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RECORD YOUR MODEL NUMBER

The model and serial number of your new TV are located on the back of the TV cabinet. For your future convenience, we suggest that you record these numbers here:

MODEL NO. _____

SERIAL NO. _____

**WARNING**RISK OF ELECTRIC SHOCK
DO NOT OPEN**WARNING:**

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



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



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

WARNING:

To prevent fire or shock hazards, do not expose this product to rain or moisture.

POWER CORD POLARIZATION:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

NOTE TO CABLE/TV INSTALLER:

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

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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.

CAUTION:

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

Hookup Directory

This page will help you hook up your Entertainment Machine properly.

IMPORTANT!! Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.

GENERAL HOOKUP INFORMATION

About your Jacks For general information about the jacks on your Entertainment Machine, go to pages 4

INPUT HOOKUP OPTIONS

Antenna/Cable If you are using an antenna or have direct cable service, go to page 5

VCR If you are using a VCR, go to page 6

Super VHS Player If you are using a Super VHS Player, go to page 7

AUDIO EQUIPMENT OPTIONS

Speaker Placement For general speaker placement advice, go to page 8

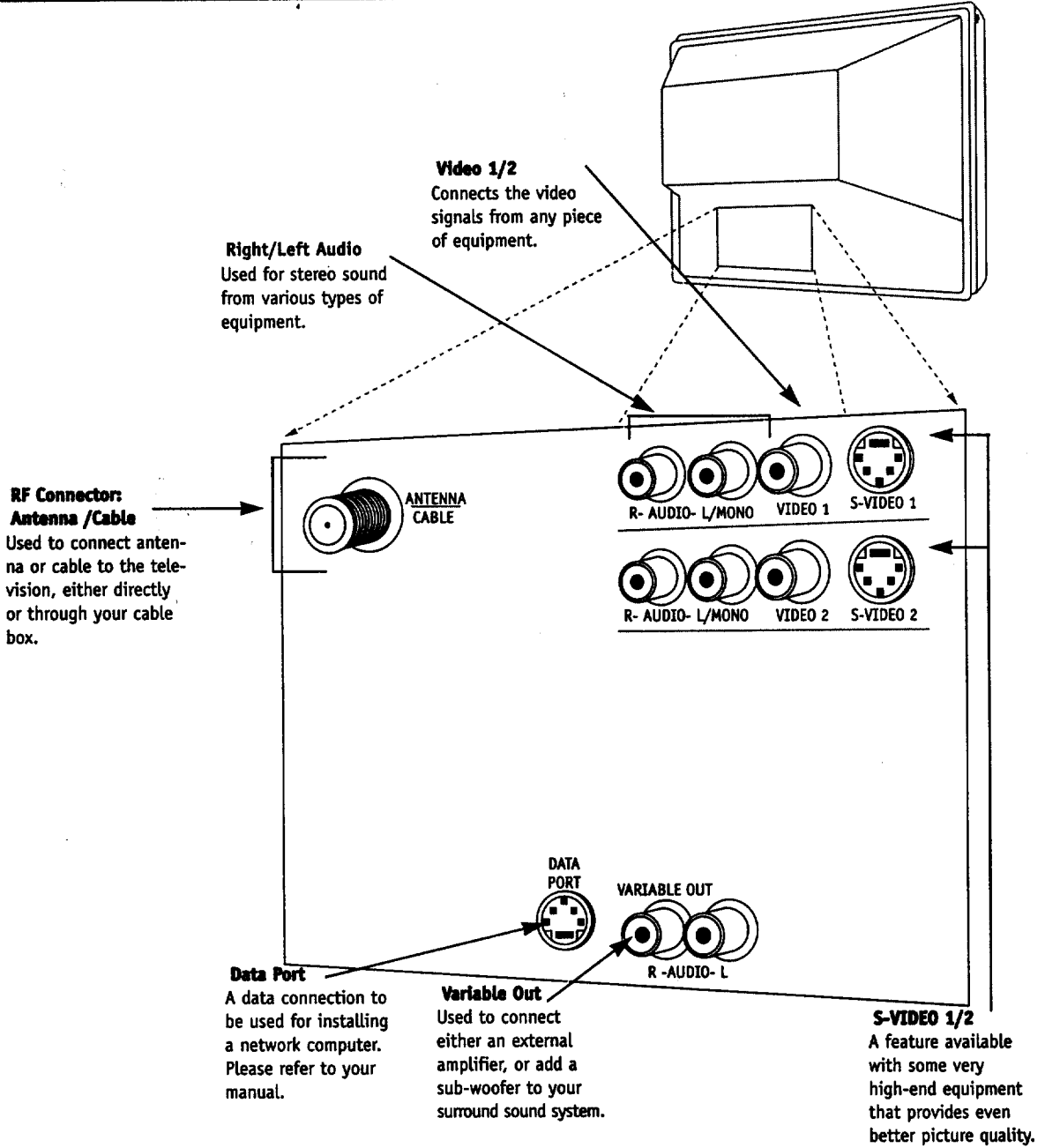
External Stereo To hook up your entertainment machine to an external stereo, go to page 8



For a complete Index, see page 46-47.

Audio Video Jacks

Your jack-pack and its various uses.



- JACK** A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jack and the Audio/Video jacks that are color-coded.
- SIGNAL** Picture and sound traveling through cable, or on the air, to your television screen.

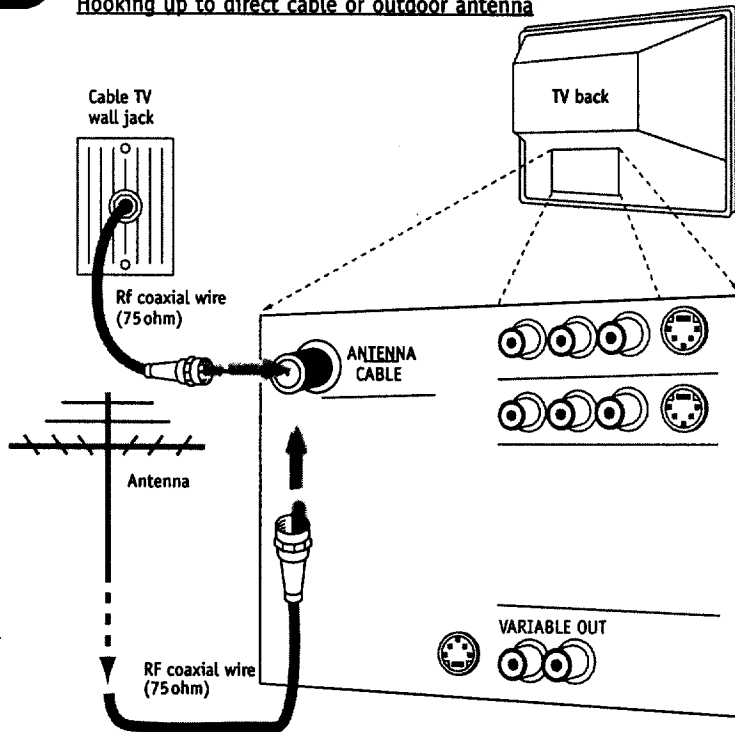
Hook Up Direct Cable TV or Antenna


Hooking up to direct cable or outdoor antenna

Connecting cable to your Entertainment Machine.

Hooking up to Direct Cable and Antenna

- 1** Locate the Antenna/Cable jack on the back of your Entertainment Machine.
- 2** Connect the cable that runs from the wall or from your outdoor antenna directly to this jack.



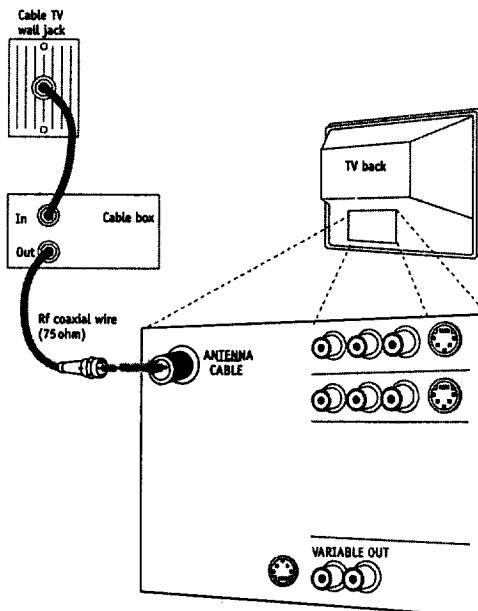
 *If you receive antenna through a wire that is several years old and connects with two small prongs, you will need to purchase a 300 Ohm adapter. It should be available from your local electronics dealer.*

Hooking up to your Cable Box

Some cable services require the use of a cable box to decode premium channels and pay-per-view. Using the programming feature of your remote, you can connect your cable box so that you only need your MBR Trakball remote to control all the channels.

Hooking up to direct cable with a cable box

- 1** Locate the input jack on the back of your cable provider's decoder box.
- 2** Connect the cable that runs from the wall to this jack.
- 3** Locate the output jack on the back of your cable provider's decoder box. Connect a cable to this jack.
- 4** Locate the Antenna /Cable jack on the back of your Entertainment Machine. Connect the other end of the cable that runs from the decoder box to this jack.



Hook Up Your VCR and Cable

Connecting a VCR to your Entertainment Machine.

1

Locate the RF or VHF/UHF/CATV In jack on the back of your VCR. Connect the cable line coming from your wall directly to this jack.

2

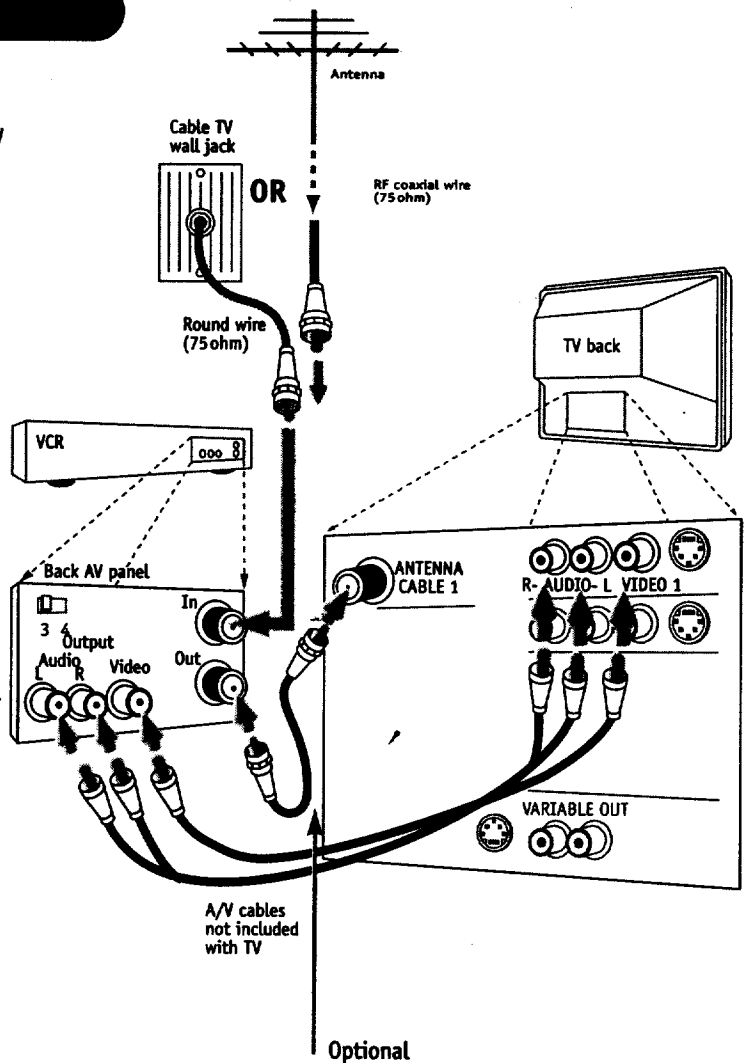
Find the composite video and audio jacks on the back of your VCR, and connect them following the instructions provided with your equipment.



To use with PIP: go to the source menu (see page 17) and choose the jack that you've connected your VCR to (Video 1) as the Main or PIP source.



If you want to receive your signals on channel 3 or 4, locate the Out to TV jack. Connect a cable from that jack to the Antenna/Cable jack on the back of your Entertainment Machine.



Hook Up Your Super VHS VCR Player

1

Locate the VHF In jack on the back of your DVD or S-VHS VCR. Connect the cable line coming from your wall directly to this jack.

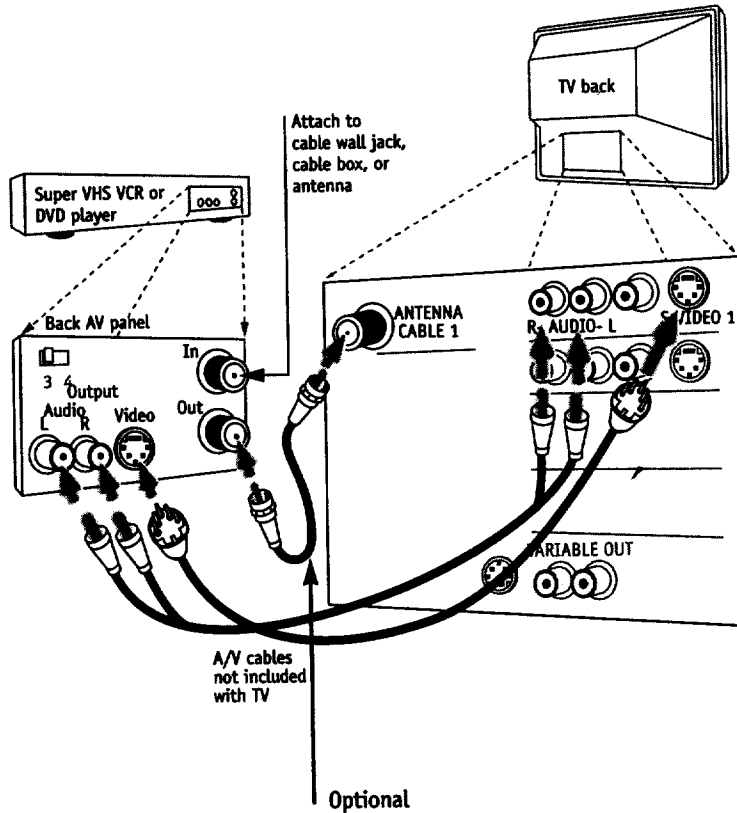
2

Now locate the Out to TV jack. Connect a cable from the Out to TV jack to the Antenna 1/Cable 1 jack on the back of your TV.

3

Find the audio and S-Video jacks on the back of your DVD or S-VHS player, and connect them following the instructions provided with your equipment.

Connecting a DVD player or S-VHS player to your Entertainment Machine.



For several pieces of equipment, edit the names under Source ID so you don't forget which is which. See page 25.



To use with PIP: go to the Source Menu (page 17) and choose the jack you've connected your S-VHS or DVD player (Video 1-3, DVD) as the Main or PIP source.

COMPONENT VIDEO

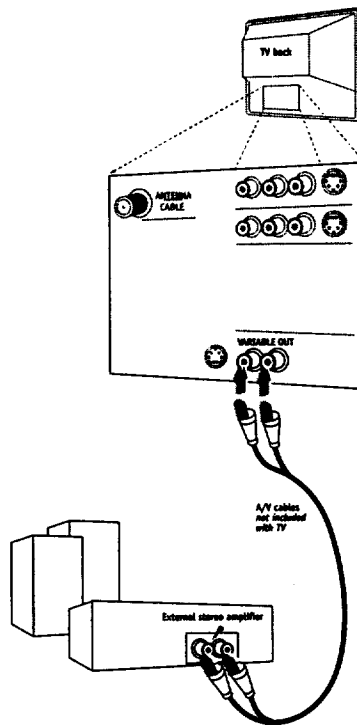
Some video equipment uses three separate lines (Y, R-Y, B-Y) to more precisely reproduce images. Your manual will explain how this relates to your equipment.

External Stereo and Home Theatre

Combine your new Entertainment Machine with your home stereo system.

You'll want to make sure your Entertainment Machine and stereo are located where you want them. Moving connected equipment can be dangerous for you and for it.

- 1** Locate the Variable Out jacks on the back of your TV, and the Input jacks on the back of your stereo's amplifier.
- 2** Connect the two jacks, making sure that the right and left channels are placed correctly.
- 3** Set up your speakers through your stereo, according to those directions.



This is just a general room design. Any number of set-ups are possible, and some changes may be needed to maximize your sound.

A left and right speaker on either side of the Entertainment Machine will create a "center channel," making the dialog sound as though it's coming directly from the Entertainment Machine. The rear surround sound speakers provide the majority of other sounds, like those from special effects in movies. Your sub-woofer generates ultra-low frequency sound, for rumbling low-end audio.



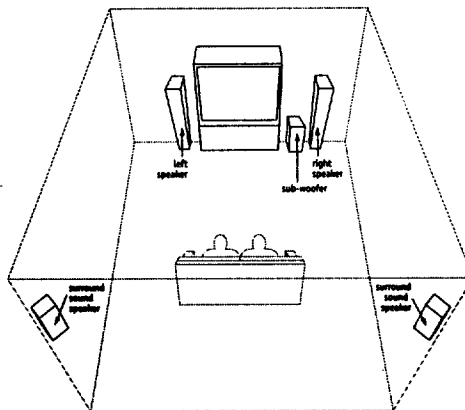
Sound is affected by speaker placement, so make sure nothing is in front of the speakers, and that they are aimed in appropriate directions.



If your surround sound system is on, but there's no sound from the speakers, the program you're watching might not be broadcast in surround sound.



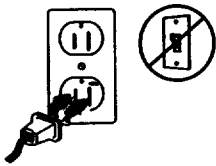
You can adjust the volume level on your external stereo system even if your remote is in TV mode. See Amplifier Volume Override on page 37.



Quick Start

Powering the remote and have your Entertainment Machine find and save all available channels.

1 Use pages 5-8 to hook up your Entertainment Machine. Plug your Entertainment Machine into a 120 V, 60 Hz AC outlet and press the Power button on the front panel. The Quick Start screen will instantly appear, with three steps you should follow if you have not yet done so.



2 Remove the back of the remote and put in two AAA batteries. Make sure batteries are properly installed (check the +/- signs).



3 Click ENTER on your remote to continue the setup process.

4 Your choice will be to pick 1 or 2 (Antenna or Cable), depending on the type of input signal you have.

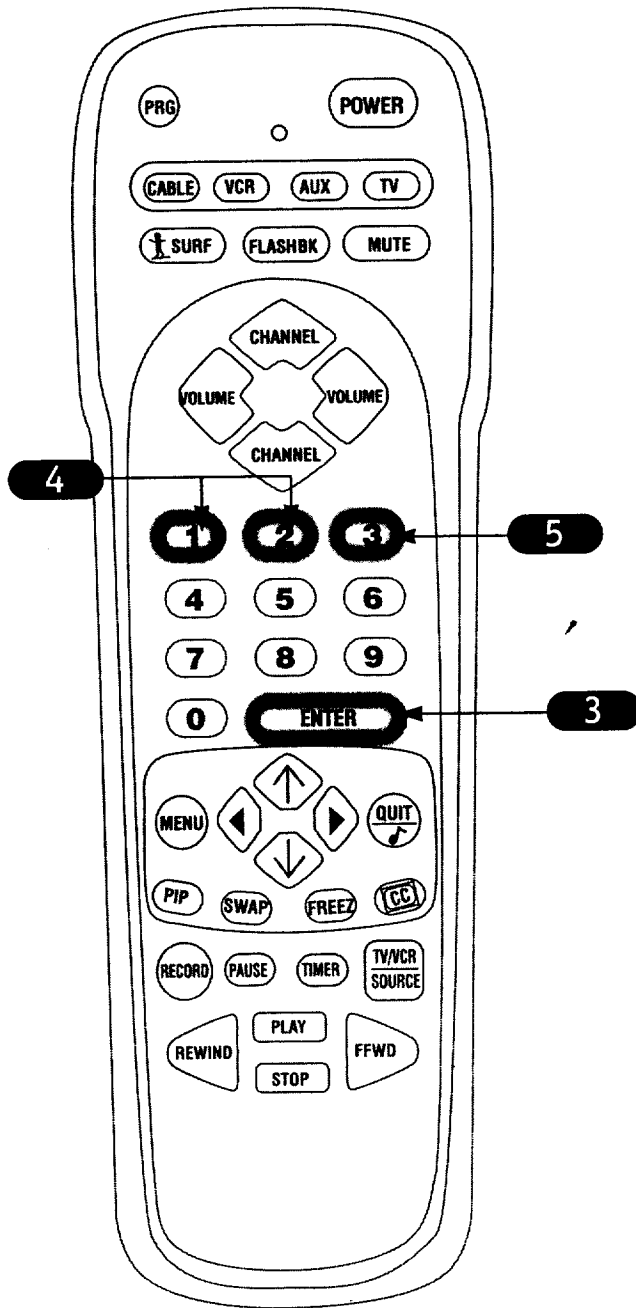
5 You will then be prompted to press 3 on your number pad. Your Entertainment Machine will now search for all available channels, and store them in its memory.



The Quick Start menu appears the first time you turn on your Entertainment Machine, allowing you to get this out of the way before going on to other options.



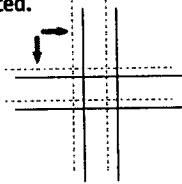
If you change your input signal, you will need to run Channel Search (on the Setup Menu) to search for all available channels and store them into memory.



Projo Setup: Convergence

Adjust the color alignment to make your picture the sharpest it can be.

- 1** Press the MENU key repeatedly until the Setup menu appears.
- 2** Using the UP/DOWN arrows, select Projo Setup on your screen.
- 3** Press a RIGHT/LEFT arrow key to enter the Convergence screen. You will see two intersecting lines. If the lines are perfectly white, your colors are fine. If you can see either blue or red lines, then one of those two colors needs to be adjusted.



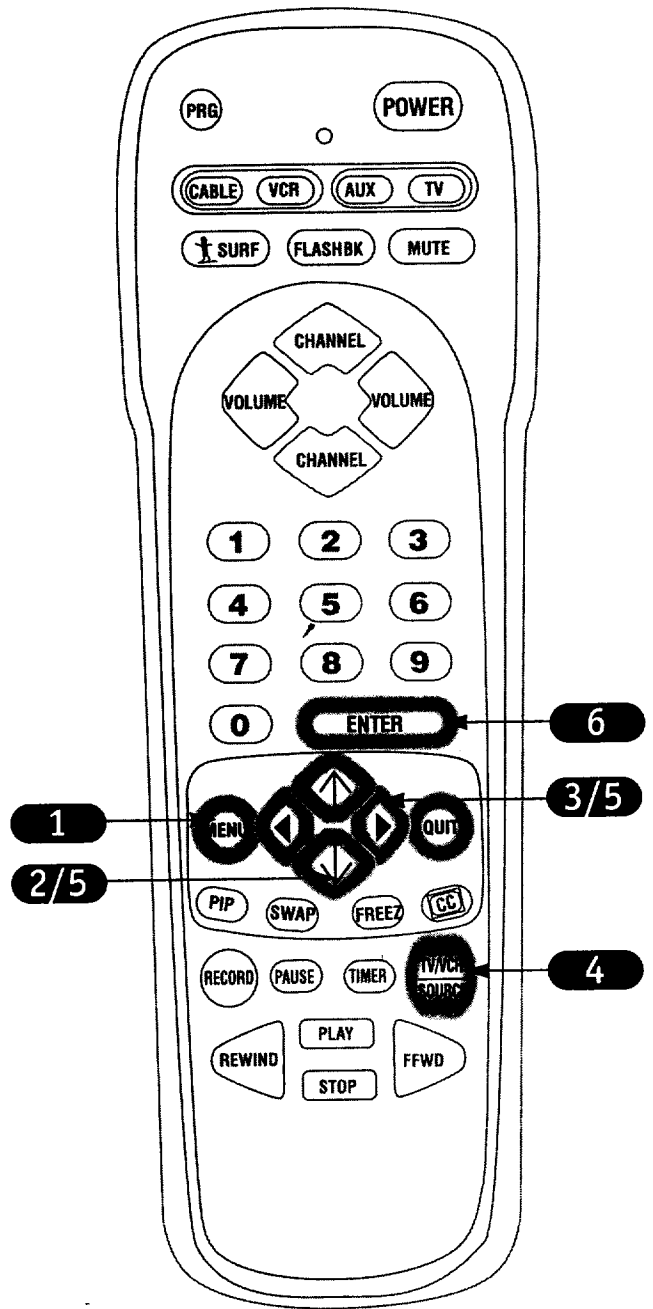
- 4** Press the SOURCE key to choose which color you want to adjust: Red or Blue.
- 5** Using the UP/DOWN and RIGHT/LEFT arrows on the remote, adjust the colors on the screen so the lines match and are completely white.
- 6** Press ENTER or QUIT to return to TV viewing.



Odd colored "shadows" around faces and in the menus may mean that the convergence is off.



If the lines never match up, no matter what you try, give Zenith's Projection TV help line a call at 1-800-365-1690.

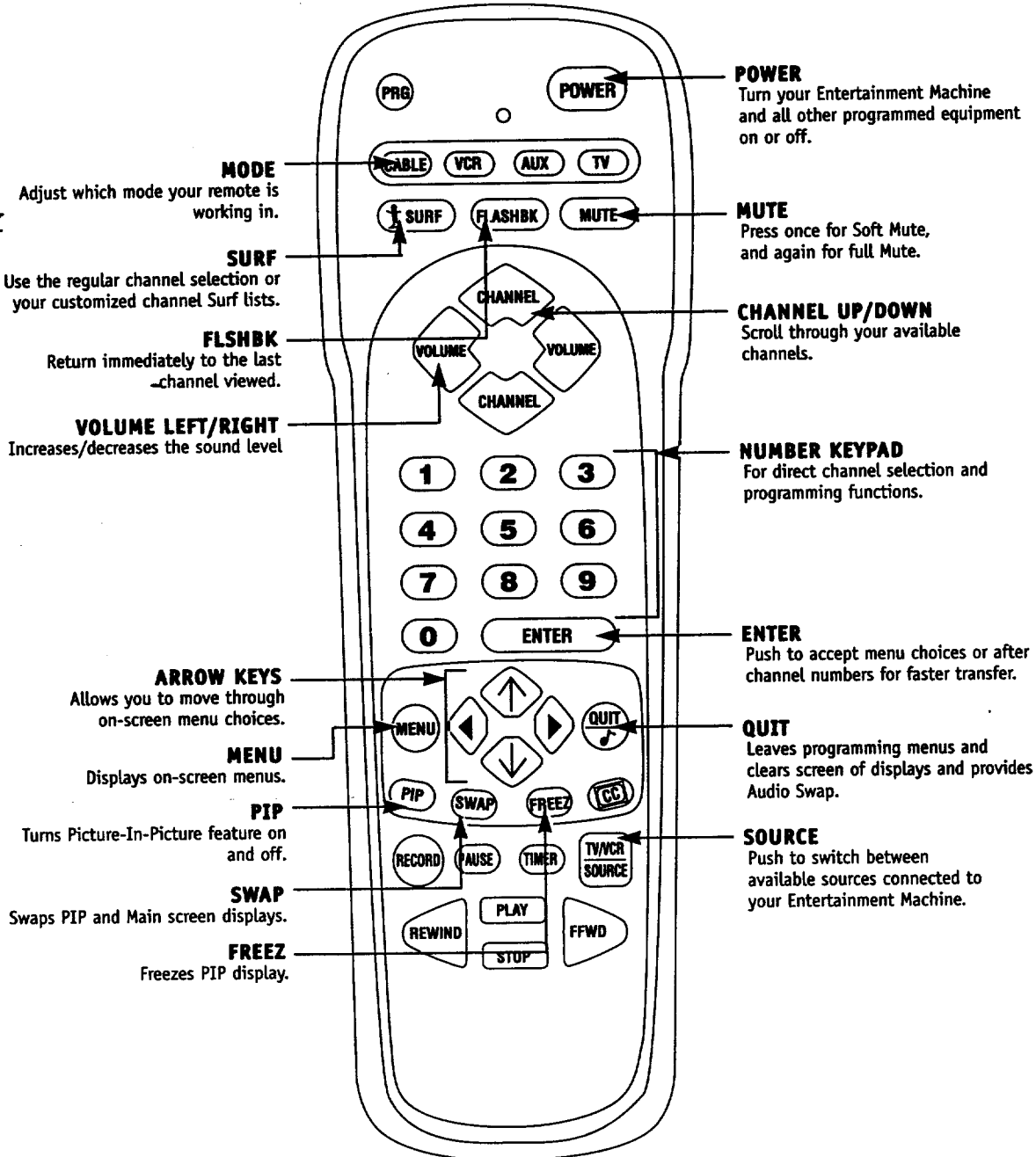


CONVERGENCE

This option lets you correct for color separation in your picture.

Button Functions on Your Remote

All the buttons on your remote, and what they do.



Remote Control Part Number
MBR 3457

MODE The device that the remote control is currently controlling (TV, VCR, DVD, etc.) is its "mode."

Introducing you to the basics of your Entertainment Machine

Basic TV Operation

Source

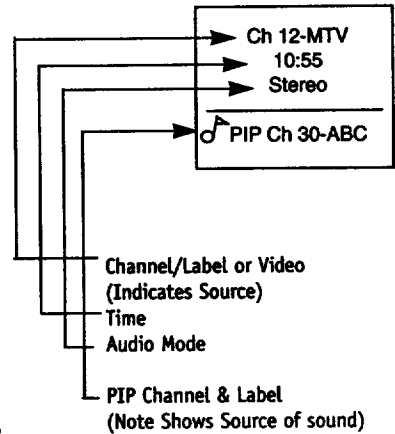
The source button (TV/VCR/Source) on the remote switches between Video input and Cable/Antenna input. The Channel/Time display will read "Video" in place of a channel number if A/V inputs are selected as the picture source.

Cable/Antenna Input: This setting allows you to change cable or antenna channels and view videocassettes on channel 3 (or 4) in mono sound.

Video Input: This setting allows stereo playback of videocassettes. The television cannot change channels in the Video mode, but the VCR can.



To view the current input source, press ENTER on your remote. The Channel/Time display should appear in the upper right-hand corner of the screen. If the display reads "Video," then the source is an A/V input. If the display reads a channel number, then the source is your Cable or Antenna.

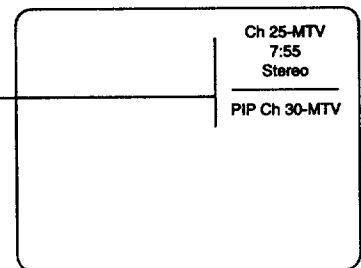


XDS Data Feature

XDS - Extended Data Service

Some broadcasters are including on the signal they provide additional information (data) about the program. This data (see example) appears on your TV screen when you press ENTER; if the channel has XDS.

Channel/Time/Audio Display
(shown with PIP display, if PIP is on)



Example of an XDS Data Display

Showing XDS Data

Select a channel. Press ENTER to display XDS data; if available.

XDS Channel Labels

XDS can provide a channel label automatically. For the programs to display an XDS channel label, select the dashes (- - -) for that channel from the Channel ID option in the Setup Menu.



At this time, XDS data is being provided by public broadcasting stations; and as a result, is only available on some channels.



You must set the Clock in the Setup Menu before the time will appear on the Channel/Time Display or on the XDS display.

Basic TV Operation (cont'd)

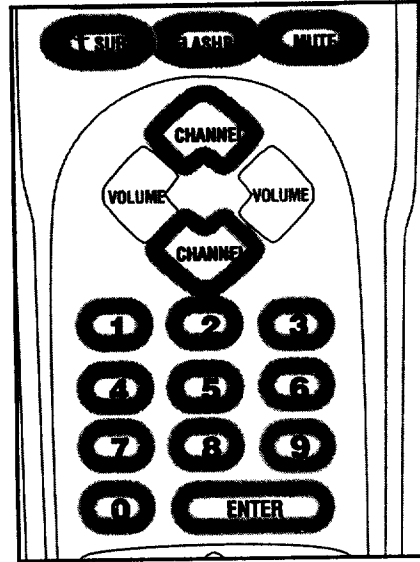
Changing Channels

CHANNEL UP/DOWN arrows: Use these arrows to change the channels. Channel Search in will have found all channels available to you.

NUMBER Key Pad: To skip to any channel, enter the number of the channel using the NUMBER key pad on your remote, then press ENTER.

FLASHBK: To instantly return to the last channel viewed, press FLASHBK on your remote.

SURF: Switches between the primary channel selection and your customized surf channel-selections. The surf mode icon will appear in the lower right corner of the screen when you change channels. Press SURF to turn on up to four unique Surf Channel listings (see page 18).



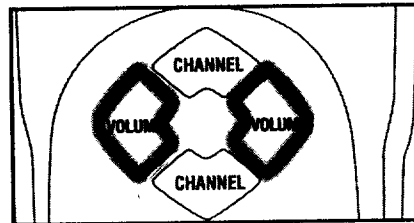
Introducing you to the basics of your Entertainment Machine



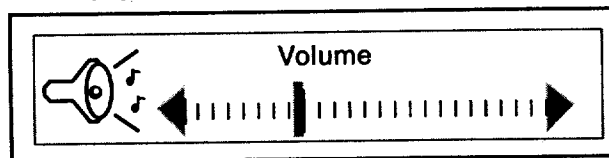
This is while the source is set to Antenna/Cable. For any other source, such as a VCR, the Main Picture channel changing will be controlled by that equipment.

Audio

VOLUME RIGHT/LEFT: To adjust the volume level, use the volume Right/Left arrows on your remote. To silence your TV instantly, press MUTE once to soften the volume, press again to turn sound off. To get the sound back, press MUTE again.



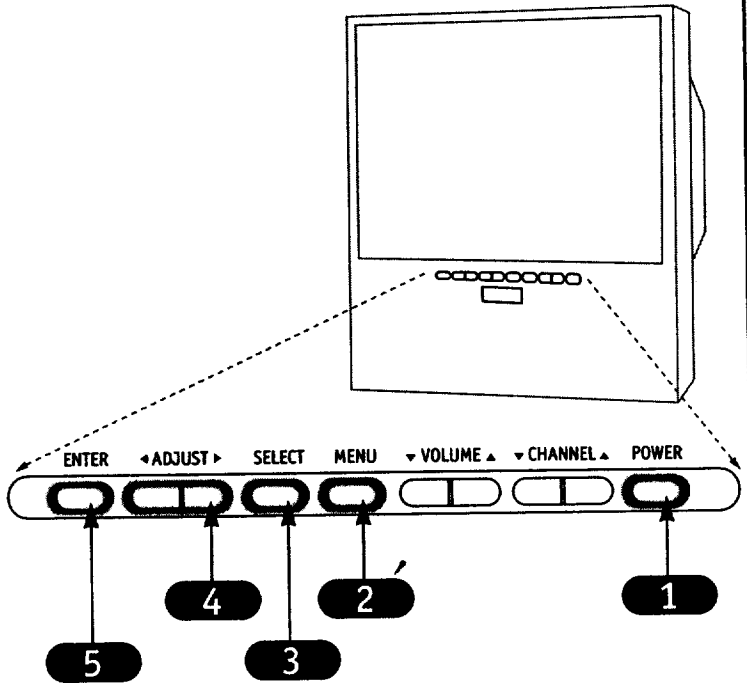
Volume display



Front Panel

Using the ten-button front panel to operate the menus.

- 1** Press POWER on the control panel to turn on your Entertainment Machine.
- 2** To access the menus, push the MENU button on the control panel. Cycle through the various menus by pushing the button repeatedly.
- 3** Press the SELECT button repeatedly to highlight the option you want to modify.
- 4** Press either Right or Left on the ADJUST button to modify the option you have chosen.
- 5** Push the ENTER button to return to normal TV viewing.



Refer to the various pages on how to use the on-screen menus using your remote.



The CHANNEL and VOLUME buttons work just as they do on your remote control.



Lost the remote? Call Zenith at 1-800-255-6790 to ask about purchasing a new one. Any other brand besides Zenith will not perform all of the possible functions on your TV.

On-Screen Menus

Descriptions
of all the
menus on your
Entertainment
Machine.

Using the Menu button on your remote you can access all the menus below.

Menu Name	Go to page
SOURCE MENU Choose from the available sources for both the main picture and PIP.	17
SETUP MENU Adjust the basic characteristics of your Entertainment Machine.	9-10, 18-21
Add/Del/Surf Manually pick and choose which active channels will appear when flipping through using Channel Up/Down	18
Clock Set Set the time yourself, or program your clock to automatically detect the time, and to adjust to Daylight Savings when you program in your time zone.	19
Captions Turn closed captioning on, off, or set it to come on automatically when the television is muted.	20
Captions/Text Choose the captioning or text method for your Entertainment Machine.	20
Language Pick the language you want your on-screen menus to appear in.	21
Background Turns the background for on-screen menus transparent or opaque.	21
Projo Setup Allows you to adjust the color convergence of your Entertainment Machine.	10
SPECIAL FEATURES Go beyond basics and customize your Entertainment Machine's functions.	22-28
Timer Setup Program a time for your Entertainment Machine to turn itself on or off, or to turn itself off after a certain amount of time.	22-23
Channel Labels Label your channels with their network names (ABC, CBS, HBO, etc.).	24
Source ID Customize the names of your sources by either selecting a label or making your own.	25
Surf ID Design a custom channel surf selection for up to four people, and put their names on them.	26
Parental Control Allows parents to block any channel for up to 99 hours, with the use of a password.	27
Auto Demo Your Entertainment Machine will show you what it's capable of by running through many of its options and menus automatically.	28
AUDIO MENU Customize the sound to suit your room and your taste. Your options are: Bass, Treble, Balance, Audio Mode, SoundRite, Front Surround, and Speakers.	29

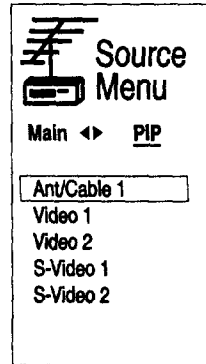
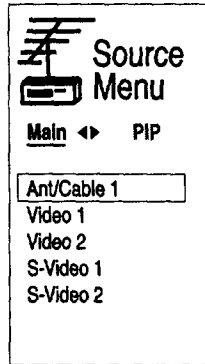
On-Screen Menus Overview, cont'd

Descriptions
of all the
menus on your
Entertainment
Machine.

Menu Name (cont'd)	Go to page
VIDEO MENU Adjust your picture for any viewing situation. Your options are: Contrast, Brightness, Color, Tint, Sharpness, Color Temp, Video Filter, Skin Tone, Video Preset.	30
PIP MENU Control the size and appearance of the PIP inset. Your options are: Contrast, Tint, Size.	32
Channel/ Time Display Shows the current time, channel, video and audio source, and the Surf status.	12
Volume Display Shows the current sound level.	13

Source Menu

This menu is where you switch input source devices so you can watch your antenna, cable TV, VCR, DVD, or anything else that you have hooked up to your Entertainment Machine. Regular antenna or cable will come through Ant/Cable 1. All other devices will correspond to the names of the jacks to which they're connected.



Choose the sources for your main picture, and PIP.

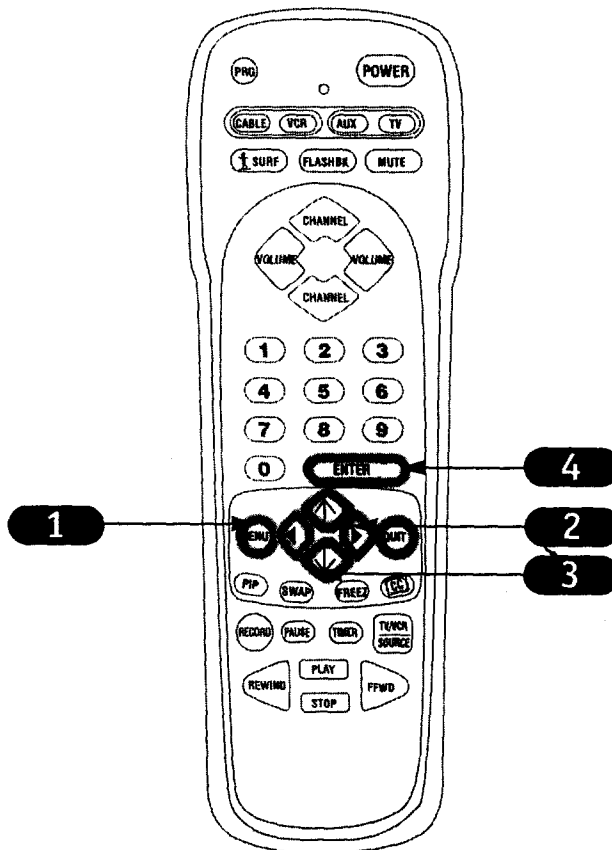
- 1 Press the MENU button repeatedly until the Source Menu appears on your screen.
- 2 Using the LEFT/RIGHT arrows, choose to set the source for Main or PIP. "Main" is for the regular picture and "PIP" is for the Picture-In-Picture feature.
- 3 Press the UP/DOWN arrows to select the entry that describes what source you're using to receive a signal. The names will correspond to the jacks on the back of your TV. If you connected a VCR to the Video 1 jacks, then select Video 1 to watch that VCR. You can change the names for your Sources using the source ID feature. To change the name of the labels, see page 25.
- 4 Press ENTER or QUIT to return to regular TV viewing, or repeat from step 2 to set the source for the PIP.



You can watch home movies and still scan for the big game.



The TV/VCR/SOURCE key can also be used to bring up the Source Menu.

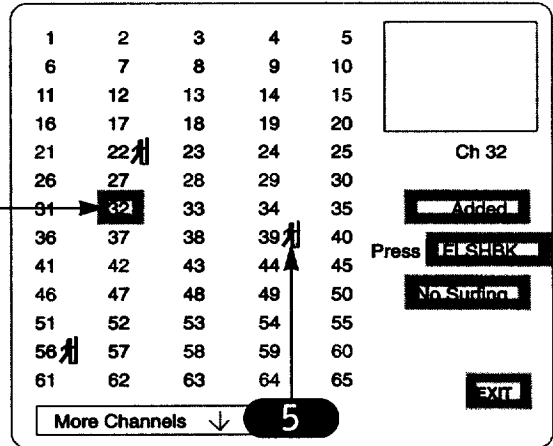


SOURCE The term for the equipment that provides audio and video information to your Entertainment Machine. VCR, DVD players, or Cable Boxes are examples of sources.

Create your own channel selection for cooler surfing.

Add/Del/Surf

- 1** Press the MENU button repeatedly until the Setup Menu appears.
- 2** Using the UP/DOWN arrows, select Add/Del/Surf in the menu. Then press a RIGHT/LEFT arrow to enter the Add/Del/Surf screen. Your blue screen will be filled with channel numbers, the added channels in white and the deleted channels in gray. The channel picture will be in the upper-right corner.
- 3** With the four ARROW buttons, highlight the channel you want to add/delete to your channel list. Press FLSHBK to Add or Delete channels.



- 4** Next, press the SURF button to choose which list you're changing (No Surfing or Surf 1-4). The list name will be on the right, under the inset picture.
- 5** Press the FLSHBK button to cycle through the options (added or surf). Use the arrow keys to move to the next channel. A deleted channel CANNOT be made into a Surf channel.

Note: The status of the channel will appear on the right side of the screen. Also, a Surf channel will have a pink surfer icon next to it, active channels will be in white, and deleted channels will appear in a gray color.

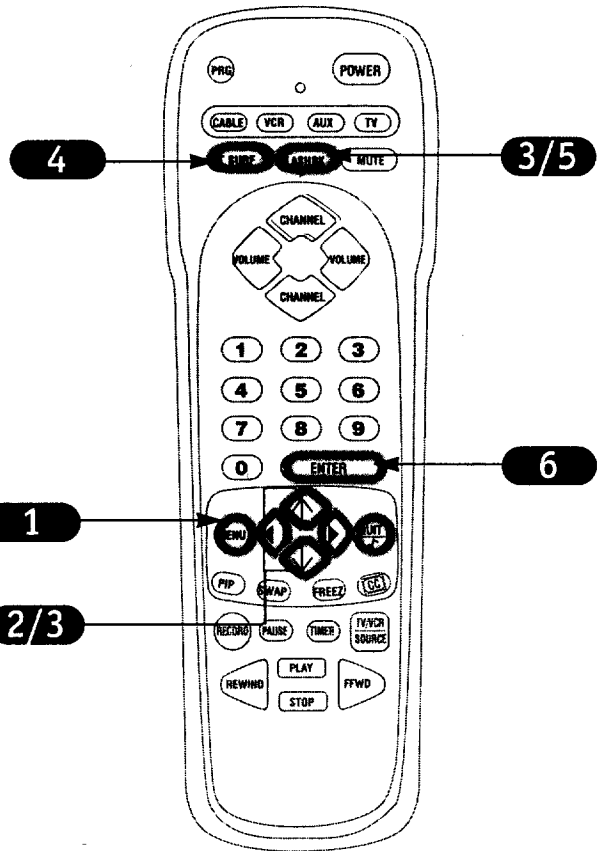
- 6** Press ENTER and QUIT to return to TV viewing.



If the Add/Delete/Surf screen reverts to normal TV viewing, simply press the MENU key and then a RIGHT/LEFT arrow key to get back to the Add/Delete/Surf screen



Instead of "Surf 1" or "Surf 2," customize the name of your program listings. See Surf ID on page 26.



FUNCTIONS

- ADD** This function lets you add new channels to the list that you'll scroll through when using your remote.
- DELETE** This function lets you remove channels that you don't watch from the list you'll scroll through.
- SURF** This function creates a customized list of your favorite channels. You can access this group of channels by pushing the surf button on the remote.

Clock Set

1 Press MENU key repeatedly until the Setup Menu appears.

2 Select Clock Set in the menu using the UP/DOWN keys. Press the LEFT/RIGHT arrow keys to set the clock.

3 Press a LEFT/RIGHT arrow key to choose either Auto or Manual for Clock Mode. Manual will let you set the time yourself while Auto will set it for you while your Entertainment Machine is off.

4 Manual: Choose Manual, then press the DOWN arrow key and you will activate a display where you can set the clock by entering the time using the NUMBER keypad. Use FLSHBK to select AM/PM.

or

5 Auto: Choose Auto, then press the DOWN arrow key to select PBS channel. Use the NUMBER Keypad or cycle through the list using the LEFT/RIGHT arrow keys to enter the PBS channel. Your current channel will change to that station.

6 Turn off your Entertainment Machine for ten seconds to activate the correct time.

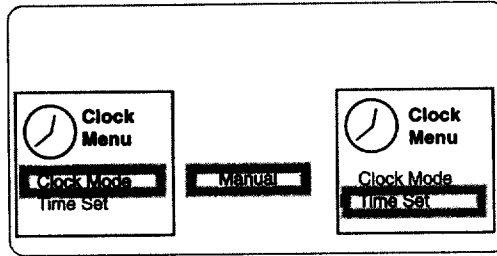


Embedded in the PBS broadcast signal is the information for the correct time and date. Your Entertainment Machine will read that information and automatically display the right time.



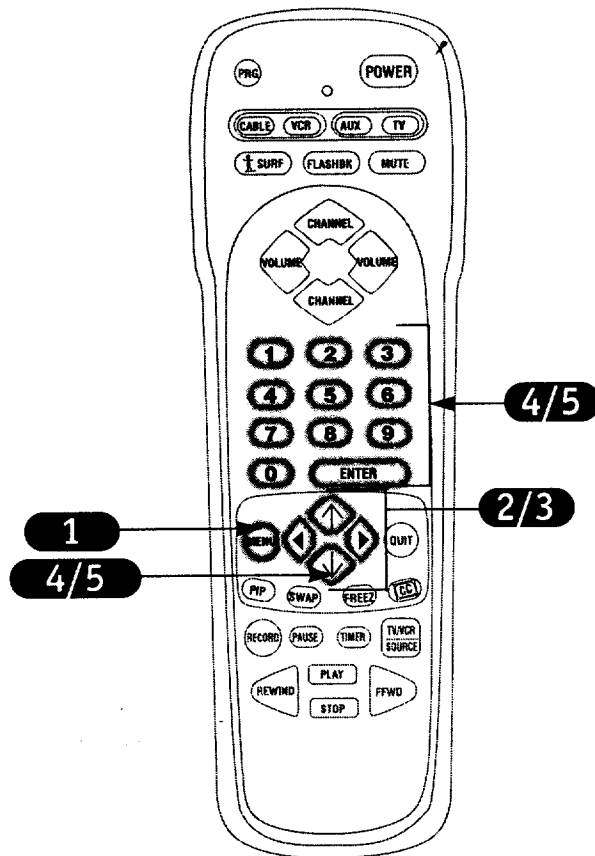
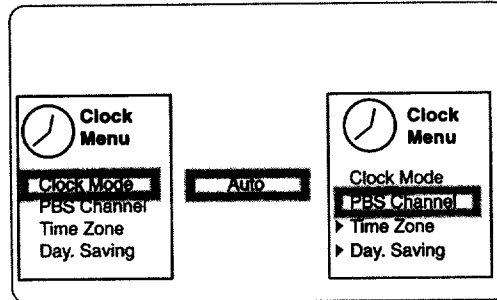
If you follow these steps and your time is still one hour off, check your Time Zone and Daylight Savings Time within your Entertainment Machine to make sure they are properly set.

Manual display



Automatically set the clock and date on your Entertainment Machine.

Auto display



Captions and Caption/Text

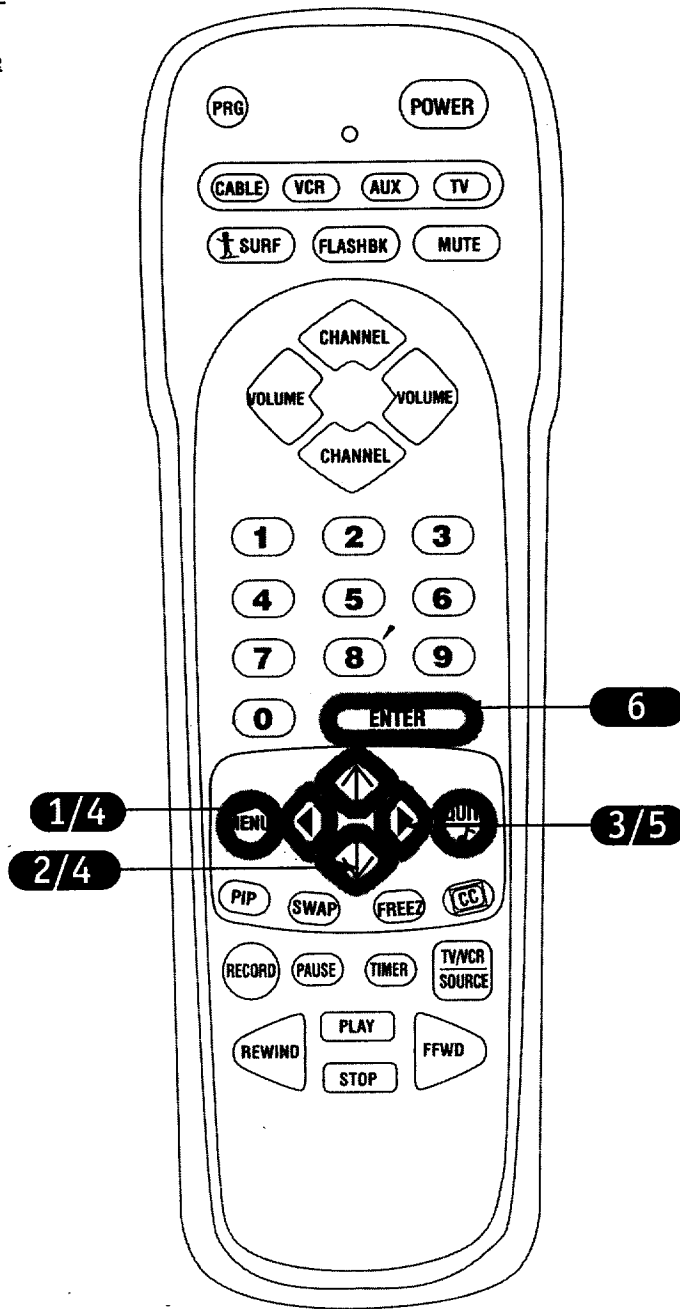
Turn closed captioning or text on, off, or have it appear automatically when muted.

Caption/Text is a feature which allows your Entertainment Machine to receive various closed caption and text options provided by your broadcaster. Availability and functionality of Caption/Text feature is determined only by your broadcaster and may not be available in your area.

- 1** Press the MENU Button until the Setup menu appears on your screen.
- 2** Using the UP/DOWN buttons, select Captions in the menu.
- 3** Use the RIGHT/LEFT arrows to choose whether you want the captions On, Off, or Caption When Muted, which sets captioning to come on automatically when your Entertainment machine is Soft Muted or Muted.
- 4** Press the Down arrow key to select Caption/Text in the menu.
- 5** Using the RIGHT/LEFT arrows, select from Caption 1 through 4 or Text 1 through 4 as the captioning used.
- 6** Press ENTER or QUIT to return to normal viewing.



Choose Caption 1 to view the traditional Closed Captioning.



CAPTIONS/TEXT

A form of subtitling that writes out the dialog for your program.

TEXT

Arbitrary text not related to the program.

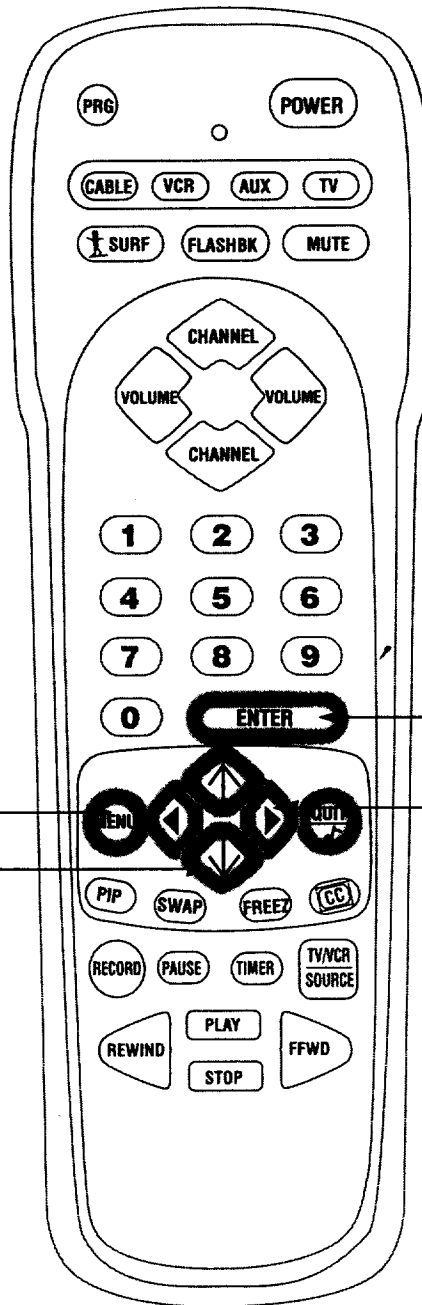
CAPTIONS WHEN MUTED

Sets captioning to come on automatically when your volume is soft muted or muted.

Language and Background Menus

Choose what language your on-screen menus appear in.

- 1 Press the MENU button until the Setup menu appears.
- 2 Using the UP/DOWN arrows, select Language in the menu.
- 3 Press a RIGHT/LEFT arrow to choose which language you prefer, English, Spanish, or French.
- 4 Press ENTER or QUIT to return to normal TV viewing.



Background feature

- 1 Press the MENU button until the Setup menu appears.
- 2 Using the UP/DOWN arrows, select Background in the menu.
- 3 Press a RIGHT/LEFT arrow to choose which language you prefer, English, Spanish, or French.
- 4 Press ENTER or QUIT to return to normal TV viewing.

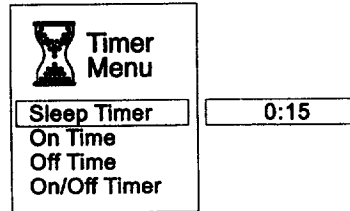


Turning your Background ON makes reading your menus easier.

Customize the look of your on-screen menus.

Sleep Timer

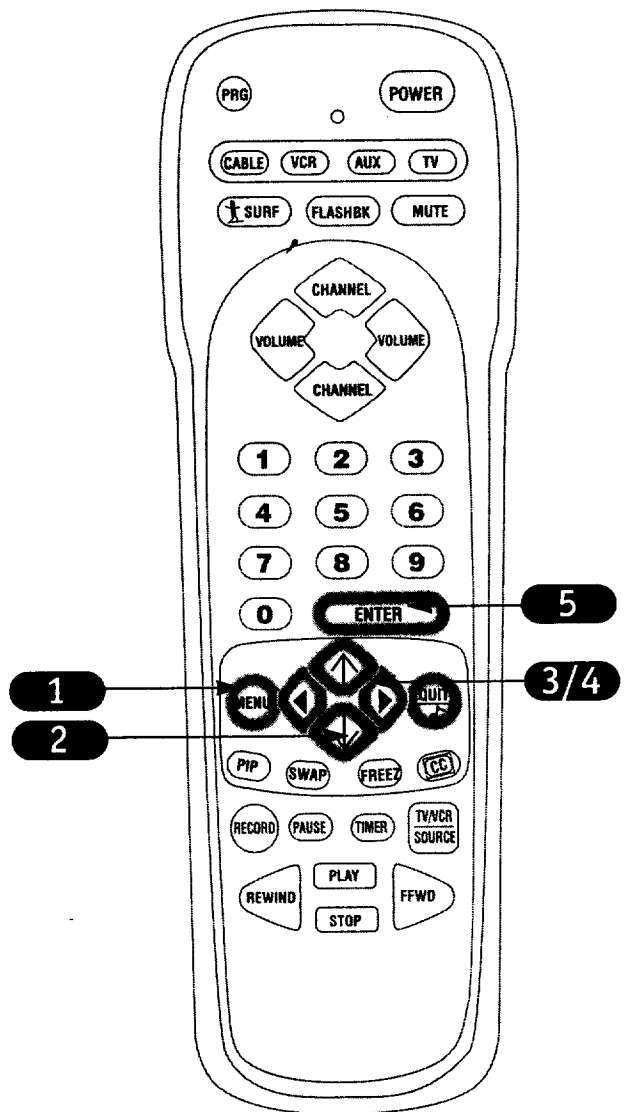
- 1** Press the MENU button until the Special Features menu appears.
- 2** Using the UP/DOWN arrows on the remote control, select Timer Setup on your screen.
- 3** Press a RIGHT/LEFT arrow. The Timer Menu screen will appear.
- 4** Use the RIGHT/LEFT arrows to adjust the length of time (fifteen and thirty minute increments) until the TV shuts down.
- 5** Press ENTER or QUIT to return to normal TV viewing



As the Good Display counts down the final 60 seconds, the audio and video of the entertainment Machine "dim" for a soft, discreet shut down.



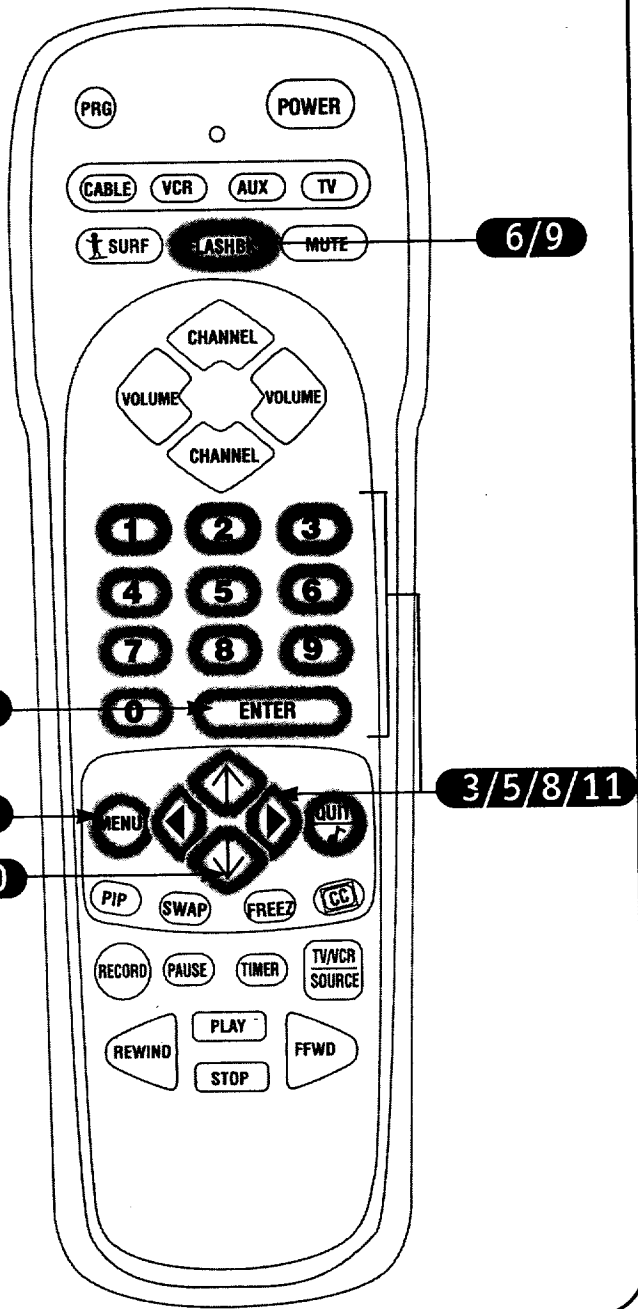
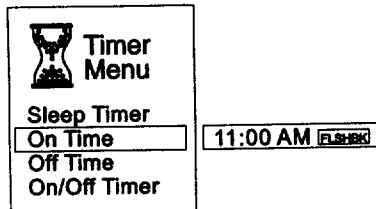
This feature is also available by using the TIMER button on the remote.



On/Off Timer

Automatically turn your Zenith Entertainment Machine on or off.

- 1** Press the MENU button repeatedly until the Special Features menu appears.
- 2** Using the UP/DOWN arrows to select the Timer Setup Option.
- 3** Press a LEFT/RIGHT arrow to access the Timer Menu screen.
- 4** Use the UP/DOWN arrows to select On Time.
- 5** Use the LEFT/RIGHT arrows or use the NUMBER KEYS to enter the exact time you wish the TV to turn on.
- 6** Press FLSHBK to select AM or PM.
- 7** Press the DOWN arrow to select Off Time.
- 8** Again, use the LEFT/RIGHT keys or use the NUMBER KEYS to enter the exact time you wish the TV to turn off.
- 9** Press FLSHBK to select AM or PM.
- 10** To activate the time settings you have just selected, press the DOWN arrow to select On/Off Timer.
- 11** Use a LEFT/RIGHT arrow to turn on the timer.
- 12** Press ENTER or QUIT to resume normal TV viewing.



The On/Off timer will not work until the Clock on your television has been set.

Channel Labels

Choose preset labels for channels or create your own.

1 Press the MENU button repeatedly until the Special Features menu appears.

2 Using the UP/DOWN buttons, select Ch. Labels in the menu.

3 Press a RIGHT/LEFT arrow and a blue screen will fill with a list of possible channel labels. The current channel will appear in the upper-right corner inset.

4 Choose a label for the channel by using any of the UP/DOWN or LEFT/RIGHT arrows.

NOTE: The (----) label indicates that your TV will accept the original, broadcast label, if sent by the broadcaster, and (None) will block all labeling.

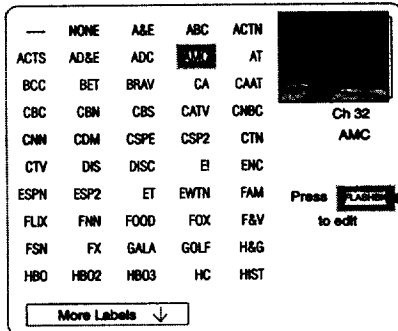
- a) To edit any of the labels, push the FLASHBK button to reach the Edit menu and a second screen will appear with an alphabet display.
- b) Use the arrow keys to reach a letter, and press ENTER to select it. You can use up to four letters in the label.
- c) Press FLSHBK to return to the full label menu.

5 Use the CHANNEL UP/DOWN buttons or the NUMBER KEYPAD, select the next channel you wish to label.

6 Press ENTER or QUIT to accept the label and return to regular TV viewing.



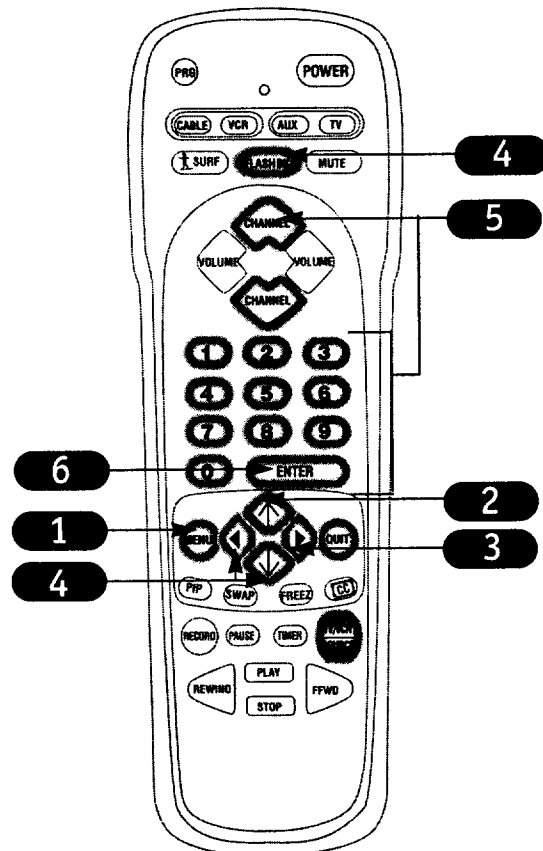
If you watch cable with a cable box and have your channel set to 3 or 4, you should set the label to None.



_ N B C _ _ _ _

_ A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z 0 1 2 3 4
5 6 7 8 9 , . / & # + ! ? * ñ É

Use Arrows To Select Characters
Press ENTER to Add Characters
Press FLSHBK To Return



Source ID

Source ID helps you keep track of which devices are hooked up to your TV's source jacks. You have a choice of a variety of labels or create one of your own!

- 1 Press the MENU button until the Special Features menu appears.
- 2 Using the UP/DOWN arrows, select Source ID in the menu.
- 3 Press a RIGHT/LEFT arrow to enter the Source ID screen. Your screen will be replaced by a blue one that lists all the sources and their current labels. The titles under Source will correspond to the jack labels on the back of your Entertainment Machine. The titles under Label are what you will edit.

NOTE: The image in the upper-right corner will display whatever signal is being received from the highlighted source.

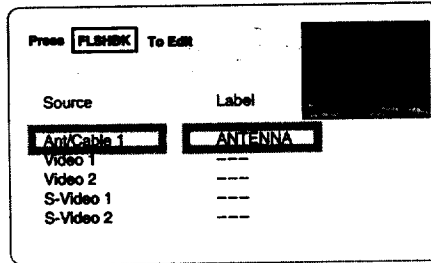
The (----) label indicates that your source name will be the default name shown in the source column. A source can be disabled by choosing that option under label so that they will not appear in the Source menu or when pressing the SOURCE button.

- 4 With the UP/DOWN arrows, select which source you want to label.
- 5 Pressing a RIGHT/LEFT arrow will cycle through the available source labels. Choose one that best describes the equipment connected to the jack.
 - a) To edit a label name, select the title you want to change, and press the FLSHBK button to reach the Edit screen.
 - b) You can scroll through the letters using the UP/DOWN and LEFT/RIGHT arrows. Press ENTER to choose a letter; you can use up to 10 letters in the label.
 - c) When you are finished, press the FLSHBK button to return to the full Label menu.

- 6 Repeat the above steps for another source, or press ENTER or QUIT to return to regular TV viewing.

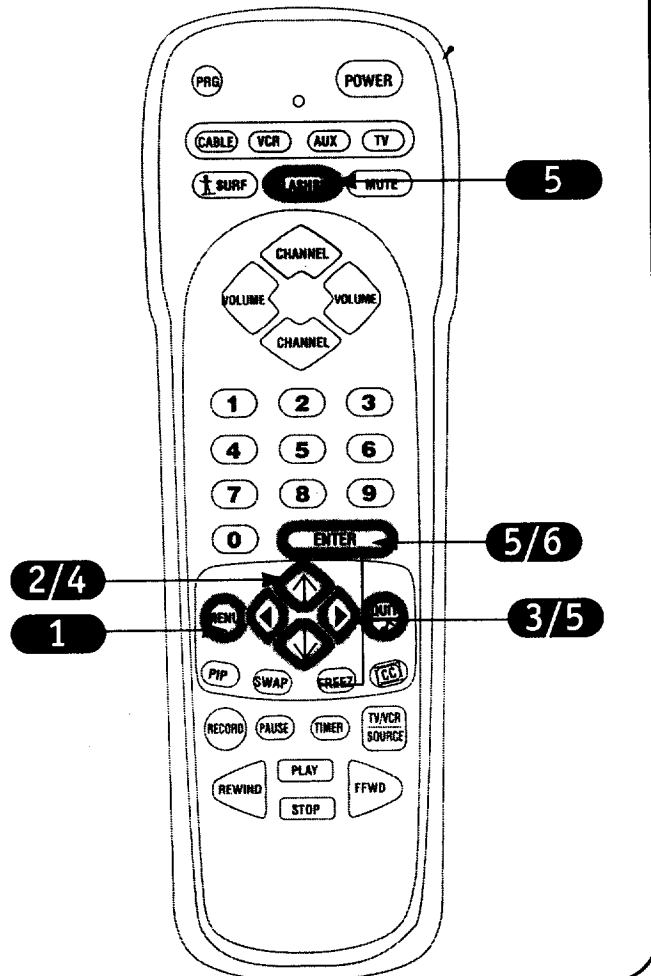
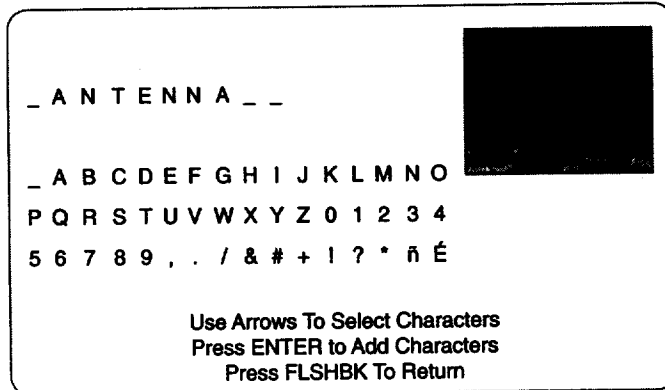


Channel labels can be edited and re-edited every time you rearrange your equipment. Make sure to keep track!



Name the sources for the Entertainment Machine with Source ID.

Edit Screen



Customize your surf lists for up to four people.

Surf ID

- 1** Press the MENU button until the Special Features menu appears.
- 2** Using the UP/DOWN arrows, select Surf ID in the menu.
- 3** Press a RIGHT/LEFT arrow to enter the Surf ID screen. Your screen will be replaced by a blue one that lists all the sources and their current labels.

NOTE: The image in the upper-right corner will display whatever signal is being received from the highlighted source.

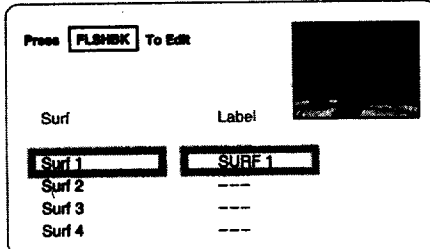
The (----) label indicates that your Surf name will be the default name shown in the Surf column.
- 4** With the UP/DOWN arrows, select which surf list you want to edit.
- 5** Press FLSHBK to enter the Edit menu. An alphabet, including some symbols will appear. Spell out the name you want by clicking on one letter after the other (up to 10 characters).
- 6** Following the on-screen directions and using all four of the arrow keys, customize the name of the surf list (your name, the kids' names, etc.).
- 7** Press FLSHBK to return to the Surf list screen. Press ENTER or QUIT to resume regular TV viewing.



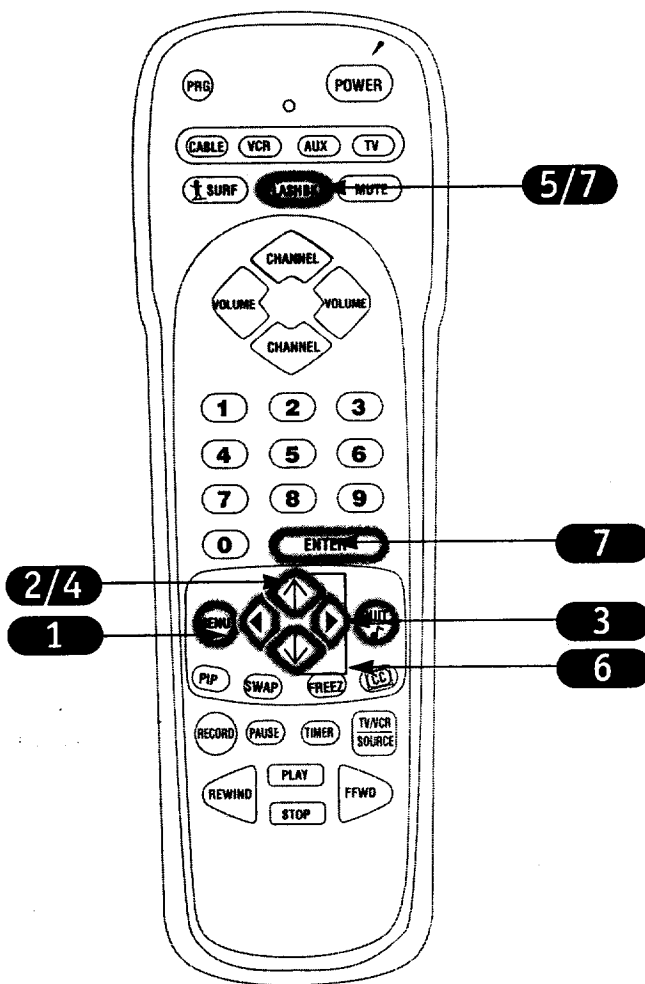
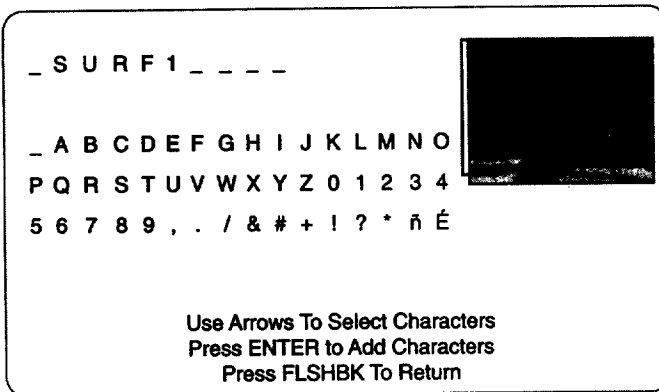
If you want to return a label to the default name, edit the name using all spaces in place of letters.



Customized surf channel lists can be disabled by choosing that option under label so they will not appear in the surfing display when pressing the surf button.

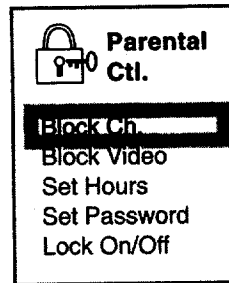
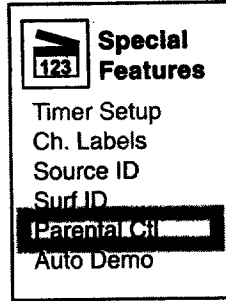


Edit Screen

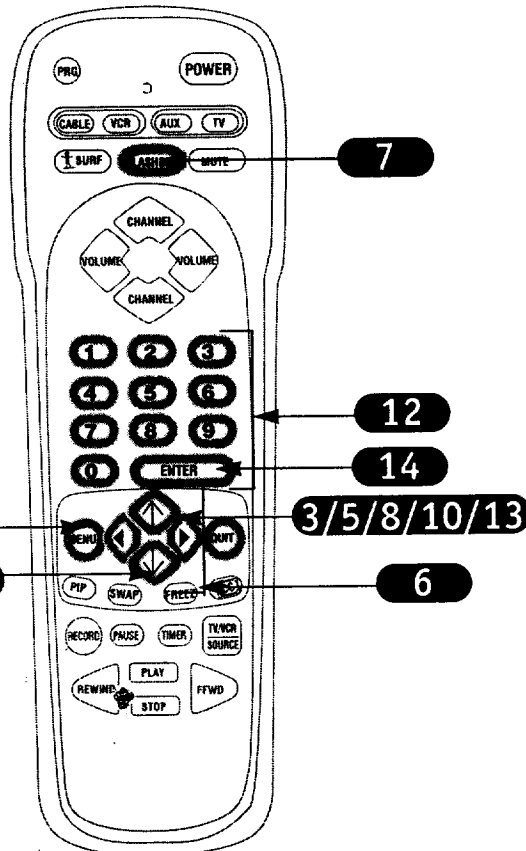
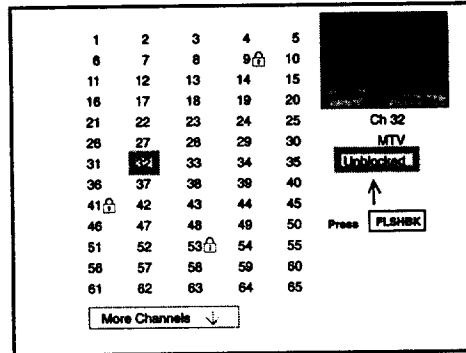


Parental Control

- 1 Press MENU until the Special Features menu appears.
- 2 Using the UP/DOWN arrows, select Parental Ctl. within the menu.
- 3 Press a RIGHT/LEFT arrow to enter the parental controls (Par. Ctl.) menu.
- 4 With the UP/DOWN arrows, select Block Ch.
- 5 Press a RIGHT/LEFT arrow to enter the channel selection menu. The screen will be replaced by a blue screen listing all of your available channels.
- 6 Using the arrow keys select the channel numbers that you wish to block. The screen lists the channel as Unblocked.
- 7 Press the FLSHBK key to block the channel. A small padlock icon will appear next to the channel number to indicate that the channel is blocked.
- 8 Press the MENU button to return to the Par. Ctl. menu. To block your video inputs, select "Block Video" and you will be given an option to block all video sources. Press RIGHT/LEFT arrow to block.
- 9 Press an UP/DOWN arrow to select Set Hours in the menu.
- 10 Press a RIGHT/LEFT arrow to increase/decrease the number of hours the channel is to be blocked.
- 11 Use the DOWN arrow to select Set Password. A display will appear to the right, prompting you to enter a code.
- 12 With the Number Keypad, enter a four-digit code. You will be asked to reenter the same code to verify it.
- 13 Lock On/Off will now be highlighted. Press RIGHT/LEFT arrow to enable channel blocking.
- 14 Press ENTER or QUIT to exit Parental Control and resume TV viewing.



Make sure you know what your kids aren't watching.



To unblock Parental Control, go back to Parental Control feature on the Special Features menu and enter your password, then set lock to Off.

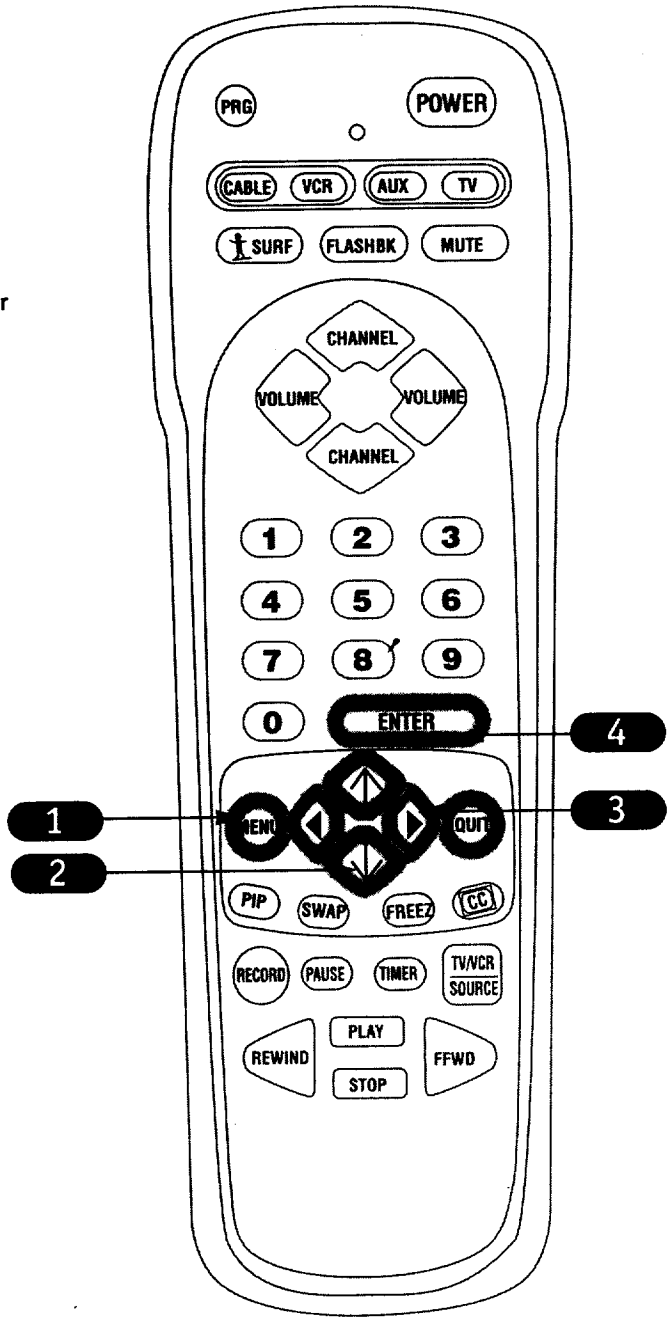


Should you forget the password you activated, parental control will automatically deactivate when the preset time expires, which cannot be adjusted.

Auto Demo

Your Entertainment Machine will show you all your menu options.

- 1** Press the MENU key on the remote control repeatedly until the Special Features menu appears.
- 2** Using the UP/DOWN arrows on the remote control, select Auto Demo on your screen.
- 3** Press a RIGHT/LEFT arrow, select whether you want Auto Demo on or off.
- 4** Press ENTER or QUIT to return to TV viewing.



Auto Demo displays many of the menus and displays your Zenith Entertainment Machine has, showing you the layout and location of your options.



To let you know it's running, Auto Demo places an animated icon in the upper-right corner of your screen.



Pressing any key on the remote or front panel of your Entertainment Machine will temporarily stop the demo. To cancel the demo, you must turn off the Auto Demo.

Audio Menu

Customize the sound on your Entertainment Machine.

1 Press the MENU key on the remote control until the Audio menu appears.

2 Using the UP/DOWN arrows on the remote control, select the setting you want to change. Choose from:

- **Bass:** Increase/decrease lower-end sounds.
- **Treble:** Increase/decrease higher-end sounds.
- **Balance:** Allows you to put the sound more to the left or right channel.
- **Audio Mode:** Choose from stereo sound, mono, or SAP.
- **SoundRite:** Scans for changes in sound level during commercials, then adjusts the sound to match your current level.
- **Front Surr:** Turn the front surround sound speakers on or off.
- **Speakers:** Turn the regular speakers on or off.

3 Use the RIGHT/LEFT arrows to adjust the sound setting to whatever you prefer.

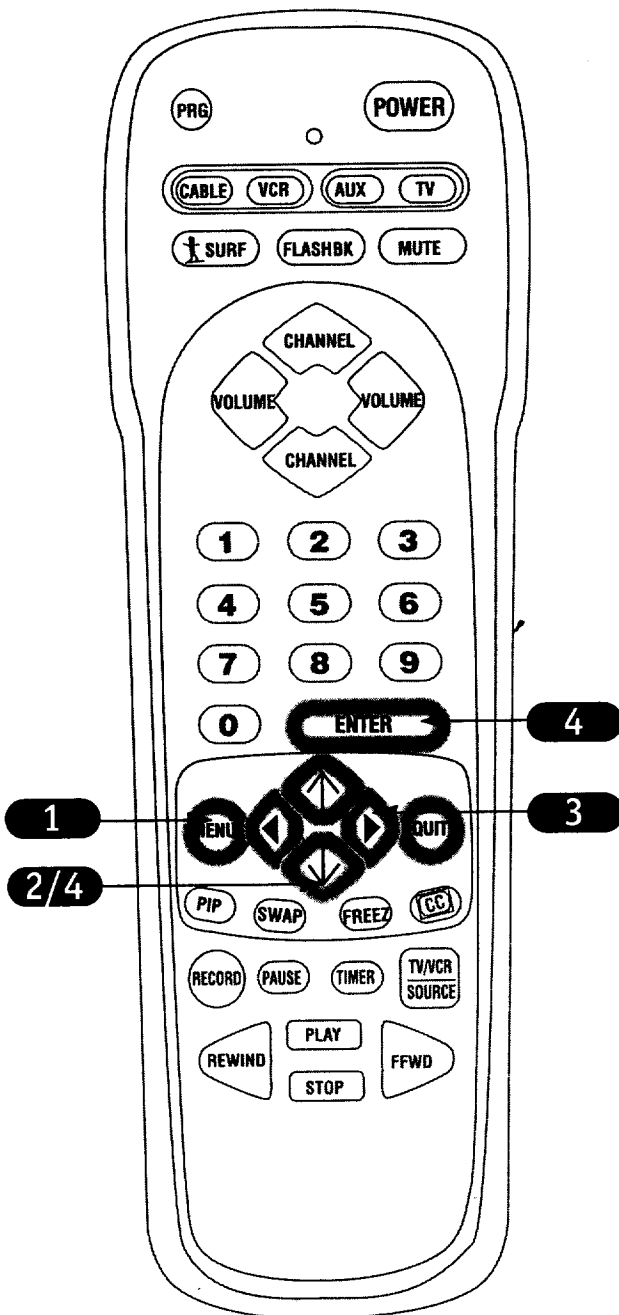
4 Press the UP/DOWN arrow to return to select another option or press ENTER or QUIT to return to TV viewing.



Not all programming is broadcast in stereo sound, or has Second Audio Programming/SAP.



Programming that doesn't broadcast SAP may be silent when you set your Entertainment Machine on this setting.



STEREO SOUND

Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.

MONO SOUND

Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.

2ND AUDIO/SAP

Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.

Video Menu

Customize the picture quality on your Entertainment Machine.

1

Press the MENU button until the Video menu appears.

2

Using the UP/DOWN arrows, select the menu option that you want to change. Your options are:

- **Contrast:** Changes the amount of difference between black levels and white levels in your picture.
- **Brightness:** Increases or decreases the amount of white in your picture.
- **Color:** Adjust levels of all colors.
- **Tint:** Adjust the relative amounts of the color red and green in your picture.
- **Sharpness:** Raise or lower the definition of the picture. The lower the level, the softer the image will appear.
- **Color Temp:** Adjust the color qualities of the entire picture at once: warm, medium, and cool.
- **Video Filter:** Reduces outside interference to enhance picture clarity.
- **Skin Tone:** Automatically adjusts the appearance of skin color, making it more natural.
- **Video Preset:** Choose from a range of options depending on your viewing situation. Custom uses the settings you have manually chosen, while Preset restores the levels to their original settings.

3

Press a RIGHT/LEFT arrow to adjust the option you have selected.

4

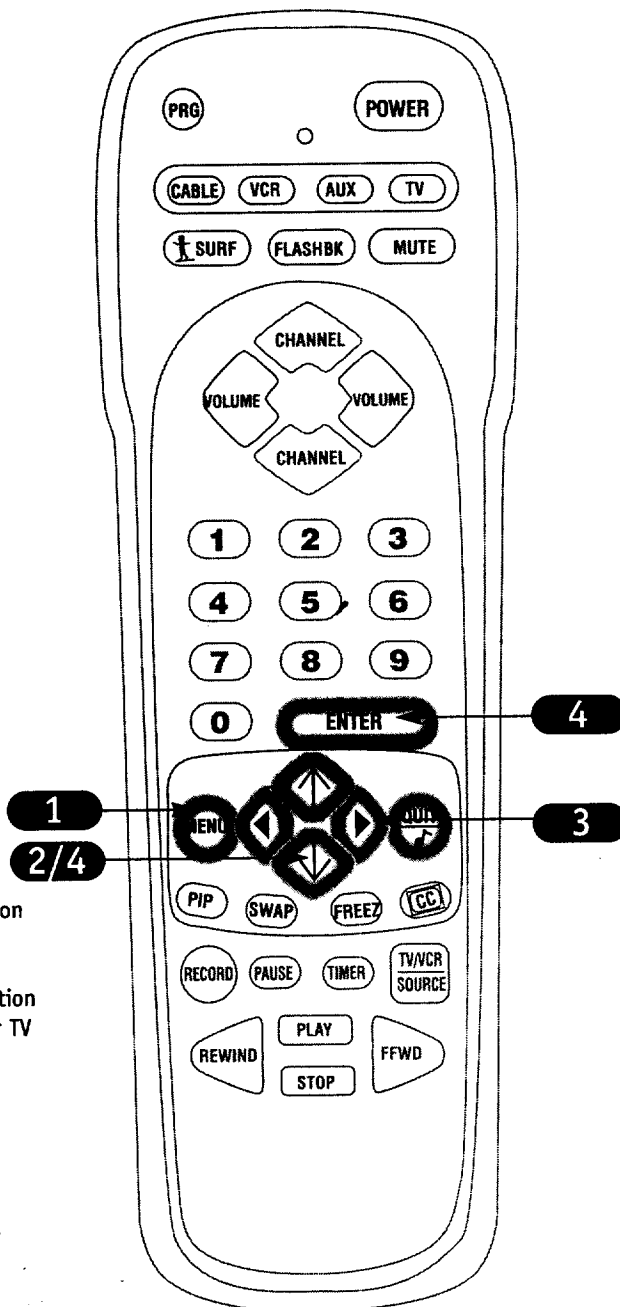
Press UP/DOWN arrows to select another option or press ENTER or QUIT to return to regular TV viewing.



Someone left the picture looking terrible? Just choose Preset under Video Preset to get the regular picture back quickly.



Your modified video selections can be different for each source. Modifying the settings in one source will not change settings in another source.



PIP Overview

YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture. Don't want to miss any of the big game, but hate commercials? Just put the game in the inset, and surf with the main picture.

WORKING WITH PIP

Just like your Entertainment Machine's main screen, PIP will need a source from which to take its image. This featured can be adjusted under the Source menu (see page 17).

PIP BUTTON FUNCTIONS

PIP: Press PIP to display your Picture-In-Picture. Press again to remove PIP.

SWAP: Press SWAP to swap the main and the PIP pictures. Press again to return to the original display.

FREEZ: Press FREEZ to freeze the motion in the PIP window. Press FREEZ again to return to a live PIP window.

Audio Swap: To switch Audio sound from the Main Picture source to the sound from the PIP inset picture source, (without any other menus on-screen) repeatedly press the musical note key.

PIP Movement: When PIP is displayed, the PIP inset can be moved to any corner of the screen using the arrow buttons.

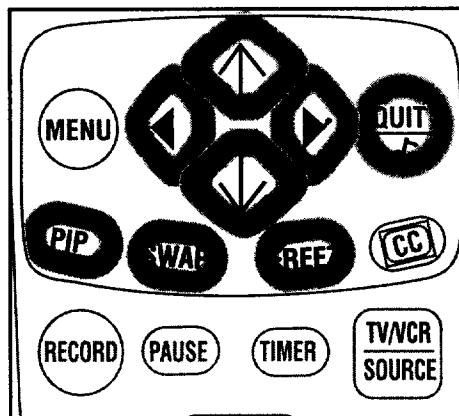
POSSIBLE REASONS FOR ADJUSTING PIP SOURCE

1. You use a cable box to receive premium channels, and have "looped out" on the back of the TV. Set the PIP source to the cable box source, and the Inset will display the premium channels, which can then be swapped with the main picture.
2. You want to watch a video tape, but keep scanning for another movie or game. Set the PIP source to VIDEO 1 or 2 and you can watch the VCR and TV, swapping between the two.

Picture-in-picture explained.



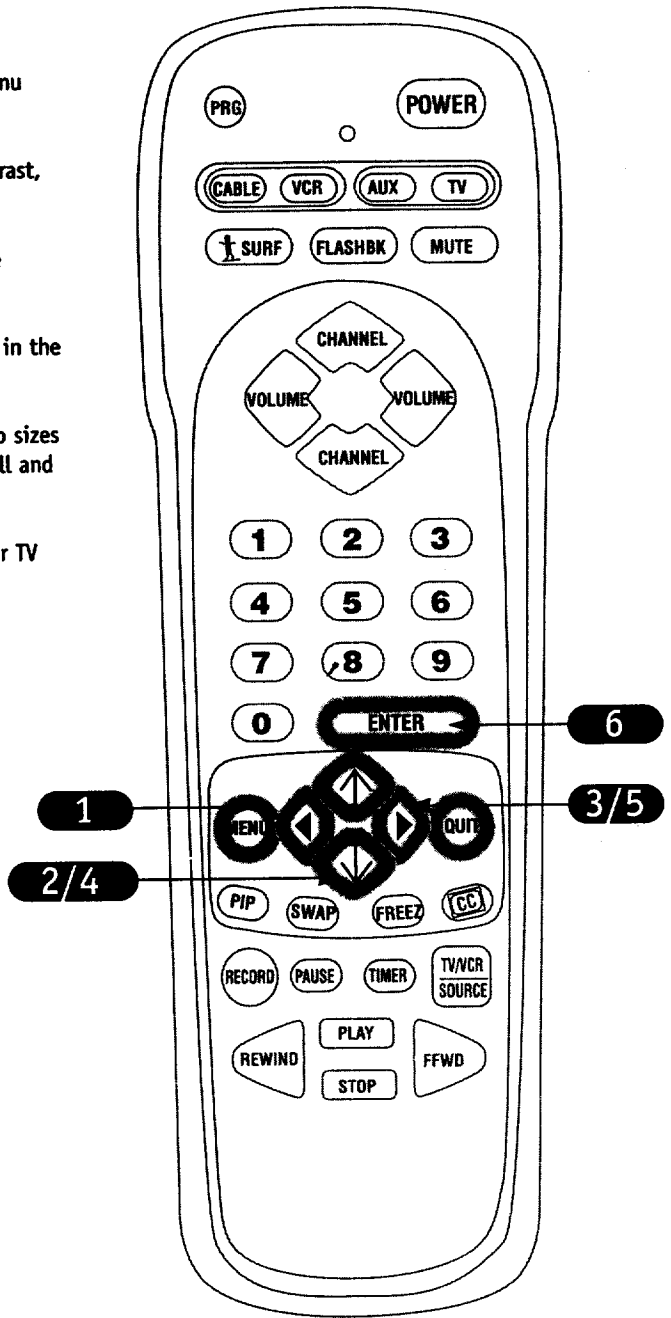
Picture-in-Picture Main Picture



Control the picture qualities of your PIP inset.

PIP Menu

- 1** Press MENU repeatedly until the PIP Menu appears.
- 2** Using the UP/DOWN arrows, select Contrast, or Tint.
- 3** Use the RIGHT/LEFT arrow to adjust the selection you have chosen.
- 4** Using the UP/DOWN arrows, select Size in the menu.
- 5** Press a RIGHT/LEFT arrow. You have two sizes available for the PIP inset picture: Small and Large.
- 6** Push ENTER or QUIT to return to regular TV viewing.



PIP This is the most common way to refer to the Picture-In-Picture (PIP) option.

Programming the Remote

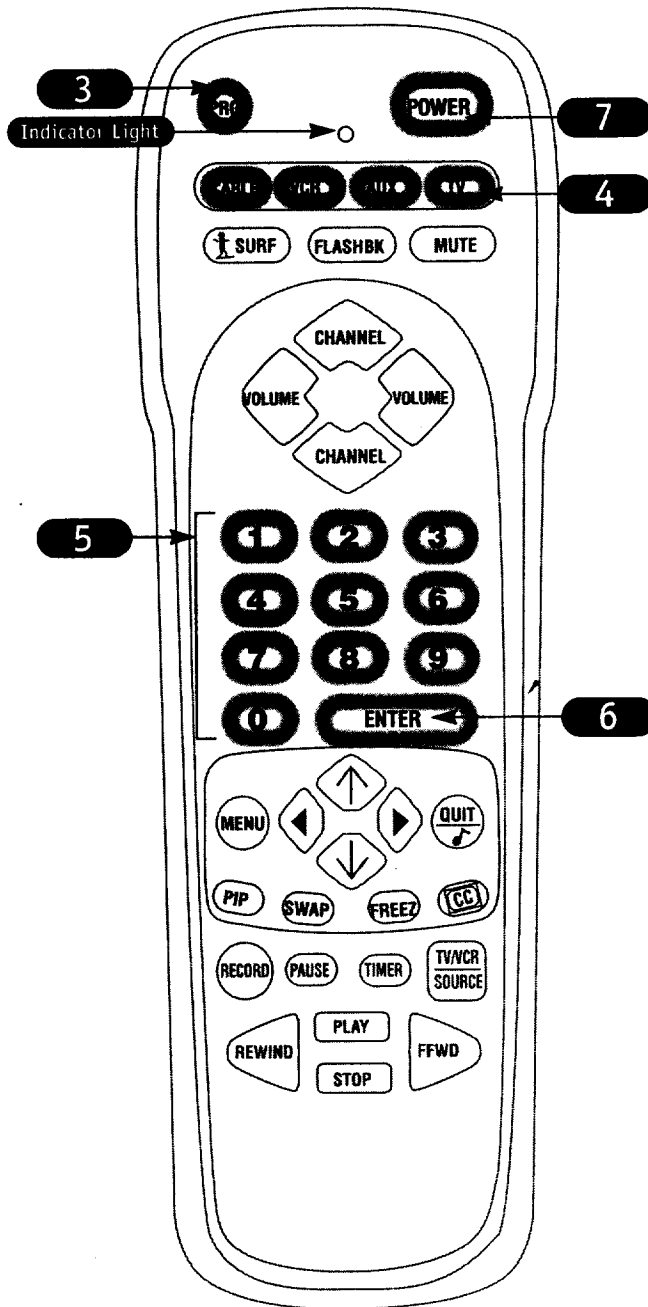
- 1** The device you want to program should be ON.
- 2** On the chart in this manual, find the type of device you're programming and then find the brand name. Make a note of the three-digit code—you'll need it soon.
- 3** Press and hold the PRG key. It's recessed so it doesn't get pushed accidentally. When the indicator light turns on, you can release the button.
- 4** Push the button with the name of the device you're programming (VCR, CABLE, AUX, TV).
- 5** Using the number pad, enter the three digit code found on the chart in the Reference section.
- 6** Press ENTER to save the code. The indicator light will flash three times and turn off if the code was accepted.
- 7** Aim the remote at the device and push the POWER button. It should turn off. If not, try the other codes listed and continue from step three.



Programming your Zenith remote will allow you to use one remote to work up to 7 different devices!



Not all devices will work with your Zenith remote control.



Program your remote to work with a vast range of A/V devices.

Programming Codes

Find the codes you need to program your remote.

TVs

Admiral	116 121 130 133	Funai TV/VCR	154	MGA/Mitsubishi.	104 119 120 130 140 155	Sears	103 108 109 110 111 118 134
Adventura TV/VCR	154	General Electric	106 107 114 116 117 161	Montgomery Ward	103 104 105 113 114 119 121 130 133	Sharp	103 105 122 133 137 156 169
Akai	104	Goldstar	103 104 119 147	NEC	104 119	Signature 2000	103 104 105 113 114 119 121 130 133
Amark	103 146	Goldstar TV/VCR	153	Panasonic	106 107 160 166	Sony	115 143 151 170
AOC	104	Hitachi	102 103 129 163	Panasonic TV/VCR	174	Soundesign	139
Bell & Howell	121	J.C. Penney	104 110 114 117 119	Philco	103 104 112 113 139	Sylvania	112 113 117 119 127 128 139
Broksonic	131 136	JVC	125 132 164	Philips	112 113	Symphonic TV/VCR	154
Candle	139	KMC	103	Pioneer	135	Tatung	106
Centurion	119	KTV	103 104 138	Portland	103	Teknika	103 112 121 124 139
Citizen	121 139	Kurazai	121	ProScan	116 157 162 167	Telerent	103 121
Contec	141	Lodgenet	121	Quasar	106 107	Toshiba	110 111 134 171
Coronado	103	Logik	121	RCA	104 116 126 157 161 162 167 168	XR 1000	121
Crown	103	LXI	133 137	Realistic	105 123 124	Yorx	119
Curtis Mathes	116 119 121	Magnavox	103 112 113 117 119 127 128 139 165	Sampo	119	Zenith	101 149 175
Daewoo	149 159	Magnavox TV/VCR	173	Samsung	103 119 134 141	Zenith TV/VCR	153 154 172
Daewoo TV/VCR	148	Majestic	121	Sanyo	108 109 118		
Daytron	119	Marantz	104 120 155	Scott	119 124		
Elektra	121	Megatron	146				
Emerson	103 104 123 124 131 136 145	Memorex	121				
Emerson TV/VCR	158						
Fisher	109 118						

VCRs

Admiral	208 261	Goldstar	209	Panasonic	214 251 259	Sony	217 232 237
Adventura	231 261	Go Video	256 262 263	Pentax	215	Sony Beta/VHS	237
Aiwa	231	Hitachi	215 231 257	Philco	207 214	Sony Video 8	217
Akai	223 238 241	Instant Replay	214 227	Philips	207 214 227	Sylvania	207 214 227
Audio Dynamics	202 218	J.C. Penney	214 215 218 227	Pioneer	210 215	Symphonic	231
Bell & Howell	206 247	JVC	202 224 225 258	Portland	246	Tashiko	209
Broksonic	221 226 233 250 255	Kenwood	202	ProScan	216 260	Tatung	202
Canon	214	Logik	239	Quasar	214 259	Teac	202 231
Citizen	209	LXI	209 231	RCA	215 216 220 227 240 242 249 260	Teknika	209 234
Craig	212	Magnavox	207 214 231	Realistic	206 208 212 214 231	Toshiba	205 215
Criterion	239	Marantz	207 218	Samsung	220 230 238	Vector Research	204 218
Curtis Mathes	214 259	Marta	209	Sansui	239	XR 1000	239
Daewoo	244 246 248 254	Memorex	206 212 214 231	Sanyo	206 212 247	Yamaha	202 218
Daytron	236 246	Mitsubishi	204 222 252 264	Scott	204 205 233 243	Zenith	201 224 225 229 237
DBX	202 218	Montgomery Ward	208 214 216 219 231 249	Sears	206 209 211 212 215	Zenith Beta	237
Emerson	203 209 221 223 226 233 235 243 250	Multi Tech	239	Sharp	208 261		
Fisher	211 212 213 247	NEC	202 218	Shintom	239		
Funai	231	Optimus	208 209 259	Signature 2000	208 214 216 219 231 249 261		
General Electric	214 216 220	Orion	250 283				

Programming Codes

Find the codes you need to program your remote.

Cable Satellite

Allegro 358 362	Kale Vision 335	Pioneer 315 343	Tocom 317 318 346
Allegro A/B Switch 361	Macom 314 321	RCA DSS 373	Unika 348 362
Gemini 305 331 338	Magnavox 334	Regency 329	United Satellite . . 344
General Electric . . 367	NSC 335 339 368 369 370	Samsung 335	Universal 358 362
General Instrument 304 305 306 307 308 309 310 318	Oak 311 332 342	Scientific Atlanta 316 323 336 364	Vid Tech 340
Hamlin 302 303 345 365 366	Panasonic 313 320	Sprucer 313	Video Way 349
Jerrold 304 307 308 309 310 318 360 363	Paragon 333	Standard Comp . . 335	Viewstar 354 355 372
	Philips 347 350 352 354 355	Texscan 339 356 371	Zenith 301 353 374
			Zenith Satellite . . 312 328 330 351 378

Video Disc Players

Pioneer 402 403	Zenith 401
Sanyo 401	
Sony 404	

Audio CD Players

Akai 409 424	NAD 425 426 447	Sanyo 438 439	Zenith 460 461 498 501 502
Crown 410	Nakamichi 427 428	Scott 440	
Denon 411	NEC 429	Sharp 441 442	
Fisher 412 438	Onkyo 430	Sony 443 444 445	
Goldstar 460	Panasonic 431 432	Soundesign 461 498 501 502	
Harman/Kardon . . 413	Philips 421 433 434	Sylvania 433	
JVC 415	Pioneer 431 435	Teac 446	
Kenwood 412 416 417 441	Quasar 432	Technics 432 459	
Magnavox 421 422 433 434	Radio Shack 431 436 439 440 441	Toshiba 447	
Mitsubishi 423 424	RCA 437	Yamaha 448	

Audio Tape Decks

Denon 455	Philips DCC 454
Harman/Kardon . . 456	Pioneer 451 478
JVC 457	Sony 452
Kenwood 450	
Onkyo 458	

Audio Tuner and Amplifiers

Denon 462 463	Pioneer 477 478 479	Teac 494 495
Fisher 464	Radio Shack 487 488	Technics 497
Goldstar 460	Realistic 480	Yamaha 496
Harman/Kardon . . 465	Sanyo 481	Zenith 460 461 498 501 502
JVC 466	Scott 482	
Kenwood 468 469	Sharp 483	
Marantz 472 503	Sony 489 490 491 492	
Onkyo 473	Soundesign 461 498 501 502	
Philips 475 476		

A complete list of button functions for your remote control.

Zenith Button Functions

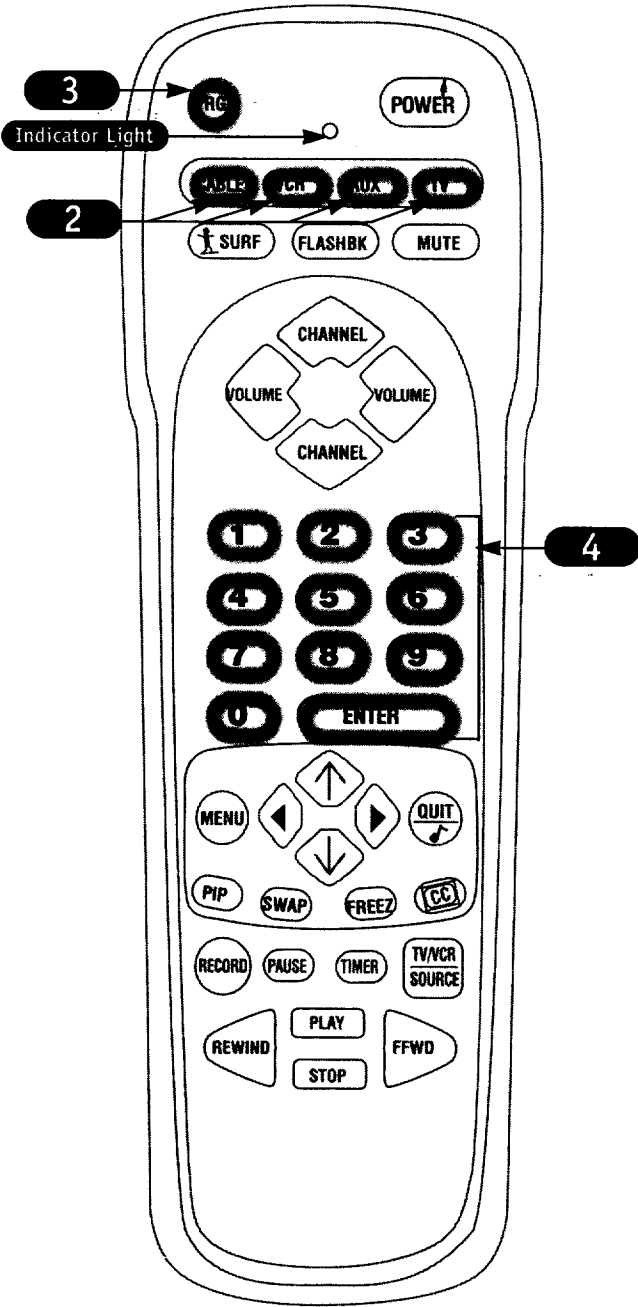
KEY NAME	TV Mode Zenith Code 101	VCR Mode Zenith Code 201	Cable Mode Zenith Code 353	AUX Mode Zenith Code 401
POWER	TV On/Off	VCR On/Off	Cable Box On/Off	AUX TV/Disc
CABLE	Selects Cable	Selects Cable	Selects Cable	Selects Cable
VCR	Selects VCR	Selects VCR	Selects VCR	Selects VCR
AUX	Selects Aux	Selects AUX	Selects Aux	Selects AUX
TV	Selects TV	Selects TV	Selects TV	Selects TV
SURF	Surf On/Off	VCR AM/PM	Cable FC/Fav Ch	AUX Audio
FLASHBK	TV Flashback	VCR Flashback	Cable Flashback	AUX Frame/Time
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
CHANNEL UP	TV Channel Up	VCR Channel Up	Cable Channel Up	AUX Skip >>
CHANNEL DN	TV Channel Dn	VCR Channel Dn	Cable Channel Dn	AUX Skip <<
VOLUME (RIGHT)	TV Volume Up	TV Volume Up	TV Volume Up	TV Volume Up
VOLUME (LEFT)	TV Volume Dn	TV Volume Dn	TV Volume Dn	TV Volume Dn
1	TV Digit 1	VCR Digit 1	Cable Digit 1	AUX Digit 1
2	TV Digit 2	VCR Digit 2	Cable Digit 2	AUX Digit 2
3	TV Digit 3	VCR Digit 3	Cable Digit 3	AUX Digit 3
4	TV Digit 4	VCR Digit 4	Cable Digit 4	AUX Digit 4
5	TV Digit 5	VCR Digit 5	Cable Digit 5	AUX Digit 5
6	TV Digit 6	VCR Digit 6	Cable Digit 6	AUX Digit 6
7	TV Digit 7	VCR Digit 7	Cable Digit 7	AUX Digit 7
8	TV Digit 8	VCR Digit 8	Cable Digit 8	AUX Digit 8
9	TV Digit 9	VCR Digit 9	Cable Digit 9	AUX Digit 9
0	TV Digit 0	VCR Digit 0	Cable Digit 0	AUX Digit 0
ENTER	TV Enter	VCR Enter	Cable Enter	Aux Display
MENU	TV Menu	VCR Menu	Cable Menu	AUX Program
UP ARROW	TV Select Up	VCR Select Up	Cable Up Arrow	AUX Part
DOWN ARROW	TV Select Dn	VCR Select Dn	Cable Dn Arrow	AUX Random
LEFT ARROW	TV Adjust Left	VCR Adjust Left	Cable Left Arrow	AUX x3 FAST <
RIGHT ARROW	TV Adjust Right	VCR Adjust Right	Cable Right Arrow	AUX x3 FAST >
QUIT/ PIP	Quit/Front Surround TV PIP	VCR Quit VCR+	Cable Quit Day Up	AUX Clear AUX Repeat-Side
SWAP	TV PIP Swap	VCR Channel Map	Day Down	AUX Repeat-A-B
FREEZ	TV PIP Freeze	VCR Search	Cable Pg Up	AUX Repeat-Chap
CC	TV Closed Captions	VCR Memory	Cable Pg Down	AUX Memory
TIMER	TV Timer	VCR Timer	Cable Timer	AUX Still
TV/VCR/SOURCE	TV Sources	TV Tuner or VCR Tuner	Cable Info	AUX TV/Disc
RECORD	VCR Record	VCR Record	Cable Buy	AUX Edit
PAUSE	VCR Pause	VCR Pause	Cable Guide	AUX Pause
REWIND	VCR Rewind	VCR Rewind	VCR Rewind	AUX Scan <<
PLAY	VCR Play	VCR Play	VCR Play	AUX Play
STOP	VCR Stop	VCR Stop	VCR Stop	AUX Stop/Eject
FFWD	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward	AUX Scan >>

References: 124-212-37 and µP 221-952-02A

Amplifier Volume Override

Control the volume on your sound amplifier while in other modes.

- 1** Program the code that operates your amplifier into the CABLE or AUX mode, as described on the "Programming Your Remote" page.
- 2** Select the mode in which you want amplifier volume to appear (e.g. TV).
- 3** Press and hold PRG on your remote until the indicator light stays lit.
- 4** Press 4-9-9; then ENTER on the remote. The indicator light will flash three times and then turn off..
- 5** Audio system volume/mute now appears in the mode selected.



Your volume and mute keys now control your amplifier. To put everything back to normal, reprogram all buttons with their original codes (see the "Programming Your Remote" section).



If you can't find the code for your amplifier, use the Auto Find feature.

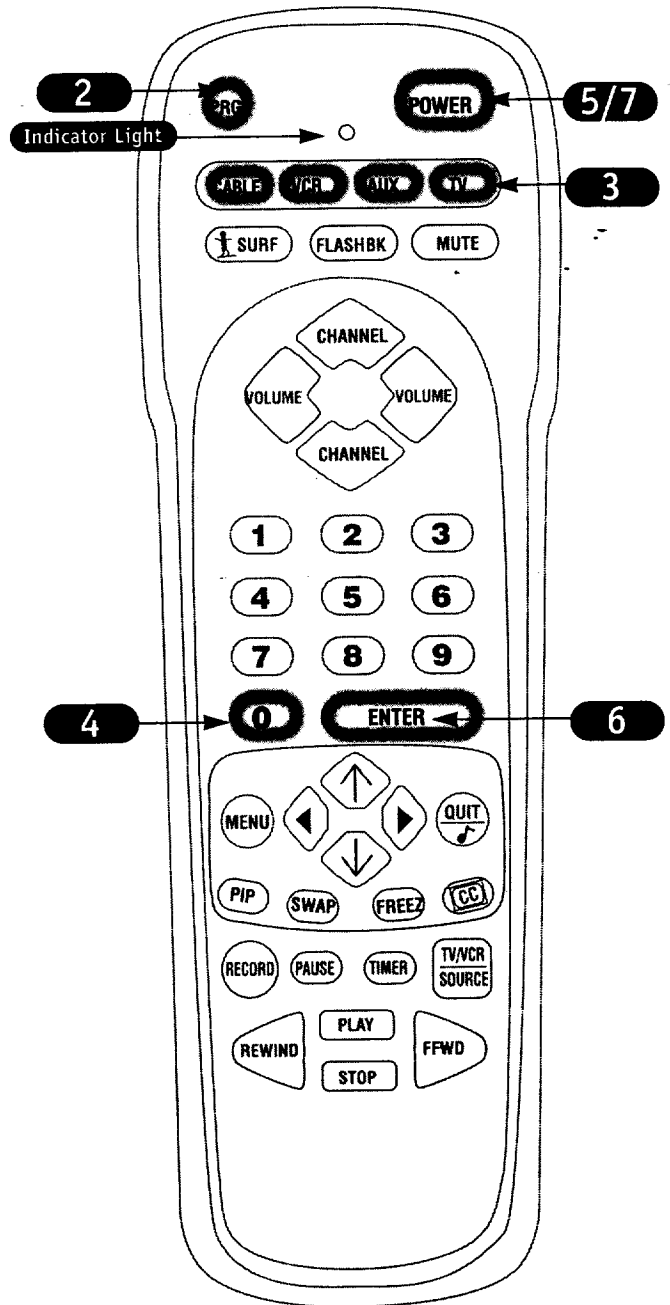
AMPLIFIER: An external machine that amplifies sound from a television, CD player, VCR, or other A/V device.

Remote Control Auto-Find

Use the remote control to search all possible codes.

If Programming the Remote did not find your code, try this procedure to automatically find the code for your device. If your remote becomes inoperable, go back to "Programming your Remote" and enter the Zenith TV code for step five.

- 1** Turn on the device you're programming for the remote control.
- 2** Press and hold the PRG key until the indicator light turns on.
- 3** Press the key for the device you're trying to program (CABLE, VCR, AUX, TV).
- 4** Enter the code 0-0-0 (zero-zero-zero), then press the ENTER key right away.
- 5** Aim the remote at the correct device and press the POWER button. Allow a second to pass, then push the POWER button again. Repeat until the device turns off. (This is a trial and error process, so it may be necessary to repeat these steps until the remote finds your code.)
- 6** Push ENTER to save the code. The indicator light will flash 3 times and then turn off.
- 7** Press POWER to turn the device back on.



You can quickly get out of Auto Find by pressing the PRG button.



If the indicator light stays on while you push Power, instead of turning off, all the codes have been tried and your device can't be programmed.

Maintenance

Caring
for your
Entertainment
Machine.

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the plug before you begin any cleaning.

SCREEN CLEANING

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

CABINET CLEANING

1. Use a soft cloth with a mild soap solution to wipe the cabinet (avoid using any cleaner that says "industrial strength" or "will wash the white off of rice" on the label).
2. Rinse the cloth and wipe the cabinet again.
3. Let the cabinet air-dry before turning the Entertainment Machine on.

WOOD CABINETS

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

EXTENDED ABSENCE

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your Entertainment Machine before leaving.

Caring
for your
Entertainment
Machine.

Maintenance cont'd

PICTURE INTERFERENCE

Even though you may be getting cable, the signal may be weak, which means the quality of your picture may suffer due to other factors. If there are problems with the image on your Entertainment Machine, consult the Troubleshooting guide on the following pages.

VIDEO GAMES AND OTHER FIXED-PATTERN DISPLAYS

If you use your Entertainment Machine to play video games or for other uses that have single, fixed images, such as a photo-CD player, you should avoid setting the Brightness level too high. If static images, like network identification patterns, are left sitting for too long, they can leave a permanent impression on the picture tube. You can reduce the chance of this happening by limiting the amount of time you use the fixed-image display, and by reducing the contrast and brightness levels or by setting your video preset to Video game setting.



If you unplug your Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier.

Troubleshooting

Some quick and easy tips to fixing problems yourself.

SYMPTOMS	SOLUTIONS
Snowy picture and unclear sound.	<ul style="list-style-type: none"> • Check your antenna connection or location • Check your cable input. • Check to see if the TV/.VCR button on your VCR has the TV selected.
Multiple images or 'ghost shadows.'	<ul style="list-style-type: none"> • Check your antenna direction and/or location. • Check your cable input • Make sure the cable from your antenna to your Entertainment Machine is properly connected.
Interference: Sharp lines across the screen and unclear sound.	<p><i>The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment</i></p> <ul style="list-style-type: none"> • If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off.
Normal picture but no sound.	<ul style="list-style-type: none"> • Check volume levels. • Make sure the TV is not Muted. • Try another channel. The problem may be the broadcast, not your Entertainment Machine. • Are the Audio A/V cables properly installed? • Are the wires for external speakers (if you have external speakers) properly installed? • Make sure your speakers turned on under the Audio menu. • If your audio mode is set to SAP, that channel may not have a SAP program.
No picture and unclear sound.	<ul style="list-style-type: none"> • Are you in TV or cable tuning mode, and should be in the other? • Make sure output channels on all A/V equipment are on the same channel (3 or 4). • Check that all connections are tight.
No picture and no sound.	<ul style="list-style-type: none"> • Is the AC power plugged in? • Check that your AC power outlet works. (Test it by plugging in something else or try another plug.) • Make sure your brightness and audio controls are set properly. • Try another channel. The problem may be with the broadcast.
No color, but the sound is O.K.	<ul style="list-style-type: none"> • Check the color control in the Video menu. • Try another channel. The problem may be with the broadcast.
Picture has a big black box on it, but the sound is O.K.	<ul style="list-style-type: none"> • The CC (closed caption) option may be in Text mode. Select Caption 1, or OFF in the Captions/Text menu.(See page 20).
Picture has two horizontal black bars, one on top and one on bottom.	<ul style="list-style-type: none"> • Your program is in letterbox. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars. Trust us.

Some quick
and easy
tips to fixing
problems
yourself.

Troubleshooting, cont'd

Remote control doesn't work.

- Make sure the batteries are fresh and installed properly.

Menu options can't be changed or selected.

- Try unplugging your Entertainment Machine for a few minutes, then plug it back in.

No picture or sound when any non-cable source is selected.

- Check to see if the source equipment has been turned on.
- Make sure that the connections are secure on the back of your Entertainment Machine and on the source equipment.

Weak or no Stereo Sound when using a stereo VCR.

- Check to see if all the connections are secure.
- Look in the Audio mode menu to see if all the settings are correct.
- You are using channel 3 or 4 to view your VCR. No stereo sound is present under that decision.

The PIP inset is black or lacks contrast .

- You might want to adjust the PIP picture settings under the PIP menu.
- Check that all the wires are connected properly.
- Check to see if your input source for PIP is set correctly.

The PIP inset is "snow" when the source is Ant/Cable 1.

- Look to see if the TV/VCR button on your VCR has the TV selected.

Time is incorrect.

- Automatic: Check to see if PBS Channel is correct and then check Time Zone/Daylight Savings time settings under Clock menu. Channel/time Data might not be present on PBS Channel (use manual setting).
- Manual: Make sure the time was set initially. Probably power was lost.

If all else fails, call 1-847-391-8752, then push 5, between 7:00 am and 8:00 pm Central Standard Time.



Special Features

Here are a few features that make your Entertainment Machine more fun to use.

ADVANCED SURF

In addition to your normal channel listing, you can customize up to four different channel lists to fit different members of your family: movie channels for the kids, the sports channel for Dad, etc. See page 18 to set up surf channel lists and page 26 to customize the names of your channel lists.

AUTOMATIC TIME SET

You can have your Entertainment Machine read a signal sent over PBS broadcasts, and set the time and date automatically. See page 19.

CHANNEL LABELS

Instead of leaving it up to channel numbers to let you know what you're watching, you can choose labels for the various channels (HBO, CNN, ABC, etc.). You can also let the Entertainment Machine use the labels that some stations broadcast themselves. See Channel Labels, page 24.

SOURCE ID CUSTOMIZING

If you have a number of other pieces hooked up to your Entertainment Machine, instead of trying to remember the name of the jack you hooked them up to, just refer to page 25 to customize the name of the equipment as it shows up under the Source Menu or on your Channel/Time display.

PARENTAL CONTROL

Using a password-protection system, parents can block a channel that they don't want their kids to be watching. See page 27.

AUTO DEMO

To familiarize yourself with the layout of all your menu options and choices, Auto Demo can be turned on. It will cycle through all the menus, displaying them on your screen for a few seconds. See page 28.

Glossary

A complete list of definitions for words found in this guide.

- 75 OHM RF CABLE** The round cable that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.
- A/V CABLES** Audio/Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.
- A/V DEVICE** Any device that produces video or sound (VCR, DVD, cable box, or television).
- ADD** This function lets you add new channels to the list that you'll scroll through when using your remote.
- AMPLIFIER** An external machine that amplifies sound from a television, CD player, VCR, DVD or other A/V device.
- ANTENNA** The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.
- CAPTIONS** A form of subtitling that writes out the dialog for your program.
- CAPTIONS WHEN MUTED** Sets captioning to come on automatically when your volume is soft muted or muted.
- CONVERGENCE** This option lets you correct for color separation in your picture.
- DATA PORT** A jack for hooking up optional equipment that gives you access to the Internet through your TV.
- DAYLIGHT SAVINGS** "Observed" means that your Entertainment Machine will adjust your time setting at the appropriate times of the year. "Not Observed" will not. Set this depending on whether your viewing area uses Daylight Savings or not.
- DELETE** This function lets you remove channels that you don't watch from the list you'll scroll through.

Glossary (cont'd)

A complete list of definitions for words found in this guide.

- INPUT** Refers to the jack that receives a signal into the TV, VCR or other A/V device.
- JACK** A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jacks and the Audio/Video jacks that are color-coded.
- MODE** The mode determines the type of device (TV, VCR, Cable, Aux) that the remote is controlling.
- MONO SOUND** Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.
- OUTPUT** Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.
- PIP** This is the most common way to refer to the Picture-In-Picture (PIP) option.
- SECOND AUDIO PROGRAMMING/SAP** Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.
- SIGNAL** Picture and sound traveling through cable, or on the air, to your television screen.
- SOURCE** The term for the equipment that provides audio and video information to your Entertainment Machine. Antenna, VCR, DVD players, or Cable Boxes are examples of sources.
- STEREO SOUND** Stereo (stereophonic) sound refers to audio that's divided into right and left sides.
- SURF** This function creates a customized list of your favorite channels. You can access this group of channels by pushing the surf button on the remote.
- TEXT** Arbitrary text not related to the program.
- TUNER** Any device that picks up broadcast signals and turns them into picture and sound.

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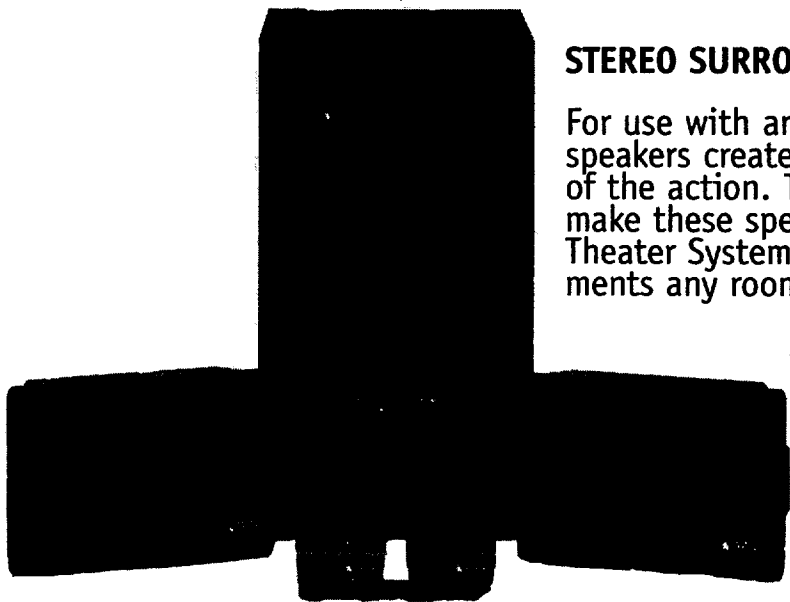
Find what you
want quickly.

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STEREO SURROUND SOUND SPEAKERS

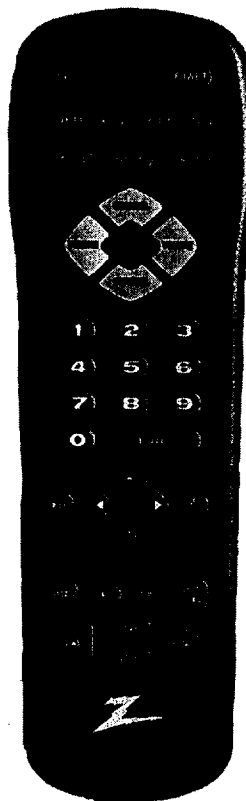
For use with any Surround Sound compatible TV. These speakers create a sound so real, it's as if you were part of the action. The convenient, space-saving shelf design make these speakers an ideal addition to any Home Theater System. The contemporary black finish complements any room.

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PLEASE ALLOW 3 - 4 WEEKS FOR DELIVERY

Your Zenith Limited Warranty

Direct-View Color TV Welcome into the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

ZENITH RESPONSIBILITY

- Service Labor** During a period of 90 days from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed as determined by Zenith, as a result of manufacturing defects.
- Parts** New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.
- Home Service** Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)
- Not Covered** This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

OWNER'S RESPONSIBILITY

- Effective Warranty Date** Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.
- Operating Guide** Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.
- Carry-In Service** Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.
- Antenna** Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.
- Important** Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.
- Warranty Service** For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance And Troubleshooting" in your operating guide. You might avoid a service call.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THE PRODUCT.

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PTV/Computer	Will accept UPS Shipments
801 E. Roosevelt Rd	201 James Record Rd.
Lombard, IL 60148	Building 4
(630)705-2830	Huntsville, AL 35824
	(205) 461-8583

ZENITH ELECTRONICS CORPORATION
 Zenith Response Center
 1000 Milwaukee Avenue
 Glenview, IL 60025-2493
 Telephone (847)391-8752
 Mon-Fri, 7:00 a.m.-8:00 p.m. CST
www.zenith.com

Additional Zenith Picture Tube Protection Plan Available

Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new Entertainment Machine. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your Entertainment Machine in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.



Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (847) 391-8757.