

LCD TV

OWNER'S MANUAL

MODELS: 15LC1R * 20LC1R *



Please read this manual carefully before operating your set.

Retain it for future reference.

Record model number and serial number of the set. See the label attached on the back cover and quote this information to your dealer when you require service.

P/NO: 38289U0559B (0512-REV00)

Printed in Korea

Safety Instructions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE

THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR

BACK). NO USER-SERVICEABLE PARTS IN SIDE. REFER SERVICING TO

QUALIFIED SERVICE PERSONNEL.

Cleaning

Unplug this television receiver from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.

Power Supply

This television receiver should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your television dealer or local power company.

Installation

Do not use this television receiver near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

Do not place this television receiver on an unstable cart, stand, or table. The television receiver may fall, causing serious injury to a child or an adult, and serious damage to the appliance.

Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver. Wall or shelf mounting should follow the manufacturer's instructions and should use a mounting kit approved by the manufacturer.

Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver, and to protect it from overheating. These openings must never be blocked by placing the television receiver on a bed, sofa, rug, or other similar surface. This television receiver should not be placed in a builtin installation such as a bookcase unless proper ventilation is provided.

not be blocked or covered. The openings should

It is recommended not to operate this unit near speakers or big metallic furnitures in order to keep their magnetism from disturbing colors purity (uniformity) on the screen.

Use

Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be abused by persons walking on it.

Do not overload wall outlets and extension cords as this can result in fire or electric shock.

Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.

Never spill liquid of any kind on the television receiver.

Service

Do not attempt to service this television yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.

Writing Model And Serial Numbers

The serial number and model number are found on the back of this unit. The serial number is unique to this unit. You should record requested information here and retain this guide as a permanent record of your purchase. Please retain your purchase receipt as your proof of purchase. Date of Purchase

Dealer Purchased from

Dealer Address

Dealer Phone No.

Model No.

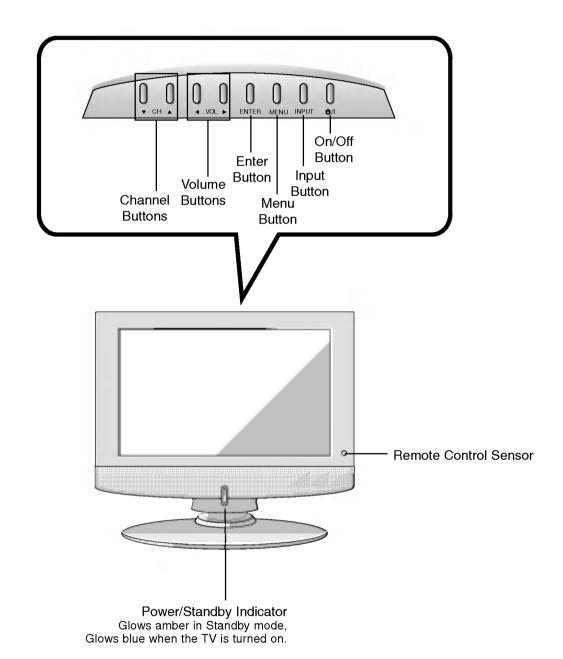
Serial No.

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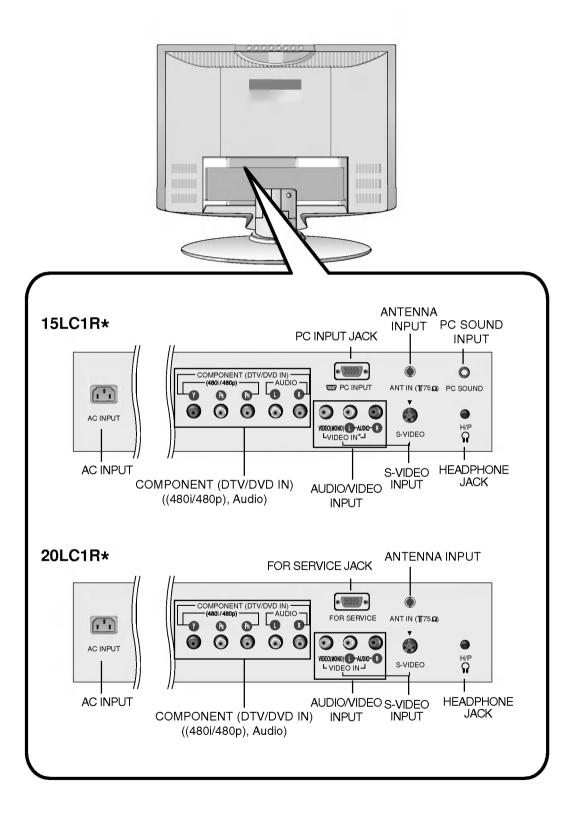
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Introduction

Controls

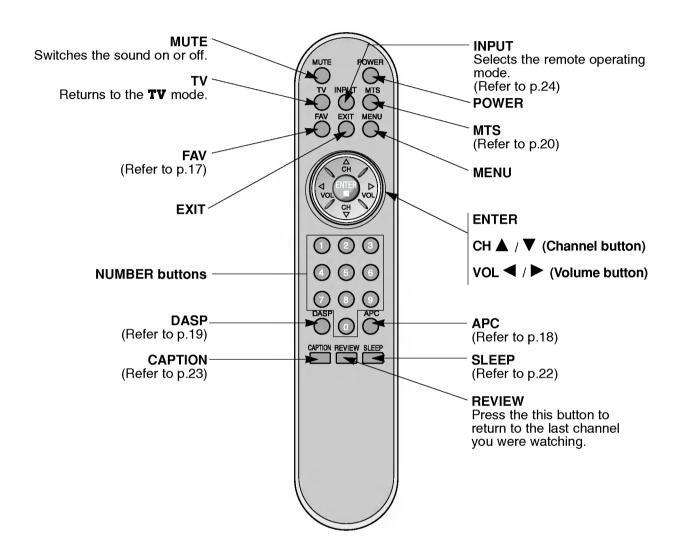


Connection Options

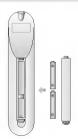


Remote Control Key Functions

- 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 Remote Control Tie Holder **Power Cord** D-sub cable (PC) **AAA** Batteries - Arrange the wires (15LC1R*) with the tie Holder. 2-TV 1-TV Bracket, 2-TV Bracket, Audio cable (PC) **Bracket Bolts** 2-Wall Bracket Installation guide 2-Wall Bracket (15LC1R*) (20LC1R*) (15LC1R*) Rack 4-Anchor 4-Screws for wall 2-Ring spacers Fixing screw mount rack (20LC1R* only)

Kensington Security System

- The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.
- For the detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.
 For further information, contact http://www.kensington.com, the internet homepage of the Kensington company.
 Kensington sells security systems for expensive electronic

NOTE

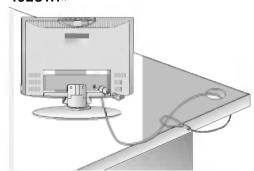
- The Kensington Security System is an optional accessory.

equipment such as notebook PCs and LCD projectors.

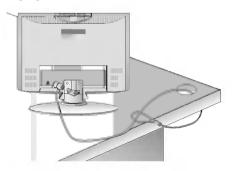
NOTES

- a. 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.
- b. 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.
- c. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time.

15LC1R*



20LC1R*

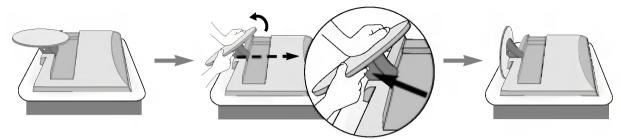


Installation Instruction

Unfolding the stand base

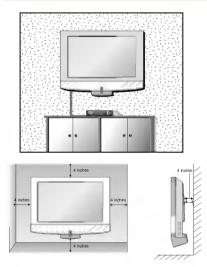
- 1. Place the set with its front facing downward on a cushion or soft cloth.
- 2. Hold down the release button inside the stand and strongly pull out the stand with your two hands.

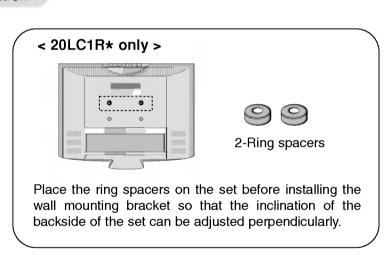
Note: Here shown may be somewhat different from your set.



The stand won't move if you don't press release button.

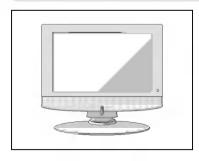
Wall Mount: Horizontal installation

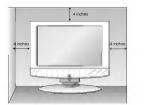




For proper ventilation, allow a clearance of 4" on each side and from the wall. Detailed installation instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.

Desktop Pedestal Installation







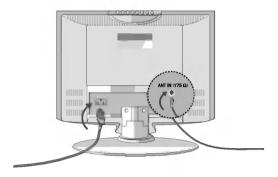
For proper ventilation, allow a clearance of 4" on each side and from the wall.

Installation Instruction Continued

Connection of TV

- 1. Connect the aerial cable to the socket marked $\mathbb{T}75~\Omega$ on the back. 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.

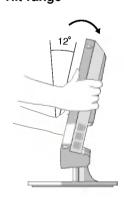
Note: Here shown may be somewhat different from your set.

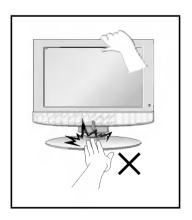


Positioning your display

Adjust the position of the panel in various ways for maximum comfort.

Tilt range





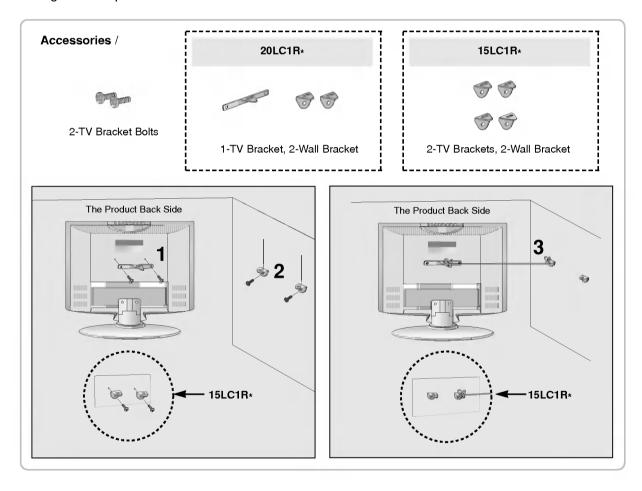
Be careful that your hands are not pressed down when tilting the screen.

Please set it up carefully so the product doesn't fall over

Set it up close to the wall so the product doesn't fall over when it is pushed backwards.

The instructions shown below is a safer way to set up the product, which is to fix it on the wall so the product doesn't fall over when it is pulled in the forward direction. It will prevent the product from falling forward and hurting people. It will also prevent the product from damage caused by fall. Please make sure that children don't climb on or hang from the product.





- 1. Use the bracket and the bolt to fix the product to the wall as shown in the picture.
- 2. Secure the bracket with the bolt (not provided as parts of the product, must purchase separately) on the wall.
- **3.** Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

Notes

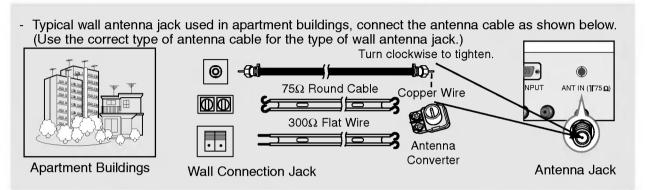
- When moving the product to another place undo the ropes first.
- Use a product holder or a cabinet that is big and strong enough for the size and weight of the product.
- To use the product safely make sure that the height of the bracket that is mounted on the wall is same as that of the product.

External Equipment Connections

Antenna Connection

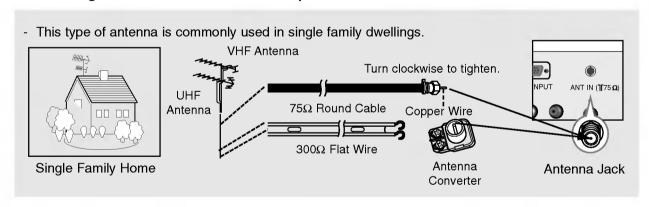
- For optimum picture quality, adjust antenna direction.

Connecting to an Inside Antenna Setup

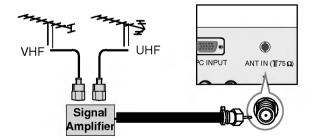


- If you have a 75Ω round cable, insert the bronze wire and then tighten the connection nut. If you have a 300Ω flat wire, connect the twisted wire to the antenna converter and then connect the converter to the antenna jack on the TV.
- If using 75 Ω round cable, do not bend the bronze wire. It may cause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

Connecting to an Outdoor Antenna Setup



- 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

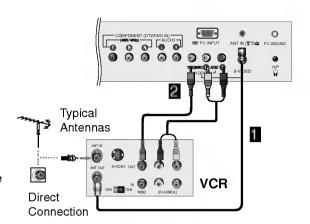
 In Video mode, TV automatically reverts to TV mode if the TV buttons are pressed.

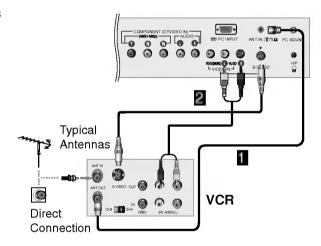
Connection 1

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

Connection 2

- 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).
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Use the INPUT button on the remote control to select Video. (If connected to S-VIDEO on rear panel, select the Video external input source.)





Cable TV Setup

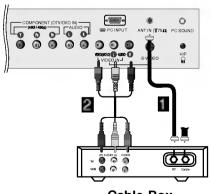
- After subscribing to a local cable TV service and installing a converter, you can watch cable TV programming.
- For further cable TV information, contact a local cable service provider.

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

- 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 **INPUT** button on the remote control to select **Video**.
- 3. Select channels with the cable box remote control.



Cable Box

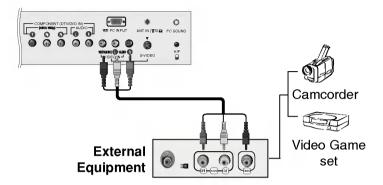
External A/V Source Setup

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.
- Use the **INPUT** button on the remote control to select **Video**.
- Operate the corresponding external equipment. Refer to external equipment operating guide.



DVD Setup

Connections

- 1. Connect the DVD video outputs to the COMPONENT (Y, PB, PR) 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

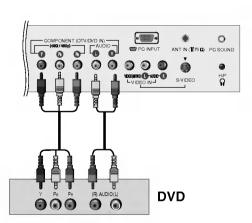
- 1. Turn on the DVD player, insert a DVD.
- 2. Use the **INPUT** button on the remote control to select **Component.**
- Refer to the DVD player's manual for operating instructions. (If connected to S-VIDEO on rear panel, select the Video external input source.)



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

Component ports of the TV	Υ	Рв	PR
Video output ports of DVD player	Y Y Y	Pb B-Y Cb PB	Pr R-Y Cr PR

Model	Signal	Component	RGB-DTV
15LC1R*	480i/480p	Yes	Yes
20LC1R*	480i/480p	Yes	No



DTV Setup

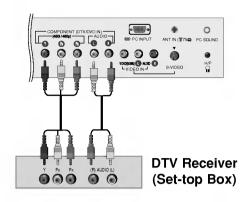
To watch digitally broadcast programs, purchase and connect a digital set-top box.

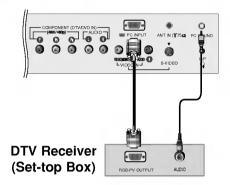
Connections

Connect the digital set-top box video outputs to the COM-PONENT (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.)

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 INPUT button on the remote control to select Component or RGB-DTV (15LC1R*).





PC Setup (15LC1R*only)

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

Connections

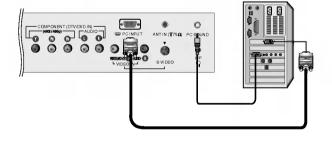
- 1. Set the monitor output resolution on the PC before connecting to the TV.
- 2. Connect the TV to the PC with the PC cable.
- 3. Connect the PC audio output to the TV's PC SOUND input.

Viewing Setup

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

Monitor Display Specifications

MODE	Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
VGA	640x480	31.4	60
SVGA	800x600 800x600	35.1 37.8	56 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 "**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.

Operation

TV Operation Overview

- 1. First, make all equipment connections. Plug the AC Adapter into the TV, then plug the AC Adapter into a power outlet. At this time, the TV is switched to standby mode.
 - In standby mode, press the POWER, TV, CH (▲,▼), INPUT or number button on the remote control or ON/OFF, CH (▲,▼), INPUT button located on the TV to turn the TV on.
- 2. Select the viewing source by pressing INPUT.
 - Note: See page 16 if you have not auto programmed the TV to receive channels in your local broadcast area.
- After viewing, press the **POWER** button on the remote control or **ON/OFF** located on the TV. The TV reverts to standby mode.

NOTE

• If you want to turn the TV off, press the on/off button located on the TV. If you intend to be away on vacation, disconnect the power plug from the wall power outlet.

Menu Language Selection

- The menus can be shown on the screen in the selected language. First select your language.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **Language**.
- Press the ▶ button and then use ▲ / ▼ button to select your desired language.
 From this point on, the on-screen menus will be shown in the language of your choice.
- 4. Press the ENTER button to save.

Channel Menu Options

Memorizing the Channels with Auto Program

- For Auto program to work, the programming source must be connected to the TV and the TV must be receiving programming signals either over-the-air or from a cable-type service provider.
- Press the MENU button and then use ▲ / ▼ button to select the CHANNEL menu.
- Press the button and then use ▲ / ▼ button to select Auto Program.
- 3. Press the ▶ button to begin the channel search.
 - Wait for auto program to complete the channel search cycle before choosing a channel. The TV scans for over-the-air channels and then channels provided by a cable service.



NOTES

- When the channel search is complete, use the ▲ / ▼ buttons to review the memorized channels.
- If you press the MENU or EXIT button in auto programming, the function will stop and only channels programming up to that time will remain.
- Auto program function can memorize only the channels which are being received at that time.

Add/Delete Channels with Manual Program

- You can manually include or erase individual channels.
- Press the MENU button and then use ▲ / ▼ button to select the CHANNEL menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **Manual program**.
- 3. Press the ▶ button and then use ◀ / ▶ button to select a channel you want to add to memory or erase.
- 4. Press the ▼ button and then use ◀ / ▶ button to select Memory (add) or Erase (delete).
- 5. Press the **ENTER** button to save. The current channel is added to Memory or Erased from the channel list.

The current channel number is displayed.



Adjust frequency with Manual Program

- Press the MENU button and then use ▲ / ▼ button to select the CHANNEL menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **Manual program**.
- 3. Press the ▼ button to select **Fine** and then use ◀ / ▶ button to adjust frequency from -50 to 50.
- 4. Press the ENTER button to save.



The current frequency is displayed.

Favorite Channels Setup

- Favorite Channel lets you quickly tune in up to 8 channels of your choice without having to wait for the TV to scan through all the in-between channels.



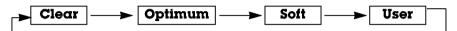


- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **CHANNEL** menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **Favorite channel**.
- 3. Press the ▶ button and then use ▲ / ▼ button to select the first favorite channel position.
- 4. Use the ◀ / ▶ button to set the desired channel number for first favorite channel.
- 5. Repeat steps 3 to 4 to memorize other channels.
- 6. Press the ENTER button to save.
 - To tune to a favorite channel, press the **FAV** button repeatedly. The 8 favorite channels appear on the screen one-by-one.

Picture Menu Options

APC (Auto Picture Control)

- This function adjusts the TV for the best picture appearance.
- 1. Press the APC button repeatedly to select the picture appearance setup option as shown below.



- You can also adjust APC in the PICTURE menu.
- Clear, Optimum and Soft are preset for good picture quality at the factory and cannot be changed.

ACC (Auto Color Control)

- Selecting a factory setting colour set.
- Press the MENU button and then use ▲ / ▼ button to select the PICTURE menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **ACC**.
- 3. Press the ▶ button and then use ▲ / ▼ button to select User.
- 4. Press the ▶ button and then ▲ / ▼ button to select a color setting on the ACC menu: Cool, Normal, Warm or User (Red, Green, Blue).
- 5. Press the **ENTER** button to save.



Manual Picture Control

- You can adjust picture contrast, brightness, color, sharpness and tint to the levels you prefer.
- Press the MENU button and then use ▲ / ▼ button to select the PICTURE menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **APC**.
- 3. Press the ▶ button and then use ▲ / ▼ button to select **User** and then press the ◀ button.
- 4. Use ▲ / ▼ button to select the desired picture option (Contrast, Brightness, Color, Sharpness, Tint).
- 5. Use the ◀ / ▶ button to make appropriate adjustments.
 - Contrast, Brightness, Color, and Sharpness are adjustable from 0 to 100.
 - Tint is adjustable from R 50 to G 50.
- 6. Press the **ENTER** button to save.



Sound Menu Options

DASP(Digital Audio Sound Processing)

- This function lets you enjoy the best sound without any special adjustment because the TV selects the appropriate sound option based on the program content.
- 1. Use the **DASP** button to select the appropriate sound setup as shown below.



You can also adjust DASP in the SOUND menu.

Equalizer Adjustments

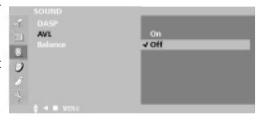




- 1. Press the **MENU** button and then use **▲** / **▼** button to select the **SOUND** menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **DASP**.
- 3. Press the ▶ button and then use ▲ / ▼ button to select **User**.
- 4. Press the ▶ button and then use ◀ / ▶ button to select the band you want to adjust. Then, use ▲ / ▼ button to adjust the band level.
- 5. Press the **ENTER** button to save.

AVL (Auto Volume Leveler)

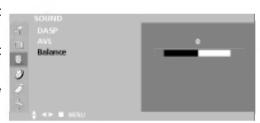
- AVL maintains an equal volume level automatically even if the channel is changed.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SOUND** menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **AVL**
- 3. Press the ▶ button and then use ▲ / ▼ button to to select On or Off.
- 4. Press the ENTER button to save.



Sound Menu Options continued

Sound Balance

- Press the MENU button and then use ▲ / ▼ button to select the SOUND menu.
- 2. Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Balance**.
- 3. Press the ▶ button and then use ◀ / ▶ button to adjust the sound balance.
 - Balance is adjustable from Left 50 to Right 50.
- 4. Press the ENTER button to save.



Stereo/SAP Broadcasts Setup

- The TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program, if the broadcaster transmits an additional sound signal as well as the original one.
- Mono: The primary language is heard from left and right speakers. Signal mode is mono.
- Stereo: The primary language is heard from left and right speakers. Signal mode is stereo.
- SAP: The secondary language is heard from left and right speakers.
- 1. Press the MTS button repeatedly.



- Select mono sound mode if the signal is not clear or in poor signal reception areas.
- Stereo, SAP mode are available only if included on the broadcast signal.

Timer Menu Options

Clock Setup

- If the time on the clock is incorrect, reset the clock manually.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **TIMER** menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select Clock.
- Press the button and then use ▲ / ▼ button to set the hour.
- 4. Press the ▶ button and then use ▲ / ▼ button to set the minutes.
- 5. Press the **ENTER** button to save.



On/Off Timer Setup

- Timer function operates only if current time is set.
- Off-Timer function overrides On-Timer function if they are set to the same time.
- The TV must be in standby mode for the On-Timer to work.
- If you don't press any button within 2 hours after turning on the TV with the On-Timer function, the TV will automatically revert to standby mode.
- Press the MENU button and then use ▲ / ▼ button to select the TIMER menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **Off timer** or **On timer**.
- 3. Press the ▶ button and then use ▲ / ▼ button to set the hour.
- 4. Press the ▶ button and then use ▲ / ▼ button to set the minutes.
- 5. For On timer function only:

Press the ▶ button and then use ▲ / ▼ button to set the channel at turn-on. Then, press the ▶ button and then use ▲ / ▼ button to set the turn-on sound level.

- 6. Press the button and then use ▲ / ▼ button to select **On** or **Off**.
 - Off: Off timer/On timer will not work.
 On: Off timer/On timer are active.
- 7. Press the **ENTER** button to save.



Timer Menu Options continued

Sleep Timer Setup

- The Sleep Timer turns the TV off at a preset time.
- 1. Press the **SLEEP** button repeatedly to select the number of minutes. First the ' \mathscr{O}^z --- Min.' option appears on the screen, followed by the following sleep timer options: 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
- 2. When the number of minutes you want is displayed on the screen, press the **ENTER** button. The timer begins to count down from the number of minutes selected.
- 3. To check the remaining minutes before the TV turns off, press the **SLEEP** button once.
- 4. To cancel the Sleep Timer, press the **SLEEP** button repeatedly until ' @z --- Min.' appears.

Auto off

 If Auto off is active and there is no input signal, the TV switches to Standby mode automatically after 10 minutes.

1. Press the **menu** button and then use ▲ / ▼ button to select the **TIMER** menu.

- 2. Press the ▶ button and then use ▲ / ▼ button to select **Auto off**.
- Press the button and then use ▲ / ▼ button to select On or Off
- 4. Press the **ENTER** button to save.



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. Its 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 paired, and it can also aid in

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 Mode 1 to Mode 2, you can choose which signal you view. Mode 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.
- Strong, random signals from a car or airplane interfere with the TV signal.
- 4. The signal from the antenna is weak.
- The program wasn't captioned when it was produced, transmitted, or taped.

Caption

1. Use the **CAPTION** button to select your caption selection as shown below.



• You can also adjust Caption in the SPECIAL menu.

Special Menu Options continued

Select Mode

- Inputs can be set for TV, Video or RGB-PC mode. Video mode is used when a video cassette recorder (VCR), or other equipment is connected to the set.
- Press the MENU button and then ▲ / ▼ button to select the SPECIAL menu.
- 2. Press the ▶ button and then ▲ / ▼ button to select **Input**.
- Press the ▶ button and then ▲ / ▼ button to select TV,
 Video, Component, RGB-DTV or RGB-PC.
 - Video: VCR connected to the VIDEO IN socket of the set.
 - **Component**: DVD connected to the COMPONENT sockets on the back of set.
 - **RGB-DTV**: SET TOP connected to the PC INPUT and PC SOUND socket of the set. (15LC1R*)
 - RGB-PC: PERSONAL COMPUTER connected to the PC socket of the set. (15LC1R*)
- 4. Press the ENTER button to save.



Key lock

- The TV can be set up so that it can only be used with the remote control.
- This feature can prevent unauthorized viewing.
- Press the MENU button and then use ▲ / ▼ button to select the SPECIAL menu.
- Press the button and then use ▲ / ▼ button to select **Key lock**.
- 3. Press the ▶ button and then use ▲ / ▼ button to select **On** or **Off**.
- 4. Press the ENTER button to save.
 - In Key lock 'On', if the set is turned off, press the ON/OFF, CH ▲ / ▼, INPUT button on the set or POWER, CH ▲ / ▼, TV, INPUT or NUMBER button on the remote control.

Power indicator

- Use this function to set the power indicator on the front side of the product to **On** or **Off**. If you set **On** at any time, the power indicator will automatically be turned on. Although you select **Off**, set front light turns on for a moment when the set turns on.
- Press the MENU button and then use ▲ / ▼ button to select the SPECIAL menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **Power indicator**.
- 3. Press the ▶ button and then use ▲ / ▼ button to select **On** or **Off**.
- 4. Press the ENTER button to save.





Screen Menu Options (15LC1R* only)

- After setup, be sure to select RGB-PC source to see the PC image on TV screen.



- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select desired item.
- 3. Use the ◀ / ▶ button to make appropriate adjustments.
- H-position/V-position

Adjusts picture left/right and up/down.

The adjustment ranges of H-Position is 0~100.

(Based on the input mode, the adjustment range may change.)

Clock

Minimizes any vertical bars or stripes appearing on the screen background.

The adjustment range is 0~100. (Based on the input mode, the adjustment range may change.)

Phase

Remove any horizontal noise and clear up or sharpen the character images.

The range adjustment is 0~100. (Based on the input mode, the adjustment range may change.)

Auto-configure

Automatically adjusts the screen position, clock, and clock phase.

(The displayed image will disappear for a few seconds while Auto-configuration is in progress.)

Reset

Returns to the default settings programmed at the factory; default settings cannot be changed.

4. Press the **ENTER** button to save.

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	15LC1R* : AC100-240V~ 50/60Hz 0.8A 20LC1R* : AC100-240V~ 50/60Hz 1.2A
Power Consumption	15LC1R*: 40W 20LC1R*: 65W
Television System	NTSC, PAL-M/N
Television Channel	VHF : 2 ~ 13, UHF : 14 ~ 69, Cable : 01 ~ 135
Television Screen	LCD Panel
External Antenna Impedance	75 Ω
Audio Output	15LC1R*: 3W+3W 20LC1R*: 5W+5W

Troubleshooting Checklist

The operation does not work normally.		
The remote control doesn't work	 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	 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	 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	 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	 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	Check for local interference such as an electrical appliance or power tool.	
Poor reception on some channels	 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	Check antenna (Change the direction of the antenna).	

	The audio function does not work.
Picture OK & No sound	 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	Adjust Balance in menu option.
Unusual sound from inside the product	 A change in ambient humidity or temperature may result in ar 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.	 Adjust resolution, horizontal frequency, or vertical frequency. Check it whether the signal cable is connected or loose. Check the input source. 	
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	• Work the Auto configure or adjust clock, phase, or H/V position. (option)	
Screen color is unstable or single color	Check the signal cable. Reinstall the PC video card.	