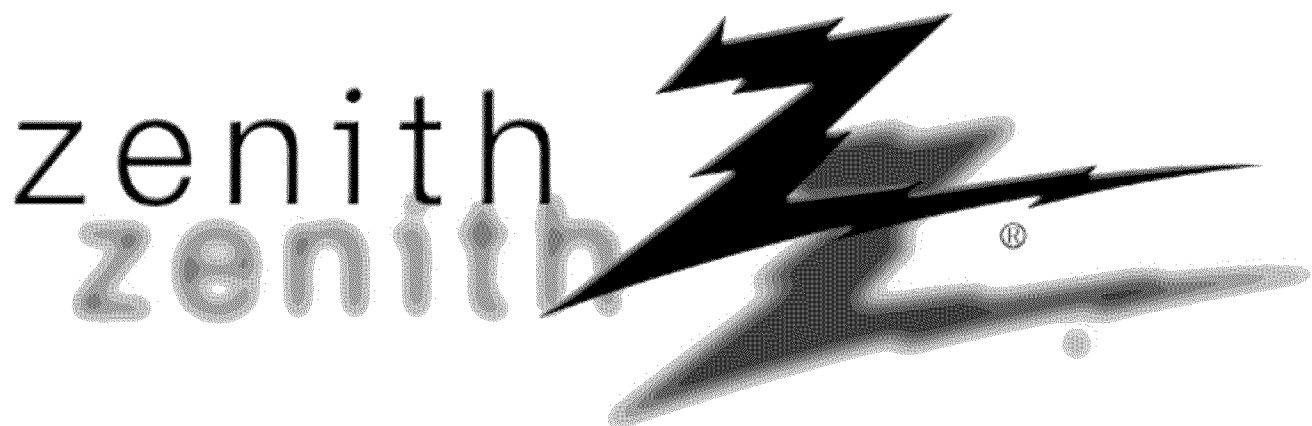


Installation and Operating Guide | Warranty

Model Numbers	Z15LCD1* Z20LCD1*	LCD TV
---------------	----------------------	--------



Warning



WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION:

Do not attempt to modify this product in any way without written authorization from LG Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

COMPLIANCE:

The responsible party for this device compliance is:

Zenith Electronics Corporation

1-201-816-2000

Marked and distributed in the United States by LG Electronics U.S.A., Inc.

1000 Sylvan Avenue, Englewood Cliffs, NJ 07632

<http://www.zenith.com>

Safety Instructions

WARNING :

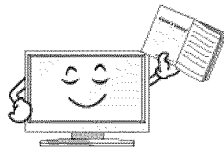
To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Apparatus To Rain Or Moisture.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.

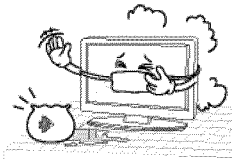
2. Keep these instructions.



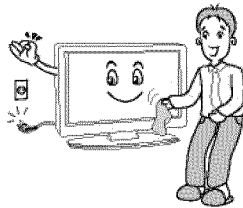
3. Heed all warnings.

4. Follow all instructions.

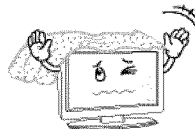
5. Do not use this apparatus near water.



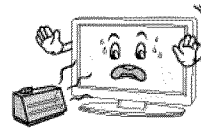
6. Clean only with a dry cloth.



7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.

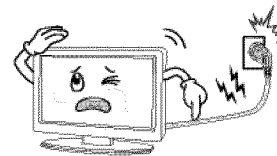


8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



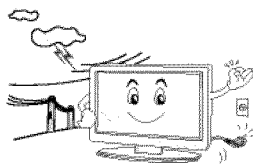
11. Only use the attachments / accessories specified by the manufacturer.

Safety Instructions continued

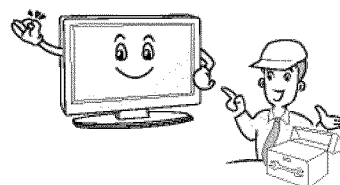
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lightning storms or when unused for long periods of time.



14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Note

- If the TV feels cold to the touch, there may be a small "flicker" when when it is turned on. This is normal, there is nothing wrong with TV.
- Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.
- Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

On Disposal

- a. The fluorescent lamp used in this product contains a small amount of mercury.
 - b. Do not dispose of this product with general household waste.
- Disposal of this product must be carried out in accordance to the regulations of your local authority.

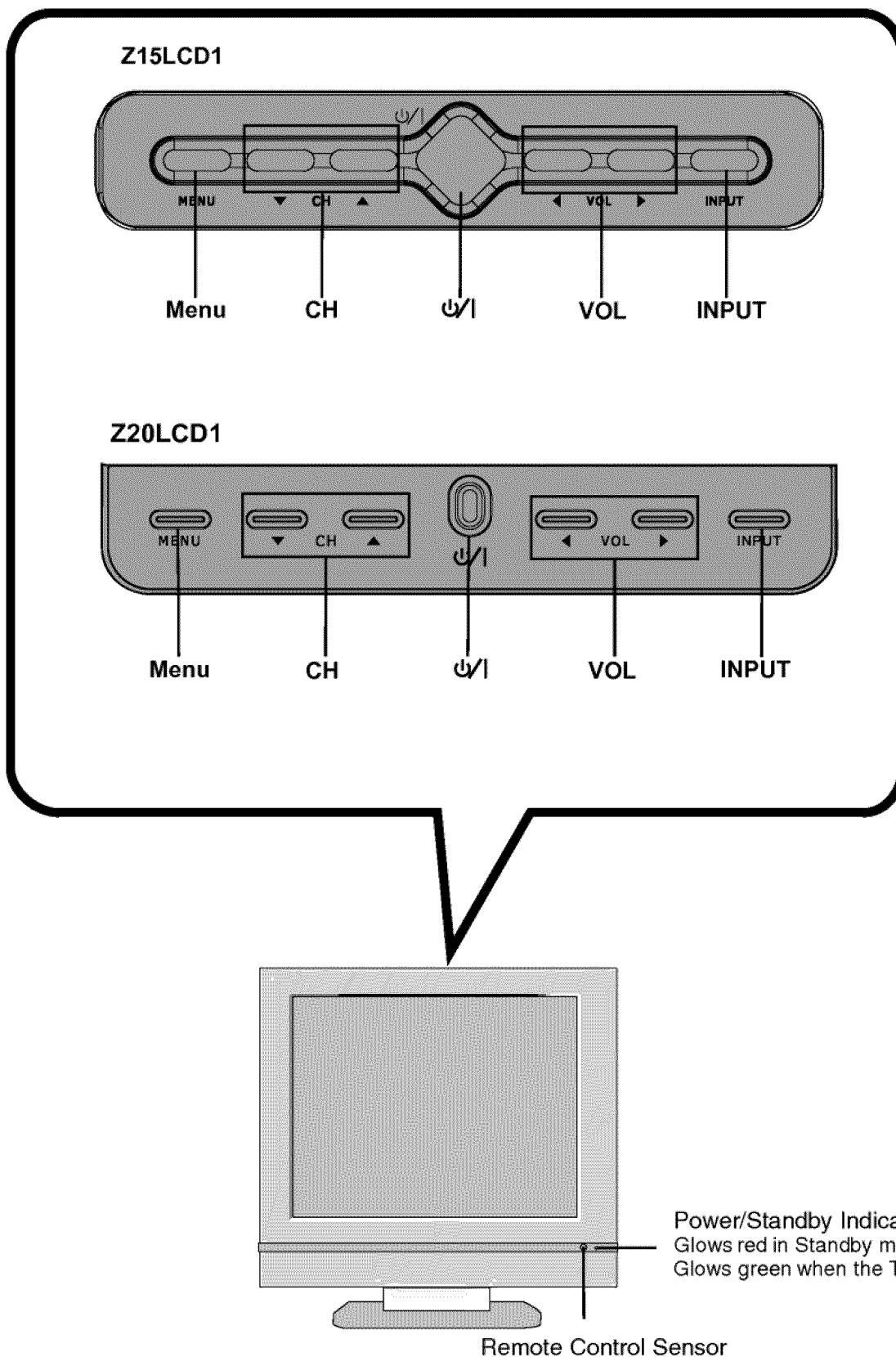
Contents

Warnings	2
Safety Instruction	3-4
Introductory	
controls	6
Connection Options	7
Remote Control Key Functions	8
Installation	
Accessories	9
Installation Instruction	10
External Equipment Connections	11-15
Antenna Connection	11
VCR Setup	12
Cable TV Setup	12
External A/V Source Setup	13
DVD Setup	13
DTV Setup	14
Using headphones	14
PC Setup	15
Operation	
To Use The Menus	16
Main Menu	16
Sound Menu Options	17
Picture Menu Options	18
Special Menu Options	19
Child Lock	20
Channel Menu Options	21
Special Menu Options	22
Maintenance	23
Product Specifications	23
Troubleshooting Checklist	24

After reading this manual,Keep it handy for future reference.

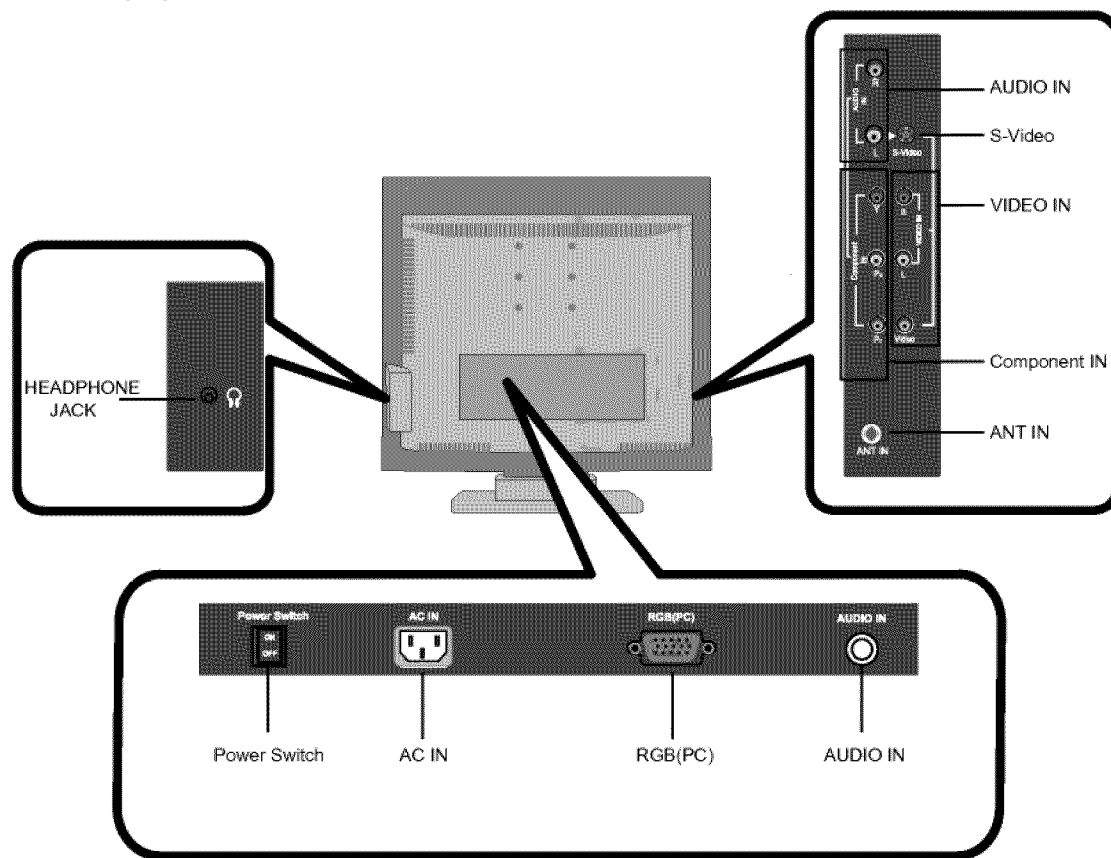
Introduction

Controls

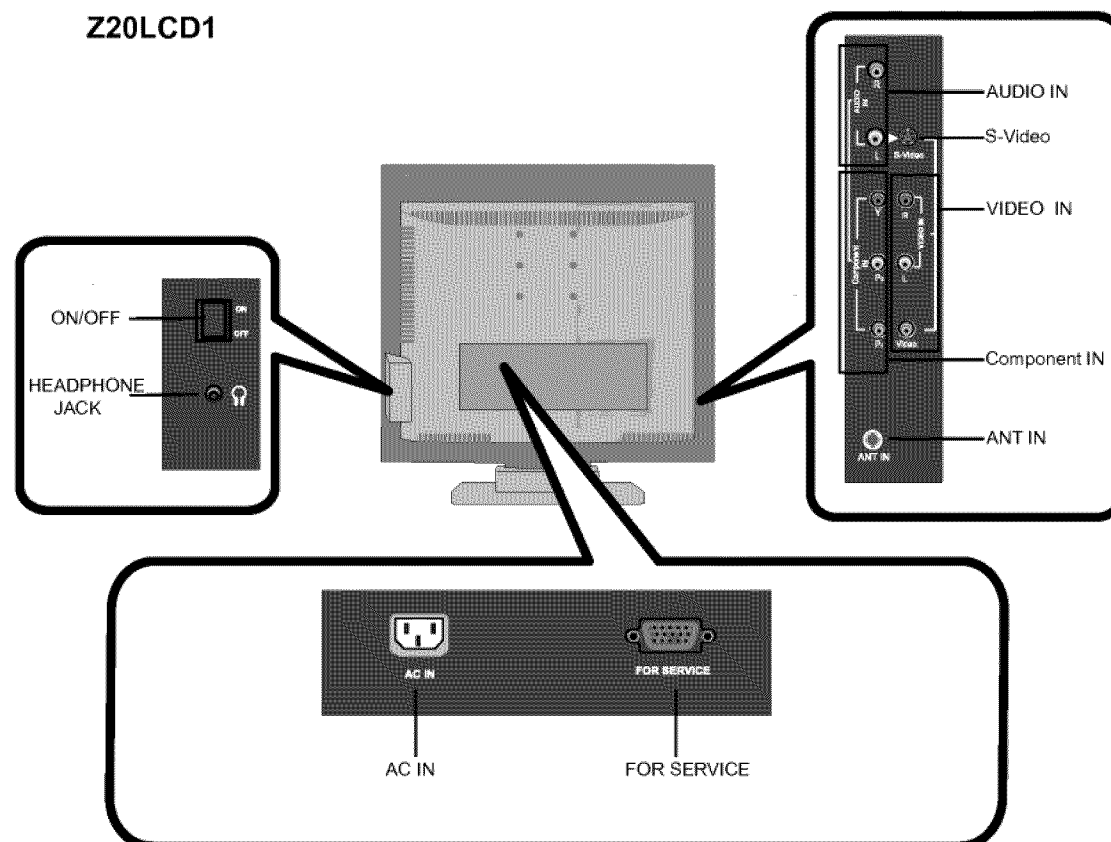


Connection Options

Z15LCD1

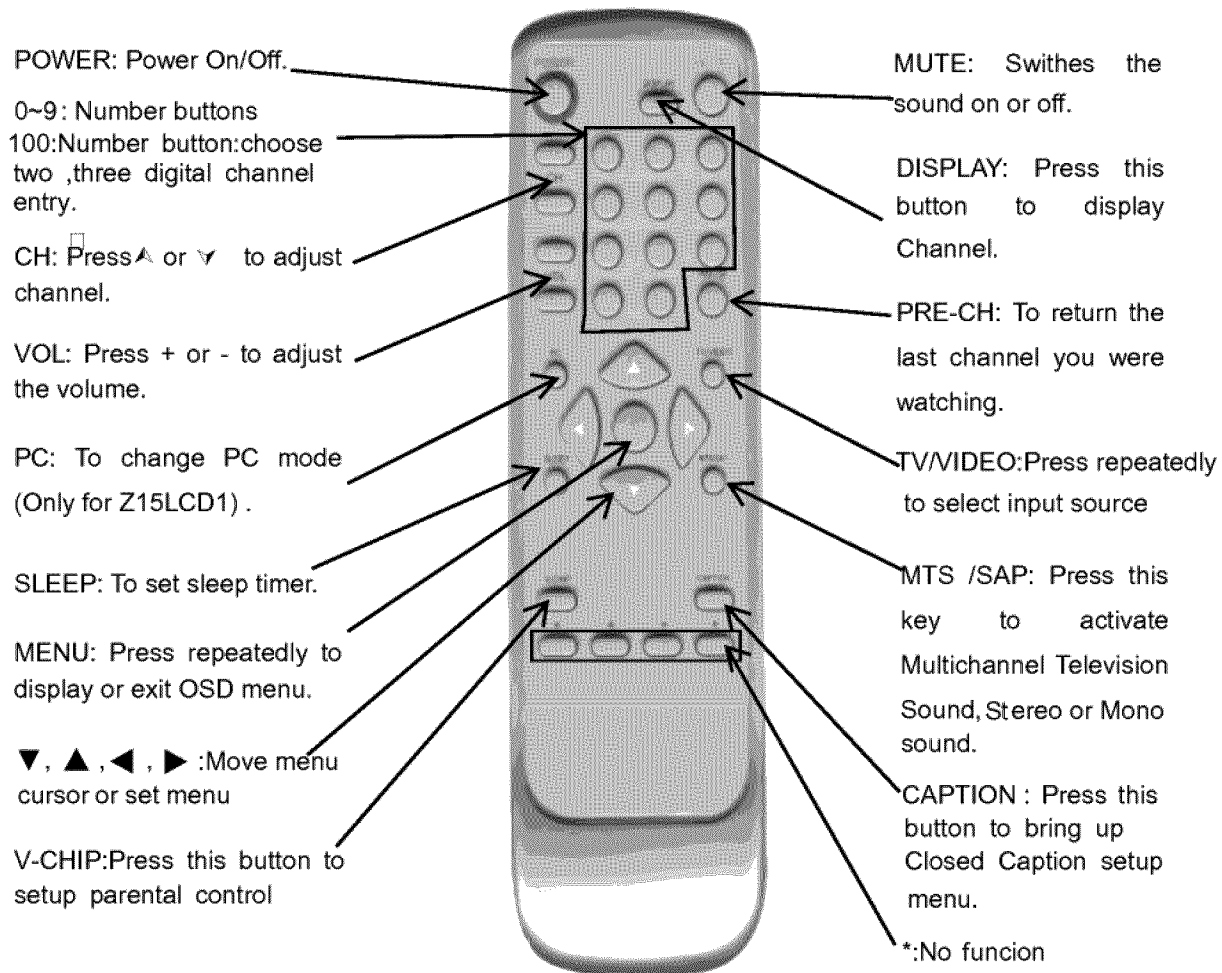


Z20LCD1

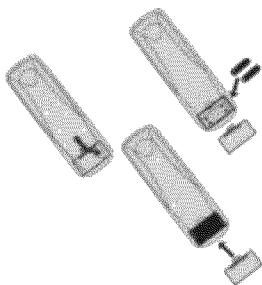


Remote Control Key Functions

- When using the remote control, aim it at the remote control sensor on the TV.



Installing Batteries



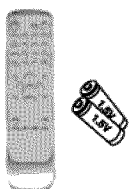
- Open the battery compartment cover on the back side and insert the batteries with correct polarity.
- Use two 1.5V batteries of AAA type. Don't mix used batteries with new batteries.

Installation

Accessories



Owner's Manual



AAA Batteries
Remote Control



Power Cord



Audio cable (PC)
(Z15LCD1 only)



D-sub cable (PC)
(Z15LCD1 only)



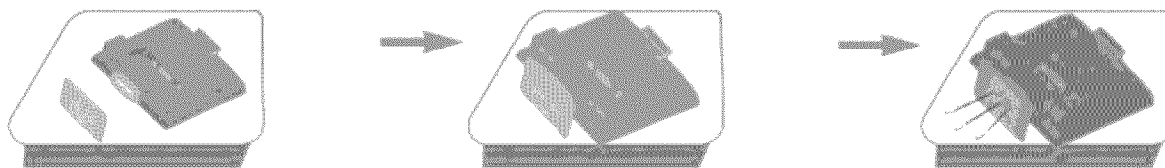
3-Fixing screw for stand
(Z20LCD1 only)

Installation Instruction

Assembly the stand base

1. Place the set with its front facing downward on a soft cloth.
2. Assemble the stand into the set in the correct direction.
Make sure you push it until you hear it "click".
3. Once assembled take the set up carefully and face the front side.
4. Lock 3pcs fixing screws at the last step(for Z20LCD1 only).

Note: Here shown may be somewhat different from your set.

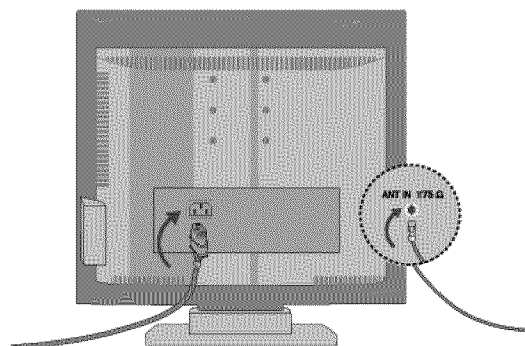


Installation Instruction

Connection of TV

1. Connect the aerial cable to the socket marked ANT IN on the side. For the best reception an outdoor aerial should be used.
2. To connect an additional equipment, see the **External Equipment Connections** section.
3. Connect the power cord.

Note: Here shown may be somewhat different from your set.



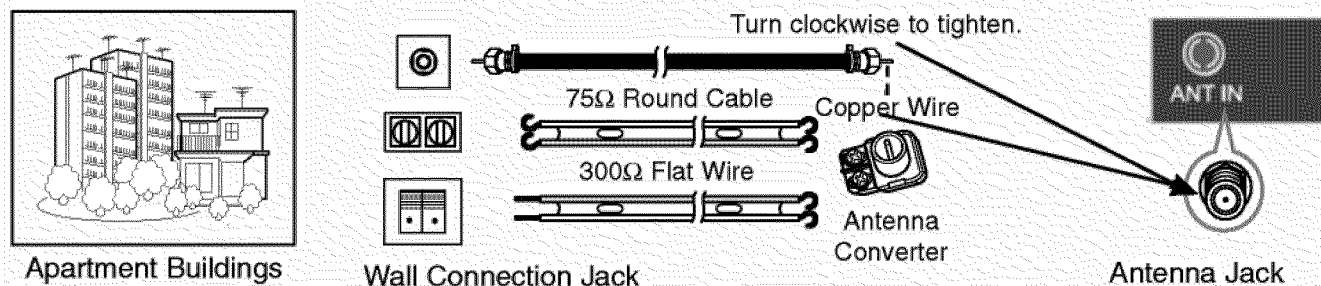
External Equipment Connections

Antenna Connection

- For optimum picture quality, adjust antenna direction.

Connecting to an Inside Antenna Setup

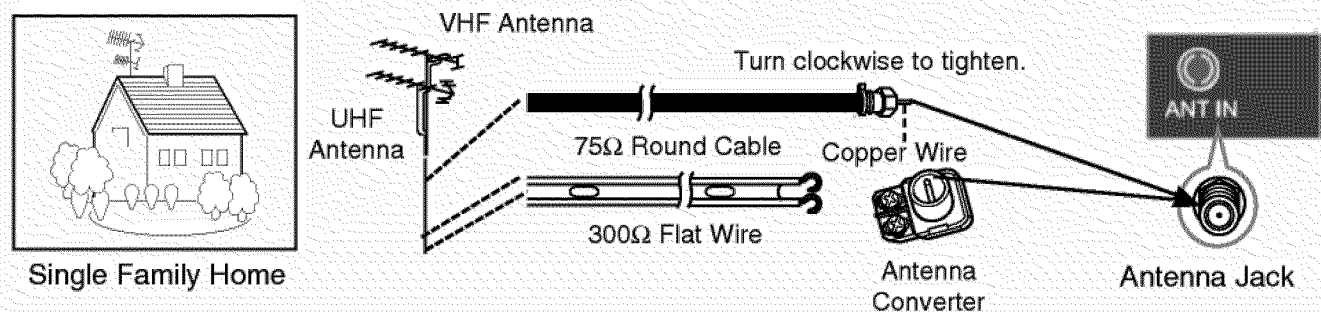
- Typical wall antenna jack used in apartment buildings, connect the antenna cable as shown below. (Use the correct type of antenna cable for the type of wall antenna jack.)



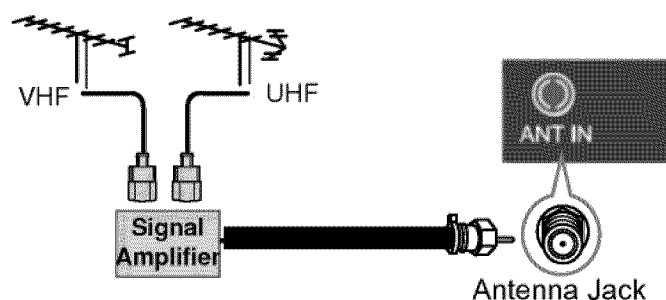
- If you have a 75Ω round cable, insert the bronze wire and then tighten the connection nut. If you have a 300Ω flat wire, connect the twisted wire to the antenna converter and then connect the converter to the antenna jack on the TV.
- If using 75Ω round cable, do not bend the bronze wire. It may cause poor picture quality.

Connecting to an Outdoor Antenna Setup

- This type of antenna is commonly used in single family dwellings.



- In poor signal areas, to get better picture quality, install a signal amplifier to the antenna as shown to the right.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.



External Equipment Connections Continued

VCR Setup

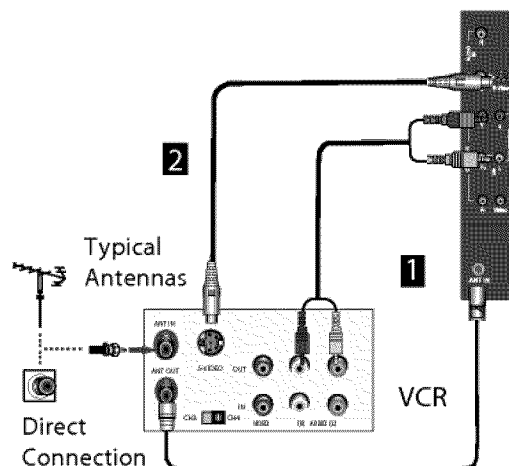
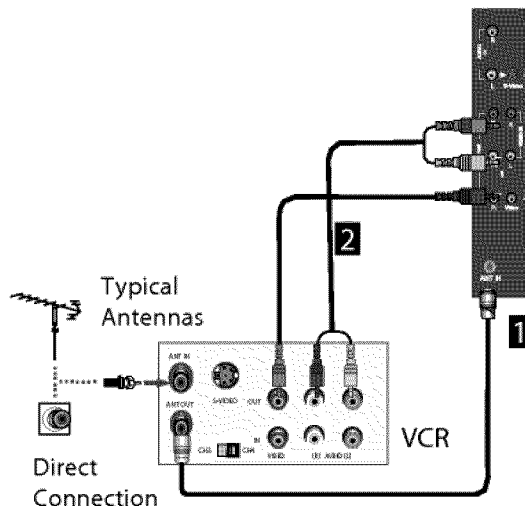
- In Video mode, TV automatically reverts to TV mode if the INPUT buttons are pressed.

Connection 1

Set VCR switch to 3 or 4 and then tune TV to the same channel number.

Connection 2

1. Connect the audio/video output jacks on VCR to the corresponding input jacks on the TV. When connecting the TV to a VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
2. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner manual.)
3. Use the TV/VIDEO button on the remote control to select Video. (If connected to S-VIDEO on rear panel, select the S-Video external input source.)



Cable TV Setup

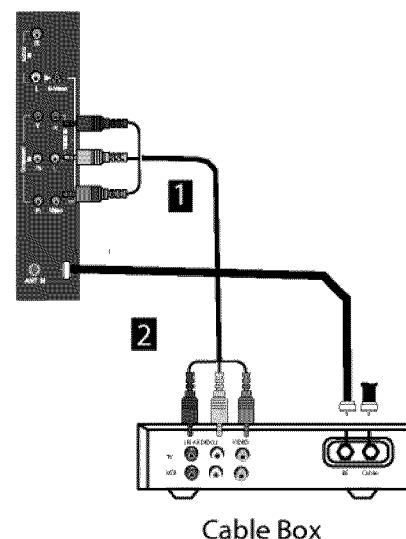
- After subscribing to a local cable TV service and installing a converter, you can watch cable TV programming.
- For further cable TV information, contact a local cable service provider.

Connection 1

1. Select 3 or 4 with channel switch on cable box.
2. Tune the TV channel to the same selected output channel of cable box.
3. Select channels at the cable box or with the cable box remote control.

Connection 2

1. Connect the audio/video output jacks on Cable Box to the corresponding input jacks on the TV. When connecting the TV to Cable Box, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
2. Use the TV/VIDEO button on the remote control to select Video.
3. Select channels with the cable box remote control.



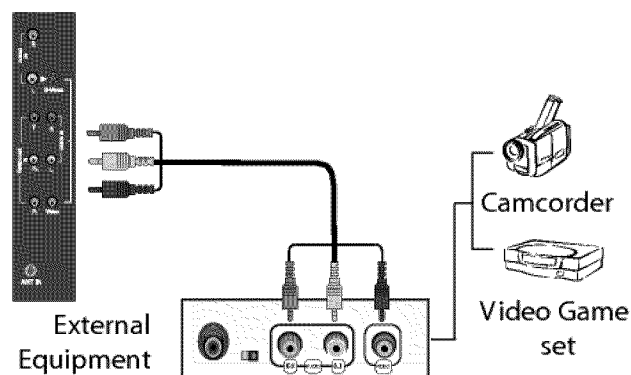
External A/V Source Setup

Connections

Connect the audio/video output jacks on the external A/V equipment to the corresponding input jacks on the TV. When connecting the TV to external A/V equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

Viewing Setup

1. Turn on the external A/V equipment.
2. Use the TV/VIDEO button on the remote control to select Video.
3. Operate the corresponding external equipment. Refer to external equipment operating guide.



DVD Setup

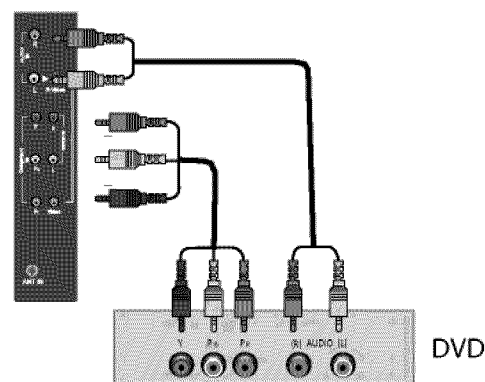
Connections

1. Connect the DVD video outputs to the COMPONENT (Y, P_B, P_R) jacks and connect the DVD audio outputs to the AUDIO jacks.
2. If your DVD only has an S-Video output jack, connect this to the S-VIDEO input on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV.

NOTE: If your DVD player does not have component video output, use S-Video.

Viewing Setup

1. Turn on the DVD player, insert a DVD.
2. Use the TV/VIDEO button on the remote control to select Component.
3. Refer to the DVD player's manual for operating instructions. (If connected to S-VIDEO on rear panel, select the Video external input source.)



Component Input ports

To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports of the TV	Y	P _B	P _R
Video output ports of DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P _B	P _R

Model	Signal	Component
Z15LCD1	480i/480p/720p/1080i	Yes
Z20LCD1	480i/480p	Yes

DTV Setup

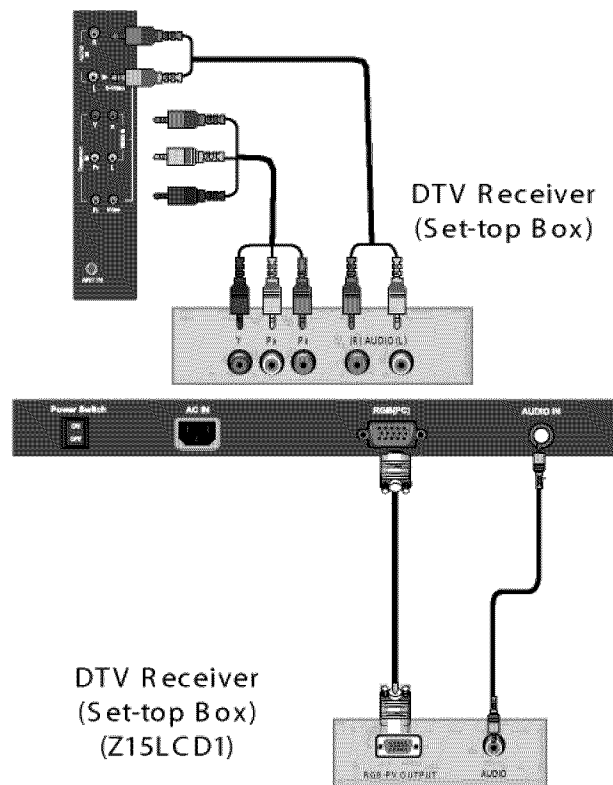
- To watch digitally broadcast programs, purchase and connect a digital set-top box.

Connections

Connect the digital set-top box video outputs to the COMPONENT (Y, PB, PR) jacks and connect the digital set-top box audio outputs to the AUDIO jacks. (or, Connect the set-top box with the D-sub output socket to PC INPUT socket on the set and audio cable of the set-top box to the PC SOUND. (Z15LCD1only)

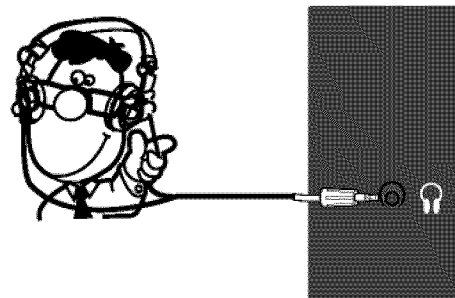
Viewing Setup

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use the TV/VIDEO button on the remote control to select Component or PC (Z15LCD1only).



Using Headphones

- Plug headphones in to H/P jack as shown.
- Adjust sound level to a headphone using the volume buttons. While you are listening to sound through a headphone(s), TV speakers will not be heard.



PC Setup (Z15LCD1 only)

- After setup, be sure to select PC source on TV.

Connections

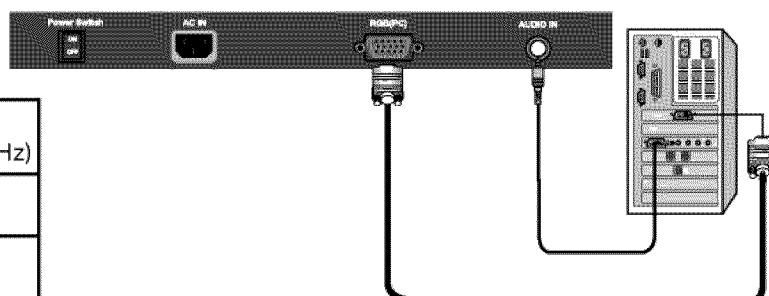
1. Set the monitor output resolution on the PC before connecting to the TV.
2. Connect the TV to the PC with the PC cable.
3. Connect the PC audio output to the TV's PC SOUND input.

Viewing Setup

1. Turn on the PC.
2. Use the PC button on the remote control to select PC.

Monitor Display Specifications

MODE	Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
VGA	640x480	31.4	60
SVGA	800x600	37.8	60
XGA	1024x768	48.3	60



NOTES

- a. For optimum picture quality, use standard 1024x768@ 60Hz computer output at a 60Hz refresh rate. Using other formats (VGA, SVGA, etc.) or refresh rates may result in reduced picture quality. (To change the computer video output format, please refer to the operating manual for the computer you are using).
- b. If the message "Input Out of range" appears on the screen, adjust the PC output to a format listed in the 'Monitor Display Specifications' chart above.
- c. The synchronization input form for Horizontal and Vertical frequencies is separate.

DPM (Display Power Management) mode

If the PC goes to power saving mode, the monitor automatically switches to DPM mode.

If you don't use the PC cable provided, DPM mode may not work.

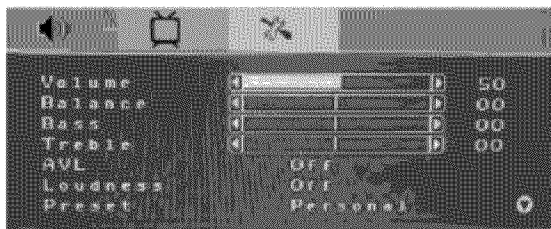
TO USE THE MENUS

1. Press the **MENU** button to display each menu
2. Use **▼**, **▲** to select a menu item.
3. Use **◀**, **▶** to enter a submenu or enable/disable the function.
4. Press the **MENU** button to exit the menu.

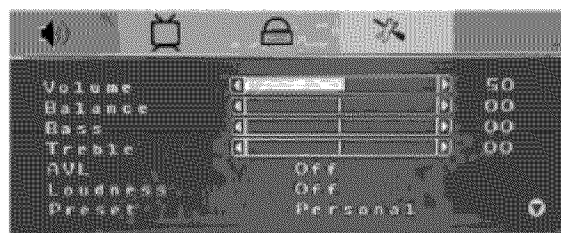
MAIN MENU

Press the MENU button to enter the main OSD (On Screen Display). Adjust the items including Sound options, Picture options, Child Lock options, Special options and Channel options.

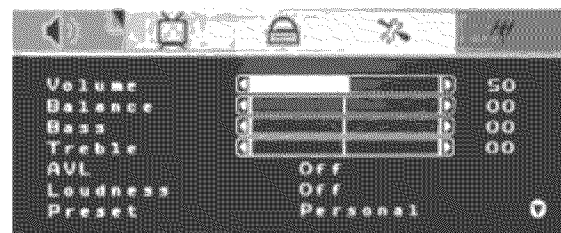
When the input source is PC (Only for Z15LCD1) or Component mode, only the Sound options, Picture options and Special options can be selected; shown in the figure below:



When the input source is Video or S-Video mode, Sound options, Picture options, Child Lock options and Special options can be selected; shown in the figure below:

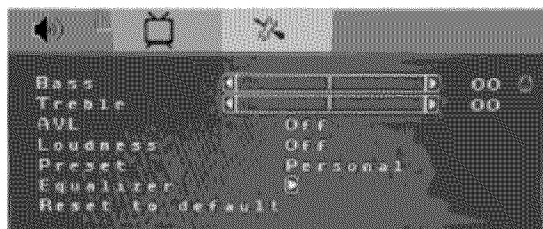


When the input source is TV mode, Sound options, Picture options, Child Lock options, Special options and Channel options can be selected; shown in the figure below:



Sound Menu Options

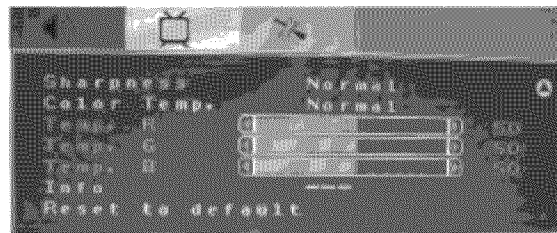
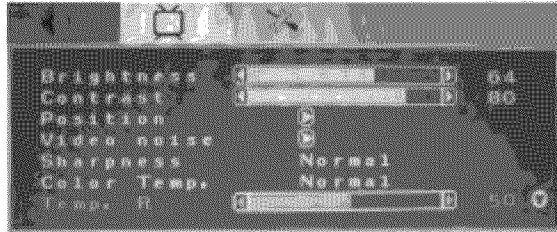
1. The range of adjusting volume, bass : -05~+05, treble : -05~+05.
2. The range of adjusting Balance is L40~R40; when adjusting from 0 to L40, the sound from the left track fades until silence; when adjusting from 0 to R40, the sound from the right track fades until silence.
3. AVL: you can set it "ON" or "OFF".
The function is to adjust the input sound automatically. You may enable this function when you notice that the sound in the two tracks are very different, in order to prevent the bad sound effect resulting from large sound variation.
4. Select "ON" or "OFF" for Loudness: a default setting is preset, you may adjust when necessary.
The following menu will appear when selecting continuously:



5. Preset: Designed for different types of sound output, wherein, the dialogue, music and theater modes are preset; you can set Bass, Treble and Equalizer in sound output mode according to your preference.
6. Equalizer: You can select and adjust 100, 300, 1K, 3K and 8K respectively (the figures represent the sound frequency range).
7. Reset to default: Reset the sound setting to the factory default value.

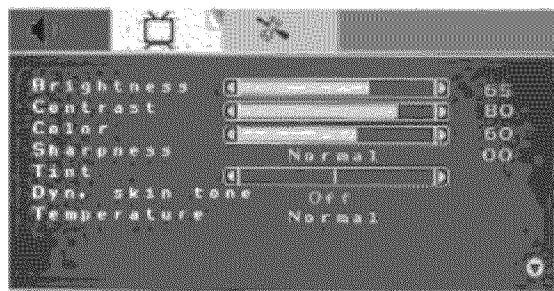
Picture Menu Options

When the input source is in PC mode(Only for Z15LCD1) , you can select Brightness, Contrast, Position, Video noise, Sharpness, Info, Color Temp., Red, Green, Blue and Reset to default; shown in the figure below:

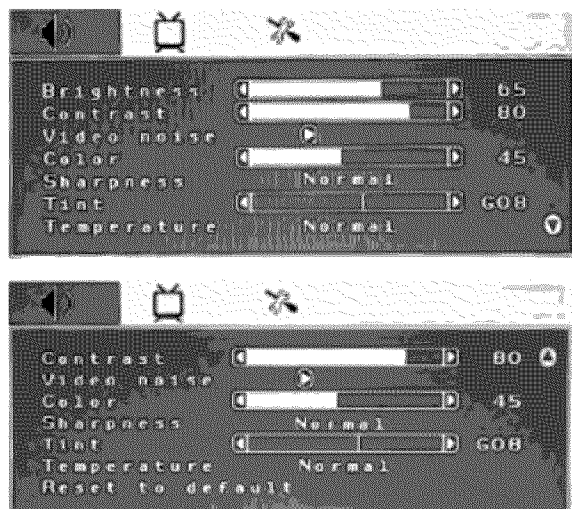


1. Brightness and Contrast: The range can be adjusted from 0~100.
2. Position: There are two options, Horizontal and Vertical, which can be adjusted from -50 to +50.
3. Video noise: There are two options, Phase and Clock, which can be adjusted from -50 to +50.
4. Sharpness: Select from 6 options of Sharp, Sharpest, Auto, Softest, Soft and Normal. You may adjust the above options according to your preference.
5. Info: Prompt the current size for PC input definition (only the definition that can be shown by this device).
6. Color Temp.: There are four options of colour temperature provided for users - Warm, Normal, Cold and user. You can select the three colour temperatures of Warm, Normal and Cold, or manually adjust red, green or blue in the user setting (you can only adjust red, green and blue in the user setting).
7. Reset to default: It is used to reset the picture settings to the factory default mode.

When the input source is in **TV/Video/S-Video** mode, you can select Brightness, Contrast, Color, Sharpness, Tint, Dyn. skin tone, Temperature and Reset to default respectively; shown in the figure below:



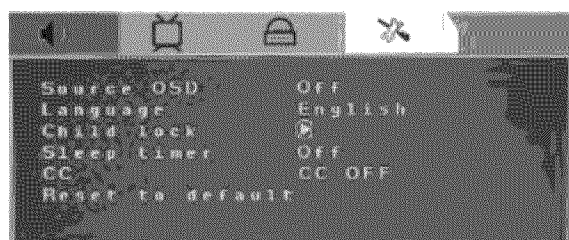
When the input source is in **Component** mode, you can select Brightness, Contrast, Video noise, Color, Sharpness, Tint, Temperature and Reset to default respectively; shown in the figure below:



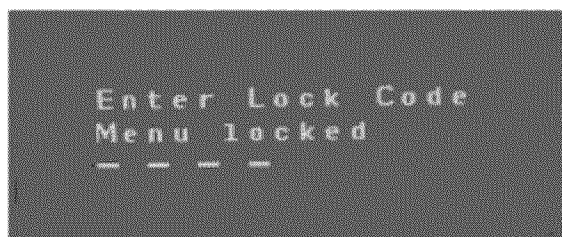
1. Brightness and Contrast: The range can be adjusted from 0~100; use Brightness and Contrast options to adjust the brightness of picture.
2. Video noise: There are two options, Phase and Clock, which can be adjusted from -50 to +50.
3. Color: The range can be adjusted from 0~100; use this option to adjust the colour saturation of picture.
4. Sharpness: Select from six options of Normal, Softest, Soft, Auto, Sharp and Sharpest. You can adjust the sharpness of picture using any option above.
5. Tint: The range can be adjusted from R50~G50; use this option to adjust the colour of picture.
6. Temperature.: There are three options of colour temperature provided for users-warm, normal and cold.
7. Reset to default: It is used to reset the picture setting to the factory default mode.

Special Menu Options

When the input source is in TV, Video or S-Video mode, you can select Source OSD, Language, Child lock, Sleep timer, CC Mode and Reset to default; shown in the figure below:

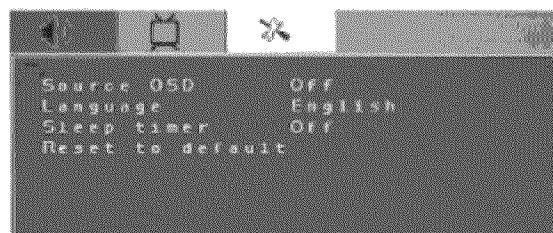


1. Current Source OSD setting: When OSD is set to ON, the left upper corner of the display will show the input source or the TV channel number; when OSD is set to OFF, the input source or the TV channel number will disappear.
2. OSD language setting: There are six language options provided - English, French, German, Spanish, Portuguese and Traditional Chinese.
3. Child Lock Setup;



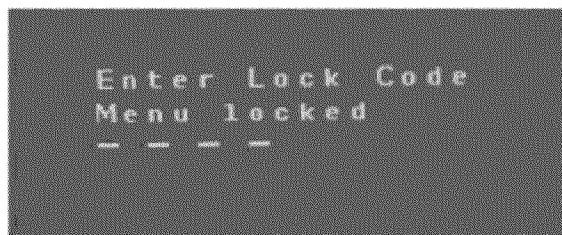
- (1). Only when the Child Lock is ON, and the Channelock will be enabled; when the Child Lock Setup is OFF, and the Channelock is disabled.
- (2). Lock code: V-Chip password can be set up when the code is locked. Enter the 4-digit password which you choose! The factory default password is 0000.
4. Sleep Timer: Set the sleeping timer and the alert function which indicates the time left.
5. Closed Caption (CC) setting: Select CC1~CC4, TXT1~TXT4 or OFF.
6. Reset to default: It is used to reset the OSD settings.
7. Note: If you ever forget your password, key in '3', '4', '4', '8' on the remote control. □□

When the input source is in PC (only for 15) or Component mode, you can select Source OSD, Language, Sleep timers and Reset to default; shown in the figure below:



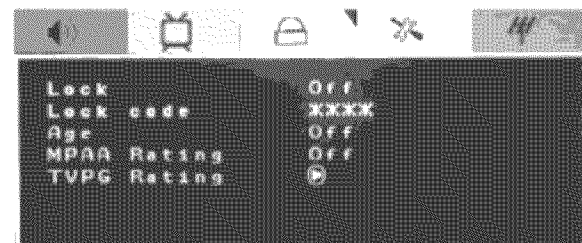
Source OSD, Language, Sleep timer and Reset to default options are operated similarly as the above instructions!

Child Lock



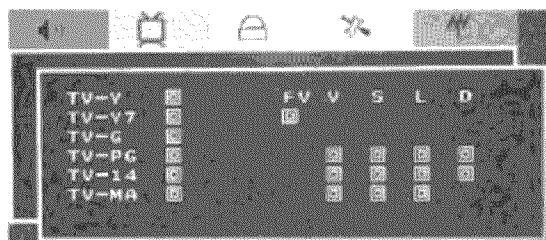
When you enter the Child Lock setting, a message on the display will prompt you to enter password, shown in the figure below.

You can enter the Child Lock setting to set up the V-Chip level when you enter the correct password:



1. Age: it may be set to Child, Youth, Youth Adult, Adult only, Custom or Off; when you select Custom, it can be set according to your preference.

2. MPA Rating: Select the movie ratings from low to high (alert) - G, PG, PG-13, R, NC-17, X and Off.
3. TV PG Rating: Shown in the figure below:

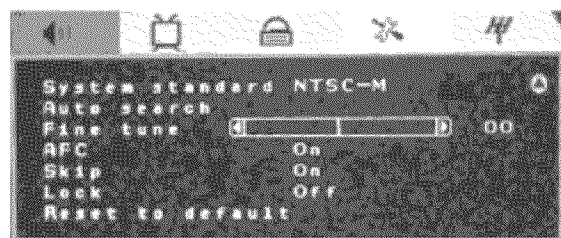
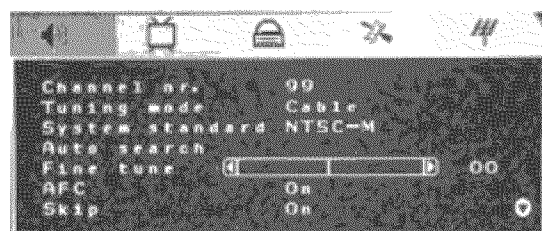


The empty box refers to unlocked; the solid box refers to locked.

4. Reset to default: Reset to the factory default value.

Channel Menu Options

The following menu appears only in the TV mode.



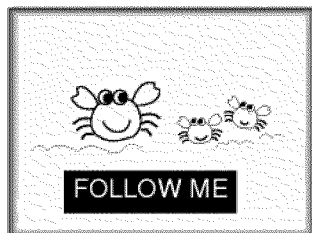
1. Channel nr: Shows the current channel number.
Channel tuning method: Select "Channel nr", press 100 number button, it will show "--", "---", "-" ("-" stands for one digital channel, "--" two digital channel, "---" three digital channel), then input the channel number you want.
2. Tuning mode: Select the mode of TV signal - Cable\HRC Cable\IRC Cable\ Broadcast.
3. System standard: NTSC-M.
4. Auto search: Select "Auto Search" to search all signaled channel; when the searching is complete, it stays at the first channel with signal and all channels that have been located are stored. If you would like to stop "Auto Search" during the process, simply by pressing the function button.
5. Fine tune: NTSC-M is seldomly used.
6. AFC can be set to ON or OFF. When it is set to ON, the TV will search the TV signal automatically; when there is any offset in the signal, it will automatically adjust the channel to the correct position.
7. Skip can be set to ON or OFF. When it is set to ON, a channel can be skipped by pressing the switching button on the remote control or on the front panel.
8. Lock can be set to on or off, when it is set to on, the current channel is locked.
9. Reset to default: Reset to the factory default value.

Special Menu Options

Closed Captions

Closed captioning is a process which converts the audio portion of a television program into written words which then appear as subtitles on the television screen. Closed captions allow viewers to read the dialogue and narration of television programs.

Using Closed Captions



Captions are the subtitles of the dialogue and narration of television programs. For prerecorded programs, program dialogue can be arranged into captions in advance. It's possible to caption a live program by using a process called real-time captioning, which creates captions instantly. Real-time captioning is normally done by professional reporters using a machine shorthand system and computer for translation into English.

Captioning is an effective system for the hearing-impaired, and it can also aid in teaching language skills.

- The picture at left shows a typical caption.

Caption Tips

- Not all TV broadcasts include closed caption signals.
- Sometimes TV stations broadcast four different caption signals on the same channel. By selecting **From CC 1 to CC 4**, you can choose which signal you view. **CC 1** is usually the signal with the captions, while **Another mode** might show demonstration or programming information.
- Your TV might not receive caption signals normally in the following situations.

1. Poor reception conditions are encountered:



- **IGNITION:**
Picture may flutter, drift, suffer from black spots, or horizontal streaking. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.



- **GHOSTS:**
Ghosts are caused when the TV signal splits and follows two paths. One is the direct path and the other is reflected off tall buildings, hills or other objects. Changing the direction or position of the antenna may improve reception.



- **SNOW:**
If your receiver is located at the weak, fringe area of a TV signal, your picture may be marred by small dots. It may be necessary to install a special antenna to improve the picture.

2. An old, bad, or illegally recorded tape is being played.
3. Strong, random signals from a car or airplane interfere with the TV signal.
4. The signal from the antenna is weak.
5. The program wasn't captioned when it was produced, transmitted, or taped.

Maintenance

- Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have your new TV. Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth.
Please be sure not to use a wet cloth.

Extended Absence



If you leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

Product Specifications

Power Requirement	Z15LCD1* : AC100-120V~ 50/60Hz 1.0A Z20LCD1* : AC100-120V~ 50/60Hz 1.2A
Television System	NTSC
Television Channel	VHF : 2 ~ 13, UHF : 14 ~ 69, Cable : 01 ~ 125
Television Screen	LCD Panel
External Antenna Impedance	75 Ω
Audio Output	Z15LCD1* : 2W+2W Z20LCD1* : 2W+2W

Troubleshooting Checklist

The operation does not work normally.	
The remote control doesn't work	<ul style="list-style-type: none"> • Check to see if there is any object between the product and the remote control causing obstruction. • Are batteries installed with correct polarity (+ to +, - to -)? • Correct remote operating mode set: TV, VCR etc.? • Install new batteries.
Power is suddenly turned off	<ul style="list-style-type: none"> • Is the sleep timer set? • Check the power control settings. Power interrupted • No broadcast on station tuned with Auto off activated.

The video function does not work.	
No picture & No sound	<ul style="list-style-type: none"> • Check whether the product is turned on. • Try another channel. The problem may be with the broadcast. • Is the power cord inserted into wall power outlet? • Check your antenna direction and/or location. • Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.
Picture appears slowly after switching on	<ul style="list-style-type: none"> • This is normal, the image is muted during the product startup process. Please contact your service center, if the picture has not appeared after five minutes.
No or poor color or poor picture	<ul style="list-style-type: none"> • Adjust Color in menu option. • Keep a sufficient distance between the product and the VCR. • Try another channel. The problem may be with the broadcast. • Are the video cables installed properly? • Activate any function to restore the brightness of the picture.
Horizontal/ vertical bars or picture shaking	<ul style="list-style-type: none"> • Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	<ul style="list-style-type: none"> • Station or cable product experiencing problems, tune to another station. • Station signal is weak, reorient antenna to receive weaker station. • Check for sources of possible interference.
Lines or streaks in pictures	<ul style="list-style-type: none"> • Check antenna (Change the direction of the antenna).

The audio function does not work.	
Picture OK & No sound	<ul style="list-style-type: none"> • Press the VOL (or Volume) button. • Sound muted? Press MUTE button. • Try another channel. The problem may be with the broadcast. • Are the audio cables installed properly?
No output from one of the speakers	<ul style="list-style-type: none"> • Adjust Balance in menu option.
Unusual sound from inside the product	<ul style="list-style-type: none"> • A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.

There is a problem in PC mode. (Only PC mode applied)	
The signal is out of range.	<ul style="list-style-type: none"> • Adjust resolution, horizontal frequency, or vertical frequency. • Check the input source.
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	<ul style="list-style-type: none"> • Work the auto adjust or adjust clock , phase in video noise,or horizontal vertical in postion.(option)
Screen color is unstable or single color	<ul style="list-style-type: none"> • Check the signal cable. • Reinstall the PC video card.



As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Note

Note

**ZENITH ELECTRONICS CORPORATION
LCD-TV LIMITED WARRANTY – USA**



Zenith will repair or replace your product, at Zenith's option, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original purchase of the product. This limited warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

<u>WARRANTY PERIOD:</u> LABOR: 1 Year from the Date of Purchase. PARTS: 1 Year from the Date of Purchase. * Repaired or replaced products are warranted for the remaining portion of the original warranty period.	<u>HOW SERVICE IS HANDLED:</u> Factory Service. Call 1-877-9Zenith (1-877-993-6484) (24 hours a day, 365 days per year) for instructions on getting the defective unit repaired or replaced. Please retain dated sales receipt and your box to return the unit to Zenith for replacement. Shipping charges both ways will be paid by Zenith during the Warranty Period. Visit our website at http://www.zenithservice.com
--	--

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. ZENITH WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, LOST OR CORRUPTED PROGRAMMING OR DATA, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

THIS LIMITED WARRANTY DOES NOT APPLY TO:

- Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and
- Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, signal reception or input, operating and software protocols adopted after date of manufacture or for outside the US, institutional or commercial use, or other causes not arising out of defect in material or workmanship.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

CUSTOMER INTERACTIVE CENTER NUMBERS:

For Where to buy, Product Assistance, or Customer Assistance	Call 1-877-9Zenith (1-877-993-6484) (24 hours a day, 365 days per year) and select appropriate options from the menu. Or visit our website at http://www.zenithservice.com
---	--

LG Customer Interactive Center
201 James Record Road
Huntsville, Alabama 35824
<http://www.zenithservice.com>

Printed in China



Q41T1501689 1A