

**REA**

RCA LCD FLAT PANEL HDTV

## contents

connections	7
remote	22
features	30
menus	36
FAQs	40
warranty	46

# Important Information



## CAUTION

RISK OF ELECTRIC SHOCK.  
DO NOT OPEN.



This symbol indicates that this product incorporates double insulation between hazardous main voltage and user accessible parts. When servicing, use only identical replacement parts.

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. This product should not be exposed to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the component.

## WARNING

The TV is unstable if it is not 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 should 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 side 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 to the TV. Refer to the Important Safety Instructions on the next page.

**CLASS 1  
LASER  
PRODUCT**

## 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.

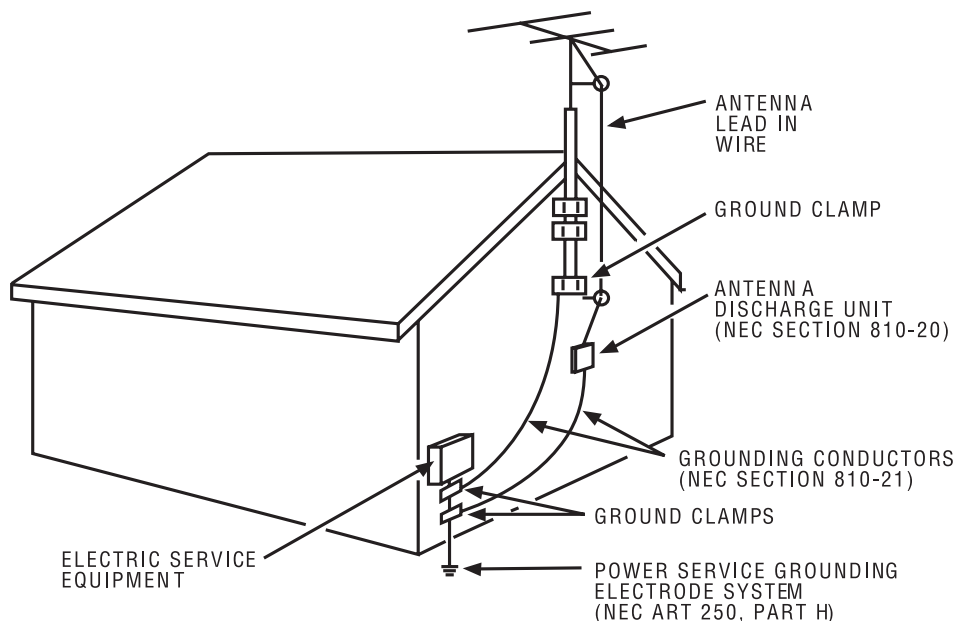
### Product Information

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

1. Read and follow all instructions.
2. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
3. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
4. Do not negate 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 your outlet, consult an electrician for replacement of the obsolete outlet.
5. Protect the power cord from being walked on or pinched particularly at plugs, receptacles, and the point where it exits from the component.
6. Do not use this component near water.
7. Only use the attachments/accessories specified by the manufacturer.
8. Clean only with dry cloth.
9. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the component. When the TV is placed on a cart, use caution when moving the cart to avoid injury from tip-over.
10. Unplug this component during lightning storms or when unused for long periods of time.
11. Refer all servicing to qualified service personnel. Service is required when the component is damaged in any way, such as power supply cord or plug damage, liquid spilled on or objects falling onto the component, rain or moisture exposure, abnormal operation, or if the component has been dropped.
12. 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:



# Table of Contents

Important Information .....	i
Important Safety Information.....	ii

## Chapter 1 | Connections & Setup

<b>Before Initial Setup .....</b>	<b>7</b>
Protect Against Power Surges .....	7
Safety .....	7
Avoid Audio Interference .....	7
Avoid Direct Light .....	7
Check Supplied Parts .....	7
<b>Attaching Your TV to the Table Stand.....</b>	<b>8</b>
<b>Mounting Your TV to the Wall .....</b>	<b>12</b>
<b>Obtain the Signal.....</b>	<b>12</b>
What You Need .....	12
What You Need to Know .....	12
<b>Choose Your Connections .....</b>	<b>13</b>
Composite Video Connection .....	14
Component Video Connection.....	14
HDMI/DVI Connection .....	15
PC Connection .....	16
Viewing the Picture from the Connected Component.....	16
Viewing a PC .....	16
<b>Plug in the TV.....</b>	<b>17</b>
<b>Put Batteries in the Remote.....</b>	<b>17</b>
<b>Turn on the TV .....</b>	<b>17</b>
<b>Using the Remote Control to Complete the Initial Setup .....</b>	<b>17</b>
<b>Complete the Initial Setup .....</b>	<b>18</b>
Set the Menu Language .....	18
Set the TV Location Mode .....	18
Complete Channel Setup.....	18
<b>What To Expect .....</b>	<b>19</b>
Watching TV- Analog Channels.....	19
Watching TV – Digital channels.....	19
Changing Channels .....	19
<b>Explanation of Jacks (in alphabetical order) .....</b>	<b>20</b>
<b>Buttons and Other Jacks on Your TV/DVD.....</b>	<b>21</b>
Side Input Jacks .....	21
Side Panel Buttons .....	21

---

## Chapter 2 | Using the Remote Control

<b>Remote Control Buttons .....</b>	<b>22</b>
TV Functions .....	22
INPUT Button .....	23
<b>Programming the Remote to Operate Other Components .....</b>	<b>23</b>
General Information .....	23
Programming the Remote .....	24
Using Direct Entry .....	24
Using Manual Code Search .....	24
Using Automatic Code Search .....	25
Using the Remote .....	25
Modes of Operation .....	25
Manual Reset .....	25
<b>Remote Code List .....</b>	<b>26</b>

---

## Chapter 3 | Using TV Features

<b>Channel Banner .....</b>	<b>30</b>
<b>Autotuning .....</b>	<b>30</b>
<b>Parental Controls and V-Chip .....</b>	<b>31</b>
V-Chip - US and Canada .....	31
Lock/Unlock Parental Controls .....	32
V-Chip Rating Screen .....	32
US V-Chip TV Ratings .....	32
<b>Blocking Specific Content Themes .....</b>	<b>33</b>
US V-Chip Movie Rating Limit .....	33
Blocking Canada V-Chip Ratings .....	34
Future Rating Region .....	34
Reset Downloadable Data .....	34
Blocking Unrated/Exempt Programs .....	34
Block Channel .....	34
Button Block .....	34
Change Password .....	35
<b>Additional Features .....</b>	<b>35</b>
Screen Formats .....	35

---

## Chapter 4 | Using the TV Menu

<b>Using the Menu System .....</b>	<b>36</b>
<b>Picture Menu .....</b>	<b>36</b>
<b>Sound Menu .....</b>	<b>37</b>
<b>Channel Menu .....</b>	<b>38</b>
<b>Parental Control Menu .....</b>	<b>38</b>
<b>Setup Menu .....</b>	<b>38</b>
<b>Time Menu .....</b>	<b>39</b>

---

Chapter 5   Other Information	
<b>Frequently Asked Questions (FAQs)</b>	<b>40</b>
<b>Troubleshooting</b>	<b>41</b>
<b>V-Chip Rating Explanations</b>	<b>44</b>
US V-Chip Rating System	44
Canadian English V-Chip Rating System	44
Canadian French V-Chip Rating System	45
<b>Limited Warranty</b>	<b>46</b>
<b>Care and Cleaning</b>	<b>50</b>

# 1 Connections and Setup

## Before Initial Setup

### Protect Against Power Surges

- Connect all components before you plug any 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 before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safety Instructions.

### Safety Information

- Protect components from overheating.
- Don't block ventilation holes on any of the components. Arrange the components so that air can circulate freely.
- Don't stack components.
- If you place the component 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 harm other components.

### Avoid Audio Interference

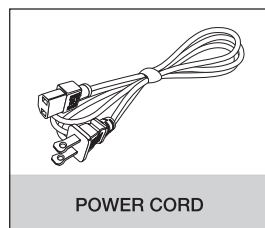
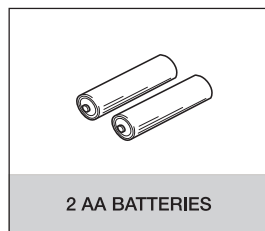
- Position cables properly; insert each cable firmly into the designated jack.
- If you place components above the TV, route all cables down one side of the back of the TV instead of straight down the middle.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables.
- Keep twin lead cables away from audio/video cables.

### Avoid Direct Light

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

### Check Supplied Parts

Check that the following parts were packed with your product.



Go to pages 8, 9 and 10 to see the parts list for the table stand.

Graphics contained within this publication are presentation only.

### Replacing your remote

If you need to replace your remote, call

**1-800-338-0376.**

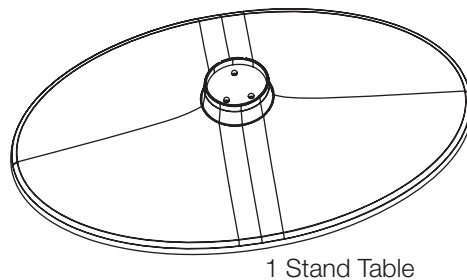
A shipping and handling fee, and the appropriate sales tax, will be charged upon ordering. Have your Visa, MasterCard, or Discover Card ready.

# Attaching Your TV to the Table Stand

Your TV comes without the table stand attached so that you can choose to mount your TV either to its table stand or to a wall (wall mount sold separately). If you want to mount your TV to the wall, don't attach the table stand. Follow the Mounting Your TV to the Wall instructions on page 12.

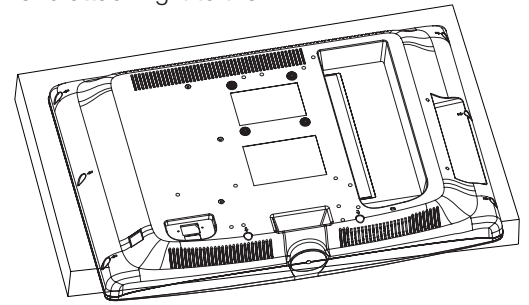
## Fixed Table Stand Assembly for Models L26HD31 and L26HD31S

### Parts List



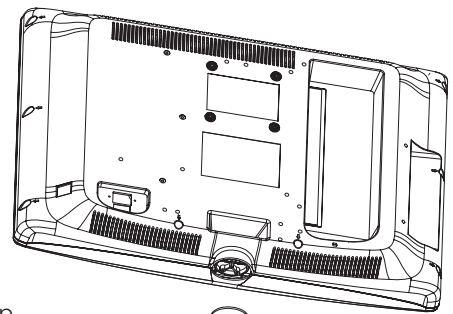
### Step 1

Remove the TV bag and place it on a large, flat surface such as a table or countertop. Remove the TV from the carton and place it face down on the TV bag. Be sure that the TV is face down to avoid scratching the screen. Follow the directions on the following pages for assembling the stand and attaching it to the TV.



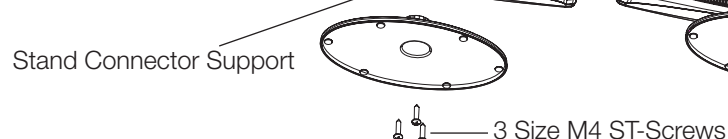
### Step 2

1. Remove the base and the assembly parts from the box.
2. Remove the stand cap from the TV cabinet, using a screwdriver to remove the screw and pulling out the cap.



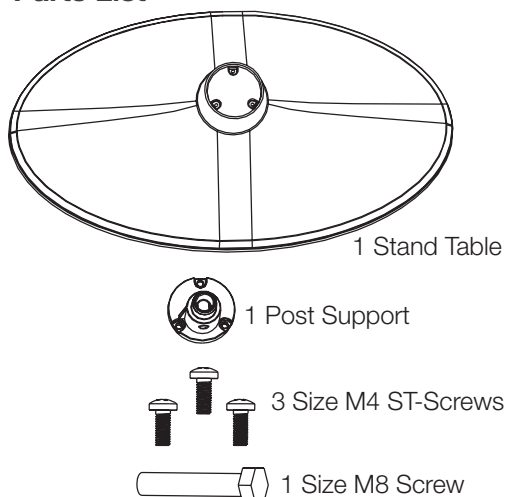
### Step 3

1. Attach the table stand to the TV cabinet. To do this, insert the stand into the stand connector support.
2. Align the screw holes. Insert the three screws and tighten with a screwdriver.



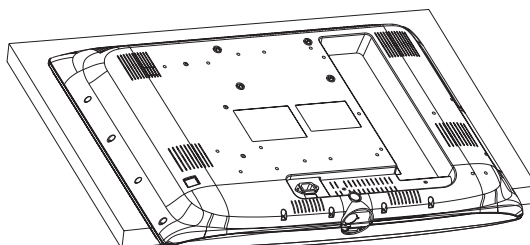
## Fixed Table Stand Assembly for Model L32HD31

### Parts List



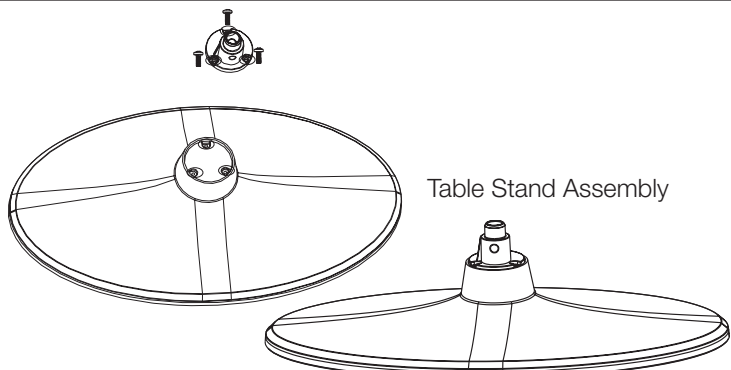
### Step 1

Remove the TV bag and place it on a large, flat surface such as a table or countertop. Remove the TV from the carton and place it face down on the TV bag. Be sure that the TV is face down to avoid scratching the screen. Follow the directions on the following pages for assembling the stand and attaching it to the TV.



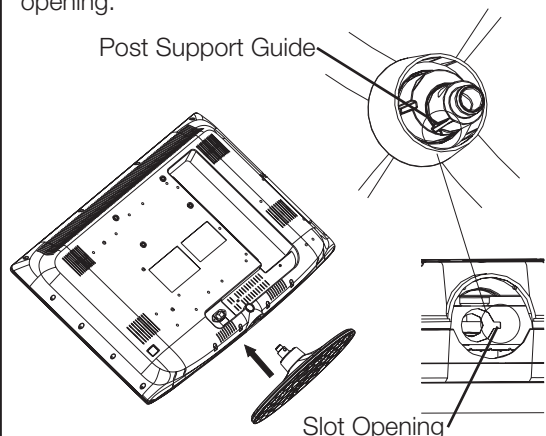
### Step 2

1. Remove the base and the assembly parts from the box.
2. Place the post support on the stand base, aligning the screw holes.
3. Attach the post support to the stand base by inserting the three M4 ST-screws from the top and tightening with a screwdriver.



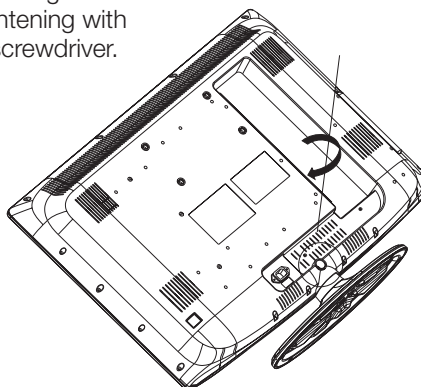
### Step 3

Attach the table stand to the TV cabinet by inserting the post support into the cabinet while aligning the post support guide and the slot opening.

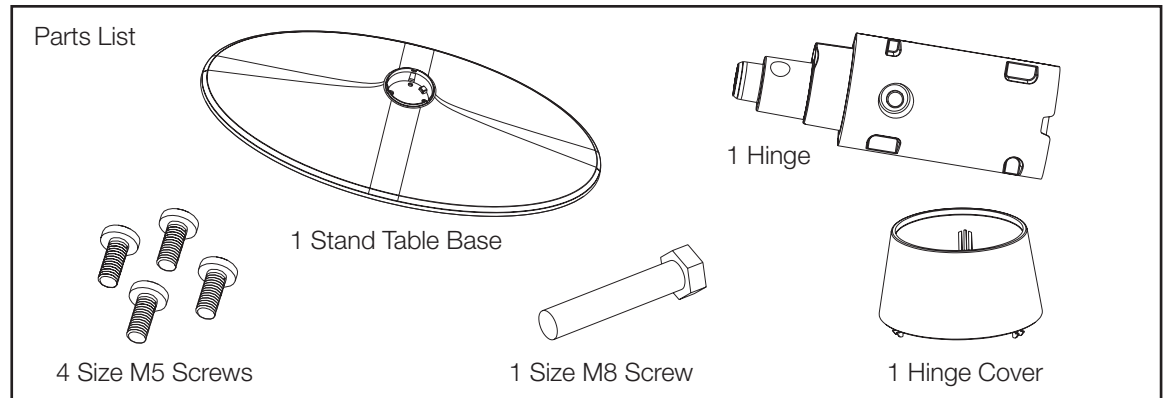


### Step 4

1. When the post support is in place, the support threads are visible through the small hole in the back of the TV.
2. Secure the table stand to the TV cabinet by inserting the M8 screw into this hole and tightening with a screwdriver.



## Swivel Table Stand Assembly for Models L32HD36 and L40HD36



### Step 1

There are two options for the stand assembly:

Option 1: Your TV has been packed upside down in the carton (see Figure 1) so you can attach the TV stand assembly before removing the TV from the box. This minimizes the risk of scratching the screen. After removing the bag covering the TV, follow the directions on the following pages for assembling the stand and attaching it to the TV.

Option 2: Remove the TV bag and place it on a large, flat surface such as a table or countertop. Remove the TV from the carton and place it face down on the TV bag (see Figure 2). Be sure that the TV is face down to avoid scratching the screen. Follow the directions on the following pages for assembling the stand and attaching it to the TV.

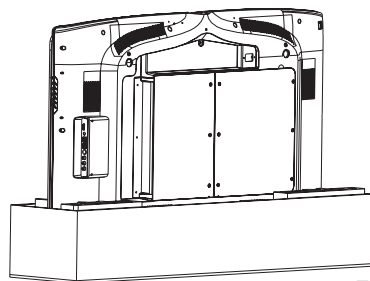


Figure 1

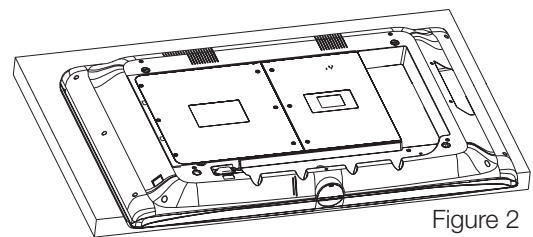
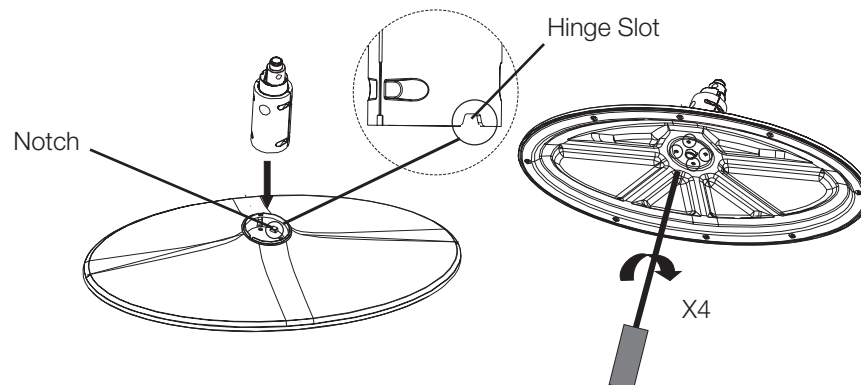


Figure 2

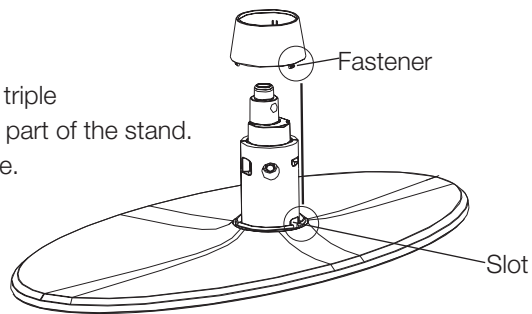
### Step 2

1. Remove the base and the assembly parts from the box.
2. Place the hinge on the stand base, aligning the slot on the hinge to the notch on the base.
3. Turn the stand upside down. Using a Phillips head screwdriver, attach the hinge to the stand base using the four M5 screws provided.



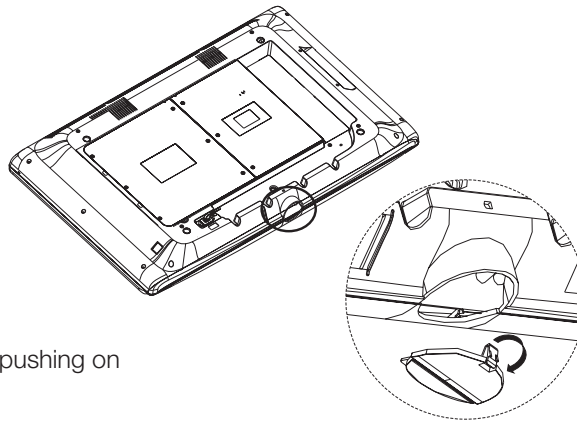
### Step 3

1. On the hinge cover, locate the triple-pronged tab.
2. Place the hinge cover over the hinge, aligning the triple pronged tab with the slot on the back (narrowest) part of the stand.
3. Push and fasten the hinge cover to the stand base.  
Be sure all three tabs snap firmly in place.



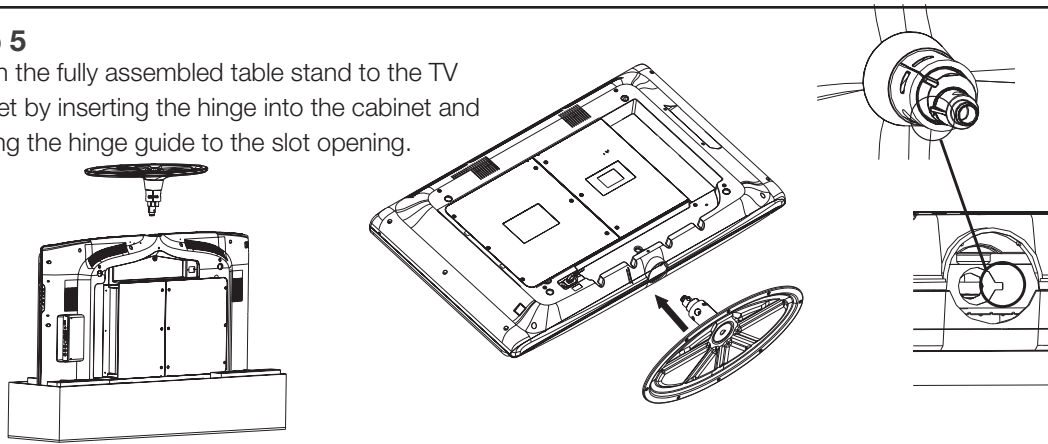
### Step 4

Remove the stand cap from the TV cabinet by pushing on the small tab and pulling out the cap.



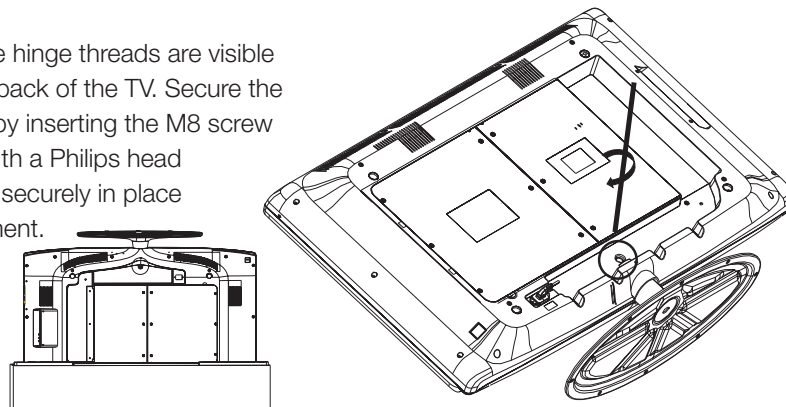
### Step 5

Attach the fully assembled table stand to the TV cabinet by inserting the hinge into the cabinet and aligning the hinge guide to the slot opening.



### Step 6

When the hinge is in place, the hinge threads are visible through the small hole on the back of the TV. Secure the table stand to the TV cabinet by inserting the M8 screw into this hole and tightening with a Philips head screwdriver. The stand is now securely in place and the TV is ready for placement.



## Mounting Your TV to the Wall

**Caution:** Your wall mount must be able to bear a minimum of five times the TV's net weight to avoid causing damage.

*To mount your TV to the wall, purchase a VESA wall mount.*

Model L26HD31/L26HD31S	Purchase a VESA 100 x 100, M4 screw
Model L32HD31/L32HD36	Purchase a VESA 200 x 100, M4 screw
Model L40HD36	Purchase a VESA 600 x 400, M6 screw

The VESA number is the horizontal and vertical measurement of the mounting holes. For example, 600x400 refers to fact that the mounting measurements are 600mm horizontally and 400mm vertically.

### Notes:

*Follow the directions included with the wall mount to mount the TV to the wall.*

*The space between the TV and the wall must be at least 40 mm.*

## Obtain the Signal

The first step in connecting your TV is obtaining the signal. The back panel of your TV allows you to receive analog and/or digital channels by using the ANTENNA/CABLE INPUT.

Before you connect your TV, you have to determine whether you will be using an antenna or a cable service to obtain the signal.

### What You Need

Antenna (Rabbit Ears) Or Outdoor Antenna with Coaxial Cable

Plug the antenna or coaxial cable from the wall outlet into the ANTENNA/CABLE INPUT on the back of the TV. You are ready to receive off-air local digital and analog channels.

### Cable Service

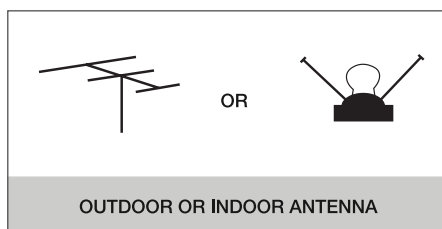
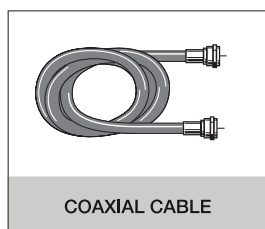
Plug the coaxial cable from the wall outlet into the ANTENNA/CABLE INPUT on the back of the TV. You are ready to receive your cable channels.

### Set-Top Box

If you have a set-top box, you may need to call your cable company or satellite service provider. They may recommend special cables to allow you to view digital channels.

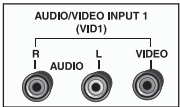
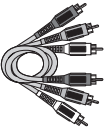
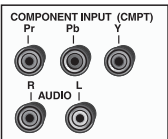
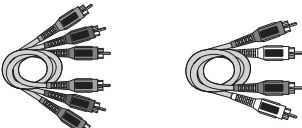
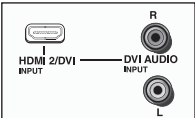

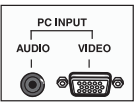
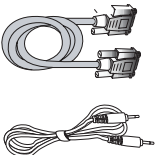
### What You Need to Know

- Visit [www.antennaweb.org](http://www.antennaweb.org) for help in deciding what type of antenna to use in order to receive the local digital channels available to you. Enter your location, and the program will list local analog and digital stations available using your antenna.
- When you watch TV, the Channel Banner displays the type of channel currently viewed. A "D" at the bottom of the screen denotes digital channels and an "A" denotes analog channels. For more information on Channel Banners, see page 30.



# Choose Your Connections

There are several ways to connect components, such as DVD players and setup boxes, to your TV. Please use the following chart to determine which connections are best for you. Proceed to the appropriate pages to connect your components.

Jacks Used	Cable Needed	Go to...
 <p>Audio R and L      Video</p>	 <p>Audio/Video</p>	page 14
 <p>Y PR Pb Audio R and L</p>	 <p>Component Video      Audio</p>	page 14
 <p>HDMI/DVI      Audio R and L</p>	<p>HDMI™</p> <p>OR</p>  <p>HDMI™ + HDMI/DVI Adapter + Audio</p>	page 15
 <p>Audio      VGA</p>	 <p>VGA Audio</p>	page 16

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

Input	Signal Compatibility
Ant/Cable	480i, 480p, 720p, 1080i (NTSC, ATSC, and QAM formats)
Composite Video	480i
S-Video	480i
Component Video	480i, 480p, 720p/60Hz, 1080i/60Hz
PC	VGA, SVGA, XGA
HDMI	480i, 480p, 720p/60Hz, 1080i/60Hz, 1080p

## Customer Support

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

## Home Installation

Note for US

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

### Connecting a Component with Composite Video (Good)

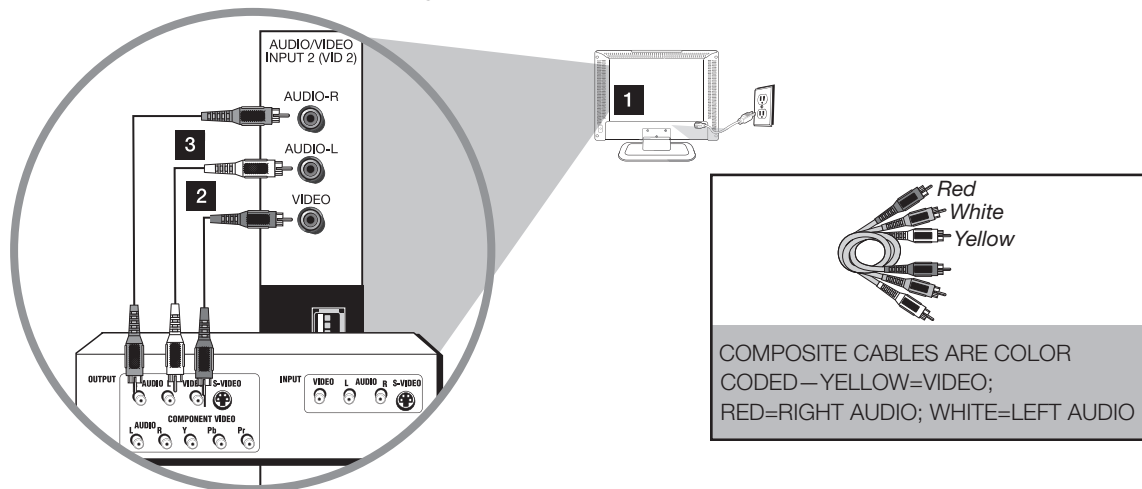
To connect a component with a video output jack, such as a DVD player, follow these steps:

Example: DVD Player

1. Connect your cable and/or off-air antenna as described on page 12.
2. Connect the video cable to the (VID1) VIDEO jack on the back of the TV and to the video output jack on the DVD player.
3. Connect the red and white audio cables to the (VID1) right and left audio jacks on the back of the TV and to the audio output jacks on the DVD player.

### Composite Video Connection

This is an example of a connection using the composite video jack.



Don't forget:

If necessary, connect antenna or cable to get a picture. Go to page 12 for instructions.

### Connecting a Component with Component Video (Better)

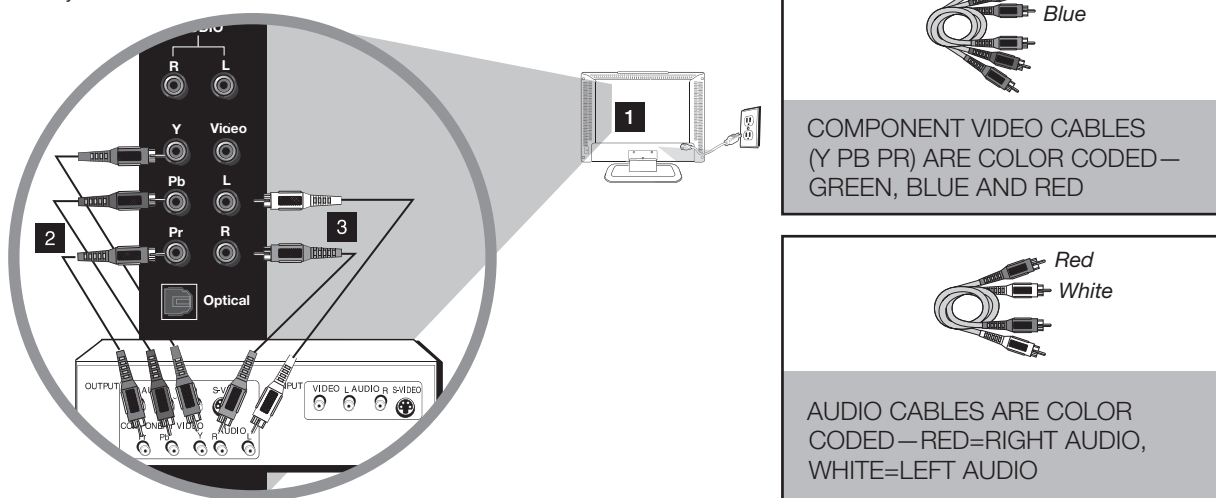
To connect a component that has Y Pb Pr jacks, such as a DVD player, follow these steps:

Example: DVD Player

1. Connect your cable and/or off-air antenna as described on page 12.
2. Connect three video cables or special Y Pb Pr cables to the COMPONENT INPUT 1 (CMPT) 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 to the COMPONENT INPUT (CMPT) R and L AUDIO jacks on the back of the TV and to the audio output jacks on the DVD player.

### Component Video Connection

This is an example of a connection using the component video jacks.



## Connecting a Component with HDMI (Best)

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. Since HDMI technology is based on Digital Visual Interface (DVI), the jack on the back of your TV is also compatible with components that have a DVI output jack.

Example: Set-top box with HDMI jack:

1. Connect an HDMI cable to the HDMI2/DVI INPUT jack or the HDMI1/DVI INPUT jack on the back of the TV and to the HDMI output jack on the back of the set-top box.

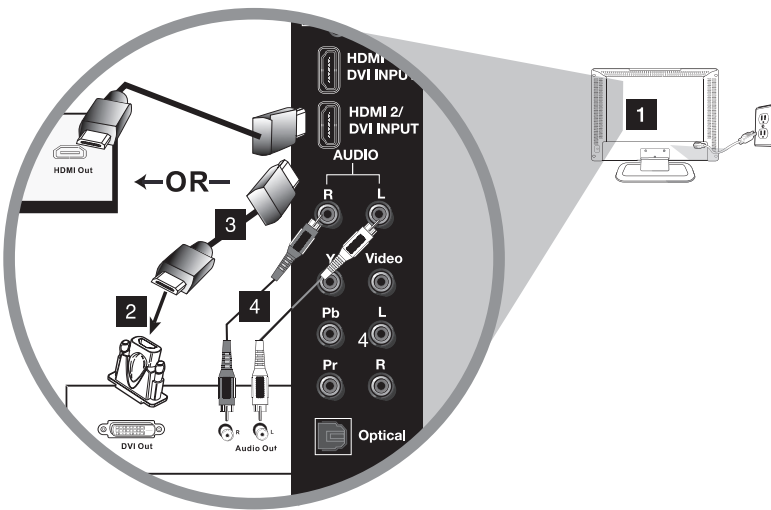
Example: Set-top box with DVI jack

To connect an HDMI cable and an HDMI/DVI adapter:

1. Connect an HDMI cable to the HDMI2/DVI INPUT jack or the HDMI1/DVI INPUT jack on the back of the TV.
2. Attach an HDMI/DVI adapter to the end of the HDMI cable; then connect the adapter to the DVI output jack on the set-top box.
3. Since you're using an HDMI/DVI adapter, you need to connect separate audio cables to the DVI AUDIO INPUT right and left jacks on the back of the TV and to the right and left audio jacks on the back of the set-top box.

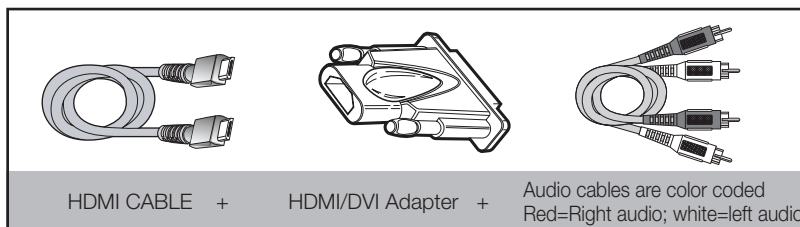
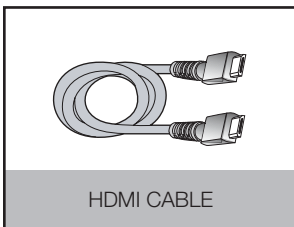
## HDMI/DVI Connection (Best)

This is an example of a connection using the HDMI2/DVI jack.



*Don't forget:*

*If necessary, connect antenna or cable to get a picture. Go to page 12 for instructions.*



## Connecting a PC Component

To connect a personal computer and use your TV as a monitor, follow these steps:

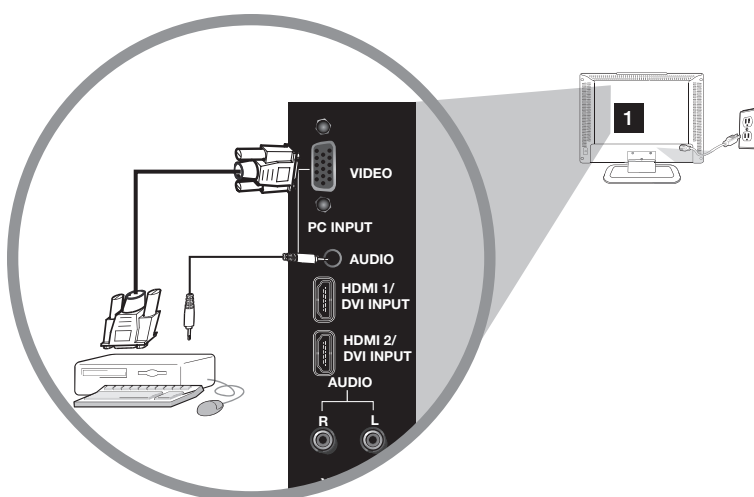
1. Connect your cable and/or off-air antenna as described on page 12.
2. Connect one end of a 15-pin monitor cable to the PC INPUT VIDEO jack on the TV and the other end to the PC's video output jack.

**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.

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

## PC Connection

This is an example of a connection using the PC INPUT VIDEO jack.



## Viewing the Picture from the Connected Component

1. Plug in the TV (see page 17 for details) and the component, such as a DVD player or a VCR.
2. Turn on the TV and the component you want to view.
3. Repeatedly press the INPUT button on the remote control to select VID1 (if connected to the VIDEO INPUT 1 jacks), CMPT (if connected to the CMPT jacks) or HDMI1/DVI (if connected to the HDMI1/DVI jack) displayed at the top of the TV screen. To return to viewing TV channels, use the number buttons to enter the channel you wish to view.

**Note:** If the picture from the DVD player appears black and white and your component is connected to the VIDEO INPUT, you may be tuned to the wrong input. Make sure you press INPUT until you see VID1, CMPT or HDMI1 displayed at the top of the TV screen.

**Note:** When you have connected all additional components to your TV, go to page 18 for initial Setup Instructions.

## Viewing a PC

1. Plug in the TV and the computer.
2. Turn on the TV and the computer.
3. Repeatedly press the INPUT button on the remote control until you see PC displayed at the top of the TV screen. To go back to viewing TV channels, use the number buttons to enter the channel or press CH+ or CH- buttons.

**Note:** When you have connected all additional components to your TV, go to page 18 for initial Setup Instructions.

## Plug in the TV

Plug the end of the power cord into the back of the TV. Plug the other end into an outlet, inserting the plug completely. Do not plug the TV into an outlet controlled by a light switch.

## Put Batteries in the Remote

- Remove the battery compartment cover from the back of the remote control by pushing the tab and lifting off the cover.
- Insert 2 AA batteries, making 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 side of the TV or the ON•OFF button on the remote control.

*Note: Highlighted items stand out from other menu items on the list (appear darker, brighter, or a different color).*

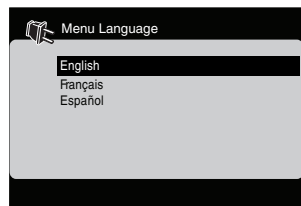
## Using the Remote Control to Complete Initial Setup

You will need to use the remote control to complete the setup of your TV. The remote control allows you to navigate through and select items that appear in the on-screen menus. The process works the same on all menu screens: highlight your choice and select it.

To select a menu item, press the arrows to highlight one of the items listed on the screen. Use the up or down arrows to move up or down. Use the right or left arrows to view other selections for a menu choice or to display a sub-menu.

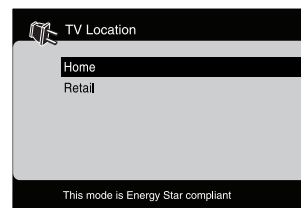
# Complete the Initial Setup

The menu system in your TV allows all of the TV's features to work properly. The first time you turn on your TV, the language screen appears.



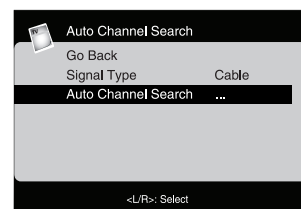
## Set the Menu Language

The first step of the setup requires you to select your preferred language for the menu system. If English is your preferred language, press OK and proceed to set the TV Location Mode. To choose another language, press the down arrow until that language is highlighted, and select it by pressing the OK button.



## Set the TV Location Mode

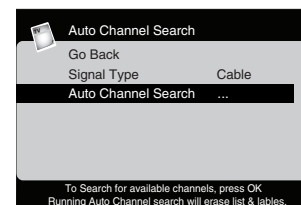
After choosing the language, a menu screen asks you to set the TV Location. Choosing "Home" for the TV Location assigns the optimal picture settings for most home environments. This is also the most energy-efficient setting. Press OK to display the Channel Setup menu.



## Set the Signal Type

From the Channel menu, select *Auto Channel Search*. Press the up or down arrow to highlight *Signal Type*. If you have connected the cable to your ANTENNA/CABLE INPUT jack, the option is chosen for you. Simply press the down arrow to continue.

To choose *Antenna*, press the right arrow and then press the down arrow to continue.



## Complete the Channel Search

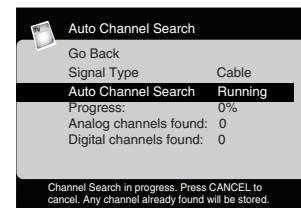
With *Channel Search* highlighted, press OK to begin the channel search. If you chose *Cable* as your signal type, the search takes a while because it is looking for both analog and digital channels. Then, it removes scrambled channels.

The Channel Search process includes the following steps:

1. The search first seeks analog channels and places the number of channels found next to *Analog Channels Found*.
2. The search then looks for digital channels and places the number of channels found next to *Digital Channels Found*. This number may seem high. This is because the number includes both scrambled (for example, Pay Per View) and non-scrambled channels. These channels are dependent upon what your cable company is sending.
3. The search might appear as if it is complete, but as long as the search says *Running*, it is still in progress. The TV is now removing scrambled channels from the channel list.
4. When *Auto Channel Search* is in progress, you can press the CANCEL button to cancel the search. Any channels already found will be stored.
5. When the search is complete, press CANCEL to exit the menu system.

You may find there are still some channels in your list that are unavailable to view. To delete these channels, press MENU and choose *Channel*. Highlight and select *List and Labels*.

**Note:** Removing channels from your channel list may be time-consuming, so you may want to do it later. Go to page 38 for details on editing your channel list.



# What To Expect

## Watching TV

### Analog Channels

An “A” at the bottom of the screen denotes that you are watching an analog channel. Analog video is sent in a 4/3 format. Your TV can display these channels in a 16/9 format by pressing the FORMAT buttons to view the different formats available. Go to page 35 for more explanation of screen formats.

## Watching TV

### Digital Channels

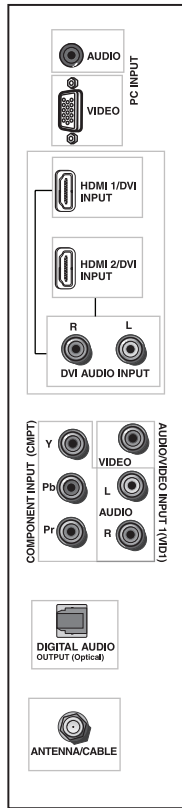
A “D” at the bottom of the screen denotes that you are watching a digital channel. Most digital video is sent in a 16/9 format, which fills the screen. However, it is sometimes sent in 4/3 format, which does not fill your screen. The format is dependent on how the station or source component is configuring the video.

**Note:** *If there are bars on-screen, press the FORMAT button to try a different format. This may eliminate the bars. Some bars can't be removed because of the way the format is sent by the broadcaster. Go to page 35 for more explanation of screen formats.*

## Changing Channels

- Digital channels can have both primary channels (like the analog channel number) and sub-channels. To tune to a digital channel with a sub-channel, such as 10.1, enter the primary channel number (10), then press the right arrow or the “ ● ” button. Enter the sub-channel number (1) and press OK.
- Depending upon the type of signals you have connected to your HDTV, you may notice that the channels change more slowly than usual. This is perfectly normal. Digital cable channels sometimes take longer to tune.

# Explanation of Jacks (in alphabetical order)



*Note: If using a DVI component, remember to connect the left and right audio cables because the DVI cable carries only the picture signal, not the sound.*

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

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

**AUDIO/VIDEO INPUT 1 (VID1)** Lets you connect a component that has composite video jacks, such as a VCR or DVD player.

- **L AUDIO** Provides left audio connection when using the VIDEO INPUT 1 jack. The left audio connectors are usually white. For mono audio sources, be sure to use the L AUDIO INPUT.
- **R AUDIO** Provides right audio connection when using the VIDEO INPUT 1 jack. The right audio connector is usually red.

**COMPONENT INPUTS** Lets you connect a component that has component video jacks, such as a DVD player.

- **CMPT Y Pb Pr (Component Video)** Provides good picture quality because the video is separated into three signals. Use three video-grade or component video cables for the connection. When using CMPT Y Pb Pr, make sure you connect left and right audio cables to the L and R AUDIO jacks.
- **L AUDIO** Provides left audio connection when using the CMPT VIDEO inputs. The left audio connector is usually white. For mono audio sources, be sure to use the L AUDIO input.
- **R AUDIO** Provides right audio connection when using the CMPT VIDEO Inputs. The right audio connector is usually red.

**DIGITAL AUDIO OUTPUT (optical)** Use a digital optical cable to connect your TV to a compatible audio receiver.

**HDMI1/DVI and HDMI2/DVI INPUT** Lets you connect a component, such as a digital cable box, with an HDMI or a DVI output for the best picture quality.

- **HDMI/DVI INPUT (High-Definition Multimedia Interface/Digital Visual Interface)** Provides an uncompressed digital connection that carries both video and audio data by way of an integrated mini-plug cable. Since HDMI technology is based on Digital Visual Interface (DVI), the jack on the back of your TV is also compatible with DVI components.
- **DVI AUDIO INPUT L (used for DVI only)** Provides left audio connection when using HDMI1 or HDMI2 jack for DVI. The left audio connector is usually white. For mono audio sources, be sure to use the L AUDIO input.
- **DVI AUDIO INPUT R (used for DVI only)** Provides right audio connection when using the HDMI1 or HDMI2 jack for DVI. The right audio connector is usually red.

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

**PC INPUT AUDIO (Stereo mini jack)** Use to obtain sound when a PC is connected to the PC input. Use a 3.5mm stereo mini-pin cable (sometimes referred to as 1/8" stereo mini-pin) to connect a PC to your TV/DVD.

# Buttons and Other Jacks on Your TV/DVD

## Side Input Jacks

**Headphones** Allows you to connect headphones to listen to the sound coming from the TV.

**VIDEO INPUT 2** Receives video from another component such as a camcorder, video game console, VCR, or DVD player. To access a component connected to the VIDEO jack, press the INPUT button on your remote repeatedly to select VID2, displayed at the top of the screen.

**AUDIO L and R** Receives audio from another component such as a camcorder, video game console, VCR, or DVD player. Use when connecting to the VIDEO or S-VIDEO INPUT. For mono audio sources, be sure to use the L AUDIO input.

**S-VIDEO INPUT** Allows you to connect an S-Video cable from another component. Make sure you also connect audio cables from the component to the TV. To access a component connected to the S-VIDEO jack, press the INPUT button on your remote repeatedly to select S-VIDEO displayed at the top of the screen.

**USB** For factory service use only

## Side Panel Buttons

If you cannot locate your remote, you can use the side panel buttons on your TV to operate many TV features.

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

**MENU/(OK)** Brings up the TV Main Menu. When in the menu system, it displays sub-menus and selects highlighted items.

**VOL ►** Increases the volume. In the TV menu system, it acts like the right arrow on the remote control and can be used to select menu options.

**VOL ◀** Decreases the volume. In the TV menu system, it acts like the left arrow on the remote control and can be used to select menu options.

**CH ▲** Scans up through the channel list. In the TV menu system, it acts like the up arrow on the remote control and can be used to select menu options.

**CH ▼** Scans down through the channel list. In the TV menu system, it acts like the down arrow on the remote control and can be used to select menu options.

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

## 2 Using the Remote Control

### Remote Control Buttons



Remote control part number RC2254701/01

This is a multi-component remote control and many of the buttons have multiple functions.

*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.*

#### TV Functions

**Alphanumeric Buttons** Using these buttons, enter channel numbers, time setting, and letter options.

To enter a channel, press the number buttons and press OK (or let the entry timeout).

To enter a digital channel with a sub-channel, enter the main channel; then, press the right arrow to enter the sub-channel and press OK.

**Arrows (◀/▶/▲/▼)** Use the four arrows to highlight different items in the TV menu and to adjust the menu controls. When viewing a channel, arrow functions are as follows:

- **Left Arrow/FORMAT** Press to change the screen format: *Normal, Zoom, Center, Stretch*. Go to page 35 for more information on screen formats.
- **Right Arrow/GUIDE** Press this button first to display the electronic program guide-EPG (when available). Press again to view the program in the schedule.
- **UP Arrow/INFO** Press the up arrow once to display the Channel Banner; press again to remove the menu.
- **Down Arrow/PRESETS** Press this button to enter the PRESET Menu. Display *Picture and Sound preset; CC Setting; Current Audio Track*.

**CC** Takes user directly into the Closed Caption sub-menu.

**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.

**CH LIST** When you tune to a particular channel, press the CH LIST button to enter the LIST and LABELS menu directly to add/remove the channel from channel list.

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

**DVD** Places the remote in DVD Mode. The DVD button illuminates when you press a valid button in DVD Mode (see Modes of Operation on page 25 for more details).

**F1-F4** Favorite channel buttons. Set a favorite channel button (F1/F2/F3/F4) to the current channel by holding the button down for two seconds. Each button can be set to a favorite channel, and you can change your selections at any time.

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

**INPUT** Accesses the available video input channels (WATCH TV, CMPT, HDMI1, HDMI2, VID1, VID2, S-VIDEO and PC). To resume TV viewing, press the number buttons to enter the channel or press the CH+ or CH- buttons.

**MENU** Accesses the Main Menu.

**MUTE** Reduces the TV volume to its minimum level. Press again to restore the volume.

**OK** When in the menu system, pressing the OK button selects the highlighted item.

**PIC** Press the PIC button to display the *Picture* sub-menus.

**ON•OFF** When in TV Mode, pressing the ON•OFF button turns the TV on or off. If in another programmed mode (SAT/AUX or DVD), pressing the ON•OFF button turns the component on or off.

**REW, REPLAY, PLAY, NEXT, FWD, REC, STOP, PAUSE (buttons at TOP of the remote)**

If programmed, these buttons provide transport control for some remote-controllable components, such as VCRs or DVD players.

**ZZZ (SLEEP)** Press this button to display the TIME Menu and set the *Sleep Timer*.

**SAT/AUX** Places the remote in SAT/AUX mode. If Autotuning is enabled, pressing this button turns on the TV and tunes it to the satellite or cable box Video Input Channel. This button illuminates when you press a valid button in SAT/AUX mode (see Modes of Operation on page 25 for more details).

**TV** Turns on the TV, displays current status and puts the remote in TV Mode.

**V-CHIP** Press to display the Parental Control sub-menu.

**VOL - or VOL +** Decreases or increases the TV volume.

## INPUT Button

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

1. Make sure the component is turned ON.
2. Press INPUT to tune to an available video input source and view the component.
3. To return to the previous channel, press the INPUT button until you return to the channel.

OR

1. Make sure the component is turned ON.
2. Press INPUT and then use the arrow buttons to navigate up and down.
3. Press OK on the option you want.

## Programming the Remote to Operate Other Components

The universal remote can be programmed to operate many brands of remote-controllable components, such as VCRs, audio components, DVD players, cable boxes, and satellite receivers. Your remote control also comes pre-programmed to control some RCA components.

### Notes:

- *The TV button can't be programmed to control other components.*
- *The remote may not be compatible with all models of all brands of components. It also may not provide complete functionality.*

## Determine If You Need to Program Remote

To determine whether the universal remote needs to be programmed to operate one of the components connected to your TV, such as a satellite receiver, follow these steps:

1. Turn on the component (for example, the satellite receiver).
2. Point the remote at the component.
3. Press the corresponding component button (SAT/AUX button).
4. Press ON•OFF to see if the satellite receiver responds. If it doesn't, you need to program the remote to operate it.

## Programming the Remote

The CANCEL button is used as visual feedback during the programming operation. During programming, the CANCEL button illuminates when buttons are pressed and turns off when buttons are released. When programming is finished, the CANCEL button blinks slowly to indicate success and blinks rapidly to indicate failure.

**Note:** All component buttons are inoperable during Programming Mode.

There are three ways to program the remote control to operate other components: Direct Entry, Manual Code Search, and Automatic Code Search. You must try Direct Entry for at least one code before trying the other methods.

## Using Direct Entry

1. Turn on the component you want to control.
2. On your remote control, simultaneously press and hold the ON•OFF and MUTE buttons (approximately 3 seconds) until the CANCEL button illuminates. Release the buttons.
3. Press and release the component button.
4. Enter the appropriate four-digit code for the component you want to operate. The first digit indicates the component type (0 for DVD, 1 for Satellite TV, 2 for Cable, 3 for DVR, 4 for VCR, 5 for Audio, 6 for CD); the other three digits indicate the brand and model. Look up the brand and codes for the component in the list at the end of this section. Codes are listed by component type and are arranged alphabetically.
5. The CANCEL button blinks slowly to indicate success. Repeat these steps until you've tested all codes for your component's brand, or try to run a Manual Code Search.

## Using a Manual Code Search

**Note:** Before using Manual Code Search, use Direct Entry. This lets the remote know which type of component you are programming. Then proceed with the following steps:

1. Turn on the component you want to control.
2. On your remote control, simultaneously press and hold the ON•OFF and MUTE buttons (approximately 3 seconds) until the CANCEL button illuminates. Release the buttons.
3. Press and release the component button.
4. Repeatedly press and release the left arrow or right arrow, watching for the component to respond. If the component turns off, press and release the OK button to save the code. The CANCEL button blinks slowly to indicate success.
5. When all codes have been searched, the CANCEL button blinks rapidly to indicate failure, and the remote returns to normal operation.

**Note:** Use the right arrow to search ahead; use the left arrow to search back. Press the ON•OFF button to switch to Automatic Code Search Mode.

## Using Automatic Code Search

1. Turn on the component you want to control.
2. On your remote control, simultaneously press and hold the ON•OFF and MUTE buttons (approximately 3 seconds) until the CANCEL button illuminates. Release the buttons.
3. Press and release the component button.
4. Press and release the ON•OFF button once. The remote starts the code search.
5. Once the component turns off, quickly press the OK button to save the code. The CANCEL button blinks slowly to indicate success.
6. When all codes have been searched, the CANCEL button blinks rapidly to indicate failure, and the remote returns to normal operation.

**Note:** *If you accidentally passed the code before saving it, use the left arrow to backtrack through the codes. Use the right arrow to go forward through the codes again. Once the left or right arrow has been pressed, the search mode changes to Manual Code Search.*

## Using the Remote

Once the remote has been programmed successfully, it is ready to operate your components.

To operate the component:

1. Press the component button to set the remote to control the component.
2. Press ON•OFF to turn the component ON or OFF.
3. Use the remote buttons that apply to that component.

## Modes of Operation

The button that corresponds to the mode the remote illuminates when you press any button that applies to the component. 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.

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

## Manual Reset

The Manual Reset is used to reset the remote settings to default.

**Note:** *The reset can also be accomplished by replacing the batteries; however replacing the batteries does not always cause a reset. You can perform a manual reset by following these steps:*

1. On your remote control, simultaneously press the V-Chip, ON•OFF and MUTE buttons.
2. The CANCEL button will blink slowly to indicate success, and the remote control returns to normal operation.

# Remote Code list

## Audio Codes

Accuphase.....	032
Accurus.....	033
ADC.....	074
Adcom.....	056
Admiral.....	150
ADS.....	151
Alwa.....	014 072 073 109 214 225
279 287 335 369	
Akai.....	142
Alco.....	093
Alpine.....	152
Altec Lansing.....	140
Amphion Media Works.....	104 107
Amplifier Technologies.....	118
AMW.....	104 107
Anam.....	080 148
Angstrom.....	034
Apex.....	403 407 095
Aragon.....	033
Arcam.....	131
Atlantic technology.....	120
Audio Research.....	154
Audio Source.....	035
AudioPhase.....	388
Audiotronic.....	061
Audiovox.....	093 399 417
B & K.....	155
Bang & Olufsen.....	353
Bel Canto Design.....	036
Blamp.....	037
BOSE.....	010 075 082 117 371 384
Boston Acoustics.....	121
Brix.....	146
California Audio Lab.....	028
CambridgeSoundWorks.....	418
Cpetronic.....	074
Carver.....	061 073
Cary Audio Design.....	031
Casio.....	125
CCE.....	177
Chase Technologies.....	029
Cinema Sound.....	038
Clarinet.....	125
Clarion.....	156
Classe.....	039
Classic.....	411
Coby.....	018
Counterpoint.....	157
Creative.....	129
Criterion.....	136
Curtis.....	409
Cary Audio Design.....	031
Curtis.....	409
Curtis Mathes.....	022
Daewoo.....	132
Dell.....	134
Delphi.....	158
Denon.....	009 058 090 205 220 226
227 242 259 263 267 282 286 304 305 309	
310 311 312 315 341 344 345 368 413	
Digital Audio Control.....	030
Durabrand.....	040 434
EAD.....	159
Eclipse.....	209
Elan.....	041
ESA.....	160
Fisher.....	114
Fosgate.....	042
Garrard.....	128
Gateway.....	145
GE.....	020
Glory Horse.....	133
Go Video.....	144
GPX.....	404 421
Gradiente.....	389
Halfer.....	161
Harman/Kardon.....	013 026 073
078 088 264 319 397	
Hitachi.....	114
Honyas.....	162
iLive.....	429
Initial.....	137
Inkel.....	122
Insignia.....	337 338 416
Integra.....	055
Jamo.....	275
JBL.....	051 088 397
Jensen.....	163
Jerrold.....	391
JVC.....	004 023 092 097 201 231
249 261 272 273 300 303 307 318 355 359	
360 366 373 376 377 408	

Kenwood.....	005 089 105 106 185
186 188 189 198 200 219 223 232 237 240	
251 255 296 308 320 331 370 380	
KLH.....	093 094
Knoll System.....	043
Koss.....	091 394
Krell.....	326
Lasonic.....	149
Left Coast.....	026
Lenoxx.....	138
Lexion.....	130
LG.....	406 432
Linn.....	073
Liquid Video.....	141
Lloyds.....	125
Logitech.....	044
Luxman.....	045
LXI.....	124
Magnadyne.....	164
Magnavox.....	016 061 073
074 100 401	
Marantz.....	026 061 073 329 340
Mark Levinson.....	046
McIntosh.....	047
MCS.....	126
Memorex.....	165
Midland.....	048
Mitsubishi.....	290 313
Modulaire.....	125
Motorola.....	139
NAD.....	066
Nakamichi.....	065 067 070
NEC.....	027
Neo.....	158
Nexstech.....	119
Niro.....	166
Norcent.....	135
Nova.....	167
Omnifi.....	147
Onkyo.....	006 055 057
069 077 101 190 194 203 210 213 233 252	
260 265 266 269 270 271 274 278 291 292	
306 323 324 348 350 398	
Optimus.....	022 074 076 079 080
Oritron.....	091
Panasonic.....	002 087 102 108 112
113 153 229 289 301 316 354 357 364 375	
385 386 390 395 396 422 423 424 425 426	
427 433	
Parasound.....	062
Penny.....	125
Philco.....	168
Philips.....	012 026 061
073 085 349 362 379 412	
philips Magnavox.....	435
Pioneer.....	003 022 052 071 074
079 183 184 192 193 195 212 221 222 224	
238 239 241 353 314 330 336 342 343 346	
352 383	
Polaroid.....	436
Polk Audio.....	026 073 328
Proscan.....	083
Pyle.....	169
Radio Shack.....	133 434
RCA.....	007 022 074 079 080 083
093 099 363 367 372 380 393 434	
RCA & Dimensia.....	437
Realistic.....	125
Regent.....	138
Rio.....	116
Rotel.....	334
Saba.....	143
Samsung.....	011 068 098
332 428 431	
Sansui.....	073
Sanyo.....	096 114 414
Schneider.....	170
Scientific Atlanta.....	127
Scott.....	123
Sharp.....	015 361 378 419
Sharp Image.....	133
Sherwood.....	297 339 420
Shinsonic.....	171
shure.....	027
Skyfi.....	158
Sonic Blue.....	116
Sony.....	000 025 050 084 103 110 111 115
178 179 180 181 182 187 197 207 215 216	
217 218 230 235 276 277 293 294 295 325	
356 358 365 374 382 387 392 400 430	
Soundesign.....	020 076
Soundmatters.....	063

SoundStream.....	049
Starcom.....	391
Stereophonics.....	079
STS.....	172
Sunfire.....	089
Sylvania.....	327
Symphonic.....	150
TAG McLaren.....	173
Tao.....	158
Teac.....	080 093
Technics.....	008 204 208
211 228 280 281 283 299	
Techwood.....	174
Thomson.....	175
Thorens.....	061
Toshiba.....	410
Vector Research.....	176
Venturer.....	093 415
Victor.....	023
Wards.....	020 071 073 346
XM Radio.....	158
Yamaha.....	001 021 024 053 054 055
059 060 064 081 086 191 196 199 206 234	
236 243 244 245 246 247 262 268 284 285	
288 302 317 321 347 351 402 405	
Yorx.....	125
Zenith.....	019 333 406

## Cable Codes

ABC.....	008 009 022 026 032 034
040 041 042 081 085	
Adelphia.....	005 025
Americast.....	092
Antronix.....	045 046
Archer.....	046 047
AT & T.....	002
Bell South.....	092
Cable Vision.....	004 102
Cabletenna.....	045
Cableview.....	044
Citizen.....	051
Clearmaste.....	091
ClearMax.....	091
Colour Voice.....	049 050
Comcast.....	000 001 039
Comtronics.....	035 051
Contec.....	026 031 053
Coolmax.....	091
COX.....	001
Director.....	001 089
Eastern.....	054
Everquest.....	035 086
Focus.....	088
GC Electronics.....	046 051
GE.....	040 041
Gemini.....	055 056 086
General Instrument.....	000 001 041 083
089 101	
Goldstar.....	035 036
Hamlin.....	057 058 059 065 071
074 082 095 096	
Hitachi.....	041
illico.....	102
Jasco.....	086
Jerrold.....	001 041 055 060
061 075 081 083 086 087 089 101	
Magnavox.....	062
Memorex.....	063 085
Monarch.....	051
Motorola.....	001 002 018 039 087
089 094 101 103	
Movie Time.....	051 064
Multi Canal.....	051
Multitech.....	091
NEC.....	043
NET Brazil.....	006
Novavision.....	027
NSC.....	064
Oak.....	053 066
Pace.....	007 008 009 010 011
012 013 014 015 016 017 022 024 025	
Panasonic.....	077 080 085
Paragon.....	085
Philips.....	048 049 050 052 056
062 067 068 069 098 099	
Philips Magnavox.....	056 098
Pioneer.....	007 019 024
025 036 037 070 084 090 102	
Popular Mechanics.....	088
Proscan.....	040 041
Pulsa.....	051 085
Quasar.....	085

Radio Shack.....086 091  
 RCA.....044 076 078 080 083  
 Realistic.....046  
 Recoton.....088  
 Regal.....059 071 082 096 097  
 Regency.....054  
 Rembrandt.....041  
 Rogers.....102  
 Runco.....085  
 Samsung.....035 036 037 038 051  
 Scientific Atlanta.....002 005 007 008 009 019  
 020 022 023 024 025 026 027 028 029 030  
 031 032 033 034 102  
 Signal.....035 051 055 086  
 Signature.....041  
 SL Marx.....035  
 Sony.....004 093  
 Sprucer.....080  
 Standard Component.....072 073  
 Starcom.....055 081 086  
 Stargate.....035 051 055 086  
 Starquest.....055 086  
 Supercable.....087 104  
 Supermax.....091  
 TeleView.....035 051  
 TIME WARNER.....003 102  
 Timeless.....035  
 Tocom.....042 060  
 Toshiba.....085  
 Tristar.....091  
 Tusa.....055 086  
 TV86.....064  
 U.S.Electronics.....026  
 Unika.....045 046  
 United Cable.....081  
 Universal.....045 046 047  
 V2.....091  
 Verizon.....105  
 Videotron.....102  
 View Star.....053 062 064  
 Vision.....091  
 Vortex View.....091  
 Zenith.....079 085 092 100  
 Zentek.....088

#### CD Codes

Aiwa.....009  
 BOSE.....011  
 Denon.....007 019  
 Harman/Kardon.....004  
 JVC.....001 013 025 026  
 Kenwood.....010 014  
 Marantz.....015  
 Onkyo.....006 016  
 Panasonic.....000 017 023 029  
 Philips.....003 032  
 Pioneer.....005  
 RCA.....028  
 Sanyo.....022  
 Sharp.....002  
 Sherwood.....020  
 Sony.....012 024 027 030 031  
 Teac.....021  
 Technics.....008  
 Yamaha.....018

#### DVD

Accele Vision.....177  
 Accurian.....353  
 Advent.....029  
 Aiwa.....017 232  
 Akai.....022 236  
 Alco.....027  
 Allegro.....059  
 Alpine.....220  
 Amphion MediaWorks.....014 033  
 AMW.....014 033  
 Anaba.....067  
 Anam.....068  
 Apex.....005 045 046 126 136 164 166 176  
 188 242 243 244 324 390 457 461  
 Apple.....426  
 Arrgo.....050  
 Aspire.....032  
 Astar.....351  
 Audiologic.....069  
 Audiovox.....004 011 027 224 454 471 475  
 Axion.....070  
 B & K.....071  
 Bang & Olufsen.....048  
 Bel Canto Design.....072  
 Blaupunkt.....046 153  
 Blue Parade.....043  
 BOSE.....245 430 441  
 Boss Audio System.....073 444  
 Brooksonic.....022 233 372 406  
 California Audio Labs.....024  
 CambridgeSoundWorks.....474  
 CAVS.....074

CineVision.....049 113 414  
 Clarion.....246  
 Classic.....216 247 463  
 Coby.....012 030 031 157 192 206 451  
 Criterion.....075  
 Curtis.....451  
 Curtis Mathes.....060  
 CyberHome.....006 050  
 Cytron.....491  
 Daewoo.....141 234 271 419  
 Denon.....004 024 116  
 165 175 195 296 467  
 DiamondVision.....289  
 Disney.....010 140  
 Dual.....076  
 Duarabrand.....027 051 054 113 259  
 DVD2000.....040  
 Eclipse.....301  
 Elta.....084  
 Eltax.....064  
 Emerson.....010 023 052 248 391  
 395 465  
 Enterprise.....056  
 ESA.....052 235  
 Farenheit.....077  
 Fisher.....249 280  
 Flex Vision.....078  
 Fun TV.....079  
 Funai.....010 052 340 379 391  
 Gateway.....323  
 GE.....041 046 125 167 205 250  
 Go Video.....003 187 226 227 323 402 404  
 413 418 420 421  
 Goldstar.....425  
 GPX.....251 278 451 458  
 Gradiente.....024 274  
 Greenhill.....046  
 Grundig.....042  
 Harman/Kardon.....199 210  
 Hitachi.....003 144  
 200 217 299 376 417  
 Hiteker.....045  
 Honda.....080  
 Honyas.....081  
 iLive.....484  
 iLo.....053  
 Ingelen.....105  
 Initial.....046  
 Insignia.....013 052 113 375 470  
 Integra.....025 043 057 062  
 Irradio.....346  
 Jamo.....082  
 Jaton.....083  
 JBL.....452  
 Jenken.....106  
 Jensen.....031  
 JMB.....107  
 JVC.....007 044 142 143  
 207 212 219 269 281 317 318 319 321 364  
 365 366 367 397 398 399 400 403 409  
 Jwin.....084  
 Karcher.....108  
 Kawasaki.....027  
 Kendo.....109  
 Kenwood.....004 024 116 198 204 214 230  
 231 252  
 KLH.....027 046 147  
 Konka.....018 019  
 Koss.....015 026 035 448  
 Lasonic.....253  
 Landel.....222  
 Lenoxx.....034 051 054  
 Lexia.....110  
 Lexicon.....085  
 LG.....013 284 331 333 352 369  
 370 373 460 486 488  
 Lifetec.....111  
 Limit.....110  
 Liquid Video.....035  
 Liteon.....323 332 348 353  
 Loewe.....086  
 Logiclub.....104  
 Logix.....112  
 Luxman.....113  
 Luxor.....109  
 Magnavox.....010 023 039 042 052 150  
 156 185 326 356 380 388 437 456  
 Malata.....087  
 Marantz.....042 156 275  
 Memorex.....010 022 140 254  
 Microsoft.....041  
 Mintek.....046 255  
 Mitsubishi.....016 038 040 161 194  
 Momitsu.....088  
 Mustek.....458  
 NAD.....248 256  
 Nakamichi.....257  
 Nesa.....046  
 Next Base.....058

Nexxtech.....055 276  
 Niro.....089  
 Nissoho Iwai.....079  
 Norcent.....030 222 237 258 279  
 Onkyo.....025 039 159  
 190 225 453  
 Oppo.....047  
 Optiview.....067  
 Oritron.....026 035 260  
 Orion.....022  
 Panasonic.....004 024 039 116 117 127 149  
 152 172 173 178 208 265 266 267 290 291  
 292 299 300 312 336 341 371 383 385 386  
 387 407 431 432 434 436 438 443 449 450  
 476 477 478 479 480 489 490  
 Philco.....065  
 Phillips.....002 010 039 042 150 156 162 196  
 209 294 305 334 337 342 391 437 448  
 philips Magnavox.....162 209 337  
 Pioneer.....009 036 043 134  
 146 160 170 181 193 201 203 238 282 295  
 313 314 315 339 377 429  
 Polaroid.....014 390 423  
 Polk Audio.....042  
 Portland.....090  
 Presidian.....010 391  
 Prima.....091  
 Princeton.....092  
 Proceed.....045  
 Proscan.....041 125 184  
 Provision.....093  
 Pye.....356  
 Qwestar.....026 239 260  
 RCA.....000 008 027 041  
 043 046 125 130 179 184 191 197 228 288  
 338 389 401 411 422 447  
 regent.....034  
 Rio.....066  
 Rotel.....044  
 Rowa.....028  
 Saba.....094  
 Sampo.....261  
 Samsung.....003 024 120 124 139 145 148  
 183 189 285 293 322 325 330 336 355 357  
 368 384 396 405 412 415 439 445 472 481  
 485 487  
 Sansui.....022 233 378  
 Sanyo.....022 280 347 424 468  
 Sensory Science.....323  
 SEG.....014  
 Sharp.....010 128 137 320  
 343 344 374 379 410 473  
 Sharper Image.....095  
 Sherwood.....262 474  
 Shinco.....166 240  
 Shinsonic.....037  
 Sigma Designs.....092  
 Sonic Blue.....059 061 063 066  
 Sony.....001 020 037 115 118 121  
 122 123 131 133 135 154 155 158 163 168  
 223 229 268 283 306 307 308 335 354 358  
 360 362 381 392 394 427 428 433 435 440  
 442 446 455 464 466 482 483  
 Sungale.....270  
 Superscan.....023  
 SVA.....096  
 Sylvania.....010 023 052  
 340 391 395 416  
 Symphonic.....010 391  
 Teac.....027 224  
 Technics.....004 024  
 Technosonic.....097  
 Techwood.....241 263  
 Terapin.....098  
 Theta Digital.....043  
 Tivo.....099  
 Toshiba.....002 021 022 039 119 129  
 132 138 171 180 182 286 297 302 303 304  
 309 310 311 316 327 328 329 359 363 382  
 393 408 462  
 Tredex.....100  
 Trutech.....273  
 TView.....067  
 Urban Concepts.....039  
 US Logic.....224  
 Venturer.....027 469  
 Vizio.....101  
 Vocopro.....102  
 Westinghouse.....492  
 Xbox.....041  
 Xwave.....103  
 Yamaha.....024 042 116 150 169 174  
 196 202 211 215 218 277 345 459  
 Zenith.....013 039 113 151 186 213 227 264  
 298 349 350 369 425 460  
 WHITE WESTINGHOUSE.....492

## 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. Remember to add the code for the database device type 0 for DVD, 4 for VCR, [0### 4###].

Broksonic	[372 062]	[022 072]
[406 088]		
Hitachi	[376 013]	[417 103]
Insignia	[375 016]	[013 047]
[113 117]		
JVC	[364 052]	[365 053]
[366 054]	[367 055]	[317 056]
[319 059]	[403 094]	[397 079]
[399 081]	[400 082]	[403 085]
[317 056]	[318 058]	[319 059]
LG	[369 016]	[373 060]
[013 047]	[331 060]	[370 060]
Pioneer		[377 064]
Sansui	[378 065]	[022 072]
Sharp	[374 124]	[379 125]
[410 111]		
Toshiba	[363 051]	[382 067]
[119 096]	[393 076]	[408 092]
Zenith	[369 016]	[151 116]
Apex		[390 074]
CineVision	[113 101]	[414 117]
Daewoo		[419 107]
Durabrand		[113 117]
Emerson	[395 010]	[395 103]
Funai		[379 125]
Go Video	[227 100]	[402 084]
[413 087]	[418 106]	[420 108]
Goldstar		[425 114]
Magnavox	[156 009]	[380 126]
[388 071]		
Memorex		[022 072]
Panasonic	[383 061]	[385 068]
[407 089]	[407 105]	[371 061]
Philips	[156 009]	[391 075]
Polaroid	[390 074]	[423 112]
Presidian		[391 075]
RCA	[389 073]	[401 083]
[411 097]	[422 110]	
Samsung	[368 005]	[384 070]
[396 078]	[405 087]	[412 098]
Sanyo		[424 113]
Sony	[360 048]	[361 049]
[381 066]	[392 093]	[394 093]
[392 090]		
Sylvania	[391 075]	[395 102]
[416 103]		
Symphonic		[391 075]
Diamond Vision		[289 126]
AKAI		[236 127]
Superscan		[023 128]

## DVR Codes

ABS	020
Alienware	020
AT&T	030
Bang & Olufsen	023
Cyberpower	020
Dell	020
DIRECTV	002 007 008 010
011 012 015 019 021 024 026 027	
Dish Network	017 018
Dishpro	017
EchoStar	017 018
ExpressVu	017
Gateway	020
GOI	017
Hewlett Packard	020
HNS	009
Howard Computers	020
HP	020
HTS	017
Hughes	001 010 011 012 015
Hughes Network System	001 010 011 012
015 024 026 027	
Humax	015
Hush	020
iBUYPOWER	020
JVC	001 017 018
Linksys	020
Media Center PC	020
Microsoft	020
Mind	020
Niveus Media	020
Northgate	020
Panasonic	005 022 030
Philips	001 009 012 015
024 025	
Pioneer	031
Proscan	019
RCA	001 002 009 016 019 021
ReplayTV	004 022 030
Samsung	009 024

Sonic Blue	004 022 030
Sony	000 013 014 020
Stack 9 \ Philips	001 009 012 015 024 025
Pioneer	031
Proscan	019
RCA	001 002 009 016 019 021
ReplayTV	004 022 030
Samsung	009 024
Sonic Blue	004 022 030
Sony	000 013 014 020
Stack 9	020
Systemax	020
Tagar Systems	020
Tivo	000 001 002 003 010
013 014 015 025 026 027 028	
Toshiba	006 020
Touch	020
UltimateTV	021
Viewsonic	020
Voodoo	020
ZT Group	020

## Home Theatre in a Box

Where the code is listed as [### #] the first is for the DVD and the second is for the AUDIO. Other-wise just the one code operates both the DVD and the AUDIO. Remember to add the code for the data-base device Type, 0 for DVD, 5 for Audio [0### 5###].

Apex	[457 403]	[461 407]
Audiovox	[471 417]	[475 399]
[454 399]		
BOSE	[430 384]	[441 010]
CambridgeSoundWorks		[474 418]
Classic		[463 411]
Coby		[451 018]
Curtis		[451 409]
Denon		[467 413]
Emerson		[465 017]
GPX	[451 421]	[458 404]
iLive		[484 429]
Insignia		[470 416]
Jamo		[082 275]
JBL		[452 397]
Koss		[448 394]
LG	[284 432]	[460 406]
[486 406]		
Magnavox	[437 016]	[456 401]
Onkyo		[453 398]
Panasonic	[431 385]	[432 390]
[434 386]	[436 385]	[438 385]
[450 396]	[476 422]	[477 423]
[479 426]	[480 427]	[489 433]
[438 424]		
Philips	[437 016]	[448 412]
Pioneer		[429 383]
RCA		[447 393]
Samsung	[439 011]	[445 011]
[481 332]	[485 431]	[487 431]
[481 428]		
Sanyo		[468 414]
Sharp		[473 419]
Sherwood		[474 420]
Sony	[427 382]	[433 430]
[440 430]	[442 387]	[446 430]
[464 387]	[466 430]	[482 430]
[433 392]		
Toshiba		[462 410]
Venturer		[469 415]
Yamaha		[459 405]
Zenith	[460 406]	[425 019]
Durabrand		[259 434]
JVC		[143 408]

## Satellite TV Codes

Alphastar	051
Amstrad	100
Chaparral	045
DIRECTV	001 006 007 008 009 010 013
014 015 031 032 034 036 039 043 044 054	
055 057 058 059 062 063 064 066 067 068	
069 074 078 079 080 081 084 086 087	
Dish Network	002 004 017 018 019
020 021 022 023 024 025 026 027 028 029	
030 033 035 037 041 061 083	
Dishpro	035 037 061
Drake	046
EchoStar	002 004 033 035 037 061 071 083
ExpressVu	037 061 07
BELL EXPRESSVU	071
FORTEC STAR	101
GE	063 087
General Instrument	047 048 056
GOI	061
Grundig	100
Hisense	060
Hitachi	009
HTS	061
Hughes Network Systems	003 006
008 015 031 043 057 064 073	
Humax	090

iLo	060
Jerrold	056
JVC	002 004 033 052 061 083
LG	011 059
Magnavox	014
Memorex	014
Mitsubishi	006 008 064 093
Motorola	038 056 065
Next Level	056
Pace	100
Panasonic	010 062 086 092 096 100
Pansat	088
Paysat	014
Philips	001 003 009 014 015 031
054 055 057 064 081	
Philips Magnavox	009 054 055
Pioneer	015
Primostar	050
Proscan	013 036 063 095
Proton	060
Radio Shack	056
RCA	000 003 013 034 040
044 058 063 075 076 077 078 080 082 091	
094 095 097	
Realistic	049
Samsung	003 007 015 057 070 085 098
Sharp	016
SKY NETWORK	100
Sony	005 032 042 066 074 079 084
Star Choice	038 056 072
STS	053
Sylvania	099
Tivo	003 015 057
Toshiba	006 008 009 064
UltimateTV	058
Uniden	014
US Digital	060
USDTV	060
Viewsat	089
Voom	056
Zenith	012 067

## VCR Codes

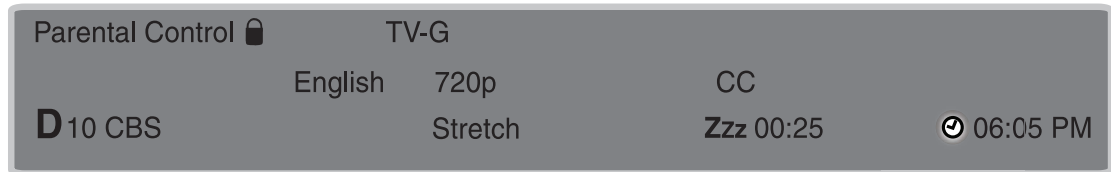
ABS	038
Adventura	010 028 125
ADMIRAL	097
Aiwa	010 028 035 125
Aiko	107
Akai	017 018 033 127
Alienware	038
American High	025
Apex	074
Asha	021
Audio Dynamics	019
Audiovox	022 035 121
Bang & Olufsen	037
Beaumarck	021
Bell & Howell	020
Broksonic	027 062 072 088
Calix	022 035
Candle	021 022 023 024
Canon	015 025
CARVER	104
CCE	107
CineVision	101 117
Citizen	021 022 023 024 035
Colortyme	019
COLT	046
Craig	021 022 026 035
Curtis Mathes	012 015 019 021 024 025
Cybernex	021
CyberPower	038
Cyberpower	038
Daewoo	011 023 027 028 107
Davidson	010 125
DBX	019
Dell	038
Denon	030
DiamondVision	126
Dimensia	012
Durabrand	017 117
Dynatech	010 028 125
Electrohome	022 035
Electrohome	022 035
Emerson	010 017 022 023 025
027 028 035 075 103 125	
Emerex	001
ESA	047
Fisher	020 026 045
Fuji	018 025
Funai	010 028 036 075 125
Garrard	010 028 125
Gateway	038
GE	012 015 021 025
Go Video	084 086 087 100 106 108 109
Goldstar	019 022 024 035 114
Gradiente	010 028 125
Harley Davidson	028
Harman/Kardon	019

HARWOOD .....	046	SIGNATURE .....	110
Headquater .....	020	Sony.....001 010 018 031 038	
Hewlett Packard.....	038	040 048 049 050 066 077 090 093 123 125	
Hi-Q .....	026	Stack.....	038
Hitachi.....010 013 030 033 103 125		Stack 9.....	038
Howard Computers.....	038	STS.....	025
HP.....	038	Superscan .....	128
Hush.....	038	Sylvania 010 015 025 028 075 102 103 125	
Hughes Network Systems .....	030	Symphonic.....010 028 036 075 125	
iBUYPOWER.....	038	Systemax .....	038
Insignia.....016 047 117		Tagar Systems.....	038
Instant Replay.....	025	Tandy .....	020
JC Penney.015 019 020 021 022 025 0230		Tashiko.....	022
JCL.....	025	Tatung .....	033
Jesen.....030 033		Teac.....010 028 033 125	
JVC.....004 019 020 024 033		Technics .....	025
041 052 053 054 055 056 057 058 059		Teknika.....010 022 025 028 035 125	
079 080 081 082 085 094 095		Thomas.....010 125	
KEC.....035		TMK.....	021
Kenwood.....019 020 024 033		Toshiba.....002 023 030 038 051	
Kodak.....022 025 035		067 076 091 092 096 115	
KLH.....	046	Totevision .....	021 022 035
LG.....016 022 047 060		Touch.....	038
Linksys.....	038	Unitech.....	021
Lloyd's.....010 028 125		Vector Research.....019 023	
LOGIK.....	046	Vector.....	002
LXI.....022 035		Video Concepts.....019 023	
magnavox ...006 007 010 015 025 032 071		Videomagic .....	035
104 125		Videosonic.....	021
Magnin.....	022	Viewsonic.....	038
magnasonic.....	010	Villain.....010 125	
Marantz.....019 020 024 025		Voodoo.....	038
Marta.....022 035		Wards.....010 021 022 023 0250	
Matsushita.....	025	26 028 030 125	
Media Center PC.....	038	White Westinghouse.....	036
MEI.....	025	Westinghouse.....	046
Memorex.....007 010 014 020 021		XR-100.....010 025 028 125	
022 025 026 028 032 035 046 072 125		Yamaha.....019 020 024 033	
MGN Technology .....	021	Zenith...007 010 016 018 032 034 099 116	
MGA.....	008	117 120 122 125	
Microsoft .....	038	ZT Group.....	038
Midland .....	029		
Mind.....	038		
Minolta.....	030		
Mitsubishi .....	008 030		
Motorola.....	025		
MONTGOMERY WARD.....	097		
MTC.....010 021 125			
Multitech.....010 021 028 029 125			
NEC.....019 020 024 033			
Nikko.....022 035			
Niveus Media.....	038		
Noblex.....	021		
Northgate.....	038		
Olympus.....	025		
Orion.....	014		
Panasonic ...000 015 025 039 061 068 069			
089 105 118 119			
Penney.....	035		
Pentax.....	030		
Pentex Research .....	024		
Philco.....015 025			
Phillips.....009 025 075 104			
Phillips Magnavox .....	104		
Pilot.....022 035			
Pioneer.....030 064			
Polaroid.....074 112			
Polk Audio.....	104		
Presidian .....	075		
Proscan.....012 043 044			
PROTEC.....	046		
PROFITRONIC.....	021		
Pulsar.....007 032			
Quarter.....	020		
Quartz.....	020		
Quasar.....015 025			
Radio Shack.....010 022 125			
Radio Shack/Realistic.015 020 021 022025			
026 028			
Radix.....022 035			
Randex.....022 035			
RCA.....003 012 017 021 025			
030 042 073 083 097 110			
Realistic.010 015 020 021 022 023 025026			
028 035 125			
Ricavision .....	038		
Ricoh.....	034		
Runco.....007 032			
Samsung.....005 021 023 029 070 078 087			
098			
Sanky.....007 032			
Sunsui.....010 014 033 065 072 125			
Sanyo.....020 021 026 045 113			
Scott.....023 027			
Sears....010 020 022 025 026 030 035 125			
Sharp.....010 063 111 124 125			
Shintom.....	018		
Shogun.....	021		
Singer.....025 034			

## 3 Using TV Features

### Channel Banner

There are several indicators that may appear when you press the INFO button on the remote control. 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).



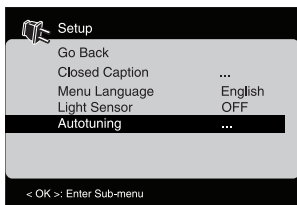
<b>Parental Control</b>	The Parental Control state (locked or unlocked) of the current program.
<b>TV-G</b>	Rating information of the current program.
<b>Stereo</b>	If the current channel is analog, "Stereo" appears when broadcasting in stereo and "Mono" appears when the current channel is broadcasting in mono. If the current channel is digital, this space is blank.
<b>SAP</b>	If the current channel is analog, this shows it is broadcasting SAP (Second Audio Program) information. If the current channel is digital, this area shows the language.
<b>HDTV 720p</b>	Broadcast signal resolution.
<b>CC</b>	Closed Captioning is available on the current channel.
<b>D 10 CBS</b>	The "D" denotes a digital channel; and an "A" denotes an analog channel. The channel, sub-channel (if available for digital channels) and program (only for digital.)
<b>Stretch</b>	Current screen format. If there are bars on the screen, you may be able to delete them by pressing the FORMAT button on the remote. Go to page 35 for more information on screen formats.
<b>ZZZ 00:25</b>	Current time left on sleep timer, if the sleep timer is set.
<b>02:16 AM</b>	Current time.

### Autotuning

The Autotuning feature automatically tunes the TV to the correct video input channel for the different components connected to your TV. When you set up Autotuning in the menu system, you don't have to remember to change your TV to the VID1 input, for example, when you want to watch a tape on the VCR. To set up the Autotuning feature, follow these steps:

1. Press the MENU button (the *Main Menu* appears).
2. Highlight *Setup* and press OK on your remote control.
3. Highlight *Autotuning* and press OK.
4. Choose which component button you would like to set:
  - Set SAT-AUX Channel** - Allows you to set the channel the TV tunes to when you press the SAT/AUX button.
  - Set DVD Channel** - Allows you to set the channel the TV tunes to when you press the DVD button.
5. Press the right arrow to select the choice that matches the way you have the component connected to this TV.
6. Press the MENU button repeatedly to select the channel and exit the Autotuning Mode.

**Note :** This feature only works with other RCA components.



You can select from the following inputs or channels:

**Disabled** – Choose this option if you don't have a component connected to the TV, or if you don't want the TV to automatically tune to the correct channel/input when you're using this component.

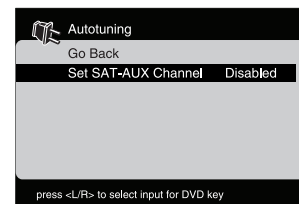
**Channel 3 or 4** - Choose this option if the component is connected to the ANTENNA/CABLE jack on the back of the TV, and you want the TV to tune to channel 3 when you press the corresponding button on the remote. Reminder: make sure the component's Channel 3/4 switch is set to channel 3.

**VID1, VID2 or S-VIDEO (Video Input)** – Choose this option if the component is connected to the VIDEO INPUT 1 jack on the back of the TV or the VIDEO INPUT 2 jack (or S-VIDEO INPUT jack) on the side of the TV and you want the TV to tune to the VIDEO INPUT channel when you press the corresponding component button.

**CMPT (Component Video Input)** – Choose this option when a compatible component video source, such as an HDTV tuner, satellite receiver, or DVD player, is connected to the three component VIDEO INPUT jacks (Y Pb Pr) on the back of the TV and you want the TV to tune to the component VIDEO INPUT channel (CMPT) when you press the corresponding component button.

**PC** – Choose this option when the component is connected to the PC INPUT jack on the back of the TV and you want the TV to tune to the PC input when you press the corresponding component button.

**HDMI1 or HDMI2** – Choose this option when the component is connected to the HDMI1/DVI or HDMI2/DVI INPUT on the back of the TV, and you want the TV to tune to the HDMI INPUT channel when you press the corresponding component button.



## Parental Controls and V-Chip

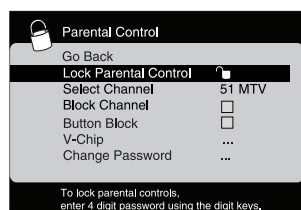
The choices in the *US V-Chip* and *Canada V-Chip* menus involve software inside your TV, referred to as V-Chip, which allows you to block TV programs and movies. TV programs can be blocked by age-based ratings, such as *TV-MA* (See page 33). If available, TV programs can also be blocked by content, such as adult language (*L*) (See page 33). Movies can only be blocked by age-based ratings (See page 33). Once you block programs, you can unblock them by entering a password. By default, the software inside your TV is turned off or unlocked. For instructions to lock V-Chip, see page 32.

### V-Chip - US 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 receive a message that the channel is currently blocked. Change the channel or press OK to enter your password and temporarily deactivate the parental controls.

Broadcasters are not required to provide content themes, so programs received with no content themes are blocked only if you block their age-based rating. You can also block programs that have been given an Exempt rating, and programs that are considered unrated. See page 44 for the US and Canada ratings explanations.

**Note:** Parental control settings are not available for HDMI1, HDMI2, CMPT, or PC INPUTS. These settings must be set in the connected component's parental controls.



## Lock/Unlock Parental Controls

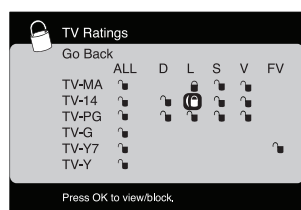
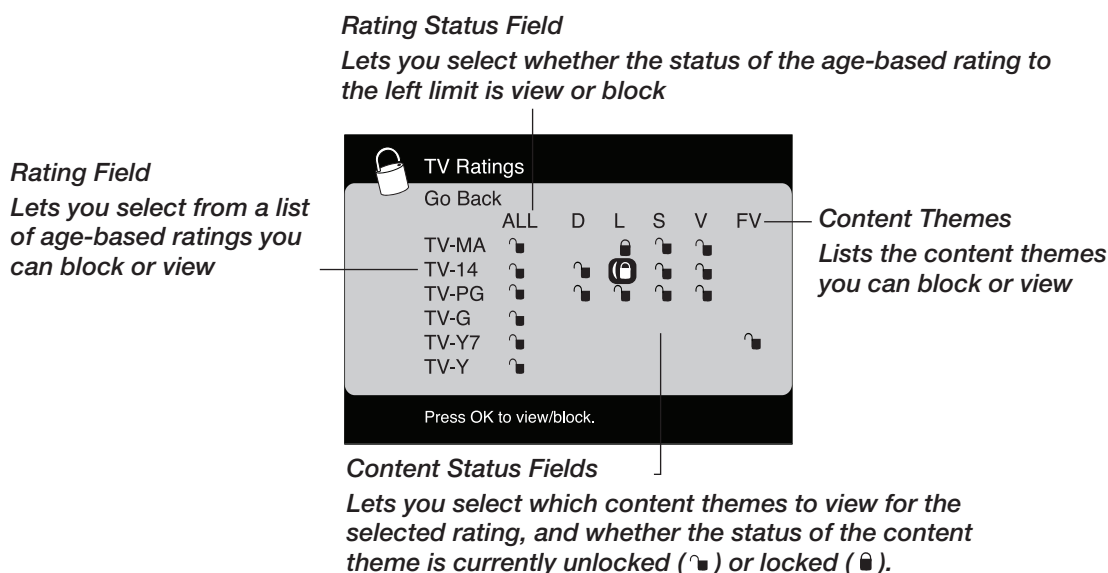
- When the Parental Control Menu is accessed from the Main Menu and the parental controls are permanently unlocked, the following message is displayed:  
*"Parental Controls are UNLOCKED. Rating limits and Channel Block will NOT require a password to view the picture. Use 'Lock Parental Control'" to lock. Press OK key to continue."*
- Pressing the OK key displays the Parental Control Menu and highlights Lock Parental Control.
- To lock parental controls, enter a four-digit password using the digit keys.

**Note:** If you do not lock parental controls, none of the settings for V-Chip, Button Block or Block Channel will take effect.

**Note:** When you enter the correct password, the Password menu is cleared and you enter the Parental Control Menu. If an invalid password is entered, you must enter your password again. If you forget your password, enter the factory default code: 4116. If you want to change the password, see page 35 for more information.

## V-Chip Rating Screen

The following graphic details where items are located within the TV Ratings option with the US V-Chip menu.



## US V-Chip TV Ratings

### Blocking Age-Based Ratings

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

- Choose *Parental Control* from the Main Menu. If parental controls have previously been locked, you must enter your password.
- Highlight and select *V-Chip*. Then highlight and select *US V-Chip*.
- Highlight and select *TV Ratings*.
- Press the up or down arrow to scroll to the rating corresponding with the lowest rating you wish to block.
- Press the OK button to toggle between *View* and *Block*. The status for the rating and all higher ratings automatically changes to *Block*.
- Use the MENU button repeatedly to get return to the Parental Control Menu.
- Select *Lock Parental Control* from the Parental Control Menu. For rating limits to take effect, press OK and enter a four-digit password.

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

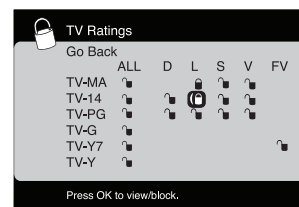
# Blocking Specific Content Themes

You can block programs based on their content. (Content is represented by the D, L, S, V and FV 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. Choose *Parental Control* from the Main Menu. If parental controls have previously been locked, you must enter your password.
2. Highlight and select *V-Chip*. Then highlight and select *US V-Chip*.
3. Highlight and select *TV Ratings*.
4. Determine the content themes you want to block.
5. Press the down arrow to scroll to the rating whose content theme you want to change.
6. Press the right arrow to highlight a particular content theme.
7. Press the OK button to change its status to block. (For example, if you block the language (L) corresponding with *TV-14*. The language for *TV-MA* is blocked as well.)

To view content themes after you've locked them, follow the same steps as above to unlock.

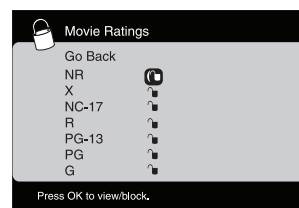
**Note:** If you unlock the language corresponding with *TV-14*, the language for *TV-MA* doesn't unlock. You have to unlock the content theme status for each rating separately.



**Note:** Broadcasters are not required to provide content themes or age-based ratings. You must remember to lock Parental Controls for rating limits to take effect.

Hierarchy of Age-Based Ratings	
TV-MA	Mature Audience Only
TV-14	Parents Strongly Cautioned
TV-PG	Parents Guidance Suggested
TV-G	General Audience
TV-Y7	Directed to Children 7 Years & Older
TV-Y	All Children

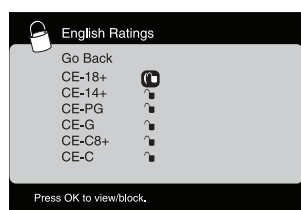
Content Themes	
D	Sexually Explicit Dialogue
L	Adult Language
S	Sexual Situations
V	Violence
FV	Fantasy Violence



## US V-Chip Movie Rating Limit

Set movie rating limits by blocking movies rated above a specified level. To access the Movie Rating Limit Menu, follow these steps:

1. Press MENU on the remote control (Main Menu appears).
2. Select *Parental Control*.
3. Highlight and select *V-Chip*. Then highlight and select *US V-Chip*.
4. Highlight and select *Movie Ratings*.
4. Press the down arrow to scroll to the rating you want to change.
5. Press the OK button to change its status to block (all ratings above the one you selected change to block).
6. Press the MENU button repeatedly to exit the Parental Control Menu.



## Blocking Canada 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, follow these steps:

1. Press MENU on the remote control (the Main Menu appears).
2. Select *Parental Control*.
3. Select *V-Chip*.
4. Select *Canadian V-Chip*.
5. Highlight *English Ratings* or *French Ratings* and press OK.
6. Press the down arrow to scroll to the rating you want to change.
7. Press the OK button to change its status to block (all ratings above the one you selected change to block).
8. Press the MENU button repeatedly to exit the Parental Control Menu.

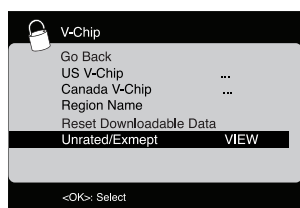
**Note:** These ratings are available only if the broadcaster is sending them.

## Future Rating Region

You might notice an option in your Parental Control 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.

## Reset Downloadable Data

Select this option to reset the downloadable V-Chip data.



## Blocking Unrated/Exempt Programs

The *Unrated/Exempt Ratings* option lets you decide if programs that the V-Chip recognizes as unrated or exempt can be viewed. Unrated TV programs may include news, sports, political, religious, local and weather programs, emergency bulletins, public announcements, and programs without ratings. The Exempt option applies to both US and Canadian unrated programs and Canadian programs rated E.

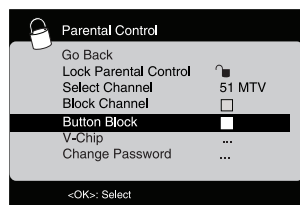
Press the down arrow to highlight *Unrated/Exempt*. Then press the OK button to toggle between *View* and *Block*.

**View** All unrated programs are available.

**Block** All unrated programs are not available.

## Block Channel

Turn this option on to block the channel you choose in the *Select Channel* option. Use the left and right arrows to find the channel you want to block. Then press the down arrow to select *Block Channel*. Press the OK button to place a checkmark in the *Block Channel* box to block the channel. When you tune to that channel, you'll need to enter a password to view the channel if parental control is locked. Press the MENU button repeatedly to exit the Parental Control Menu.



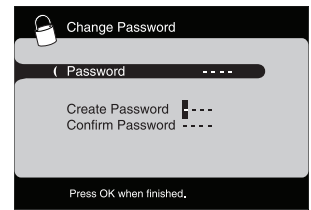
## Button Block

Select this option to block (disable) or unblock (enable) the TV's side panel buttons so that they can't be used. The remote still tunes to any channel. If you're using this to keep children from changing channels, remove access to any remote that is capable of operating the television while you have the side panel blocked. Don't forget to lock parental controls after you change the status. If you don't, the *Button Block* action will not take effect.

## Change Password

To change your password, follow these steps:

1. Press MENU on the remote control (Main Menu appears).
2. Select *Parental Control*.
3. Select *Change Password*; press the OK button to display the Password Resetting menu.
4. Using the number buttons, enter the new password and press OK.
5. Re-enter the same password and press OK to confirm.
6. Press the MENU button repeatedly to exit the Parental Control Menu.



## Additional Features

There are additional features available unrelated to parental controls. These features can be found in other menus.

### Screen Formats

Screen format refers to the way the picture is displayed on your TV. Press the FORMAT 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 fills your screen, but it sometimes is sent in 4/3, which does not fill your screen. It depends on how the station or component connected to your TV is formatting the video. If there are bars on the 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.

### To change the screen formats:

1. Press MENU on the remote control ( the Main Menu appears).
2. Select Picture Mode.
3. Scroll to Screen Formats.
4. Use the left and right arrows to choose the format you desire.
5. Press MENU button repeatedly to exit Picture Mode.

Examples of the different formats appear below. Each format is available for analog video, but it might not be available for digital video.



Normal



Zoom



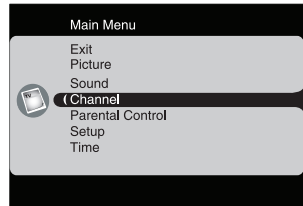
Stretch



Center

## 4 Using the TV Menu

### 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 Control Menu is discussed in Chapter 3. To access the menu system, follow these steps:

1. Press the MENU button.
2. Use the up and down arrow to highlight an option and press OK to display it. The name of the menu is displayed at the top of the menu screen.
3. Press the up and down arrow to move to a different option within the menu. If necessary, press the OK button to display the choices of the option you've highlighted. If available, use the text at the bottom of each screen for help.
4. To return to the Main Menu, press the MENU button repeatedly until it is displayed.

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

There are two ways to exit a menu:

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

### Picture Menu

The Picture Menu contains menus and controls to configure the way the picture appears. The Picture Menu options apply to the video for the main TV and VIDEO INPUT selections. All picture options can be applied to each input - *VID1*, *VID2*, *CMPT*, *HDMI1* or *HDMI2*, and *PC*.

#### Picture Settings:

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

**Brightness** - Use the left or right arrows to adjust the brightness of the picture.

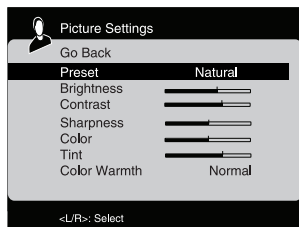
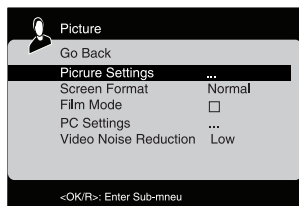
**Contrast** - Use the left or right arrows to adjust the difference between the light and dark areas of the picture.

**Sharpness (not available on PC)** - Use the right or left arrows to adjust the crispness of the edges in the picture.

**Color** - Use the right or left arrows to adjust the richness of the color.

**Tint (not available on PC)** - This option adjusts the balance between the red and green levels.

**Color Warmth** - This option displays a list that allows you to select one of three automatic color adjustments: *Cool* for a bluer palette of picture colors; *Normal*; or *Warm* for a redder palette of color. The warm setting corresponds to the NTSC standard of 6500 K. When you change any of these picture settings, the Picture Preset changes to *Personal*. Use the left or right arrows to make adjustments.



**Screen Format** – Change the screen format, choosing from *Normal*, *Center*, *Zoom* and *Stretch*. For more information about screen formats, go to page 35.

**Film Mode - (3:2 Pulldown)** – This option automatically detects video sources that were originally recorded on film (such as most movies) and converts them to a different format (for TV broadcast, for example). Film Mode processes the converted signal so that it appears as close to the original as possible. Another name for this process is 3:2 pulldown. When using Film Mode, keep these tips in mind:

- The *On* setting (recommended) – When you check this setting, it enables the feature only when the TV detects that movie playback quality could be improved.
- The *Off* setting (box unchecked) turns off the film mode conversion. Try using this setting if you think the reverse 3:2 pulldown is causing distortions in your picture.

**PC Settings** – This option allows you to adjust the PC settings when in PC Mode.

**Video Noise Reduction (not available on PC or digital channels)** – This setting reduces picture “static” or any type of interference. This feature is especially useful for providing a clearer picture in weak analog signal conditions. Press the right arrow to choose between these options:

*Low* for a softer, smoother picture that retains picture sharpness and detail.

*Normal* 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 reduction is available for CMPT inputs only if the signal is 480i.

## Sound Menu

The Sound Menu lets you adjust audio output. To access the Sound Menu, press MENU on the remote, and then select Sound from the Main Menu. The following audio items can be adjusted:

**Treble** – Improves treble output.

**Bass** – Improves bass output.

**Balance** – Use the left or right arrows to adjust the amount of audio sent to the left and right speakers.

**SRS** – Option ON/OFF.

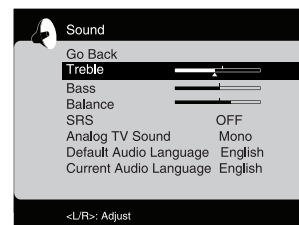
**Analog TV Sound** – Controls the manner in which the sound comes through your speakers. Options available vary according to the input selected:

- Mono (available for regular TV viewing only) – This option plays the sound in mono only. Use this setting when receiving broadcasts with weak stereo signals.
- Stereo – This option splits the incoming stereo audio signal into left and right channels. Most TV programs and recorded materials have stereo audio. The word “stereo” appears in the Channel Banner when you tune to a program that is broadcast in stereo.
- Second Audio Program (SAP) – This option plays the program’s audio in a second language, if available. The letters “SAP” appear in the Channel Banner when you tune to a program that is broadcast with SAP information. SAP audio is broadcast in mono only. SAP is also used to broadcast a program’s audio with descriptions of the video for the visually impaired.

**Default Audio Language** – Use this selection to choose the language you prefer for dialog on digital channels. If your preferred language is being broadcast with a program, the TV plays it. If not, the TV plays the default option for the program (usually English in the US). The default digital channel audio language options are *English*, *French*, *Spanish*, *German*, *Italian*, *Japanese*, *Chinese* and *Korean*.

**Current Audio Language (not available for analog channels)** – Press the right arrow to choose from the list of languages available for the program you’re watching. The language chosen becomes your preferred language for all digital channels until you turn the TV off. If the language chosen is not being broadcast with a program, the TV plays the default language for the program (usually English in the US).

**Note:** The menu grays out when the current channel selected is analog.



## Channel Menu

The Channel Setup Menu allows you to configure the TV with your preferences. Press MENU on the remote control; then select *Channel* from the Main Menu.

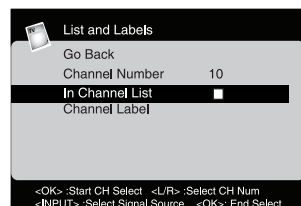
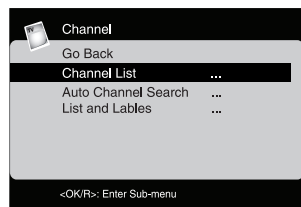
**Channel List** – The Channel List Menu allows you to view all the channels available in your channel list. Press the up or down arrows to highlight a channel and press OK to tune to it. The left and right arrows allow you to scroll to previous or next pages.

**Auto Channel Search** – This option searches for channels the TV is able to receive (See page 18 for more information). To use this option, select Auto Channel Search; then press OK to access the menu. Choose the type of signal you have connected to the ANTENNA/CABLE INPUT.

**List and Labels** – Edit the channels in the list or choose labels for your video inputs.

1. Press the MENU button.
2. Select Channel.
3. Select List and Labels.
4. Press OK to display the sub-menu of *List and Labels*.

- **Channel Number** – Press OK to select. Use the left and right arrows to select the channel number. Or, press the INPUT button; then use the left and right arrows to select a video input channel (VID1, VID2, HDMI1, HDMI2, CMPT, PC or S-VIDEO). Press OK to confirm the selection.
- **In Channel List (only available for TV channels)** - If you've entered a channel you want to add to the channel list, highlight *In Channel List* and press the OK button to place a check in the checkbox. If you've entered a channel you want to delete from the channel list, press the OK button to uncheck the box. When an AV INPUT is displayed in the Channel Number field, the line "In channel list" is grayed out.
- **Channel Label** - This is displayed on the Channel Label, but it is always grayed out as it can't be modified by the user.



## Parental Control Menu

The Parental Control Menu is explained in Chapter 3. Go to Page 31 for more information.

## Setup Menu

### Closed Caption

Many programs are encoded with closed captioning information, which allows you to display the audio portion of a program as text on the TV screen.

**Note:** Closed caption settings are not available for HDMI1, HDMI2, and CMPT INPUTS. These settings must be set in the connected component's menu. Closed captioning is not available on all channels at all times. Only specific programs are encoded with closed captioning information. When a program is closed captioned, CC is displayed in the Channel Banner. See Chapter 3 for more information about the Channel Banner.

To program Closed Caption options:

1. Press the MENU button.
2. Select Setup.
3. Select the options you desire.
4. Press the MENU button repeatedly to exit the Setup Menu.

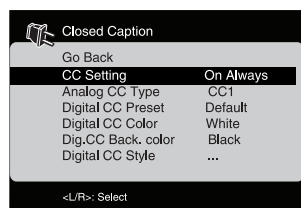
### Closed Caption Options

**CC Setting** – This option allows you to choose the way closed captioning information appears on the screen.

**Off** - No captioning information displayed.

**On Always** – Choose this option if you want captioning information to be shown whenever available.

**On When Muted** – This option allows the closed captioning to display (when available) whenever the TV's sound is muted. The captioning information is not displayed when the sound is not muted.



**Analog CC Type** – This option lets you select the captioning mode used for displaying captioning information, when available. 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.

**Digital CC Type** – This option lets you select a closed caption service mode (1.6) for digital channels, if available.

**Digital CC Preset** – This option lets you select between Default and Custom options, if available. Custom changes according to what you set for the options below.

**Digital CC Color** – This option allows you to choose the color of the closed caption text: *White, Red, Green, Blue, Yellow, Magenta, Cyan or Black.*

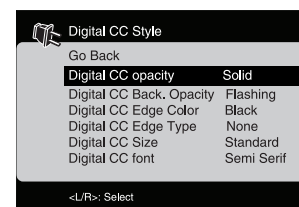
**Digital CC Style** – This option lets you customize the following display options, if available:

- **Digital CC Opacity** – Set the appearance of the digital closed caption text: *Solid, Transparent, Translucent or Flashing.*
- **Digital CC Background Opacity** – Set the appearance of the area behind the digital closed caption text: *Solid, Transparent, Translucent, or Flashing.*
- **Digital CC Edge Color** – Choose the edge color of the digital closed caption text: *Black, White, Red, Green, Blue, Yellow, Magenta, or Cyan.*
- **Digital CC Edge Type** – Choose the edge type for the digital closed caption text: *None, Raised, Depressed, Outline, Left Shadow, or Right Shadow.*
- **Digital CC Size** – Set the size of the digital closed caption text: *Small, Standard or Large.*
- **Digital CC Font** - Select a character design for the digital closed caption text. A font is a complete assortment of letters, numbers, punctuation marks, etc. in a given design. You can choose from a variety of fonts (Styles 1-7).

**Menu Language** – This option allows you to select your preferred language from the menus: *English, Espanol or Francais.*

**Light Sensor** – Choose the On/Off to control the light sensor located on the face of the LCD TV.

**Autotuning** – The Autotuning Menu is explained in Chapter 3. Go to page 30 for more information.



**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.*

## Time Menu

### Enter Time

If you did not set the time reference channel, enter the current time manually.

1. Press the MENU button.
2. Select Time.
3. Press OK to start.
4. Press the left and right arrows to select the input option.
5. Use the up and down arrows to set hours, minutes and AM/PM. Press OK to complete.
6. Press the MENU button repeatedly to exit the Time Menu.

### Auto Time Channel

Choose a station to have the TV set the time for you. Wait approximately one minute after your program this for the time to be set.

### Sleep Timer

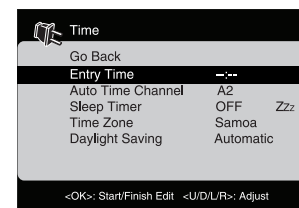
1. Press the MENU button.
2. Select Time.
3. Press the left and right arrows to set the TV to turn off after a given amount of time (from one minute to four hours).
4. Press the MENU button repeatedly to exit the Time Menu.

### Time Zone

Select the current local time: *Eastern, Atlantic, Newfoundland, Samoa, Hawaii, Alaska, Pacific, Central and Mountain.*

### Daylight Saving

Choose between *Off* and *Automatic* Modes.



## 5 Other Information

---

### Frequently Asked Questions (FAQs)

#### **What's the quickest way to view High Definition (HD) video?**

Connect an off-air antenna to the ANTENNA/CABLE Input to view free local digital channels. You may need to purchase an antenna. (See page 12 for more information).

Visit [www.antennaweb.org](http://www.antennaweb.org) for assistance in deciding what type of antenna to use to receive the local digital channels available to you. By entering your location, this mapping program tells you which local analog and digital stations are available using a certain antenna.

#### **Are there other ways to view High Definition (HD) video?**

Besides using an off-air antenna as mentioned above, you can also use a set-top box to receive digital video. Contact your cable company or satellite provider to purchase digital programming and have them connect the box to ensure you are viewing channels the best way.

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

Press the INFO button to display the Channel Banner. Look at the bottom left corner of the screen. An "A" is displayed for an analog channel. A "D" is displayed for a digital channel.

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

Most digital video is sent in a 16/9 format which fills your screen, but is sometimes 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 the 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 format changes as you press the FORMAT button and the format type is displayed at the bottom of the screen. For more information on screen formats, go to page 35.

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

Some channels enabled by the cable company don't carry programming, such as video ondemand. When channels are unavailable, your TV screen is blank or appears like snow. You probably want to remove these channels from your channel list. Remove these in the Channel List Menu. Go to page 38 for more information.

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

If you have both analog and digital channels, the TV is looking for all available channels in the channel list. If you do have digital channels, the TV is also searching for scrambled channels, non-scrambled channels, and 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

### The 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 another device.
- The side panel controls may be locked (disabled). Use the remote control to unlock the side panel controls. Select the *Block Buttons* feature on the Parental Control menu and press OK to uncheck the box.

### There is no picture and no sound but the TV is on.

- You may be tuned to an input with no component connected to it. If you're trying to view a connected component, press INPUT until the picture from that component appears.
- The *Signal Type* option may be set incorrectly. Go to page 18 for detailed instructions.
- The channel may be blank. Try changing channels.
- If you're watching your VCR and it's connected with coaxial cable to the ANTENNA/CABLE 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 make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).

### The sound is fine, but the picture is poor quality.

- If you're getting a black and white picture from a component 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 on the side or back of your TV; three video cables or bundled component video cables (red, blue, and green) connect to the corresponding COMPONENT INPUT jacks on the back of your TV.
- If you're getting no picture from a component you've connected to your TV, you might have your video cable connected to the VIDEO OUTPUT jack on the back of your TV. These jacks are used to connect recording devices. A yellow video cable connects to the yellow VIDEO INPUT jack on the side or back of your TV.
- Check the antenna connections. Make sure all of the cables are firmly connected to the jacks.
- Try adjusting the sharpness function to improve weak signals. Go to page 36 for more instructions.

### There is no sound, but the picture is fine.

- The sound might be muted. Try pressing the volume up button to restore sound.
- If using DVI, 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 37 for more information.
- If your audio source has only one jack or is a (mono) audio source, make sure you have plugged the connection into the L AUDIO INPUT jack on the TV.

**The screen is blank.**

- Check your connections. If you used yellow, red, and white cables to connect, make sure they're connected to the yellow, red, and white VIDEO INPUT jacks on the side or back of the TV, not to the VIDEO OUTPUT jacks on the back of the TV.
- If you're trying to watch something that's playing on a component connected to the TV (like a DVD), press INPUT until you get to the correct video input channel.
- Make sure the component connected to the TV is turned on.
- Try another channel.

**The buttons on the side panel don't work.**

- The side panel controls may be locked (disabled). Use the remote control to unlock the side panel controls by selecting the *Block Buttons* feature in the Parental Control Menu and press OK to uncheck the box.
- Unplug the TV for 10 minutes and then plug it back in. Turn the TV on and try again.

**The TV turns off unexpectedly.**

- The Sleep Timer may have been activated. Go to page 39 for instructions.
- The electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn the TV on again. If this happens frequently, the voltage in your house may be abnormally high or low.
- Unplug. Wait 10 minutes. Plug in again.

**You can't select a certain channel.**

- The channel may be blocked or not approved in the Parental Control 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.

**The stereo reception is noisy.**

- It may be a weak station. Use the Sound Menu and Sound Type to choose mono.

**A black box appears on the screen.**

- Closed captioning might be on. Check *Closed Caption* in the Setup menu. Go to page 38 for more instructions.

### **You are having problems with the HDMI Connection.**

- Make sure the HDMI or DVI component is turned on and the cables are firmly connected. If problems still occur, turn off your component and reconnect it. Reset the power by unplugging the power cord and plugging it back in.
- If you are tuned to the HDMI 1 or HDMI 2 INPUT and you're receiving *Unusable Signal* message onscreen, press the INFO button on the remote. If *Acquiring Channel* appears in the Channel Banner, the HDMI or DVI device isn't responding. Contact the manufacturer of the HDMI or DVI device for further assistance.
- If you tune to the HDMI 1 or HDMI 2 INPUT and you see snow, the video goes in and out, or the video takes a long time to appear, your HDMI or DVI component 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 if they are available or contact the manufacturer of the HDMI or DVI component for further assistance.
- If you have black bars on each side of your picture, the component 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 HDMI2/DVI or HDMI1 INPUT

### **The remote control doesn't work.**

- Something might be between the remote and the remote light sensor on the front of the TV. Make sure there is a clear path.
- The remote may not be aimed directly at the TV.
- The batteries in the remote may be weak, dead, or installed incorrectly. Put new batteries in the remote. (Note: If you remove the batteries, you may have to reprogram the remote to operate other component.)

### **You are experiencing problems with V-Chip/Parental Controls.**

- If the rating limits don't work, you must lock the settings. Go to the Main Menu (press MENU on your remote), select *Parental Control*, select *Lock Parental Control*.

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

- If you forget your password, turn the TV off. Simultaneously press and hold VOL UP on the side panel and CANCEL on the remote for 10 seconds. Next time you enter the Parental Control Menu, enter a new password.

### **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 NR to View Separately in order to view movies with an NR rating.

### **What Else Can I Do?**

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 or power strip. Keep your TV unplugged for about 5 minutes. Then plug in the TV and turn it on. See if the problem is fixed. If the problem remains, then please click on the Customer Support Menu at [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*.

# 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 (Parental 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 ages 2-6. It is not expected to frighten younger children.

## Canadian English V-Chip Rating System

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

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

**13+ (Viewer 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+ (Viewer 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.

# TTE Technology, Inc. (“TTE”) Limited Warranty

## All LCD Models

**EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, THIS WARRANTY DOES NOT COVER, AND AS DESCRIBED BELOW TTE EXPRESSLY DISCLAIMS, ALL ACTUAL AND IMPLIED WARRANTIES WITH RESPECT TO ANY PRODUCT USED FOR INSTITUTIONAL OR OTHER COMMERCIAL PURPOSES (INCLUDING BUT NOT LIMITED TO RENTAL PURPOSES).**

**What your warranty covers:** Defects in materials or workmanship to the original owner

### New LCD Televisions - Screen Sizes 32” and smaller:

#### For how long after your purchase:

- Ninety (90) days from date of purchase for labor charges. After ninety (90) days, labor charges will be at owner expense.
- One (1) year from date of purchase for parts.

#### What we will do:

- At TTE’s discretion, pay an Authorized RCA Service Center for both labor charges and parts to repair your television, or replace your television with a new or refurbished/remanufactured unit. See “How to get service”

### New LCD Televisions - screen sizes 33” through 47”:

#### For how long after your purchase:

- One (1) year from the date of purchase for labor charges.
- One (1) year from the date of purchase for parts.
- What we will do:
- At TTE’s discretion, pay an Authorized RCA Service Center for labor charges and parts to repair your television, or replace your television with a new or refurbished/remanufactured unit. See “How to get service”

### All Remanufactured/Refurbished LCD Televisions:

#### For how long after your purchase:

- Ninety (90) days from date of purchase for labor charges.
- Ninety (90) days from date of purchase for parts.

#### What we will do:

- At TTE’s discretion, pay an Authorized RCA Service Center for both labor charges and parts to repair your television, or replace your television with a refurbished/remanufactured unit. See “How to get service”

#### How to get service:

- Call 1-800-951-9582. Please have your unit’s date of purchase and model/serial number ready. The model/serial number information can be found on the back of your unit.
- A representative will troubleshoot your problem over the phone.
- If it is determined that your unit requires service, the service location will be at the sole discretion of TTE based upon the TTE Limited Warranty statement.
- At the sole discretion of TTE, television screen sizes 32” and smaller is either consumer carry-in to an Authorized RCA Service Center or directly exchanged for a new or refurbished/remanufactured unit.
- At the sole discretion of TTE, television screen sizes 33” through 47” is either consumer carry-in to an Authorized RCA Service Center or directly exchanged for a new or refurbished/remanufacture unit.
- Proof of purchase in the form of a bill of sale or receipted invoice from an Authorized Dealer which is evidence that the product is within the warranty period must be presented to obtain warranty service.

**What your warranty does not cover:**

- Customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer.)
- Installation and related adjustments.
- Damage resulting from non-approved installation methods.
- Signal reception problems not caused by your unit.
- Damage from misuse or neglect.
- Batteries.
- A television that has been modified or incorporated into other products or is used for institutional or other commercial purposes (including but not limited to rental purposes).
- A unit purchased or serviced outside the U.S.A.
- Acts of nature, such as but not limited to lightning damage.
- Special, incidental or consequential damages.

**Product Registration:**

Please complete and mail the Product Registration Card packed with your unit 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 this 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 unit 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.**

# TTE Technology Canada Ltd. (“TTE”) Limited Warranty

**EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, THIS WARRANTY DOES NOT COVER, AND AS DESCRIBED BELOW TTE EXPRESSLY DISCLAIMS, ALL ACTUAL AND IMPLIED WARRANTIES AND CONDITIONS WITH RESPECT TO ANY PRODUCT USED FOR INSTITUTIONAL OR OTHER COMMERCIAL PURPOSES (INCLUDING BUT NOT LIMITED TO RENTAL PURPOSES).**

## **What your warranty covers:**

- Defects in materials or workmanship to the original purchaser.

## **For how long after purchase:**

- All RCA televisions: One year parts and labour.
- All RCA Scenium televisions: Two years parts and labour.

## **What TTE Technology Canada Ltd. will do:**

- At TTE’s discretion, pay an Authorized RCA Service Centre for both labor charges and parts to repair your television, or replace your television with a new or refurbished/remanufactured unit.
- See “How to get service”

## **How to get service:**

- Call 1-866-465-7157 (French: 1-800-522-0445). Please have your unit’s date of purchase and model/serial number ready. The model/serial number information can be found on the back of your unit.
- A representative will troubleshoot your problem over the phone.
- If it is determined that your unit requires service, the service location will be at the sole discretion of TTE based upon the TTE Limited Warranty statement.
- At the sole discretion of TTE, RCA CRT DV televisions are either consumer carry-in to an Authorized RCA Service Centre or directly exchanged for a new or refurbished/remanufactured unit.
- At the sole discretion of TTE, RCA LCD televisions are either consumer carry-in to an Authorized RCA Service Centre, directly exchanged for a new or refurbished/remanufacture unit or provided in-home service.
- At the sole discretion of TTE, RCA Scenium LCD televisions are either consumer carry-in to an Authorized RCA Service Centre, directly exchanged for a new or refurbished/remanufacture unit or provided in-home service.
- Proof of purchase in the form of an original bill of sale or receipted invoice from an Authorized Dealer which is evidence that the product is within the warranty period must be presented to obtain warranty service.

**Your warranty does not cover damages which are caused by:**

- Fire, accident, lightening, flood and/or other acts of God;
- Faulty installation, set-up adjustments, improper antenna, inadequate signal reception, adjustment of consumer controls and/or improper maintenance; and/or
- Failure which results from misuse, abuse, neglect, mishandling, misapplication, and/or alteration.

**What your warranty does not cover:**

- Customer instruction (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer);
- Transportation cost to and from the Service Centre (Unless you have made other arrangements with your dealer at the time of purchase whereby he undertakes this responsibility);
- Installation and set-up service adjustments;
- Products connected otherwise than as outlined in the Owner's Manual;
- Products on which the serial number has been altered or removed;
- External antenna or cable systems;
- Remote control batteries;
- A television that has been modified or incorporated into other products or is used for institutional or other commercial purposes (including but not limited to rental purposes);
- A unit purchased or serviced outside Canada;
- Special, incidental or consequential damages; and/or
- Normal wear or cosmetic damage.

**How Provincial law relates to this warranty:**

- This warranty gives you specific legal rights, which are in addition to statutory warranties, which may vary from Province to Province and which take precedence over the terms of this warranty.

**If you purchased your unit outside of Canada:**

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

**©2008 TTE Technology Canada Ltd.**

**6605 Hurontario Street, Mississauga, Ontario L5T 0A3**

## 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, shock hazard or damage to the TV.**





ENERGY STAR® and the ENERGY STAR mark are registered U.S. marks manufactured under license from Dolby Laboratories.

“Dolby” and the double-D symbol are registered trademarks of Dolby Laboratories.

SRS and (●) are trademarks of SRS Labs, Inc.

### **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)**

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 Street  
Indianapolis, IN 46290**

**© 2008 TTE Technology Inc.**

**RCA and associated marks are trademarks of THOMSON S.A.  
used under license to TTE Corporation.**

**Printed in USA**

**Part No.: 72-RS86A1-E001A**