SERVICE MANUAL

17” LCD MONITOR

171S

171S+

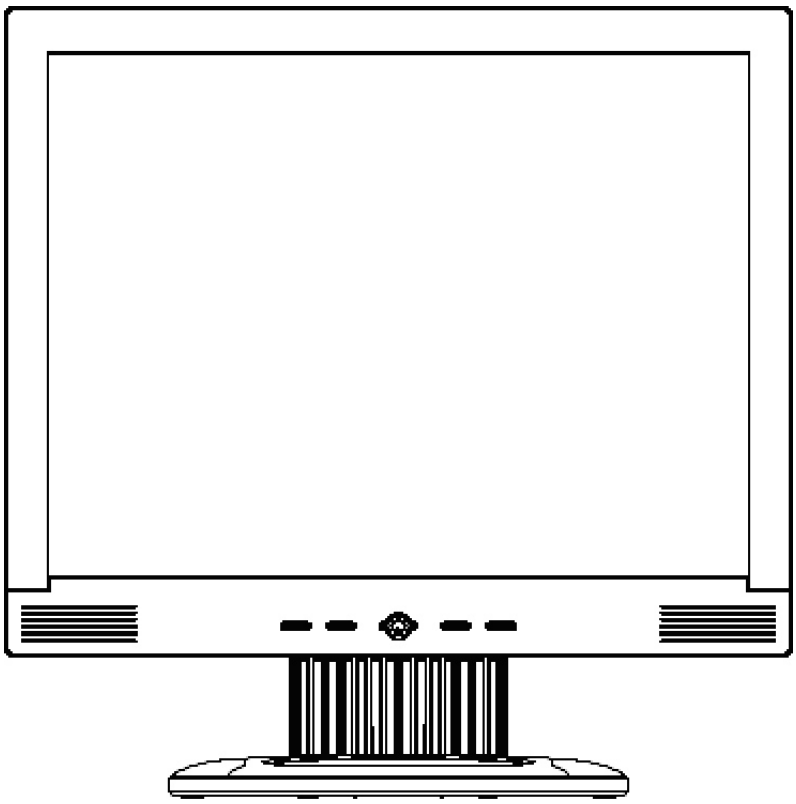


Table of Content

Revision List

Version	Date	Revision History	TPV Model Name
A00	Mar-17-06	Initial Revision	T780KC4MDAACM
			T780KV4MDAACM

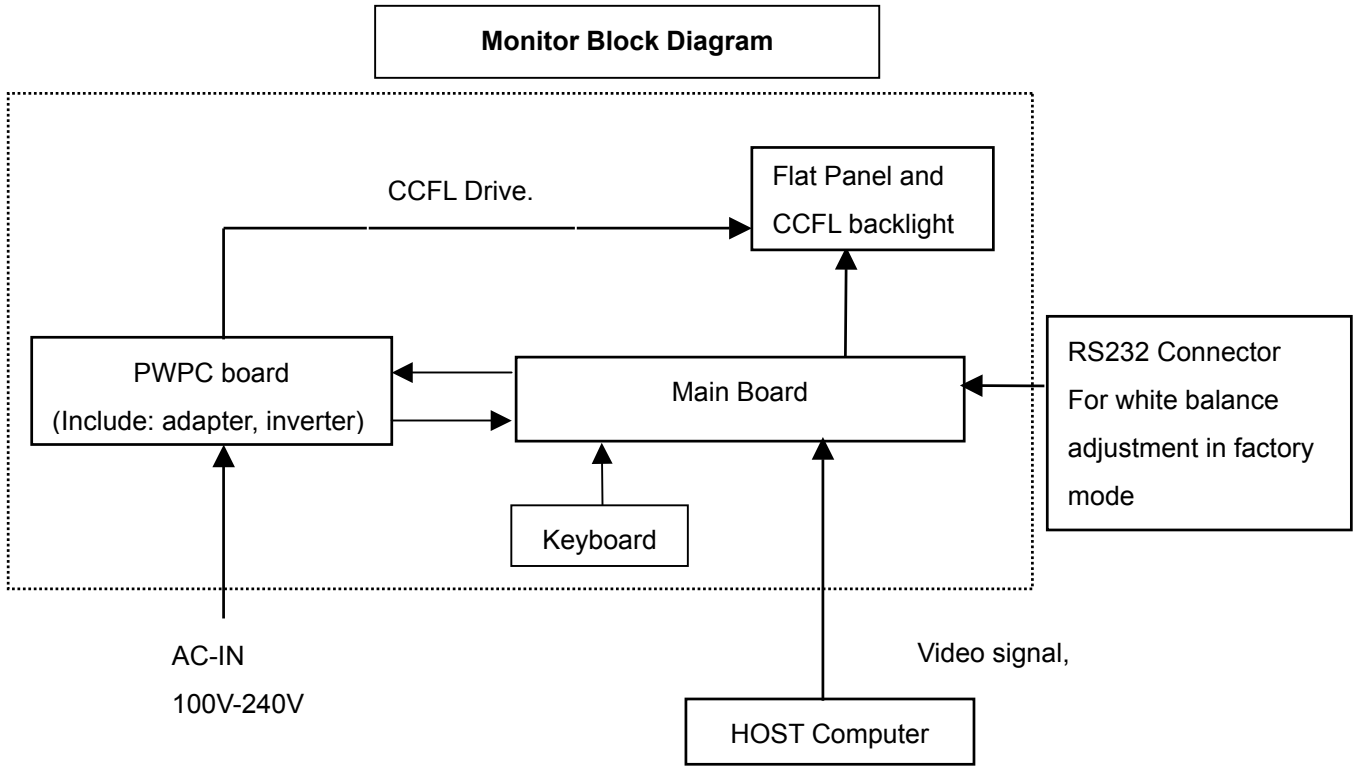
1. Monitor Specifications

Items	Description	
LCD Panel	Driving system	TFT Color LCD
	Type	CLAA170EA07 (for 171S) SVA170SX01TB (for 171S+)
	Size	43.2cm (17.0")
	Pixel pitch	0.264mm (H) x 0.264mm (V)
	Viewable angle	170(H) 170(V) (CR≧5) (for 171S) 130(H) 110(V) (for 171S+)
	Response time (type)	12 ms (for 171S) 8 ms (for 171S+)
Input	Sync. Type	H/V TTL
	Input Signal	15 Pin Analog
	H-Frequency	30kHz – 80kHz
	V-Frequency	55-75Hz
Power Consumption	ON Mode	≤45W
	OFF Mode	≤2W
Display Color	16.2M(6 Bit+ FRC) (for 171S) 16.77M colors (6bit+FRC) (for 171S+)	
Contrast Ratio	500:1 (for 171S) 600:1 (for 171S+)	
Dot Clock	135MHz	
White Luminance	300cd/m^2 (for 171S) 270 cd/m^2 (for 171S+)	
Max. Resolution	1280 x 1024	
Plug & Play	VESA DDC2B™	
Power Source	100~240VAC,47~63Hz	
Maximum Screen Size	Horizontal : 337.920mm Vertical: 270.336mm	
Environmental Conditions	Operating Temp: 5°C to 35°C Storage Temp: -20°C to 60°C Operating Humidity: 10% to 85%	

2. LCD Monitor Description

The LCD monitor will contain a main board, a power board and a keypad board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



3. Operating Instructions

3.1 General Instructions

Press the power button to turn the monitor on or off. The other control buttons are located in front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor position. The power indicator will light up.

3.2 Front Panel Control

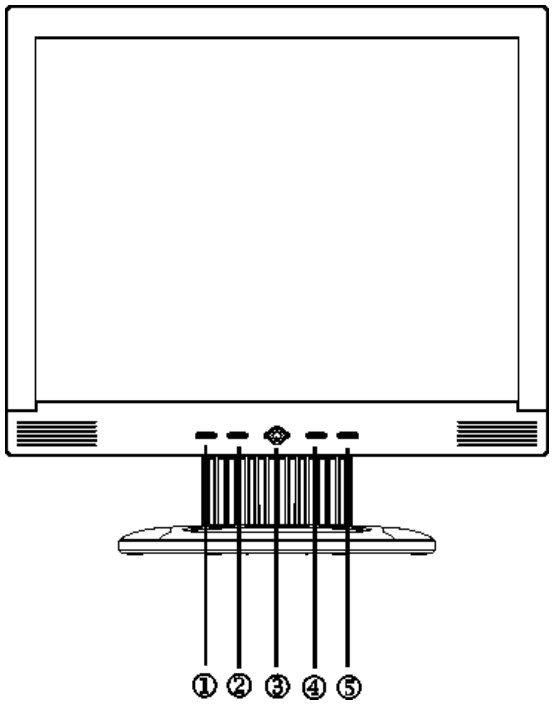
- **Auto Adjust Key:**

The Auto Adjust Key is used to automatically set the H Position, V Position, Clock and Phase.

- **Power Indicator:**

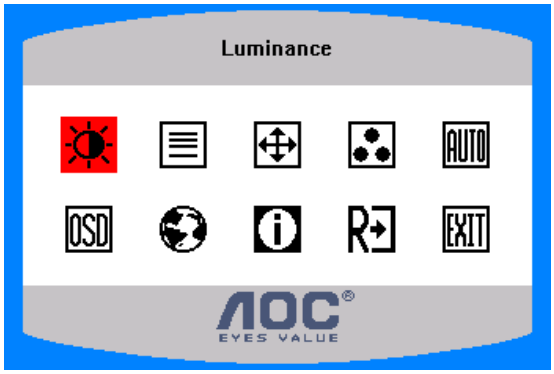
Green — Power On mode.

Orange — Power Saving mode.



NO.	Name	Within OSD	Without OSD
1	Auto/Exit	Exit OSD or back to previous menu	Auto configuration
2	◀/☼	1.Move the cursor to left 2. Decrease the value of the selected item	Activate the brightness menu
3	Power	Power On / Off	Power On / Off
4	▶/◑	1.Move the cursor to right 2. Increase the value of the selected item	Activate the contrast menu
5	MENU	Select Function or select Sub menu	Activate OSD main menu

3.3 Adjusting The Picture



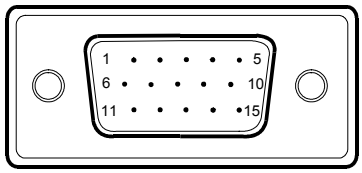
OSD TABLE:

Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description	Adjust Range	Reset Value
Luminance		Contrast		Contrast from Digital-register.	0-100	Recall Cool Contrast Value
		Brightness		Backlight Adjustment	0-100	Recall Cool Brightness Value
Image Setup		Focus		Adjust Picture Phase to reduce Horizontal-Line noise	0-100	Do Auto Config
		Clock		Adjust picture Clock to reduce Vertical-Line noise.	0-100	Do Auto Config
Image Position		H. Position		Adjust the horizontal position of the picture.	0-100	Do Auto Config
		V. Position		Adjust the vertical position of the picture.	0-100	Do Auto Config
Color Temp.		Warm	N/A	Recall Warm Color Temperature from EEPROM.	N/A	The Color Temperature will be set to Cool. The User R/G/B value (default is 100) will not be Modified by Reset function.
		Cool	N/A	Recall Cool Color Temperature from EEPROM.	N/A	
		User / Red	R	Red Gain from Digital-register.	0-100	
		User / Green	G	Green Gain Digital-register.	0-100	
		User / Blue	B	Blue Gain from Digital-register.	0-100	
Auto Config (Analog-Only Model)		Yes	N/A	Auto Adjust the H/V Position, Focus and Clock of picture.	N/A	N/A
		No	N/A	Do not execute Auto Config, return to main menu.	N/A	N/A

OSD Setup	OSD	H. Position		Adjust the horizontal position of the OSD.	0-100	50
		V. Position		Adjust the vertical position of the OSD.	0-100	50
		OSD Timeout		Adjust the OSD timeout.	10-120	10
Language		English	N/A	Set OSD display language to English.	N/A	The Language will be set to English.
		Deutsch	N/A	Set OSD display language to German.	N/A	
		Français	N/A	Set OSD display language to French.	N/A	
		Español	N/A	Set OSD display language to Spain.	N/A	
		Italiano	N/A	Set OSD display language to Italian.	N/A	
		简体中文	N/A	Set OSD display language to Simplified Chinese.	N/A	
Information		Information	N/A	Show the resolution, H/V frequency and input port of current input timing.	N/A	N/A
Reset		Yes	N/A	Clear each old status of Auto-configuration and set the color temperature to Cool.	N/A	N/A
		No	N/A	Do not execute reset, return to main menu.	N/A	N/A
Exit	EXIT	N/A	N/A	Exit OSD	N/A	N/A

4. Input/Output Specification

4.1 Input Signal Connector

Pin No.	Description	Pin No.	Description
1.	Red	**9.**	+5V
2.	Green	**10.**	Detect Table
3.	Blue	**11.**	Ground
4.	Ground	**12.**	DDC-Serial Data
5.	Ground	**13.**	H-Sync
6.	R-Ground	**14.**	V-Sync
7.	G-Ground	**15.**	DDC-Serial Clock
8.	B-Ground		
VGA connector layout			
			

4.2 Factory Preset Display Modes

VESA MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency +/- 0.5kHz	Sync Polarity	Nominal Freq. +/- 1 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
IBM MODES							
			Horizontal		Vertical		
2Mode	Resolution	Total	Nominal Frequency +/- 0.5kHz	Sync Polarity	Nominal Freq. +/- 1 Hz	Sync Polarity	Nominal Pixel Clock (MHz)
DOS*	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322
DOS**	640x400@70Hz	800 x 449	31.469	N	70.087	P	25.175
DOS	640x350@70Hz	800 x 449	31.469	P	70.087	N	25.175
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

4.3 Power Supply Requirement

A/C Line voltage range	100 V ~ 240 V
A/C Line frequency range	50 ± 3Hz, 60 ± 3Hz
Peak surge current	< 55A peak at 240 VAC and cold starting
Leakage current	< 3.5mA
Power line surge	No advance effects (no loss of information or defect) with a maximum of 1 half-wave missing per second
DC output Voltage	12VDC± 5％

4.4 Panel Specification

4.4.1 Panel Feature

for 171S+

- a-Si TFT active matrix
- LVDS interface
- R.G.B input 8bit, 16.77 millions colors (6bit+FRC)
- Resolution SXGA:(1280×1024 pixels)
- Module size: 358.5(H) ×296.5(V) ×17.5MAX(D)mm
- High response time (Ton+Toff=8 ms）
- High gamut: (against NTSC 72%typ.)
- Edge light type backlight (4 CCFL lamps)
- Inverter less
- Replaceable lamp for backlight

4.4.2 Display Characteristics

for 171S

ITEM	SPECIFICATION
Display Area(mm)	337.920(H)x270.336(V)　(17.0-inch diagonal)
Number of Pixels	1280(H)x1024(V)
Pixel Pitch(mm)	0.264(H)x0.264(V)
Color Pixel Arrangement	RGB vertical stripe
Display Mode	normally white, TN
Number of Colors	16.2M(6 Bit+FRC)
Brightness(cd/m^2)	300 cd/m^2(Typ.)(Center point, Lamp current=7.0 mA)
Viewing Angle	140/130(Typ.)
Surface Treatment	Anti-glare
Electrical Interface	LVDS , 2Ch
Total Module Power(W)	20.0 (Typ.)
Optimum Viewing Angle	6 o'clock
Module Size(mm)	358.5(W)x296.5(H)x17.5(D)
Module Weight(g)	2000(typ)
Backlight Unit	CCFL, 4 tables, edge-light(top*2/bottom*2)

for 171S+

Display area	337.92(H) x 270.34 (V) mm (typ.), [43.0 cm (17.0 inches)]
Drive system	a-Si TFT active matrix
Display color	16.77M colors (6bit+FRC)
Pixel	1,280 (H) x 1,024(V) pixels
Pixel arrangement	RGB (Red dot、Green dot、 Blue dot) vertical stripe
Pixel pitch	0.264 (W) x 0.264 (H) mm
Module size	358.5(H) ×296.5(V) ×17.5MAX(D)mm
Weight	1920 g (typ.)
Contrast ratio	600:1(typ.)
Viewing angle (At the contrast ratio 10：1)	• Horizontal: 130° (typ.) • Vertical: 110° (typ.)
Designed viewing direction	• Viewing angle with optimum grayscale (γ=2.2): normal axis
Color gamut	At LCD panel center 72 % (typ.) [against NTSC color space]
Response time	Ton (white 90%⟶ black 10%) + Toff (black 10%⟶ whjte 90%) 8 ms (typ.)
Luminance	At IBL = 7.5Arms / lamp 270cd/m2(typ.)
Signal system	LVDS 2port [RGB :8-bit, Dot clock (CLK), Data enable (DE)]
Power supply voltage	LCD panel signal processing board：5.0V
Backlight	Edge light type：4 cold cathode fluorescent lamps (Replaceable part)
Power consumption	At IBL=7.5Arms / lamp and checkered flag pattern 20.0W (typ.)

4.4.3 Optical Characteristics

for 171S

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Contrast Ratio		CR	$\theta = \phi = 0^\circ$	450	500	--	--
Luminance	Center	L	$\theta = \phi = 0^\circ$	250	300	--	cd/m2
	Uniformity	□L	$\theta = \phi = 0^\circ$	75%	--	--	
Response Time		Tr	$\theta = \phi = 0^\circ$	--	5	10	ms
		Tf	$\theta = \phi = 0^\circ$	--	7	14	ms
Viewing Angle	Horizontal	ϕ	CR≧5	80/80	85/85	--	
	Vertical	θ		80/80	85/85	--	
	Horizontal	ϕ	CR≧10	60/60	70/70	--	
	Vertical	θ		60/55	67/63	--	
Color Coordinates	White	Wx Wy	$\theta = \phi = 0^\circ$	0.283 0.299	0.313 0.329	0.343 0.359	--
	Red	Rx Ry		0.614 0.308	0.644 0.338	0.674 0.368	
	Green	Gx Gy		0.237 0.592	0.267 0.622	0.297 0.652	
	Blue	Bx By		0.110 0.054	0.140 0.084	0.170 0.114	
Image sticking		Tis	2 hour			2	sec
Crosstalk		CT				1%	
Flicker		f		--	--	-20	db
Gamut		CS		69%	72%		
Gamma		y	GL(32-223)	2.0	2.3	2.6	

for 171S+

Parameter Note1		Condition	Symbol	min.	typ.	max.	Unit	Remarks
Luminance		White at center θR=0°, θL=0°, θU=0°, θD=0°	L	220	270	-	cd/ m^2	-
Contrast ratio		White/Black at center θR=0°, θL=0°, θU=0°, θD=0°	CR	400	600	-	-	Note3
Luminance uniformity		White θR=0°, θL=0°, θU=0°, θD=0	LU	-	1.2	1.3	-	Note4
Chromaticity	White	X coordinate	Wx	0.283	0.313	0.343	-	Note5
		Y coordinate	Wy	0.299	0.329	0.359	-	
	Red	X coordinate	Rx	0.62	0.65	0.68	-	
		Y coordinate	Ry	0.31	0.34	0.37		
	Green	X coordinate	Gx	0.27	0.30	0.33		
		Y coordinate	Gy	0.59	0.62	0.65		
	Blue	X coordinate	Bx	0.11	0.14	0.17		
		Y coordinate	By	0.04	0.07	0.10		
Color gamut		θR=0°, θL=0°, θU=0°, θD=0 At center,against NTSC	C	65	72	-	%	
Response time		White to black	Ton	-	2	6	ms	Note6
		Black to white	Toff	-	6	14	ms	Note7
Viewing angle	Right	θU=0°, θD=0°,CR=10	θR	50	65	-	°	Note8
	Left	θU=0°, θD=0°,CR=10	θL	50	65	-	°	
	Up	θR=0°, θL=0°,CR=10	θU	30	45	-	°	
	Down	θR=0°, θL=0°,CR=10	θD	50	65	-	°	

4.4.4 Electrical Characteristics

1. TFT LCD Module:

for 171S

ITEM		SYMBOL	MIN	TYP	MAX	UNIT	Remark
Power Supply Voltage for LCD		Vin	4.5	5.0	5.5	V	Note1
Power Supply Current for LCD		Iin	-	700	950	mA	Note2
Permissive Input Ripple Voltage		VRP	-	-	100	mVp-p	Vcc=5.0V
Differential impedance		Zm	90	100	110	Ω	
Logic input Voltage LVDS:IN+ • IN-	Common Mode Voltag	VCM	1.125	1.25	1.375	V	
	Differential Input Voltage	|VID|	250	350	450	mV	
	Threshold Voltage(High)	VTH	-	-	100	mV	Note3
	Threshold Voltage(Low)	VTL	-100	-	-	mV	
I rush Current		Irush			3	A	Note 4

for 171S+

Parameter		Symbol	min.	typ.	max.	Unit	Remarks
Power supply voltage		VDD	4.5	5.0	5.5	V	-
Power supply current		IDD	-	510 Note1	900 Note2	mA	at VDD = 5.0V
Permissible ripple voltage		VRP	-	-	100	mV	VDD
Differential input threshold voltage for LVDS receiver	Low	VTL	-100	-	-	mV	at VCM = 1.2V Note3
	High	VTH	-	-	+100	mV	
Input voltage width for LVDS receiver		VI	0	-	2.4	V	-
Terminal resistor		RT	-	100	-	Ω	-
Input voltage for TxSEL signal	Low	VFL	-	-	1.0	V	TxSEL Note4
	High	VFH	Please keep open			V	
Input current for TxSEL signal		IFL	-160	-	-17	μA	

2. Back Light Unit:

for 171S

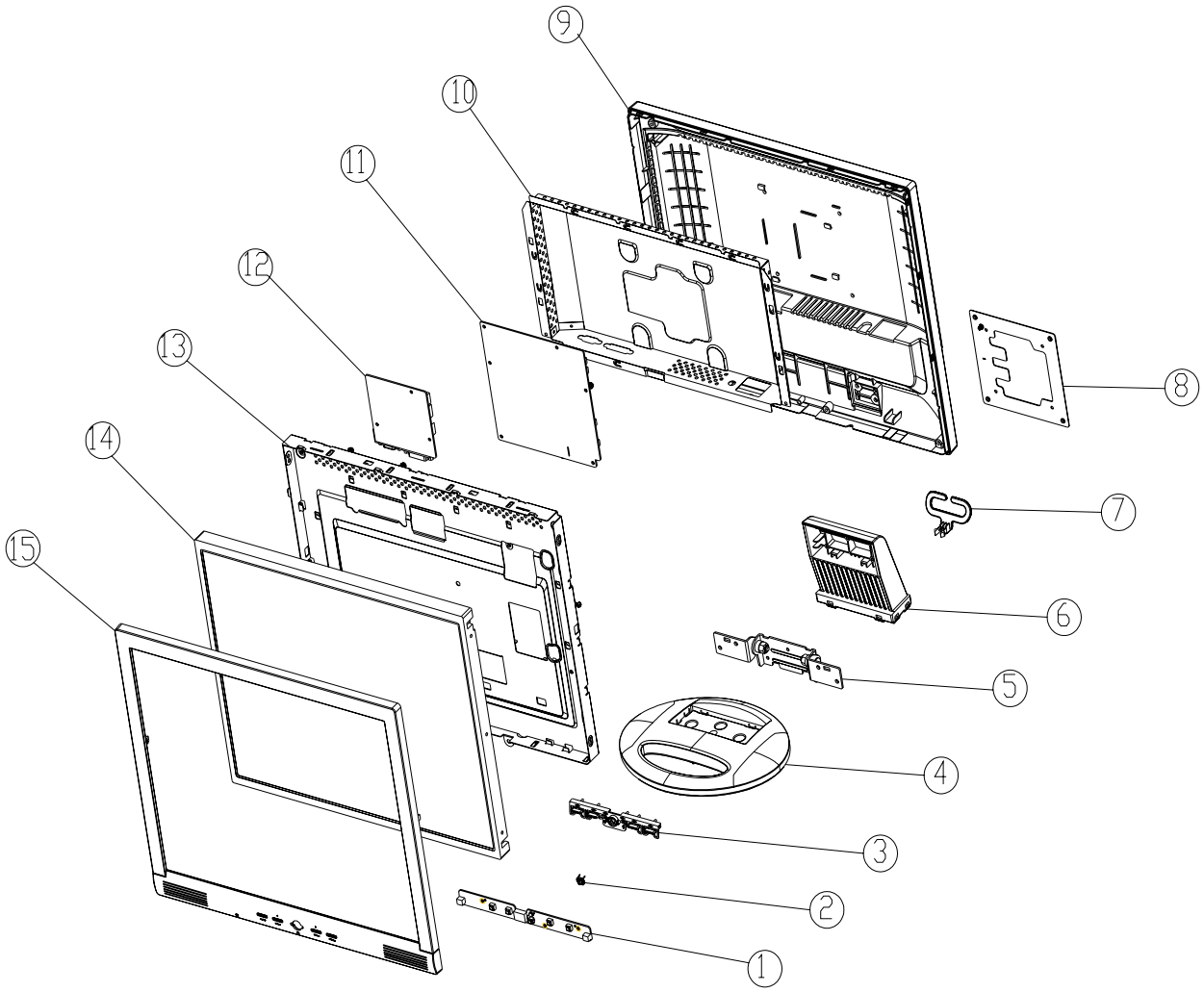
ITEM	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
Lamp Voltage	VL	540	600	660	Vrms	IL=7.0mA
Lamp Current	IL	3	7	7.5	mArms	Note1,2
Interter Frequency	FL	45	50	65	kHz	Note3,4
Starting Lamp Voltage	VS	1710	--	--	Vrms	Tb=0• •
		1320	--	--	Vrms	Ta=25• •

for 171S+

Parameter	Symbol	min.	typ.	max.	Unit	Remarks
Lamp voltage	VBLH	-	580	-	Vrms	Note2、Note3
Lamp current	IBL	3.5	7.5	9.0	mArms	Note3
Lamp starting voltage (discharge stabilization voltage)	Vs	970	-	-	Vrms	Ta = 25℃ Note2、Note3
		1120	-	-	Vrms	Ta =0℃ Note2、Note3
Lamp oscillation frequency	FO	40	48	55	kHz	Note4

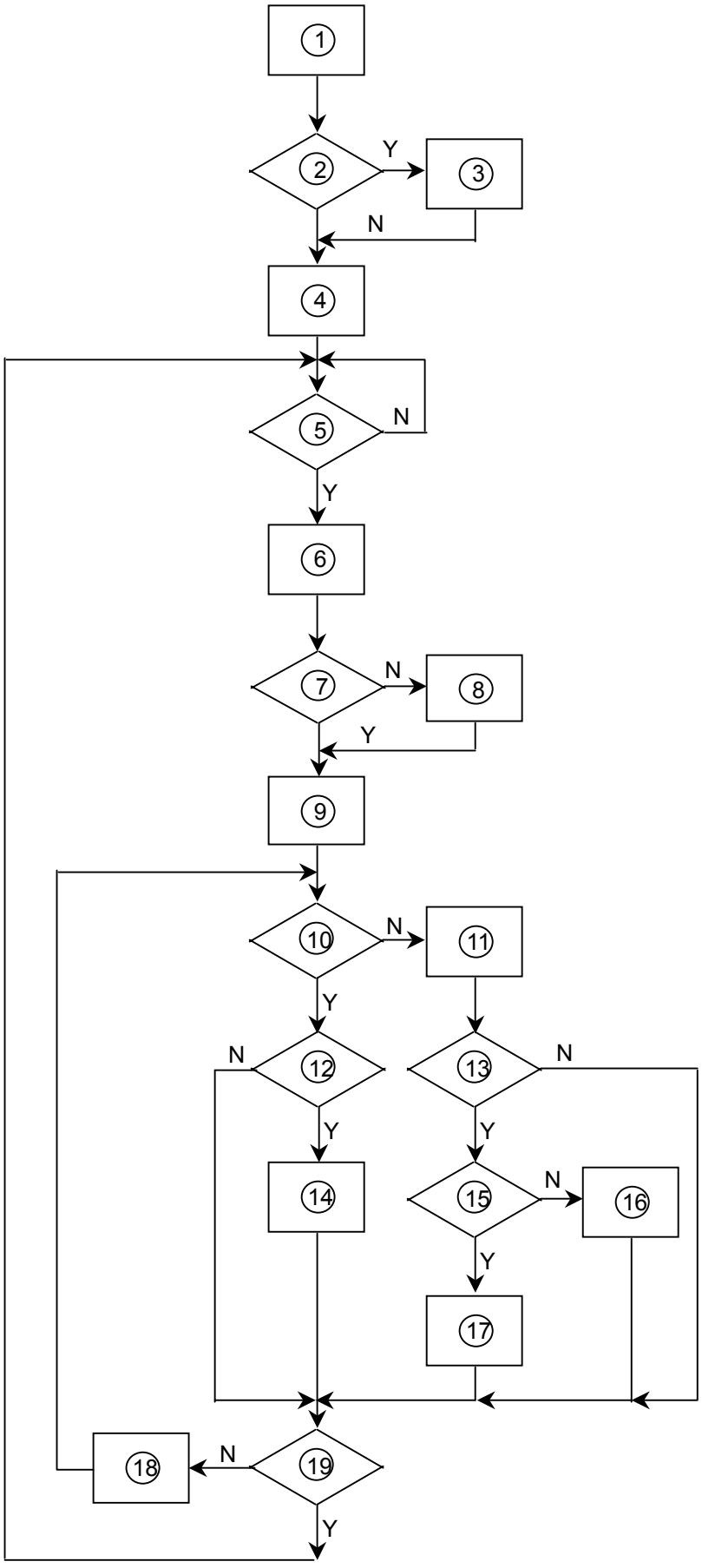
5. Block Diagram

5.1 Monitor Exploded View



ITEM	NAME	TYPE
1	KEY BOARD	
2	LED	ASSEMBLE
3	KEY PAD	PART
4	BASE	PART
5	HINGE	PART
6	STAND	PART
7	CLAMP	PART
8	VESA BKT	PART
9	REARCOVER	PART
10	MAIN SHIELD	PART
11	POWER BOARD	ASSEMBLE
12	MAIN BOARD	ASSEMBLE
13	MAIN FRAME	PART
14	PANEL	PART
15	BEZEL	PART

5.2 Software Flowing Chart

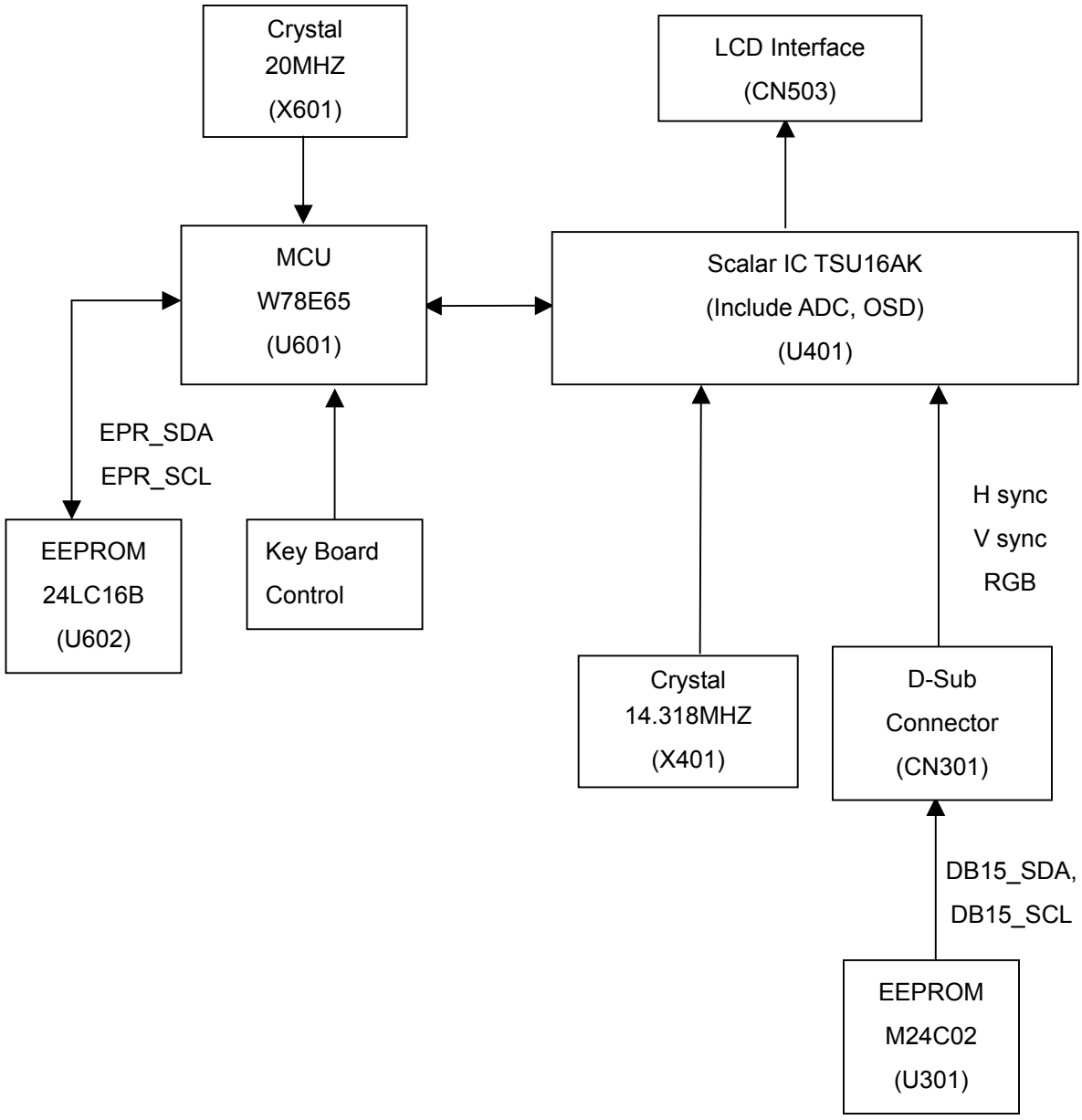


1) MCU initialize.
2) Is the EEprom blank?
3) Program the EEprom by default values.
4) Get the PWM value of brightness from EEprom.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEprom. Turn on the LED and set it to green color. Scalar initialize.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are they’re 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?

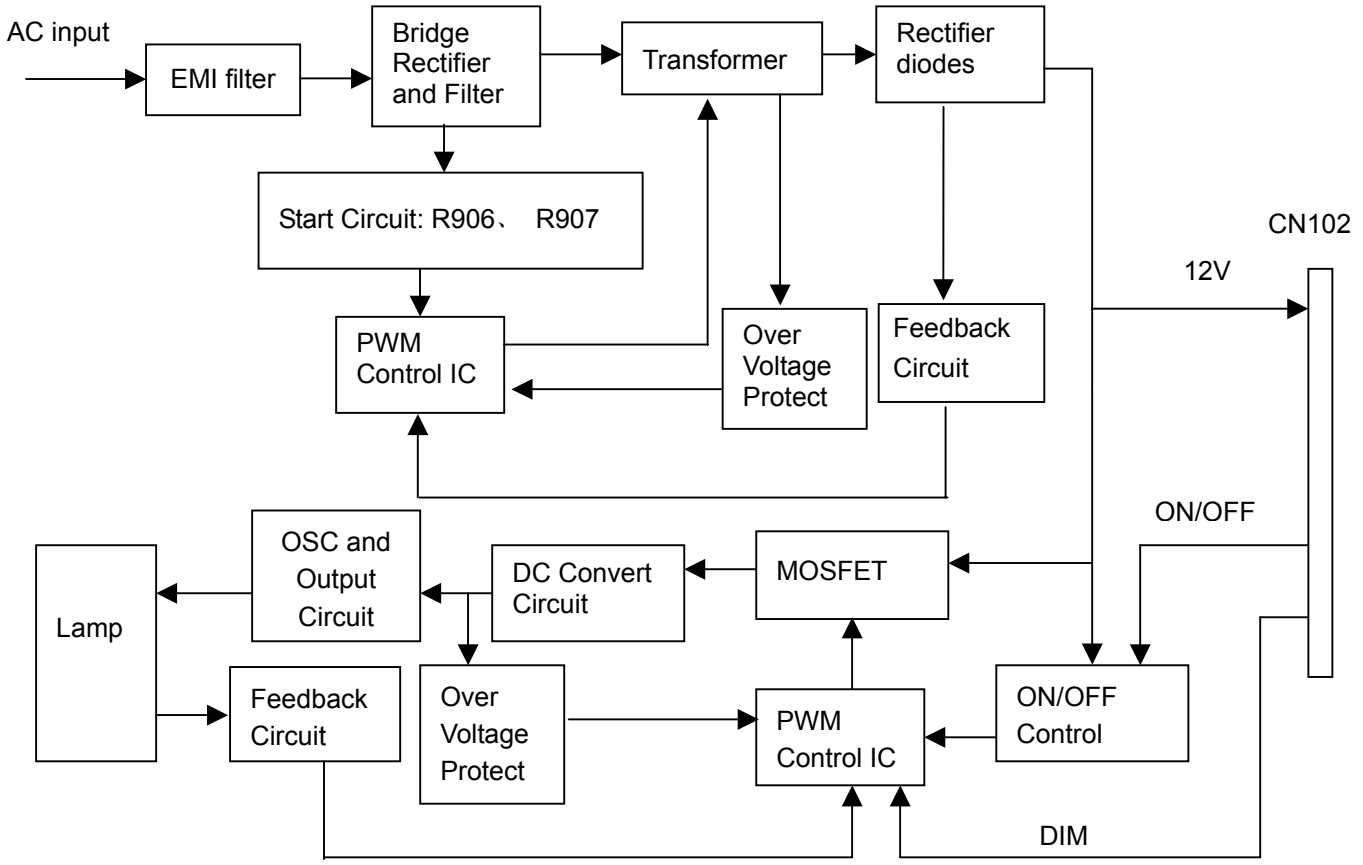
REMARK:

5.3 Electrical Block Diagram

5.3.1 Main Board



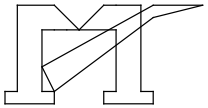
5.3.2 Inverter/Power Board



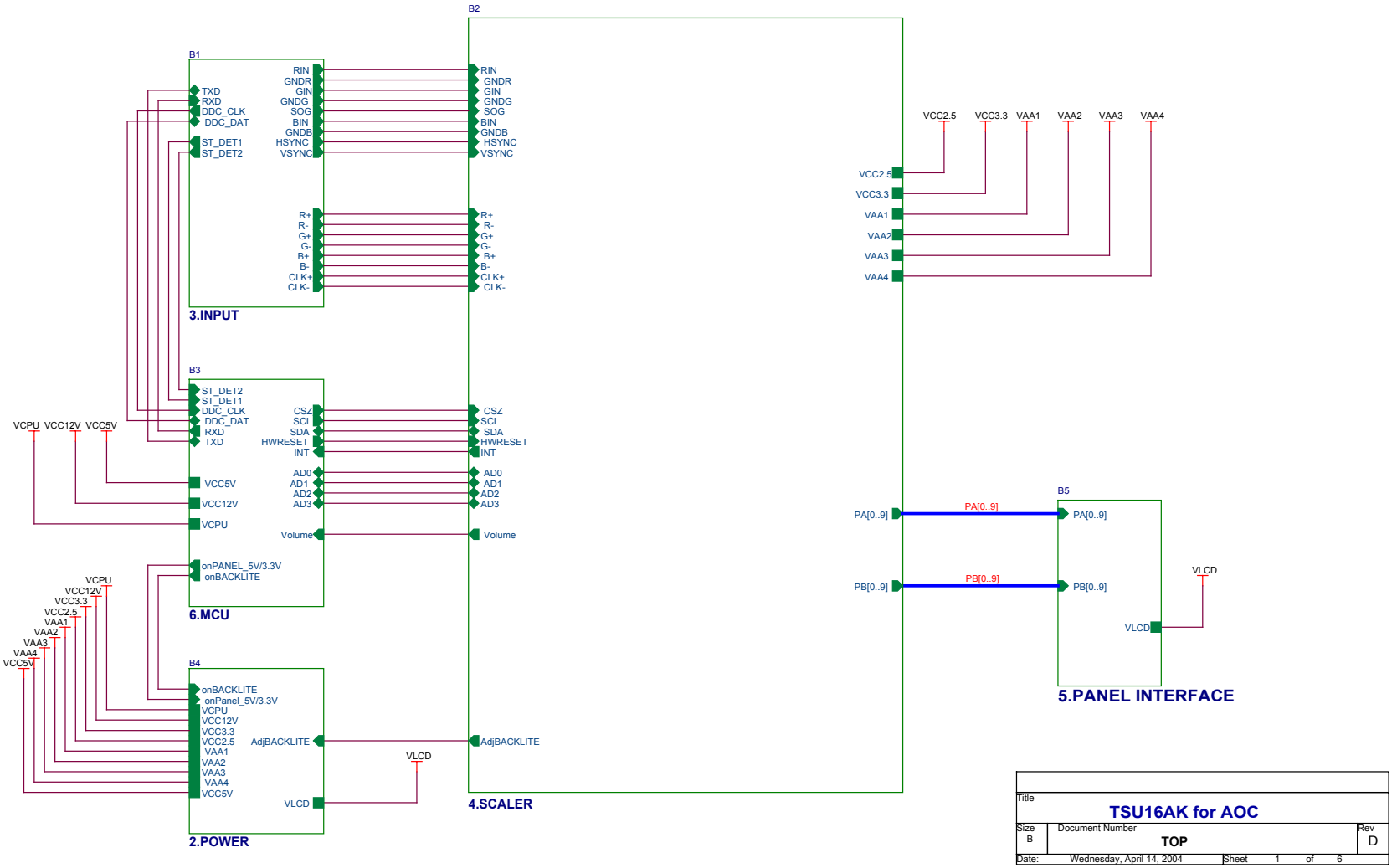
6. Schematic

6.1 Main Board

715L1237-1-3



TSU16AK SCHEMATIC



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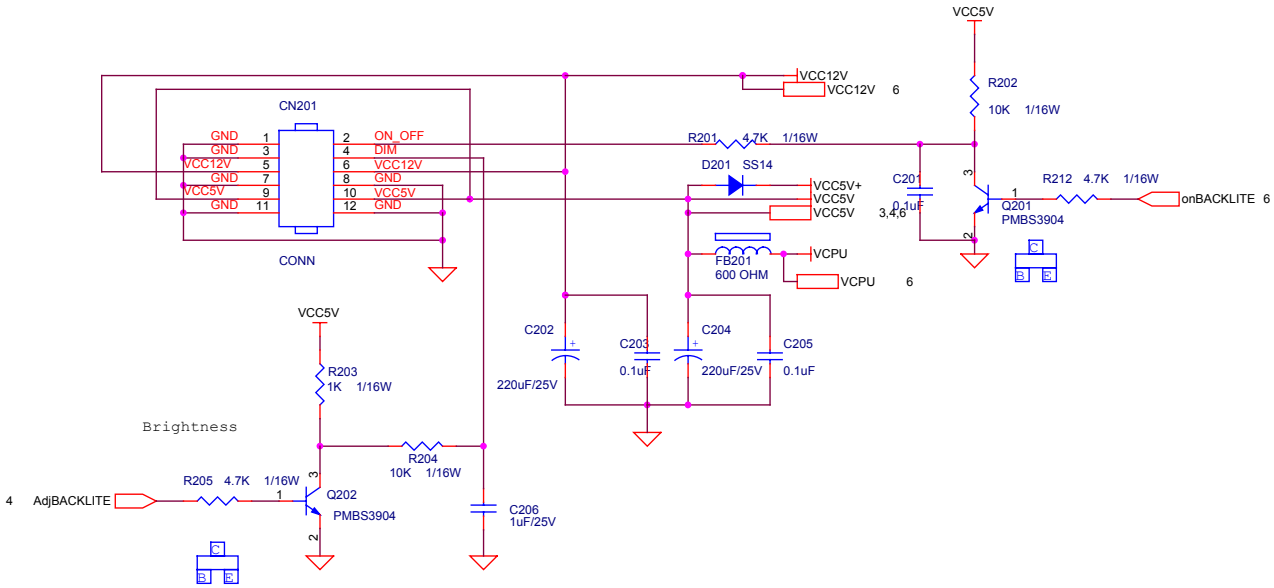
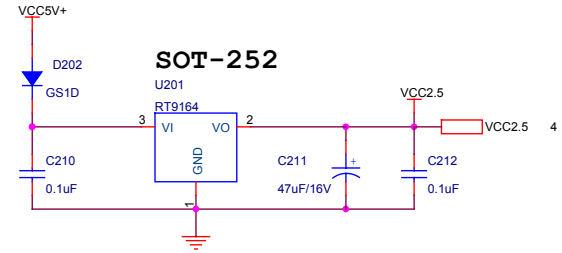
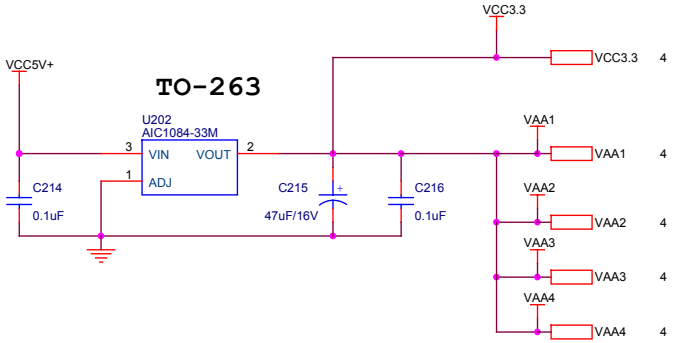
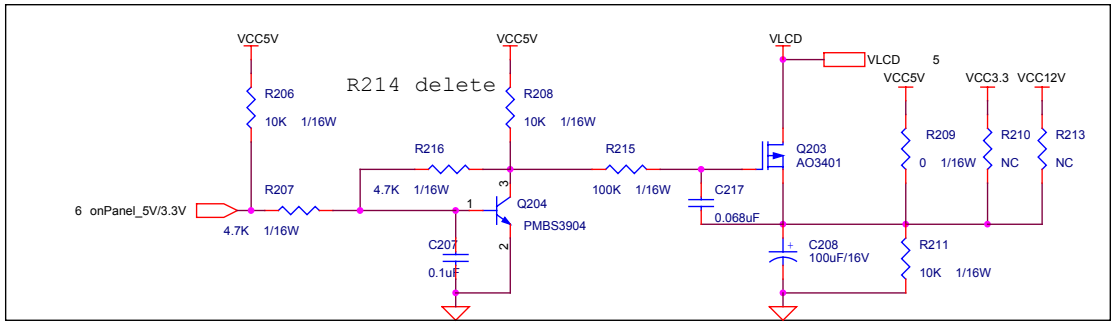
Date: Wednesday, April 14, 2004	Sheet 1 of 6	







NEW
Circuit



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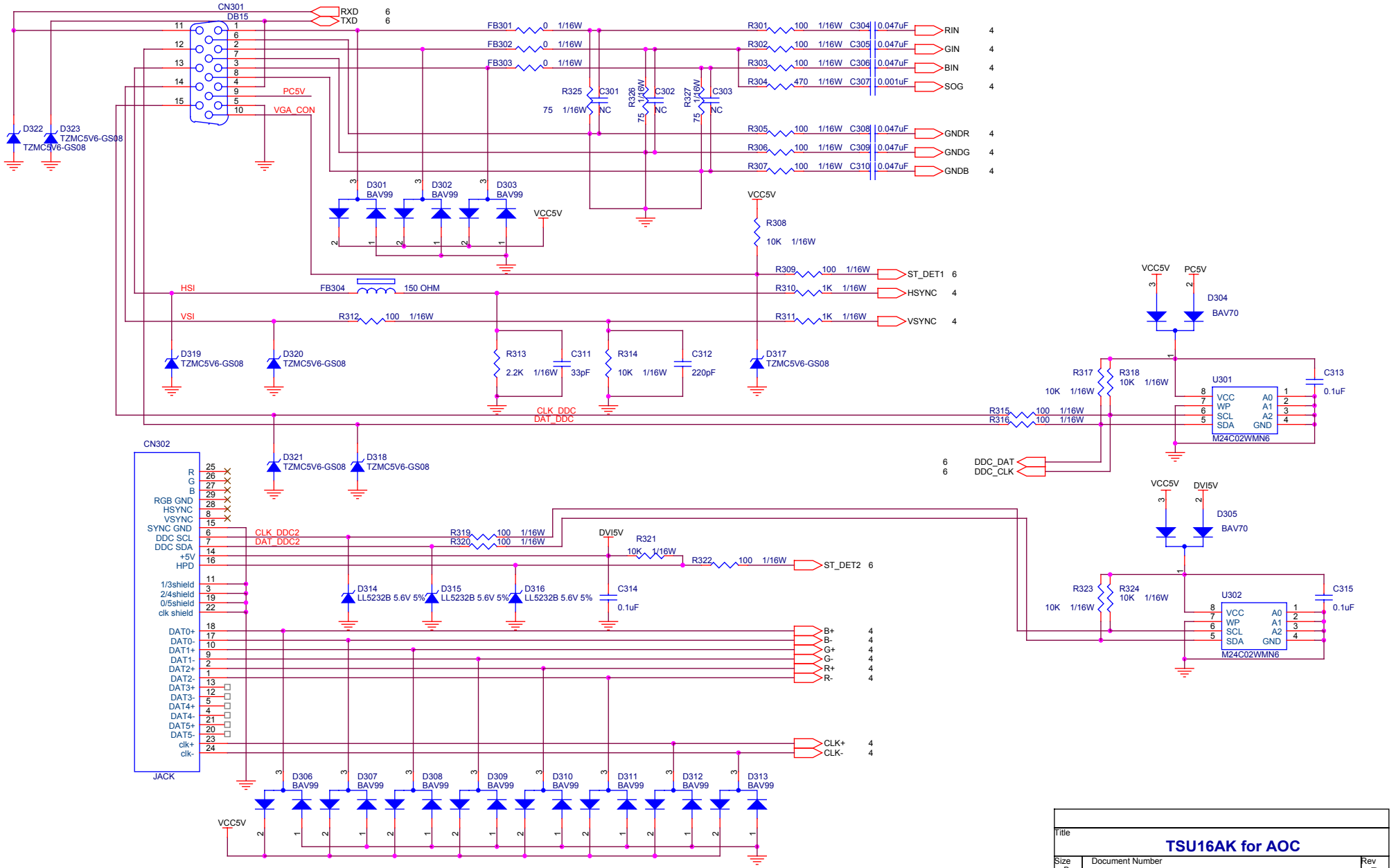

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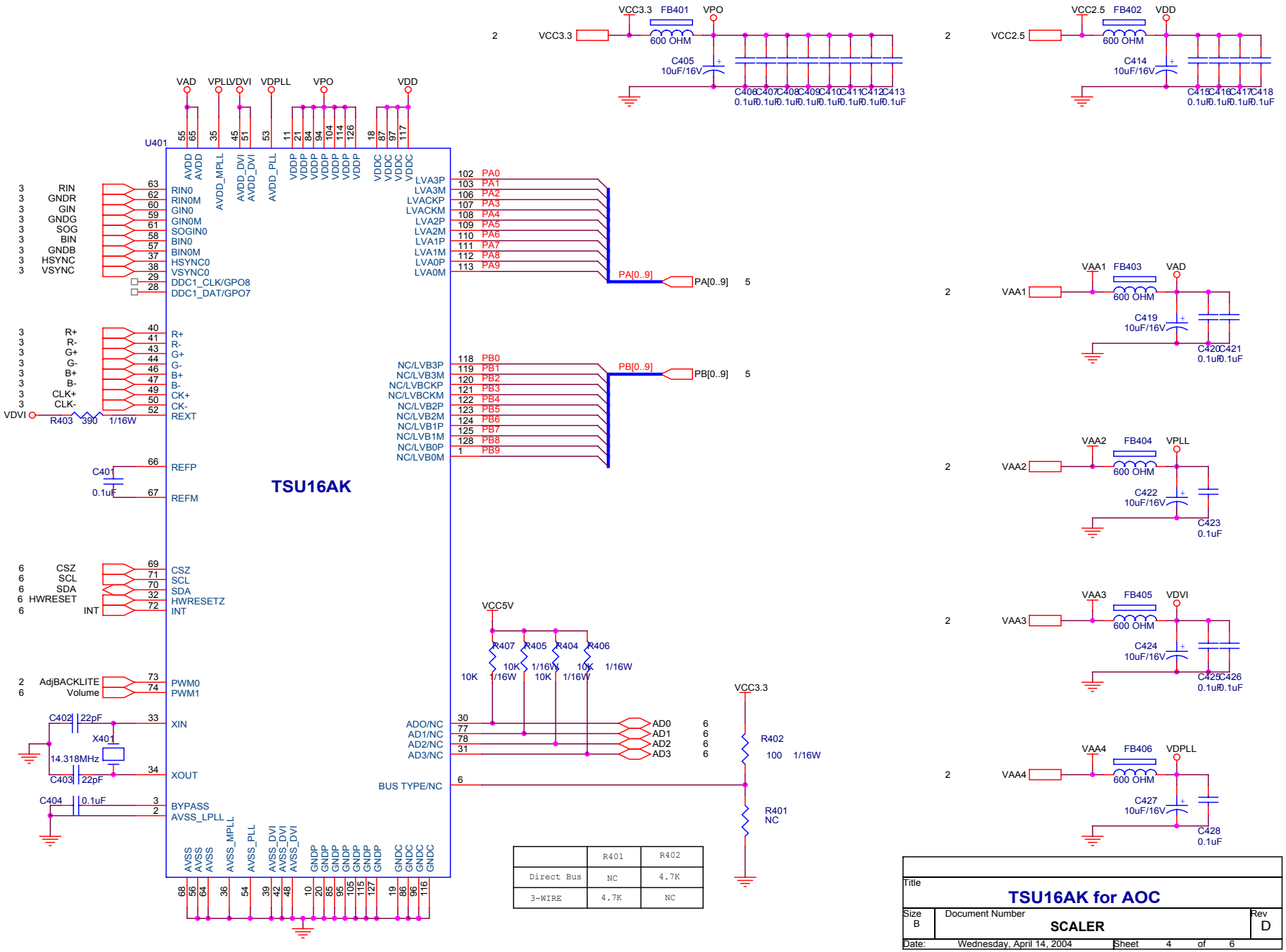
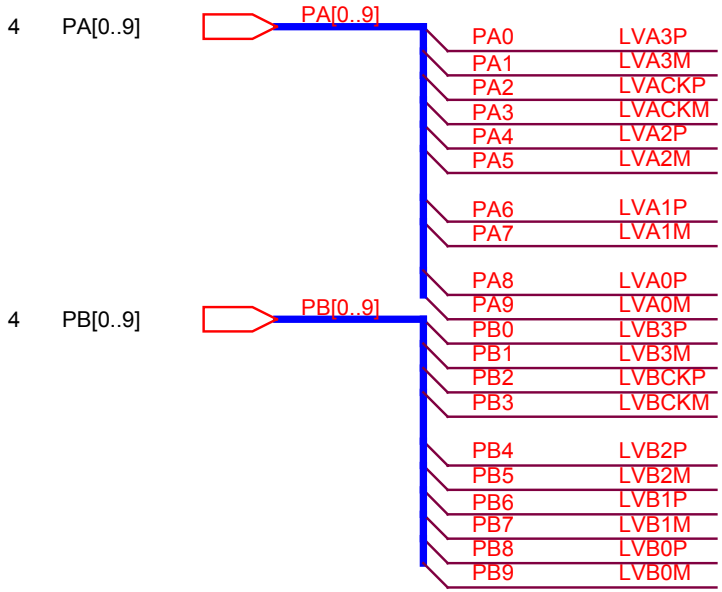
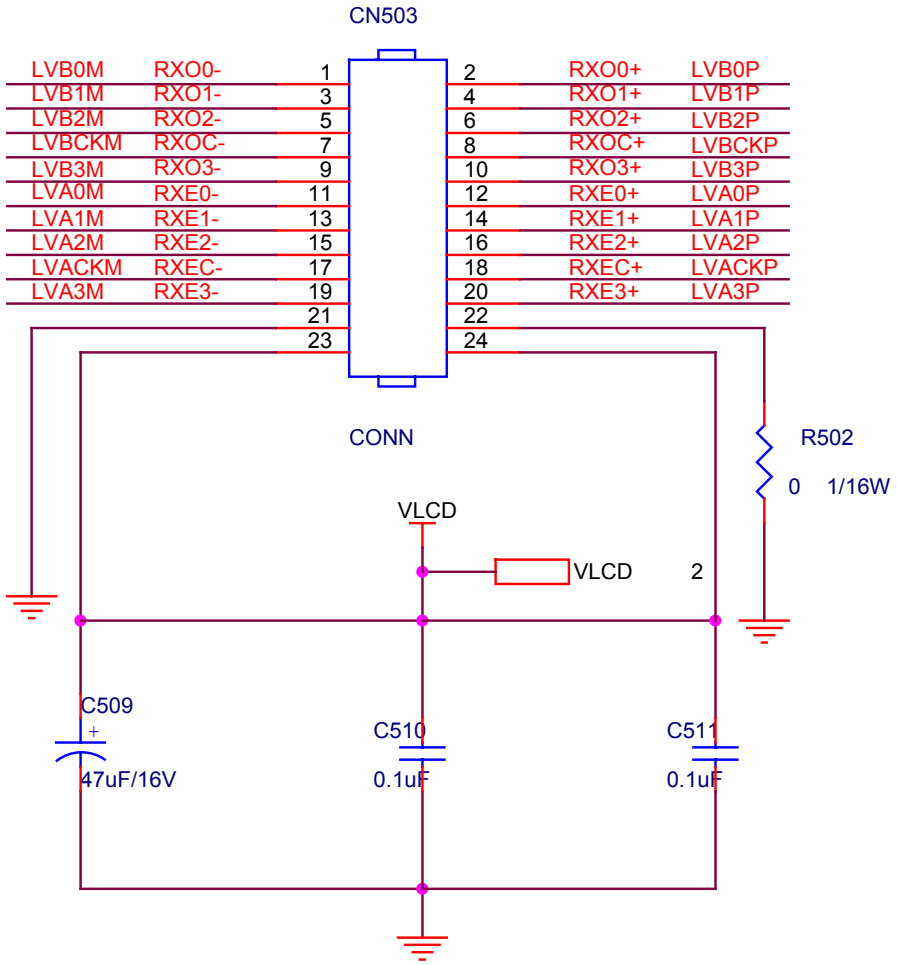


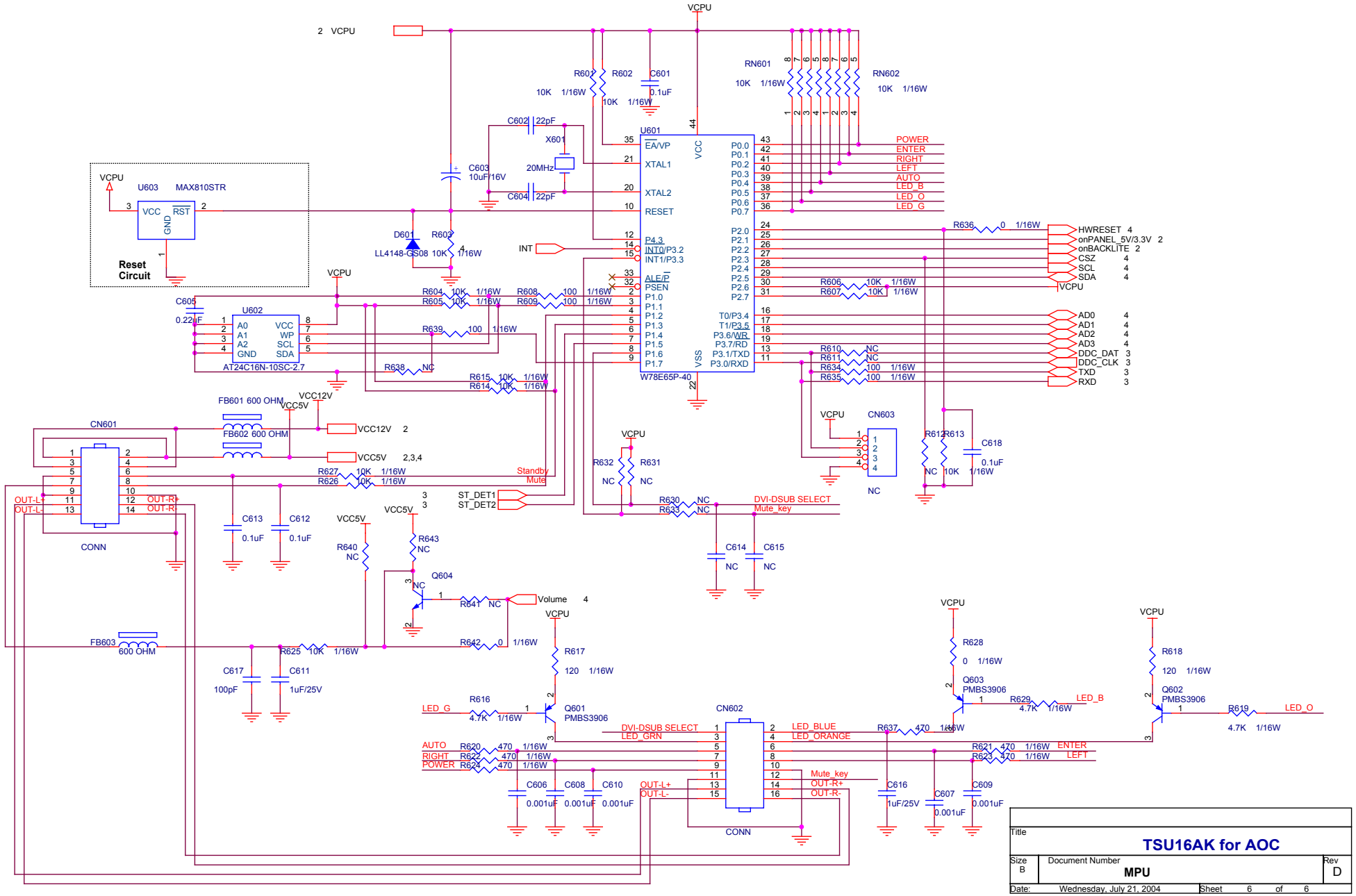
	R401	R402
Direct Bus	NC	4.7K
3-WIRE	4.7K	NC

Title	TSU16AK for AOC		
Size B	Document Number SCALER		Rev D
Date: Wednesday, April 14, 2004		Sheet 4 of 6	



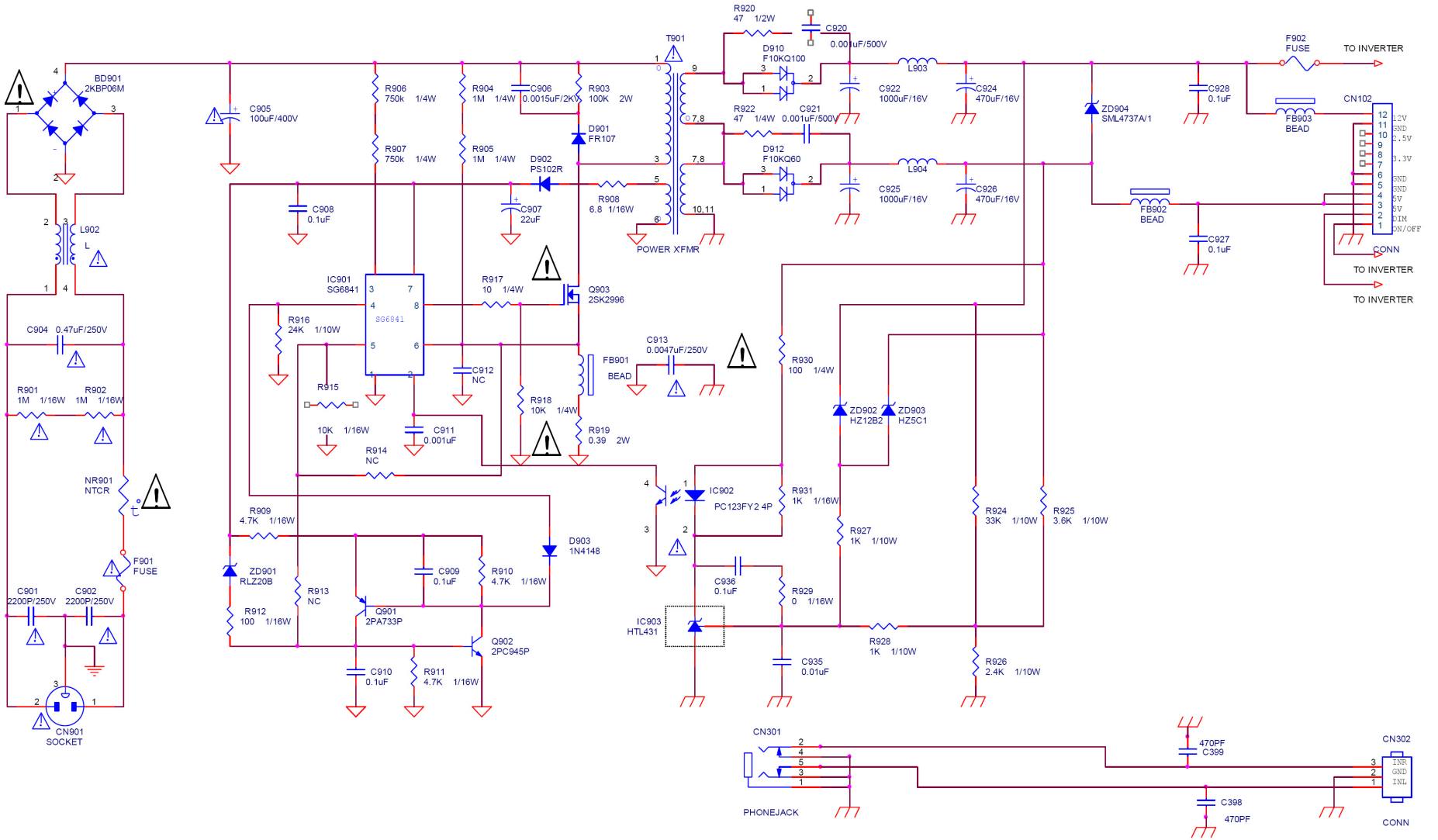


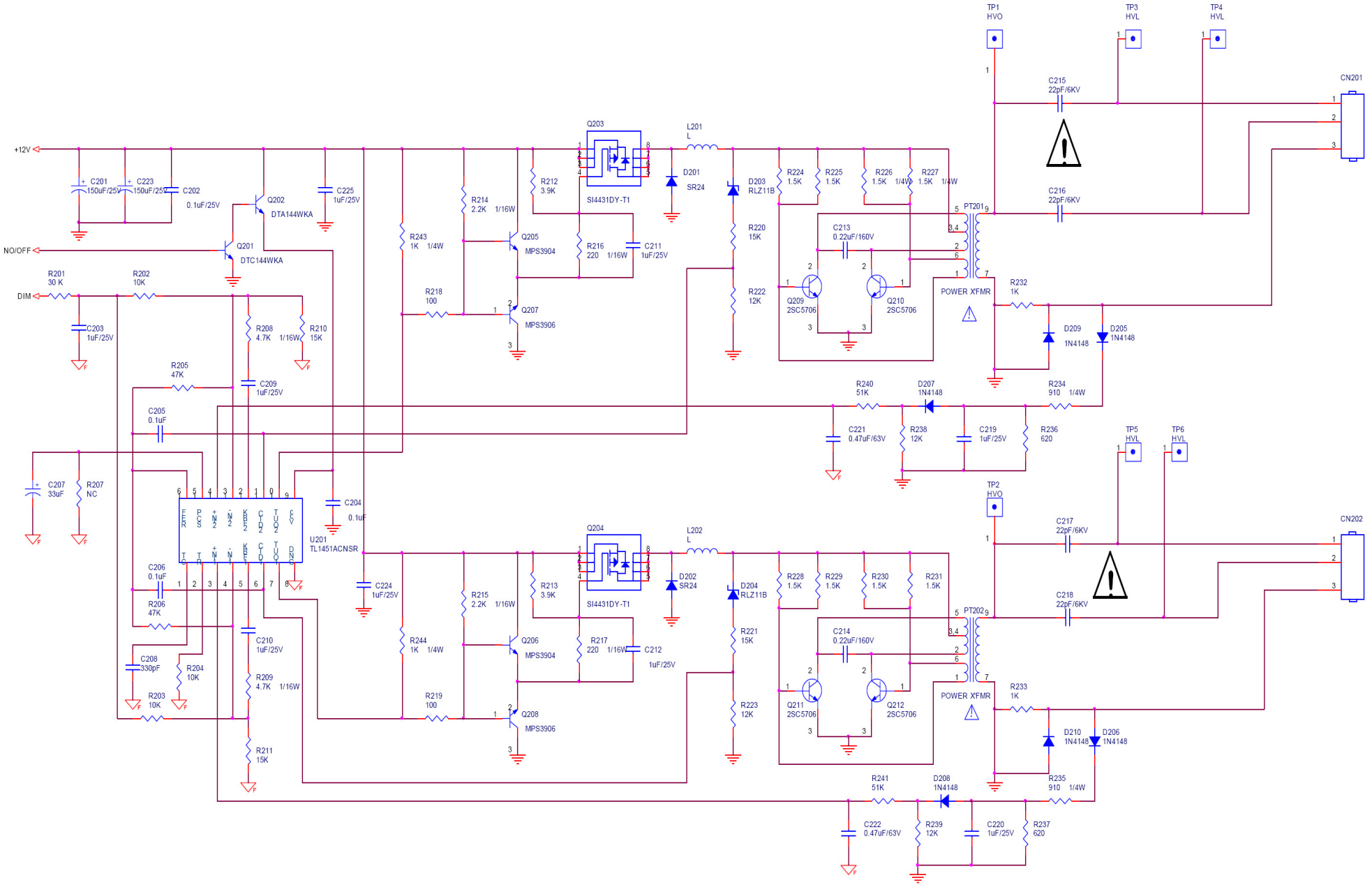
Title	TSU16AK for AOC	
Size A	Document Number PANEL INTERFACE	Rev D
Date: Wednesday, April 14, 2004	Sheet 5 of 6	


VCPU
U603 MAX810STR
VCC RST GND
Reset Circuit
U602
AT24C16N-10SC-2.7
U601
W78E65P-40
X601
20MHz
C601 0.1uF
C602 22pF
C603 10uF/16V
C604 22pF
D601 LL4148-GS08
R603 10K 1/16W
INT
RN601 10K 1/16W
RN602 10K 1/16W
POWER
ENTER
RIGHT
LEFT
AUTO
LED_B
LED_O
LED_G
R636 0 1/16W
HWRESET 4
onPANEL_5V/3.3V 2
onBACKLITE 2
CSZ 4
SCL 4
SDA 4
AD0 4
AD1 4
AD2 4
AD3 4
DDC_DAT 3
DDC_CLK 3
TXD 3
RXD 3
CN601
CONN
FB601 600 OHM
FB602 600 OHM
FB603 600 OHM
VCC12V
VCC5V
Standby Mute
ST_DET1
ST_DET2
DVI-DSUB SELECT
Mute_key
CN603
CN602
Volume 4
Q604
Q601 PMBS3906
Q603 PMBS3906
Q602 PMBS3906
LED_BLUE
LED_ORANGE
LED_GRN
OUT-L+
OUT-L-
OUT-R+
OUT-R-
Title
TSU16AK for AOC
Size B
Document Number
MPU
Rev D
Date: Wednesday, July 21, 2004
Sheet 6 of 6

6.2 Power Board

715L1103- 217A

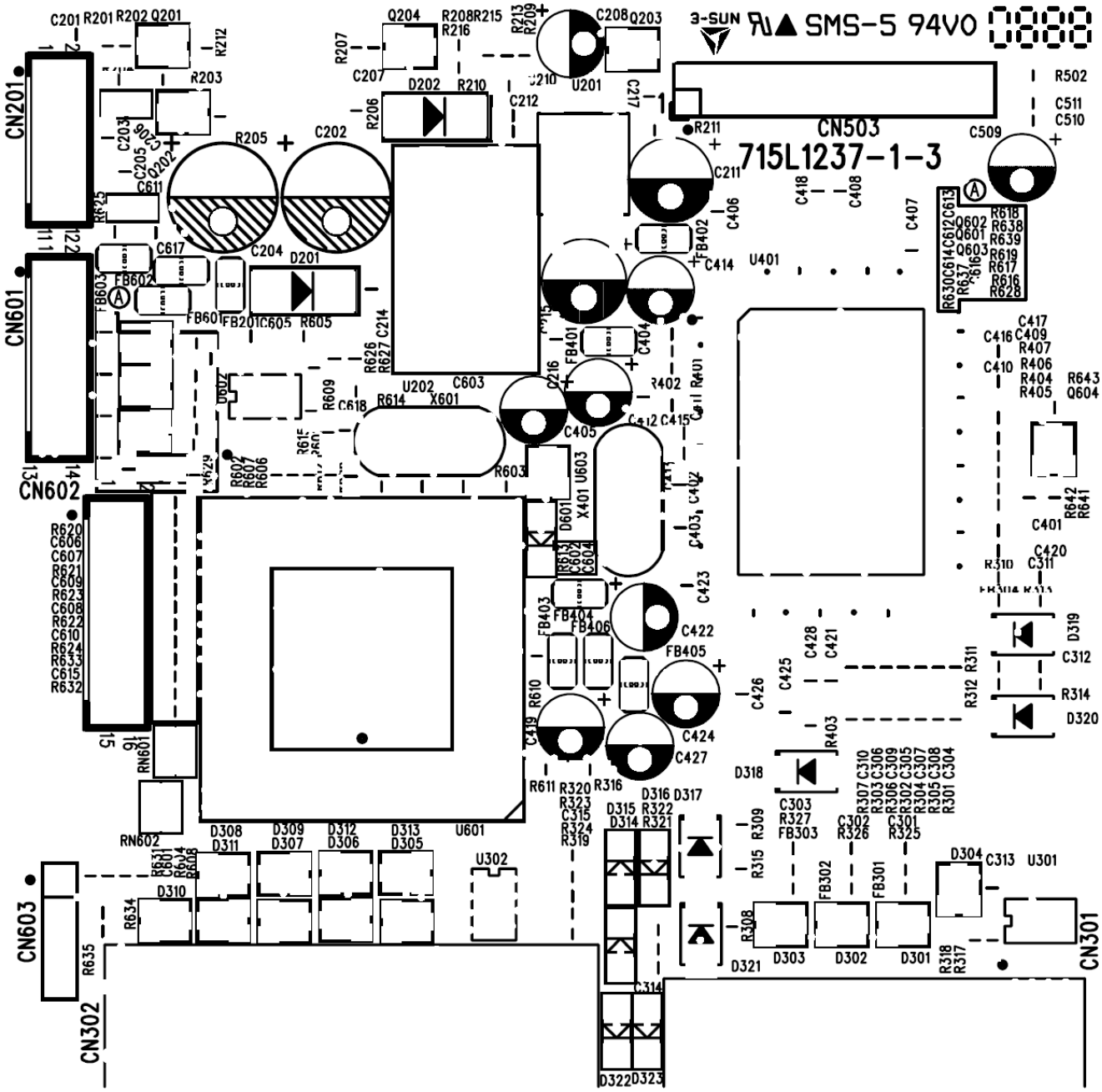



+12V
NO/OFF
DIM
C201 150uF/25V
C223 150uF/25V
C202 0.1uF/25V
Q202 DTA144WKA
Q201 DTC144WKA
C225 1uF/25V
R201 30 K
R202 10K
C203 1uF/25V
R205 47K
C205 0.1uF
C207 33uF
R207 NC
R208 4.7K 1/16W
R210 15K
C209 1uF/25V
U201 TL1451ACNSR
C204 0.1uF
C206 0.1uF
R206 47K
C208 330pF
R204 10K
R203 10K
C210 1uF/25V
R209 4.7K 1/16W
R211 15K
C224 1uF/25V
Q203
SI4431DY-T1
L201 L
D201 SR24
D203 RLZ11B
R212 3.9K
R214 2.2K 1/16W
R243 1K 1/4W
R218 100
Q205 MPS3904
Q207 MPS3906
R216 220 1/16W
C211 1uF/25V
R220 15K
R222 12K
R224 1.5K
R225 1.5K
R226 1.5K 1/4W
R227 1.5K 1/4W
C213 0.22uF/160V
Q209 2SC5706
Q210 2SC5706
PT201
POWER XFMR
R232 1K
D209 1N4148
D205 1N4148
R240 51K
D207 1N4148
R234 910 1/4W
C221 0.47uF/63V
R238 12K
C219 1uF/25V
R236 620
TP1 HVO
TP3 HVL
TP4 HVL
C215 22pF/6KV
C216 22pF/6KV
CN201
TP5 HVL
TP6 HVL
TP2 HVO
C217 22pF/6KV
C218 22pF/6KV
CN202
Q204
SI4431DY-T1
L202 L
D202 SR24
D204 RLZ11B
R213 3.9K
R215 2.2K 1/16W
R244 1K 1/4W
R219 100
Q206 MPS3904
Q208 MPS3906
R217 220 1/16W
C212 1uF/25V
R221 15K
R223 12K
R228 1.5K
R229 1.5K
R230 1.5K
R231 1.5K
C214 0.22uF/160V
Q211 2SC5706
Q212 2SC5706
PT202
POWER XFMR
R233 1K
D210 1N4148
D206 1N4148
R241 51K
D208 1N4148
R235 910 1/4W
C222 0.47uF/63V
R239 12K
C220 1uF/25V
R237 620

7. PCB Layout

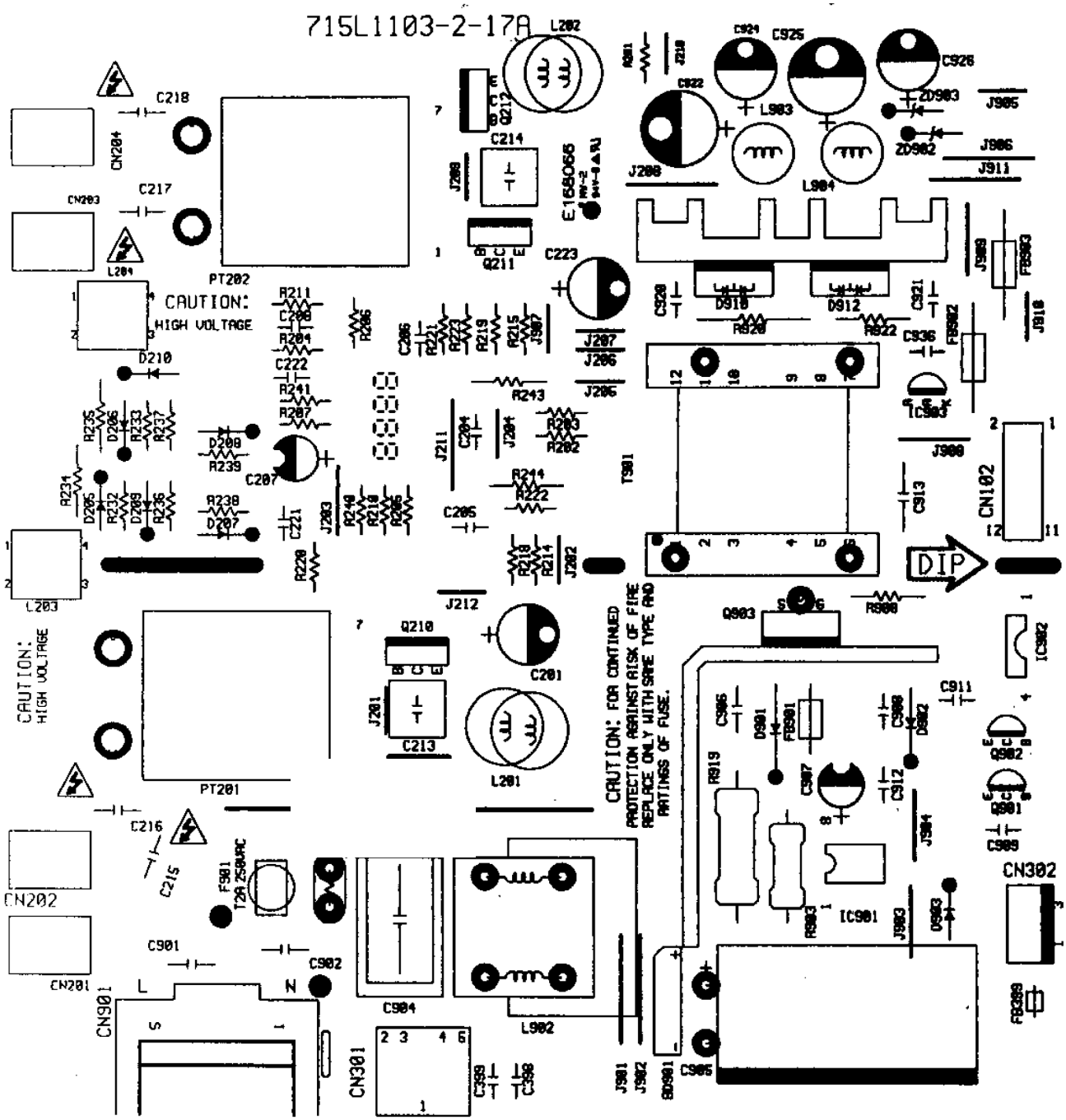
7.1 Main Board

715L1237-1-3



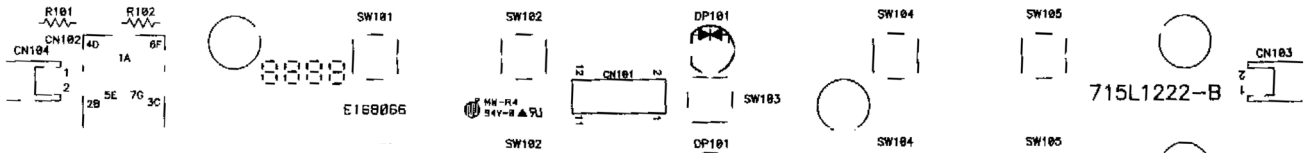
7.2 POWER BOARD

715L1103-217A



7.3 Key Board

715L1222-B



8. Maintainability

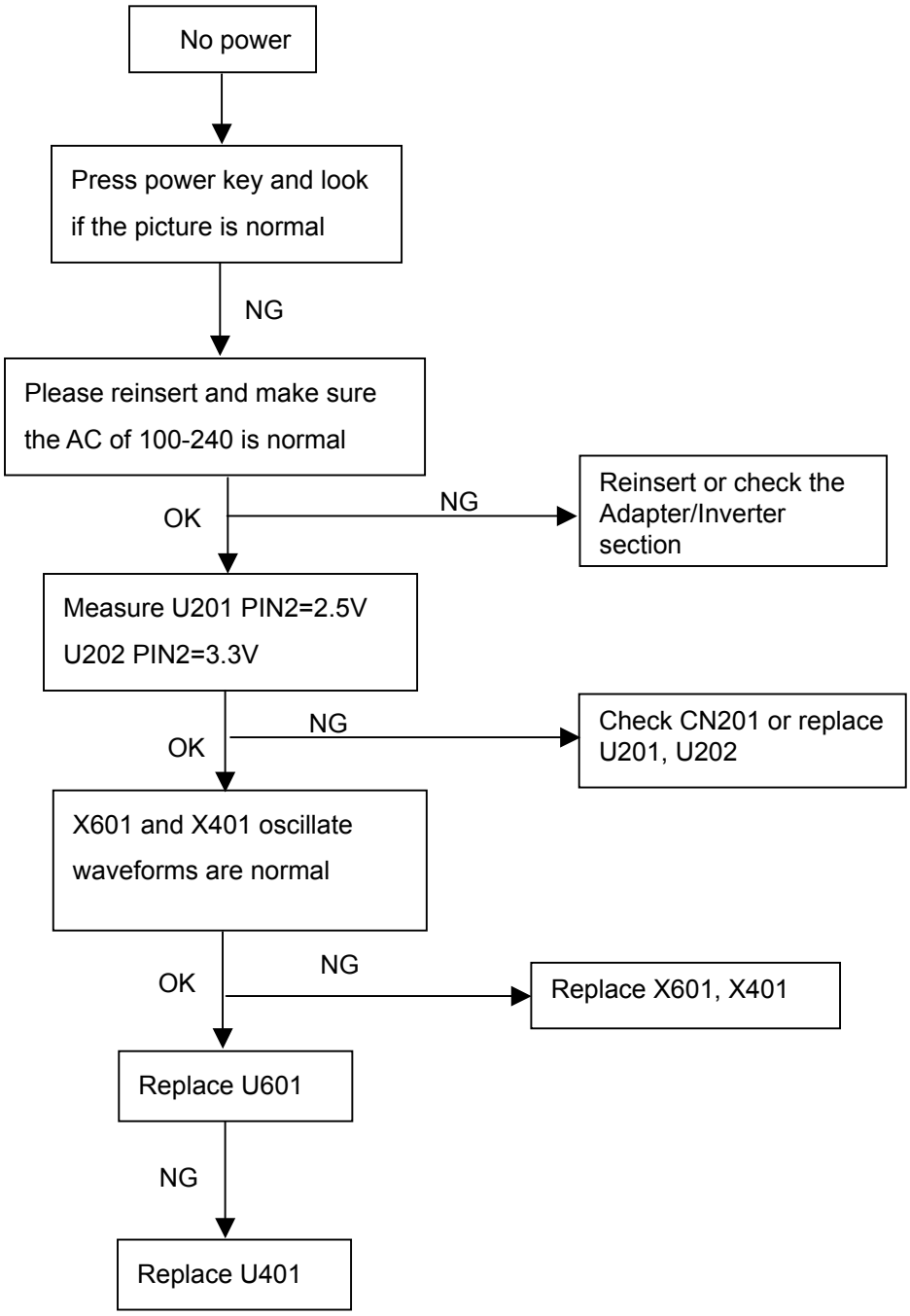
8.1 Equipments And Tools Requirement

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.

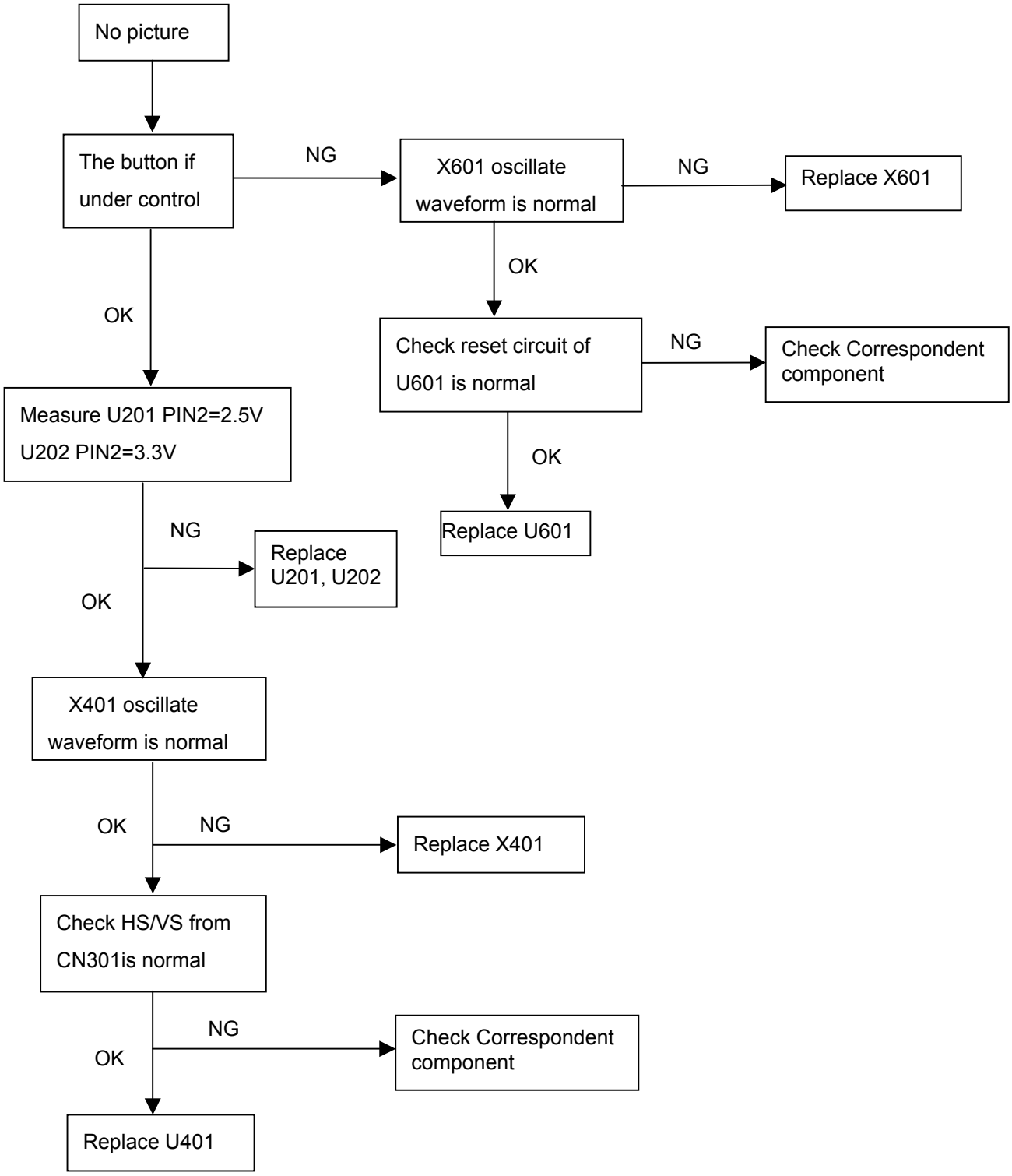
8.2 Trouble Shooting

8.2.1 Main Board

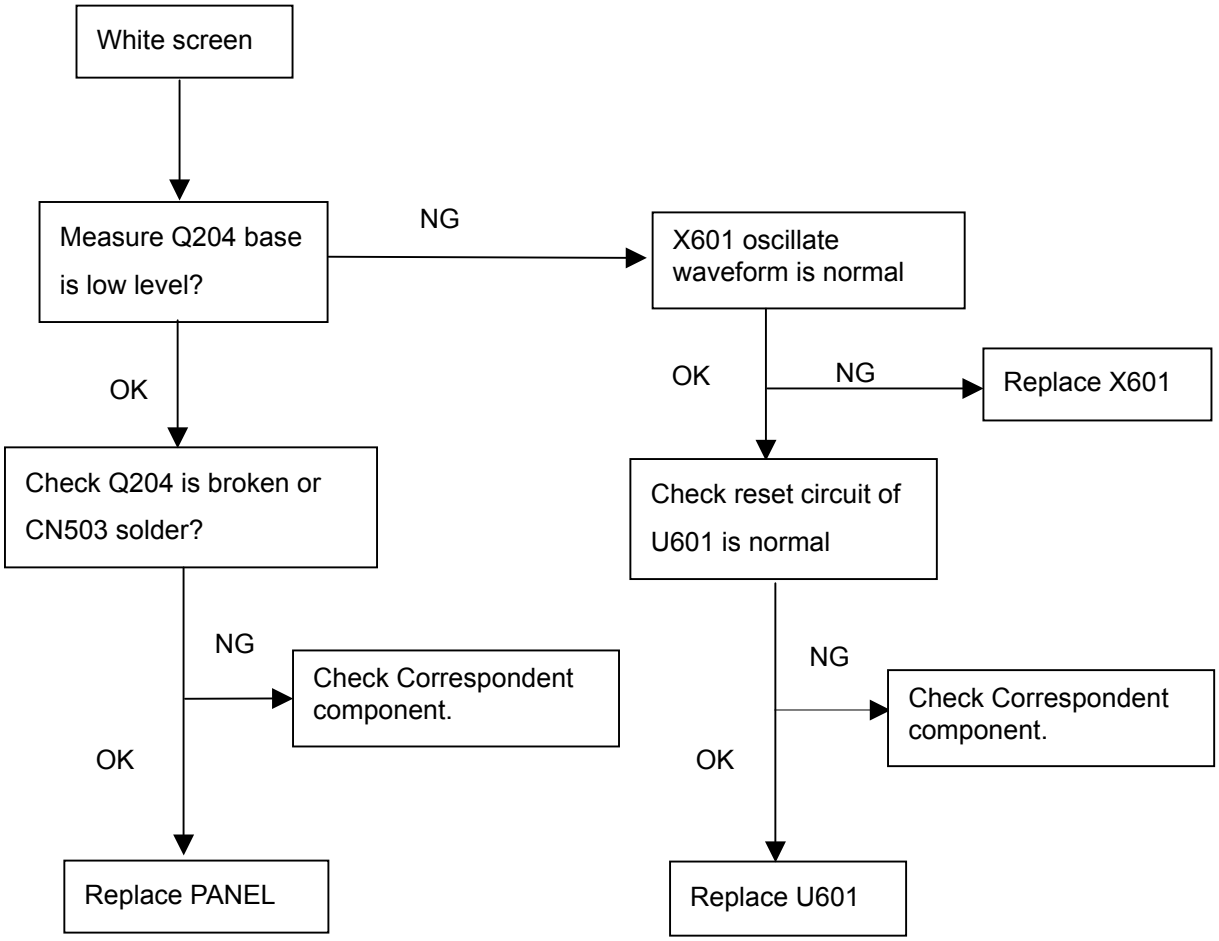
No power



No picture (LED orange)

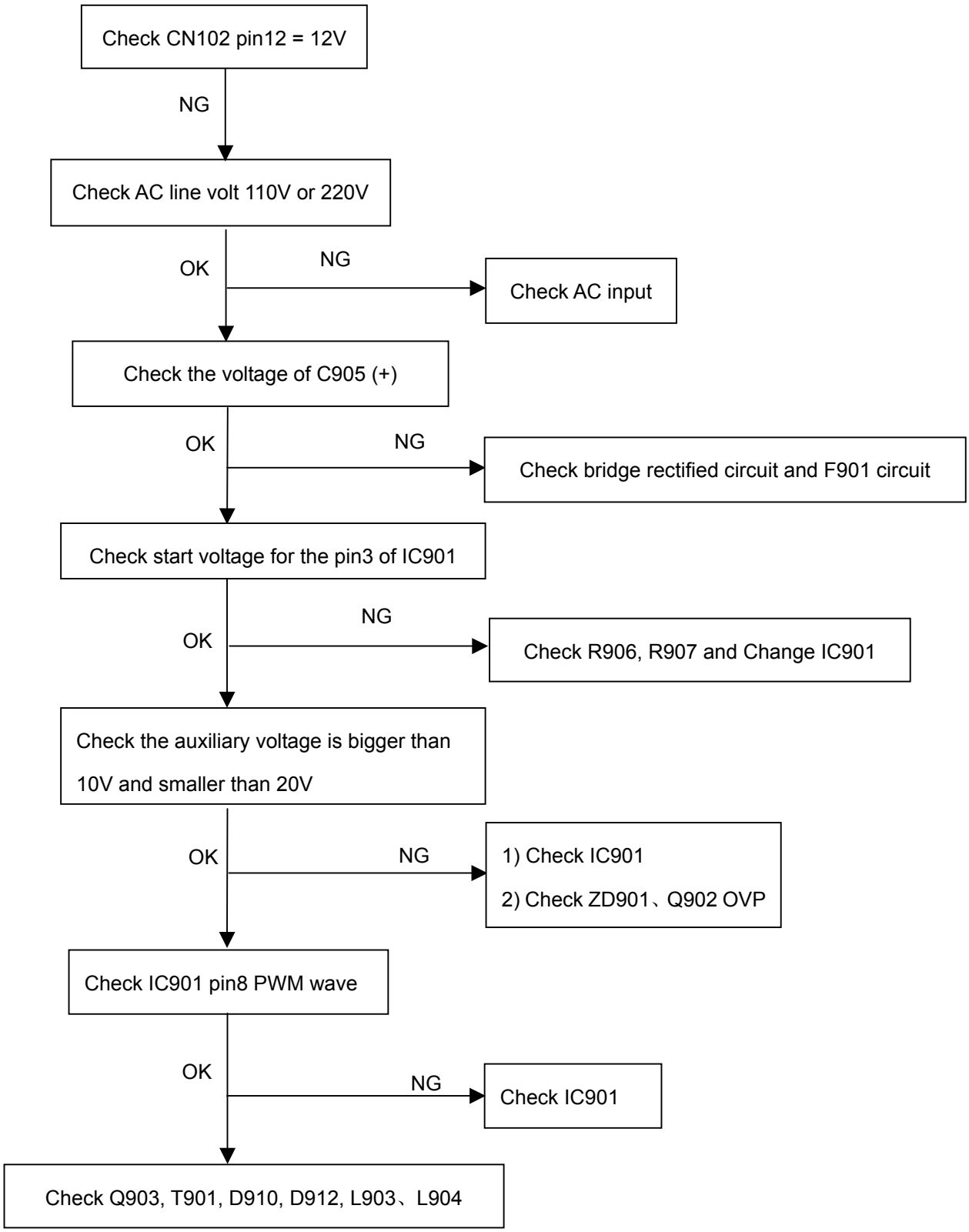


White screen

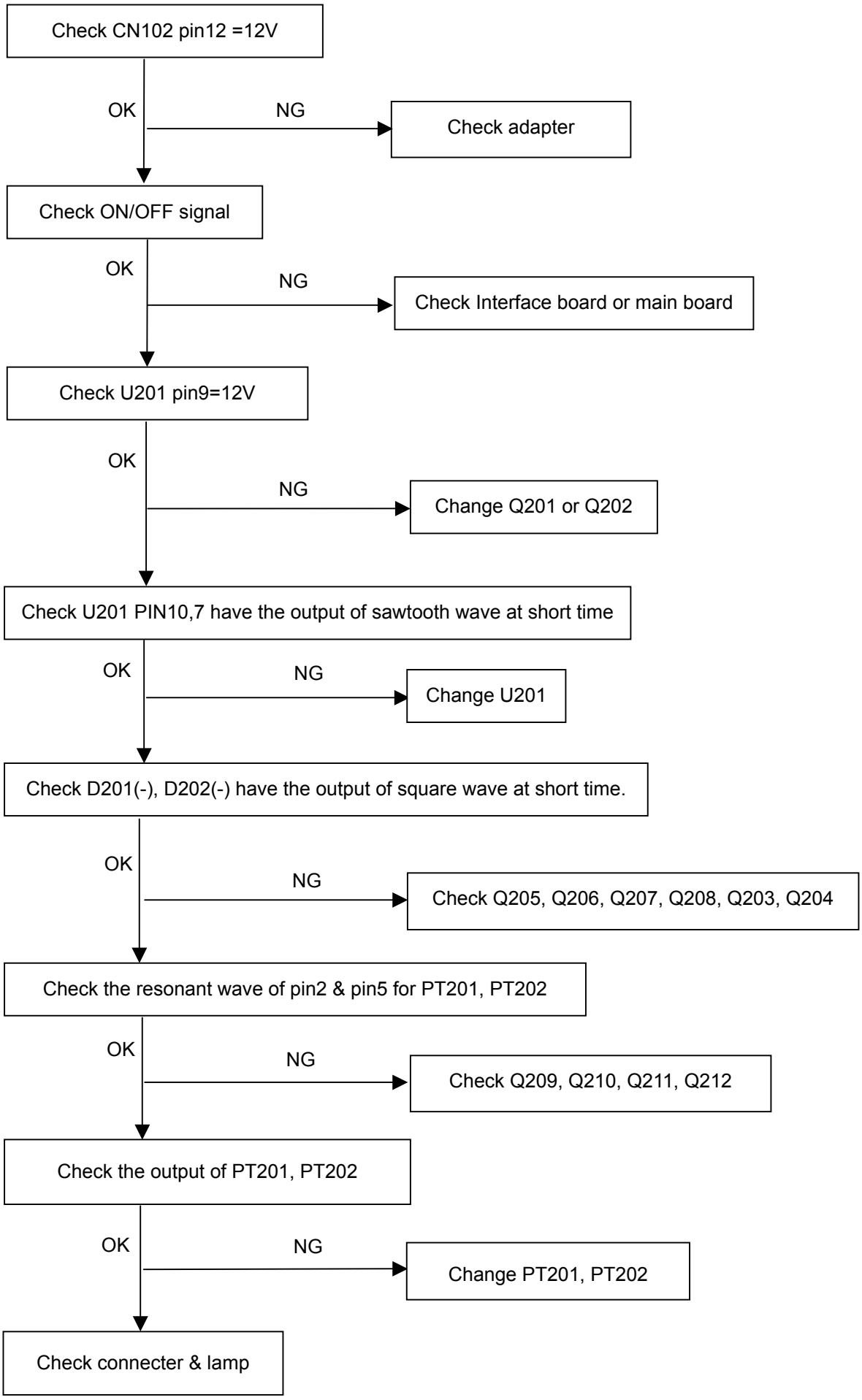


8.2.2 Power/Inverter Board

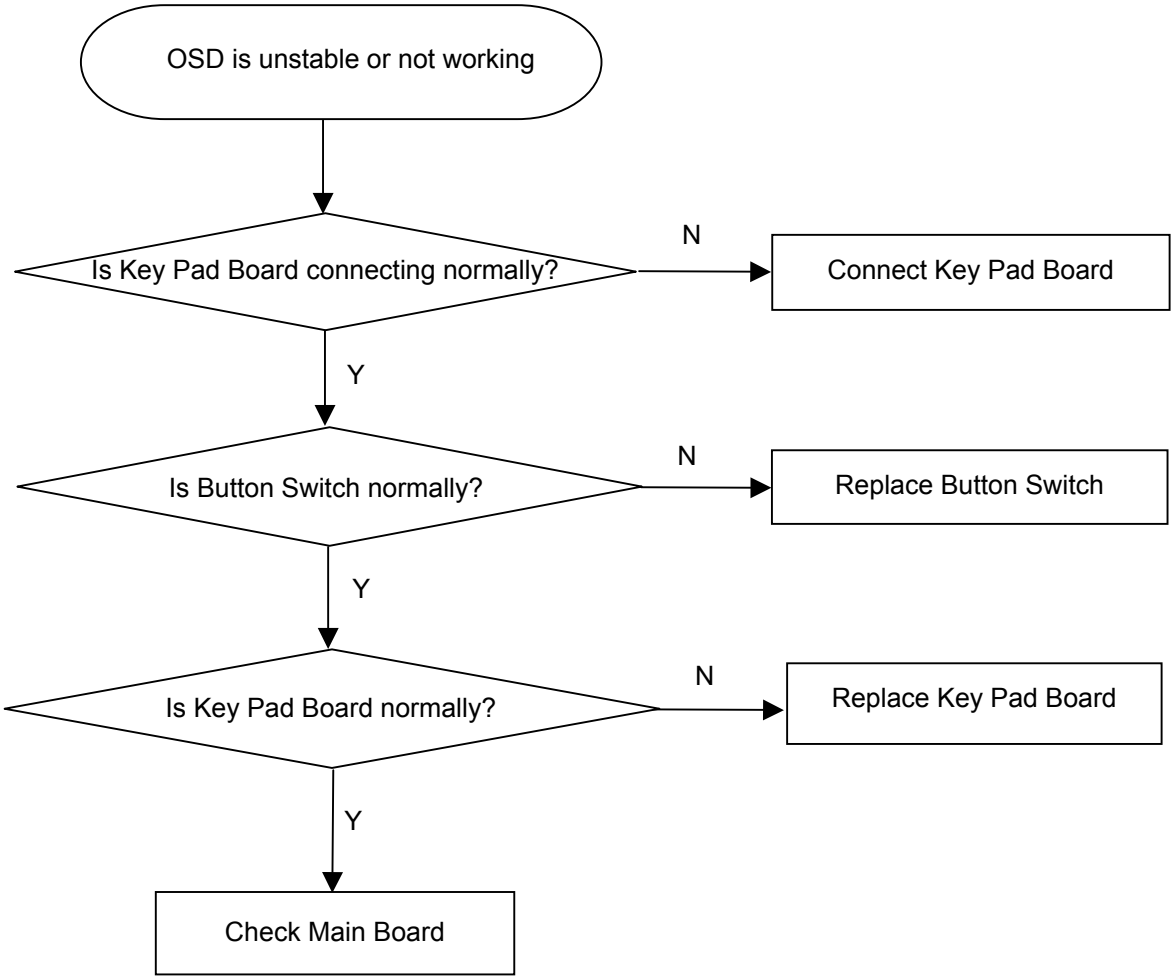
1) No power



2.) No Backlight



8.2.3 Keypad Board



9. 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 XyY 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 (7800 color):

   7800 color temp. parameter is x = 296 ± 20, y = 311 ± 20, Y = 180 cd/m^2 ,

   B. MEM.CHANNEL 4 (6500 color):

   6500 color temp. parameter is x = 313 ± 20, y = 329 ± 20, Y =180 cd/m^2

3. Into factory mode of AOC 171S (171S+)

   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. Bias adjustment:

   Set the **Contrast** to 50; Adjust the **Brightness** to 80.

5. Gain adjustment:

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

   A. Adjust 7800 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 = 296 ± 20, y = 311 ± 20, Y =180 cd/m^2
      4. Adjust the RED of color1 on factory window until chroma 7120 indicator reached the value R=100
      5. Adjust the GREEN of color1 on factory window until chroma 7120 indicator reached the value G=100
      6. Adjust the BLUE of color1 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 ± 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 ± 20, y = 329 ± 20, Y = 180 cd/m^2
      4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value R=100
      5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reachedthe value G=100
      6. Adjust the BLUE of color3 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 ± 2

   C. Turn the Power-button off to quit from factory mode.

10. EDID Content

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0:	00	FF	FF	FF	FF	FF	FF	00	05	E3	80	17	01	60	0D	00
16:	30	0F	01	03	68	22	1B	78	2A	38	8F	A3	58	46	9D	24
32:	17	4C	55	BF	EF	00	81	80	01	01	01	01	01	01	01	01
48:	01	01	01	01	01	01	30	2A	00	98	51	00	2A	40	30	70
64:	13	00	78	2D	11	00	00	1E	00	00	00	FF	00	32	33	31
80:	35	34	36	39	38	37	36	35	34	35	00	00	00	FD	00	37
96:	4B	1E	53	0E	00	0A	20	20	20	20	20	20	00	00	00	FC
112:	00	54	46	54	31	37	38	30	0A	20	20	20	20	20	00	41

11. BOM List

T780KC4MDAACM—171S

T780KV4MDAACM—171S+

Location	Part No. for TPV	Description	Quantity	Unit	Remark
	CBPC780KC4AC	CONVERSION BOARD	1	PCS	for 171S
	CBPC780KV4AL	CONVERSION BOARD	1	PCS	for 171S+
	KEPC780KAC	KEY BOARD	1	PCS	
	PWPC7425A3E27C	POWER BOARD	1	PCS	for 171S
	PWPC7425A3E14C	POWER BOARD	1	PCS	for 171S+
	15G5786 1	VRSA BRACKET	1	PCS	
	15G5908 2	BRACKET	1	PCS	
	15G6090 N 7	MAIN FRAME	1	PCS	
	26G 800504 3	BARCODE	1	PCS	
	34G1272 GM 9L	REAR COVER	1	PCS	
	40G 19061556B	ID LABEL	1	PCS	for 171S
	40G 17N61518A	ID LABEL	1	PCS	for 171S+
	40G 58162435A	LABEL	1	PCS	
	41G700N61580B	MANUAL	1	PCS	for 171S
	41G700A615A17	MANUAL	1	PCS	for 171S+
	41G780061585C	WARRANTY CARD	1	PCS	
	44G3739 1	EPS(L)	1	PCS	
	44G3739 2	EPS(R)	1	PCS	
	44G373961512B	CARTON	1	PCS	for 171S
	44G373961520A	CARTON	1	PCS	for 171S+
	45G 76 28 RN	PE BAG FO MANUAL/BASE	1	PCS	
	45G 88607	PE BAG FOR MONITOR	1	PCS	
	45G 88609 B	EPE COVER	1	PCS	
	45G 88618 33	OUT PE BAG	1	PCS	
	50G 600 2	HANDLE1	1	PCS	
	50G 600 3	HANDLE2	1	PCS	
	52G 1185	MIDDLE TAPE FOR CARTON	60	CM	
	52G 1186	SMALL TAPE	8	CM	
	52G6025 11784	MYLAR	1	PCS	
	85G6080 3	SHIELD	1	PCS	
	89G414A15N IS	POWER CORD	1	PCS	
	95G8014 16535	HARNESS 220MM 12P-16P	1	PCS	for 171S
	95G8014 16509	WIRE HARNESS	1	PCS	for 171S+
	95G8018 30657	WIRE HARNESS	1	PCS	for 171S+

	M1G 330 4128	SCREW M3X4	6	PCS	
	M1G 330 5 47	SCREW	2	PCS	
	M1G1130 6128	SCREW	8	PCS	for 171S
	M1G1730 6128	SCREW M3x6	8	PCS	for 171S+
	M1G1140 6128	SCREW 4X6	1	PCS	
	Q1G 330 8120	SCREW 3X8mm	2	PCS	
	Q1G 330 10 47	SCREW	1	PCS	
	Q1G 330 12 47	SCREW	2	PCS	
	705L782KB34141	BEZEL ASS'Y	1	PCS	for 171S
	705L780KB34159	BACK COVER ASS'Y	1	PCS	for 171S+
	AM1G1740 10 47	SCREW	4	PCS	
	T34G1300 GM L	BASE	1	PCS	
E089B	89G 715LAA D	SIGNAL CABLE	1	PCS	
E095	S95G801830630	LVDS ASS'Y	1	PCS	
E750L	750LLC70A07 1V	CPT 17"110 V PANEL	1	PCS	for 171S
	750LLD701TB11V	SVA 17" 1TB V PANEL	1	PCS	for 171S+
705L782KB34141 (for 171S)					
	33G4693 Q1 L	KEY PAD	1	PCS	
	33G4694 1 C	POWER LENS	1	PCS	
	33G4695 1 C	CLAMP	1	PCS	
	34G1271LQ1A1L	BEZEL	1	PCS	
	34G1273 GM L	STAND	1	PCS	
	37G 489 1	HINGE ASS'Y	1	PCS	
	Q1G1030 8128	SCREW	1	PCS	
	Q1G1030 10128	SCREW	2	PCS	
705L780KB34159 (for 171S+)					
	33G4693 Q1 L	KEY PAD	1	PCS	
	33G4694 1 C	POWER LENS	1	PCS	
	33G4695 1 C	CLAMP	1	PCS	
	34G1271RQ1A1L	FRONT PANEL	1	PCS	
	34G1273 GM L	STAND	1	PCS	
	37G 489 1	HINGE ASS'Y	1	PCS	
	Q1G1030 8128	SCREW	1	PCS	
	Q1G1030 10128	SCREW	2	PCS	
95G801830630 (for 171S)					
	33F 205 24	A2005H02-2*12P	1	PCS	
	33F 303 30TD1	TD00-30H P2407P30	1	PCS	
	33F205T 24	A2005T0B-00	24	PCS	

	33F303TTD1	TD00-T	24	PCS	
CBPC780KC4AC					
	AIC780KC4AC	MAIN BOARD	1	PCS	
	40G 45762412B	CBPC LABEL	1	PCS	
C204	67G215B221 4H	LOW E.S.R 220UF +-20% 2	1	PCS	
CN201	33G8027 12	WAFER 2*6P 2.0MM R/A	1	PCS	
CN301	88G 35315F H	D-SUB 15PIN	1	PCS	
CN503	33G801724A H	PIN HEADER 24P 2.0mm	1	PCS	
CN602	33G8027 16	WAFER 16PIN 2.0mm DIP	1	PCS	
X401	93G 22 53 J	14.31818MHZ/32PF/49US	1	PCS	
X601	93G 22 55 J	20MHz/20PF/49US	1	PCS	
	40G 457624 1B	LABEL-CPU	1	PCS	
	715L1237 1 3	MAIN BOARD	1	PCS	
C201	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C205	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C206	65G0805105 22	CHIP 1UF 25V X7R 0805	1	PCS	
C207	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C210	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C212	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C214	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C216	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C217	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C304	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS	
C305	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS	
C306	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS	
C307	65G0603102 32	1000PF +-10% 50V X7R	1	PCS	
C308	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS	
C309	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS	
C310	65G0603473 32	CHIP 0.047UF 50V X7R	1	PCS	
C311	65G0603330 31	CER1 0603 NP0 50V 33P P	1	PCS	
C312	65G0603221 31	CER1 0603 NP0 50V 220P	1	PCS	
C313	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C401	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C402	65G0603220 31	CER1 0603 NP0 50V 22P P	1	PCS	
C403	65G0603220 31	CER1 0603 NP0 50V 22P P	1	PCS	
C404	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C406	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C407	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	

C408	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C409	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C410	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C411	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C412	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C413	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C415	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C416	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C417	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C418	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C420	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C421	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C423	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C425	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C426	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C428	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C510	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C511	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C601	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
C602	65G0603220 31	CER1 0603 NP0 50V 22P P	1	PCS	
C604	65G0603220 31	CER1 0603 NP0 50V 22P P	1	PCS	
C605	65G0603224 17	CAP:CER 0.22UF-20%-80%	1	PCS	
C606	65G0603102 32	1000PF +-10% 50V X7R	1	PCS	
C607	65G0603102 32	1000PF +-10% 50V X7R	1	PCS	
C608	65G0603102 32	1000PF +-10% 50V X7R	1	PCS	
C609	65G0603102 32	1000PF +-10% 50V X7R	1	PCS	
C610	65G0603102 32	1000PF +-10% 50V X7R	1	PCS	
C618	65G0603104 32	CHIP 0.1UF 50V X7R	1	PCS	
D201	93G1004 3	SS14	1	PCS	
D202	93G1020 1 S	GS1D	1	PCS	
D301	93G 6433P	BAV99 SOT-23	1	PCS	
D302	93G 6433P	BAV99 SOT-23	1	PCS	
D303	93G 6433P	BAV99 SOT-23	1	PCS	
D304	93G 64 42 P	BAV70 SOT-23	1	PCS	
D317	93G 39147	TZMC5V6	1	PCS	
D318	93G 39147	TZMC5V6	1	PCS	
D319	93G 39147	TZMC5V6	1	PCS	
D320	93G 39147	TZMC5V6	1	PCS	

D321	93G 39147	TZMC5V6	1	PCS	
D322	93G 39147	TZMC5V6	1	PCS	
D323	93G 39147	TZMC5V6	1	PCS	
D601	93G 6432V	LL4148-GS08	1	PCS	
FB201	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS	
FB301	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS	
FB302	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS	
FB303	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS	
FB304	71G 56G151 A	TB160808G151	1	PCS	
FB401	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS	
FB402	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS	
FB403	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS	
FB404	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS	
FB405	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS	
FB406	71G 56Z601	CHIP BEAD 600 OHM 0805	1	PCS	
Q201	57G 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS	
Q202	57G 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS	
Q203	57G 763 1	A03401 SOT23 BY AOS(A1)	1	PCS	
Q204	57G 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS	
Q601	57G 417 6	PMBS3906/PHILIPS-SMT(06	1	PCS	
Q602	57G 417 6	PMBS3906/PHILIPS-SMT(06	1	PCS	
R201	61L0603472	RST SM 0603 RC0603 4K7	1	PCS	
R202	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R203	61L0603102	RST SM 0603 RC0603 1K P	1	PCS	
R204	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R205	61L0603472	RST SM 0603 RC0603 4K7	1	PCS	
R206	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R207	61L0603472	RST SM 0603 RC0603 4K7	1	PCS	
R208	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R209	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS	
R211	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R212	61L0603472	RST SM 0603 RC0603 4K7	1	PCS	
R215	61L0603104	RST SM 0603 RC0603 100K	1	PCS	
R301	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R302	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R303	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R304	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS	
R305	61L0603101	RST SM 0603 RC0603 100R	1	PCS	

R306	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R307	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R308	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R309	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R310	61L0603102	RST SM 0603 RC0603 1K P	1	PCS	
R311	61L0603102	RST SM 0603 RC0603 1K P	1	PCS	
R312	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R313	61L0603222	RST SM 0603 RC0603 2K2	1	PCS	
R314	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R315	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R316	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R317	61L0603472	RST SM 0603 RC0603 4K7	1	PCS	
R318	61L0603472	RST SM 0603 RC0603 4K7	1	PCS	
R325	61L0603750	RST SM 0603 RC22H 75R P	1	PCS	
R326	61L0603750	RST SM 0603 RC22H 75R P	1	PCS	
R327	61L0603750	RST SM 0603 RC22H 75R P	1	PCS	
R402	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R403	61L0603390 0F	CHIP 390 OHM 1/10W 1%	1	PCS	
R404	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R405	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R406	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R407	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R502	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS	
R601	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R602	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R604	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R605	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R606	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R607	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R608	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R609	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R613	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R614	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R615	61L0603103	RST SM 0603 RC0603 10K	1	PCS	
R616	61L0603472	RST SM 0603 RC0603 4K7	1	PCS	
R617	61L0603121	CHIPR 120 OHM 1/10W	1	PCS	
R618	61L0603121	CHIPR 120 OHM 1/10W	1	PCS	
R619	61L0603472	RST SM 0603 RC0603 4K7	1	PCS	

R620	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS	
R621	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS	
R622	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS	
R623	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS	
R624	61L0603102	RST SM 0603 RC0603 1K P	1	PCS	
R634	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R635	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R636	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
R639	61L0603101	RST SM 0603 RC0603 100R	1	PCS	
RN601	61L 125472 8	CHIP AR 8P4R 4.7K OHM+-	1	PCS	
RN602	61L 125472 8	CHIP AR 8P4R 4.7K OHM+-	1	PCS	
U201	56G 563 31	AI1117D-1.8-EI	1	PCS	
U202	56G 563 7	AIC1084-33PM	1	PCS	
U301	56G1133 34	M24C02-WMN6TP	1	PCS	
U401	56G 562 86	TSU16AK-LF	1	PCS	
U601	56G1125137CE9	W78E65P-40	1	PCS	
U602	56G113356A	24LC16B/SNG SOIC-8PIN	1	PCS	
U603	56G 643 9	EM6353BZ2SP38-2.9+	1	PCS	
KEPC780KAC					
	715L1222 B	PCB	1	PCS	
CN101	33G801712A H	PIN HEADER 2*6 R/A	1	PCS	
DP101	81G 12 1 GP	GP32032ME	1	PCS	
SW101	77G 600 1GCJ	TACT SWITCH TSPB-2-NP	1	PCS	
SW102	77G 600 1GCJ	TACT SWITCH TSPB-2-NP	1	PCS	
SW103	77G 600 1GCJ	TACT SWITCH TSPB-2-NP	1	PCS	
SW104	77G 600 1GCJ	TACT SWITCH TSPB-2-NP	1	PCS	
SW105	77G 600 1GCJ	TACT SWITCH TSPB-2-NP	1	PCS	
PWPC7425A3E27C					
	PW7425A3E27SMT	POWER BORD	1	PCS	
	40G 45762412B	CBPC LABEL	1.03	PCS	
	705L 780 57 02	CN901 ASS'Y	1	PCS	
	705L 780 57 18	D910/D912 ASS'Y	1	PCS	
	705L 780 5702A	Q903 ASS'Y	1	PCS	
BD901	93G 50460502	KBP206G	1	PCS	
C215	65G 3J2206ET	22PF 5% SL 3KV TDK	1	PCS	
C216	65G 3J2206ET	22PF 5% SL 3KV TDK	1	PCS	
C217	65G 3J2206ET	22PF 5% SL 3KV TDK	1	PCS	
C218	65G 3J2206ET	22PF 5% SL 3KV TDK	1	PCS	

C901	65L305M2222E3	2200PF+-20%400VAC BY TD	1	PCS	
C902	65L305M2222E3	2200PF+-20%400VAC BY TD	1	PCS	
C904	63G 107474 HS	0.47UF +-20% 275VAC	1	PCS	
C905	67G305S10115K	100UF +-20% 450V	1	PCS	
C906	65G 2K152 5E6921	1500 PF 10% 2KV Y5P	1	PCS	
C913	65G306M4722BP	4700PF +-20% 400VAC	1	PCS	
C922	67G215S102 3K	ED1000UF 16V	1	PCS	
C925	67G215S102 3K	ED1000UF 16V	1	PCS	
CN102	95G8021 12520	WIRE HARNESS	1	PCS	
CN201	33G8021 2D U	3.5mm WAFER	1	PCS	
CN202	33G8021 2D U	3.5mm WAFER	1	PCS	
CN203	33G8021 2D U	3.5mm WAFER	1	PCS	
CN204	33G8021 2D U	3.5mm WAFER	1	PCS	
H1	85G6113 1	SHIELD	1	PCS	
IC901	56G 379 32	SG6841DZ DIP-8	1	PCS	
IC902	56G 139 3A	PC123Y22FZOF	1	PCS	
L201	73G 253515 S	CHOLE	1	PCS	
L202	73G 253515 S	CHOLE	1	PCS	
L903	73G 253 91 H	CHOKE COIL	1	PCS	
L904	73G 253 91 H	CHOKE COIL	1	PCS	
NR901	61G 58080 WT	8 OHM NCT	1	PCS	
Q209	57G 761 6	2SC5706-P-E	1	PCS	
Q210	57G 761 6	2SC5706-P-E	1	PCS	
Q211	57G 761 6	2SC5706-P-E	1	PCS	
Q212	57G 761 6	2SC5706-P-E	1	PCS	
R903	61G152M104 64	100KOHM 5% 2W	1	PCS	
R919	61G 2J398 59	0.39 OHM 2W	1	PCS	
T901	80LL17T 2 NG	TRANSFORMER	1	PCS	
	PW7425A3E27AI	POWER BOARD FOR AI	1	PCS	
C203	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS	
C209	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS	
C210	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS	
C211	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS	
C212	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS	
C219	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS	
C220	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS	
C224	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS	
C225	65G0805105 27	CHIP 1UF Y5V 0805	1	PCS	

C910	65G0805104 32	CHIP 0.1U 50V X7R	1	PCS	
C927	65G0805104 32	CHIP 0.1U 50V X7R	1	PCS	
D201	93G2004 3	SSM24PT	1	PCS	
D202	93G2004 3	SSM24PT	1	PCS	
D203	93G 39S 3 T	BZT52-C11	1	PCS	
D204	93G 39S 3 T	BZT52-C11	1	PCS	
Q201	57G 760 5A	DTC 144WN3/S SOT-23	1	PCS	
Q202	57G 760 4A	DTA144WN3/S SOT-23	1	PCS	
Q203	57G 763 3B	AM9435P.T1-PF SO-8	1	PCS	
Q204	57G 763 3B	AM9435P.T1-PF SO-8	1	PCS	
Q205	57G 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS	
Q206	57G 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS	
Q207	57G 417 6	PMBS3906/PHILIPS-SMT(06	1	PCS	
Q208	57G 417 6	PMBS3906/PHILIPS-SMT(06	1	PCS	
R208	61L0805472	CHIRP 4.7K OHM +-5% 1/8	1	PCS	
R209	61L0805472	CHIRP 4.7K OHM +-5% 1/8	1	PCS	
R212	61L0603392	CHIP 3.9K OHM 1/10W	1	PCS	
R213	61L0603392	CHIP 3.9K OHM 1/10W	1	PCS	
R216	61L0603221	RST SM 0603 RC0603 220R	1	PCS	
R217	61L0603221	RST SM 0603 RC0603 220R	1	PCS	
R224	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS	
R225	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS	
R226	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS	
R227	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS	
R228	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS	
R229	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS	
R230	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS	
R231	61L1206152	CHIPR 1.5K OHM+-5%1/4W	1	PCS	
R901	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS	
R902	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS	
R904	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS	
R905	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS	
R906	61L1206754	CHIP 750KOHM 5% 1/4W	1	PCS	
R907	61L1206754	CHIP 750KOHM 5% 1/4W	1	PCS	
R909	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS	
R910	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS	
R911	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS	
R912	61L1206101	CHIP 100 OHM 5% 1/4W	1	PCS	

R915	61L1206103	CHIP 10KOHM 5% 1/4W	1	PCS	
R916	61L1206240 2F	CHIP 24KOHM1% 1/4W	1	PCS	
R917	61L1206100	CHIPR 10 OHM+-5% 1/4W	1	PCS	
R918	61L1206103	CHIP 10KOHM 5% 1/4W	1	PCS	
R924	61L0805333	CHIP 33KOHM 1% 1/8W	1	PCS	
R925	61L0603362	CHIP 3.6K OHM 1/10W	1	PCS	
R926	61L0805242	CHIP 2.4KOHM 1% 1/8W	1	PCS	
R927	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS	
R928	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS	
R929	61L0603000	RST SM 0603 JUMP MAX 0R	1	PCS	
R930	61L1206101	CHIP 100 OHM 5% 1/4W	1	PCS	
R931	61L0603102	RST SM 0603 RC0603 1K P	1	PCS	
U201	56G 622 1	BA9741F-SMT	1	PCS	
ZD901	93G 39S 20 T	RLZ22B LLDS	1	PCS	
ZD904	93G 39S 19 T	PTZ7.5B	1	PCS	
	715L1103 217A	PCB	1	PCS	
C201	67G215C1514HT	LOW ESR 150UF 25V 8*7MM	1	PCS	
C204	64G700J1040AT	0.1UF 50V PEN	1	PCS	
C205	64G700J1040AT	0.1UF 50V PEN	1	PCS	
C206	64G700J1040AT	0.1UF 50V PEN	1	PCS	
C207	67G 305479 7T	4.7UF 20% 50V 105	1	PCS	
C208	65G 44233113T	330PJNPO 50V	1	PCS	
C221	64G701J4740AT	0.47uF 50V	1	PCS	
C222	64G701J4740AT	0.47uF 50V	1	PCS	
C223	67G215C1514HT	LOW ESR 150UF 25V 8*7MM	1	PCS	
C905	6G 31502	1.5MM RIVET	2	PCS	
C908	65G 450104 7T	0.1UF +80-20% 50V Y5V	1	PCS	
C909	64G700J1040AT	0.1UF 50V PEN	1	PCS	
C911	64G700J1020AT	1000PF 50V PEN	1	PCS	
C920	65L517K102 5T6213	1000PF 10% Y5P 500V	1	PCS	
C921	65L517K102 5T6213	1000PF 10% Y5P 500V	1	PCS	
C924	67G215B4713HT	470UF 16V LTR471M1CF11V	1	PCS	
C926	67G215B4713HT	470UF 16V LTR471M1CF11V	1	PCS	
C936	64G700J1040AT	0.1UF 50V PEN	1	PCS	
D205	93G 64 1152T	1N4148	1	PCS	
D206	93G 64 1152T	1N4148	1	PCS	
D207	93G 64 1152T	1N4148	1	PCS	
D208	93G 64 1152T	1N4148	1	PCS	

D209	93G 64 1152T	1N4148	1	PCS	
D210	93G 64 1152T	1N4148	1	PCS	
D901	93G 6026T52T	RECTIFIER DIODE FR107	1	PCS	
D902	93G 6038T52T	FR103	1	PCS	
D903	93G 64 1152T	1N4148	1	PCS	
F901	84G 56 1	FUSE 2A 250V WICKMANN	1	PCS	
FB901	71G 55 29	FERRITE BEAD	1	PCS	
FB902	71G 55 19 T	FERRITE BEAD D9X3. 5X0.	1	PCS	
IC903	56G 158 4 T	H431BA	1	PCS	
L902	6G 31502	1.5MM RIVET	4	PCS	
NR901	6G 31502	1.5MM RIVET	2	PCS	
PT201	6G 31502	1.5MM RIVET	2	PCS	
PT202	6G 31502	1.5MM RIVET	2	PCS	
Q901	57G 420 PP T	2PA733P	1	PCS	
Q902	57G 419 PP T	2PC945P	1	PCS	
Q903	6G 31502	1.5MM RIVET	1	PCS	
R201	61G 60230352T	30KOHM 5% 1/6W	1	PCS	
R202	61G 60210352T	CFR 10KOHM +-5% 1/6W	1	PCS	
R203	61G 60210352T	CFR 10KOHM +-5% 1/6W	1	PCS	
R204	61G 60210352T	CFR 10KOHM +-5% 1/6W	1	PCS	
R205	61G 60247352T	47KOHM 5% 1/6W	1	PCS	
R206	61G 60247352T	47KOHM 5% 1/6W	1	PCS	
R210	61G 60215352T	15KOHM 5% 1/6W	1	PCS	
R211	61G 60215352T	15KOHM 5% 1/6W	1	PCS	
R214	61G 60222252T	2.2K 5% 1/6W	1	PCS	
R215	61G 60222252T	2.2K 5% 1/6W	1	PCS	
R218	61G 60210152T	100OHM +- 5% 1/6W	1	PCS	
R219	61G 60210152T	100OHM +- 5% 1/6W	1	PCS	
R220	61G 60215352T	15KOHM 5% 1/6W	1	PCS	
R221	61G 60215352T	15KOHM 5% 1/6W	1	PCS	
R222	61G 60212352T	12KOHM 5% 1/6W	1	PCS	
R223	61G 60212352T	12KOHM 5% 1/6W	1	PCS	
R232	61G 60210252T	CFR 1K OHM +-5% 1/6W	1	PCS	
R233	61G 60210252T	CFR 1K OHM +-5% 1/6W	1	PCS	
R234	61G 60291152T	CFR 910 OHM+-5% 1/6W	1	PCS	
R235	61G 60291152T	CFR 910 OHM+-5% 1/6W	1	PCS	
R236	61G 60251152T	510 OHM 5% 1/6W	1	PCS	
R237	61G 60251152T	510 OHM 5% 1/6W	1	PCS	

R238	61G 60212352T	12KOHM 5% 1/6W	1	PCS	
R239	61G 60212352T	12KOHM 5% 1/6W	1	PCS	
R240	61G 60251352T	51KOHM +-5% 1/6W	1	PCS	
R241	61G 60251352T	51KOHM +-5% 1/6W	1	PCS	
R243	61G 17210252T	1K OHM 5% 1/4W	1	PCS	
R244	61G 17210252T	1K OHM 5% 1/4W	1	PCS	
R908	61G 17268952T	6.8OHM 5% 1/4W	1	PCS	
R920	61G 20747052T	47 OHM 1/2W	1	PCS	
R922	61G 20747052T	47 OHM 1/2W	1	PCS	
T901	6G 31502	1.5MM RIVET	4	PCS	
ZD902	93G 39 5452T	HZ12B2-E	1	PCS	
ZD903	93G 39 7752T	HZ5C1-E	1	PCS	
	95G205S354022	HARNESS	1	PCS	
	96G 29 6	SHRINK TUBE UL/CSA	20	MM	
CN901	87G 501 12 CJ	AC SOCKET	1	PCS	
	90G6064 1	HEAT SINK	1	PCS	
	M1G1730 8128	SCREW M3x8	2	PCS	
D910	93G 60239	FME-210B T0-220	1	PCS	
D912	93G 60250	FCH10U10	1	PCS	
	90G 407 2	HEAT SINK	1	PCS	
	M1G1730 8128	SCREW M3x8	1	PCS	
Q903	57G 724 4A	STP9NK60ZEP	1	PCS	