



Colour Television OWNER'S MANUAL

**MODELS: RM-15LA70
RM-20LA70**

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.

Internet Home Page : <http://www.lge.com>

Safety Precautions

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 not be blocked or covered. The openings should 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.

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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Before operating the TV, please read this manual carefully.

INTRODUCTION

INSTALLATION

BASIC FEATURES

CLOCK/TIMERS

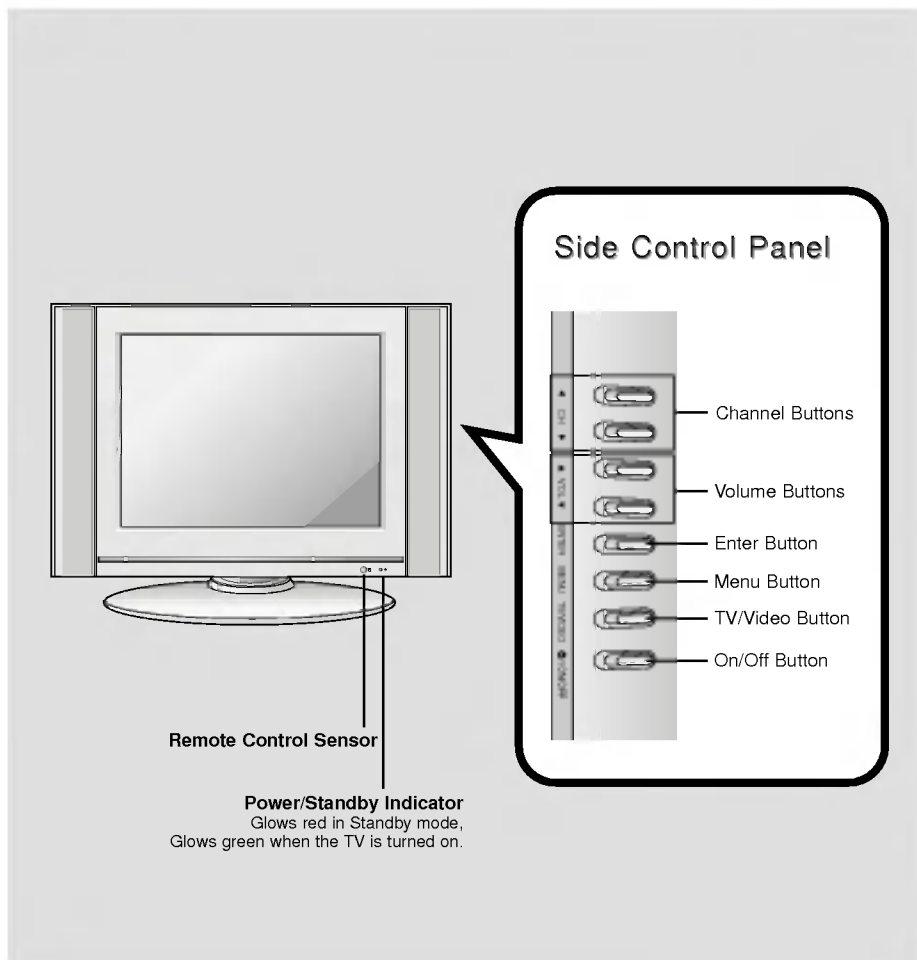
VIDEO/AUDIO

SPECIAL FEATURES

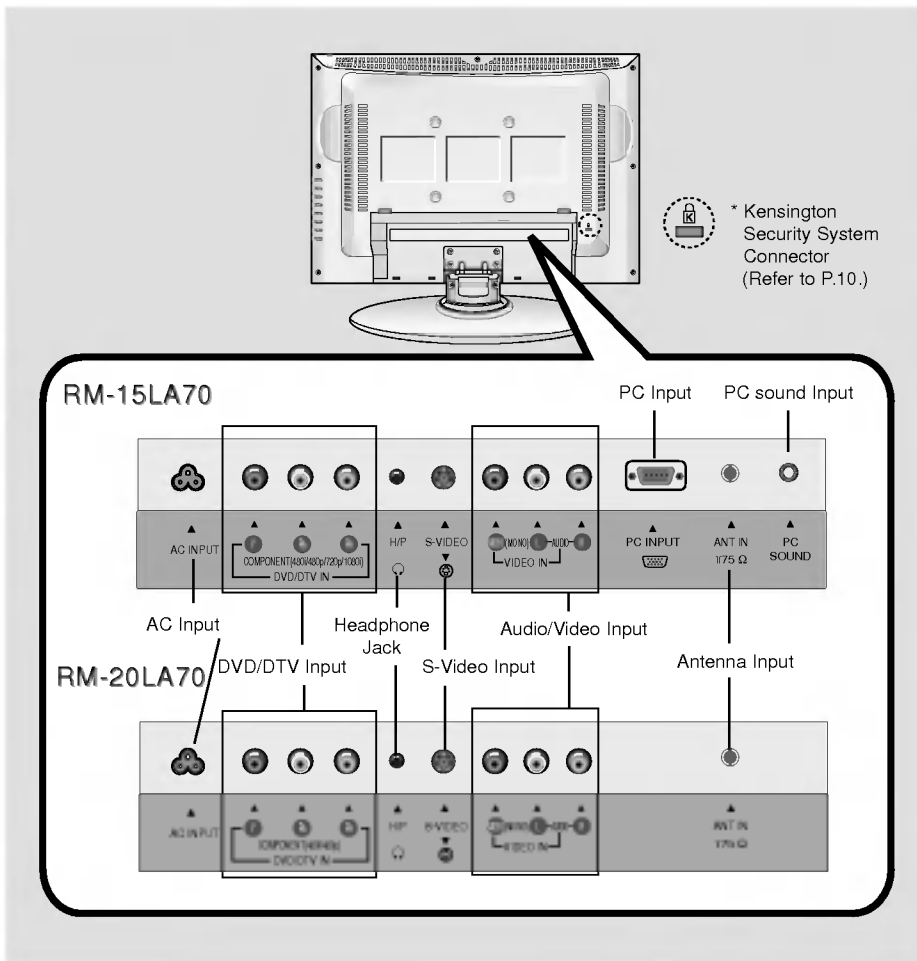
MISC.

Controls

Front of the TV



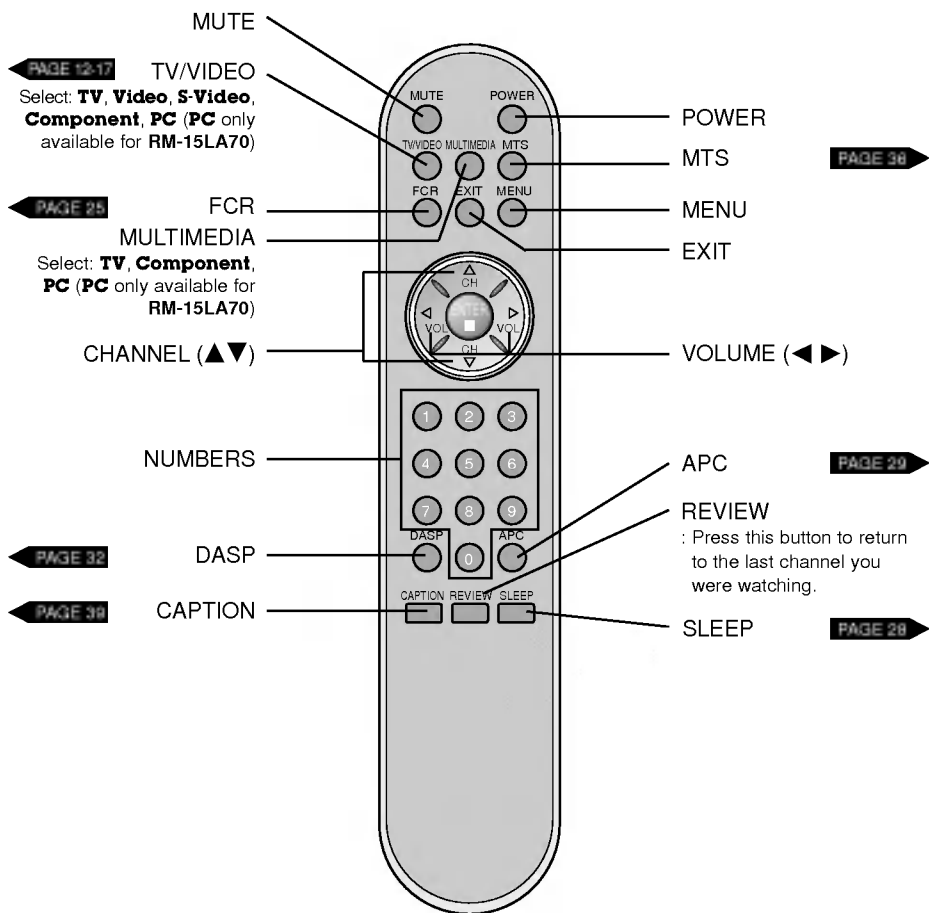
Back of the TV



- This manual mainly explains the features for the RM-15LA70.

Controls

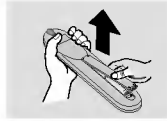
Remote Control Buttons



Remote Control: Installing Batteries/Operation

Installing Batteries

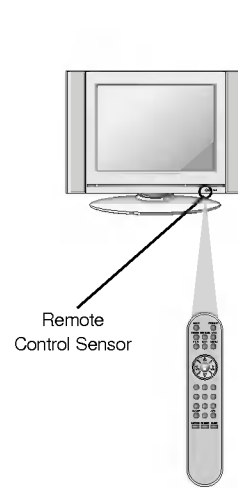
- 1** Pull the battery cover upward in the direction shown by the arrow and remove it.



- 2** Insert the batteries with correct polarity, match "+" and "-".



- 3** Replace the battery compartment cover.



- Install two AAA, 1.5V batteries. Don't mix used batteries with new batteries.
- Remove batteries when you won't use the remote control for a long time. Liquid leakage from batteries may damage the remote.

Notes For Using Remote Control

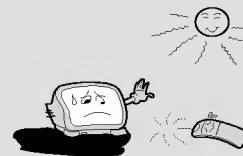
Make sure there are no objects between the remote control and its sensor.



Don't place the remote control near a heater or in a damp place. A strong impact on remote control may damage it.

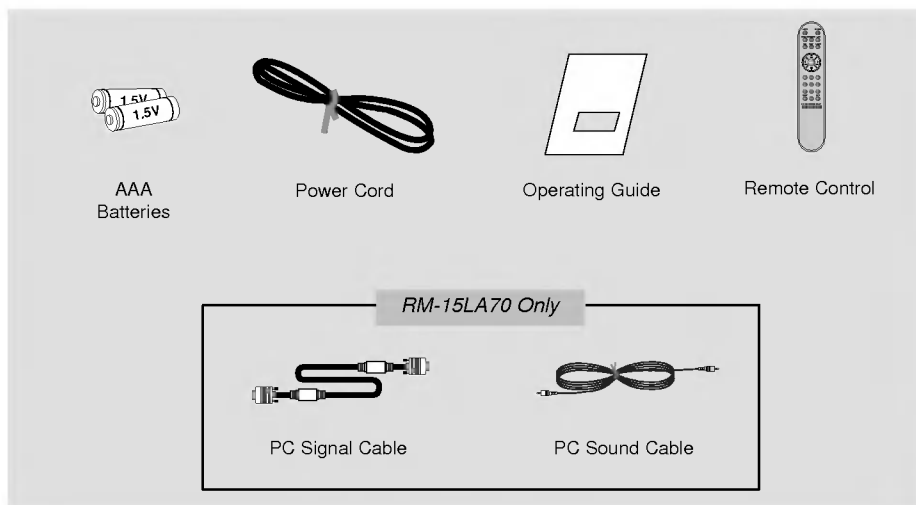


Signal from the remote control may be disturbed by sun light or other strong light. In this case, darken the room.



TV Overview

Accessories

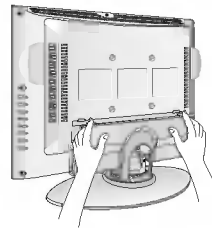


Notes

- If the TV feels cold to the touch, there may be a small “flicker” when turned on. This is normal, there is nothing wrong with TV.
- Some dot defects may appear on the screen, like red, green or blue spots. However, this will 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.

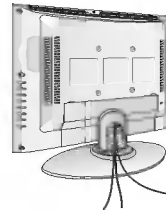
Rear A/V Cover

- * The connection panel is hidden behind the A/V cover.
- a. Remove the cover.
- b. Install wires as necessary.
- c. Reinstall the cover. Align the holes on the TV back panel with the two tabs on the rear A/V cover as shown.
- e. Close cover.



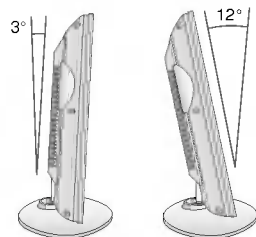
Wire Holders

- Thread, then pull the wires through the hole on the TV stand.



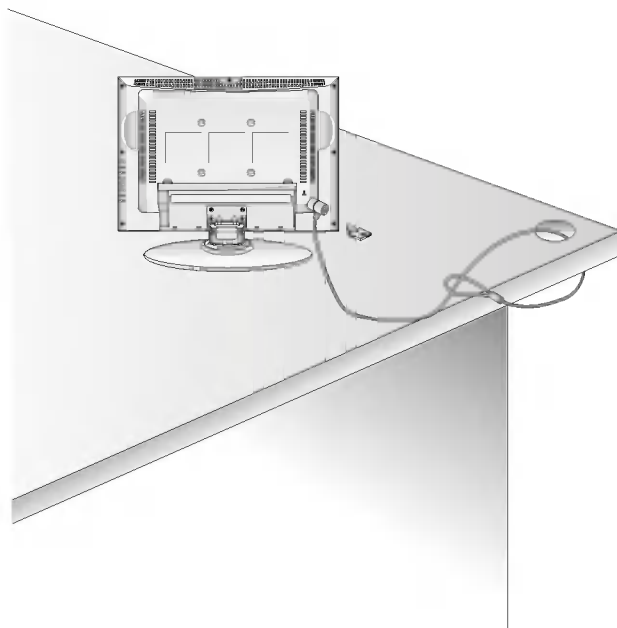
Adjusting the TV Viewing Angle

- You can adjust the angle of the TV between 3° and 12°.



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 equipment such as notebook PCs and LCD projectors.
- Note: The Kensington Security System is an optional accessory.

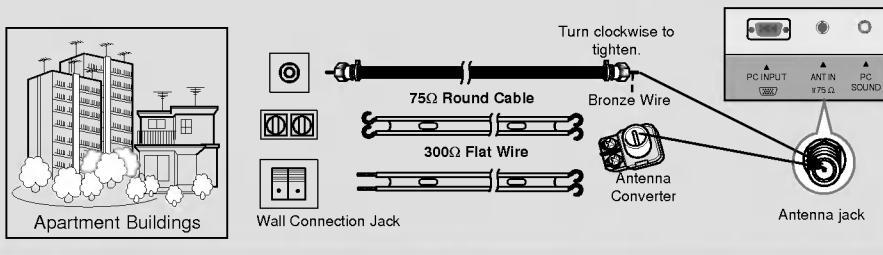


Antenna Connections

- For optimum picture quality, adjust antenna direction.

Connecting to an Inside Antenna Setup

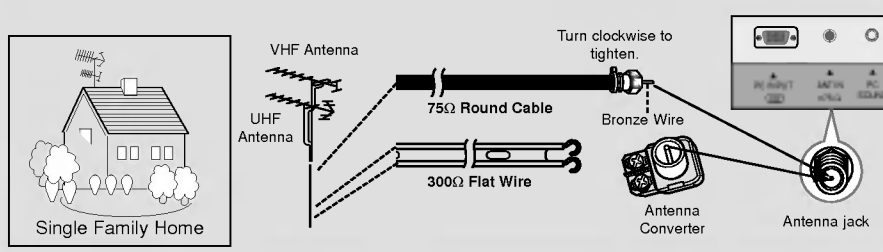
- Typical wall antenna jack used in apartment buildings, connect the antenna cable as shown below. (Use the correct type of antenna cable for the type of wall antenna jack.)



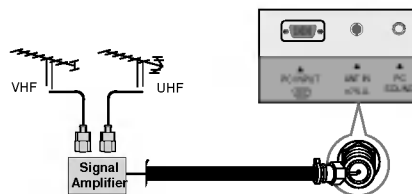
- If you have a 75Ω round cable, insert the bronze wire and then tighten the connection nut. If you have a 300Ω flat wire, connect the twisted wire to the antenna converter and then connect the converter to the antenna jack on the TV.
- When using 75Ω round cable, do not bend the bronze wire. Doing so 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 the antenna as shown to the right.
- If antenna is split for two TVs, use signal splitter for connection.

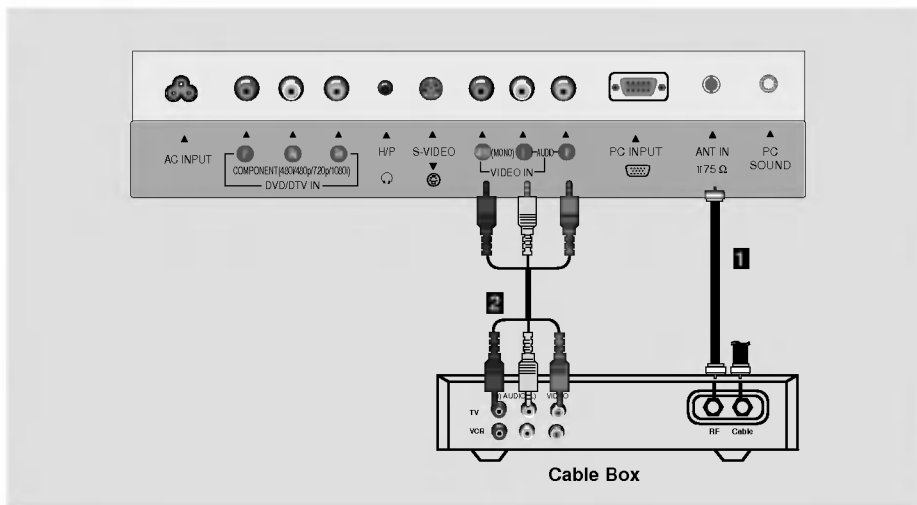


INSTALLATION

Antenna/Cable Connection and Viewing Setup

- After subscribing to a local cable TV service and installing a converter, you can watch cable TV programming.

Cable TV Connections



Connection 1

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

Connection 2

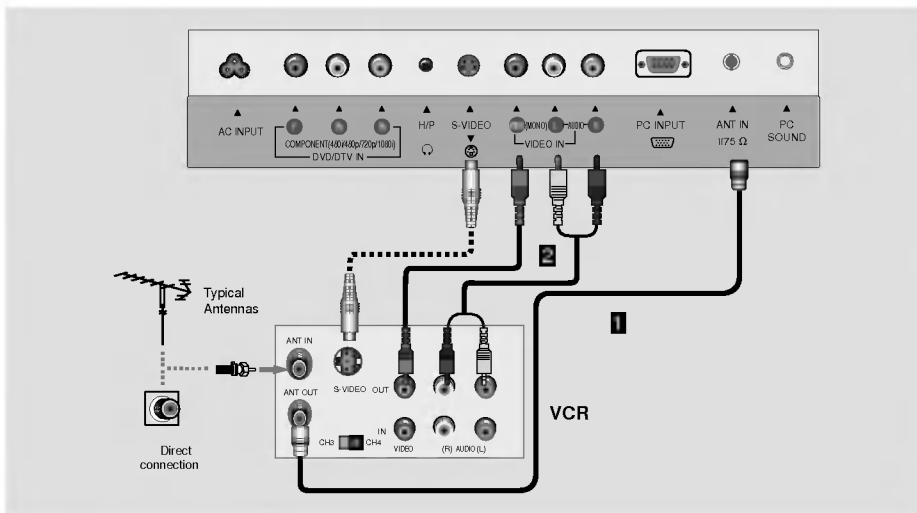
- Connect the audio/video output jacks on Cable Box to the corresponding input jacks on the TV. When connecting the TV to Cable Box, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
- Use the **TV/VIDEO** button on the remote control to select **Video**.
- Select channels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



- For further cable TV information, contact a local cable service provider.

VCR Connection and Viewing Setup

- See following pages to connect to other A/V external equipment to input jacks on the TV.



INSTALLATION

Connection 1

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

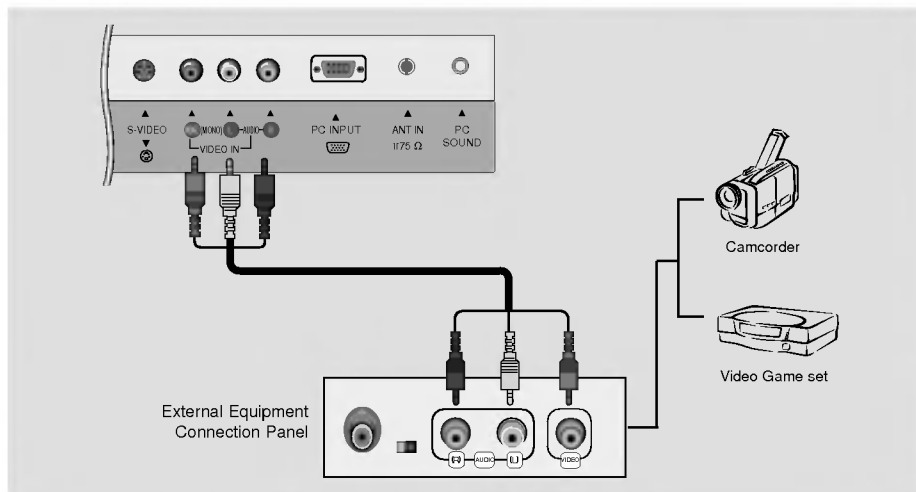
Connection 2

- 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 **TV/VIDEO** button on the remote control to select **Video**. (If connected to S-VIDEO, select the **S-Video** external input source.)

External Equipment Connections

1 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).



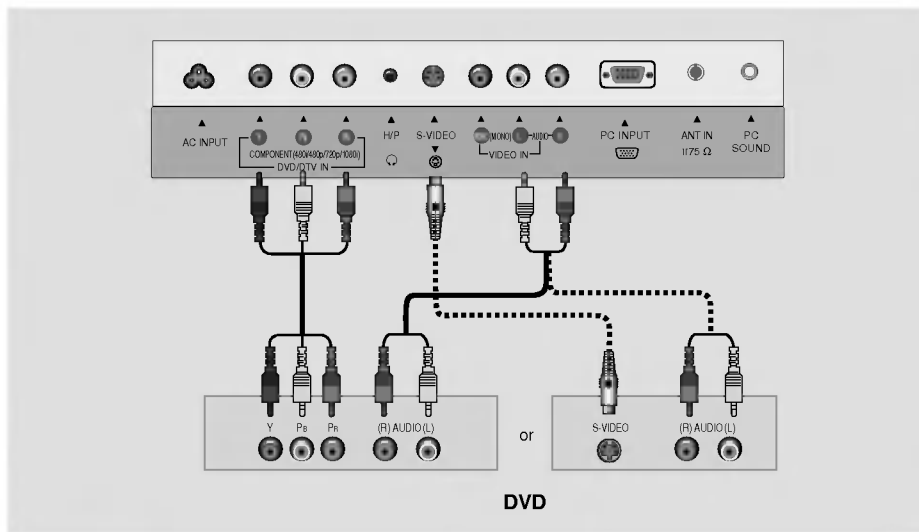
2 Viewing Setup

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

DVD Player Connections

1 Connections

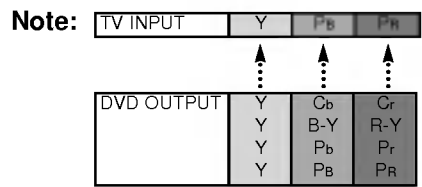
Connect the DVD video outputs to the COMPONENT (Y, Pb, Pr) jacks and connect the DVD audio outputs to the AUDIO jacks.



INSTALLATION

2 Viewing Setup

- Turn on the DVD player, insert a DVD.
 - Use the **TV/VIDEO** or **MULTIMEDIA** button on the remote control to select **Component**.
 - Refer to the DVD player's manual for operating instructions.
- Component Input ports**
To get better picture quality, connect a DVD player to the component input ports as shown below.

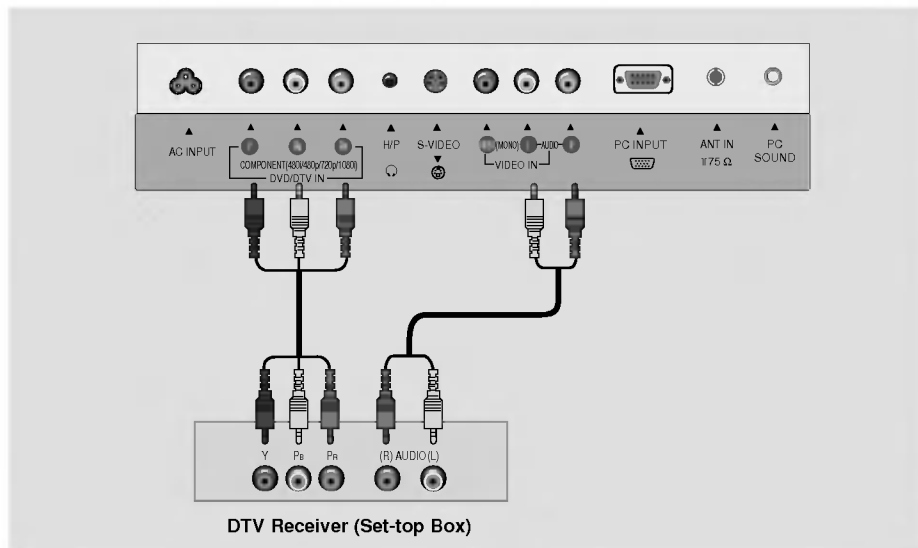


DTV (Set-top Box) Connections

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

1 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.



2 Viewing Setup

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

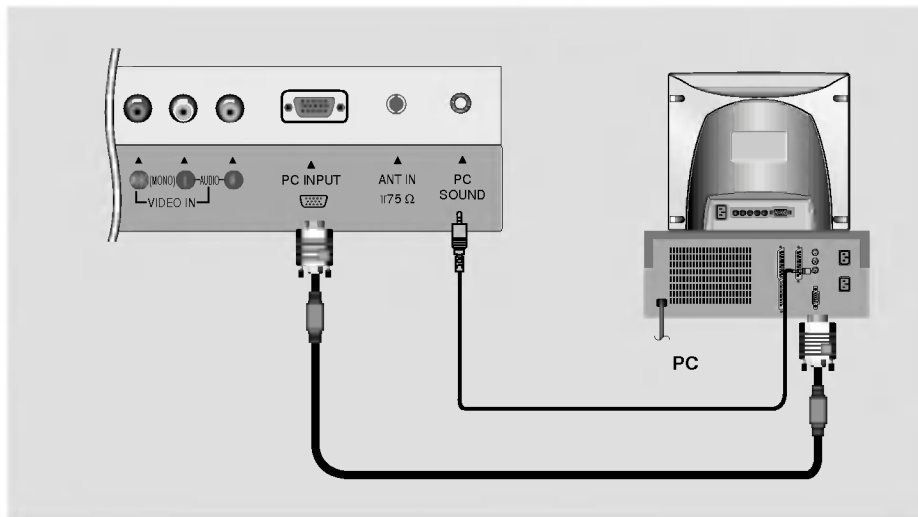
PC/Computer Connections (RM-15LA70 only)

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

1 Connections

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

INSTALLATION



2 Viewing Setup

- Turn on the PC.
- Use the **TV/VIDEO** or **MULTIMEDIA** button on the remote control to select **PC**.

Displayable Monitor Output Format Specifications

MODE	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
VGA	640x400	37.9KHz	85Hz
	640x480	31.5KHz	60Hz
	640x480	35.0KHz	67Hz
	640x480	37.9KHz	72Hz
	640x480	37.5KHz	75Hz
	640x480	43.3KHz	85Hz
SVGA	800x600	35.2KHz	56Hz
	800x600	37.9KHz	60Hz
	800x600	48.1KHz	72Hz
	800x600	46.9KHz	75Hz
	800x600	53.7KHz	85Hz
(MAC)	832x624	49.7KHz	75Hz
XGA	1024x768	48.4KHz	60Hz
	1024x768	56.5KHz	70Hz
	1024x768	60.2KHz	75Hz

Notes:

- For optimum picture quality, use standard XGA (1024x768) computer output at a 60Hz refresh rate. Using other formats (i.e.: 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).
- If the message "**OUT OF RANGE**" appears on the screen, adjust the PC output to a format listed in the 'Displayable Monitor Output Format Specifications' chart above.
- The synchronization input form for Horizontal and Vertical frequencies is separate.

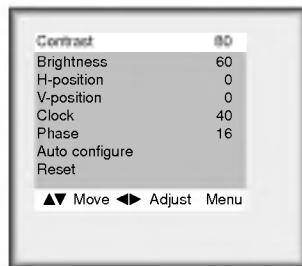
DPM (Display Power Management) mode

When the PC is in the power saving mode, the monitor automatically switches to DPM mode.

PC Mode Functions Check

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

1 Use the **MENU** button to display the available menu shown below.



- H-position/V-position
Adjusts picture left/right and up/down.
The adjustment ranges of H-Position is -100~+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 0~80. (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 0~31. (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.

Turning the TV On

TV Operation Overview

- 1 First, connect antenna cable and power cord correctly. At this moment, the TV is switched to standby mode.
 - In standby mode, press the **POWER**, **CH** (▲,▼), **TV/VIDEO**, **MULTIMEDIA** or **number** buttons on the remote control or **CH** (▲,▼), **TV/VIDEO** or **ON/OFF** on the TV side panel to turn it on fully.
- 2 Select the viewing source by pressing **TV/VIDEO** repeatedly.
 - Note: See page 23 if you have not auto programmed the TV to receive channels in your local broadcast area.
- 3 After viewing, press the **POWER** button on the remote control or **on/off** on the TV side panel. The TV screen goes dark and it reverts to standby mode.

Watching TV Programs

- 1 Press **POWER** on the remote control to turn the TV on.
- 2 Use the channel (▲,▼) or number buttons to select a channel to view.
- 3 Adjust Volume level.

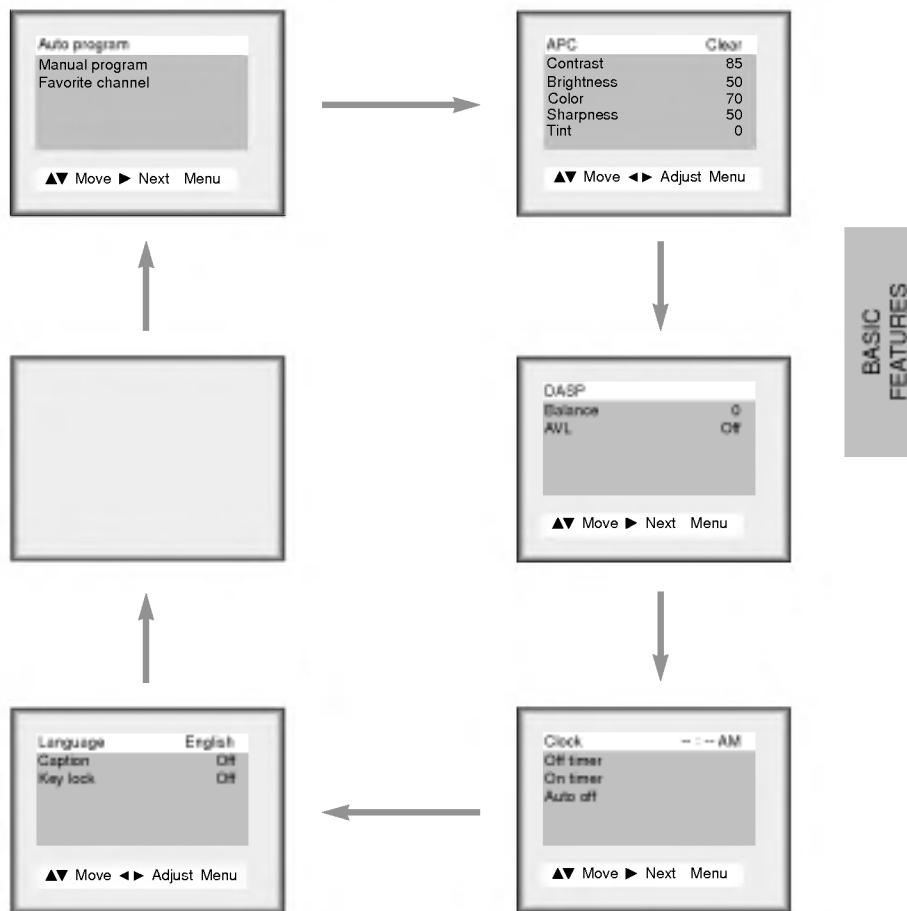
- Volume (▶) button increases the sound level.
- Volume (◀) button decreases the sound level.



- If you will be away on vacation, disconnect the power plug from the wall power outlet.

TV Mode Menu

- 1 Press the **MENU** button repeatedly to display the available menus shown below.

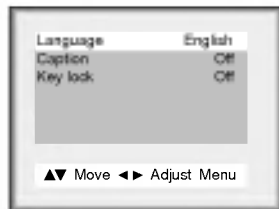


- 2 Use the channel (▲,▼) buttons to select a menu option.

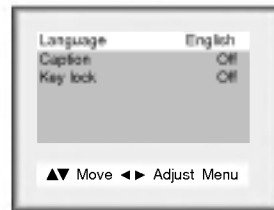
Menu Language Selection

Language

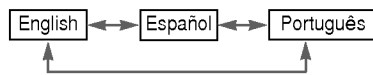
- 1 Use the **MENU** button to select the menu shown.



- 3 Use the volume (◀▶) buttons to select the language for the menus to appear in.



- Each press of volume (◀▶) buttons selects languages in the order shown below.



- 2 Use the channel (▲▼) button to select the Language option.

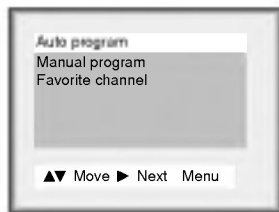
- 4 Press the **EXIT** button to save and return to TV viewing.

Auto Programming: Finding/Erasing Channels

- 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.

Channel Search (Auto Programming)

1 Use the **menu** button to select the menu shown below.

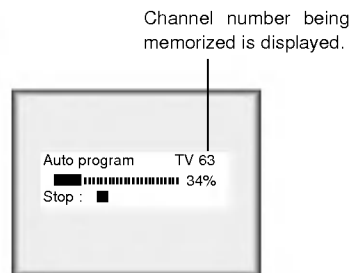


2 Use the channel (▲,▼) buttons to select the Auto program option, then press the volume (◀,▶) buttons.



3 Press the volume (◀,▶) buttons 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.



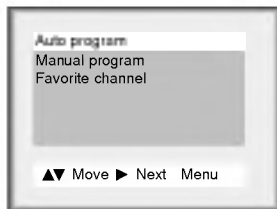
- When the channel search is complete, use the channel (▲,▼) buttons to review the memorized channels.
- If you press the **ENTER** (■) button during auto programming, the function will stop and only channels found and programmed up to that time will remain in memory.
- Auto programming function can memorize only the channels which are being received at that time (some stations have limited broadcast hours).

Auto Programming: Finding/Erasing Channels

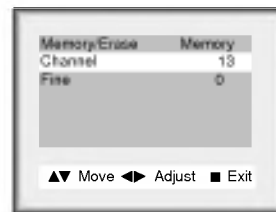
Memorizing/Erasing Channels

-Select **Memory** (to add the channel) or **Erase** (to delete the channel from memory).

- 1 Use the **menu** button to select the menu shown below.

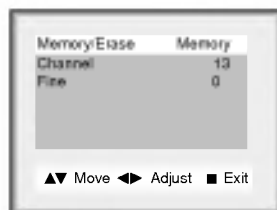


- 4 Use the channel (▲,▼) buttons to select Channel and then use the number button or volume (◀,▶) buttons to select a channel you want to memory or erase.



- 2 Use the channel (▲,▼) buttons to select the Manual program option, then press the volume (▶) button.

- 3 Use the channel (▲,▼) buttons to select Memory/Erase and then use the volume (◀,▶) buttons to select Memory (add) or Erase (delete).



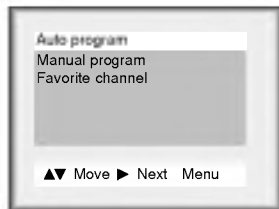
- 5 Press the **EXIT** button to save and return to TV viewing.

- The current channel is added to Memory or Erased from the channel list.

Favorite Channel Memory

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

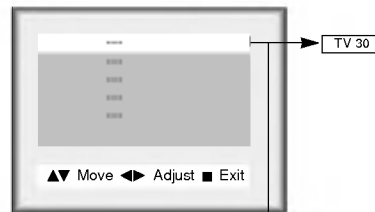
- 1 Use the **MENU** button to select the menu shown below.



- 2 Use the channel (▲,▼) buttons to select the favorite channel option.

- 3 Press the volume (►) and then use the channel (▲,▼) buttons to select the first favorite channel position. Use the volume (◀, ►) buttons to set the desired channel number for first favorite channel.

i.e) To change channel 2 to channel 30



Press the volume (◀, ►) buttons.

- Repeat this step to memorize the other 4 channels.

- 4 Press the **ENTER** (■) button to save.

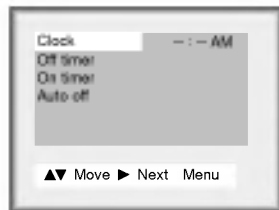


- To tune to a favorite channel, press the **FCR** (Favorite Channel Review) button repeatedly. The five favorite channels appear on the screen one-by-one.

Clock Setup

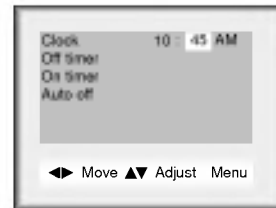
- If current time setting is erased by a power failure or if TV is unplugged, reset the clock.

- 1 Use the **MENU** button to select the menu shown below.

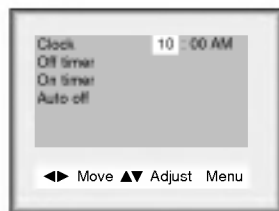


- 3 Press the volume (▶) button and use the channel (▲,▼) buttons to set the current minutes.

- If you hold the channel (▲) button, the minute display is changed in the sequence of 00 → 01 → 02 ...58 → 59, and changed in the reverse sequence for channel (▼) button.



- 2 Press the volume (▶) button and then use the channel (▲,▼) buttons to set the current hour.



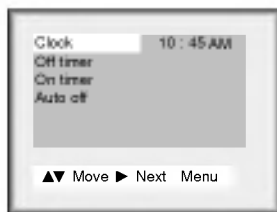
- 4 Press the **EXIT** button to save and return to TV viewing.

- The clock starts when you press the **MENU** button.

Off Timer/On Timer Setup

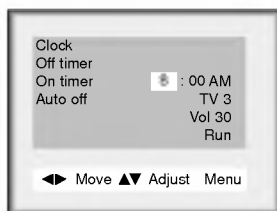
- Timer function operates only if current time has been already set.
- Off-timer function overrides on-timer function if they are set to the same time.

- 1** Use the **MENU** button to select the menu shown below.



- 2** Use the channel (▲,▼) buttons to select the Off timer or On timer option.

- 3** Press the volume (▶) button and then use the channel (▲,▼) buttons to set the turn-on hour.



- 4** Press the volume (▶) button and then use the channel (▲,▼) buttons to set the minutes.

- If you hold the channel (▲) button down, the minute display is changed in the following sequence 00 → 01 → 02 ...58 → 59, and changed in the reverse sequence for channel (▼) button.

- 5** **For only On timer function:**
- Press the volume (▶) button and then use the channel (▲,▼) buttons to select the channel at turn-on.
 - Press the volume (▶) button and then use the channel (▲,▼) buttons to select the turn on sound level.

- 6** Press the volume (▶) button and then use the channel (▲,▼) buttons to select Hold or Run.

- Hold, Off Timer will not work.
- Run, Off Timer will work.
- Each press of channel (▲,▼) button changes the menu option as shown below.



- 7** Press the **EXIT** button to save and return to TV viewing.

- On Timer setup is complete.



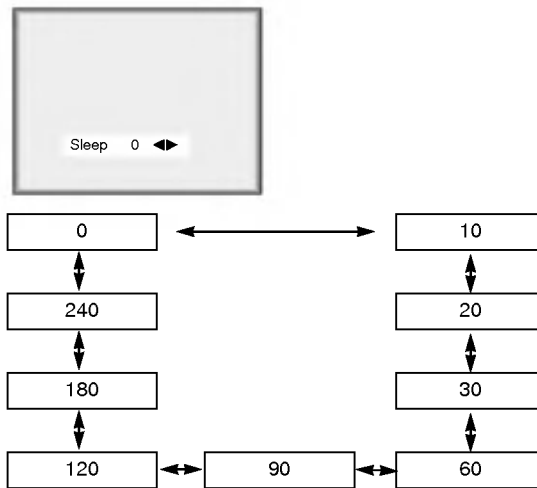
- Unless a button is pressed within two hours after the TV is turned on by the On Timer function, the TV will automatically turn off.
- TV must be in standby mode for the On Timer to work.

Sleep Timer Setup

- Sleep timer turns the TV off at the preset time.

1 Use the **SLEEP** button to set the sleep timer.

- Each press of sleep or volume (◀, ▶) button changes the setting as shown below.



- To cancel sleep time setting, press the **SLEEP** button repeatedly to select Sleep 0.



- When the sleep time you want is displayed on the screen, don't press the **SLEEP** button again.
- To check the remaining sleep time, press the **SLEEP** button once.
- To change sleep time setting, press the **SLEEP** button repeatedly to select time setting you want.
- If you turn the TV off after setting the sleep timer, the setting will be erased.

Video/Picture Setup

- APC adjusts the TV for the best picture appearance.
- When adjusting picture options (contrast, brightness, color, sharpness and tint) manually, APC automatically changes to User.

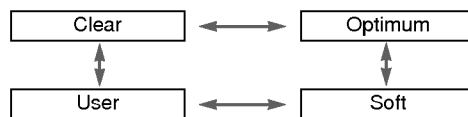
APC (Auto Picture Control)

- 1 Press the **APC** button on the remote control.



- 2 Use the **APC** buttons or volume (**◀**, **▶**) button to select your desired picture appearance.

- Each press of volume (**◀**, **▶**) button selects a different picture appearance.

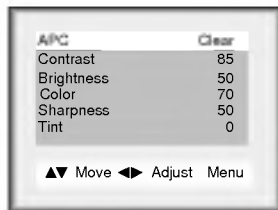


- 3 Press the **ENTER** (■) button to save.

Video/Picture Setup

Manual Picture Control (User Option)

1 Use the **MENU** button to select the menu shown.



3 Use the volume (◀, ▶) button to make appropriate adjustments.



- Use the channel (▲, ▼) button to select another picture option.
- Contrast, Brightness, Sharpness and Color are adjustable from 0 to 100.
- Tint is adjustable from Red 50 to Green 50.

2 Use the channel (▲, ▼) button to select a picture option to adjust.

4 Press the **EXIT** button to save and return to TV viewing.

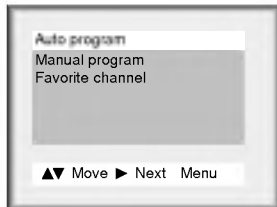


- In the broadcasting system PAL-M/N, the picture item TINT is not displayed.

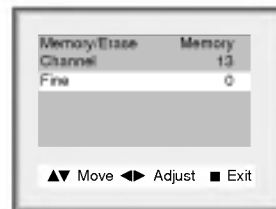
- Fine tune the Picture appearance to your personal preference

Fine Tuning Adjustment

- 1 Use the **MENU** button to select the menu shown below.



- 3 Press the volume (▶) button and then use the channel (▲,▼) buttons to select the Fine option.



- 2 Use the channel (▲,▼) buttons to select the Manual program option.

- 4 Use the volume (◀, ▶) buttons to adjust the picture appearance to your preference.

- 5 Press the **ENTER** (■) button to save.

VIDEO /
AUDIO

Audio/Sound Setup

-DASP selects the sound appropriate for your program.

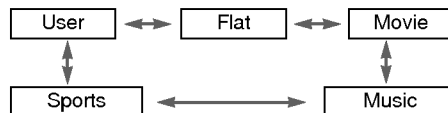
Audio Setup / DASP

- 1 Press the **DASP** button on the remote control.



- 2 Use the **DASP** button or volume (◀, ▶) button to select the desired setting for the sound.

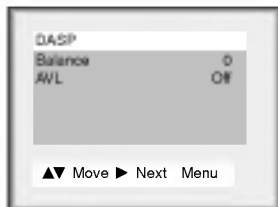
- Each press of volume (◀, ▶) button changes the DASP sound option as shown.



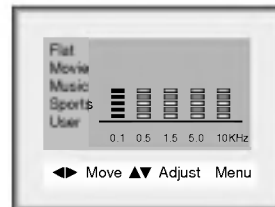
- 3 Press the **ENTER** (■) button to save.

Equalizer Adjustments

- 1 Use the **MENU** button to select the menu shown.



- 4 Use the volume (◀, ▶) buttons to select the band you want to adjust and then use the channel (▲, ▼) buttons to adjust the band level.



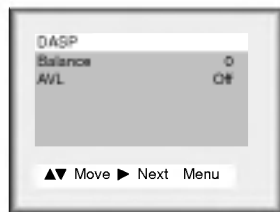
- 2 Use the channel (▲, ▼) button to select the DASP option, then press the volume (▶) button.

- 3 Use the channel (▲, ▼) button to select the User option.

- 5 Press the **EXIT** button to save and return to TV viewing.

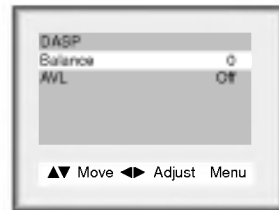
Sound Balance

- 1 Use the **MENU** button to select the menu shown below.



- 3 Use the volume (◀, ▶) button to adjust the balance.

- Balance is preset at 0.



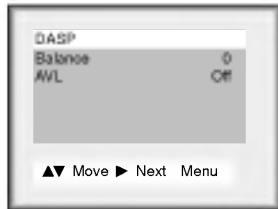
- 2 Use the channel (▲, ▼) button to select the Balance option.

- 4 Press the **EXIT** button to save and return to TV viewing.

- AVL maintains an equal volume level automatically even if the channel is changed.

AVL (Auto Volume Leveler)

- 1 Use the **MENU** button to select the menu shown below.

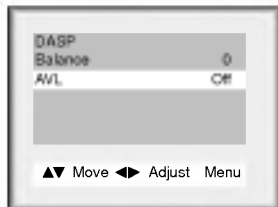


- 3 Use the volume (◀, ▶) buttons to select On or Off.

- Each press of volume (◀, ▶) buttons changes the screen display as below.



- 2 Use the channel (▲, ▼) buttons to select the AVL option.



- 4 Press the **EXIT** button to save and return to TV viewing.

Audio/Sound Setup

Selecting Bilingual Signal (Second Audio Program)

On-screen display in stereo mode: STEREO

On-screen display in bilingual mode: SAP

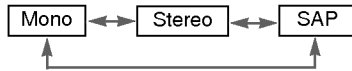
- Bilingual (second audio program) signal

- This signal contains the secondary language signal in addition to the primary language.
- There are primary and secondary language and stereo modes in bilingual signals.
- [MONO]: The primary language is heard from left and right speakers in mono sound.
- [STEREO]: The primary language is heard from left and right speakers in stereo sound.
- [SAP]: The secondary language is heard from both left and right speakers in mono sound.

1 Press the **MTS** button on the remote control.

2 Use the **MTS** button to change the audio mode.

- Each press of **MTS** button changes the audio mode as shown below.



3 Press the **ENTER** (■) button to save.



- Select Mono sound mode if the signal is not clear or in poor signal reception areas.
- STEREO and SAP modes are available only if included on the broadcast signal.

Mute

- Mute removes the speaker sound. Using mute is convenient if the user needs to answer a phone call, while viewing the TV.

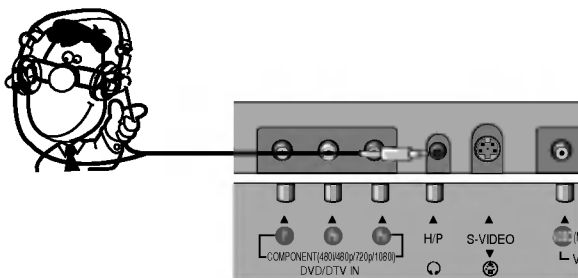
1 Press the **MUTE** button on the remote control.



- To restore muted sound, press the **MUTE** button or volume (◀, ▶) buttons.
- When muted sound is restored, current volume level is displayed on the screen.

Using Headphones

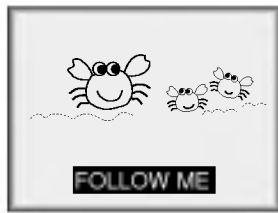
- Plug headphones in to H/P jack as shown.
- Adjust sound level to a headphone using the volume (◀, ▶) buttons. While you are listening to sound through a headphone(s), TV speakers will not be heard.



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 is 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 **Mode 1** or **Mode 2**, you can choose which signal you view. **Mode 1** is usually the signal with the captions, while **Mode 2** 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 playing.

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.

(Continued on next page)

Text Setup

Text services give a wide variety of information on all kind of subjects (ex. captioned program lists, weather forecasts, stock exchange topics, news for hearing-impaired---) on up to half of the TV screen. But not all stations offer text services, even though they might offer captioning.

- In the event you are receiving a poor signal, an empty black box may appear and disappear, even when the text mode is selected. This is a normal when receiving a poor signal.

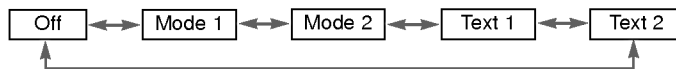
Captions Setup

- 1 Press the **CAPTION** button on the remote control to select Captions.



- 2 Use the **CAPTION** button or the volume (◀, ▶) buttons to select [Mode 1] and press the **ENTER** (■) button.

- Each press of volume (◀, ▶) buttons changes the caption option as shown below.

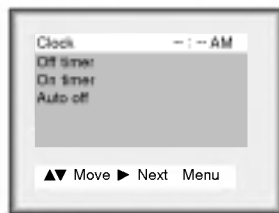


- Captions function setting is Completed.

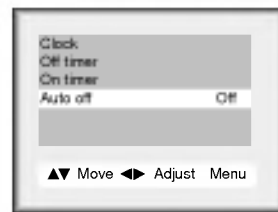
Auto Off

- If there is no input signal, the TV switches to standby mode automatically after 10 minutes.

- 1 Use the **MENU** button to select the menu shown.



- 3 Use the volume (◀▶) buttons to select On or Off.



- Each press of volume (◀▶) buttons toggles between On and Off.



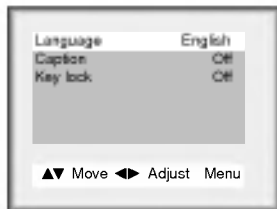
- 2 Use the channel (▲,▼) buttons to select the the Auto off option.

- 4 Press the **EXIT** button to save and return to TV viewing.

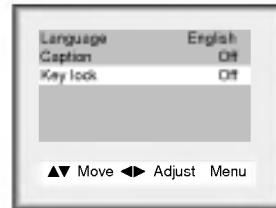
Key Lock

- The TV can be set up so that it can only be used with the remote control.
- This feature can prevent unauthorized viewing.

1 Use the **MENU** button to select the menu shown.



3 Use the volume (◀▶) buttons to select On or Off.



- Each press of volume (◀▶) buttons toggles between On and Off.



2 Use the channel (▲,▼) buttons to select the the Key lock option.

4 Press the **EXIT** button to save and return to TV viewing.



- This TV is programmed to remember which option it was last set to even if you turn the TV off.

Product Specifications

Model	RM-15LA70	RM-20LA70
Horizontal size (inches)	18.5	23.2
Height (inches)	14.7	18
Depth (inches)	8	8.4
Weight (pounds)	16	22
Power requirements	AC 100-240V ~ 50/60Hz	
Television system	NTSC, PAL-M/N	
Television channels	VHF : 2 ~ 13, UHF : 14 ~ 69 Cable : 1 ~ 125	
Tube	LCD Panel	
Power consumption	45 W	60 W
External antenna impedance	75 Ω	
Audio output	3 W + 3 W	

Troubleshooting Checklist

SYMPTOMS

- No power
- No picture or sound
- Poor picture but good sound
- Poor reception
- Lines in picture
- Ghosts (multiple images)
- Remote control does not work.
- Cannot tune desired channel.



CHECK THESE THINGS

- Is power cord plugged in?
- Is television turned on?
- Check batteries in remote control.
- Try another channel (station trouble).
- Check antenna connections.
- Check for local interference.
- Adjust the antenna.
- Adjust the picture control.
- Program channels using AUTO PROGRAM.

