

Acer AT1921 / 22

Service Guide

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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen
Note	Gives bits and pieces of additional information related to the current topic.
Warning	Alerts you to any damage that might result from doing or not doing specific actions.
Caution	Gives precautionary measures to avoid possible hardware or software problems.
Important	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. this Service Guide provides you with all technical information relating to the BASICCONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. please not WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide, for ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and Service of customer machines.

WARNING: (FOR FCC CERTIFIED MODELS)

NOTE: this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, Which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.

As an ENERGY STAR® Partner our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

WARNING:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, Swimming pool or in a wet basement.
- Do not place the monitor on an unstable trolley, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a trolley or stand recommended by the manufacture or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacture and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet area provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 3.5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter (output 12V DC) which have UL,CSA listed license

SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness in the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

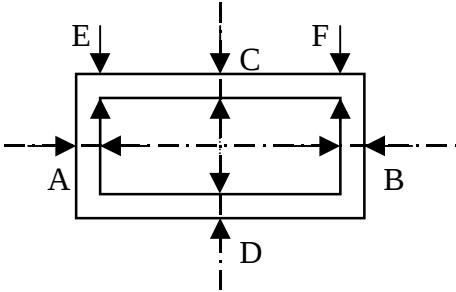
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Chapter 1

LCD TV Feature

TV System	Destination	Europe
	Color System	CCIR B/G, D/K, I and L/L'
	Sound System	Sound 1 and Sound 2
	Stereo System	NICAM and FM Stereo (A2)
	Channel System	Full frequency range from channel E2 (48.25 MHz) to channel E69 (855.25 MHz)
	Sub-Title	Teletext 100 pages
	RF-AFT	(+ / - 1.5MHz)
LCD Panel	Maximum Resolution	1440*900
	Panel Supplier	AUO: M190PW01_V0
	Lamp Quantity	CCFL*4
	Display Area	19" Wide Diagonal
	Display Color	16.7 M colors (RGB 6 bits+HiFRC)
	Contrast Ratio	800:1 (Typical)600:1(Min)
	Brightness	300 cd / m*2 (Typical)
	Response Time	5 ms(Typ)
	View Angle	80°(L)/80°(R), 80°(U)/80°(D)
I / O Functions	HDMI	For Audio & Video
	RCA Jack *3	For Audio & Video
	Din Jack	For S-Video
	SCART*1	21 Pin for Video ,S-Video & RGB
	PH Jack	For TV Input (PAL system)
	Earphone Jack	For Audio Output
	SPDIF	For Audio output (I2S)
	3.5mm Stereo Jack	For PC Stereo Audio Input , Black color
	D-Sub-15	For VGA
Video Functions	Support PAL / NTSC / SECAM video format	
	Support 480 i , 480 p,720P,1080i format	
	Build in motion adaptive 3D digital Comb Filter	
	Build in Teletext Functions	

Input Signal	TV System	PAL and SECAM system Receivable
	Tuner	FQ1216-MK5
	VGA	Horizontal input frequency range : 30~71 KHz
		Vertical input frequency range : 50~85 Hz
		Maximum resolution : 1440*900
	Out of Range	When input signal is out of range or down scaling support ,the OSD will show "Out of Range "within 5 seconds and LED is green
	No Signal	When there is missing signal from selected input ,the OSD will show "No Signal "within 8 seconds and LED is green
Color Temperature	Standard	x=300 , y=310, Y>250cd / m*2(center)
	Warm	x=317 , y=327, Y>250cd / m*2(center)
	Cold	x=285 , y=293, Y>220cd / m*2(center)
Remote Controller	Key count	43 Keys
	Effective Distance	More than 5 m +45~-45degree
	Supplier	Panasonic
Local Control Key	7 Keys	Power, Left, Right, Up, Down, Menu, Select
Display Area & Tilt	Display Area:	19W inches diagonal
	H-Phase:	A-B Less than 1.5mm
	V-Center:	C-D Less than 1.5mm
	Tilt:	E-F Less than 1mm
		
Audio	Speaker	Internal speaker. 5W*2 stereo, volume adjustable.
	Treble, Bass	(+ 6db)
	Frequency Response	100~15KHz with +/-3 db variation

	THD(Total Harmonic D distortion)	Limited to 5 % at 2W (at 0.1~15 KHz)
OSD Capability	On screen display adjustment function	
ISP Functions	ISP (In System Programming) function available for revising driver easily.	
Power Source	Input Voltage	90 ~ 264 V , 47 ~ 63 Hz
	Input Current	0.6~1.5 A
	Max. Power	58 Watts(not support Energy Star max power SPEC)
	PC saving Power	2Watts Max
	Stand-By Power(AV,TV)	1 Watts Max.
Mechanical	VESA Mount	100*100 mm

Input & Output Signal Specification

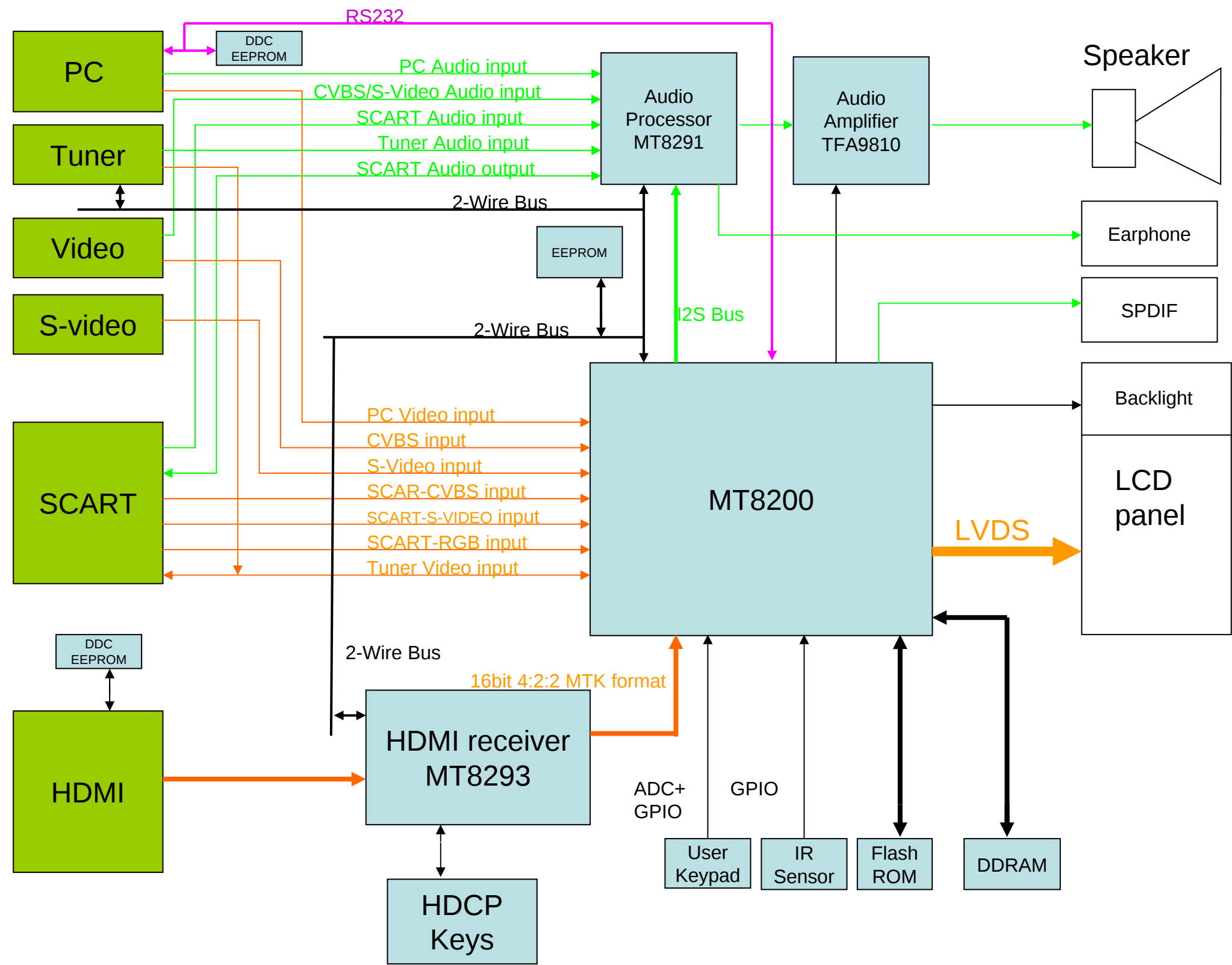
CVBS Input	Type	Analog
	Polarity	Positive
	Level	1Vp-p (with Sync.)
	Impedance	75Ω± 5%
	Interface	RCA jack, Yellow color
S-Video Input	Type	Analog
	Polarity	Positive
	Level	Y : 1Vp-p (with Sync.) , C : 0.286Vp-p
	Impedance	75Ω± 5%
	Interface	DIN Jack
SCART Input	Type	Analog
	Polarity	Positive
	Impedance	75Ω± 5%
	Interface	21 Pin Euro-SCART
Audio Input	Type	Stereo R/L Channels
	Level	500mVrms
	Impedance	More than 22kΩ
	Interface	RCA Jack
	Right channel	Red color.
	Left Channel	White color
PC Stereo Input	Type	Stereo R/L Channels
	Level	1Vrms

	Impedance	More than 22kΩ
	Interface	3.5mm Stereo Jack , Black color
Headphone Output	Type	Stereo R/L Channels
	Level	40mW rms/per Channel(typ.) for 32 ohm earphone
	Impedance	32 ohm
	Interface	3.5mm Stereo Jack
Built-in Speaker	Max. Audio output	5W + 5W (at 1.0Vp-p / 1kHz input,10% THD max.)
	Sound Distortion	1% THD max. (at 250mW/1kHz :)
	Speaker	5 W / 8 ohms
	Speaker Impedance	8 ohms at 1kHz
	Residual Hum	500uW Max.(at Min. Volume :)
	Max. Hum	1000uW Max (at Max. Volume)
Audio Line Output	Type	Stereo R/L Channels
	Level	400Vrms.
	Interface	3.5mm Stereo Jack
RF Input	Input Impedance	75 ohms
	Frequency Range	48.25~855.25 MHz (PAL)
	Video S/N Ratio	45 d B (Typical)
	Audio S/N Ratio	63 d B (Typical)
VGA Input	Sync	Level : Low = 0 to 0.8V, High = 2.0 to 5 V
		Polarity : Positive or Negative
		Impedance : 1 k ohm or higher
	RGB Signal	Level : 0 to 700mV Positive
		Impedance : 75Ω± 5%
D-Sub Pin Define	1	Red Video
	2	Green Video
	3	Blue Video
	4	Ground
	5	Ground
	6	Red Ground
	7	Green Ground
	8	Blue Ground
	9	+5V (PC97)
	10	VGA-CONN(Sync GND)
	11	Ground
	12	SDA (DDC Data)
	13	Horizontal Sync
	14	Vertical Sync
	15	SCL (DDC Clock)

PC Timing Mode

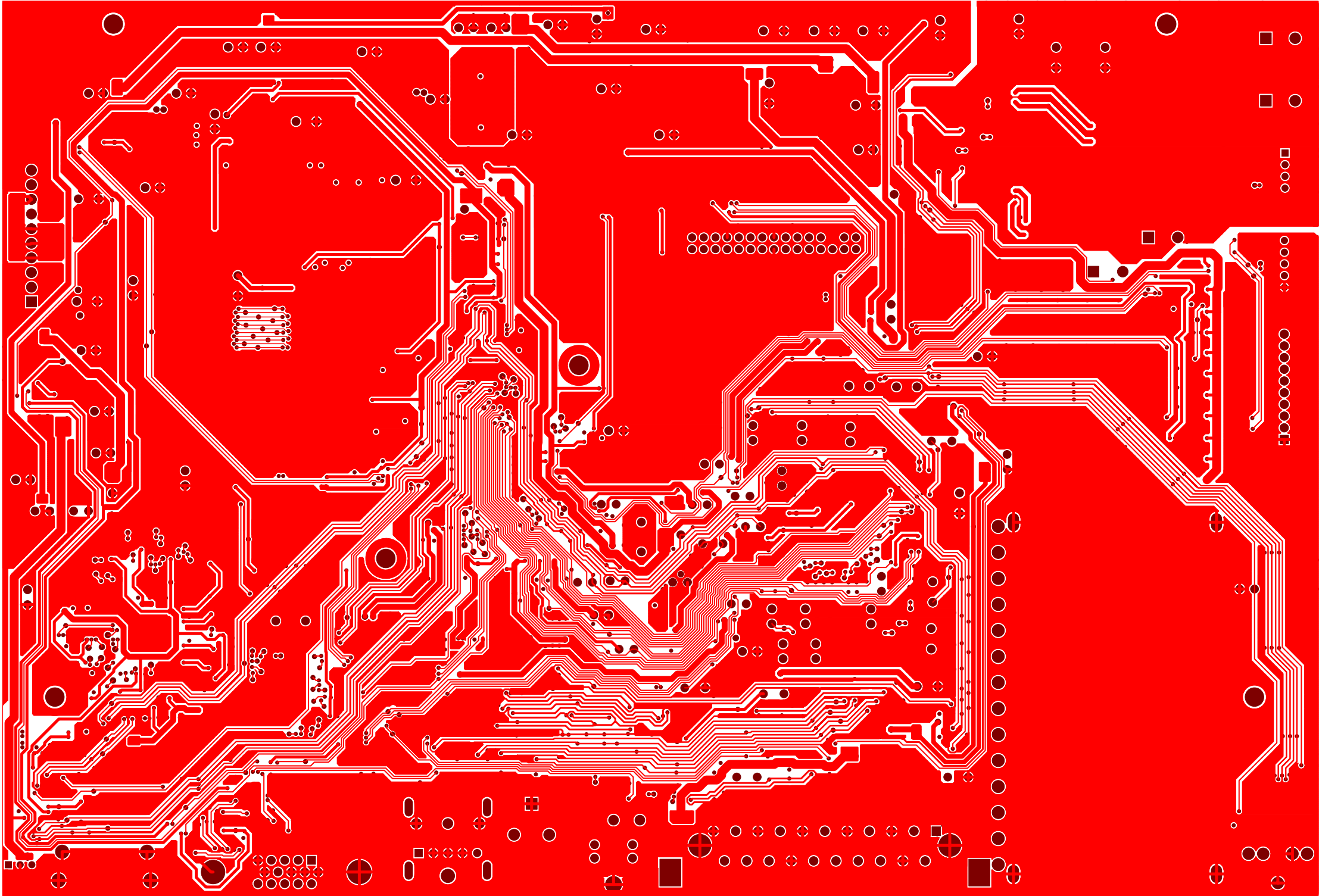
	Pixel	Hor. Freq.	Hor.	Vert. Freq.	Vertical	Standard	Format
	Format	(kHz)	Polarity	(Hz)	Polarity		
1	640*350	31.5		70		VGA	
2	720*400	31.47	-	70	+	VGA	
3	640*480	31.47	-	60	-	VGA	
4	640*480	35		66.7		MAC	
5	640*480	37.861	-	72	-	VESA	
6	640*480	37.5	-	75	-	VESA	
7	640*480	43.3	-	85	-	VESA	
8	800*600	35.156	-	56	+	VESA	
9	800*600	37.879	+	60	+	VESA	
10	800*600	48.077	+	72	+	VESA	
11	800*600	46.875	+	75	+	VESA	
12	800*600	53.674	+	85	+	VESA	
13	832*624	49.72		74.5		MAC	
14	1024*768	48.36		60		VESA	
15	1024*768	56.48		70		VESA	
16	1024*768	60.02		75		VESA	
17	1280*720	44.772	-	59.86	+	VESA	16:9
18	1280*720	56.456	-	74.78	+	VESA	16:9
19	1360*768	47.72	-	59.8	+	VESA	16:9
20	1360*768	60.288	-	74.89	+	VESA	16:9
21	1440*900	55.935	-	59.89	+	VESA	16:9
cancel	1440*900	70.635	-	74.98	+	VESA	16:9

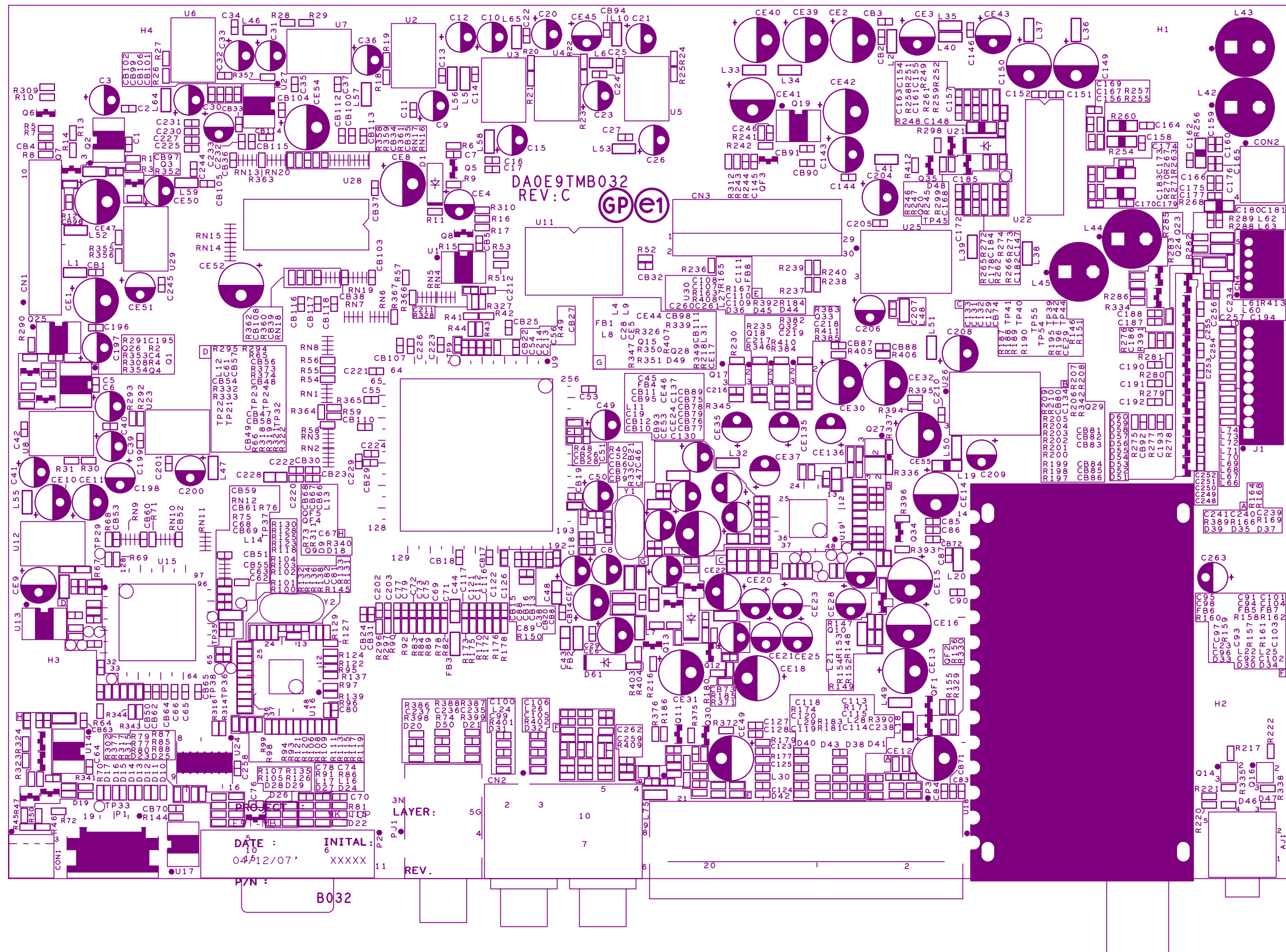
Monitor Block Diagram



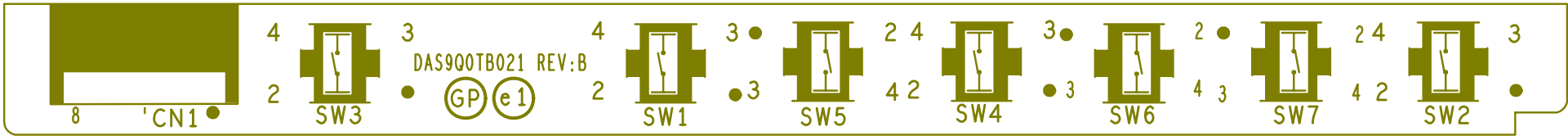
PCB CONDUCTOR VIEW

MAIN BOARD

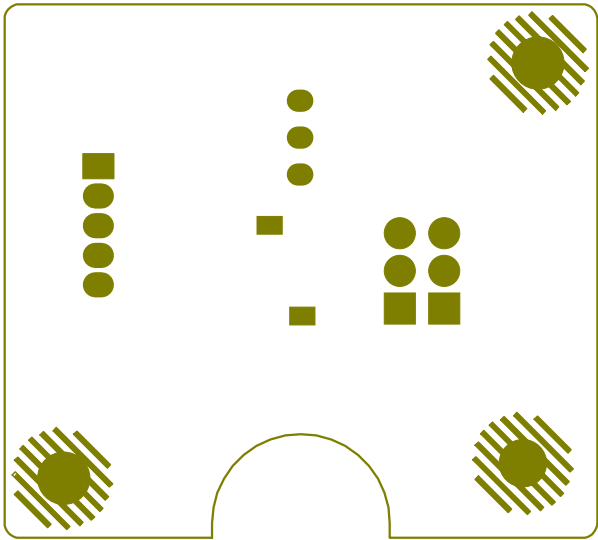
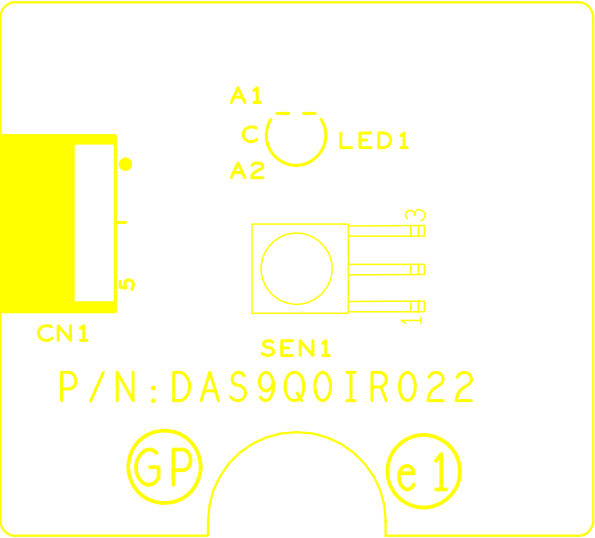




BUTTON BOARD

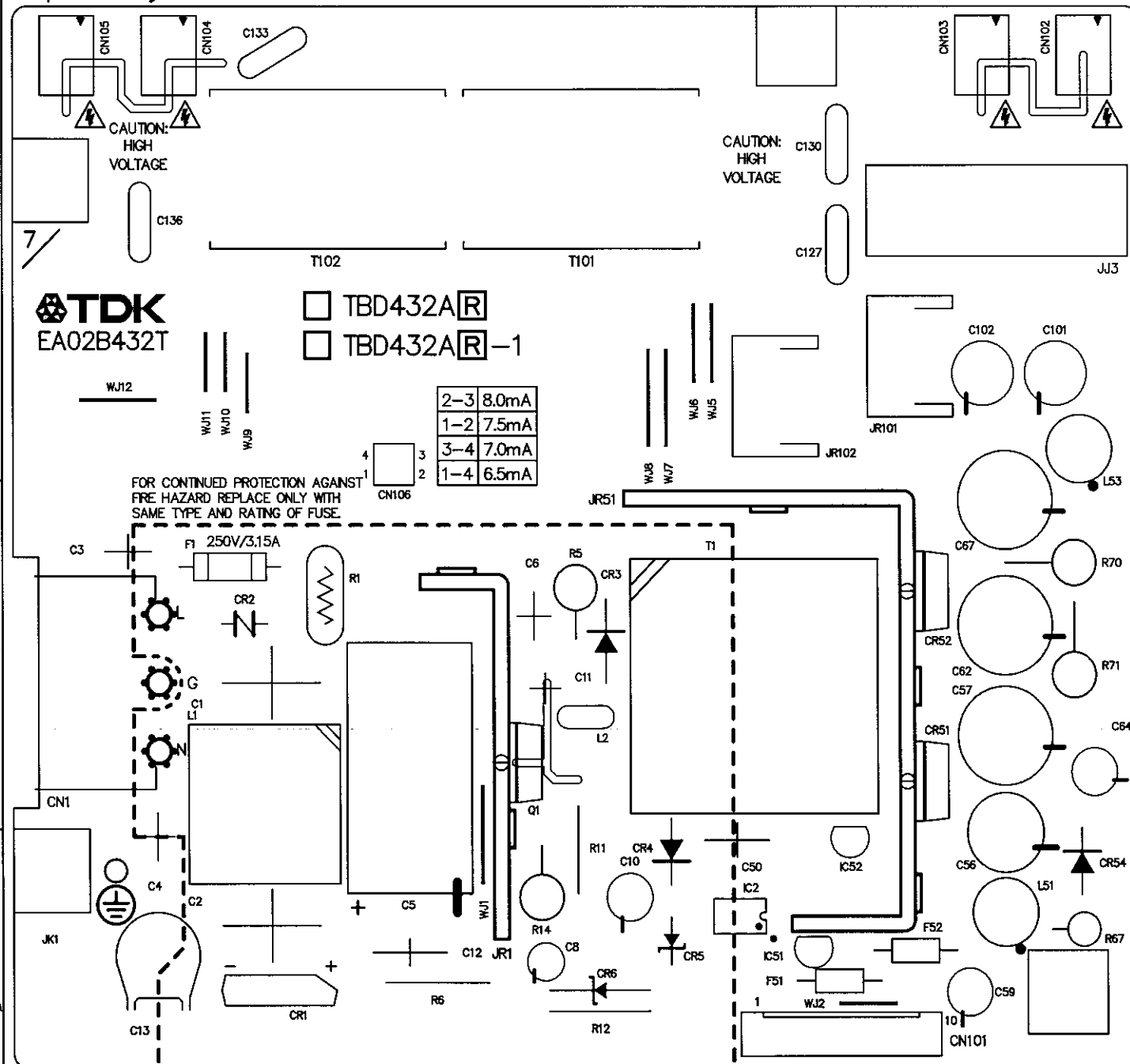


USB BOARD

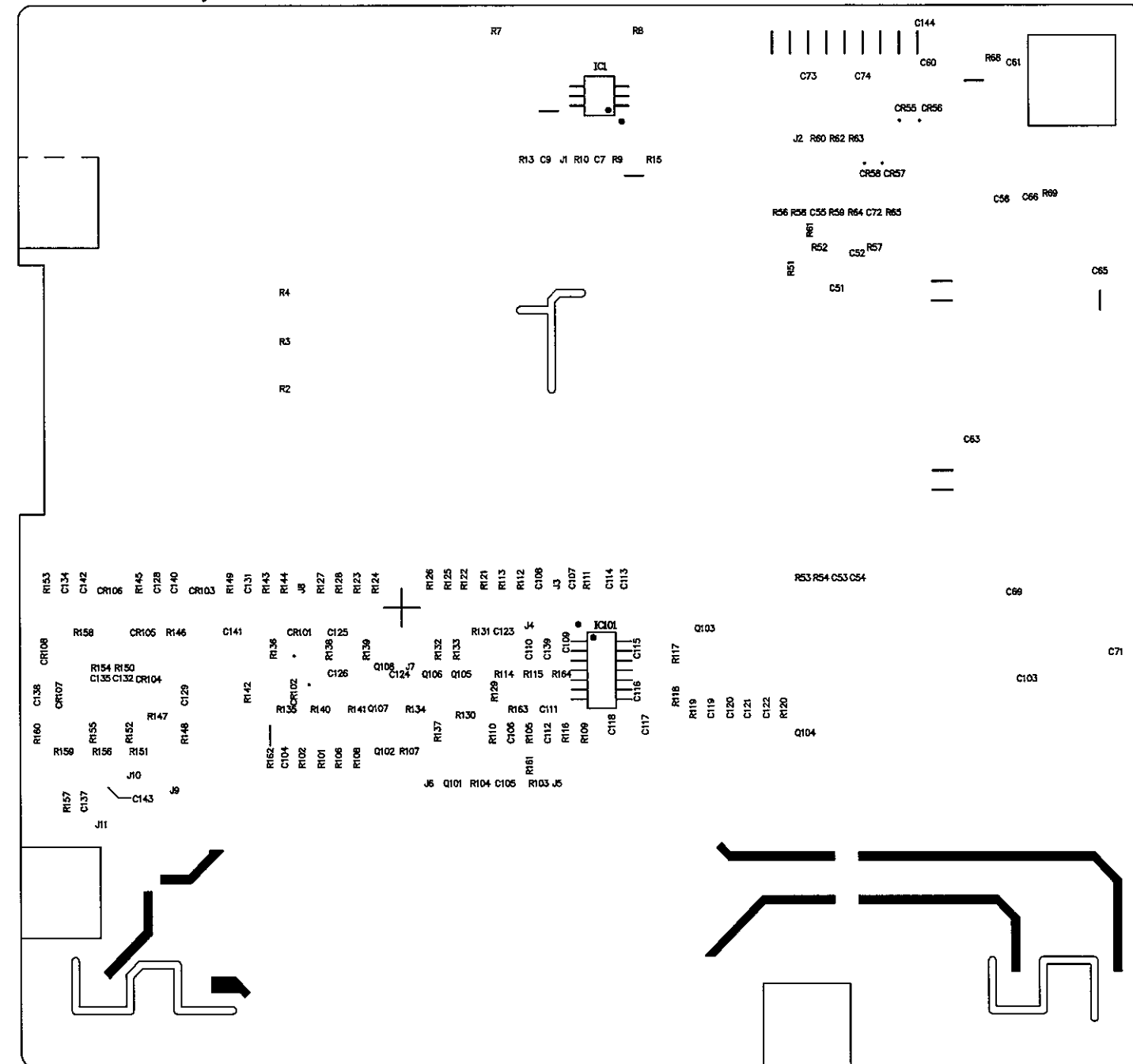


POWER BOARD

Top Overlay



Bottom Overlay



註: PCB 上須捺印 UL MARK.

No.	圖號・DWG.No.	名稱・NAME	數QU:	材質・MATERIAL	處理・TREATMENT	備考・REMARK
設計・DESIGN		日期	/ /	名稱	基板圖	
製圖・DRAWING		日期	/ /	型式	TBD432AR	
檢圖・CHECKED		日期	/ /	比例	1.3/1	單位 mm
承認・APPVD		日期	/ /	圖號・DWG.No.	3EA02B432T	
承認・APPVD		日期	/ /	日期・DATE	/ /	頁・PAGE 2/4

版REV	日期DATE	設計DSGN	內容・DESCRIPTION	承認APV	TDK. 台灣東電化股份有限公司 TDK TAIWAN CORP.	3EA02B432T	/ /	2/4
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OPERATING INSTRUCTIONS

Front Panel Definition

This Section defines the front panel User Interface for Led Indicator and Key function.

	BUTTON	OSD On	OSD Off
1	Power	Software On / Off	
2	Menu / Exit	Press this button to open the OSD or Enter function	
3	CH Up	Press CH Up key to move selection up	Press these buttons to select the TV channel in sequence.
4	CH Down	Press CH Down key to move selection down	Press these buttons to select the TV channel in sequence.
5	Vol Left	Press Vol Left key to move selection left or to decrease value	Press these buttons to select the volume level.
6	Vol Right	Press Vol Right key to move selection right or to increase value	Press these buttons to select the volume level.
7	Input / OK	Press this button to confirm selection	Press this button to select the input source: ATV -->AV-->S-Video-->SCART -->HDMI--->VGA--> Back to ATV
	PS:	PS: SCART: RGB/S-Video/CVBS	

Remote Controller Key Definition

Item	Key	Function
1	POWER	Power On/Off
2	Mute	Mute on/off
3	SLEEP	Into sleep mode: Timer Off / 15 / 30 / 45 / 60 / 90 / 120 (minutes)
4	Display	Pressing "Display" shows the source information
5	TV	ATV
6	SCART	SCART
7	AV	(AV/S-Video/HDMI)
8	PC	VGA
9	1	Number key 1

10	2	Number key 2
11	3	Number key 3
12	4	Number key 4
13	5	Number key 5
14	6	Number key 6
15	7	Number key 7
16	8	Number key 8
17	9	Number key 9
18	0	Number key 0
19	Recall	Return to previous channel
20	Enter	Enter to confirm channel selection by number key
21	Up	1.Navigate up in the OSD menu 2.channel up when OSD menu is not showed on screen
22	Down	1.Navigate down in the OSD menu 2.channel down when OSD menu is not showed on screen
23	Left	1.Navigate left in the OSD menu 2.volume down when OSD menu is not showed on screen
24	Right	1.Navigate right in the OSD menu 2.volume up when OSD menu is not showed on screen
25	OK	Selection Confirmation
26	Menu	Open/Exit Menu
27	Channel Up	In ATV mode, press this key to do Channel up,
28	Channel Down	In ATV mode, press this key to do Channel down
29	Volume up	Volume up
30	Volume down	Volume down
31	MPX	NICAM STEREO Broadcast : Stereo/Mono BILINGUAL Broadcast : Sound 1 / Sound 2 MONAURAL : Mono FM-FM STEREO Broadcast : Stereo/Mono BILINGUAL: Sound1/Sound2/Stereo/Mono
32	INDEX	Go to index page (usually page 10)
33	SUBTITLE	When in teletext mode of any possible source, toggle subtitle on and off In digital TV mode, press it to change various, subtitle language and off in a loop. TV screen will display the status icon on the left top corner
34	TELETEXT/MIX	when in any possible source which has teletext mode, Turn teletext mode on / off and Overlay the teletext page on the TV picture
35	REVEAL	Display Hidden Information



36	SIZE	When in teletext pages, this key zoom page toggle 1X/2X and page selection by Up-arrow and Down-arrow
37	SUBPAGE	Subpage directly
38	HOLD	when in teletext pages, press this button temporarily holds the current teletext page
39	R	Red color button to do teletext operation In teletext mode,
40	G	Green color button to teletext operation In teletext mode
41	Y	Yellow color button to teletext operation In teletext mode
42	B	Blue color button to teletext operation In teletext mode
43	WIDE	Scaling Mode (4:3 /16:9 /Panorama /Letterbox1/ Letterbox2/ Letterbox3)

OSD Tree

PAL Menu Structure									
1 st Sub Menu	2 nd Sub Menu	3 rd Sub Menu	4 rd Sub Menu	ATV	S-Video	AV	Scart	VGA	HDMI
Picture	Brightness	Slider	[50] 0-100 / 1	v	v	v	v	v	v
	Contrast	Slider	[80] 0-100 / 1	v	v	v	v	v	v
	Color	Slider	[70] 0-100 / 1	v	v	v	v		v
	Hue	Slider	[50] 0-100 / 1		v	v	v		v
	Sharpness	Slider	[4] 0-7 / 1	v	v	v	v		v
	Back Light	Slider	[100] 0-100 / 1	v	v	v	v	v	v
	Color Temp	Cold		v	v	v	v	v	v
		[Standard]							
		Warm							
	Noise Reduction	[Off] / Low / Medium / High		v	v	v	v		v
	Focus	Slider	[50] 0-100 / 1					v	
	Clock	Slider	[50] 0-100 / 1					v	
	H-Position	Slider	[0] -50-50 / 1					v	
	V-Position	Slider	[0] -50-50 / 1					v	
	Auto Adjust							v	
Audio	Treble	Slider	[50] 0-100 / 1	v	v	v	v	v	v
	Bass	Slider	[50] 0-100 / 1	v	v	v	v	v	v
	Balance	Slider	[0] -50-50 / 1	v	v	v	v	v	v

	Sound Effect	On		v	v	v	v	v	v
		[Off]							
	Steady Sound	On		v	v	v	v	v	v
		[Off]							
Channel Management	Country	UK		v					
		France							
		Germany							
		Italy							
		Spain							
		Switzerland							
		Denmark							
		Belgium							
		Netherlands							
		Luxembourg							
		Czech Republic							
		Portugal							
		United Arab Emirates							
		Saudi Arabia							
Skip	[Off]								
	Reorder		v						
	Name		v						
	Frequency		v						
	Auto Scan		v						
	Manual Scan	Scan up		v					
Scan down									
Scan for update									
	Lock This Channel	Please enter your PIN [- - - -]	Lock/[Unlock]	v					
Settings	Menu Language	[English]		v	v	v	v	v	v
		Deutsch							
		French							
		Italian							
		Spanish							
		Portuguese							
		Cestina							

		Dansk							
		Dutch							
	Sleep	[Off]/15/30/45/60/90/120		v	v	v	v		v
	Set PIN	Please enter your PIN	New PIN:	v					
		[- - - -]	Type it again to confirm:						
	Wide Mode	Full		v	v	v	v	v	v
		4:3		v	v	v	v	v	v
		[16:9]		v	v	v	v		v
		Panorama		v	v	v	v		v
		Letterbox1		v	v	v	v		v
		Letterbox2							
	HDMI Scan Info.	[Auto] / Overscan / Underscan							v
	Factory Default			v	v	v	v	v	v

Teletext Operation

TELETEXT/MIX	TV/Teletext Mode By pressing Teletext (go to index page),screen will change from TV/AV mode to Teletext mode and vice versa and Overlay the teletext page on the TV picture
Up/Down and Number Key	Page Selection Page can be selected in two ways: a. Press Up or Down to increase or decrease the page number by one b. By entering the page number, using 0~9 on the remote controller
Red/Green/Yellow/Blue	Teletext RGBY soft key In fast text mode these correspond to differently coloured subjects, In list mode they correspond to the different coloured page numbers.
HOLD	Hold the page To hold the Teletext page when viewing multi-page information. Press again to return to automatic page update
SIZE	Zoom Teletext Page This is used to zoom page up to 2X . Press again to return.
SUBTITLE	Show Subtitle on the screen
INDEX	Go to index page (usually page 10)
REVEAL	Display Hidden Information
SUBPAGE	Subpage directly

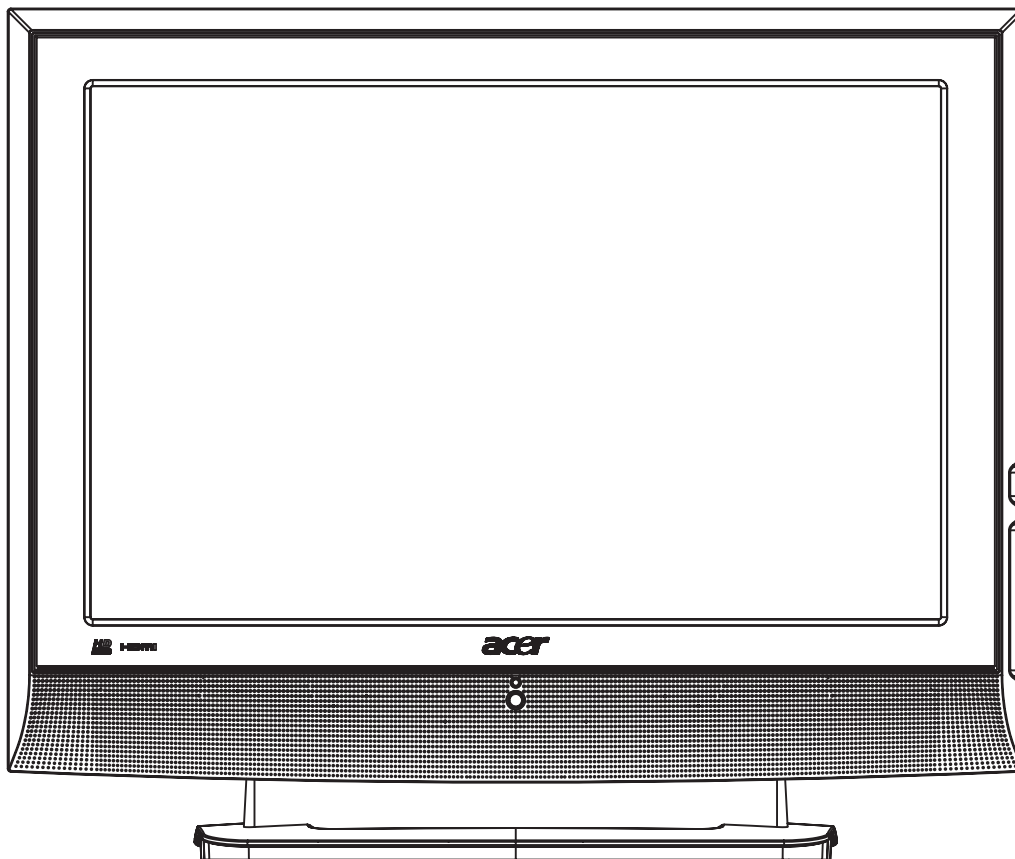
Chapter 3

Machine assembly

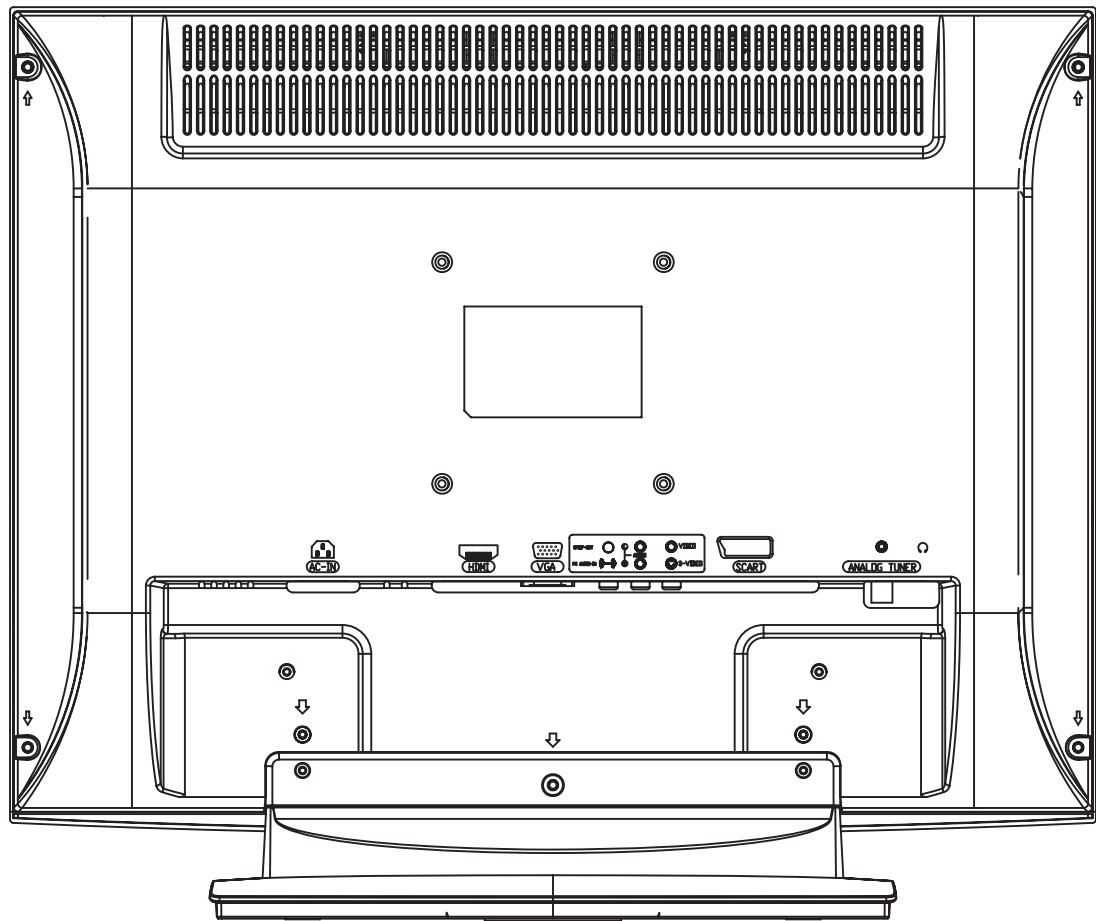
This chapter contains step-by-step procedures on how to assemble the monitor for maintenance and trouble shooting

- NOTE:**
1. The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding to avoid mismatch when putting back the components.
 2. Note: The monitor surface is susceptible to scratching! Therefore, lay the monitor on a soft surface when mounting or removing the base.
 3. Wear gloves.

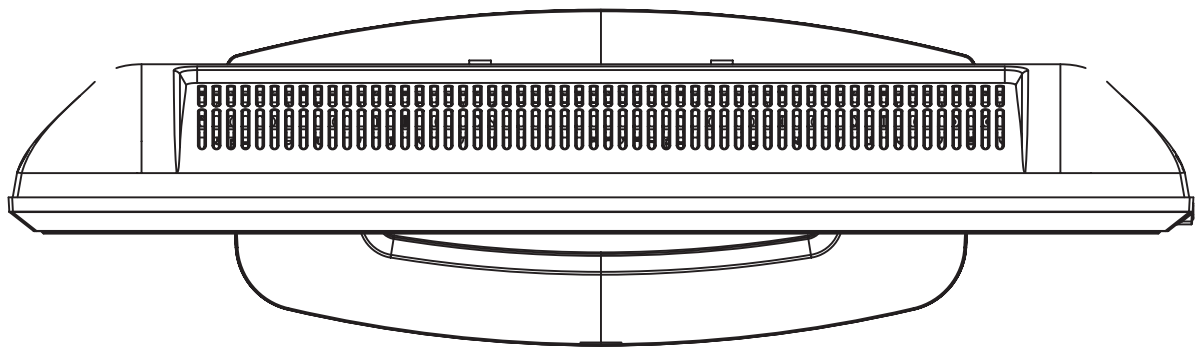
Front View: (unit: mm)



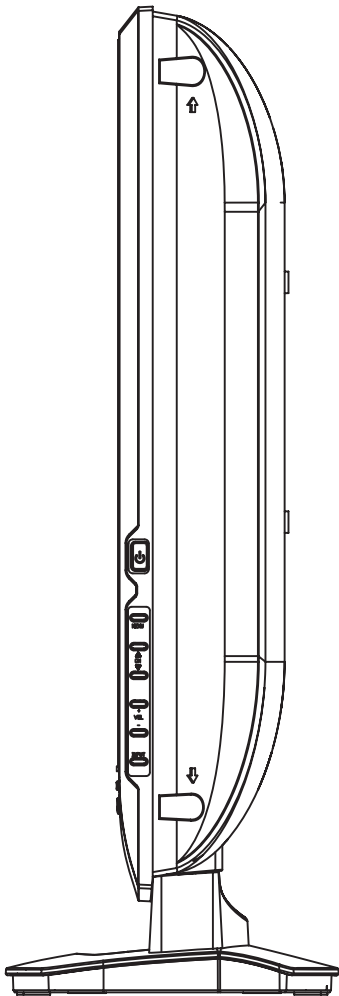
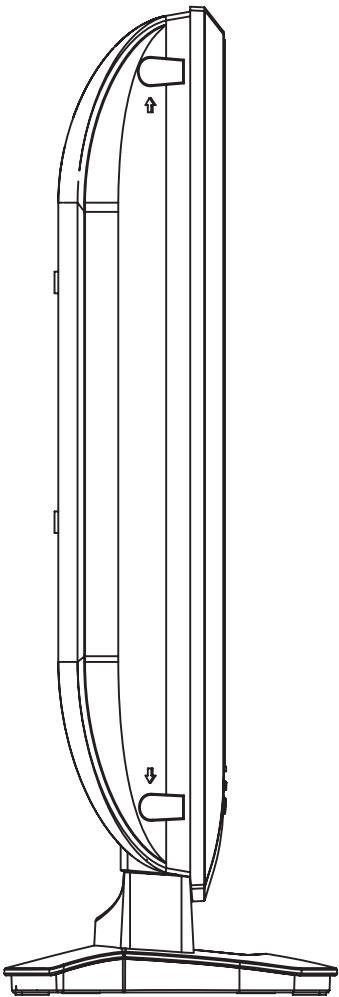
Real View:



Top View:

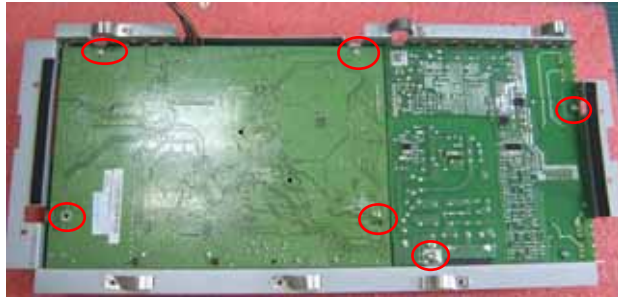


Side View: (unit: mm)



Assembly process

	CHECKING THE FOAM AND PUT IT TO THE PRODUCTION LINE. CHECKING THE SHIELDING AND STICK 2*PCS FOAM. PUT THE FLOW CARD TO THE BOARD.
	SCAN THE FLOW CARD AND CODE OF P/B INTO THE TMS SYSTEM. INSERT THE JUMP CABLE INTO THE P/B AS LEFT SHOW. CONNECT THE JUMP CABLE AND P/B WITH WHITE GOOEY MARK THE LOCATION WITH COLOR PEN AS LEFT SHOW. PUT IT TO THE PRODUCTION LINE.
  	CHECKING THE M/B AND LVDS CABLE, AND INSERT THE LVDS CABLE INTO THE JOINT OF M/B. INSERT THE M/B-P/B CABLE INTO THE JOINT OF M/B AND P/B. PUT THE CONNECTED M/B AND P/B TO THE SHIELDING, THEN PUT IT TO PRODUCTION LINE.



LOCK UP 4*PCS SCREWS(F3.0*6.0-T) TO THE LOCATION OF M/B AND P/B AS LEFT SHOW.

LOCK UP 1*PCS SCREW(F4.0*8.0-T) TO THE P/B.

LOCK UP 1*PCS SCREW(M3.0*5.0-I) TO THE P/B.



LOCK UP 2*PCS SCREWS(F3.0*6.0-T) TO THE P/B AS LEFT SHOW.

LOCK UP 1*PCS SCREW(M3.0*5.0) TO THE SHIELDING .



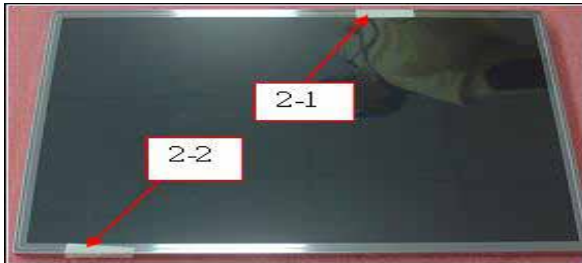
LOCK UP 1*PCS SCREW(M3.0*7.0) TO THE SHIELDING.



REMOVE THE SHIELDING FORWARD.



PUT THE PANEL TO THE PRODUCTION LINE AND TEAR OFF THE PROTECT FILM.



TEAR OFF THE PROTECT FILM OF PANEL AND CHECKING IF BAD.

STICK GOOEY TAPE FOR FIXING PROTECT FILM.

TURN OVER LCD AND TEAR OFF EP BAG.

STICK 1*PCS CODE TO PANEL AS LEFT SHOW.



SCAN THE FLOW CARD, PANEL CODE AND P/N TO TMS SYSTEM.

CHECKING THE LEFT BRACKET AND PUT IT TO THE LEFTSIDE OF PAENL.

LOCK UP 2*PCS SCREWS FOR FIXING LEFT BRACKET .



STICK 1*PCS CABLE FASTNER TO THE DOWNSIDE OF RIGHT BRACKET AS LEFT SHOW.

PUT THE RIGHT BRACKET TO THE PAENL.

LOCK UP 2*PCS SCREWS TO RIGHT BRACKET FOR FIXING.



SCAN FLOW CARD AND M/B CODE TO THE TMS SYSTEM.

INSERT THE LVDS CABLE TO THE JOINT OF PANEL.

STICK 1*PCS ACETIC TAPE FOR FIXING LVDS CABLE.

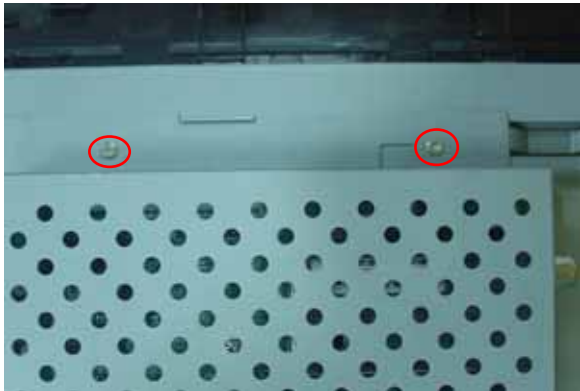




CONNECT THE SHIELDING AND BRACKET AS LEFT SHOW.

LOCK UP 4*PCS SCREWS(F3*6) FOR FIXING SHIELDING.

TRUN OVER LCD.



CHECKING THE BEZEL IF BAD AND PUT IT TO THE PANEL.

TRUN OVER THE LCD.





LOCK UP 3*PCS SCREWS FOR FIXING
RIGHTSIDE BEZEL AND BRACKET.



LOCK UP 3*PCS SCREWS FOR FIXING
LEFTSIDE BEZEL AND BRACKET.



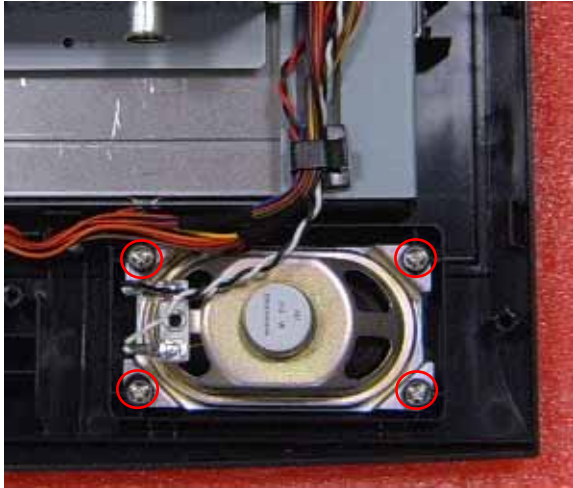
INSERT THE 4PCS LAMP CABLE TO
THE



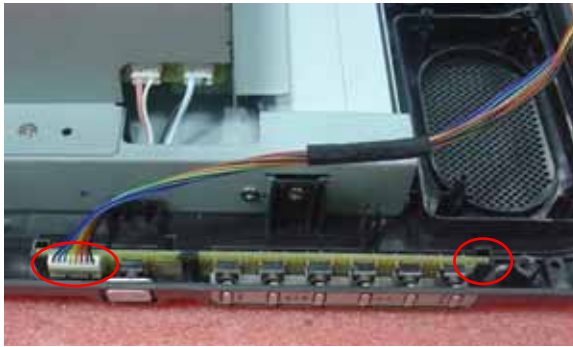
PUT THE SPEAKER TO THE BEZEL AS
LEFT SHOW.



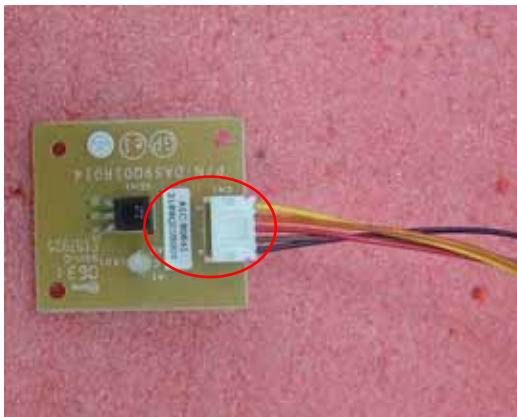
LOCK UP 4*PCS SCREWS FOR FIXING
LEFT SPEAKER.



LOCK UP 4*PCS SCREWS FOR FIXING RIGHT SPEAKER.



GET THE B/B AND CONNECT THE B/B AND BEZEL WITH B/B CABLE.

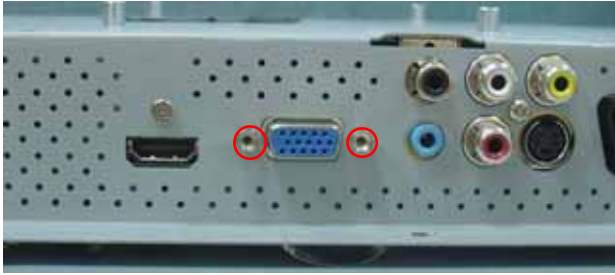


GET THE IR/B AND INSERT THE IR/B CABLE TO THE JOINT OF M/B.

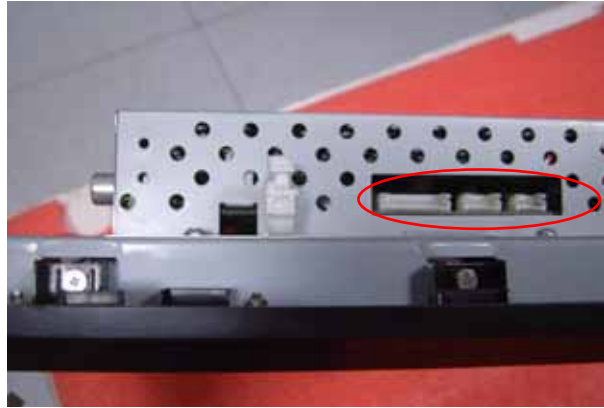
PUT THE IR/B TO THE LOCATION OF BEZEL.



LOCK UP 2*PCS SCREWS(F3*10)TO THE IR/B FOR FIXING.



LOCK UP 2*PCS IO NUTS FOR FIXING SHIELDING.



INSERT 1*PCS CABLE FASTNER TO SHIELDING.



SETTLE THE CABLE FOR B/B, SPEAKER, IR AND INSERT THEM INTO THE JOINT AS LEFT SHOW.



STICK 1*PCS ACETIC TAPE FOR FIXING B/B AS LEFT SHOW.



STICK 1*PCS AL FOIL TO AL1 WHICH IS BETWEEN THE PAENL AND SHIELDING.



LOCK UP 2*PCS SCREWS TO FIXING FASTENER BETWEEN PAENL AND BEZEL.



CHECKING THE CABLE IF WRONG WAY.

CHECKING THE SCERWS IF LOOSE.

CHECKING THE AL FOIL IF WRONG WAY.

MARK THE AL FOIL WITH WHITE PEN.

SHAKE THE LCD IF SOMETHING IN IT.



CHECKING THE REAR COVER IF BAD.

CONNECT THE BEZEL AND REAR COVER WITHOUT



LOCK UP 2*PCS SCREWS FOR FIXING REAR COVER

STICK 1*PCS FLOW CARD TO GOOEY OF REAR COVER.

COVER IT WITH BAG.



LOCK UP 5*PCS SCREWS FOR FIXING REAR COVER AND BEZEL.



INSERT THE VGA CABLE INTO THE JOINT OF VGA.

CONNECT THE POWER CORD AND LCD TV.

STAND UP LCD.



STICK FLOW CARD TO BASE.

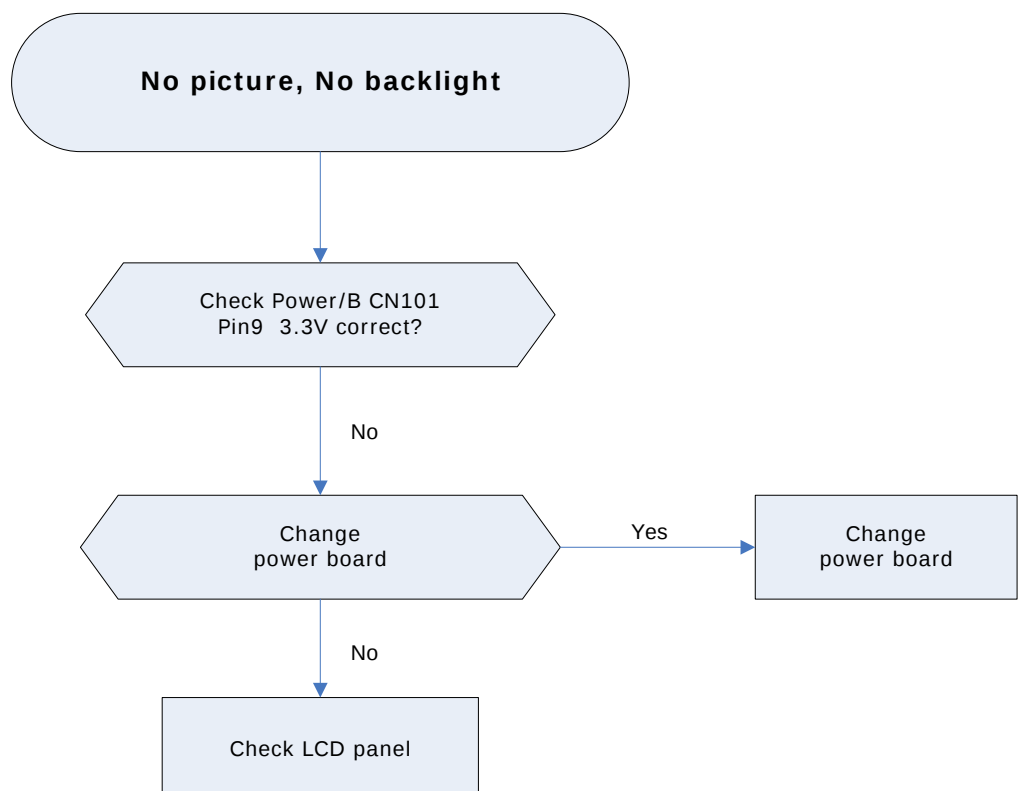
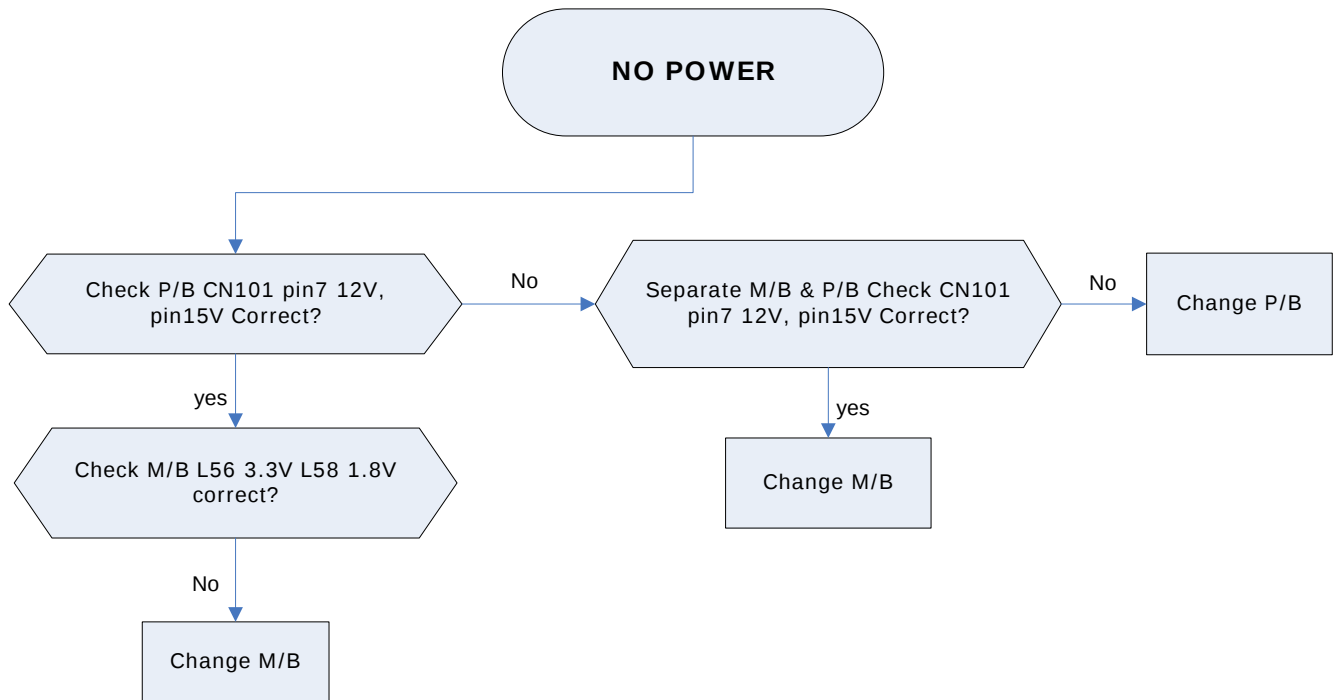
CHECKING THE BEZEL WHETHER
BAD.

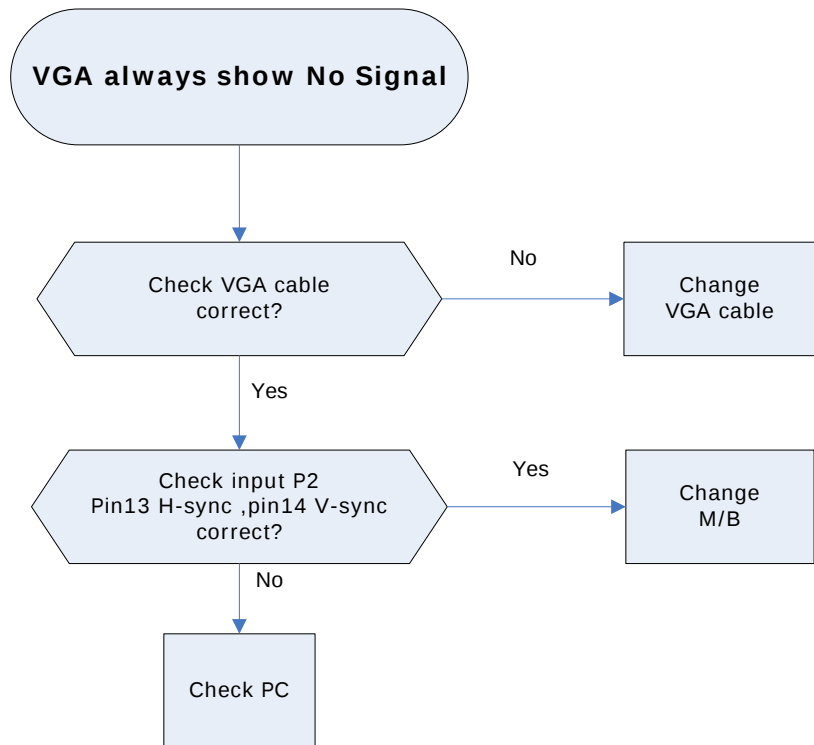
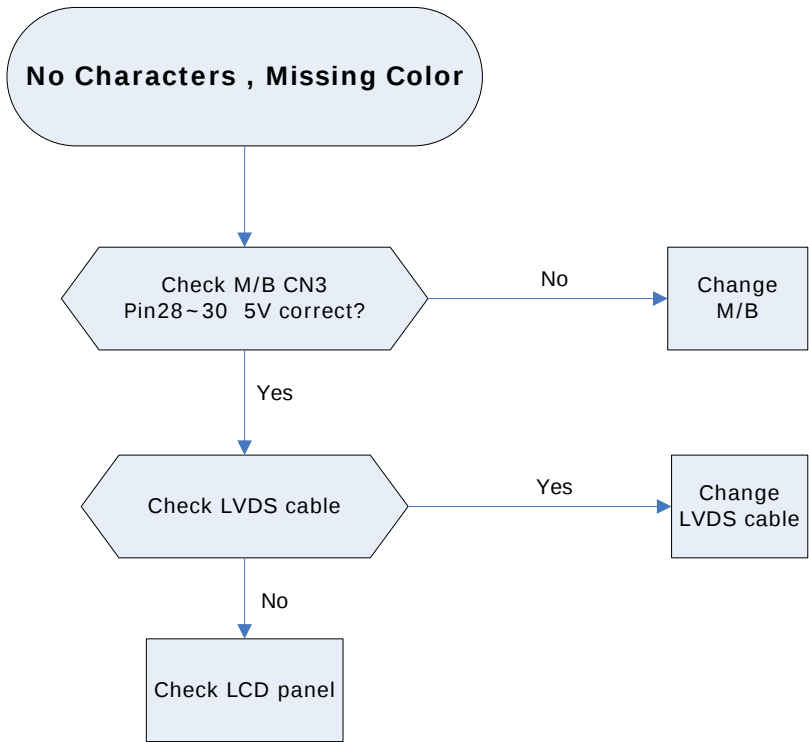
CHECKING THE REAR COVER
WHETHER BAD.

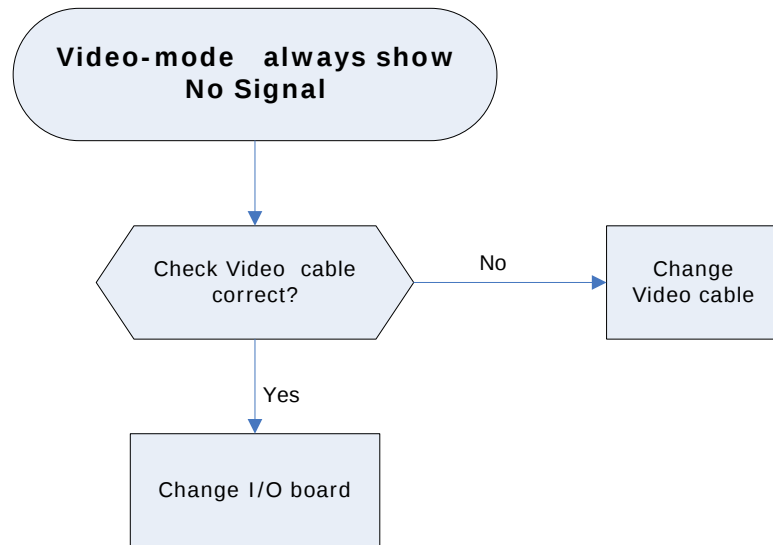
CHECKING FUNCTION/B WHETHER
BAD.

TROUBLE SHOOTING

This chapter provides trouble shooting information for AT1921/22







Chapter 5

Connector Information

1	Power Cord	Length:	1.8meters +15mm/-0mm
		Cable Color:	Black color
		Quantity:	4
2	AV (Video& Audio) Cable	Length:	1.8meters +15mm/-0mm
		Cable Color:	Black color
		Quantity:	no
3	SCART Cable	Length:	1.8meters +15mm/-0mm
		Cable Color:	Black color
		Quantity:	no
4	TV Antenna Cable	Length:	2.5meters +15mm/-0mm
		Cable Color:	Transparent color
		Quantity:	no
5	VGA Cable	Length:	1.8meters +15mm/-0mm
		Cable Color:	Black color
		Quantity:	no
6	Remote Controller Unit	Multi-function remote controller include battery	
		Quantity:	one
7	TV User Guide	Quantity:	one
8	Remote Controller User Guide	Quantity:	no
9	Warranty Card	Quantity:	no
10	Battery	Quantity:	TBD

FRU (Field Replaceable Unit) LIST

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of AL1511. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel(<http://aicsl.acer.com.tw/spl/>). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how best to dispose it, or follow the rules set by your regional Acer office on how to return it.

E9T Explode Diagram

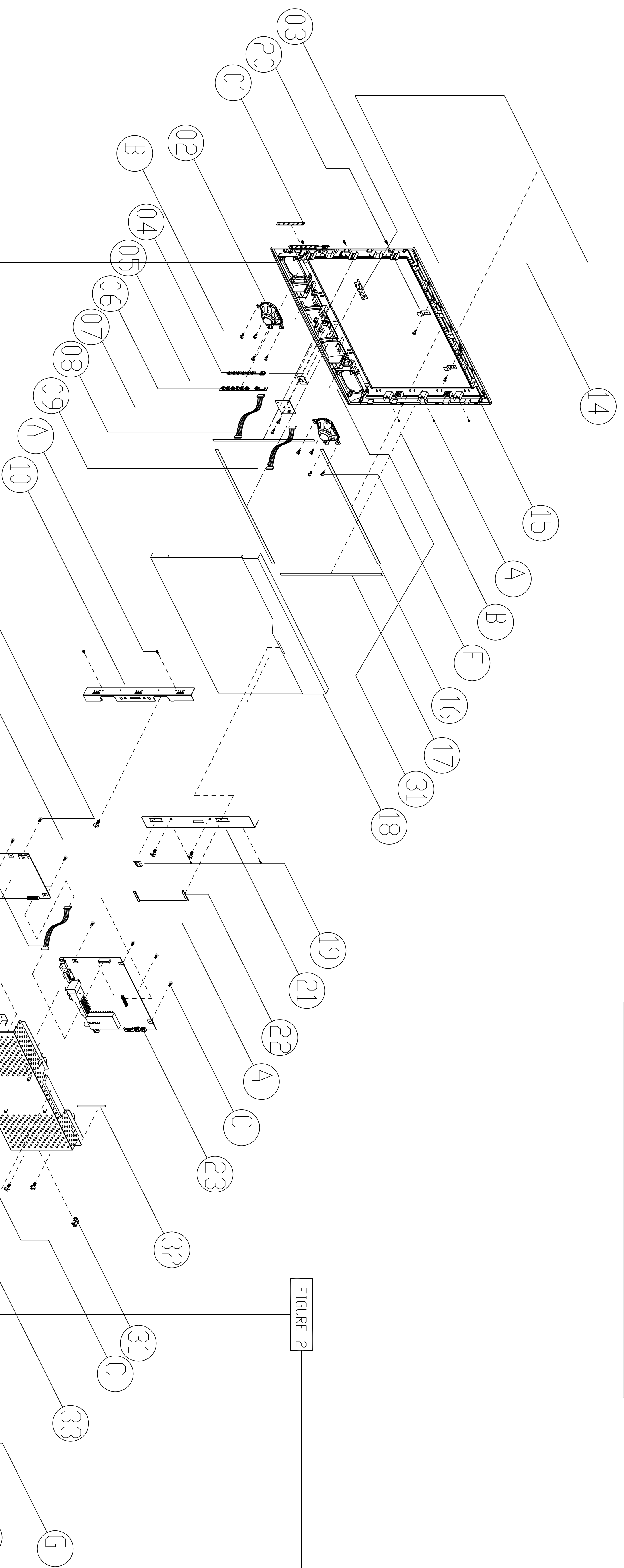


FIGURE 1

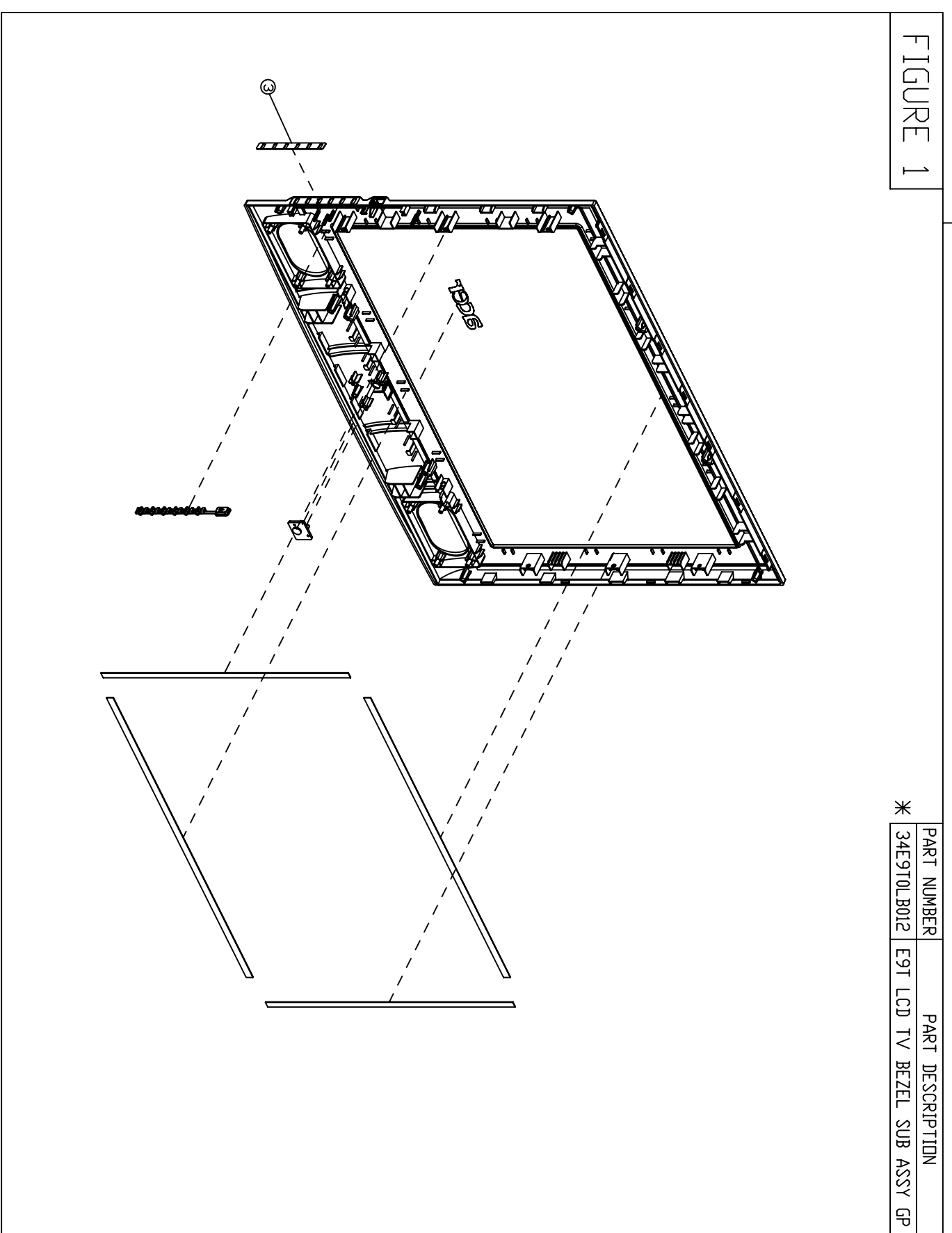


FIGURE 1

PART NUMBER PART DESCRIPTION
* 3659T00012 E9T LED TV BEZEL SUB ASSY GP

FIGURE 2

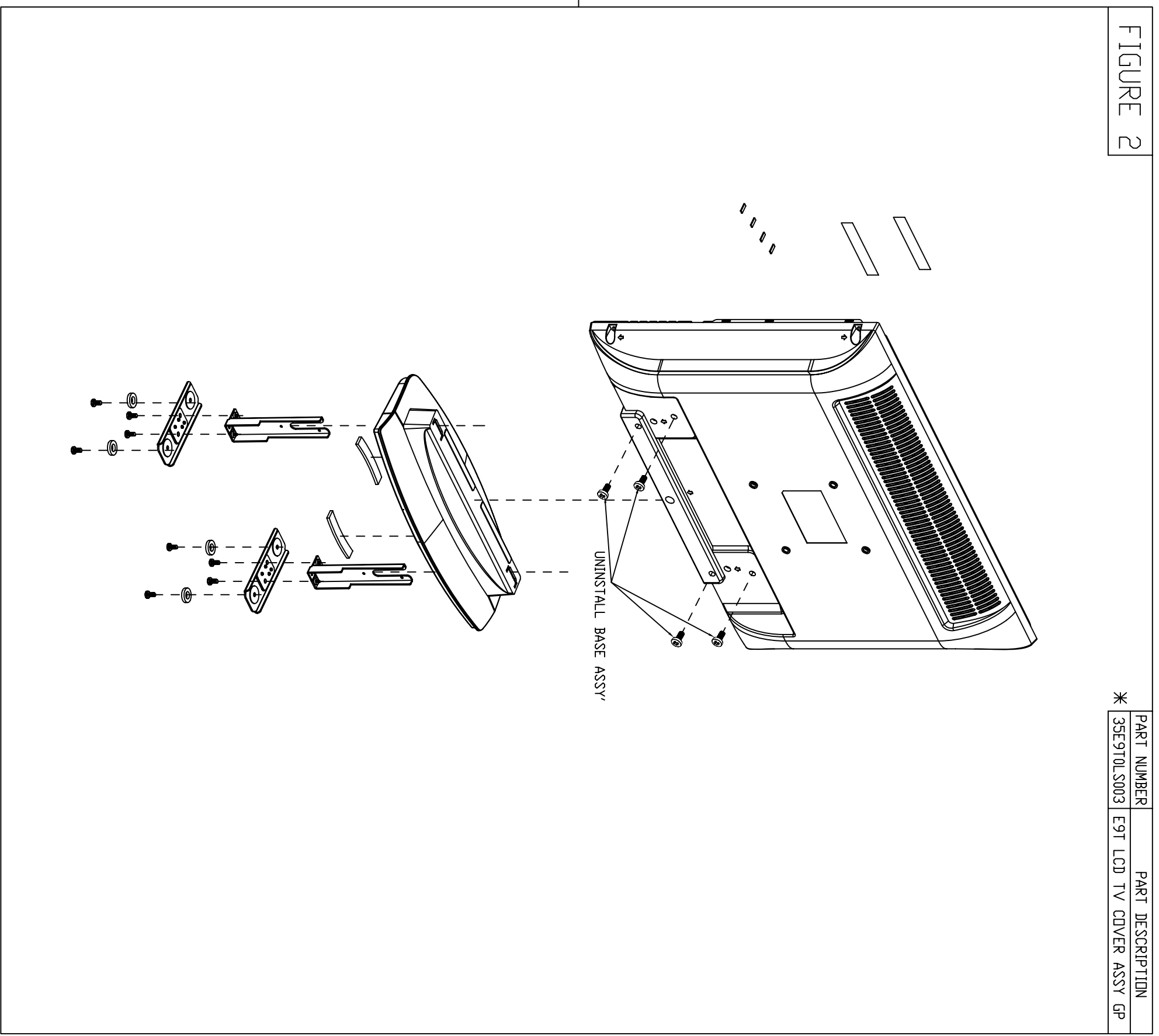


FIGURE 2

PART NUMBER PART DESCRIPTION
* 3659T00012 E9T LED TV COVER ASSY GP

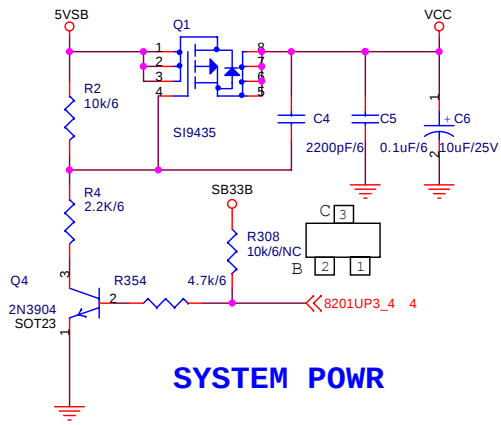
ITEM	PART NUMBER	PART DESCRIPTION	UNIT
A	MM300301B-J4	SCREW M3*3-I-NI GP	10
B	MF300608B-J5	SCREW F3.0*8L-B-NI GP	4
C	MF300607JB2	SCREW F3.0*6.0-TMC/GP	11
D	MM400808BV1	SCREW M4.0*8.0-B-NI,WASHER/GP	1
E	MBL1004018	ID NUT L11(MBL1004.REV3A)GP	1
F	MF25060FBN0	SCREW F2.5*6-PCN,WASHER GP	8
G	MF40100B-J26	SCREW F4.0*10-B(BN1) GP	5
H	MM400601L-69	SCREW M4*6-I (BND)NYL(DK)GP	4
I	MF400801J23	SCREW F4.0*8-I (BND) GP	4
J	MM30040B247	SCREW M3.0*4.0-B-BLACK(NYL(DK)GP	4
K	MF30100P-J23	SCREW F3*10(BND) GP	2
L			
M			
N			

ITEM	PART NUMBER	PART DESCRIPTION	UNIT
1	FFS9T001012	BUTTON LABEL S9T(FFS9T001.REV3A)GP	1
2	DN0TE290F09	SPEAKER ASSY S90-FC-TIE290A GP	2
3	FTVVE0003019	ACER LOGO 26-VWE6FTVVE003.REV3A)GP	1
4	EB890001018	FUNCTION BUTTON S90(EB890001.REV3A)GP	1
5	EBE9T001013	LENS E9T(EBE9T001.REV3A) GP	1
6	23S9008B008	S90 BUTTON/B ASSY GP	1
7	23S900LE007	S90 LED/B ASSY(E9T-PV) GP	1
8	DD0E9TBU002	CABLE E9T-PV MB-BUTTON(BP/10P-800MM) GP	1
9	DD0E9TIR005	CABLE E9T-PV MB-IR(SP/5P-500MM) GP	1
10	FAE9T001012	LCD BKT RIGHT E9T-PV(FAE9T001.REV3A)GP	1
11	AS053B2E502	ADP/INV/1BD432AR 90-264V REV/A GP	1
12	DD0E9TBP001	CABLE E9T-PV POWER-MB(10P/10P-80MM) GP	1
13	FAE9T001012	PCB SHIELDING E9T-PV(FAE9T001.REV3A)GP	1
14	JXW9ZAO1019	LCD FILM W9ZAKJXW9ZAO1.REV3B)GP	1
15	EAE9T004011	LCD BEZEL E9T(EAE9T004.REV3A) GP	1
16	GBE9T005019	PANEL SPONGE E9T (GBE9T005.R3A)420*7 GP	2
17	GBS90003011	PANEL SPONGE S90(GBS9003.3A)260*6*0.7GP	2
18	AAM90PW011	LCD 19" WXGA M90PW01 V.O FOR ACER GP	1
19	EBL70023013	WIRE MOUNTS L70L-EEBL70023.REV3A) GP	2
20	FBV0VA05014	PANEL HOOK W0VAFBWOV05.REV3A)GP	2
21	FAE9T002019	LCD BKT LEFT E9T-PV(FAE9T002.REV3A)GP	1
22	DDWATBL005	CABLE LVDS(G0P-150MM)WATB GP	1
23	2LE9T0MB007	E9T-PV M/B ASSY(THB201) GP	1
24	EAE9T001012	TV COVER E9T-PV(EAE9T001.REV3A)GP	1
25	HCE9T001014	RATING LABEL E9T(HCE9T001.R3A)GP	1

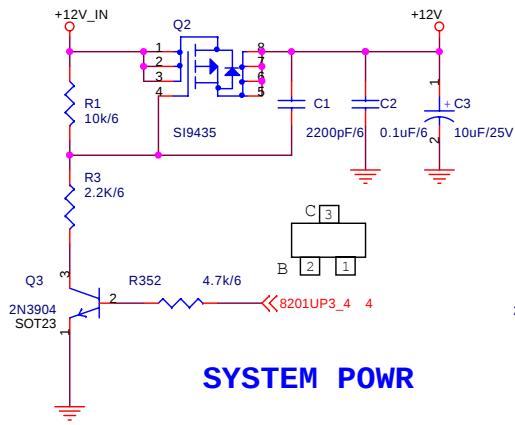
SCHEMATIC DIAGRAM

AT1920 M/B
CONTENTS

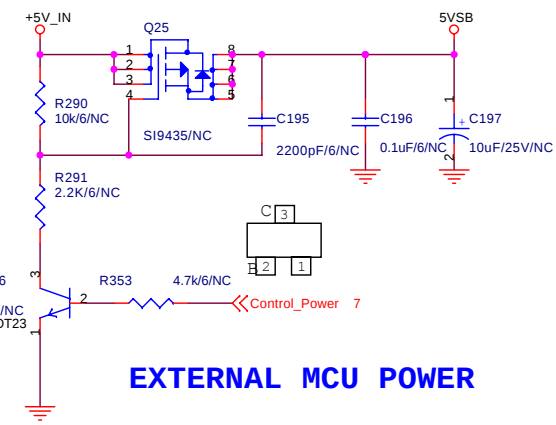
SCHEMATIC	SHEET
CONTENT	1
INDEX & POWER CONNECTOR	2
LDO	3
MT8201 LQFP256 E-PAD	4
DDR & FLASH	5
HDMI INPUT-MT8293	6
VGA IN & PC AUDIO IN	7
TUNER INPUT / GPIO	8
AV/SV/AUDIO	9
SCART FULL FUNCTION	10
MT8291 AUDIO ADC	11
LVDS OUT	12
AUDIO AMP	13
Keypad IR	14



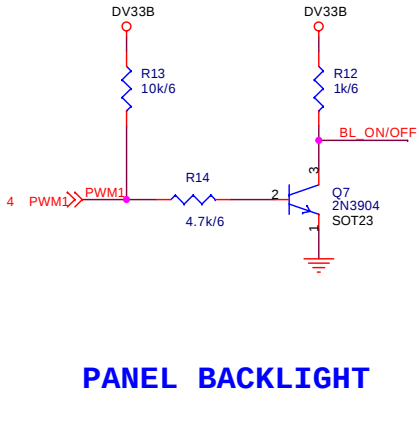
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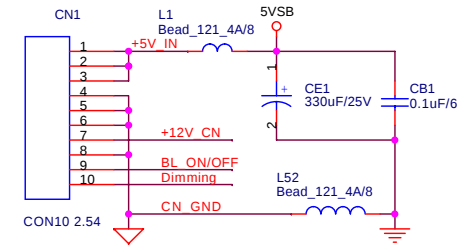
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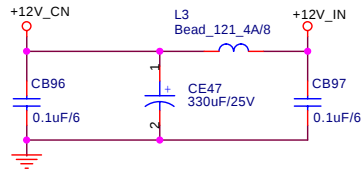
EXTERNAL MCU POWER



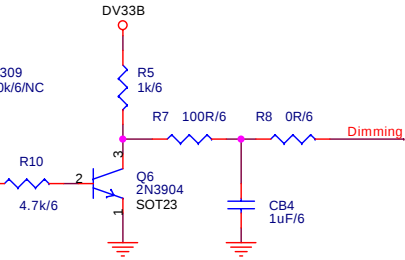
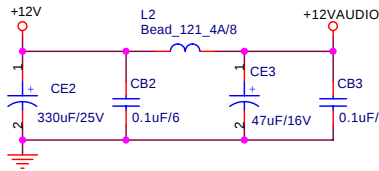
PANEL BACKLIGHT



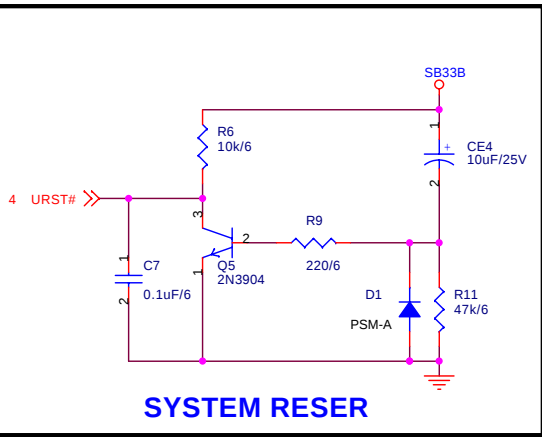
MAIN CONNECTOR



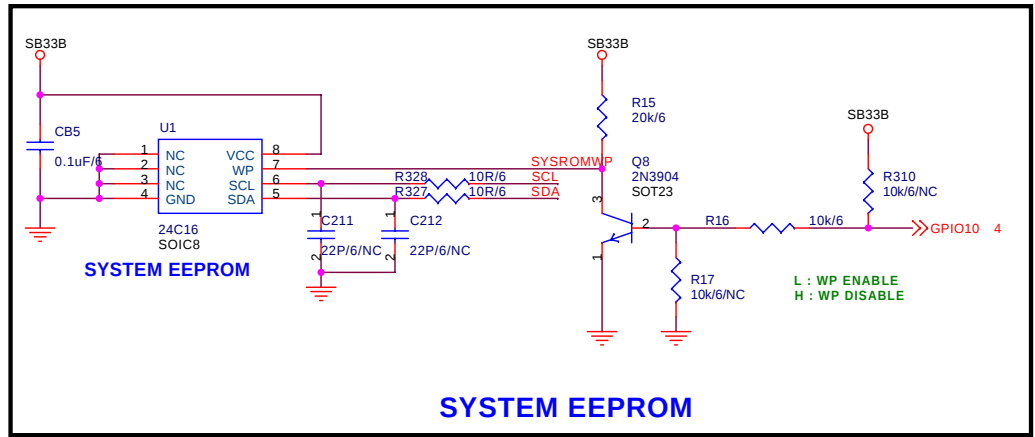
AUDIO AMP POWER



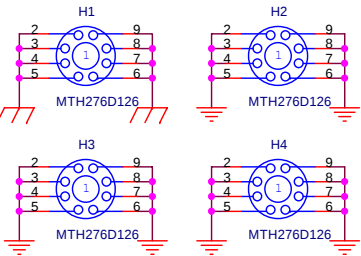
PANEL BRIGHTNESS



SYSTEM RESER

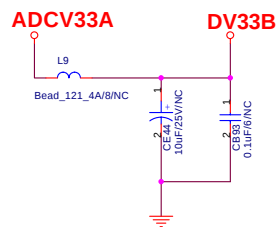
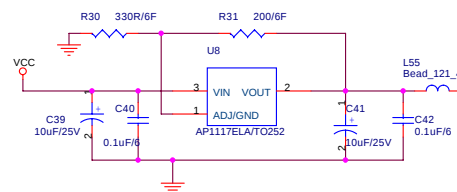
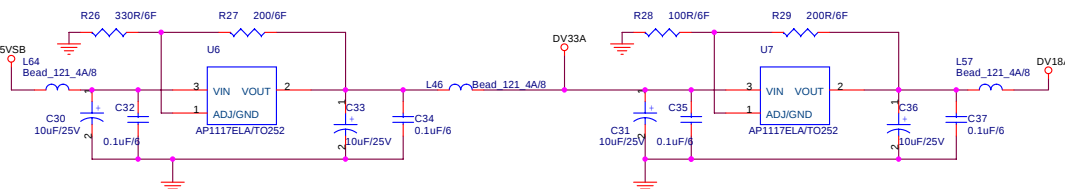
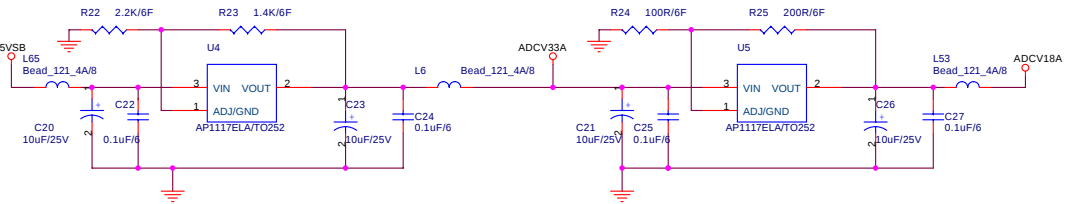
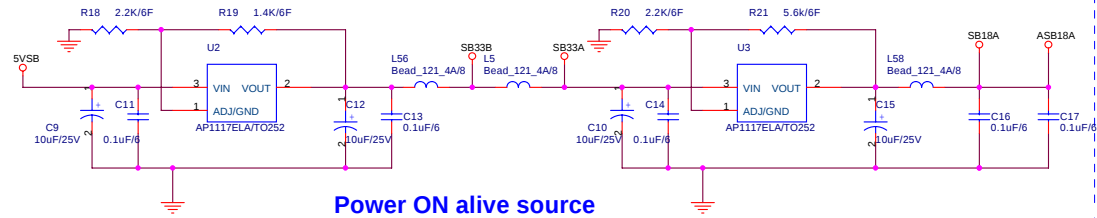


SYSTEM EEPROM

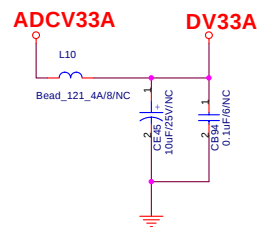


SCL >>> SCL 4,6,8,11 >>> 8201UP3_4 >>> 8201UP3_4 4
SDA >>> SDA 4,6,8,11 >>> +12VAUDIO >>> +12VAUDIO 11,13
URST# >>> URST# 4

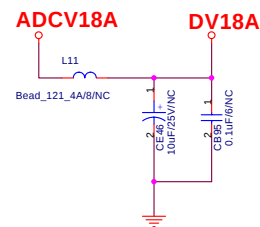
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Title			
POWER_RESET_EEPROM			
Size	Document Number	Rev	
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Date:	Tuesday, May 29, 2007	Sheet	2 of 14



PLLVD0 >> PLLVD0 4
XTALVD0 >> XTALVD0 4
VPLLVD02 >> VPLLVD02 4
ADACVD0 >> ADACVD0 4

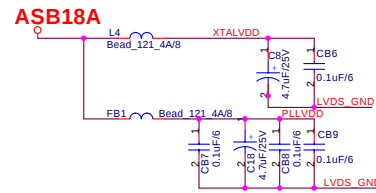


AACVD0 >> AACVD0 4
AVDD_VAD0 >> AVDD_VAD0 4
AVDD_VAD1 >> AVDD_VAD1 4
AVDD_VFE0 >> AVDD_VFE0 4
AVDD_VFE1 >> AVDD_VFE1 4

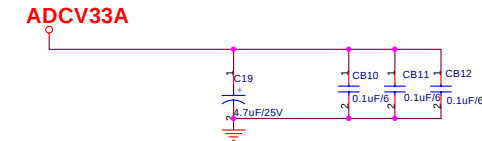


ADCV18A >> ADCV18A 4
DV18A >> DV18A 4

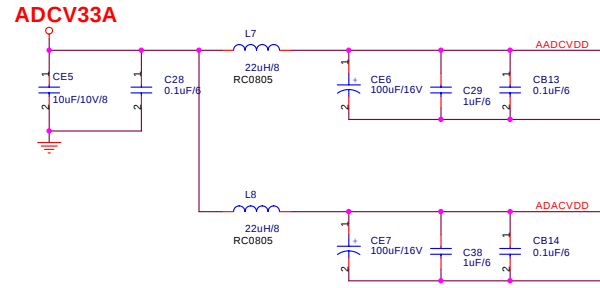
STANDBY ANALOG POWER



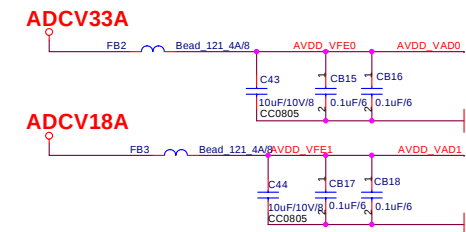
NORMAL VIDEO DAC POWER



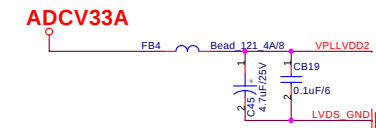
NORMAL AUDIO ADC / DAC POWER



NORMAL VIDEO ADC POWER

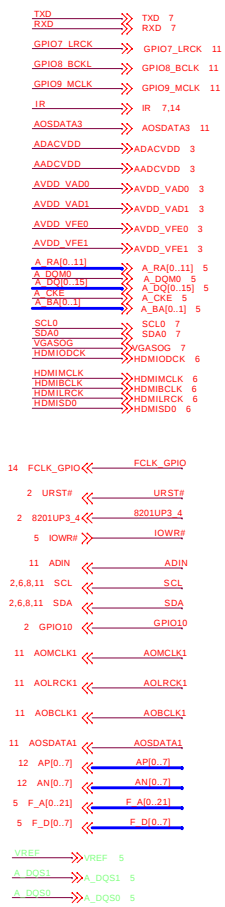
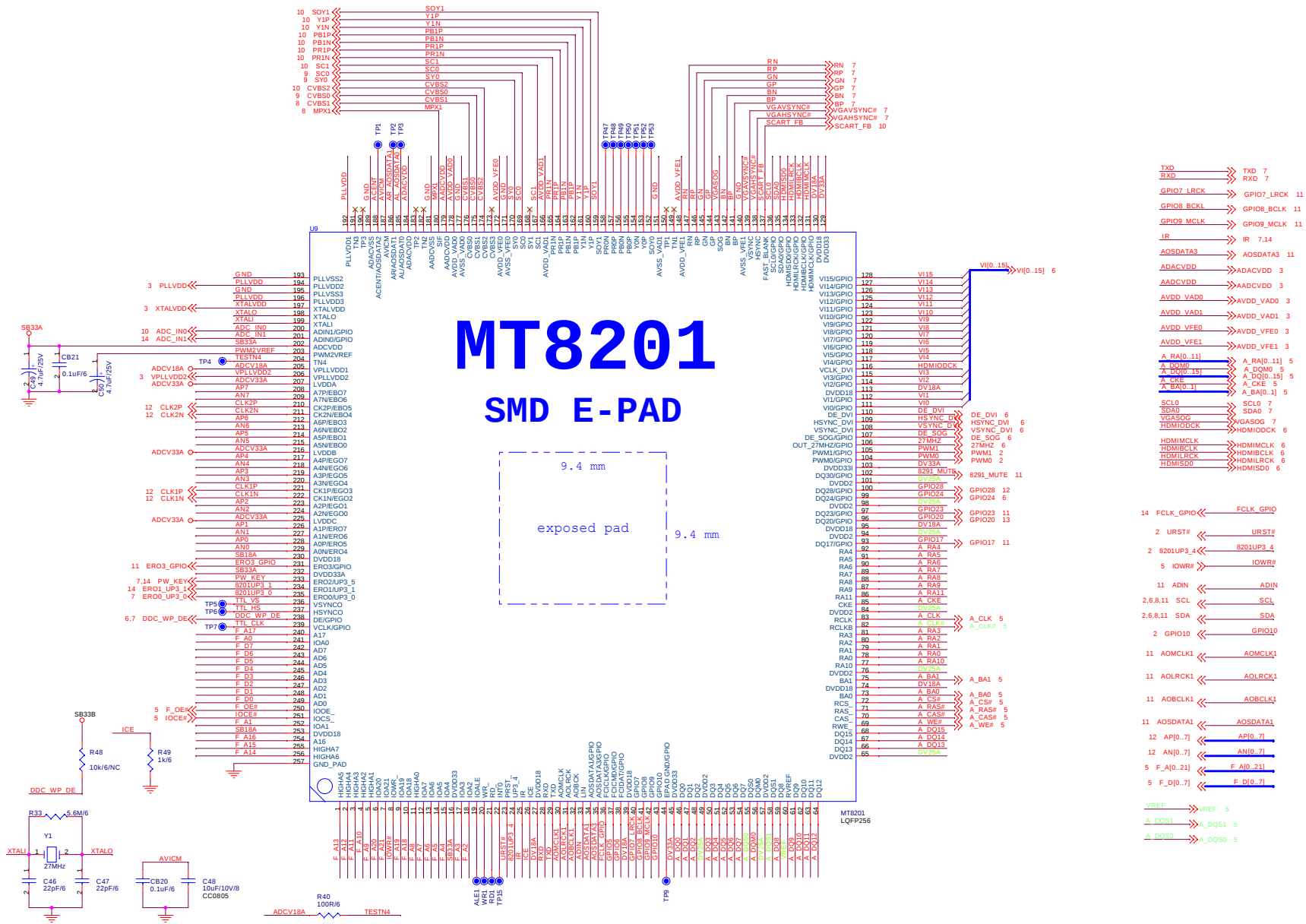


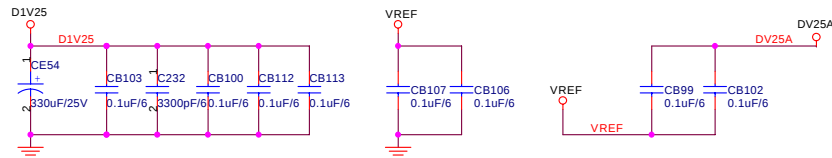
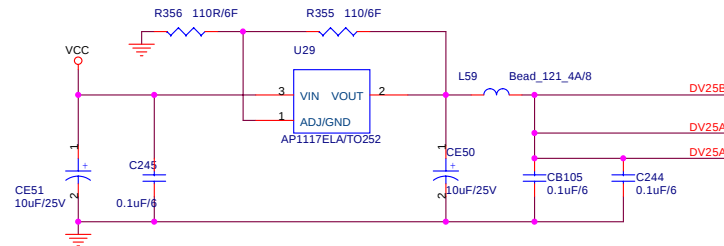
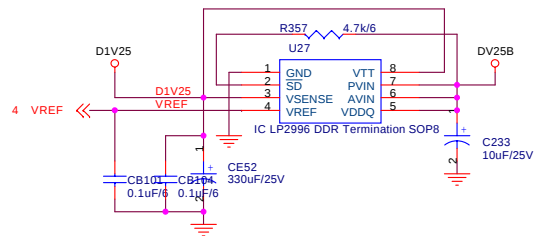
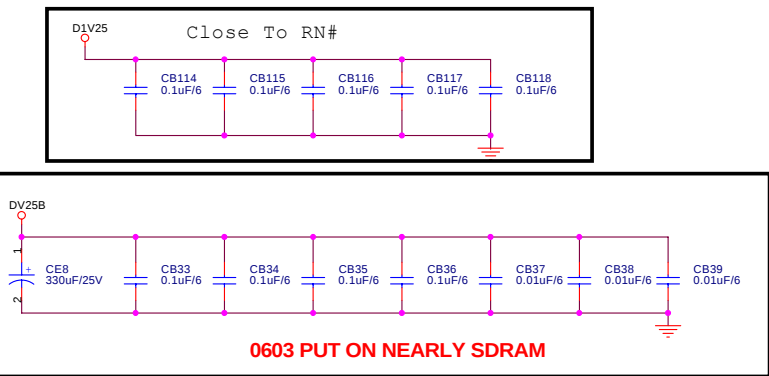
NORMAL ANALOG POWER

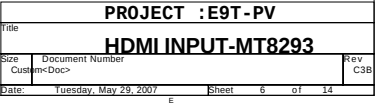


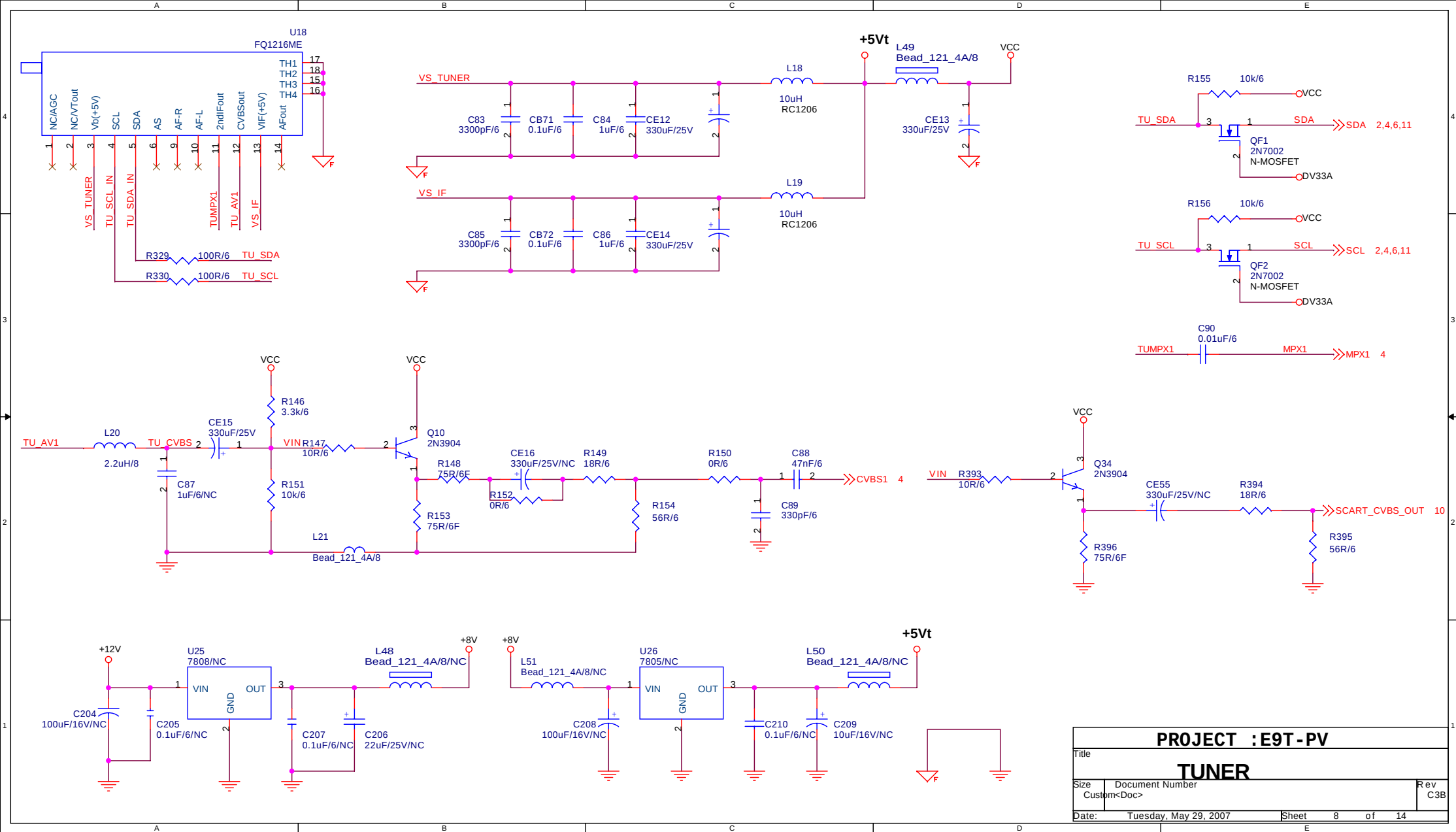
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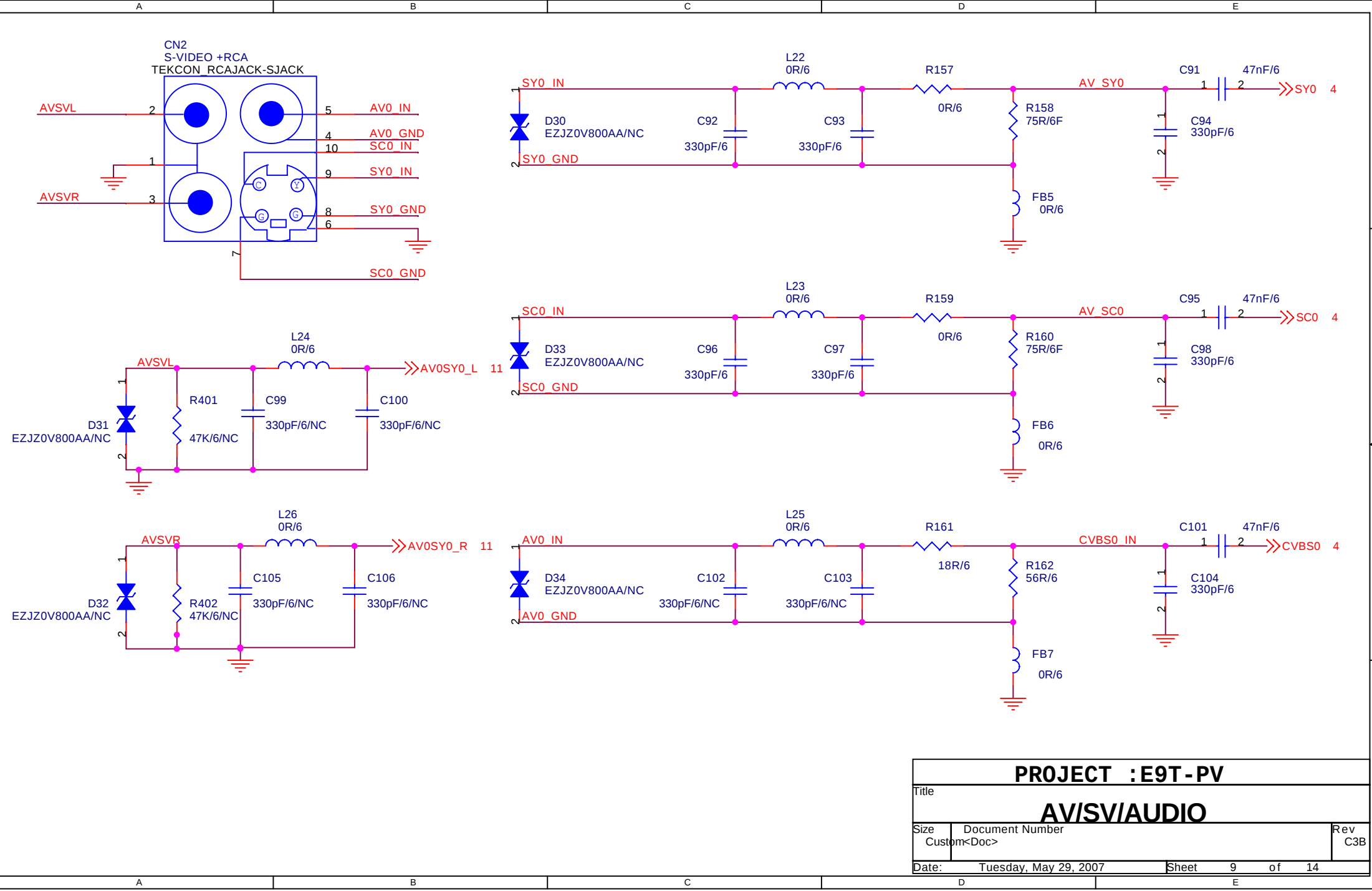
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Size	Document Number	Rev
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Date:	Tuesday, May 29, 2007	Sheet 3 of 14



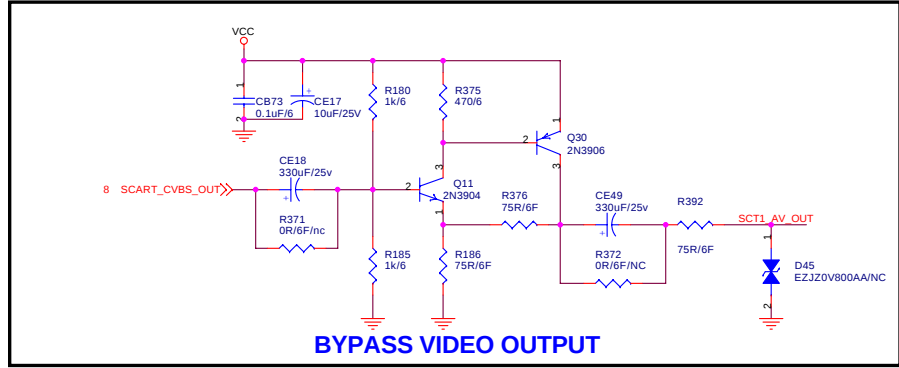
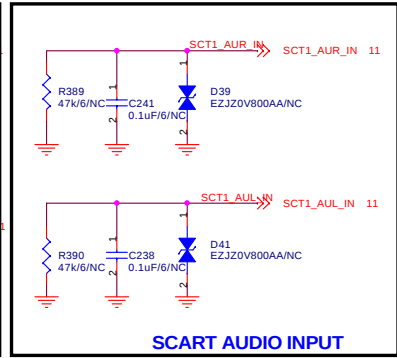
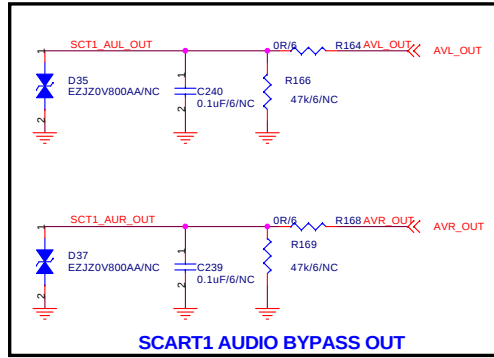
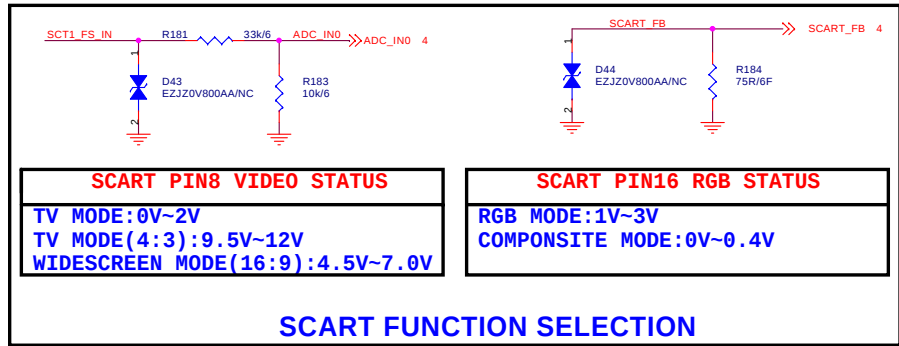
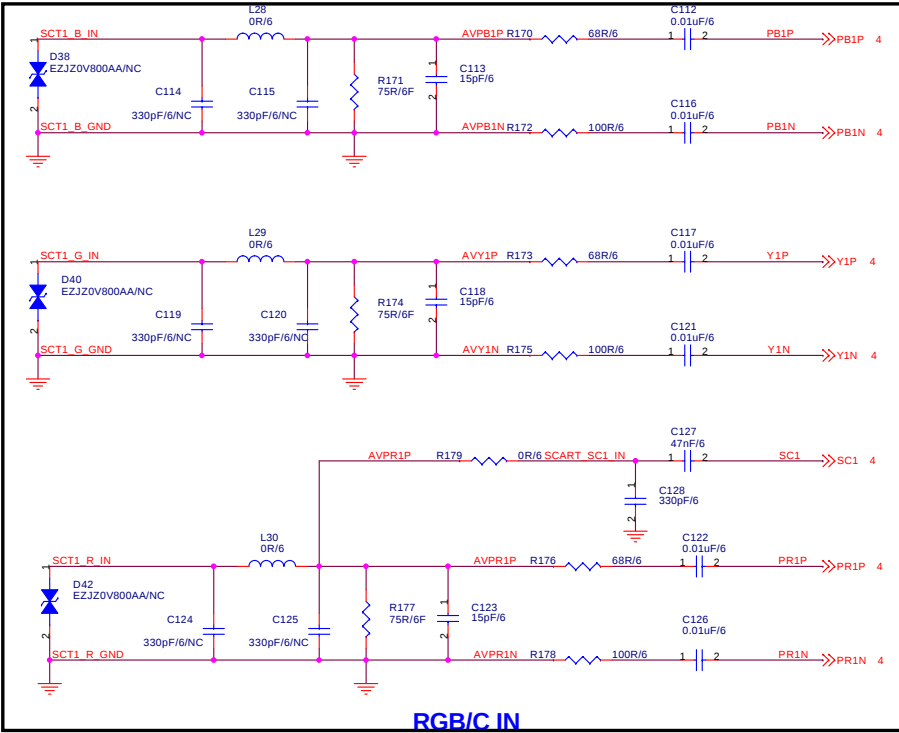
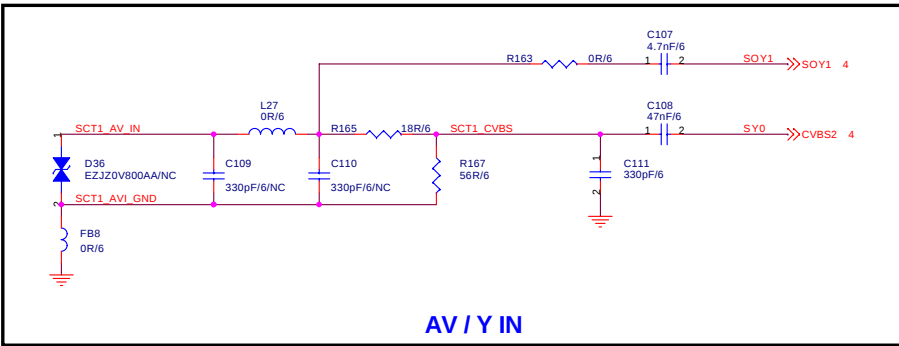
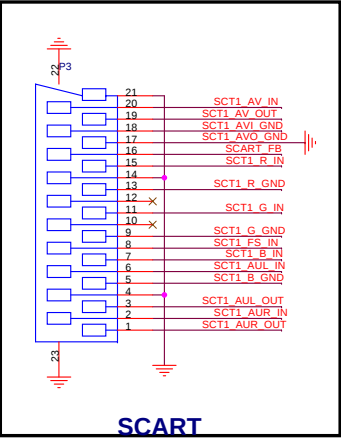




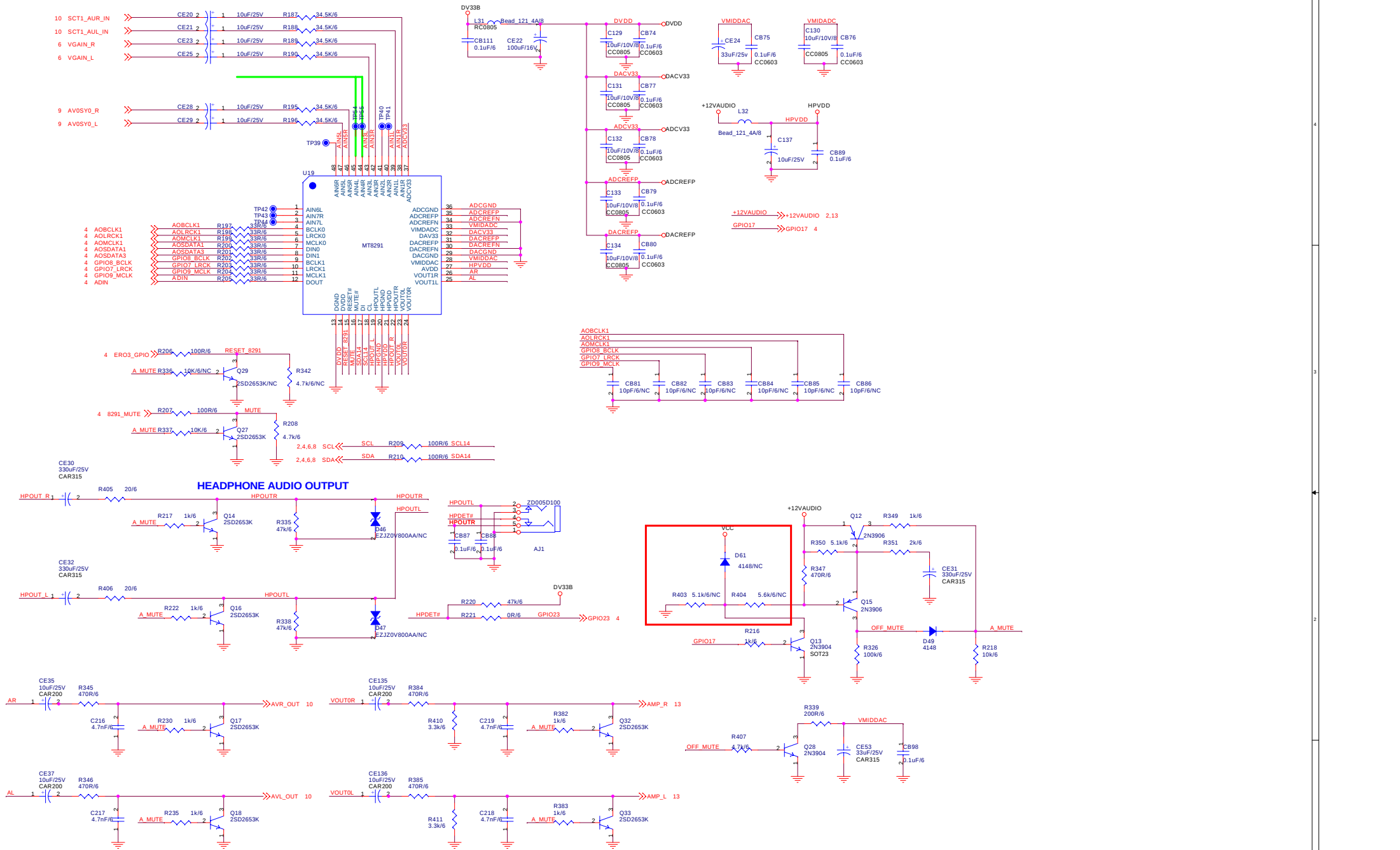




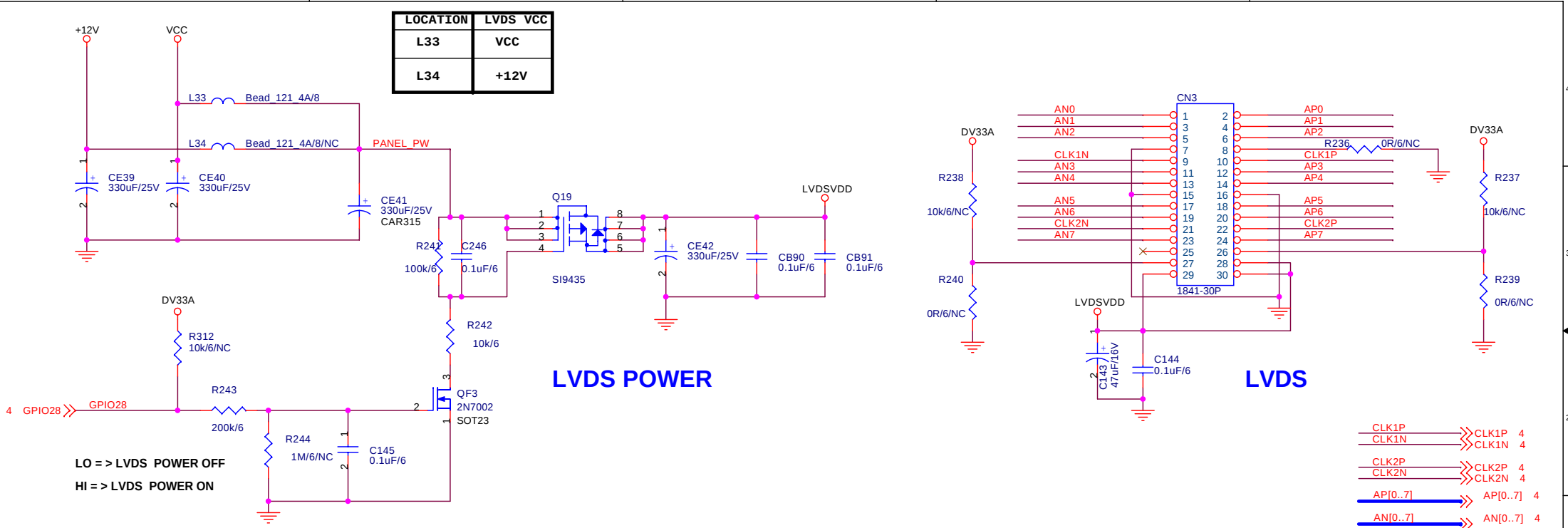
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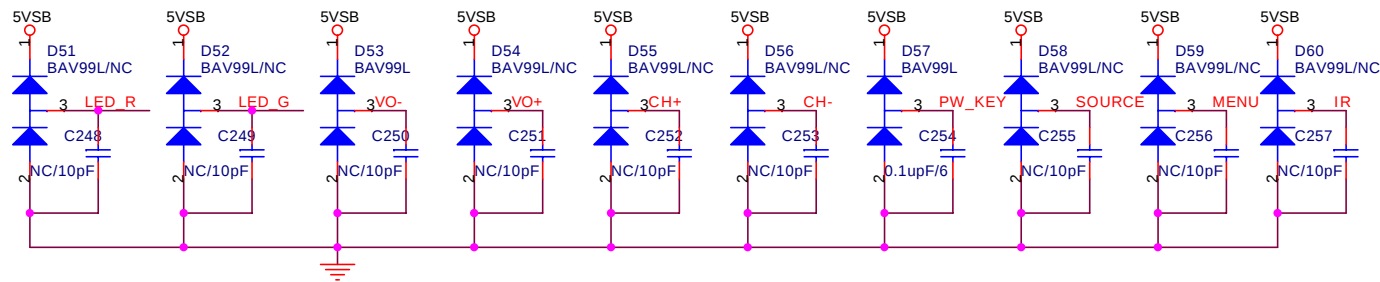
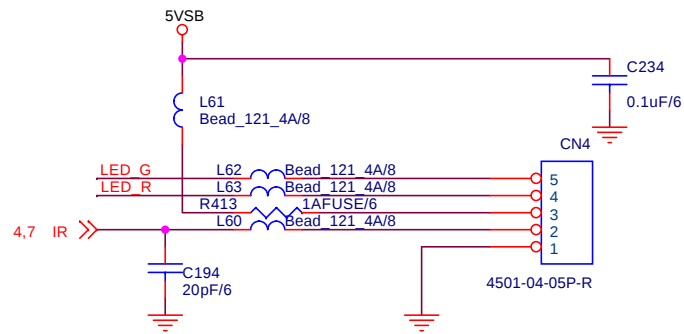
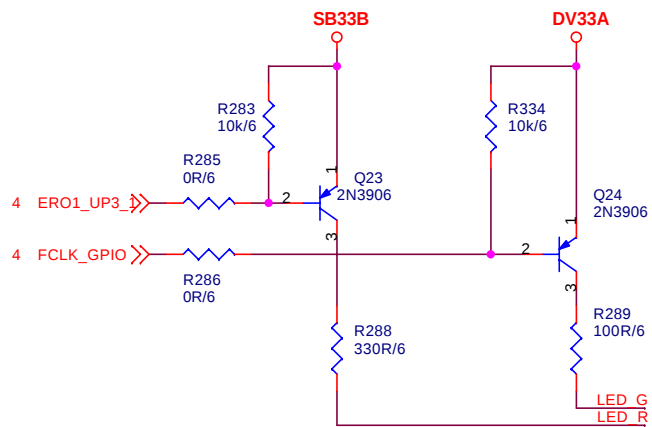
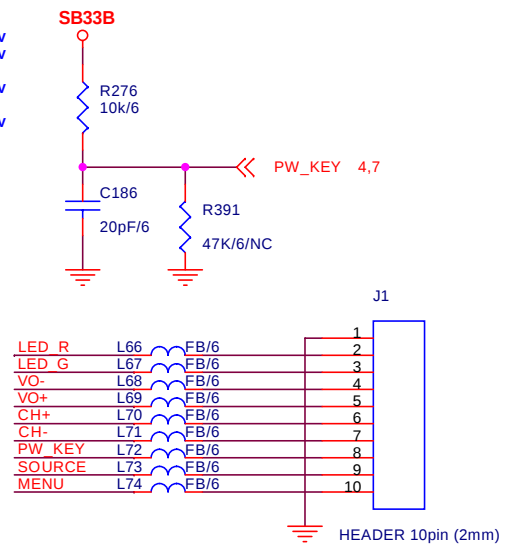
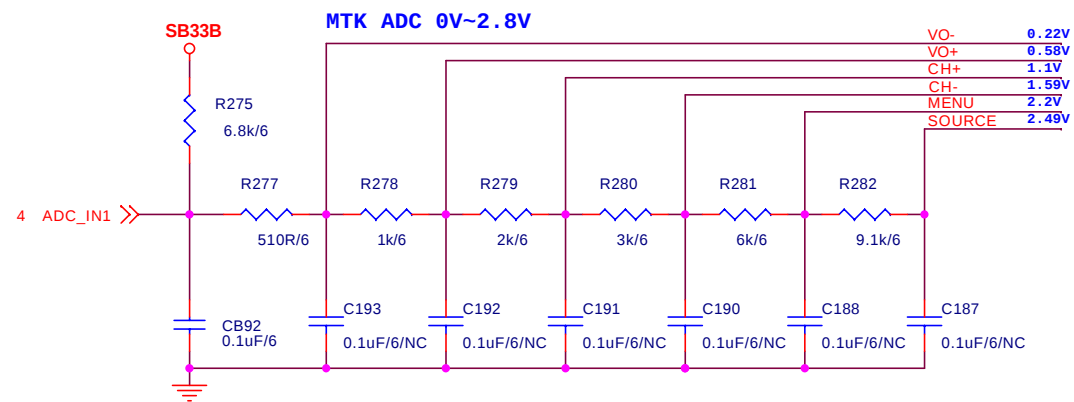
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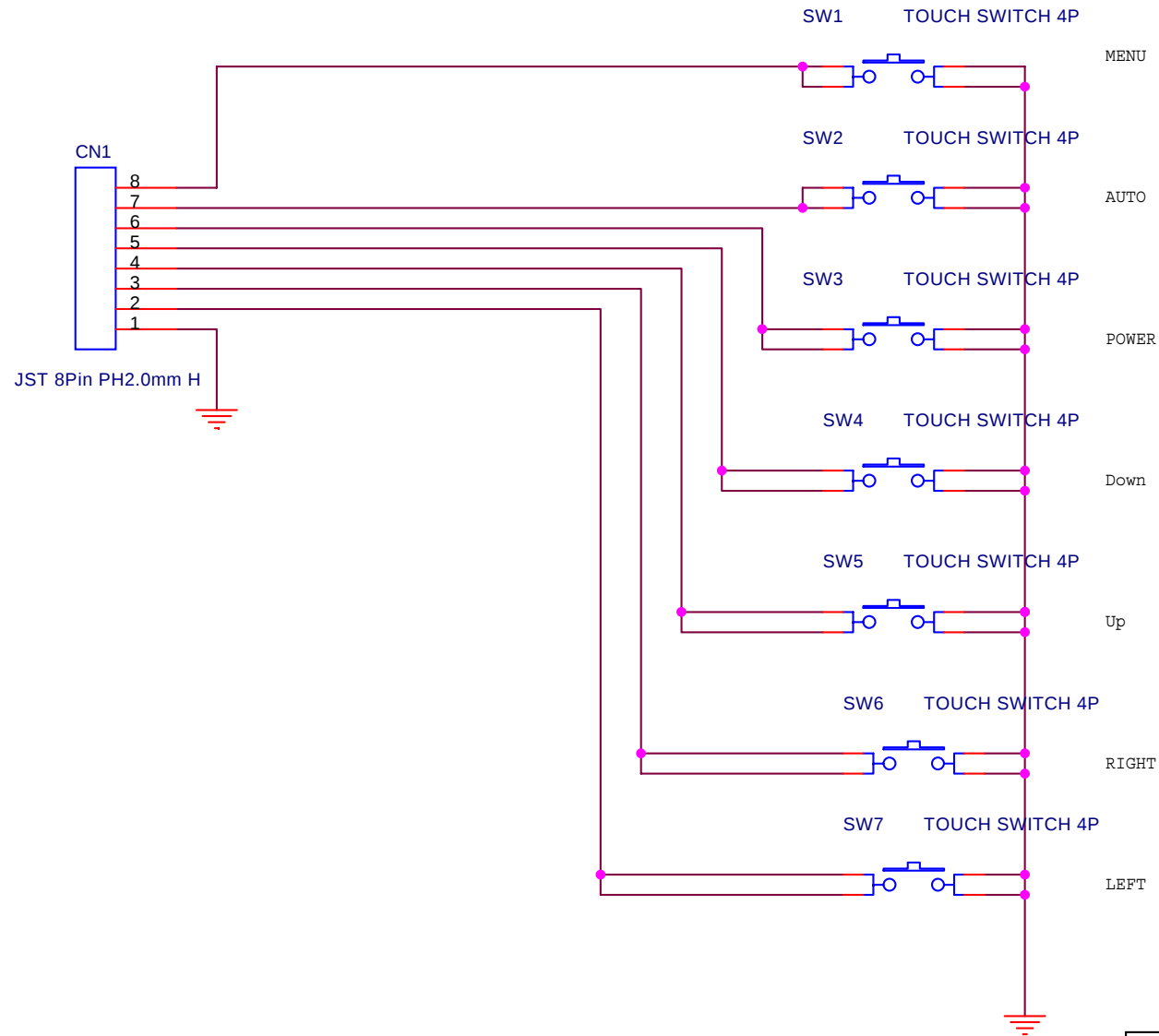
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B3A

Date:

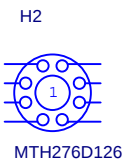
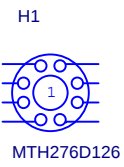
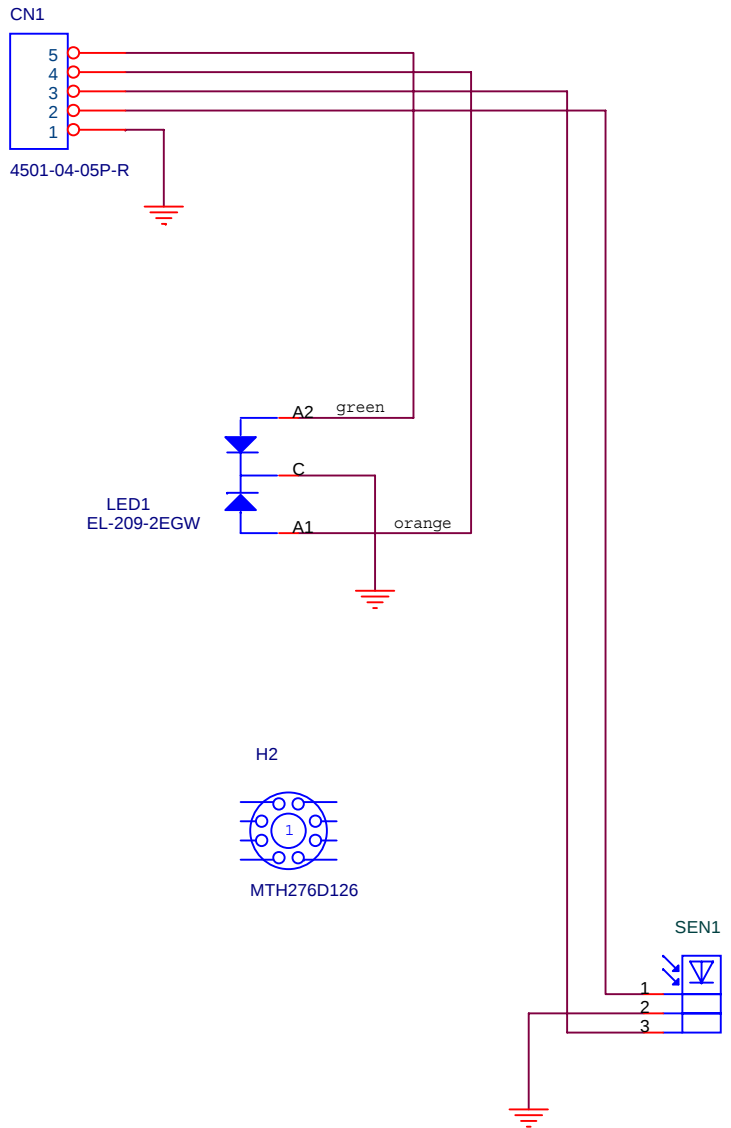
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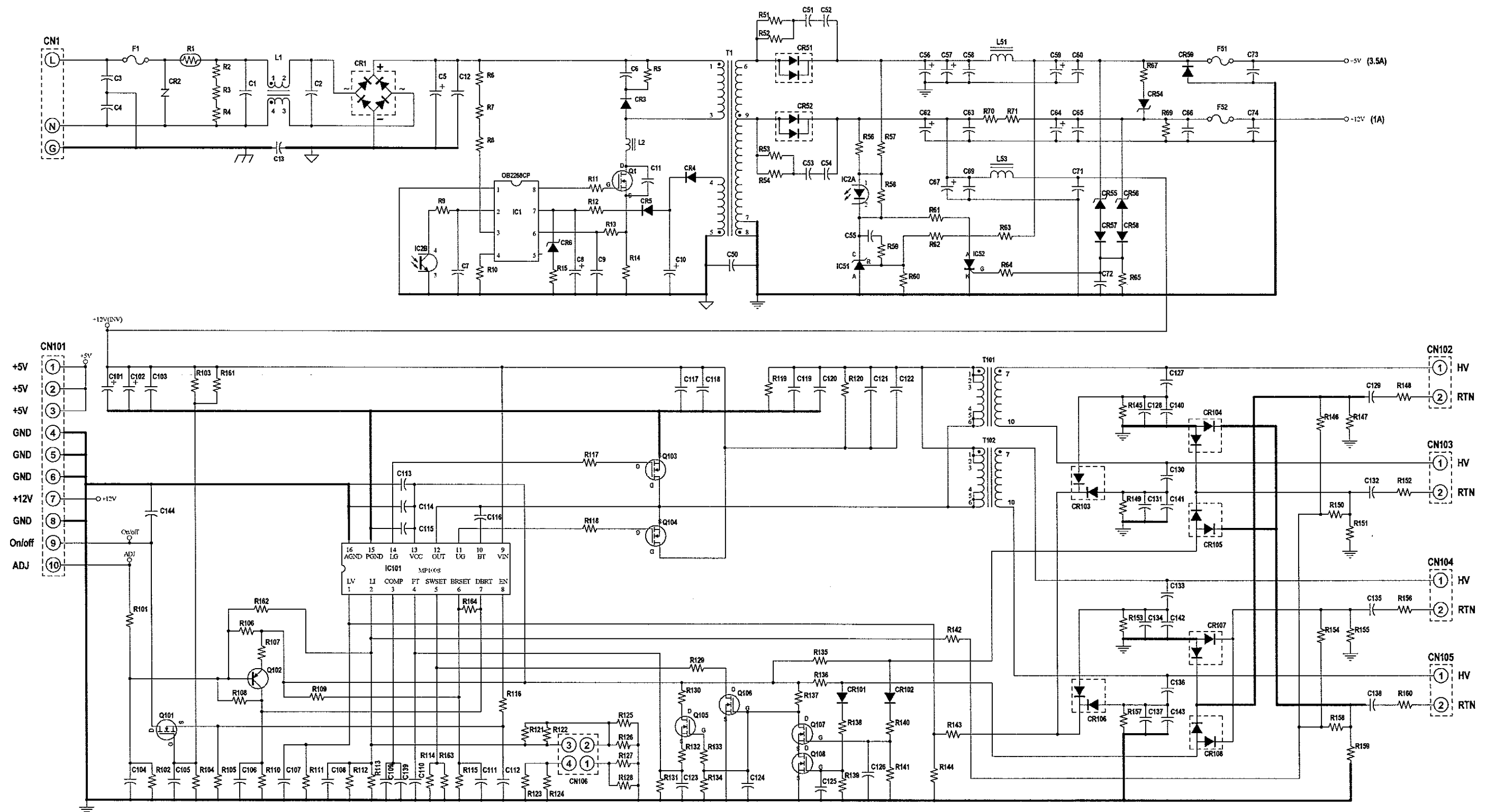
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No.	圖號・DWG.No.	名稱・NAME	數QU:	材 質・MATERIAL	處 理・TREATMENT	備 考・REMARK
設計・DESIGN	SouFu Chin	日期 DATE	4/1/07	名稱 TITLE	SCHEMATIC DIAGRAM	
製圖・DRAWING	Wendy Chiu	日期 DATE	Apr./27/07	型 式 MODEL	B432T	
檢圖・CHECKED		日期 DATE	/ /	比例 SCALE	×	單位 UNIT
承認・APPVD	Frank. 11/2/07	日期 DATE	5/4/07	×	第三角法 THIRD ANGLE PROJECTION	
承認・APPVD		日期 DATE	/ /	圖 號・DWG.No.		日期・DATE
 TDK 台灣東電化股份有限公司 TDK TAIWAN CORP.				3DA01B432T		頁・PAGE 5/4/07 1/1