

zenith

thanks for
choosing zenith
let's watch tv

LIBRARY:

Received _____

Copied _____

Entered _____

LIS

NRPDS

Received _____

Scanned _____

Batch # _____

2/17/98
2/17/98
98020604



hook up directory

**RECORD YOUR MODEL NUMBER
(Now, while you can see it)**

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:

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.

Hook-Up Directory

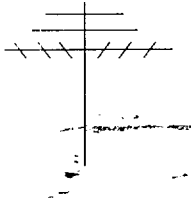
IMPORTANT!!

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

This page will direct you to which page to go to for proper hook-up of your Entertainment Machine.

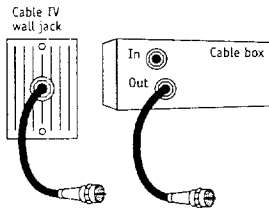
Antenna only

If you are using an antenna and no other equipment, go to page 4



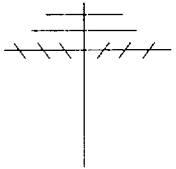
Cable only

If you have cable and no other equipment, go to page 5



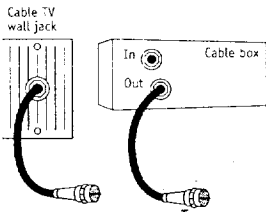
Antenna with VCR

If you are using an antenna and have a VCR, go to page 6



Cable and VCR

If you have cable and a VCR, go to page 7

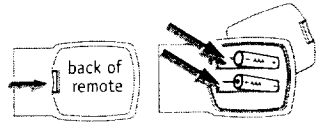


Feeling brave? If you just want some general hook-up information about customizing your own set-up, then skip to page 8.

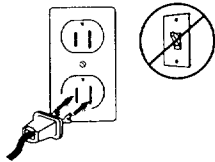
Hook Up Your Antenna to the TV

Connect off-air antenna your Entertainment Machine

- 1 Hook up your Entertainment Machine.
- 2 Remove the back of the remote and put in two AAA batteries.



- 3 Plug in your TV. Do not plug it into a switched outlet.



- 4 Go to page 8 to Auto Program your Entertainment Machine.



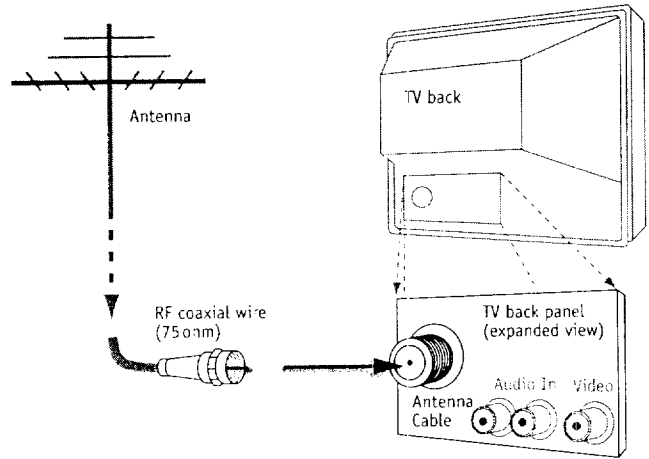
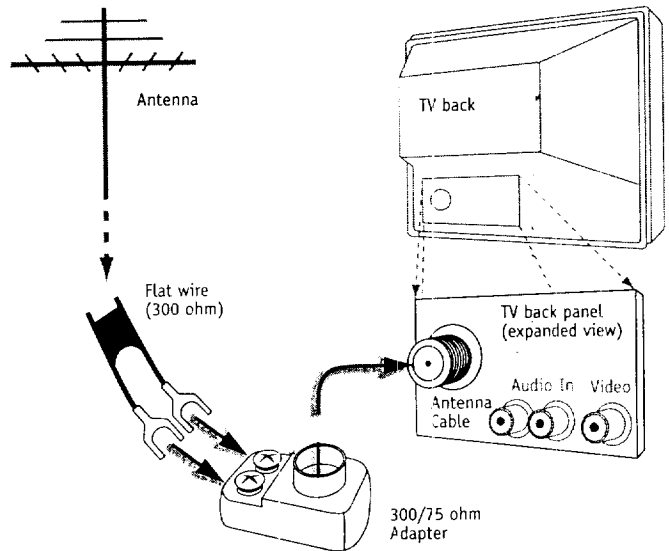
If you have a 75 ohm RF cable, then you don't need any adapters!



Remember, when screwing RF cables onto jacks, clockwise tightens, and counter-clockwise loosens.



A 300 to 75 ohm adapter is not included with your Zenith Entertainment Machine.



Mini glossary

75 OHM RF CABLE

The wire 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.

300 TO 75 OHM ADAPTER

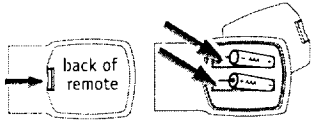
A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

Hook Up Your Cable (CATV) to the TV

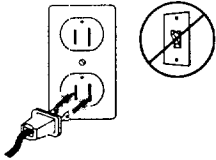
Connect cable to your Entertainment Machine

1 Hook up your Entertainment Machine.

2 Remove the back of the remote and put in two AAA batteries.



3 Plug in your TV. Do not plug it into a switched outlet. Your Entertainment Machine is designed to operate on household current, 120-volt 60 Hertz AC. Do not attempt to operate it on DC Current.



4 Go to page 8 to Auto Program your Entertainment Machine.



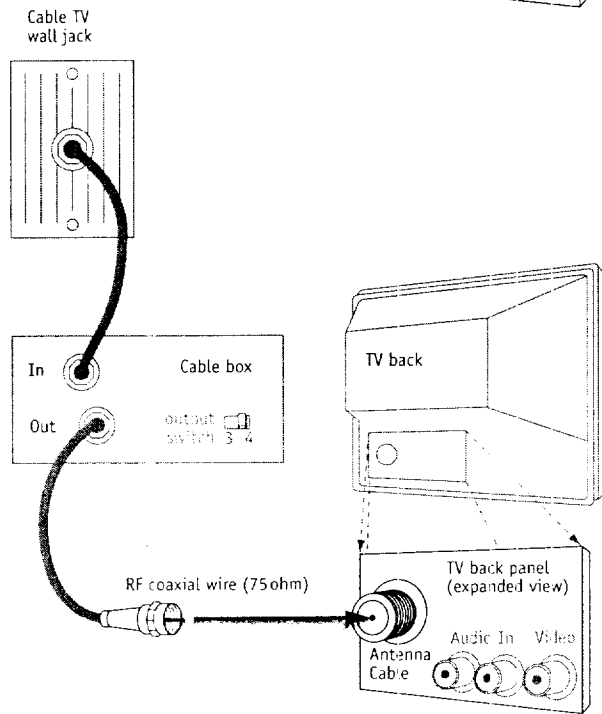
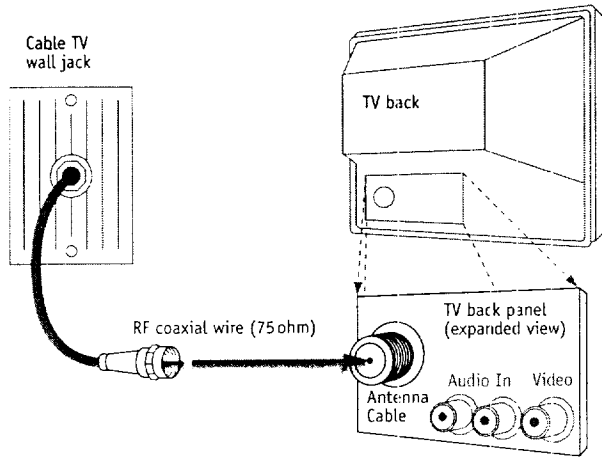
If you're using a cable box, leave your TV on channel 3 or 4 and use your cable box to change channels.



Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens



If you're using a cable box, Auto Program might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!



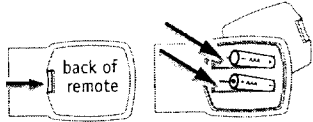
Mini glossary

CABLE SERVICE The wire that supplies all your cable TV (CATV) stations.

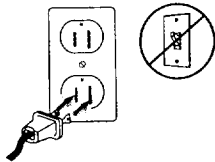
Hook Up Antenna and VCR to your TV

-Connect your off-air antenna and VCR to your Entertainment Machine.

- 1** Hook up your Entertainment Machine.
- 2** Remove the back of the remote and put in two AAA batteries.



- 3** Plug in your TV. Do not plug it into a switched outlet.



- 4** Go to page 8 to Auto Program your Entertainment Machine.



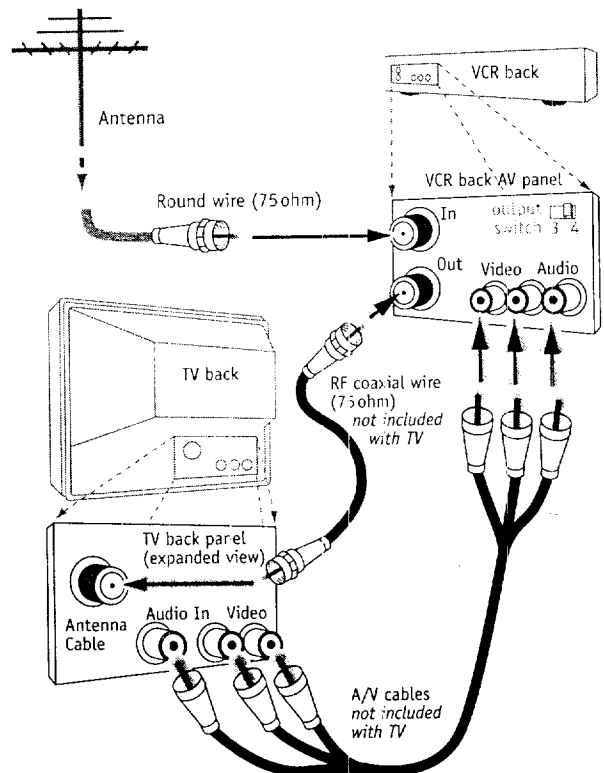
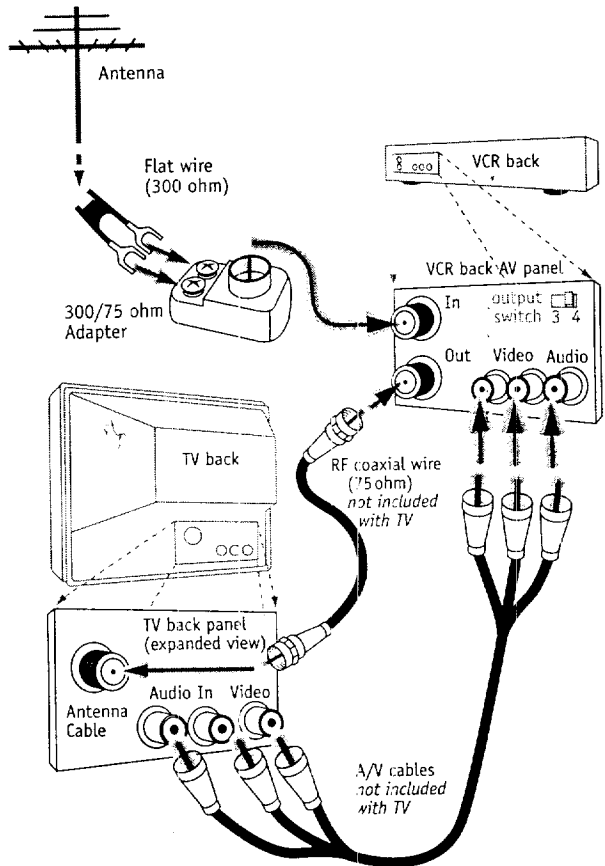
Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens. (Righty tighty, lefty loosey.)



No A/V cables are included with your Zenith Entertainment Machine.



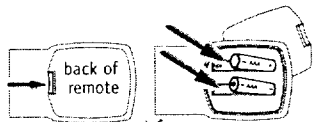
Without A/V cables, most VCRs will not play videocassettes in stereo sound.



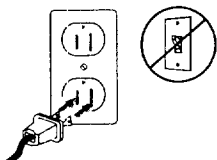
Hook Up Your Cable (CATV) and VCR

1 Hook up your Entertainment Machine.


2 Remove the back of the remote and put in two AAA batteries.





3 Plug in your TV. Do not plug it into a switched outlet.



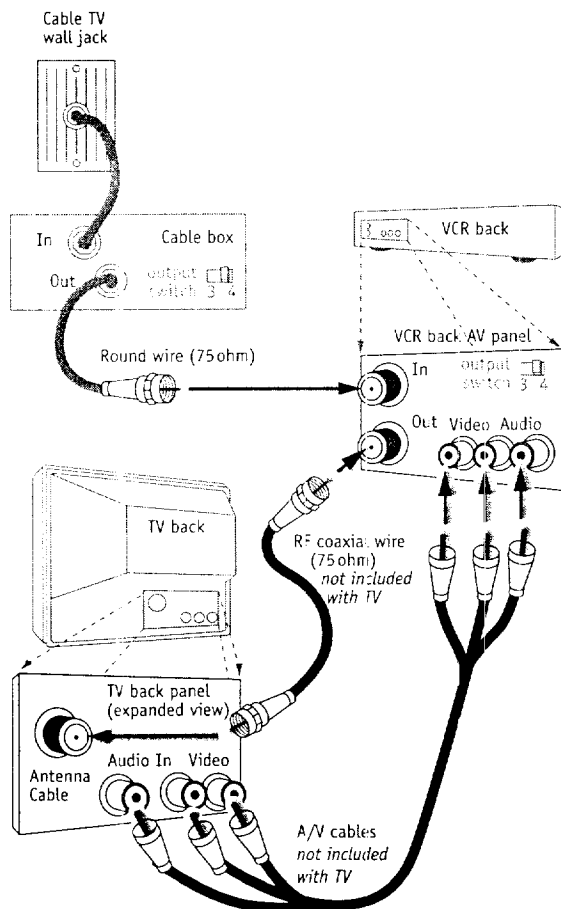
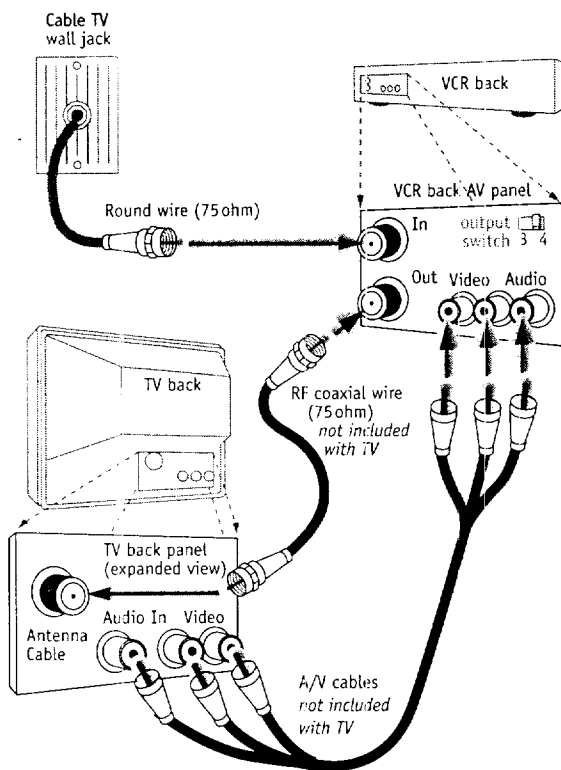
4 Go to page 8 to Auto Program your Entertainment Machine.

 Leave your VCR and your television tuned to channel three and use the cable box to change channels.

 Remember, when screwing in RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

 No A/V cables are included with your Entertainment Machine. Without A/V cables, most VCRs will not play videocassettes in stereo sound.

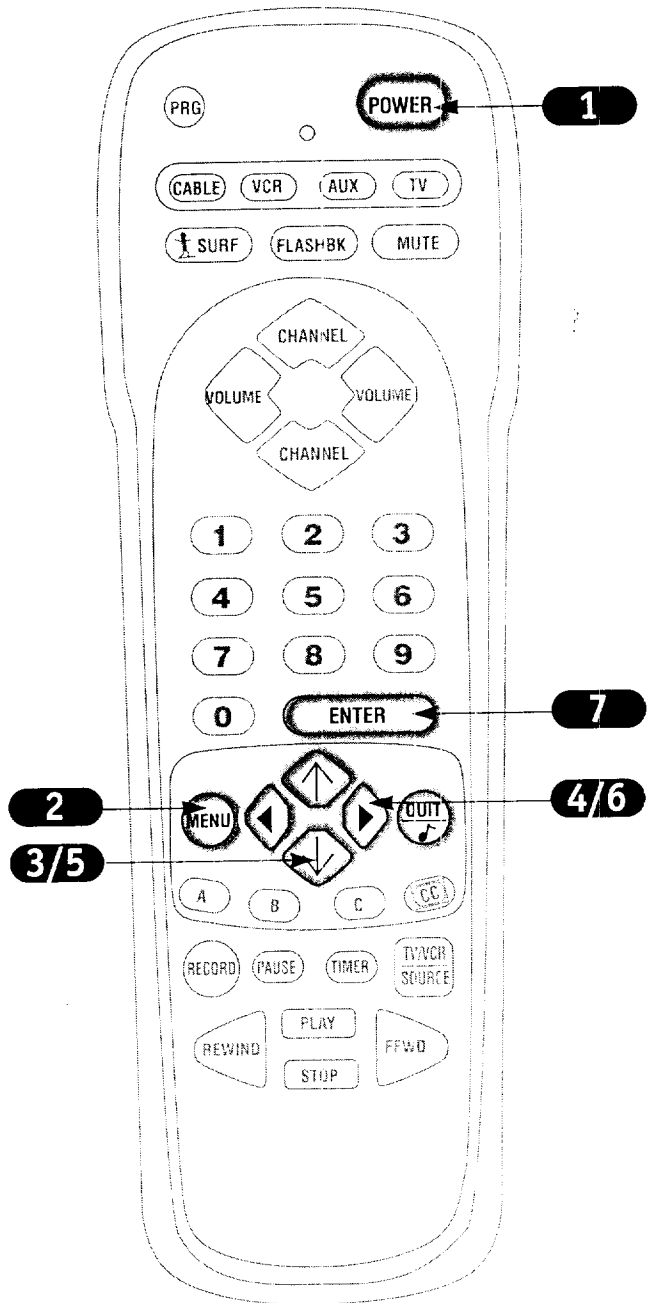
Connect your VCR and Cable to your Entertainment Machine.



Auto Program

Use Auto Program to automatically find and store all of the stations available in your area.

- 1** With the remote control in hand, press the POWER key to turn on your Entertainment Machine.
- 2** Press the MENU key so the Setup menu appears.
- 3** Using the UP/DOWN arrows on the remote control, select Auto Program on your screen.
- 4** Press a RIGHT or LEFT arrow to reach the Auto Program screen.
- 5** Using the UP/DOWN arrows, choose either Cable TV or Off-Air Antenna on your screen.
- 6** Press a RIGHT or LEFT arrow to begin Auto Program.
- 7** Press ENTER or QUIT to return to TV viewing.

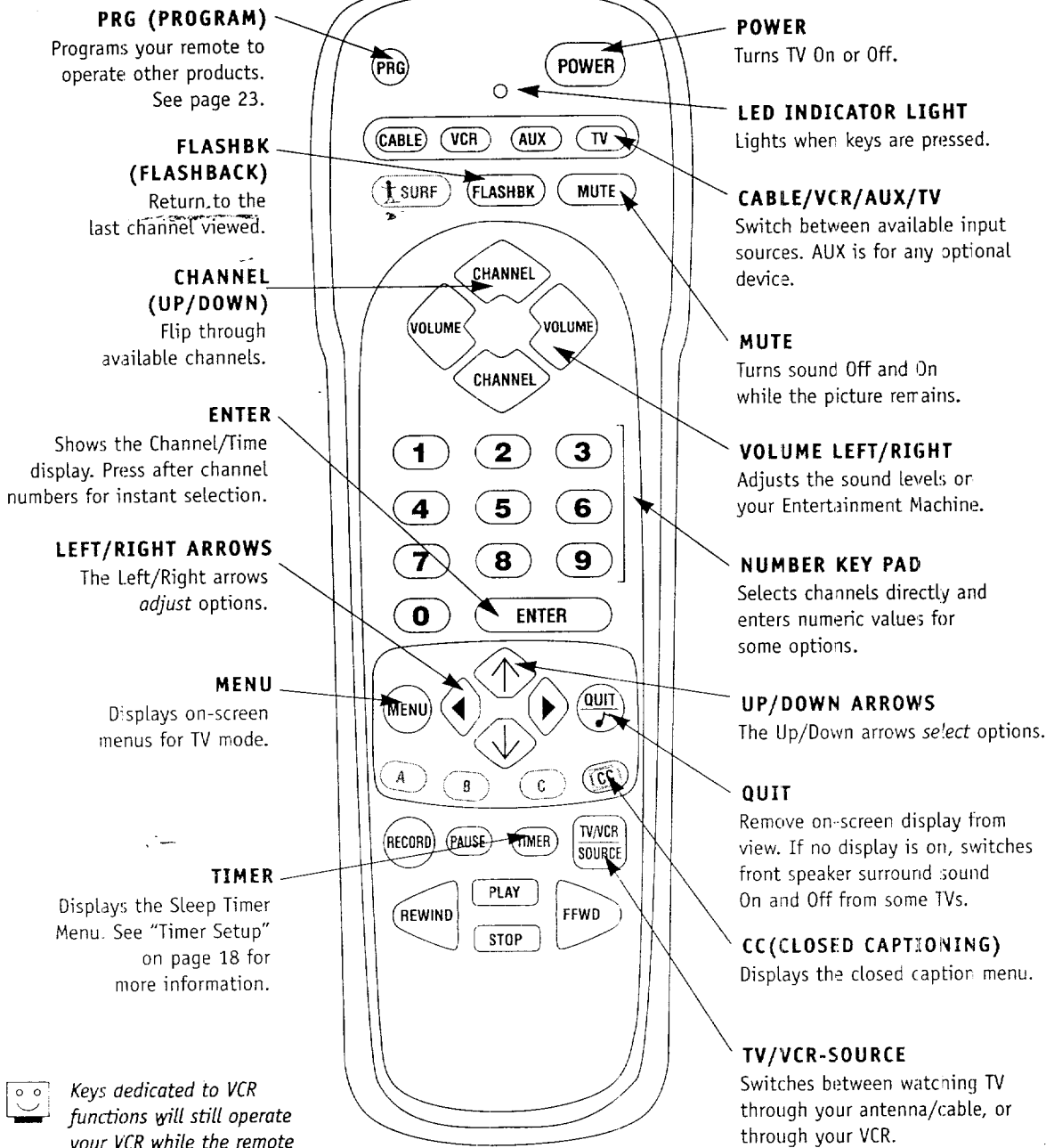



Mini glossary


AUTO PROGRAM Auto Program is how your Entertainment Machine finds all the channels available in your area and stores them in memory.

Button Functions on your Remote

A quick list of all the buttons on your remote and what they do.



 Keys dedicated to VCR functions will still operate your VCR while the remote is in TV mode.

 Grey keys indicate that they may not function on your model of TV.

remote control part number
MBR3447

An example of using the panel on the front of your Entertainment Machine.

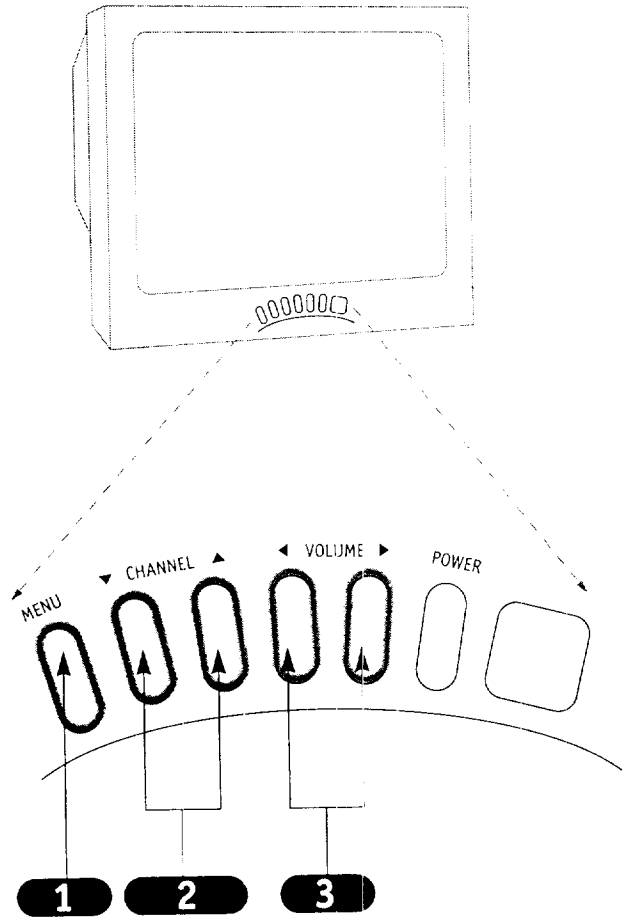
Front Panel Diagram

Here's an example of how to use the front panel to work with menus:

- 1** Access the Setup Menu by pressing MENU on the front panel.
- 2** Using the CHANNEL Up/Down keys, select Language on your screen.
- 3** Press the VOLUME Right/Left arrows to adjust the language you want your on-screen menus to appear in.
- 4** Repeat the above steps for the other options in the Setup and Video menus.
- 5** When finished, wait ten seconds and the menus will disappear.



Without a remote, you may not be able to use all the options in your menus, such as those that require the NUMBER key pad on the remote.



Basic Television Operation

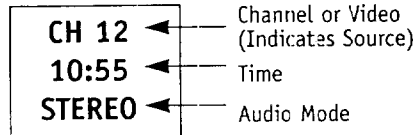
Introducing you to the basics of your Entertainment Machine.

Source

On some models A/V input is designated as a channel that is one below the lowest/one above the highest. You'll have to use the Channel Up/Down buttons to access it. The Time/Channel display will read "Video" in place of a channel number.

Cable/Antenna Input: This setting allows you to change cable or antenna channels and to 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 Time/Channel 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.

Channel Changing

CHANNEL UP/DOWN arrows: Use these arrows to change the channels. Auto Program will have found all channels available to you.

NUMBER Keypad: To skip to any channel, enter the number of the channel using the NUMBER key pad, then press ENTER.

FLASHBACK: To instantly return to the last channel viewed, press FLASHBACK.

Audio

Volume Right/Left: To adjust the volume level, use the volume Right/Left arrows. To silence your TV instantly, press MUTE. To get the sound back, press MUTE again.



While some mono models (A19A02D and A25A02D) do not have A/V inputs, you can still use a VCR. Just turn to page 6 to learn how to hook up your antenna and VCR.

Help on combining your Entertainment Machine with more equipment.

Basic Television Operation (cont'd)

There are a number of ways you can choose to integrate your Entertainment Machine with the rest of your equipment. Channels can be changed using the television, the VCR, or the cable box, with advantages to each.

USING THE TELEVISION AS THE TUNER preserves all your channel labels (not available on some models). It also reduces the number of keys on the remote control you need to worry about. (One device, one remote to learn.)

USING THE VCR AS THE TUNER has the advantage of simplifying the recording process. If the VCR is tuned to channel seven, then the VCR will record channel seven.

USING THE CABLE BOX (if you have one) to change the stations sometimes has an advantage, too, especially if your cable provider requires you to use their cable box to descramble their stations.

Setting Up a Tuner

- 1** Based on the advantages listed above, decide what device you want to use as the tuner.
- 2** Connect the antenna or cable source to the input of your tuner. (If you chose your television as the tuner, then you're done. Go watch your Entertainment Machine.)
- 3** Connect the output of your tuner to the input of the next device.
- 4** If you used A/V cables for step 3, set the "next device" to Video input. If you used an RF coaxial cable in step 3, then tune the "next device" to match the output channel of your tuner (usually channel 3 or 4).
- 5** Repeat steps 3 and 4 until you reach your Entertainment Machine. Then enjoy!

Mini glossary

- TUNER** The television, VCR, or cable box that you choose to change channels with.
- A/V CABLES** Audio/Video cables. Three cables bunched together—right audio (red), left audio (white), and video (yellow).
- A/V DEVICE** Any device that produces video or sound (VCR, DVD, cable box, or television).

Setup Menu

Descriptions of the menu options found in the Setup Menu.

Function	What it is for	Go to page
Auto Program	Automatically finds and stores active channels to flip through using Channel Up/Down.	9
Ch. Add/Del	Manually pick and choose which active channels will appear when flipping through using Channel Up/Down.	14
Clock Set	Sets the current time on your Entertainment Machine.	15
Timer Setup	<p>Opens menu for the following functions:</p> <ul style="list-style-type: none"> • Turns the Sleep Timer on or off. • Selects an automatic On Time for your Entertainment Machine. • Selects an automatic Off Time for shut-down. • On/Off timer controls automatic power on and power off. <p>Must be set to On for above functions to work.</p>	16
Captions/Text	Displays closed captions or text when available. Options are Off, Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, and Text 4.	17
Audio Mode/	Switches your sound between Stereo (separate sound on left and right speakers) and Mono (same sound on both speakers).	18
Language	Selects language for on-screen menus. Your options are English, Spanish, or French.	19

Setup Menu

AutoProgram

Ch. Add/Del

Clock Set

4:34 PM

Timer Setup

Captions/Text

Language

This is an example of what on-screen menus look like.



In video mode, only Clock Set, Timer Setup, Caption/Text and Language will appear. To view all menus, switch to Cable/Antenna input.

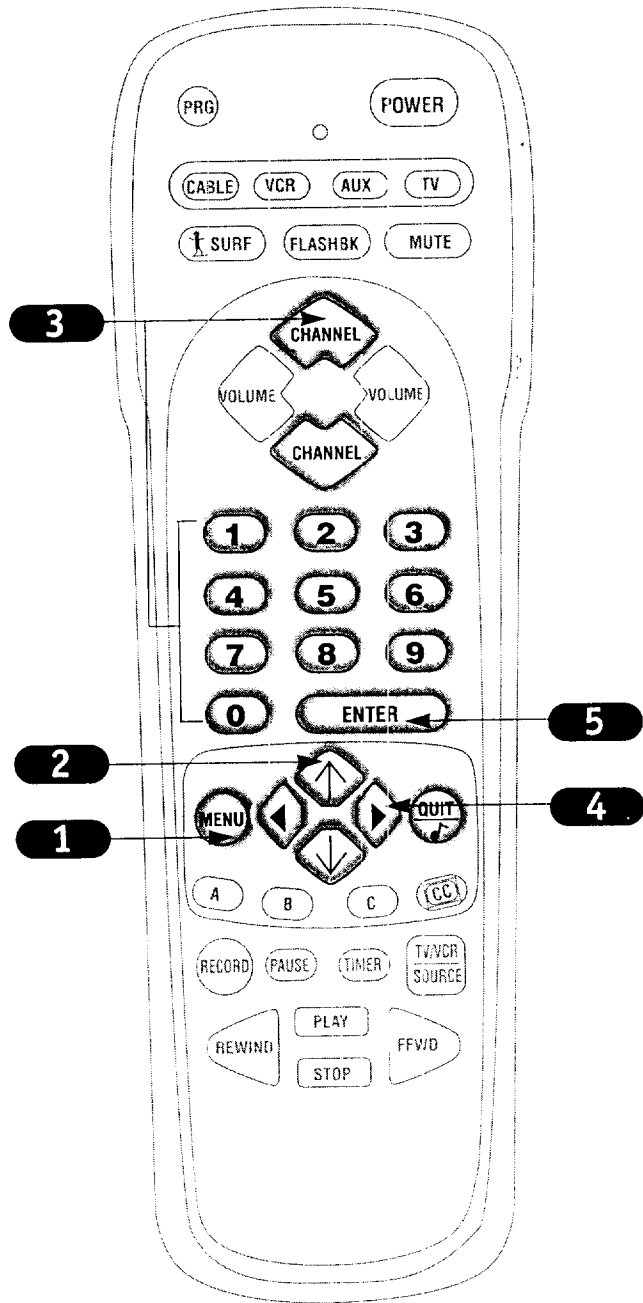
Setting Ch. Add/Del

Customize your channel selection.

- 1** Press the MENU key on the remote so the Setup menu appears.
- 2** Select the Ch. Add/Delete menu using the UP/DOWN arrows.
- 3** Using either the NUMBER key pad or the CHANNEL UP/DOWN arrows on the remote, select a channel. (If adding a deleted channel, you will need to use the number pad.)
- 4** Using the RIGHT/LEFT arrows, pick whether that channel is Added or Deleted.
- 5** To continue, select another channel and repeat step 4. If you are finished, press ENTER or QUIT to return to TV viewing.



If you delete a channel, it isn't gone for good. Just select it using the NUMBER key pad on the remote, or add it later.



Mini glossary

- 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.

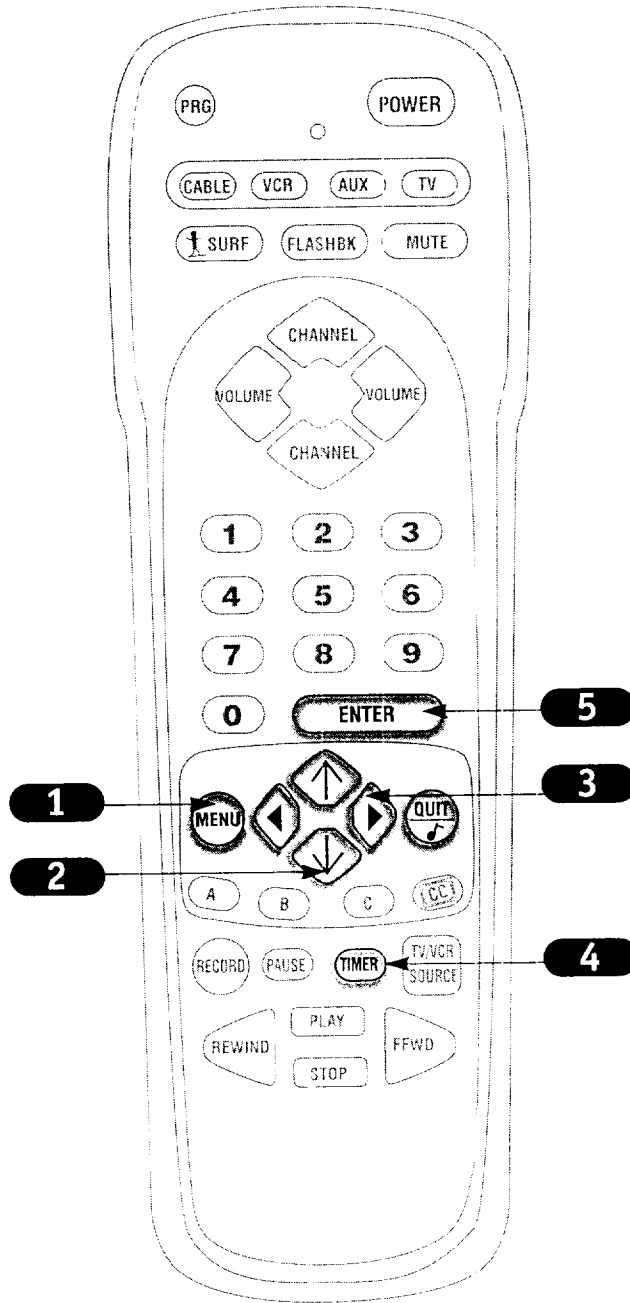
Clock Set

Set the clock on your Entertainment Machine.

- 1** Press the MENU key on the remote control so the setup menu appears.
- 2** Using the UP/DOWN arrows on the remote control, select Clock Set on your screen.
- 3** Press a RIGHT or LEFT arrow to adjust the time.
- 4** Press the TIMER button to select AM or PM.
- 5** Press ENTER or QUIT to return to TV viewing.



You can use the NUMBER pad to simply type in the time (AM or PM is still selected with the Timer key).



Timer

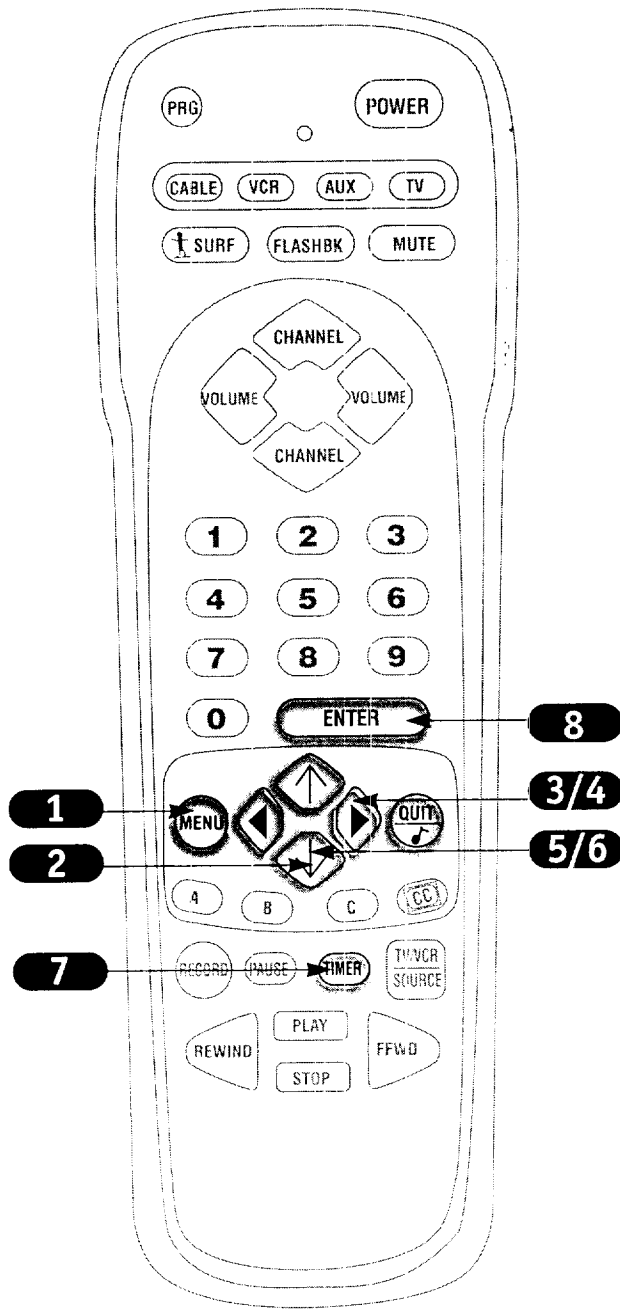
Automatically turn your Entertainment Machine on or off.

- 1** Press the MENU key on the remote control so the Setup 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 Setup screen will appear.
- 4** Sleep Timer: Use the RIGHT/LEFT arrows to adjust the length of time until the TV shuts down (select a countdown from ten minutes to four hours).

At this point, continue to step six to set the On Time, or press ENTER or QUIT to return to TV viewing.
- 5** On Time: Using the UP/DOWN arrows on the remote control, select On Time on your screen.
- 6** Press a RIGHT or LEFT arrow to adjust the time your TV will automatically turn on.
- 7** Press the TIMER button to select AM or PM.
- 8** Press ENTER or QUIT to return to TV viewing or continue programming by repeating the above steps for Off Time, and the On/Off Timer.



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



Captions and Text

- 1** Press the MENU key on the remote control so the Setup menu appears.
- 2** Using the UP/DOWN arrows on the remote control, select Captions/Text on your screen.
- 3** Press a RIGHT/LEFT arrow to choose any of the following options: Off, Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3 or Text 4.
- 4** Press ENTER or QUIT to return to TV viewing.



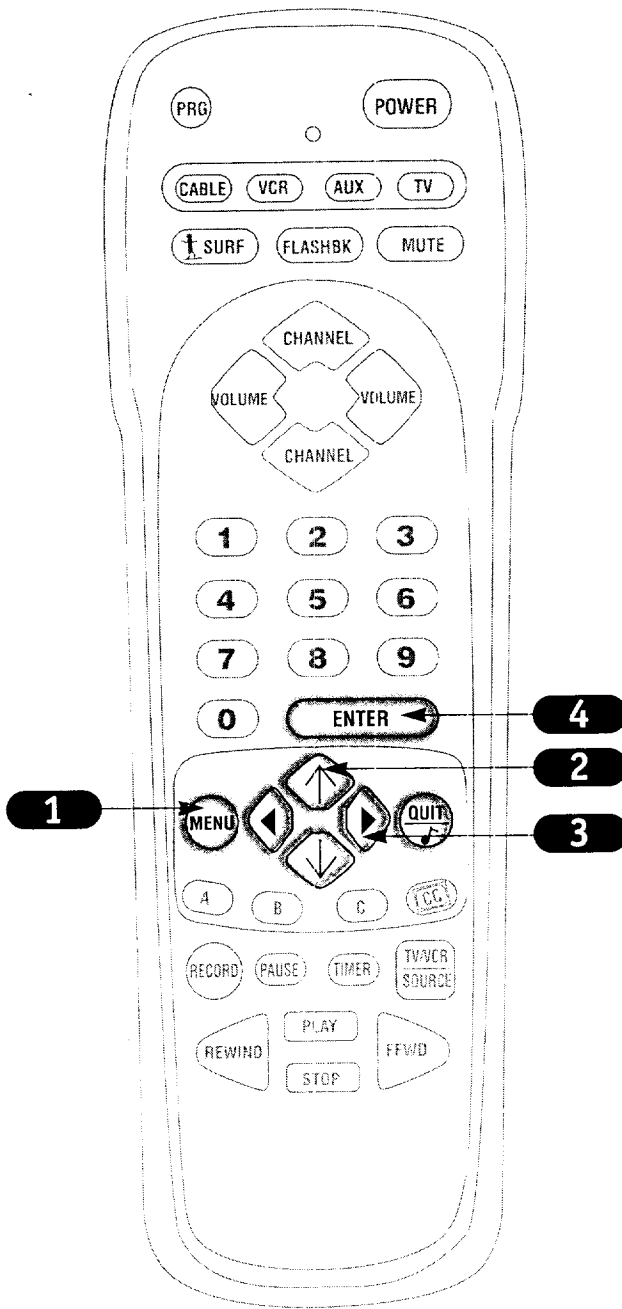
Captions come in handy when the television is on mute.



Standard closed captioning is available using the Caption 1 option.



Not all programming has closed captioning or text available.



Turn on closed captioning or text that appears at the bottom of your screen.

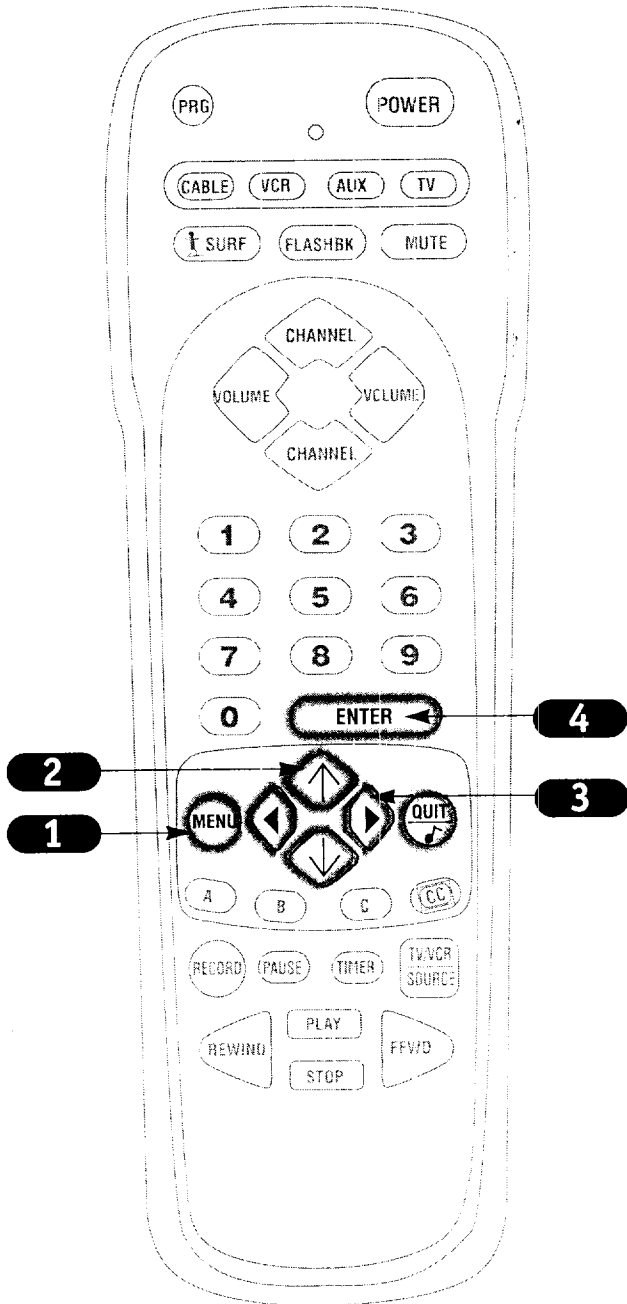
Audio Mode

Choose between stereo sound and mono sound.

- 1** Press the MENU key on the remote control so the Setup menu appears.
- 2** Using the UP/DOWN arrows on the remote control, select Audio Mode on your screen.
- 3** Press a RIGHT/LEFT arrow to select either of the following options: Stereo or Mono.
- 4** Press ENTER or QUIT to return to TV viewing.



Not all programming is broadcast in stereo sound.



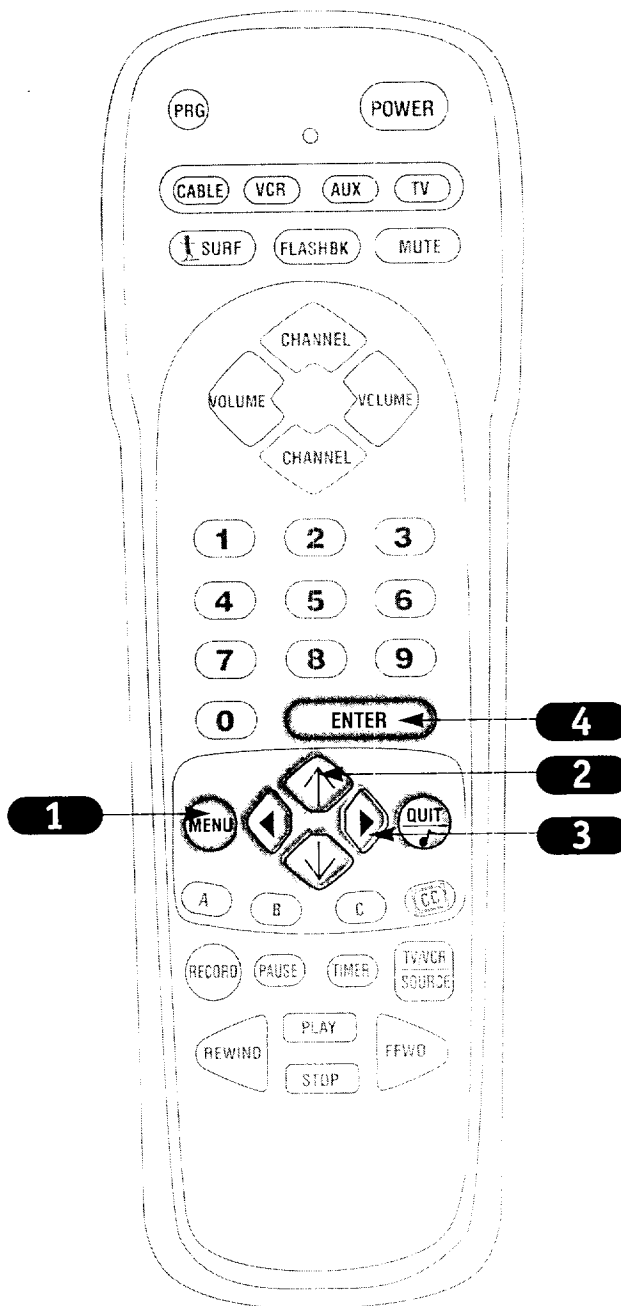
Mini glossary

- 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.

Language Options

Choose the language you want all the menus to appear in.

- 1** Press the MENU key on the remote control so the Setup menu appears.
- 2** Using the UP/DOWN arrows on the remote control, select Language on your screen.
- 3** Press a RIGHT/LEFT arrow to choose any of the following options: English, Spanish, or French.
- 4** Press ENTER or QUIT to return to regular TV viewing.



Video Menu

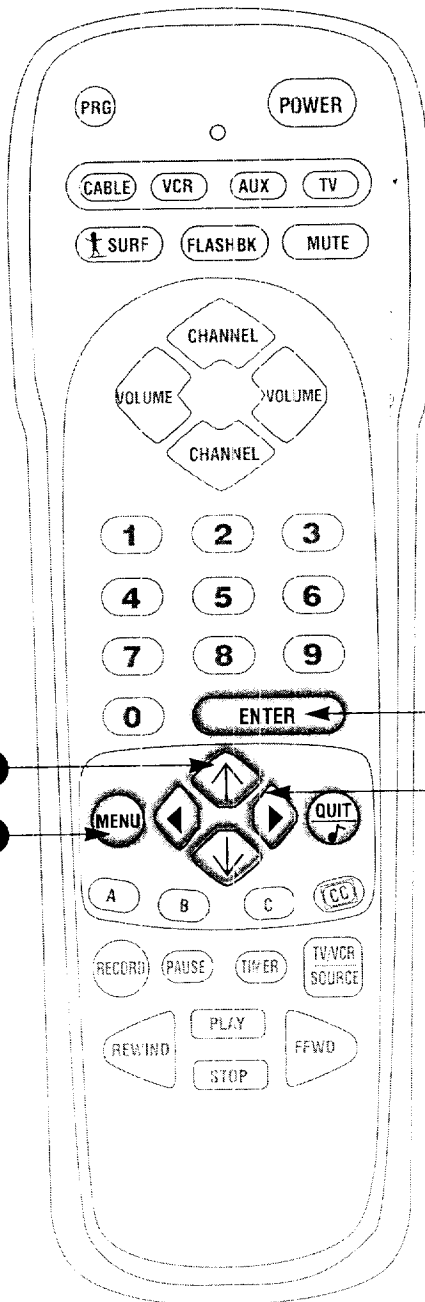
Use the Video menu to customize how your picture looks.

- 1** Press the MENU key twice and the Video menu will appear. Your options are:
 - **Contrast:** Adjusts the level of difference between white and black in the TV picture. The more contrast, the brighter the picture appears.
 - **Brightness:** Increases or decreases amount of white in the TV picture.
 - **Color:** Adjusts levels of all colors in the TV picture.
 - **Tint:** Balances between amounts of red and green in the TV picture.
 - **Sharpness:** Raises or lowers the definition of the TV picture. The lower the level, the softer the images will appear.
 - **Picture Preference:** Choose either Custom or Preset. Custom allows you to set the picture the way you want. Preset moves all the above options back to their original, factory-set levels.

- 2** Using the UP/DOWN arrows on the remote control, select Contrast on your screen.
- 3** Using the RIGHT/LEFT arrows, adjust the contrast level to your preference.
- 4** Press ENTER, QUIT or MENU one more time to return to TV viewing, or repeat from step two to set the other menu options.
- 5** Using the UP/DOWN arrows, select Picture Preference on your screen.
- 6** Using the RIGHT/LEFT arrows, choose either the original settings with Preset, or use your own settings with Custom.



Someone left the picture looking terrible? Just choose the Preset option in Picture Preference to quickly reset the levels.



Programming the Remote

1 The device you want to program should be off.

2 On the chart on page 27, 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. Use a small object. When the indicator light turns on, you can release the button.

4 Push the button with the name of device you're programming (VCR, CABLE, AUX, TV).

5 Using the number pad, enter the three digit code you found on page 27.

6 Press ENTER and save the code.

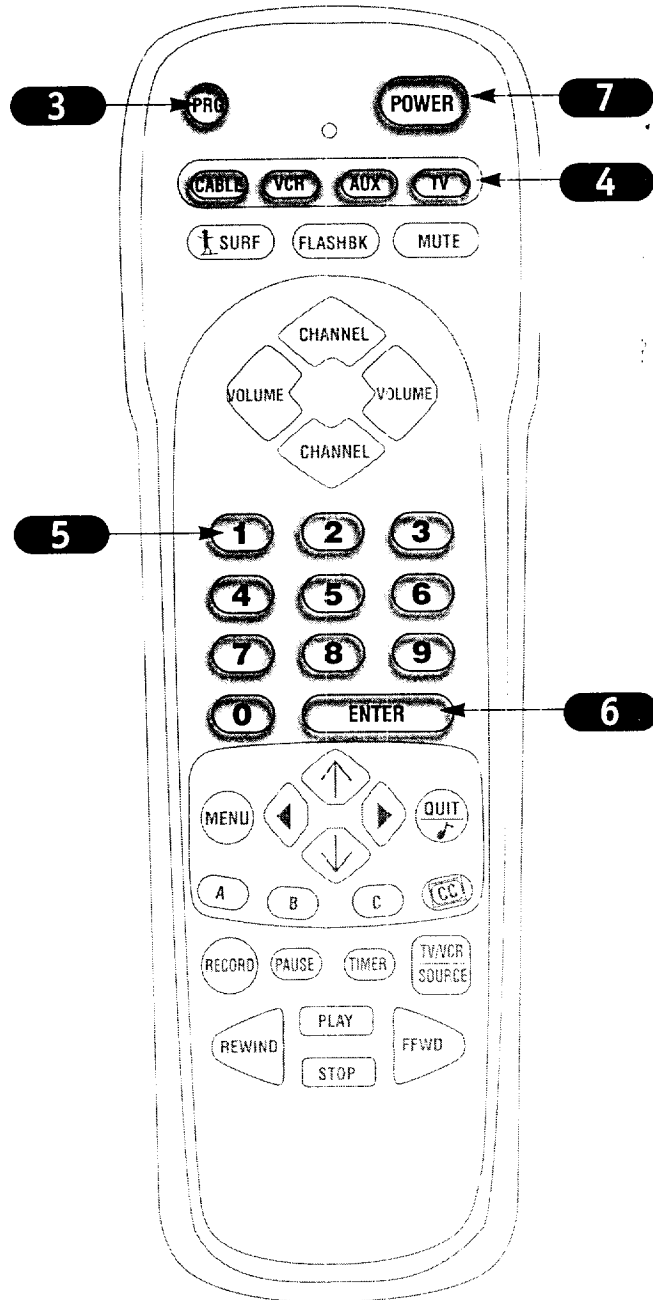
7 Aim the remote at the device and push the POWER button. It should turn on. If not, try the other codes listed and continue from step three.



Programming your Zenith remote will allow you to use one remote to work up to 7 different things.



Not all devices will work with your Zenith remote control.



Program your remote to work with a vast range of brand name devices.

Amplifier Volume Override

Control the volume on your home audio system without changing modes.

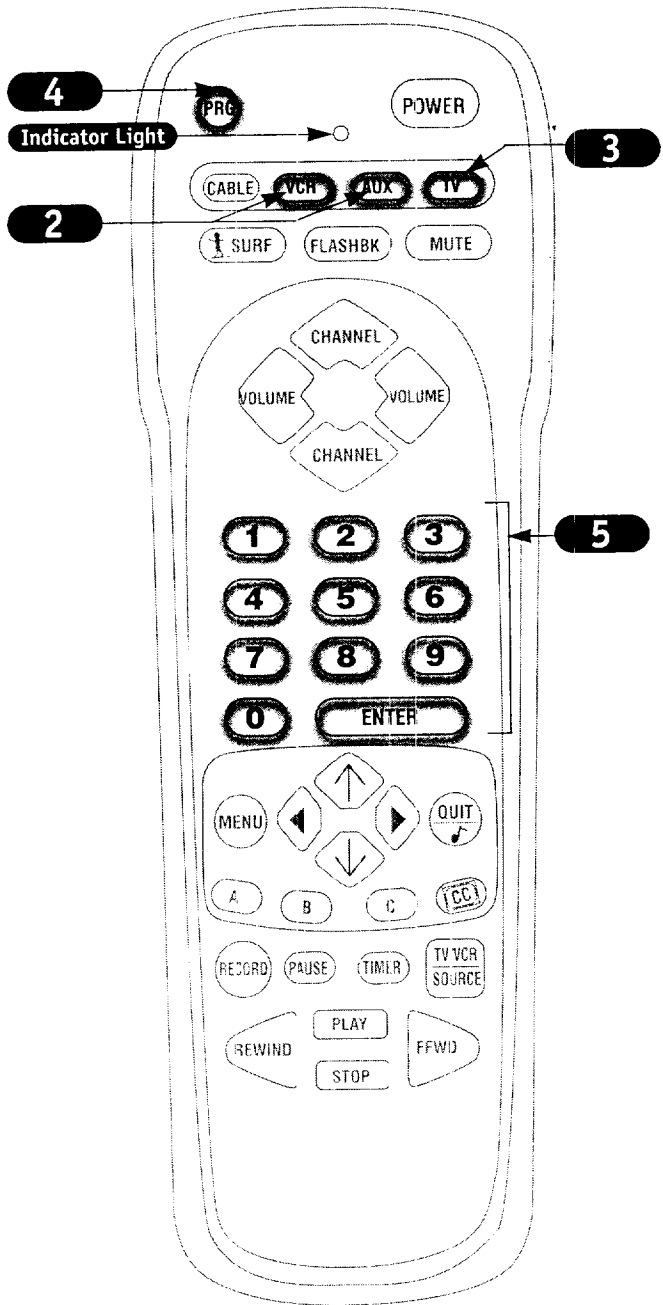
- 1** Find the code that operates your amplifier. Test it to make sure it's the correct one by following the procedure in the "Programming Your Remote" page.
- 2** Program your audio system into the CABLE or AUX mode.
- 3** Select the mode in which you want volume to appear (e.g. TV).
- 4** Press and hold PRG on your remote until the indicator light stays lit.
- 5** Press 4-9-9; then ENTER on the remote. The indicator light will flash three times if code is accepted.
- 6** Audio system volume/mute now appears in the mode selected.



The 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.



AUX+1, AUX+2, AUX+3

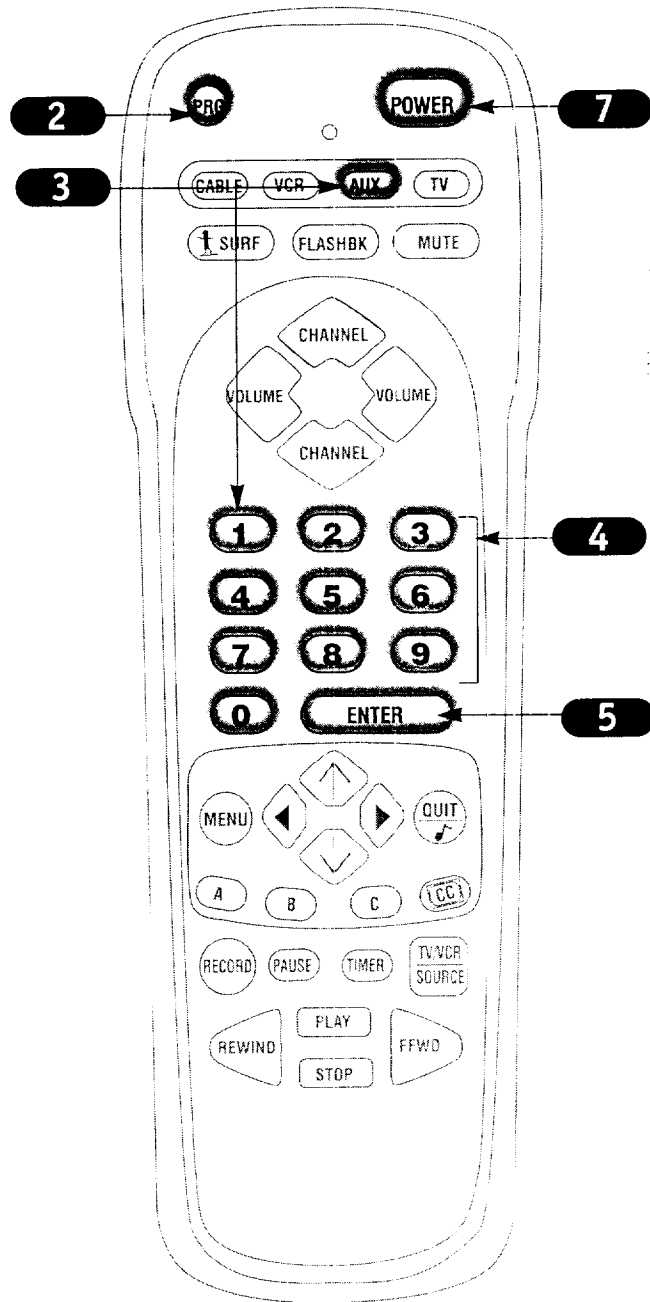
- 1** Refer to the chart on page 25 to find the type and brand name of the device you're programming.
- 2** Press and hold the PRG key until the indicator light turns on.
- 3** Press the AUX key and the 1 on the NUMBER key pad at the same time (for AUX.+1).
- 4** Using the NUMBER key pad, enter the three-digit code for the device you've selected.
- 5** Press ENTER to save the code.
- 6** Aim the remote at the device and press POWER. It should turn off.
- 7** Repeat the steps for AUX+2, and AUX+3.



Programming your Zenith remote will allow you to use one remote to work up to 7 different things.



Some devices may not work with your Zenith remote control.



Control up to seven different devices with your remote!

Remote Control Auto-Find

Use the remote control to search all possible codes.

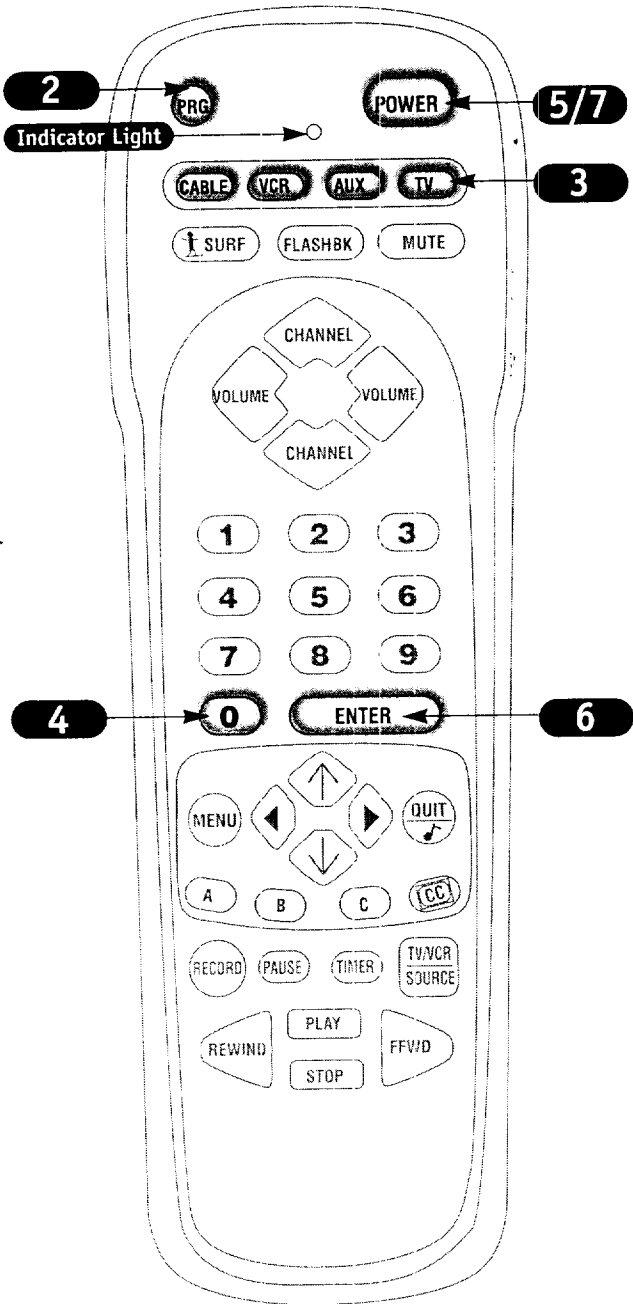
- 1** Turn on the device you're programming for the remote control.
- 2** Press and hold the PRG key until the indicator light turns on.
- 3** Press the key for the device you are trying to program (CABLE, VCR, AUX, TV)
- 4** Type the code 0-0-0 (zero-zero-zero), then press the ENTER key right away.
- 5** Aim the remote at the correct device and push the POWER button. Allow a second to pass, then push the POWER button again. Repeat until the device turns off.
- 6** Push ENTER to save the code.
- 7** Press POWER to turn the device back on.



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



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



Programming Codes

Find the codes you need to program your remote. On this page: TVs and VCRs.

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

Programming Codes

Find the codes you need to program your remote.

On this page:
Cable, Satellite, Video Disc Players, CD Players, Tape Decks and Audio Tuners and Amplifiers.

Cable Satellite

Allegro	358 362	Kale Vision	335	RCA DSS	373	Unika	348 362
Allegro A/B Switch	361	Macom	314 321	Regency	329	United Satellite . .	344
Gemini	305 331 338	Magnavox	334	Samsung	335	Universal	358 362
General Electric . . .	367	NSC	335 339 368 369 370	Scientific Atlanta	316 323 336 364	Vid Tech	340
General Instrument	304 305 306 307 308 309 310 318	Oak	311 332 342	Sprucer	313	Video Way	349
Hamlin	302 303 345 365 366	Panasonic	313 320	Standard Comp . . .	335	Viewstar	354 355 372
Jerrold	304 307 308 309 310 318 360 363	Paragon	333	Stargate	379	Zenith	301 353 374
		Philips	347 350 352 354 355	Texscan	339 356 371	Zenith Satellite . .	312 328 330 351 378
		Pioneer	315 343	Tocom	317 318 346		

Video Disc Players

Pioneer	402 403	Sony	404
Sanyo	401	Zenith	401

Audio CD Players

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

Audio Tape Decks

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

Audio Tuners/Amps

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

Zenith Product Codes

A complete list of button functions for your remote control.

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 On/Off
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
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/ A	TV Seq Sound	VCR Quit	Cable Quit	AUX Clear
B	TV PIP	VCR+	Day Up	AUX Repeat-Side
C	TV PIP Swap	VCR Channel Map	Day Down	AUX Repeat-A-B
CC	TV PIP Freeze	VCR Search	Cable Pg Up	AUX Repeat-Chap
	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/D'sc
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



Some of the functions shown above may not be available on your TV (such as PIP).

Caring for
your
Entertainment
Machine.

Maintenance

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 Cabinet

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 TV before leaving.



If you unplug your Zenith Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier. See page 17.

Troubleshooting

Some quick and easy tips to fixing problems yourself.

SYMPTOMS	SOLUTIONS
Snowy picture and lousy sound.	<ul style="list-style-type: none"> • Check your antenna connection or location.
Multiple images or 'ghost shadows.'	<ul style="list-style-type: none"> • Check your antenna direction and/or location. • Make sure the wire from your antenna to your Entertainment Machine is properly connected.
Interference: Sharp lines across the screen and lousy 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 control. • 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?
No picture and lousy sound.	<ul style="list-style-type: none"> • Are you in TV or Cable tuning mode (See Auto Program on page 9), 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 — The thing is just DEAD!	<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, not your Entertainment Machine.
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 OFF in the Caption/Text menu. See page 19.
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 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.
Remote control doesn't work.	<ul style="list-style-type: none"> • Make sure the batteries are fresh and installed properly. • Check to see that the MBR (Multi Brand Remote available on some models) is in the right mode for your equipment.
Menu options won't change.	<ul style="list-style-type: none"> • Try unplugging the TV, waiting about five minutes, and then plugging it back in and trying again.



If all else fails, call 1.847.391.8752, extension 5, between 8:30 AM and 4:30 PM Central Standard Time.

Glossary

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

75 OHM RF CABLE	The wire that comes from an off-air antenna or cable service provider. The end looks like a hex-shaped nut with a wire sticking through the middle. It screws onto the threaded jack on the back of your TV.
300 TO 75 OHM ADAPTER	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.
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 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.
AUTO PROGRAM	Auto Program has your Entertainment Machine automatically find all the channels available in your area.
DELETE	This function lets you remove channels that you don't watch from the list you'll scroll through using your remote.
INPUT	Refers to the jack that receives a signal from a TV, VCR or other A/V device.

Glossary (cont'd)

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

JACK	A connection on the back of a TV, VCR, or any other A/V device.
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.
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.
STEREO SOUND	Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.
TUNER	Device that picks up the signal and turns them into picture and sound.

IndexFind what you
want quickly.

FEATURE	PAGE
Amplifier Volume Override	24
Antenna	4, 6
Audio Mode Menu	20
Auto Find	26
Auto Program	9
AUX+1, AUX+2, AUX+3	25
Basic Television Operation	13, 14
Batteries	4-7, 31
Button Functions	10
Cable	5,7
Captions and Text Menu	19
Ch. Add/Del.	16
Clock Set.	17
Custom Hook-Up Information	8
Front Panel.	11, 12
Glossary.	32, 33
Hook-up Directory	3
Language Menu	21
Maintenance	30
Programming the Remote	23
Remote Control Auto-Find	26
Safety Information	2
Setup Menu	15
Timer	19
Troubleshooting	31
VCR	6, 7
Video Menu	22
Warranty	36

Recommended Audio/Video Accessories

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 complement any room.

CV5000 ONLY \$224.95 PLUS \$17.95 SHIPPING & HANDLING

REPLACEMENT REMOTE

Broken or lost remote? Perhaps you would just like the convenience of having a second remote on hand. Order your replacement remote, control direct from Zenith! To ensure that you receive the correct remote, have your television's model number ready when you call.

ONLY \$39.95 PLUS \$4.95 SHIPPING & HANDLING

UHF/VHF/FM INDOOR ANTENNA

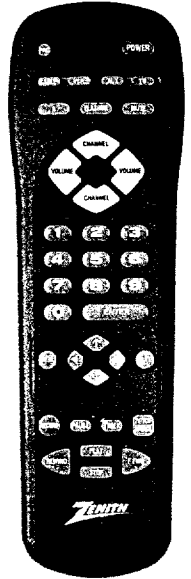
This UHF/VHF/FM indoor antenna provides sharp, clear sound and picture in a high-tech design. Perfect for use as a cable outage backup or to receive local programming not available with a Satellite System. Works with most TVs or audio devices and includes four feet of 75 ohm cable for easy hook-up.

AST475 ONLY \$24.95 PLUS \$4.95 SHIPPING & HANDLING

CORDLESS STEREO HEADPHONES

These cordless, lightweight headphones allow you to enjoy a private listening experience without disturbing others. The infrared technology delivers a virtually interference-free signal. Works with most TVs, VCRs or audio devices with a fixed audio output jack. Comes with optional microphone hookup. Soft cushioned ear pads for comfortable use. Perfect for the hard-of-hearing.

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zenith



Use Your Visa or MasterCard to Order

PLEASE ALLOW 3 - 4 WEEKS FOR DELIVERY

Your Zenith Warranty

Direct-View Color TV Welcome to 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 pay for service labor by a Zenith authorized service center when needed as a result of manufacturing defects.
- Part** New or remanufactured replacements for factory-defective parts will be serviced 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 installation. 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.

ZENITH CONSUMER SERVICE

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LG Electronics
235 Superior Blvd.
Mississauga Ontario Canada L5T-2L6
tel: (905) 795-6240
fax: (905) 670-2379

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.