

Acer AT4250B 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 AT4250B service guide.

Date	Chapter	Updates
2007/10/29	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: 1920x1080

20 CCFTs Backlight system

Display area: 42inches

Display color: 16.7 M colors

Input Signal: 2-ch LVDS

Contrast ratio: 1200:1 (Typical)

Dynamic Contrast ratio: 6000:1 (Typical)

Brightness: 500 Cd/m² (Typical)

Response Time: 6.5 ms

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

I/O functions

21 pin Euro-SCART (RGB) for Video, S-Video, R.G.B. and Audio

21 pin Euro-SCART (RGB) for Video, S-Video, R G B and Audio

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

15 pin D-Sub for VGA

19 pin D-Sub for HDMI *2

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

3.5 mm Earphone jack for Audio Line input

Broadcasting TV signal

PAL color system Receivable only

Full frequency range From channel 1 (48.25 MHz) to channel 57 (863.25 MHz)

TV system support: B/G/D/K/I

Sound system: FM MONO

Stereo & multi sound system support: NICAM, FM-A2

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 / zoom / PIP / POP

Mechanical

VESA mounting holes

Compatibility

Multi-Sound system

NICAM

FM Stereo (A2)

Power Source

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

Input current: 2.7A max. at 100Vac.

Power consumption: 291Watts

Stand-by: 5 Watts Max.

Remote controllers

Multi-function remote controller

Speaker

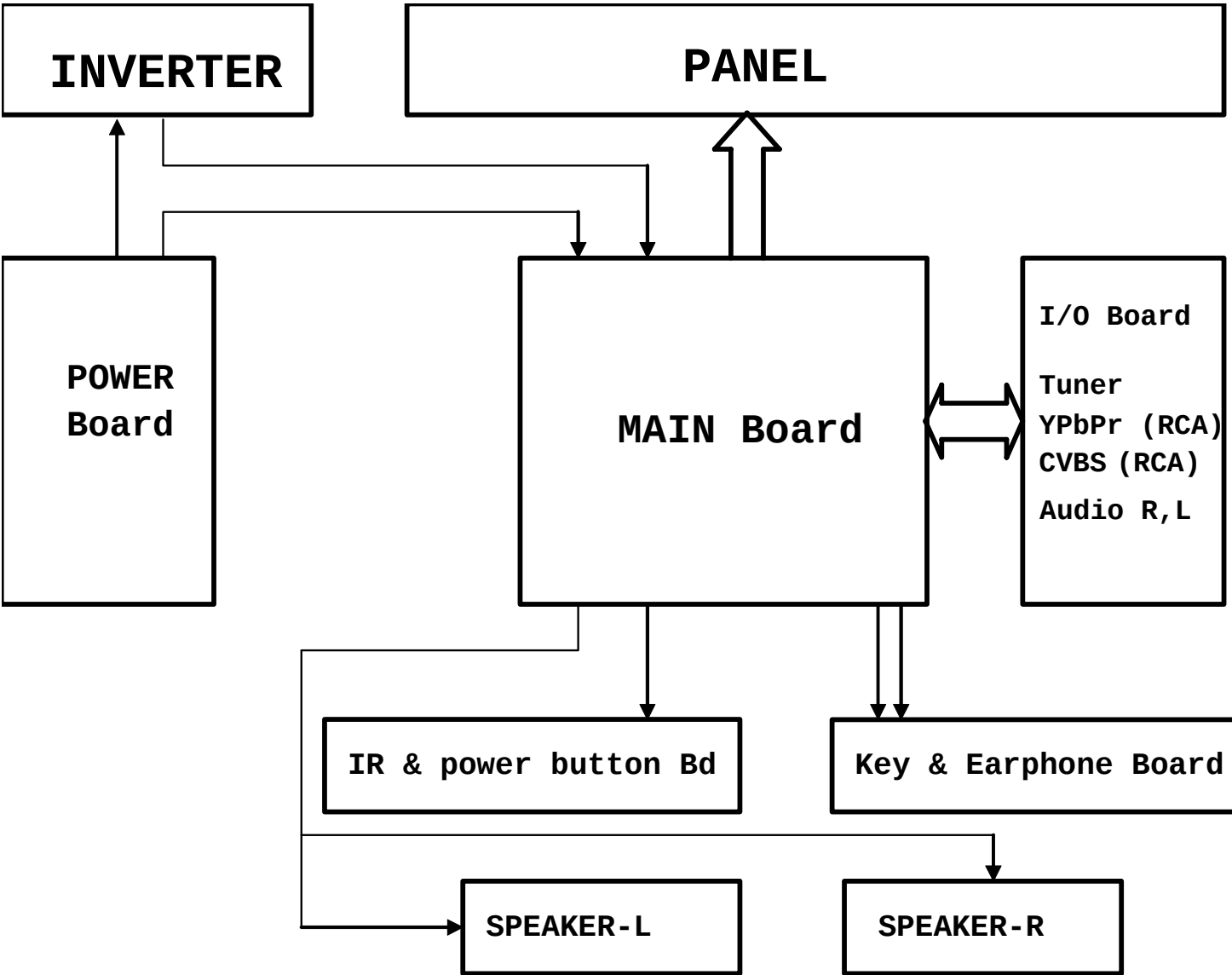
Internal speaker: 10 W x 2 stereo, volume adjustable

Others

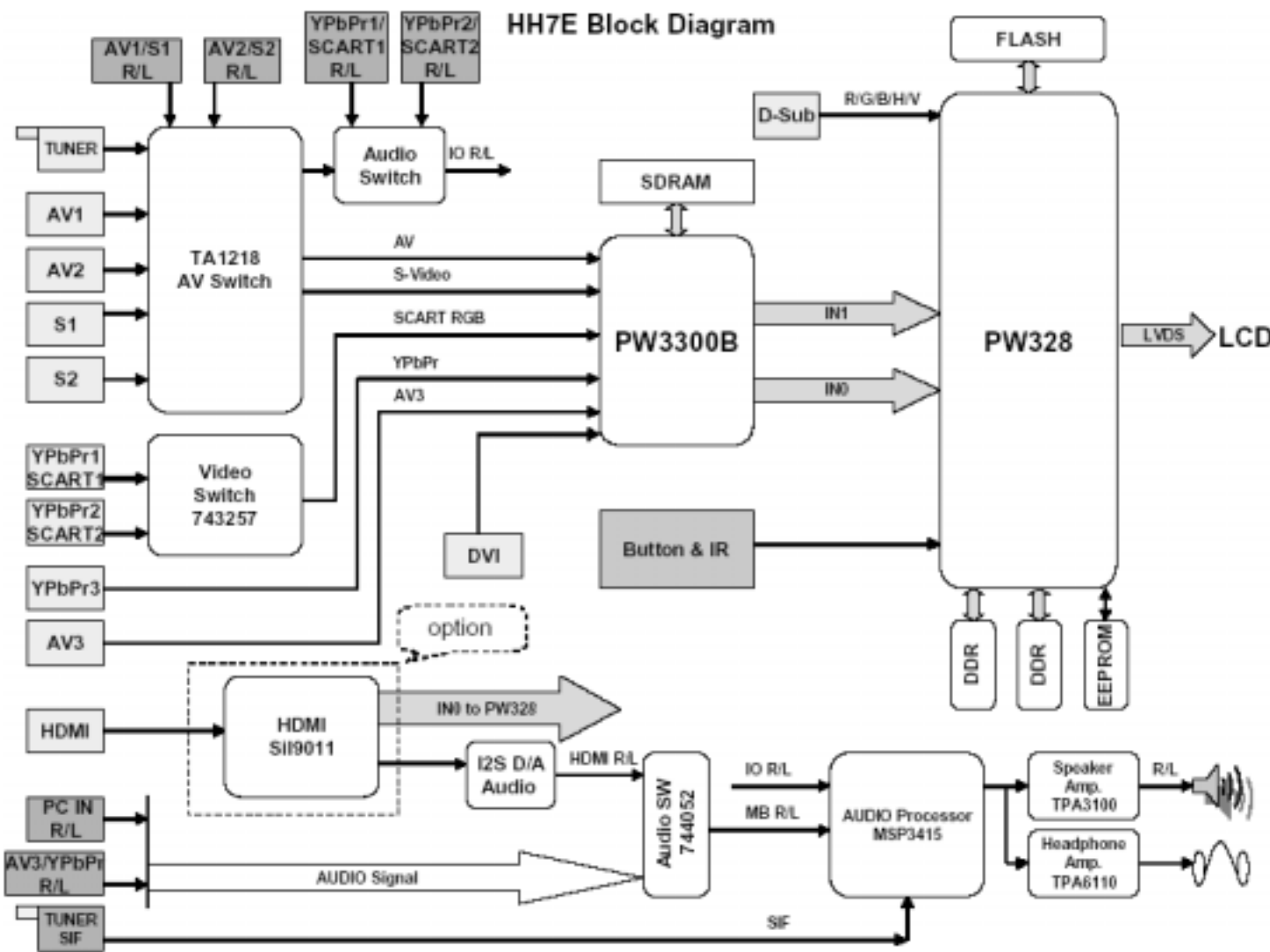
On screen display adjustment function

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

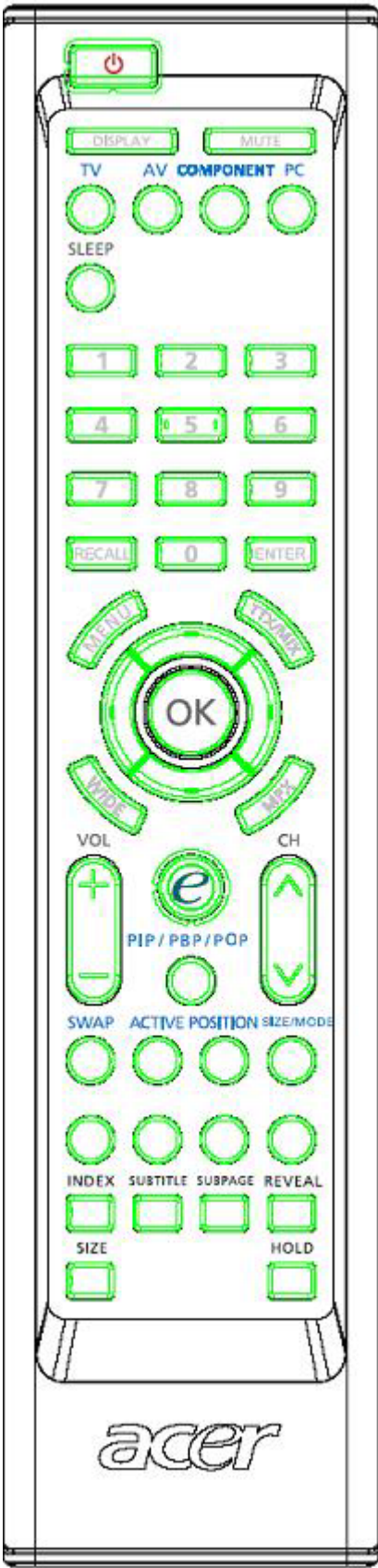
System Block & Wiring Diagram



LCD Main Board Block Diagram



Remote Control



Key Functions

Remote Function description		
R/C for Europe	Key Functions	Remark (for cardreader)
Power	Power On/Off	
Display	Display Channel and Input Source	
Mute	Mute On/Off	
TV	TV Turner	
Component	Component1/Component2	
AV	AV1/AV2/AV3	
PC	VGA	
Sleep	Sleep Timeer Off 15/30/45/60/90/120	
Frozen	Picture frozen on/off	
Wide	Scaling Mode (4:3 /16:9 /Panorama /Letterbox)	
Menu	Open Menu or leave Menu	
PIP/POP	Switch among Normal /PIP /PBP /POP modes	
Size/mode	When PIP mode:	
	Change subscreen size 25% /37.5% /50%	
	When POP mode:	
	Change POP mode 1+5 / 1+12	
Position	Change position of subscree in PIP mode left-up / right-up / right down / left-down	
Activate	Active/Deactive channel scan in POP mode	
	Active main or sub-window audio in PIP/PBP mode	
Swap	Swap primary and sub screen in toggle	
Four way direction key		
up	Navigate up in the OSD or next (sub)page in teletext mode	
down	Navigate down in the OSD or previous (sub) page in teletext mode	
left	Navigate left in the OSD	
right	Navigate right in the OSD	
OK	Selection Confirm	
Channel key		
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	
Volume key		
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	
Volume up	Volume up	
Volume down	Volume down	
Teletext	Teletext on/off	
Index	Go to index page (usually page 100)	
Subpage	Enter/Leave subpage mode	
Reveal	Display Hidden Information	
Hold	Temporarily holds the current teletext page	
Mix	Overlay the telex page on the TV picture	
Size	Zoom page toggle 1X/2X	
	Page select by Up-arrow and Down-arrow	
Teletext	Turn teletext mode on/off	
Subtitle	Show subtitle on the screen	
R	Colour button to operate the teletext	
G	Colour button to operate the teletext	
Y	Colour button to operate the teletext	
C	Colour button to operate the teletext	
Empowring Key		
e	Activate Acer empowering feature	

Hardware Specification and Configuration

Electro / Optical

Model

AT4250B

Panel specification

Resolution(pixels)	1920x1080
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.)	6.5ms

Power supply

Input	90-264 V, 47-63 Hz
Max. power Consumption	291W
Power saving	5W

Mechanical

Dimensions(WxHxD mm)	1070.96*796.44*310.73
Weight(Kg)	13.3

Analog TV system

Destination	PAL / SECAM
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)

Terminal

Analog RF	75Ω DIN45325 (IEC169-2) Type
AV 1	Euro-SCART (RGB) for Video, S-Video, RGB and Audio
AV 2	Euro-SCART (RGB) for Video, S-Video, RGB and Audio
AV 3	RCA for YPbPr or Video and Audio R/L
AV4	AV4 CVBS input
HDMI1/HDMI2	HDMI connect for hdmi time and DVI mode
PC Analog Port	D-Sub 15 pin VGA
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	47.7	+	60	+	VESA

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					
2	640*480 72					
3	640*480 75					
4	640*480 85					
5	800*600 56					
6	800*600 60					
7	800*600 72					
8	800*600 75					
9	800*600 85					
10	1024*768 60					
11	1024*768 70					
12	1024*768 75					
13	1024*768 85					

14	1280x768 60					
15	1360x769 60					
16	1280x720/50					
17	1280x720/60					
18	576P/50					
19	1920x1080i/50					
20	1920x1080i/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	< 161W	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, SCART1/2 or HDMI1/2 or AV3 inputs.

Performance Specifications

The performance shall be check at 25°C environment.

White Balance and Uniformity

Set contrast and brightness at max.

Cold: 14000 degree K(x=263,y=273) on x and y value.

Standard: 9300 degree K(x=283,y=297) on x and y value.

Warm: 6500 degree K(x=312,y=329) on x and y value.

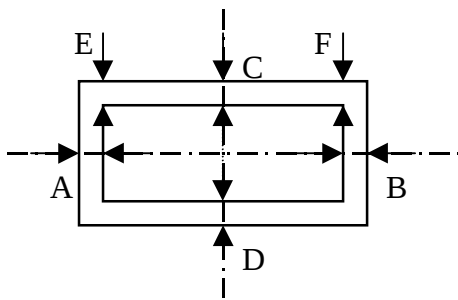
Display Area, Phase, Center and Tilt

Display Area: 27 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 350 Cd/m^2 while set both of contrast and brightness to max. and color temperature of Standard is selected. (Typical value would be 400 Cd/m^2).

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

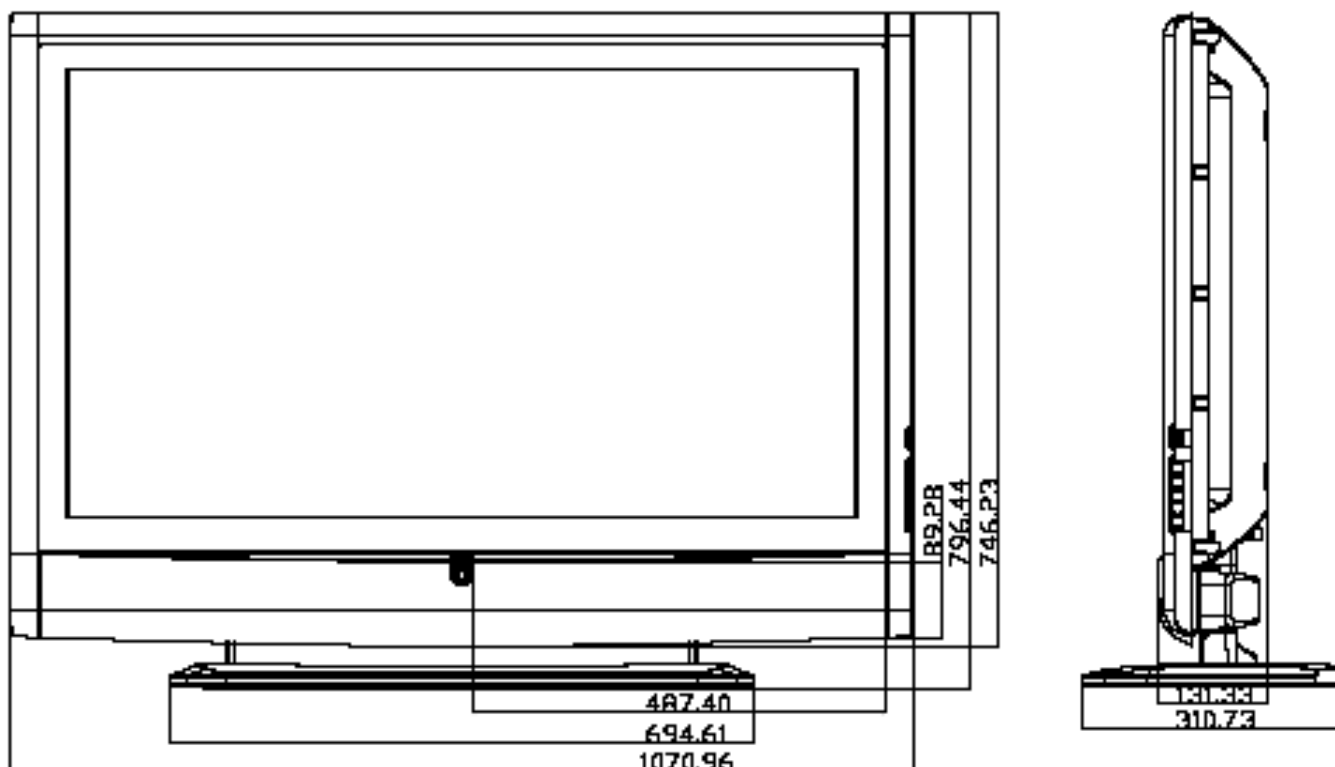
The inverter which is used to light up back-light of LCD panel shall be well designed to meet requirement of panel's specification.

Overall Dimensions

Height: 769.44 mm

Width: 1070.96 mm

Depth: 310.73 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

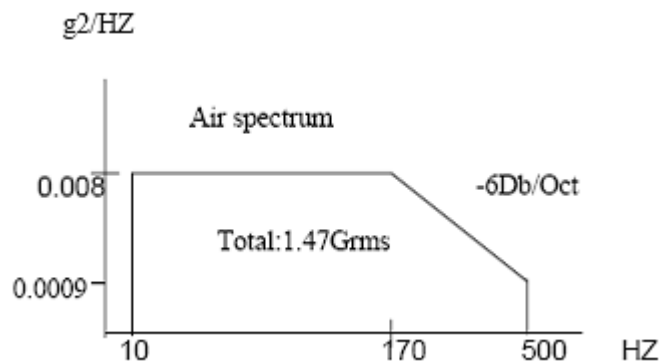
Storage altitude: 0 to 40,000 feet

Vibration Test

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

A. Test condition as below :

1) Random vibration, 10-500 Hz, 1.47G RMS



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

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

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

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.

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

Mass(kg)	Drop Height(cm)
	6 Surface
1-9	51
10-19	39
20-27	36
28-50	30
>50	25

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 1

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 AT4250B 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. Release 6pcs screws from base and take off it.



2. Release 10pcs screws from rear cover.



3. Release 10pcs screws from rear cover.



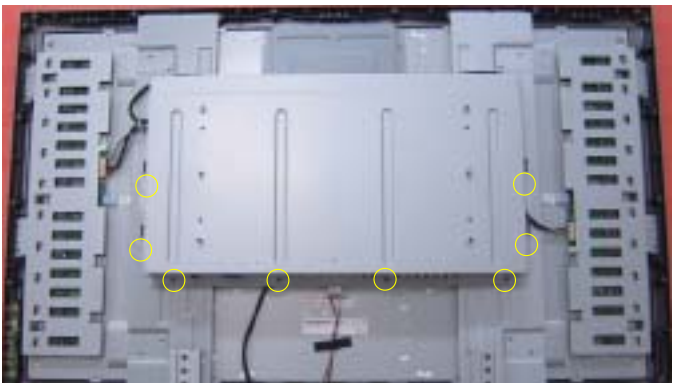
4. Release 6pcs screws from stand brackets.



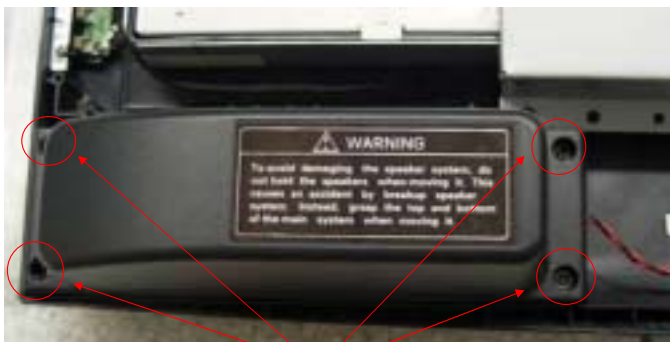
5. Release 6pcs screws from HDMI and IO joint.



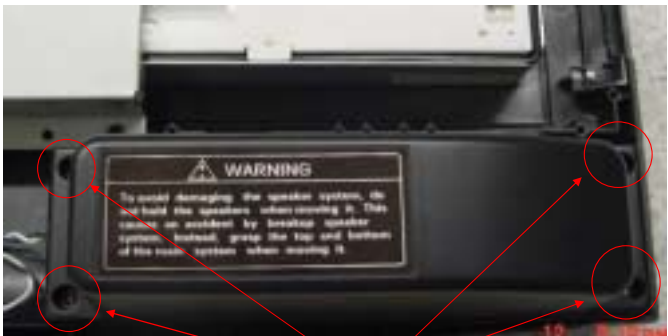
6. Release 6pcs screws from PCB shielding.



7. Release 8pcs screws from PCB shielding.



2

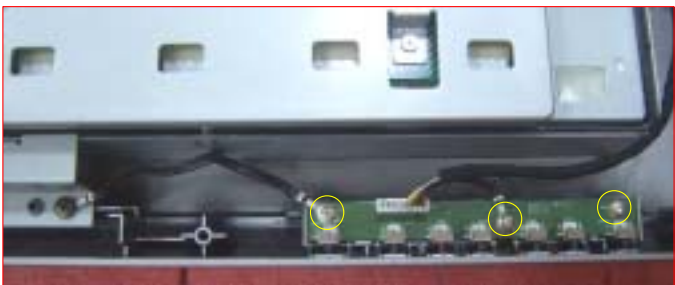


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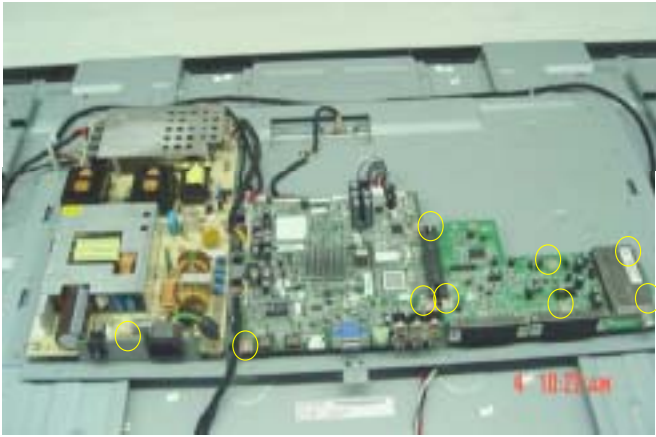
8. Release 8pcs screws from left and right speakers.



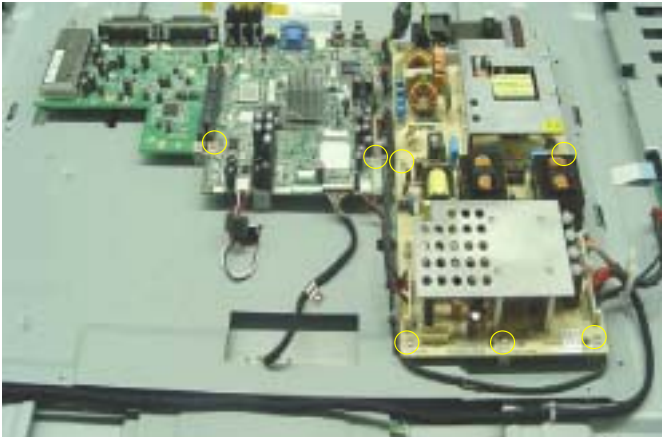
9. Release 2pcs screws from IR/B.



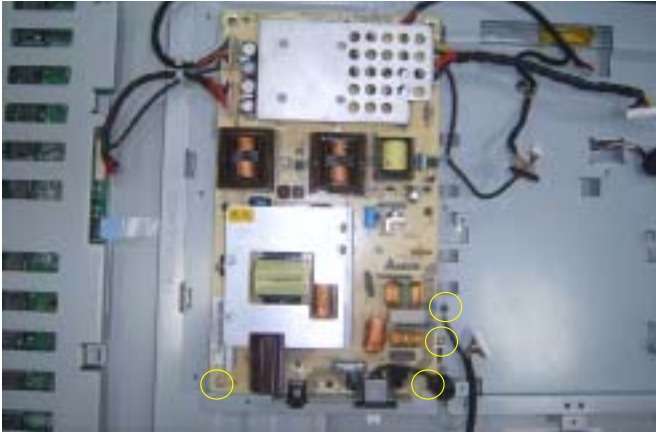
10. Release 3pcs screws from Keypad/B.



11. Release 9pcs screws from Boards.



12. Release 7pcs screws from boards.



13. Release 4pcs screws from Power/B.



14. Release 7pcs screws from panel brackets.



15. Release 5pcs screws from chassis and LVDS cable.



16. Release 11pcs screws from bezel and brackets.



17. Release 4pcs screws from top panel brackets.



18. Release 4pcs screws from buttom panel brackets, then take off them.

Troubleshooting

Use the following procedure as a guide for Acer LCD TV AT4250B 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.

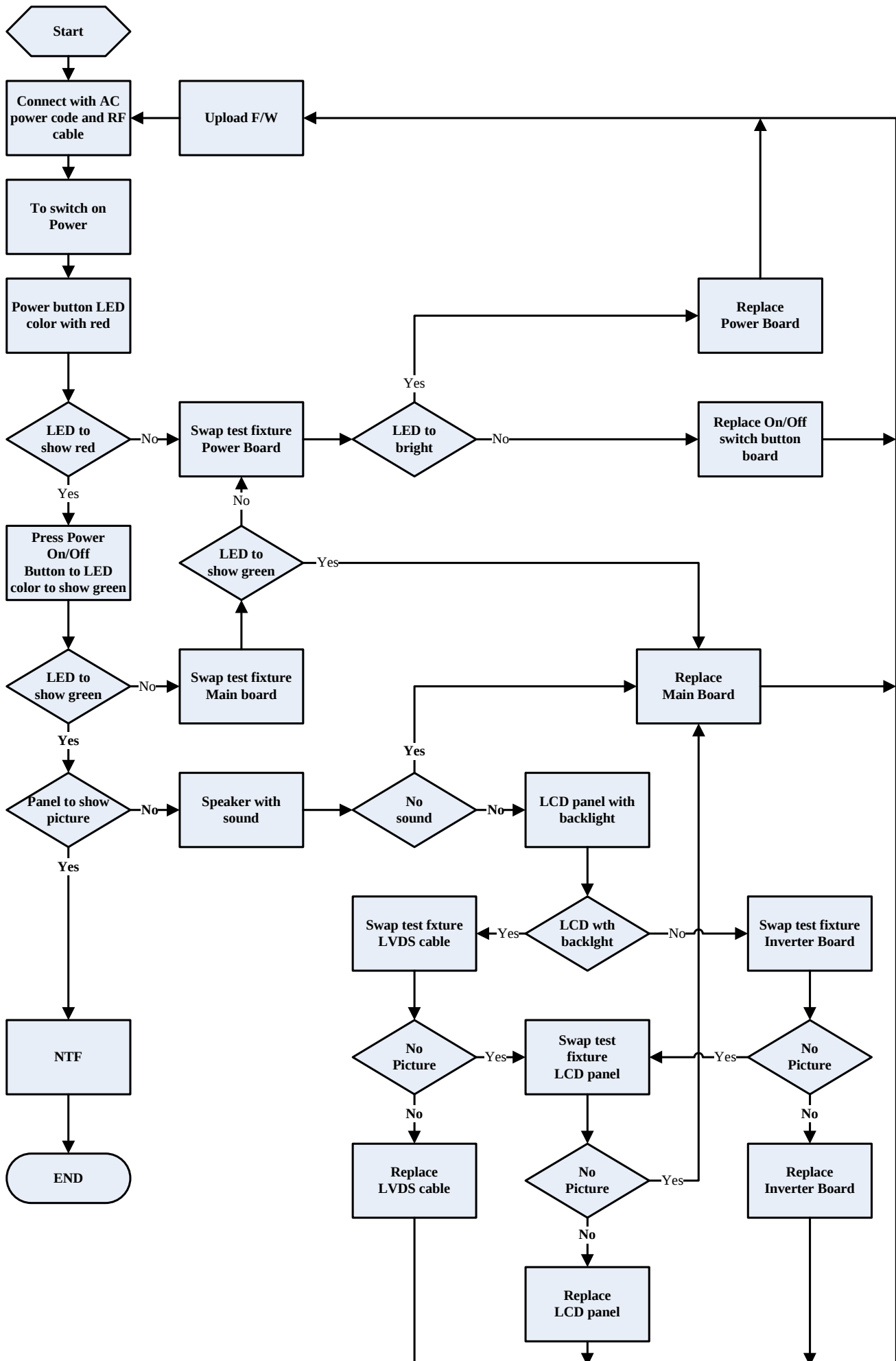
1. Duplicate symptom and obtain the failing symptoms in as much detail as possible.
2. Distinguish symptom. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Disassemble and assemble the unit without any power sources.
4.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

You can check the following:

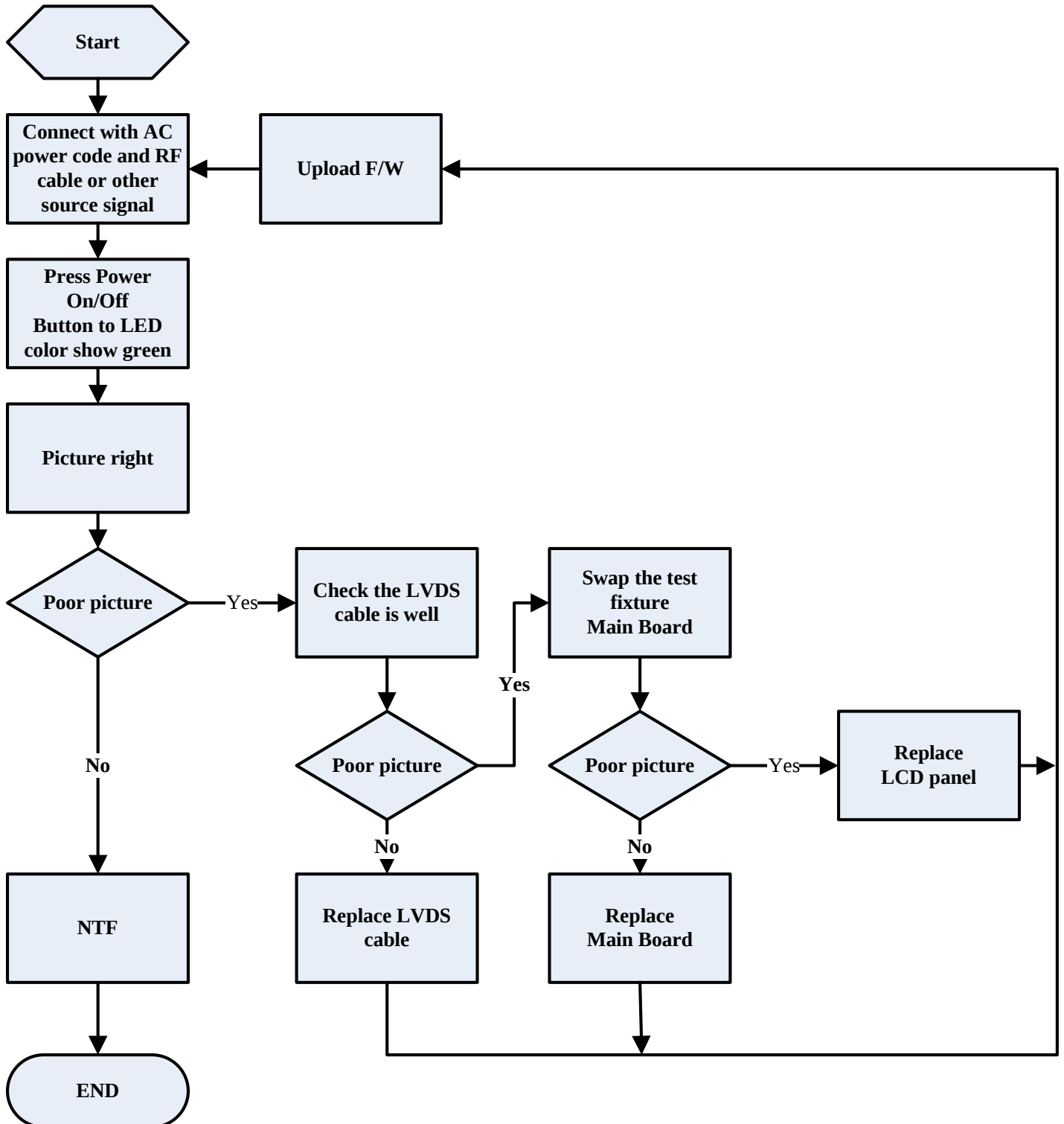
- Power cords are properly connected and secured;
- There are no obvious shorts or opens;
- There are no obviously burned or heated components;
- All components appear normal.

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

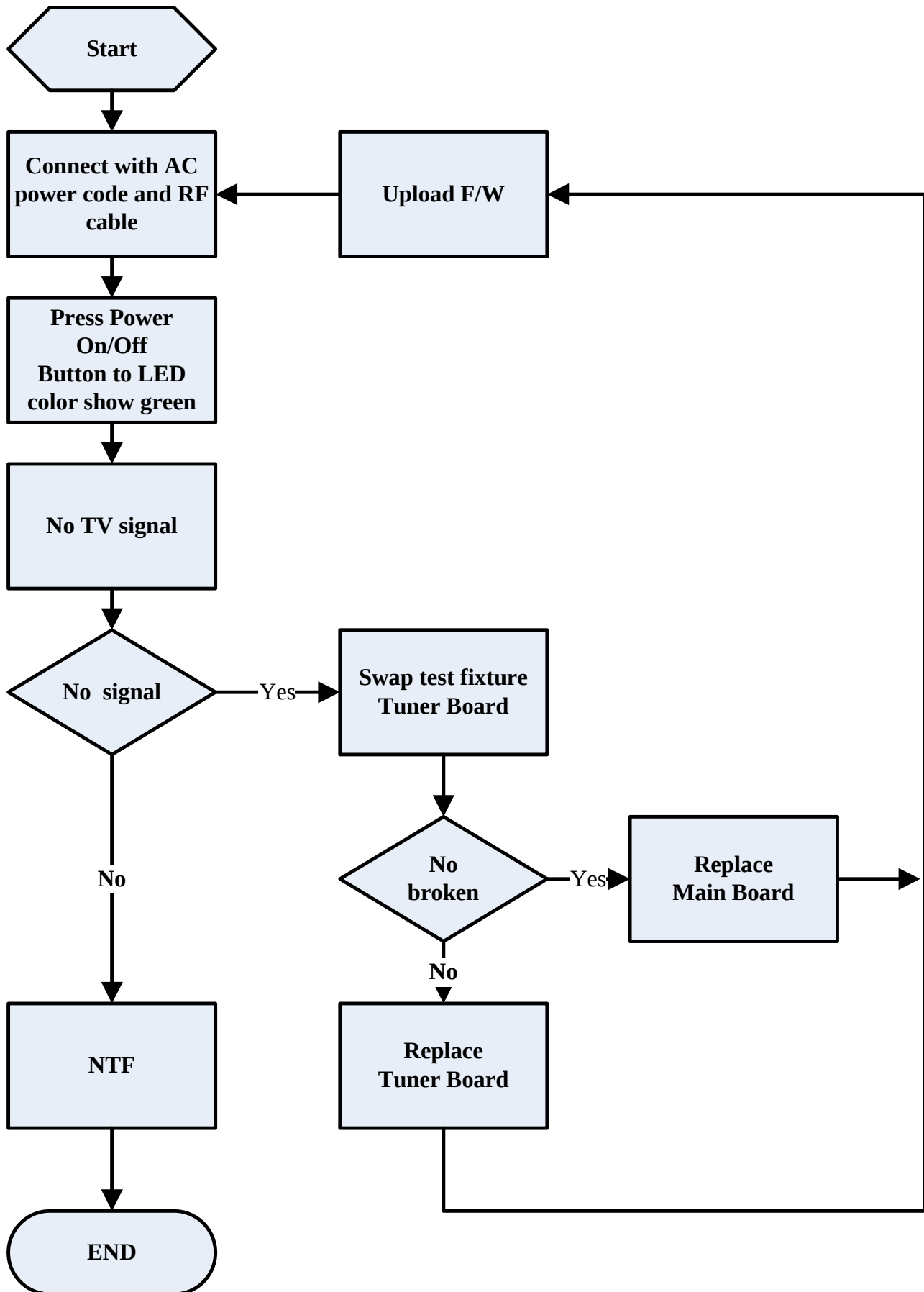
TV NO PICTURE ISSUE



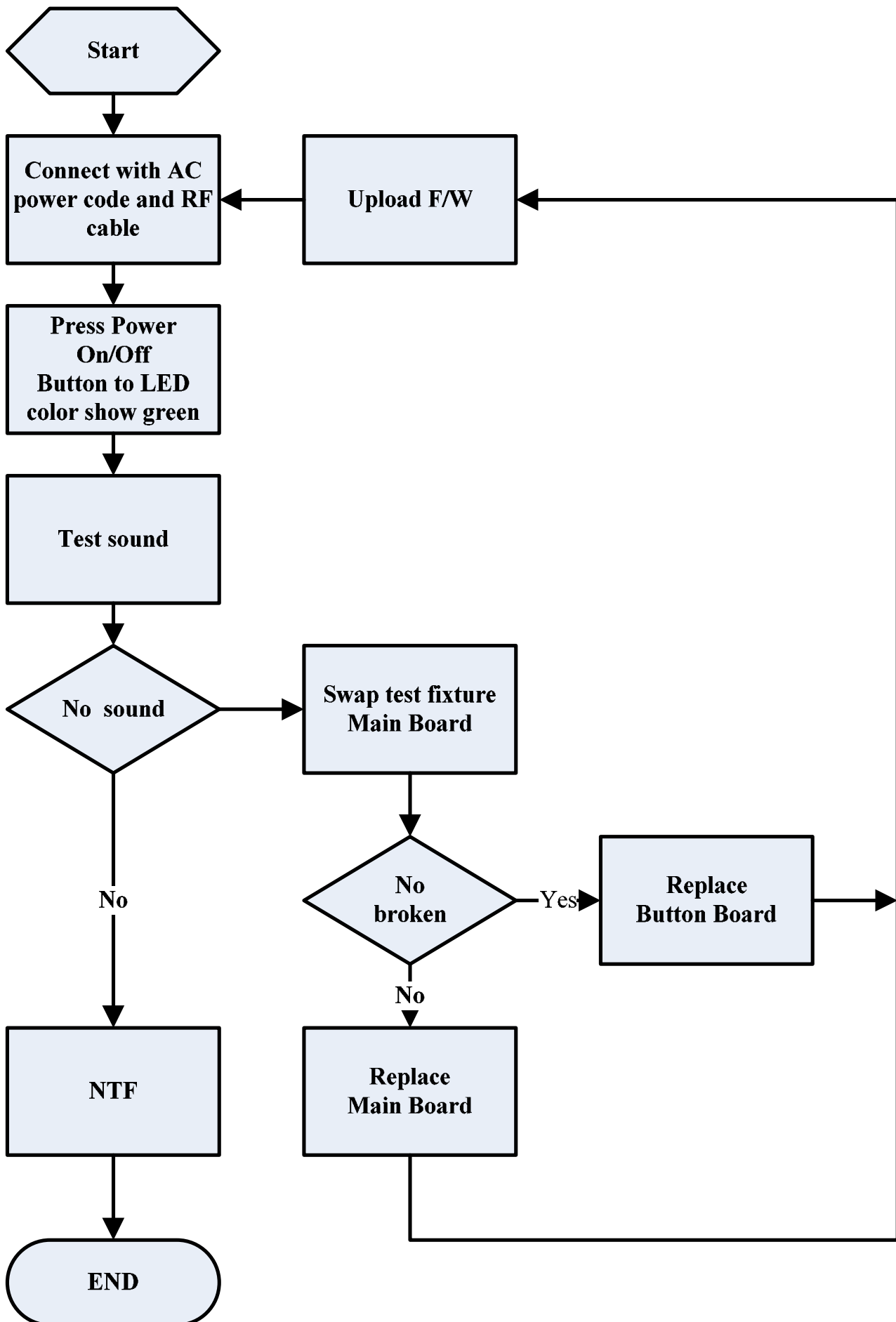
POOR PICTURE QUALITY



NO TV SIGNAL ISSUE



NO SOUND ISSUE



FRU (Field Replaceable Unit) List

This section gives you the FRU (Field Replaceable Unit) list in global configurations of AT4250B 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 CONTROL EURT54B005 GP	DQ7T54B0001	25.M3507.001
BATTERY	BATTERY LR03GW/2SK (ALKALINE 1.5V) GP	AHDALR03006	23.M480E.002
	BATTERY LR03(SN) (ALKALINE,1.5V) GP	AHDALR03120	23.M09V7.012
BOARD			
MAIN/B	HV4E M/B ASSY(FOR HV4A)CMO L07 GP	21HV4EMB021	55.M8207.001
IO/B	HH6 IO/B ASSY(EU) GP	22HH6IB0011	55.M12V7.004
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 291W,DPS-291AP A(90~264VAC) GP	AF291B00007	55.M34V7.001
Cable			
CABLE INV	CABLE INV(520MM,14P/10P/4P,R1A)HV4A GP	DD00E20G006	
CABLE INV	CABLE INV(12P/10P,REV2A)HV4E GP	DDHV4EIV101	50.M3507.003
CABLE AV4	CABLE AV4(870MM,11P/7P,REV2A)HV4E GP	DDHV4ETH106	50.M3507.006
CABLE MB/IR	CABLE MB/IR/BTN(10/9/8P,R1A)HV4A GP	DD0HV4IR001	50.M34V7.004
CABLE SPEAK	CABLE SPEAK(660MM,2P/3P,4P),HH2 GP	DD0HH2EP101	50.M12V7.005
CABLE AUDIO	CABLE AUDIO/PWR(8P/7P,R1A)HV4A GP	DD0HX4AB003	50.M34V7.005
CABLE ASSY	CABLE ASSY HV9 GND(1P/1P,2A) GP	DD0HV9TH108	50.M26V7.004
CABLE ASSY	CABLE ASSY MB-POW LG(170MM,10/14P)HH7 GP	DD0HH7PB104	
Case / Cover / Bracket / Assembly			
LCD BEZEL ASSY	HV4E LCD-BEZEL ASSY (FHD) GP	36HV4LBTN12	60.M3507.001
BACK COVER	AH4T BACK COVER ASSY GP	47AH4BC0I06	60.M34V7.002
STAND ASSY	HV4 STAND ASSY GP	27HV4SATN07	60.M34V7.003
STAND BASE	STAND BASE HV4(EAHV4002,REV3A) GP	EAHV4002014	
PANEL BKT	PANEL BKT CMO L HX4(FAHX4007,REV3A) GP	FAHX4007011	33.M3507.001
PANEL BKT	PANEL BKT CMO R HX4(FAHX4006,REV3A) GP	FAHX4006015	33.M3507.002
STAND SUPPORT	STAND BKT HX4(FAHX4008,REV3A) GP	FAHX4008018	33.M34V7.001
LCD			
LCD	LCD(TFT) 42" V420H1-L07 STN B/S QCI CO G	AAV420H1100	LK.4200D.002
LCD	LCD(TFT) 42" V420H1-L07 GP QCI CON	AAV420H1109	LK.4200D.002
LABEL			
LABEL (POWER)	LABEL (POWER) HV4(HCHV4001,REV3A) GP	HCHV4001010	40.M34V7.001
LABEL (BUTTONS)	LABEL (BUTTONS) HV9(HCHV9006,REV3B) GP	HCHV9006010	
LABEL HV4E	AV4 LABEL HV4E(HCHV4006,REV3B) GP	HCHV4006011	40.M3507.002
LABEL (IO&TUNER)	LABEL I/O TUNER EU HV9(HCHV9003,R3A) GP	HCHV9003011	
BOX LABEL	BOX LABEL(130WX150L)VT1(HCVT1004,R3A) GP	HCVT1004017	47.M8207.001

RATING LABEL	RTG LABEL HV4(HCHV4002,3B)ACER AT4220 GP	HCHV4002016	
MISCELLANEOUS			
CMO GASKET LVDS	CMO GASKET LVDS HX4(GBHX4P01,3A)GP	GBHX4P01017	
CMO GASKET UP	CMO GASKET UP HX4(GBHX4P02,3A)GP	GBHX4P02013	
CMO GASKET DOWN	CMO GASKET DOWN HX4(GBHX4P03,3A)GP	GBHX4P03010	
CMO GASKET POWER	CMO GASKET POWER HX4(GBHX4P04,3A)GP	GBHX4P04016	
GASKET HV4E	GASKET 385X15X14 HV4E(GBHV4004,3A) GP	GBHV4004018	47.M3507.001
SCREW			
SCREW	SCREW M4.0*6.0-B(NI)GP	MM40060BBJ5	86.M08V7.005
SCREW	SCREW M3*6-B(BNI) GP	MM30060BJ25	86.M08V7.003
SCREW	SCREW T3*12-P(BNI+WASHER) GP	MS30120PCT3	86.M3507.004
SCREW	SCREW M4*6 P (NI) GP	MM40060PCE2	86.M01V7.002
SCREW	SCREW M4*22-B(BNI+WASHER+SPRING) GP	MM40220BK82	86.M34V7.002
SCREW	SCREW T4*12-B(BNI) GP	ME40120BJ24	86.M25V7.003
SCREW	SCREW T3*8-B(BNI) GP	MT30080BJ20	86.M08V7.007
SCREW	SCREW F3.0*6-B(NI)GP	MF30060BBJ6	86.M25V7.002
SCREW	SCREW M4*22-HEX P(BNI) GP	MS40220P003	
IO NUT EA1	NUT IO EA1(MBEA1001,REV3D)GP	MBEA1001012	86.M25V7.001

Exploded parts list

ITEM	DESCRIPTION	TVI PART NO.	ACER PART NO.	QTY
1	HV4E LCD-BEZEL ASSY (FHD) GP	36HV4LBTN12	60.M3507.001	1
2	AH4T BACK COVER ASSY GP	47AH4BC0I06	60.M34V7.002	1
3	HV4 STAND ASSY GP	27HV4SATN07	60.M34V7.003	1
4	STAND COVER HX4(EAHX4004,REV3B) GP	EAHX4004012	42.M34V7.001	1
5	AV3 FRAME HV4(EBHV4002,REV3A) GP	EBHV4002015	42.M3507.002	1
6	FUNCTION KEY HV7E(EBHV7001,REV3A)GP	EBHV7001010		1
7	WIRE SADDLE CHA-4 VV3(EBVV3006,REV3A) GP	EBVV3006014	42.M03V7.012	1
8	WIRE SADDLE MWS-7 VV3(EBVV3010,REV3A) GP	EBVV3010011	42.M03V7.013	6
9	HV4 CHASSIS ASSY_2(NEW PACKING)CMO GP	24HV4CSTN34		1
10	SHIELDING (EU) HV4E(FAHV4002,REV3C) GP	FAHV4002014	33.M34V7.005	1
11	PANEL BKT CMO R HX4(FAHX4006,REV3A) GP	FAHX4006015	33.M3507.002	1
12	PANEL BKT CMO L HX4(FAHX4007,REV3A) GP	FAHX4007011	33.M3507.001	1
13	CLAMP CMO-R/L HX4(FBHX4004,REV3A) GP	FBHX4004013	47.M3507.003	4
14	CLAMP CMO-D HX4(FBHX4005,REV3A) GP	FBHX4005010	47.M3507.002	1
15	STAND BKT HX4(FAHX4008,REV3A) GP	FAHX4008018	33.M34V7.001	2
16				1
17				2
18				2
19				1
20	GASKET 385X15X14 HV4E(GBHV4004,3A) GP	GBHV4004018	47.M3507.001	2
21	CMO GASKET LVDS HX4(GBHX4P01,3A)GP	GBHX4P01017		1
22	CMO GASKET UP HX4(GBHX4P02,3A)GP	GBHX4P02013		3
23	CMO GASKET DOWN HX4(GBHX4P03,3A)GP	GBHX4P03010		1
24	CMO GASKET POWER HX4(GBHX4P04,3A)GP	GBHX4P04016		1
25				2
26	LABEL (POWER) HV4(HCHV4001,REV3A) GP	HCHV4001010	40.M34V7.001	1
27	LABEL I/O TUNER EU HV9(HCHV9003,R3A) GP	HCHV9003011		1
28	AV4 LABEL HV4E(HCHV4006,REV3B) GP	HCHV4006011	40.M3507.002	1
29	AV4 CONTACT PAD HV4(JXHV4001,REV3A) GP	JXHV4001010		1
30	EMI CONTACT PAD HX4(JXHX4001,3A) GP	JXHX4001015	47.M34V7.003	1
31	NUT IO EA1(MBEA1001,REV3D)GP	MBEA1001012	86.M25V7.001	2
32	SCREW T4*12-B(BNI) GP	ME40120BJ24	86.M25V7.003	39
33	SCREW F3.0*6-B(NI)GP	MF30060BBJ6	86.M25V7.002	5
34	SCREW M3*6-B(BNI) GP	MM30060BJ25	86.M08V7.003	39
35	SCREW M4.0*6.0-B(NI)GP	MM40060BBJ5	86.M08V7.005	8
36	SCREW M4*6 P (NI) GP	MM40060PCE2	86.M01V7.002	3

37	SCREW M4*22-B(BNI+WASHER+SPRING) GP	MM40220BK82	86.M34V7.002	10
38	SCREW T3*12-P(BNI+WASHER) GP	MS30120PCT3	86.M3507.004	8
39	SCREW T3*8-B(BNI) GP	MT30080BJ20	86.M08V7.007	8

