



# RCA

reality: reproduced.

## LCD User's Guide

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# Important Information

## CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

## WARNING

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. The apparatus shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

## WARNING

The TV is unstable until it is properly attached to the base or mounted to the wall. Please follow the base or wall mounting instructions provided in the User's Guide to ensure your safety.



This symbol indicates that this product contains mercury. Special disposal of this product for environmental reasons may be required under the laws applicable to your jurisdiction. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: [www.eiae.org](http://www.eiae.org).

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

**Cable TV Installer:** This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which 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 cable entry as practical.

**Important:** This television is a table model and is designed to sit on a firm, flat, surface. Don't place the TV on soft carpeting or similar surface because the ventilation slots on the bottom of the unit will be blocked resulting in reduced lifetime from overheating. To assure adequate ventilation for this product, maintain a spacing of 4 inches from the top and sides of the TV receiver and 2 inches from the rear of the TV receiver and other surfaces.

Also, make sure the stand or base you use is of adequate size and strength to prevent the TV from being accidentally tipped over, pushed off, or pulled off. This could cause personal injury and/or damage the TV. Refer to the Important Safety Instructions on the next page.

## Product Registration

Please fill out the product registration card (packed separately) and return it immediately. For US customers: Your RCA Consumer Electronics product may also be registered at [www.rca.com/television](http://www.rca.com/television). Registering this product allows us to contact you if needed.

## Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. These numbers are located on the product.

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Purchase Date \_\_\_\_\_

Dealer/Address/Phone \_\_\_\_\_

## Important Safety Instructions

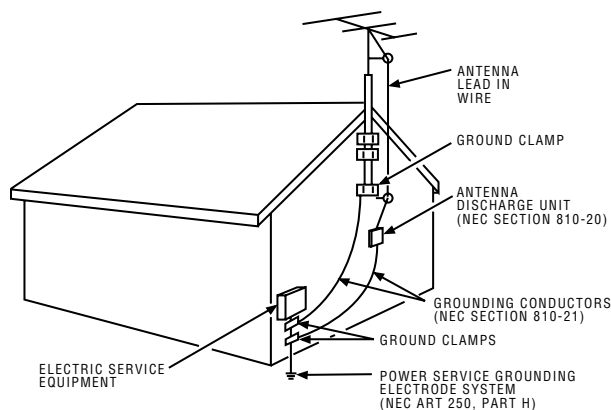
### Important Safety Instructions

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 dry cloth.
7. Do not block any 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. If 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 attachments/accessories specified by the manufacturer.
12. Use only with the 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.

15. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See following example.



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# Chapter 1: Connections and Setup

## Things to Consider Before You Connect

### Protect Against Power Surges

- Connect all devices before you plug any of their power cords into the wall outlet or power strip. NEVER plug your TV into an outlet that is controlled by a wall switch.
- Turn off the TV and/or device(s) before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safety Instructions at the beginning of the User's Guide.

### Protect Devices from Overheating

- Don't block ventilation holes on any of the devices. Arrange the devices so that air can circulate freely.
- Don't stack devices.
- If you place devices in a stand, make sure you allow adequate ventilation.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won't flow around other devices.

### Position Cables Properly to Avoid Audio Interference

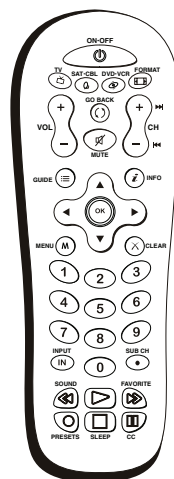
- Insert each cable firmly into the designated jack.
- If you place devices above the TV, route all cables down the side of the back of the TV instead of straight down the middle.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.

### Use Indirect Light

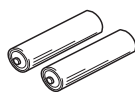
Don't place the TV where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

### Check Supplied Parts

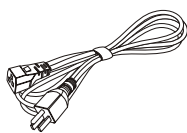
Check that the following parts were packed with your product.



Remote control  
Part # R301E1



2 AA batteries

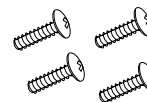


Power cord

For models L26WD22 and L32WD22

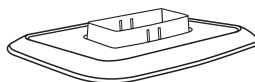


Base

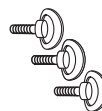


4 screws to attach base

For models L26WD23, L32WD23, and L37WD23



Base

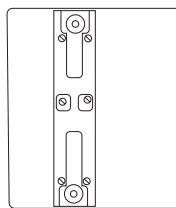


3 screws to attach base

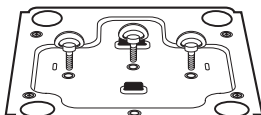
**Note:** If you need to replace your remote, call 1-800-338-0376. A shipping and handling fee, and the appropriate sales tax, will be charged upon ordering. Have your Visa, MasterCard, or Discover Card ready.

## Attaching Your TV's Base

Your TV comes shipped without the base attached so that you can choose to mount your TV either to its base or to a wall (wall mount sold separately). If you want to mount your TV to the wall, don't attach the base and instead follow the *Mounting Your TV to the Wall* instructions below.



Bottom of base- models L26WD22 and L32WD22



Bottom of base- models L26WD23, L32WD23, and L37WD23

1. Locate the base. For models L26WD22 and L32WD22, locate the four screws. For models L26WD23, L32WD23, and L37WD23, locate the three screws.
2. Attach the screws to the bottom of the base as the pictures to the left show.

For models L26WD23, L32WD23, and L37WD23, the screw holes underneath the TV match with the screw holes inside the base. Push down on the top of the TV until it clicks into the base.

For models L26WD22 and L32WD22, the two screws go into each side of the base.

## Mounting Your TV to the Wall

**Caution:** The wall mount must bear a minimum of five times the TV's net weight without causing damage.

To mount your TV to the wall you need to purchase a VESA wall mount.

For models L26WD22 and L26WD23, purchase a VESA 100 x 100, M4 screw.

For models L32WD22 and L32WD23, purchase a VESA 200 x 200, M6 screw.

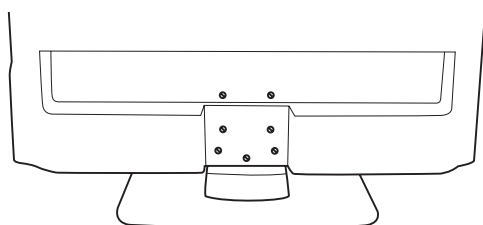
For model L37WD23, purchase a VESA 400 x 400, M6 screw.

The VESA number is the horizontal and vertical measurement of the mounting holes. For example, 100 x 100 means the mounting measurements are 100mm horizontally and 100mm vertically.

1. If the base is attached, you need to remove it before attaching the wall mount.
  - A. Place the TV facedown on a surface that is soft, yet strong enough to hold the TV.
  - B. Use a screwdriver to remove the screws from the holes as shown in the picture to the left. Models L26WD23 and L32WD23 have seven screws; model L37WD23 has six screws. The models with different numbers of screws are located relatively in the same place as the picture shows.

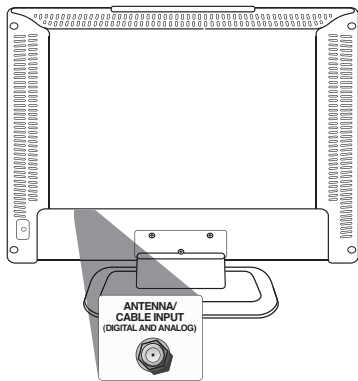
Models L26WD22 and L32WD22 have four screws on the bottom of the base as shown above in *Attaching Your TV's Base*.

2. Make sure all cables are already connected to the TV.
3. Follow the directions included with the wall mount to mount the TV to the wall.

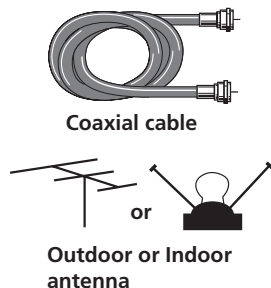


Remove the screws that attach to the TV's base attachment.

# Connections and Setup



(The location of the jack varies on your TV's model.)



## Get the Picture

The first part of connecting your TV is to get the picture, also known as the signal. The back panel of your TV allows you to receive analog and digital channels by using the ANTENNA/CABLE INPUT.

## Getting Channels

### What You Need

- Antenna (“rabbit ears”) or outdoor antenna with coaxial cable
- OR**
- Coaxial cable with cable service
- A. Do you have an indoor or outdoor antenna? If you don't, go to step B. If you do, plug the antenna or coaxial cable from the wall outlet into the ANTENNA/CABLE INPUT to receive free off-air local digital and analog channels.
  - B. Do you have cable? If you don't, go to step C. If you do, plug the coaxial cable from the wall outlet into the ANTENNA/CABLE INPUT to receive your cable channels.
  - C. Do you have a set-top box? If you do, you need to call your cable company or satellite service provider. They may use special cables to allow you to view digital channels.

### What You Need To Know

- Visit [www.antennaweb.org](http://www.antennaweb.org) to get help deciding what type of antenna to use to receive the local digital channels available to you. By entering where you live, this mapping program tells you what local analog and digital stations are available using a certain antenna.
- As you change channels, look at the top right corner of the screen to see what type of channel you're viewing. Digital channels display a *D* as part of the channel, such as *D Ch 29.1*, while analog channels display an *A* as part of the channel, such as *A Ch 9*. Go to page 16 for more channel information.

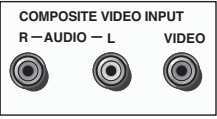
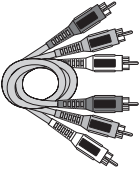

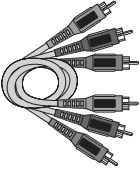
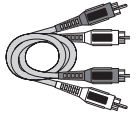
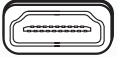

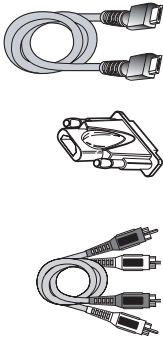
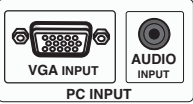
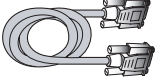
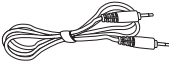


## Choose Your Connection

*Note for US customers: If you prefer, we can provide you with the name of an Authorized Service Representative who will visit your home for a fee to install your electronic entertainment system and to instruct you in its operation. For details about this service, call 1-888-206-3359.*

*For additional assistance while using your RCA product, please visit [www.rca.com/customersupport](http://www.rca.com/customersupport).*

There are several ways to connect your TV. Please use the following chart to determine which connection is best for you. Proceed to the appropriate page and connect your TV.

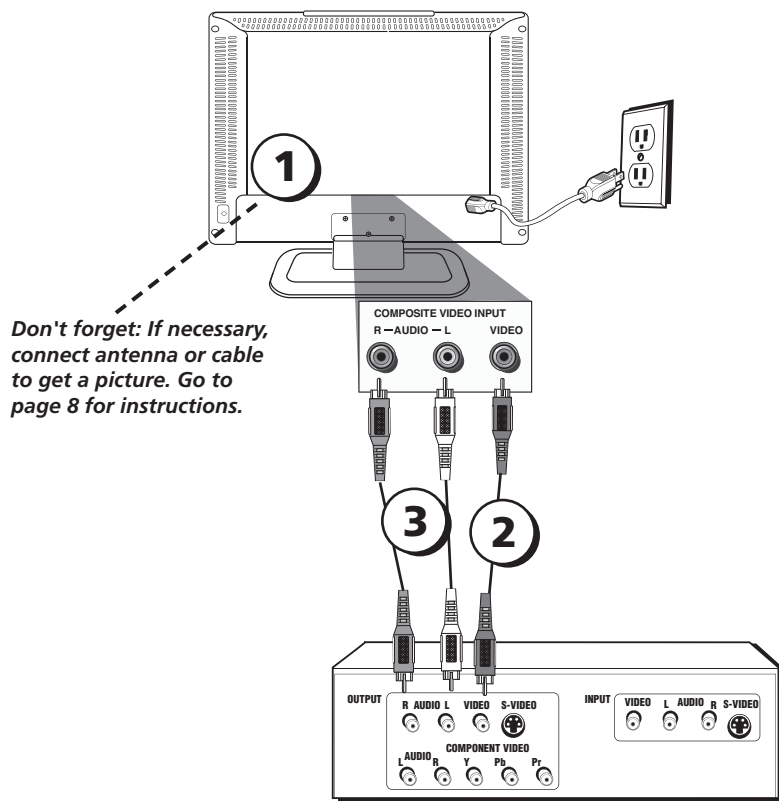
Jacks Used	Cables Needed	Go to...
 <p><b>Video</b> <b>Audio R and L</b></p>	 <p><b>Audio/Video</b></p>	<b>page 10-11</b>
 <p><b>Y Pb Pr</b> <b>Audio R and L</b></p>	 <p><b>Component Video</b></p>  <p><b>Audio</b></p>	<b>page 10-11</b>
 <p><b>HDMI</b></p>	 <p><b>HDMI™</b></p> <p><b>OR</b></p>	<b>page 12</b>
	 <p><b>HDMI™</b> <b>+</b> <b>HDMI/DVI adapter</b> <b>+</b> <b>Audio</b></p>	
 <p><b>VGA</b> <b>Audio</b></p>	 <p><b>VGA</b></p>  <p><b>Audio</b></p>	<b>page 13</b>

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

# Connections and Setup

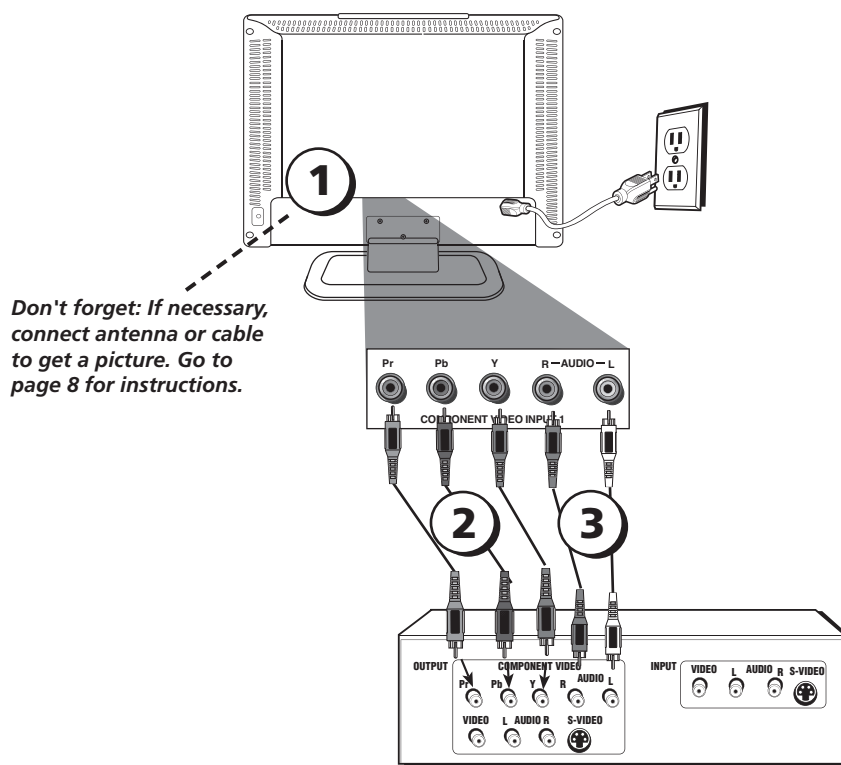
## Video (Basic) Connection

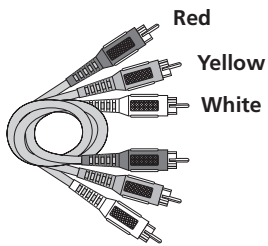
This is an example of a connection using the Video jack. Go to the top of page 11 for specific instructions.



## Component Video (Advanced) Connection

This is an example of a connection using the Component Video jacks. Go to the middle of page 11 for specific instructions.





Composite cables are color coded- Yellow= video; Red= right audio; white= left audio

## Connecting the Device with Video (Basic)

This connection allows you to connect a device that has a Video Out jack, for example, a DVD player.

**Note:** If the device you're connecting also has Component Video jacks and you have component video cables, we recommend you use the Component Video (Advanced) Connection instead. See the next set of instructions below.

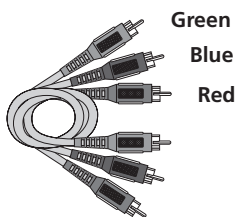
Using the example of a DVD player:

1. If necessary, connect your cable or off-air antenna as described on page 8.
2. Connect your yellow video cable.

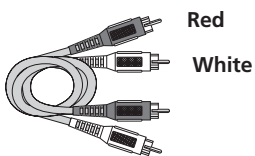
Connect a video cable to the VIDEO Input jack on the back of the TV and to the Video Output jack on the DVD player.

3. Connect your red and white audio cables.

Connect the audio (red and white) cables to the AUDIO R and L jacks on the back of the TV and to the Audio Output jacks on the DVD player.



Component Video cables (Y Pb Pr) are color coded- Green, Blue and Red



Audio cables are color coded- Red= right audio; white= left audio

## Connecting the Device with Component Video (Advanced)

This connection allows you to connect a device that has Y Pb Pr jacks, for example, a DVD player.

Using the example of a DVD player:

1. If necessary, connect your cable or off-air antenna as described on page 8.
2. Connect your Y Pb Pr component video cables.

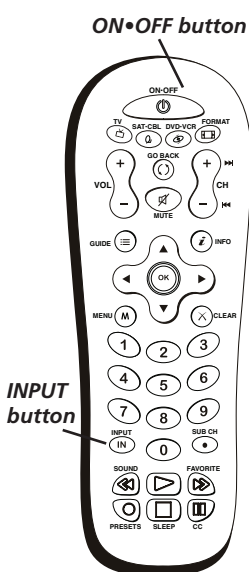
Connect three video cables or special Y Pb Pr cables to the COMPONENT VIDEO INPUT 1 Y Pb Pr jacks on the back of the TV and to the Y Pb Pr outputs on the DVD player.

3. Connect your red and white audio cables.

Connect the audio (red and white) cables to the COMPONENT VIDEO INPUT 1 AUDIO R and L jacks on the back of the TV and to the Audio Output jacks on the DVD player.

## Viewing the Picture from the Connected Device

1. Plug in the TV (see page 15 for details) and the device, if they aren't already plugged in.
2. Turn on the TV and the device you want to view, for example a DVD player.
3. Press the INPUT button on the remote control and press the up or down arrow button to highlight *Composite* (if connected to the VIDEO jack) or *Component 1* (if connected to the COMPONENT VIDEO INPUT 1 jacks). Press OK to tune to the input. To go back to viewing TV channels, press the CH+ or CH- button.



Use these buttons to view the picture of the device you've connected to the TV.

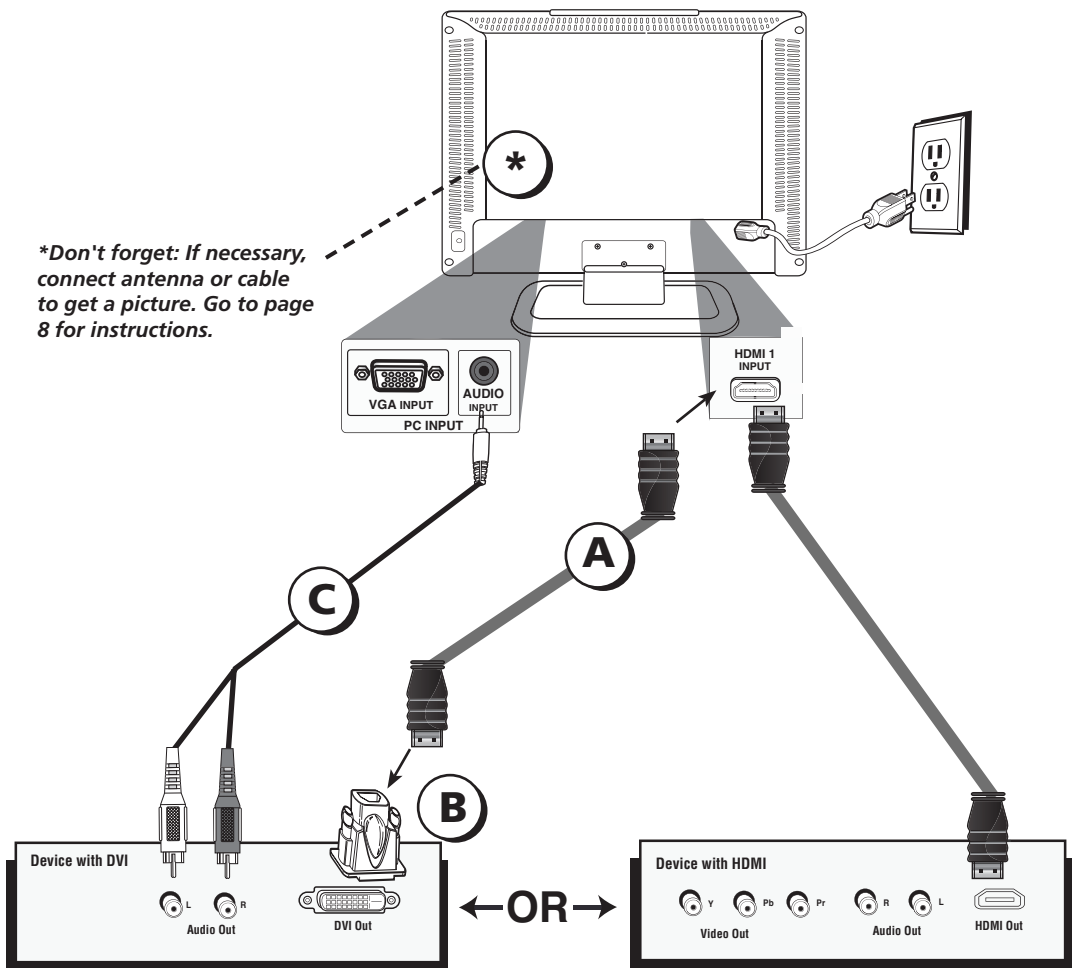
• If you're done connecting devices to your TV, go to page 16 to complete the Initial Setup.

• To continue connecting devices, go to the next page.

# Connections and Setup

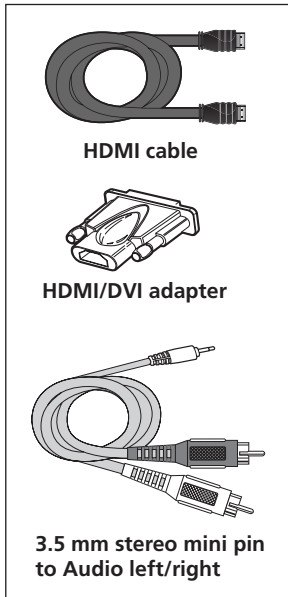
## HDMI Connection

This is an example of a connection using the HDMI jack.



## Connecting the Device

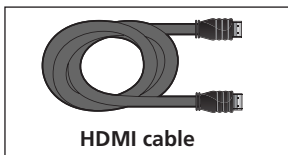
High-Definition Multimedia Interface (HDMI) technology is an uncompressed digital connection that carries both video and audio data by way of an integrated mini-plug cable.



### Using the example of a set-top box:

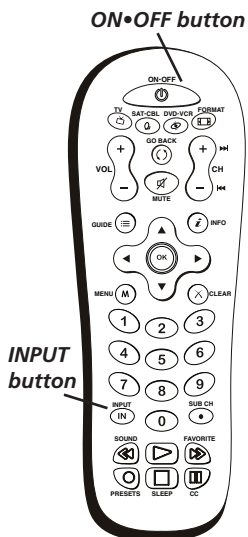
- **If your set-top box has a DVI jack, connect an HDMI cable and an HDMI/DVI adapter.**
  - A. Connect an HDMI cable to the HDMI1 Input jack on the back of the TV.
  - B. Attach an HDMI/DVI adapter to the end of the HDMI cable, then connect the adapter to the DVI Out jack on the set-top box.
  - C. Connect audio using a 3.5 mini headphone to Audio left/right cable since the DVI cable does not transfer sound. Connect the 3.5 mini headphone to the PC INPUT AUDIO jack on the back of the TV and the Audio left and right cables to the R and L jacks on the back of the device.

–OR–



- **If your set-top box has an HDMI output jack, connect an HDMI cable.**

Connect an HDMI cable to the HDMI INPUT on the back of the TV and to the HDMI Out jack on the back of the device.



Use these buttons to view the picture of the device you've connected to the TV.

## Viewing the Picture from the Connected Device

The device in this connection is connected to the HDMI INPUT jack. To view this device:

1. Plug in the TV (see page 15 for details) and the device, if they aren't already plugged in.
2. Turn on the TV and the device you want to view, for example a set-top box.
3. Press the INPUT button on the remote control and press the up or down arrow button to highlight, depending on which input you connected to, *HDMI 1* or *HDMI 2* from the input list. Press OK to tune to the input. To go back to viewing TV channels, press the CH+ or CH- button.

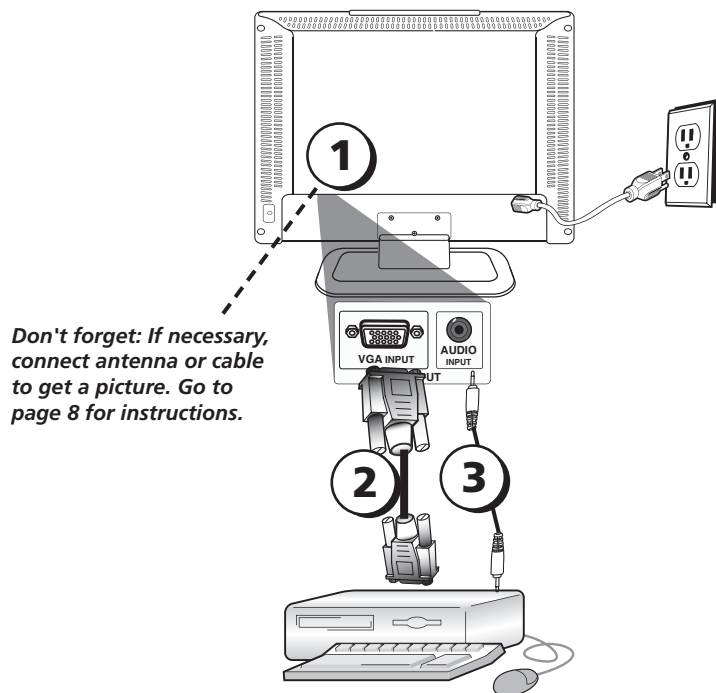
• If you're done connecting devices to your TV, go to page 16 to complete the Initial Setup.

• If you experience HDMI problems, go to the HDMI Troubleshooting section on page 41.

# Connections and Setup

## VGA Connection

This is an example of a connection using the VGA jacks.



## Connecting the Device

This connection allows you to connect to a personal computer.

1. **If necessary, connect your cable or off-air antenna as described on page 8.**
2. **Connect your monitor cable.**

Connect one end of a 15-pin monitor cable to the VGA INPUT jack on the TV and the other end to the PC's video output jack. Note, if your PC's video output isn't 15-pin, you'll need an adapter that can connect to a 15-pin monitor cable. If the picture doesn't look right, try adjusting the VGA settings as explained on page 36.

3. **Connect your audio cable.**

Connect a 3.5 mm stereo mini pin cable (sometimes referred to as 1/8" stereo mini pin) to the VGA AUDIO INPUT jack on the back of the TV and the other end to the Audio Output jack on the PC.

**Notes:** The maximum panel resolution is 1360 x 768 for your TV. Be sure to set your PC to the correct monitor output setting.

The TV allows you to listen to the sound from another input while the PC is connected. Go to page 37 for more information.

## Viewing the PC

1. Plug in the TV (see page 15 for details) and the PC, if they aren't already plugged in.
2. Turn on the TV and the PC.
3. Press the INPUT button on the remote control and press the up or down arrow button to highlight *VGA* from the input list. Press OK to tune to the input. To go back to viewing TV channels, press the CH+ or CH- button.

## Plug in the TV

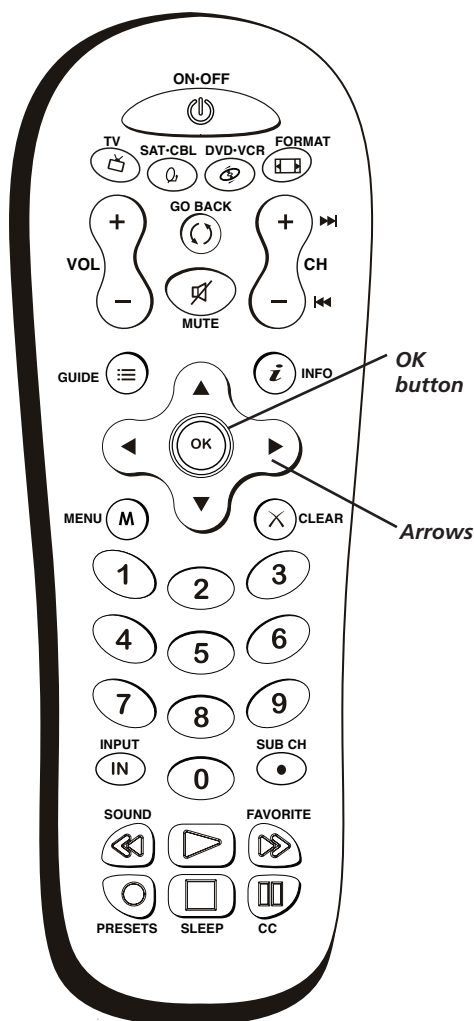
Plug the end of the power cord into the back of the TV. For models L26WD23, L32WD23, and L36WD23, plug the power cord into the power adapter, then plug the power adapter into the TV. Plug the other end of the power cord into a grounded wall outlet. Insert the plug completely into the outlet. Do not plug into an outlet controlled by a light switch.

## Put Batteries in the Remote

- Remove the battery compartment cover from the back of the remote by pushing the tab and lifting off the cover.
- Insert two fresh batteries. Make sure the polarities (+ and -) are aligned correctly.
- Replace the cover.

## Turn on the TV

Turn on your TV by pressing the Power button on the TV or ON•OFF on the remote control.



## How to Use the Remote Control to Complete the Initial Setup

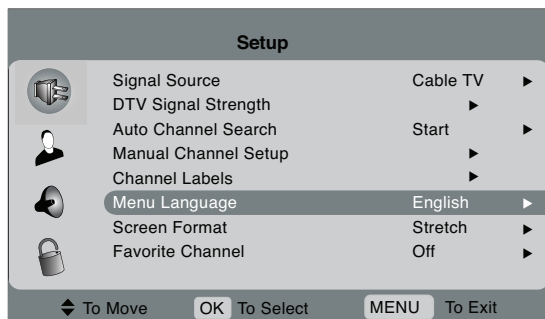
The technical term is “Navigation” – how you move through the on-screen menus. The theory is the same throughout the menu screens: highlight your choice and select it.

With the Setup menu displayed, press the right arrow button to access the Setup menu choices. Press the up or down arrow button to move up or down within the menu. Items with an arrow (▶) means there are more items to choose from or a sub-menu available. Press the right arrow or OK to display these. Press the MENU button to move back a menu.

**Note:** Highlighted means that the menu item stands out from other menu items on the list (appears darker, brighter, or a different color).

## Complete the Initial Setup

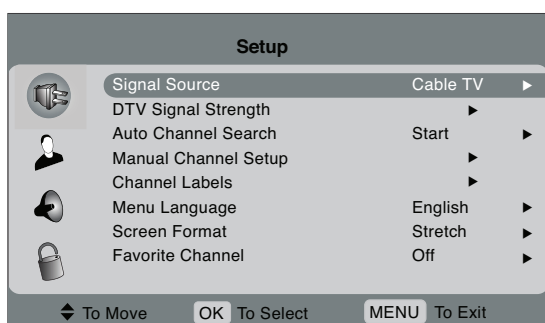
Customizing items in the *Setup* menu allows your TV to perform correctly. Make sure you've connected the TV to cable or an off-air signal before you continue.



### Set the Menu Language

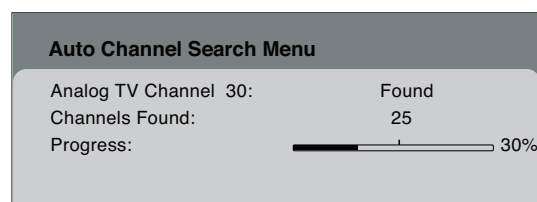
If English is your preferred language, skip this step and go to *Set the Signal Source*.

To choose another language, press the MENU button then press the right arrow button to enter the *Setup* menu. Press the down arrow to highlight *Menu Language*, then press the right arrow to choose a language. Continue to *Set the Signal Source*.



### Set the Signal Source

From the *Setup* menu, press the up or down arrow button to highlight *Signal Source*. If you connected Cable to your ANTENNA/CABLE INPUT, the option is chosen for you and you can press the down arrow button to highlight *Auto Channel Search*. To choose *Air (Antenna)*, press the right arrow button and then press the down arrow button to highlight *Auto Channel Search*.



**If you have ANALOG and DIGITAL channels, the TV runs 2 separate channel searches.**

### Complete the Channel Search

Even though the initial channel search can take time, you must complete it in order for your TV to display channels and programming. With *Auto Channel Search* highlighted, press OK to begin the channel search. The menu shows the TV is running a channel search. The TV tunes to a program once the search is complete.

Some channels might have been found during the channel search that are unavailable to view and you might want to get rid of these so they don't appear as you change channels. To do this, highlight *Manual Channel Setup* from the Setup menu. Note that removing channels from your channel list may be time consuming, so you might want to do it later. Go to page 34 for details on editing your channel list.



## What To Expect

### Watching TV

- Your TV allows you to change the format of the picture you're viewing by pressing the **FORMAT** button on your remote or accessing the *Screen Format* option in the Setup menu. The format changes as you press the **FORMAT** button and the format type is displayed at the top of the screen. Depending on the type of signal you're viewing, a different format might not be available.
- Analog video is sent in a 4/3 format. Most digital video is sent in a 16/9 format, but sometimes is sent in 4/3. It depends on how the station or device connected to your TV is formatting the video. If there are bars on-screen, press the **FORMAT** button to try a different format that may eliminate the bars. Go to page 33 for details.

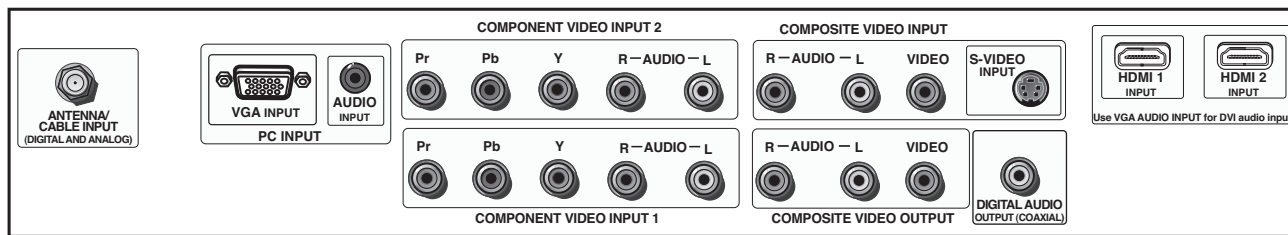
### Changing Channels

- If you have both analog and digital channels, these are put into the same channel list. As you change channels, look at the top right corner of the screen to see what type of channel you're viewing. Digital channels display a *D* as part of the channel, such as *D Ch 29.1*, while analog channels display an *A* as part of the channel, such as *A Ch 9*.
- Digital channels can have both primary channels (like the analog channel number) and subchannels. If 6 is the primary channel and 1 is the subchannel, for example, the channel looks like *6.1* on screen. To tune to a digital channel with a subchannel, such as 6.1, enter the primary channel number (6), then press the **SUB CH** button. Enter the subchannel number (1) and press **OK**.
- Depending upon the type of signal you have connected to your HDTV, you might notice that the channels change slower than you're used to. This is perfectly normal. Digital channels sometimes take longer to tune.

# Connections and Setup

## Explanation of Jacks (in alphabetical order)

This section describes the jacks on the back panel of your TV. There are several ways to connect devices.



### Back Panel Jacks

**ANTENNA/CABLE INPUT** Lets you connect a coaxial cable to receive the signal from the antenna, cable, or cable box.

**COMPONENT VIDEO INPUT 1** Lets you connect a device that has component video jacks, such as a DVD player.

- **COMPONENT L AUDIO** Provides left audio connection when using COMPONENT VIDEO INPUT. The left audio connector is usually white.
- **COMPONENT R AUDIO** Provides right audio connection when using the COMPONENT VIDEO INPUT. The right audio connector is usually red.
- **COMPONENT VIDEO Y Pb Pr** Provides optimum picture quality because the video is separated into three signals. Use three video-grade or component video cables for the connection. When using Y Pb Pr, make sure you connect left and right audio cables to the COMPONENT L and R AUDIO jacks.

**COMPONENT VIDEO INPUT 2** Lets you connect another device that has component video jacks, such as a DVD player. Same explanation as above.

**COMPOSITE VIDEO INPUT** Lets you connect a device that has composite video jacks, such as a video game console, VCR, or DVD player.

- **AUDIO L and R** Receives audio from another device such as a camcorder, video game console, VCR, or DVD player. Use when connecting to the VIDEO or S-VIDEO Input.
- **S-VIDEO** Allows you to connect an S-Video cable from another device. Make sure you also connect audio cables from the device to the TV.
- **VIDEO** Receives video from another device such as a camcorder, video game console, VCR, or DVD player.

**Note:** Do not connect an S-Video and a regular video cable at the same time.

**COMPOSITE VIDEO OUTPUT** Lets you connect a device that has composite video jacks so you can record or display video on the device instead.

- **AUDIO L and R** Use the Audio Out jacks when using the VIDEO OUTPUT jack or use these jacks by themselves to connect an audio receiver to the TV for enhanced sound quality.
- **VIDEO** Connect a VCR or DVD-recorder to record digital and analog programs from the Digital or Analog Input (excluding copy-protected programs and component video formats) while the TV is turned on. You must leave the TV on the same channel you are recording.

**DIGITAL AUDIO OUTPUT (COAXIAL)** Use this jack to connect an audio receiver to the TV for enhanced sound quality. Make sure you set the Audio output correctly in the *Advanced Audio Menu*. Go to page 37 for more information.

**HDMI 1 INPUT** (High-Definition Multimedia Interface) Provides an uncompressed digital connection that carries both video and audio data by way of an integrated mini-plug cable. Lets you connect a device, such as a digital cable box, with an HDMI output.

**HDMI 2 INPUT** (High-Definition Multimedia Interface) Lets you connect a second HDMI device.

**VGA AUDIO INPUT (Stereo mini jack)** Use to obtain sound when a device is connected to the VGA jack. Use a 3.5 mm stereo mini pin cable (sometimes referred to as 1/8" stereo mini pin) to connect a device to your TV. Go to page 14 for more information.

**VGA INPUT** Connect your computer, or other device with a VGA output, to this jack using a 15 pin D-sub cable.


## Side Input Jacks (on left when facing back of TV)

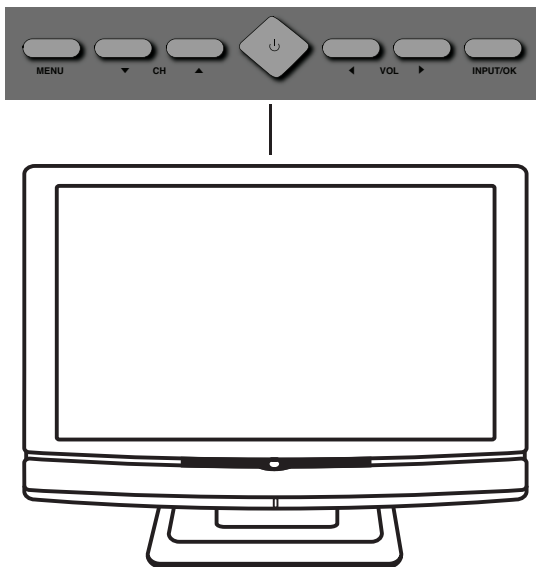
**AUDIO L and R** Receives audio from another device such as a camcorder, video game console, VCR, or DVD player. Use when connecting to the VIDEO or S-VIDEO Input.

**VIDEO Input** Receives video from another device such as a camcorder, video game console, VCR, or DVD player. To access a device connected to the VIDEO jack, press the INPUT button on your remote and select *Composite (Side)* from the input list.

**S-VIDEO Input** Allows you to connect an S-Video cable from another device. Make sure you also connect audio cables from the device to the TV. To access a device connected to the S-VIDEO jack, press the INPUT button on your remote and select *S-Video (Side)* from the input list.

**Note:** Do not connect an S-Video and a regular video cable to the side jacks at the same time.

 (Headphones) Allows you to connect headphones to listen to the sound coming from the TV. The TV speakers turn off when you plug in headphones.



## Buttons On Your TV

If you cannot locate your remote, you can use the buttons on your TV to operate many of the TV's features.

Models L26WD22 and L32WD22 buttons are located on the right side. Models L26WD23, L32WD23, and L37WD23 buttons are located on the top panel.

**MENU** Displays the TV Main menu. If the main menu is displayed, exits the menu; if a sub menu is displayed, takes you back to the previous menu.

**CH ∇** Scans down through the channel list. In the TV menu system, acts like the down arrow button on the remote control and adjusts menu controls.

**CH ▲** Scans up through the channel list. In the TV menu system, acts like the up arrow button on the remote control and adjusts menu controls.

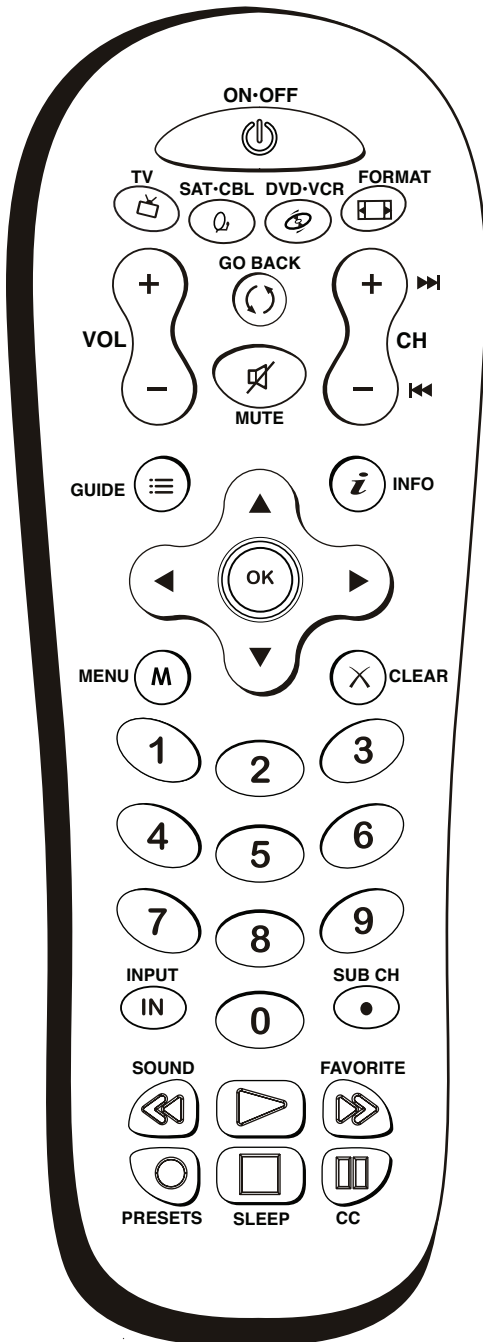
**POWER** Turns the TV on and off.

**VOL <** Decreases the volume. In the TV menu system, acts like the left arrow button on the remote control and adjusts menu controls.

**VOL >** Increases the volume. In the TV menu system, acts like the right arrow button on the remote control and adjusts menu controls.

**INPUT/OK (only available on models L26WD23, L32WD23, and L37WD23)** Displays the available video input channels- *Watch TV, Composite, S-Video, Composite (Side), S-Video (Side), Component 1, Component 2, VGA, HDMI1 and HDMI2*. When in the menu system, displays sub-menus and selects the highlighted item.

## Chapter 2: Using the Remote Control



Remote control part number R301E1

**Note:** If you need to replace your remote, call 1-800-338-0376. A shipping and handling fee, and the appropriate sales tax, will be charged upon ordering. Have your Visa, MasterCard, or Discover Card ready.

### The Buttons on the Remote Control

**Arrows** Used to highlight different items in the TV menu and to adjust the menu controls.

**Number Buttons** Enter channel numbers. To enter a digital channel with a sub-channel, enter the main channel, then press the SUB CH button to enter the sub-channel and press OK.

**CC** Toggles through the CC settings: *CC Off*, *CC On*, and *CC On When Mute*.

**CH + or CH -** Scans up or down through the current channel list. Press once to change the channel up or down; press and hold to continue changing channels.

**CLEAR** Removes any menu or display from the screen and returns you to normal viewing.

**DVD•VCR** Places the remote in DVD or VCR mode. This button lights when you press a valid button in DVD•VCR mode (see *Modes of Operation* on page 24 for more information).

**FAVORITE** Press to browse the channels set in your *Favorite Channel* list. Go to page 35 for more information.

**FORMAT** Press to change the size of the picture on-screen.

**GO BACK** Returns you to the previous channel.

**GUIDE** Displays an electronic program guide (when available).

**INFO** If no menus are on-screen, displays the channel banner; press again to clear the screen.

**INPUT** Displays the available video input channels- *Watch TV*, *Composite*, *S-Video*, *Composite (Side)*, *S-Video (Side)*, *Component 1*, *Component 2*, *VGA*, *HDMI 1* and *HDMI 2*.

**MENU** Displays the Main menu. If the main menu is displayed, exits the menu; if a sub-channel is displayed, takes you back to the previous menu.

**MUTE** Reduces the TV's volume to its minimum level. Press again to restore the volume. To program this button to work with an audio system, follow the instructions for *Volume Punchthrough Feature* on page 24.

**OK** When in the menu system, selects highlighted items.

**ON•OFF** When in TV mode, turns the TV on or off. If in another mode (SAT•CBL or DVD•VCR) and programmed, will turn the device on or off.

**PRESETS** Toggles through the picture mode settings: *Natural*, *Vibrant*, *Gaming*, and *Personal*.

**REVERSE, PLAY, FORWARD, RECORD, STOP, PAUSE (buttons at bottom of the remote)** If programmed, provides transport control for some remote-controllable VCRs or DVD players.

**SAT•CBL** Places the remote in SAT•CABLE mode. This button lights when you press a valid button in SAT•CBL mode (see *Modes of Operation* on page 24 for more details).

# Using the Remote Control

**SLEEP** Sets the TV to turn off after *30 min*, *60 min*, or *90 min*.

**SOUND** For an Analog channel, switches the sound mode options. For a Digital channel, switches the audio language. In VGA mode, switches to the audio input you selected from the *VGA Sound Source* option.

**SUB CH** When entering a digital channel that has a subchannel, press this button to enter a subchannel. Once the channel is entered, press the OK button to tune to the channel.

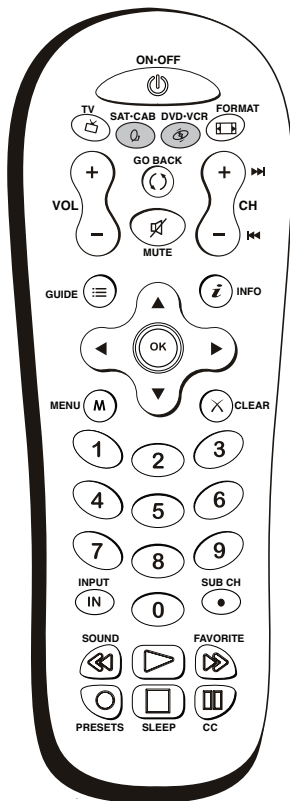
**TV** Turns on the TV and puts the remote in TV mode.

**VOL – or VOL +** Decreases or increases the TV's volume. To program this button to work with an audio system, follow the instructions for *Volume Punchthrough Feature* on page 24.

## Using the INPUT Button

Use the INPUT button to scroll through the available video input channels and view devices you have connected to the TV.

1. Make sure the device you want to view is turned ON.
2. Press INPUT to tune to an available video input source and view the device and press the up or down arrow button to select from the available inputs.
3. To return to the previous channel, press CH+ or CH- button.



*The darkened buttons are the device buttons that can be programmed.*

## Programming the Remote to Operate Other Devices

The universal remote can be programmed to operate many brands of remote-controllable VCRs, audio devices, DVD players, cable boxes, satellite receivers and other devices. In addition to being programmed to operate your television, it's already programmed to operate some RCA devices.

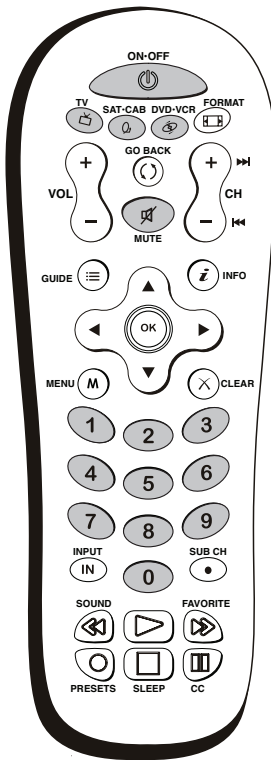
**Notes:** *The TV button can't be programmed on this remote to control any device; it controls only this TV.*

*The remote may not be compatible with all models of all brands of devices. It also may not operate all functions of your device.*

## Find Out If You Need to Program the Remote

To determine whether the universal remote needs to be programmed to operate one of the devices connected to your TV, such as a VCR, do the following:

1. Turn on the device (in this example, a VCR).
2. Point the remote at the device.
3. Press the corresponding device button (in this example, VCR).
4. Press ON•OFF to see if the VCR responds. If the VCR doesn't respond, you need to program the remote to operate it.



**You'll use these darkened buttons for Direct Entry.**

## Programming the Remote

There are three ways to program the remote control to operate other devices: *Direct Entry*, *Manual Code Search*, and *Automatic Code Search*. If you have recently purchased the device you want to control or if the device has many codes, you might want to try the manual code search first.

### Using Direct Entry

1. Turn on the device you want to control.
2. Look up the brand and code number(s) for the device in the code list at the end of this section.
3. On your remote control, simultaneously press and hold the ON•OFF and MUTE buttons (approximately 3 seconds) until a device button remains lit. Then release the buttons.
4. Press and release the device button (SAT•CBL or DVD•VCR) you want to program.
5. Enter a three digit code from the code list.
6. To test the code you've programmed for that device button, point the remote at the device and then press ON•OFF to see if the device responds to the remote control.

If the device turns off, you've entered the correct programming code for your device. Circle the code you entered for future reference.

If the device doesn't turn off, repeat these steps until you've tested all codes for your device's brand or try to run a manual code search.

### Using Manual Code Search

**Note:** Before using manual code search, you must use Direct Entry first. This lets the remote know which type of device to begin searching codes. Then proceed with the following steps.

1. Turn on the device you want to control.
2. On your remote control, simultaneously press and hold the ON•OFF and MUTE buttons (approximately 3 seconds) until a device button remains lit. Then release the buttons.
3. Press and release the device button (SAT•CBL or DVD•VCR) you want to program.
4. Repeatedly press and release the ON•OFF button, watching for the device to respond. If it does turn off, press and release the OK button within 3 seconds to save the code. If you accidentally passed the code before saving it, press the left arrow button to backtrack through the codes; then use the right arrow button to go forward through the codes again.

When all codes have been searched, the device button flashes 3 times, then the remote exits manual code search and returns to normal operation.

### Using Automatic Code Search

1. Turn on the device you want to control.
2. On your remote control, simultaneously press and hold ON•OFF and MUTE (approximately 3 seconds) until a device button remains lit. Then release the buttons.
3. Press and release the device button you want to program.

*continued on next page...*



# Using the Remote Control

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4. Press and release the ON•OFF button once. There is a delay of approximately 6 seconds before the remote starts the code search.  
The device button blinks each time the remote control sends a code to test with your device. Keep pointing the remote at the device.
5. Once the device turns off, quickly press the OK button to save the code.
6. If you accidentally passed the code before saving it, press the left arrow button to back-track through the codes; then use the right arrow button to go forward through the codes again.

When all codes have been searched, the device button flashes 3 times, then the remote exits automatic code search and returns to normal operation.

## How to Use the Remote After You've Programmed It

Once the remote has been programmed successfully, you are ready to use it to operate your devices.

To operate the device:

1. Press the appropriate device button (SAT•CBL or DVD•VCR) to set the remote to control the device, for example, press DVD to control your DVD player.
2. Press ON•OFF to turn the device ON or OFF.
3. Use the remote buttons that apply to that device.

**Notes:** *The remote control may not be compatible with all brands and models of devices.*

## Modes of Operation

The button corresponding to the mode the remote is in lights up when you press any button that works in that mode. For example, if you're in TV mode and you press the VOL+ button, the TV button lights up. This tells you that the command to increase the volume is being sent to the TV (and not the satellite receiver, for example).

## Volume Punchthrough Feature

You may find this feature helpful if you've connected your devices to an audio system, and you want to use the TV's remote control to operate the volume for a device that is connected to the audio system. An example follows:

Let's say you've connected your DVD player to your audio system. You've also programmed your TV remote control to operate your DVD player. Since the DVD player sends its volume through the audio system, you would have to use the audio system's remote to adjust the volume and the TV's remote control to operate the DVD player. The Volume Punchthrough feature eliminates the need for you to use two remote controls and saves a button press when you're using the TV remote to adjust the volume.

After you've successfully set up the Volume Punchthrough feature, whenever the TV remote is in DVD mode (press the DVD button) and you want to adjust the volume, you only have to press the VOL +/- or MUTE buttons. Follow the instructions below to set up Volume Punchthrough.



# Using the Remote Control

1. On your remote control, simultaneously press and hold the ON•OFF and MUTE buttons (approximately 3 seconds) until a device button remains lit. Then release the buttons.
2. Press and hold the MUTE button until the device button blinks off, then release the MUTE button.
3. Press and release the device button that you programmed to operate the audio system (receiver or amplifier).
4. Press and release the MUTE button.
5. Now, test it by turning on your audio system.
6. Turn on the device that is connected to the audio system (satellite receiver, for example).
7. Put the TV's remote in SAT•CBL mode by pressing the SAT•CBL button.
8. Press VOL+ or VOL-. The volume from the audio system should increase or decrease accordingly.

## Deleting ALL Volume Punchthrough Commands

To delete all programmed Volume Punchthrough settings and return the remote control back to the factory defaults:

1. Simultaneously press and hold the ON•OFF and MUTE buttons (approximately 3 seconds) until a device button remains lit. Then release the buttons.
2. Press and hold the MUTE button until the device button blinks off, then release the MUTE button.
3. Press and release the MUTE button until the device button light turns off.
4. The remote returns to normal Volume/Mute control.

## Remote Code List

**Note:** The codes are programmable to any of the device buttons (SAT•CBL or DVD•VCR) on the remote.

### Audio Codes

AIWA .....	839 842 851 860
APEX .....	436
BOSE .....	672
CARVER .....	825
CITIZEN .....	826
CRITERION .....	448
DENON .....	803 817 852
DELPHI .....	708
FISHER .....	814 821
GOLDSTAR .....	766
HARMAN KARDON .....	804 818
JVC .....	790 813 819
KENWOOD .....	683 808 816 828 832 869
KOSS .....	415
MAGNAVOX .....	796 814 915 756
MARANTZ .....	688 824
MITSUBISHI .....	877
NAD .....	721 739 743
NEO .....	725
NORCENT .....	907
ONKYO .....	805 811 812 892
OPTIMUS .....	667 747 748 749 751 752 754 793
PANASONIC .....	791 810 815 823 863 864 891 950
PHILIPS .....	755 814 823 824 825
PIONEER .....	837 866 867 878 893
RADIO SHACK .....	706 754 793 806 865 866 867 868 875 878 879
RCA .....	717 726 772 781 795 827 845 866 867 870 871 872 875 878 879 449 895
REALISTIC .....	822
SABA .....	894
SAMSUNG .....	454
SANYO .....	705
SCOTT .....	768
SHARP .....	671 684 809

SHERWOOD .....	706 806 858 859
SKYFI .....	725
SONY .....	323 778 779 785 797 798
TAO .....	725
TEAC .....	710 807 855 856 857
TECHNICS .....	791 810 815 823 863 864
TEVION .....	448
VENTURER .....	745
XM RADIO .....	708 725
YAMAHA .....	801 802 838 840 841 846 847 848 849
ZENITH .....	676 730 749 759 765 766 784 814 787 850 405

### Cable

ABC .....	461 464 465 466 463
ADELPHIA .....	512 511
ALLEGRO .....	525 524
AMERICAST .....	527
ANTRONIX .....	468 469
ARCHER .....	468 469 470 471
AT&T .....	511
BELL SOUTH .....	527
CABLETENNA .....	468
CABLEVIEW .....	468
CABLEVISION .....	506
CENTURY .....	471
CITIZEN .....	471
COGECO .....	511
COLOR VOICE .....	472 473
COMCAST .....	511
COMTRONICS .....	474 475
CONTEC .....	476
DIGITAL MUSIC EXPRESS .....	514
EASTERN .....	477

EVERQUEST .....	474
GARRARD .....	471
GC ELECTRONICS .....	469
GEMINI .....	536 479
GE .....	549
OAK .....	476 489
PACE .....	532
PANASONIC .....	460 508
PARAGON .....	486 488
PHILIPS .....	471 479 485 490 491 492
PHILIPS-MAGNAVOX .....	505 534
PIONEER .....	478 506 493 494
PULSAR .....	486
RADIO SHACK .....	505 534 525
RCA .....	460 471 507
REALISTIC .....	469
REGAL .....	482
REGENCY .....	477
REMBRANDT .....	463
ROGERS .....	506
RUNCO .....	486
SAMSUNG .....	474 494
SCIENTIFIC ATLANTA .....	498 497 506 535 512 466 496
SHAW .....	511
SIGNAL .....	474
SIGNATURE .....	463
SL MARX .....	474
SPRUCER .....	460
STANDARD .....	499
STARCOM .....	461 518
STARGATE .....	474
STAR SIGHT .....	507
STAR TRAK .....	516
TANDY .....	500
TELEVIEW .....	474

# Using the Remote Control

TEXSCAN	499
TIME WARNER	506
TOCOM	464 513 520 501
TOSHIBA	486
TV86	487
UNIKA	468 469 471
UNITED CABLE	461
UNIVERSAL	468 469 470 471 502 524
VIDEOWAY	504
VIDEOTRON	506
VIEWSTAR	475 485 487 500
VIDEO TECH	550
ZENITH	503 525 471 486 521 522 523
ZENITH NETWORK	527

## CD

ADC	660
ADCOM	661 714
AIWA	663 707 842
AKAI	715 737 830
AUDIO TECHNICA	665
CALIFORNIA AUDIO LABS	716
CAPETRONIC	669
CARVER	666 667 668 825
CASIO	777
CITIZEN	826
CURTIS MATHES	777
DENON	670
EMERSON	661 673
FISHER	667 675 676 677 718
GENEXXA	673 678 719
GOLDSTAR	720
HARMAN KARDON	680 691
HITACHI	678
INKEL	681
JC PENNEY	690 777
JVC	682 813
KENWOOD	679 683 685 727 728 828
KRELL	666
KYOCERA	660
LUXMAN	686 687 729 738
LXI	777
MAGNAVOX	666 731 800
MARANTZ	666 688 689 732
MCS	690 777
MGA	691
MISSION	666
MITSUBISHI	691 692
NAD	721 743
NAKAMICHI	693 694 831
NEC	690
NIKKO	665 673 676
NSM	666
ONKYO	695 696 722 811
OPTIMUS	667 668 678 679 697 698 699 700 744 747 751
PANASONIC	716 733 740 820 862
PHILIPS	666 731 825
PIONEER	678 701 702 719 750 837 876
PROTON	666
QUASAR	716
RADIO SHACK	668 699 706 750 786 868 874 876
RCA	661 667 703 723 750 795 844 873 874 876
REALISTIC	661 667 669 673 678 689 697 699
ROTEL	666
SAE	666
SAMSUNG	741
SANSUI	666 704 723 734
SANYO	667 705 718 735 742
SCOTT	661 673
SEARS	679 689 777
SHARP	679 689
SHERWOOD	681 689 698 706 859
SHURE	690
SONY	707 792 794 800
STS	660
SYLVANIA	666
SYMPHONIC	709
TEAC	676 689 699 709 710 711 856
TECHNICS	716 733 820 862
THETA DIGITAL	731
TOSHIBA	721
VICTOR	682
YAMAHA	665 712 713 724 846
ZENITH	676 730 759 784 850

## DVD

ADVENT	922
AFREY	417
AIWA	414

AKAI	395 435
AMES	431
AMW	917 918
ANABA	961
APEX	386 390 391 392 424 430 436 439 445 457 459 938 949 913 401
ASPIRE	933
A-TREND	393
AUDIOVOX	921
AXION	921
B & K	978
BLAUPUNKT	430
BODYSONIC	417
BOSE	672
BROKSONIC	394 932 967
CENTRIOS	951
CHANGHONG	401
CINEVISION	405
CLASSIC	401 431
COBY	926 946 947 916 445 928 894
CONCEPT	430
CRITERION	448
CURTIS INTERNATIONAL	929 928
CYBERHOME	393 985 939
CYTRON	446 388
DAEWOO	440 441 444 971 965
DENON	400 421
DENZEL	428
DESAY	958
DIAMOND VISION	948 892 896
DIGIX	934
DIGITREX	445
DISNEY	458
DUAL	447 984 956 428 446
DURABRAND	449 405
DVD 2000	402
ELTA	434 435
EMERSON	405 456 458 940 899
ESA	956
FARENHEIT	960
FISHER	416
FUNAI	456 458
GE	409 430
GOLDSTAR	405
GO-VIDEO	407 426 455 431 937 971 454 902 901
GPX	936 944
GRADIENTE	415
GREENHILL	430
HAAS	451 452
HAIER	935
HARMAN KARDON	427
HITACHI	404 407 419 428
HITEKER	445
HUMAX	912
ILO	959
INFINITY	417
INSIGNIA	405 456 905 921 430
INITIAL	430
INTEGRA	422
JBL	427
JVC	406 418 923 964 900
JWIN	390 893 895
KAWASAKI	945 449
KENWOOD	400 429
KISS	428
KLH	430 906 386
KONKA	410 411 412 413 905
KOSS	415 388
KXD	894
LASONIC	451 948
LENOXX	931 435
LG	405 972 907
LINN	443
LITEON	982 902 898
MAGNAVOX	398 408 979 981 980 456 915 914 969
MARANTZ	398 405 408 423 981
MAXENT	923
MEDION	911 446 903 896
MEMOREX	446
MICROSOFT	409
MINTEK	430
MITSUBISHI	402
MUSTEK	431
MYRON & DAVIS	962
NAD	405 433
NAKAMICHI	432
NESA	430
NEXSTECH	952 954 955 956
NORCENT	926 982 927 925 928
ONKYO	422 975
OPTIMUS	404

ORION	394
ORITRON	415
PANASONIC	387 396 400 437 974 950 970
PACIFIC	446
PHILIPS	398 408 423 755 979 981 980 456 458 969
PHILIPS-MAGNAVOX	398 408 423 979 980
PIONEER	403 404 976 977 968 909
POLAROID	385 949 957
POLK AUDIO	398 408 981
PORTLAND	435
PROLINE	415
PROSCAN	409 890
PROSONIC	926
RADIO SHACK	449 453 919 920
RCA	409 430 449 453 920 890
REGENT	931
REOC	451
ROSEN	930
ROTEL	406
SABA	919
SAMSUNG	407 454 455 942 963 891
SAMPO	417
SANSUI	394
SANYO	416 904
SEARS	394 456
SEG	428
SHARP	397 897
SHERWOOD	425
SHINCO	430
SHINSONIC	430
SONIC BLUE	937
SONY	987 988 989 389 399 986
SOUNDSTORM	910 911
SUNGALE	953
SUPERSCAN	456
SV2000	456
SYLVANIA	456 458
SYMPHONIC	456 458 899
TEAC	404 449
TECHNICS	400
TECHWOOD	433
TERAPIN	943
TEVION	388 446 447 448 450 451 452
THETA DIGITAL	404
TIVO	912 909
TOSHIBA	394 398 973 924 983
TREDEX	941
UNITED	449
VENTURER	449
WHARFEDALE	442 417
WHITE WESTINGHOUSE	458
X-BOX	409
XENIUS	388
YAMAHA	400 420 979 980
YAMAKAWA	438 428
ZENITH	405 907

## DVD/VCR Combo Codes

Where the code is listed as [### #] the first is for the DVD and the second is for the VCR. Otherwise just the one code operates both the DVD and the VCR.

APEX	949
BROKSONIC	394 967
CINEVISION	[405 245]
DAEWOO	971
DIAMOND VISION	896
DURABRAND	[405 245]
EMERSON	456 [458 227]
FISHER	[416 267]
FUNAI	456 [458 227]
GO-VIDEO	407 426 455 971
HITACHI	[419 227]
INSIGNIA	[405 245]
JVC	418
LG	907
MAGNAVOX	456 [914 286] [969 286]
MEDION	896
PANASONIC	437
PHILIPS	456 [969 286]
POLAROID	949
RCA	[409 255]
SAMSUNG	455 963
SANSUI	394
SANYO	[416 267]
SEARS	394
SONY	389
SYLVANIA	456 [458 227] [458 236]
SYMPHONIC	456 [458 227] [899 236]
TOSHIBA	924
WHITE WESTINGHOUSE	[458 227]

# Using the Remote Control

ZENITH .....[405 245]

## DVR/DVD Combos

HUMAX .....912  
 PANASONIC .....387  
 PIONEER .....909 977  
 TIVO .....912 909  
 TOSHIBA .....983 973

## DVR Codes

Where codes are shown like this [###] each one can be used if you have 2 or more of the SAME device.

AT&T .....373  
 HUGHES .....580  
 HUMAX .....912  
 PANASONIC .....373  
 PHILIPS .....[371] [344] [345]  
 PIONEER .....909 977  
 RCA .....409  
 REPLAYTV .....373  
 SONIC BLUE .....373  
 SONY .....372 657  
 TIVO .....371 372 344 345 657 983 912 909  
 TOSHIBA .....983

## DVR/Cable Combos

CABLEVISION .....506  
 ILLICO .....506  
 PIONEER .....506  
 ROGERS .....506  
 SCIENTIFIC ATLANTA .....506  
 TIME WARNER .....506  
 VIDEOTRON .....506

## DVR/SAT Combos

BELL EXPRESSVU .....647 655  
 DISH NETWORK .....655 647  
 DREAMBOX .....620  
 ECHOSTAR .....655 647  
 EXPRESSVU .....647 655  
 FORTEC STAR .....569 555 556  
 HUGHES NETWORK .....621 580  
 RCA .....653  
 PHILIPS .....621  
 PROSCAN .....653  
 SAMSUNG .....583  
 SONY .....657 659  
 ULTIMATE TV .....653 659  
 ZENITH .....656

## Home Theatre in a Box

Where the code is listed as [### ####] the first is for the DVD and the second is for the AUDIO. Otherwise just the one code operates both the DVD and the AUDIO.

AIWA .....[414 839]  
 AMW .....918  
 APEX .....436  
 BOSE .....672  
 CRITERION .....448  
 DURABRAND .....449 405  
 EMERSON .....940  
 JVC .....964  
 KLH .....906  
 KOSS .....415  
 LENOXX .....931  
 LG .....972  
 MAGNAVOX .....915 [969 756] [408 756]  
 MYRON & DAVIS .....962  
 NORCENT .....928  
 ONKYO .....975  
 PANASONIC .....974  
 PHILIPS .....755 [969 756]  
 PIONEER .....976 968  
 RADIO SHACK .....449 894 895 [453 879]  
 RCA .....449 920 [453 879]  
 REGENT .....931  
 SABA .....919  
 SAMSUNG .....454 942  
 SONY .....986  
 TEVION .....448  
 ZENITH .....[405 787]

## Satellite/DTV Receivers

Where codes are shown like this [###] each one can be used if you have 2 or more of the SAME device or brand.

AMPLICA .....575  
 BELL EXPRESSVU .....654 647 655 628  
 CHANNEL MASTER .....577 578 579  
 CHAPPARAL .....560 561  
 CHEYENNE .....561  
 DRAKE .....562 574 587  
 DREAMBOX .....620  
 DIRECTV .....622 632 629 621 623 576 586 616 613 630  
 634 636 638641 652 653 657 659 607 619 641  
 DISH NETWORK . [655] [647] 628 612 654 588 589 590  
 DISHPRO .....588 589 590 654  
 DX ANTENNA .....568 582  
 ECHOSPHERE .....628  
 ECHOSTAR .....[655] [647] 628 612 654 588 589 590  
 EXPRESSVU .....654 647 655 628  
 FORTEC STAR .....569 555 556 557 558 559  
 FUJITSU .....591 592  
 GE .....636 649 637 622 653 650 651 652  
 GEMINI .....595  
 GENERAL INSTRUMENT (GI) [627] [642] [643] [644] 648  
 640 645 564 565 566 593  
 GO VIDEO .....610  
 HITACHI .....638 629 630 632 641 607  
 HUGHES NETWORK 621 641 607 580 [632] [638] [629]  
 [630]  
 JVC .....628  
 KENWOOD .....598  
 LUXOR .....599  
 MAGNAVOX .....576 612 639  
 MACOM .....600  
 MITSUBISHI .....641 632 638 629 630 607  
 MOTOROLA .....648 618  
 NORSTAT .....601  
 PACE .....614 615 646  
 PANSAT .....584  
 PANASONIC .....626 586 596  
 PRIMESTAR .....627 640  
 PHILIPS .....576 612 621 629 630 632 638 641 607 639  
 PHILIPS-MAGNAVOX .....576 612 639  
 PIONEER .....604  
 PROSAT .....563  
 PROSCAN .....636 637 650 653 651 652  
 RCA .....[636] 649 [637] 622 658 653 650 651 652 098  
 REALISTIC .....567 603  
 SAMSUNG .....594 583 613 616 619  
 SHARP .....604  
 SKY NETWORK .....614 615 646  
 SIERRA I II III .....561  
 SONY .....623 657 659 602  
 STARCHOICE .....640 645 627  
 STAR SIGHT .....633  
 STAR TRAK .....608  
 STS .....568 570 571  
 SUPER GUIDE .....609  
 SYLVANIA .....581  
 TOSHIBA .... 641 632 638 629 630 607 572 624 625 631  
 ULTIMATE TV .....653 659  
 UNIDEN .....633 573 611  
 UNITED .....597  
 VIDEO CIPHER II .....574  
 WEB TV .....612 585  
 ZENITH .....617 634 656 595 646 562 574 587 635

## VCR Codes

Where codes are shown like this [###] each one can be used if you have 2 or more of the SAME device or brand.

ACCELE .....354  
 ADMIRAL .....226  
 ADVENTURA .....251  
 AIKO .....252  
 AIWA .....245 227 269 251  
 AKAI .....227 229 228 230 231 254 303 337  
 ALLEGRO .....247 329 243  
 AMERICAN HIGH .....292  
 APEX .....949  
 ASHA .....354  
 AT&T .....373  
 AUDIO DYNAMICS .....376 377 234  
 AUDIOVOX .....245  
 BELL & HOWELL .....268  
 BEAUMARK .....354  
 BROKSONIC .....256 250 257 310 394 967 237 289  
 CALIX .....245  
 CANDLE .....240 245 354 234 242 244  
 CANNON .....225 292 339

CAPEHART .....329  
 CARVER .....287  
 CCE .....252 356  
 CINEVISION .....245  
 CITIZEN .....240 245 252 354 234 242 244  
 COLORTYME .....234  
 COLT .....356  
 CRAIG .....245 354 356 248  
 CURTIS MATHES 225 287 227 334 354 358 234 249 292  
 CYBERNEX .....354  
 DAEWOO .....279 240 250 252 334 242 244 251 971  
 DBX .....376 377 234  
 DIAMOND VISION .....896  
 DIMENSIA .....225  
 DURABRAND .....245  
 DYNATECH .....227 251  
 ELECTROHOME .....245 254  
 ELECTROPHONIC .....245  
 EMERSON ... 250 245 252 256 257 290 310 325 354 240  
 233 227 265 266 268 269 456 458 231 237 249 251 254  
 259 262 263 270 289 292 301 330 341  
 FISHER .....304 268 267 287 234 248 273 274  
 FUJI .....229 292  
 FUNAI .....227 456 458 251  
 GARRARD .....251  
 GE .....225 311 335 342 354 278 292  
 GOLDSTAR .....227 245 338 329 346 234  
 GRADIENTE .....251  
 GO-VIDEO .....354 375 407 426 455 971 368  
 HARLEY DAVIDSON .....251  
 HARMAN KARDON .....234 254  
 HARWOOD .....356  
 HEADQUARTER .....268  
 HITACHI .....369 227 347 303 332  
 HI-Q .....248  
 INFINITY .....288  
 INSIGNIA .....245  
 INSTANT REPLAY .....227 292  
 INTEQ .....245  
 JC PENNEY . 225 245 268 354 369 376 377 292 303 332  
 343 234  
 JCL .....292  
 JENSEN .....369 303  
 JVC .....376 377 268 247 418 234 303  
 KENWOOD .....268 376 377 234 303  
 KLH .....356  
 KODAK .....245 292  
 LG .....227 329 338 907  
 LLOYD .....227 251  
 LOGIK .....356  
 LXI .....227 245  
 MAGNAVOX 287 288 329 226 225 456 286 235 227 914  
 969 292  
 MAGNIN .....354  
 MARANTZ .....287 268 376 377 289 292 339 234  
 MARTA .....245  
 MATSUSHITA .....292  
 MEDION .....896  
 MEI .....292  
 MEMOREX .. 287 245 268 304 310 329 354 226 227 337  
 248 251 292  
 MGA .....290 254  
 MGN TECHNOLOGY .....354  
 MIDLAND .....278  
 MINOLTA .....369 332  
 MITSUBISHI .....290 298 369 376 377 254 295  
 MONTGOMERY WARD .....226 300  
 MOTOROLA .....226 292  
 MTC .....227 354 251  
 MULTITECH .....227 354 251 278 356  
 NEC .....268 376 377 289 301 302 303 234 249  
 NIKKO .....245  
 NOBLEX .....354  
 OLYMPUS .....292  
 OPTIMUS .....239 354 363 245 361 374 381 226  
 OPTONICA .....354 300  
 ORION .....256 310  
 PANASONIC .....363 381 374 373 225 437 292  
 PENTAX .....369 234 332  
 PHILCO .....287 225 235 292  
 PHILIPS .....287 288 344 345 371 378 383 456 286 292  
 PHILIPS-MAGNAVOX .....287 288 226  
 PILOT .....245  
 PIONEER .....305 369 376 377 343  
 PORTLAND .....242 244  
 PROSCAN .....225 308  
 PROTEC .....356  
 PULSAR .....329  
 QUARTER .....268  
 QUARTZ .....268

# Using the Remote Control

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QUASAR .....	363 374 225 381 292
RADIO SHACK .....	225 226 227 239
..245 268 342 354 361 363 248 251 254 274 292 300 337	
RADIX .....	245
RANDEX .....	245
RCA ..[225] 245 [308] 309 311 312 313 314 315 316 335	
.....	342
.....	354 369 228 278 292 332
REALISTIC ...225 226 227 245 268 354 361 363 248 251	
.....	254 274 292 300 337
REPLAYTV .....	373
RICOH .....	353
RUNCO .....	329
SAMSUNG .....	354 358 240 369 455 942 963 230 337
SANKY .....	226 329
SANSUI .....	310 376 377 394 256 303
SANYO .....	304 267 268 354 248
SCOTT .....	240 250 257 290 341 237 263
SEARS ...363 245 268 287 369 394 456 248 273 274 292	
.....	332 343
SHARP .....	360 361 226 227 266 242 254 300
SHINTOM .....	229 353 369 356 357
SHOGUN .....	354
SIGNATURE .....	227
SINGER .....	292 356
SONIC BLUE .....	373
SONY ...379 324 229 323 353 389 372 364 365 366 380	
STS .....	369 292 332
SUPERSCAN .....	456
SYLVANIA .....	227 287 290 225 236 456 458 251 292
SYMPHONIC .....	227 236 456 251
TANDY .....	227 268
TASHIKO .....	245
TATUNG .....	303
TEAC .....	227 251 303
TECHNICS .....	292
TEKNIKA .....	227 245 325 251 292
TiVo .....	371 372
TMK .....	354 249 301
TOSHIBA ....240 261 260 287 290 358 369 924 274 341	
TOTEVISION .....	245 354
UNITECH .....	354
VECTOR RESEARCH .....	240 376 377 234
VICTOR .....	376 377
VIDEO CONCEPTS .....	240 376 377 234 254
VIDEOSONIC .....	354
WARDS .225 226 227 240 245 354 369 248 251 254 292	
.....	300 326 332 341 356
WHITE WESTINGHOUSE .....	227 279
XR-1000 .....	251 292 356
YAMAHA .....	376 377 234 303
ZENITH 329 247 252 266 288 226 227 338 347 353 358	
.....	245 229 310 232 232 376 377 279 368 243

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## Web TV

JVC .....	612
SONY .....	585

## Channel Banner

There are several indicators that might appear when you press the INFO button on the remote. This display is called the Channel Banner. The following list describes the items on the Channel Banner screen (left to right and top to bottom).



Analog Channel Banner



Digital Channel Banner

**A Ch 70 LPJ/D Ch 700 BEV** The channel and station you're currently viewing are displayed. An *A* displayed means it's an analog channel; a *D* displayed means it's a digital channel. Digital channels may also display an *HD* (High Definition), *SD* (Standard Definition), or *DT* (Digital Television) at the end of the station.

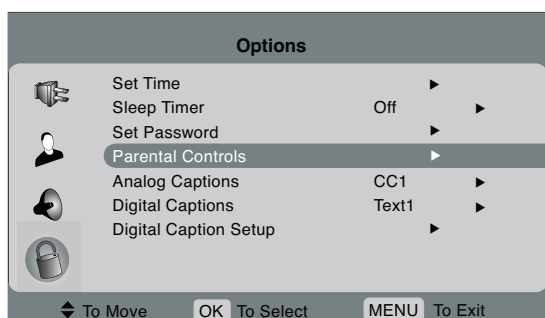
**12:15 PM** Current time that you set under the *Set Time* option in the Options menu.

**Program name** The program name appears, if available.

**480i/1080i** Current program resolution is displayed.

**TV-PG** The program rating appears, if available.

**Stereo** Current audio the channel is broadcasting.



## Parental Controls and V-Chip

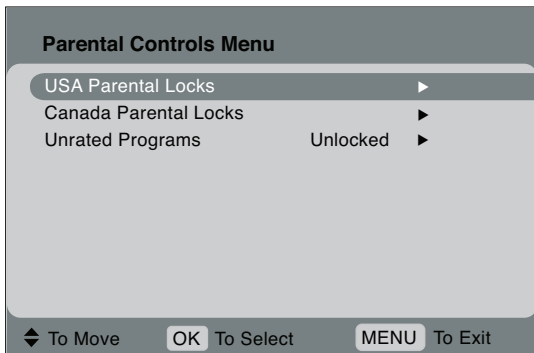
The choices in the *USA Parental Controls* and *Canada Parental Controls* menus involve software inside your TV (referred to as V-Chip) which allows you to block TV programs and movies. TV programs can be blocked by age-based ratings, such as TV-MA, which is explained on page 31. If available, TV programs can also be blocked by content, such as adult language (L). This is explained on page 31. Movies can only be blocked by age-based ratings. This is explained on page 32.

Once you block programs, you can unblock programs by entering a password.

By default, the software inside your TV is turned off or unlocked. For instructions to lock V-Chip, go to the next page.

**Note:** Parental control settings are not available for *HDMI* or *COMPONENT* inputs. These settings must be set in the connected device's parental controls.

# Using the TV's Features



## How V-Chip Works for USA and Canada

V-Chip reads the program's age-based rating (TV-MA, TV-14, etc.) and content themes [(Violence (V), Adult Language (L), etc.)]. If you have blocked the rating and/or content themes that the program contains, you will receive the message *This program is blocked. Press MENU key to enter password.* Go to page 42 for the US and Canada ratings explanations.

Broadcasters are not required to provide content themes, so programs received with no content themes will only be blocked if you block their age-based rating. You can also block out programs that have been given a rating of *None* for TV Ratings, *N/A* or *N/R* for Movies, or *E* (Exempt) for Canadian ratings. Go to page 32 for unrated explanation.

## Lock/Unlock Parental Controls

The default password for Parental Controls is "0000". You probably want to change the password to something less obvious, yet easy for you to remember. To change the password, access the *Options* menu (lock icon) and press the right arrow to enter the menu. Press the up or down arrow button to highlight *Set Password* and press OK. Press 0, 0, 0, and 0 as the old password and then enter the new password you want to use.

If you forget your password, select *Set Password* from the *Options* menu and press OK. Press 3, 4, 4, and then 8. Then enter a new password you want to use.

## The V-Chip Rating Screen

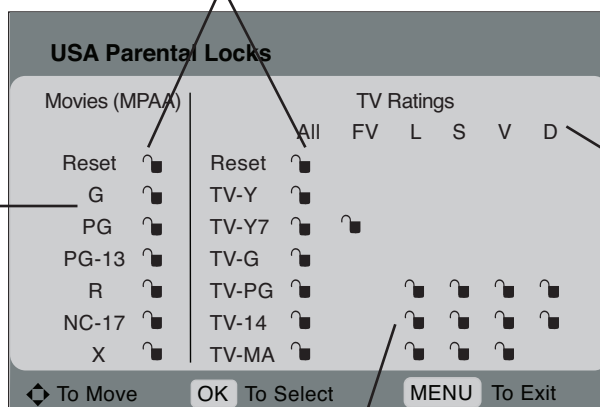
The following is an example of where items are located within the Rating Limit screen.

### Rating Status Field

Lets you select whether the status of the age-based rating limit to the left is locked (🔒) or unlocked (🔓).

### Rating Field

Lets the age-based ratings of Movies and TV programs.



### Content Themes

Lets the content themes of TV programs you can block or view. See next page for explanation.

### Content Status Fields

Lets you select whether the status of the content theme is currently locked (🔒) or unlocked (🔓).



# Using the TV's Features

Hierarchy of Age-Based Ratings	
TV-MA	Mature Audience Only
TV-14	Parents Strongly Cautioned
TV-PG	Parental Guidance Suggested
TV-G	General Audience
TV-Y7	Directed to Children 7 years and older
TV-Y	All Children

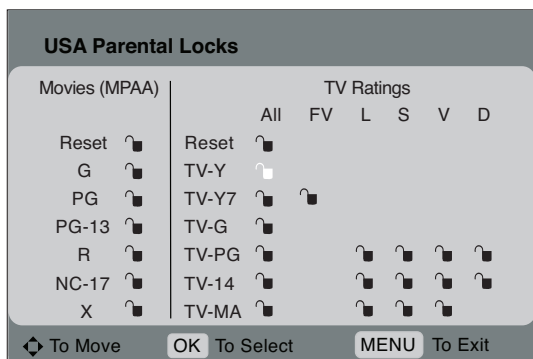
## USA V-Chip TV Ratings

### Blocking Age-Based Ratings

You can automatically block all program ratings above a specified age-based rating level.

1. Choose *Options* (lock icon) from the main menu, then highlight *Parental Controls*. Enter your password.
2. Highlight and select *USA Parental Locks*.
3. Press the left or right arrow button to highlight a TV Rating. Press the up or down arrow button to scroll to the rating corresponding with the lowest rating you do not want the child to watch. In the example to the left, highlight TV-Y.
4. Press the OK button to toggle between locked and unlocked. The status for the rating and all higher ratings automatically lock.

To view age-based ratings after you've locked them, follow the same steps as above to unlock.



Content Themes	
D	Sexually explicit dialogue
L	Adult language
S	Sexual situations
V	Violence
FV	Fantasy Violence

### Blocking Specific Content Themes

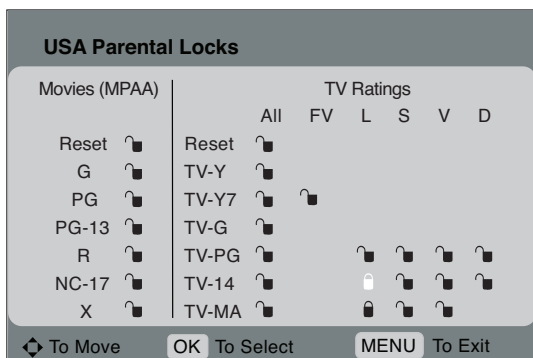
You can block programs based on their content. (Content is represented by the *FV*, *L*, *S*, *V* and *D* on your screen.) When you block a content theme for a particular rating, you automatically block that content theme for higher rated programs as well.

To block program content:

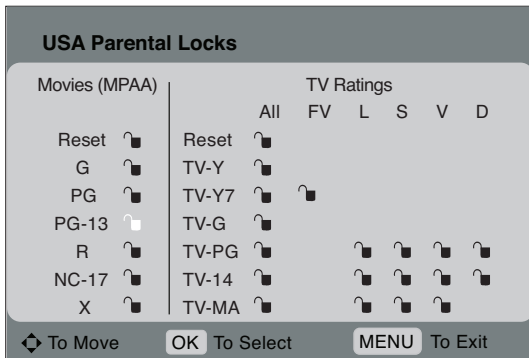
1. Determine the content theme you want to block.
2. Press the down arrow button to scroll to the rating whose content theme you want to change.
3. Press the right arrow button to move the highlight to a particular content theme. In the example to the left, highlight the language (L) corresponding with TV-14.
4. Press the OK button to change its status to lock. The language for TV-MA is blocked as well.

**Notes:** Broadcasters are not required to provide content themes or age-based ratings.

To view a content theme after it's been locked, follow the same steps as above to unlock. Note that if you unlock the language corresponding with TV-14, the language for TV-MA doesn't unlock. You have to unlock the content theme status for each rating separately.



# Using the TV's Features



## V-Chip Movie Rating Limit

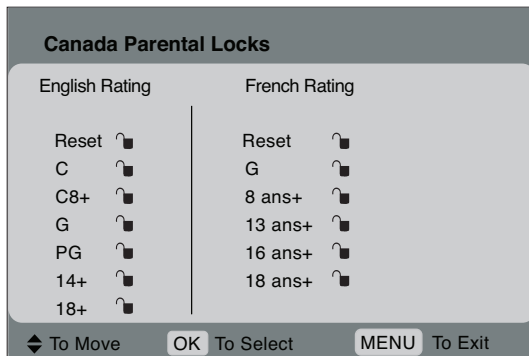
Set movie rating limits by blocking movies rated above a specified level.

To access Movie Ratings:

1. Press MENU on the remote control.
2. Choose Options (lock icon) from the main menu, then highlight *Parental Controls*. Enter your password.
3. Highlight and select *USA Parental Locks*.
4. The Movie Ratings appear on the left side of the menu. Press the up or down arrow button to highlight a rating.

## Blocking Movie Ratings

Once you are in the *Movie ratings* menu, follow the same steps described for blocking USA age-based ratings.

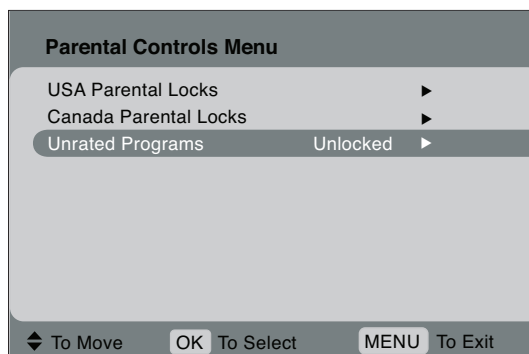


## Blocking Canadian V-Chip Ratings

If you receive Canadian programs you can block Canadian English and French V-Chip by ratings only. When you block a particular rating, you automatically block the higher rated programs as well.

To block Canadian English and French program ratings:

1. Select *Canada Parental Locks* from the *Parental Controls* menu.
2. Determine the rating you want to block from *English* on the left or *French* on the right.
3. Press the down arrow button to scroll to the rating you want to change.
4. Press the OK button to change its status to block (all ratings above the one you selected change to block).



## Blocking Unrated/Exempt Programs

Unrated TV programs may include news, sports, political, religious, local and weather programs, emergency bulletins, public announcements, and programs without ratings. Programs that have no rating or have been given a rating of *None* for TV Ratings, *N/A* or *N/R* for Movies, or *E* (Exempt) for Canadian ratings can be blocked using the *Unrated Programs* option.

## Future Rating Region

You might notice an option in the Parental Controls menu that wasn't there before. This is because broadcasters have the capability to add a new rating system for TV programs. These ratings let you define additional parameters for parental controls. This option and its name are dependent on the content acquired from the broadcaster.

**Note:** *These ratings are available only if the broadcaster is sending them.*



## Additional Features

There are additional features available unrelated to Parental Controls. These features can be found in other menus.

### **EN-V** ENHANCED NATURAL VISION Picture Processing

With a focus on exceptional picture performance, all RCA models feature Enhanced Natural Vision (EN-V). EN-V picture processing is designed to provide enhanced color and contrast so you can enjoy a bright, crisp picture.

Go to page 35 to adjust picture settings.

## Screen Formats

Screen format is the way the picture is displayed on your TV. Press the ZOOM +/- button on your remote to see if a different format is available for the video you are viewing. The format changes as you press the FORMAT button and the format type is displayed at the bottom of the screen.

Analog video is sent in a 4/3 format, which your TV displays in a 16/9 format. Most digital video is sent in a 16/9 format which does fill your screen, but sometimes is sent in 4/3 which does not fill your screen. It depends on how the station or device connected to your TV is formatting the video. If there are bars on-screen, press the FORMAT button to try a different format that may eliminate the bars. Some bars can't be removed because of the way the format is sent by the broadcaster.

The different formats available and what they look like follow. Each format is available for analog video, but might not be available for digital video.



Normal 4/3



Normal 16/9



Zoom

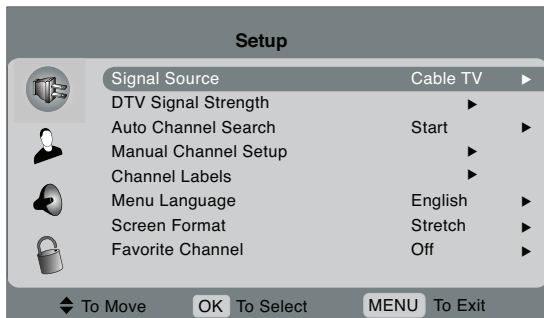


Stretch



Center

# Chapter 4: Using the TV's Menu System



## Using the Menu System

This section explores the menus of your TV. Each menu is outlined and detailed to help you get the most from your TV. The *Parental Controls* menu is discussed in the Features chapter.

To access the menu system:

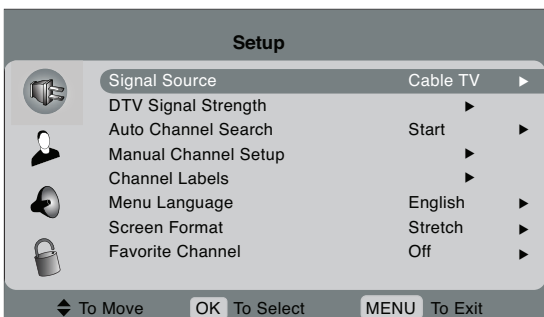
1. Press the MENU button.
2. Use the up and down arrow buttons to highlight an icon on the left and press the right arrow button to enter the menu. The name of the menu is displayed at the top of the menu screen.
3. Press the up and down arrow buttons to move to a different option within the menu. If necessary, press the OK button or right arrow to display the choices of the option you've highlighted or toggle through available options. If available, use the information at the bottom of the screen for help.
4. To adjust controls, such as picture setting options, highlight the option and press OK. The option appears on the bottom of the screen so you can see the option change as you adjust it.
5. To return to the previous menu, press the MENU button.

**Note:** Options in the menus that are grayed-out and can't be highlighted are unavailable or in progress.

Descriptions of each menu are discussed in the order they appear.

There are two ways to exit a menu:

- Press the CLEAR button. The menus are cleared from the screen and you return to TV viewing.
- Press the MENU button repeatedly until the menu disappears.



## Setup Menu

The Setup menu lets you configure the TV to fit its surroundings and your preferences. To access the *Setup* menu (plug icon), press MENU on the remote (the *Setup* icon is highlighted). Press the right arrow button or OK to enter the menu.

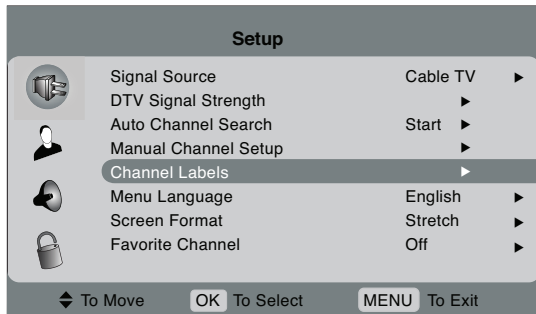
**Signal Source** If you connected cable to the ANTENNA/CABLE INPUT, select *Cable TV*. If you connected an antenna to the ANTENNA/CABLE INPUT, select *Air (Antenna)*.

**DTV Signal Strength** Displays the signal strength of the digital channel that the TV is currently tuned to.

**Auto Channel Search** Searches for channels the signal is receiving. Go to page 15 for more information.

**Manual Channel Setup** Displays the channel list, allowing you to add or delete channels. If a channel is *Hidden* and you want it viewable as you change channels, select *Viewable*. If a channel is *Viewable* and you don't want it to appear as you change channels, select *Hidden*.

# Using the TV's Menu System

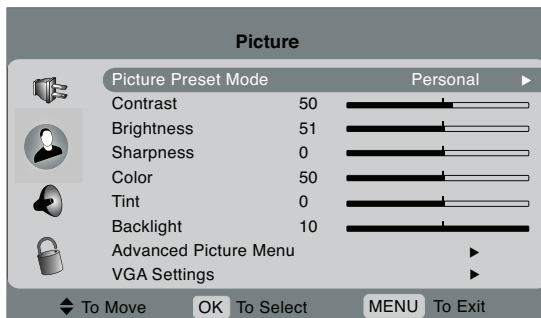


**Channel Labels** Allows you to add or change a seven character label to a channel, which is displayed on-screen when you tune to the channel. Press the up and down arrow button to scroll through the available characters. Continue to press the right arrow button to highlight the next space to add another character.

**Menu Language** Allows you to change the language of the menu system.

**Screen Format** Allows you to change the format of the screen. If there are bars on-screen try a different format, if available, that may eliminate the bars. Choose between *Normal*, *Zoom*, *Stretch*, and *Center*.

**Favorite Channel** The channel you're tuned to is saved as a favorite channel when you turn the setting *On*. You can have up to 10 favorite channels. Then use your FAVORITE button on the remote to scroll through your favorite channels.



## Picture Menu

The *Picture* menu contains menus and controls to configure how the picture looks. To access the Picture menu (person icon) press MENU on the remote, and then press the down arrow button to highlight the Picture icon. Press the right arrow button or OK to enter the menu. Picture options can be applied to each input- VIDEO (side and rear), S-VIDEO (side and rear), COMPONENT 1 and 2, VGA, and HDMI 1 and 2.

**Picture Preset Mode** Displays a choice list that lets you select one of the preset picture settings: *Natural*, *Vibrant*, *Gaming*, or *Personal*. Choose the setting that is best for your viewing environment.

**Contrast** Adjusts the difference between the light and dark areas of the picture.

**Brightness** Adjusts the brightness of the picture.

**Sharpness (not available in VGA mode)** Adjusts the crispness of the edges in the picture.

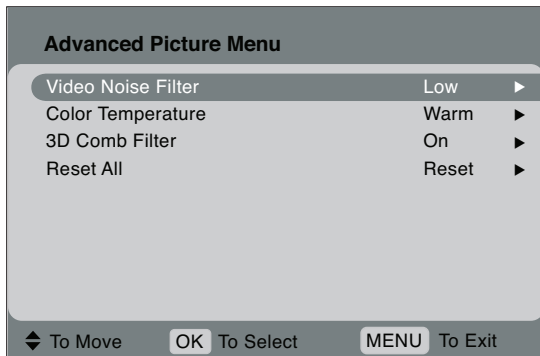
**Color (not available in VGA mode)** Adjusts the richness of the color.

**Tint (not available in VGA mode)** Adjusts the balance between red and green levels.

**Backlight** Adjusts the level of light, depending on your room setting.

**Note:** When you change any of these picture settings, the *Picture Preset Mode* changes to *Personal*.

# Using the TV's Menu System



## Advanced Picture Menu

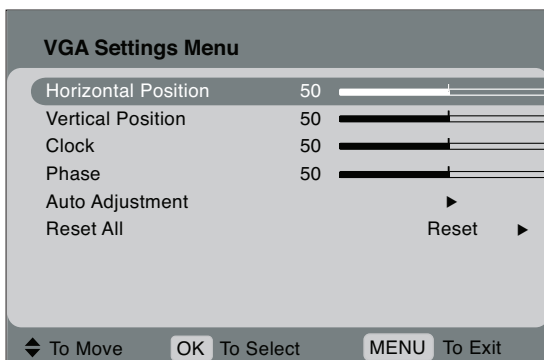
**Video Noise Filter** Reduces picture “static” or any type of interference. This feature is especially useful for providing a clearer picture in weak analog signal conditions. Choose between *Off* for no noise reduction; *Low* for a softer, smoother picture that retains picture sharpness and detail; *Medium* for a slightly softer picture than the *Low* setting; *High* for an even softer, smoother picture than the other settings (the picture detail is somewhat decreased).

**Note:** Video noise filter is available for the COMPONENT VIDEO 1 or 2 inputs only if the signal is 480i.

**Color Temperature** Adjusts to make the picture appear more red or blue. Choose *Warm* for more red, *Normal* for standard picture, and *Cool* for more blue.

**3D Comb Filter** If you have a device connected to the VIDEO INPUT, helps to correct detail and color loss. Turn the option *On* for improved video.

**Reset All** Restores Advanced Picture Menu to the default settings.



## VGA Settings (only available in VGA mode)

**Horizontal Position** Adjusts the picture's position left or right.

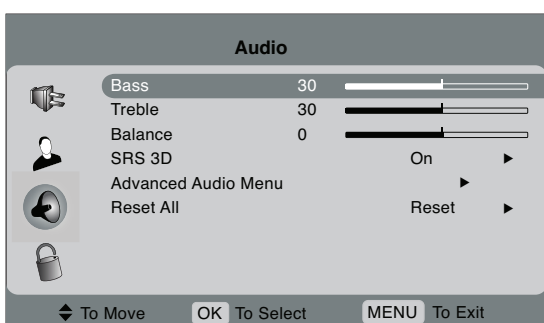
**Vertical Position** Adjusts the picture's position upward or downward.

**Clock** Adjusts the clock sync of the picture.

**Phase** Adjusts the picture if there is flicker of screen letters, color misalignment, or blurring.

**Auto Adjustment** Adjusts the position of the picture automatically. Try it if the picture on the VGA input doesn't look right.

**Reset All** Restores VGA Settings menu to the default settings.



## Audio Menu

The Audio menu lets you adjust audio output. To access the Audio menu (speaker icon), press MENU on the remote, and then press the down arrow button to highlight the Audio icon. Press the right arrow button or OK to enter the menu. The following audio items can be adjusted:

**Bass** Increases or decreases the bass of the sound.

**Treble** Increases or decreases the treble of the sound.

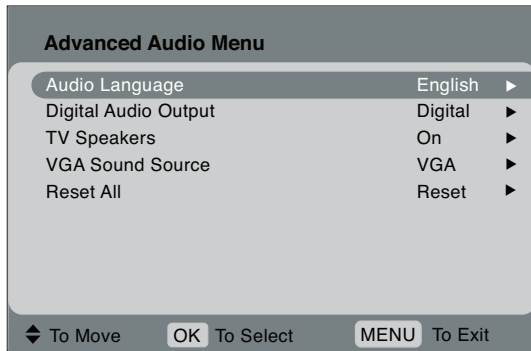
**Balance** Adjusts how much audio is sent to the left and right speakers.

**SRS (SRS 3D)** Retrieves and restores the spatial information that's lost during ordinary audio compression of stereo recording and restores the original to three-dimensional sound field.

3D, SRS, and (SRS) symbol are trademarks of SRS Labs, Inc.

3D technology is incorporated under license from SRS Labs, Inc.

# Using the TV's Menu System



## Advanced Audio Menu

**Audio Language (only available on digital channels)** Press the right arrow to choose from the audio languages available for the program you're watching. The language you choose becomes your preferred audio language for all channels on the digital tuner until you turn the TV off. If the language you choose here is not being broadcast with a program, then the TV plays the default audio for the program (usually English in the U.S.).

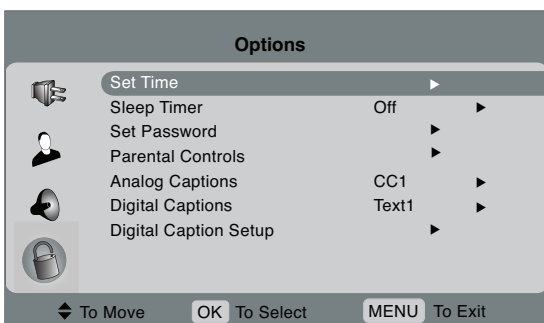
**Digital Audio Output** Lets you choose a setting for the DIGITAL AUDIO OUTPUT jack. Choose *Digital* to receive Dolby Digital sound if transmitted and you've connected a six-channel receiver to the TV's output jack. Choose for *PCM* if your audio receiver only handles PCM.

**TV Speakers** Turn on or off the internal speakers. If you have an audio amplifier device connected to the DIGITAL AUDIO OUTPUT jack on the back of the TV and you want to control the sound by the audio amplifier device instead, turn the option *Off*.

**VGA Sound Source** Allows you to listen to the audio from the VGA, COMPOSITE (side and rear), or COMPONENT 1 or 2 inputs while tuned to the VGA input. Make sure the device connected to the input is turned on and the audio you want to hear is playing.

**Reset All** Restores the Advanced Audio Menu to the default settings.

**Reset All** Restores the Audio Menu to the default settings.



## Options Menu

The Options menu lets you adjust additional options for the TV. To access the Options menu (lock icon), press MENU on the remote, and then press the down arrow to highlight the Options icon. Press the right arrow button or OK to enter the menu. The following options can be adjusted:

**Set Time** Lets you set the time zone and time.

**Time** Press the left or right arrow to set the time. The AM and PM setting changes when you get to 12 o'clock.

**Note:** If your TV loses power, you need to reset the time.

**Sleep Timer** Lets you set the TV to turn off after a given amount of time. Choose between *Off*, *30 min*, *60 min*, or *90 min*.

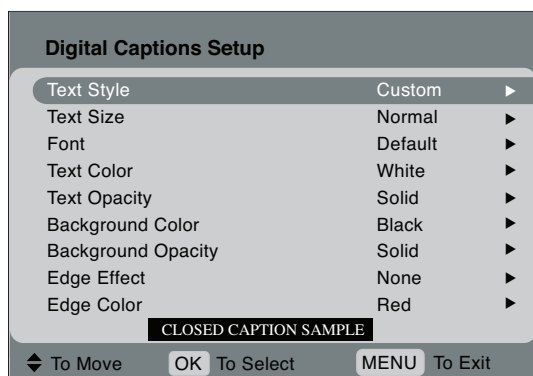
**Set Password** Set the password used to lock parental controls. Go to page 30 for more information.

**Parental Controls** The Parental Controls menu was explained in Chapter 2. Go to page 29 for more information.

**Analog Captions** Many programs are encoded with closed-captioning information, which lets you display the audio portion of a program as text on the TV screen. If you are unsure of the differences among the modes, you may prefer to leave the closed captioned mode set to CC1, which displays complete text of the program in the primary language in your area.

Note that Closed captioning is not available on all channels at all times. Only specific programs encoded with closed-captioning information.

# Using the TV's Menu System



**Digital Captions** If available, lets you select a closed caption mode for digital channels. Use *Service1* if you are unsure what to use.

**Digital Captions Setup** Customize the digital captions. A sample of how the digital captions might look appears at the bottom of the screen. The options are:

**Text Style** If you want to customize the digital closed caption options, choose *Custom*. Choose *As Broadcast* to have the options set for you.

The following options are only available if you chose *Custom* as your Text Style:

**Text Size** Lets you set the size of the digital closed-caption text. You can choose *Small*, *Normal*, or *Large*.

**Font** Lets you select a character design for the digital closed-caption text. A font is a complete assortment of letters, numbers, punctuation marks, etc. of a given design. You can choose from a variety of fonts.

**Text Color** Lets you choose the color of the digital closed-caption text: *Red*, *Green*, *Blue*, *Yellow*, *Magenta*, *Cyan*, *Black*, or *White*.

**Text Opacity** Lets you set the appearance of the digital closed-caption text: *Transparent*, *Translucent*, *Solid*, or *Flashing*.

**Background Color** Lets you choose the color of the area behind the digital closed-caption text: *Red*, *Green*, *Blue*, *Yellow*, *Magenta*, *Cyan*, *Black*, or *White*.

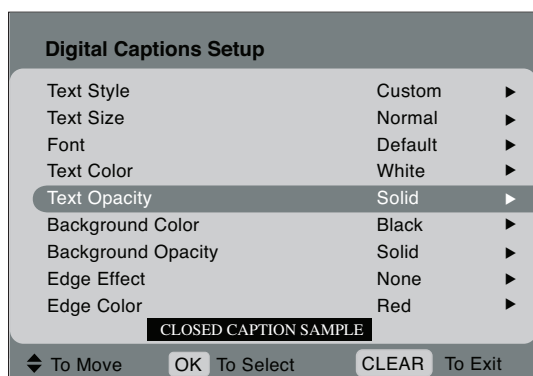
**Background Opacity** Lets you choose the opacity of the area behind the digital closed-caption text: *Transparent*, *Translucent*, *Solid*, or *Flashing*.

**Edge Effect** Lets you set the effect of the font's edge: *None*, *Raised*, *Depressed*, *Uniform*, *Left Shadow*, or *Right Shadow*.

**Edge Color** Lets you set the edge effect's color: *Red*, *Green*, *Blue*, *Yellow*, *Magenta*, *Cyan*, *Black*, or *White*.

**Note:** These captioning style options only have an effect on true digital closed captions.

*Not all captioning on digital channels is digital captioning—it depends on what the broadcaster is sending. If the closed captioning for a program is not digital, the Digital CC style settings will not have an effect.*





### Frequently Asked Questions (FAQs)

#### How can I view High Definition (HD) video?

There are several ways you can view high definition video. If you have regular cable, your TV is able to receive some digital channels because it has a capability called QAM. QAM is a tuner that enables reception of unscrambled digital cable content. After you run a channel search, the digital channels begin at the end of the analog channel list. Check with your cable provider for information about content availability in your area.

You can connect an off-air antenna to the ANTENNA/CABLE INPUT to view free local digital channels. You might need to purchase an antenna. Go to page 8 for more information. Visit [www.antennaweb.org](http://www.antennaweb.org) to get help deciding what type of antenna to use to receive the local digital channels available to you. By entering where you live, this mapping program tells you what local digital stations are available using a certain antenna.

You can also use a set-top box to receive digital channels. Contact your cable company to purchase digital cable and have them connect the box for you to ensure you're viewing channels the best way.

#### How do I tell a digital channel from an analog channel?

Press the INFO button to display the channel banner. Digital channels display a *D* as part of the channel, such as *D Ch 29.1*, while analog channels display an *A* as part of the channel, such as *A Ch 9*.

#### Why are there bars on my screen and can I get rid of them?

Most digital video is sent in a 16/9 format, but sometimes is sent in 4/3. The station or device connected to your TV controls how the video is formatted. Press the FORMAT button to try a different format that may eliminate the bars. The format changes as you press the FORMAT button and the format type is displayed at the top of the screen.

#### Why does channel search find a lot of channels, but when I try to tune to them there's nothing there?

Some channels are enabled by the cable company that don't carry programming, such as video-on-demand. When channels are unavailable, your TV's screen is blank or appears like snow. You probably want to remove these so they no longer appear in your channel list. In the *Manual Channel Setup* menu, choose *Hidden*. Go to page 34 for more information.

#### Why does the first channel search take a long time?

The TV is looking for all available analog and digital channels in the channel list. If you have digital channels, the TV is also searching for each sub-channel of that digital channel.

## Troubleshooting

Most problems you encounter with your TV can be corrected by consulting the following troubleshooting list.

### TV Problems

---

#### TV won't turn on

- Make sure the TV is plugged in.
- Check the wall receptacle (or extension cord) to make sure it is “live” by plugging in something else.

#### No picture, no sound but TV is on

- You might be tuned to an input with no device connected to it to view. If you're trying to view a connected device, press INPUT and choose the option that matches the input of the device you connected.
- Maybe the *Signal Source* option is set incorrectly. Go to page 16 for detailed instructions.
- The channel might be blank — change channels.
- If you're watching your VCR and it's connected with coaxial cable to the ANTENNA/CABLE INPUT jack, tune the TV to channel 3 or 4 (whichever channel is selected on the 3/4 switch on the back of your VCR). Also check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).

#### Sound okay, picture poor

- If you're getting a black and white picture from a device you've connected to your TV, you might have your video cables connected to the wrong jacks. A yellow Video cable connects to the yellow VIDEO INPUT jack; three yellow video cables or bundled component video cables (red, blue, and green) connect to the COMPONENT INPUT jacks on the back of your TV.
- Check antenna connections. Make sure all of the cables are firmly connected to the jacks.
- Try adjusting sharpness function to improve weak signals. Go to page 53 for more instructions.

#### No sound, picture okay

- Maybe the sound is muted. Try pressing the volume up button to restore sound.
- If using S-Video or Y, PB, PR, remember to also connect the device's left and right audio output jacks to the TV's L and R Audio Input jacks.
- The sound settings may not be set correctly. Go to page 36 for more information.
- The internal speakers might be turned off. Go to page 37 for more information.

#### Blank screen

- If you're trying to watch something that's playing on a device connected to the TV (like a DVD), press INPUT and choose the option that matches the input where you connected the DVD.
- Make sure the device connected to the TV is turned on.
- Try another channel.

#### Buttons don't work

- Unplug the TV for ten minutes and then plug it back in. Turn the TV on and try again.

#### TV turns off unexpectedly

- Sleep timer may have been activated. Go to page 37 for instructions.
- Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. If this happens frequently, the voltage in your house may be abnormally high or low.
- Unplug. Wait ten minutes. Plug in again.



## Can't select certain channel

- Channel may be blocked or not approved in the *Parental Controls* menu.
- If using a VCR, check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).
- Press the TV button and then try to change channels.

## Noisy stereo reception

- May be a weak station. Press the *Sound* button and choose Mono.

## Black box appears on the screen

- Closed-captioning might be on. Check *Analog* or *Digital Captions* in the *Options* menu. Go to page 37 for more instructions.

## Problems with HDMI/DVI Connection

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- Make sure the HDMI device is turned on and the cables are firmly connected. If problems still occur, turn off your device. Re-connect your device. Reset the power by unplugging the power cord and plugging it back in.
- If you are tuned to the HDMI 1 or 2 input and you're receiving *No Signal* message on-screen, the HDMI device isn't responding. Contact the manufacturer of the HDMI device for further assistance.
- If you tune to the HDMI 1 or 2 input and you see snow, the video goes in and out, or the video takes a long time to appear, your HDMI device is having trouble sending video information to the TV. Re-connect your device. Reset the power by unplugging the power cord and plugging it back in. If problems persist, try connecting the Y Pb Pr jacks instead if they are available or contact the manufacturer of the HDMI device for further assistance.
- If you have black bars on each side of your picture, the device you connected might have a switch or a menu option allowing you to change the picture quality output that will fix this. Choose either 720p or 1080i.
- 480i signals aren't supported by the HDMI inputs.

## The Remote Control Doesn't Work

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- Make sure the remote is in the correct mode.
- Something might be between the remote and the remote light sensor on the front of the TV. Make sure there is a clear path.
- Maybe the remote isn't aimed directly at the TV.
- Maybe batteries in remote are weak, dead, or installed incorrectly. Put new batteries in the remote.

## Problems with V-Chip/Parental Controls

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### I don't remember my password and I want to unlock the TV

- If you forget your password, select *Set Password* from the *Options* menu and press OK. Press 3, 4, 4, and then 8. Then enter a new password you want to use.

### The V-Chip won't let me watch a program even though it's not rated as violent.

- Maybe the movie was given an NR (Not Rated) status. After you block movie ratings, you must set the *UNRATED PROGRAMS* option to *UNLOCKED* separately in order to view movies with an NR rating.

## What Else Can I Do?

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If you've been through the Troubleshooting section and nothing has fixed your problem, try rebooting your TV. Note that after a reboot you may need to run your TV through the setup process again. To do a reboot, unplug the power cord from the wall outlet, power strip, etc. Keep your TV unplugged for about 5 minutes. Then plug the TV back in, turn on the TV, and see if the problem is fixed. If the problem remains, then please visit [www.rca.com/television](http://www.rca.com/television) for updated FAQs or contact RCA Customer Support at the support number provided in your Warranty under *How To Get Service*.

# Other Information

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## V-Chip Rating Explanations

### US V-Chip Rating System

**TV-MA (Mature Audience Only)** Specifically designed to be viewed by adults and may be unsuitable for children under 17. It contains one or more of the following content themes: crude indecent language (L), explicit sexual activity (S), or graphic violence (V).

**TV-14 (Parents Strongly Cautioned)** Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).

**TV-PG (Parental Guidance Suggested)** Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

**TV-G (General Audience)** Most parents would find this program suitable for all ages. It contains little or no sexual dialogue (D) or situations (S), no strong language (L), and little or no violence (V).

**TV-Y7 (Directed to Children 7 years and older)** Designed for children ages 7 and above. It may be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild fantasy violence (FV) or comedic violence, or may frighten children under the age of 7.

**TV-Y (All Children)** Themes and elements in this program are designed for a young audience, including children from ages 2-6. It is not expected to frighten younger children.

### Canadian English V-Chip Rating System

**18+ (Adults)** Programming intended for adults 18 and older. It may contain elements of violence, language, and sexual content which could make it unsuitable for viewers under 18. Violence Guidelines: May contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

**14+ (Viewers 14 and over)** Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.

**PG (Parental Guidance)** Programming intended for a general audience but which may not be suitable for younger children (under the age of 8). Parents may consider some content inappropriate for unsupervised viewing by children aged 8-13. Violence Guidelines: Depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.

**G (General Audience)** Programming considered acceptable for all ages groups. While not designed specifically for children, it is understood younger viewers may be part of the audience. Violence Guidelines: Will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will not depict realistic scenes of violence which minimize or gloss over the effects of violent acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and no nudity.

**C8+ (Children 8 and Older)** Programming generally considered acceptable for children 8 years and over to watch on their own. Violence Guidelines: Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other Content Guidelines: There will be no profanity, nudity or sexual content.

**C (Children)** Programming intended for children under age 8. Violence Guidelines: Careful attention is paid to themes which could threaten children's sense of security and well being. There will be no realistic scenes of violence. Depictions of aggressive behaviour will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other Content Guidelines: There will be no offensive language, nudity or sexual content.

### Canadian French V-Chip Rating System

**18 ans+ (Adults)** Programming is for adults only. This program contains sustained violence or extremely violent scenes.

**16 ans+ (Viewers 16 and over)** Programming is not suitable for those under age 16. This program contains frequent scenes of violence or intensely violent scenes.

**13 ans+ (Viewers 13 and over)** Programming may not be suitable for children under the age of 13. This program either contains several violent scenes or one or more scenes that are violent enough to affect them. Viewing in the company of an adult is therefore strongly recommended for children under the age of 13.

**8 ans+ (Viewers 8 and over)** Not recommended for young children. This program is suitable for most audiences, but it contains mild or occasional violence that could upset young children. Viewing in the company of an adult is therefore recommended for young children (under the age of 8) who do not distinguish between reality and imagination.

**G (General Audience)** This program is suitable for audiences of all ages. It contains no violence, or any violence that it does contain is either minimal or is presented in a humorous manner, as a caricature, or in an unrealistic way.

# Other Information

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## Limited Warranty

### What your warranty covers:

- Defects in materials or workmanship.

### For how long after your purchase:

- 90 days from date of purchase for labor.
- 1 year from date of purchase for parts.

### What your warranty *does not* cover:

- Acts of nature, such as but not limited to lightning damage.
- Adjustment of customer controls.
- Damage from misuse or neglect.
- A unit that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- Batteries.
- Units purchased or serviced outside the U.S.A.
- Shipping damage if the unit was not packed and shipped in the manner prescribed by TTE Technology, Inc..
- Customer Instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer.)

### How you get service:

- Contact the RCA Customer Care Center at 1-800-951-9582.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

### Product Registration:

- Please complete and mail the Product Registration Card packed with your TV or register on-line at [www.rca.com/television](http://www.rca.com/television). It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

### Limitation of Warranty:

- **THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. NO VERBAL OR WRITTEN INFORMATION GIVEN BY TTE TECHNOLOGY, INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A GUARANTY OR IN ANY WAY INCREASE OR MODIFY THE SCOPE OF THIS WARRANTY.**
- **REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. TTE TECHNOLOGY, INC. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANA. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY AND WARRANTY PERIOD SET FORTH ABOVE.**

### How State Law relates to warranty:

- Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

**If you purchased your product outside the United States or seek warranty coverage outside the United States:**

- This warranty does not apply. Contact your dealer for warranty information.

**Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.**

## Care and Cleaning

CAUTION: Turn OFF your TV before cleaning.

You can clean the TV as required, using a soft lint-free cloth. Be sure to occasionally dust the ventilation slots in the cabinet to help assure adequate ventilation.

**IMPORTANT: Never use strong cleaning agents, such as ammonia-based cleaners, or abrasive powder. These types of cleaners will damage the TV.**

**The TV's screen may be cleaned with a soft, lint-free cloth as well. Take care not to scratch or mar the screen. If necessary, you may use a cloth dampened with warm water.** While cleaning do not spray liquid directly on the screen, or allow liquid to run down the screen and inside the TV. Also, never place drinks or vases with water on top of the TV. This could increase the risk of fire or shock hazard or damage to the TV.

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**Manufactured under license from Dolby Laboratories.**

### **FCC 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.

This Class B digital apparatus complies with Canadian ICES-003.

**Visit the RCA website at [www.rca.com/television](http://www.rca.com/television)**

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Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

## **TTE**

**TTE Technology, Inc.**  
**101 West 103rd St.**  
**Indianapolis, IN 46290**

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