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PREPARED BY/擬稿		■ RD (机构课)															

*JL321/371/401-
XP2*

Service Manual

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1. Precautions and Safety Notices

Prior to using this service manual, please ensure that you have carefully followed all the procedures outlined in the user's manual for this product.

- (1)** Read all of these instructions.
- (2)** Save these instructions.
- (3)** Follow all warnings and instructions marked on the product.
- (4)** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners, use a damp cloth for cleaning.
- (5)** Do not use this product near water.
- (6)** Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
- (7)** Do not tear up the EMI label, if the label has been destroyed, that must to past same size label on the same position.
- (8)** Slots and openings in the cabinet and the back or bottom are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating, those openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation less proper ventilation is provided.
- (9)** This products should be operated from the type of power source indicated on the marketin label. If you are not sure of the type of power available, consult your dealer or local power company
- (10)** This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature, if you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.
- (11)** Pay attention to the code which connects with apheliotropism board of inside panel. and don't hook it.
- (12)** Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- (13)** If an extension cord is used with this product, make sure that the total of the ampere ratings on the product plugged into the extension cord to the waplugged into outlet does not exceed 15 ampere.
- (14)** Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- (15)** Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to service personnel.
- (16)** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions :
 - a.** When the power cord or plug is damaged or frayed.
 - b.** If liquid has been spilled into the product.
 - c.** If the product has been exposed to rain or water.
 - d.** If the product does not operate normally, when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extension work by a qualified technician to restore the product to normal operation.
 - e.** If the product has been dropped or the cabinet has been damaged.
 - f.** If the product exhibits a distinct change in performance, indicating a need for service.

2. Specification

JL321 panel specification:

Item	Specifications
Display pixels	1366 (H) x 768 (V) pixels (1 pixel = 1 RGB cells)
Display Area	714.96mm (H) x 404.6mm (V)
Pixel Pitch	0.1730mm (H) x 0.5190mm (V)
Display Colors	16.77M
Pixel Arrangement	R+G+B vertical stripe
Brightness	550cd/m ² typical
Contrast Ratio	1200:1 typical at CR $\geq$ 10
Viewing Angle	176 (H)/ 176(V) Typical
Color Chromaticity (CIE)	White: x = 0.285 , y = 0.293
Frame Rate	50/60Hz
Response Time	6.5ms typical
Surface Treatment	Anti-Glare coating(Haze 25%),Hard coating(3H) Anti-reflective coating < 2% reflecting

JL371 panel specification:

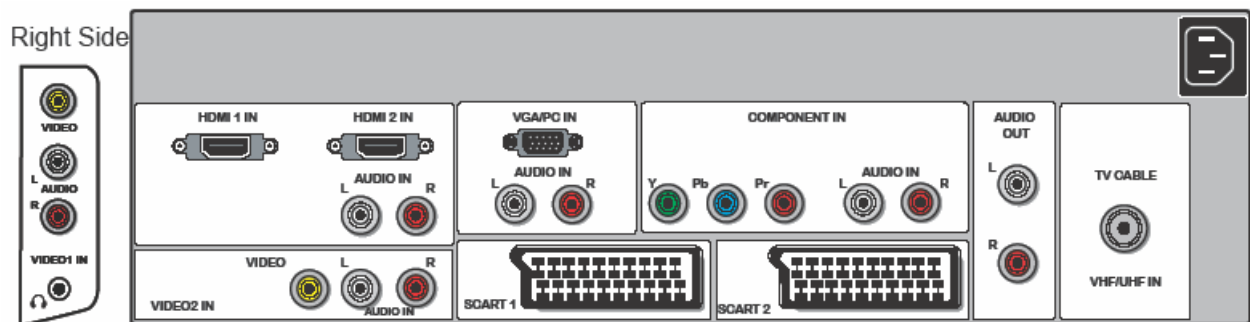
Item	Specifications
Panel Name	AUO
Panel Model No.	T370XW01
Display pixels	1366 (H) x 768 (V) pixels (1 pixel = 1 RGB cells)
Display Area	819.36mm (H) x 460.89mm (V)
Pixel Pitch	0.6mm
Display Colors	16.7M
Pixel Arrangement	R+G+B vertical stripe
Brightness	500cd/m ² typical
Contrast Ratio	1000:1 typical at CR $\geq$ 10
Viewing Angle	176 (H)/ 176(V) Typical
Color Chromaticity (CIE)	White: X = 0.280 $\pm$ 3% , Y = 0.290 $\pm$ 3%
Response Time	8ms (Gray to Gray)
Surface Treatment	Hard-Coating (3H), Anti-Glare, Reflectance < 2%

JL401 panel specification:

Item	Specifications
Panel Name	Samsung

Panel Model No.	LTA400W2-L01
Display pixels	1366 (H) x 768 (V) pixels (1 pixel = 1 RGB cells)
Display Area	885.168mm (H) x 497.664mm (V)
Pixel Pitch	0.648 (H) x 0.216 (W)
Display Colors	16.7M
Pixel Arrangement	R+G+B vertical stripe
Brightness	500cd/m ² typical
Contrast Ratio	800:1 typical at CR $\geq$ 10
Viewing Angle	$\pm 85^\circ$ (H), $\pm 85^\circ$ (V) Typical
Color Chromaticity (CIE)	White: X = 0.280 , Y = 0.290 typical
Response Time	10ms
Surface Treatment	Hard-Coating (3H)

INPUT Source :

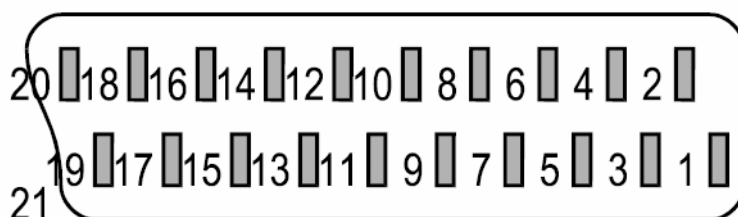


Inputs & Outputs	Signals	Video Format	Connector types	
TV	Analog TV	PAL	IEC Type	TV
VIDEO1	Video + L/R Audio + Earphone Out	CVBS	RCA	
VIDEO2	Video + L/R Audio	CVBS	RCA	
SCART1	Audio L/R in/out, CVBS in/out, S-Video, RGB	Scart 21Pin	VIDEO3 (Scart1)	SCART1
SCART2	Audio L/R in/out, CVBS in, S-Video, RGB	Scart 21Pin	VIDEO4 (Scart2)	SCART2
YPbPr	Component (Y, Pb/Cb, Pr/Cr) + L/R Audio	480i, 480p, 720p, 1080i	RCA	YPbPr
HDMI1	HDMI	Digital RGB + Digital Audio	HDMI 19 Pin	HDMI1

HDMI2	HDMI	Digital RGB +Digital Audio	HDMI 19 Pin	HDMI2
VGA	VGA+ L/R Earphone	Analog RGB	D-SUB 15 Pin	VGA
AUDIO OUT	L/R Audio		RCA	STEREO
AC IN	AC Power IN	AC 100~240V	YC14	AC IN

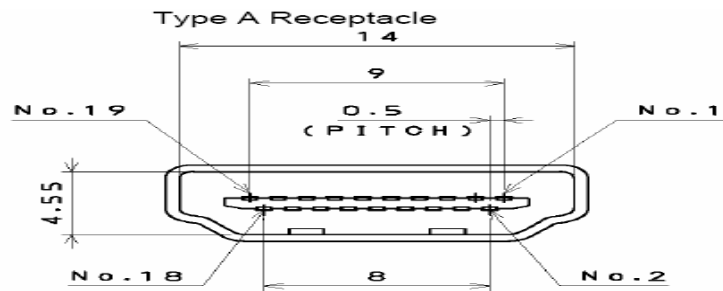
Note:

A. SCART connector



Pin Number	Pin Name	Signal Level	Impedance
1	Audio Output, Right	0.5V RMS	<1 k Ω
2	Audio Input, Right	0.5V RMS	<1 k Ω
3	Audio Output, Left	0.5V RMS	<1 k Ω
4	Ground, Audio	-	-
5	Ground, Blue	-	-
6	Audio Input, Left	0.5V RMS	<1 k Ω
7	Blue Input	0.7V	75 Ω
8	Function Select (A/V Control)	High (9.5-12V) – A/V Mode, Mid (5-8V) – Wide-screen, Low (0-2V) – TV Mode	>10 k Ω
9	Ground, Green	-	-
10	Comms Data 2	-	-
11	Green Input	0.7V	75 Ω
12	Comms Data 1	-	-
13	Ground, Red	-	-
14	Ground, blanking	-	-
15	Red Input	0.7V	75 Ω
16	RGB switching Control	High (1-3V) – RGB, Low (0-0.4) – Composite	75 Ω
17	Ground, Video input & output	-	-
18	Ground, RGB Switching control	-	-
19	Video Output, composite	1V including sync	75 Ω
20	Video Input, composite	1V including sync	75 Ω
21	Common Ground, shield	-	-

B. HDMI connector is a type A receptacle for video/audio mode.



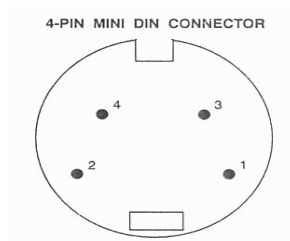
1. TMDS Data 2+	9. TMDS Data 0-	17. CEC/GND
2. TMDS Data 2 shield	10. Clock +	18. +5V Power
3. TMDS Data 2-	11. Clock shield	19. Hot Plug Detect
4. TMDS Data 1+	12. Clock -	
5. TMDS Data 1 shield	13. CEC	
6. TMDS Data 1-	14. NC	
7. TMDS Data 0+	15. DDC CLK	
8. TMDS Data 0 shield	16. DDC DATA	

C. D-Sub Connector IN. (This function also can provides to HDTV.)

D-Sub type Connector pin assignment		
1. Red Video	6. Red Ground	11. GND
2. Green Video	7. Green Ground	12. SDA For DDC1/2B
3. Blue Video	8. Blue Ground	13. H-sync.
4. GND	9. +5V from PC	14. V-sync.
5. Vdd from PC for DDC	10. Sync. GND	15. SCL For DDC1/2B

D. RCA jacks are all female type.

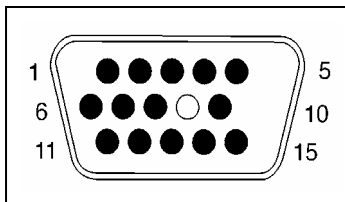
E. Mini DIN CNC 4 Pins (SCN570S3NS00000) for S-video, the pin assignment is described as below:



- 1: Ground
- 2: Ground
- 3: Y
- 4: C

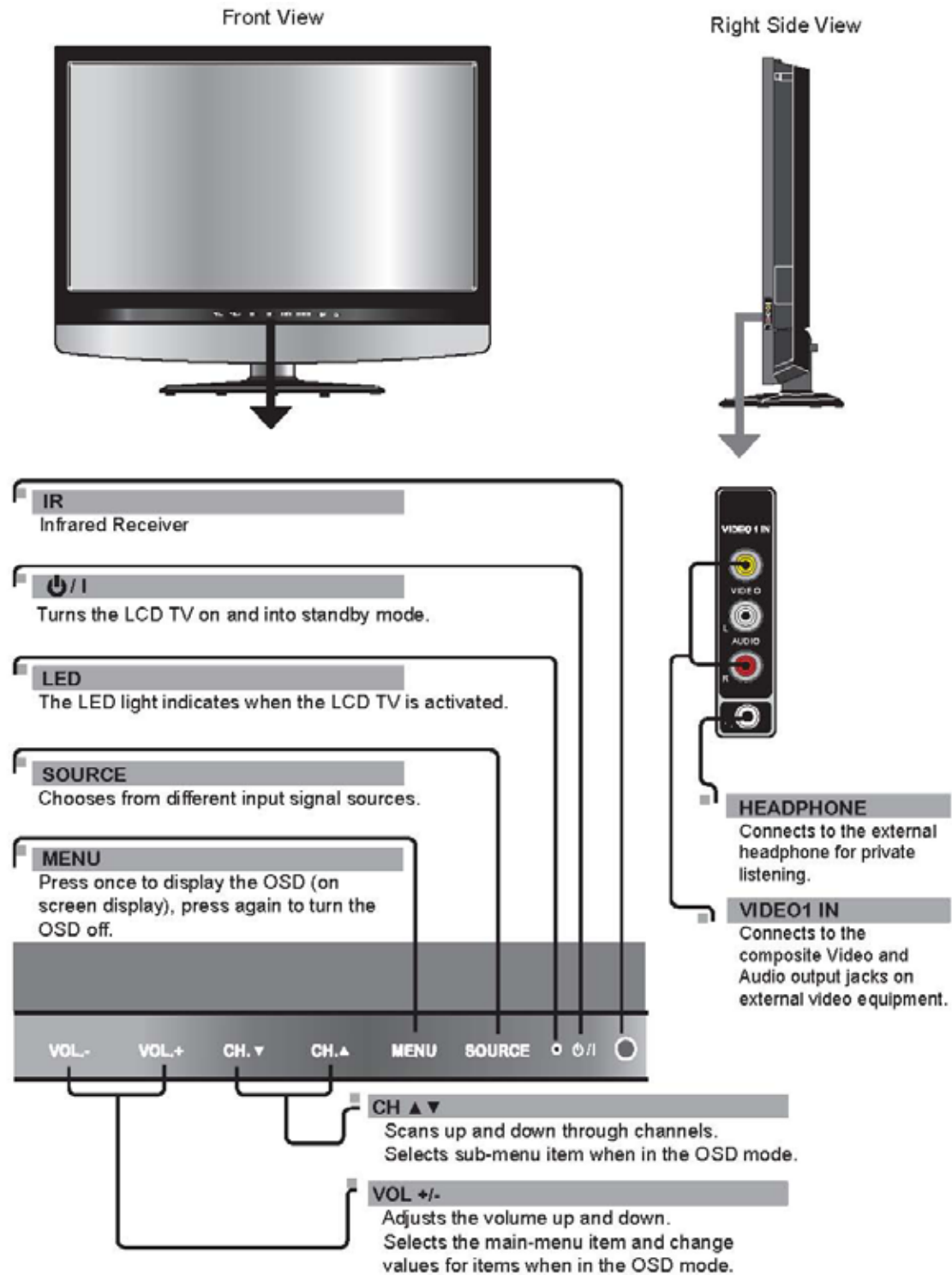
HDMI	
Format	DVI 1.0
Level/Impedance	0.5~3.0Vp-p/100 Ohm (Differential),50 Ohm (Single ending)
TMDS Mode	Single Link
Frequency	Fh = 31~80 kHz Fv = 56~76 Hz
Maximum Pixel Clock	135 MHz
DDC 1/2B	Compliant with Revision 1.0

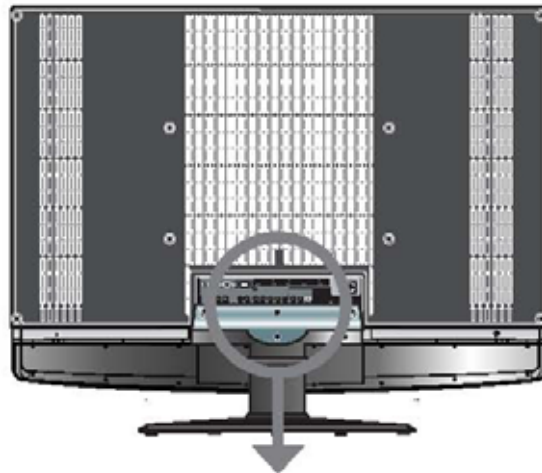
Connector	HDMI x 1			
Analog HD15 PC Signal (RGB)				
Format	R, G, B Analog			
Level/Impedance	0.7Vp-p / 75Ω			
DDC 1/2B	Compliant with Revision 1.0			
Sync	H/V separate 3V TTL level / 1kΩ			
Frequency	Fh = 31~80 kHz Fv = 50~75 Hz			
Maximum Pixel Clock	135 Mhz			
Connector	Mini D-Sub 15 pin (female) x 1			
Video (Composite) CVBS Signal				
Format	NTSC, 4.43NTSC, PAL_M, PAL(B,G,H,D,N), SECAM			
Level / Impedance	1.0Vp-p / 75Ω			
S-Video (Y/C) Signal				
Format	Y, C			
Level / Impedance	Y: 1.0Vp-p / 75Ω C: ± 286 mV/ 75Ω			
Analog HD15 Video Signal (YPbPr/YCbCr)				
Format	Y, Pb, Pr or Y, Cb, Cr			
Level / Impedance	Y: 1.0Vp-p / 75Ω Pb/Cb, Pr/Cr: 0.7 ± 0.035Vp-p / 75Ω			
HDMI Timing				
STANDARD	RESOLUTION	V FREQ Hz	H FREQ kHz	CLK MHz
ATSC, 480i	720x480	60	15.7	27
ATSC, 480p	720x480	60	31.5	27
ATSC, 1080i	1920x1080	60	33.7	74.2
ATSC, 720p	1280x720	60	45.0	74.2
ATSC, 576i	720x576	50	15.6	27
RGB PC Timing				
STANDARD	RESOLUTION	V FREQ Hz	H FREQ kHz	CLK MHz
VGA	640x480	60	31.47	25.16
VGA	640x480	75	37.5	31.5
SVGA	800x600	60	37.88	40
SVGA	800x600	75	46.9	49.5
XGA	1024x768	60	48.36	65.0
XGA	1024x768	75	60.02	78.75
SXGA	1280x1024	60	64	108
SXGA	1280x1024	75	80	135
MAC	640x480	67	35	30.24
Non-VESA	720x400	70	31.5	28

Video & S-Video AV Timing					
STANDARD	RESOLUTION	V FREQ Hz	H FREQ kHz	CLK MHz	
NTSC	525	60	15.734	12.65	
PAL(B,G,H,D,I)	625	50	15.625	14.50	
SECAM	625	50	15.625	14.50	
4.43NTSC	525	60	15.734	12.65	
PAL-M	525	60	15.734	12.65	
PAL-N	625	50	15.625	14.50	
HDTV/Component AV Timing					
SDTV 525i	720x525	60	15.735	27	
SDTV 625i	720x625	50	15.625	27	
SDTV 480p	720x480	60	31.5	27	
HDTV 720p	1280x720	60	50.0	74.2	
HDTV 1080i	1920x1080	60	33.7	74.2	
Power Source	AC100 – 240 V, 60/50 Hz				
Sound Output	10W X2, 8 Ohm.				
Signal Connector Pin Assignment					
					
Pin	Assignment	Pin	Assignment	Pin	Assignmen
1.	Red	6.	Red Ground	11.	Ground
2.	Green	7.	Green Gro und	12.	SDA
3.	Blue	8.	Blue Ground	13.	Horizontal S
4.	Ground	9.	Not Connected	14.	Vertical Sync.
5.	Self Test	10.	Sync. Ground	15.	SCL

3. Front Panel Function Control Description

Operation, Adjust and Programming





VIDEO2 IN

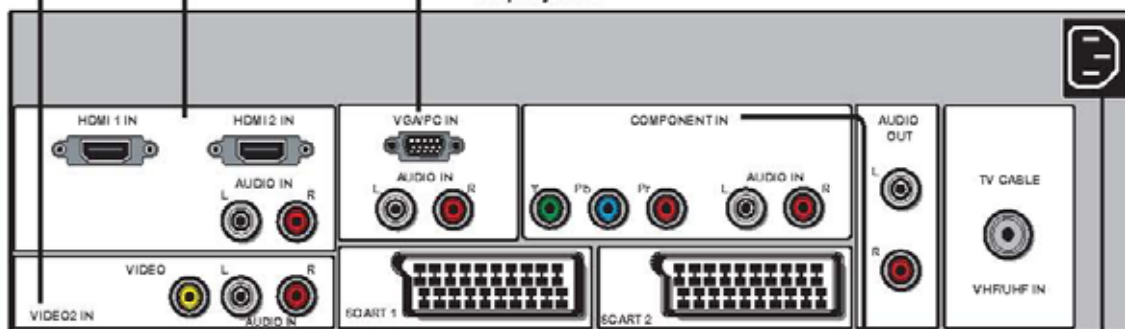
Connects to the composite VIDEO and AUDIO(L/R) output jacks on external video equipment.

HDMI 1/HDMI 2 IN

Connects the all digital AV equipment with HDMI connector. HDMI supports enhanced, high-definition video and two-channel digital audio. The AUDIO(L/R) of HDMI IN is for DVI connection.

VGA IN

Connects the PC, or other AV equipment with VGA and AUDIO(L/R) output jacks.



SCART1/SCART2 IN

Connects a piece of AV equipment with a SCART socket. The SCART interface offers multiple signals(RGB, AV) with audio input/output between the TV and external video equipment.

COMPONENT IN

Connects to the DVD player, Digital Set-Top-Box, or other AV equipment with component(YPbPr) video and audio output jacks.

AUDIO OUT

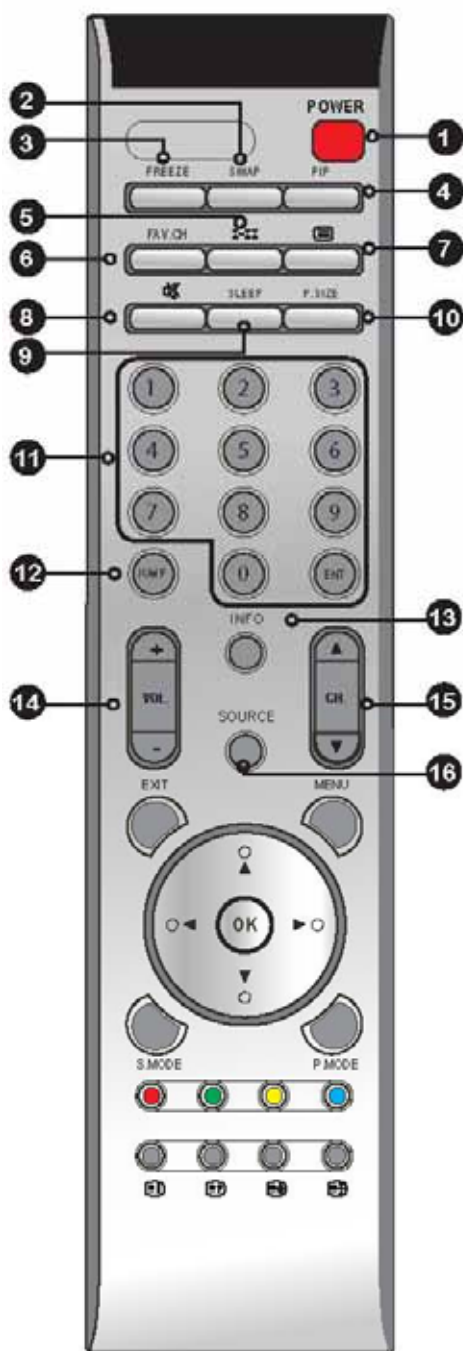
Connects to the AUDIO(L/R) input jacks on AV equipment.

TV CABLE

Connects RF input from VHF/UHF antenna or cable.

AC IN

Connects to the AC power cord.



- | | | |
|-----------|----------------|---|
| 1 | POWER | Turns the LCD TV on and off. |
| 2 | SWAP | Swaps between the main and sub window in PIP/POP mode. |
| 3 | FREEZE | Pressing FREEZE to freeze the current picture, press again to restore the picture. |
| 4 | PIP | Turns PIP/POP on and off. |
| 5 | I-II | Cycles through the TV sound options (NICAM) : MONO/DUAL/STEREO |
| 6 | FAV.CH | Pressing FAV.CH displays favorite channels. |
| 7 | | Turns on and off the Teletext function. |
| 8 | | Mutes and restores the audio |
| 9 | SLEEP | Cycles through the LCD TV sleep timer: OFF/30/60/90/120 mins |
| 10 | P.SIZE | Cycles through Widescreen mode settings :NORMAL /FULLWIDE/ZOOM/ AUTO |
| 11 | 0-9/ENT | Pressing a number selects a channel. Following selection, pressing ENT activates the channel, or channel activates automatically in 3 seconds. |
| 12 | JUMP | Returns to previously selected channel. |
| 13 | INFO | Pressing once displays a variety of information such as the current channel and the input source. |
| 14 | VOL.+/- | Increases and decreases volume. |
| 15 | CH.▲▼ | Scans up and down the channels. |
| 16 | SOURCE | Pressing SOURCE displays the source list, use ▲▼ to select the video equipment connected to the video inputs of your LCD TV : TV/VIDEO1/VIDEO2/ VIDEO3/VIDEO4/VIDEO5/VIDEO6/ VIDEO7/COMPUTER |



"Not all region supports Teletext-please check with your program service provider"



- | | | |
|-----------|--------------------------|--|
| 17 | EXIT | Exits the OSD menu. |
| 18 | MENU | Displays the OSD menu on the screen. |
| 19 | ▲▼▶◀
OK | Cycles through OSD options and selects individual menu items. OK confirms option settings. |
| 20 | S.MODE | Selects sound effect options: Surround/Live/Dance/Techno/Classic/Soft/Rock/Pop/Off. |
| 21 | P.MODE | Selects picture mode: Vivid/High-Bright/Cinema/Sport/User |
| 22 | | Accesses the TELETEXT items or corresponding pages. |
| 23 | | Displays the main index in TELETEXT mode. |
| 24 | | Displays the top, bottom or all of page, to easily read in TELETEXT mode. |
| 25 | | Freezes a multi-page passage on screen in TELETEXT mode. |
| 26 | | Reveals hidden information such as the answer to a quiz in TELETEXT mode. |



Effective range:

The remote can control the LCD TV from up to 5m away, if pointed directly at the receiver.

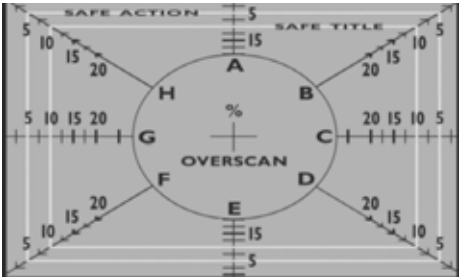
The operation of each OSD controls is described as following table:

Menu	Options	Sub-Options	Function and Description
VIDEO 	Picture Mode	Vivid →Standard →Cinema →Sport→User.	Press repeatedly for different picture modes: Vivid →High-Bright→Cinema→Sport →User.
	Contrast	0...100 (80)	Fine tune the contrast.
	Brightness	0...100 (50)	Fine tune the Bright
	Auto Setting (only for VGA)	Press OK button	Press OK button to automatically adjust the display setting to optimize performance based on the VGA mode.
	Phase (only for VGA)	0...100	Control the signal phase to improve focus clarity and image stability based on the VGA mode.
	Saturation	0...100 (70)	Fine tune the Saturation.
	Hue	-30...+30 (0)	Fine tune the Hue
	Sharpness	0...7 (4)	Fine tune the Sharpness
	Manual Clock (only for VGA)		Control the width of the picture based on the VGA.
	Display Adjustment (only for VGA)	H Position	Adjust the position of the picture left and right in the window.
		V Position	Adjust the position of the picture up and down in the window.
	Color Temperature	Cool	Set the color temperature type.
		Nature	
		Warm	
		User	Red/Green/Blue: 0...255
	Noise Reduction	Strong→Middle→Low→Off	Strong→Middle→Low→Off
AUDIO 	Bass	0...100 (50)	Fine tune the bass value.
	Treble	0...100 (50)	Fine tune the treble value.
	Balance	-50...+50 (0)	Fine tune the balance value.
	Sound Effect	Surround	Select the preset effec mode to match your music type and achieve stunning effects.
		Live	
		Dance	
		Techno	
		Classic	
		Soft	
		Rock	
		POP	
		Off	Close this function.
SETUP 	Parental	Channel Lock	Press ◀▶ buttons to select the channel you want to lock.
		Videl Lock	Press ◀▶ buttons to select the input video you want to lock.
		Change Password	Press OK button to display the password confirm menu. And use 0-9 keys to enter a new four-digit password, and then confirm the new password by entering it again.
	Language	English/French/Ara bic/Russian/Italian/ Portuguese/Turkish /Persian	Set on-the-screen language.

TV TV	Osd Transparent	Off/On	Press Off/On to control the translucence of the OSD on-screen menus' background.
	Default	Reset to default value.	Reset the items in the setup menu except the protected-items.
	Region Selection	Western Europe, UK	Use "Left/Right" keys to select the region
	Searching	Auto search channels.	To select and confirm this selection, it will automatically search all recievable channels and put the programs into memory in sequence from low requancy to high frequency
	Manual Scan	Searching the channel by Manual	● Press "OK" to confirm and display a dialog for setting: ● Use "Left" and "Right" to select "PR Start"; Note that the PR before PR Start number won't be overwrote. ● EX: PR Start 5, PR 1~4 will be kept as usual.
	Update Search		● Use "up" or "down" key to highlight the item. ● Use "enter" to Start Update Search. ● Press "enter" to end the search and return.
	Program Edit	Edit the channel name.	● Use "up" or "down" to select Channel Use "enter" to confirm,and a sub menu below comes up ● Use "up" and "down" to select change property,use "enter" to confirm edit it. Select "Store" and push "enter" to exit.
	Favorite	Edit/Delete/Empty/ New	Press Ok key to display Favorite channel list and press ◀▶ to operate Edit/Delect/Empty/ New.

4. Adjusting Procedure

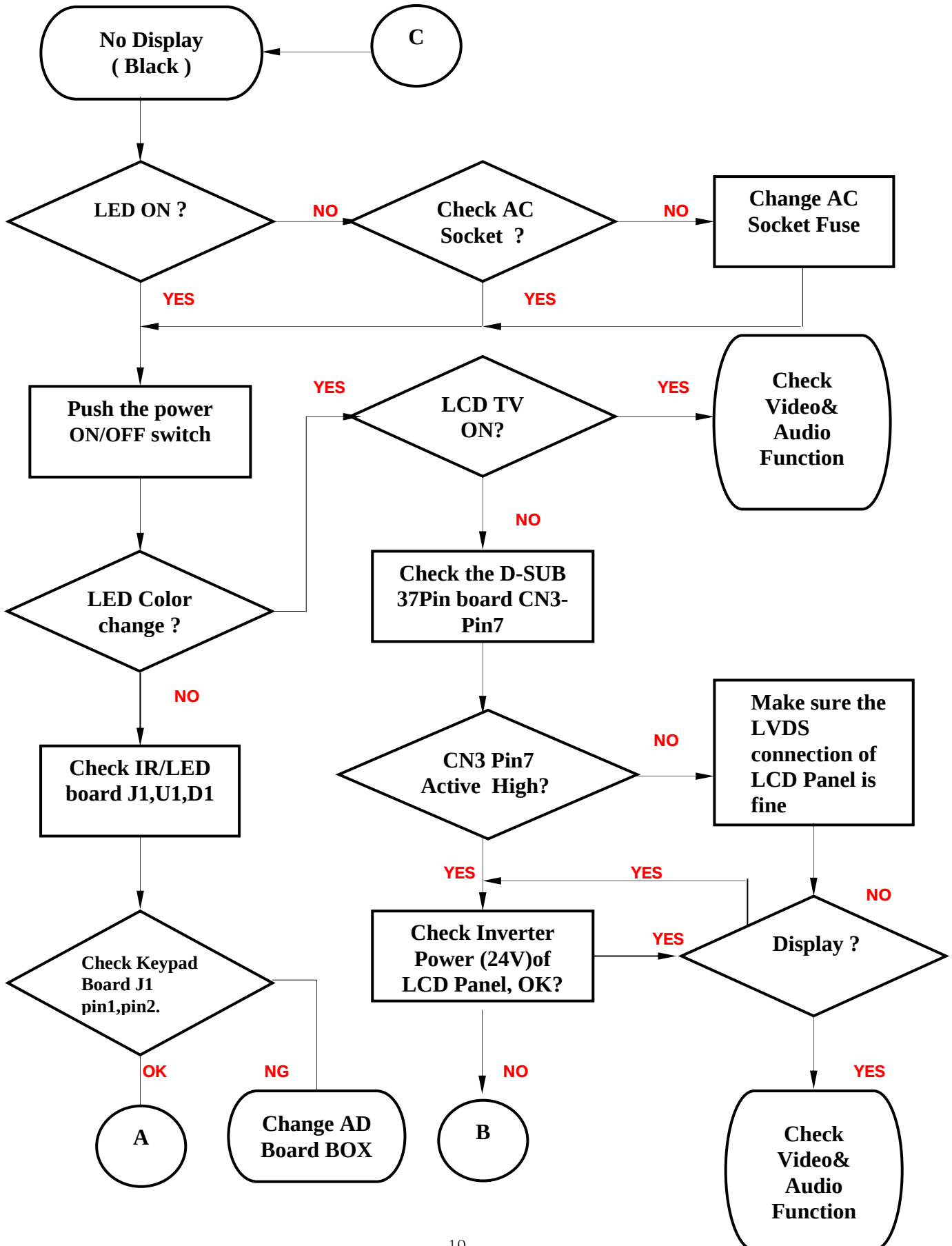
ITEM Program Menu.		Equipment	Requirement	Procedure and SPEC
1	VIDEO adjustment	DVD Video Cable	Play DVD Set DVD to interlaced output	Screen is clear and fluent
2	S-VIDEO	DVD S-Video Cable	Play DVD Set DVD to interlaced output	Screen is clear and fluent
3	DVD (Y,Cb,Cr) 480i	DVD Component Cable	Play DVD(Y,Cr,Cb) Play DVD Set DVD to interlaced output	Screen is clear and fluent
4	DVD (Y,Pb,Pr) 480p/720p/1080i	DVD Component Cable 720p/1080i DVD Player Samsung HD-931	Play DVD(Y,Pr,Pb) Set the DVD to progressive output	Screen is clear and fluent
5	HDTV (Y,Pb,Pr) 720p/1080i	HDTV Receiver ATSC HDTV Tuner SAMSUNG SIR-T165 BS Tuner: Panasonic TU-BHD300 Component Cable	Play HDTV (Y,Pr,Pb)	Screen is clear and fluent D-VHS Digital HDTV Video Cassette Recorder JVC HM-DH30000U Panasonic NV-DH2
6	VGA/HDMI	PC VGA Cable DVI Cable	PC Mode	1. Each Mode can display normally ◦ If there is a specific Mode that is not appropriate after switching ◦ press Auto Adjust can automated adjust to appropriate screen. 2. Confirm PC can automated identify the model of PDP.
7	VGA	TV BOX VGA Cable		Utilize external-connected TV BOX, watching the TV program; the screen is clear and fluent.

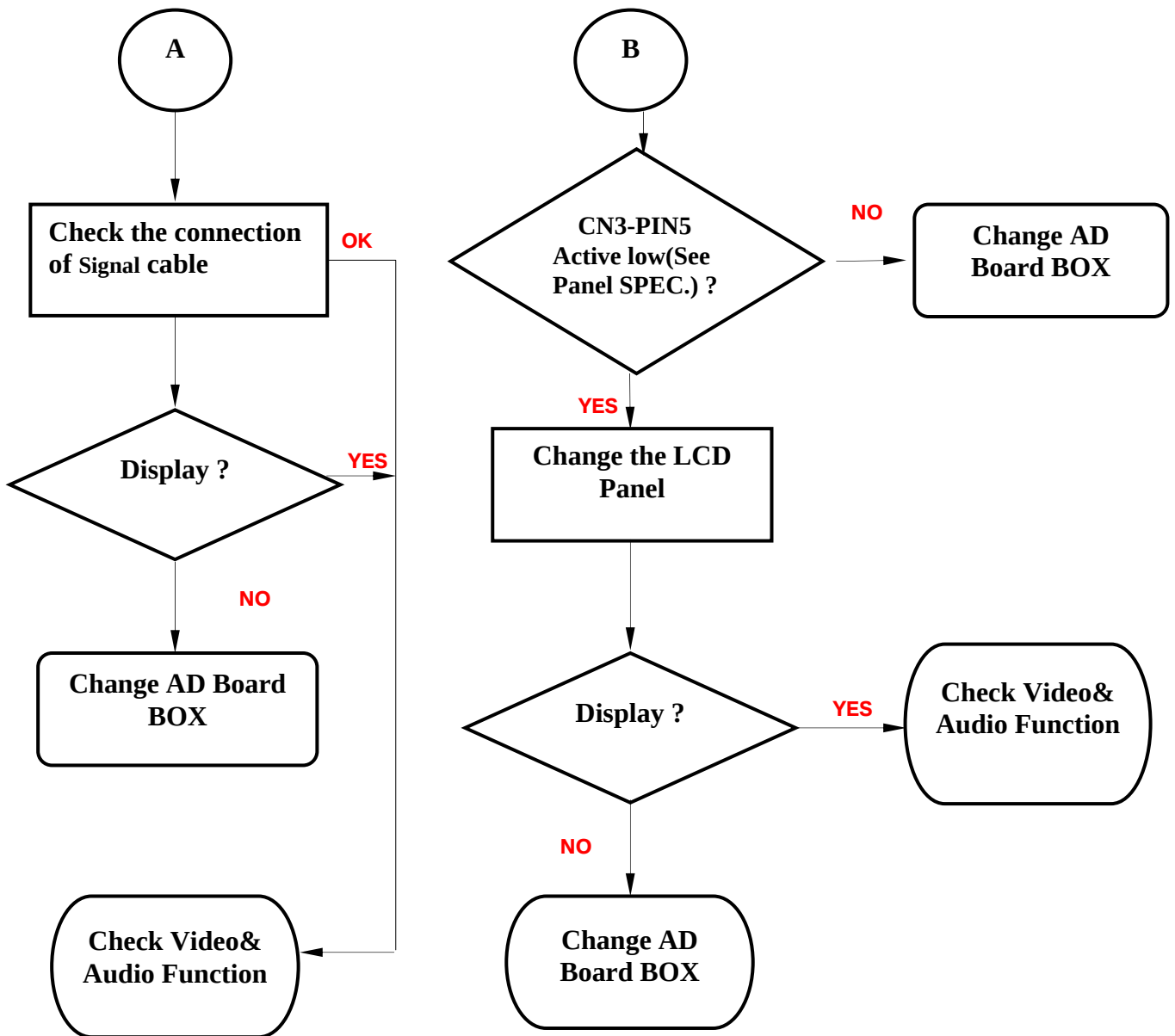
8	WINDOWS. OVERSCAN (6%)	DVD S-Video Cable Video Cable	Play DVD test disc VIDEO ESSENTIALS Set DVD to interlaced output	1. Select SOURCE then choose VIDEO or SVIDEO. 2. Sending the signal from DVD test disc (eighth paragraph)  3. Watch the screen to check if sees the block screen within SAFE ACTION.
9	NTSC/PAL switch	DVD S-Video Cable Video Cable	Play DVD test disc VIDEO ESSENTIALS Set DVD to interlaced output	1. Select SOURCE then choose VIDEO or S-VIDEO. 2. Sending the signal from DVD test disc (sixth paragraph)  3. Switch DVD to output mode NTSC/PAL, see if there is the action of switch
10	480P/480i switch	DVD Component Cable	Play DVD test disc VIDEO ESSENTIALS Set the DVD to progressive output (P-SCAN)	1. Select SOURCE then choose VIDEO or S-VIDEO. 2. Sending the signal from DVD test disc (sixth paragraph)  3. Switch DVD output mode P-SCN ON/OFF, see if there is the action of switch mode on the screen.(480i/480p).

11	Audio adjustment	Pattern Generator Sound input External connect left-right trumpet(10~15W/4Ω)	Any Pattern	1. Select SOURCE 2. Then press MENU KEY enter AUDIO adjustment item.
12	a. Volume			1. ←,→Key Set the sound volume. 2. Check if the action is normal.
13	b. Treble			1. Press←,→Key Set the high pitch volume 2. Check if the action is normal. 3. The initial value is "16"
	c. Bass			1. Press←,→Key Set the low pitch volume. 2. Check if the action is normal. 3. The initial value is "16"
	d. Balance			1. Press←,→Key Set the balance between left-right trumpet. 2. Check if the action is normal. 3. The initial value is located at middle.
14	Language adjustment			1. Select required language. 2. Initial value is set to English or set upon clients' requirement.

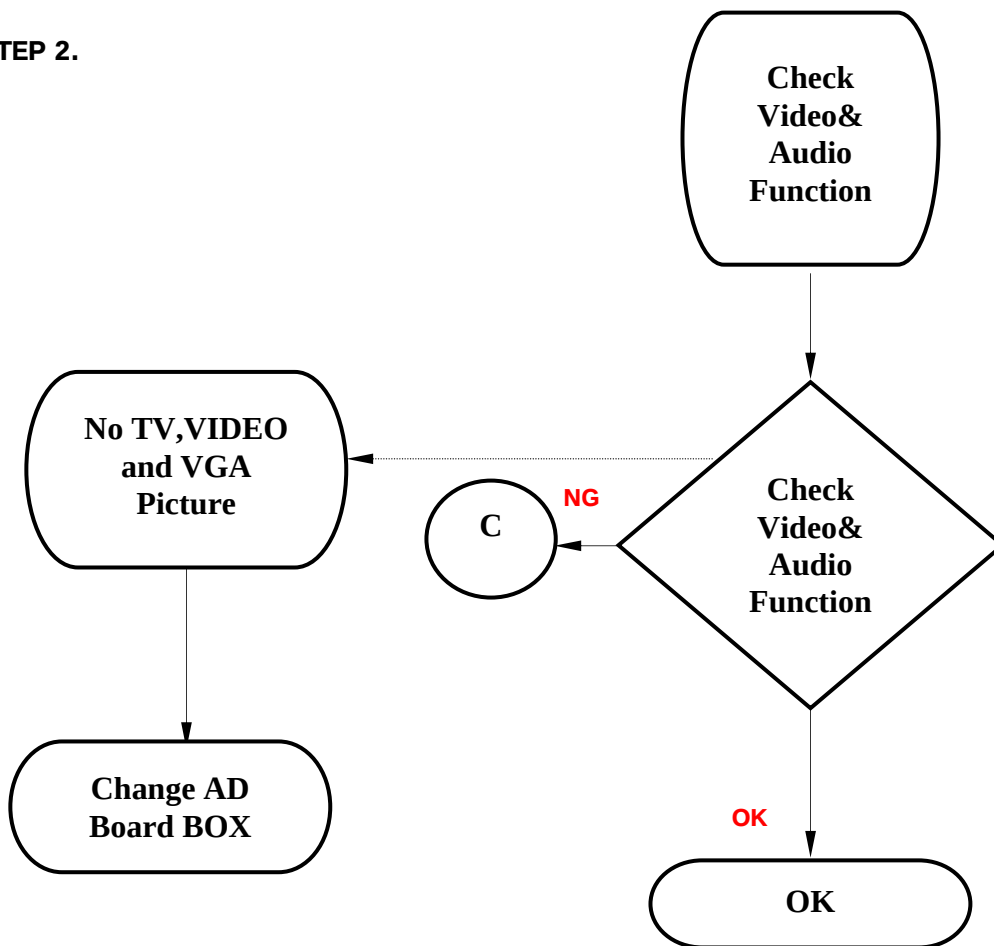
5. Trouble Shooting Flow Chart

STEP 1.

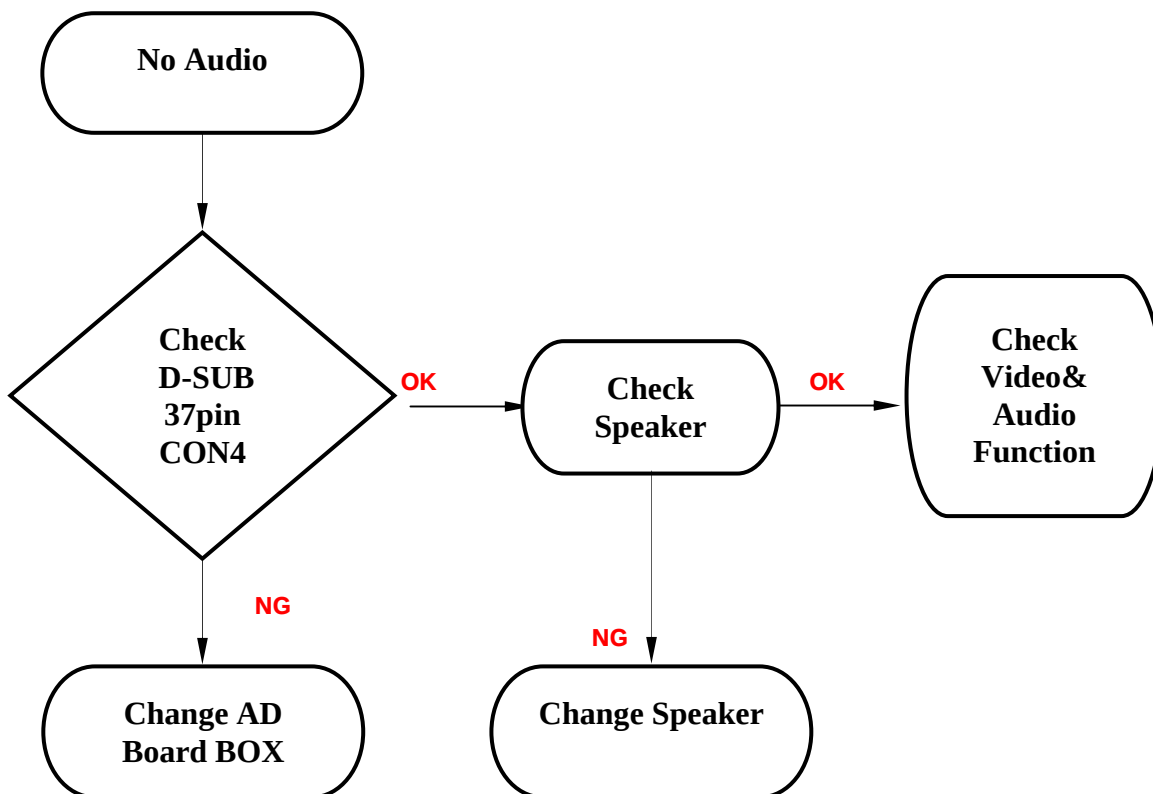




STEP 2.

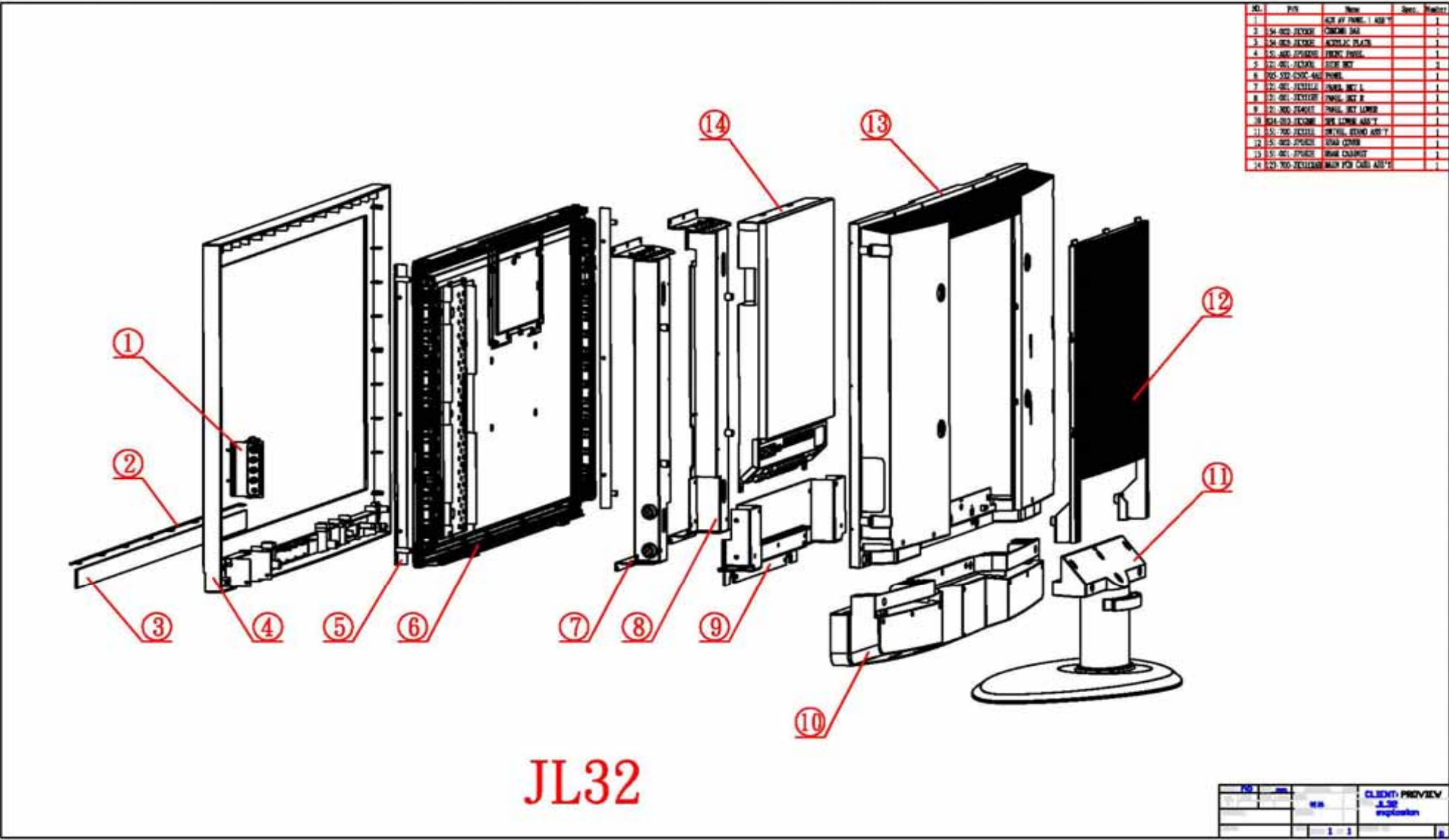


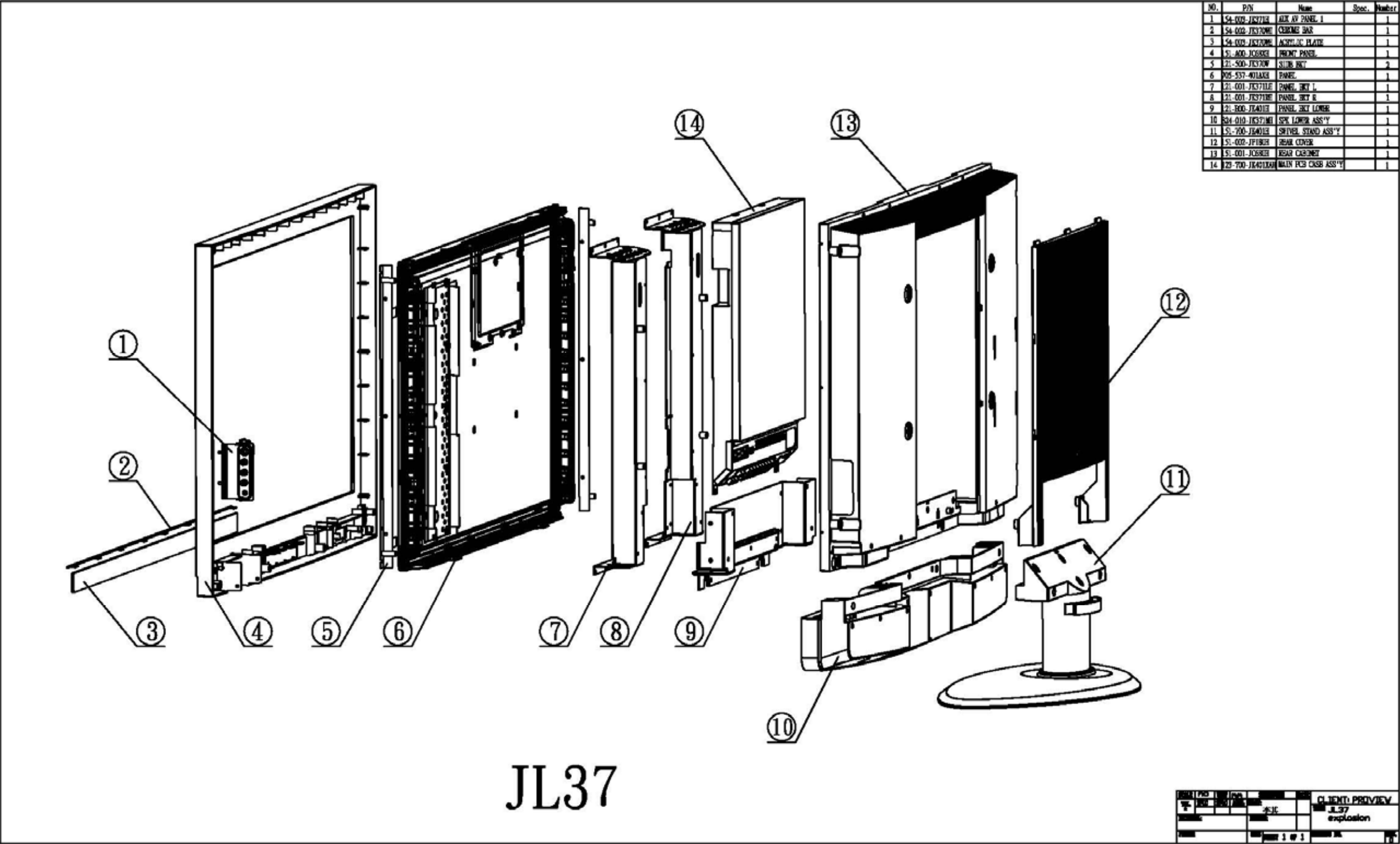
STEP 3.

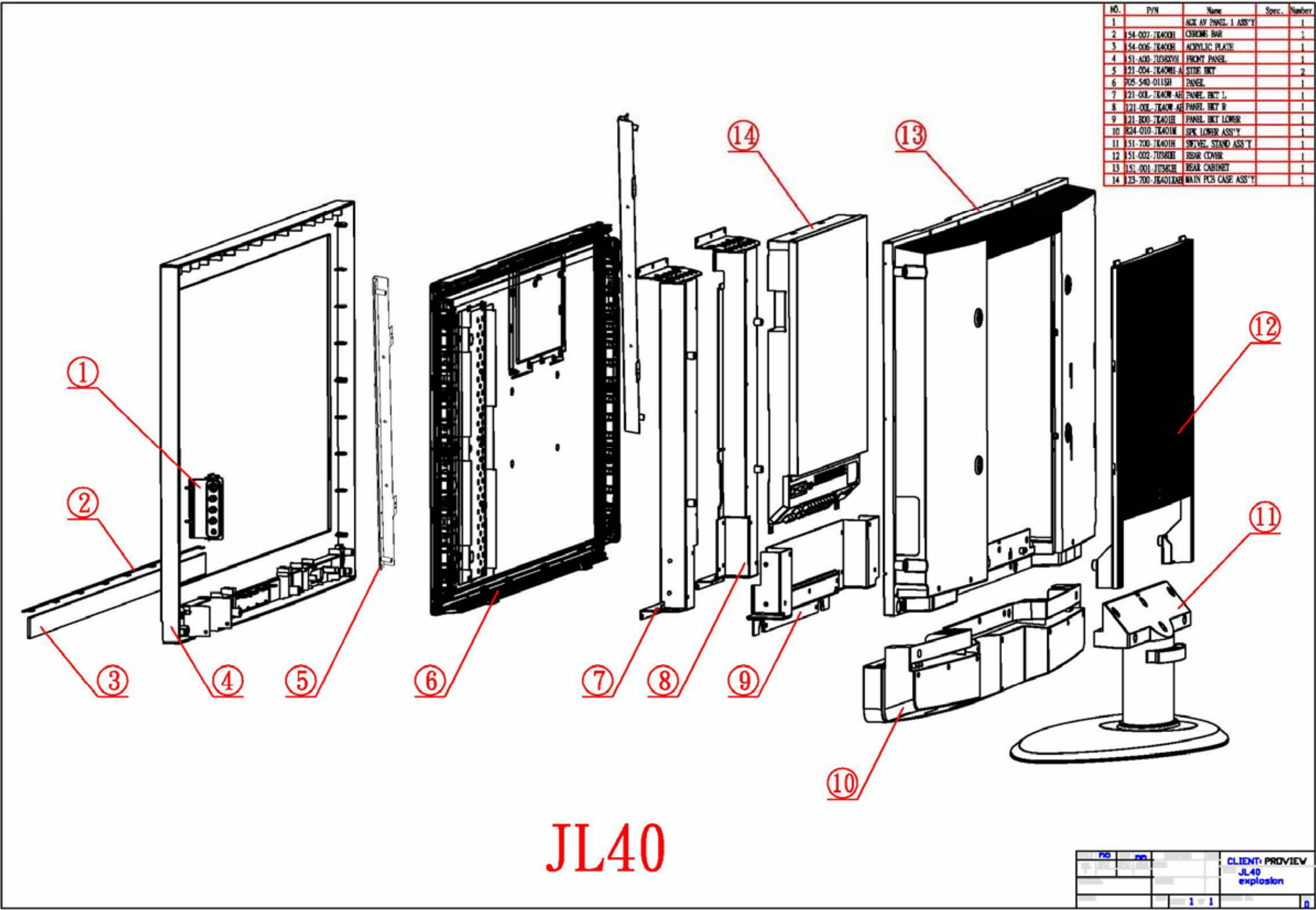


6. Exploded Diagram and Spare Parts List

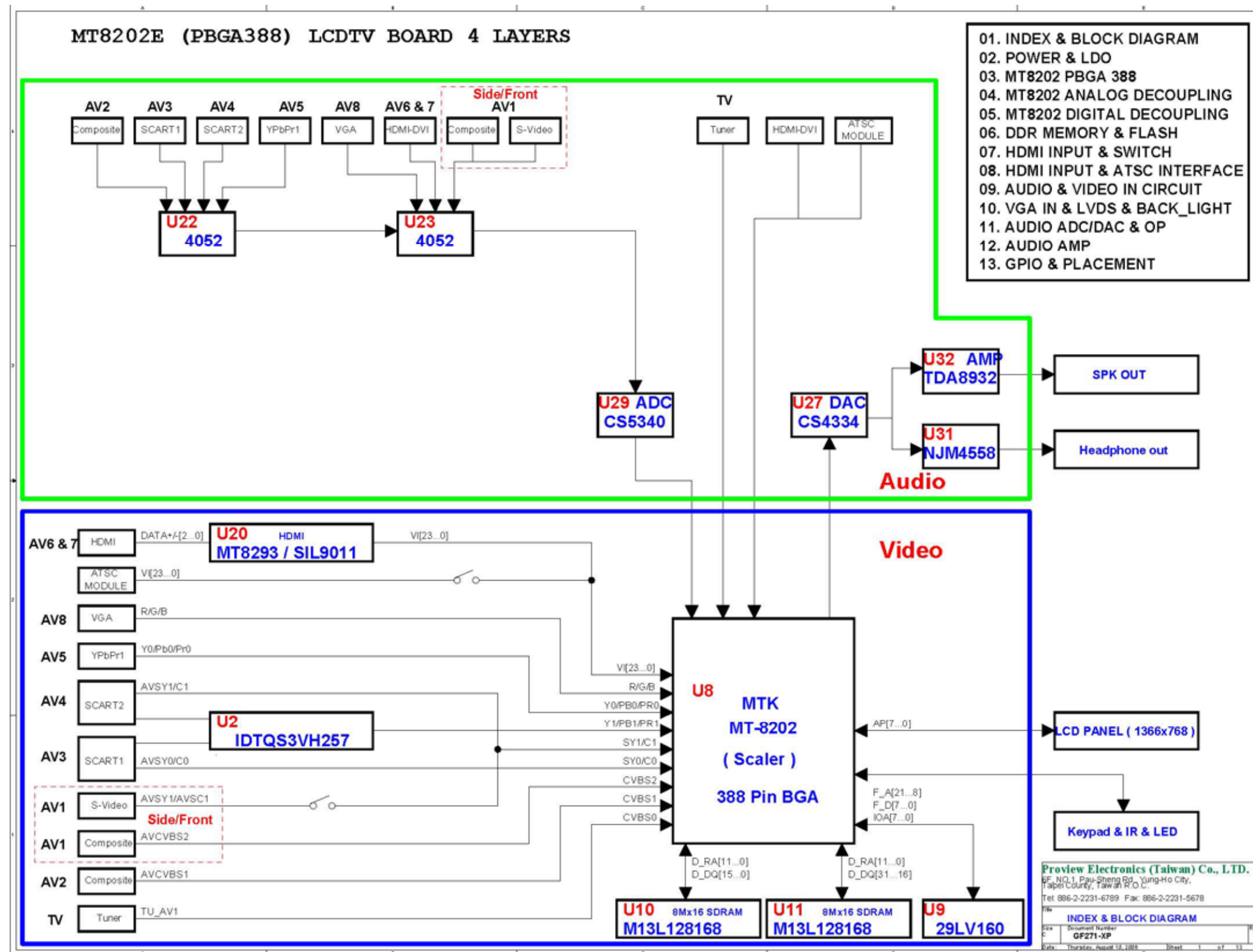
JL321

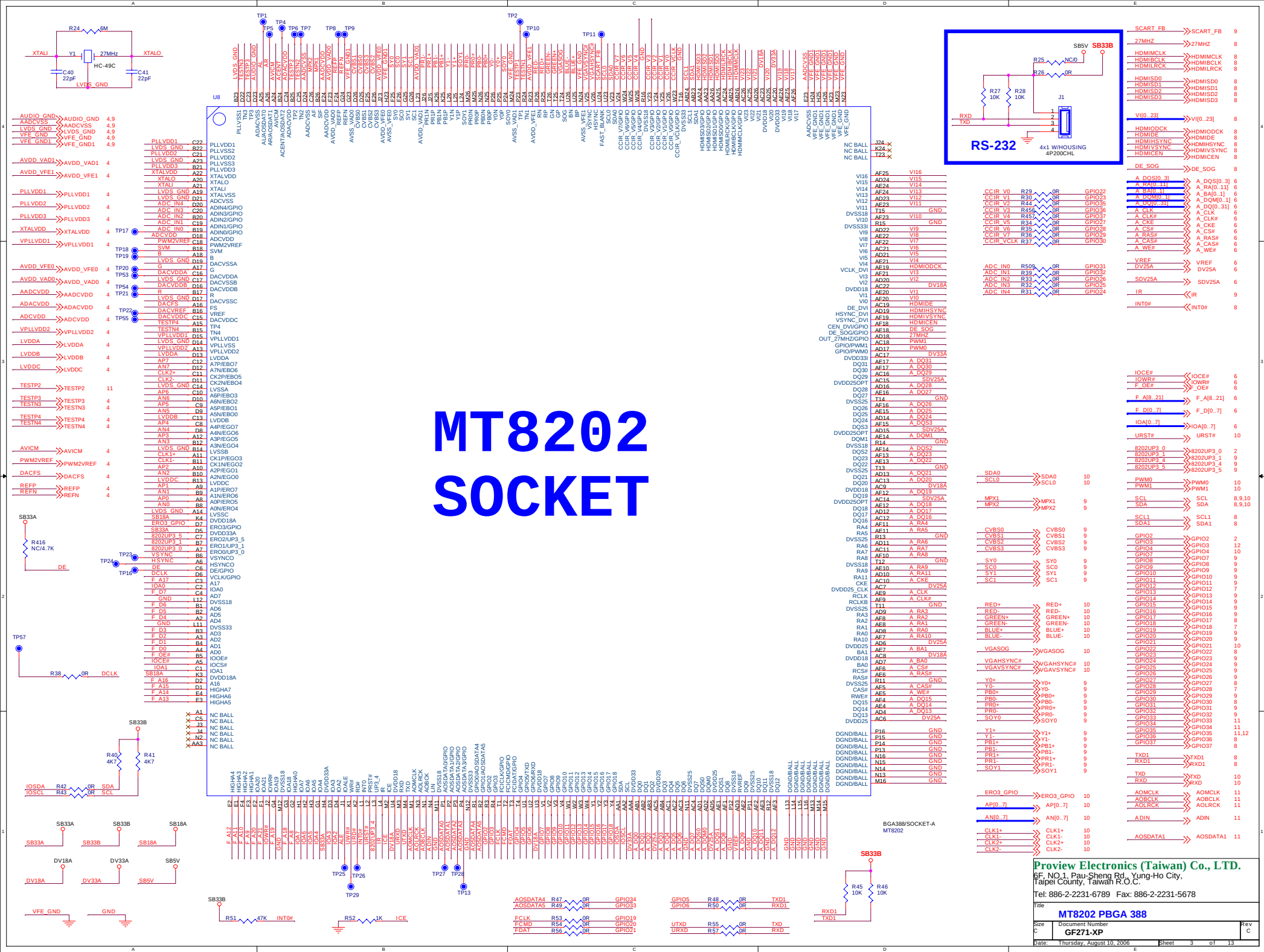






7. Block and Schematic Diagrams





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Title _____

MT8202 PBGA 388

Size	Document Number
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C	GF271-XP
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Date:	Thursday, August 10, 2006	Sheet	3	of	13
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E

STANDBY ANALOG POWER ASB18A

ASB33A

NORMAL VIDEO DAC POWER

NORMAL VIDEO DAC POWER AV33A

NORMAL AUDIO ADC / DAC POWER

ADCV33A

ADCV33A

NORMAL ANALOG POWER

ASB18A V2

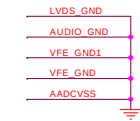
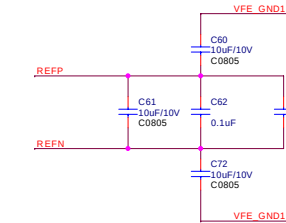
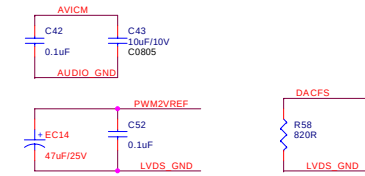
AV18A

AV33A

NORMAL VIDEO ADC POWER

ADCV33A

ADCV18A



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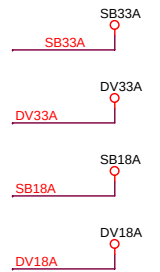
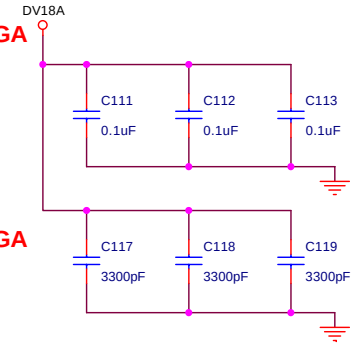
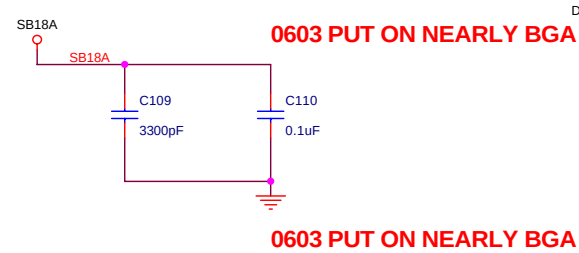
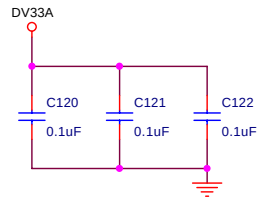
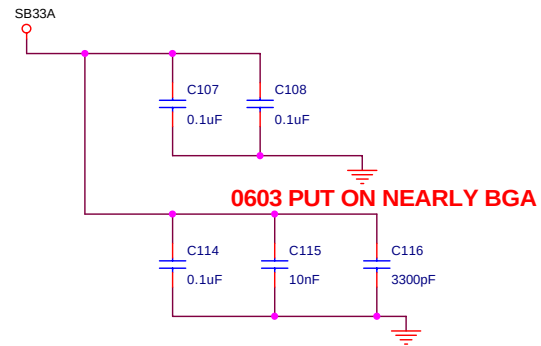
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Size C Document Number GF271-XP Rev C

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MT8202 DIGITAL POWER & DECOUPLING



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Title

MT8202 DECOUPLING -- DIGITAL

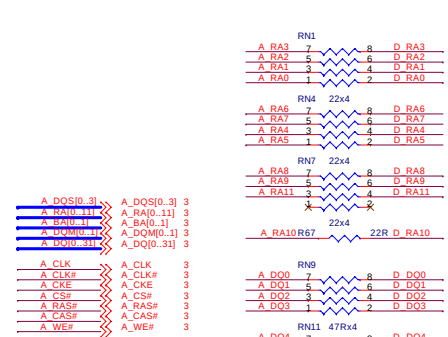
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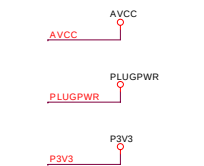
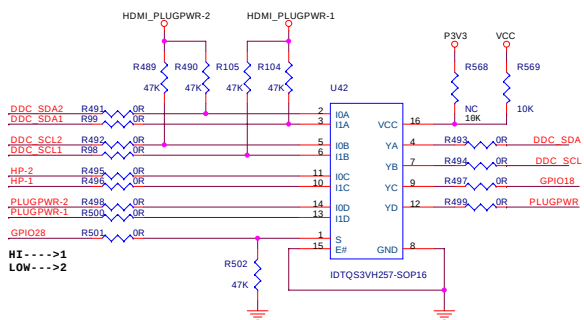
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GF271-XP

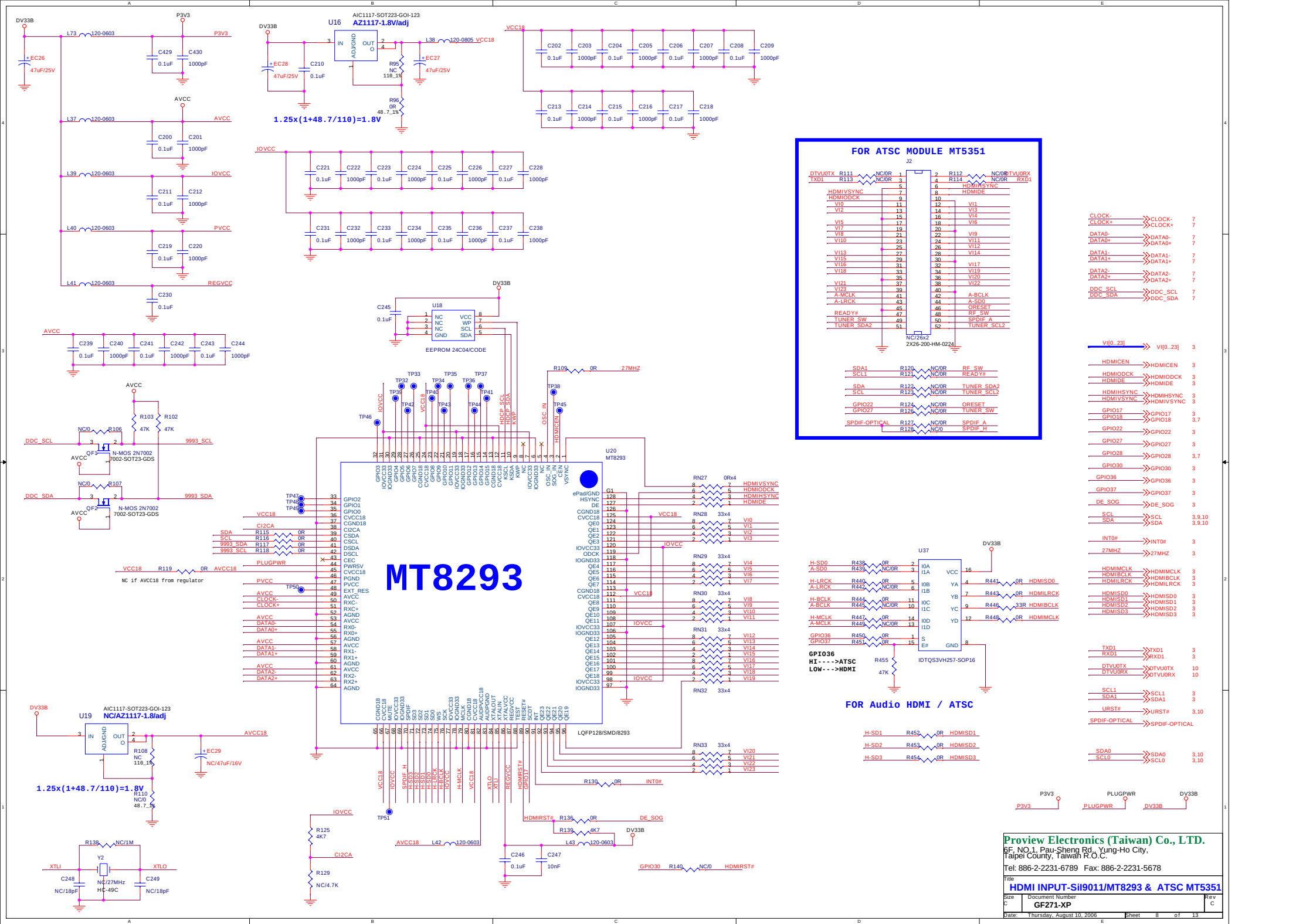
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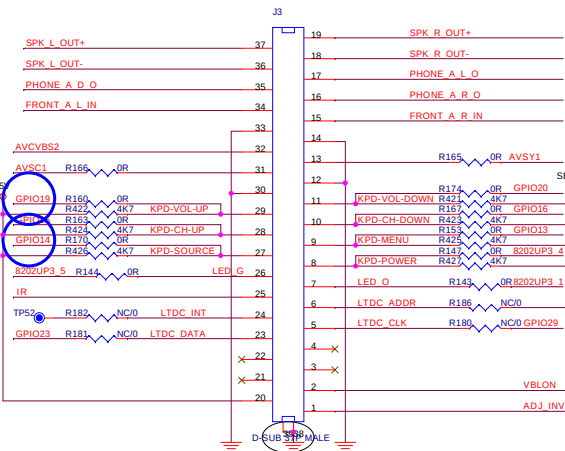
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Sheet 5 of 13

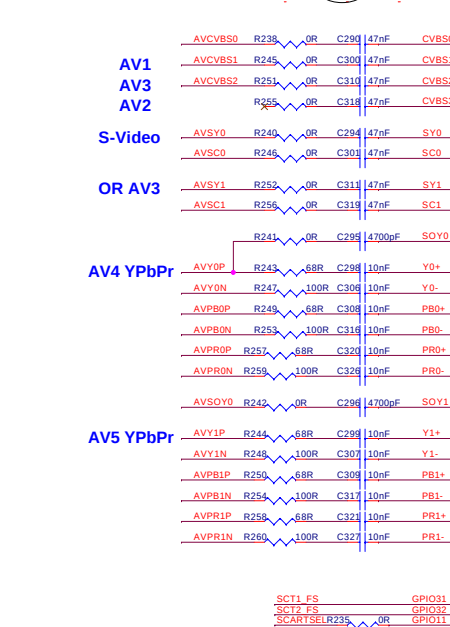
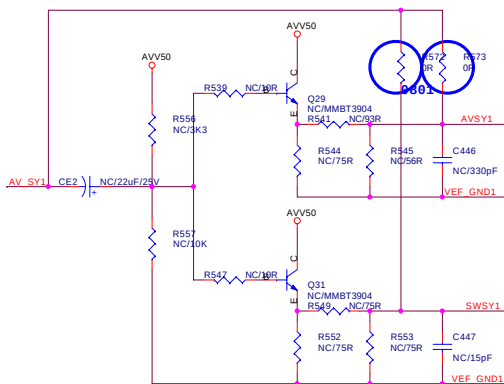
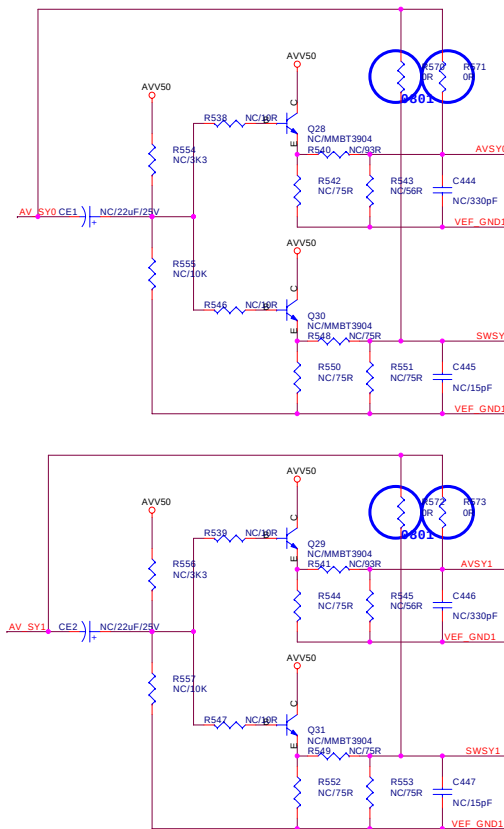
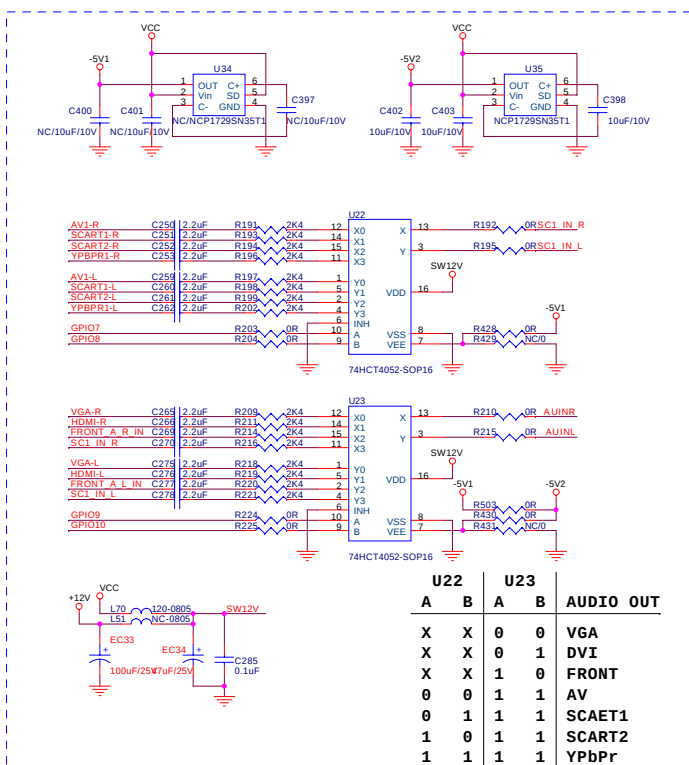




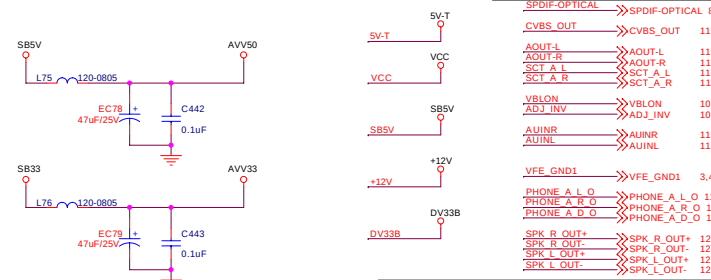
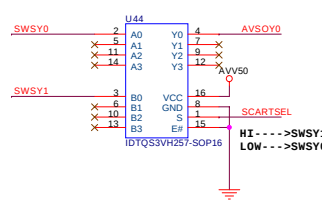
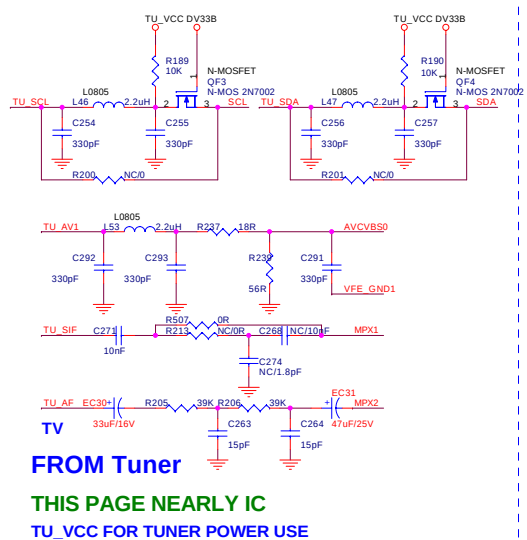




Video1 IN Connector Audio IN Connector Audio OUT Connector ANLAOG TUNER



TO_MTB202			
CVB50	>>	CVB50	3
CVB51	>>	CVB51	3
CVB52	>>	CVB52	3
CVB53	>>	CVB53	3
SY0	>>	SY0	3
SC0	>>	SC0	3
SY1	>>	SY1	3
SC1	>>	SC1	3
Y0+	>>	Y0+	3
PB0+	>>	PB0+	3
PR0	>>	PR0	3
FR0	>>	FR0+	3
SY0Y0	>>	SY0Y0	3
Y1+	>>	Y1+	3
PR1+	>>	PR1+	3
PB1	>>	PB1+	3
PR1+	>>	PR1+	3
SY1	>>	SY1	3
MPX1	>>	MPX1	3
MPX2	>>	MPX2	3
IR	>>	IR	3
8202UP3_1	>>	8202UP3_1	3
8202UP3_4	>>	8202UP3_4	3
8202UP3_5	>>	8202UP3_5	3
GPIO7	>>	GPIO7	3
GPIO8	>>	GPIO8	3
GPIO9	>>	GPIO9	3
GPIO10	>>	GPIO10	3
GPIO11	>>	GPIO11	3
GPIO13	>>	GPIO13	3
GPIO14	>>	GPIO14	3
GPIO15	>>	GPIO15	3
GPIO16	>>	GPIO16	3
GPIO19	>>	GPIO19	3
GPIO20	>>	GPIO20	3
GPIO23	>>	GPIO23	3
GPIO24	>>	GPIO24	3
GPIO25	>>	GPIO25	3
GPIO26	>>	GPIO26	3
GPIO29	>>	GPIO29	3
GPIO31	>>	GPIO31	3
GPIO32	>>	GPIO32	3
SC10	>>	SC10	3.10
SC11	>>	SC11	3.8.1
SDA	>>	SDA	3.8.1
SCART_FB	>>	SCART_FB	3



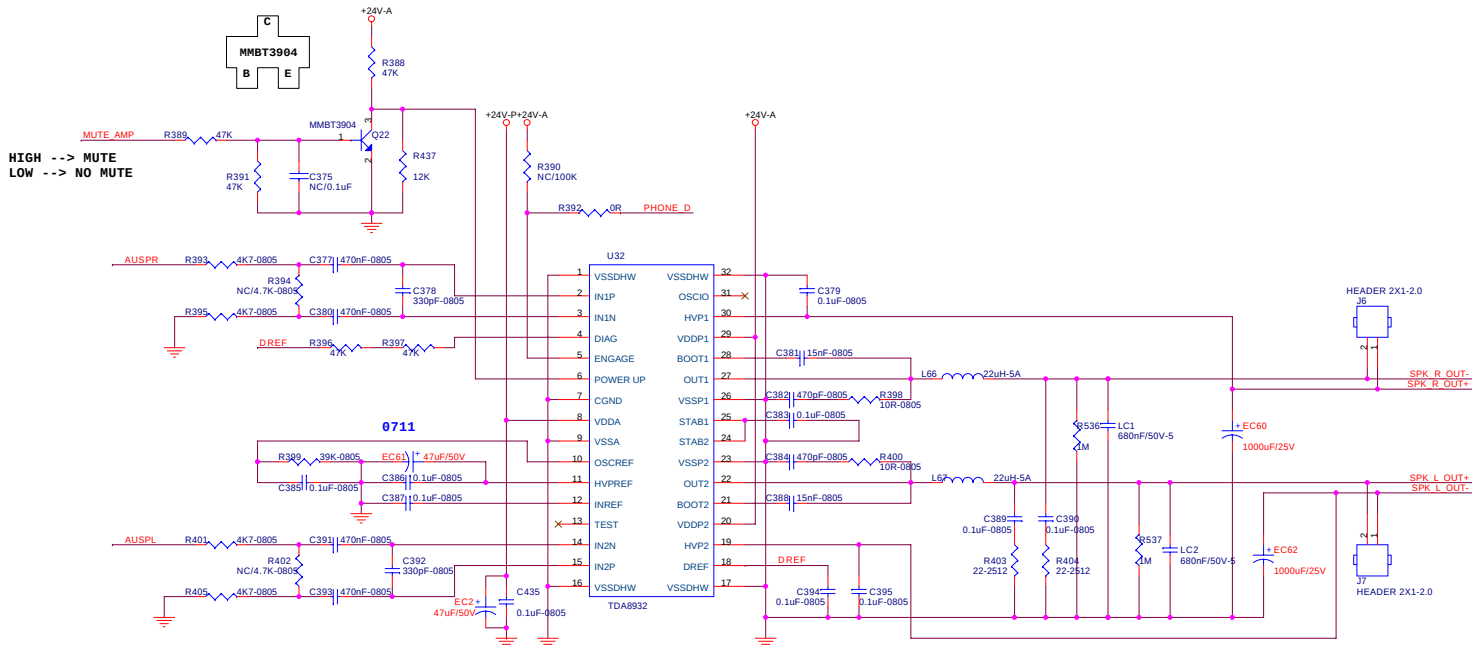
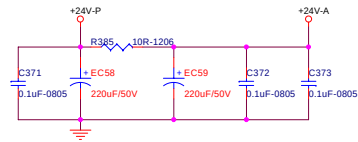
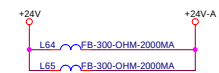
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Title	AUDIO / VIDEO IN CIRCUIT
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Size C	Document Number GF271-XP
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AUSPR >>> AUSPR 11
 AUSPL >>> AUSPL 11
 PHONE_A_D_O >>> PHONE_A_D_O 9
 SPK_R_OUT+ >>> SPK_R_OUT+ 9
 SPK_R_OUT- >>> SPK_R_OUT- 9
 SPK_L_OUT+ >>> SPK_L_OUT+ 9
 SPK_L_OUT- >>> SPK_L_OUT- 9
 GPIO35 >>> GPIO35 3.11
 GPIO3 >>> GPIO3 3

MUTE AMP R405 0R GPIO35
 PHONE_D R409 0R PHONE_A_D_O
 GPIO3 R410 NC/0

+24V
 +24V

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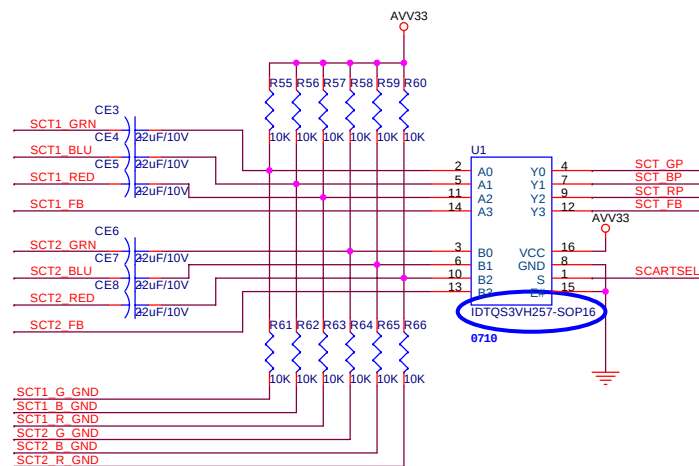
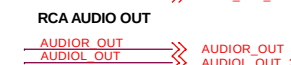
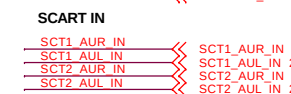
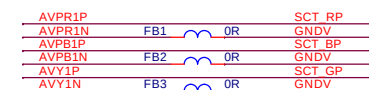
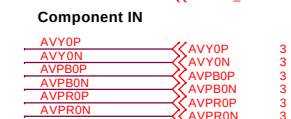
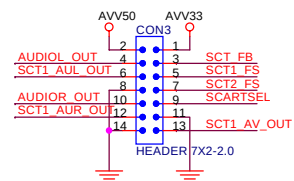
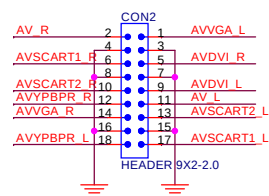
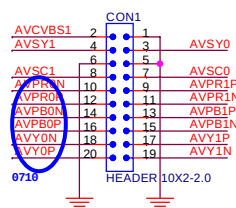
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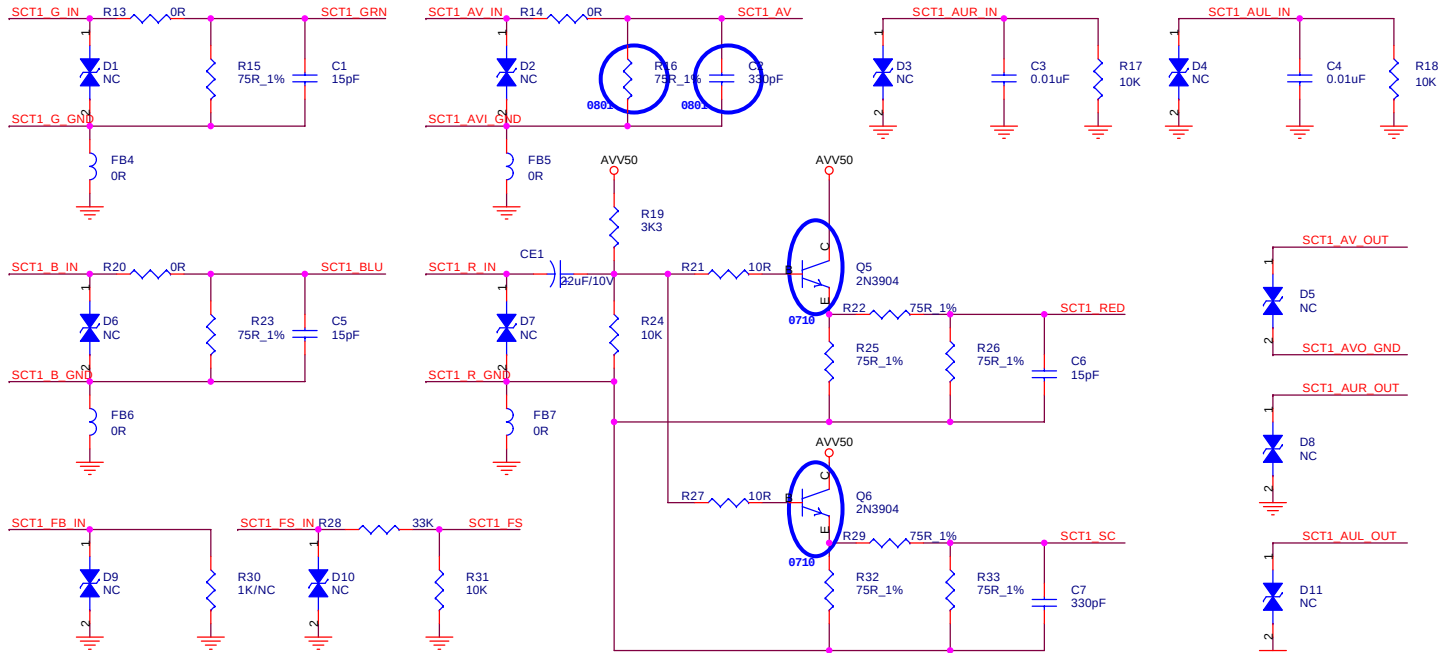
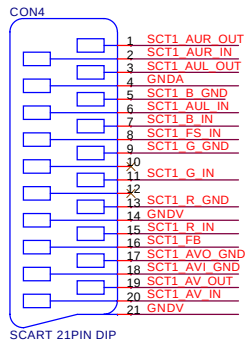
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file
AUDIO AMP

Size	Document Number	Rev
C	GF271-XP	C

Date: Thursday, August 10, 2006 Sheet 12 of 13





SCART1 I/F

CVBS+SV+SCTSOG IN

SCT1 AV → SCT1_AV 1
SCT1 SC → SCT1_SC 1

RGB IN

SCT1 GRN → SCT1_GRN 1
SCT1 BLU → SCT1_BLU 1
SCT1 RED → SCT1_RED 1
SCT1 FB → SCT1_FB 1

AUDIO IN

SCT1 AUR IN → SCT1_AUR_IN 1
SCT1 AUL IN → SCT1_AUL_IN 1

DELECT

SCT1 FS → SCT1_FS 1

CVBS OUT

SCT1 AV OUT → SCT1_AV_OUT 1
SCT1 AVO GND → SCT1_AVO_GND

AUDIO OUT

SCT1 AUR OUT → SCT1_AUR_OUT 1
SCT1 AUL OUT → SCT1_AUL_OUT

SCART2 I/F

CVBS+SV+SCTSOG IN

SCT2 AV → SCT2_AV 1
SCT2 SC → SCT2_SC 1

AUDIO IN

SCT2 AUR IN → SCT2_AUR_IN 1
SCT2 AUL IN → SCT2_AUL_IN 1

RGB IN

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SCT2 BLU → SCT2_BLU 1
SCT2 RED → SCT2_RED 1
SCT2 FB → SCT2_FB 1

DELECT

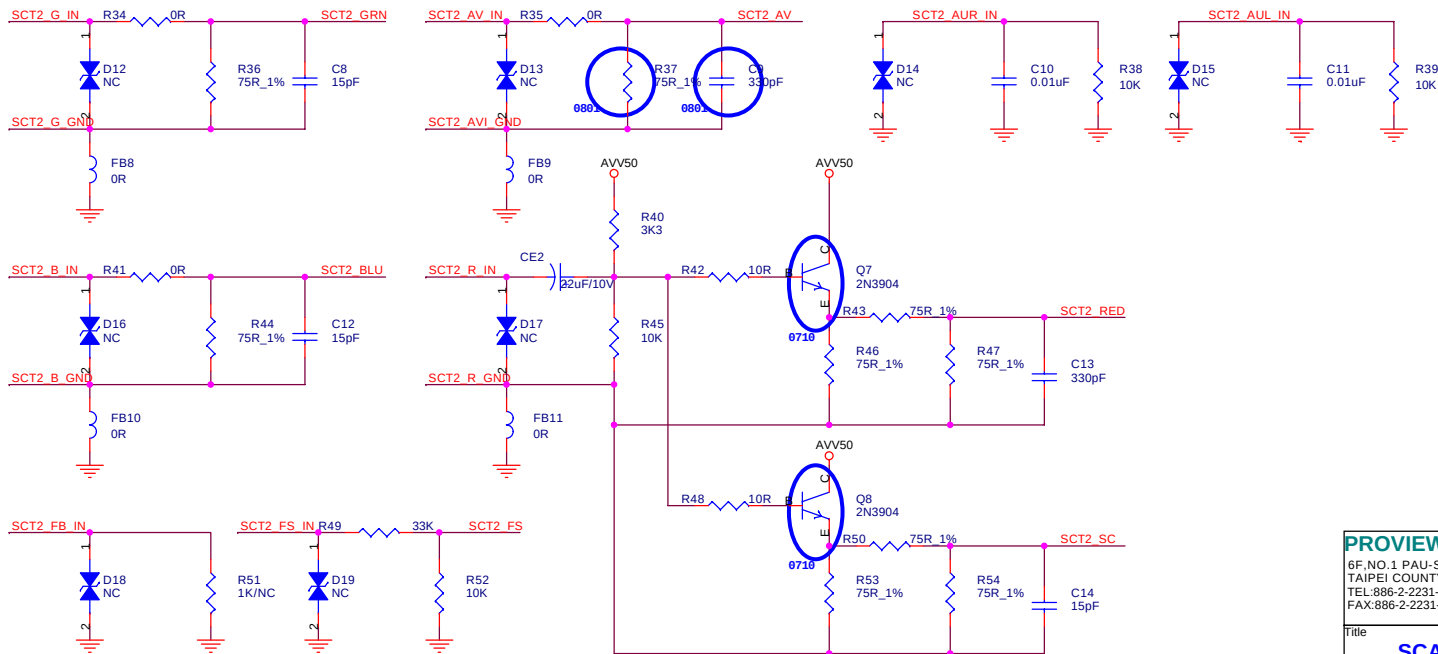
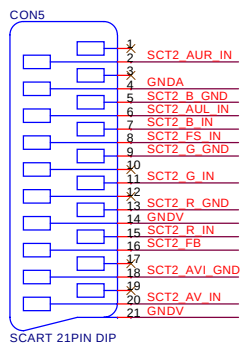
SCT2 FS → SCT2_FS 1

CONTROL

SCARTSEL → SCARTSEL 1

GND A
GND V

SCT1 G GND → SCT1_G_GND 1
SCT1 B GND → SCT1_B_GND 1
SCT1 R GND → SCT1_R_GND 1
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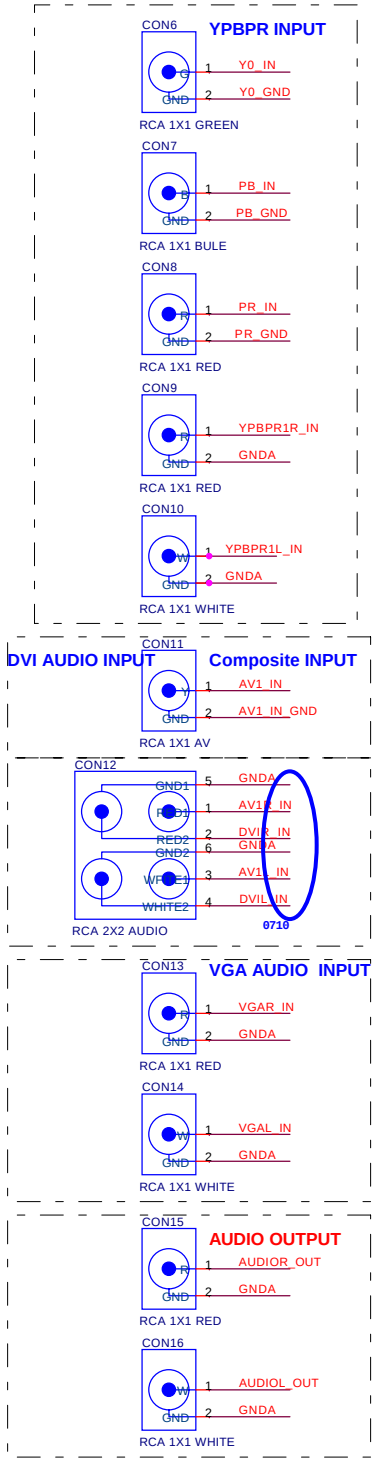
PROVIEW ELECTRONICS CO., LTD.

6F, NO.1 PAU-SHENG RD., YUNG-HO CITY,
TAIPEI COUNTY 234, TAIWAN
TEL: 886-2-2231-6789
FAX: 886-2-2231-6781

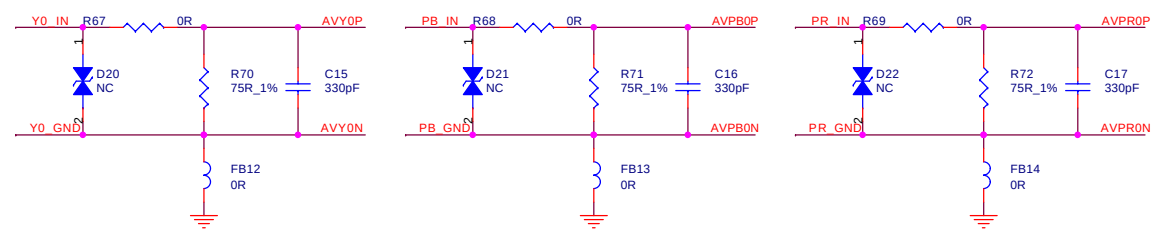
SCART AUDIO & VIDEO IN/OUT

Size A3 Document Number <Doc> Rev B

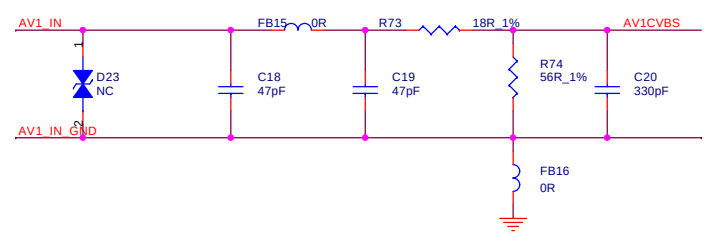
Date: Tuesday, August 01, 2006 Sheet 2 of 4



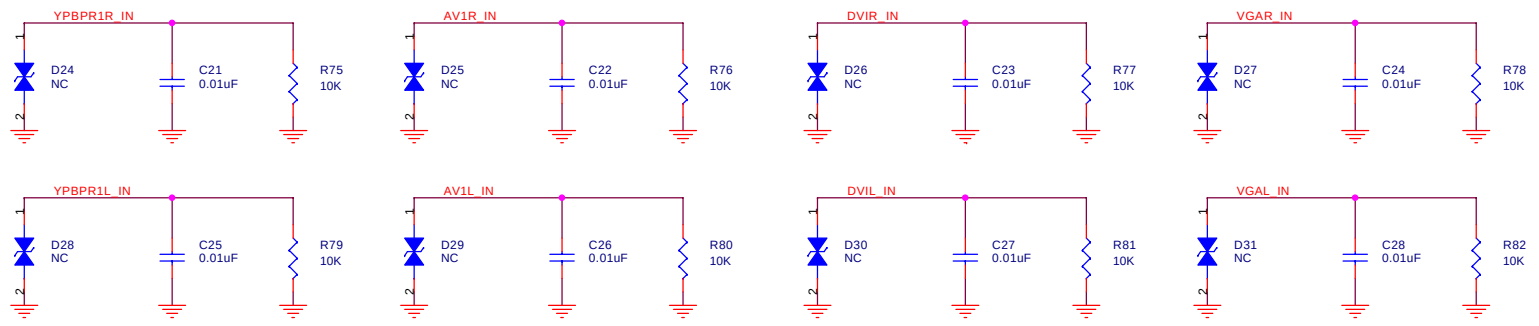
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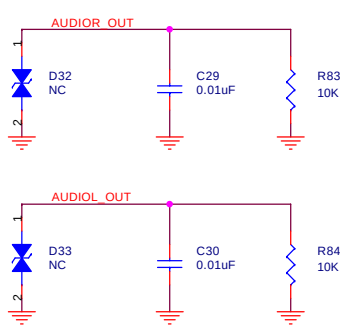
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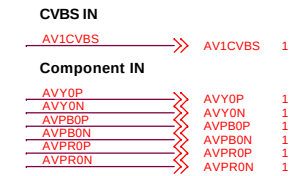
YPbPr & CVBS & DVI & VGA Audio Input



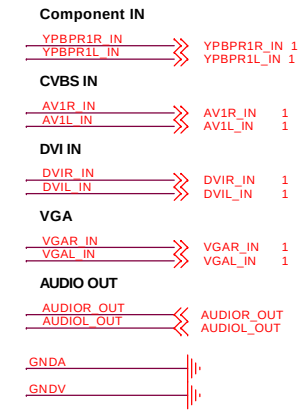
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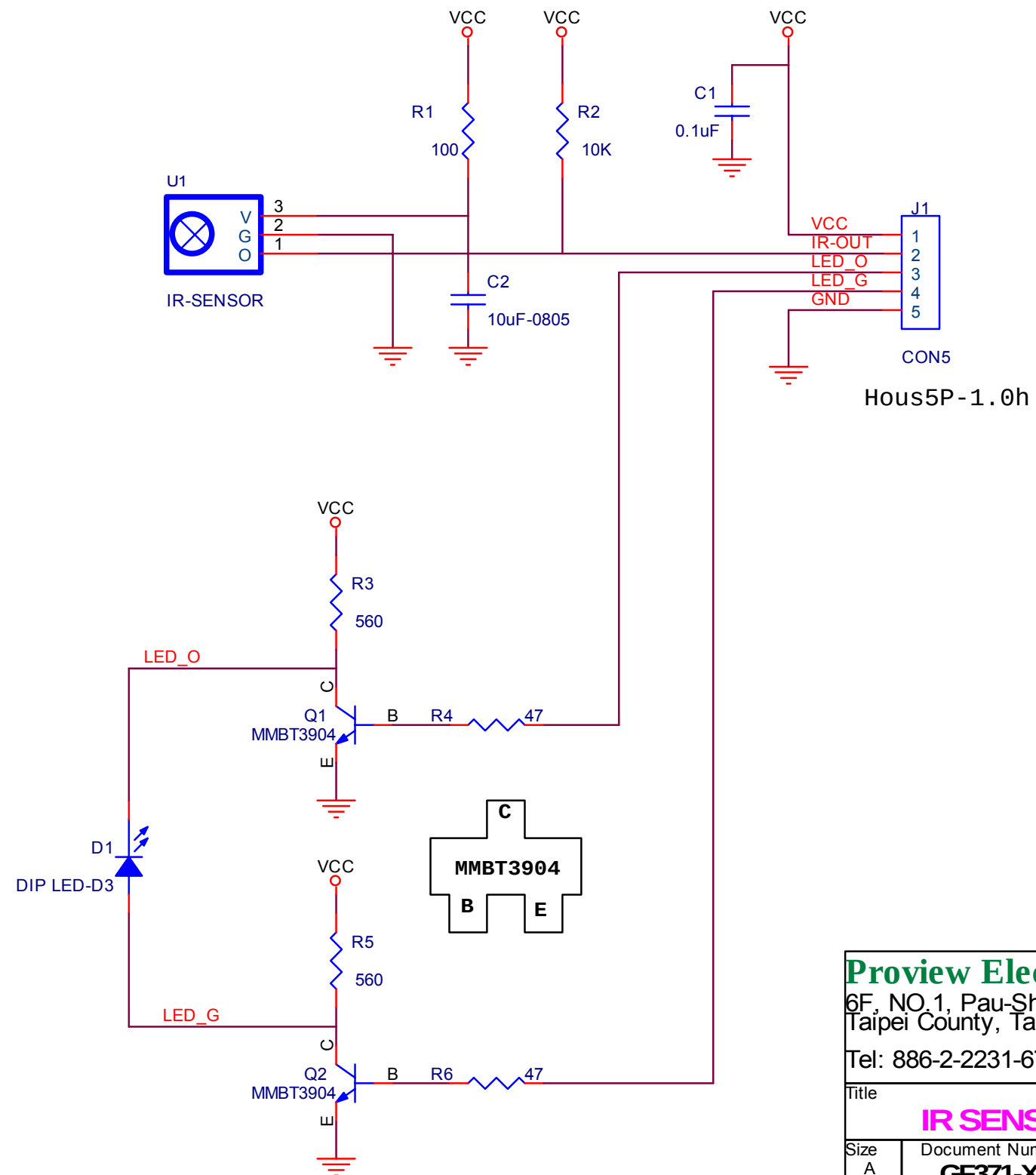
VIDEO I/F



AUDIO I/F



IR/LED Board

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Title

IR SENSOR PCB

Size
A

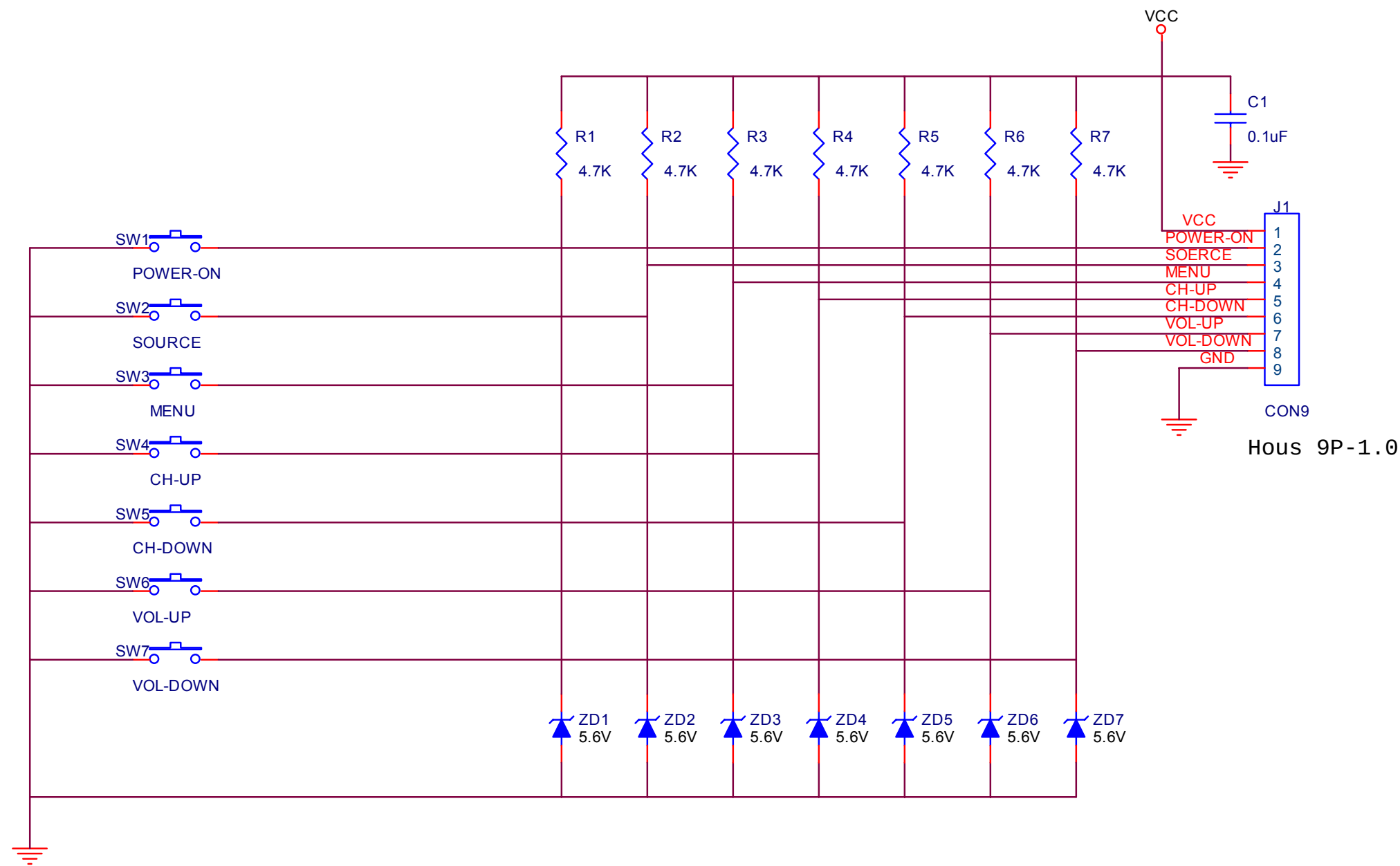
Document Number
GF371-XU

Rev	
A	

Date: Tuesday, December 20, 2005

Sheet 1 of 1

Keypad Board

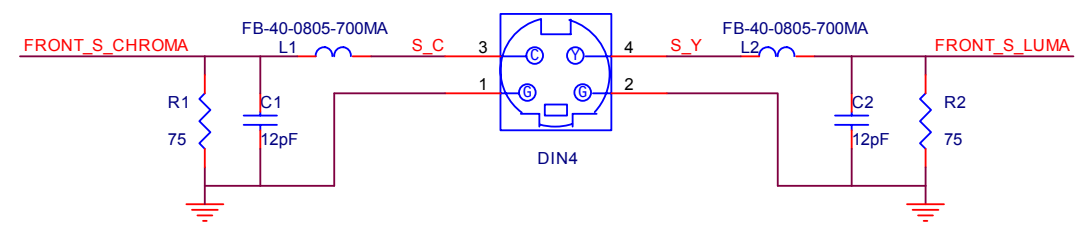


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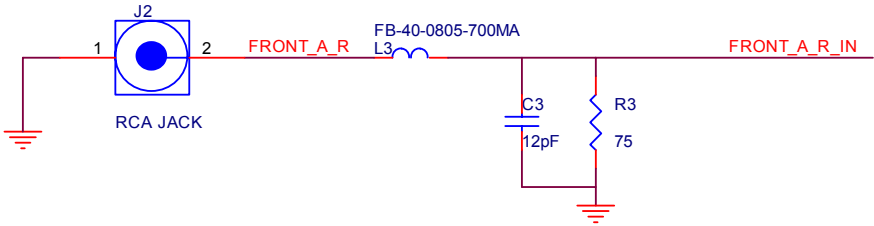
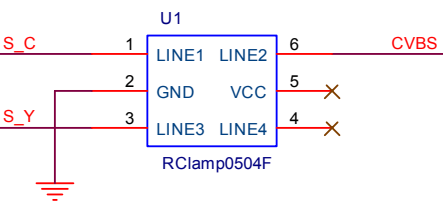
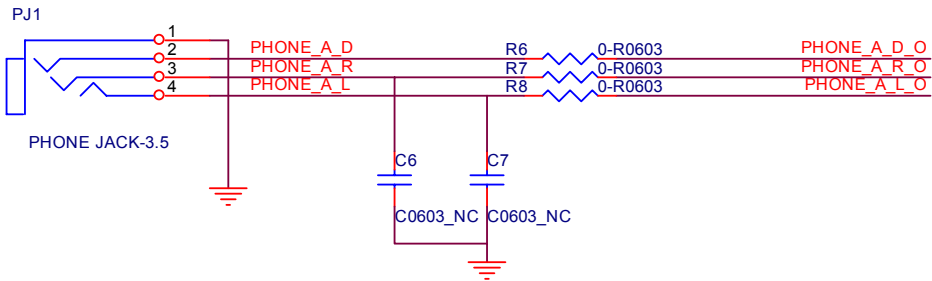
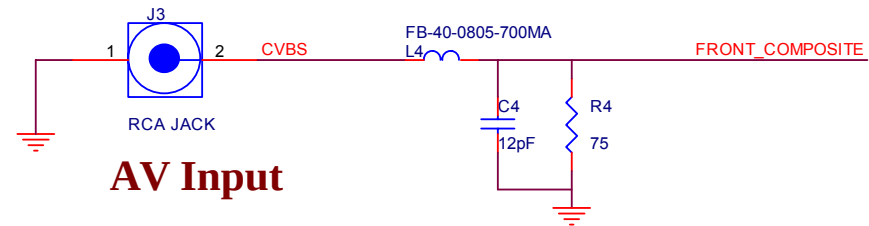
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KEYPAD PCB		
Size A	Document Number GF371-XU	Rev A
Date:	Friday, September 30, 2005	Sheet 1 of 1

AV AUX Board

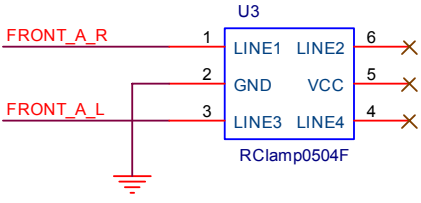
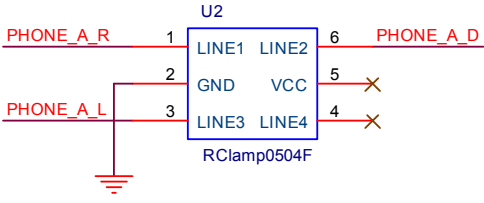
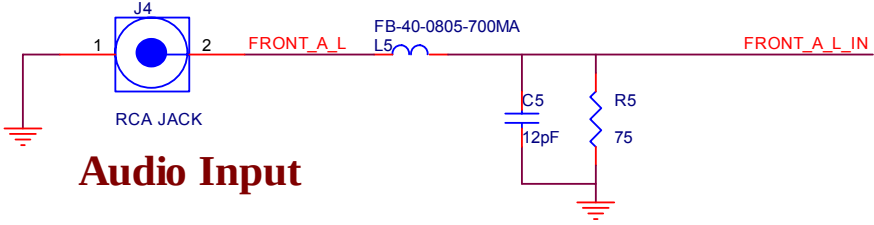
S-Video Input



AV Input

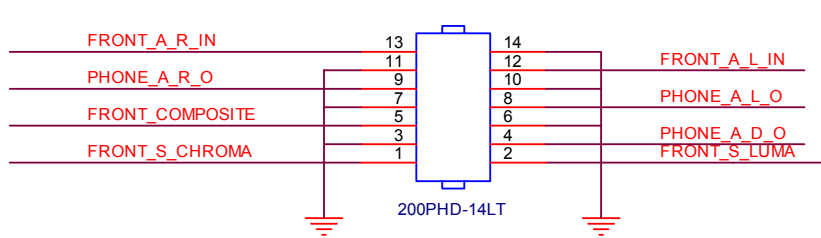


Audio Input



CON1 : FRONT AV INPUT/OUTPUT 200PHD Series 2X8 (16pin)

AUX AV



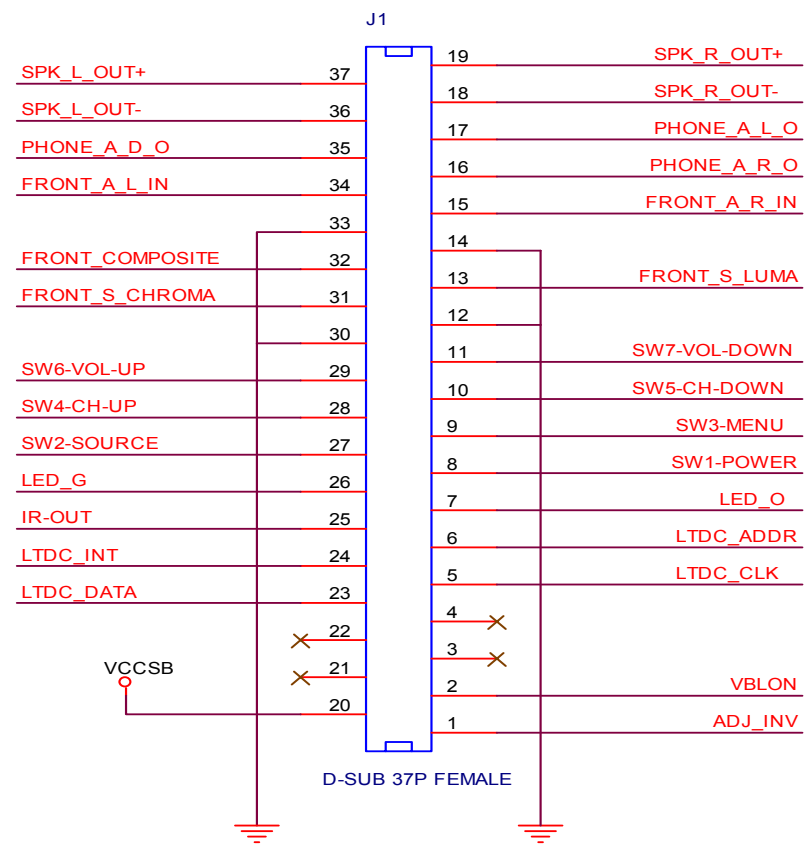
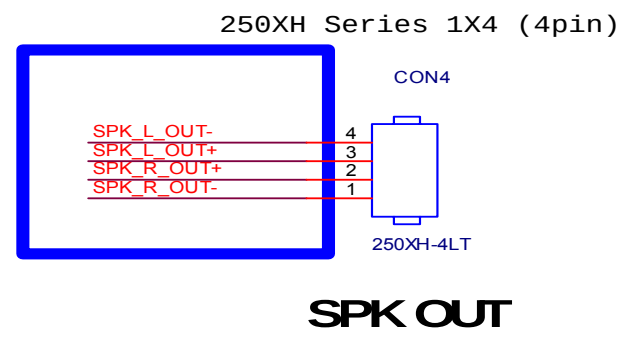
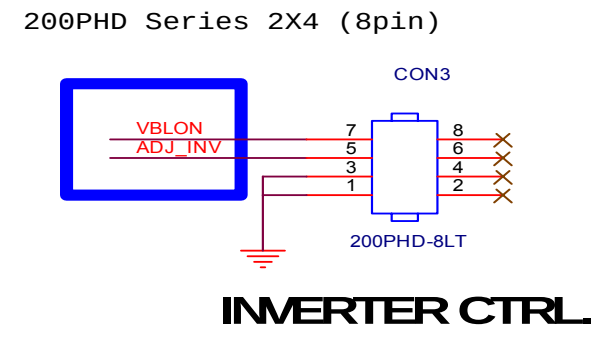
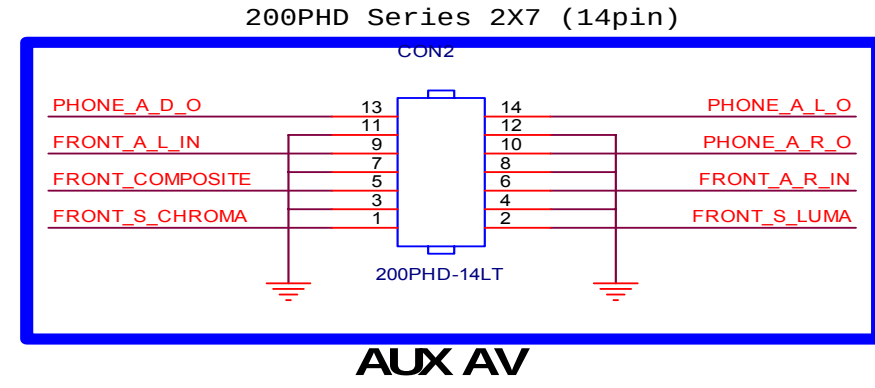
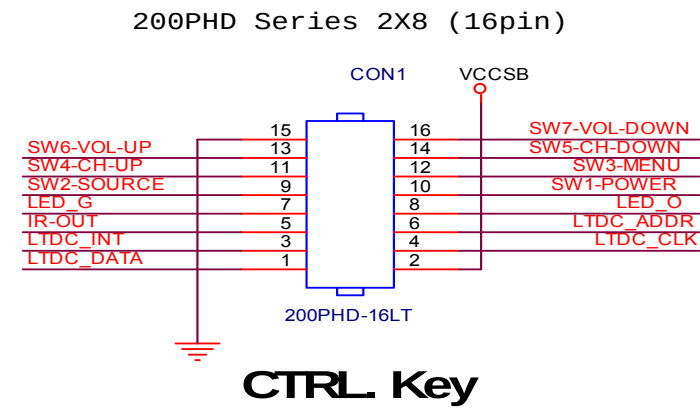
LINK TO AUX AV PCB 1

Proview Electronics (Taiwan) Co., LTD.
6F, NO.1, Pau-Sheng Rd., Yung-Ho City,
Taipei County, Taiwan R.O.C.
Tel: 886-2-2231-6789 Fax: 886-2-2232-4613

Title
AUX AV PCB

Size B	Document Number GF371-XU	Rev A
Date: Thursday, November 24, 2005		Sheet 1 of 1

D-SUB 37 PIN Board



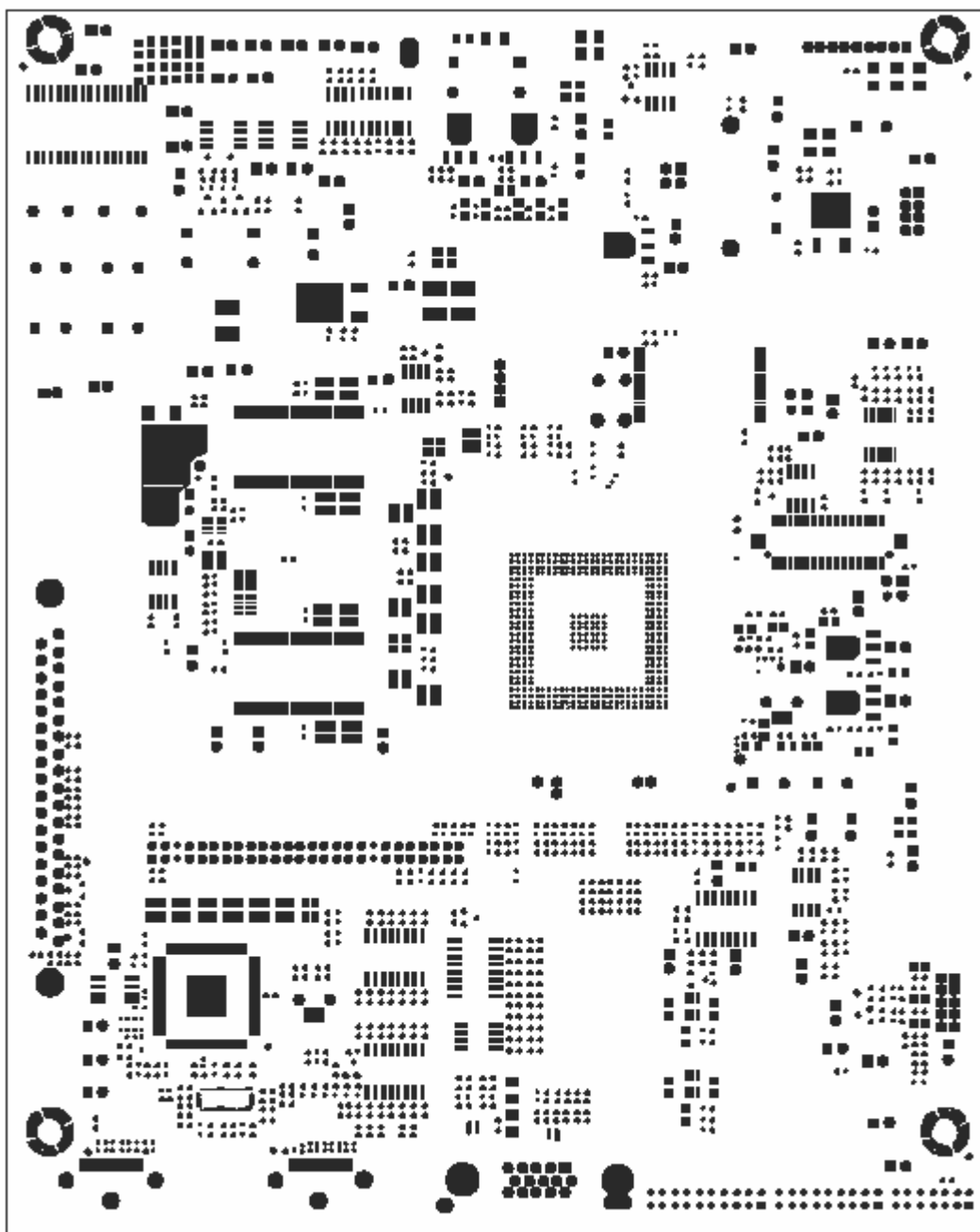
Proview Electronics (Taiwan) Co., LTD.
6F, NO.1, Pau-Sheng Rd., Yung-Ho City,
Taipei County, Taiwan R.O.C.
Tel: 886-2-2231-6789 Fax: 886-2-2232-4613

Title
CON JUNCT D-SUB 37Pin

Size Custom	Document Number JK379-UD	Rev A
Date: Friday, September 09, 2005	Sheet 1 of 1	

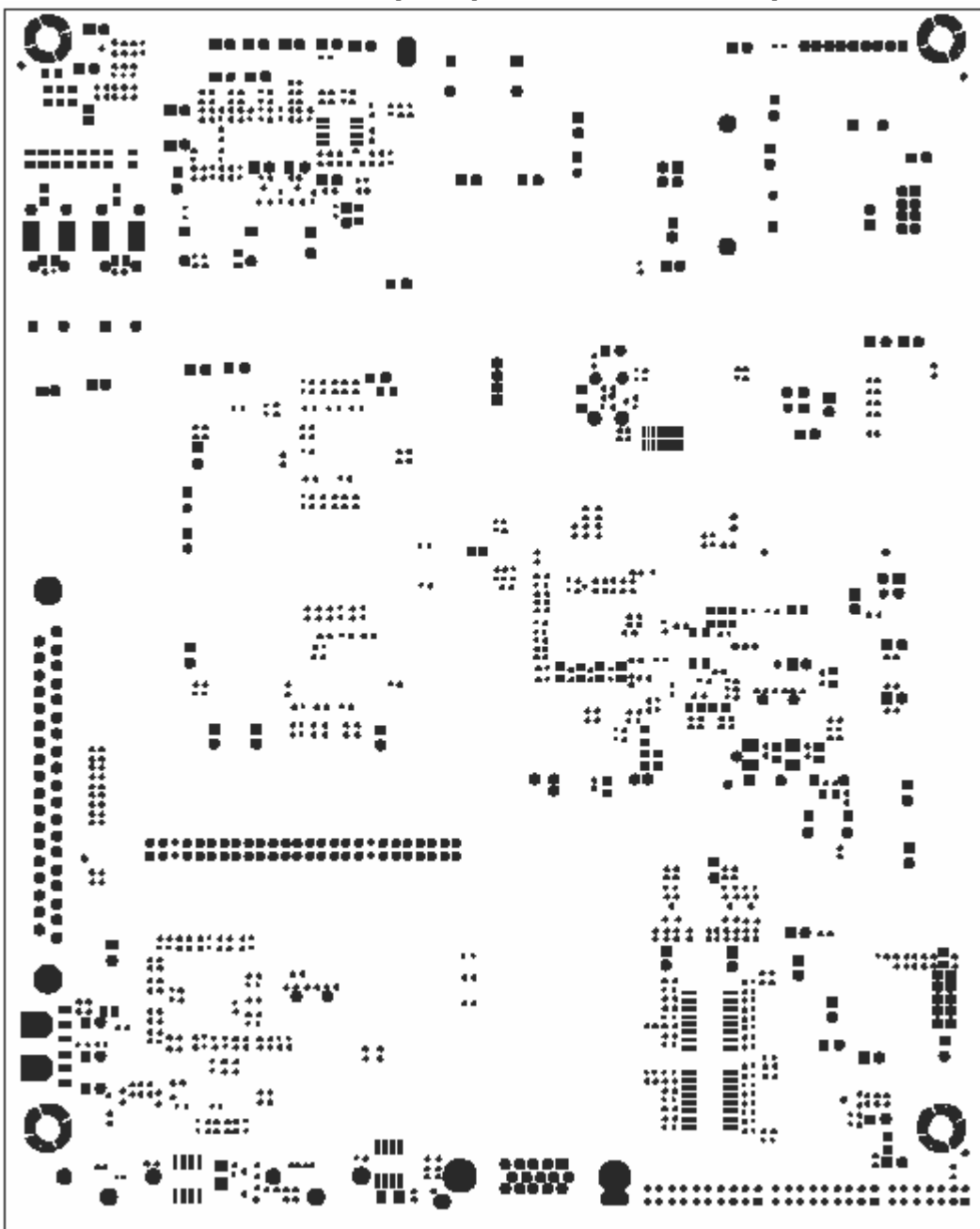
8. PCB Layout Diagram

Main Board (Component Side Top)



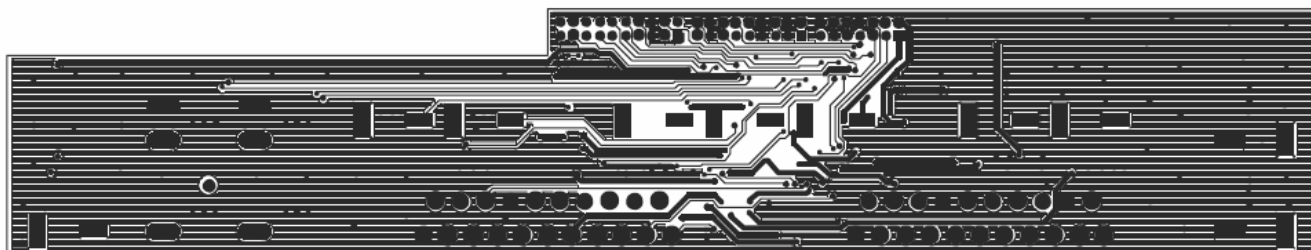
200-107-JK370P-BH REV.B 2006/07/17 MASK TOP

Main Board (Component Side Bottom)

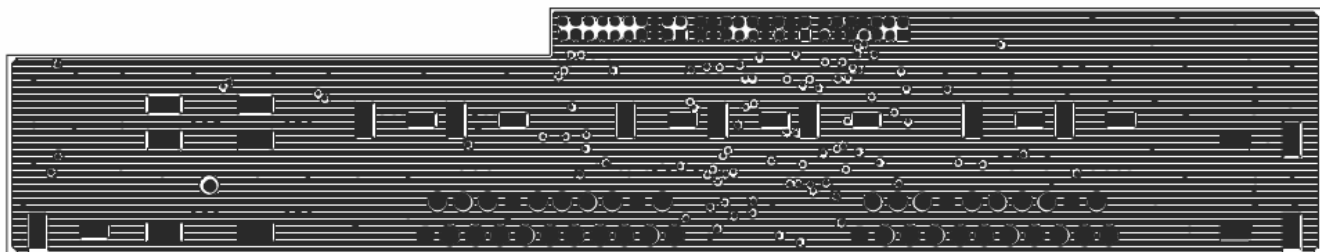


200-107-JK37XP-BH REV:B 2006/07/17 MASKBOT

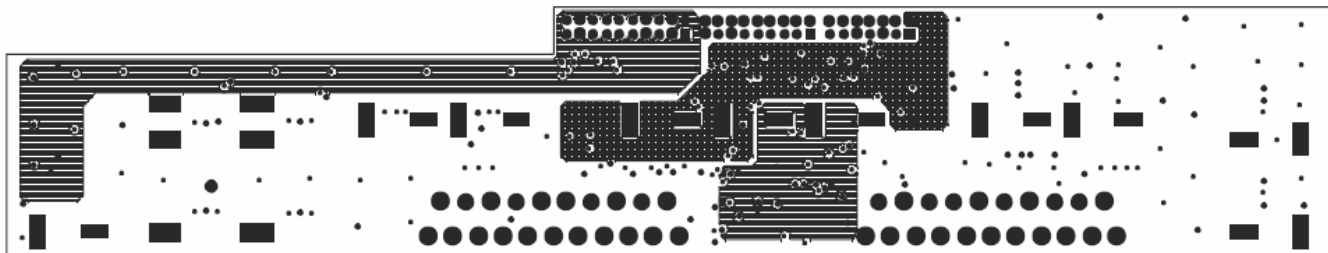
IO Board L1 component side



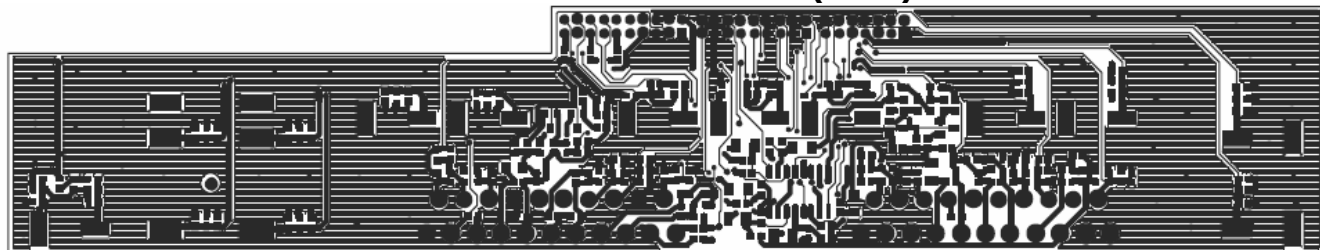
IO Board L2 GND (COMP.)



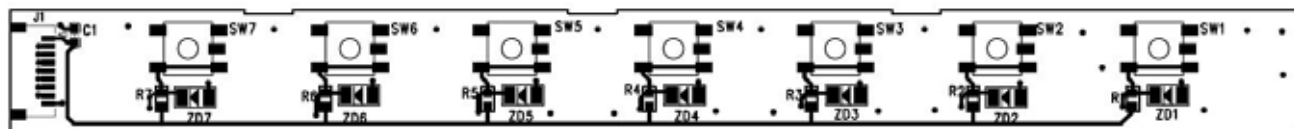
IO Board L3 VCC (COMP.)



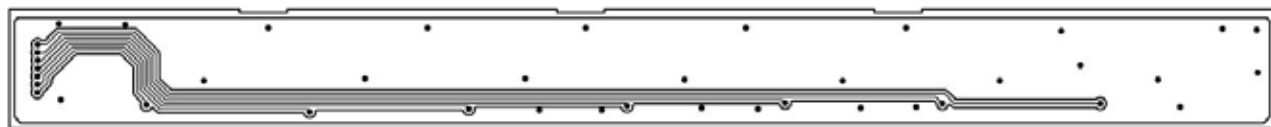
IO Board L4 soloer side (BOT.)



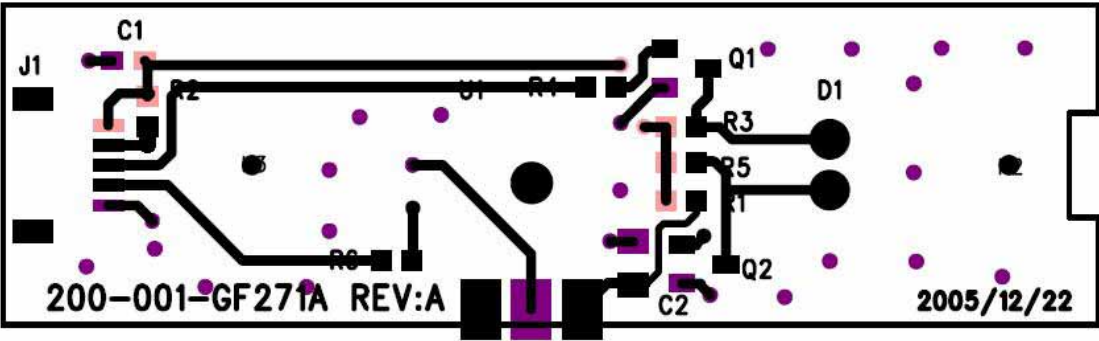
Keypad Board (Component Side Top)



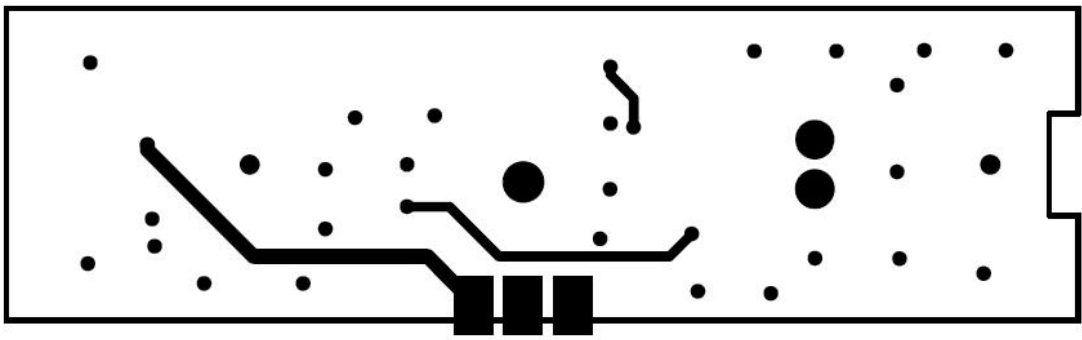
Keypad Board (Component Side Bottom)



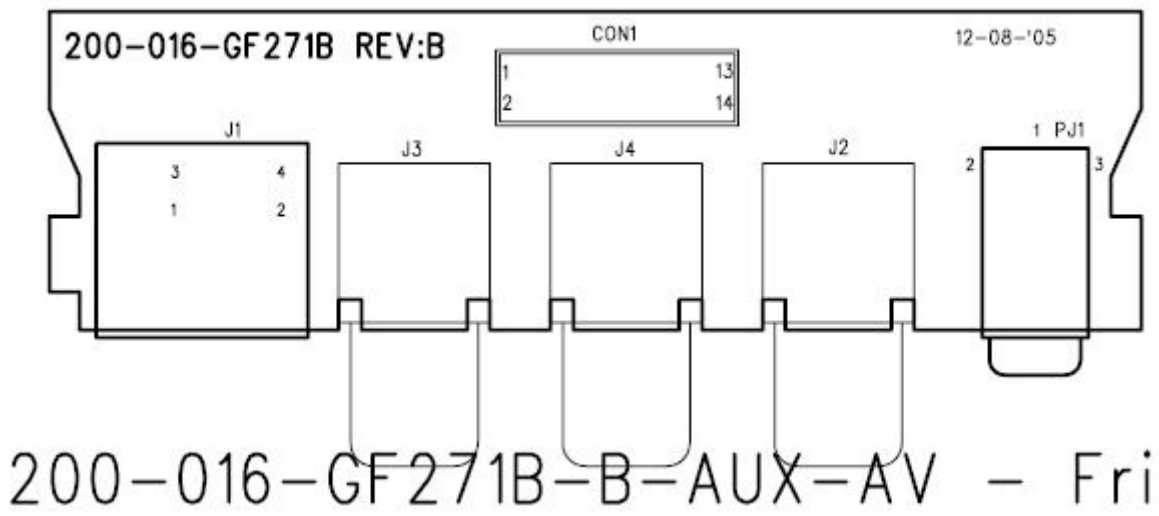
IR/LED Board (Component Side Top)

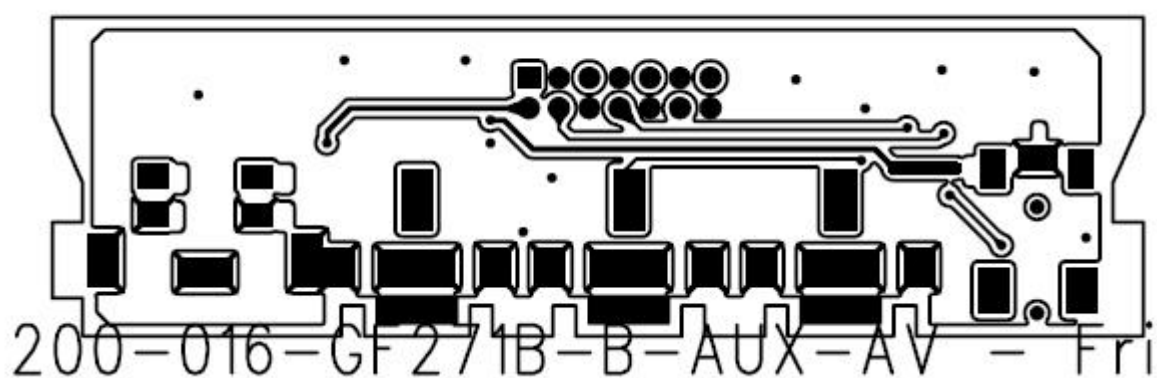


IR/LED Board (Component Side Bottom)

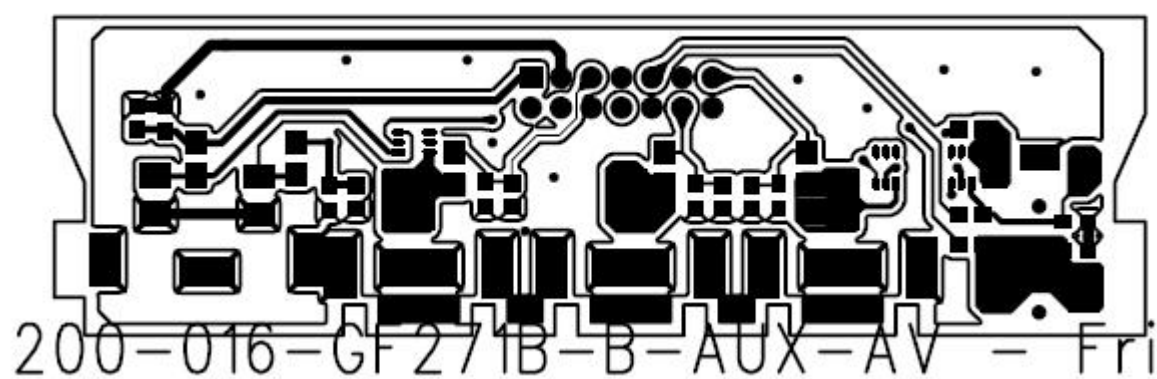
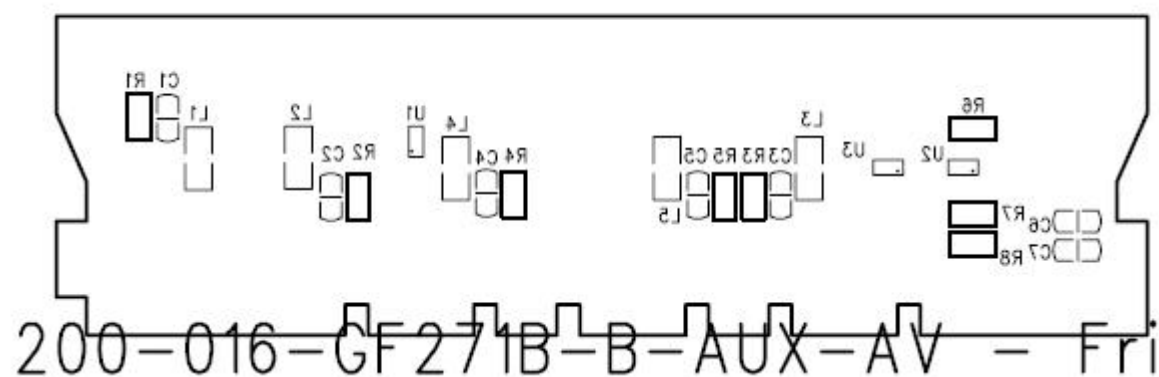


AUX AV Board (Component Side Top)

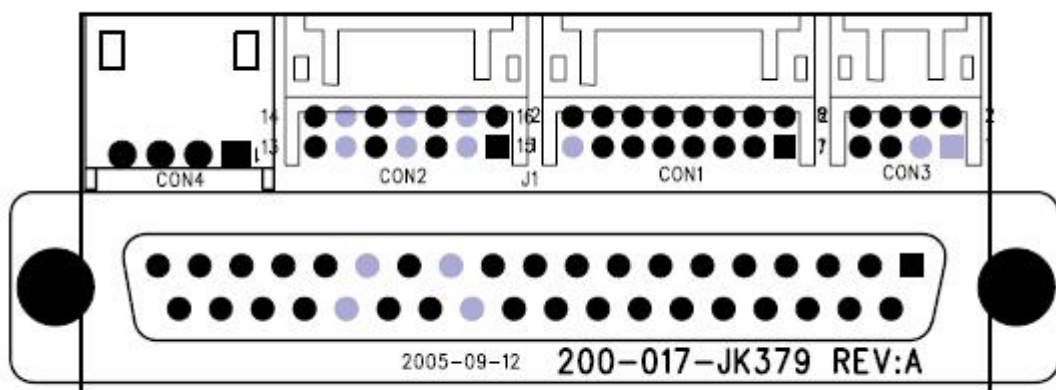




AUX AV Board (Component Side Bottom)



D-SUB 37 Pin Board (Component Side Top)



D-SUB 37 Pin Board (Component Side Bottom)

