

AT3704

Service Guide

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

Revision History

Please refer to the table below for the updates made on AT3704 service guide.

Date	Chapter	Updates

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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, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Specifications

Features

LCD Panel

- Max. resolution: 1366 x 768
- 18 CCFTs backlight system
- Display area: 37 inches (819.36H x 460.89V) mm
- Display color: 16.7 M colors
- Input signal: 1-ch LVDS
- Contrast ratio: 1000:1 (typical)
- Brightness: 500 Cd/m² (typical)
- Respond time: 8 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
- 24-pin D-Sub for DVI
- DIN45325 (IEC169-2) terminal for TV / CATV 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
- Built-in teletext functions
- Built-in dynamic adaptive smoothing filter
- Built-in dynamic temporal frame-filtering noise reduction
- Built-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

Multi-Sound System

- NICAM
- FM Stereo (A2)

Power Source

- Input voltage: 90 ~ 264V, 47 ~ 63Hz
- Input current: 2.1A
- Power consumption: 235W
- Stand-by: 3 Watts max.

Remote Controller

- Multi-function remote controller

Speaker

- Internal speaker: 10W x 2 stereo, volume adjustable

Environmental Requirement

- Operating temperature: 0 °C to 35 °C
- Operating humidity: 10% to 90% (non-condensing)
- 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)

Others

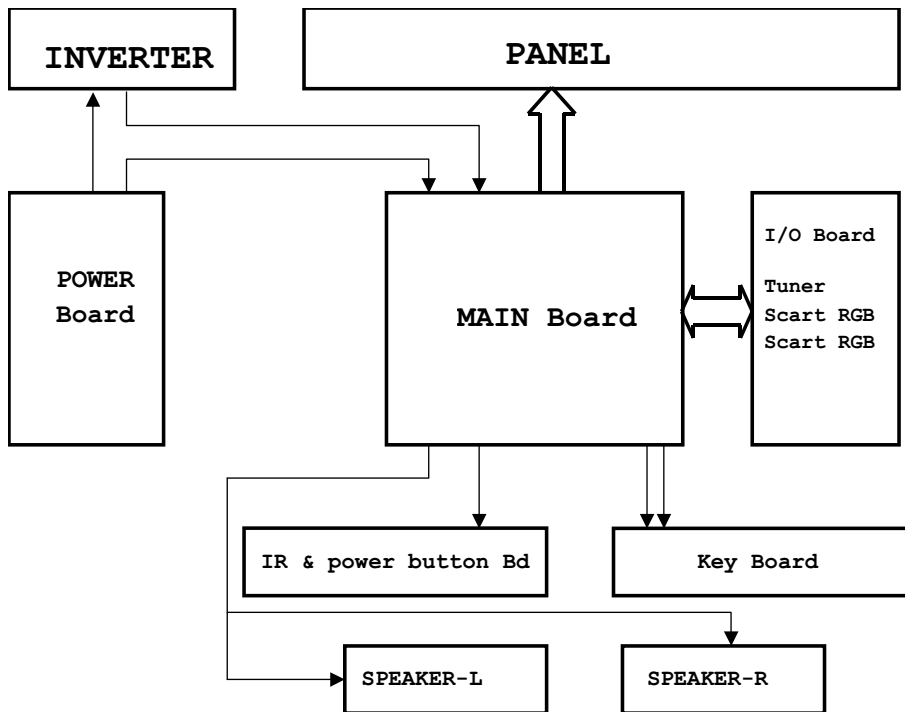
- On screen display adjustment function
- ISP (In System Programming) function available for revising driver easily

Product Specification

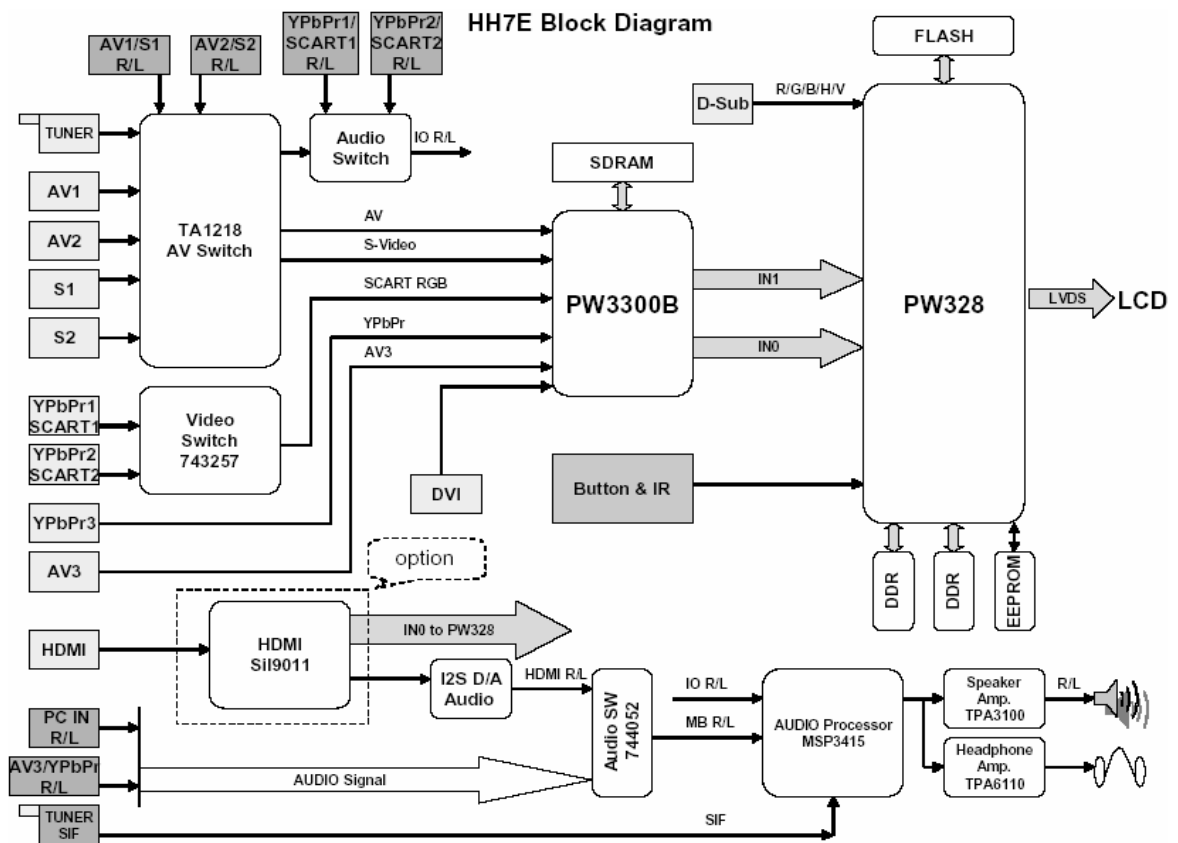
Model	AT3704
Panel spec.	
Resolution (pixels)	1366 x 768
Brightness (tpe.)	500 nits
Contrast Ratio (tpe.)	1000:1
Display color	16.7M
Response (tpe.)	8ms (gray to gray)
Power supply	
Input	90V ~ 264V AC (47 ~ 63Hz)
Max. power consumption	235W
Power saving	3W
Mechanical	
Dimensions (W x H x D mm)	1141 x 687 x 285
Weight (g)	10300
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(48.25MHz) ~ 69(855.25)MHz
Terminal	
RF	75 DIN 45325 (IEC169-2) Type
AV1	Euro-SCART (RGB) for Video, S-Video, RGB and Audio
AV2	Euro-SCART (RGB) for Video, S-Video, RGB and Audio
AV3	RCA for YPbPr or Video and Audio R/L
PC Analog Port	D-Sub 15 pin VGA
PC Stereo input	3.5 mm Earphone Jack
Service Port	ISP through D-Sub
Audio system	
Speaker	10W + 10W

Block Diagram

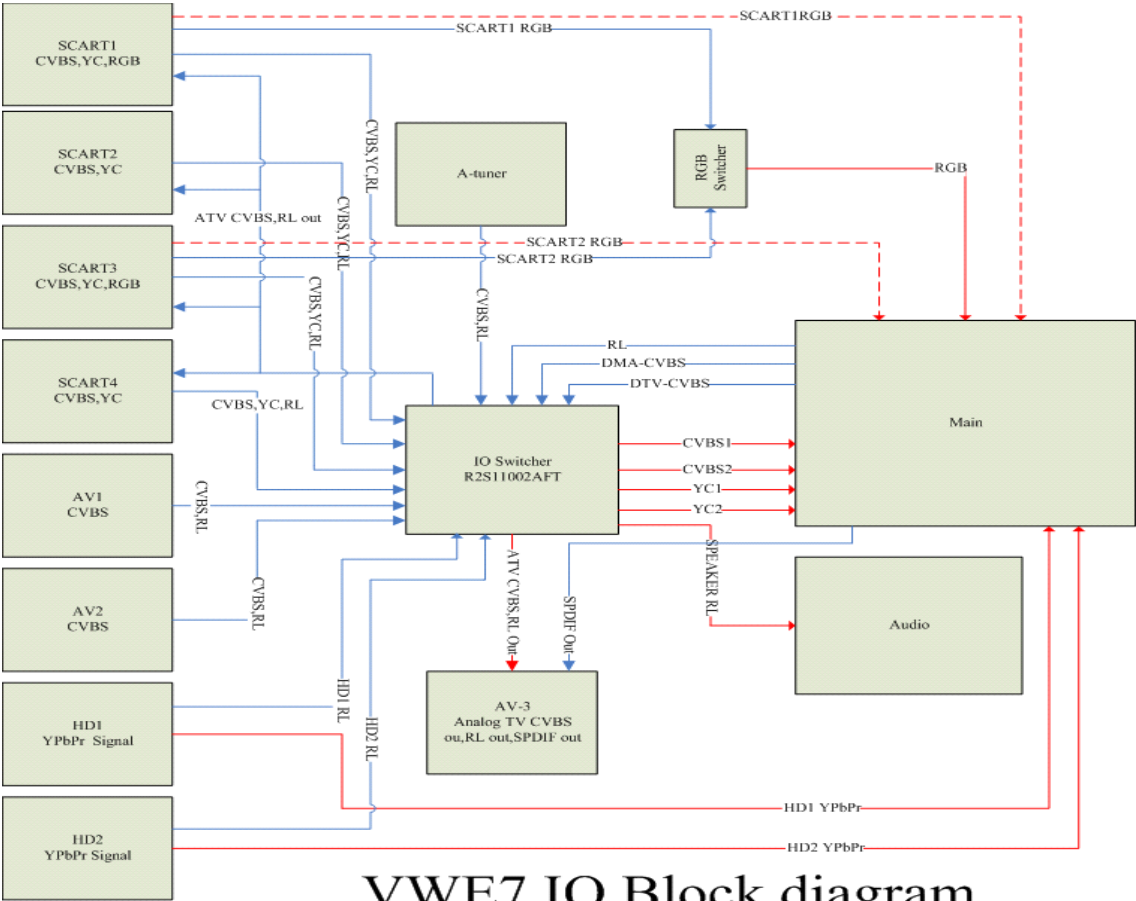
System Block & Wiring Diagram



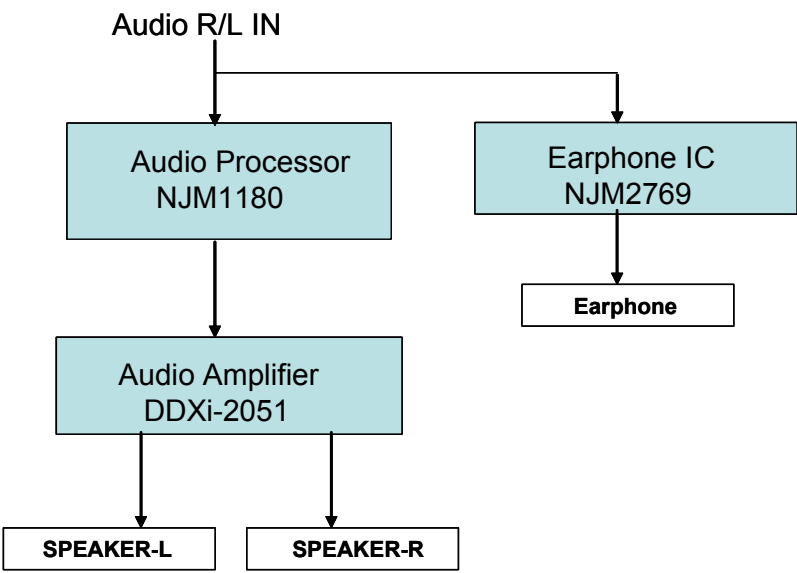
LCD Main Board Block Diagram



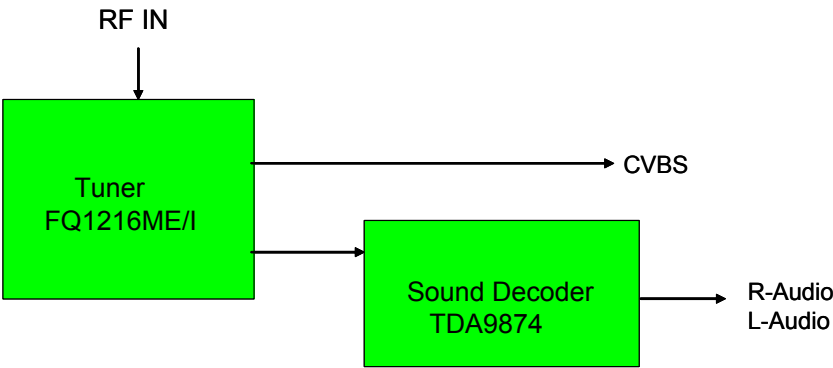
I/O Board Block Diagram



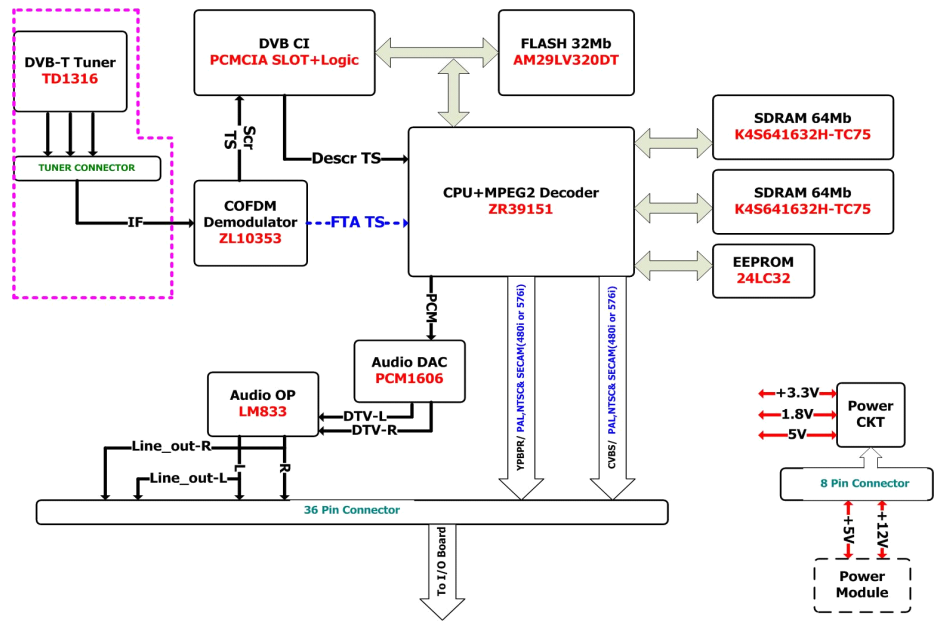
Audio Board Block Diagram



Tuner Board Block Diagram



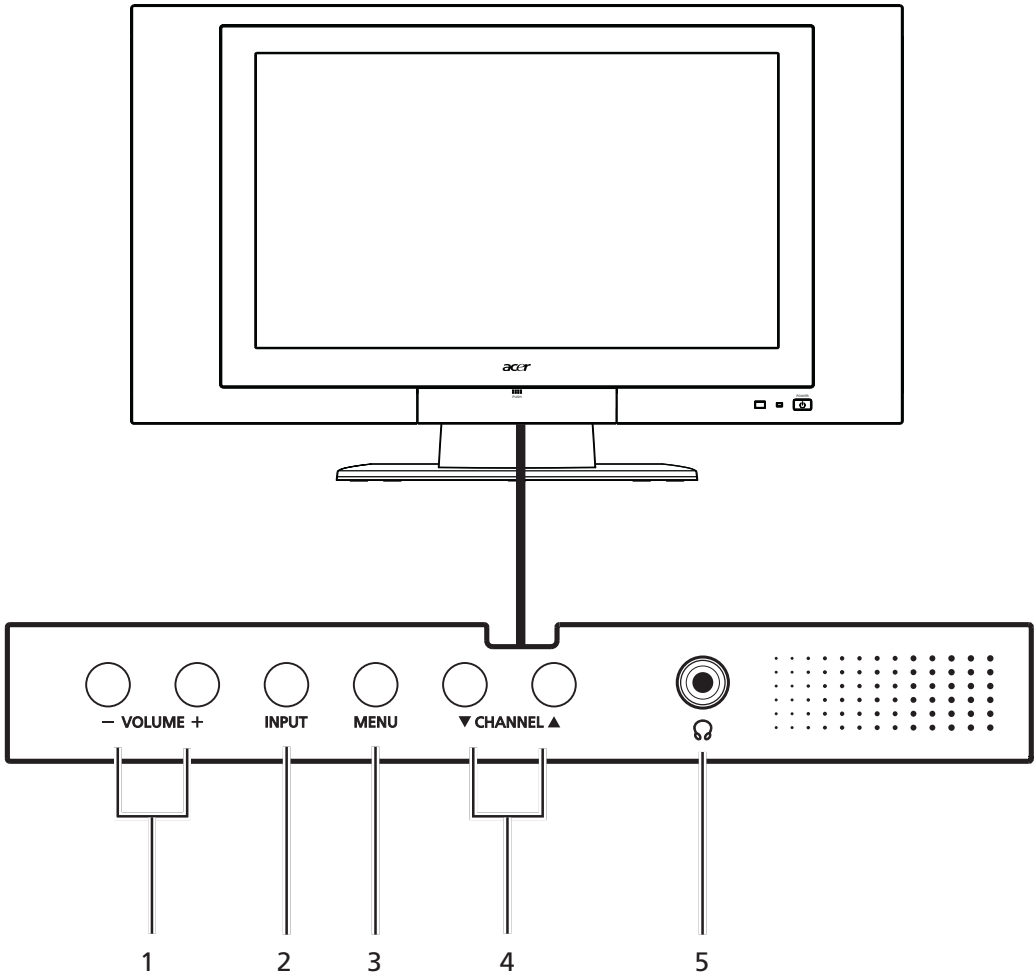
Digital Tuner Board Block Diagram



LCD TV Overview

Front Panel View

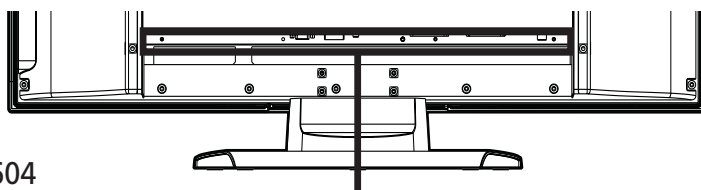
No.	Description
1	Volume up/down
2	Input key
3	Menu key
4	Channel up/down
5	Headphone jack



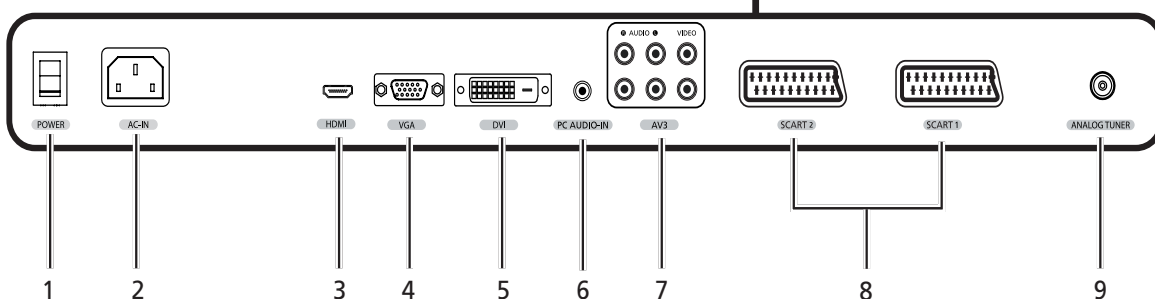
1	Volume up	When the OSD is on, functions the same as the Right arrow.
	Volume down	When the OSD is on, functions the same as the Left arrow.
2	Input key	When the OSD is on, press this button to confirm selection.
3	Menu key	Turns the OSD menu On and Off
4	Channel up	When the OSD is on, functions the same as the Up arrow.
	Channel down	When the OSD is on, functions the same as the down arrow.

Bottom Panel View (for EMEA)

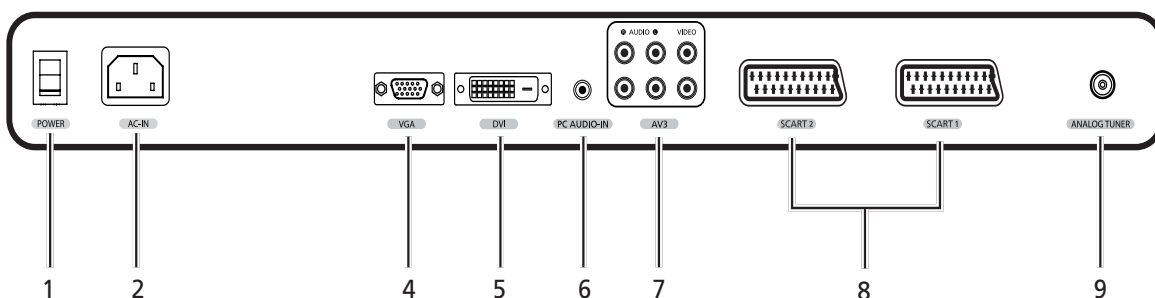
No.	Description	Note
1	Power switch	For AV3, Composite and component inputs share the same audio port. * HDMI only for AT2604/AT2704/AT3204/AT3704 ** DVI only for AT2604/AT2703/AT2704/AT3204/AT3704
2	AC-in	
3	*HDMI-in	
4	VGA-in	
5	**DVI-in	
6	Audio-in	
7	AV-in	
8	SCART x 2	
9	Analog antenna-in	



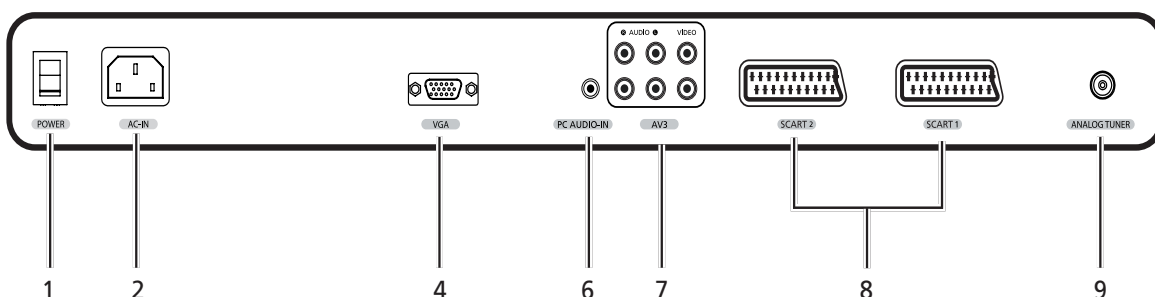
AT3704/AT3204/AT2704/AT2604



AT2703

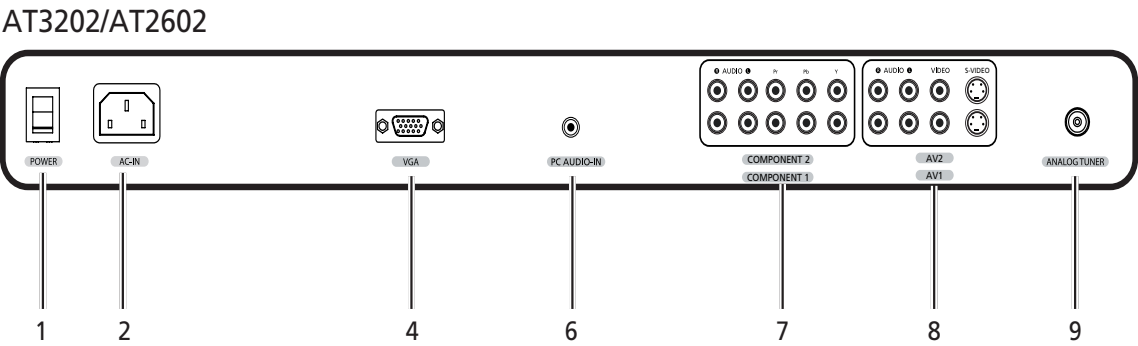
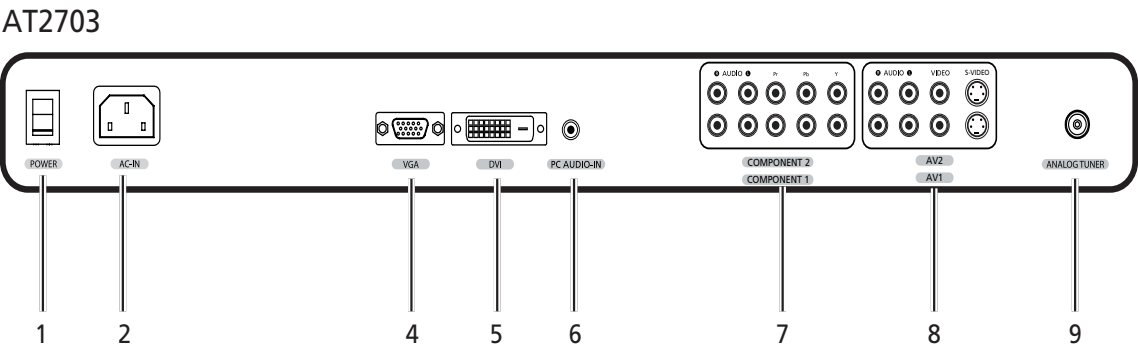
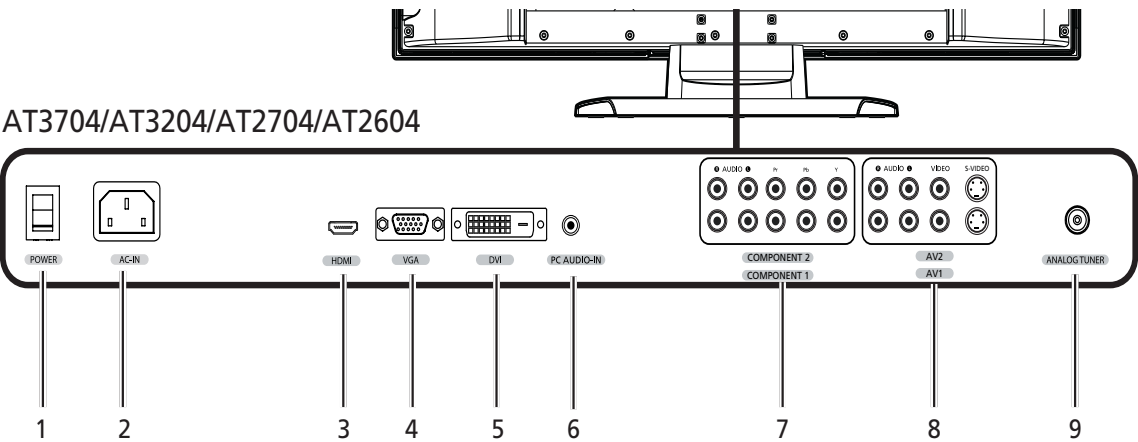


AT3202/AT2602

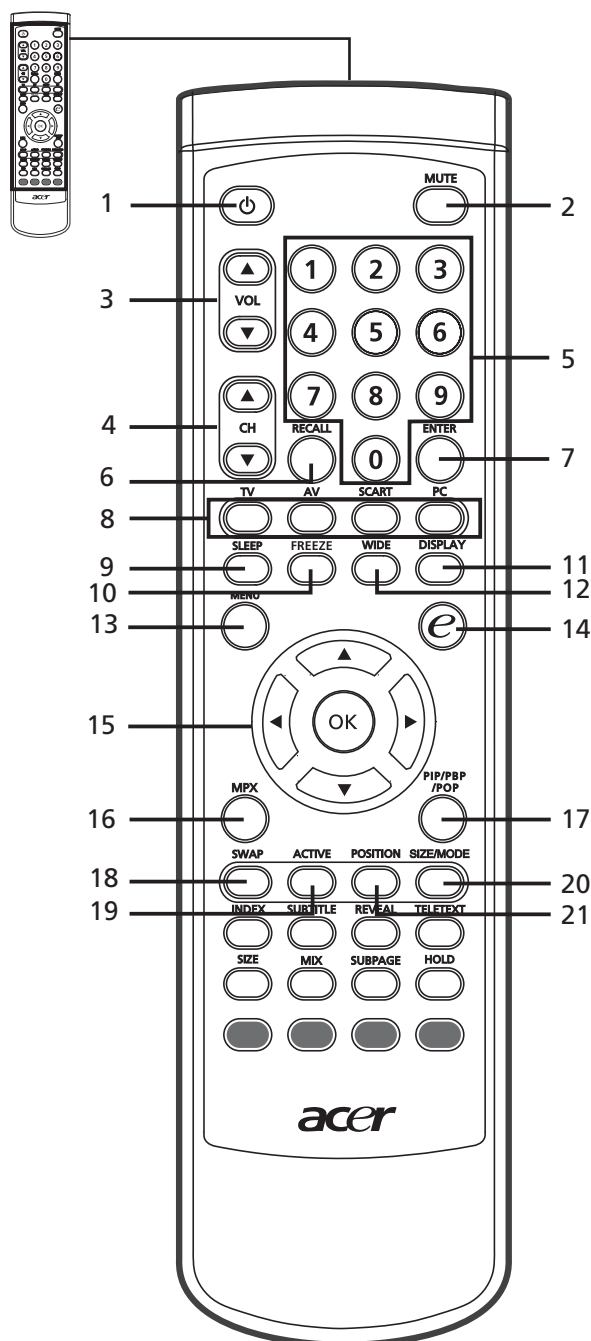


Bottom Panel View (for non EMEA)

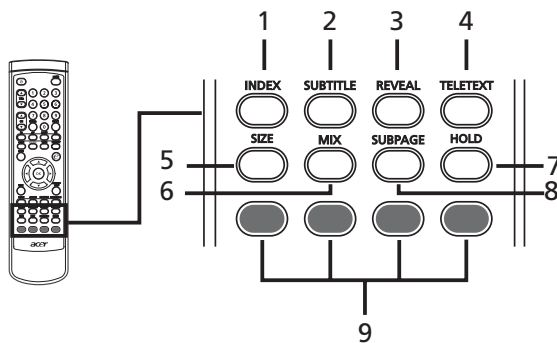
No.	Description	Note
1	Power switch	For AV3, Composite and component inputs share the same audio port. * HDMI only for AT2604/AT2704/AT3204/AT3704 ** DVI only for AT2604/AT2703/AT2704/AT3204/AT3704
2	AC-in	
3	*HDMI-in	
4	VGA-in	
5	**DVI-in	
6	Audio-in	
7	Component 1,2-in	
8	AV 1,2-in	
9	Analog antenna-in	



Remote Control (for EMEA)

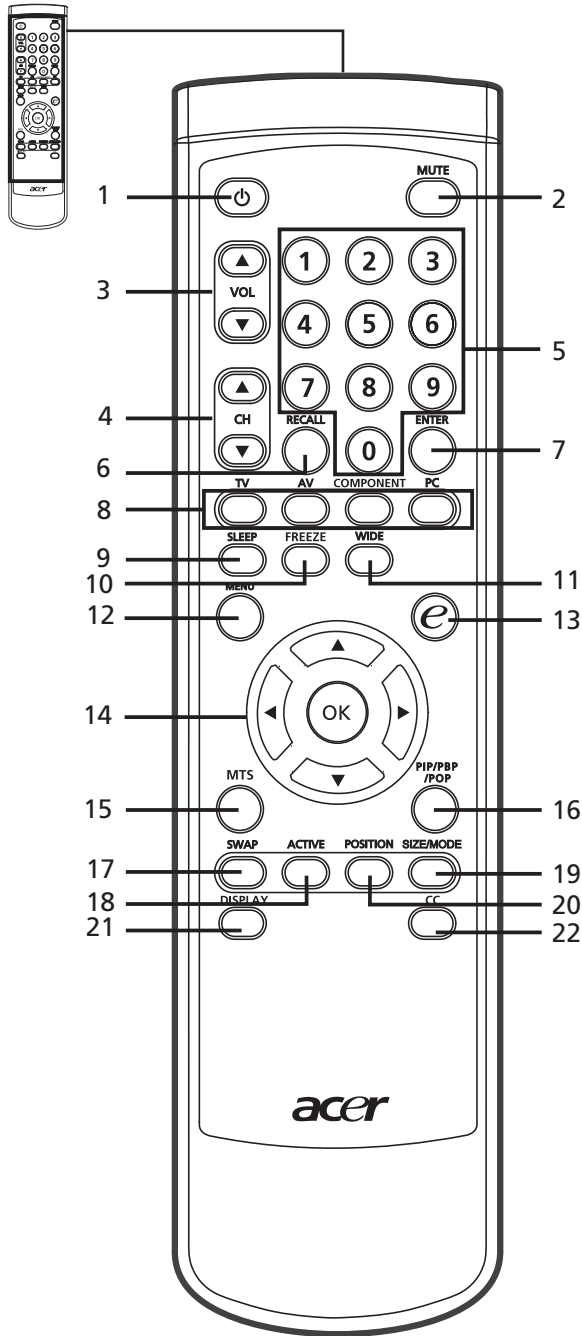


1. Power: Press to turn on/off your TV.
2. Mute: Press to toggle audio on and off
3. VOL (up/down): Press this button to increase or decrease the volume.
4. CH (up/down): Press this button to sequentially select the TV channel.
5. Number keys
6. RECALL: Press to return to previous channel.
7. ENTER: Press to confirm channel number selection.
8. Input buttons (TV/AV/SCART/PC): Press to select correct input mode.
9. SLEEP: Press to set a time period after which the TV will switch itself to stand-by (15, 30, 45, 60, 90)
10. FREEZE: Press to freeze the displayed picture.
11. DISPLAY: Press to display input/channel information (dependent on input/source type).
12. WIDE: Press to toggle scaling mode between 4:3, 16:9, Panorama and Letterbox 1, 2, 3.
13. MENU: Press to open or close the Menu.
14. e (Empowering technology): Activate Acer Empowering Technology.
15. Directional keys/OK
16. MPX: Press to select the sound input, displayed in the top right-hand corner (mono, stereo, bilingual).
17. PIP/PBP/POP: Switch between PIP/PBP/POP mode.
18. SWAP: For PIP/PBP/POP mode, toggle between the primary and subscreens.
19. ACTIVE: Toggle between primary and subscreens.
20. SIZE/MODE: You can change subscreen size in PIP mode. In POP mode, you can switch POP mode from 1+5 to 1+12.
21. POSITION: In PIP mode, you can change subscreen position.



1. INDEX: Press to go to the index page.
2. SUBTITLE: Press to view subtitles on the screen.
3. REVEAL: Press to reveal hidden teletext information.
4. TELETEXT: Press to switch from TV/AV to Teletext mode.
5. SIZE: Press once to zoom teletext page to 2X. Press again to resume.
6. MIX: Press to overlay teletext page on the TV image.
7. HOLD: Press to pause the current teletext page in multi-page viewing mode.
8. SUBPAGE: Press to access the teletext's subpages directly.
9. Colour buttons (R/G/Y/B): Operates corresponding button on the teletext page.

Remote Control (for non EMEA)



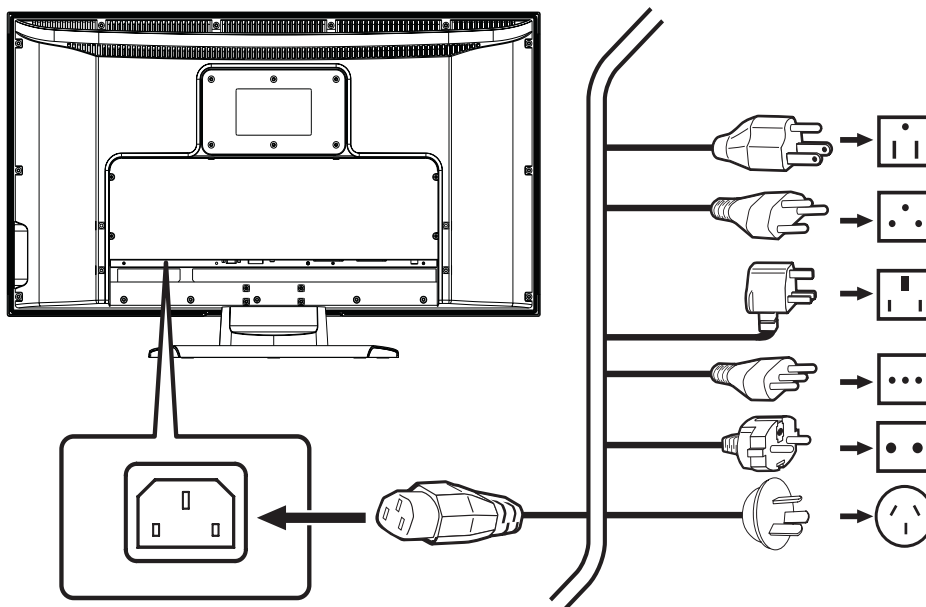
1. Power: Press to turn on/off your TV.
2. Mute: Press to toggle audio on and off
3. VOL (up/down): Press this button to increase or decrease the volume.
4. CH (up/down): Press this button to sequentially select the TV channel.
5. Number keys
6. RECALL: Press to return to previous channel
7. ENTER: Press to confirm channel number selection.
8. Input buttons (TV/AV/COMPONENT/PC): Press to select correct input mode.
9. SLEEP: Press to set a time period after which the TV will switch itself to stand-by (15, 30, 45, 60, 90 or 120 mins)
10. FREEZE: Press to freeze the displayed picture.
11. WIDE: Press to toggle scaling mode between 4:3, 16:9, Panorama and Letterbox 1, 2, 3
12. MENU: Press to open or close the Menu.
13. e (Empowering technology): Activate Acer Empowering Technology.
14. Directional keys/OK
15. MTS: Press to select the sound input, information is displayed in the top right-hand corner (main, stereo, SAP).
16. PIP/PBP/POP: Switch between PIP/PBP/POP modes.
17. SWAP: For PIP/PBP mode, toggle between the primary and subscreens.
18. ACTIVE: Toggle between primary and subscreens.
19. SIZE/MODE: You can change subscreen size in PIP mode. In POP mode, you can switch POP mode from 1+5 to 1+12.
20. POSITION: In PIP mode, you can change subscreen position.
21. DISPLAY: Press to display input/channel information(dependent on input/source type)
22. CC: Press to select close caption and text service between CC1, CC2, CC3, CC4, Text1, Text2, Text3, Text4.

Basic Connection

Connecting the Power Cord

1. Connect the AC cord into the AC input on the back of the set.
2. Connect the plug to the wall outlet as shown.

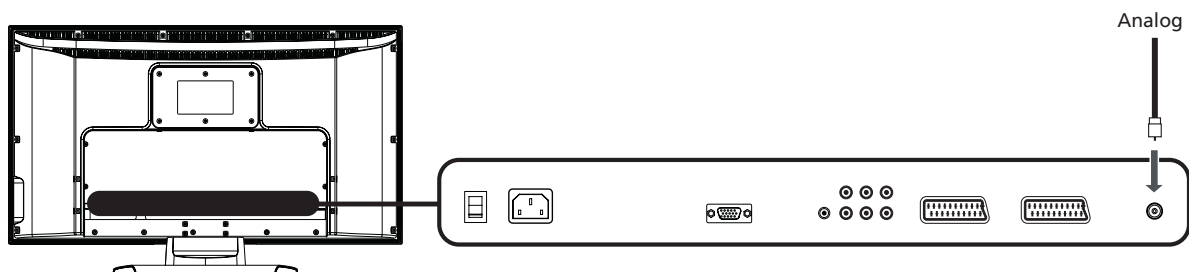
(The power cord supplied varies according to your region)



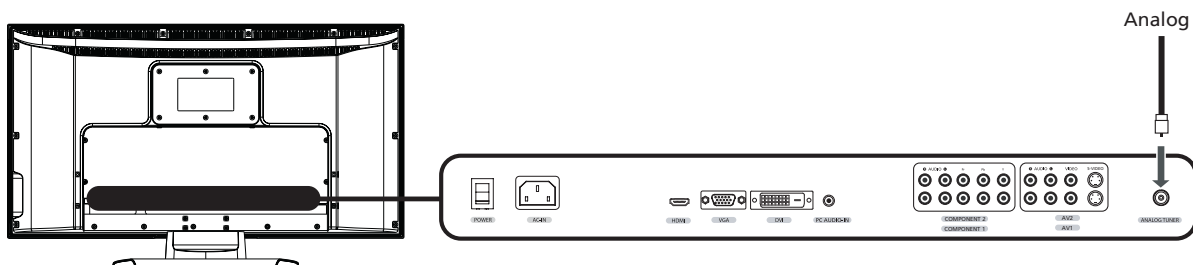
Connecting an Antenna Cable

Connect the antenna cable to the appropriate antenna terminal on the back of the TV set as shown below.

For EMEA:



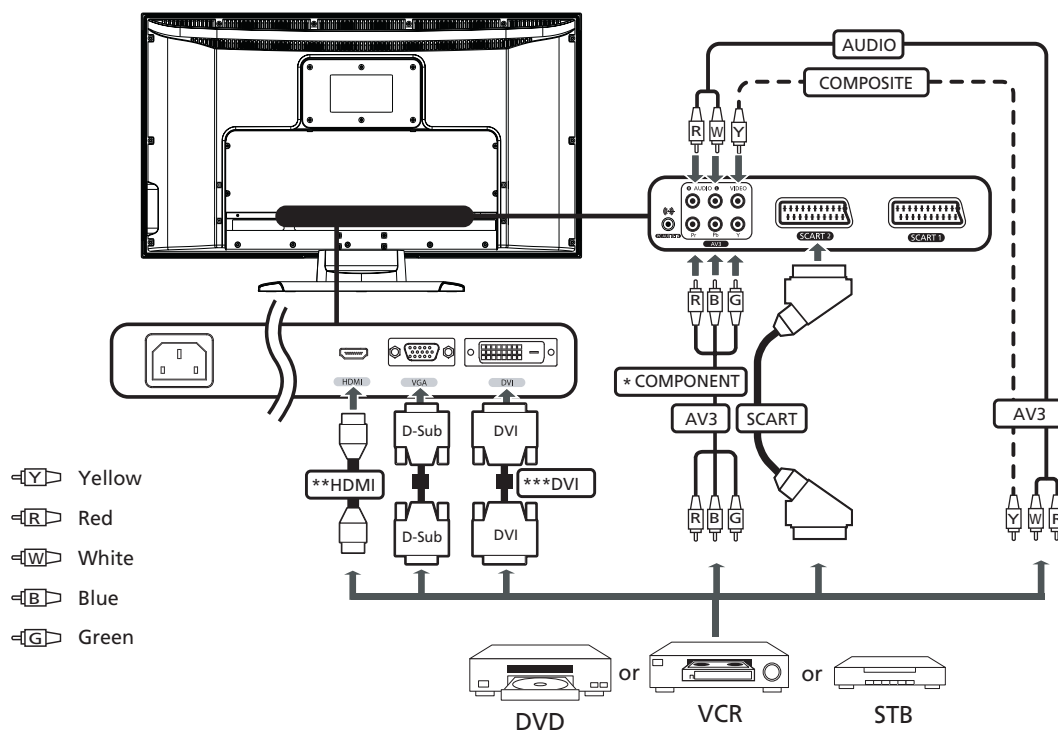
For non EMEA:



Connecting a DVD / VCR / STB / Audio / Video Equipment

Connect the DVD player, VCR or audio / video equipment using the SCART port located at the rear of the LCD TV as shown.

For EMEA:

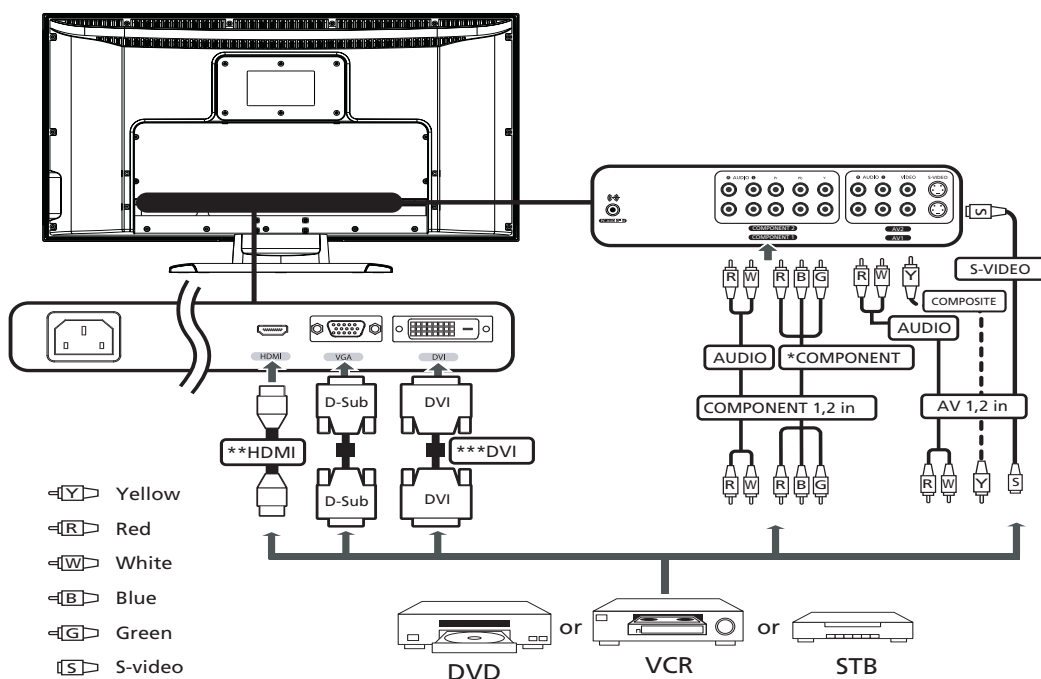


NOTE: Acer recommends the priority for connection: 1. HDMI 2. DVI 3. Component 2. SCART 3. Composite

**HDMI only for AT2604/AT2704/AT3204/AT3704

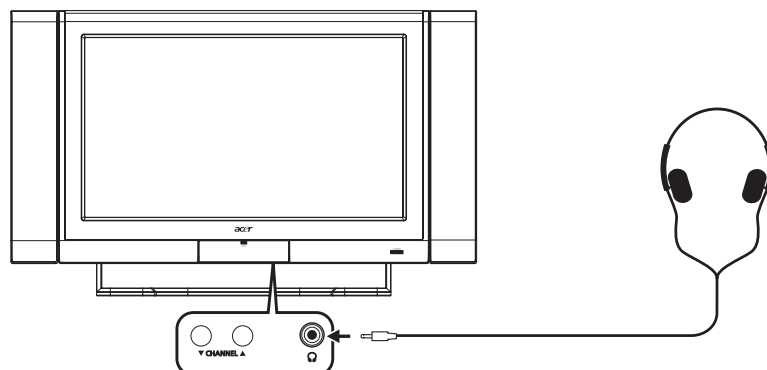
*** DVI only for AT2604/AT2703/AT2704/AT3204/AT3704

For non EMEA:



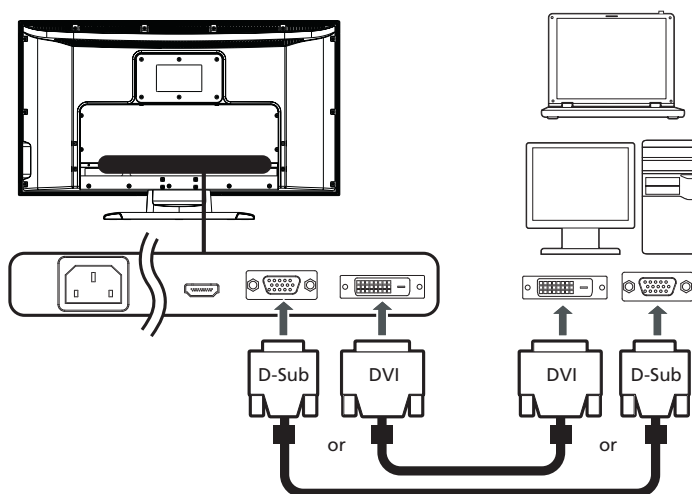
Connecting a Camera / Camcorder / Video / Headphones

Connect the camera or camcorder to the video / audio ports on the bottom of the TV set as shown below.



Connecting a Desktop / Notebook Computer

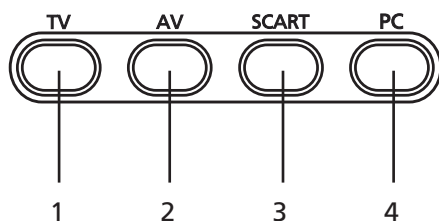
To display PC output on the LCD TV, connect the desktop or notebook computer to the TV as shown below.



NOTE: For VGA and DVI input, Acer recommends setting your PC's external monitor resolution to 1360 x 768 pixels @ 60Hz refresh rate.
DVI only for AT2604/AT2703/AT2704/AT3204/AT3704

Selecting the Input Source

Once you have connected your antenna or external equipment to the TV, you need to select the correct input source. Press the corresponding button on the remote control to select the correct input source.



1.TV key: Toggle Analog TV (ATV) between input sources.

2. AV key: Toggle AV3 and HDMI(*) between input sources.

3. COMPONENT key: Toggle COMPONENT1-2 between input sources.

4.PC key: Toggle VGA and DVI(**) between input sources.

NOTE: * HDMI only for AT2604/AT2704/AT3204/AT3704

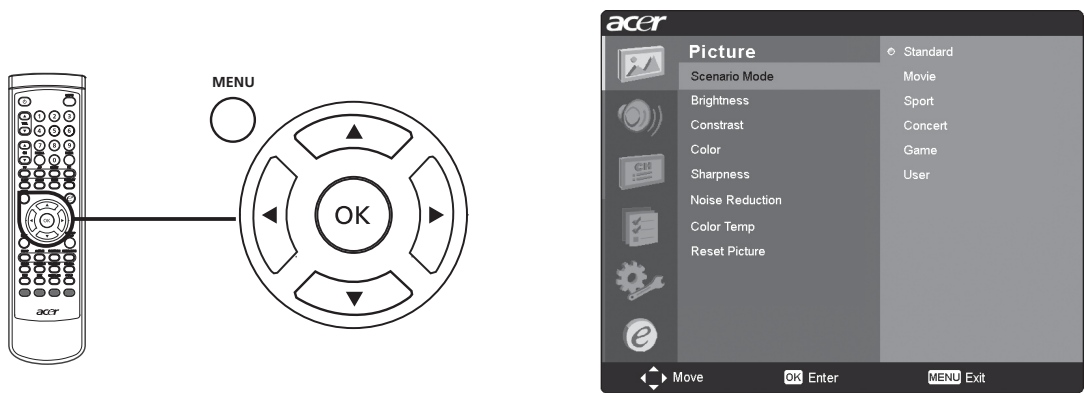
** DVI only for AT2604/AT2703/AT2704/AT3204/AT3704

OSD Navigation

Many of the advanced settings and adjustments are available through using the OSD (On Screen Display) menus, as shown in the example screenshot below.

Basic operations required to navigate these menus (Picture, Audio, Channel management, Settings, Empowering) are described in this section. The first time you access the OSD, you will be asked to choose your language settings.

Navigating the OSD with the Remote Control

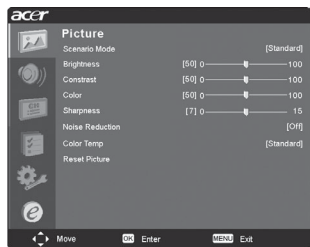
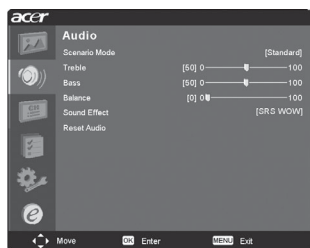
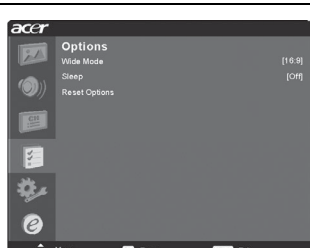
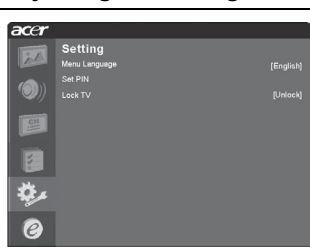


There are six main OSD menus. These are Picture, Audio, Channel management, Options, Settings and Empowering. Use the following method to navigate these menus.		
1		Press the MENU button on the remote control or the MENU button on the control panel.
2		Select your desired menu by using the up and down directional keys to switch between the six menus.
3		Use the directional keys to interact with the menu. The up / down directions will scroll through the menu options, while left / right will adjust the different settings (for example, in the Picture menu, settings such as brightness, contrast, etc.). If there are no further adjustments, hold down Enter on the remote control for more than two seconds to save the settings.

NOTE: You can also interact with these menus using the front panel controls. Please refer to “Front panel view” for details.

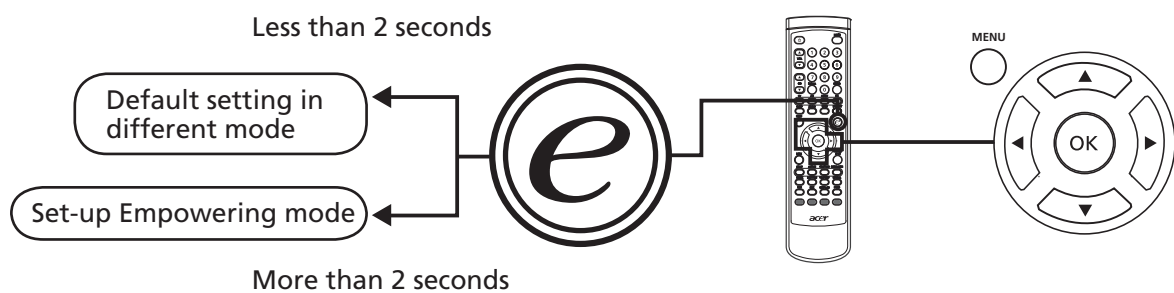
Adjusting the OSD Settings

You can use the OSD to adjust the picture quality, audio settings, channel settings, general settings and the Empowering Technology settings. For advanced settings, please refer to the following table.

Adjusting the picture quality	
	1. Press the MENU key to bring up the OSD. 2. Using the directional keys, select Picture from the OSD. Then navigate to the picture element you wish to adjust. 3. Use the left or right keys to adjust the sliding scales. 4. The Picture menu can be used to adjust the current Scenario mode, brightness, contrast, color, sharpness and other image-related qualities.
Adjusting the audio settings	
	1. Press the MENU key to bring up the OSD. 2. Using the directional keys, select Audio from the onscreen display. Then navigate to the feature you wish to adjust. 3. Use the up or down keys to adjust the sliding scale. Press OK to save. 4. The Audio menu can also be used to adjust the treble, balance, sound effects and other important sound-related settings.
Adjusting the channel management	
	1. Press the MENU key to bring up the OSD. 2. Using the directional keys, select Channel management from the OSD. 3. Use the directional keys to navigate the menus. 4. The Channel management menu can be used to adjust and set the TV ratings.
Adjusting other options	
	1. Press the MENU key to bring up the OSD. 2. Using the directional keys, select Options from the OSD. 3. Use the directional keys to navigate the menus. 4. The Options menu can be used to select the picture aspect-ratio mode and set the sleep timer.
Adjusting the settings	
	1. Press the MENU key to bring up the OSD. 2. Using the directional keys, select Settings from the OSD. Then navigate to the feature you wish to adjust. 3. The Settings menu can be used to adjust the menu language, time zone, set the PIN, the TV censorship levels, and other important settings.

NOTE: The options available on the OSD may vary depending on the TV signal source. Some digital options may not be available with an analog signal and vice versa.

Empowering Technology



The Empowering Key opens up the Acer Empowering Technology functions. In TV mode, the choice is between Scenario mode and Favorite channel. The default setting for both modes is Scenario mode.

Set-up Empowering mode

To change the Empowering Key's default setting:

1		Press and hold the Empowering Key for more than two seconds to open the menu. The TV mode Empowering Key settings menu will come out as below.
2		
		Use the directional keys to navigate the menu and select the Empowering Technology icon.
3		Press MENU to exit. Now, when you press the Empowering Key, your chosen selection will be accessed.

Defaulting setting in different Empowering mode

Scenario mode in TV (default setting)

Scenario mode has five preset viewing modes designed to give you the best picture quality when watching a particular kind of program. There are five pre-defined audio and video settings for optional enjoyment of the following scenarios: Standard TV, Movie, Sport, Concert, Game, User.

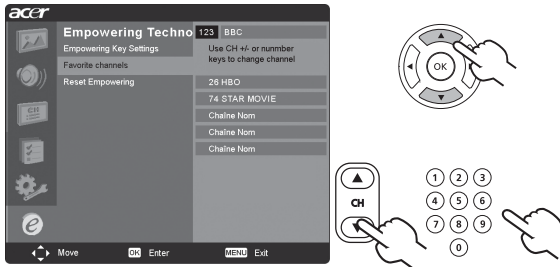


Press the Empowering Key for less than one second will toggle between the different modes.

Mode	Information
Standard	Standard mode allows you to watch your favorite channels with sharp, brilliant imagery via adaptive brightness and contrast adjustments, and listen to clear-sounding audio.
Movie	For comfortably enjoying movies at home, Movie mode displays dim scenes in clear detail; compensates for color; and smoothly presents motion images. This is accomplished through optimal Gamma correction plus saturation, brightness and contrast adjustments. Movie mode makes the most of high-definition movie sound tracks.
Game	Game mode carefully details the exquisite graphics of modern video games, providing lifelike entertainment while protecting your eyesight by adjusting brightness and contrast. What's more, Game mode provides a heightened audio experience.
Sports	Sports mode is suited for outdoor sports programs, with accurate background depth and clear gradation between the bright, outdoor playing field and darker auditoriums. Sports mode also brilliantly enhances colors and presents swiftly moving pictures without residual images. All of this is achieved via specific Gamma corrections and saturation adjustments. Precise audio can be heard.
Concert	Concert mode places you in a virtual concert hall, opera house or other dim environment by means of adaptive brightness and contrast adjustments. Concert mode accentuates symphonic harmonies and the tenor audio range.

Favorite channel mode in TV

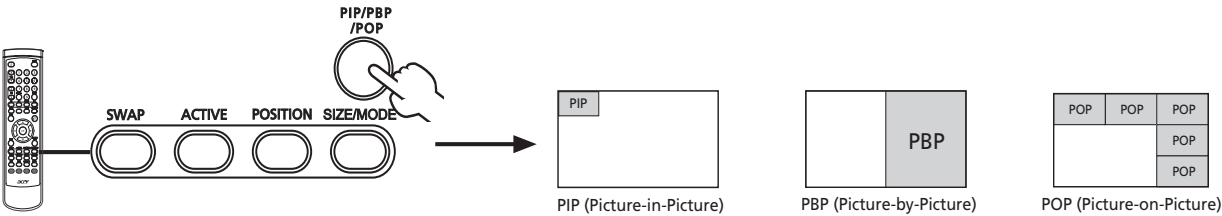
Favorite channel allows you to store five of your favorite TV channels and flick between them at the touch of a single button.

Storing favorite channels		
1	MENU 	Select your desired channel, then press the MENU key on the remote control.
2		Use the directional keys to navigate the menu and select the Empowering Technology icon.
3		Navigate to a channel slot, use CH up/down or number key to change channel. There are a total of five slots in which you can store TV programs.
Viewing the favorite channels		
		On the remote control, if you press the Empowering Key for less than one second, the TV will toggle between the five stored TV channels sequentially according to your list of favorites.

Advanced Features

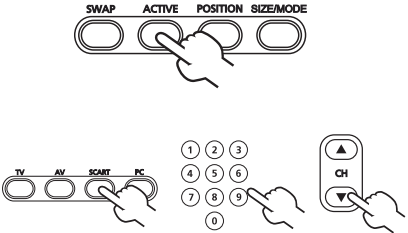
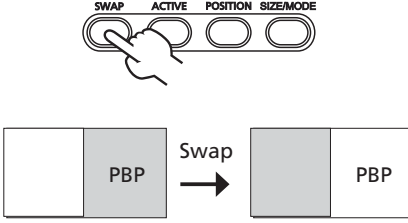
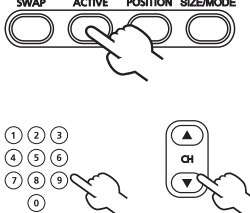
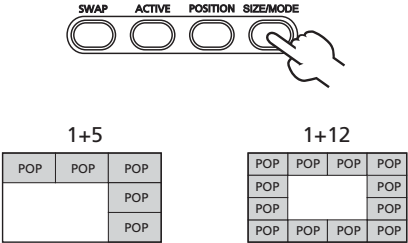
PIP / PBP / POP

Press the PIP / PBP / POP button once to display activate picture-in-picture (PIP). Press twice to activate picture-by-picture (PBP). Press three times to activate picture-on-picture (POP). Then, the POP screens will display the TV channel programs one by one.



NOTE: The OSD menu is not available in PIP / PBP / POP modes.

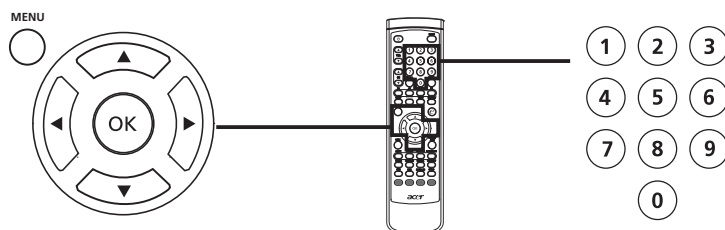
PIP		1. Press the Activate key to toggle between PIP screens. 2. Press the TV, AV, SCART(COMPONENT) or PC keys, number keys or CH up or down to change the content of the active screen.
		3. Press SWAP key to change the content between the primary and the subscreen.
		4. Press the POSITION key to select the location of the subscreens, from the upper left→upper right→lower right→lower left, as shown in the image.
		5. Press the SIZE / MODE key to select the size of the subscreen, from 25%→37.5%→50%, as shown in the image.

PBP		1. Press the ACTIVE key to toggle between PBP screens. 2. Press the TV, AV, SCART(COMPONENT) or PC keys, number keys or CH up or down to change the content of the active screen.
		3. Press the SWAP key to change the content between the primary and the PBP screen.
POP		1. Press the ACTIVE key to toggle between POP screens. 2. Press the number keys or CH up or down to change the TV channel on the active screen.
		3. Press the SIZE / MODE key to access the 1 + 5 or 1 + 12 picture-on-picture mode as shown in the image.

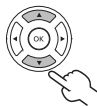
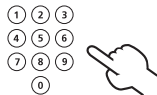
Lock TV

Locking TV content

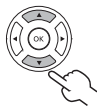
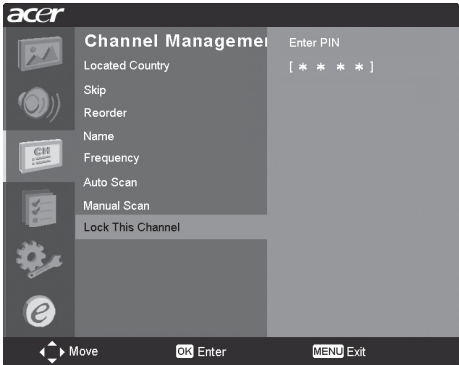
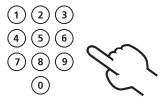
Lock TV is a handy feature that can block a single channel, multiple channels or all TV sources. Lock TV allows you to enter a password and effectively stop anyone without the password from watching TV.

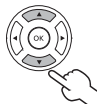
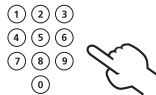


Follow the procedures below to enable this feature.

Setting a personal PIN		
1		Navigate to the channel you wish to manage.
2	MENU 	Press the MENU key on the remote control to bring up the OSD. 
3		Use the directional keys to navigate to the  Settings menu. Then select Set PIN .
4	 	Enter a four-digit password. Type it again and press OK to reconfirm.
5	MENU 	Press MENU to exit.

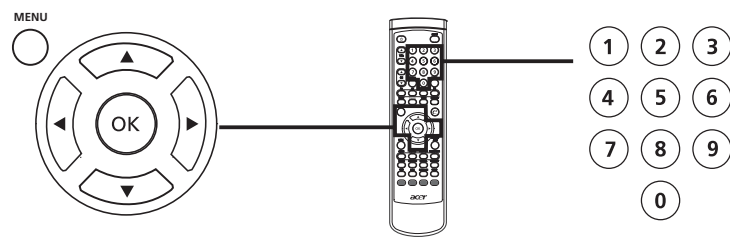
NOTE: The default PIN for this TV is “0000”. First enter “0000” when you want to change the PIN. If you forget your PIN, please enter 6163 to reset.

Locking a single channel		
1		Navigate to the channel you wish to manage.
2	MENU 	Press the MENU key on the remote control to bring up the OSD. 
3		Use the directional keys to navigate to the  Channel management menu. Then select Lock this channel .
4	 	Enter you PIN. Type it again and press OK to reconfirm.
5	MENU 	Press MENU to exit.

Locking your TV		
1		Navigate to the channel you wish to manage.
2	MENU 	Press the MENU key on the remote control to bring up the OSD. 
3		Use the directional keys to navigate to the  Settings menu. Then select Lock TV .
4	 	Enter a four-digit password. Type it again and press OK to reconfirm.
5	MENU 	Press MENU to exit.

Re-scan for Channels

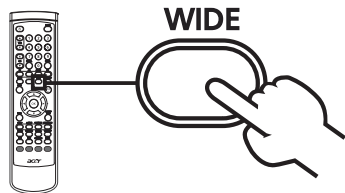
The first time you completed the setup wizard, all available channels were listed. If you need to re-scan for new channels, please follow the steps below:

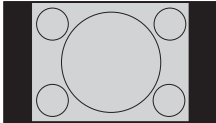
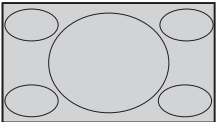
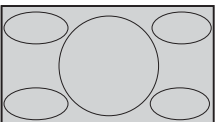
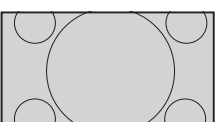


		Scanning for channels	Auto-scan
1	MENU 	Press the MENU key on the remote control to bring up the OSD.	
2		Use the directional keys to navigate and select	
3		Highlight Auto Scan . Then select Start and press OK to begin.	
4	 	Select OK and press MENU to exit.	

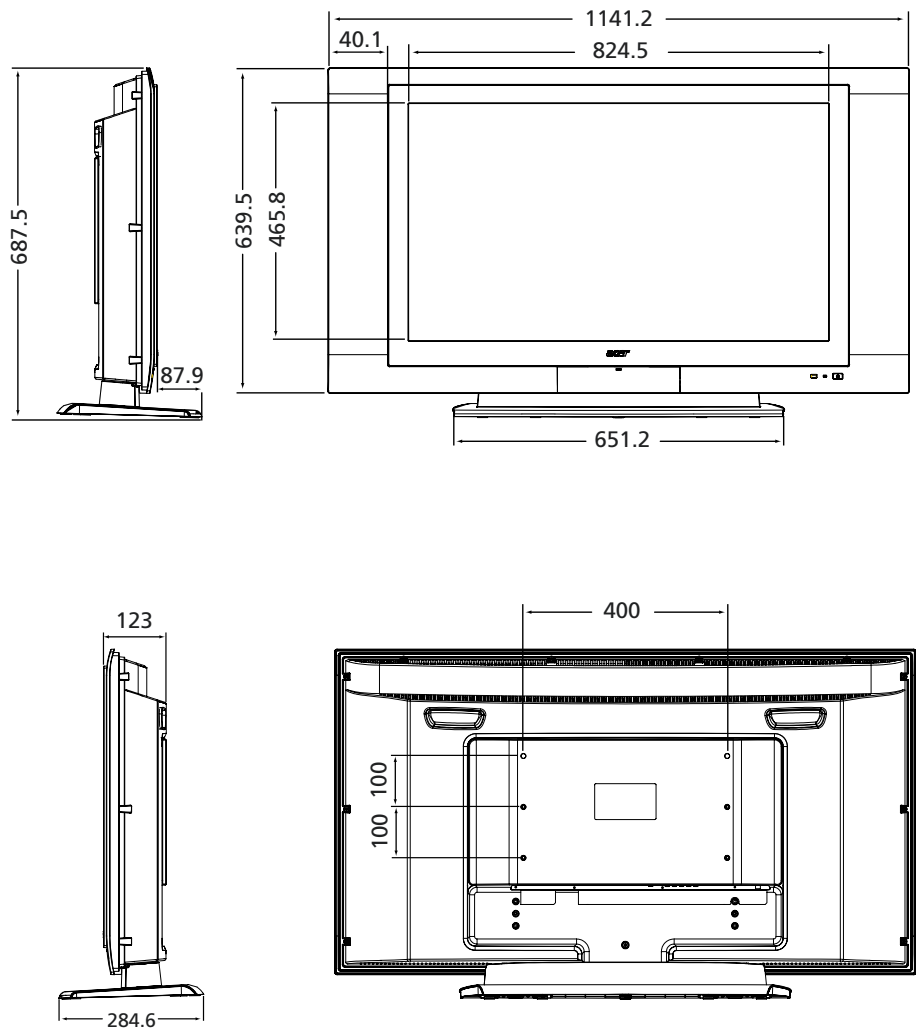
Widescreen Display Mode

Your Acer LCD TV has a special widescreen mode that allows you to toggle between 4:3, 16:9, Panorama and Letterbox 1, 2 and 3 type view. Press the WIDE key on the remote control to toggle the display between the four wide modes.



4:3	For 4:3 standard pictures, a side bar will appear on each side.
	
16:9	In this mode, the whole picture is stretched toward each side of the screen
	
Panorama	In this mode, the picture is progressively stretched toward each side of the screen.
	
Letterbox 1, 2, and 3	In this mode, the picture is enlarged linearly to fit the screen. The top and bottom portions of the picture may be cut off.
	

Dimensions



NOTE: Unit: mm

Source Options

PIP/PBP

Sub Main	TV	SCART1	SCART2	AV3	VGA
TV	X	X	X	X	●
SCART1	X	X	X	X	●
SCART2	X	X	X	X	●
AV3	X	X	X	X	●
VGA	●	●	●	●	X

POP

Sub Main	TV	SCART1	SCART2	AV3	VGA
TV	X	X	X	X	●
SCART1	X	X	X	X	X
SCART2	X	X	X	X	X
AV3	X	X	X	X	X
VGA	X	X	X	X	X

Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the LCD TV AT3704 for maintenance and troubleshooting.

To disassemble the LCD TV AT3704, you need the following tools:

- ☐ Wrist grounding strap and conductive mat for preventing electrostatic discharge
- ☐ Small Philips screw driver
- ☐ Hex screw driver
- ☐ Philips screw driver

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components. When you remove the stripe cover, please be careful not to scrape the cover.

General Information

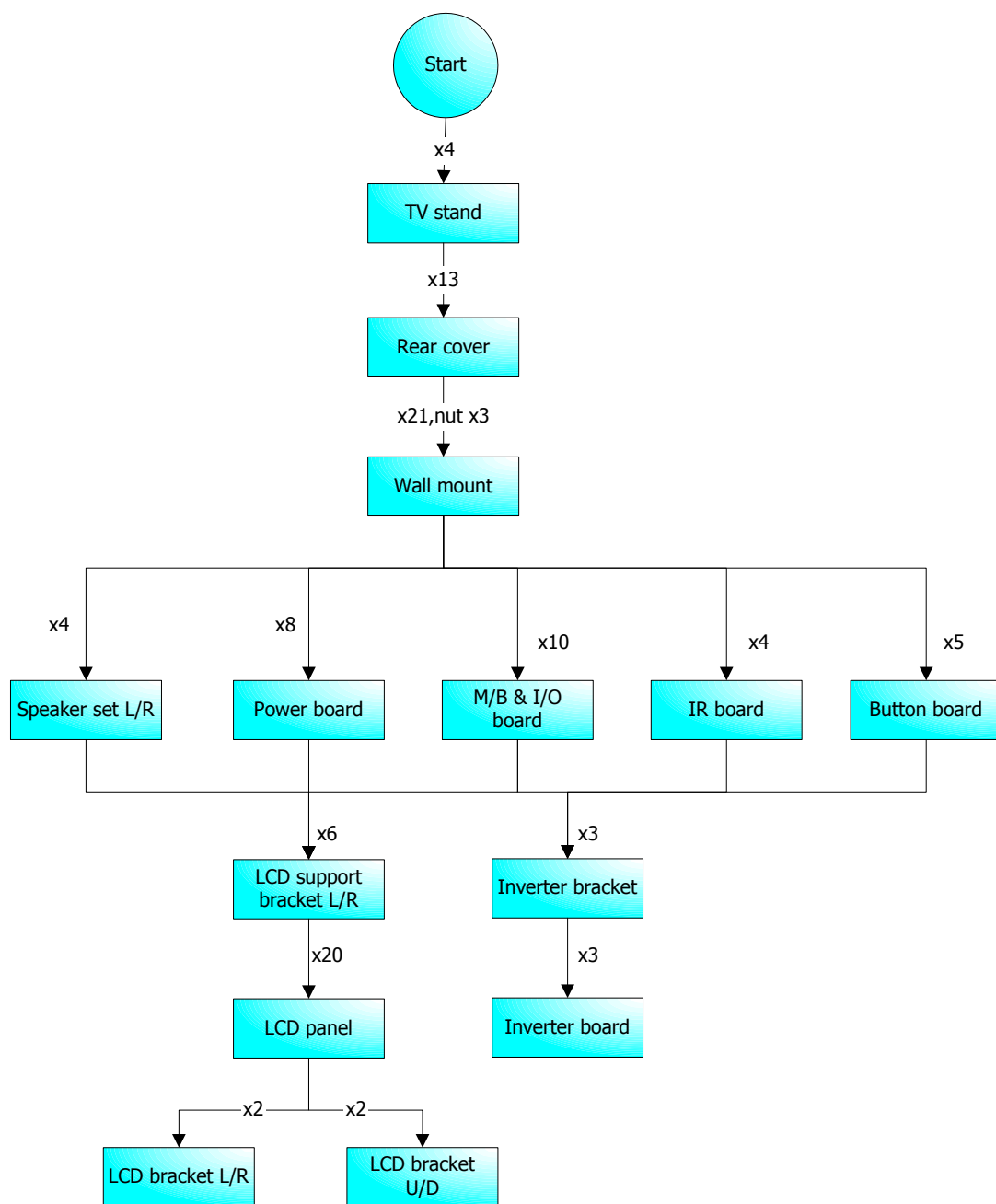
Before You Begin

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

1. Turn off the power to the system and all peripheral.
2. Unplug the AC adapter and all power and signal cables from the system.

NOTE: There are several types of screws used to secure the product. The screws vary in length. Please group the same type of screws together during the disassembly process as well as remember the screw location for each screw type. If you fasten the screws to the wrong location, the screws may cause damage to the product.

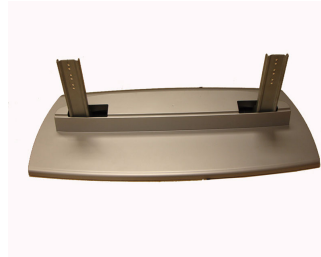
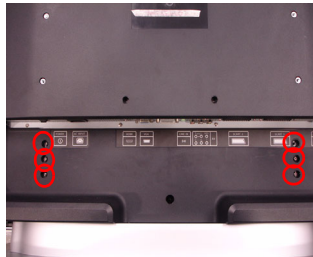
Disassembly Flow Chart



Disassembly Procedure

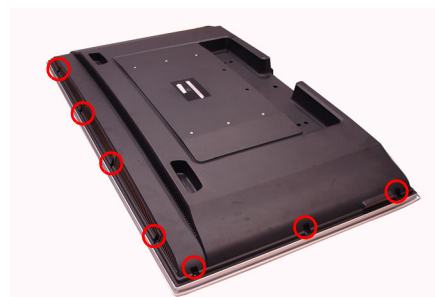
Removing the TV Stand

1. Release the six screws fastening the TV stand.
2. Then pull out the TV stand.



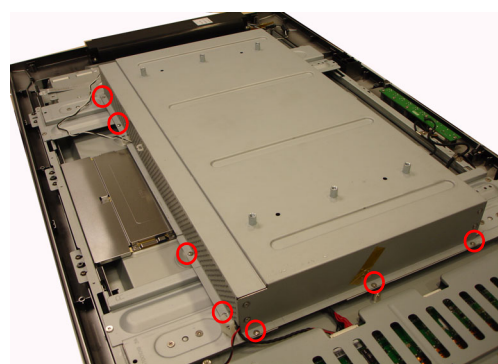
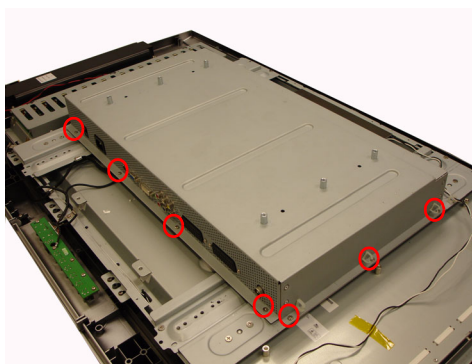
Removing the Rear Cover

1. Remove the six screws on left and right side.
2. Remove the four screws on the top.
3. Remove the three screws on the bottom.

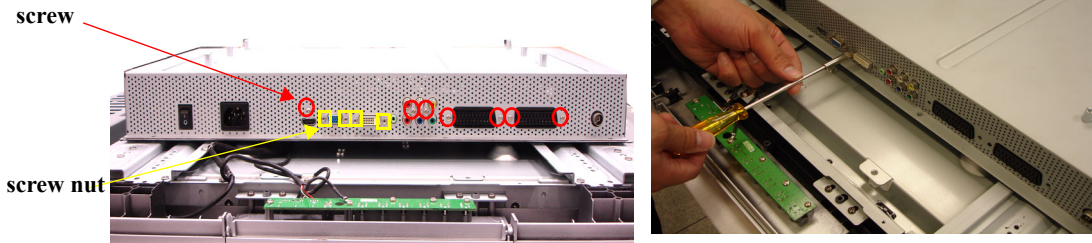


Removing the Wall Mount

1. Remove the six screws on the left and right side.
2. Remove the four screws on the top.
3. Remove the four screws on the bottom.



4. Remove the seven screws and four screw nut as shown.

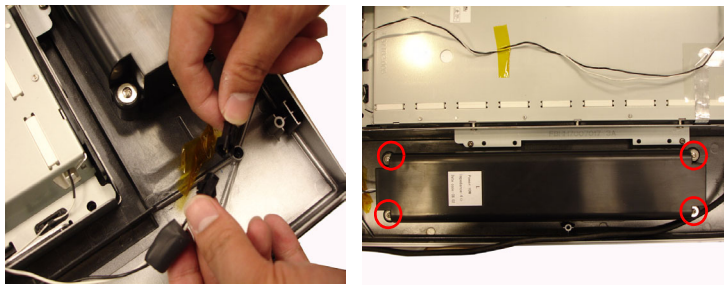


5. Lift up the wall mount.

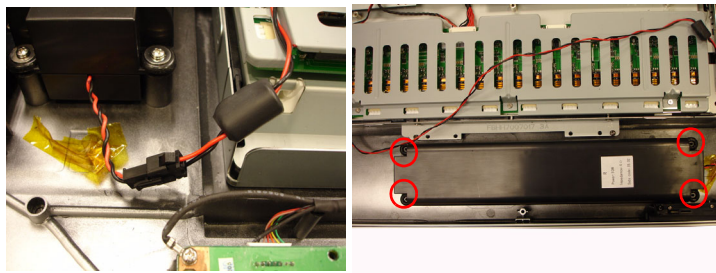


Removing the Speakers

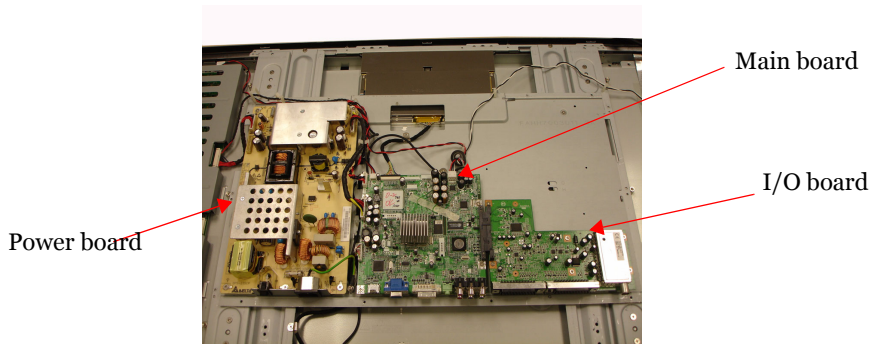
1. Disconnect the left speaker connector.
2. Remove the four screws securing the left speaker and remove it.



3. Disconnect the right speaker connector.
4. Remove the four screws securing the right speaker and remove it.

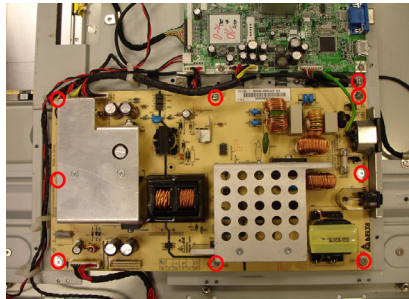


Board Diassembly



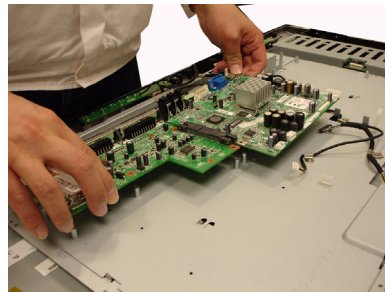
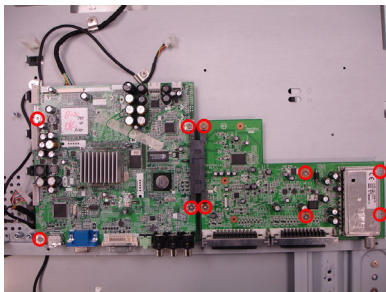
Removing the Power Supply Board

1. Release the eight screws securing the power supply board and the cables then detach the power supply board.



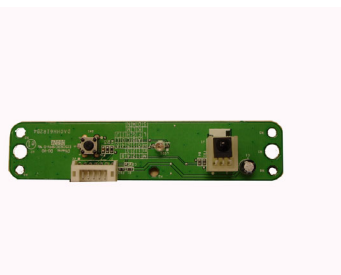
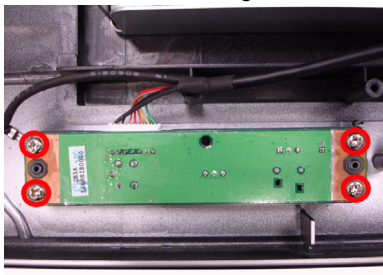
Removing the Main Board and I/O Board

1. Remove the four screws securing the main board and the six screws securing the I/O board.
2. Remove the main board and I/O board.



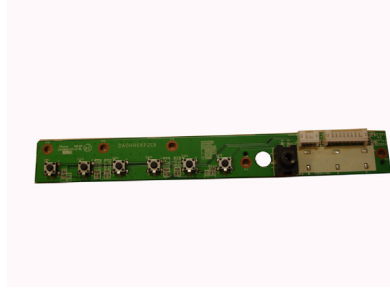
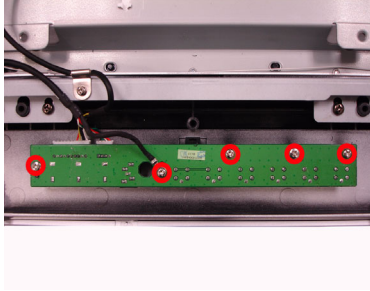
Removing the IR Board

1. Remove the four screws securing the IR board and remove the IR board.



Removing the Button Board

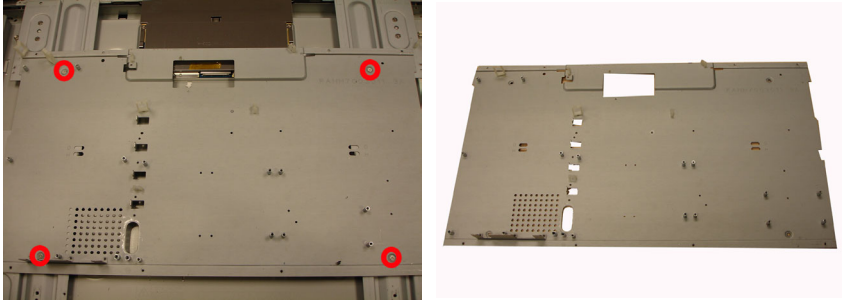
1. Remove the five screws securing the button board and remove the button board.



Removing the LCD Panel

Removing the Main PCB Tray

1. Remove the four screws securing the main PCB tray and remove it.

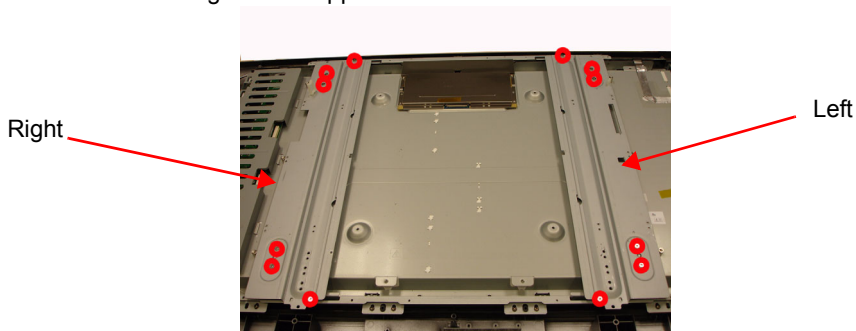


NOTE: When reassemble the main PCB tray, please make sure to aim the protrusion on LCD support bracket at hole **H** on PCB tray.



Removing the LCD Support Bracket

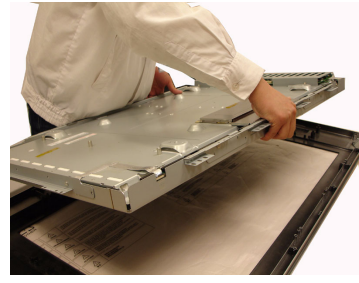
1. Remove the six screws securing the left LCD support bracket and remove the six screws securing the right LCD support bracket.
2. Remove the left and right LCD support brackets.



Removing the LCD Panel

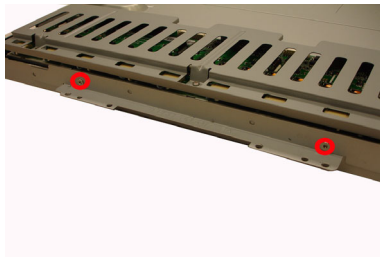
1. Remove the eight screws securing the LCD panel on the top side and remove the eight screws securing the LCD panel on the bottom side.

2. Remove the two screws securing the LCD panel on the left side and remove the two screws securing the LCD panel on the right side.



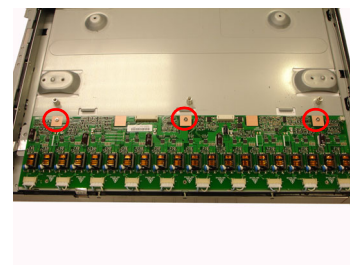
Removing the LCD Brackets

1. Remove the two screws securing the right LCD bracket. (left LCD bracket is the same as the right LCD bracket)
2. Remove the two screws securing the top LCD bracket. (bottom LCD bracket is the same as the top LCD bracket)



Removing the Inverter Board

1. Remove the three screws securing the inverter bracket and remove the inverter bracket.
2. Remove the three screws securing the inverter board and disconnect all the connectors.
3. Remove the inverter board.



Troubleshooting

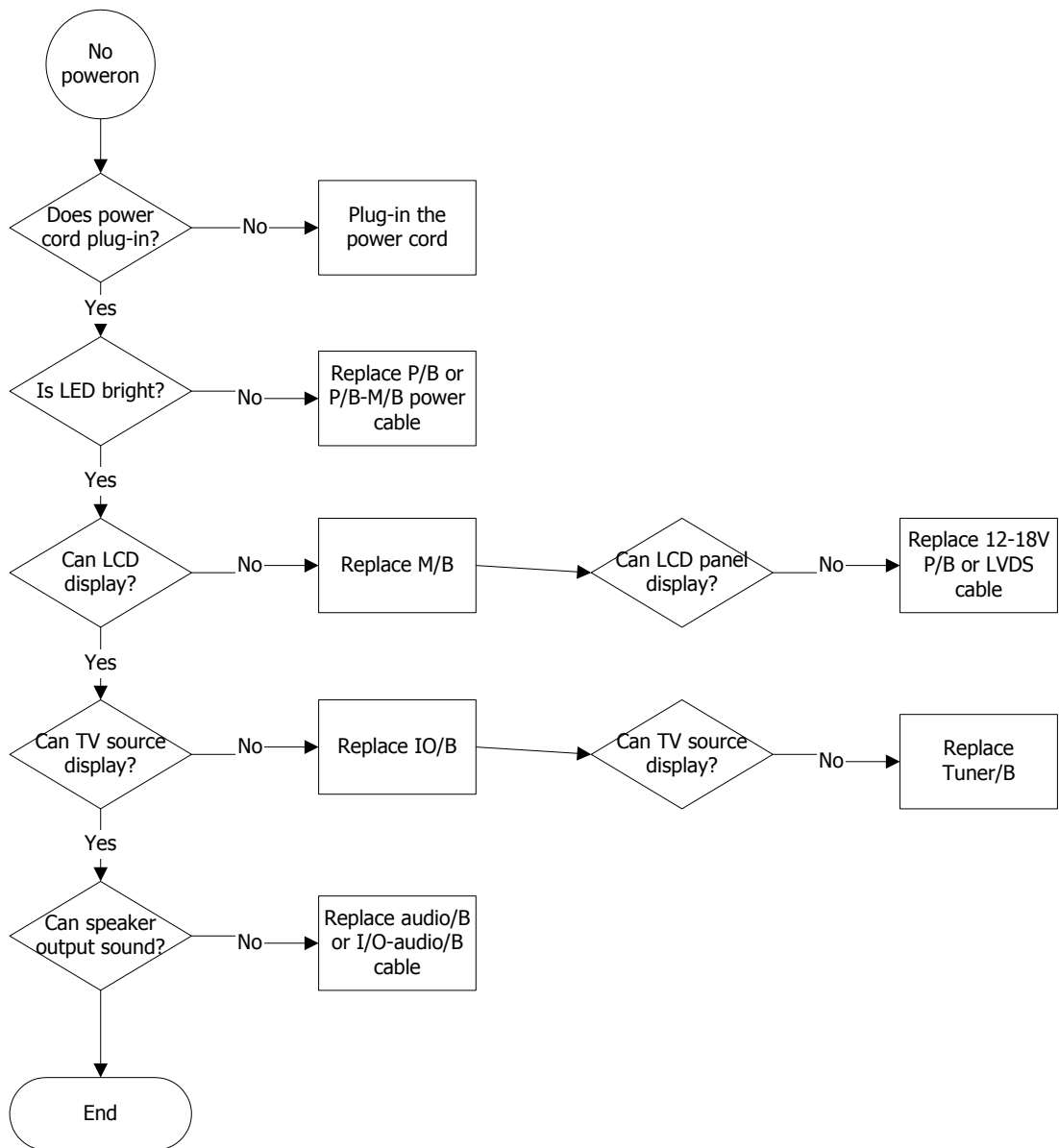
Use the following procedure as a guide for Acer LCD TV AT3704 problems.

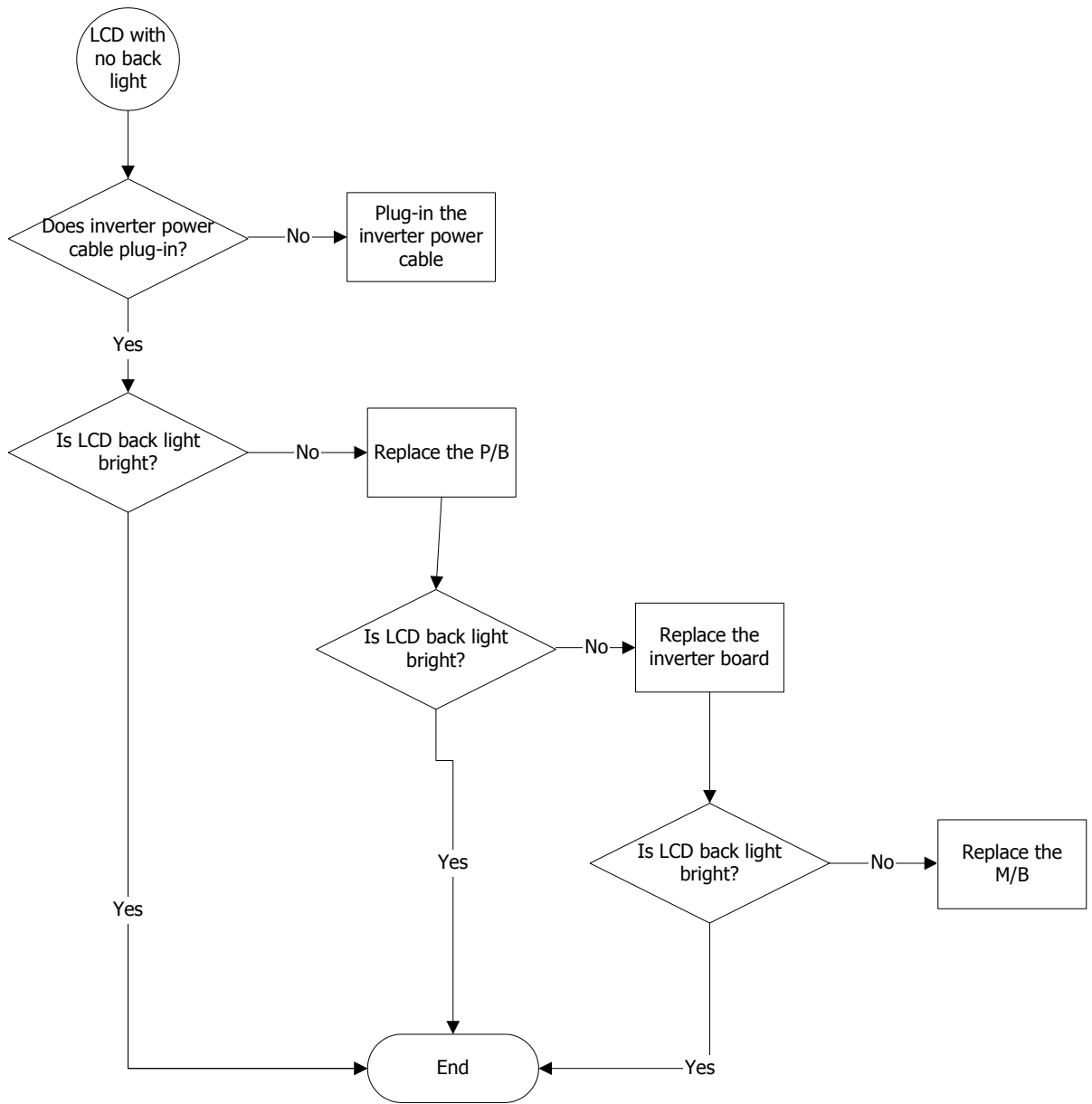
NOTE: The diagnostic tests are intended to test this model. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

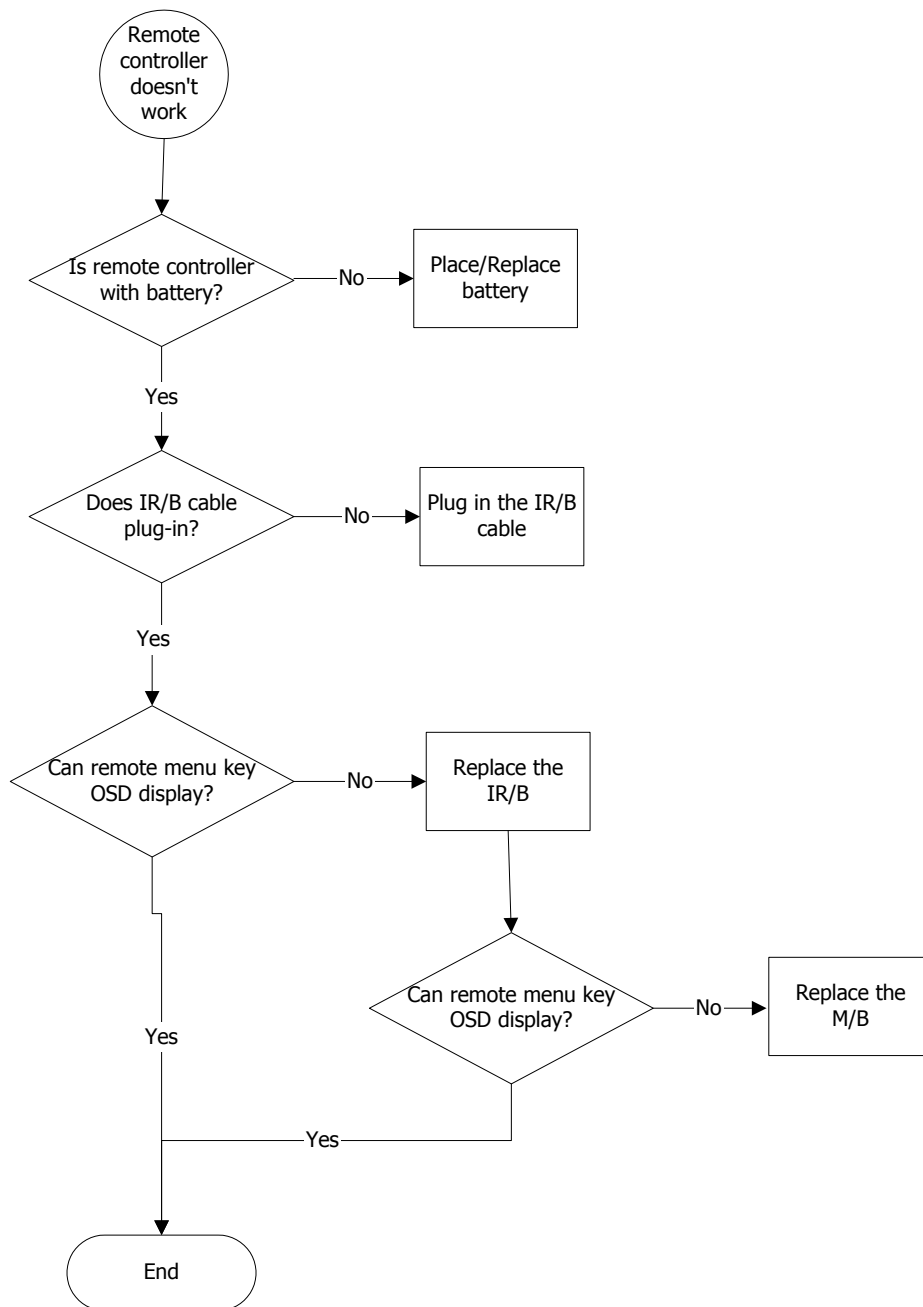
1. Duplicate symptom and obtain the failing symptoms in as much detail as possible.
2. Distinguish symptom. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Disassemble and assemble the unit without any power sources.
4. 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.

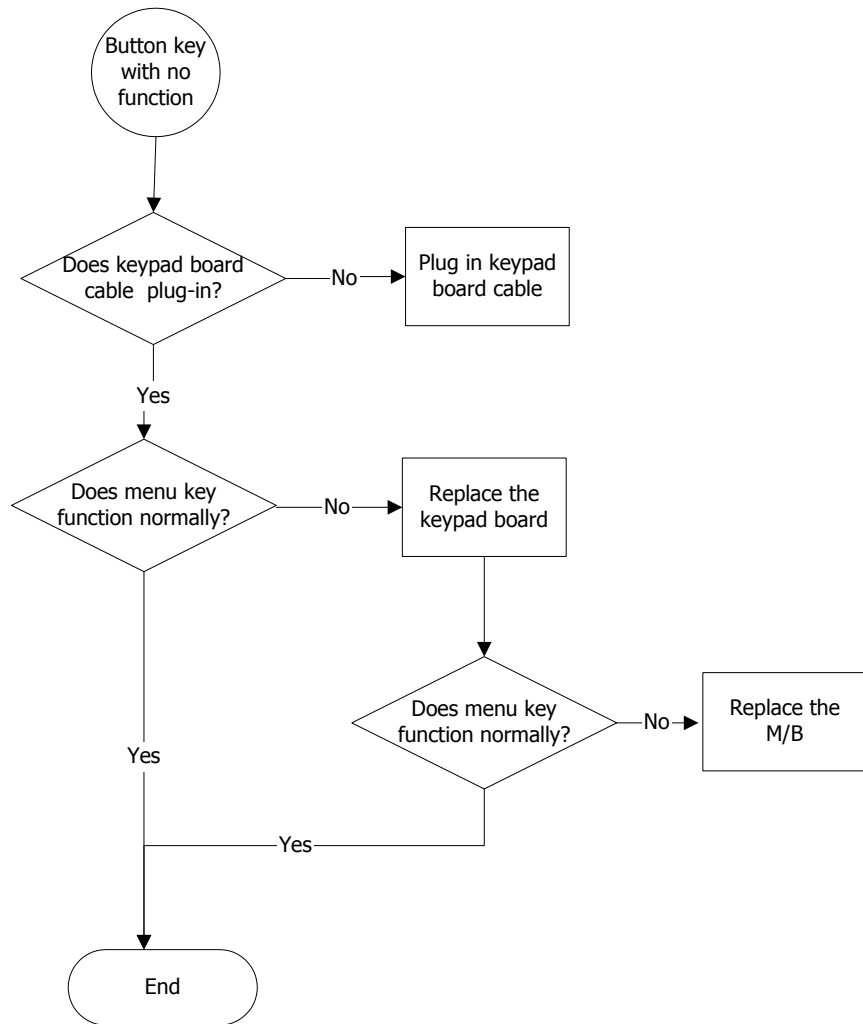
Problem List

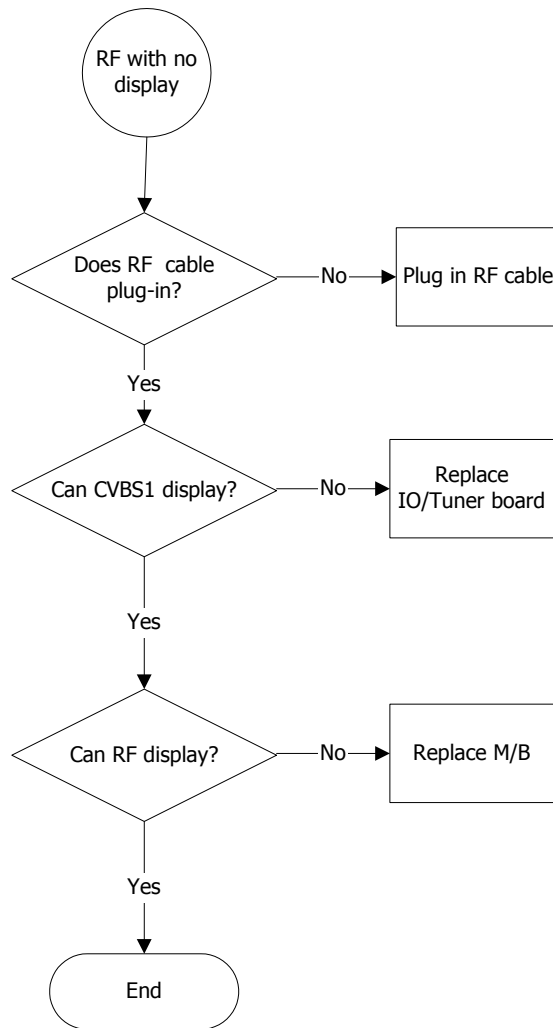
- ☐ No power on
- ☐ LCD panel with no back light
- ☐ Remoter controller does not work
- ☐ Button key with no function
- ☐ RF with no display
- ☐ SCART RGB can not display
- ☐ SCART CVBS can not display
- ☐ SCART S-Video can not display
- ☐ VGA with no display
- ☐ DVI with no display
- ☐ HDMI with no display
- ☐ VGA/DVI with no sound
- ☐ SCART with no sound

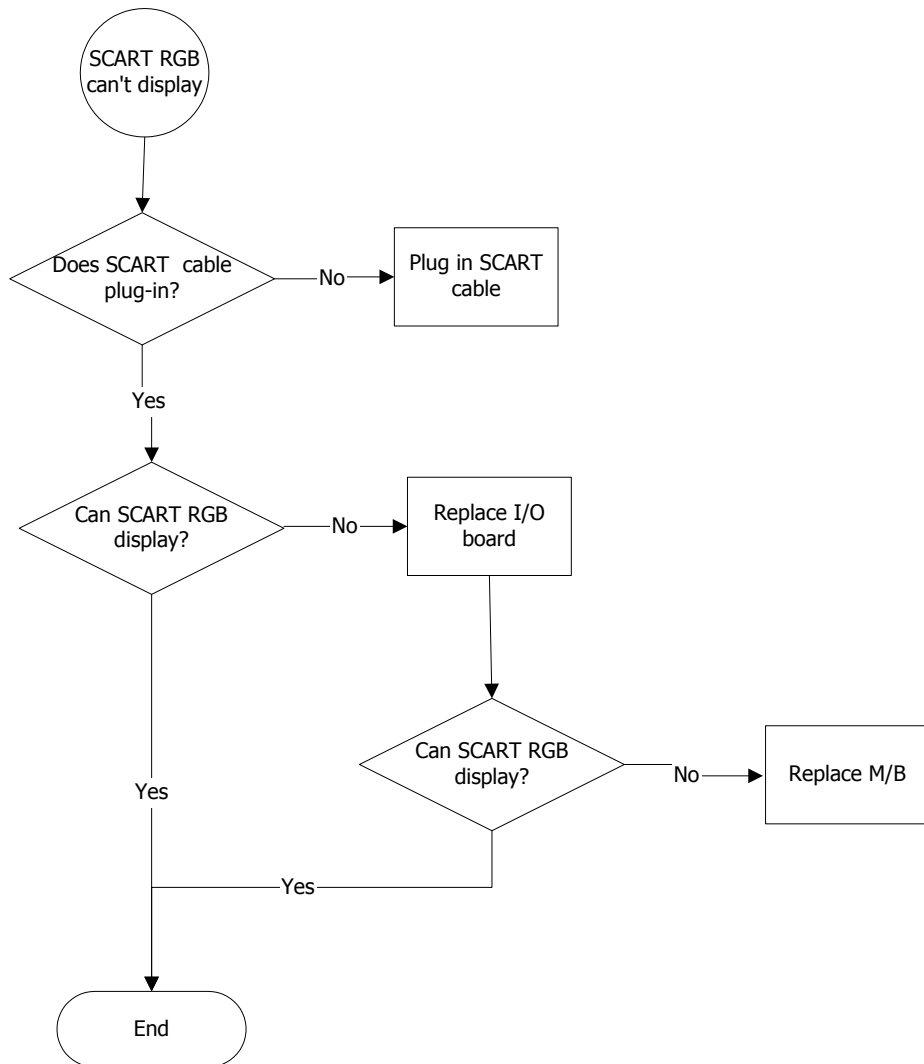


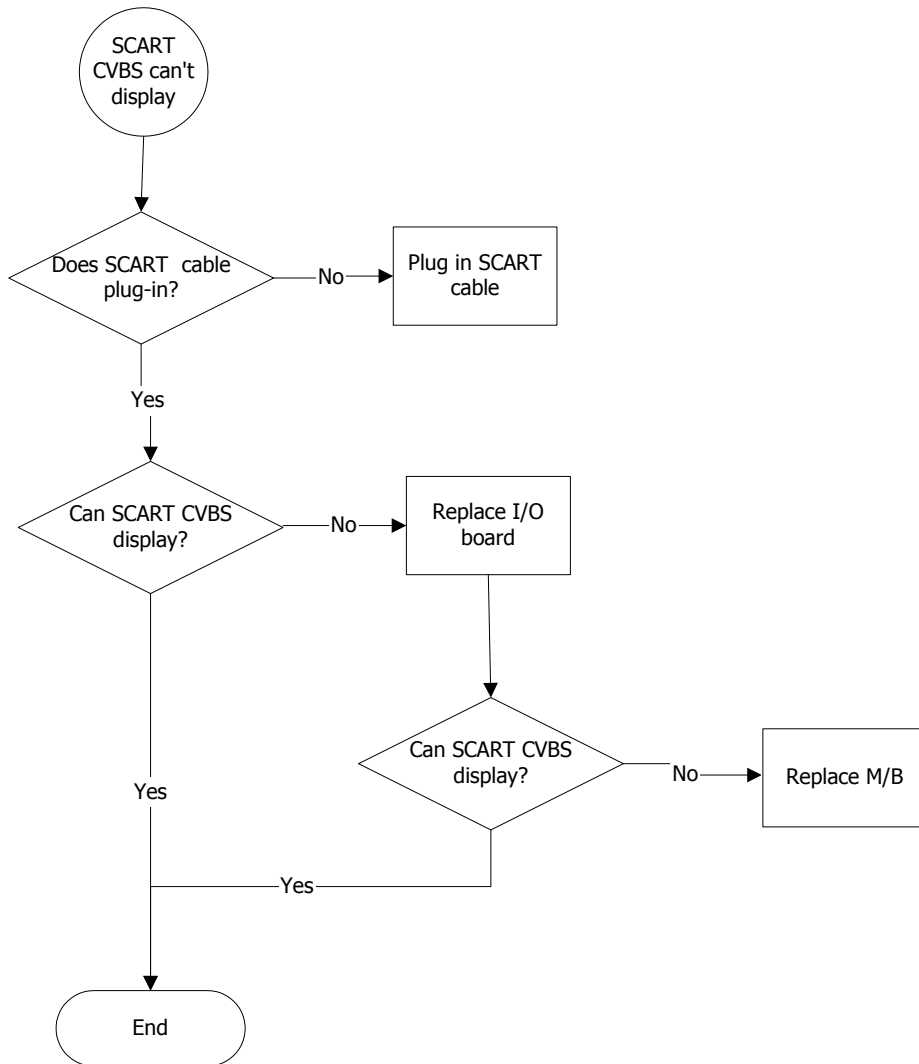


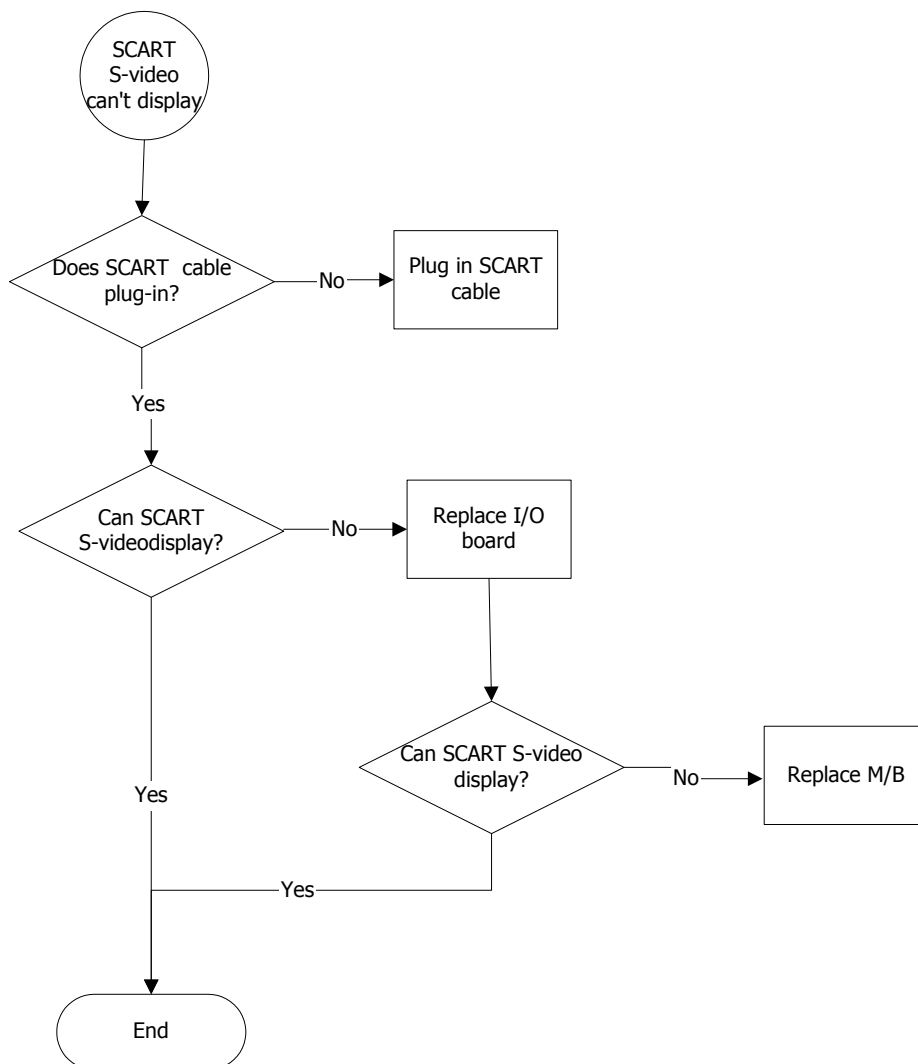


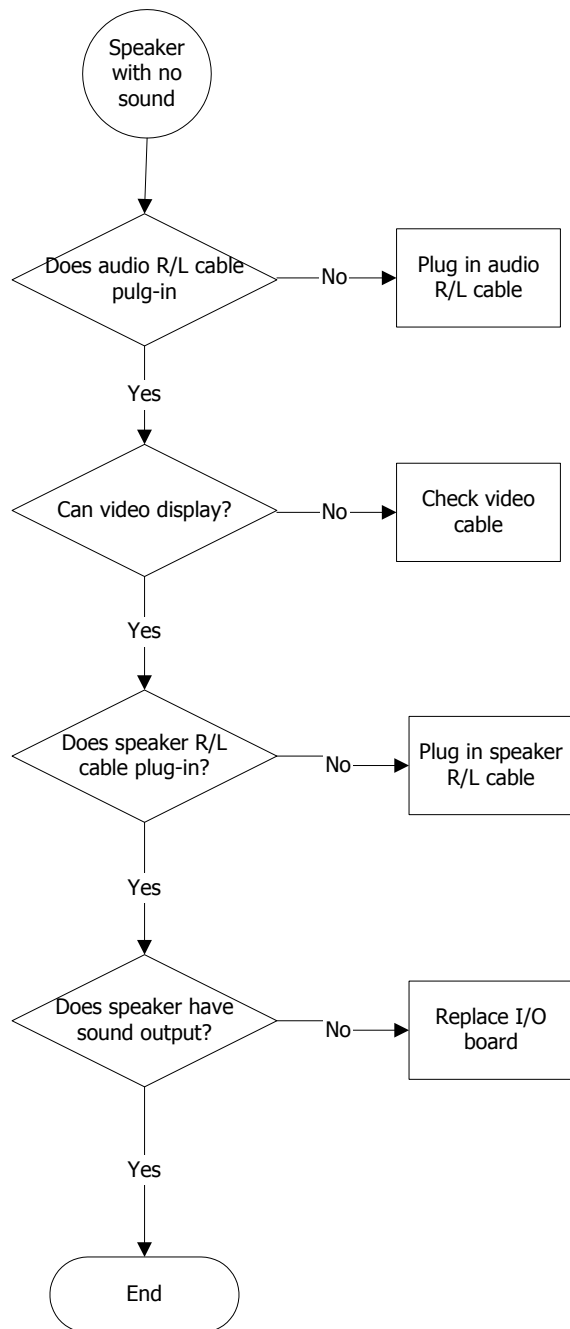


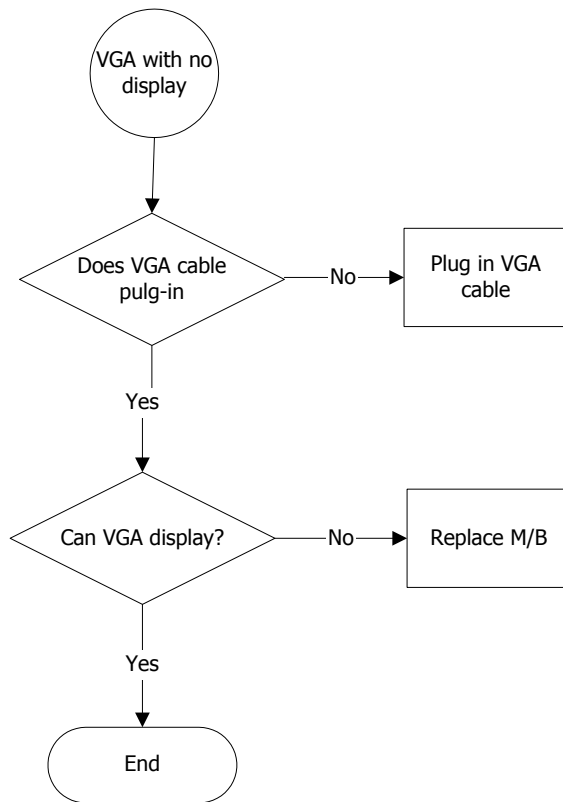


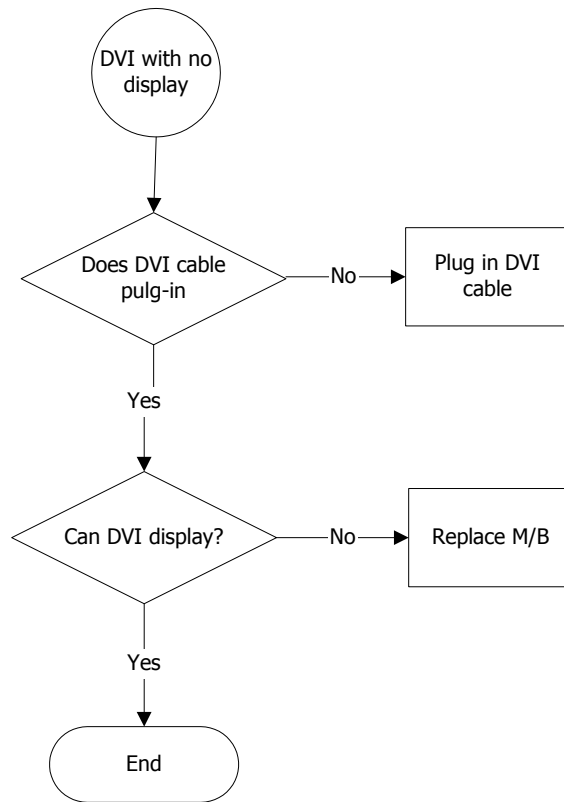


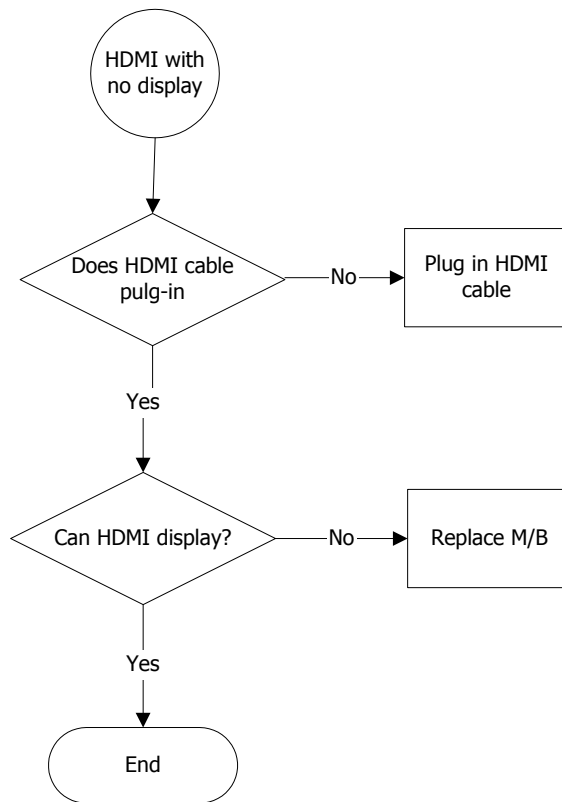


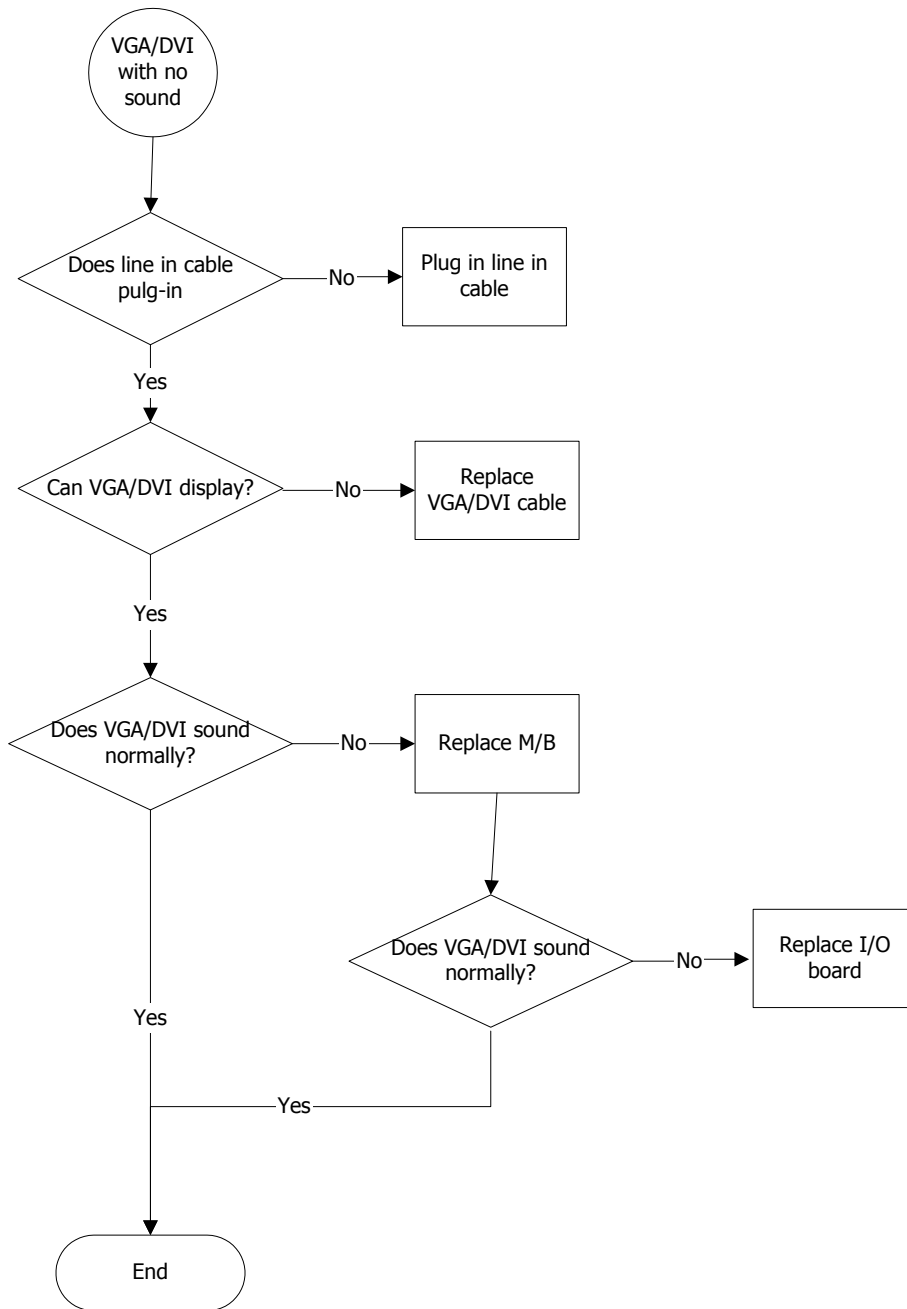


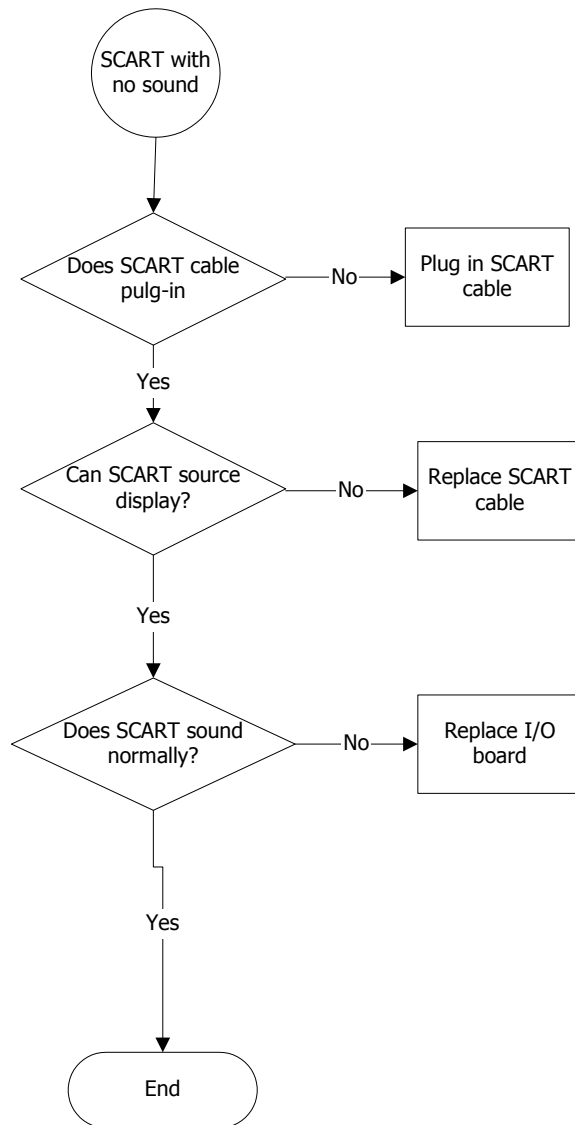












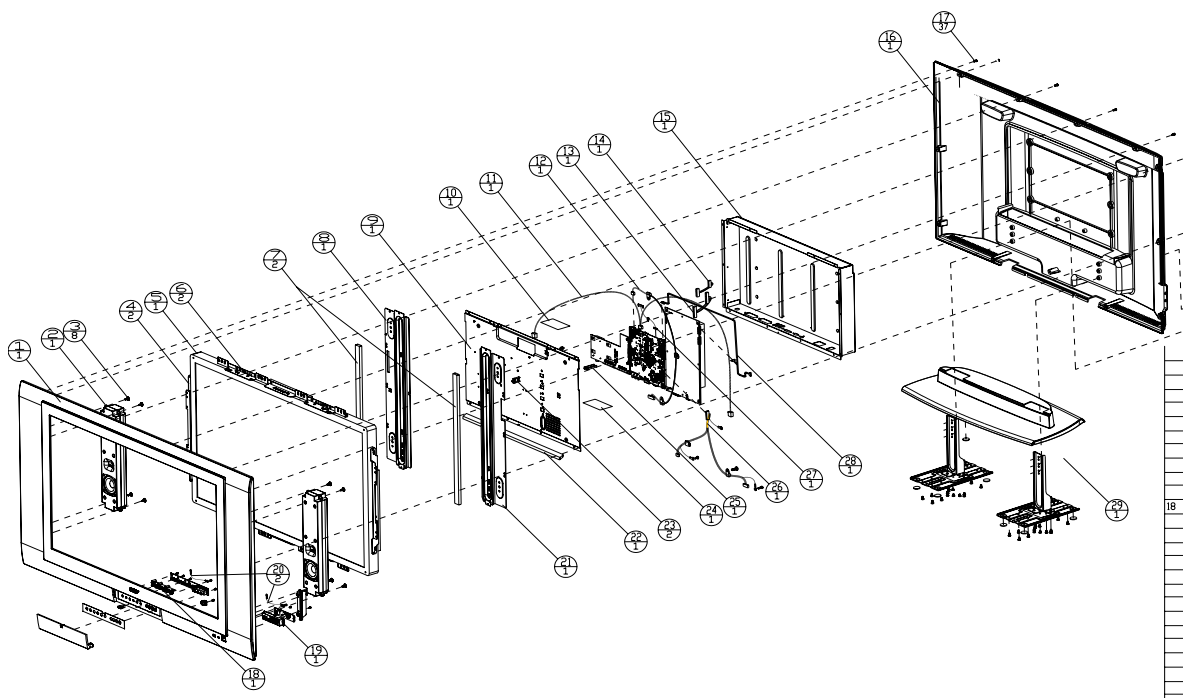
FRU (Field Replaceable Unit) List

This chapter offers the FRU (Field Replaceable Unit) list in global configuration of AT3704. Refer to this chapter whenever ordering the 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 is changed, it will NOT be noted on the printed 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 service.

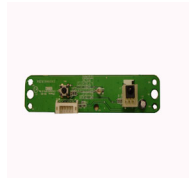
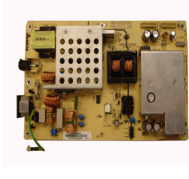
NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose them properly, or follow the rules set by your regional Acer office on how to return it.

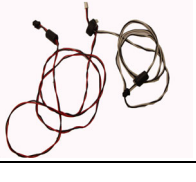
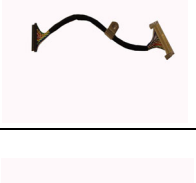
Exploded Diagram



Item	Description	Item	Description
1	LCD bezel	2	Speaker
3	Screw T3*12-B(NI)EP	4	Side bracket R/L
5	LCD panel	6	Side bracket D/U
7	Gasket(LCD support)	8	LCD support bracket L
9	Main PCB tray	10	Conductive tape
11	Cable M/B to speaker	12	Cable M/B/IR/button B
13	Cable M/B to power B	14	Cable audio to power B
15	Wall mount shield	16	Rear cover
17	Screw T4*10-P	18	Function key
19	HH6 power-IR-LED	20	Cable GND
21	LCD Support bracket R	22	Gasket(IO side)
23	Wire clip	24	Conductive tape
25	Wire mount	26	Cable M/B to button B
27	Cable LVDS	28	Cable inverter
29	Stand module	30	

Parts

ACCESSORY	REMOTE CONTROLLER - PAL EU	REMOTE CONTROL EURT55D014 EU	25.M12V7.001
ACCESSORY	BATTERY LR03G/2SK	"BATTERY LR03GW/2SK (ALKALINE,1.5V)"	23.M09V7.011
ACCESSORY	BATTERY LR03	"BATTERY LR03(SN) (ALKALINE,1.5V)"	23.M09V7.012
	IO/TURNER BOARD - PAL EU	HH6 IO/B ASSY(EU)	55.M12V7.004
	IR BOARD	HH6 IR/B ASSY(FOR HH2)	55.M12V7.002
	KEYPAD BOARD	HH6 KEYPAD&AV3/B ASSY(FOR HH2)	55.M12V7.001
	POWER BOARD	"PWR 235W,DPS-235CP A(90~264VAC)"	55.M13V7.001
	MAINBOARD - PAL EU FOR AU	HH2 M/B ASSY(EU)(FOR HH7E) AU	55.M13V7.002
	CABLE - MB TO POWER/B	CABLE ASSY HH7 MB-POW LG(10P/14P 1A)	50.M13V7.001

ACCESSORY	REMOTE CONTROLLER - PAL EU	REMOTE CONTROL EURT55D014 EU	25.M12V7.001
	CABLE - MB TO IR TO BUTTON/B	"CABLE ASSY HH7 MB/IR/ BTN(10/7/4,REV1A)"	50.M13V7.002
	CABLE - MB TO BUTTON/B	"CABLE ASSY HH7 MB- BUTTON (10/4P,REV1A)"	50.M13V7.003
	CABLE - AUDIO TO POWER/B	"CABLE ASSY HX7 AUDIO-PW (8P/7P,1A)"	50.M13V7.004
	CABLE - SPEAKER CABLE SET	"CABLE ASSY HH7 MB- SPEAKER (4/2,3P,REV1A)"	50.M13V7.005
	LVDS CABLE - AU PANEL	CABLE ASSY HH7 LVDS AUO(20P/30P REV1A)	50.M13V7.006
	INVERTER CABLE - AU PANEL	CABLE ASSY HH7 INV AUO(14P/10P/4P REV1A)	50.M13V7.007
CABEL	GROUND CABLE	"CABLE ASSY HH2 GND(1P/ 1P,1A)"	50.M12V7.007
CABEL	CABLE - SCART TO SCART	"CABLE ASSY SCART-SCART VA1(20P/20P,R3A)"	50.M03V7.019
CABLE	POWER CODE ITALY 3P 1.8M	POWER CORD SP-028+IS- 14H05VV 3P1.8M ITLF	27.M03V7.001
CABEL	POWER CORD EU 3 PIN	POWER CORD SP-023+IS- 14H05VV-F3P 1.8M EU	27.M03V7.002
CABEL	POWER CORD SWISS 3 PIN	POWER CORD(SWISS) 3P 1.8M(BLACK)	27.M11V7.001
CABLE	POWER CORD UK 3 PIN	POWER CORD SP-60+IS- 14H05VV 3P 1.8M UKLF	27.M03V7.003

ACCESSORY	REMOTE CONTROLLER - PAL EU	REMOTE CONTROL EURT55D014 EU	25.M12V7.001
	BACK COVER ASSY	"REAR COVER HH7(EAHH7002,REV3A)"	60.M13V7.001
CASE/COVER/ BRACKET ASSEMBLY	LCD BEZEL ASSY	HH7 LCD-BEZEL ASSY(ACER)	60.M13V7.002
CASE/COVER/ BRACKET ASSEMBLY	FRONT DOOR	"FUN KEY DOOR HH7(EBHH7002,REV3A),SILVER"	42.M13V7.001
	LCD SUPPORT BRACKET - R	"LCD SUPPORT BKT-R HH7(FBHH7001,REV3A)"	33.M13V7.001
	LCD SUPPORT BRACKET - L	"LCD SUPPORT BKT-L HH7(FBHH7002,REV3A)"	33.M13V7.002
	LCD BRACKET - R=L	"SIDE BRACKET-R/L-AUO HH7(FBHH7007,REV3A)"	33.M13V7.003
	LCD BRACKET - DOWN=UPPER	"SIDE BRACKET-D/N HH7(FBHH7004,REV3B)"	33.M13V7.004
	STAND ASSY	HH7 STAND ASSY	60.M13V7.003

ACCESSORY	REMOTE CONTROLLER - PAL EU	REMOTE CONTROL EURT55D014 EU	25.M12V7.001
	MAIN PCB SHIELDING	"MAIN PCB TRAY HH7(FAHH7003,REV3A)"	33.M13V7.005
	WALL MOUNT SHIELD - EU	"WALL MOUNT SHIELD HH7- EU(FAHH7001,REV3A)"	33.M13V7.006
CASE/COVER/ BRACKET ASSEMBLY	POWER-IR-LED COVER	HH6 POWER-IR-LED ASSY	42.M11V7.002
CASE/COVER/ BRACKET ASSEMBLY	FUNCTION KEY	"FUNCTION KEY VWE6(EBVWE016,REV3A)"	42.M12V7.003
LCD	LCD TFT 37 IN. AU T370XW01 V.1	LCD(TFT) 37.02" T370XW01 V.1(XGA-WIDE)	56.M13V7.001
MISCELLANEOUS	WIRE SADDLE MWS-6	"WIRE SADDLE MWS-6 HD1(EBHD1010,REV3A)"	47.M13V7.001
MISCELLANEOUS	WIRE SADDLE MWS-7	"WIRE SADDLE MWS-7 VV3(EBVV3010,REV3A)"	47.M13V7.002
MISCELLANEOUS	WIRE CLIP	"WIRE CLIP CH- 10(EBVT2001,REV3A)"	47.M12V7.004
MISCELLANEOUS	WIRE MOUNT	"WIRE MOUNT VWE7(EBVWE010,REV3B)"	47.M08V7.012
MISCELLANEOUS	GASKET - IO SIDE	"GASKET (IO SIDE)HX7E(GBHX7001,REV3A)"	47.M13V7.003
MISCELLANEOUS	GASKET - LCD SUPPORT	"GASKET (LCD SUPPORT)HX7E(GBHX7002,3 A)"	47.M13V7.004
MISCELLANEOUS	CONDUCTIVE TAPE (INV.)	"CONDUCTIVE TAPE (INV.) HX7E(JXHX7001,3A)"	47.M13V7.005
MISCELLANEOUS	CONDUCTIVE TAPE (TOP)	"CONDUCTIVE TAPE (TOP)HX7E(JXHX7002,3A)"	47.M13V7.006
	SPEAKER R=L	"SPEAKER MESH HH7(SRF000001650,REV1A)"	23.M13V7.001
LABEL	POWER LABEL	"LABEL POWER HH7(HCHH7001,REV3A)"	40.M13V7.001
LABEL	I/O TUNER LABEL - EU	"LABEL HH7 TUNER EU(HCHH7003,REV3A)"	40.M13V7.002
LABEL	RATING LABEL	"RATING LABEL HH7(HCHH7007,3A)AT3704 MIC"	40.M13V7.003

ACCESSORY	REMOTE CONTROLLER - PAL EU	REMOTE CONTROL EURT55D014 EU	25.M12V7.001
SCREW	"SCREW M4.0*6-I(NI,NYLOK)"	"SCREW M4.0*6-I(NI,NYLOK)"	86.M13V7.001
SCREW	SCREW M4*10-P(BNI)SPRING AND PLANE WASHE	SCREW M4*10-P(BNI)SPRING AND PLANE WASHE	86.M13V7.002
SCREW	"SCREW M4.0*6-I(NI,NYLOK)"	"SCREW M4.0*6-I(NI,NYLOK)"	86.M13V7.003
SCREW	SCREW T3*12-B(NI)EP	SCREW T3*12-B(NI)EP	86.M12V7.006
SCREW	SCREW M3*4-I (NI)	SCREW M3*4-I (NI)	86.M04V7.004
SCREW	SCREW M3*5-P-NI+	SCREW M3*5-P-NI+	86.M01V7.001
SCREW	IO NUT	"IO NUT VT1(MBVT1002,REV3A)"	86.M01V7.010
SCREW	SCREW T3*8 P (NI)	SCREW T3*8 P (NI)	86.M01V7.007
SCREW	SCREW T4*10-P (BNI)	SCREW T4*10-P (BNI)	86.M04V7.002
SCREW	SCREW M3*4-I (NI)	SCREW M3*4-I (NI)	86.M04V7.004
SCREW	SCREW M4*6 P (NI)	SCREW M4*6 P (NI)	86.M01V7.002
SCREW	SCREW T3*8 P (NI)	SCREW T3*8 P (NI)	86.M01V7.007
PACKING	CARTON - BASE	"CARTON(BASE)HH7(HFHH70 04,3A)"	47.M13V7.007
PACKING	CARTON - COVER	"CARTON(COVER)HH7(HFHH7 005,3A)AT3704"	47.M13V7.008
PACKING	EPS FOAM - BASE L	"EPS FOAM(BASE- L)HH7(HBHH7007,3A)"	47.M13V7.009
PACKING	EPS FOAM - BASE R	"EPS FOAM(BASE- R)HH7(HBHH7008,3A)"	47.M13V7.010
PACKING	EPS FOAM - TOP L	"EPS FOAM(TOP- L)HH7(HBHH7005,3A)"	47.M13V7.011
PACKING	EPS FOAM - TOP R	"EPS FOAM(TOP- R)HH7(HBHH7006,3A)"	47.M13V7.012
PACKING	EPE BAG	"EPE BAG HH7(HAHH7003,3A)1230*800"	47.M13V7.013
PACKING	EPE SHEET - AT3205	"EPE SHEET VWE6(HAVW6004,3A)800*500"	47.M09V7.004
PACKING	CARTON CLASP	"CARTON CLASP VW7(JXVW7001,3A)"	47.M08V7.020