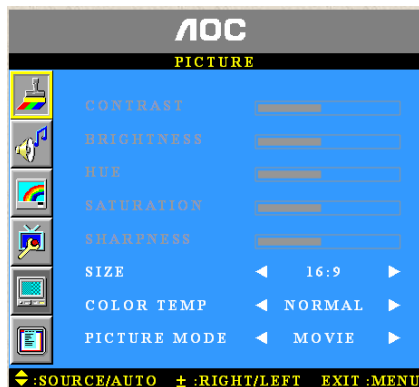
1. Press the **MENU** button to display or close main menu.
2. Use the cursor up/down to select a menu item.
3. Use the cursor left/right to enter a submenu or enable/disable the function.
4. Press the **MENU** button to exit the menu.

MAIN MENU

Press the **MENU** button to enter the main OSD (On Screen Display). Adjust the items including Picture Setup, Audio setup, TV Setup, Function Setup and OSD setup.



When the input source is Video, S-Video or YPbPr mode, the Sound Setup, Picture Setup, OSD Setup and Function Setup can be selected;



When the input source is TV mode, the Sound Setup, Picture Setup, OSD Setup, Function Setup and TV Setup can be selected.



Sound Setup (Same as in DVI, VGA, TV, Video, S-Video and Components modes)

1.Bass/ Treble / Balance : The range can be adjusted from 0~100.

2.Sound mode: you can set it "stereo", "eala L", "eala s", "OFF".

3.Source:When PIP it's turn on. You can choose audio input by main-window or sub-window.



Picture Setting

When the input source is in VGA or DVI mode, you can select Contrast, Brightness, Position, Clock, Phase, Color

Temp. Auto Adjust,



1.Brightness and Contrast: The range can be adjusted from 0~100.

2.H-Position and V- Position: The range can be adjusted from 0~100.

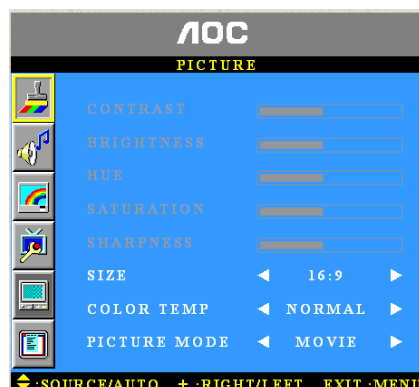
3.Clock: The range can be adjusted from 0~100.

4.Phase: The range can be adjusted from 0~100.

5.Color Temp.: There are four options of color temperature provided for users -normal, cold, user and Warm. You can select the three-color temperatures of normal, cold and warm or manually adjust red, green or blue in the user setting (you can only adjust red, green and blue in the user setting).

6.Auto Adjust: Automatically adjust VGA input to the optimal screen size

When the input source is in **TV/Video/S-Video/YPbPr** mode, you can select Contrast, Brightness, Hue, Saturation, Sharpness, Size, Color Temp, Picture mode;



1: CONTRAST: You can adjust contrast from 0~100

2: BRIGHTNESS: You can adjust brightness from 0~100

3: HUE: You can adjust HUE from 0~100

4: SATURATION: You can adjust saturation from 0~100

5: SHARPNESS: You can adjust sharpness from 0~100

6: SIZE: You can change in 16:9,4:3,ZOOM1, ZOOM2 mode

7: COLOR TEMP: You can choose in NORMAL,WARM and COOL temperature

8: PICTURE MODE: You can choose in USER, STANDARD, MOVIE, VIVID mode

Function Setup

When the input source is in all mode, you can select Sleep Timer, Smart sensor , But PIP-windows just only for VGA/DVI mode

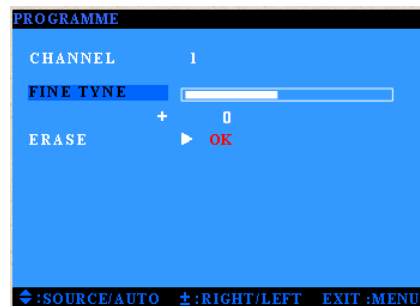


1. **Sleep timer:** You can set time period after which the TV should switch itself to standby. Select the number of minutes. The counter runs from 15.30.45.60 minutes.
2. **Smart sensor:** Turn on this function, the system can auto detect light of environment be to change brightness
3. **PIP-WINDOWS:** When the input source is in VGA/DVI mode, you can turn on PIP function and you can choose sub-window source, size or position



TV Setting

The following menu appears only in the TV mode.



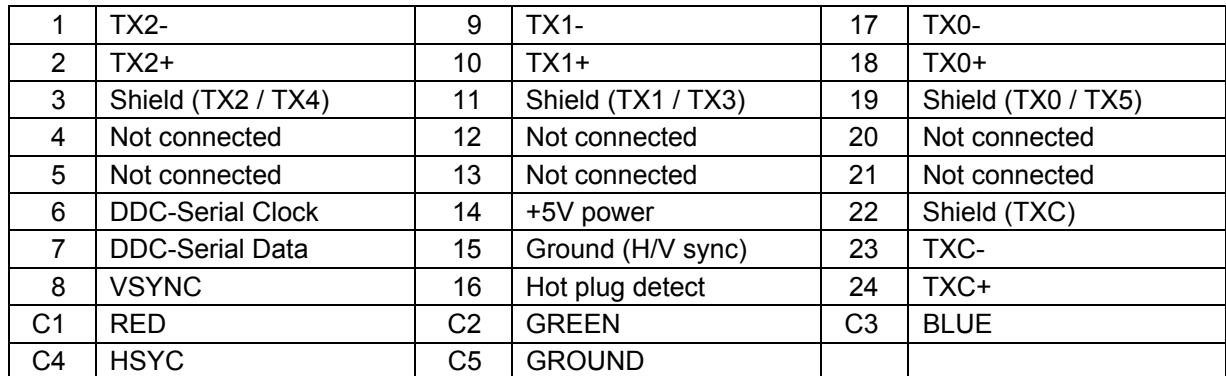
1.Auto Scan: Select "Auto Scan" to search all signaled channel; when the searching is complete, it stays at the first channel with signal and all channels that have been located are stored. If you would like to stop "Auto Scan" during the process, simply by pressing the function button.

2.Channel Tuning mode: The demonstration chooses now channel

3.Fine tune: Fine tune the frequency of current channel.

4.Erase: The elimination chooses now channel .

3.1 Input Signal Connector



3.2 Factory Preset Display Modes

VESA MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency (KHz)	Sync Polarity	Nominal Freq. (Hz)	Sync Polarity	Nominal Pixel Clock (MHz)
VGA	640x480@60Hz	800 x 525	31.469	N	59.940	N	25.175
	640x480@72Hz	832 x 520	37.861	N	72.809	N	31.500
	640x480@75Hz	840 x 500	37.500	N	75.00	N	31.500
SVGA	800x600@56Hz	1024 x 625	35.156	N/P	56.250	N/P	36.000
	800x600@60Hz	1056 x 628	37.879	P	60.317	P	40.000
	800x600@72Hz	1040 x 666	48.077	P	72.188	P	50.000
	800x600@75Hz	1056x625	46.875	P	75.000	P	49.500
XGA	1024x768@60Hz	1344x806	48.363	N	60.004	N	65.000
	1024x768@70Hz	1328x806	56.476	N	70.069	N	75.000
	1024x768@75Hz	1312x800	60.023	P	75.029	P	78.750
SXGA	1280x1024@60Hz	1688x1066	63.981	P	60.020	P	108.000
	1280x1024@75Hz	1688x1066	79.976	P	75.025	P	135.000
WXGA+	1440x900@60Hz	1904x934	55.935	N	59.887	P	106.500
WXGA+	1440x900@75Hz	1936x942	70.635	N	74.984	P	136.750

IBM MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency (KHz)	Sync Polarity	Nominal Freq. (Hz)	Sync Polarity	Nominal Pixel Clock (MHz)
DOS	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322
DOS	640x350@70Hz	800 x 449	31.469	P	70.087	N	25.175
XGA	1024x768@72Hz	1304 x 798	57.515	P	72.1	P	75.000
MAC MODES							
VGA	640x480@67Hz	864x525	35.000	N	66.667	N	30.240
SVGA	832x624@75Hz	1152x667	49.725	N	74.551	N	57.2832
XGA	1024x768@60Hz	1312x813	48.780	N	60.001	N	64.000
	1024x768@75Hz	1328x804	60.241	N	74.927	N	80.000

3.3 Panel Specification

HannStar Display model HSD190MGW1-A00 is a color active matrix thin film transistor (TFT) liquid crystal display (LCD) that uses amorphous silicon TFT as a switching device. This model is composed of a TFT LCD panel, the voltage reference, common voltage, DC-DC converter, column, and row driver circuit. This TFT LCD has a 19-inch diagonally measured active display area with WXGA+ resolution (900 vertical by 1440 horizontal pixel array).

3.3.1 Display Characteristics

Item	Specification		Unit
Outline dimension	428x278x18.5 (typ.)		mm
Display area	408.24 (H) x255.15 (V)		mm
Number of Pixel	1440(H) x 900(V)		Pixels
Pixel pitch	0.2835(H) x 0.2835(V)		mm
Pixel arrangement	RGB Vertical stripe		
Display color	16.2M (6-bit+FRC)		
Display mode	Normally white		
Surface treatment	Antiglare, Hard-Coating (3H)		
Weight	2200		G
Back-light	4-CCFLs, Top & bottom edge side		
Input signal	2-ch LVDS		
Power consumption	Logic system	2.7	W
	B/L system	22	W
Optimum viewing direction	6 o'clock		

3.3.2 Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Contrast		CR	$\theta=0^{\circ}$ $\phi=0^{\circ}$ Normal viewing angle	450	700	--	msec
Response time	Rising	TR		--	1.5	3	
	Falling	TF		--	3.5	7	
White luminance (center of screen)		Y_L		240	300	--	cd/m^2
White luminance (center of screen)		Y_L		280	350	--	cd/m^2
Color chromaticity (CIE1931)	Red	R_x		0.613	0.643	0.673	
		R_y		0.295	0.325	0.355	
	Green	G_x		0.265	0.295	0.325	
		G_y		0.586	0.616	0.646	
	Blue	B_x		0.113	0.143	0.173	
		B_y		0.051	0.081	0.111	
	White	W_x		0.280	0.310	0.340	
		W_y		0.300	0.330	0.360	
Viewing angle	Hor.	θ_L	CR>10	65	75	--	
		θ_R		65	75	--	
	Ver.	θ_H		65	75	--	
		θ_L		55	65	--	
Viewing angle	Hor.	θ_L	CR>5	75	85	--	
		θ_R		75	85	--	
	Ver.	θ_H		75	85	--	
		θ_L		65	75	--	
Brightness uniformity		B_{UNI}	$\theta=0^{\circ}$ $\phi=0^{\circ}$	--	75	--	%

3.3.3 Parameter guide line for CCFL Inverter**TFT LCD Module:**

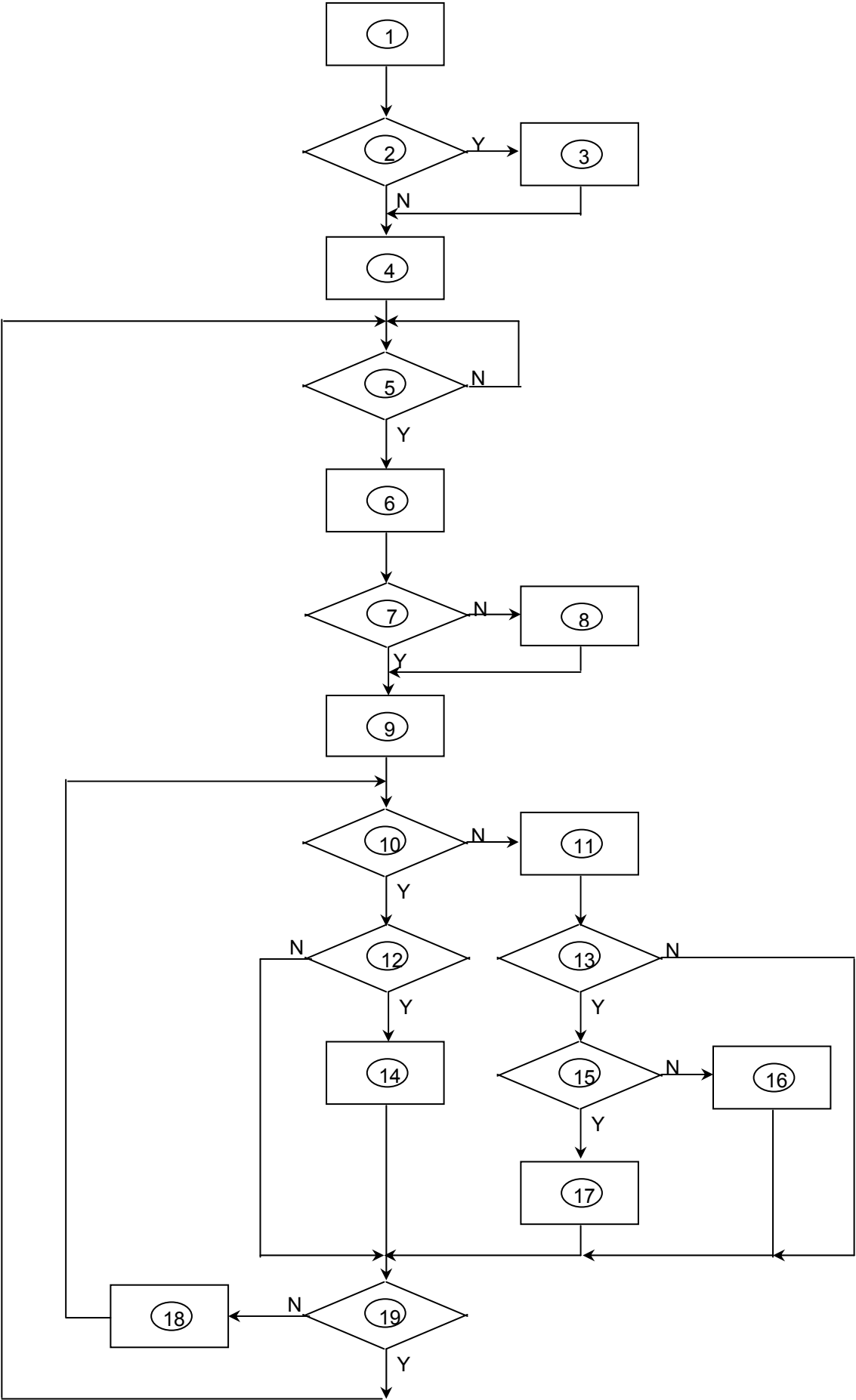
Item	Symbol	Min.	Max.	Unit.
Power supply Voltage	VDD	-0.3	6.0	V(DC)

Back Light Unit:

Item	Symbol	Min.	Max.	Unit
Lamp current	I_L	3.0	9.0	MA
Lamp frequency	f_L	40	80	KHz

4. Block Diagram

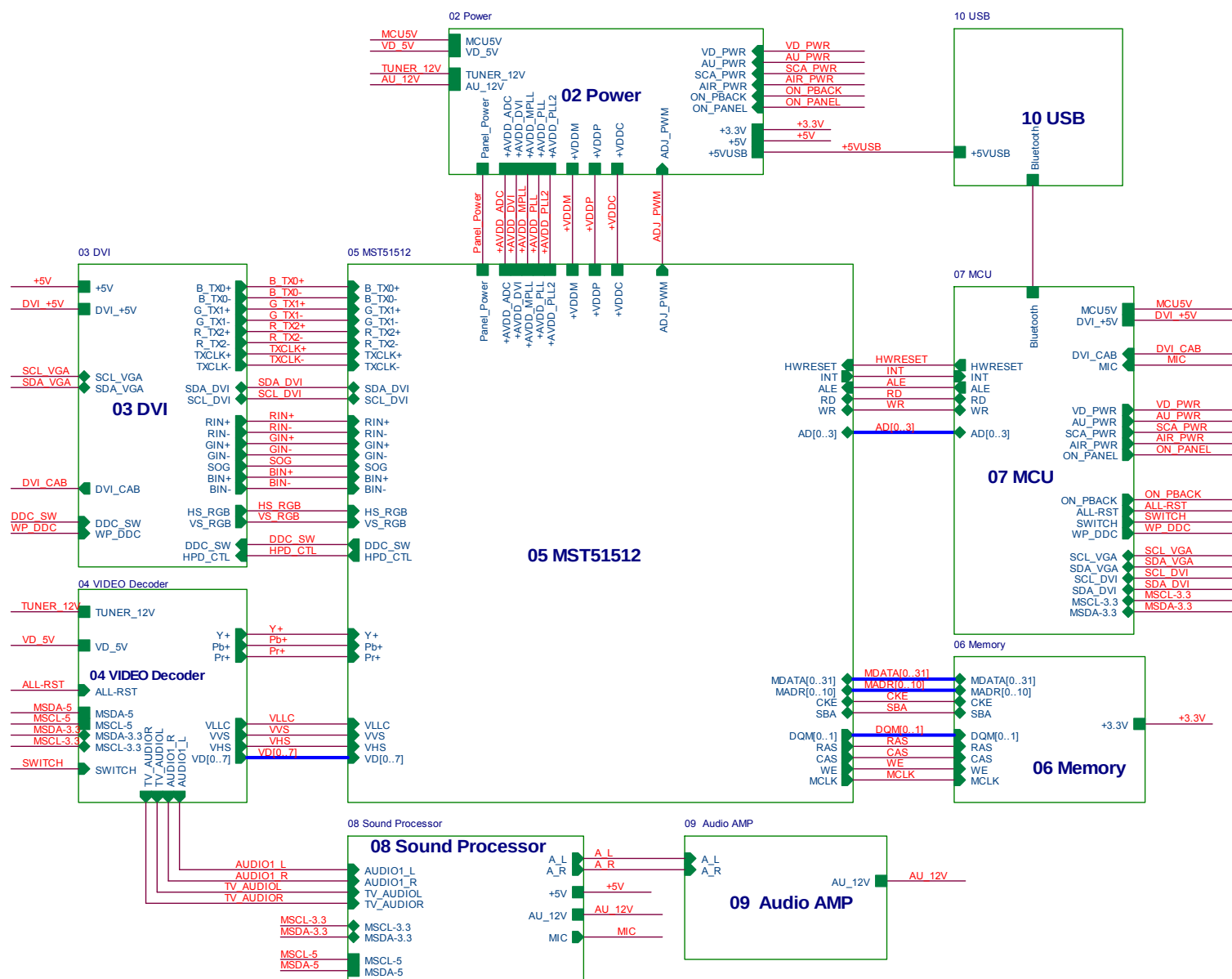
4.1 Software Flow Chat



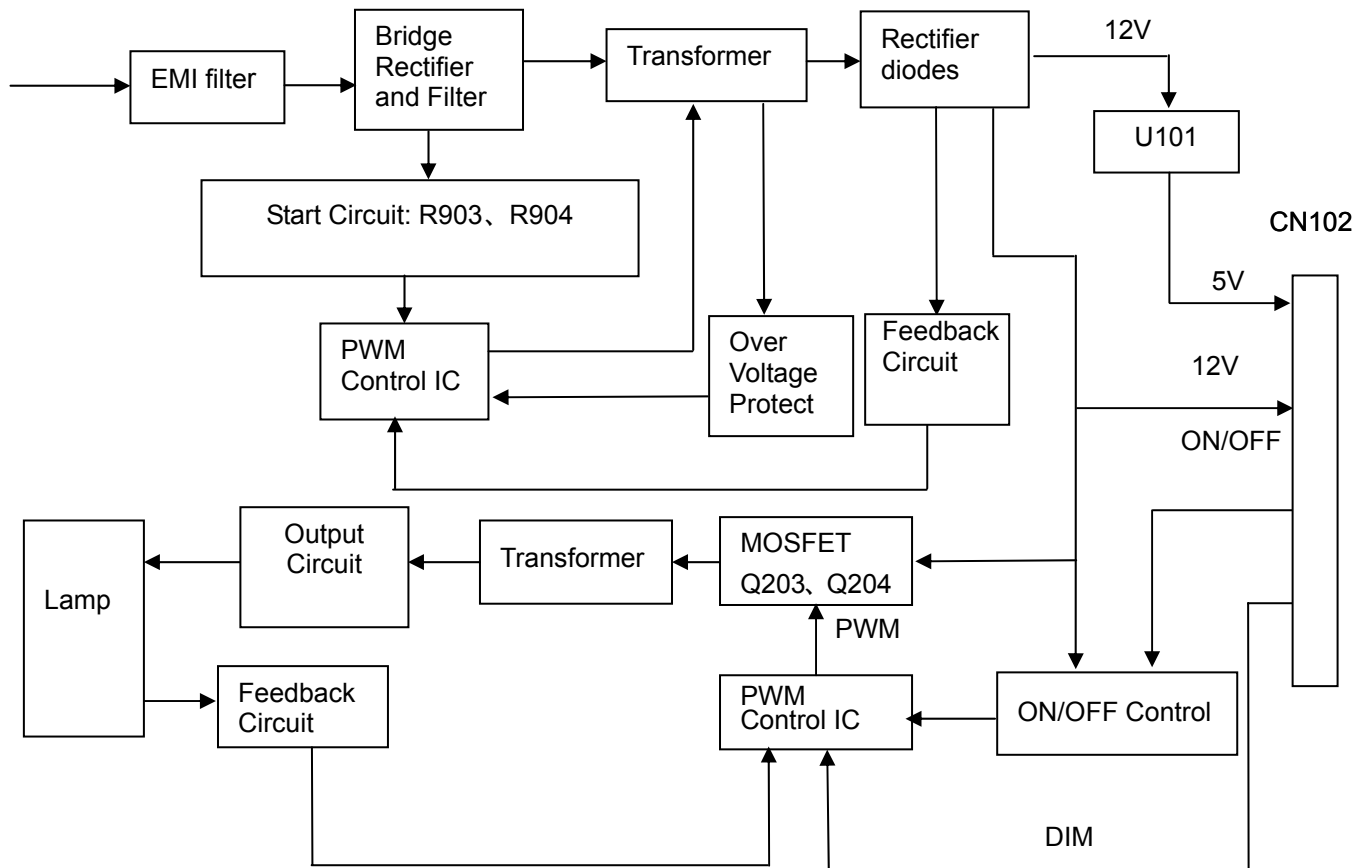
- 1) MCU initialize.
- 2) Is the EPROM blank?
- 3) Program the EPROM by default values.
- 4) Get the PWM value of brightness from EPROM.
- 5) Is the power key pressed?
- 6) Clear all global flags.
- 7) Are the AUTO and SELECT keys pressed?
- 8) Enter factory mode.
- 9) Save the power key status into EPROM.
Turn on the LED and set it to green color.
Scalar initializes.
- 10) In standby mode?
- 11) Update the lifetime of back light.
- 12) Check the analog port, are there any signals coming?
- 13) Does the scalar send out an interrupt request?
- 14) Wake up the scalar.
- 15) Are there any signals coming from analog port?
- 16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappear.
- 17) Program the scalar to be able to show the coming mode.
- 18) Process the OSD display.
- 19) Read the keyboard. Is the power key pressed?

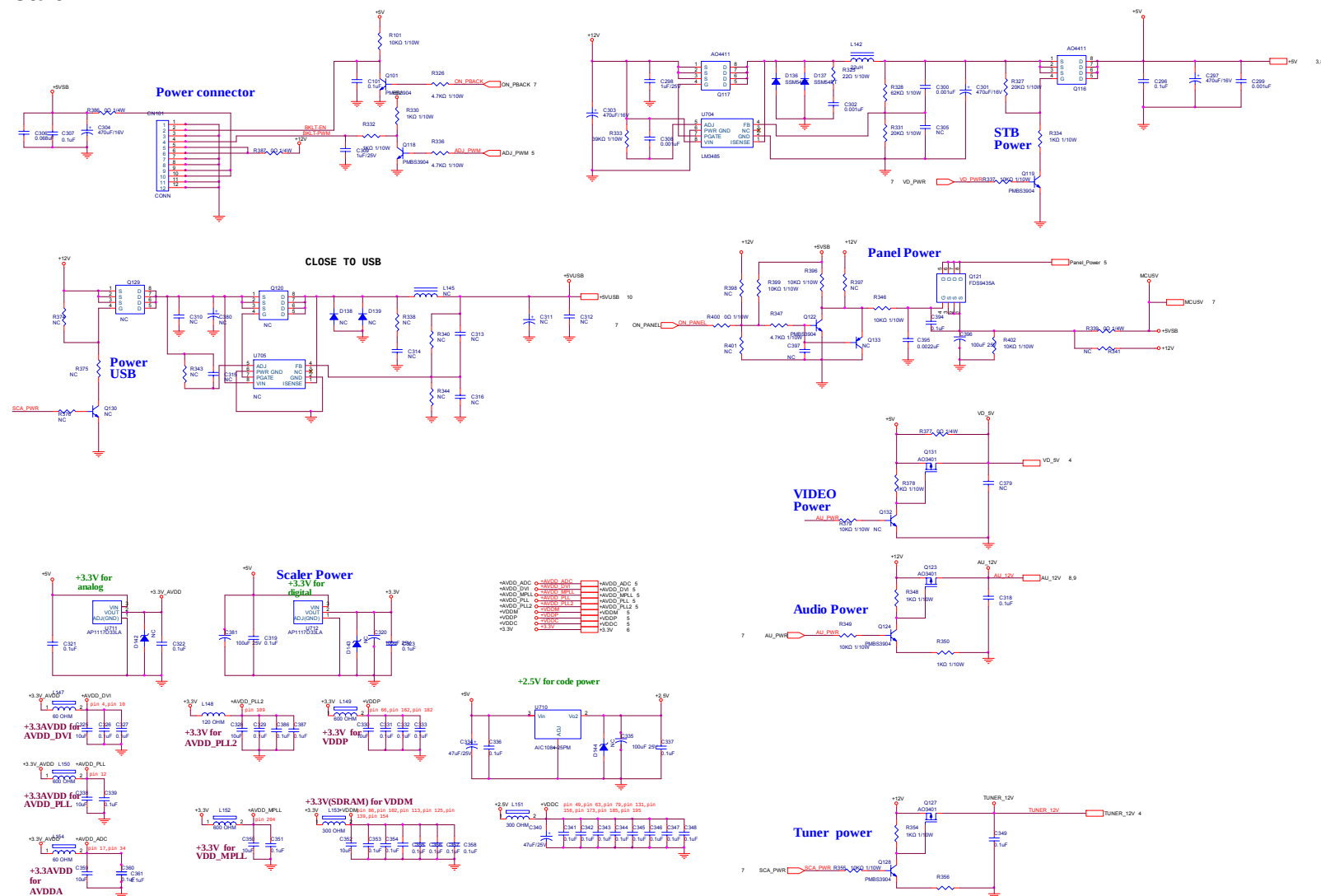
4.2 Electric Block Diagram

4.2.1 Main Board

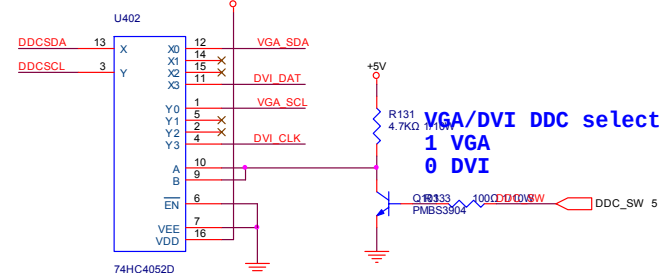
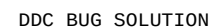


4.2.2 Inverter / Power Board

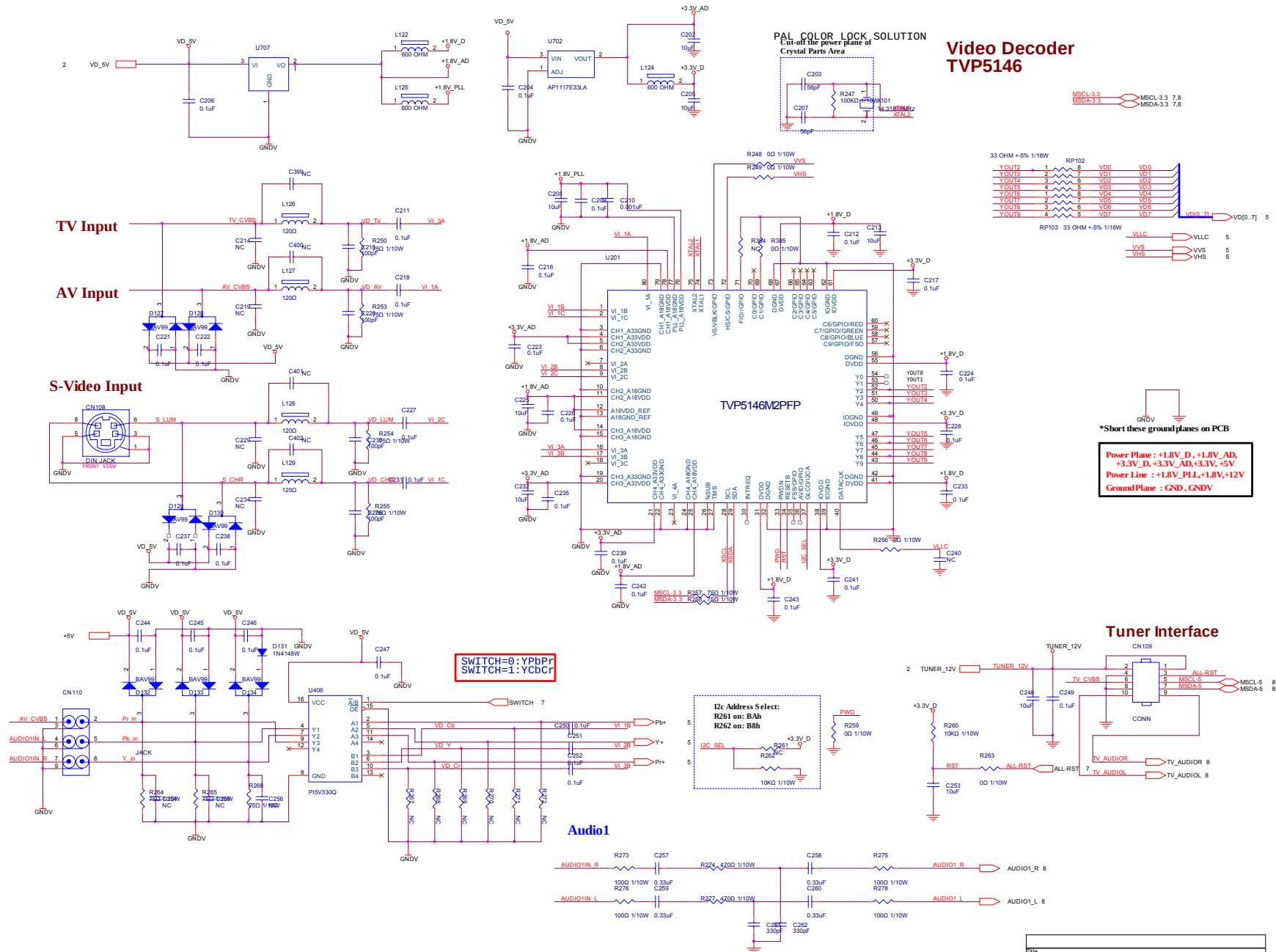


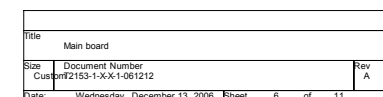


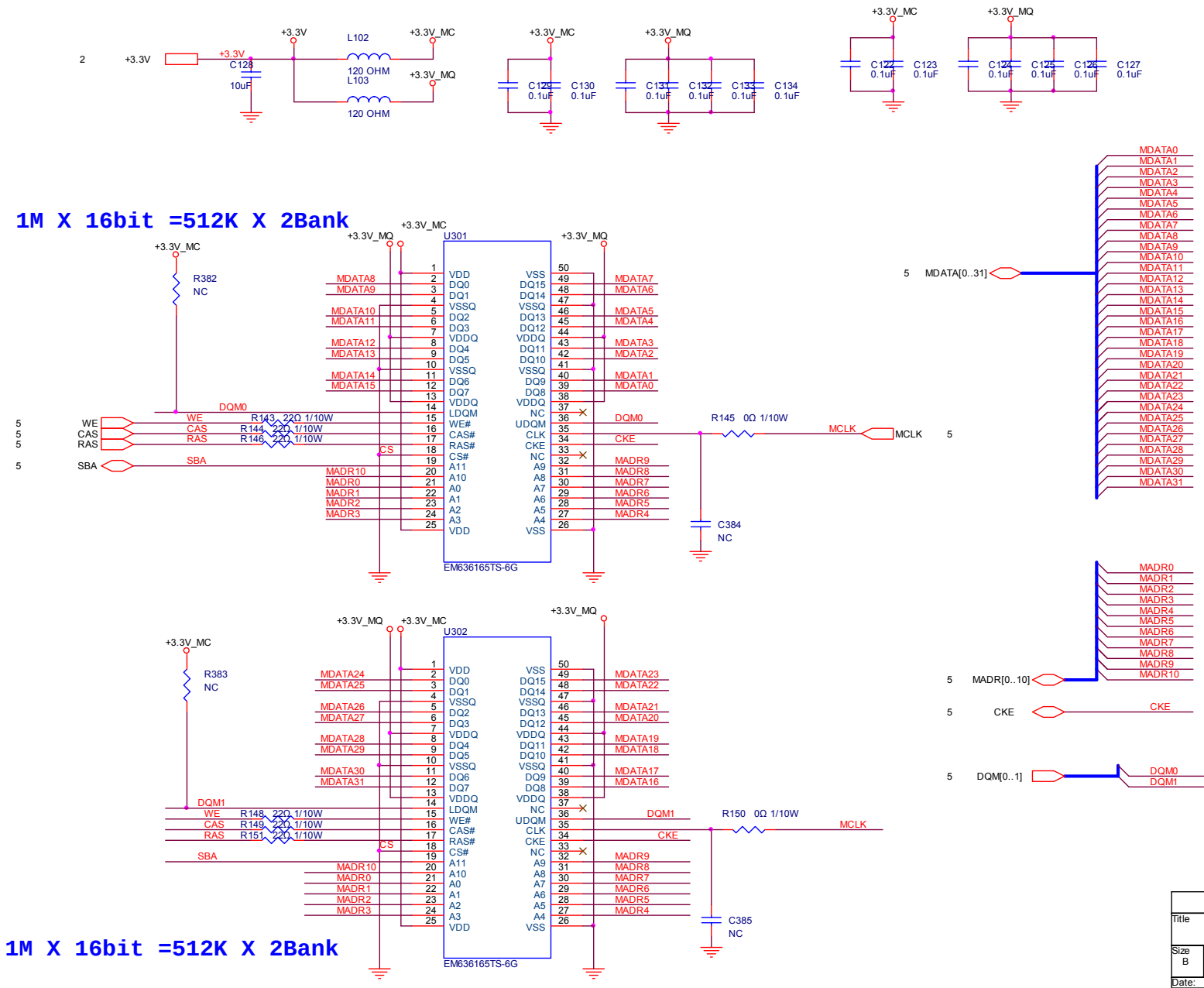
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Main board			
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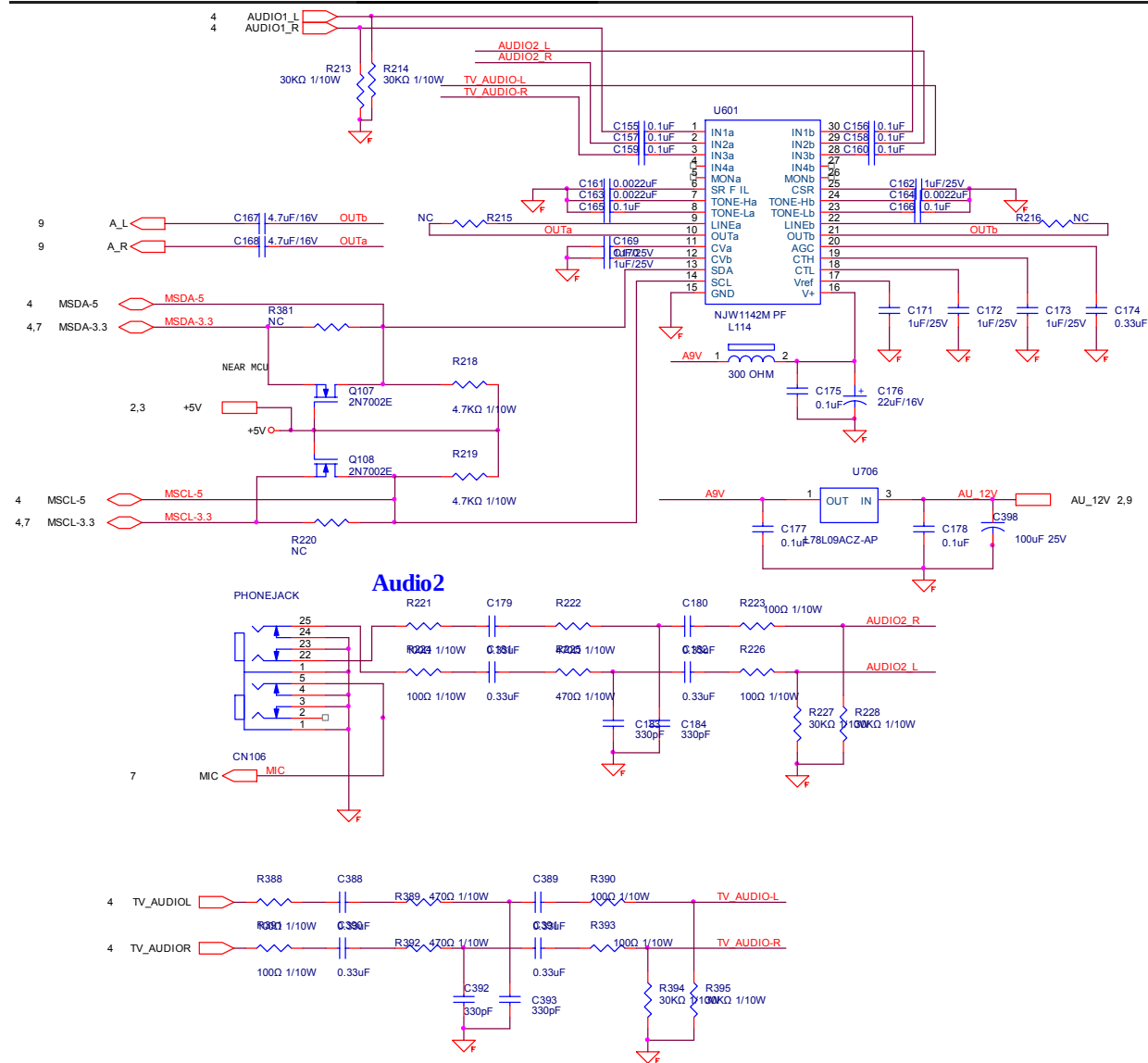




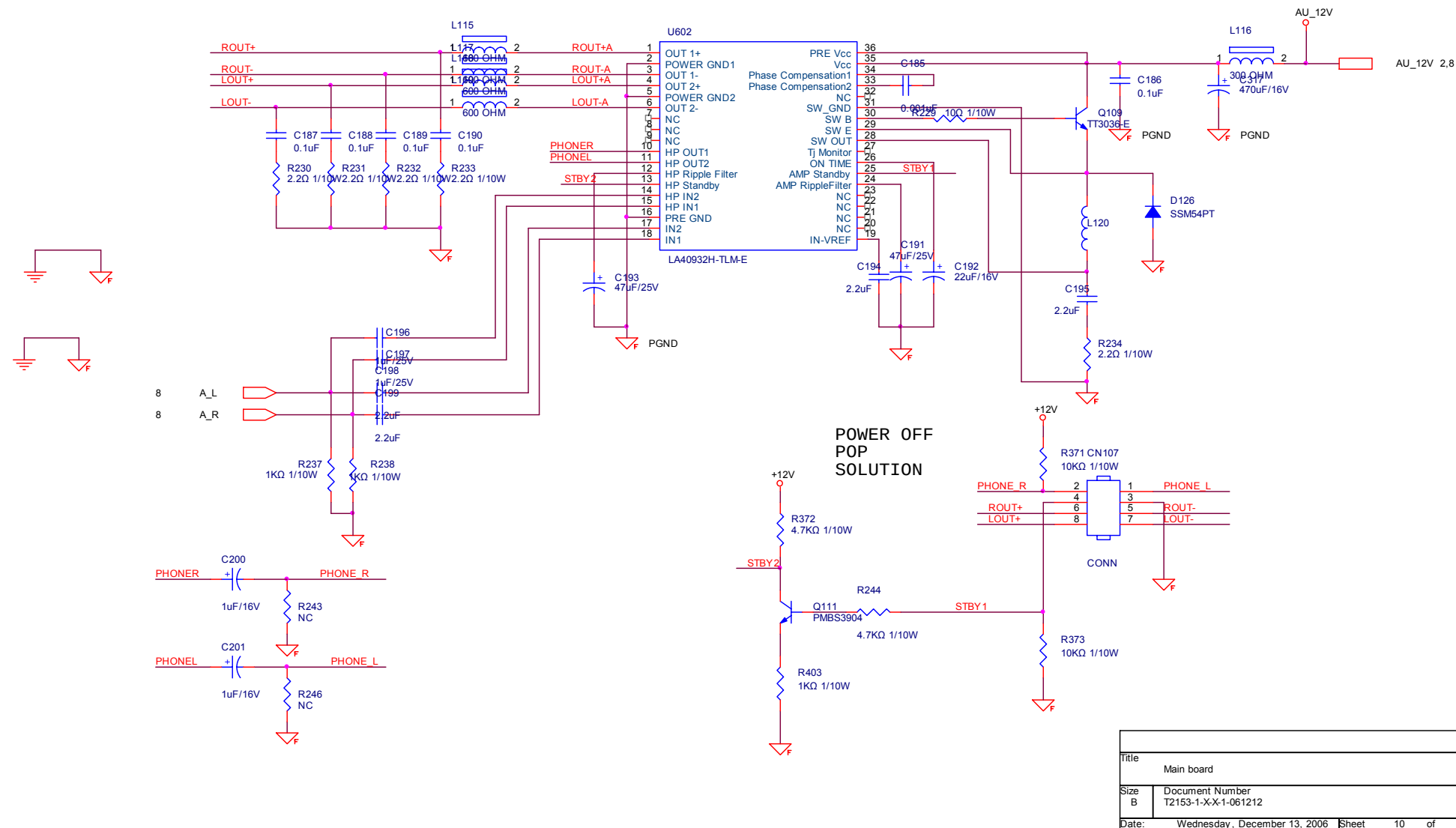




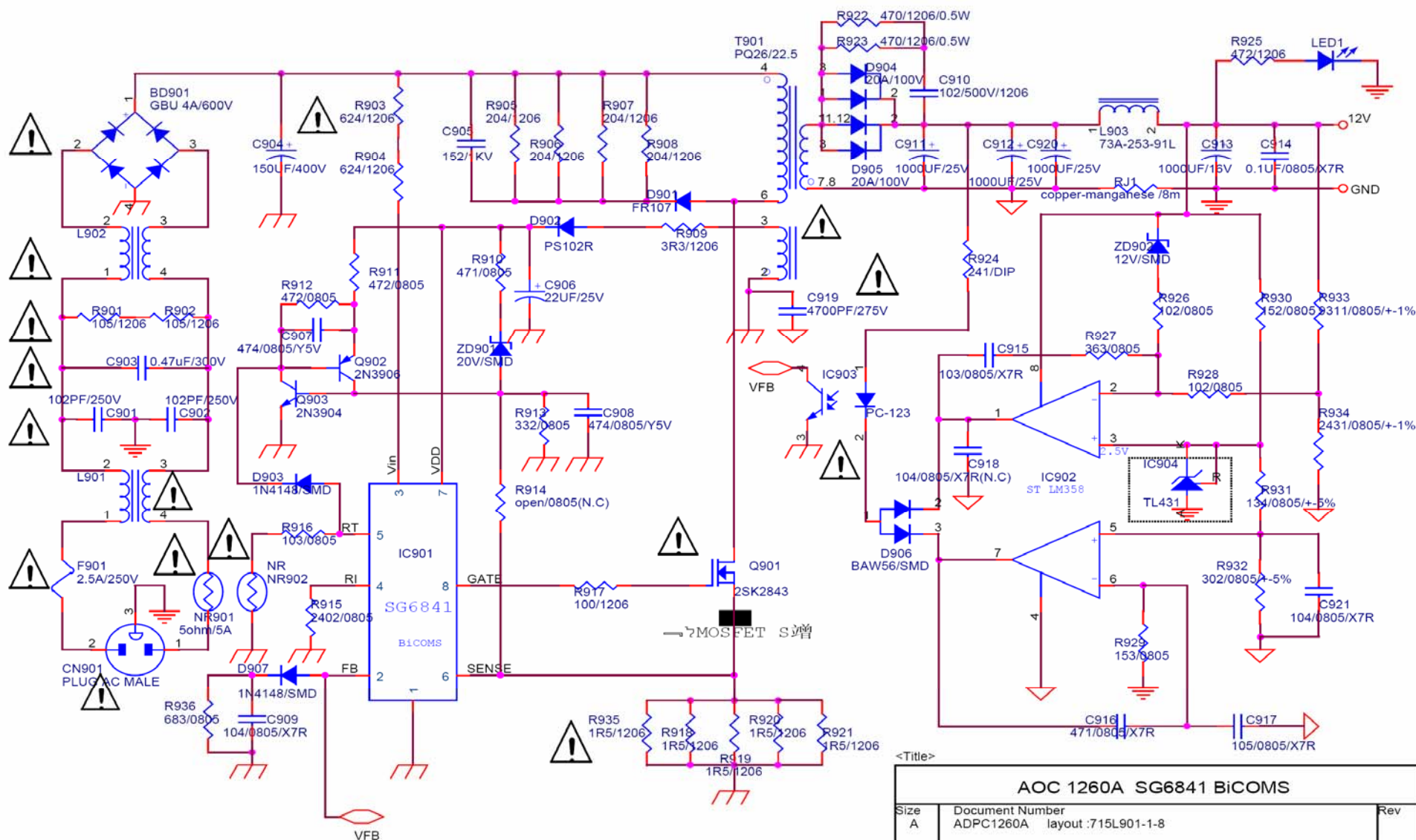
TPV



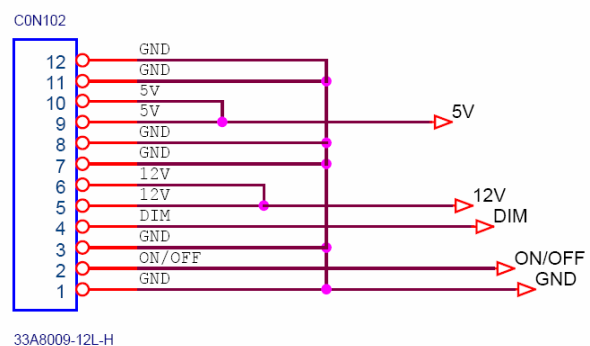
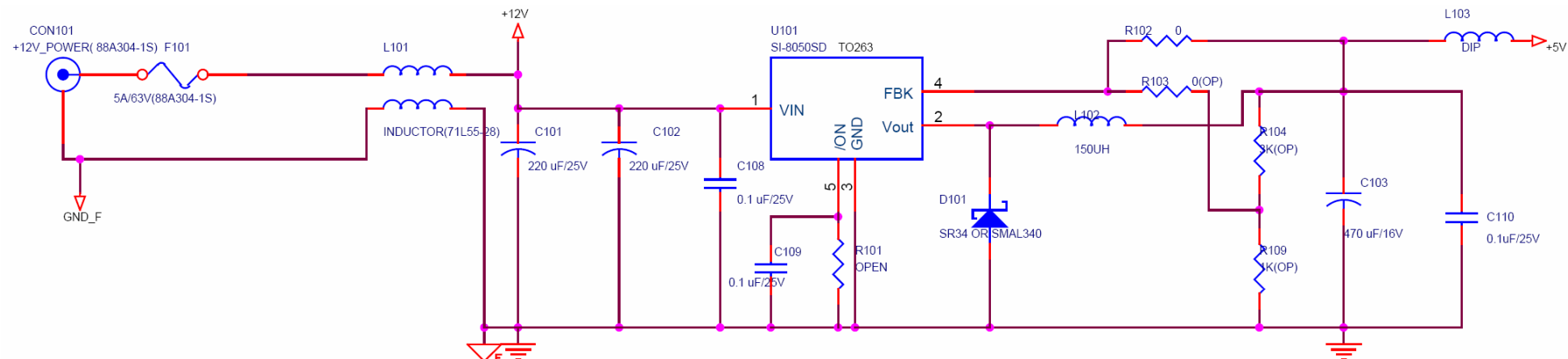
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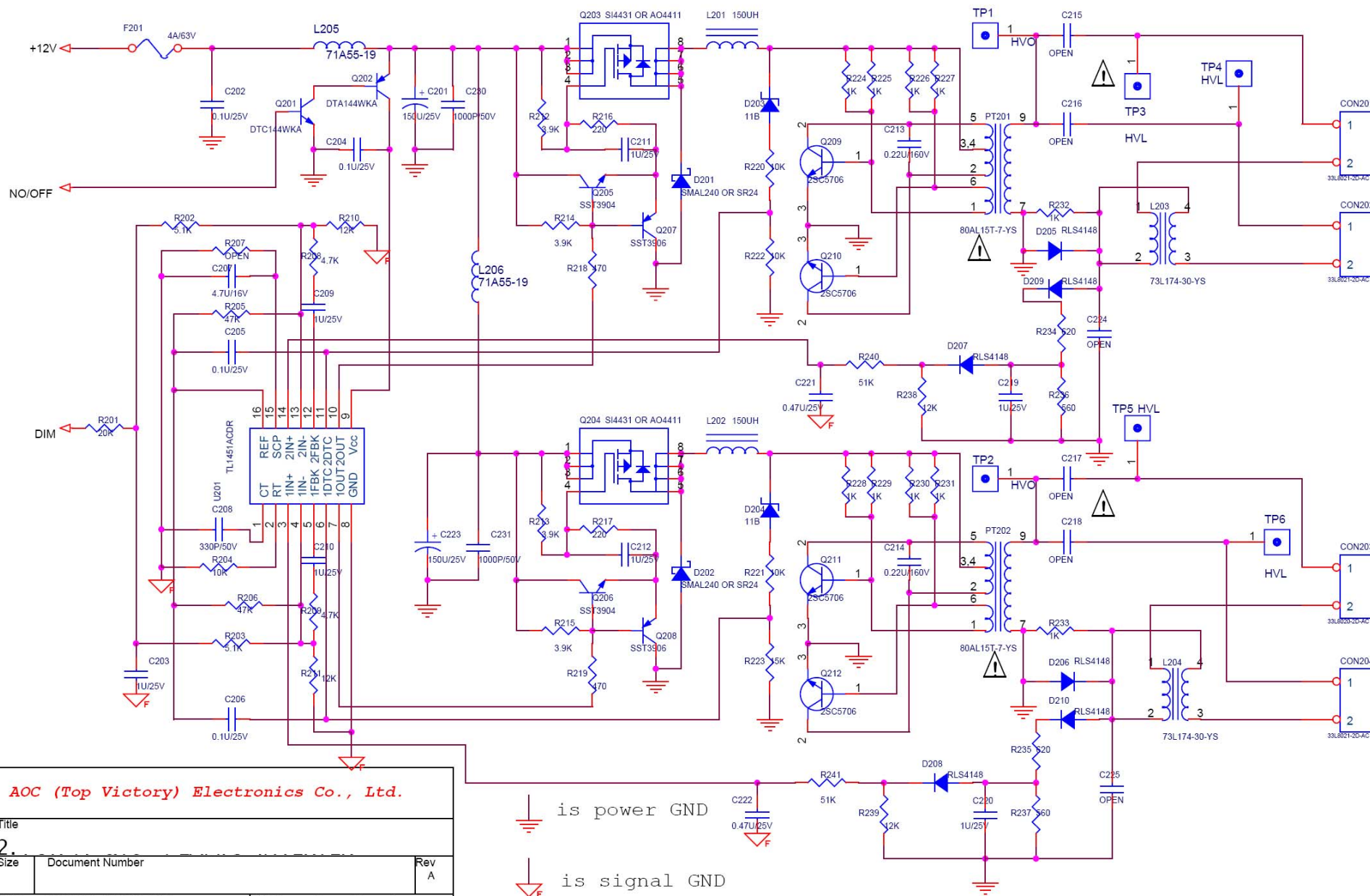


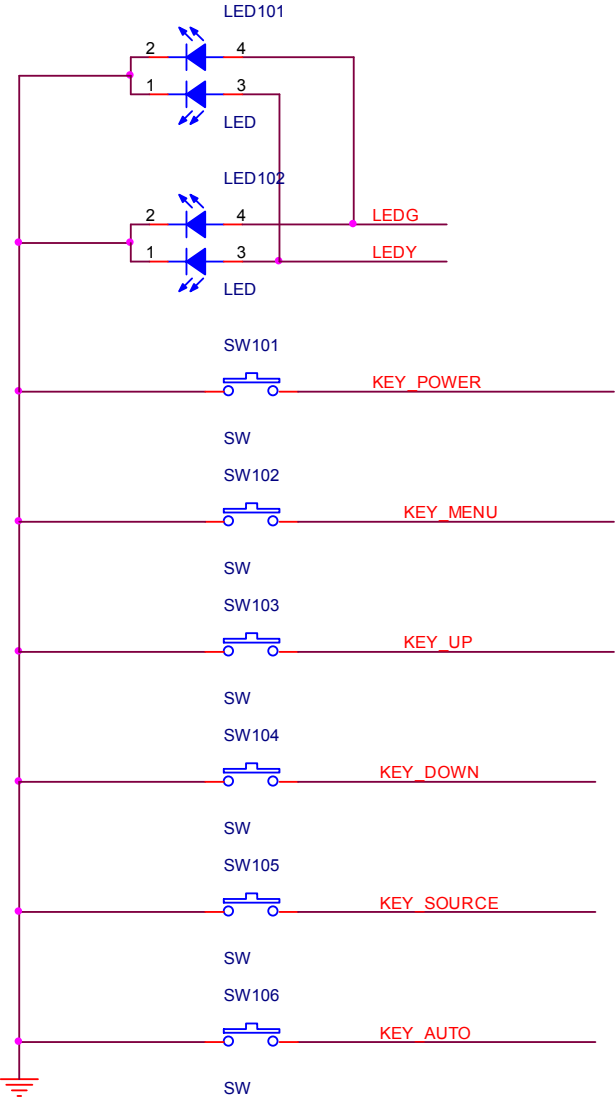
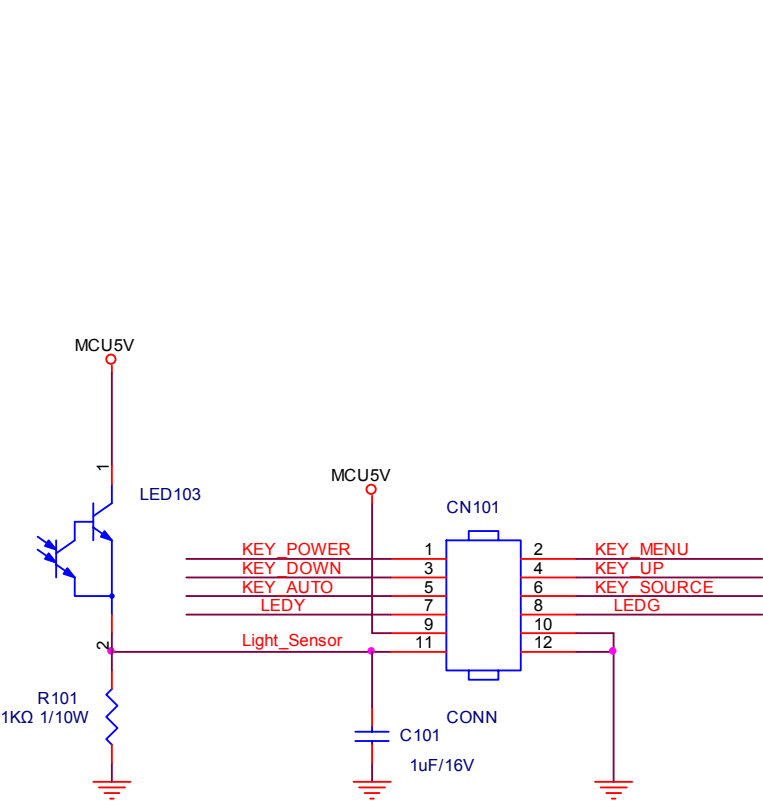
5.2 Power Board



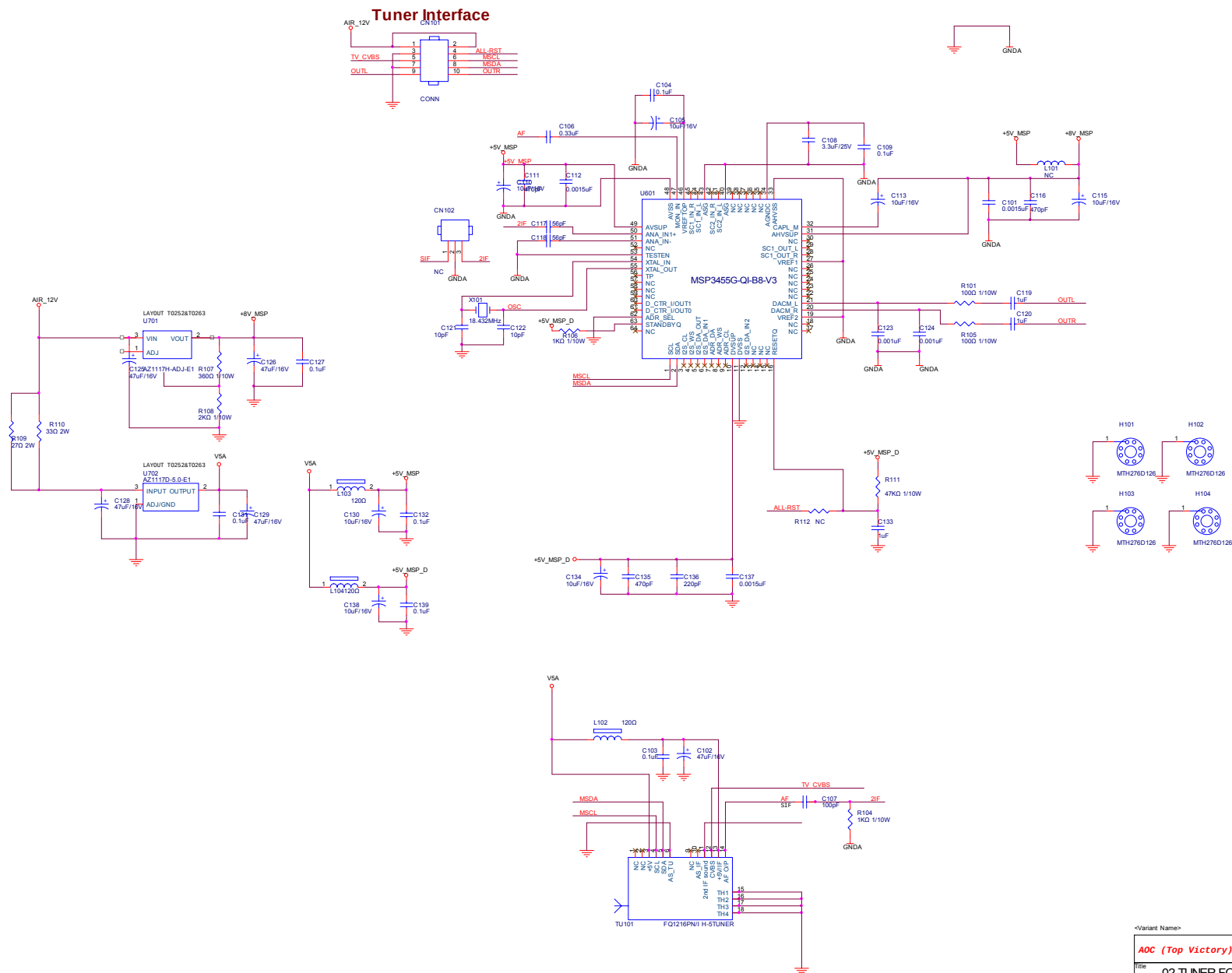
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Date: Wednesday, April 09, 2003	Sheet 1	of 1







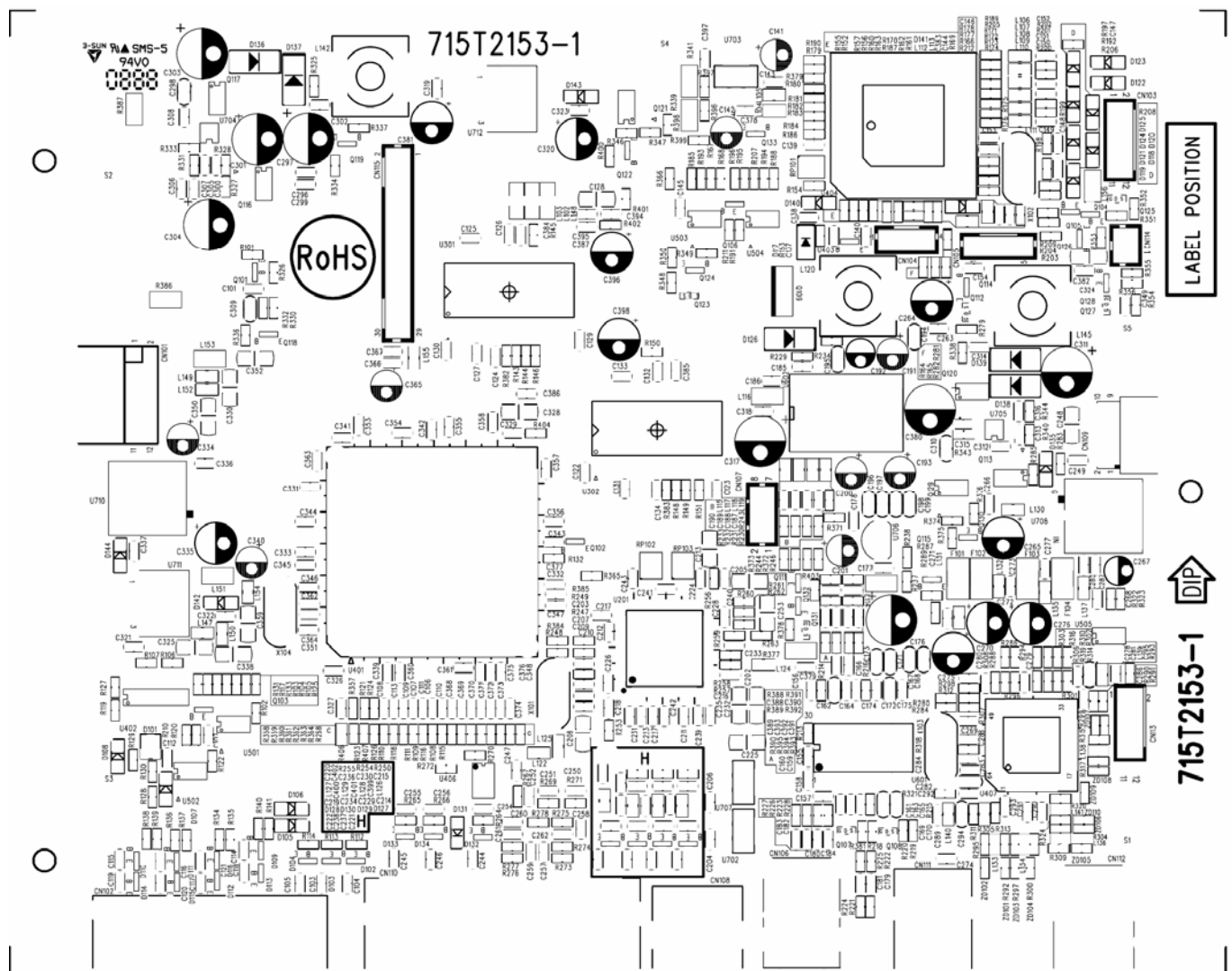
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Date:	Tuesday, December 12, 2006	Sheet	2 of 2

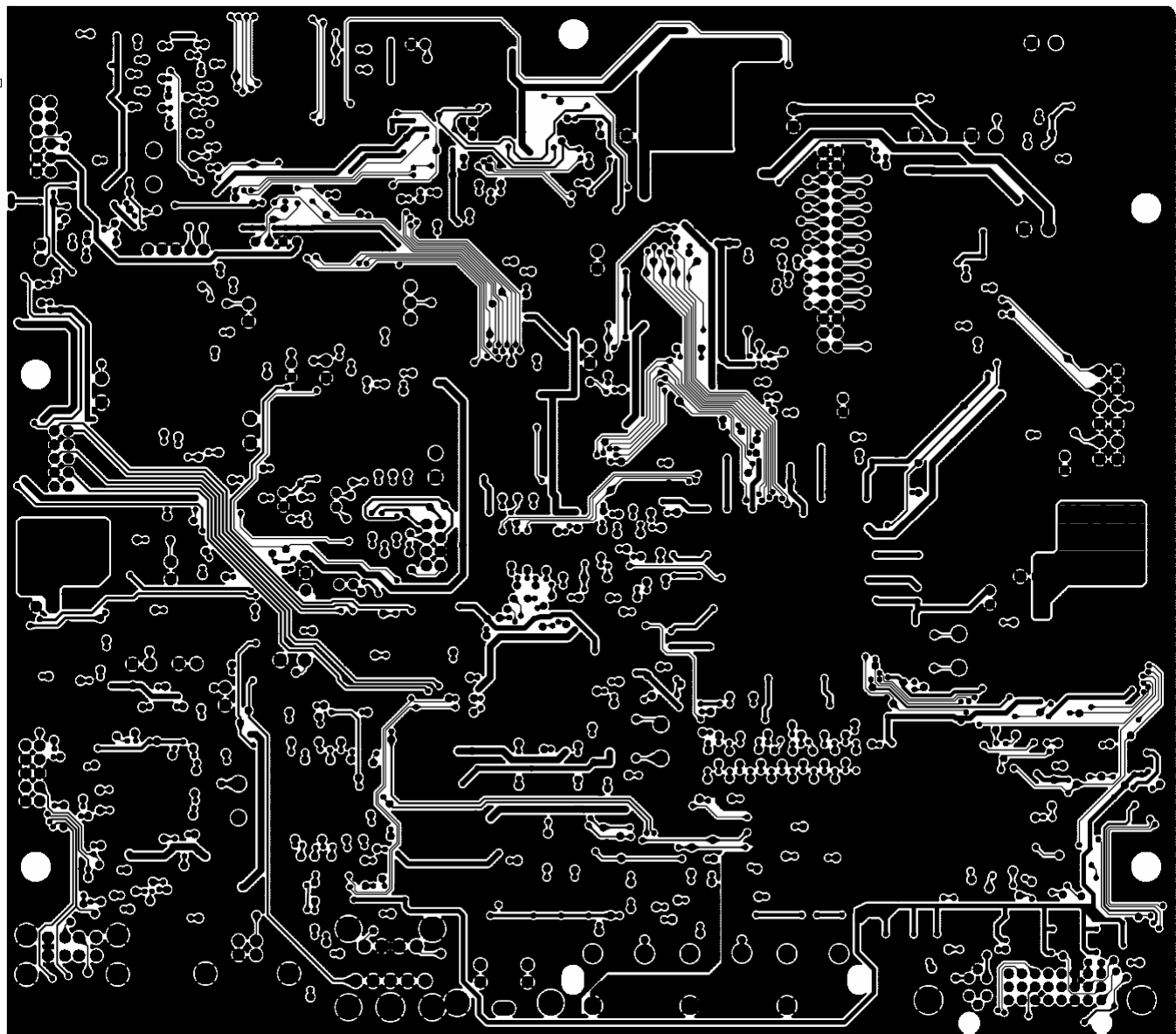


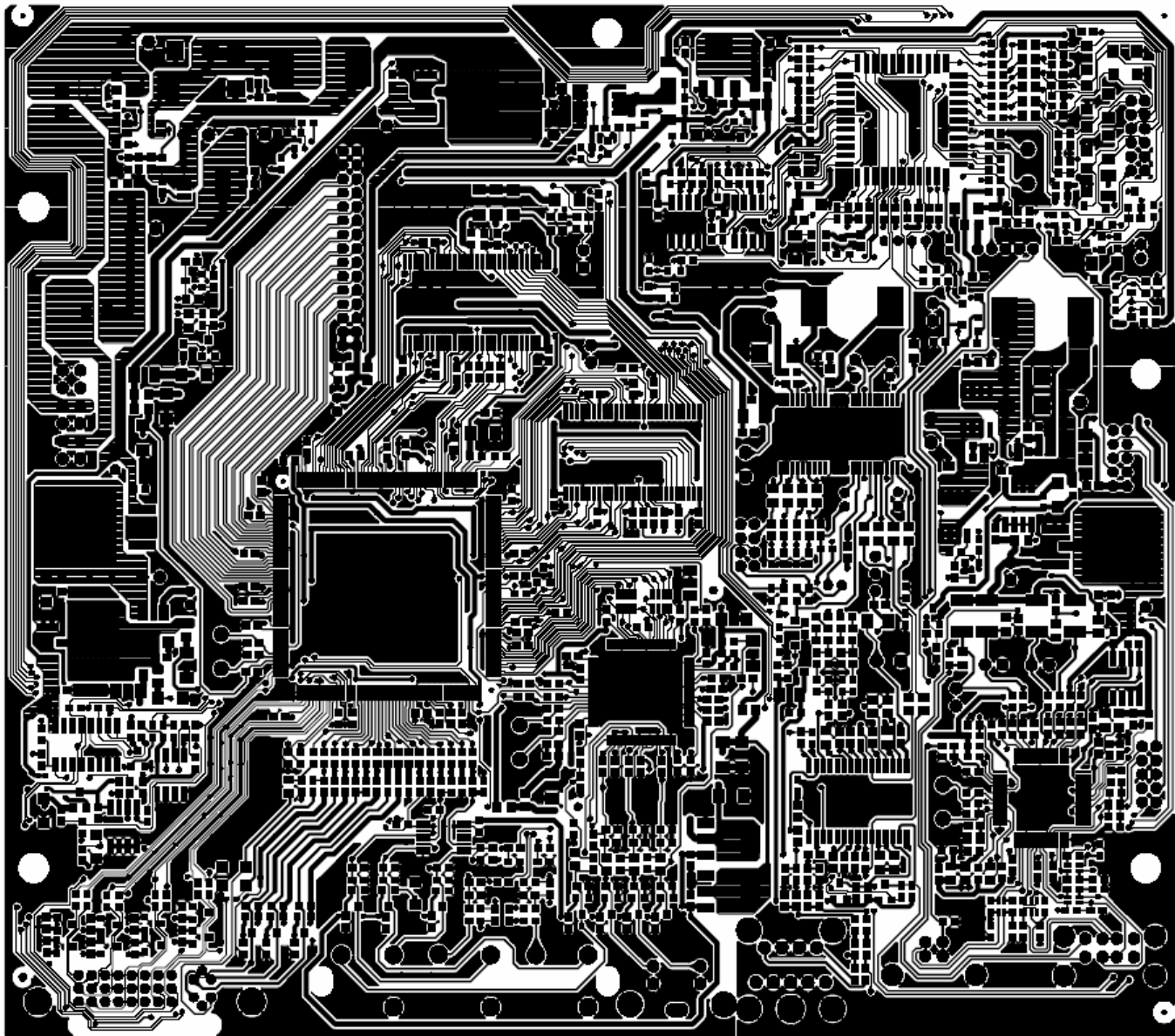
<Variant Name>	
AOC (Top Victory) Electronics Co., Ltd.	
Title	02.TUNER FOR NTSC PAL M/N
Size	Document Number T1968-1-X-X-1-061209
Date	Wednesday, December 13, 2006

6. PCB Layout

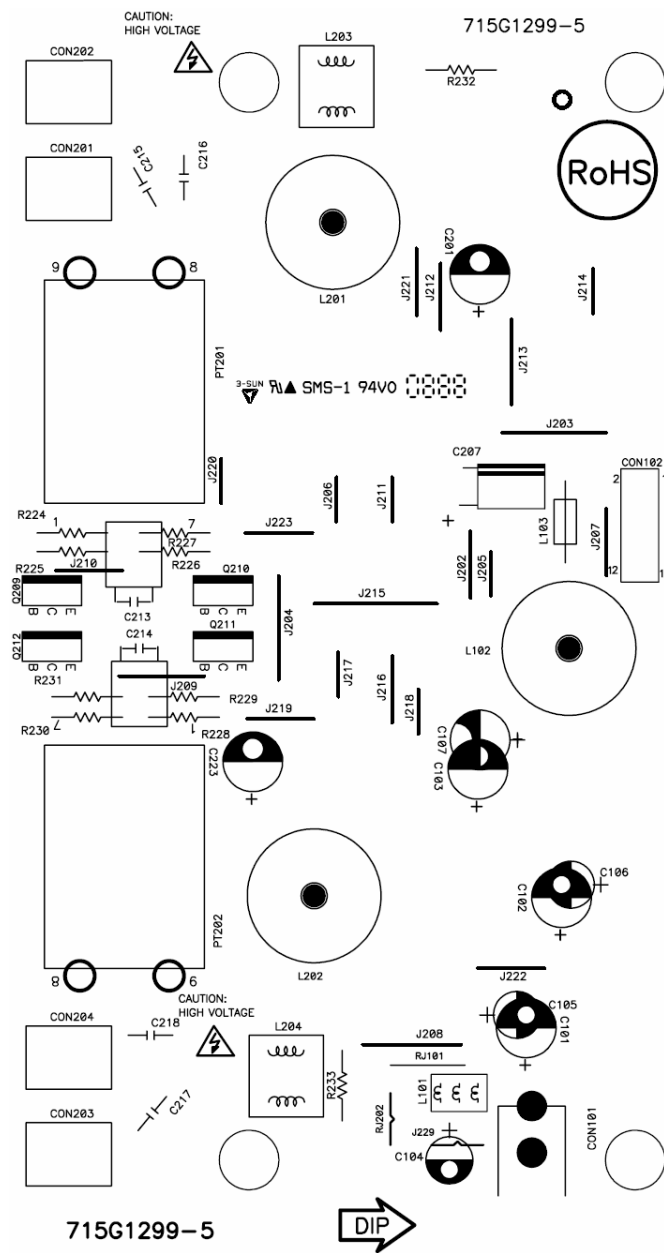
6.1 Main Board

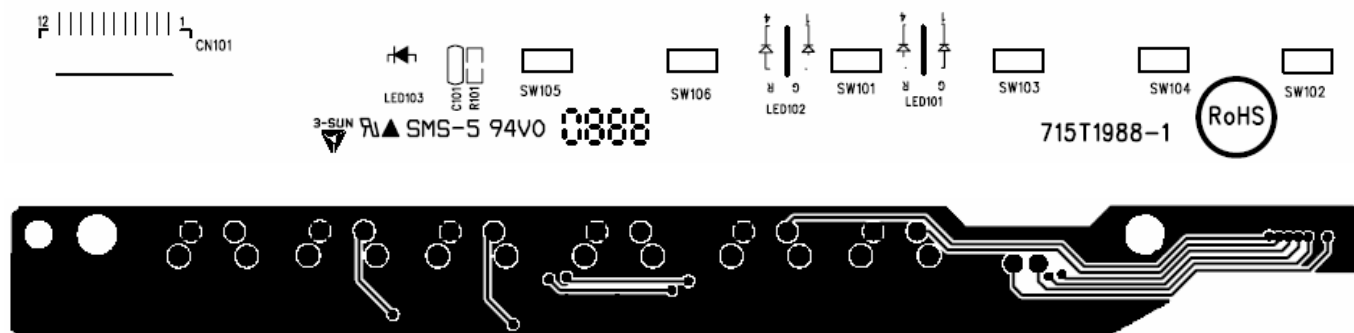




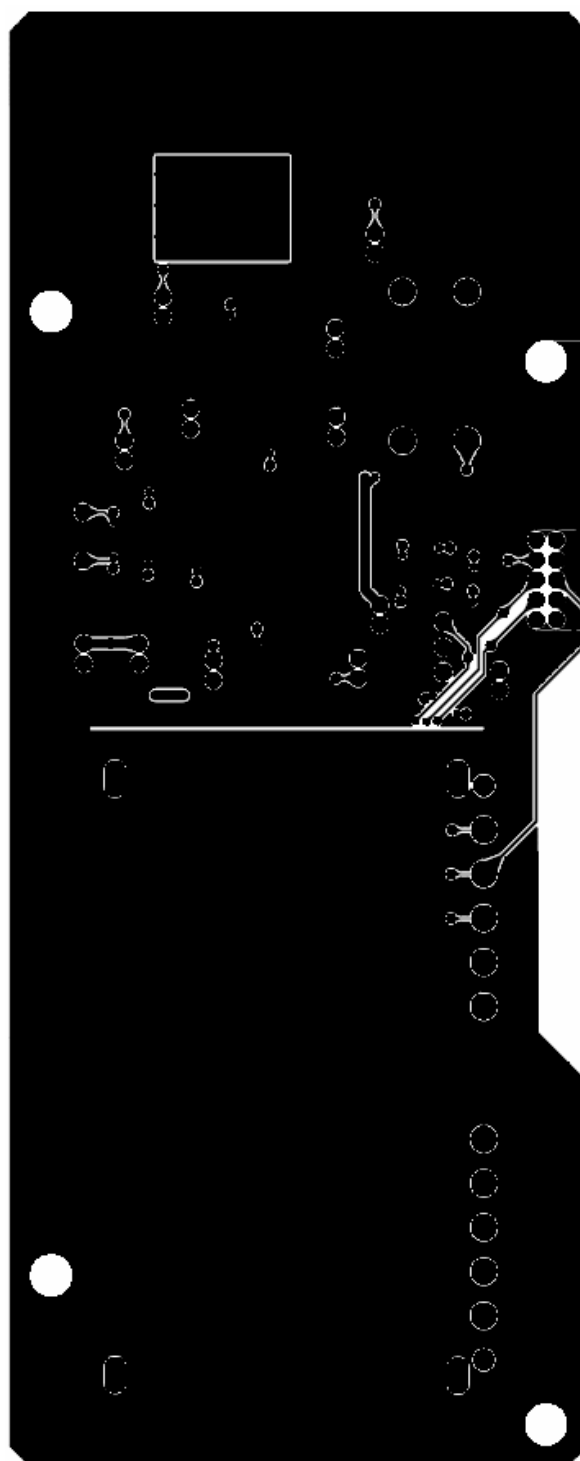
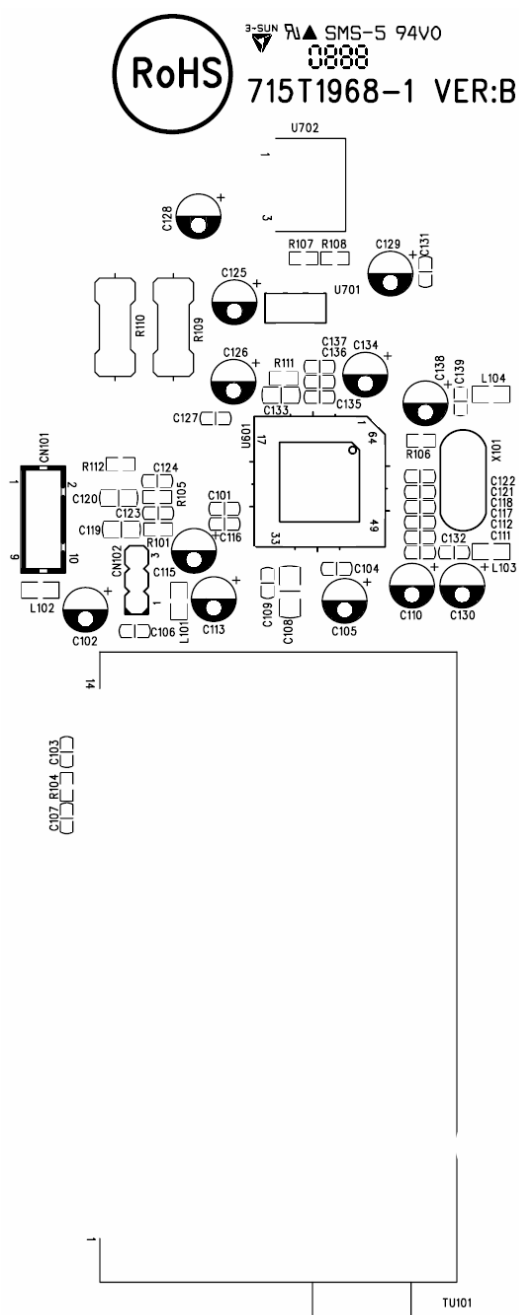


6.2 Power Board





6.4 Tuner Board



7. Maintainability

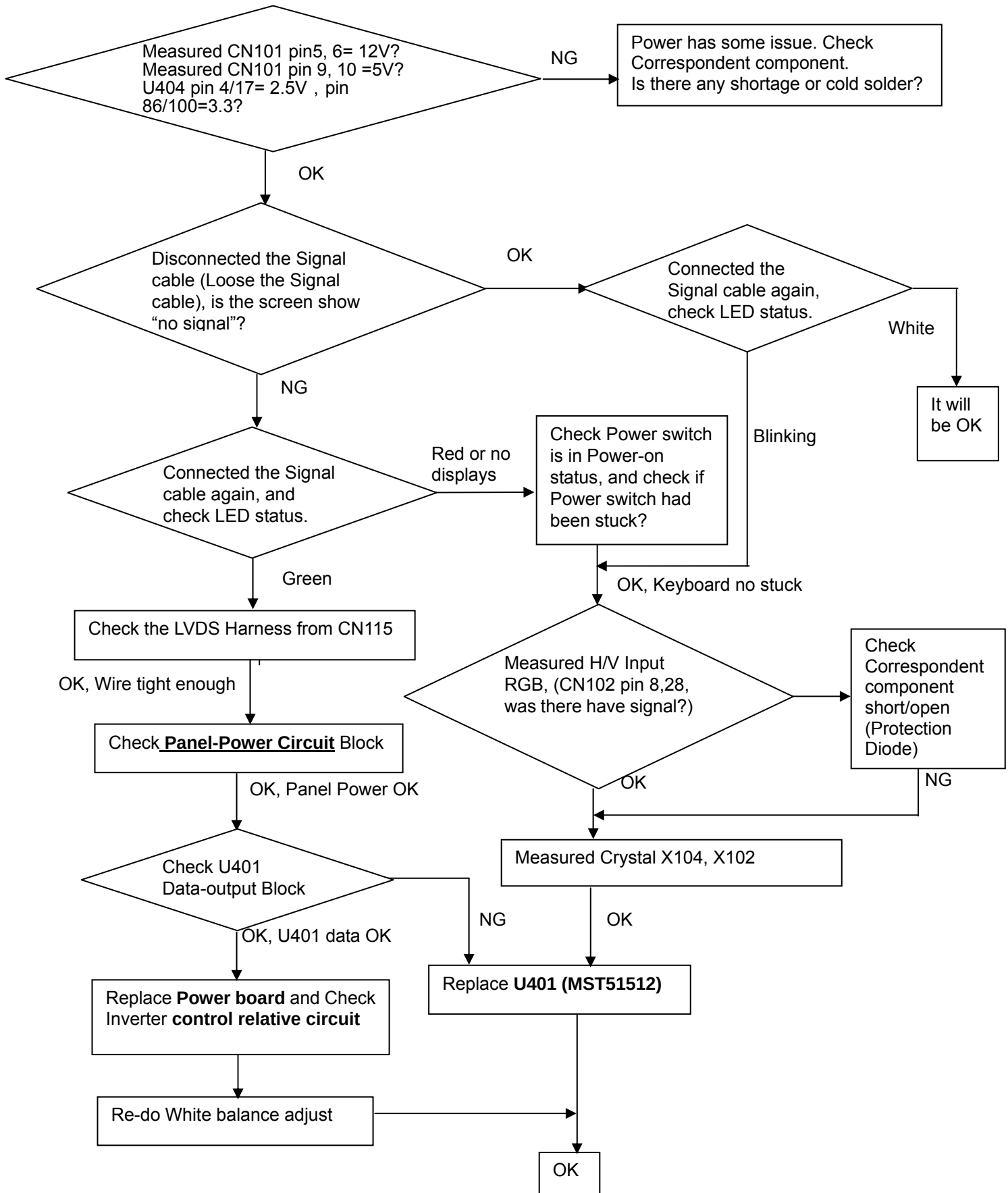
7.1 Equipments and Tools Requirement

1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

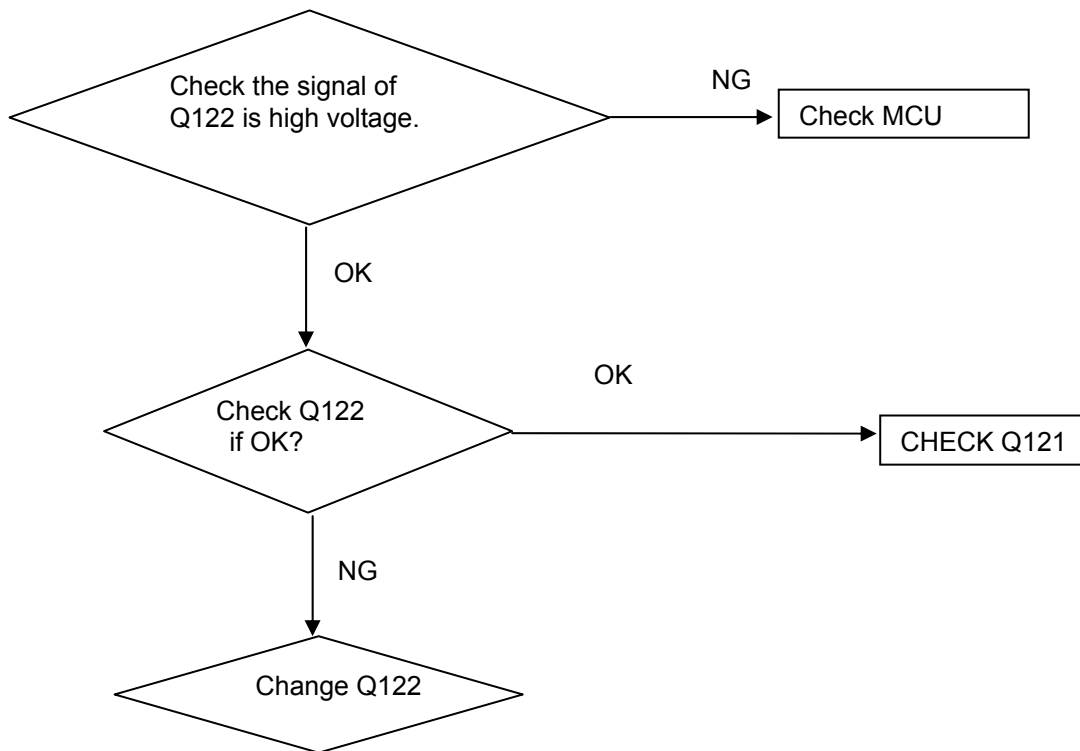
7.2 Trouble Shooting

7.2.1 Main Board

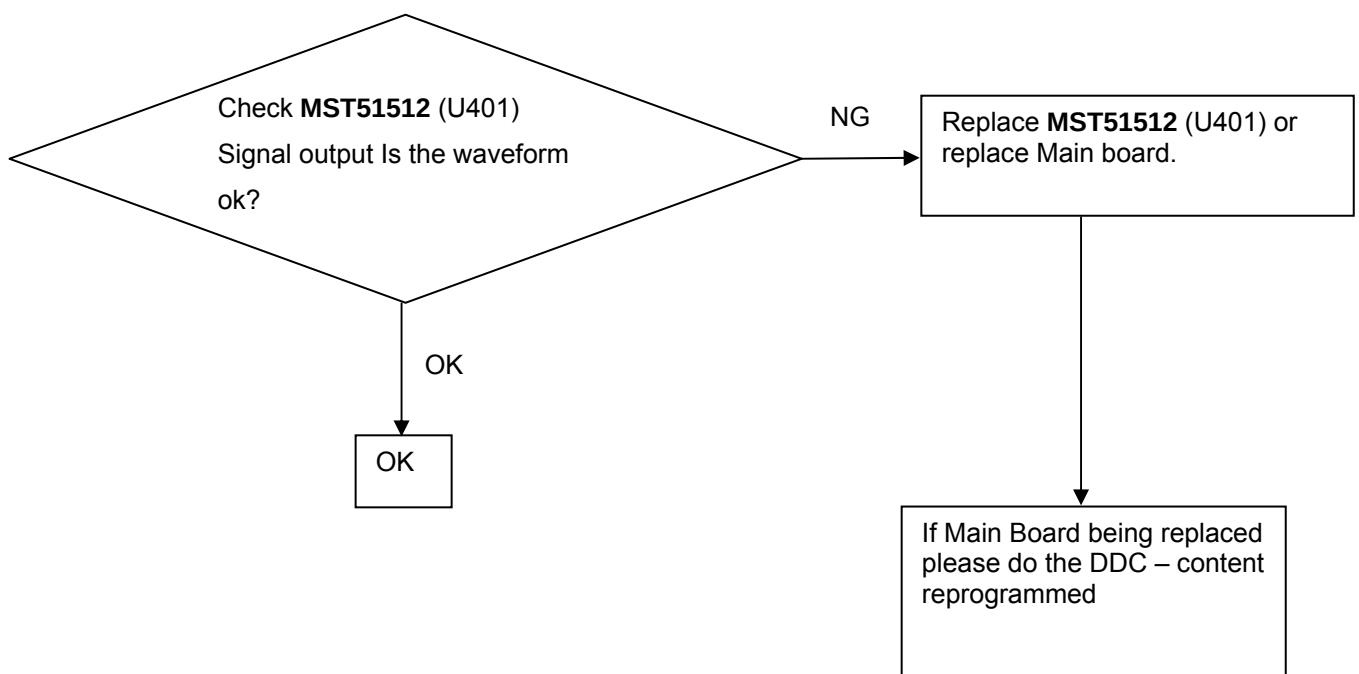
No Display on Screen



Panel Power Circuit

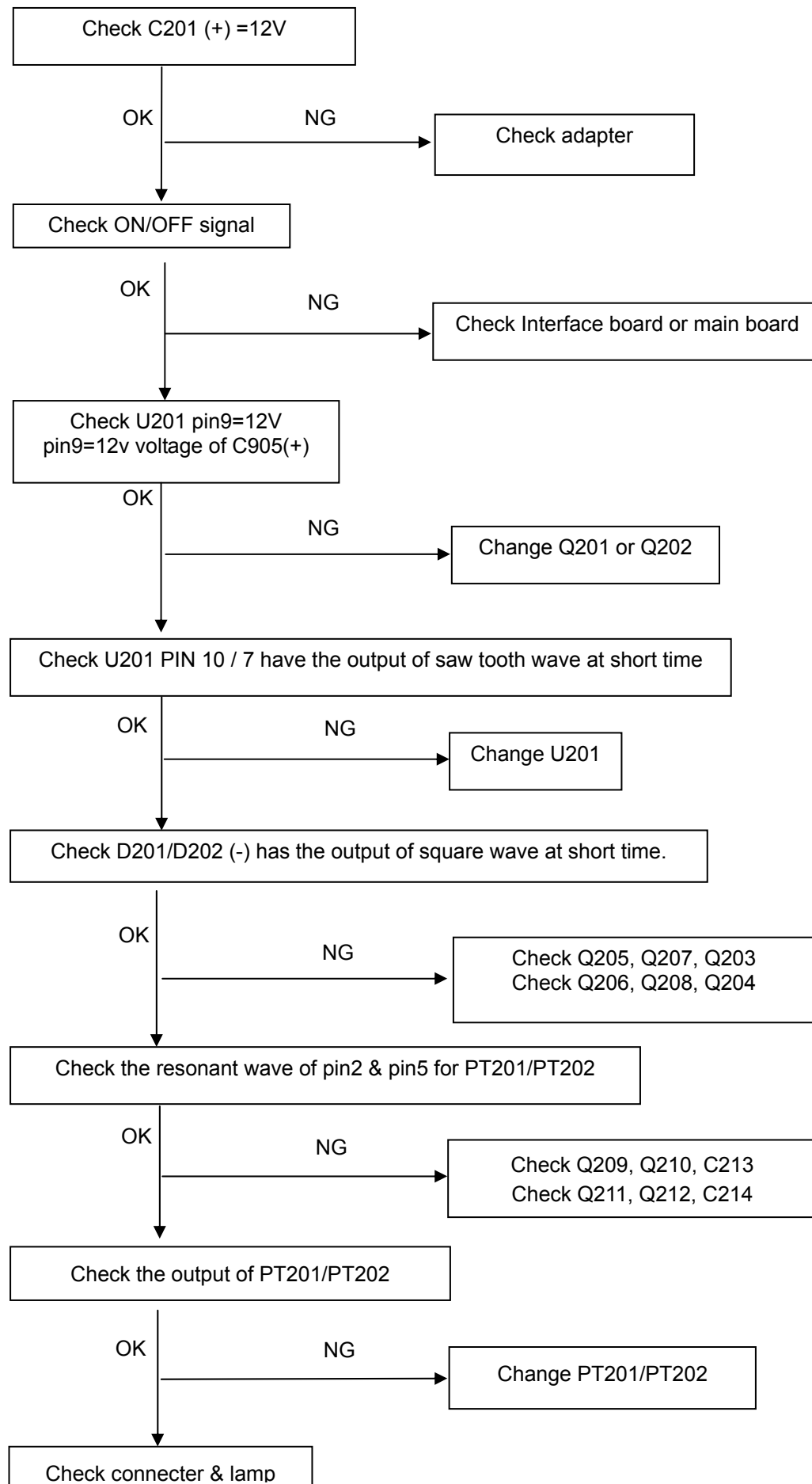


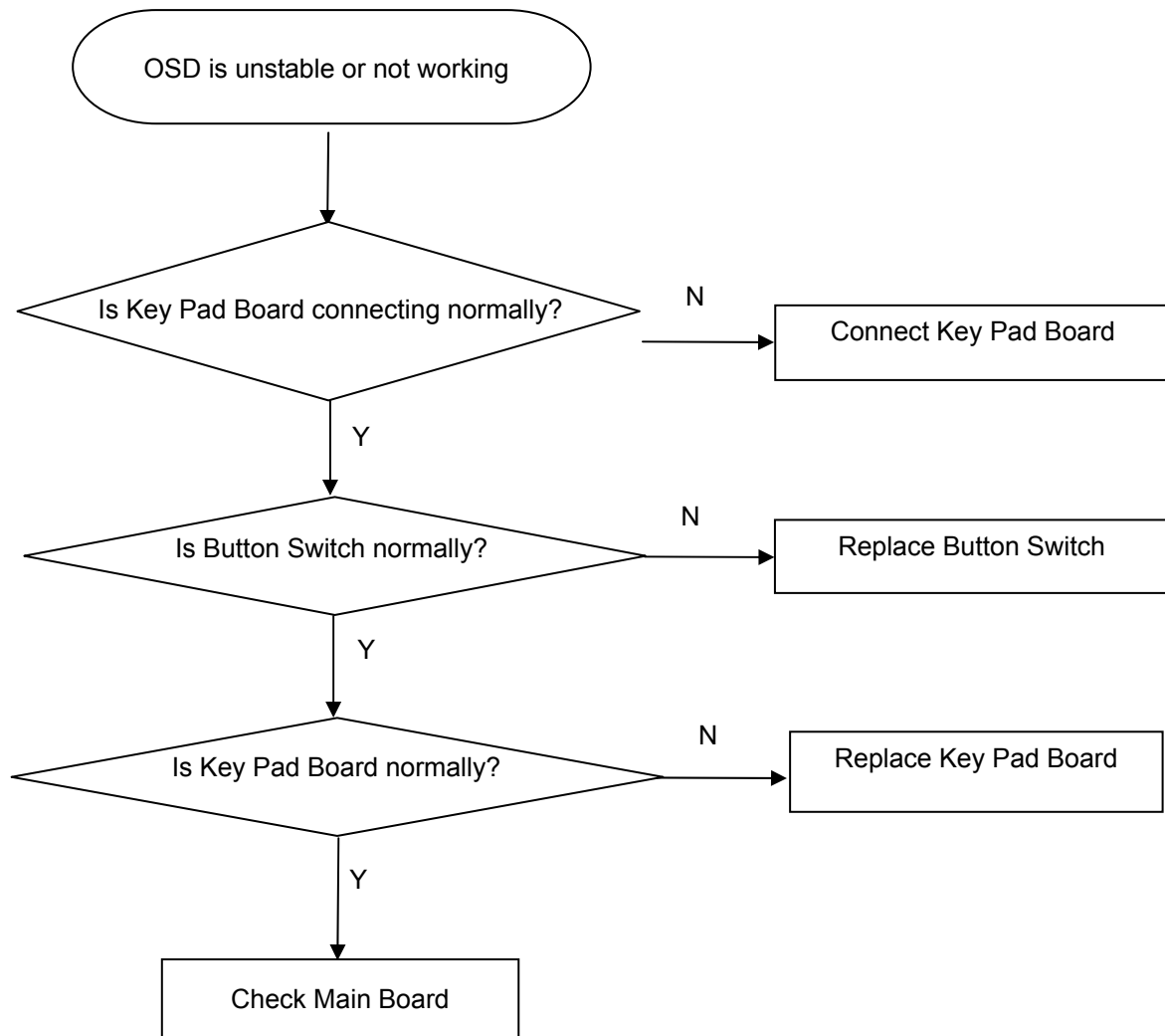
U401-Data Output



7.2.2 Power Board

W / LED, No Backlight



7.2.3 Keypad Board

8. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. How to do the Chroma-7120 MEM. Channel setting

A. Reference to chroma 7120 user guide

B. Use "SC" key and "NEXT" key to modify x,y,Y value and use "ID" key to modify the TEXT description Following is the procedure to do white-balance adjust

2. Setting the color temp. you want

A. MEM.CHANNEL 3 (9300 color):

9300 color temp. parameter is $x = 283 \pm 28$, $y = 297 \pm 28$, $Y = 200 \pm 30 \text{cd/m}^2$

B. MEM.CHANNEL 4 (6500 color):

6500 color temp. parameter is $x = 313 \pm 28$, $y = 329 \pm 28$, $Y = 220 \pm 30 \text{cd/m}^2$

C. MEM.CHANNEL 9 (5800 color):

5800 color temp. parameter is $x = 325 \pm 28$, $y = 341 \pm 28$, $Y = 220 \pm 30 \text{cd/m}^2$

D. MEM.CHANNEL 10 (sRGB)

sRGB color temp. parameter is $x = 313 \pm 28$, $y = 329 \pm 28$, $Y = 150 \pm 30 \text{cd/m}^2$

3. Enter into factory mode of M19W531

Turn on power, press the MENU button, pull out the power cord, and then plug the power cord. Then the factory OSD will be at the left top of the panel.

4. Gain adjustment:

Move cursor to "-F-" and press MENU key

A. Adjust 9300 color-temperature

1. Switch the Chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM. Channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 283 \pm 28$, $y = 297 \pm 28$, $Y = 200 \pm 30 \text{cd/m}^2$
4. Adjust the RED of color 1 on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN of color 1 on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE of color 1 on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

B. Adjust 6500 color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 4 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 28$, $y = 329 \pm 28$, $Y = 220 \pm 30 \text{cd/m}^2$.
4. Adjust the RED of color 2 on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN of color 2 on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE of color 2 on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

C. Adjust 5800 color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM.channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show 325 ± 28 , $y = 341 \pm 28$, $Y = 220 \pm 30 \text{cd/m}^2$
4. Adjust the RED of color 3 on factory window until chroma 7120 indicator reached the value $R=100$
5. Adjust the GREEN of color 3 on factory window until chroma 7120 indicator reached the value $G=100$
6. Adjust the BLUE of color 3 on factory window until chroma 7120 indicator reached the value $B=100$
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

D. Adjust sRGB color temp.

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)

2. Switch the MEM.channel to Channel 9 (with up or down arrow on chroma 7120)
 3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 28$, $y = 329 \pm 28$, $Y = 150 \pm 30 \text{cd/m}^2$
 4. Adjust the RED of color 3 on factory window until chroma 7120 indicator reached the value $R=100$
 5. Adjust the GREEN of color 3 on factory window until chroma 7120 indicator reached the value $G=100$
 6. Adjust the BLUE of color 3 on factory window until chroma 7120 indicator reached the value $B=100$
 7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$
- D. Turn the Power-button off to quit from factory mode.

9. Monitor Exploded View

MAIN COMPONENT LIST

NO.	PART NAME	PART NUMBER	QUANTITY
1	Cosmetic cover	Q27G002-1	1PCS
2	Bezel	CB4G013-1	1PCS
3	Speaker		2PCS
4	Panel		1PCS
5	Main frame	Q15G010-1	1PCS
6	Ear phone PCB		1PCS
7	Tuner PCB		1PCS
8	IR & M.C PCB		1PCS
9	Main PCB		1PCS
10	Inverter PCB		1PCS
11	On t.c generator		1PCS
12	Main shield	Q85G009-1	1PCS
13	Rubber foot	Q12G300-16	2PCS
14	Hinge BKT	Q15G011-1	1PCS
15	Hinge	Q17G059-1	1PCS
16	Stand	Q10G028-1	1PCS
17	Bluetooth PCB		1PCS
18	Key PCB		1PCS
19	Function key L	Q33G007-1	1PCS
20	Power key	Q33G008-1	1PCS
21	Function key R	Q33G008-1	1PCS
22	USB PCB		1PCS
23	USB shield	Q85G010-1-S	1PCS
24	Back cover	CB4G014-1	1PCS
25	Rear cover	CB4G015-1	1PCS

SCREW LIST

NO.	PART NAME	PART NUMBER	QUANTITY
1	Panel & Main frame	MIG30-6-128	4PCS
2	Inverter PCB & Main frame	MIG730-6-128	4PCS
3	Main PCB & Main frame	MIG730-6-128	4PCS
4	Tuner PCB & Main frame	MIG730-6-128	4PCS
5	USB PCB & Main frame	MIG730-6-128	2PCS
6	Ear phone PCB & Main frame	MIG730-6-128	2PCS
7	For Rear cover & Bezel	MIG040-8-128	1PCS
8	For Hinge & Stand	Q1240-10-128	3PCS
9	For Hinge & Rear cover	MIG740-10-128	3PCS
10			
11			
12			
13			
14			
15			
16			

注：198PW5A (M19W531) 机种无零件11、17、22

FIRST USED ON

PART NO.

REVISION

VERSION A

TOP VICTORY ELECTRONICS

TEL:86-591-5285555

FAX:86-591-5285447

DRAWN BY: Bright.chen

CHECKED BY:

APPROVED BY:

MATERIAL:

PART NAME:

UNIT:

SCALE:

DATE: FEB-10-2006

VERSION:

10. BOM List**V196HXNSW9AENP**

Location	Part No.	Description
	026T 800504 3	BARCODE LABEL
	040T 58162435A	LABEL
	045T 76 28 C	PE BAG FOR MANUAL
	045T 88626 8	PE BAG FOR MOUITOR
	050T 600 2	HANDLE1
	050T 600 3	HANDLE2
	052T 1185	MIDDLE TAPE FOR CARTON
	052T 1186	SMALL TAPE
	052T 1210 A	ALUMINIUM TAPE
	052T6020 17	PROTECT FILM
	089T 173 56 18	AUDIO CABLE
	089T 173 56 34	RCA CABLE
	089T 173 56552	AUDIO CABLE
	089T 181 4 5	S-VIDEO CABLE
	089T 925GAA550	SIGNAL CABLE DVI-DSUB
	089T402A15N IS	POWER CORD
	092TC1LI3CD1GT	BATTERY 3V LITHIUM CR2025 GAONENGDA
	095T 900600	HARNESS
	095T8014 5 54	WIRE HARNESS
	095T8014 8 52	WIRE HARNESS
	095T8014 10 43	WIRE HARNESS
	095T8014 12 61	WIRE HARNESS
	095T8018 30127	LVDS CABLE
	098TR7GW3CCACT	REMOTE CONTROL YKF106-041
	0M1T 330 5120	SCREW
	0M1T 330 5120	SCREW
	0M1T 330 6 47 CR3	SCREW
	0M1T 330 6120	SCREW
	0M1T1730 6120	SCREW 3*6MM
	0M1T1730 6120	SCREW 3*6MM
	0M1T1730 6120	SCREW 3*6MM
	0M1T1730 6120	SCREW 3*6MM
	0Q1T 330 8120	SCREW 3X8MM
	0Q1T 330 8120	SCREW 3X8MM
	0Q1T 330 10 47 CR3	SCREW
	0Q1T 930 6120	SCREW
	705TQ9K0F34005	19" LCD BEZEL ASS'Y
	078T 311 10 Y	SPK 16OHM 3W 57.5X23MM 350MM SUNLINK
	0Q1T 330 8120	SCREW 3X8MM
	0Q1T1030 8120	SCREW
	0Q1T1030 8120	SCREW
	AM1T1740 12125	SCREW
	Q12T6300 16	RUBBER FOOT
	Q15T0011 1	HINGE BKT
	Q27T6002 1	AL COSMETIC COVER
	Q33T0007 1B1C	KEY PAD
	Q33T0008 1 1C	LENS

	Q34T0013 XWB1L	BEZEL(19")
	Q34T0014 GM 1L	REAR COVER
	705TQ9K0P34005	19" LCD STAND COVER ASS'Y
	033T5029 WF X GP	STAND FOOT
	0M1T 130 6120	SCREW
	Q33T0032 GM 1L	HINGE COVER L
	Q33T0033 GM 1L	HINGE COVER R
	Q37T6059 1	HINGE
	750TVH90GW112N	PANEL HSD190MGW1-A00 HSD
	ADPC1260A5P	LCD ADAPTER BOARD ASS'Y
	040G 154501 1	HI-POT GND LABEL
	040G 581700 6A	LABEL
	040G500B615 1C	RATING LABEL
	045G 88525 E	PE BAG
	052G 1211 A	165MINIUM TAPE
IC903	056G 139 7 1	IC EL817MA M-TYPE
IC903	056G 139 3A	PC123Y22FZOF
IC903	056G 139 3B	PC123 Y82FZ0F
NR901	061G 58050 WT	NTC 5 OHM 5A
C903	063G107K474 HS	X2 CAP 0.47UF K 275VAC
C901	065G305M1022E2	1000P 400VAC/250VAC
C902	065G305M1022E2	1000P 400VAC/250VAC
C901	065G305M1022E3	1000PF. M.250VAC.Y2
C902	065G305M1022E3	1000PF. M.250VAC.Y2
C919	065G306M4722BP	4700PF +-20% 400VAC
C904	067G 30515114H	150UF 400V HERMEI
C920	067G215C102 4H	1000UF 25V LZ HER MEI
C912	067G215C102 4H	1000UF 25V LZ HER MEI
C911	067G215C102 4H	1000UF 25V LZ HER MEI
C920	067G215C1024KV	EC 105□ CAP 1000UF M 25V
C912	067G215C1024KV	EC 105□ CAP 1000UF M 25V
C911	067G215C1024KV	EC 105□ CAP 1000UF M 25V
	071G 55500 S	FERRITE BEAD 3.5*3*1.3
L903	073G 253 91 H	CHOKE COIL
L903	073G 253 91 L	CHOKE BY LI TA
L903	073G 253 91 S	CHOKE COIL
L901	073L 174 29 LG	CHOCK COIL
L901	073L 174 29 TG	LINEFILTER
L901	073L 174 29LSG	CHOKE COIL
L902	073L 174 31 LG	CHOKE COIL
L902	073L 174 31 TG	CHOKE COIL
L902	073L 174 31LSG	CHOKE COIL
T901	080LL17T 5 LG	TRANS FORMER BY LI TAI
T901	080LL17T 5 TG	X'FMR
T901	080LL17T 5LSG	ADAPTOR BY LISHIN
LED1	081G 2 3 2P	LED
F901	084G 53 2 H	FUSE 2A 250V 3.6×10MM WALTER
CN901	087G 501 11 RF	AC SOCKET
	089G 171513	1.2M 16AWG 1185 STYLE
	090G6063500 T	HEAT SINK
	090G6083 1	HEAT SINK

BD901	093G 50460 10	GBU405
BD901	093G 50460 16	U4KB80R
BD901	093G 50460900	BRIDGE DIODE GBU408 LITEON
D904	093G 60228	MBR20100CT 20A 100VGI
D905	093G 60228	MBR20100CT 20A 100VGI
D904	093G 60237	SRF20100C
D905	093G 60237	SRF20100C
D901	093G 6026T52T	RECTIFIER DIODE FR107
D902	093G 6038P52T	PS102R
D902	093G 6038T52T	FR103
RJ1	095G 90 26	COPPER MANGANESE WIRE
A	095G 205430322	WIRE HARNESS
	096G 29 8	TUBE
	0M1G 330 8128 CR3	SCREW
	705G 990 57 01	Q901 ASS'Y
Q901	057G 724 8	2SK2843(SC)
	090G6062 1	HEAT SINK
	0M1G1030 5128 CR3	SCREW
	AD1260ASMTF	LCD ADAPTER BOARD FOR SMT
IC902	056G 192 10	LM358DT
IC901	056G 379 33	SG6841SZ
Q903	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q902	057G 417 6	PMBS3906/PHILIPS-SMT(06)
R933	061G0805100 2F	RST CHIPR 10KOHM +-1% 1/8W
R926	061G0805102	CHIP 1KOHM 1/10W
R928	061G0805102	CHIP 1KOHM 1/10W
R930	061G0805152	RST CHIPR 1.5 KOHM +-5% 1/8W
R929	061G0805153	RST CHIPR 15KOHM +-5% 1/8W
R931	061G0805154	RST CHIPR 150KOHM +-5% 1/8W
R915	061G0805240 2F	RST CHIPR 24 KOHM +-1% 1/8W
R934	061G0805249 1F	RST CHIPR 2.49KOHM +-1% 1/8W
R913	061G0805332	RST CHIPR 3.3 KOHM +-5% 1/8W
R932	061G0805332	RST CHIPR 3.3 KOHM +-5% 1/8W
R927	061G0805363	RST CHIPR 36 KOHM +-5% 1/8W
R910	061G0805471	470&8 1/10W
R912	061G0805472	RST CHIPR 4.7 KOHM +-5% 1/8W
R911	061G0805472	RST CHIPR 4.7 KOHM +-5% 1/8W
R936	061G0805683	68K&8 1/10W
R917	061G1206100	10 OHM 1/8W
R902	061G1206105	1M 1206
R901	061G1206105	1M 1206
R935	061G1206159	RST CHIPR 1.5 OHM +-5% 1/4W
R921	061G1206159	RST CHIPR 1.5 OHM +-5% 1/4W
R920	061G1206159	RST CHIPR 1.5 OHM +-5% 1/4W
R919	061G1206159	RST CHIPR 1.5 OHM +-5% 1/4W
R918	061G1206159	RST CHIPR 1.5 OHM +-5% 1/4W
R905	061G1206204	RST CHIPR 200 KOHM +-5% 1/4W
R906	061G1206204	RST CHIPR 200 KOHM +-5% 1/4W
R907	061G1206204	RST CHIPR 200 KOHM +-5% 1/4W
R908	061G1206204	RST CHIPR 200 KOHM +-5% 1/4W
R922	061G1206470	47 1206

R923	061G1206470	47 1206
R925	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R909	061G1206519	RST CHIPR 5.1 OHM +-5% 1/4W
R904	061G1206624	RST CHIPR 620 KOHM +-5% 1/4W
R903	061G1206624	RST CHIPR 620 KOHM +-5% 1/4W
C915	065G0805103 22	CHIP 0.01UF 25V X7R 0805
C909	065G0805104 22	0.1UF +-10% 25V X7R 080
C914	065G0805104 22	0.1UF +-10% 25V X7R 080
C921	065G0805104 22	0.1UF +-10% 25V X7R 080
C917	065G0805105 12	1UF +-10% 6V X7R
C916	065G0805221 21	220PF 25V 5%
C907	065G0805474 27	CHIP 0.47UF 25V Y5V
C908	065G0805474 27	CHIP 0.47UF 25V Y5V
C923	065G1206101 71	CHIP 1206 100PF J 500V NPO
C922	065G1206102 32	CHIP 1000PF/XTR +-5%
C910	065G1206102 72	CHIP 1000PF 500V X7R
D906	093G 64 38 P	BAW56
D903	093G 6432S	IN4148W
D907	093G 6432S	IN4148W
ZD902	093G 39S 3 T	BZT52-C11
ZD902	093G 39S 8 T	RLZ11B LLDS
ZD901	093G 39S 12 T	RLZ20B LLDS
	ADPC1260AAIP	LCD ADAPTER ASS'Y FOR AI
T901	006G 31502	1.5MM RIVET
IC904	056G 158 4 T	H431BA
IC904	056G 158 10 T	IC AZ431AZ-AE1 TO-92 BY AAC
R924	061G 17224152T	240 OHM 5% 1/4W
C924	065G 1K101 5T6921	100PF /1KV
C905	065G 1K152 1T6052	1.5NF /1K Y5P+-10%
C905	065G 1K152 1T6285	1.5NF/1K Y5P +-10%
C905	065G 1K152 1T6921	1.5NF/1K Y5P +-10%
C906	067G 305220 7T	105 摄氏度 22UF +-20% 50V
C913	067G 305471 3T	105 摄氏度 470UF +-20% 16V
	715G 901 1 8	ADAPTER BOARD PCB
	W33G6045 B T 30	TOP COVER
	W33G6046 B T	COVER
	AM1T1740 12125	SCREW
	CBPF6X1SQ1P	CONVERSION BOARD
CN105	033T3802 5	AUDIO IN
CN101	033T8022 12 H	CONNECTOR
CN107	033T8027 8	WAFER
CN109	033T8027 10	WAFER 10P 2.0MM DIP
CN103	033T8027 12	WAFER 2*6P 2.0MM R/A
CN115	033T8027 30	WAFER
	040T 45762412B	CBPC LABEL
U706	056T 133 22 ST	L78L09ACZ
Q109	057T 761 14	TRA TT3036-E TO-251 SANYO
C317	067T215B4713HV	CAP L105□ 470UF M 16V
C304	067T215B4713HV	CAP L105□ 470UF M 16V
C303	067T215B4713HV	CAP L105□ 470UF M 16V

C301	067T215B4713HV	CAP L105□ 470UF M 16V
C297	067T215B4713HV	CAP L105□ 470UF M 16V
C378	067T215L470 4N	CAP L105□ 47UF M 25V
C365	067T215L470 4N	CAP L105□ 47UF M 25V
C340	067T215L470 4N	CAP L105□ 47UF M 25V
C334	067T215L470 4N	CAP L105□ 47UF M 25V
C193	067T215L470 4N	CAP L105□ 47UF M 25V
C191	067T215L470 4N	CAP L105□ 47UF M 25V
C141	067T215L470 4N	CAP L105□ 47UF M 25V
C176	067T215S2213KV	CAP L105□ 220UF M 16V
C320	067T215V101 4P	CAP L105□ 100UF M 25V
C335	067T215V101 4P	CAP L105□ 100UF M 25V
C381	067T215V101 4P	CAP L105□ 100UF M 25V
C396	067T215V101 4P	CAP L105□ 100UF M 25V
C398	067T215V101 4P	CAP L105□ 100UF M 25V
C192	067T305S220 3H	CAP 105□ 22UF M 16V
C200	067T305V109 3P	EC 105□ 1UF M 16V
C201	067T305V109 3P	EC 105□ 1UF M 16V
CN110	088T 78 13 5C	RCA JACK
CN108	088T 100 6 C	4PIN MINI DIN JACK
CN106	088T 30241S	PHONE JACK 1+1 BLACK
CN102	088T 35428F H	DVI 28PIN CONN F
U401	090T 372 1 GP	HEAT SINK
X102	093T 22 45 H	CRYSTAL 24MHZ/30PF/49US
X101	093T 22 53 H	CRYSTAL 14.318180MHZ HC-49US 32PF
X104	093T 22 53 H	CRYSTAL 14.318180MHZ HC-49US 32PF
	Q85T 583133	GASKET
U602	Q90T0059 1	HEAT SINK
	SMTF6X1SQ1P	MAIN BOARD FOR SMT
	040T 457624 1B	CPU LABEL
U704	056T 133 32 NS	LM3485
U401	056T 562137	IC MST51512-LF PQFP-208 MSTAR
U707	056T 563 27	AIC1117A-18PY SOT223 AIC
U711	056T 563 52	AP1117D33LA TO252-3L
U712	056T 563 52	AP1117D33LA TO252-3L
U710	056T 563 79	IC AIC1084-25PM-R TO-263 AIC
U201	056T 575 4 1	IC TVP5146M2PFP HTQFP-80
U703	056T 585 4A	AP1117E33LA
U702	056T 585 4A	AP1117E33LA
U601	056T 593 26	IC NJW1142M PF SDMP-30 JRC
U402	056T 614 1	IC 74HC4052D PHILIPS
U301	056T 615 12 2	IC EM636165TS-5G 16M TSOPII-50 ETRON
U302	056T 615 12 2	IC EM636165TS-5G 16M TSOPII-50 ETRON
U602	056T 616 33	IC LA49032H-TLM-E 3W*2 HSOP-36
U406	056T 634 2	PI5V330Q QSOP-16 BY PER
U403	056T 643 5B	IC G690H293T73 SOT-23 GMT
U404	056T1125175	IC MTV416GMV PLCC-44 MYSON
U501	056T1133 34	M24C02-WMN6TP
U502	056T1133 34	M24C02-WMN6TP
U503	056T113353A	M24C32-WMN6TP
Q128	057T 417 4	CHIP PMBS3904 BY PHILIPS

Q124	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q122	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q119	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q118	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q111	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q106	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q103	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q102	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q101	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q104	057T 417 6	PMBS3906/PHILIPS-SMT
Q105	057T 417 6	PMBS3906/PHILIPS-SMT
Q107	057T 758 1	FET 2N7002E VISHAY
Q108	057T 758 1	FET 2N7002E VISHAY
Q123	057T 763 1	A03401L SOT23 BY AOS
Q127	057T 763 1	A03401L SOT23 BY AOS
Q116	057T 763 3	AO4411L SO-8 BY AOS SMT
Q117	057T 763 3	AO4411L SO-8 BY AOS SMT
Q121	057T 763 27	FDS9435A
RP101	061T 125103 8	RST CHIP AR 8P4R 10KOHM +-5% 1/16W
RP103	061T 125330 8	RST CHIP AR 8P4R 33 OHM +-5% 1/16W
RP102	061T 125330 8	RST CHIP AR 8P4R 33 OHM +-5% 1/16W
R400	061T0603000	CHIP 0OHM 1/16W
R385	061T0603000	CHIP 0OHM 1/16W
R365	061T0603000	CHIP 0OHM 1/16W
R263	061T0603000	CHIP 0OHM 1/16W
R259	061T0603000	CHIP 0OHM 1/16W
R256	061T0603000	CHIP 0OHM 1/16W
R249	061T0603000	CHIP 0OHM 1/16W
R248	061T0603000	CHIP 0OHM 1/16W
R193	061T0603000	CHIP 0OHM 1/16W
R169	061T0603000	CHIP 0OHM 1/16W
R165	061T0603000	CHIP 0OHM 1/16W
R164	061T0603000	CHIP 0OHM 1/16W
R155	061T0603000	CHIP 0OHM 1/16W
R150	061T0603000	CHIP 0OHM 1/16W
R145	061T0603000	CHIP 0OHM 1/16W
R128	061T0603000	CHIP 0OHM 1/16W
R134	061T0603100	CHIP 10OHM 1/16W
R135	061T0603100	CHIP 10OHM 1/16W
R136	061T0603100	CHIP 10OHM 1/16W
R137	061T0603100	CHIP 10OHM 1/16W
R138	061T0603100	CHIP 10OHM 1/16W
R139	061T0603100	CHIP 10OHM 1/16W
R140	061T0603100	CHIP 10OHM 1/16W
R141	061T0603100	CHIP 10OHM 1/16W
R229	061T0603100	CHIP 10OHM 1/16W
R390	061T0603101	CHIP 100OHM 1/16W
R391	061T0603101	CHIP 100OHM 1/16W
R393	061T0603101	CHIP 100OHM 1/16W
R407	061T0603101	CHIP 100OHM 1/16W
R122	061T0603101	CHIP 100OHM 1/16W

R124	061T0603101	CHIP 100OHM 1/16W
R125	061T0603101	CHIP 100OHM 1/16W
R127	061T0603101	CHIP 100OHM 1/16W
R133	061T0603101	CHIP 100OHM 1/16W
R167	061T0603101	CHIP 100OHM 1/16W
R168	061T0603101	CHIP 100OHM 1/16W
R171	061T0603101	CHIP 100OHM 1/16W
R172	061T0603101	CHIP 100OHM 1/16W
R173	061T0603101	CHIP 100OHM 1/16W
R174	061T0603101	CHIP 100OHM 1/16W
R175	061T0603101	CHIP 100OHM 1/16W
R176	061T0603101	CHIP 100OHM 1/16W
R177	061T0603101	CHIP 100OHM 1/16W
R178	061T0603101	CHIP 100OHM 1/16W
R190	061T0603101	CHIP 100OHM 1/16W
R203	061T0603101	CHIP 100OHM 1/16W
R204	061T0603101	CHIP 100OHM 1/16W
R221	061T0603101	CHIP 100OHM 1/16W
R223	061T0603101	CHIP 100OHM 1/16W
R224	061T0603101	CHIP 100OHM 1/16W
R226	061T0603101	CHIP 100OHM 1/16W
R273	061T0603101	CHIP 100OHM 1/16W
R275	061T0603101	CHIP 100OHM 1/16W
R276	061T0603101	CHIP 100OHM 1/16W
R278	061T0603101	CHIP 100OHM 1/16W
R388	061T0603101	CHIP 100OHM 1/16W
R104	061T0603101	CHIP 100OHM 1/16W
R105	061T0603101	CHIP 100OHM 1/16W
R106	061T0603101	CHIP 100OHM 1/16W
R107	061T0603101	CHIP 100OHM 1/16W
R111	061T0603101	CHIP 100OHM 1/16W
R120	061T0603101	CHIP 100OHM 1/16W
R121	061T0603101	CHIP 100OHM 1/16W
R356	061T0603102	CHIP 1K OHM 1/16W
R403	061T0603102	CHIP 1K OHM 1/16W
R354	061T0603102	CHIP 1K OHM 1/16W
R350	061T0603102	CHIP 1K OHM 1/16W
R348	061T0603102	CHIP 1K OHM 1/16W
R334	061T0603102	CHIP 1K OHM 1/16W
R332	061T0603102	CHIP 1K OHM 1/16W
R330	061T0603102	CHIP 1K OHM 1/16W
R238	061T0603102	CHIP 1K OHM 1/16W
R237	061T0603102	CHIP 1K OHM 1/16W
R211	061T0603102	CHIP 1K OHM 1/16W
R185	061T0603102	CHIP 1K OHM 1/16W
R101	061T0603103	CHIP 10KOHM 1/16W
R102	061T0603103	CHIP 10KOHM 1/16W
R103	061T0603103	CHIP 10KOHM 1/16W
R117	061T0603103	CHIP 10KOHM 1/16W
R119	061T0603103	CHIP 10KOHM 1/16W
R129	061T0603103	CHIP 10KOHM 1/16W

R152	061T0603103	CHIP 10KOHM 1/16W
R154	061T0603103	CHIP 10KOHM 1/16W
R182	061T0603103	CHIP 10KOHM 1/16W
R183	061T0603103	CHIP 10KOHM 1/16W
R402	061T0603103	CHIP 10KOHM 1/16W
R184	061T0603103	CHIP 10KOHM 1/16W
R186	061T0603103	CHIP 10KOHM 1/16W
R187	061T0603103	CHIP 10KOHM 1/16W
R189	061T0603103	CHIP 10KOHM 1/16W
R192	061T0603103	CHIP 10KOHM 1/16W
R197	061T0603103	CHIP 10KOHM 1/16W
R198	061T0603103	CHIP 10KOHM 1/16W
R199	061T0603103	CHIP 10KOHM 1/16W
R200	061T0603103	CHIP 10KOHM 1/16W
R201	061T0603103	CHIP 10KOHM 1/16W
R202	061T0603103	CHIP 10KOHM 1/16W
R212	061T0603103	CHIP 10KOHM 1/16W
R260	061T0603103	CHIP 10KOHM 1/16W
R262	061T0603103	CHIP 10KOHM 1/16W
R337	061T0603103	CHIP 10KOHM 1/16W
R346	061T0603103	CHIP 10KOHM 1/16W
R349	061T0603103	CHIP 10KOHM 1/16W
R355	061T0603103	CHIP 10KOHM 1/16W
R371	061T0603103	CHIP 10KOHM 1/16W
R373	061T0603103	CHIP 10KOHM 1/16W
R396	061T0603103	CHIP 10KOHM 1/16W
R399	061T0603103	CHIP 10KOHM 1/16W
R247	061T0603104	CHIP 100K OHM 1/16W
R327	061T0603203	CHIPR 20K OHM+-5% 1/10W
R331	061T0603203	CHIPR 20K OHM+-5% 1/10W
R143	061T0603220	CHIP 22OHM 1/16W
R144	061T0603220	CHIP 22OHM 1/16W
R146	061T0603220	CHIP 22OHM 1/16W
R148	061T0603220	CHIP 22OHM 1/16W
R149	061T0603220	CHIP 22OHM 1/16W
R151	061T0603220	CHIP 22OHM 1/16W
R325	061T0603220	CHIP 22OHM 1/16W
R404	061T0603220	CHIP 22OHM 1/16W
R123	061T0603222	CHIP 2.2K OHM 1/16W
R126	061T0603222	CHIP 2.2K OHM 1/16W
R230	061T0603229	RST CHIPR 2.2 OHM +-5% 1/10W
R231	061T0603229	RST CHIPR 2.2 OHM +-5% 1/10W
R232	061T0603229	RST CHIPR 2.2 OHM +-5% 1/10W
R233	061T0603229	RST CHIPR 2.2 OHM +-5% 1/10W
R234	061T0603229	RST CHIPR 2.2 OHM +-5% 1/10W
R213	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
R214	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
R227	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
R228	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
R394	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
R395	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W

R108	061T0603330	CHIP 33OHM 1/16W
R109	061T0603330	CHIP 33OHM 1/16W
R110	061T0603330	CHIP 33OHM 1/16W
R359	061T0603330	CHIP 33OHM 1/16W
R361	061T0603330	CHIP 33OHM 1/16W
R364	061T0603330	CHIP 33OHM 1/16W
R357	061T0603391	RST CHIPR 390 OHM +-5% 1/10W
R333	061T0603393	RST CHIPR 39 KOHM +-5% 1/10W
R392	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R389	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R362	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R277	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R274	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R225	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R222	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R130	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R179	061T0603472	CHIP 4.7KOHM 1/16W
R163	061T0603472	CHIP 4.7KOHM 1/16W
R347	061T0603472	CHIP 4.7KOHM 1/16W
R366	061T0603472	CHIP 4.7KOHM 1/16W
R372	061T0603472	CHIP 4.7KOHM 1/16W
R162	061T0603472	CHIP 4.7KOHM 1/16W
R161	061T0603472	CHIP 4.7KOHM 1/16W
R160	061T0603472	CHIP 4.7KOHM 1/16W
R157	061T0603472	CHIP 4.7KOHM 1/16W
R156	061T0603472	CHIP 4.7KOHM 1/16W
R132	061T0603472	CHIP 4.7KOHM 1/16W
R131	061T0603472	CHIP 4.7KOHM 1/16W
R336	061T0603472	CHIP 4.7KOHM 1/16W
R326	061T0603472	CHIP 4.7KOHM 1/16W
R244	061T0603472	CHIP 4.7KOHM 1/16W
R219	061T0603472	CHIP 4.7KOHM 1/16W
R218	061T0603472	CHIP 4.7KOHM 1/16W
R210	061T0603472	CHIP 4.7KOHM 1/16W
R209	061T0603472	CHIP 4.7KOHM 1/16W
R208	061T0603472	CHIP 4.7KOHM 1/16W
R206	061T0603472	CHIP 4.7KOHM 1/16W
R205	061T0603472	CHIP 4.7KOHM 1/16W
R181	061T0603472	CHIP 4.7KOHM 1/16W
R180	061T0603472	CHIP 4.7KOHM 1/16W
R328	061T0603623	RST CHIPR 62KOHM +-5% 1/10W
R250	061T0603750	75OHM
R253	061T0603750	75OHM
R254	061T0603750	75OHM
R255	061T0603750	75OHM
R257	061T0603750	75OHM
R363	061T0603750	75OHM
R360	061T0603750	75OHM
R358	061T0603750	75OHM
R266	061T0603750	75OHM
R265	061T0603750	75OHM

R264	061T0603750	75OHM
R258	061T0603750	75OHM
R112	061T0603750	75OHM
R113	061T0603750	75OHM
R114	061T0603750	75OHM
R115	061T0603750	75OHM
R116	061T0603750	75OHM
R118	061T0603750	75OHM
R339	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
R377	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
R386	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
R387	061T1206000	RST CHIPR 0 OHM +-5% 1/4W
C147	065T0603101 31	CHIP 100PF 50V NPO
C148	065T0603101 31	CHIP 100PF 50V NPO
C149	065T0603101 31	CHIP 100PF 50V NPO
C150	065T0603101 31	CHIP 100PF 50V NPO
C151	065T0603101 31	CHIP 100PF 50V NPO
C152	065T0603101 31	CHIP 100PF 50V NPO
C215	065T0603101 31	CHIP 100PF 50V NPO
C220	065T0603101 31	CHIP 100PF 50V NPO
C230	065T0603101 31	CHIP 100PF 50V NPO
C236	065T0603101 31	CHIP 100PF 50V NPO
C109	065T0603102 32	CHIP 1000PF 50V X7R
C185	065T0603102 32	CHIP 1000PF 50V X7R
C210	065T0603102 32	CHIP 1000PF 50V X7R
C299	065T0603102 32	CHIP 1000PF 50V X7R
C300	065T0603102 32	CHIP 1000PF 50V X7R
C302	065T0603102 32	CHIP 1000PF 50V X7R
C308	065T0603102 32	CHIP 1000PF 50V X7R
C372	065T0603102 32	CHIP 1000PF 50V X7R
C367	065T0603103 12	CHIP 0.01UF 16V X7R
C231	065T0603104 32	CHIP 0.1UF 50V X7R
C233	065T0603104 32	CHIP 0.1UF 50V X7R
C235	065T0603104 32	CHIP 0.1UF 50V X7R
C237	065T0603104 32	CHIP 0.1UF 50V X7R
C238	065T0603104 32	CHIP 0.1UF 50V X7R
C239	065T0603104 32	CHIP 0.1UF 50V X7R
C241	065T0603104 32	CHIP 0.1UF 50V X7R
C242	065T0603104 32	CHIP 0.1UF 50V X7R
C243	065T0603104 32	CHIP 0.1UF 50V X7R
C244	065T0603104 32	CHIP 0.1UF 50V X7R
C245	065T0603104 32	CHIP 0.1UF 50V X7R
C246	065T0603104 32	CHIP 0.1UF 50V X7R
C247	065T0603104 32	CHIP 0.1UF 50V X7R
C249	065T0603104 32	CHIP 0.1UF 50V X7R
C250	065T0603104 32	CHIP 0.1UF 50V X7R
C251	065T0603104 32	CHIP 0.1UF 50V X7R
C228	065T0603104 32	CHIP 0.1UF 50V X7R
C188	065T0603104 32	CHIP 0.1UF 50V X7R
C189	065T0603104 32	CHIP 0.1UF 50V X7R
C190	065T0603104 32	CHIP 0.1UF 50V X7R

C204	065T0603104 32	CHIP 0.1UF 50V X7R
C206	065T0603104 32	CHIP 0.1UF 50V X7R
C209	065T0603104 32	CHIP 0.1UF 50V X7R
C211	065T0603104 32	CHIP 0.1UF 50V X7R
C212	065T0603104 32	CHIP 0.1UF 50V X7R
C216	065T0603104 32	CHIP 0.1UF 50V X7R
C217	065T0603104 32	CHIP 0.1UF 50V X7R
C218	065T0603104 32	CHIP 0.1UF 50V X7R
C221	065T0603104 32	CHIP 0.1UF 50V X7R
C222	065T0603104 32	CHIP 0.1UF 50V X7R
C223	065T0603104 32	CHIP 0.1UF 50V X7R
C224	065T0603104 32	CHIP 0.1UF 50V X7R
C226	065T0603104 32	CHIP 0.1UF 50V X7R
C227	065T0603104 32	CHIP 0.1UF 50V X7R
C252	065T0603104 32	CHIP 0.1UF 50V X7R
C342	065T0603104 32	CHIP 0.1UF 50V X7R
C343	065T0603104 32	CHIP 0.1UF 50V X7R
C344	065T0603104 32	CHIP 0.1UF 50V X7R
C345	065T0603104 32	CHIP 0.1UF 50V X7R
C346	065T0603104 32	CHIP 0.1UF 50V X7R
C347	065T0603104 32	CHIP 0.1UF 50V X7R
C348	065T0603104 32	CHIP 0.1UF 50V X7R
C349	065T0603104 32	CHIP 0.1UF 50V X7R
C351	065T0603104 32	CHIP 0.1UF 50V X7R
C353	065T0603104 32	CHIP 0.1UF 50V X7R
C354	065T0603104 32	CHIP 0.1UF 50V X7R
C355	065T0603104 32	CHIP 0.1UF 50V X7R
C356	065T0603104 32	CHIP 0.1UF 50V X7R
C357	065T0603104 32	CHIP 0.1UF 50V X7R
C358	065T0603104 32	CHIP 0.1UF 50V X7R
C361	065T0603104 32	CHIP 0.1UF 50V X7R
C360	065T0603104 32	CHIP 0.1UF 50V X7R
C296	065T0603104 32	CHIP 0.1UF 50V X7R
C307	065T0603104 32	CHIP 0.1UF 50V X7R
C318	065T0603104 32	CHIP 0.1UF 50V X7R
C319	065T0603104 32	CHIP 0.1UF 50V X7R
C321	065T0603104 32	CHIP 0.1UF 50V X7R
C322	065T0603104 32	CHIP 0.1UF 50V X7R
C323	065T0603104 32	CHIP 0.1UF 50V X7R
C326	065T0603104 32	CHIP 0.1UF 50V X7R
C327	065T0603104 32	CHIP 0.1UF 50V X7R
C329	065T0603104 32	CHIP 0.1UF 50V X7R
C331	065T0603104 32	CHIP 0.1UF 50V X7R
C332	065T0603104 32	CHIP 0.1UF 50V X7R
C333	065T0603104 32	CHIP 0.1UF 50V X7R
C336	065T0603104 32	CHIP 0.1UF 50V X7R
C337	065T0603104 32	CHIP 0.1UF 50V X7R
C339	065T0603104 32	CHIP 0.1UF 50V X7R
C341	065T0603104 32	CHIP 0.1UF 50V X7R
C112	065T0603104 32	CHIP 0.1UF 50V X7R
C114	065T0603104 32	CHIP 0.1UF 50V X7R

C115	065T0603104 32	CHIP 0.1UF 50V X7R
C116	065T0603104 32	CHIP 0.1UF 50V X7R
C117	065T0603104 32	CHIP 0.1UF 50V X7R
C118	065T0603104 32	CHIP 0.1UF 50V X7R
C119	065T0603104 32	CHIP 0.1UF 50V X7R
C120	065T0603104 32	CHIP 0.1UF 50V X7R
C121	065T0603104 32	CHIP 0.1UF 50V X7R
C122	065T0603104 32	CHIP 0.1UF 50V X7R
C123	065T0603104 32	CHIP 0.1UF 50V X7R
C124	065T0603104 32	CHIP 0.1UF 50V X7R
C125	065T0603104 32	CHIP 0.1UF 50V X7R
C105	065T0603104 32	CHIP 0.1UF 50V X7R
C394	065T0603104 32	CHIP 0.1UF 50V X7R
C387	065T0603104 32	CHIP 0.1UF 50V X7R
C386	065T0603104 32	CHIP 0.1UF 50V X7R
C383	065T0603104 32	CHIP 0.1UF 50V X7R
C377	065T0603104 32	CHIP 0.1UF 50V X7R
C376	065T0603104 32	CHIP 0.1UF 50V X7R
C375	065T0603104 32	CHIP 0.1UF 50V X7R
C366	065T0603104 32	CHIP 0.1UF 50V X7R
C363	065T0603104 32	CHIP 0.1UF 50V X7R
C101	065T0603104 32	CHIP 0.1UF 50V X7R
C102	065T0603104 32	CHIP 0.1UF 50V X7R
C103	065T0603104 32	CHIP 0.1UF 50V X7R
C104	065T0603104 32	CHIP 0.1UF 50V X7R
C155	065T0603104 32	CHIP 0.1UF 50V X7R
C156	065T0603104 32	CHIP 0.1UF 50V X7R
C157	065T0603104 32	CHIP 0.1UF 50V X7R
C158	065T0603104 32	CHIP 0.1UF 50V X7R
C159	065T0603104 32	CHIP 0.1UF 50V X7R
C160	065T0603104 32	CHIP 0.1UF 50V X7R
C165	065T0603104 32	CHIP 0.1UF 50V X7R
C166	065T0603104 32	CHIP 0.1UF 50V X7R
C175	065T0603104 32	CHIP 0.1UF 50V X7R
C177	065T0603104 32	CHIP 0.1UF 50V X7R
C178	065T0603104 32	CHIP 0.1UF 50V X7R
C186	065T0603104 32	CHIP 0.1UF 50V X7R
C187	065T0603104 32	CHIP 0.1UF 50V X7R
C154	065T0603104 32	CHIP 0.1UF 50V X7R
C126	065T0603104 32	CHIP 0.1UF 50V X7R
C127	065T0603104 32	CHIP 0.1UF 50V X7R
C129	065T0603104 32	CHIP 0.1UF 50V X7R
C130	065T0603104 32	CHIP 0.1UF 50V X7R
C131	065T0603104 32	CHIP 0.1UF 50V X7R
C132	065T0603104 32	CHIP 0.1UF 50V X7R
C133	065T0603104 32	CHIP 0.1UF 50V X7R
C134	065T0603104 32	CHIP 0.1UF 50V X7R
C139	065T0603104 32	CHIP 0.1UF 50V X7R
C140	065T0603104 32	CHIP 0.1UF 50V X7R
C142	065T0603104 32	CHIP 0.1UF 50V X7R
C143	065T0603104 32	CHIP 0.1UF 50V X7R

C144	065T0603104 32	CHIP 0.1UF 50V X7R
C364	065T0603220 31	CHIP 22PF 50V NPO
C362	065T0603220 31	CHIP 22PF 50V NPO
C153	065T0603220 31	CHIP 22PF 50V NPO
C146	065T0603220 31	CHIP 22PF 50V NPO
C163	065T0603222 32	CHIP 2200PF 50V X7R
C164	065T0603222 32	CHIP 2200PF 50V X7R
C161	065T0603223 32	CHIP 0.022UF 50V X7R 0603
C395	065T0603223 32	CHIP 0.022UF 50V X7R 0603
C145	065T0603224 17	CHIP 0.22UF 16V Y5V
C183	065T0603331 32	CHIP 330PF 50V X7R
C184	065T0603331 32	CHIP 330PF 50V X7R
C261	065T0603331 32	CHIP 330PF 50V X7R
C262	065T0603331 32	CHIP 330PF 50V X7R
C392	065T0603331 32	CHIP 330PF 50V X7R
C393	065T0603331 32	CHIP 330PF 50V X7R
C174	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C179	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C180	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C181	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C182	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C257	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C258	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C259	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C260	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C388	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C389	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C390	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C391	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C374	065T0603473 32	CHIP 0.047UF 50V X7R
C373	065T0603473 32	CHIP 0.047UF 50V X7R
C371	065T0603473 32	CHIP 0.047UF 50V X7R
C370	065T0603473 32	CHIP 0.047UF 50V X7R
C369	065T0603473 32	CHIP 0.047UF 50V X7R
C106	065T0603473 32	CHIP 0.047UF 50V X7R
C107	065T0603473 32	CHIP 0.047UF 50V X7R
C108	065T0603473 32	CHIP 0.047UF 50V X7R
C110	065T0603473 32	CHIP 0.047UF 50V X7R
C111	065T0603473 32	CHIP 0.047UF 50V X7R
C113	065T0603473 32	CHIP 0.047UF 50V X7R
C368	065T0603473 32	CHIP 0.047UF 50V X7R
C203	065T0603560 31	CHIP 56PF 50V NPO
C207	065T0603560 31	CHIP 56PF 50V NPO
C306	065T0603683 32	CHIP 0.068UF 50V X7R
C162	065T0805105 22	CHIP 1UF 25V X7R 0805
C169	065T0805105 22	CHIP 1UF 25V X7R 0805
C170	065T0805105 22	CHIP 1UF 25V X7R 0805
C171	065T0805105 22	CHIP 1UF 25V X7R 0805
C172	065T0805105 22	CHIP 1UF 25V X7R 0805
C197	065T0805105 22	CHIP 1UF 25V X7R 0805
C298	065T0805105 22	CHIP 1UF 25V X7R 0805

C309	065T0805105 22	CHIP 1UF 25V X7R 0805
C196	065T0805105 22	CHIP 1UF 25V X7R 0805
C173	065T0805105 22	CHIP 1UF 25V X7R 0805
C199	065T0805225 27	MLCC 0805 CAP 2.2UF Z 25V Y5V
C198	065T0805225 27	MLCC 0805 CAP 2.2UF Z 25V Y5V
C195	065T0805225 27	MLCC 0805 CAP 2.2UF Z 25V Y5V
C194	065T0805225 27	MLCC 0805 CAP 2.2UF Z 25V Y5V
C167	065T0805475 17	0805 4.7UF +80%~-20% 16
C168	065T0805475 17	0805 4.7UF +80%~-20% 16
C202	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C128	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C205	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C208	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C213	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C225	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C232	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C248	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C325	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C328	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C330	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C338	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C350	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C352	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
C359	065T1206106 15	MLCC 1206 CAP 10UF K 16V X5R
L128	071T 56K121 M	CHIP BEAD
L127	071T 56K121 M	CHIP BEAD
L126	071T 56K121 M	CHIP BEAD
L129	071T 56K121 M	CHIP BEAD
L155	071T 56K121 M	CHIP BEAD
R406	071T 56K121 M	CHIP BEAD
L154	071T 56U600	CHIP BEAD 60 OHM 0805
L147	071T 56U600	CHIP BEAD 60 OHM 0805
L105	071T 56Z601	CHIP BEAD 600 OHM
L106	071T 56Z601	CHIP BEAD 600 OHM
L107	071T 56Z601	CHIP BEAD 600 OHM
L108	071T 56Z601	CHIP BEAD 600 OHM
L109	071T 56Z601	CHIP BEAD 600 OHM
L110	071T 56Z601	CHIP BEAD 600 OHM
L152	071T 56Z601	CHIP BEAD 600 OHM
L150	071T 56Z601	CHIP BEAD 600 OHM
L149	071T 56Z601	CHIP BEAD 600 OHM
L125	071T 56Z601	CHIP BEAD 600 OHM
L124	071T 56Z601	CHIP BEAD 600 OHM
L122	071T 56Z601	CHIP BEAD 600 OHM
L119	071T 56Z601	CHIP BEAD 600 OHM
L118	071T 56Z601	CHIP BEAD 600 OHM
L117	071T 56Z601	CHIP BEAD 600 OHM
L115	071T 56Z601	CHIP BEAD 600 OHM
L113	071T 56Z601	CHIP BEAD 600 OHM
L112	071T 56Z601	CHIP BEAD 600 OHM
L111	071T 56Z601	CHIP BEAD 600 OHM

L114	071T 57G301 EA	CHIP BEAD
L116	071T 57G301 EA	CHIP BEAD
L151	071T 57G301 EA	CHIP BEAD
L153	071T 57G301 EA	CHIP BEAD
L102	071T3216121 1Y	IND CHIP BEAD 1206 120 OHM 1A EUROP
L103	071T3216121 1Y	IND CHIP BEAD 1206 120 OHM 1A EUROP
L148	071T3216121 1Y	IND CHIP BEAD 1206 120 OHM 1A EUROP
L142	073T M5822020S	IND SMD 22UH+-20% TAICHANG
L142	073T M5822020T	22UH +-20%
L120	073T253S 24 K	SMD CHOKE 180UH BSF1207RHSU181MT
D105	093T 39149	ZENER DIODE MLL5232B FULL POWER
D106	093T 39149	ZENER DIODE MLL5232B FULL POWER
D107	093T 39149	ZENER DIODE MLL5232B FULL POWER
D108	093T 39149	ZENER DIODE MLL5232B FULL POWER
D118	093T 39149	ZENER DIODE MLL5232B FULL POWER
D119	093T 39149	ZENER DIODE MLL5232B FULL POWER
D120	093T 39149	ZENER DIODE MLL5232B FULL POWER
D121	093T 39149	ZENER DIODE MLL5232B FULL POWER
D122	093T 39149	ZENER DIODE MLL5232B FULL POWER
D123	093T 39149	ZENER DIODE MLL5232B FULL POWER
D124	093T 39149	ZENER DIODE MLL5232B FULL POWER
D125	093T 39149	ZENER DIODE MLL5232B FULL POWER
D101	093T 64 42 P	BAV70 SOT23
D131	093T 6432S	IN4148W
D102	093T 6433P	BAV99
D103	093T 6433P	BAV99
D104	093T 6433P	BAV99
D109	093T 6433P	BAV99
D110	093T 6433P	BAV99
D111	093T 6433P	BAV99
D112	093T 6433P	BAV99
D113	093T 6433P	BAV99
D114	093T 6433P	BAV99
D115	093T 6433P	BAV99
D116	093T 6433P	BAV99
D127	093T 6433P	BAV99
D128	093T 6433P	BAV99
D129	093T 6433P	BAV99
D130	093T 6433P	BAV99
D132	093T 6433P	BAV99
D133	093T 6433P	BAV99
D134	093T 6433P	BAV99
D126	093T5004 2	5A 40V
D136	093T5004 2	5A 40V
D137	093T5004 2	5A 40V
	715T2153 1	MAIN BOARD PCB
	HJPF6QACP	HEADPHONE BOARD
CN102	033T3802 4H	WAFER 4P RIGHT ANGLE
CN101	033T8027 8	WAFER
CN103	088T 30214K	PHONE JACK
	715T1990 1	EARPHONE BOARD PCB

	IDTV1942HSE1P	INVERTER BOARD
CON102	033G800912K H	2*6PIN DUAL ROW RIGHT
CON201	033G8021 2E AC	WAFER
CON202	033G8021 2E AC	WAFER
CON203	033G8021 2E AC	WAFER
CON204	033G8021 2E AC	WAFER
CON201	033T8021 2E U	WAFER
CON202	033T8021 2E U	WAFER
CON203	033T8021 2E U	WAFER
CON204	033T8021 2E U	WAFER
	040T 45762412B	CBPC LABEL
Q209	057T 761 7	KTD1691P
Q210	057T 761 7	KTD1691P
Q211	057T 761 7	KTD1691P
Q212	057T 761 7	KTD1691P
C213	063G210J1842AC	FILM CAP 0.18UF J 250V
C214	063G210J1842AC	FILM CAP 0.18UF J 250V
C215	065T 3J2206ET	22PF,J,3KV
C216	065T 3J2206ET	22PF,J,3KV
C217	065T 3J2206ET	22PF,J,3KV
C218	065T 3J2206ET	22PF,J,3KV
C103	067G215B471 3H	470UF 16V LTR471M1CF11VR
C103	067G215B471 3K	470UF +-20% 16V
C102	067G215V221 4H	220UF
C101	067G215V221 4H	220UF
C102	067G215V221 4K	EC 220F 25V
C101	067G215V221 4K	EC 220F 25V
C223	067T215C151 4K	150UF 25V
C201	067T215C151 4K	150UF 25V
L101	071T 55 28	FERRITE BEAD 7.62*5.08*
L204	073G 174 30 HA	FILTER
L203	073G 174 30 HA	FILTER
L204	073G 174 30LSA	FILTER
L203	073G 174 30LSA	FILTER
L204	073G 174 30YSA	FILTER
L203	073G 174 30YSA	FILTER
L102	073G 253138 S	CHOKE 150UH 1.5A TC
L201	073G 253138 S	CHOKE 150UH 1.5A TC
L202	073G 253138 S	CHOKE 150UH 1.5A TC
L102	073G 253138 Y	CHOKE BY
L201	073G 253138 Y	CHOKE BY
L202	073G 253138 Y	CHOKE BY
L102	073G 253138 LS	CHOKE COIL
L201	073G 253138 LS	CHOKE COIL
L202	073G 253138 LS	CHOKE COIL
PT201	080LL15T 7DNH	XFMR FOR INVERTER DARFON
PT202	080LL15T 7DNH	XFMR FOR INVERTER DARFON
PT201	080LL15T 7YSH	XFMR FOR INVERTER TOP NATION
PT202	080LL15T 7YSH	XFMR FOR INVERTER TOP NATION
CON101	088G 3041CF	DC JACK
	SMTID942HSE1P	INVERTER BOARD FOR SMT

U101	056G 563 20	AP1501-50K5A
U101	056T 563 1	LM2596S-5.0 SMT
U101	056T 563 11	SI-8050SD
U201	056T 608 1	TL1451ACD
Q203	057G 600 37	STS6PF30L SO-8
Q205	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q206	057T 417 4	CHIP PMBS3904 BY PHILIPS
Q208	057T 417 6	PMBS3906/PHILIPS-SMT
Q207	057T 417 6	PMBS3906/PHILIPS-SMT
Q205	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC
Q206	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC
Q208	057T 417 13 T	TRA 2N3904S-RTK/PS SOT-23 KEC
Q207	057T 417 13 T	TRA 2N3904S-RTK/PS SOT-23 KEC
Q202	057T 760 4	DTA144WKA BY ROHM SMT
Q201	057T 760 5	DTC144WKA BY FOHM SMT
Q202	057T 760 4B	PDTA144WK SOT346
Q201	057T 760 5B	PDTC144WK SOT346
Q203	057T 763 3	AO4411L SO-8 BY AOS SMT
Q204	057T 763 3	AO4411L SO-8 BY AOS SMT
Q203	057T 763 4	RSS050P03
Q204	057T 763 4	RSS050P03
R222	061T0603123	RST CHIPR 12 KOHM +-5% 1/10W
R223	061T0603123	RST CHIPR 12 KOHM +-5% 1/10W
R238	061T0603123	RST CHIPR 12 KOHM +-5% 1/10W
R239	061T0603123	RST CHIPR 12 KOHM +-5% 1/10W
R221	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
R220	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
R211	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
R210	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W
R216	061T0603221	CHIP 220OHM 1/16W
R217	061T0603221	CHIP 220OHM 1/16W
R201	061T0603303	RST CHIPR 30 KOHM +-5% 1/10W
R212	061T0603392	CHIP 3.9KOHM 1/16W
R213	061T0603392	CHIP 3.9KOHM 1/16W
R214	061T0603392	CHIP 3.9KOHM 1/16W
R215	061T0603392	CHIP 3.9KOHM 1/16W
R218	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R219	061T0603471	RST CHIPR 470OHM +-5% 1/10W
R208	061T0603472	CHIP 4.7KOHM 1/16W
R209	061T0603472	CHIP 4.7KOHM 1/16W
R205	061T0603473	CHIP 47KOHM 1/16W
R206	061T0603473	CHIP 47KOHM 1/16W
R236	061T0603511	RST CHIPR 510 OHM +-5% 1/10W
R237	061T0603511	RST CHIPR 510 OHM +-5% 1/10W
R202	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W
R203	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W
R240	061T0603513	RST CHIPR 51 KOHM +-5% 1/10W
R241	061T0603513	RST CHIPR 51 KOHM +-5% 1/10W
R234	061T0603621	RST CHIPR 620 OHM +-5% 1/10W
R235	061T0603621	RST CHIPR 620 OHM +-5% 1/10W
R102	061T0805000	CHIP 0OHM 5% 1/10W

R204	061T0805100 2F	RST CHIPR 10 KOHM +-1% 1/8W
F101	061T1206000 4	RST CHIPR 0 OHM +-5% 1/4W
F201	061T1206000 4	RST CHIPR 0 OHM +-5% 1/4W
C221	065G080547427T	MLCC 0805 CAP 0.47UF Z 25V Y5V
C222	065G080547427T	MLCC 0805 CAP 0.47UF Z 25V Y5V
C108	065T0805104 22	0.1UF +-10% 25V X7R 080
C109	065T0805104 22	0.1UF +-10% 25V X7R 080
C110	065T0805104 22	0.1UF +-10% 25V X7R 080
C202	065T0805104 22	0.1UF +-10% 25V X7R 080
C204	065T0805104 22	0.1UF +-10% 25V X7R 080
C205	065T0805104 22	0.1UF +-10% 25V X7R 080
C206	065T0805104 22	0.1UF +-10% 25V X7R 080
C203	065T0805105 27	CHIP 1UF 25V Y5V 0805
C209	065T0805105 27	CHIP 1UF 25V Y5V 0805
C210	065T0805105 27	CHIP 1UF 25V Y5V 0805
C211	065T0805105 27	CHIP 1UF 25V Y5V 0805
C212	065T0805105 27	CHIP 1UF 25V Y5V 0805
C219	065T0805105 27	CHIP 1UF 25V Y5V 0805
C220	065T0805105 27	CHIP 1UF 25V Y5V 0805
C208	065T0805331 31	CHIP 330PF 50V NPO
D210	093T 6432S	IN4148W
D209	093T 6432S	IN4148W
D208	093T 6432S	IN4148W
D207	093T 6432S	IN4148W
D206	093T 6432S	IN4148W
D205	093T 6432S	IN4148W
D203	093T 39S 3 T	BZT52-C11
D204	093T 39S 3 T	BZT52-C11
D203	093T 39S 8 T	RLZ11B LLDS
D204	093T 39S 8 T	RLZ11B LLDS
D205	093T 64S511SEM	DIODE 1N4148W SEMTECH
D206	093T 64S511SEM	DIODE 1N4148W SEMTECH
D207	093T 64S511SEM	DIODE 1N4148W SEMTECH
D208	093T 64S511SEM	DIODE 1N4148W SEMTECH
D209	093T 64S511SEM	DIODE 1N4148W SEMTECH
D210	093T 64S511SEM	DIODE 1N4148W SEMTECH
D101	093T3004 1	SMAL340XXXRO 3A 40V SMA FULL P
D201	093T3004 1	SMAL340XXXRO 3A 40V SMA FULL P
D202	093T3004 1	SMAL340XXXRO 3A 40V SMA FULL P
D101	093T3004 2	SR34 PAN JIT
D201	093T3004 2	SR34 PAN JIT
D202	093T3004 2	SR34 PAN JIT
D101	093T3004 3	SM340A DO-214AC BY SECOS
	AIID942HSE1P	INVERTER BOARD FOR AI
L102	006T 31502	1.5MM RIVET
L201	006T 31502	1.5MM RIVET
L202	006T 31502	1.5MM RIVET
PT201	006T 31502	1.5MM RIVET
PT202	006T 31502	1.5MM RIVET
R232	061T 17210252T	RST CFR 1KOHM +-5% 1/4W
R233	061T 17210252T	RST CFR 1KOHM +-5% 1/4W

R224	061T 20024252T	MFR 2.4KOHM +-1% 1/4W
R225	061T 20024252T	MFR 2.4KOHM +-1% 1/4W
R226	061T 20024252T	MFR 2.4KOHM +-1% 1/4W
R227	061T 20024252T	MFR 2.4KOHM +-1% 1/4W
R228	061T 20024252T	MFR 2.4KOHM +-1% 1/4W
R229	061T 20024252T	MFR 2.4KOHM +-1% 1/4W
R230	061T 20024252T	MFR 2.4KOHM +-1% 1/4W
R231	061T 20024252T	MFR 2.4KOHM +-1% 1/4W
L103	071T 55 19 T	FERRITE BEAD D9X3. 5X0.8
J214	095T 90 23	JUMP WIRE
J213	095T 90 23	JUMP WIRE
J212	095T 90 23	JUMP WIRE
J211	095T 90 23	JUMP WIRE
J210	095T 90 23	JUMP WIRE
J209	095T 90 23	JUMP WIRE
J208	095T 90 23	JUMP WIRE
J207	095T 90 23	JUMP WIRE
J206	095T 90 23	JUMP WIRE
J205	095T 90 23	JUMP WIRE
J204	095T 90 23	JUMP WIRE
RJ202	095T 90 23	JUMP WIRE
RJ101	095T 90 23	JUMP WIRE
J229	095T 90 23	JUMP WIRE
J223	095T 90 23	JUMP WIRE
J222	095T 90 23	JUMP WIRE
J221	095T 90 23	JUMP WIRE
J220	095T 90 23	JUMP WIRE
J219	095T 90 23	JUMP WIRE
J218	095T 90 23	JUMP WIRE
J217	095T 90 23	JUMP WIRE
J216	095T 90 23	JUMP WIRE
J215	095T 90 23	JUMP WIRE
J203	095T 90 23	JUMP WIRE
J202	095T 90 23	JUMP WIRE
	715G1299 6	POWER BOARD PCB
	IRPF6QACP	IR BOARD
CN101	033T3802 5H	WAFER 5P RIGHT ANELE PI
U101	056T 627 14	NO APP KSM-2003LN2E BY KOD
MIC101	078T MCP 2 V	MICROPHONE PVM-9745-31P423S
	SMTIRPF6QACP	IR BOARD FOR SMT
C101	061T0603000	CHIP 0OHM 1/16W
R101	061T0603101	CHIP 100OHM 1/16W
R102	061T0603101	CHIP 100OHM 1/16W
C103	065T060310522T	CAP 0603 1UF K 25V X7R
	715T1989 2	IR BOARD PCB
	KEPF6QACP	KEY BOARD
SW103	077T 602 1 CJ	TACT SWITCH
SW102	077T 602 1 CJ	TACT SWITCH
SW101	077T 602 1 CJ	TACT SWITCH
SW105	077T 602 1 CJ	TACT SWITCH
SW104	077T 602 1 CJ	TACT SWITCH

SW106	077T 602 1 CJ	TACT SWITCH
LED103	081T IR 4 KB	IR LED 3MM L-91DTQ-4/SP7C-7L
	SMTKEPF6QACP	KEY BOARD FOR SMT
CN101	033T803412D	CONNECTOR
R101	061T0603102	CHIP 1K OHM 1/16W
C101	065T0603105 12	CHIP 1UF 16V X7R
LED101	081T 14501 KT	LED
LED102	081T 14501 KT	LED
	715T1988 1	KEY BOARD PCB
	Q05T6059 1	SHEET
	Q15T0010 3	MAIN FRAME
	Q34T0015 XW 1L	REAR CASE
	Q40T 192673 2B	RATING LABEL
	Q40T000261531A	I/O LABEL
	Q40T0002673 9A	POP LABEL
	Q41T7800615A57	SA CENTER LIST
	Q41T7800615A58	WARRANTY BOOKLET
	Q41T9003615 1A	MANUAL
	Q44T9020 1	EPS{L}
	Q44T9020 2	EPS{R}
	Q44T9020673 1A	CARTON
	Q44T9020BRO 1	PAPER BLOCK
	Q45T 88609 65	EPE COVER
	Q52T6025 13 70	MYLAR
	Q52T6025 13 71	MYLAR
	Q85T0009 2	MAIN SHIELD
	Q85T0010 3 S	USB SHIELD
	TUPF6QACP	TUNER BOARD
CN101	033T8027 10	WAFER 10P 2.0MM DIP
	040T 45762412B	CBPC LABEL
R109	061T152M270 64	27 OHM 5% 2W
R110	061T152M330 64	33 OHM 5% 2W
C138	067T305S100 3H	EC 10UF 16V 4*7MM
C134	067T305S100 3H	EC 10UF 16V 4*7MM
C130	067T305S100 3H	EC 10UF 16V 4*7MM
C115	067T305S100 3H	EC 10UF 16V 4*7MM
C113	067T305S100 3H	EC 10UF 16V 4*7MM
C110	067T305S100 3H	EC 10UF 16V 4*7MM
C105	067T305S100 3H	EC 10UF 16V 4*7MM
X101	093T 2268B J	18.432MHZ
TU101	094TNTSC MA 1P	TUNER
	SMTTUPF6QACP	TUNER BOARD FOR SMT
U701	056T 133 30AAC	AZ1117H-ADJ-E1
U702	056T 585 11	AZ1117D-5.0-E1
U601	056T 593 2	MSP3455G-QI-B8-V3 PMQFP64
R101	061T0603101	CHIP 100OHM 1/16W
R105	061T0603101	CHIP 100OHM 1/16W
R104	061T0603102	CHIP 1K OHM 1/16W
R106	061T0603102	CHIP 1K OHM 1/16W
R108	061T0603202	RST CHIPR 2 KOHM +-5% 1/10W
R107	061T0603361	RST CHIPR 360 OHM +-5% 1/10W

R111	061T0603473	CHIP 47KOHM 1/16W
C121	065T0603100 31	CHIP 10PF 50V NPO
C122	065T0603100 31	CHIP 10PF 50V NPO
C107	065T0603101 31	CHIP 100PF 50V NPO
C123	065T0603102 32	CHIP 1000PF 50V X7R
C124	065T0603102 32	CHIP 1000PF 50V X7R
C139	065T0603104 32	CHIP 0.1UF 50V X7R
C132	065T0603104 32	CHIP 0.1UF 50V X7R
C131	065T0603104 32	CHIP 0.1UF 50V X7R
C127	065T0603104 32	CHIP 0.1UF 50V X7R
C109	065T0603104 32	CHIP 0.1UF 50V X7R
C104	065T0603104 32	CHIP 0.1UF 50V X7R
C103	065T0603104 32	CHIP 0.1UF 50V X7R
C101	065T0603152 32	CHIP 1500PF 50V X7R
C112	065T0603152 32	CHIP 1500PF 50V X7R
C137	065T0603152 32	CHIP 1500PF 50V X7R
C136	065T0603221 32	CHIP 220PF 50V X7R
C106	065T0603334 27	MLCC 0603 CAP 0.33UF Z 25V Y5V
C135	065T0603471 31	CHIP 470PF 50V NPO
C116	065T0603471 31	CHIP 470PF 50V NPO
C111	065T0603471 31	CHIP 470PF 50V NPO
C117	065T0603560 31	CHIP 56PF 50V NPO
C118	065T0603560 31	CHIP 56PF 50V NPO
C119	065T0805105 37	CHIP 1UF 50V Y5V
C120	065T0805105 37	CHIP 1UF 50V Y5V
C133	065T0805105 37	CHIP 1UF 50V Y5V
C108	065T1206335 17	CAP 1206 3.3UF Z 16V Y5V
L102	071T 56K121 M	CHIP BEAD
L103	071T 56K121 M	CHIP BEAD
L104	071T 56K121 M	CHIP BEAD
	715T1968 1	TUNER BOARD PCB

11. Different Parts List

Diversity of V196HXNSW9AXNP compared with V196HXNSW9AENP		
Location	Part No.	Description
	041T780061532C	SA CENTER LIST
	044T6000 4 6B	SPACE PAPER
	044T6002716 3A	PAPER BOARD
	044T9003214	CORNER PAPER
	052T6019 1	YELLOW TAPE
	Q34T0013 XWB1L 30	BEZEL
	033G6007 1	LENS
	040G 45762412B	CBPC LABEL
	052G6025 11631	MYLAR
C920	067G215C1024HV	EC 105°C CAP 1000UF M 25V
C912	067G215C1024HV	EC 105°C CAP 1000UF M 25V
C911	067G215C1024HV	EC 105°C CAP 1000UF M 25V
LED1	081G 2 3 1P	LED GPG2603T/R006-35A GUANGPU
	Q90G0078 1	HEAT SINK
	Q40G500B615 1D	ADAPTER RATING LABEL
U101	056T 563 20	IC AP1501-50K5LA ANACHIP
C103	065T0603105 22	CHIP 1UF 25V X7R 0603
	Q07T 7 T139	COMPOUND PALLET
	Q40T 192673 3B	RATING LABEL
	Q44T9020673 1C	CARTON
	Q45T 88609 65 R	EPE COVER
	Q45T 88626 8 R	PE BAG FOR MONITOR