

Acer AT3730B LCD TV

Service Guide

Service guide files and updates are available on the ACER/CSD web. For more information, please refer to <http://csd.acer.com.tw>

Revision History

Please refer to the table below for the updates of LCD TV AT3730B service guide.

Date	Chapter	Updates
2007/7/27	Chapter 1 ~ 4	1st edition

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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 BASIC CONFIGURATION 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 note WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reason, if 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.

System Specification

Specification

LCD Panel

Max. resolution: 1366 x 768

18 CCFTs Backlight system

Display area: 37 inches

Display color: 16.7 M colors

Input Signal: 1-ch LVDS

Contrast ratio: 1200:1 (Typical)

Brightness: 500 Cd/m² (Typical)

Response Time: 8 ms

Viewing angle: 88° (L) / 88° (R), 88° (U) / 88° (D)

I/O functions

RCA jack (YUV and CVBS) for YPbPr, YCbCr, Video and Audio

4 pin S-DIN for S-Video

15 pin D-Sub for VGA

19 pin HDMI connector

DIN45325 (IEC169-2) Terminal for TV / CATV input

DIN45325 (IEC169-2) Terminal for DVB-T input

3.5 mm Earphone jack for Audio Line input

Video Functions

Support PAL / NTSC / SECAM video format

Support 480i/576i, 480p/576p, 1080i and 720p format

Build in Teletext functions

Build in Dynamic adaptive smoothing filter

Build in Dynamic temporal frame-filtering Noise Reduction

Build in Dynamic motion and edge adaptive De-interlacing

Film mode 3:2 & 2:2 pull down

Screen display model 16:9 / 4:3 / panorama / Letterbox1/ Letterbox2/ Letterbox3

Mechanical

VESA mounting holes

Compatibility

Multi-Sound system

NICAM

FM Stereo (A2)

Power Source

Input voltage: 90 ~ 264 V, 47 ~ 63 Hz

Power consumption: 235 Watts

Stand-by: 5 Watts Max.

Remote controllers

Multi-function remote controller

Speaker

Internal speaker: 10 W x 2

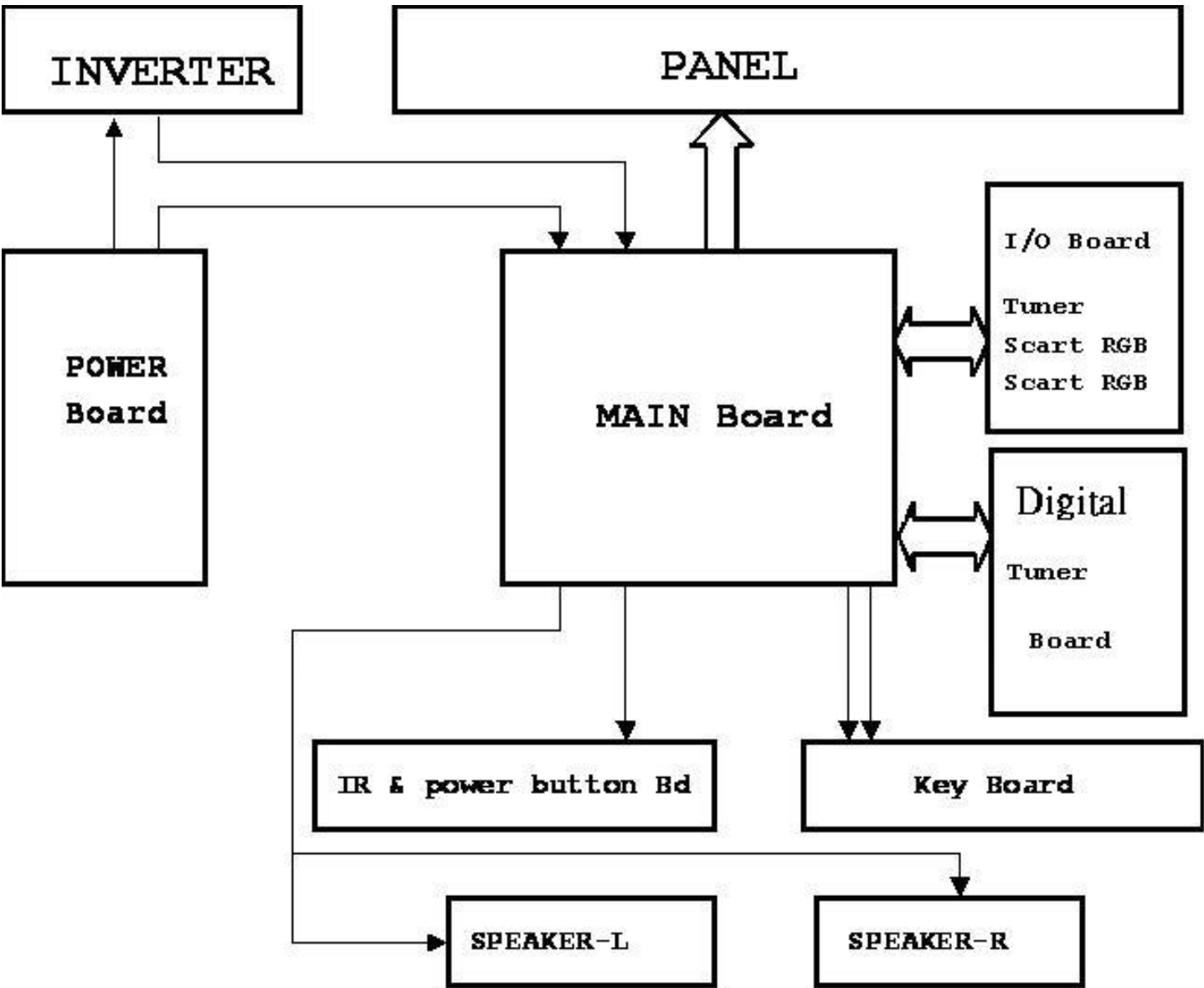
Amplifier: 8 W x 2 stereo, volume adjustable

Others

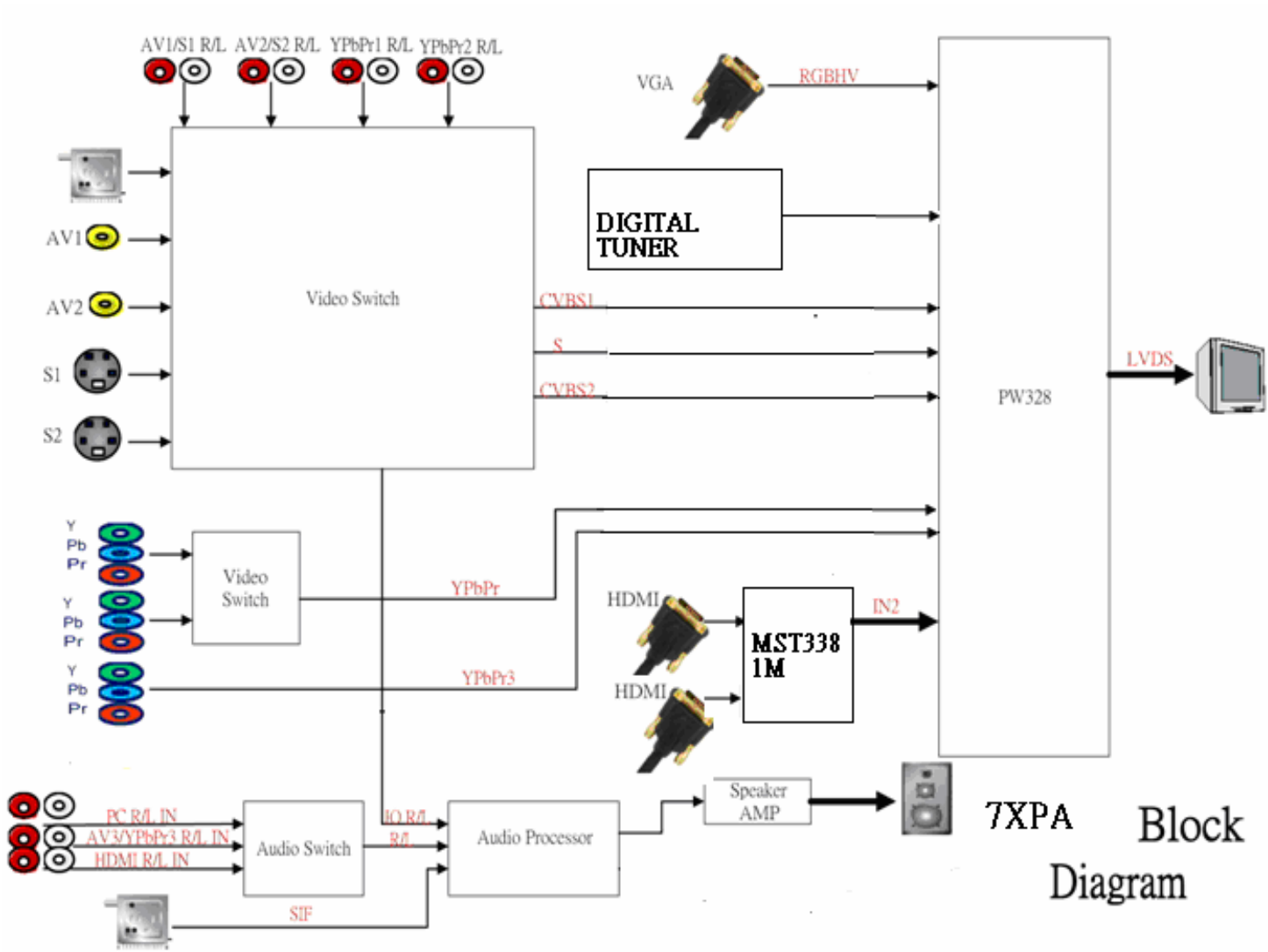
On screen display adjustment function

ISP (In System Programming) function available for revising driver easily

System Block & Wiring Diagram



LCD Main Board Block Diagram



7XPA Block Diagram

Remote Control



Key Functions

Remote Function description		
R/C for Australia	Key Functions	Remark (for cardreader)
Power	Power On/Off	
Display	Display Channel and Input Source	
Mute	Mute On/Off	
TV	Analogue TV / Digital TV	
Component	Component1/Component2	
AV	AV1/AV2/AV3/HDMI1/HDMI2	
PC	VGA	
Sleep	Sleep Timeer Off 15/30/45/60/90/120	

Wide	Scaling Mode (4:3 /16:9 /Panorama /Letterbox)	
Menu	Open Menu or leave Menu	
EPG	In digital TV mode, press the key to launch EPG main page	
CH List	Enable in Digital TV mode only. 1. In Digital TV mode, Press the key to launch ch list main page. 2. In Non Digital TV source, Press this key will show "This function is only use in DTV source message"	
Four way direction key		
up	Navigate up in the OSD, ATV: next page or sub page in teletext mode DTV: next page in teletext mode	
down	Navigate down in the OSD, ATV: previous page or sub page in teletext mode DTV: previous page in teletext mode	
left	Navigate left in the OSD, DTV: previous sub page in teletext mode	
right	Navigate right in the OSD, DTV: next sub page in teletext mode	
OK	Selection Confirm	
1	Number key 1	
2	Number key 2	
3	Number key 3	
4	Number key 4	
5	Number key 5	
6	Number key 6	
7	Number key 7	
8	Number key 8	
9	Number key 9	
0	Number key 0	
Recall	Return to previous channel	
Enter	Enter to confirm channel selection by number key	
Channel UP	Channel up	
Channel Down	Channel down	
MPX	NICAM STEREO Broadcast : Stereo/Mono BILIGUAL Broadcast : Sound 1 / Sound 2 MONAURAL Broadcast: Mono FM-FM STEREO Broadcast: Stereo/Mono BILINGUAL Broadcast : Sound 1 / Sound 2	

	DTV multi-audio selection	
Volume up	Volume up	
Volume down	Volume down	
Teletext/Mix	Teletext on -> Mixed mode on ->Teletext off	
Index	Go to index page (usually page 100) in teletext mode	
Subpage	ATV: Enter/Leave subpage mode DTV: Simulated as Right key operation to change sub page in teletext mode.	
Reveal	Display Hidden Information	
Hold	1.When in teletext pages, press this button temporarily holds the current teletext page 2.When in the TV Mode, pressing Hold key do freeze function on active video	
Size	When in teletext pages, this key Zoom page toggle 1X/2X and page selection by Up-arrow and Down-arrow HDMI1/HDMI2 Select Scan mode Auto -> Underscan -> Overscan	
Subtitle	Show subtitle on the screen	
R	Colour button to operate the teletext	Functionalities of color keys vary in different screens/modes, which could be for navigation or special function, subject to be specified on individual screen
G	Colour button to operate the teletext	
Y	Colour button to operate the teletext	
C	Colour button to operate the teletext	

Hardware Specification and Configuration

Electro / Optical

Model **AT3730B**

Panel specification

Resolution(pixels)	1366x768
Brightness(min.)	500 cd/m ²
Contrast ratio(min.)	1200:1(Typ.)
Display color	16.7 M
Viewing angle	176(H)/176(V)
Response(typ.)	8ms

Power supply

Input	90-264 V, 47-63 Hz
Max. power Consumption	135W
Power saving	5W

Mechanical

Dimensions(WxHxD mm)	877*514.6*54.7
Weight(Kg)	10.3

Analog TV system

TV color system	PAL/SECAM
Sound system	Sound 1 and Sound 2
Stereo system	NICAM and FM Stereo (A2)
Analog TV-tuner Quantity	1

Terminal

RF	75Ω DIN45325 (IEC169-2) Type
RF (DVB-T)	75Ω DIN45325 (IEC169-2) Type
AV 1	RCA Jack for CVBS, S-Video and Audio
AV 2	RCA Jack for CVBS, S-Video and Audio
AV 3	RCA for YPbPr or CVBS and Audio R/L
Component 1	RCA Jack for YUV and Audio
Component 2	RCA Jack for YUV and Audio
PC Analog Port	D-Sub 15 pin VGA
PC Stereo input	3.5 mm Earphone Jack
HDMI1	19 pins HDMI single link
HDMI2	19 pins HDMI single link
Service Port	ISP through D-Sub

Audio system

Speaker	10 W x 2
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Firmware Specifications

Preset Mode for VGA Input

16 factory pre-set modes for VGA inputs are saved during the manufacturing process.

Please press "Volume-" + "Channel+" + "POWER" to enter the LCD TV factory mode.

Preset mode	Pixel Format	Hor. Freq. (kHz)	Hor. Polarity	Vert. Freq. (Hz)	Vertical Polarity	Standard
1	720*400	31.47	-	70	+	VGA
2	640*480	31.47	-	60	-	VGA
3	640*480	37.861	-	72	-	VESA
4	640*480	37.5	-	75	-	VESA
5	640*480	43.4	-	85	-	VESA
6	800*600	35.156	-	56	+	VESA
7	800*600	37.879	+	60	+	VESA
8	800*600	48.077	+	72	+	VESA
9	800*600	46.875	+	75	+	VESA
10	800*600	53.7	+	85	+	VESA
11	1024*768	48.363	-	60	-	VESA
12	1024*768	56.476	-	70	-	VESA
13	1024*768	60.023	+	75	+	VESA
14	1360*768	68.7	+	85	+	VESA
15	832*624	49.7	-	75	-	MAC
16	1024*768	60.2	-	75	-	MAC

This LCD TV shall have 10 or more user modes for user to creat own timing.

This LCD TV would detect the used mode automatically.

Preset Mode for HDMI Input

16 factory pre-set modes for DVI inputs are saved during the manufacturing process.

Preset mode	Pixel Format	Hor. Freq. (kHz)	Hor. Polarity	Vert. Freq. (Hz)	Vertical Polarity	Standard
1	640*480 60	31	-	60	-	VGA
2	640*480 72	37	-	72	-	VESA
3	640*480 75	37	-	75	-	VESA
4	640*480 85	43	-	85	-	VESA
5	800*600 56	35	+	56	+	VESA
6	800*600 60	37	+	60	+	VESA
7	800*600 72	48	+	72	+	VESA
8	800*600 75	46	+	75	+	VESA
9	800*600 85	53	+	85	+	VESA

10	1024*768 60	48	-	60	-	VESA
11	1024*768 70	56	-	70	-	VESA
12	1024*768 75	60	-	75	-	VESA
13	1024*768 85	68	+	85	+	VESA
14	1280x768 60	48	-	60	+	VESA
15	1360x768 60	48	+	60	+	VESA
16	1280x720/50	40		50		
17	1280x720/60	45		60		
18	576P/50	31		50		
19	1920x1080i/50	28		50		
20	1920x1080i/60	34		60		

This LCD TV shall have 10 or more user modes for user to creat own timing.

Power Saving

While VGA is selected to be input, this LCD TV is equipped with a power-management according to VESA DPMS. There is a delay of 30 seconds before the transition from On-state to power saving state to avoid unintentionally entering of a power saving state during display resolution and timing mode changes. During the period of delay, the LED shall indicate green color and OSD will show " NO VGA CONNECTION ".

Transition from any power saving state to another can be instantaneous. The recovery from Off-state requires no manual power on.

Mode	Hsync	Vsync	Video	Power	Indication	Recovery time
Power-On	On	On	Active	< 235W	Green	--
Stand-by	Off	On	Off	< 5W	Red	<5s
Suspend	On	Off	Off	< 5W	Red	<5s
Off-state	Off	Off	Off	< 5W	Red	<5s
Power off	×	×	×	< 5W	Dark	Turn on < 5s

Sync on means: normal operation

Sync off means: Hsync: $f < 1 \text{ KHz}$, duty cycle $> 25 \%$, Vsync: $f < 10 \text{ Hz}$, duty cycle $> 25 \%$

The power-consumption is valid over the specified voltage and frequency range.

Power comsuption is measured from AC source.

There are no power saving modes for TV, AV1, AV2 or AV3, compoment 1/2 and HDMI 1/2 inputs.

Performance Specifications

The performance shall be checked at 25°C environment.

White Balance and Uniformity

Set contrast and brightness Contrast=50 Brightness=50.

Inspection tolerance for 76PA as below: Brightness 325~425 nits

Cold: 14000 degree K($x=0.266, y=0.270$) ± 0.015 , on x and y value.

Standard: 9300 degree K($x=0.285, y=0.293$) ± 0.015 , on x and y value.

Warm: 6500 degree K($x=0.314, y=0.324$) ± 0.015 , on x and y value.

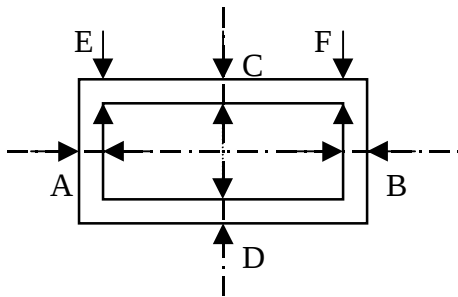
Display Area, Phase, Center and Tilt

Display Area: 37 inches diagonal

H-Phase: A-B Less than 1.5mm

V-Center: C-D Less than 1.5mm

Tilt: E-F Less than 1.5mm, but non-active area must be larger than zero for four sides.



Max. Brightness

The brightness should exceed 400 Cd/m² while set both of contrast and brightness to max. and color temperature of Standard is selected. (Typical value would be 500 Cd/m²).

Power Supply Electrical Specifications

The power supply for this product is an internal converter, with a non-replaceable fuse internally. This converter shall be well designed to meet CE mark requirement.

Input Voltage and Frequency Range

The operating range of line voltage shall be: AC 100 volts to 240 volts, 50 Hz to 60 Hz. Power consumption shall be under 291 Watts. Variation of the line voltage throughout the applicable operating range shall not

result in any visible image anomalies such as image movement, changes in light output, nor changes in image stability or quality.

Line Fuse

The AC input shall be fused and become electrically open as a result of an unsafe current condition. This fuse is inside the power supply converter and is not user replaceable, and must be returned for replacement. This fuse shall be well selected to handle inrush current for all combinations of line voltage and frequency.

Hot plug and power on / off sequence

Once hot plug occurs, at the very first time, the initial current should be limited at 2.3 amps or lower when power off. Current will stay below 100 m amps while power on, then ramp up to full power (about 2.3 amps at AC 120 volts) within 5 seconds when power-up signal is triggered. For the shut down sequence, the current will stay at full power for about 150 m seconds or less, then ramp down to 100 m amps within 1 second.

Power on LED Location and Type

Power on indicator shall be easily visible from the front of the display.

Inverter

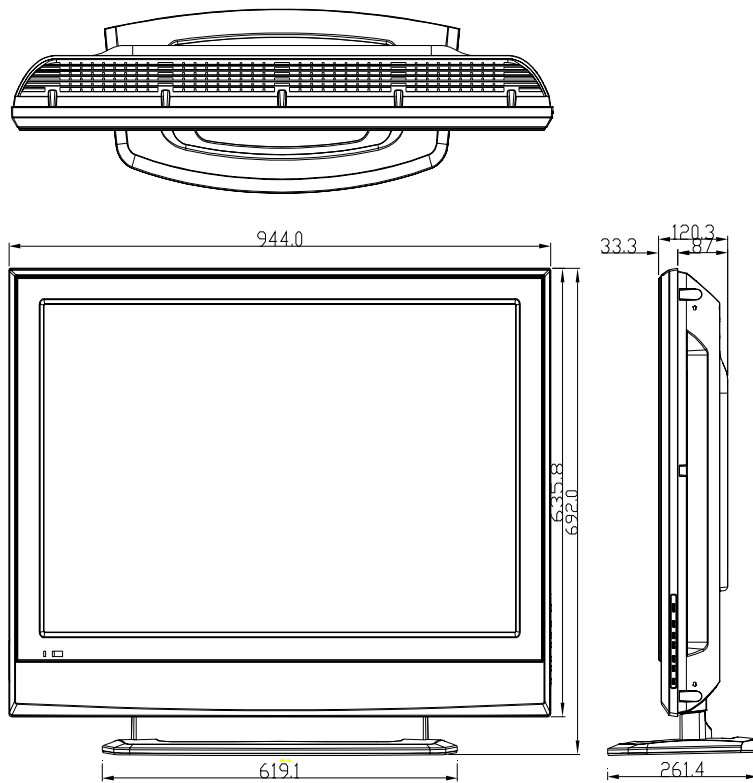
The inverter which is used to light up back-light of LCD panel shall be well designed to meet requirement of panel's specification.

Overall Dimensions

Height: 692 mm

Width: 944 mm

Depth: 261 mm



Environmental Requirements

This display shall meet the following environmental requirements under normal operating conditions.

Operating

25° ± 5° for Purity, White Point, Mis-convergence, Luminance measurements and White uniformity measurement

Operating temperature: 0°C to 35°C

Operating humidity: 10 % to 90 % (non-condensing)

Storage and Shipping

Storage temperature: -20°C to 60°C

Shipping temperature: -20°C to 60°C

Storage humidity: 10 % to 90 % (non-condensing)

Shipping humidity: 10 % to 90 % (non-condensing)

Altitude

Units tested at an altitude up to 12,000 feet must operate at normal conditions without exhibiting abnormal behavior such as arcing or shutdown.

Operating altitude: 0 to 12,000 feet

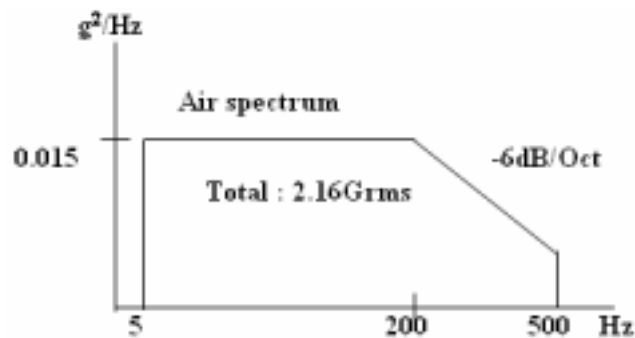
Shipping altitude: 0 to 40,000 feet

Storage altitude: 0 to 40,000 feet

Vibration Test

The packaged display shall be capable of passing sinusoidal vibration test as specified in follows.

A. Test condition as below :



B. The unit under test shall be run for a duration of 30 minute in each of following orientations :

- Top and bottom side (z axis).
- Left and right side (x axis).
- Front and rear side (y axis).

The unit shall suffer no visible cosmetic damage and should operate no degradation indisplay quality after test.

Additionally, prior to production and prior to implementation of any design or manufacturing change that might affect vibration performance, an minimum of 2 units shall be demonstrated to meet the requirements of specification.

Drop Test

The packaged display shall be capable of passing drop test as specified in following specification without any measurable degradation in performance or detectable mechanical or cosmetic damage.

Filter: 330 Hz

Dropping way: 1 corner, 3 edges, 6 flats

Dropping Height: follow the below table

Weight(kg)	Corner, edge, F, R, Btm(cm)	L, R, Up side(cm)
0~9	76	76
9~17	61	61
18~27	46	46
27~45	31	20
45~100	25	15

Additionally, prior to production and prior to implementation of any design or manufacturing change that might affect vibration performance, a minimum of 2 units shall be demonstrated to meet the requirements of specification.

VESA DDC

The VGA/HDMI inputs shall be capable of continuously transmitting its Extended Display Identification (EDID) information using Display Data Channel. It shall automatically switch to DDC2 mode if a DDC2 capable host is detected in accordance with the VESA DDC standard.

In addition, the display can respond to a request for EDID, to be transmitted using DDC2, level B commands. If a DDC2 capable host is detected by the display, the display shall switch to DDC2 communication.

The EDID shall contain the manufacture name code QCI, product code, date of manufacture, and serial number.

For complete EDID data structure, please refer to VESA Extended Display Identification Data Standard.

Hardware implementation may be either integrate into micro-controller or be a separate electrical component. EDID memory must be protected against writing or other corruption through customer-accessible electrical connection and required communication channels. Password protection, use of an unpublished enable register, or use of direct electrical connection is acceptable levels of protection provided that the power-on Default State is that disabling writing. The serial number fields in the EDID must contain a unique identifying numbers among units of the same model. EDID Table is defined as below:

For VGA input:

Product																
Revision																
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	0	FF	FF	FF	FF	FF	FF	0	4	72	2	32	0	0	0	0
1	2D	DF	1	3	68	46	28	78	E8	DC	10	A2	58	45	9C	25
2	13	49	4B	AF	EE	0	31	40	45	40	61	40	0	0	0	0
3	0	0	0	0	0	0	69	21	50	B0	51	0	1B	30	40	70
4	36	0	2	90	31	0	0	1E	0	0	0	FD	0	32	55	1E
5	50	8	0	0A	20	20	20	20	20	20	0	0	0	FF	0	30
6	30	30	30	30	0A	20	20	20	20	20	20	20	0	0	0	FC
7	0	61	63	65	72	20	41	54	33	32	30	32	0A	20	0	5A

For HDMI input (Optional)

Product																
Revision																
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	0	FF	FF	FF	FF	FF	FF	0	4	72	4	27	1	1	1	1
1	0	0F	1	3	80	3C	22	78	2A	3B	90	A7	54	46	98	24
2	10	49	4B	20	0	0	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1D	80	18	71	1C	16	20	58	2C
4	25	0	C4	8E	21	0	0	9E	0	0	0	FD	0	32	55	1E
5	50	0B	0	0A	20	20	20	20	20	20	0	0	0	FF	0	31
6	32	33	34	0A	20	20	20	20	20	20	20	20	0	0	0	FC
7	0	41	63	65	72	20	41	54	32	37	30	34	0A	20	1	41

Machine Disassembly and Replacement

General Information

This chapter contains step-by-step procedures on how to disassemble the AT3730B series for maintenance and troubleshooting. To disassemble the TV, you need the following tools:

Wrist grounding strap and conductive mat for preventing electrostatic discharge
Small Philips screwdriver
Philips screwdriver
Hexagonal screwdriver
Tweezers

Note:

The screws for the different components vary in size. During the disassembly process, please group the screws with the corresponding components to avoid mismatch when doing assembly. When you remove the boards, please be careful not to scrape them.

Warning!

The module is driven by high voltage. If you need to handle the module during operation or just after powered off, you must take proper precautions against electric shock and must not touch the drive circuit portion and metallic part of module within 10 minutes. The capacitors in the drive circuit portion remain temporarily charged even after the unit is powered off. If the residual voltage is strong enough, it could result in electric shock. Thus, we strongly suggest that you put on the wrist ground strap and put the component on the conductive mat or bag. Besides, please keep the unit grounded during the whole process of disassembly and assembly.

Before You Begin

Before you proceed with the disassembly procedure, make sure that you do the following steps:

- 1 Turn off the power to the TV and all peripherals.
- 2 Unplug the AC adaptor and all power and signal cables from the TV.



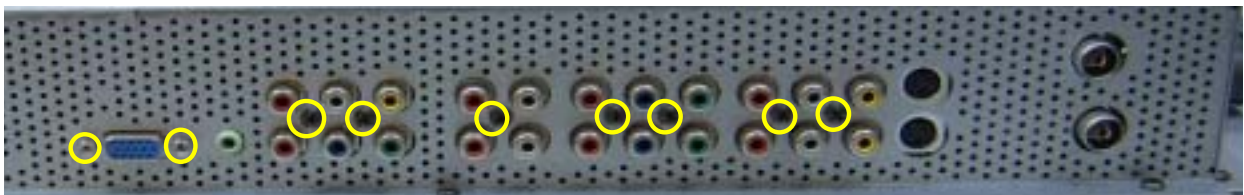
1. Remove 6pcs screws from base take off it.



2. Remove 8pcs screws from top of rear cover.



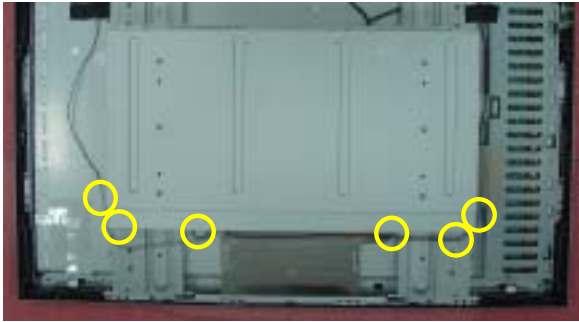
3. Remove 5pcs screws from bottom of rear cover and 2pcs screws from middle of rear cover and take off it.



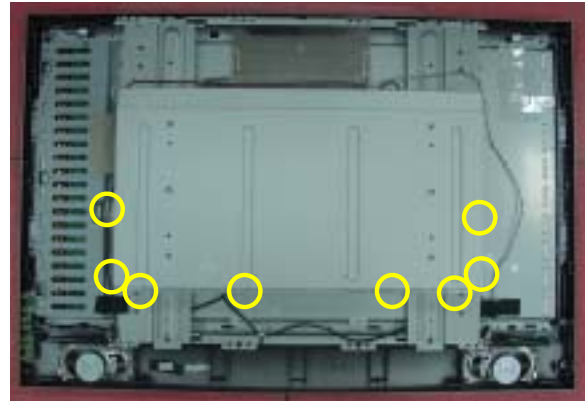
4. Remove 2pcs screw IO NUT from VGA joint and 7pcs screws from IO/B joint.



5. Remove 3pcs screws from clamp of B/B and 2pcs screws from HDMI joint.



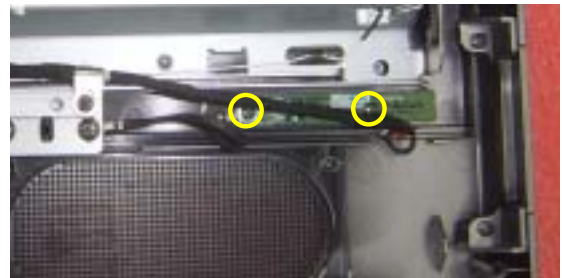
6. Remove 6pcs screws from top of shielding.



7. Remove 8pcs screws from bottom of shielding and take off it.



8. Remove 8pcs screws from speaker.



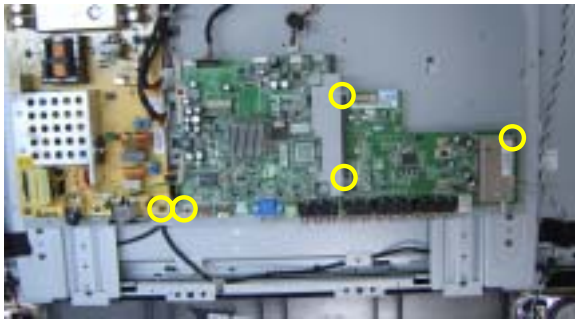
9. Remove 2pcs screws from IR/B.



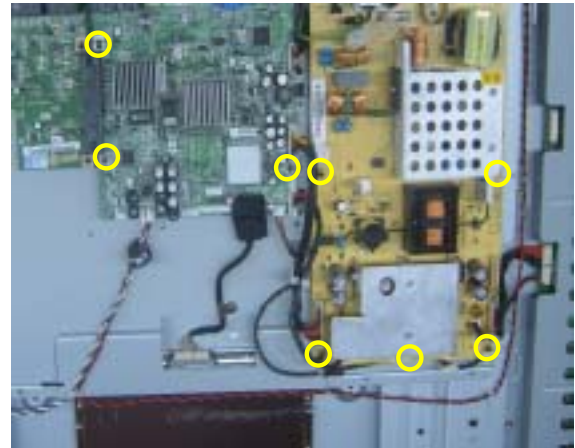
10. Remove 3pcs screws from TUNER/B and 2pcs screws from CPU/B.



11. Remove 3pcs IO NUT from IO/B and 2pcs IO NUT from CPU/B.



12. Remove 1pcs screw from P/B and 1pcs screw from M/B, then remove 3pcs screws from bracket and take off



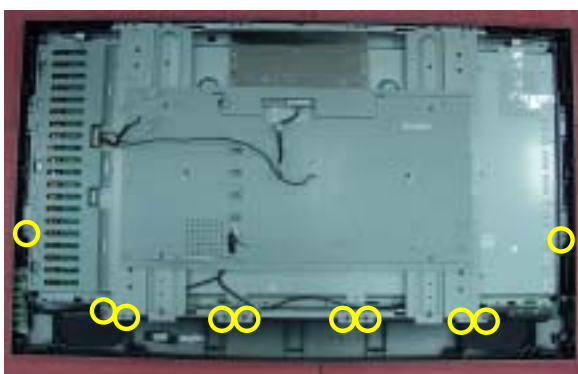
13. Remove 5pcs screws from P/B and 3pcs screws from M/B, then take off them.



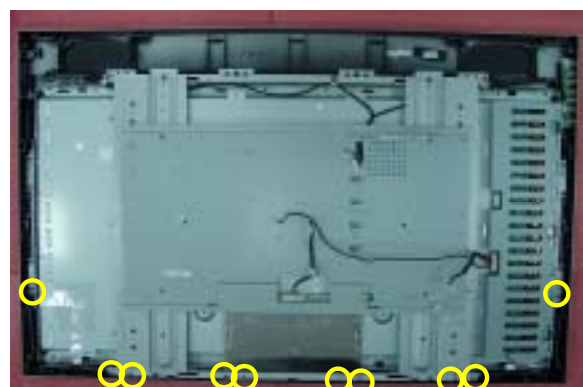
14. Remove 3pcs screws from P/B and take off it.



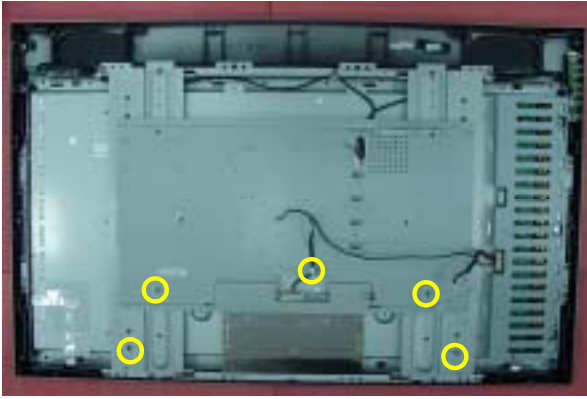
15. Remove 3pcs screws from B/B, and take off it.



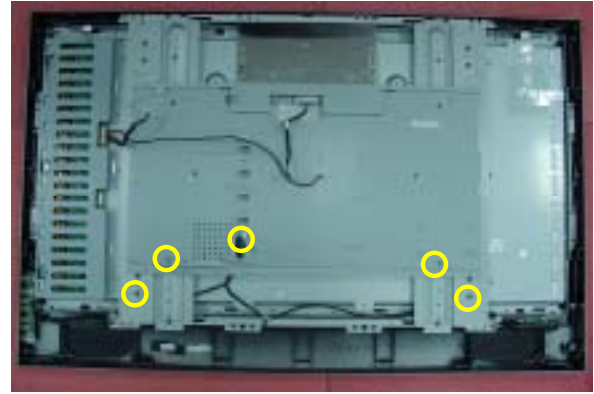
16. Remove 10pcs screws from panel.



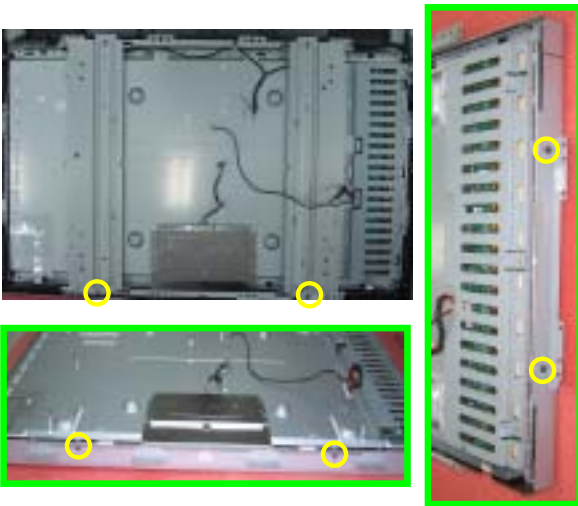
17. Remove 10pcs screws between panel and bezel.



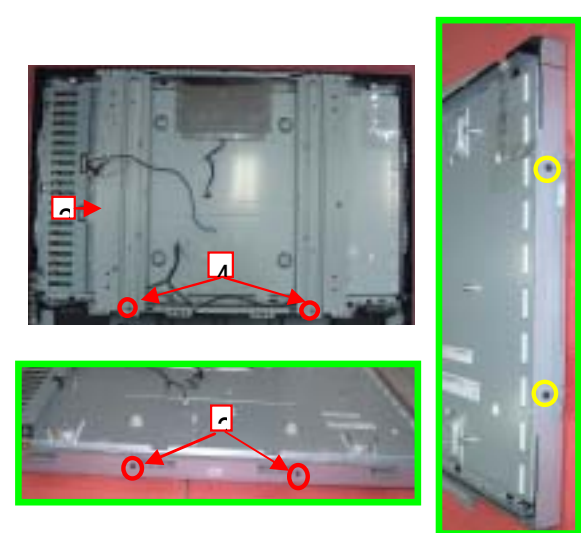
18. Remove 5pcs screws from panel bracket.



19. Remove 5pcs screws from panel bracket and GND cable of B/B.



20. Remove 6pcs screws from panel bracket.



21. Remove 6pcs screws from panel bracket, and take off it.

Troubleshooting

Use the following procedure as a guide for Acer LCD TV AT3730B series problems.

Note: The diagnostic tests are intended to test this model. Non-Acer products, prototype cards, or modified options could occur false errors and invalid system responses.

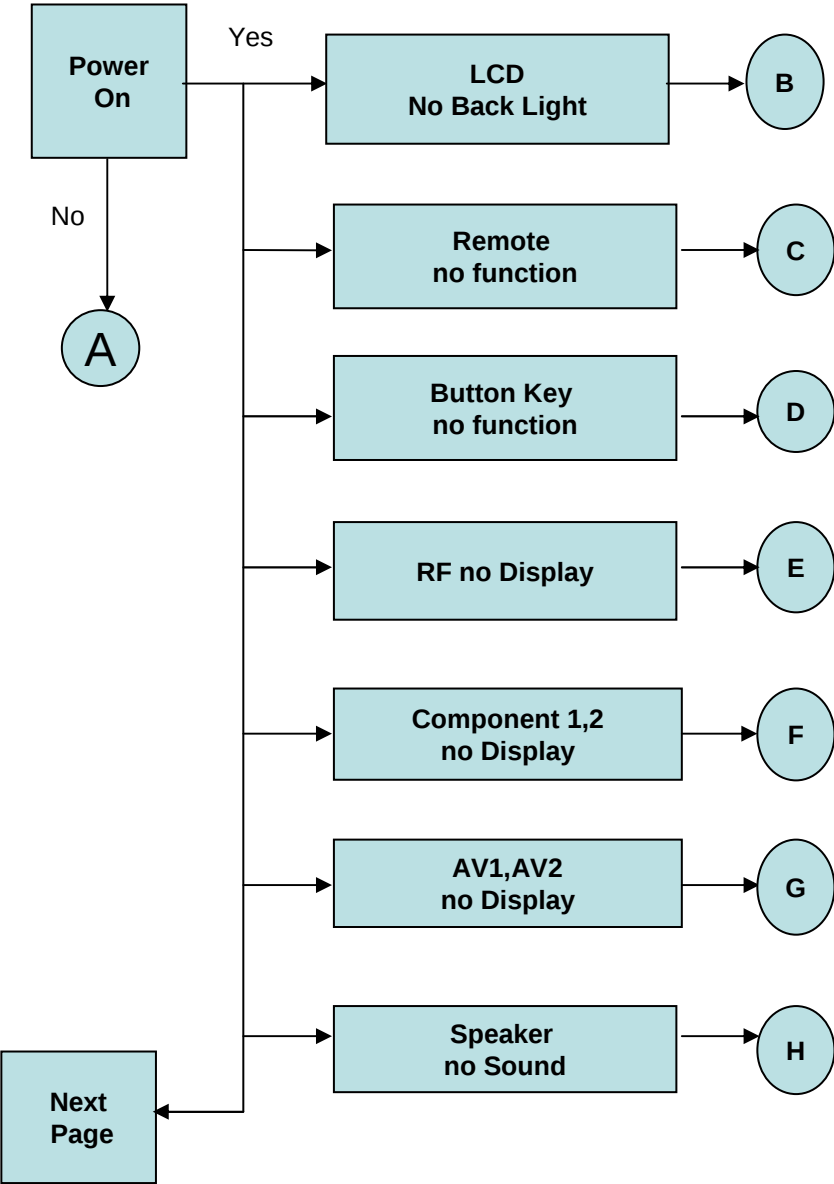
1. Duplicate symptom and obtain the failing symptoms in as much detail as possible.
2. Distinguish symptom. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Disassemble and assemble the unit without any power sources.
4. If any problem occurs, you can perform visual inspection before you follow this chapter's instructions.

You can check the following:

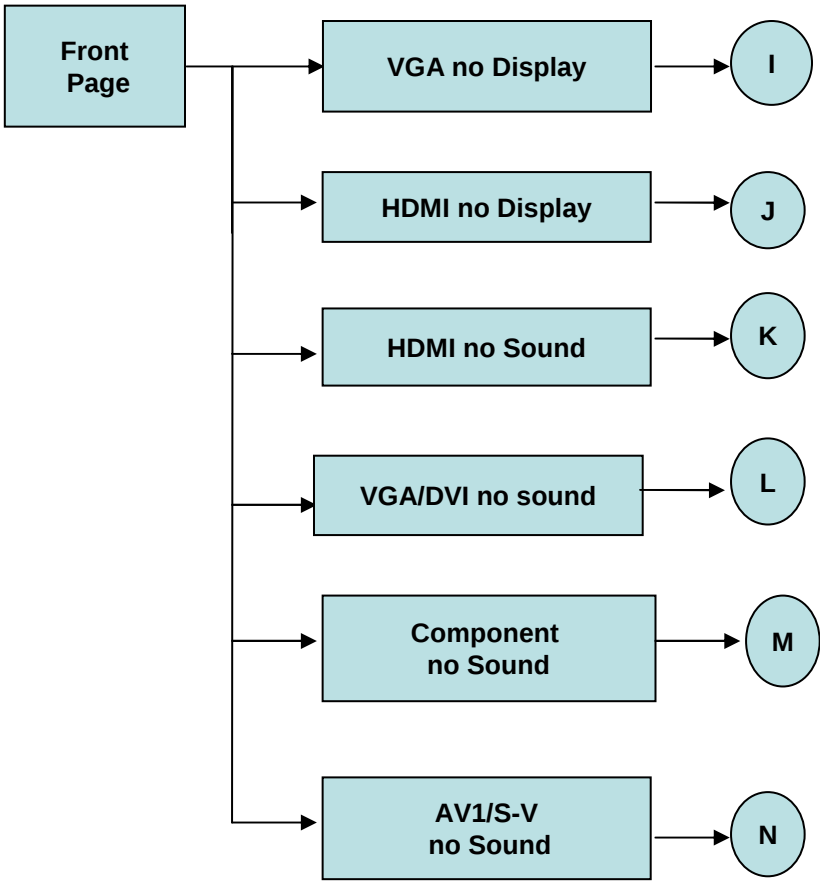
- Power cords are properly connected and secured;
- There are no obvious shorts or opens;
- There are no obviously burned or heated components;
- All components appear normal.

5. Use the following flow chart determine which part to be replaced.

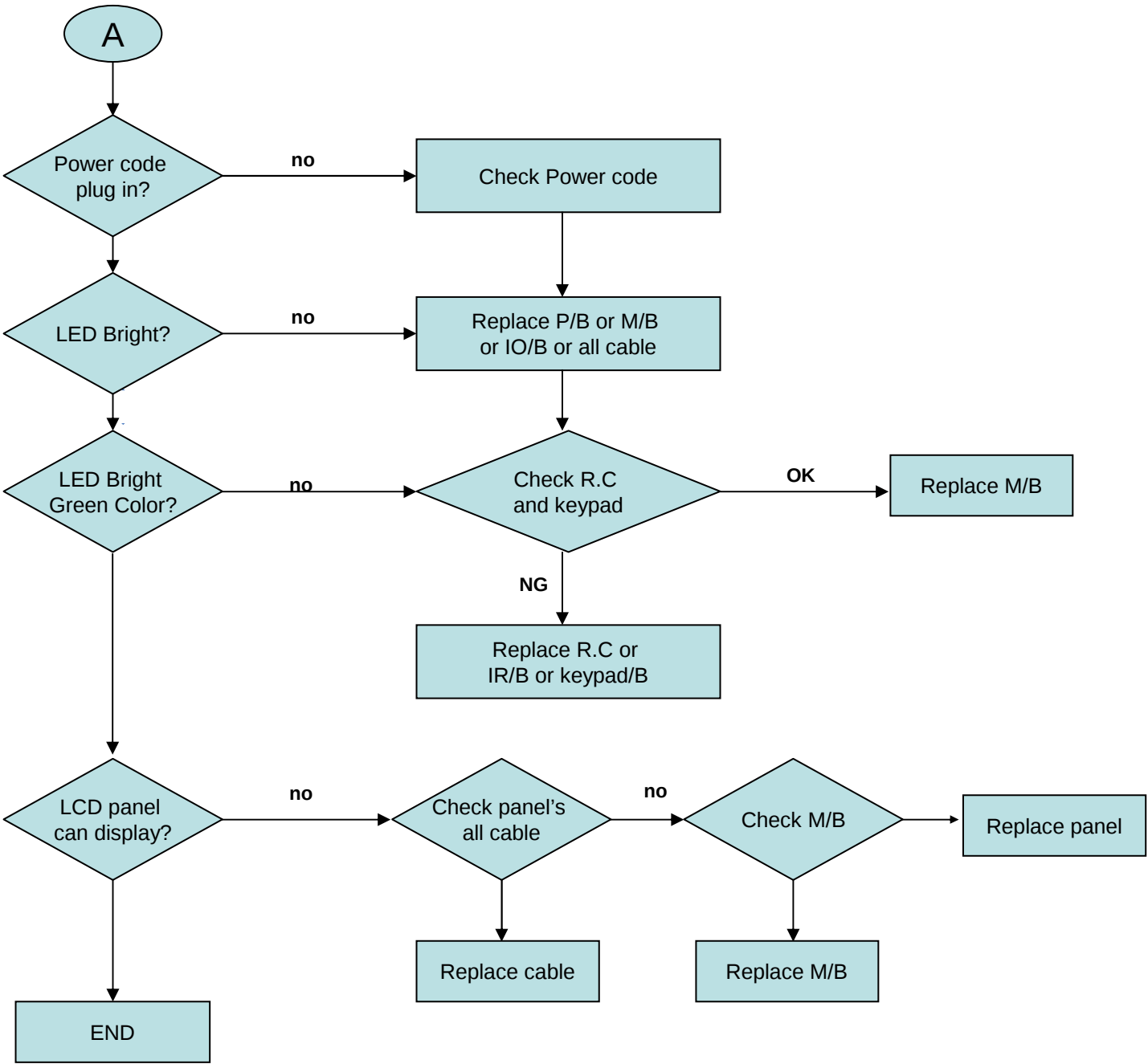
Problem List 1



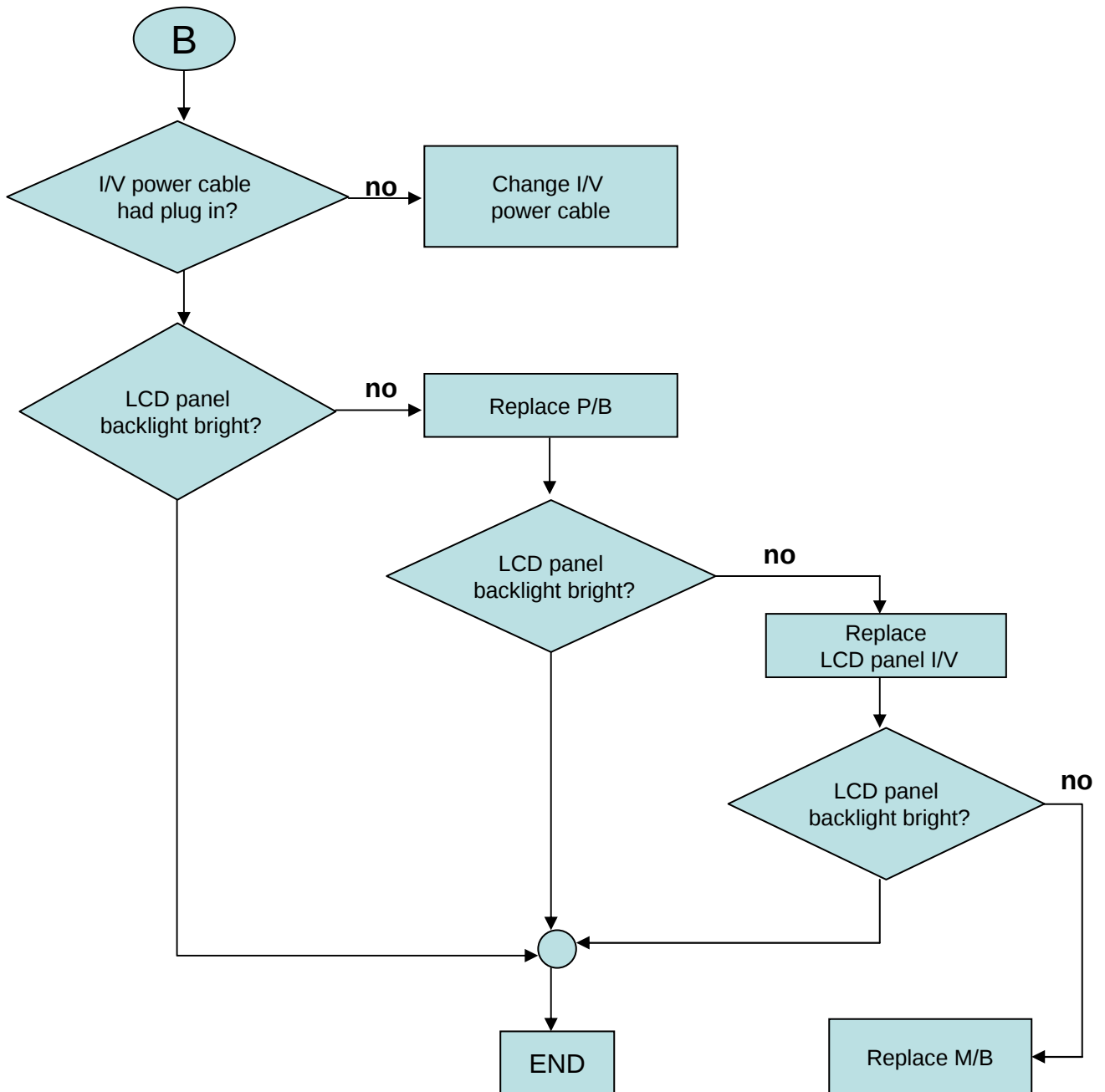
Problem List 2



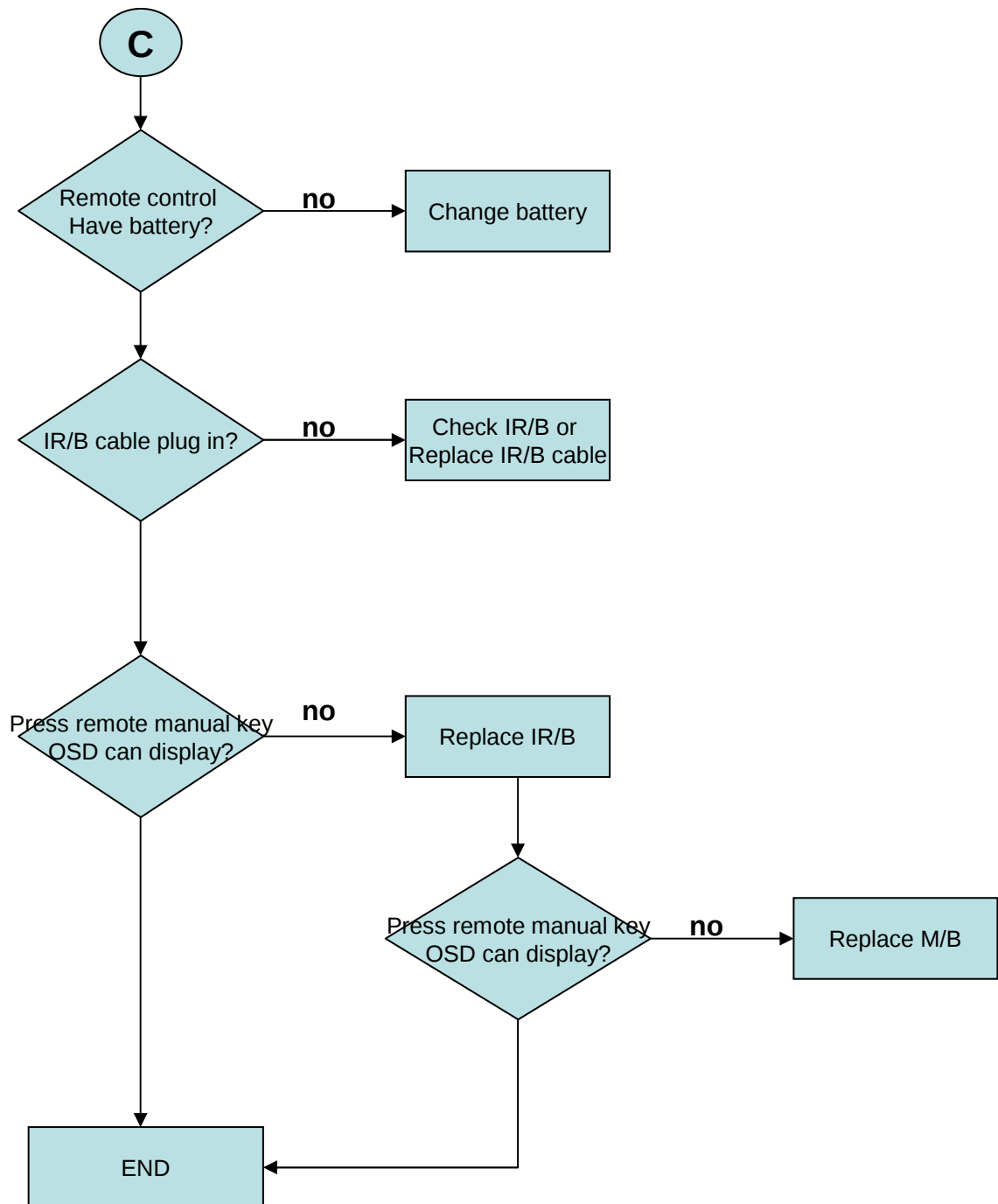
Can not power ON



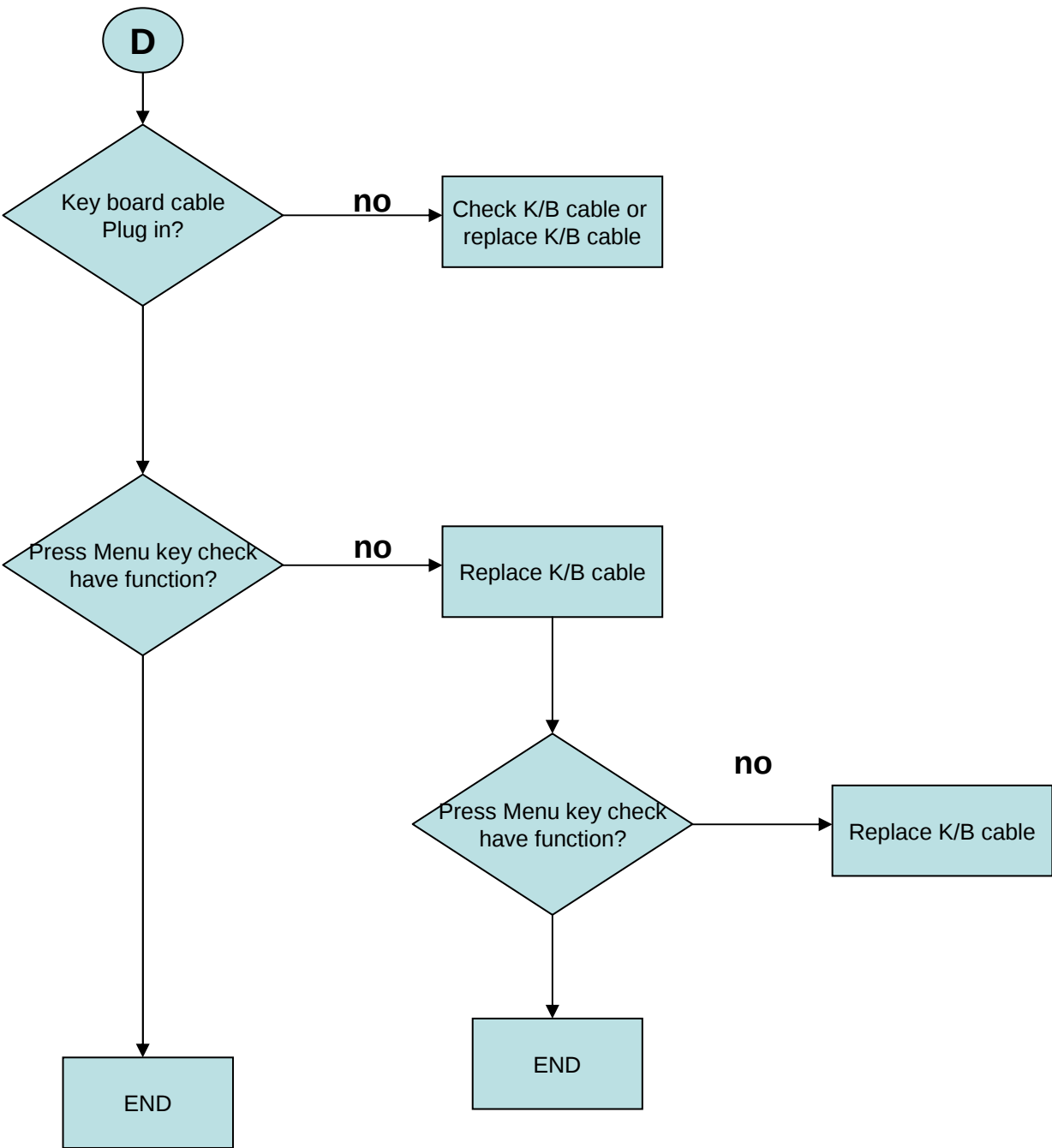
LCD No Back Light



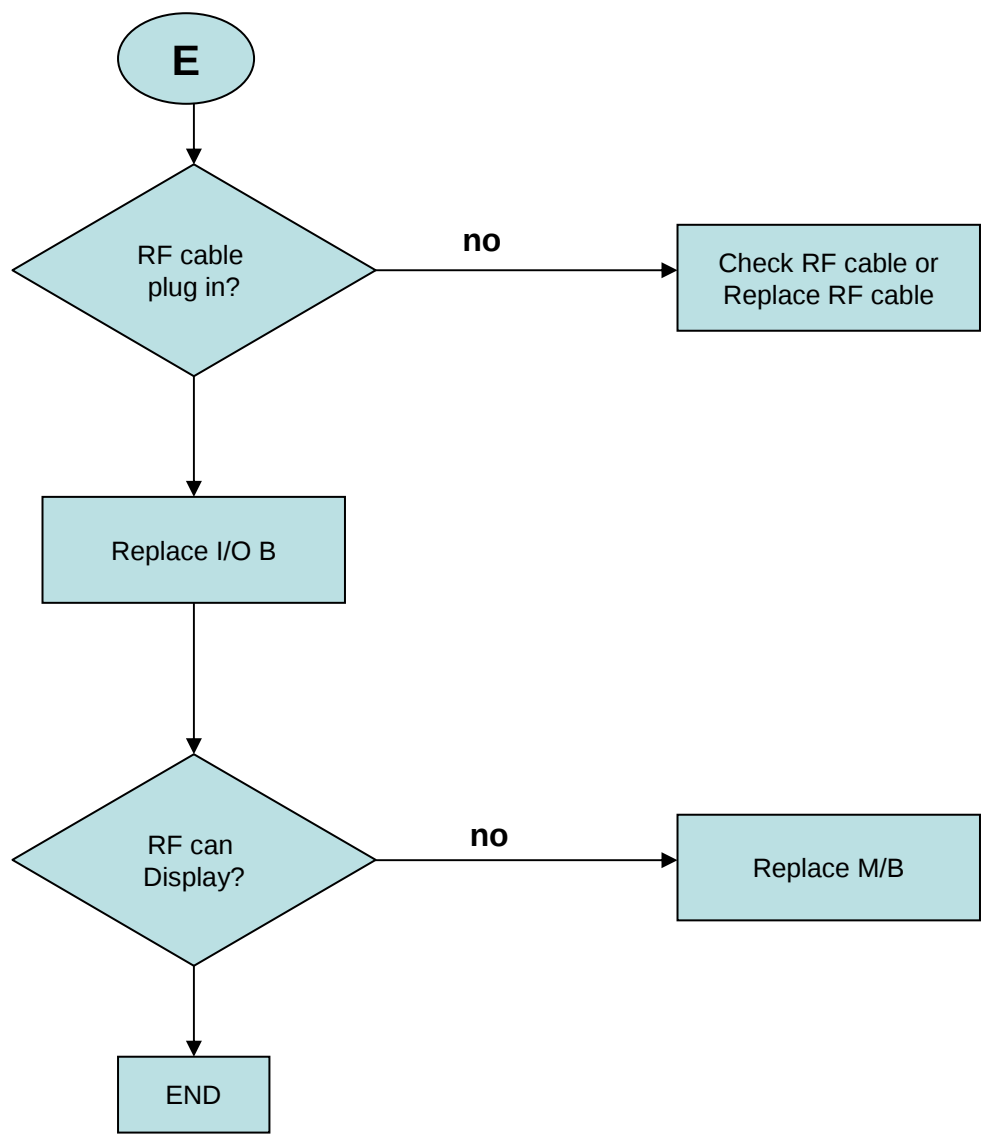
Remote no function



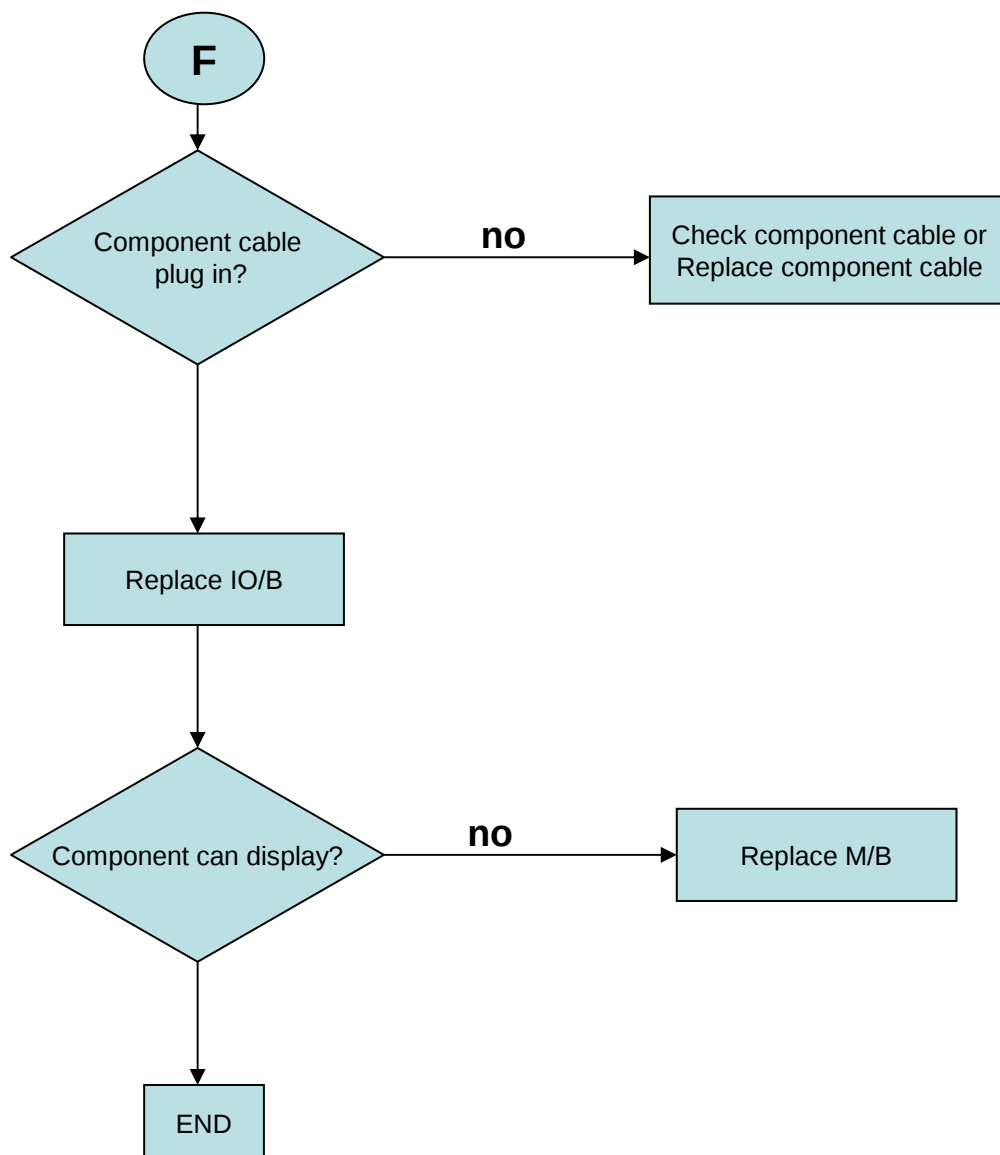
Button Key no function



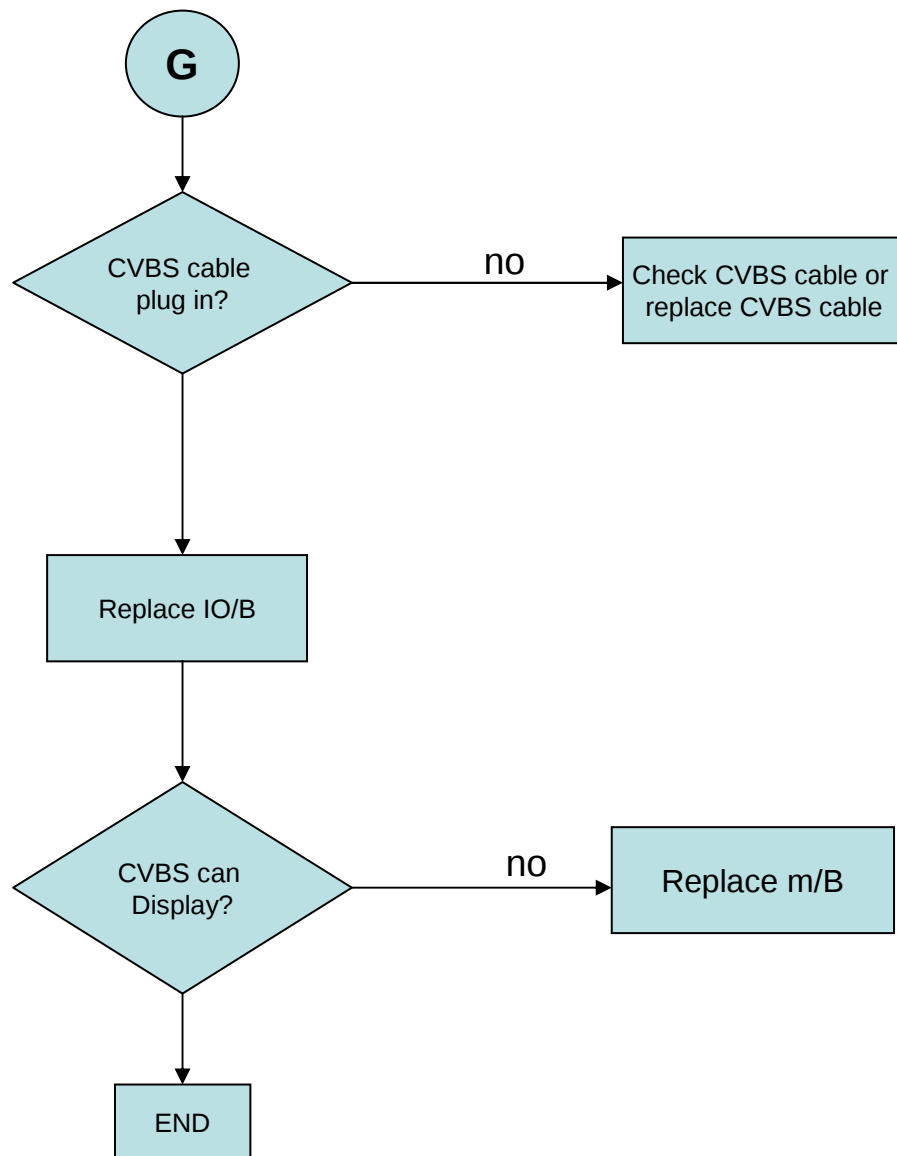
RF no Display



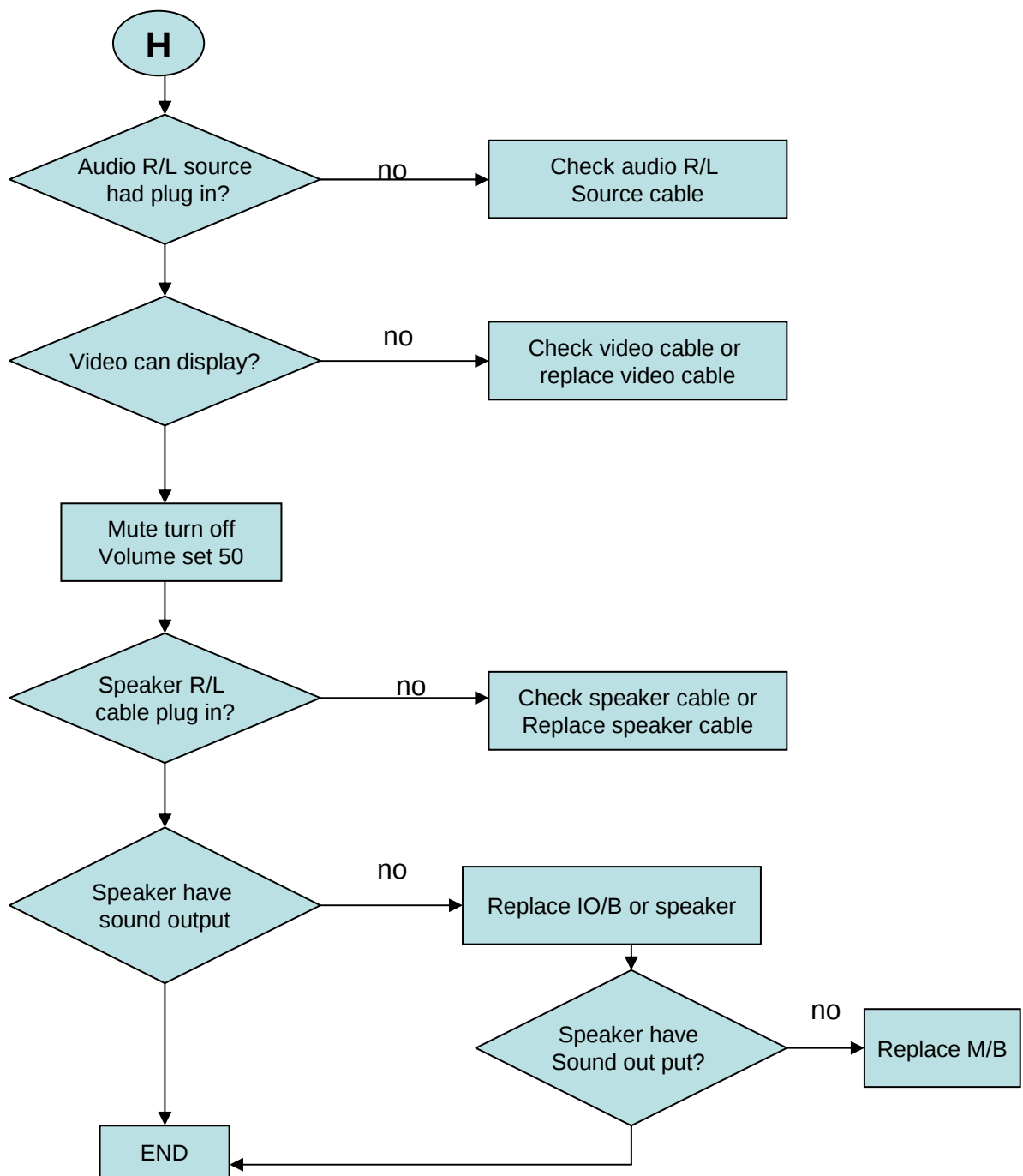
Component 1, 2 no Display



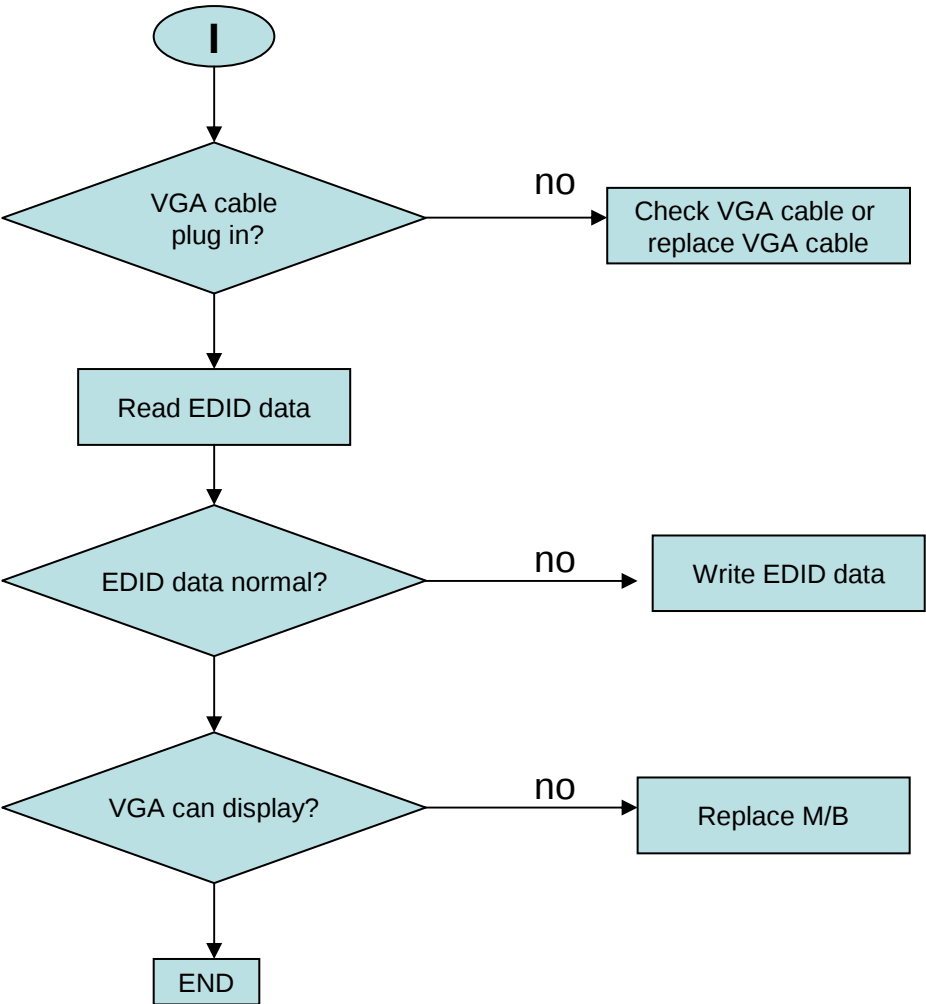
AV1,AV2 no Display



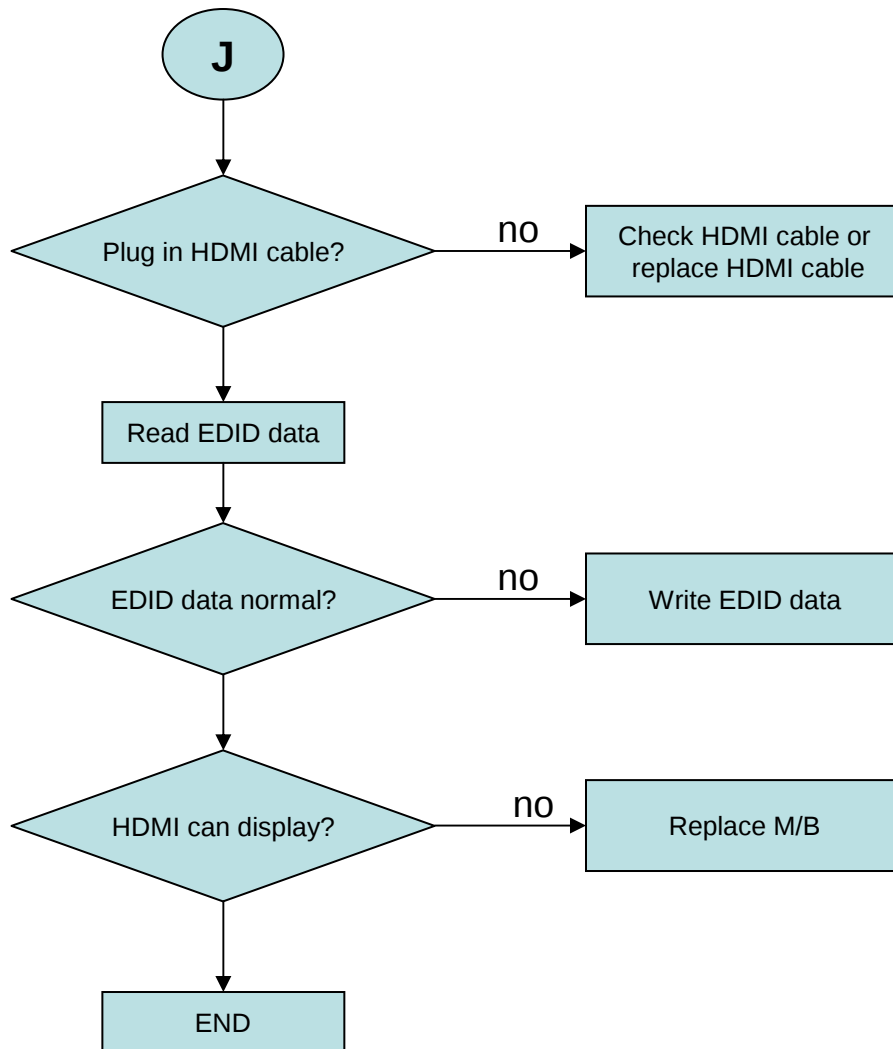
Speaker no Sound



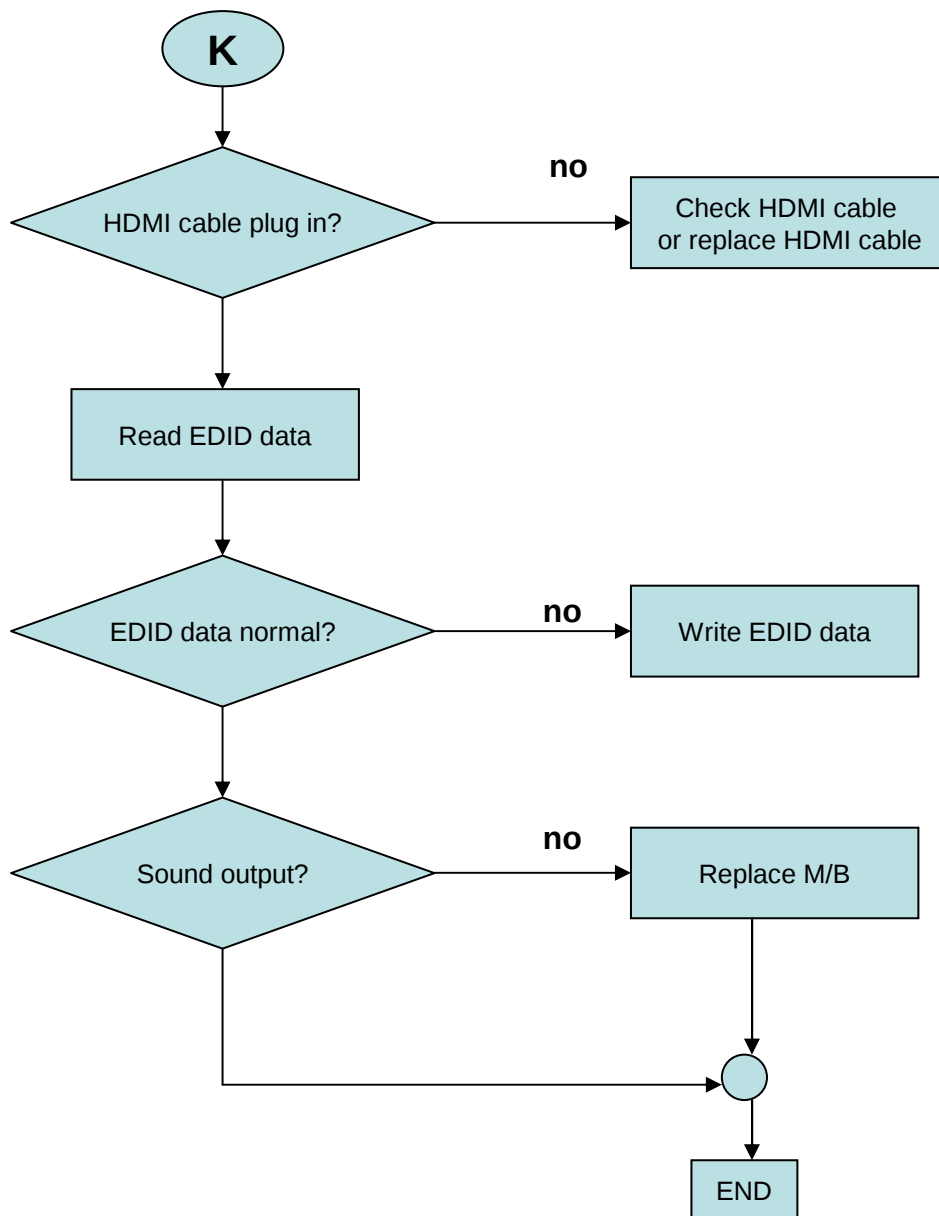
VGA no Display



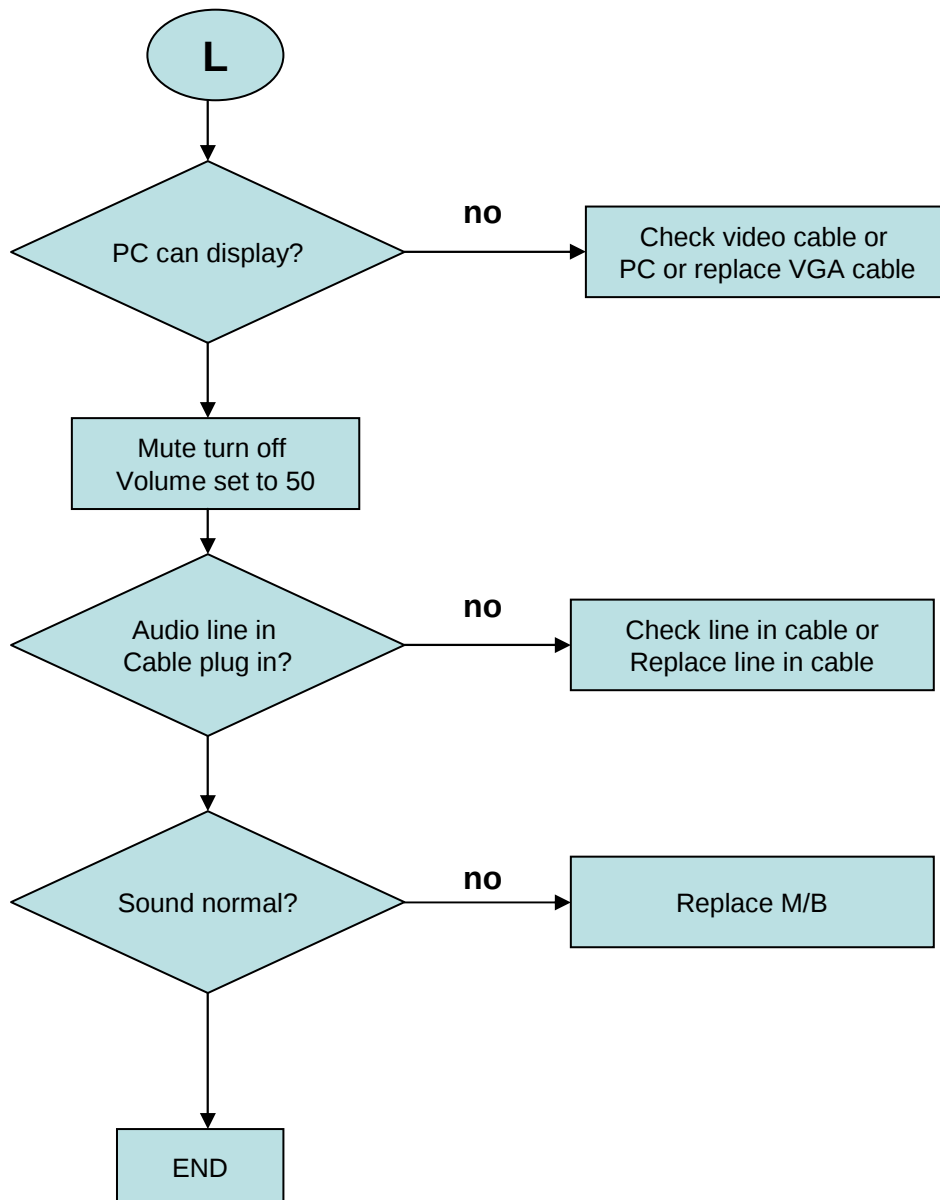
HDMI no Display



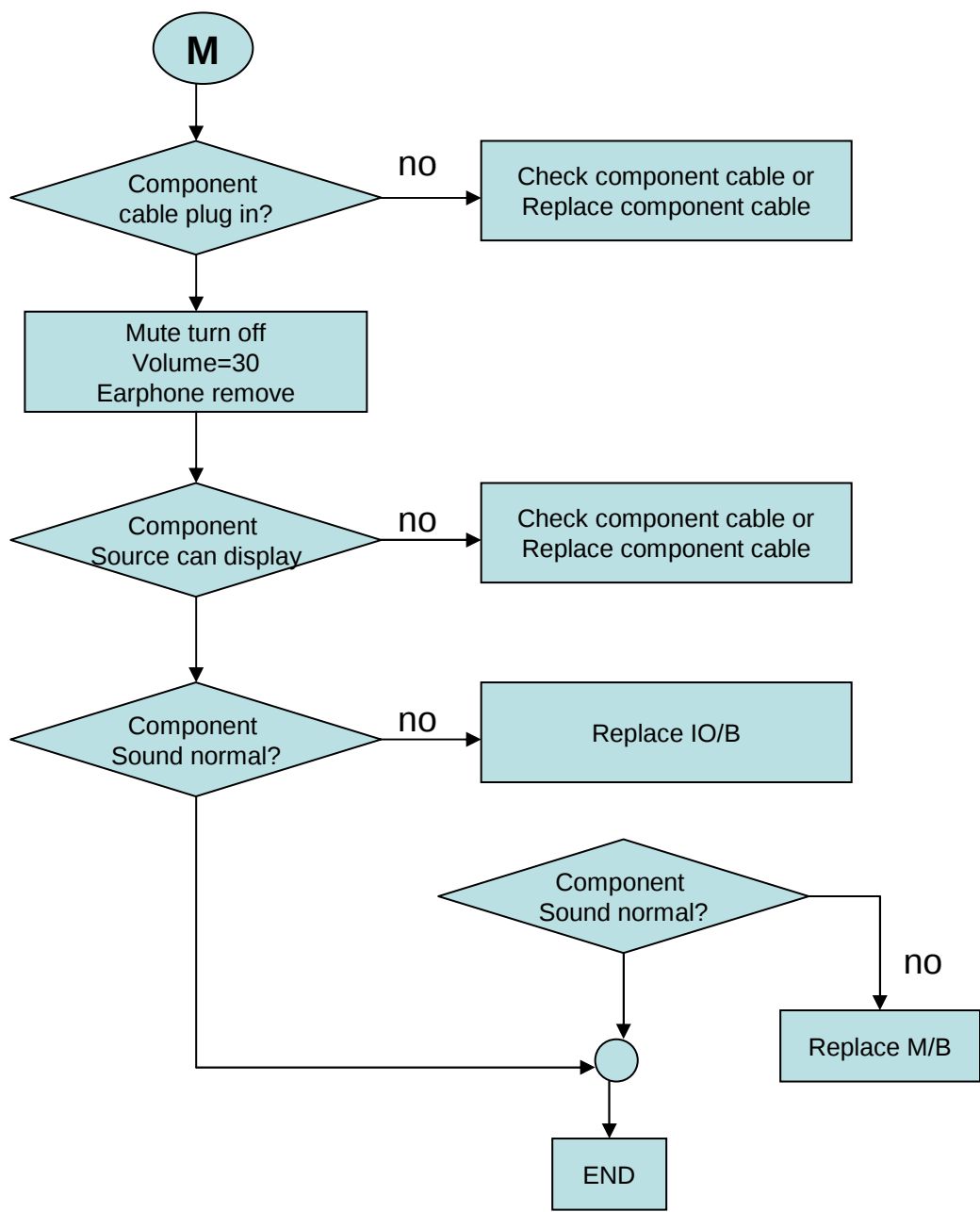
HDMI no Sound



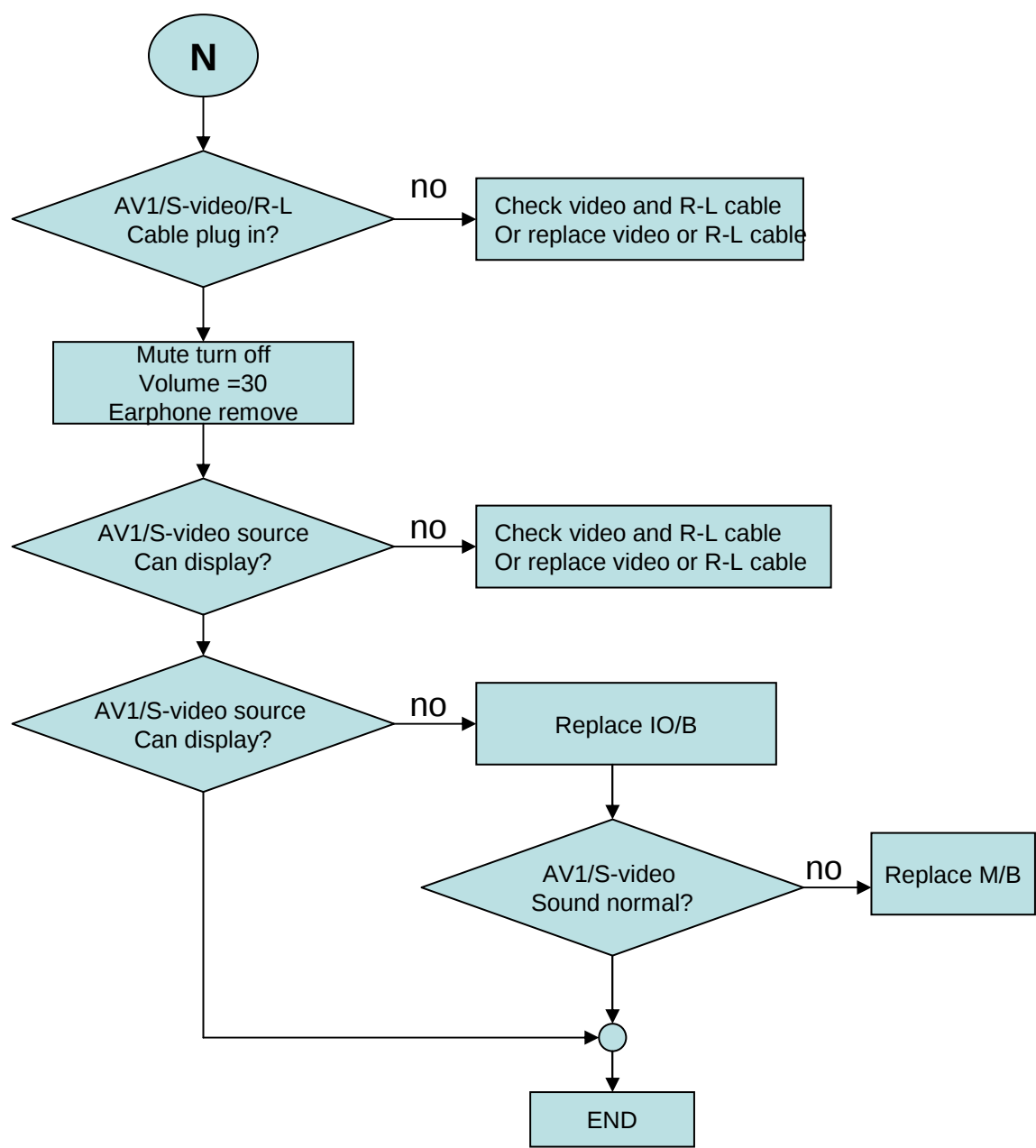
VGA no sound



Component no Sound



AV1 / S-V no Sound



FRU (Field Replaceable Unit) List

This section gives you the FRU (Field Replaceable Unit) list in global configurations of AT3730B series. Please refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization). Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will NOT be noted on the service guide. For Acer authorized service providers, your Acer office may have a different part number code from 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 for 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 to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

PARTS

Part Name	Description	TVE Part No.	Acer Part No.
Accessory			
REMOTE	REMOTE CONTROLLER (EURT54B006) GP	DQ754B00600	25.M4307.001
BATTERY	BATTERY LR03GW/2SK (ALKALINE 1.5V) GP	AHDALR03006	
IO&TUNER LABEL	LABEL (IO&TUNER) 7FPA(HC7FP001,REV3A)GP	HC7FP001010	40.M4407.001
BOARD			
MAIN/B	HV4E M/B ASSY(FOR 7FPA)AU GP	21HV4MB0030	55.M4407.001
IO/B	HH6A IO/B ASSY(PAL-AUSTRALIA) GP	22HH6IB0029	55.M12V7.005
TUNER/B	HH2 DVB-T TUNER/B ASSY(FOR 72PA) GP	29HH2TTB005	
CPU/B	VWA7 CPU/B ASSY(FOR74PA)HD DVB-T,AUS-A G	32VWACB0010	55.M4307.002
IR/B	JL7 IR/B ASSY(FOR HV7) GP	33JL7IB0014	55.M25V7.003
KEYPAD/B	JL7 KEYPAD/B ASSY GP	34JL7KB0001	55.M25V7.002
POWER/B	PWR 235W,DPS-235CP-2 A(90~264VAC) GP	AF235B00000	
Cable			
CABLE LVDS	CABLE 7FPA LVDS(50P/30P,220MM,REV1A)GP	DD7FPALC006	
CABLE INV	CABLE INVAU(14P/10P/4P,2A)HX4E GP	DDHX4EIV000	50.M34V7.003
CABLE SPEAK	CABLE SPEAKER(4P/2P/3P,R1A)HX7 GP	DD0HX7SP004	
CABLE MB/IR	CABLE MB/IR/BTN(10/9/8,R1A)HV7 GP	DD0HV7IR005	
CABLE P/MB/DT	CABLE P/MB/DT(14P/10P/8P,R1A)HX7 GP	DD0HX7TH106	50.M3507.004
CABLE AUDIO-PW	CABLE ASSY HV2 AUDIO-PW (8P/7P,1A)GP	DD0HV2AB007	
CABLE GND	CABLE ASSY HH2 GND(1P/1P,1A)GP	DD0HH2TH004	50.M12V7.007
CABLE MB/DT	CABLE MB/DT(80MM,36P/36P,3A)HV4E GP	DDHV4ETH301	50.M3507.005
PWR CORD	PWR CORD SP-502B+IS-14 3P 1.8M(AUST)B GP	DM333181T91	27.M12V7.001
Case / Cover / Bracket / Assembly			
LCD BEZEL ASSY	HV7 LCD-BEZEL ASSY GP	36HV7LBTN05	60.M24V7.001
BACK COVER	JL7J REAR-COVER ASSY GP	37JL7RCSA04	60.M24V7.002
STAND ASSY	HV7 STAND ASSY GP	27HV7SATN08	
STAND BASE	STAND BASE HV7E(EAHV7003,REV3A) GP	EAHV7003011	
STAND ROD BKT	STAND ROD BKT R/L HX7E(FBHX7001,REV3A)GP	FBHX7001015	
STAND BKT	STAND BRACKET-L AH2(FBAH2003,REV3C)GP	FBAH2003011	
	STAND BRACKET-R AH2(FBAH2004,REV3C)GP	FBAH2004017	
STANDOFF	STANDOFF M3L6.5 AH2(FBAH2007,REV3A) GP	FBAH2007016	86.M3507.001
STANDOFF	STANDOFF M3L29.4 AH2(FBAH2008,REV3A) GP	FBAH2008012	86.M3507.002
STANDOFF	STANDOFF M3L37.5 AH2(FBAH2009,REV3A) GP	FBAH2009019	86.M3507.003
PANEL BKT	LCD PANEL BKT UP HV7E(FAHV7006,REV3A) GP	FAHV7006011	33.M24V7.004
D-TUNNER BKT	D-TUNNER BKT AH2(FBAH2001,REV3A) GP	FBAH2001018	33.M3507.003
WIRE SADDLE CHA-4	WIRE SADDLE CHA-4 VV3(EBVV3006,REV3A) GP	EBVV3006014	

WIRE SADDLE MWS-7	WIRE SADDLE MWS-7 VV3(EBVV3010,REV3A) GP	EBVV3010011	
LCD			
LCD	LCD(TFT) 37.0" T370XW02 V5(WXGA) GP	AA0370XW102	
LCD	LCD(TFT) 37.0" T370XW02 V5 STN B/S GP	AA0370XW103	
SPEAKER			
SPEAKER ASSY	SPK ASSY HV2A H122CC50-51C-L(2P,1A) GP	DN22CC50005	23.M25V7.001
SPEAKER ASSY	SPEAKER ASSY AH2T H122CC50-51C-R(3P) GP	DN22CC50013	23.M25V7.002
LABEL			
LABEL (POWER)	LABEL (POWER) HV7N(HCHV7002,REV3A) GP	HCHV7002017	40.M24V7.001
LABEL (BUTTONS)	LABEL (BUTTONS) HV9(HCHV9006,REV3B) GP	HCHV9006010	
LABEL (IO&TUNER)	LABEL (IO&TUNER) 7FPA(HC7FP001,REV3A)GP	HC7FP001010	40.M4407.001
BOX LABEL	BOX LABEL(130WX150L)VT1(HCVT1004,R3A) GP	HCVT1004017	
RATING LABEL	RATING LABEL HV7(HCHV7005,REV3A)AT3720	HCHV7005016	
MISCELLANEOUS			
GASKET (LCD SUPPORT)	GASKET (LCD SUPPORT)HX7E(GBHX7002,3A) GP	GBHX7002011	
GASKET (IO SIDE)	GASKET (IO SIDE)HX7E(GBHX7001,REV3A) GP	GBHX7001015	
GASKET TUNER	GASKET TUNER ESD HX7E(GBHX7003,REV3A) GP	GBHX7003018	47.M24V7.001
SCREW			
SCREW	SCREW T4*12-B(BNI) GP	ME40120BJ24	86.M25V7.003
SCREW	SCREW T3*8-B(BNI) GP	MT30080BJ20	86.M08V7.007
SCREW	SCREW M4*10-P(BNI)SPRING+PLANE WASHE GP	MS40100PCF1	86.M24V7.001
SCREW	SCREW M3*6-B(BNI) GP	MM30060BJ25	86.M08V7.003
SCREW	SCREW M4*6-B(BNI) GP	MM40060BJ27	86.M25V7.005
SCREW	SCREW M4*6 P (NI) GP	MM40060PCE2	86.M01V7.002
SCREW	SCREW T3*8-B(BNI) GP	MT30080BJ20	86.M08V7.007
SCREW	SCREW F3.0*6-B(NI)GP	MF30060BBJ6	
SCREW	SCREW F3.0*8,B(BNI) GP	MF30080BJ27	
SCREW	SCREW M3*6-B(BNI) GP	MM30060BJ25	86.M08V7.003
SCREW	SCREW T4*7-B(NI) GP	MT40070BBJ5	
SCREW	SCREW M4.0*8-B(NI)GP	MM40080BBJ4	
NUT IO EA1	NUT IO EA1(MBEA1001,REV3D)GP	MBEA1001012	

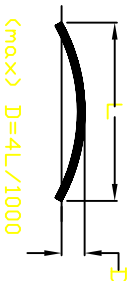
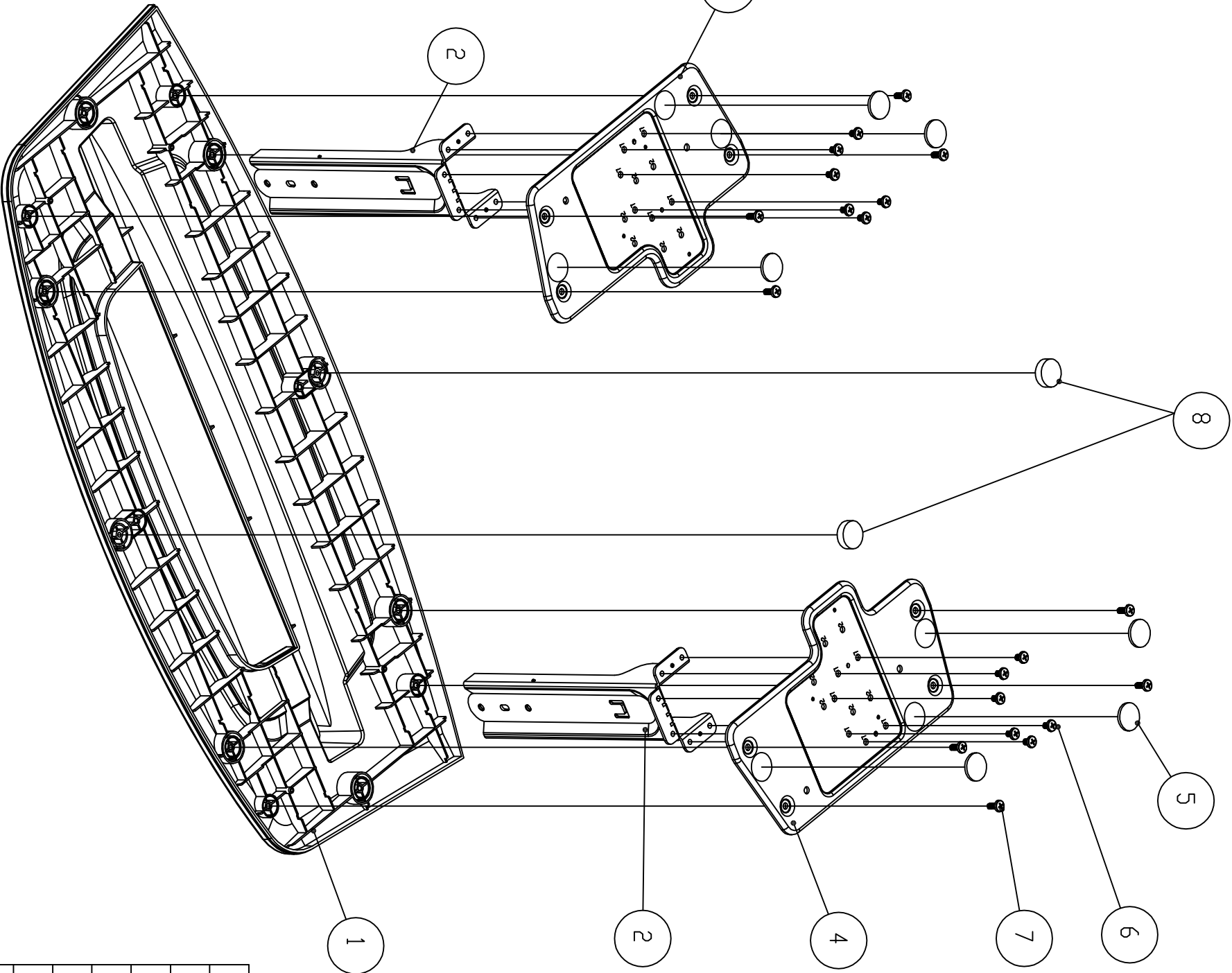
Exploded parts list

ITEM	PART NAME	DESCRIPTION	ACER PART NO.	QTY
>>STAND ASSY(27HV7SATN08)				
1	EAHV7003011	STAND BASE HV7E(EAHV7003,REV3A) GP		1
2	FBHX7001015	STAND ROD BKT R/L HX7E(FBHX7001,REV3A)GP		2
3	FBAH2003011	STAND BRACKET-L AH2(FBAH2003,REV3C)GP		1
4	FBAH2004017	STAND BRACKET-R AH2(FBAH2004,REV3C)GP		1
5	GAVV3001011	RUBBER FOOT VV3(GAVV3001,REV3A)GP		6
6	MT40070BBJ5	SCREW T4*7-B(NI) GP		8
7	MM40080BBJ4	SCREW M4.0*8-B(NI)GP		12
8	GAHX2001016	RUBBER FOOT HX2(GAHX2001,REV3A)GP		2
>>LCD BEZEL ASSY(36HV7LBTN05)				
1	EAHV7002015	FRONT BEZEL HV7E(EAHV7002,REV3C) GP		1
2	EBHV7004010	LED LENS HV7E(EAHV7004,REV3A) GP		1
3	EBHV7003010	IR LENS HV7E(EBHV7003,REV3A) GP		1
4	EBHV7002016	AV3 DUMMY FRAME HV7E(EBHV7002,3A) GP		1
5	FFVWE002012	LOGO ACER 32 VWE2(FFVWE002,REV3A)GP		1
6	HCHV9006010	LABEL (BUTTONS) HV9(HCHV9006,REV3B) GP		1
7	MF30060BBJ6	SCREW F3.0*6-B(NI)GP		1
8	MT30080BJ20	SCREW T3*8-B(BNI) GP	86.M08V7.007	2
9	JXHV2003015	WEAVE CUSHION 60X20 HV2(JXHV2003,R3A)GP		2
>> LCD PANEL ASSY(237FPLATN01)				
1	AA0370XW102	LCD(TFT) 37.0" T370XW02 V5(WXGA) GP		1
	AA0370XW103	LCD(TFT) 37.0" T370XW02 V5 STN B/S GP		1
2	DD7FPALC006	CABLE 7FPA LVDS(50P/30P,220MM,REV1A)GP		1
3	AF235B00000	PWR 235W,DPS-235CP-2 A(90~264VAC) GP		1
4	DDHX4EIV000	CABLE INVAU(14P/10P/4P,2A)HX4E GP	50.M34V7.003	1
5	MM40060BJ27	SCREW M4*6-B(BNI) GP	86.M25V7.005	2
>> LCD CHASSIS ASSY(247FPCSTN00)				
1	357FPCCKTN00	7FP CABLE KIT ASSY(&SPK) GP		1
2	EBHV7001010	FUNCTION KEY HV7E(EBHV7001,REV3A)GP		1
3	37JL7RCSA04	JL7J REAR-COVER ASSY GP		1
4	3AHV7LBTN01	HV7 LCD SUPPORT BKT-R ASSY GP		1
5	3BHV7LBTN01	HV7 LCD SUPPORT BKT-L ASSY GP		1
6	3CHX7PTBQ00	HX7E MAIN PCB TRAY ASSY GP		1
7	FAHV7006011	LCD PANEL BKT UP HV7E(FAHV7006,REV3A) GP		1
8	FBHH7004018	SIDE BRACKET-D/N HH7(FBHH7004,REV3B) GP		1
9	FBHH7007017	SIDE BRACKET-R/L-AUO HH7(FBHH7007,REV3A)		1
10	ME40120BJ24	SCREW T4*12-B(BNI) GP		41
11	MT30080BJ20	SCREW T3*8-B(BNI) GP		5

12	MS40100PCF1	SCREW M4*10-P(BNI)SPRING+PLANE WASHE GP		6
13	MM30060BJ25	SCREW M3*6-B(BNI) GP		465
14	MM40060BJ27	SCREW M4*6-B(BNI) GP		16
15	MM40060PCE2	SCREW M4*6 P (NI) GP		1
16	GBHX7003018	GASKET TUNER ESD HX7E(GBHX7003,REV3A) GP		1
17	JXHX7001016	CONDUCTIVE TAPE (INV.) HX7E(REV3A) GP		1
18	JXHX7002012	CONDUCTIVE TAPE (TOP)HX7E(REV3A) GP		1
19	HCHV7002017	LABEL (POWER) HV7N(HCHV7002,REV3A) GP	40.M24V7.001	1
>> FLOATING ASSY				
1	FA7FP001010	WALL MOUNT SHIELD 7FP(FA7FP001,REV3A)GP		1
2	MT30080BJ20	SCREW T3*8-B(BNI) GP		7
3	MBEA1001012	NUT IO EA1(MBEA1001,REV3D)GP		2
4	36HV7LBTN05	HV7 LCD-BESEL ASSY GP		1
5	FBAH2001018	D-TUNNER BKT AH2(FBAH2001,REV3A) GP	33.M3507.003	1
6	FBAH2007016	STANDOFF M3L6.5 AH2(FBAH2007,REV3A) GP	86.M3507.001	2
7	FBAH2008012	STANDOFF M3L29.4 AH2(FBAH2008,REV3A) GP	86.M3507.002	2
8	FBAH2009019	STANDOFF M3L37.5 AH2(FBAH2009,REV3A) GP	86.M3507.003	1
9	MM30060BJ25	SCREW M3*6-B(BNI) GP	86.M08V7.003	2

REVERSIONS		
LTR	DESCRIPTION	DATE

NO.	PART NO.	PART NAME	Q'TY
1	EAHV7003011	STAND BASE HV7E	1
2	FBHX7001015	STAND ROD BKT R/L HX7E	2
3	FBAH2003011	STAND BRACKET-L AH2	1
4	FBAH2004017	STAND BRACKET-R AH2	1
5	GAVV3001011	RUBBER FOOT VV3	6
6	MT40070BBJ5	SCREW T4*7-B(NI)	8
7	MM40080BBJ4	SCREW M4.0*8-B(NI)	12
8	GAHX2001016	RUBBER FOOT HX2	2



MATERIAL REQUEST		2		
ROHS	OTHERS	1	27HV7SATN08	HV7 STAND ASSY
V		ITEM	PART NO.	DESCRIPTION
UNIT : MM		Quanta Computer Inc.		
RANGE	TOLERANCE	NAME	HV7 STAND ASSY	
0-10	±0.10	TOL. ±	1 PLC	2 PLC
10-50	±0.15	MATERIAL		ANGLE
50-100	±0.20	FINISH		UNIT
100-	±0.25			SCALE
				1:4
				DRAWN
				DATE
				20060530
				REV. 3A
				1/1



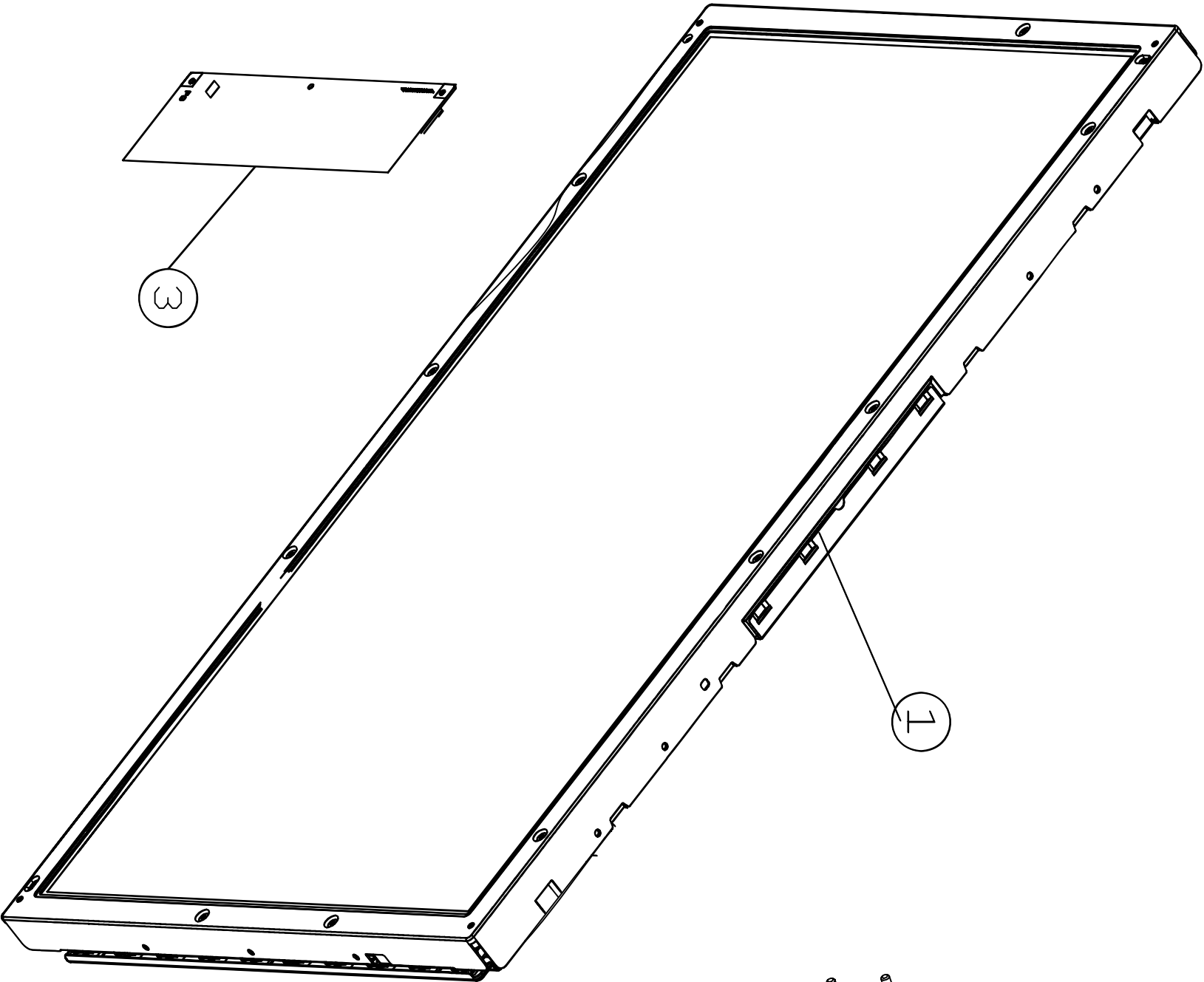
THE 3RD PROJECTION

DWG. NO.

27HV7SA0

1/1

REVERSIONS			
LTR	DESCRIPTION	DATE	APP.



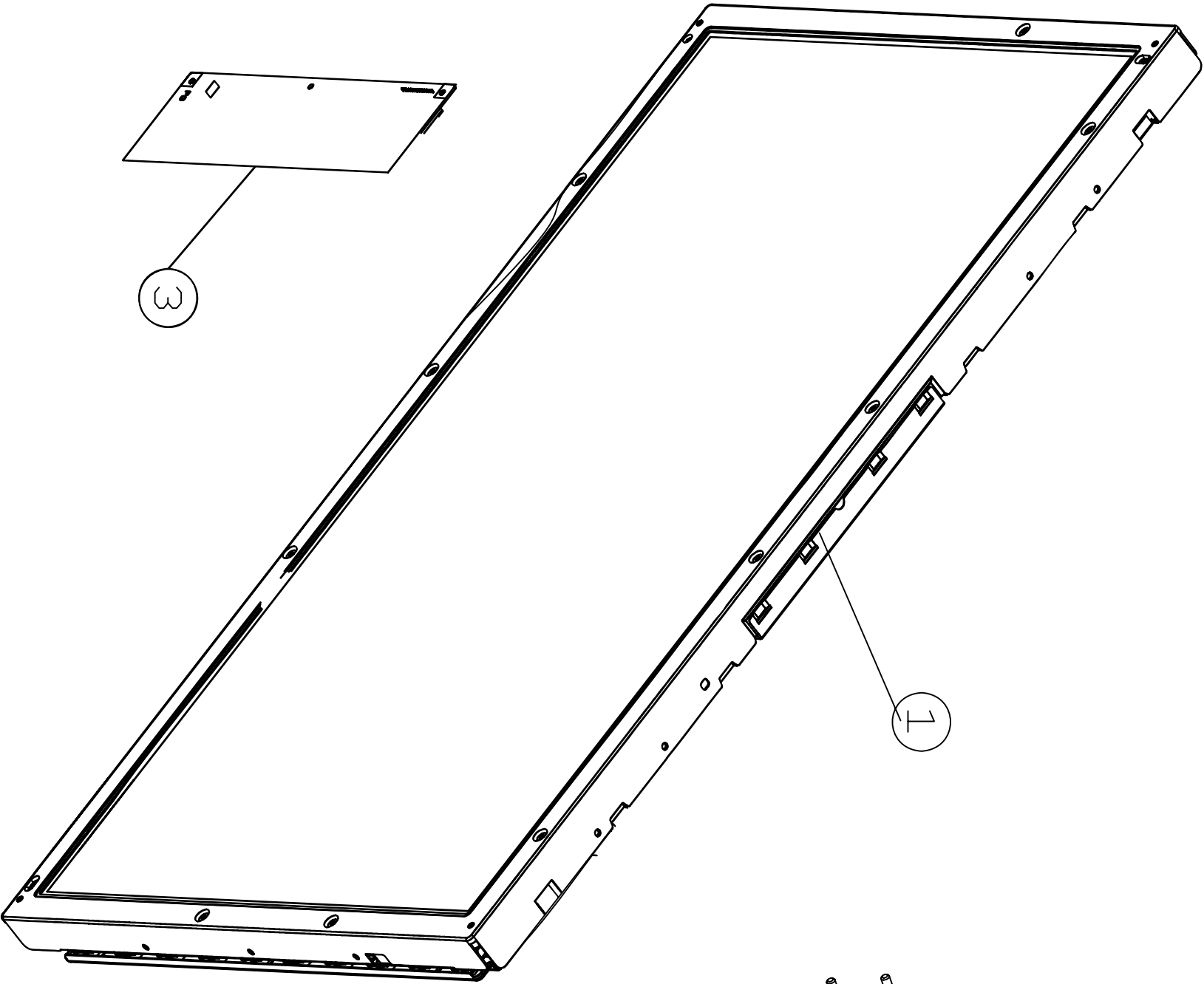
05	MM40060BJ27	SCREW M4*6-B(BIN) GP	2
04	DDHX4EIV000	CABLE INVAU(14P/10P/4P,2A)HX4E GP	1
03	AF235B00000	PWR 235W,DPS-235CP-2 AK90-264VAC) GP	1
02	DD7FPALC006	CABLE 7FPA LVDS(50P/30P,220MM,REV1A)GP	1
01	AA0370XW005	LCD(FT) 37.0" T370XW01 V1	1
ITEM	QUANTA P/N	DESCRIPTION	Q'TY

1	237FP0LD007	7FP LCD ASSY ASSY(37"AU) V105 GP
ITEM	PART NO.	DESCRIPTION

Quanta Computer Inc.		MODEL	ZEPHA	

RANGE	TOLERANCE	PARTS NAME	7FP LCD ASSY ASSY(37"AU) V105 GP	APPROVED	
0-10	0.10	TDL	1 PLC 2 PLC 3 PLC	DESIGNED	
10-50	0.15	MATERIAL		DRAWN	CONNIE
50-100	0.20	FINISH		DATE	20070526
100-	0.25	FINISH		REV.	3A
		The 3D Projection	DWG NO.	237FP0LD0	1/1

REVERSIONS			
LTR	DESCRIPTION	DATE	APP.



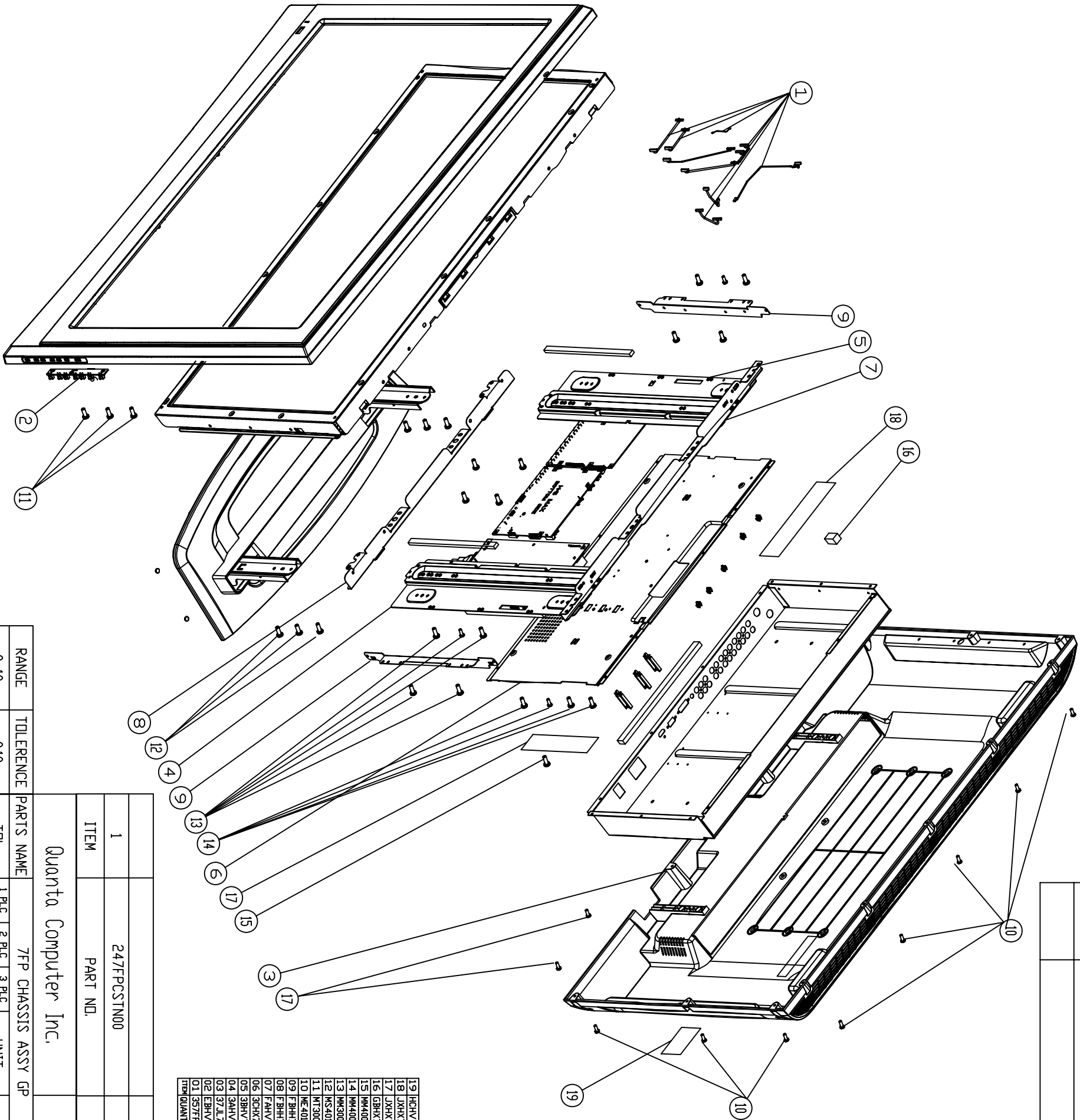
06	JX7FP001015	TAPE 210*25 7FP(JX7FP001,REV3A)	GP	1
05	JXVT1003011	EMI TAPE VT(JXVT1003,REV3A)	GP	1
04	DDHX4ELV000	CABLE INV(AU(4P/10P/4P,2A)HX4E	GP	1
03	AF235B00000	PWR 235W,DPS-235CP-2 AK90-264VAC)	GP	1
02	DD7FPALC006	CABLE 7FPA LVDS(50P/30P,220MM,REV1A)	GP	1
01	AA0370XW102	LCD(FT) 370" T370XW02 V5GWXGA)	GP	1
ITEM	QUANTA P/N	DESCRIPTION		Q'TY

1	237FPLATN01	7FP LCD ASSY ASSY(37"AU)	GP
ITEM	PART NO.	DESCRIPTION	

Quanta Computer Inc.		MODEL	
			7FPA

RANGE	TOLERANCE	PARTS NAME	7FP LCD ASSY ASSY(37"AU)	GP	APPROVED	
0-10	0.10	TDL	1 PLC	2 PLC	3 PLC	DESIGNED
10-50	0.15	MATERIAL				DRAWN
50-100	0.20	FINISH				REV.
100-	0.25		The 3D Projection	DWG NO.	237FPLA0	1/1

REVERSIONS			
LTR	DESCRIPTION	DATE	APP.



19	HCXV7002012 LABEL, GRINDER HV7N	1	
18	JHXV7002012 CONDUCTIVE TAPE(TOP)	1	
17	JHXV7001016 CONDUCTIVE TAPE(BOT)	1	
16	GBXV7003018 GASKET THER ESD HV7E	1	
15	HM40060PCE2 SCREW M4X6 P/NID	1	
14	HM40060B J27 SCREW M4X6 B-BAND	16	
13	HM30060B J25 SCREW K2X6 B-BAND	46	
12	MS40100P-CF1 SCREW M4X10-P/BANDSPRING AND PLATE WASHERS	5	
11	MT30080B J20 SCREW T2X8-BAND	41	
10	ME40120B J24 SCREW T4X12-BAND	2	
09	FBHV7007017 SIDE BRACKET-RL-AND HV7	2	
08	FBHV7004018 SIDE BRACKET-L-AND HV7	1	
07	FAHV7006011 LCD PANEL, BKT, UP, HV7E	1	
06	SCXHV7B0001 HV7E MAIN PCB TRAY ASSY	1	
05	3BHV7L BTND01 HV7 LCD SUPPORT, BKT-L, ASSY	1	
04	3AHV7L BTND01 HV7 LCD SUPPORT, BKT-R, ASSY	1	
03	37JL7RCS04 J27J REAR-COVER ASSY GP	1	
02	EBHV7001010 FUNCTION KEY HV7E	1	
01	357FPCSTN00 77P CABLE KIT ASSY(KSPRO GP	1	
ITEM	QUANTA P/N	DESCRIPTION	QTY

1	247FPCSTN00	77P CHASSIS ASSY GP
ITEM	PART NO.	DESCRIPTION
Quanta Computer Inc.		77P

RANGE	TOLERANCE	PARTS NAME	77P CHASSIS ASSY GP	APPROVED	
0-10	0.10	TOL	1. PLC 2. PLC 3. PLC	DESIGNED	
10-50	0.15	MATERIAL		DRAWN	CONNIE
50-100	0.20	FINISH		DATE	20070526 REV. 3A
100-	0.25		The 3D Projection DWG. NO.	247FPCSTN00	1/1

