

# System Specifications

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## Features

### LCD Panel

- Max. resolution: 1366 x 768
- 16 CCFTs backlight system
- Display area: 26 inches diagonal
- Display color: 16.7 M colors
- Input signal: 1-ch LVDS
- Contrast ratio: 800:1 (typical)
- Brightness: 500 Cd/m<sup>2</sup> (typical)
- Respond time: AU 16 ms; QDI 21 ms
- Viewing angle: 85° (L) / 85° (R), 85° (U) / 85° (D)

### I/O functions

- RCA jack (YUV and CVBS) for YPbPr, YCbCr, video and audio
- 15-pin D-Sub for VGA
- 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: 1.8A
- Power consumption: 180W
- Stand-by: 5W max.

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## **Remote Controller**

- Multi-function remote controller

## **Speaker**

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

## **Environmental Requirement**

- Operating temperature: 0 °C to 35 °C
- Operating humidity: 10% to 90%
- 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**

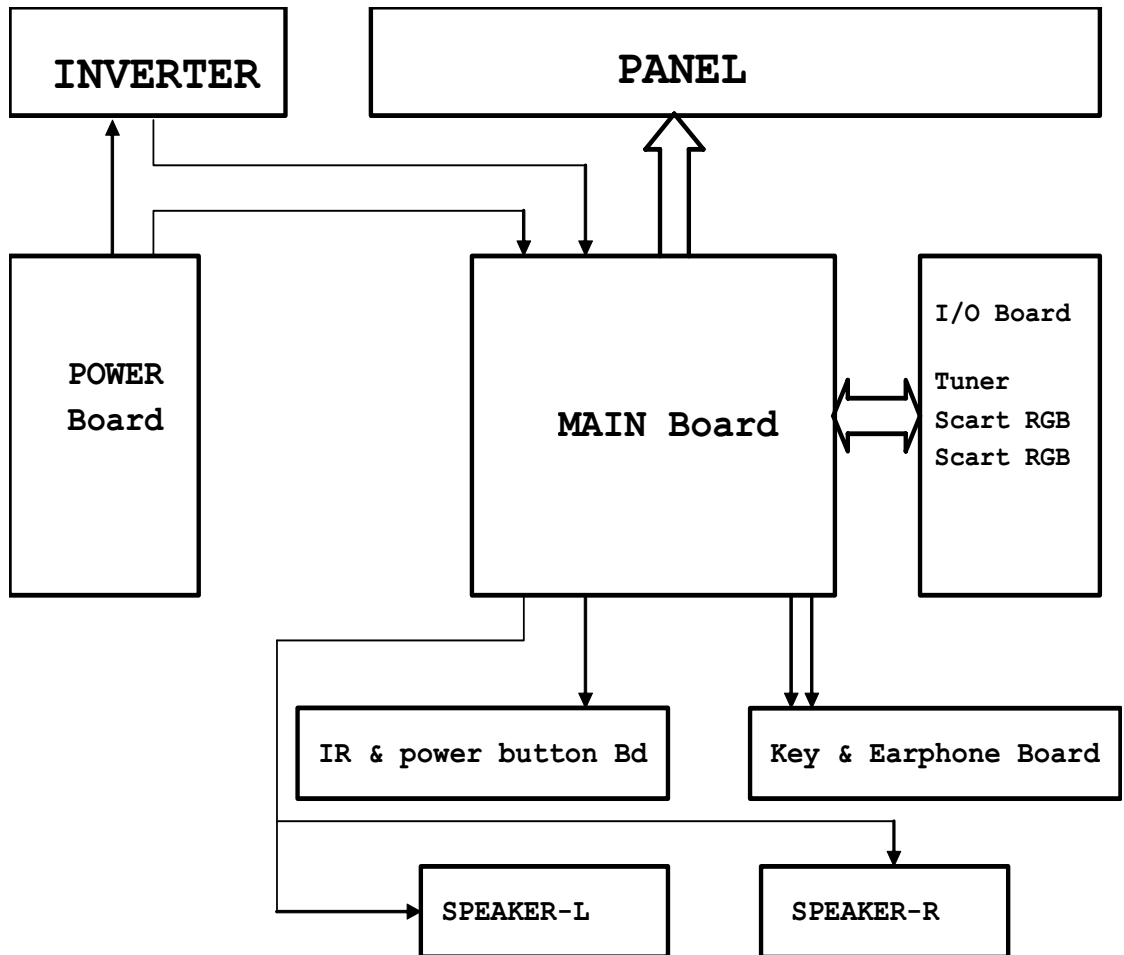
- On screen display adjustment function
- ISP (In System Programming) function available for revising driver easily

# Product Specification

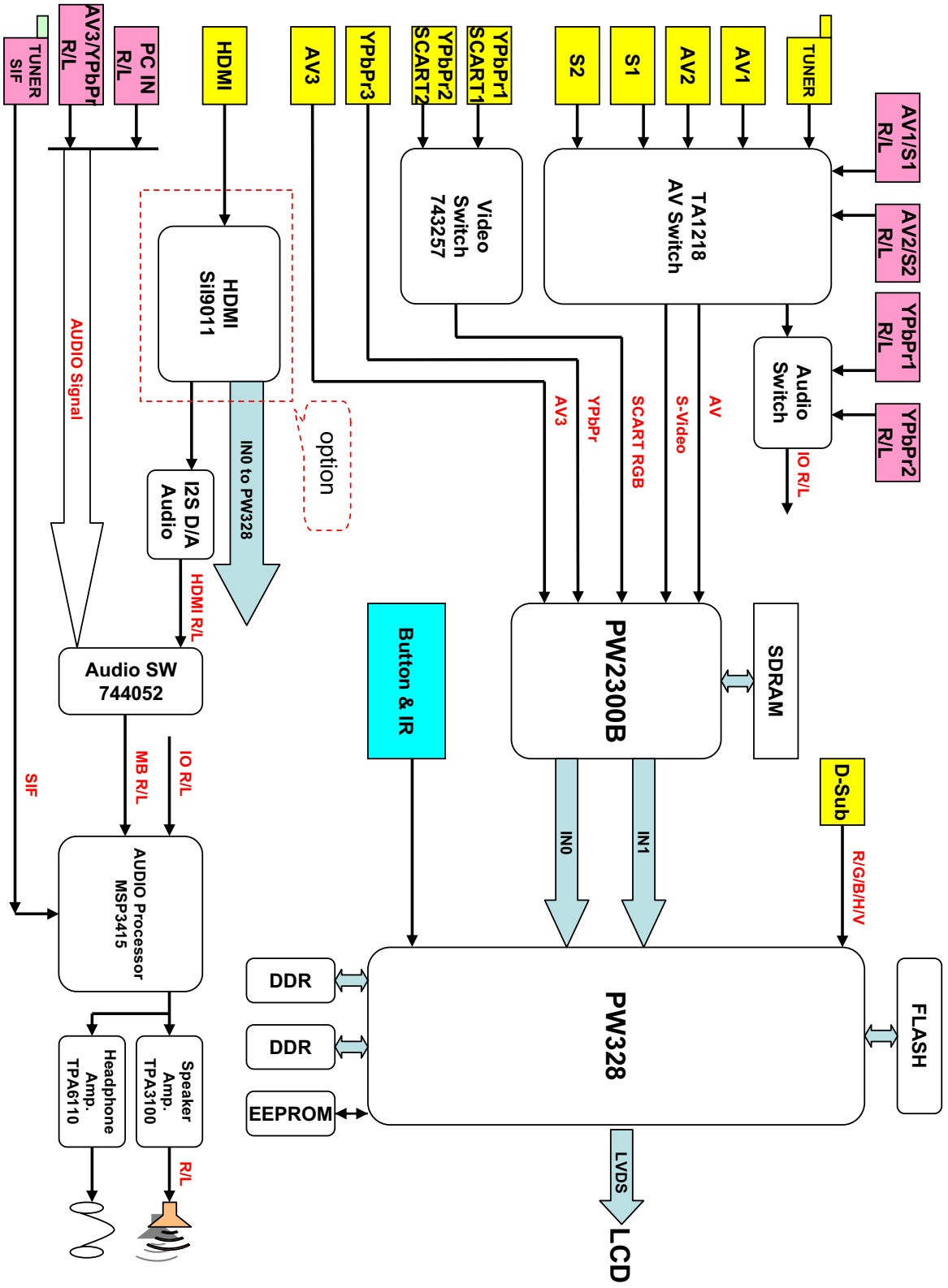
Model	AT2602
<b>Panel spec.</b>	
Resolution (pixels)	1366 x 768
Brightness (tpe.)	500 nits
Contrast Ratio (tpe.)	600:1
Display color	16.7M
Viewing angle (tpe.)	H: 170°; V: 170°
Response (tpe.)	16ms (gray to gray)
<b>Power supply</b>	
Input	90V ~ 264V AC (47 ~ 63Hz)
Max. power consumption	150W
Power saving	5W
<b>Mechanical</b>	
Dimensions (W x H x D mm)	854 x 527 x 207
Weight (Kg/lbs)	15.5/34.2
Gross Weight (Kg/lbs)	16.6/36.4
Wall Mounting (mm)	200 x 100
<b>Analog TV system</b>	
TV color system	PAL, SECAM
Sound system	B/G/D/K/L (multi-European)
Stereo system	NICAM/A2
TV Tuner system	PLL, 45.25MHz ~ 862.25MHz
Subtitles	Teletext 1.5
Analog TV-tuner quantity	One
<b>Terminal</b>	
Analog Tuner In	Yes
SCART1	CVBS (In/Out), RGB (In), AudioR/L
SCART2	CVBS (In/Out), RGB (In), AudioR/L
AV3 in	YPbPr, YCbCr, CVBS, AudioR/L
PC D-sub in	Yes
PC audio-in	Yes
<b>Audio system</b>	
Speaker	5W + 5W

# Block Diagram

## System Block & Wiring Diagram



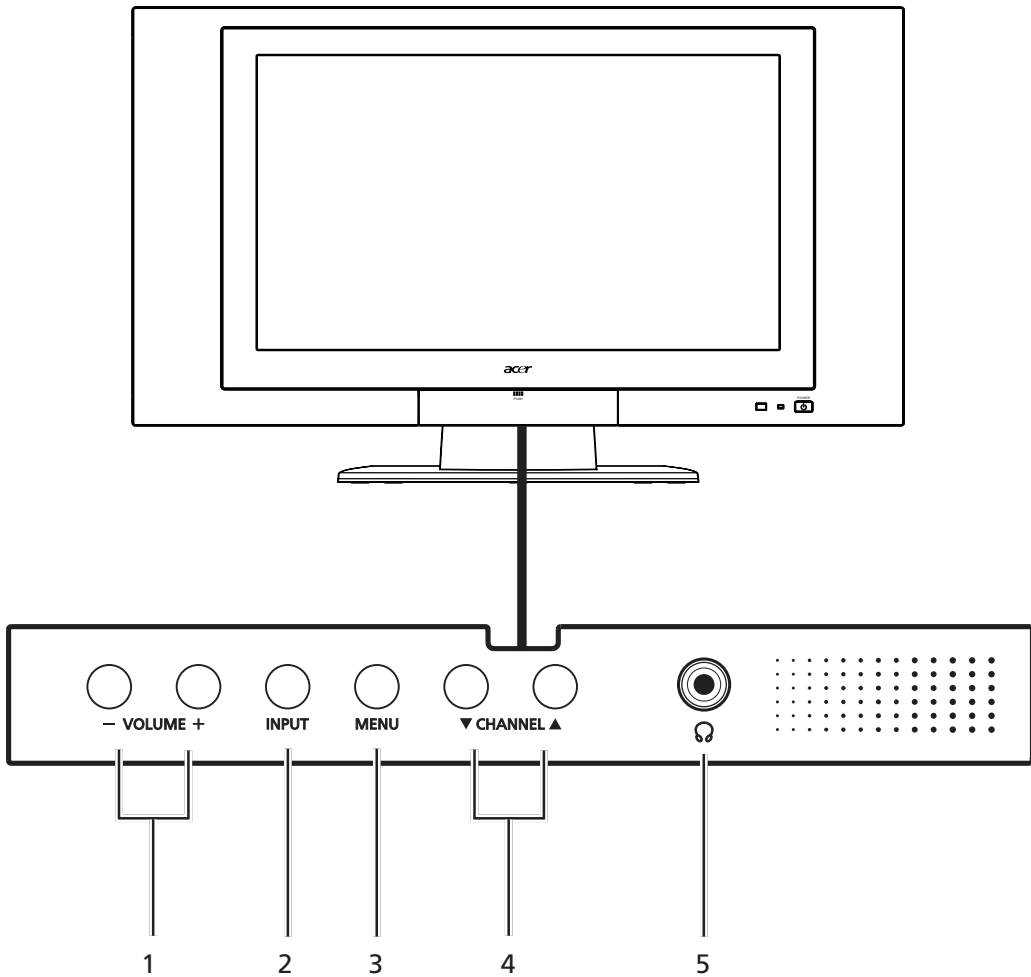
# Block Diagram



# LCD TV Overview

## Front Panel View

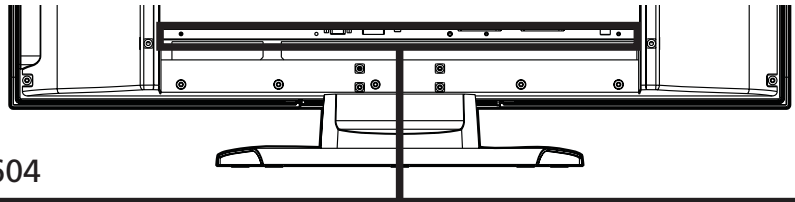
No.	Description
1	Volume up/down
2	Input key
3	Menu key
4	Channel up/down
5	Headphone jack



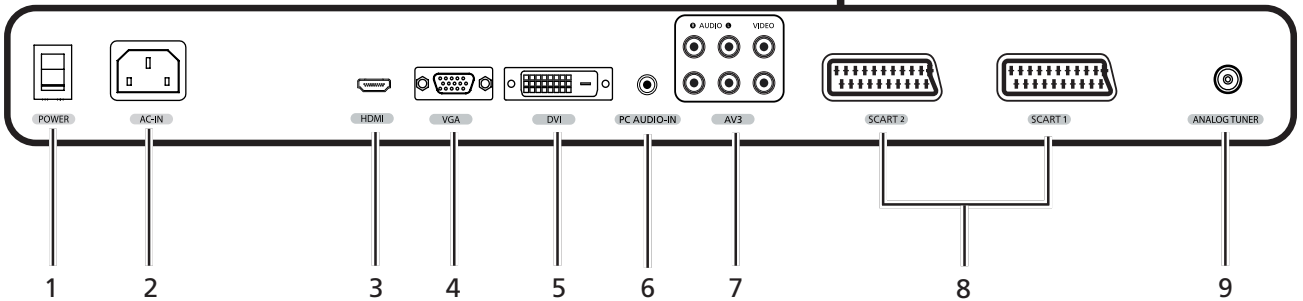
1	Volume up	When the OSD is on, functions the same as the Right arrow.
	Volume down	When the OSD is on, functions the same as the Left arrow.
2	Input key	When the OSD is on, press this button to confirm selection.
3	Menu key	Turns the OSD menu On and Off
4	Channel up	When the OSD is on, functions the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

## Bottom Panel View

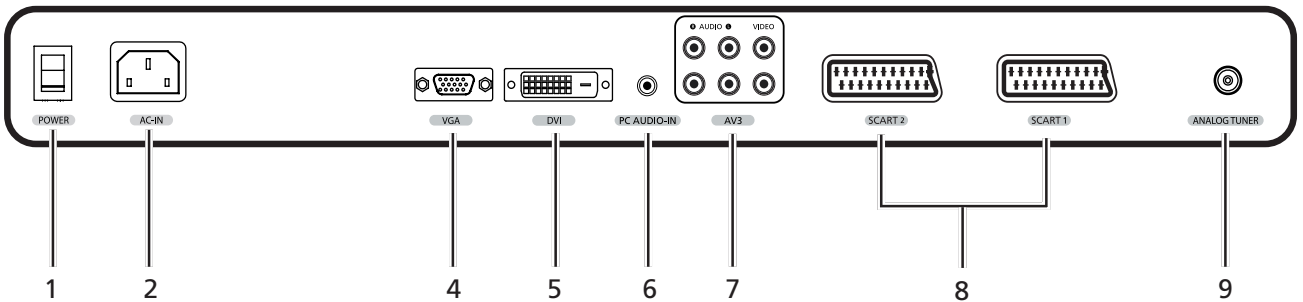
No.	Description	Note
1	Power switch	For AV3, Composite and component inputs share the same audio port. * HDMI only for AT2604/AT2704/AT3204/AT3704 ** DVI only for AT2604/AT2703/AT2704/AT3204/AT3704
2	AC-in	
3	*HDMI-in	
4	VGA-in	
5	**DVI-in	
6	Audio-in	
7	AV-in	
8	SCART x 2	
9	Analog antenna-in	



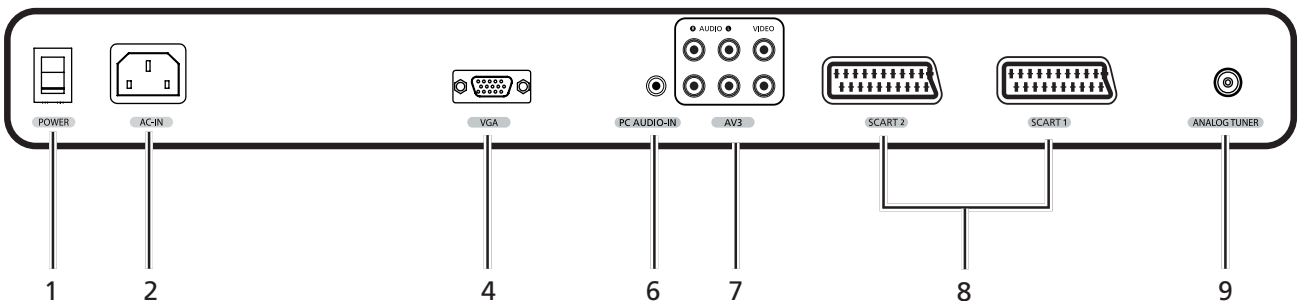
### AT3704/AT3204/AT2704/AT2604



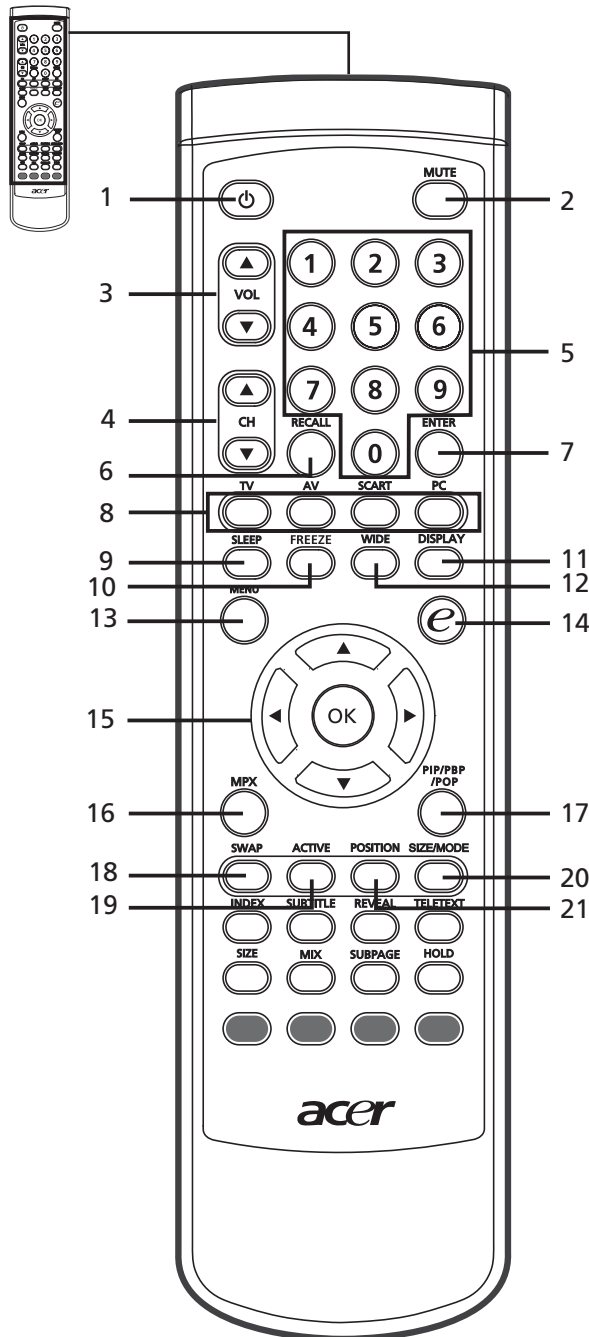
### AT2703



### AT3202/AT2602

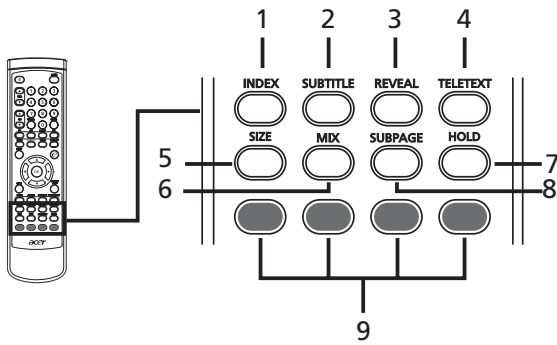


# Remote Control



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 confirm channel number selection.
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.Directionals 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.





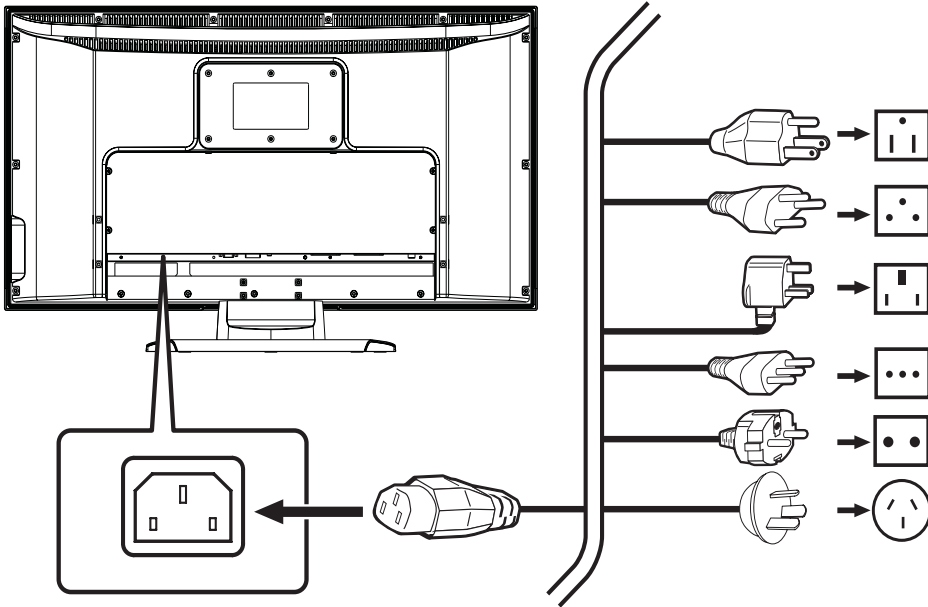
1. INDEX: Press to go to the index page.
2. SUBTITLE: Press to view subtitles on the screen.
3. REVEAL: Press to reveal hidden teletext information.
4. TELETEXT: Press to switch from TV/AV to Teletext mode.
5. SIZE: Press once to zoom teletext page to 2X. Press again to resume.
6. MIX: Press to overlay 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.

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# Basic Connection

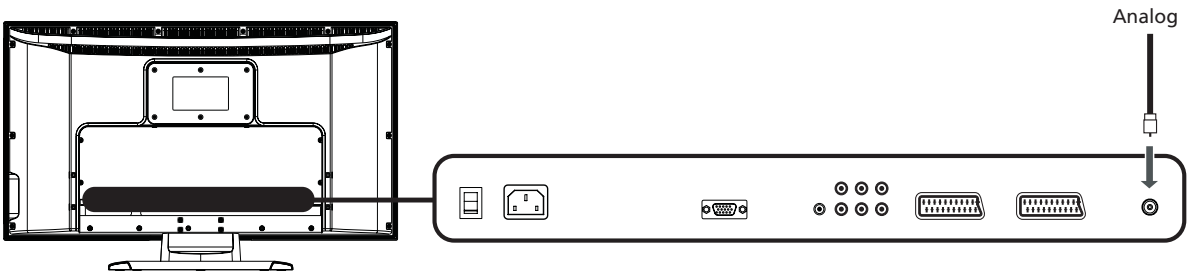
## Connecting the Power Cord

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.



## Connecting an Antenna Cable

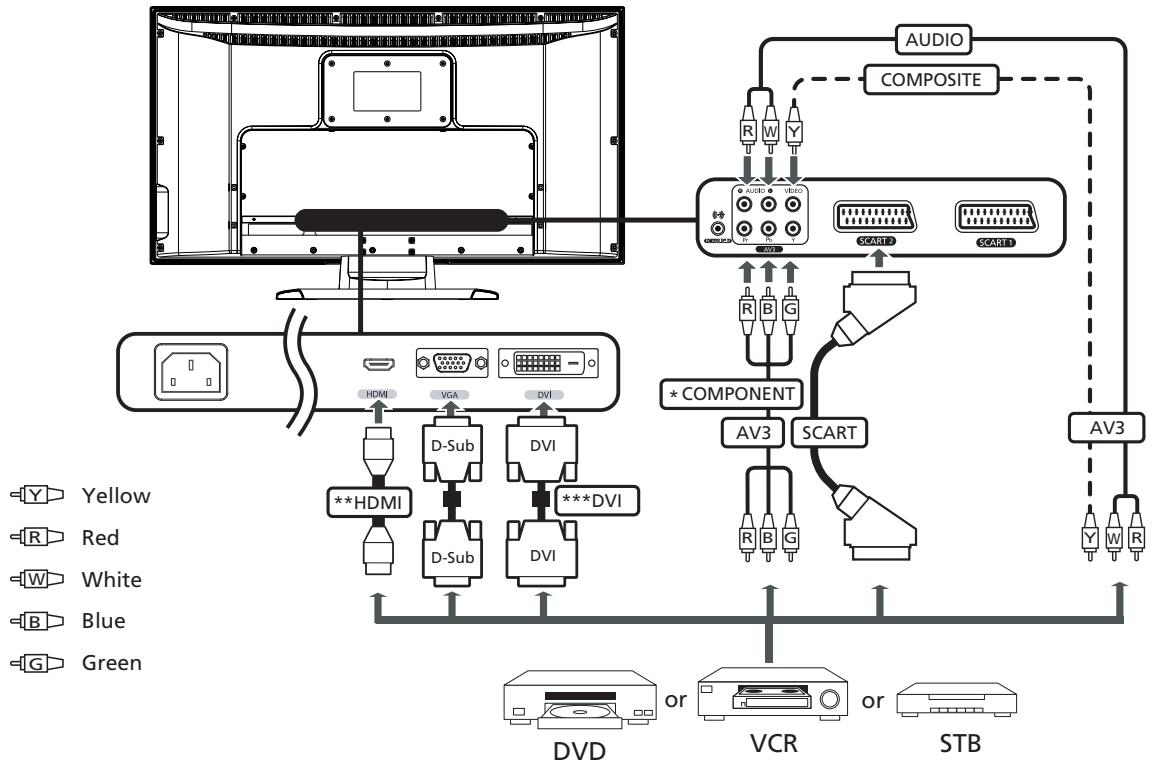
Connect the antenna cable to the appropriate antenna terminal on the back of the TV set as shown below.



## 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.

### Source-IN

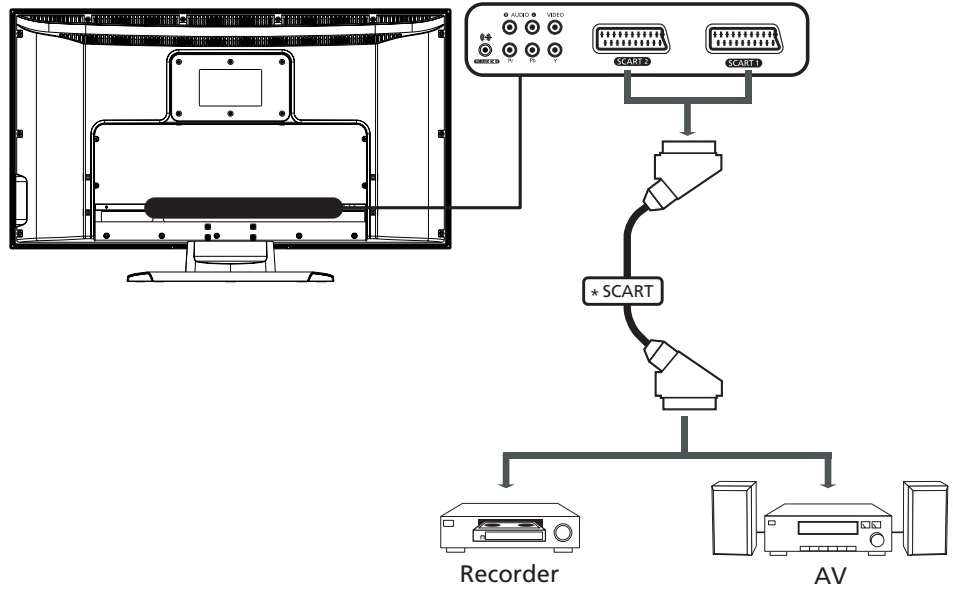


**NOTE:** Acer recommends the priority for connection: 1. HDMI 2. DVI 3. Component 2. SCART 3. Composite

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

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

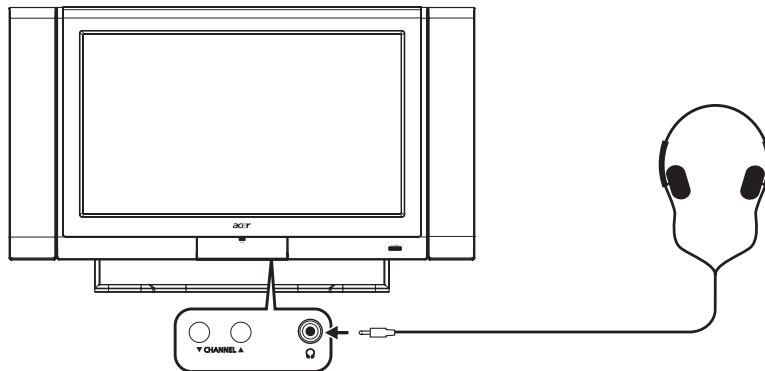
## TV-OUT



**NOTE:** SCART-out only works with analog broadcasts.

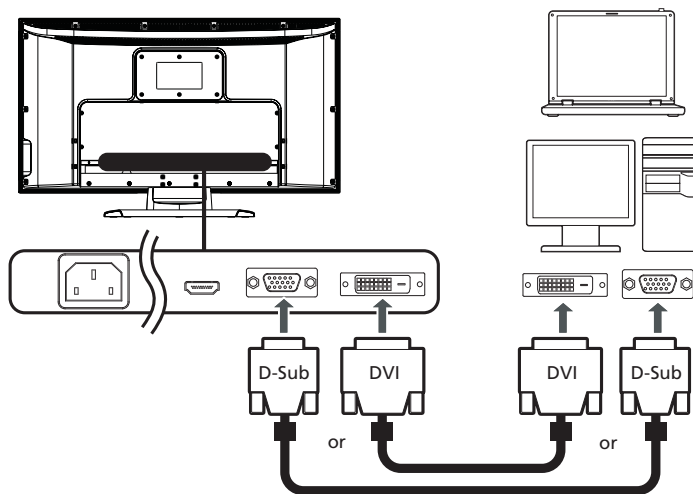
## Connecting a Camera / Camcorder / Video / Headphones

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

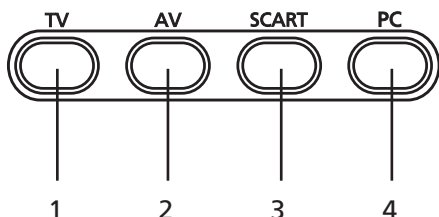
To display PC output on the LCD TV, connect the desktop or notebook computer to the TV as shown below.



**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. SCART key: Toggle SCART1 and SCART2 between input sources.
4. PC key: Toggle VGA and DVI between input sources.

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

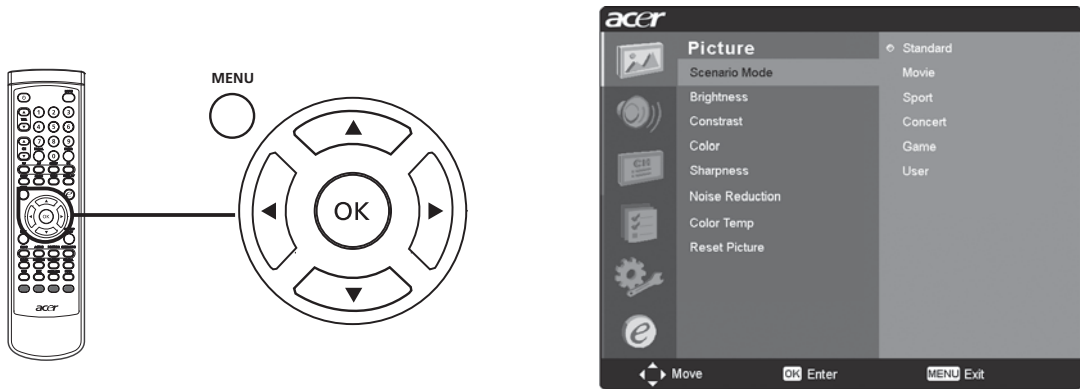
\*\* DVI only for AT2604/AT2703/AT2704/AT3204/AT3704




# 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

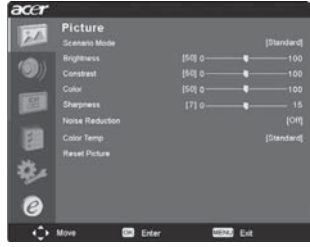






There are six main OSD menus. These are Picture, Audio, Channel management, Options, Settings and Empowering. Use the following method to navigate these menus.		
1		Press the <b>MENU</b> button on the remote control or the <b>MENU</b> button on the control panel.
2		Select your desired menu by using the up and down <b>directional keys</b> to switch between the six menus.
3		Use the <b>directional keys</b> 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 <b>Enter</b> 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.

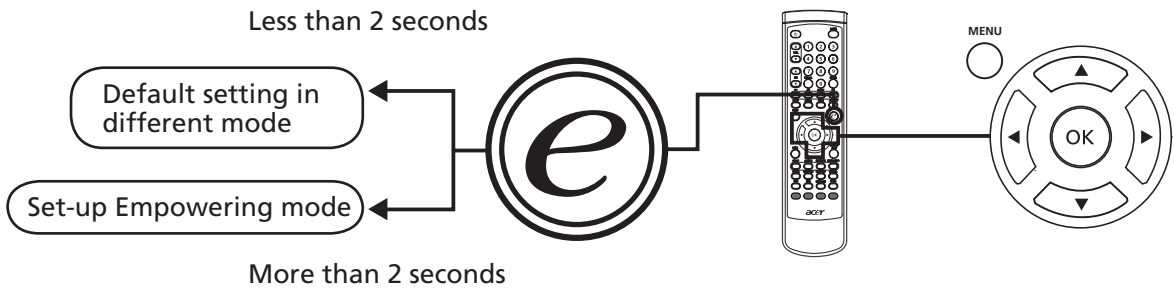
<p><b>Adjusting the picture quality</b></p> 	<ol style="list-style-type: none"> <li>1. Press the <b>MENU</b> key to bring up the OSD.</li> <li>2. Using the directional keys, select <b>Picture</b> from the OSD. Then navigate to the picture element you wish to adjust.</li> <li>3. Use the left or right keys to adjust the sliding scales.</li> <li>4. The <b>Picture</b> menu can be used to adjust the current Scenario mode, brightness, contrast, color, sharpness and other image-related qualities.</li> </ol>
<p><b>Adjusting the audio settings</b></p> 	<ol style="list-style-type: none"> <li>1. Press the <b>MENU</b> key to bring up the OSD.</li> <li>2. Using the directional keys, select <b>Audio</b> from the onscreen display. Then navigate to the feature you wish to adjust.</li> <li>3. Use the up or down keys to adjust the sliding scale. Press <b>OK</b> to save.</li> <li>4. The <b>Audio</b> menu can also be used to adjust the treble, balance, sound effects and other important sound-related settings.</li> </ol>
<p><b>Adjusting the channel management</b></p> 	<ol style="list-style-type: none"> <li>1. Press the <b>MENU</b> key to bring up the OSD.</li> <li>2. Using the directional keys, select <b>Channel management</b> from the OSD.</li> <li>3. Use the directional keys to navigate the menus.</li> <li>4. The <b>Channel management</b> menu can be used to adjust and set the TV ratings.</li> </ol>
<p><b>Adjusting other options</b></p> 	<ol style="list-style-type: none"> <li>1. Press the <b>MENU</b> key to bring up the OSD.</li> <li>2. Using the directional keys, select <b>Options</b> from the OSD.</li> <li>3. Use the directional keys to navigate the menus.</li> <li>4. The <b>Options</b> menu can be used to select the picture aspect-ratio mode and set the sleep timer.</li> </ol>
<p><b>Adjusting the settings</b></p> 	<ol style="list-style-type: none"> <li>1. Press the <b>MENU</b> key to bring up the OSD.</li> <li>2. Using the directional keys, select <b>Settings</b> from the OSD. Then navigate to the feature you wish to adjust.</li> <li>3. The <b>Settings</b> menu can be used to adjust the menu language, time zone, set the PIN, the TV censorship levels, and other important settings.</li> </ol>

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

## Defaulting setting in different Empowering mode

### Scenario mode in TV (default setting)



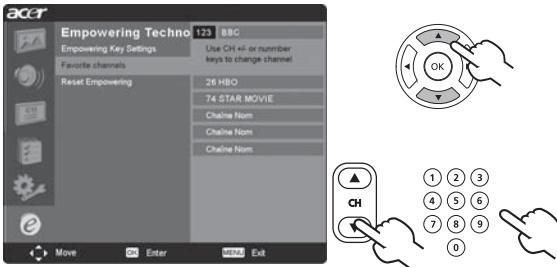

Scenario mode has five preset viewing modes designed to give you the best picture quality when watching a particular kind of program. There are five pre-defined audio and video settings for optional enjoyment of the following scenarios: Standard TV, Movie, Sport, Concert, Game, User.

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

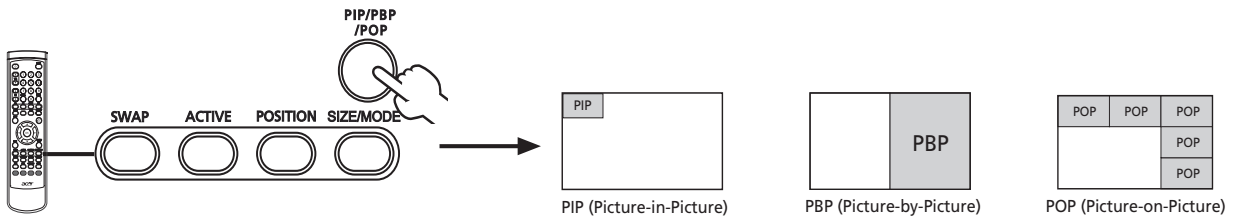
Favorite channel allows you to store five of your favorite TV channels and flick between them at the touch of a single button.

Storing favorite channels		
1	<p><b>MENU</b></p> 	Select your desired channel, then press the <b>MENU</b> key on the remote control.
2		Use the <b>directional keys</b> 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 <b>Empowering Key</b> for less than one second, the TV will toggle between the five stored TV channels sequentially according to your list of favorites.

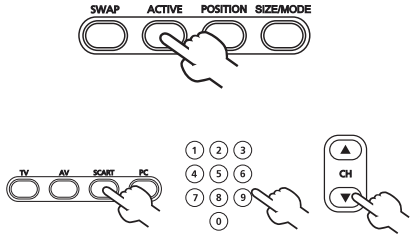
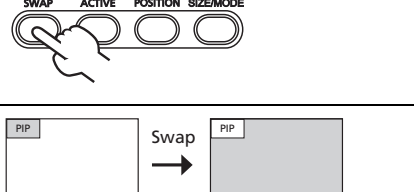
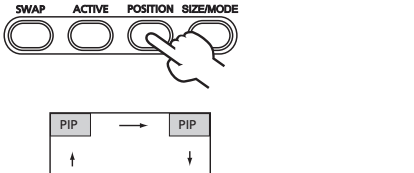
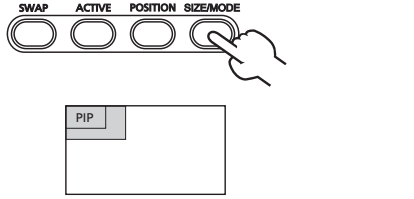
# Advanced Features

## 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.

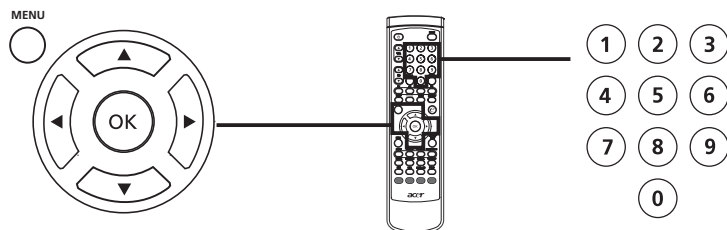
<p><b>PIP</b></p> 	<ol style="list-style-type: none"> <li>1. Press the <b>Activate</b> key to toggle between PIP screens.</li> <li>2. Press the <b>TV, AV, SCART</b> or <b>PC</b> keys, number keys or <b>CH</b> up or down to change the content of the active screen.</li> </ol>
	<ol style="list-style-type: none"> <li>3. Press <b>SWAP</b> key to change the content between the primary and the subscreen.</li> </ol>
	<ol style="list-style-type: none"> <li>4. Press the <b>POSITION</b> key to select the location of the subscreens, from the upper left→upper right→lower right→lower left, as shown in the image.</li> </ol>
	<ol style="list-style-type: none"> <li>5. Press the <b>SIZE / MODE</b> key to select the size of the subscreen, from 25%→37.5%→50%, as shown in the image.</li> </ol>

<p><b>PBP</b></p>		<ol style="list-style-type: none"> <li>1. Press the <b>ACTIVE</b> key to toggle between PBP screens.</li> <li>2. Press the <b>TV, AV, SCART</b> or <b>PC</b> keys, number keys or <b>CH</b> up or down to change the content of the active screen.</li> </ol>
		<ol style="list-style-type: none"> <li>3. Press the <b>SWAP</b> key to change the content between the primary and the PBP screen.</li> </ol>
<p><b>POP</b></p>		<ol style="list-style-type: none"> <li>1. Press the <b>ACTIVE</b> key to toggle between POP screens.</li> <li>2. Press the number keys or <b>CH</b> up or down to change the TV channel on the active screen.</li> </ol>
		<ol style="list-style-type: none"> <li>3. Press the <b>SIZE / MODE</b> key to access the 1 + 5 or 1 + 12 picture-on-picture mode as shown in the image.</li> </ol>




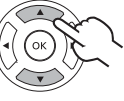



## Lock TV

### Locking TV content




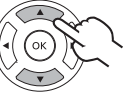



Lock TV is a handy feature that can block a single channel, multiple channels or all TV sources. Lock TV allows you to enter a password and effectively stop anyone without the password from watching TV.










Follow the procedures below to enable this feature.

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

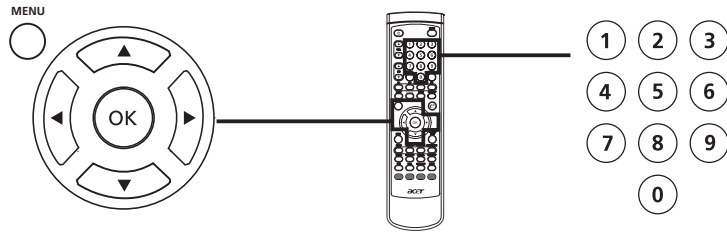
Locking a single channel		
1		Navigate to the channel you wish to manage.
2	<b>MENU</b> 	Press the <b>MENU</b> key on the remote control to bring up the OSD. 
3		Use the <b>directional keys</b> to navigate to the  Channel management menu. Then select <b>Lock this channel</b> .
4		Enter you PIN. Type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






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



## Re-scan for Channels

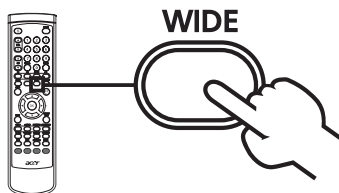
The first time you completed the setup wizard, all available channels were listed. If you need to re-scan for new channels, please follow the steps below:

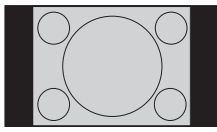
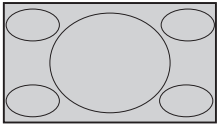
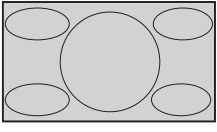
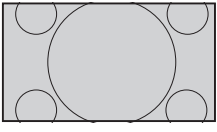


		Scanning for channels	Auto-scan
1	<p><b>MENU</b></p> 	Press the MENU key on the remote control to bring up the OSD.	
2		Use the <b>directional keys</b> to navigate and select  .	
3		Highlight <b>Auto Scan</b> . Then select Start and press <b>OK</b> to begin.	
4		Select <b>OK</b> and press <b>MENU</b>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

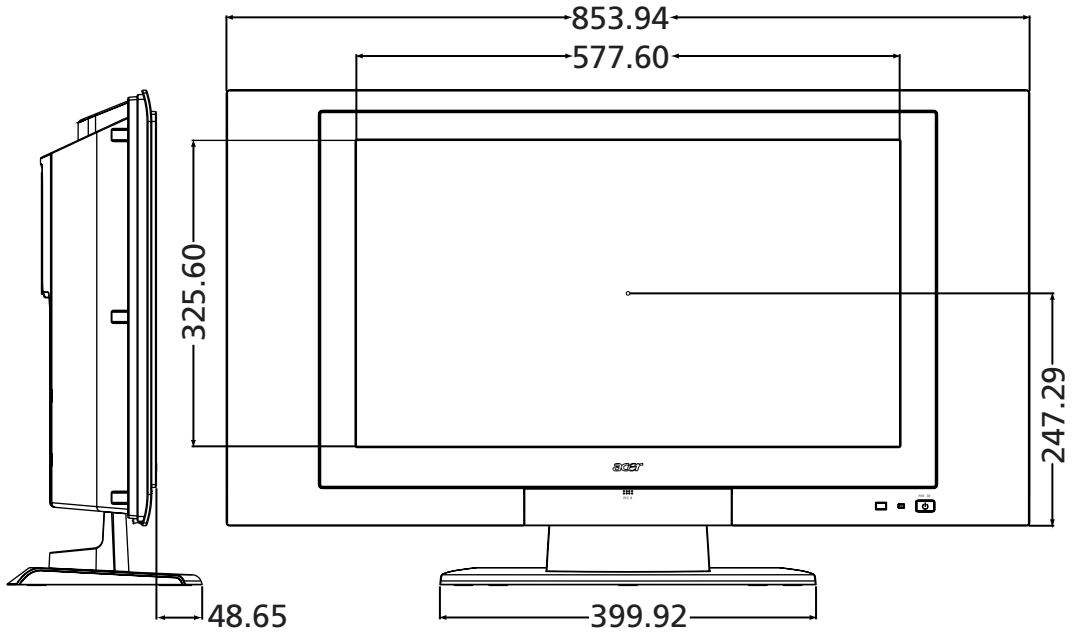
## Widescreen Display Mode

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



# Source Options

## PIP/PBP

Main \ Sub	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

Main \ Sub	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**

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This chapter contains step-by-step procedures on how to disassemble the LCD TV 2602 for maintenance and troubleshooting.

To disassemble the LCD TV 2602, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Small Philips 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.

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# Disassembly Procedure

## Removing the TV Stand

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



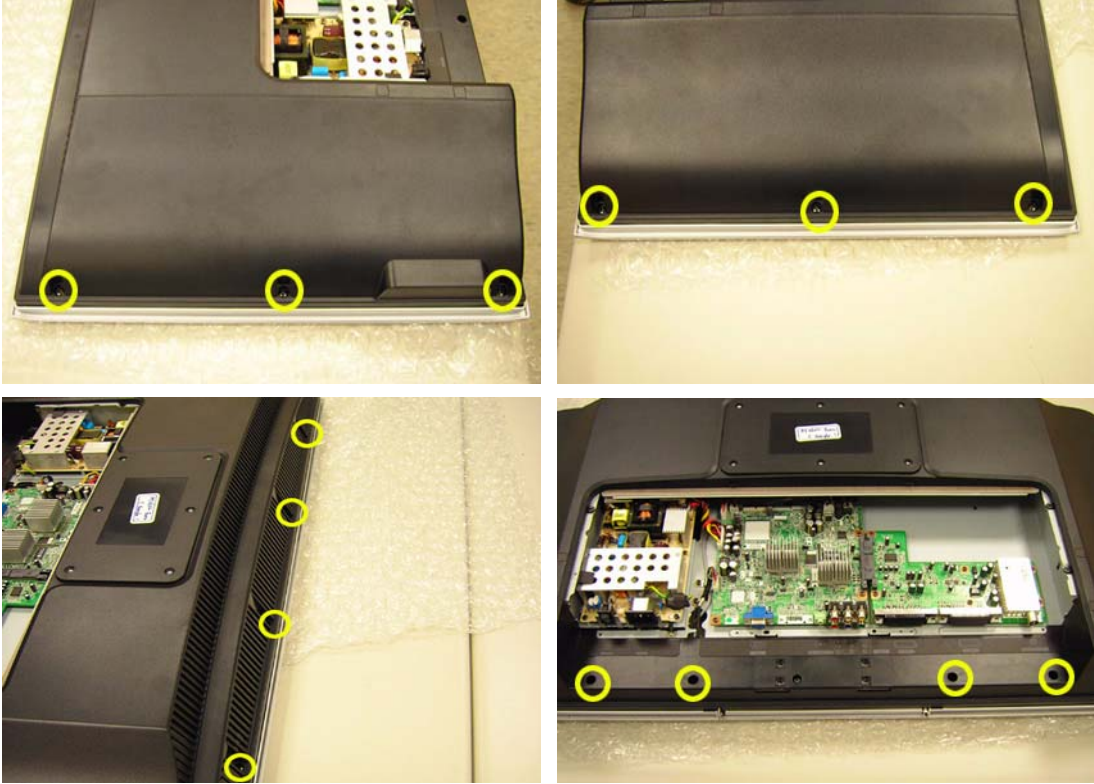
## Removing the I/O Cover

1. Release those screws marked in yellow for removing the I/O cover.
2. Slide the I/O cover shown as arrows then detach it.



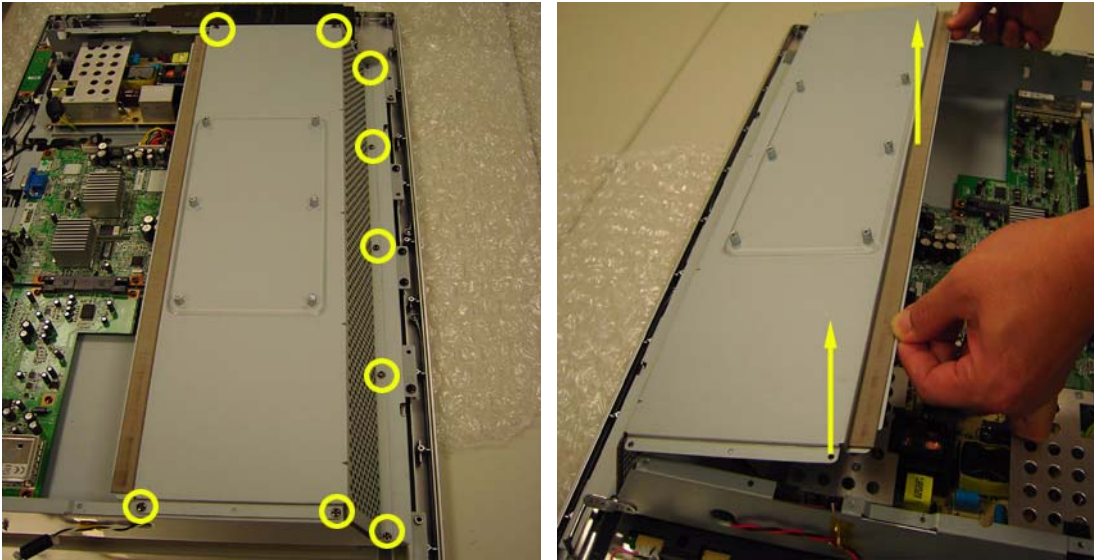
## Removing the Rear Cover

1. Release those screws as shown for removing the rear cover.
2. Then lift the rear cover.



## Removing the ESD Shield Top

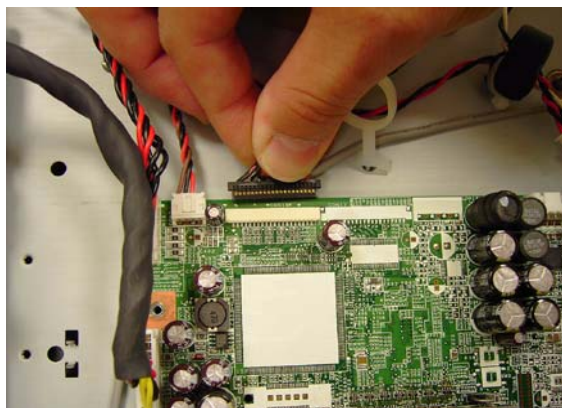
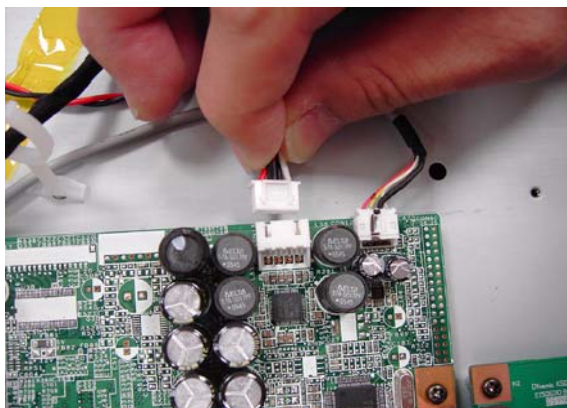
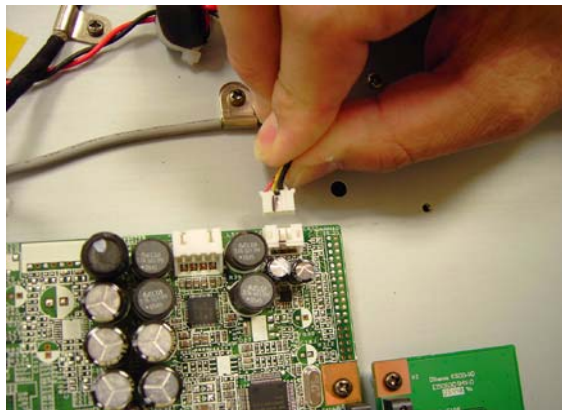
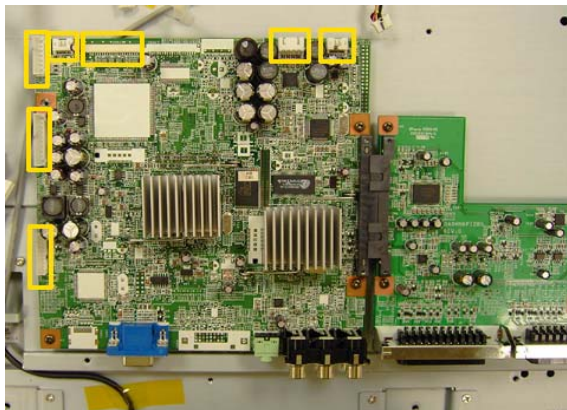
1. Release the nine screws securing the ESD shield top.
2. Then lift the ESD shield top as shown.



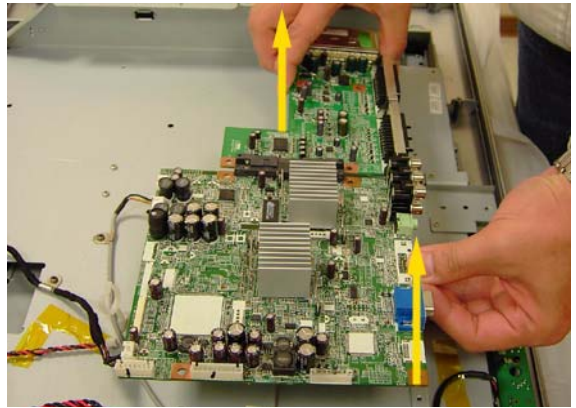
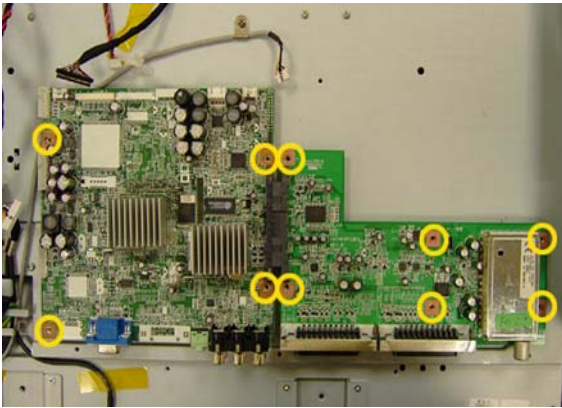
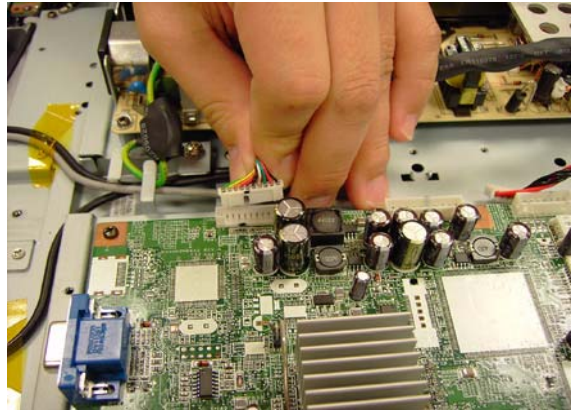
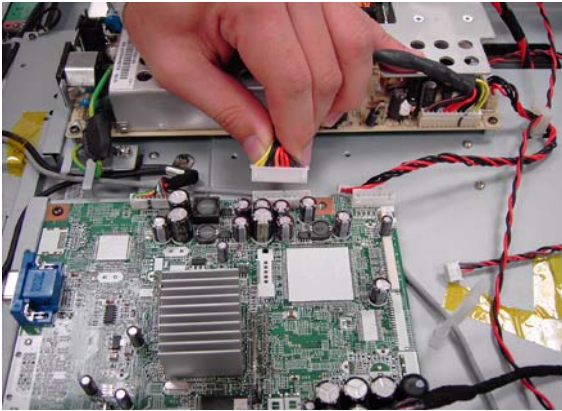
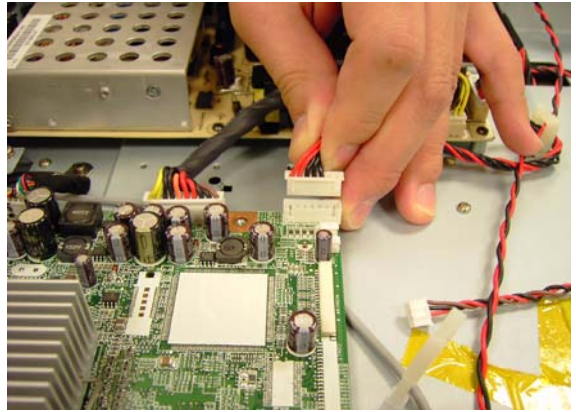
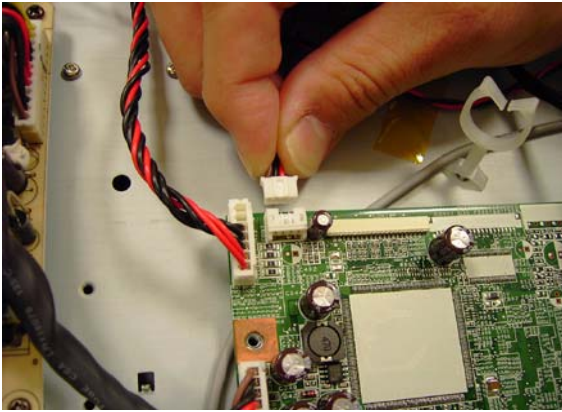


## Removing the Main Board and I/O Board

1. This is the upper view of the main board and the location of those connectors.
2. Disconnect the keypad to main board cable.
3. Disconnect the speakers to main board cable.
4. Disconnect the LVDS to main board cable.



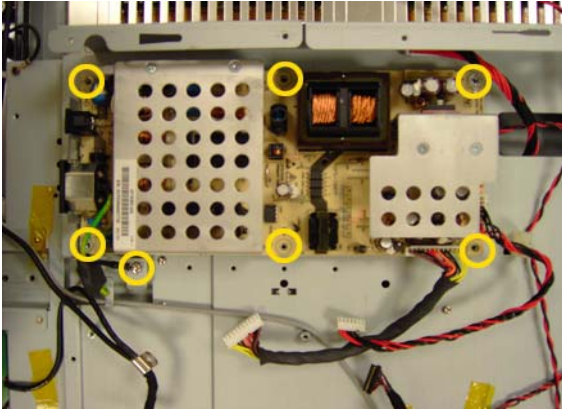
5. Disconnect the inverter board to main board cable.
6. Disconnect the power board to main board cable.
7. Disconnect the other power board to main board cable.
8. Disconnect the power switch to main board cable.
9. Release the ten screws fastening the main board and the I/O board.
10. Remove them together then separate them.



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## Removing the Power Supply Board

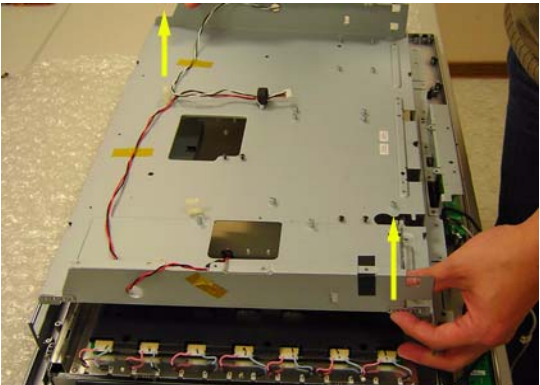
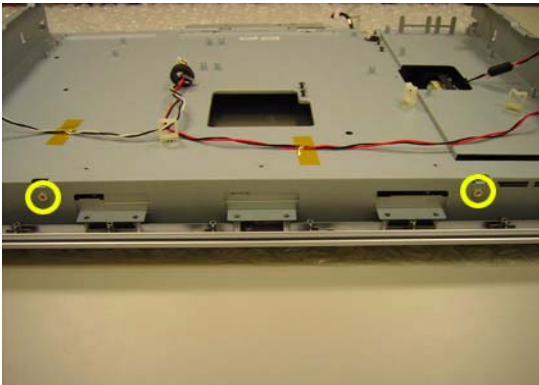
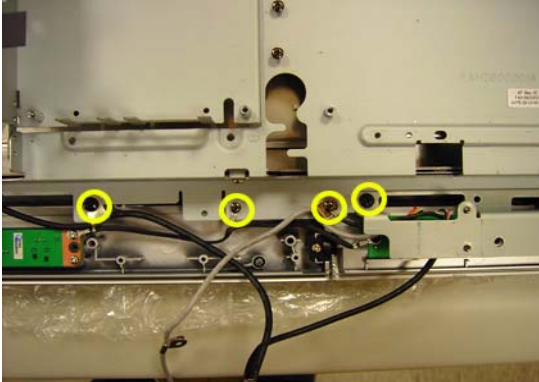
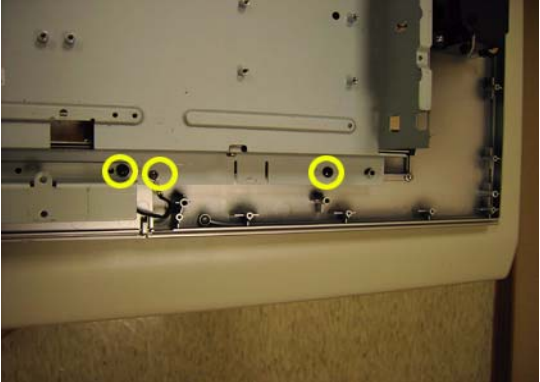
1. Release the seven screws fastening the power supply board and the cable then detach the power supply board.





# Removing the PCD Holder

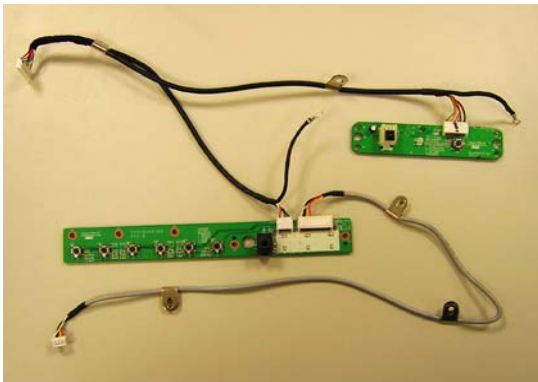
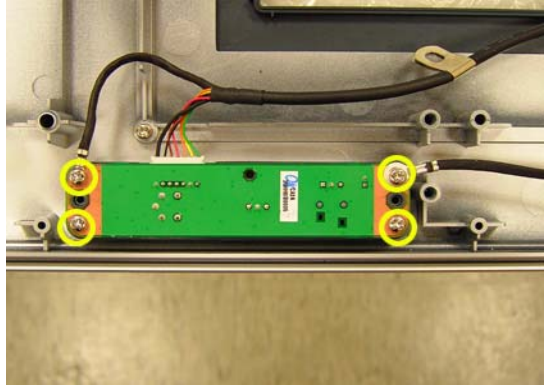
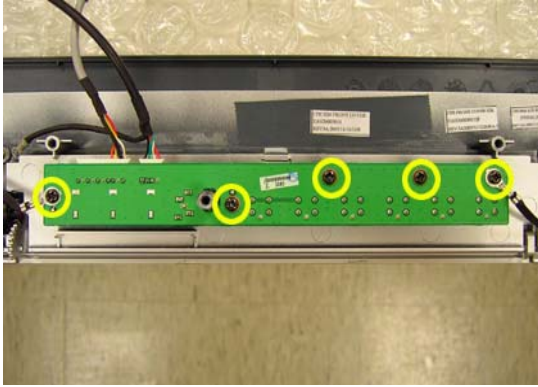
- 1. Release those screws marked in yellow.
- 2. Then lift the PCD holder as shown.



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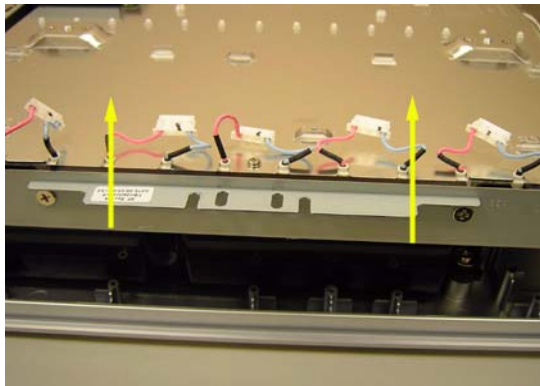
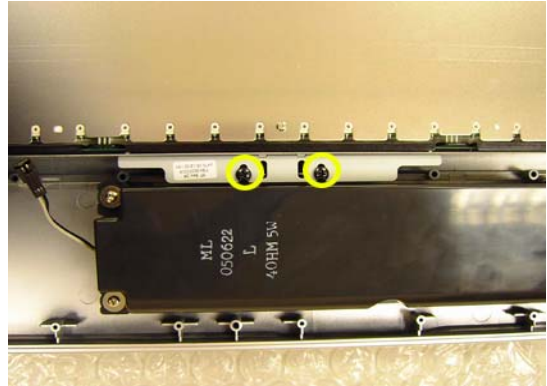
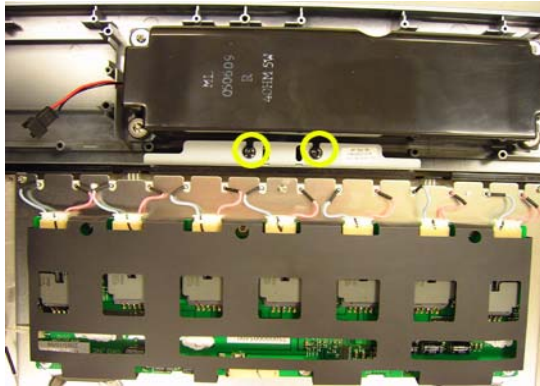
## Removing the Keypad Board and the Power Button Board

1. Release the five screws fastening the keypad board then detach it.
2. Release the four screws fastening the power button board then detach it.
3. They are the keypad board and the power button board with their corresponding cables.



## Removing the LCD

1. Release the four screws on the LCD brackets.
2. Then lift the LCD.



## Removing the Speakers

1. Release the four screws securing the speaker.
2. Repeat the anterior two steps to remove the other speaker.



## Troubleshooting

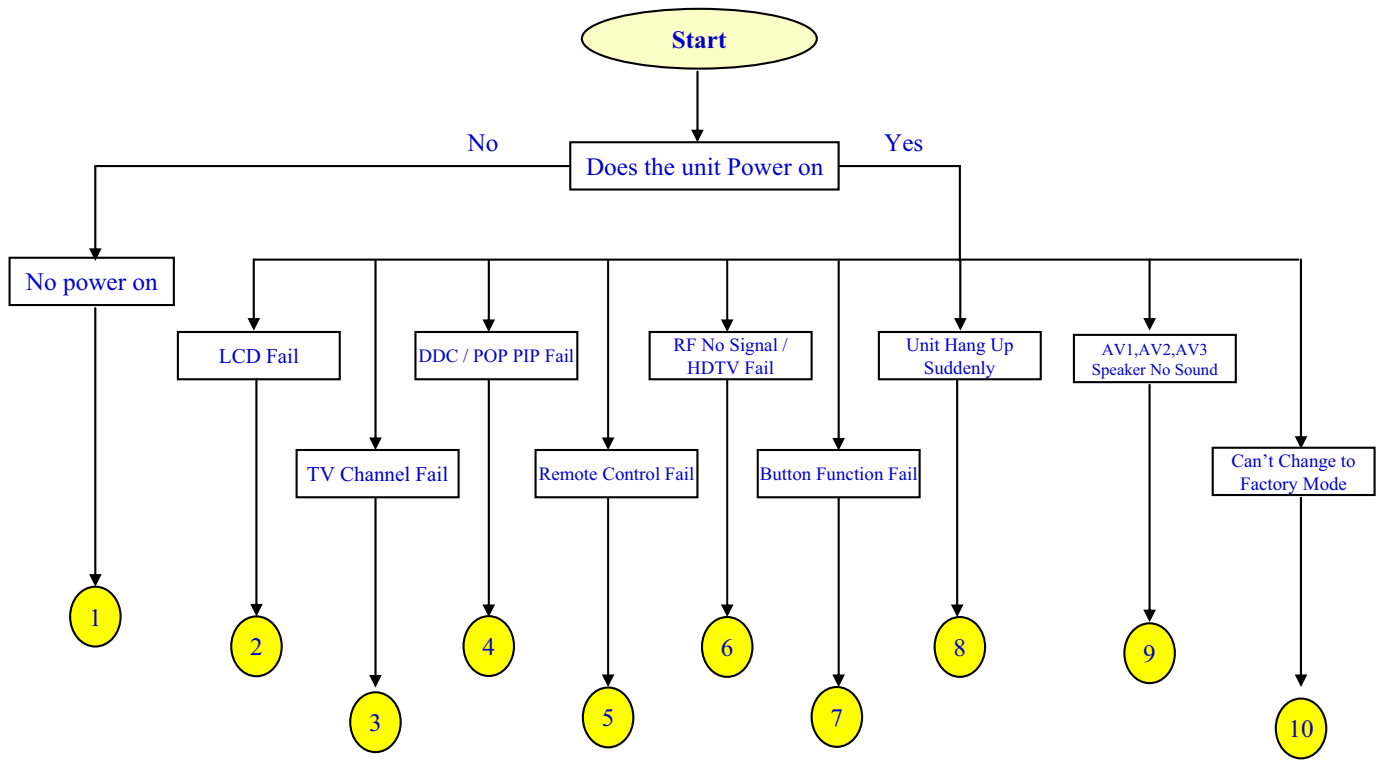
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Please use the following procedures as a guide for Acer LCD TV AT2602 problems.

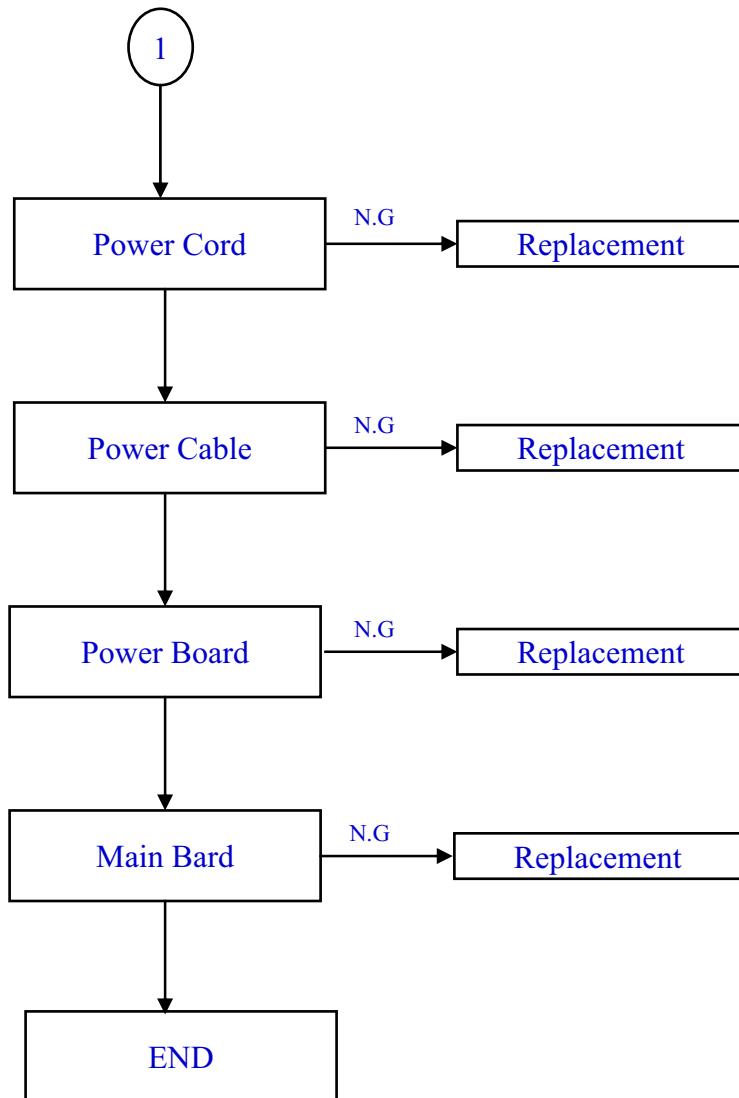
**NOTE:** The diagnostic tests are intended to test only Acer products. Non-Acer products, prototype cards, or modified options may occur errors or invalid responses.

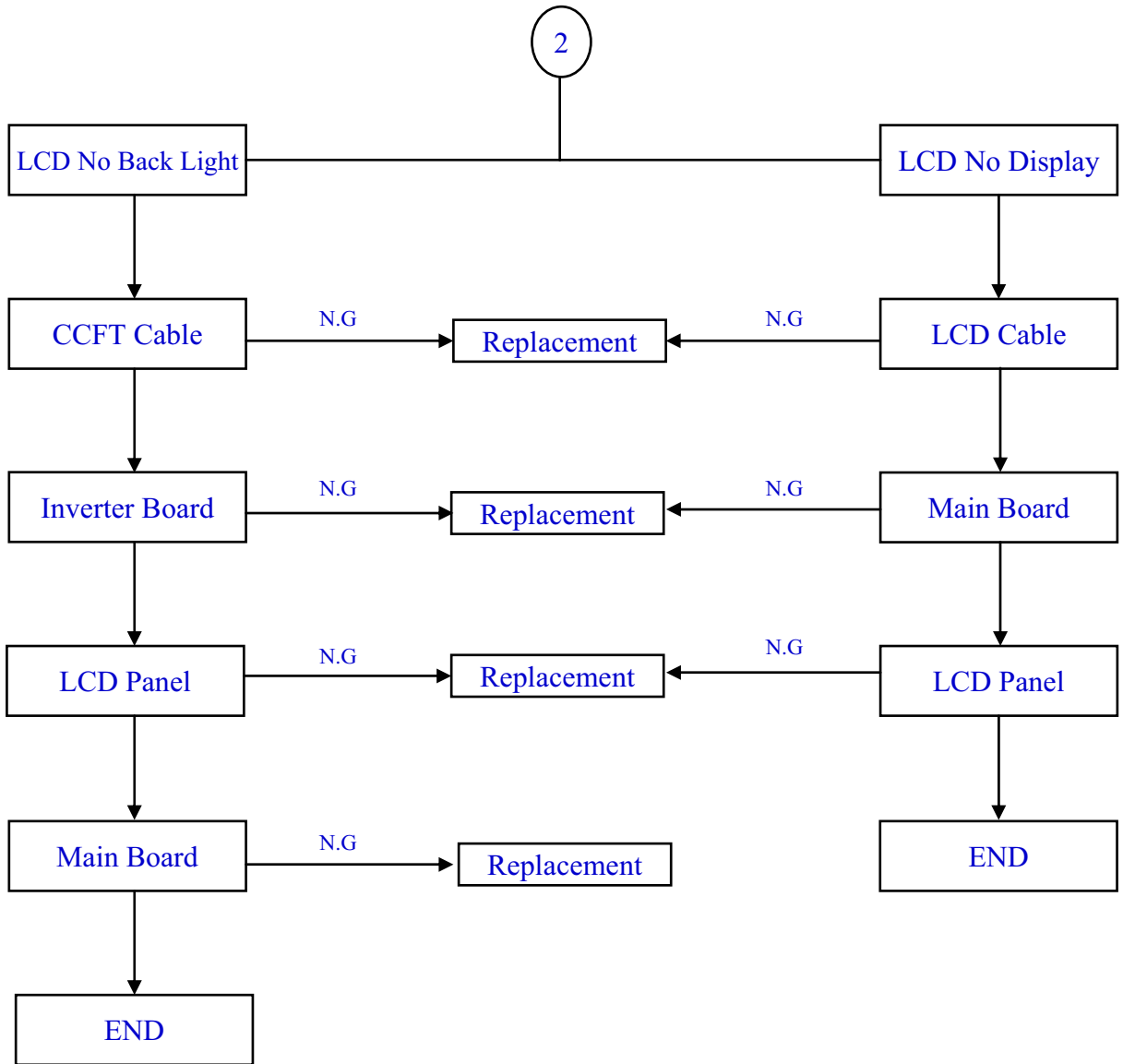
1. Duplicate symptom and obtain the fail symptom as many as possible.
2. Distinguish symptom. Verify the symptoms by attempting to recreate the failure, running the diagnostic tests or repeating the same operation.
3. Disassemble and assemble the unit without any power sources.
4. If any problem occurs, you can perform visual inspection before you follow this chapter's instructions. You can check the following:
  1. Power cords are properly connected and secured;
  2. There are no obvious shorts or opens;
  3. There are no obviously burned or heated components;
  4. All components appear normal.
5. Use the following flow chart to determine which part should be replaced.

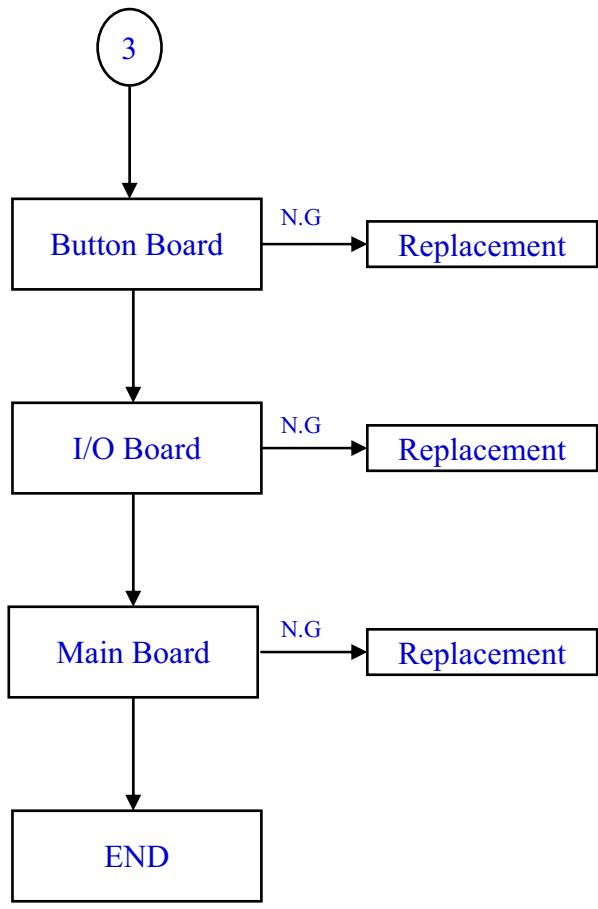
**NOTE:** N. G. in the below figure means "No Good".

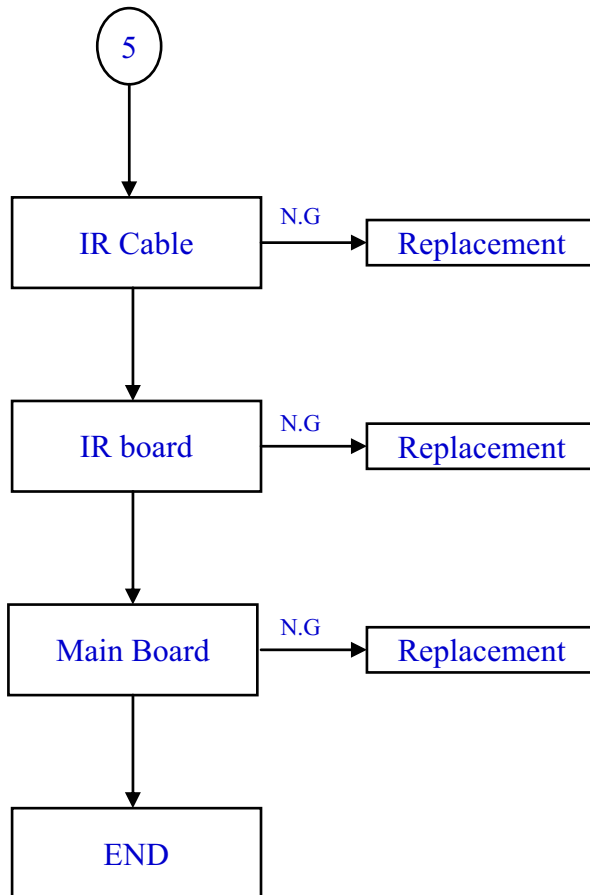
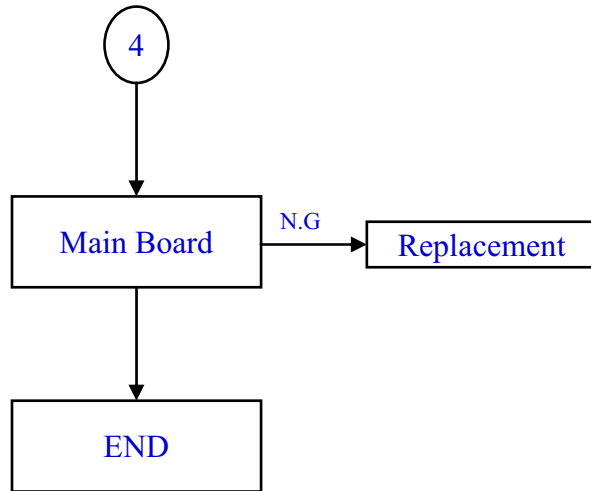


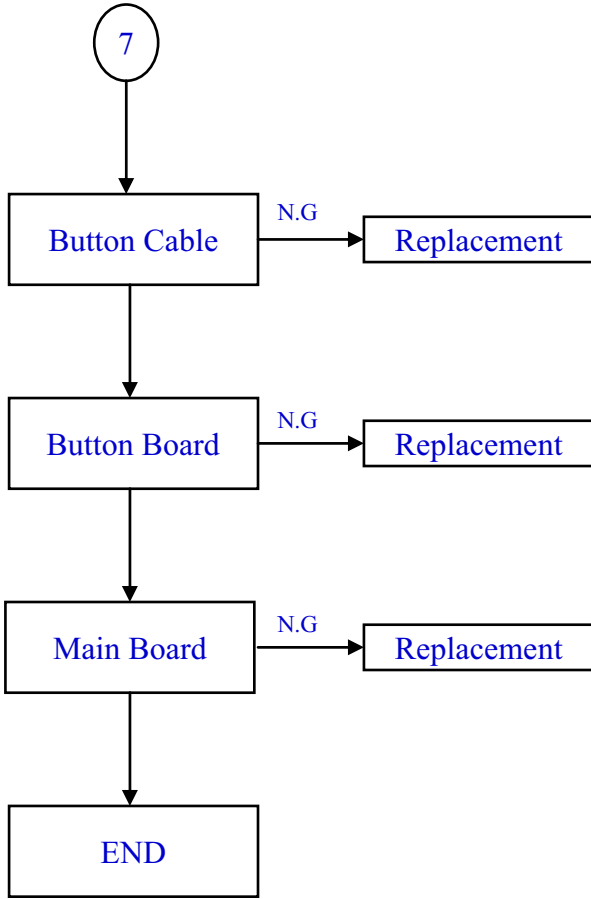
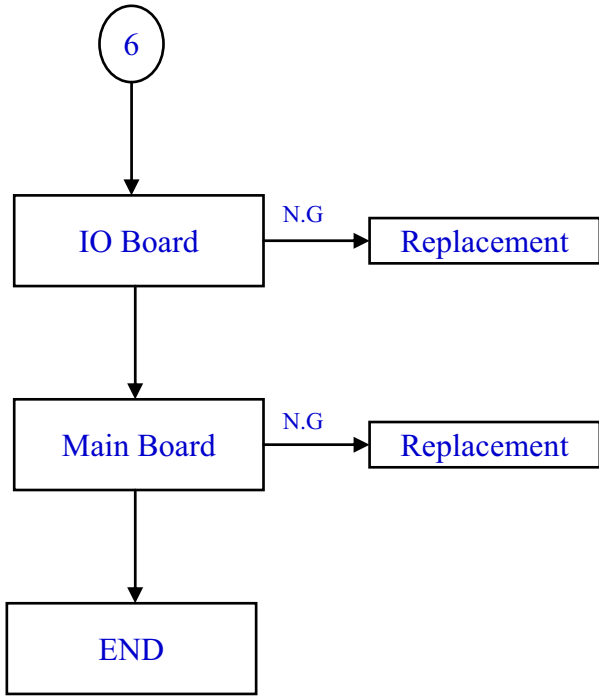


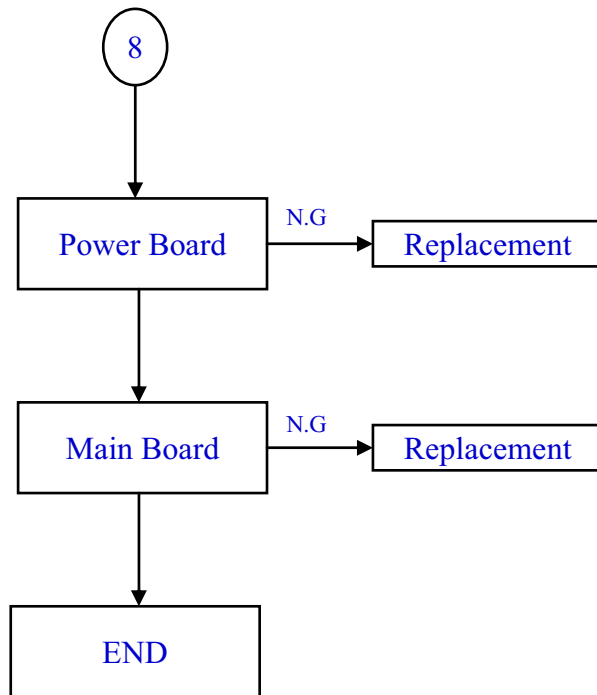


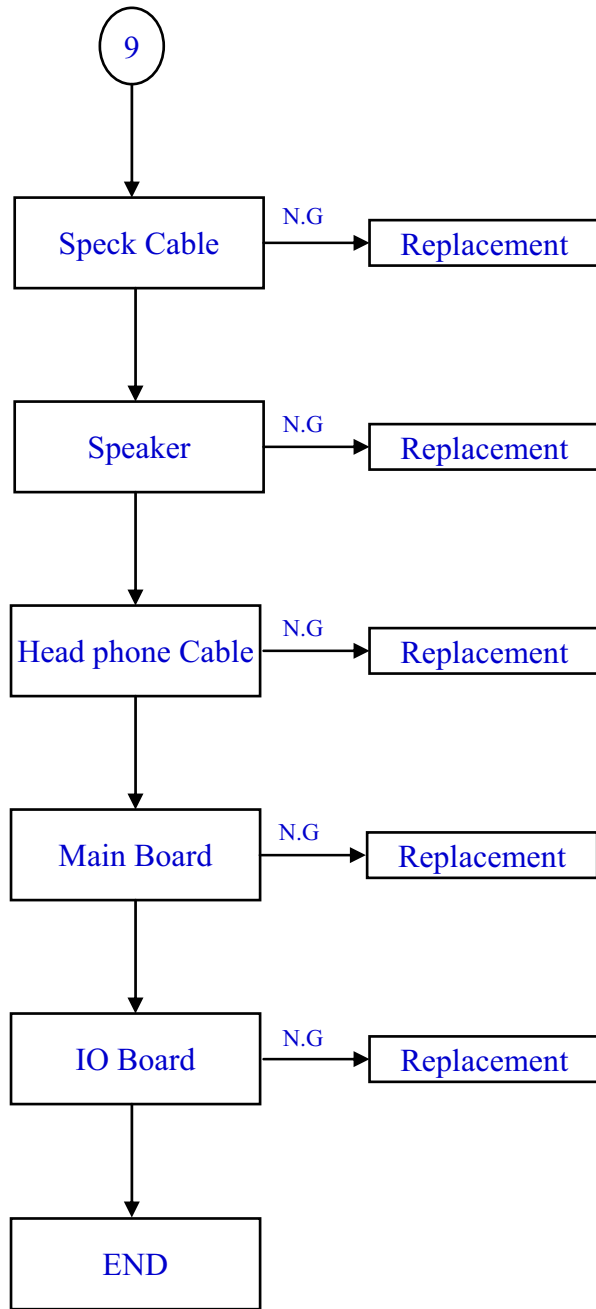


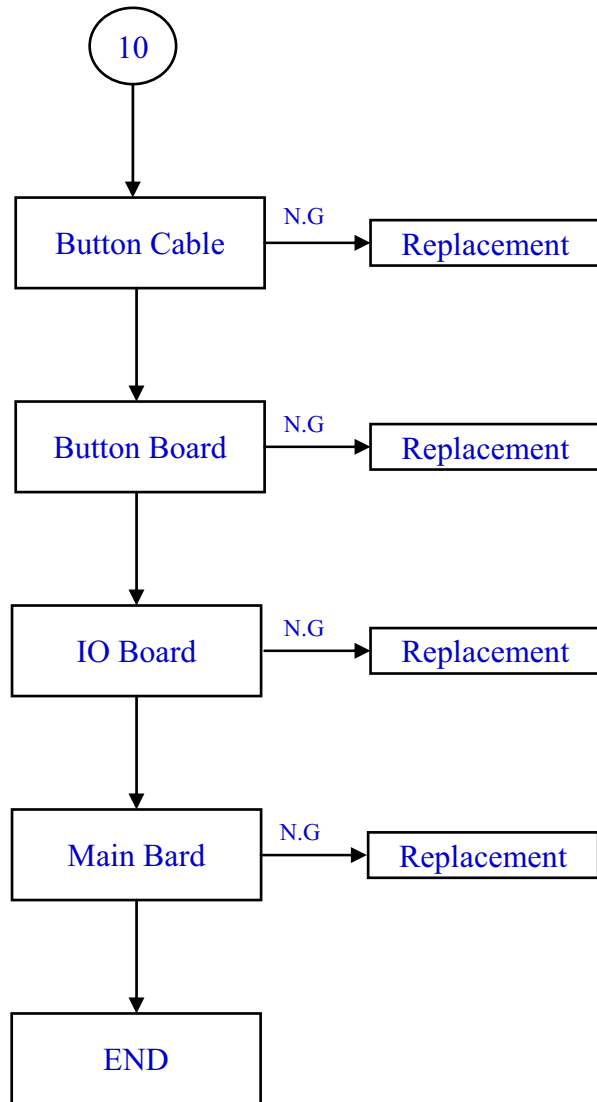














## FRU (Field Replaceable Unit) List

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This chapter offers the FRU (Field Replaceable Unit) list in global configuration of AT2602. 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.

# Parts

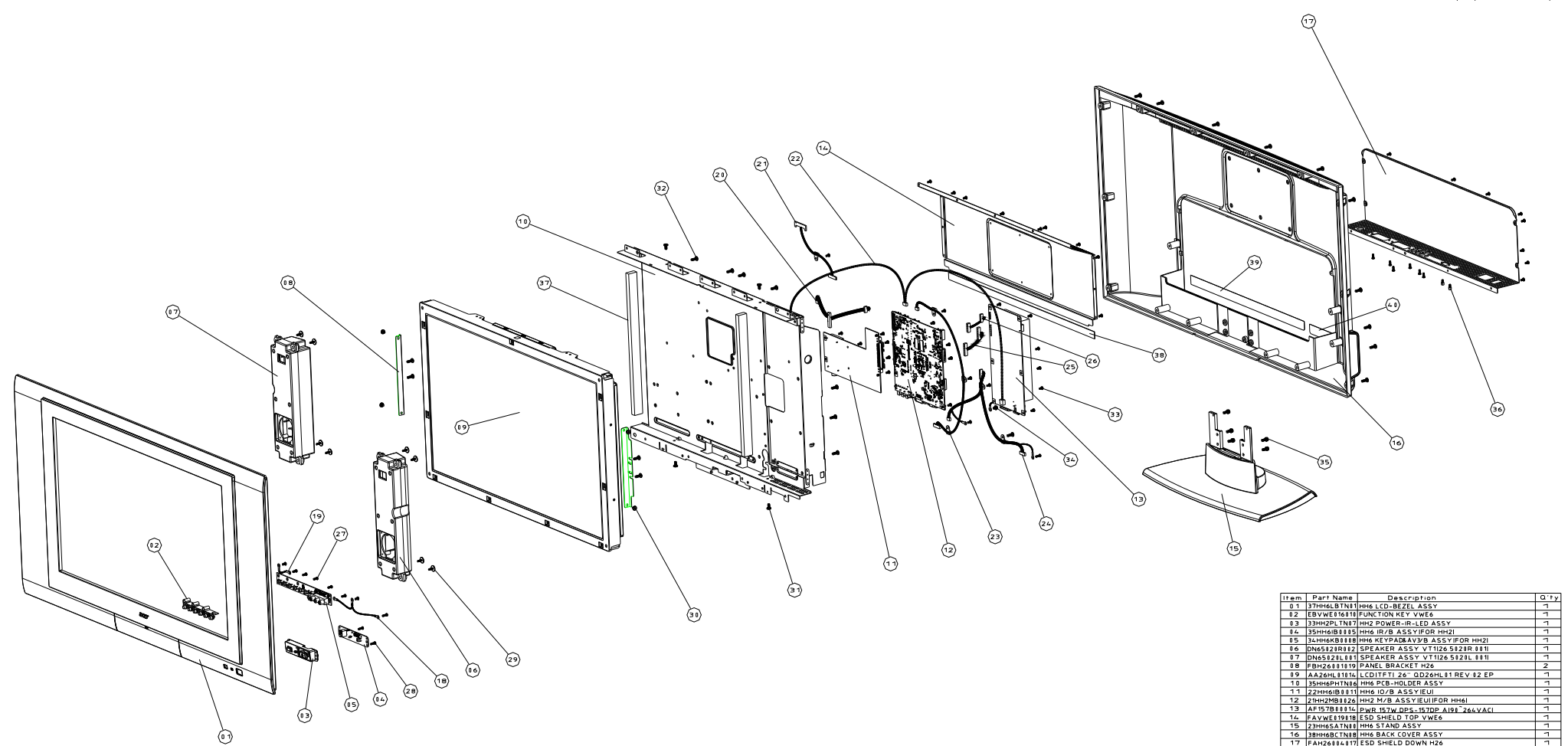
CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
<b>ACCESSORY</b>			
N/A	REMOTE CONTROLLER - PAL EU	REMOTE CONTROL EU	25.M12V7.001
N/A	REMOTE CONTROLLER - PAL AU	REMOTE CONTROL AU	25.M12V7.002
N/A	REMOTE CONTROLLER - NTSC NA	REMOTE CONTROL NA	25.M12V7.003
<b>BOARD</b>			
	IR BOARD	HH6 IR/B ASSY	55.M12V7.002
	POWER BOARD	"PWR 157W,DPS- 157DP A(90~264VAC) "	55.M11V7.001
	KEYPAD BOARD	HH6 KEYPAD&AV3/B ASSY	55.M12V7.001
	IO/TURNER BOARD - PAL EU	HH6 IO/B ASSY(EU)	55.M12V7.004
N/A	IO/TURNER BOARD - PAL AU	HH6 IO/B ASSY(AU)	55.M12V7.005
N/A	IO/TURNER BOARD - NTSC NA	HH6 IO/B ASSY(NA)	55.M11V7.002
	MAIN BOARD - PAL EU	HH2 M/B ASSY(EU)	55.M11V7.003
N/A	MAIN BOARD - PAL AU	HH2 M/B ASSY(AU)	55.M11V7.004
N/A	MAIN BOARD - NTSC NA	HH2 M/B ASSY(NA)	55.M11V7.005
<b>CABLE</b>			
	LVDS CABLE - QDI PANEL	CABLE ASSY HH6 LVDS(QDI)	50.M11V7.001

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
	INVERTER CABLE - QDI PANEL	CABLE ASSY HH6 INVERT(QDI)	50.M11V7.002
N/A	LVDS CABLE - AU PANEL	CABLE ASSY HH6 LVDS(AU)	50.M11V7.003
N/A	INVERTER CABLE - AU PANEL	CABLE ASSY HH6 INVERT(AU)	50.M11V7.004
	CABLE - MB TO POWER	CABLE ASSY VA1 MB-PWR	50.M01V7.004
	CABLE - POWER TO AUDIO	CABLE ASSY HH6 PW-AUDIO	50.M11V7.005
	SPEAKER CABLE	CABLE ASSY HH6 SPEAKER	50.M11V7.006
	CABLE - MB TO AV3	CABLE ASSY HH6 MB-AV3	50.M11V7.007
	CABLE - KEY TO IR TO MB	CABLE ASSY HH6 KEY-IR	50.M11V7.008
	CABLE - GROUND	CABLE ASSY HH6 GND-GND	50.M11V7.009
	CABLE - IRTO GROUND	CABLE ASSY VA1 IB-GND	50.M01V7.011
N/A	CABLE - SCART TO SCART	CABLE ASSY SCART-SCART VA1	50.M03V7.019
N/A	CABLE - SCART TO RCA	CABLE ASSY SCART-RCA VA1	50.M11V7.010

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
N/A	POWER CORD ITALY 3 PIN	POWER CORD SP-028+IS-14H05VV 3P1.8M ITLF	27.M03V7.001
N/A	POWER CORD UK 3 PIN	POWER CORD SP-60+IS-14H05VV 3P 1.8M UKLF	27.M03V7.003
N/A	POWER CORD EU 3 PIN	POWER CORD SP-023+IS-14H05VV-F3P 1.8M EU	27.M03V7.002
N/A	POWER CORD SWISS 3 PIN	POWER CORD(SWISS) 3P 1.8M(BLACK)	27.M11V7.001
<b>CASE / COVER / BRACKET ASSEMBLY</b>			
	LCD BEZEL ASSY W/ FRONT COVER	HH6 LCD-BEZEL ASSY	60.M11V7.001
	FRONT COVER	FUNCTION KEY COVER	42.M12V7.001
	BACK COVER ASSY	HH6 BACK COVER ASSY	60.M11V7.002
	POWER-IR-LED COVER	HH2 POWER-IR-LED ASSY	42.M12V7.002
N/A	PCB HOLDER W/CLIP	HH6 PCB-HOLDER ASSY	33.M11V7.001
	ESD SHIELD TOP	ESD SHIELD TOP VWE6	33.M11V7.002
	FUNCTION KEY	FUNCTION KEY VWE6	42.M12V7.003
	IO COVER - PAL EU	ESD SHIELD DOWN H26 EU	33.M11V7.003
N/A	IO COVER - PAL NA	ESD SHIELD DOWN H26 NA	33.M11V7.004

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
N/A	IO COVER - PAL AU	ESD SHIELD DOWN H26 AU	33.M11V7.005
	LCD BRACKET R=L	PANEL BRACKET H26	33.M11V7.006
	STAND ASSY	HH6 STAND ASSY	60.M11V7.003
<b>LCD</b>			
N/A	LCD 26 IN. QDI QD26HL01 REV 02	"LCD(TFT) 26"" QD26HL01 REV:02 EP"	56.M11V7.001
N/A	LCD 26 IN. AU AA260XW0006	LCD 26 IN. AU AA260XW0006	56.M11V7.002
<b>MISCELLANEOUS</b>			
N/A	CLIP	WIRE CLIP	47.M12V7.004
N/A	GASKET FOR PCB HOLDER	GASKET RS AU HH6	47.M11V7.001
<b>SPEAKER</b>			
	SPEAKER - L	SPEAKER ASSY VT1(26.5020L.001)	23.M01V7.002
	SPEAKER - R	SPEAKER ASSY VT1(26.5020R.001)	23.M01V7.001
<b>LABEL</b>			
N/A	POWER LABEL	LABEL POWER	40.M12V7.001
N/A	I/O TURNER LABEL -PAL EU	LABEL(IO&TUNER- EU)	40.M11V7.001
N/A	I/O TURNER LABEL - NTSC US	LABEL(IO&TUNER- NA)	40.M11V7.002
N/A	I/O TURNER LABEL - PAL AUS	LABEL(IO&TUNER- AU)	40.M11V7.003
<b>SCREW</b>			
N/A	"IO NUT VT1(MBVT1002,REV3A)"	"IO NUT VT1(MBVT1002,REV3 A)"	86.M01V7.010
N/A	SCREW T3*8 P (NI)	SCREW T3*8 P (NI)	86.M01V7.007
N/A	SCREW T3.0*10.0-P(NI)	SCREW T3.0*10.0- P(NI)	86.M12V7.007
N/A	SCREW T3*12-B(NI)EP	SCREW T3*12- B(NI)EP	86.M12V7.006

CATEGORY	PARTNAME	DESCRIPTION	ACER PART NO.
N/A	SCREW M3*6-B(BNI)	SCREW M3*6-B(BNI)	86.M08V7.003
N/A	SCREW M4*6 P (NI)	SCREW M4*6 P (NI)	86.M01V7.002
N/A	SCREW T4*12-B(BLACK)	SCREW T4*12-B(BLACK)	86.M03V7.004
N/A	SCREW T3*8-P(BLACK)	SCREW T3*8-P(BLACK)	86.M03V7.003
N/A	SCREW M3*6-B(BNI)	SCREW M3*6-B(BNI)	86.M08V7.003
N/A	SCREW M4.0*4-I(NYLOK)	SCREW M4.0*4-I(NYLOK)	86.M11V7.001
N/A	SCREW M4.0*8.0-I(NI)-NYLOK	SCREW M4.0*8.0-I(NI)-NYLOK	86.M11V7.002
N/A	SCREW M4*12-P (MC)	SCREW M4*12-P (MC)	86.M11V7.003
<b>PACKING</b>			
N/A	LCD PANEL PROTECT FILM	FB CORNER PROTECT FILM VV3	47.M11V7.001
N/A	EPE SHHET	"EPE SHEET HH6(HAHH6001,3A)600*350"	47.M11V7.002
N/A	EPE BAG - AT2602	"EPE BAG VWE6(HAVWE002,3A)950*650"	47.M11V7.003
N/A	EPS FOAM(T-L)	"EPS FOAM(T-L)HH6(HBHH6001,3A)"	47.M11V7.004
N/A	EPS FOAM(T-R)	"EPS FOAM(T-R)HH6(HBHH6002,3A)"	47.M11V7.005
N/A	EPS FOAM(B-L)	"EPS FOAM(B-L)HH6(HBHH6007,3A)"	47.M11V7.006
N/A	EPS FOAM(B-R)	"EPS FOAM(B-R)HH6(HBHH6008,3A)"	47.M11V7.007
N/A	T2602 CARTON	"CARTON HH6(HFHH6003,3A)A T2602 ACER"	47.M11V7.008



Item	Part Name	Description	Qty
0 1	37HH6LBTN11	HH6 LCD-BEZEL ASSY	-1
0 2	EBVWE16811	FUNCTION KEY VW66	-1
0 3	33HH6PL1N1	HH2 POWER-IR LED ASSY	-1
0 4	35HH6IB115	HH6 IR/B ASSY FOR HH2I	-1
0 5	34HH6KB118	HH6 KEYPAD AV3/B ASSY FOR HH2I	-1
0 6	DN6521812	SPEAKER ASSY VT1126 512R 1111	-1
0 7	DN6521101	SPEAKER ASSY VT1126 512BL 1111	-1
0 8	FBH2611119	PANEL BRACKET H26	2
0 9	AA26HL1111	LC01FF1 26-OD26HL11 REV 12 EP	-1
1 0	35HH6PH114	HH6 PCB-HOLDER ASSY	-1
1 1	22HH6IB111	HH6 I/O B ASSY I/OU	-1
1 2	21HH2HB126	HH2 M/B ASSY I/OU FOR HH6I	-1
1 3	AF15711114	HWB 157W POS-157DR 11H1 24xVAC1	-1
1 4	FAVWE119118	ESD SHIELD TOP VW66	-1
1 5	23HH6SAT11	HH6 STAND ASSY	-1
1 6	38HH6CTN18	HH6 BACK COVER ASSY	-1
1 7	FAH26114171	ESD SHIELD DOWN H26	-1
1 8	DD1HH6T1314	CABLE ASSY HH6 GND-GND11P/2P 2AI	-1
1 9	DD1VAT11714	CABLE ASSY VAI IB-GND1P REV 3AI	-1
2 0	DD1HH6V1118	CABLE ASSY HH6 INVERT11LP/LP/6P REV2A1EP	-1
2 1	DD1HH6T1217	CABLE ASSY HH6 LVDS121P/31P REV2A1EP	-1
2 2	DD1HH6S1118	CABLE ASSY HH6 SPEAKER1P/3P/2P REV3A1EP	-1
2 3	DD1HH6T11112	CABLE ASSY HH6 MB-AV31P/11P REV2A1EP	-1
2 4	DD1HH6T11111	CABLE ASSY HH6 KEY-IR11P/7P/LP/REV2A1EP	-1
2 5	DD1VAP1113	CABLE ASSY VAI MB-PWR 11P REV3AI	-1
2 6	DD1HH6S1111	CABLE ASSY HH6 PW-AUD10P 7P REV3A1EP	-1
2 7	MT31111P112	SCREW T3-B-P1BLACK1	1 1
2 8	MT31111P114	SCREW T3-B-P1NI	4
2 9	MT31111B111	SCREW T3-12-B1H1EP	8
3 0	MM41111B111	SCREW M4 1+L-11NYLOK1	4
3 1	MM41111B111	SCREW M4 1+R-11NYLOK	4
3 2	MT41111B111	SCREW T4-12-B1BLACK1	27
3 3	MM31111B112	SCREW M3-6-B1BN1	4 0
3 4	MM41111P112	SCREW M4-6-P 1NI	7
3 5	MM41111P115	SCREW M4-12-P 1H1	5
3 6	MBV11111113	IO NUT VT11MBV11112 REV3AI	2
3 7	GBHH6111171	GASKET RS AU HH6	2
3 8	GBHH6111118	GASKET TOP AU HH6	-1
3 9	HCHH6111171	LABEL I/OK TUNER-LU HH6	-1
4 8	HCHH6111114	LABEL POWER HH6	-1