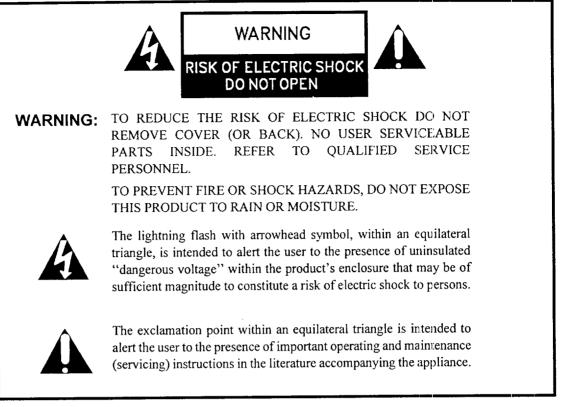


¡Aviso para nuestros clientes de habla hispana: consulte la información que aparece al final de este manual! Direct-View Color TV Closed Captions MTS Stereo Audio Surround Sound



Return the Product Registration Card, and your TV could be free!



## Safety Tips

Refer to the "Safety Tips" booklet that came with your product for important safety considerations.

### Note to Cable TV System Installer

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the NEC that 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.

### **Power-Cord Polarization**

This product is equipped with a polarized alternatingcurrent line plug (a plug having one blade wider than the other.) This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

### 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.

# CONTENTS

INTRODUCTION	
Welcome ii	
Installation Considerations ii	
CONNECTIONS FOR YOUR TV	
Connection Center on Back of TV 1-1	
Other A/V Jacks on TV 1-1	
Step 1. Make Basic Connection to TV 1-2	
Step 2. Make VCR Connections to TV 1-3	
Step 3. Make Super-VHS VCR Connections to TV 1-4	
Step 4. Make A/V Connections to Auxiliary	
A/V Jacks (VIDEO 3 IN or S-VIDEO 2 IN)1-4	
Step 5. Make Surround Sound Connections to TV 1-4	
Step 6. Make External Speaker Connections to TV 1-5	
Step 7. Make Audio Connection to Stereo Amplifier 1-5	
THE FIRST TIME YOU OPERATE YOUR TV	
Step 1. Connect the Power	
Step 2. Select Your Viewing Source	
Step 3. Use Auto Program	
Step 4. Time Functions	
Step 5. Use Other Options	
REMOTE CONTROL MODEL SC2400	
Operation	
Installing Batteries	
REMOTE CONTROL MODEL MBR3420	
Operation	
Choose the Operating Mode 4-1	
TV Operations	
VCR Operations	
Cable-TV Operations	
Preparation for Use	
Installing Batteries 4-5	
REMOTE CONTROL MODEL MBR3430	
Operation	
Choose the Operating Mode	
TV Operations	
VCR Operations	
Cable-TV Operations	
Preparation for Use	
Programming Brand Codes	
TV, VCR and Cable-TV Operating Codes	
QUICK BEFERENCE TO ON-SCREEN MENUS	
Available Menus	
Summary of Menu Items	
Menu Operation Example	
SOURCE MENU	
SOURCE MENU Source Selection	
Source Selection	
500100 rachimedion	

SETUP MENU	
Auto Program	8-1
Ch. Add/Del	8-1
Ch. Labels	8-2
Tuning Band	8-3
Auto Tuning	8-3
Source ID.	8-3
Clock Set	8-4
Captions	8-4
AUDIO MENU	
Bass	9-1
Treble	
Balance	
Audio	
SEQ	
Surround	
	/ 1
VIDEO MENU	
Contrast	
Brightness 1	
Color 1	
Tint1	
Sharpness l	
Color Temp	
Video Filter 1	
Auto Flesh	
Picture Pref 1	0-1
PIP MENU	
Ch. Guide	1-1
Ch. Review	
PIP Source	
PIP Size	
PIP Color	
PIP Tint	
PIP OPERATION AND CONNECTIONS	
PIP Overview	2 1
Typical Connections	
How to Select Main Picture & PIP Source	
PIP Functions	
	2-4
MAINTENANCE AND TROUBLESHOOTING	
Caring for Your TV1	
Extended Absence 1	
TV Picture Interference 1	
Before Calling for Service	3-2
Product Registration Card Recommended Accessories For Your Television	

Recommended Accessories For Your Television Aviso para nuestros clientes de habla hispana Your Zenith Warranty

### HOW TO USE YOUR OPERATING GUIDE

THIS OPERATING GUIDE DESCRIBES A FAMILY OF TV MODELS. SOME MODELS HAVE FEATURES THAT ARE NOT PROVIDED ON OTHER MODELS, SUCH AS AUXILIARY JACKS OR TWO REMOTE CONTROLS. DIFFERENT CONTROL PANELS AND REMOTE CONTROLS MAY BE USED FROM MODEL-TO-MODEL. REFER TO THE APPLI-CABLE SECTIONS OF THIS OPERATING GUIDE FOR THE FEATURES AND ITEMS PROVIDED WITH YOUR TV.

# INTRODUCTION

### WELCOME

Welcome into the family of Zenith Color Television owners. This guide provides instructions on how to operate your new TV. It is supplemented by a booklet containing Safety Tips. We urge you to read these publications carefully so that you will receive full enjoyment from your new Zenith TV for many years to come.

Your new TV has been designed and built to give you the very best in quality, features and performance. There are thousands of Zenith authorized service centers throughout the U.S., Canada and Mexico who can attend promptly and effectively to ordinary service needs.

If you should have an unusual performance or service problem that cannot be satisfactorily resolved by your Zenith dealer or Zenith authorized service center, contact us at:

### **Zenith Electronics Corporation**

Customer Service Department 1000 Milwaukee Avenue Glenview, IL 60025-2493 Telephone: (847) 391-8752 Mon-Fri, 8:00 a.m. - 4:30 p.m. Central Time

Provide the model number, serial number, and date of purchase or original installation, with a full explanation of the problem and the service history. We will welcome the opportunity to look into your specific question or problem and to be of assistance in resolving it promptly.

The model and serial numbers of your new TV are located on the back of the TV cabinet. For your future convenience and protection, we suggest that you record these numbers here: Model No.

Serial No.\_\_\_\_

## INSTALLATION CONSIDERATIONS



### Before you install your TV...

**Ventilation** — Proper ventilation keeps your TV running cool. Air circulates through perforations in the back and bottom of the cabinet. Do not block these vents or you will shorten the life of your TV.



**Power Source** — Your TV is designed to operate on normal household current, 120 volt 60 Hertz AC. Do not attempt to operate it on DC current.



**Power Cord** — Your power cord has a polarized plug as required by Underwriters' Laboratories. It has one regular blade and one wide blade and fits only one way into a standard electrical outlet. If the blades will not enter either way, your outlet is

very old and non-standard. A new outlet should be installed by a qualified electrician.



Safe Operation — Your TV is manufactured and tested with your safety in mind. However, unusual stress caused by dropping or mishandling, exposure to flood, fire, rain or moisture, or accidental spilling of liquids into the TV, can result in potential electrical shock or fire hazards. If this happens, have your TV checked by a service technician before using it again. Please read and observe each safety point in the "Safety Tips" folder when installing and using your TV.

VIDEO GAMES AND OTHER FIXED

**PATTERN DISPLAY CAUTION** — If you use your TV for video games, teletext or other fixed displays, avoid setting the BRIGHTNESS control for an excessively bright picture. A bright, fixed pattern, if used for long periods of time, can result in a permanent imprint on the TV picture tube. You can reduce this possibility by alternating the use of the fixed pattern display with normal TV picture viewing, by turning down the CONTRAST control for sustained fixed pattern use, and by turning off the fixed pattern display when not in use.

**PLUGGING IN YOUR TV** — Be sure to plug your TV into an "unswitched" AC power source. The "switched" AC outlets found on some video equipment will not continue supplying power to the TV once the equipment is turned off. If the power to the TV is interrupted, you will have to reset the clock in the TV to the current time.

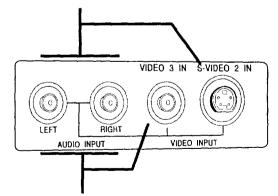
#### **CONNECTION CENTER ON BACK OF TV** ANT/CABLE 1 or ANT/CABLE 2 EXTERNAL AMP Standard phono jack connectors for output 75-ohm antenna-type connections to your TV. Attach your antenna, cable-TV line or to the customer's audio amplifier or VCR to either of these jacks. Terminals for connecting external speakers. SPEAKERS EXT/INT LOOP OUT TO EXT position: TV's speakers DECODER VARIABLE $\bigcirc$ are off. Use this output to route the AUDIO cable-TV signal back to the INT position: TV's speakers RIGHT LEFT decoder supplied by your are on. TO EXTERNAL AMP KR cable-TV system. SPEAKERS - $\mathcal{A}$ LOOP OUT ANT/CABLE 2 ANT/CABLE 1 Ð 19.1 TO DECODER SURROUND VIDEO 1 IN or **VIDEO 1 IN** VIDEO 2 IN AUDIO VIDEO VIDEO AIDIO SPEAKER $\sim$ **VIDEO 2 IN** . Terminal connectors for Baseband audio and video $\bigcirc$ $\bigcirc$ (( $\bigcirc$ 0 output to optional input from a VCR or surround sound speakers. other A/V component. Θ R R S-VIDEO 1 IN L R $\bigcirc$ $\bigcirc$ $\bigcirc$ 0 ò SURROUND SPKRS R L LOOP OUT S-VIDEO **VIDEO 1 LOOP OUT** Use these jacks to send the **S-VIDEO 1 IN** incoming audio and video signals Audio and video input (from VIDEO 1 IN) to another A/V from a Super-VHS VCR. component, such as a second VCR.

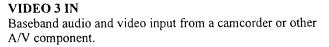
# OTHER A/V JACKS ON TV (Some Models)

If your TV is equipped with VIDEO 3 IN and S-VIDEO 2 IN input jacks, they are located behind the small door below the control panel on the front of the TV.

### S-VIDEO 2 IN

Audio and video input from a Super-VHS VCR.

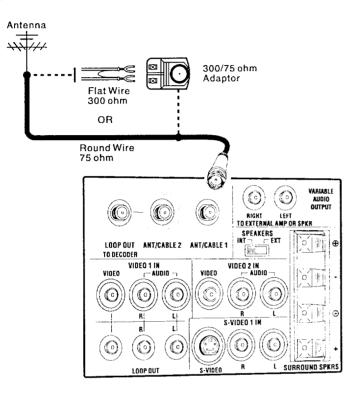


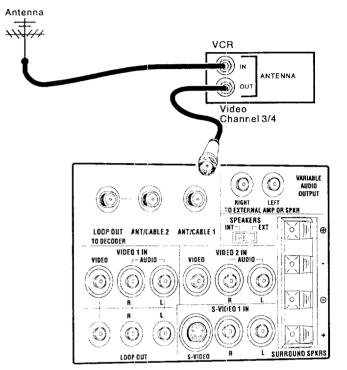


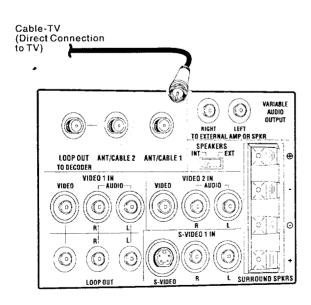
# STEP 1. MAKE BASIC CONNECTION TO TV

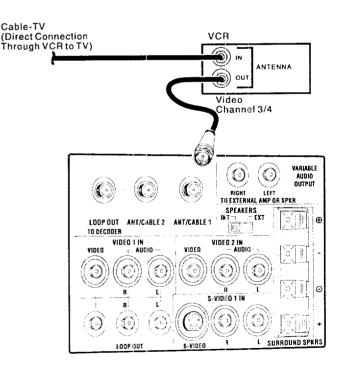
Select the hook up that best fits your needs. See the following diagrams.

**NOTE:** The antenna may be connected to the ANT/CABLE 2 jack, however, connecting to the ANT/CABLE 1 jack may produce a better picture in weak signal areas.



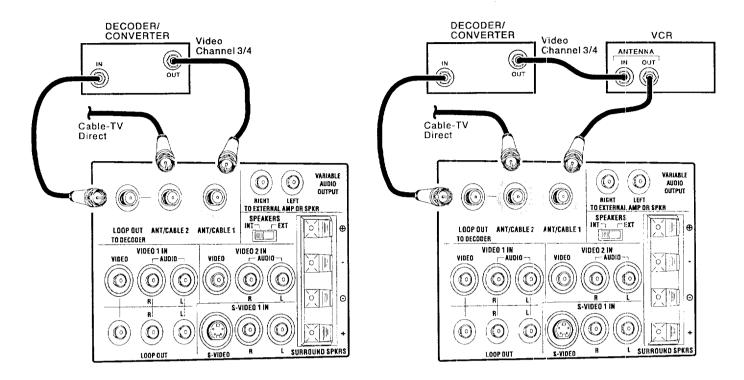






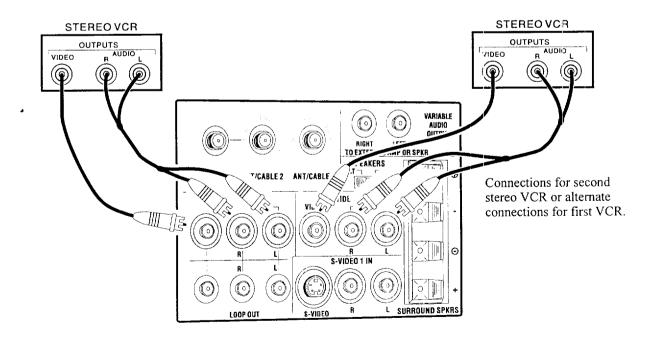
(continued on next page)

# STEP 1. MAKE BASIC CONNECTION TO TV

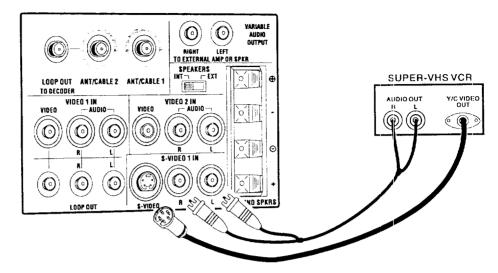


# **STEP 2. MAKE VCR CONNECTIONS TO TV**

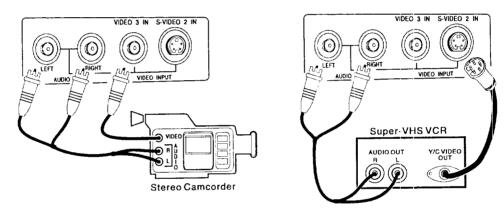
If you have a stereo VCR, you must make the A/V connections shown in order to hear stereo sound while playing a tape.



# STEP 3. MAKE SUPER-VHS VCR CONNECTIONS TO TV



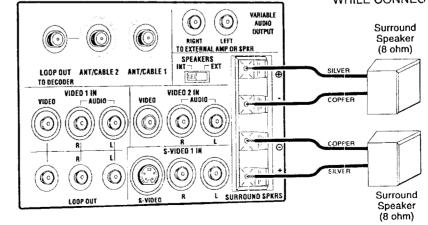
STEP 4. MAKE A/V CONNECTIONS TO AUXILIARY A/V JACKS (VIDEO 3 IN OR S-VIDEO 2 IN)



# STEP 5. MAKE SURROUND SOUND CONNECTIONS TO TV

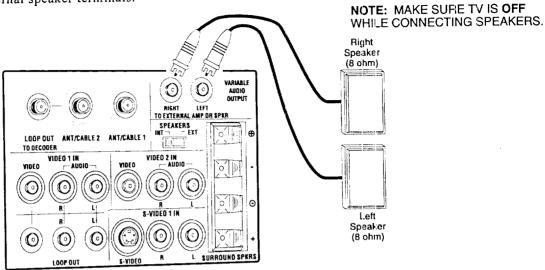
- 1. Mount and connect the optional surround sound speakers by following the instructions provided with the speakers.
- 3. The level of the surround sound varies relative to the difference between the left- and right-channel stereo signals.
- 2. Use the SURROUND option in the AUDIO Menu to adjust the volume of the surround speakers.

NOTE: MAKE SURE TV IS OFF WHILE CONNECTING SPEAKERS.



# STEP 6. MAKE EXTERNAL SPEAKER CONNECTIONS TO TV

- 1. Place the SPEAKERS EXT/INT switch on the TV in the INT position.
- 3. Place the SPEAKERS EXT/INT switch on the TV in the EXT position.
- 2. Connect the two external speaker terminals.



# STEP 7. MAKE AUDIO CONNECTION TO STEREO AMPLIFIER

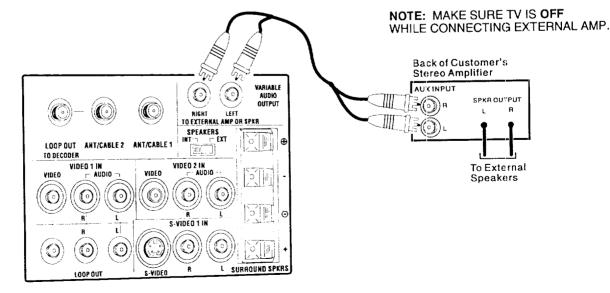
Using an External Amplifier with Speakers While the TV's Speakers are OFF.

- 1. Place the SPEAKERS EXT/INT switch on the TV in the INT position (TV's speakers are ON).
- 2. Turn the TV ON. Increase the volume level of the TV until the sound just starts to distort (sound bad).
- 3. Place the SPEAKERS EXT/INT switch on the TV in the EXT position (TV's speakers are OFF).
- 4. Turn the external audio amplifier ON. Adjust the volume level of the audio amplifier for the highest level you will need for your listening pleasure.
- 5. Adjust the volume level of the TV for the normal listening level as heard through the speakers of your audio amplifier.

# Using an External Amplifier with Speakers While the TV's Speakers are ON.

- Place the SPEAKERS EXT/INT switch on the TV in the INT position (TV's speakers are ON).
- 2. Turn the TV ON. Increase the volume level of the TV until the sound just starts to distort (sound bad).
- 3. Turn the external audio amplifier ON. Adjust the volume level of the audio amplifier for the highest level you will need for your listening pleasure.
- 4. Adjust the volume level of the TV for the normal listening level as heard through the speakers of the TV.

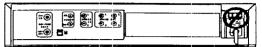
**NOTE:** If the volume of the internal TV speakers is set too low, you may hear undesirable noises through the speakers connected to your audio amplifier.



# THE FIRST TIME YOU OPERATE YOUR TV

## **STEP 1. CONNECT THE POWER**

- A. Plug your TV into an unswitched AC power source.
- B. Turn the TV ON by pressing OFF-ON.



Do not plug TV into switched outlet on cable-TV decoder or VCR

## **STEP 2. SELECT YOUR VIEWING SOURCE**

A TV source refers to the equipment connected to the TV that supplies the picture and sound to your TV. You select the viewing source by using the SOURCE MENU.

### To Access SOURCE MENU

- 1. Press SOURCE on the remote control to view the SOURCE MENU.
- 2. Press SOURCE repeatedly until the desired source is highlighted.
- 3. Press ENTER to return to normal viewing.

## **STEP 3. USE AUTO PROGRAM**

AUTO PROGRAM finds all available channels and stores them in the memory of the TV for use by CHANNEL (CH) Up/Down. Use AUTO PROGRAM only when you first install your TV, or when you permanently change the connections to the TV. For example, when you replace the antenna with a cable-TV system.

**NOTE:** AUTO PROGRAM can only be used with ANT/ CABLE 1 or 2 Source selection.

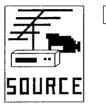
### To Use AUTO PROGRAM

- 1. Press MENU on your remote control repeatedly until the SETUP MENU appears.
- 2. Press SELECT (SEL) UP/DOWN to highlight Auto Program.
- 3. Press ADJUST (ADJ) Left/Right to start Auto Program.
- 4. Use AUTO PROGRAM independently for each AN-TENNA or CABLE signal source connected to your TV. Select one source by using the SOURCE MENU (ANT/CABLE 1 or 2) and use AUTO PROGRAM. When completed, select the other source and use AUTO PROGRAM again.

## **STEP 4. TIME FUNCTIONS**

#### Set Clock In TV

- 1. Press Menu until the SETUP MENU is selected.
- 2. Press SELECT (SEL) to highlight CLOCK SET then use the number buttons on the remote to enter the correct time.
- 3. Select AM or PM using the TIMER key on the remote.
- 4. Press ENTER (ENT) to start the clock.



ANT/CABLE 1 ANT/CABLE 2 VIDEO 1 VIDEO 2 S-VIDEO 1 VIDEO 3 S-VIDEO 2

**NOTE:** The antenna or cable must be connected to the TV before using AUTO PROGRAM to find available channels



AUTO PROGRAM CH. ADD/DEL CH. LABELS TUNING BAND AUTO TUNING SOURCE ID CLOCK SET CAPTIONS

### Setup Menu with Auto Program Highlighted

### When Some Channels Are Not Found

AUTO PROGRAM finds only active channels and stores them in the favorite channel memory. You can add channels to those stored in memory by using CH. ADD/DEL.

AUTO PROGRAM	
CH. ADD/DEL	
CH. LABELS	
TUNING BAND	
AUTO TUNING	
SOURCE ID	
CLOCK SET	10:00 AM
CAPTIONS	

Selecting Clock Set

(continued on next page)

# THE FIRST TIME YOU OPERATE YOUR TV

### To Use Sleep Timer

- 1. Press TIMER to view the SLEEP TIMER screen.
- 2. Press TIMER repeatedly until you reach desired shutoff time.

One minute before the TV shuts off, the GOOD NIGHT display appears on the screen. At this time you have a choice of the following three actions.

- 1. Do nothing. The TV will shut off in one minute. The display will count off the remaining seconds.
- 2. Remove the GOOD NIGHT display by pressing ENTER. The TV will still shut off in one minute.
- 3. Delay the shut off by pressing TIMER to select a new shut-off time.

### To Use ON/OFF Timer

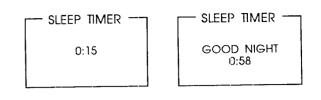
- 1. Press TIMER and then MENU on the remote to view the ON/OFF TIMER screen.
- 2. Press SELECT (SEL) to highlight ON TIME. Use the number keys on the remote to enter the time for the TV to turn on. Press TIMER to choose AM or PM.
- 3. Press SELECT (SEL) to highlight OFF TIME. Use the number keys on the remote to enter the time for the TV to turn off. Press TIMER to choose AM or PM.
- Press SELECT (SEL) to highlight TIMER. Use AD-JUST (ADJ) on the remote to turn TIMER ON or OFF.
   NOTE: A time must be set in either the ON TIME or OFF TIME before you can turn the TIMER ON.
- 5. Press ENTER (ENT) to return to normal viewing.

**NOTE:** The ON/OFF Timer can not be used until after the television's clock is set.

### **STEP 5. USE OTHER OPTIONS**

You may want to use the following options:

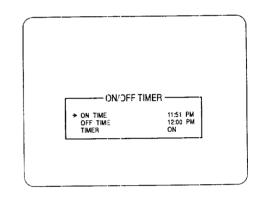
- Program the channels accessed when using CHANNEL Up/Down. Refer to CH. ADD/DEL option for details.
- Add labels (such as NBC and ABC) to the Channel/Time display. Refer to CH. LABELS option for details.



### To Cancel the SLEEP TIMER

You can cancel the SLEEP TIMER by setting the SLEEP TIMER status to OFF.

**NOTE:** The SLEEP TIMER resets to OFF when you turn off the TV.

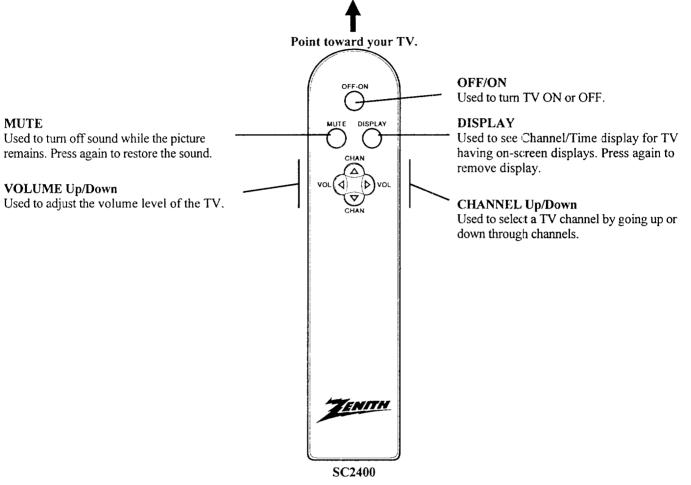


**ON/OFF** Timer

# **REMOTE CONTROL MODEL SC2400**

## **OPERATION**

This remote is provided as an additional "everyday" remote with some TV models. It may be used to operate the most basic features of your new TV. To operate other features, use the full feature remote provided.



## **INSTALLING BATTERIES**

When the effective range of the remote becomes noticeably shorter, replace the batteries with two (2) high quality, size AAA, alkaline batteries.

Zenith is not responsible for damage caused by battery leakage.

 O
 REMOVE TWO SCREWS TO REPLACE BATTERIES
 O

 O
 O
 O

 O
 O
 O

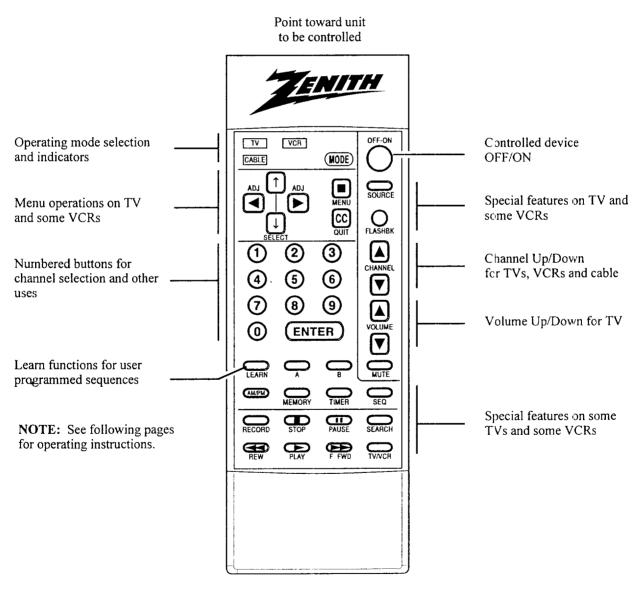
### **OPERATION**

The multi-brand remote supplied with your new Zenith TV allows you to operate most models of infrared (IR) remote-con trolled TVs, VCRs and cable-TV converters, even if they are all different brands.

## CHOOSE THE OPERATING MODE

To operate your TV, VCR or CABLE-TV decoder, you must first choose the remote's mode of operation. To select the mode, press the MODE key until the desired indicator lights. Your multi-brand remote has already been programmed to operate your Zenith TV, a Zenith VCR and a Zenith cable-TV decoder. It must be "taught" to operate other brands. Refer to "Programming Your Remote Control" for details.

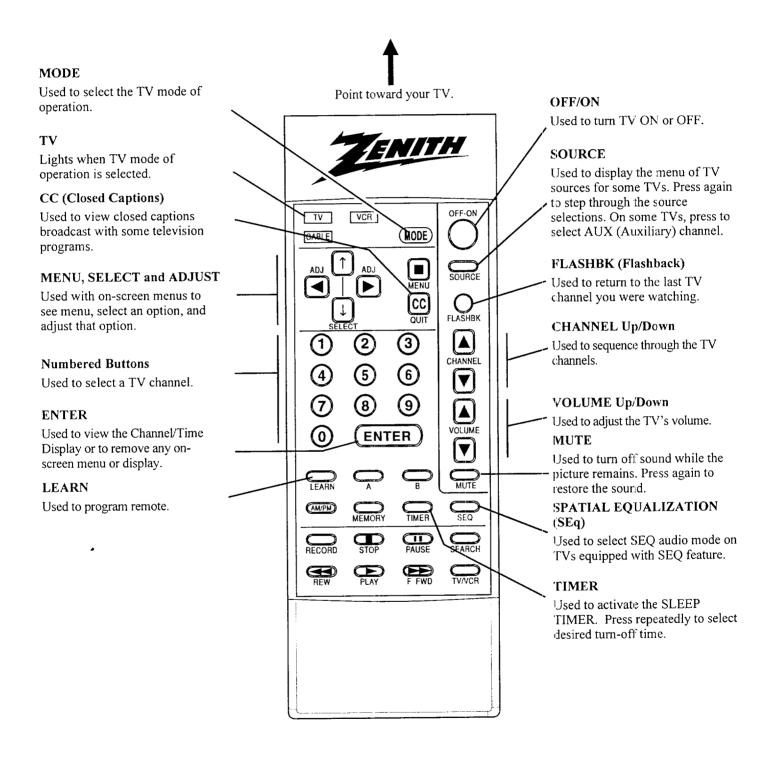
Some KEYS on the remote will always operate a particular appliance. For example, VOLUME always operates the TV volume and PLAY always operates the VCR. The function of other keys depends on the mode selected.



MBR3420

## **TV OPERATIONS**

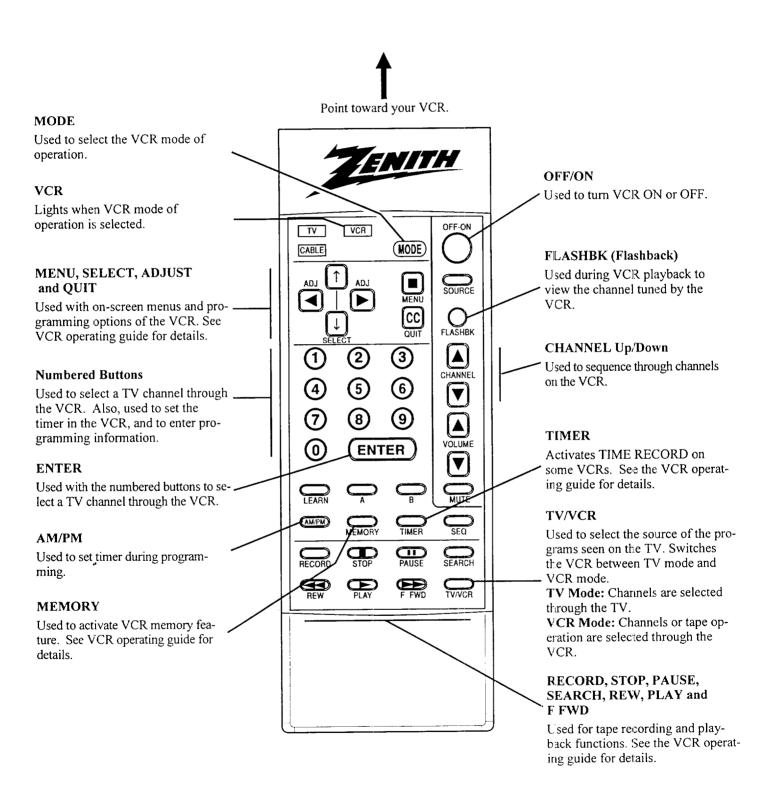
The following functions and operations apply to your Zenith TV. The remote control must be in the TV mode to operate your TV.



## VCR OPERATIONS

The following functions and operations apply to Zenith VCR models built after 1988. The remote control must be in the VCR mode to operate your VCR.

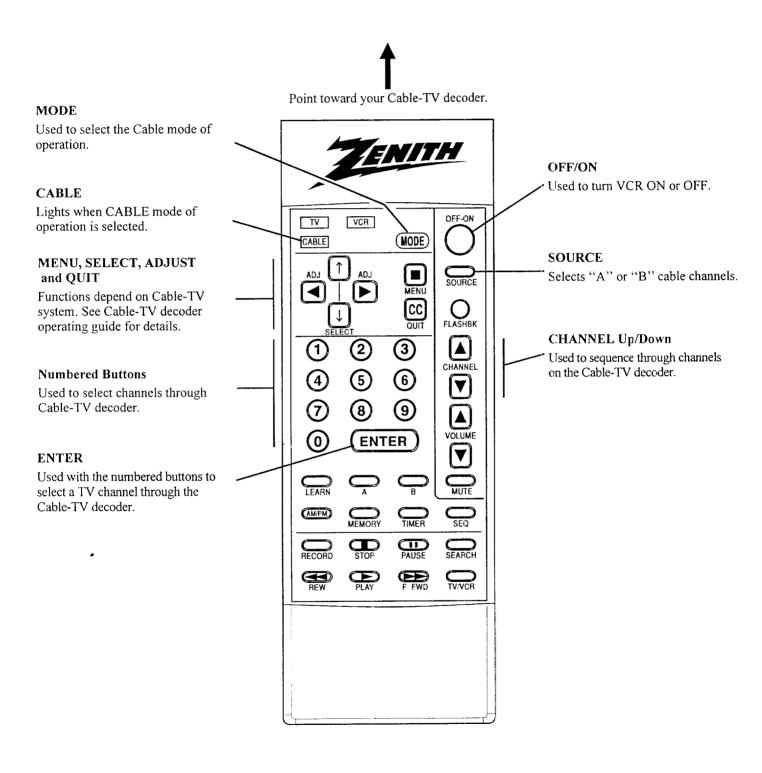
The remote control supplied with your VCR may have keys not duplicated on the new remote. If these functions are desired, the original remote control will have to be used.



### **CABLE-TV OPERATIONS**

The following functions and operations apply to a Zenith cable-TV decoder. The remote control must be in the CABLE mode to operate your cable-TV decoder.

The remote control supplied with your cable-TV decoder may have keys not duplicated on the new remote. If these functions are desired, the original remote control will have to be used.



# **PREPARATION FOR USE**

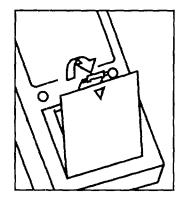
Batteries are provided with this remote, but you must install them before using the remote.

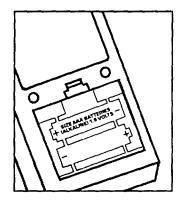
## **INSTALLING BATTERIES**

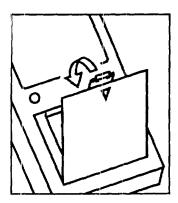
When the effective operating range of your remote becomes noticeably shorter, replace the batteries with two high-quality, alkaline, size AAA batteries.

Zenith is not responsible for damage caused by battery leakage. After installing new batteries, the remote control will set itself to Zenith brand codes, as follows: TV=101, VCR=201 and CABLE=301.

If you are going to operate equipment that uses different codes, the remote must be reprogrammed for those codes.







### **PROGRAMMING BRAND CODES**

Introduction

Before using your new remote control, it must be programmed to recognize the brands of equipment it will be used to operate. If you are using a Zenith VHS VCR or a Zenith cable-TV decoder, the remote has already been programmed for you.

Find the code that corresponds to each brand and type of equipment you are going to operate. Refer to Tables 1, 2 and 3.

For example, if you were programming the remote for use with a Zenith TV, you would look for "Zenith" in "Table 1", and find code "101."

Write the brand codes for your equipment on the following lines.

TV CODE:

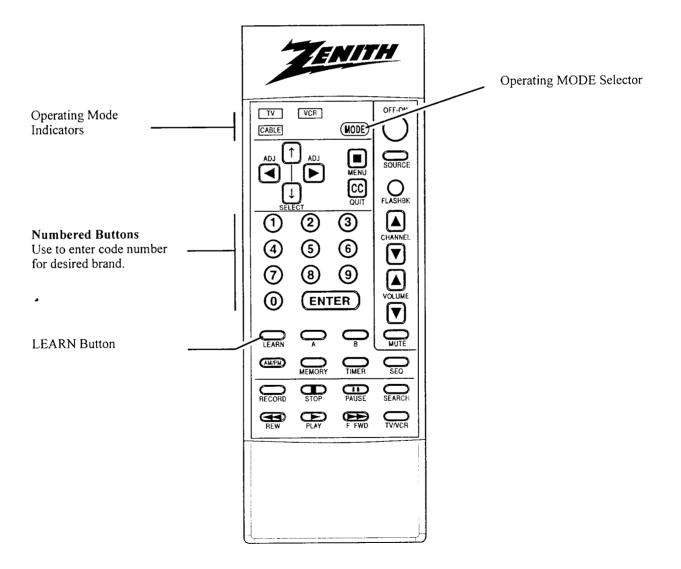
CABLE CODE:

VCR CODE:

- 1. Press MODE repeatedly to select the desired TV, VCR or CABLE operating mode for the remote.
- 2. Press LEARN for about 5 seconds until the MODE indicator lights for the selected TV, VCR or CABLE mode of operation.
- 3. Enter the proper brand code number for the equipment to be controlled.
- 4. Press LEARN. All three mode indicators should light briefly, then turn off to indicate the brand code has been programmed.
- 5. If all three mode indicators fail to light briefly, an error has occurred. Repeat Steps 1-4 to try again.
- 6. Repeat steps 1-4 to program the remote for the other equipment you are using.

**NOTE:** CABLE mode can be programmed to operate a second TV or second VCR, if desired.

When batteries are removed: It will be necessary to reprogram the proper VCR and cable-TV decoder codes.



# TV, VCR AND CABLE-TV OPERATING CODES

### Table 1. TV Codes by Brand

#### Table 2. VCR Codes by Brand

#### Table 3. Cable Decoder Codes by Brand

Table I.		odes by Brand	
TV Brand Name Co	de	TV Brand Name Co	de
Admiral	116	Montgomery Ward	119
Admiral	121	Montgomery Ward	121
Akai	104	Montgomery Ward	130
Amark	103	NEC	104
AOC	104	NEC	119
Bell & Howell	121 119	Panasonic	106
Centurion Coronado	103	Panasonic Philco	107 103
Curtis Mathes	116	Philco	105
Curtis Mathes	119	Philco	112
Curtis Mathes	121	Philco	113
Daytron	119	Philips	112
Emerson	103	Philips	113
Emerson	104	Pioneer	135
Emerson	123	Portland	103
Emerson	124	Quasar	106
Emerson	131	Quasar	107
Emerson	136	Realistic	105
Fisher	109	Realistic	123
Fisher	118	Realistic	124
General Electric	106 107	RCA	104 116
General Electric General Electric	107	RCA RCA	126
General Electric	116	Sampo	119
Goldstar	103	Samsung	103
Goldstar	104	Samsung	119
Goldstar	119	Samsung	134
Hitachi	102	Sanyo	108
Hitachi	103	Sanyo	109
Hitachi	129	Sanyo	118
JVC	125	Scott	119
JVC	132	Sears	103
J.C. Penney	104	Sears	108
J.C. Penney	110	Sears	109
J.C. Penney	114 117	Sears	110
J.C. Penney J.C. Penney	119	Sears Sears	118
KMC ·	103	Sears	134
KTV	103	Sharp	103
KTV	104	Sharp	105
Lodgenet	121	Sharp	122
Logik	121	Sharp	133
LXĨ	133	Sharp	137
LXI	137	Sony	115
Magnavox	103	Sylvania	112
Magnavox 🖌	112	Sylvania	113
Magnavox	113	Sylvania	117
Magnavox	119	Sylvania	119
Magnavox	127	Sylvania	127
Magnavox	128	Sylvania Totuno	128
Majestic Marantz	121 104	Tatung Teknika	106 103
Marantz	120	Teknika	112
Memorex	120	Teknika	121
MGA/Mitsubishi	104	Teknika	124
MGA/Mitsubishi	119	Telerent	103
MGA/Mitsubishi	120	Telerent	121
MGA/Mitsubishi	130	Toshiba	110
Montgomery Ward	103	Toshiba	111
Montgomery Ward	104	Toshiba	134
Montgomery Ward	105	Yorx	119
Montgomery Ward	113	Zenith	101
Montgomery Ward	114		

VCR Brand	<u> </u>	VCR Brand	
Akai	Code	Name Co	
Akai	223	Pentax	215
Audio Dynamics		Philco	214
Audio Dynamics		Philips	214
Broksonic	221	Philips	227
Canon	214	Pioneer	210
Citizen	209	Pioneer	215
Craig	212	Pioneer Laser Disk	228
Curtis Mathes	214	Quasar	214 215
Curtis Mathes	216 202	RCA RCA	215
DBX DBX	202	RCA	210
Emerson	203	RCA	227
Emerson	203	Realistic	206
Emerson	223	Realistic	208
Emerson	226	Realistic	212
Emerson	233	Realistic	214
Emerson	235	Realistic	231
Fisher	211	Samsung	220
Fisher	212	Samsung	230
Fisher	213	Sanyo	206
Funai	231	Sanyo	212
General Electric	214	Scott	204
General Electric	216	Scott	205
General Electric	220	Scott	233
Goldstar	209	Sears	206
Hitachi	215	Sears	209
Instant Replay	214	Sears	211
Instant Replay	227	Sears	212
JVC	202	Sears	215
JVC	225	Sharp	208
J.C. Penney	214	Sony VHS	232
J.C. Penney	218	Sony Video 8	217
J.C. Penney	227	Sylvania	207 214
Kenwood	202 207	Sylvania Sylvania	214
Magnavox Magnavox	207	Symphonic	231
Marantz	207	Tashiko	209
Marantz	218	Tatung	202
Marta	209	Teac	202
Memorex	209	Teac	231
Memorex	214	Teknika	234
Memorex	231	Toshiba	205
MGA/Mitsubish		Toshiba	215
MGA/Mitsubish		Vector Research	204
Montgomery Wa	ud 208	Vector Research	218
Montgomery Wa		Yamaha	202
Montgomery Wa		Yamaha	218
NEC	202	Zenith VHS	201
NEC	218	Zenith VHS	225
Panasonic	214	Zenith VHS	229
1			
1			
1			
1			

Brand				
de	Cable Decoder Brand Name Co	ode		
312	Pioneer	315		
330	Regency	329		
305	Samsung	335		
331	Scientific Atlanta	316		
305	Scientific Atlanta	323		
306	Scientific Atlanta	336		
302	Sprucer			
303	(Panasonic)	313		
304	Standard			
307	Components	335		
308	STS Satellite	324		
309	Telecaption 4000	325		
310	Tocom	317		
335	Tocom VIP	318		
314	Toshiba	322		
321	Toshiba Satellite	319		
322	Zenith	301		
334	Zenith	322		
335	Zenith AV3000	327		
311	Zenith Satellite	312		
332	Zenith Satellite	330		
313	Zenith Satellite	328		
320	Zenith Laser Disk	326		
333				
	de 312 330 305 303 303 304 309 310 309 310 322 334 321 322 334 335 314 321 322 334 335 314 321 322 334 335 312 322 334 335 312 325 335 305 305 305 305 305 305 30	Cable DecoderdeBrand Name312Pioneer330Regency305Samsung331Scientific Atlanta305Scientific Atlanta306Scientific Atlanta307Sprucer303(Panasonic)304Standard307Components308STS Satellite309Telecaption 4000310Tocom314Toshiba321Toshiba Satellite322Zenith335Zenith AV3000311Zenith Satellite322Zenith Satellite322Zenith Satellite323Zenith Satellite324Zenith Satellite335Zenith Satellite336Zenith Satellite337Zenith Satellite338Zenith Satellite339Zenith Satellite331Zenith Satellite335Zenith Satellite336Zenith Satellite337Zenith Satellite338Zenith Satellite339Zenith Satellite330Zenith Laser Disk		

### **OPERATION**

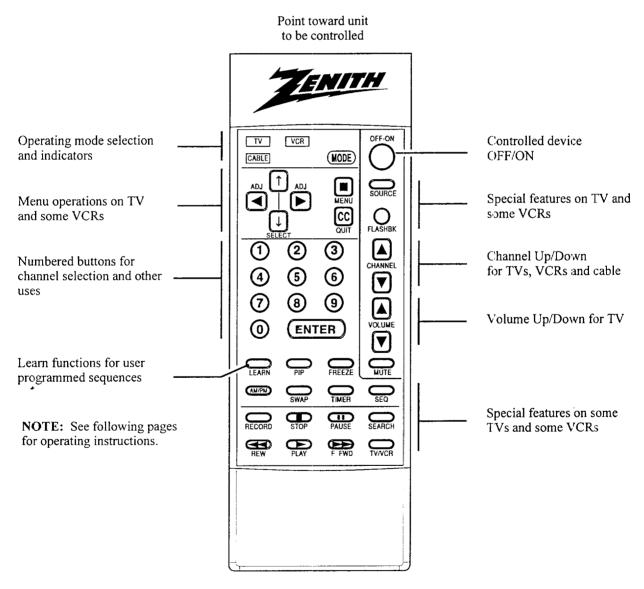
The multi-brand remote supplied with your new Zenith TV allows you to operate most models of infrared (IR) remote-controlled TVs, VCRs and cable-TV converters, even if they are all different brands.

### CHOOSE THE OPERATING MODE

To operate your TV, VCR, CABLE-TV decoder, or an AUX (auxiliary) device, you must first choose the remote's mode of operation. To select the mode, press the MODE key until the desired indicator lights.

Your multi-brand remote has already been programmed to operate your Zenith TV, a Zenith VCR and a Zenith cable-TV decoder. It must be "taught" to operate other brands. Refer to "Programming Your Remote Control" for details.

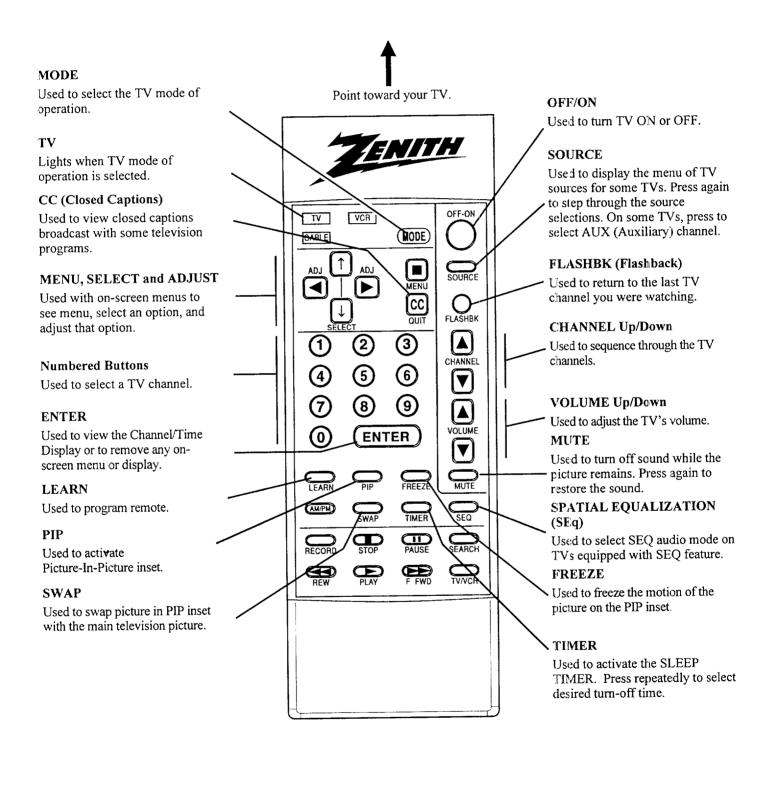
Some KEYS on the remote will always operate a particular appliance. For example, VOLUME always operates the TV volume and PLAY always operates the VCR. The function of other keys depends on the mode selected.



MBR3430

## **TV OPERATIONS**

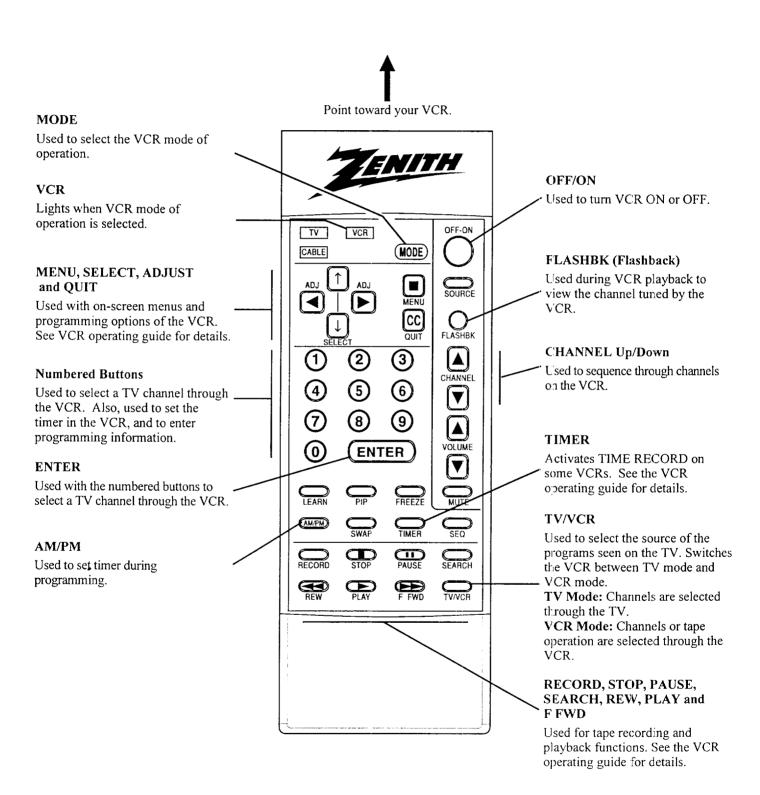
The following functions and operations apply to your Zenith TV. The remote control must be in the TV mode to operate your TV.



### **VCR OPERATIONS**

The following functions and operations apply to Zenith VCR models built after 1988. The remote control must be in the VCR mode to operate your VCR.

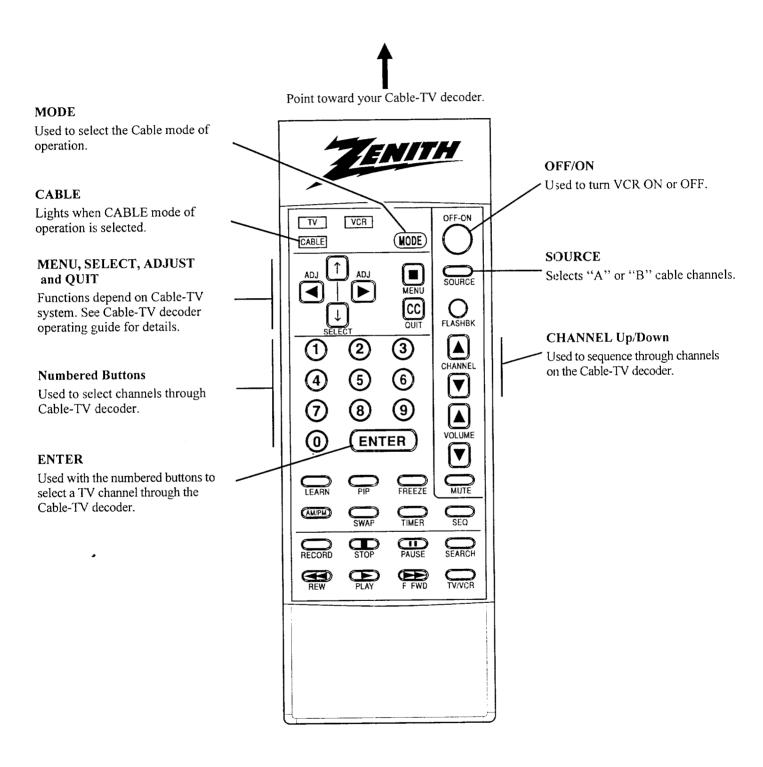
The remote control supplied with your VCR may have keys not duplicated on the new remote. If these functions are desired, the original remote control will have to be used.



### **CABLE-TV OPERATIONS**

The following functions and operations apply to a Zenith cable-TV decoder. The remote control must be in the CABLE mode to operate your cable-TV decoder.

The remote control supplied with your cable-TV decoder may have keys not duplicated on the new remote. If these functions are desired, the original remote control will have to be used.



## **PREPARATION FOR USE**

Batteries are provided with this remote, but you must install them before using the remote.

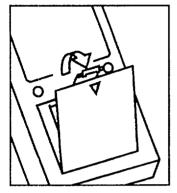
# **INSTALLING BATTERIES**

When the effective operating range of your remote becomes noticeably shorter, replace the batteries with two high-quality, alkaline, size AAA batteries.

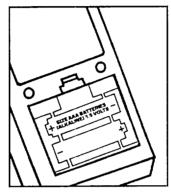
Zenith is not responsible for damage caused by battery leakage.

After installing new batteries, the remote control will set itself to Zenith brand codes, as follows: TV=101, VCR=201 and CABLE=301.

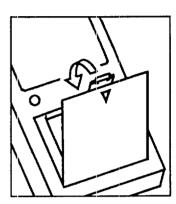
If you are going to operate equipment that uses different codes, the remote must be reprogrammed for those codes.



Step 1.



Step 2.



Step 3.

### **PROGRAMMING BRAND CODES**

Introduction

Before using your new remote control, it must be programmed to recognize the brands of equipment it will be used to operate. If you are using a Zenith VHS VCR or a Zenith cable-TV decoder, the remote has already been programmed for you.

Find the code that corresponds to each brand and type of equipment you are going to operate. Refer to Tables 1, 2 and 3.

For example, if you were programming the remote for use with a Zenith TV, you would look for "Zenith" in "Table 1", and find code "101."

Write the brand codes for your equipment on the following lines.

TV CODE:

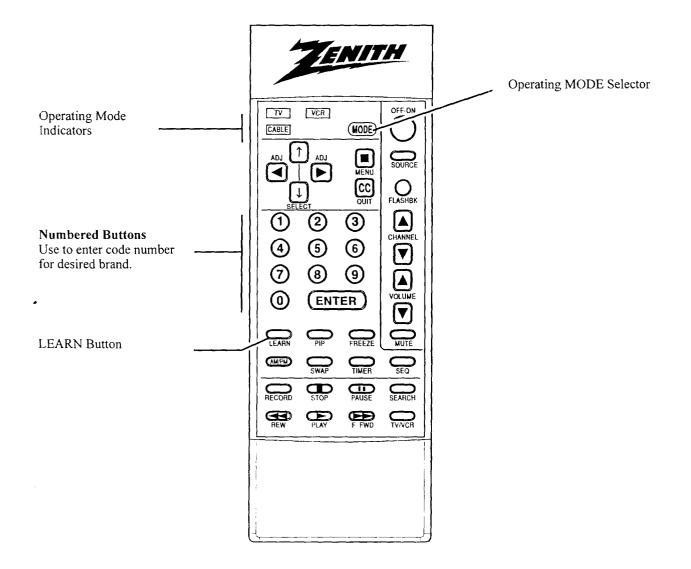
CABLE CODE:

VCR CODE:

- 1. Press MODE repeatedly to select the desired TV, VCR or CABLE operating mode for the remote.
- 2. Press LEARN for about 5 seconds until the MODE indicator lights for the selected TV, VCR or CABLE mode of operation.
- 3. Enter the proper brand code number for the equipment to be controlled.
- 4. Press LEARN. All three mode indicators should light briefly, then turn off to indicate the brand code has been programmed.
- 5. If all three mode indicators fail to light briefly, an error has occurred. Repeat Steps 1-4 to try again.
- 6. Repeat steps 1-4 to program the remote for the other equipment you are using.

**NOTE:** CABLE mode can be programmed to operate a second TV or second VCR, if desired.

When batteries are removed: It will be necessary to reprogram the proper VCR and cable-TV decoder codes.



5-6

# TV, VCR AND CABLE-TV OPERATING CODES

### Table 1. TV Codes by Brand

### Table 2. VCR Codes by Brand

# Table 3. Cable Decoder Codes by Brand

	<u>v C</u>	oues by brand		
TV Brand TV Brand Name Code Name Code				
Admiral	116	Montgomery Ward	119	
Admiral	121	Montgomery Ward	121	
Akai	104	Montgomery Ward	130	
Amark	103	NEC	104	
AOC	104	NEC	119	
Bell & Howell	121	Panasonic	106	
Centurion	119 103	Panasonic Philco	107 103	
Coronado Curtis Mathes	105	Philco	103	
Curtis Mathes	119	Philco	112	
Curtis Mathes	121	Philco	113	
Daytron	119	Philips	112	
Emerson	103	Philips	113	
Emerson	104	Pioneer	135	
Emerson	123	Portland	103	
Emerson	124	Quasar	106	
Emerson	131	Quasar	107	
Emerson	136	Realistic	105	
Fisher	109	Realistic	123	
Fisher	118	Realistic	124	
General Electric	106	RCA	104	
General Electric	107	RCA	116	
General Electric	114	RCA	126	
General Electric	116	Sampo	119	
Goldstar	103	Samsung	103	
Goldstar	104	Samsung	119	
Goldstar	119	Samsung	134 108	
Hitachi	102 103	Sanyo	108	
Hitachi	103	Sanyo	118	
Hitachi JVC	129	Sanyo Scott	119	
JVC	123	Sears	103	
J.C. Penney	104	Sears	108	
J.C. Penney	110	Sears	109	
J.C. Penney	114	Sears	110	
J.C. Penney	117	Sears	-111	
J.C. Penney	119	Sears	118	
KMC	103	Sears	134	
KTV	103	Sharp	103	
KTV	104	Sharp	105	
Lodgenet	121	Sharp	122	
Logik	121	Sharp	133	
LXI	133	Sharp	137	
LXI	137	Sony	115	
Magnavox	103	Sylvania	112	
Magnavox	112	Sylvania	113	
Magnavox	113	Sylvania	117 119	
Magnavox	119 127	Sylvania Sylvania	127	
Magnavox Magnavox	127	Sylvania	127	
Magnavox Majestic	120	Tatung	106	
Marantz	104	Teknika	103	
Marantz	120	Teknika	112	
Memorex	121	Teknika	121	
MGA/Mitsubishi	104	Teknika	124	
MGA/Mitsubishi	119	Telerent	103	
MGA/Mitsubishi	120	Telerent	121	
MGA/Mitsubishi	130	Toshiba	110	
Montgomery Ward	103	Toshiba	111	
Montgomery Ward	104	Toshiba	134	
Montgomery Ward	105	Yorx	119	
Montgomery Ward	113	Zenith	101	
Montgomery Ward	114			

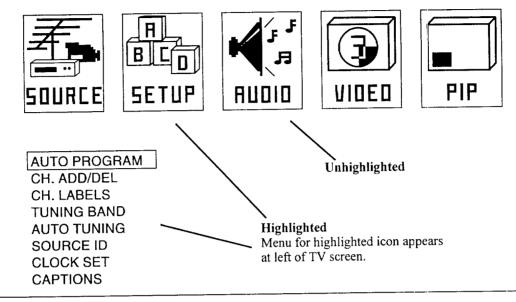
VCR Brand		VCR Brand	
Name Co	de	Name Co	de
Akai	223	Pentax	21
Audio Dynamics	202	Philco	21
Audio Dynamics	218	Philips	21
Broksonic	221	Philips	22
Canon	214	Pioneer	21
Citizen	209	Pioneer	21
Craig	212	Pioneer Laser Disk	22
Curtis Mathes	214	Ouasar	21
Curtis Mathes	216	RCA	21
DBX	202	RCA	21
DBX	218	RCA	22
Emerson	203	RCA	22
Emerson	221	Realistic	20
Emerson	223	Realistic	20
Emerson	226	Realistic	21
Emerson	233	Realistic	21
Emerson	235	Realistic	23
Fisher	211	Samsung	22
	212		23
Fisher	212	Samsung Sanyo	20
Fisher	213	-	20
Funai		Sanyo	20
General Electric	214	Scott	20
General Electric	216	Scott	
General Electric	220		2.3
Goldstar	209		- 20 - 20
Hitachi	215	Sears	
Instant Replay	214	Sears	21
Instant Replay	227	Sears	21
JVC	202	Sears	21
JVC	225	Sharp	20
J.C. Penney	214		2.3
J.C. Penney	218		21
J.C. Penney	227	~	20
Kenwood	202	Sylvania	21
Magnavox	207		2.2
Magnavox	214	Symphonic	23
Marantz	207		20
Marantz	218	Tatung	20
Marta	209	Teac	20
Memorex	212	Teac	23
Memorex	214	Teknika	23
Memorex	231	Toshiba	20
MGA/Mitsubishi	204		21
	222	Vector Research	20
Montgomery Ward	208		21
Montgomery Ward	214	Yamaha	20
Montgomery Ward		Yamaha	21
NEC		Zenith VHS	20
NEC	218	Zenith VHS	22
Panasonic	214		22
		-	

Brand				
Cable Decoder Brand Name Co	de	Cable Decoder Brand Name Co	ode	
Drake Satellite	312	Pioneer	315	
Drake Satellite	330	Regency	329	
Gemini	305	Samsung	335	
Gemini	331	Scientific Atlanta	316	
General Instrument	305	Scientific Atlanta	323	
General Instrument	306	Scientific Atlanta	336	
Hamlin	302	Sprucer		
Hamlin	303	(Panasonic)	313	
Jerrold	304	Standard		
Jerrold	307	Components	335	
Jerrold	308	STS Satellite	324	
Jerrold	309	Telecaption 4000	325	
Jerrold	310	Tocom	317	
Kale Vision	335	Tocom VIP	318	
Macom	314	Toshiba	322	
Macom	321	Toshiba Satellite	319	
Macom Satellite	322	Zenith	301	
Magnavox	334	Zenith	322	
NSČ	335	Zenith AV3000	327	
Oak	311	Zenith Satellite	312	
Oak	332	Zenith Satellite	330	
Panasor ic	313	Zenith Satellite	328	
Panasor ic	320	Zenith Laser Disk	326	
Paragon (Zenith)	333			

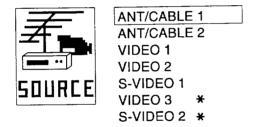
# QUICK REFERENCE TO ON-SCREEN MENUS

# **AVAILABLE MENUS**

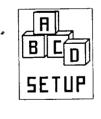
Your TV is icon and menu operated. That is, an icon is selected at the top of the TV screen and a menu of adjustment options appears.



## SUMMARY OF MENU ITEMS



\* Some models only.



AUTO PROGRAM CH. ADD/DEL CH. LABELS TUNING BAND AUTO TUNING SOURCE ID CLOCK SET CAPTIONS

**AUTO PROGRAM:** Finds all available channels and stores them in the memory of the TV for use with CHANNEL Up/Down.

**ANT/CABLE 1 or 2 :** Either of these sources may be used for input from an antenna or a cable-TV line.

**VIDEO 1 or 2 :** Either of these sources may be used for input from a VCR.

S-VIDEO 1: Use this source if a Super-VHS VCR is connected to your TV.

**VIDEO 3 :** Use this source if a camcorder is connected to your TV.

**S-VIDEO 2**: Use this source if a second Super-VHS VCR is connected to your TV.

**CH. ADD/DEL:** Changes the list of active channels stored in memory so that only your favorite channels are selected when using CHANNEL Up/Down.

**CH. LABELS:** Adds a channel label or name to the channel/time display. For example, ABC may appear when this network channel is tuned.

TUNING BAND: Determines the operation of the channel selector inside the TV.

**AUTO TUNING:** Lets your TV compensate for variations in broadcast and cable-TV frequencies.

**SOURCE ID:** Lets you assign a relevant name to each input source.

CLOCK SET: Sets the TV's internal clock.

**CAPTIONS:** Displays closed captions (CC) or informational text when available.

# **QUICK REFERENCE TO ON-SCREEN MENUS**

## SUMMARY OF MENU ITEMS



BASS TREBLE BALANCE AUDIO SEQ SUBBOUND BASS: Adjusts the BASS (low-frequency) level.

TREBLE: Adjusts the TREBLE (high-frequency) level.

**BALANCE:** Adjusts the BALANCE of sound between the left and right speakers for stereophonic programs.

**AUDIO MODE:** Allows for receiving a Second Audio Program (SAP), such as a program broadcast with two audio portions (typically two languages), or lets you select stereophonic (STEREO) or monaural (MONO) speaker operation.

SEQ: Turns on an enhanced stereo mode.

**SURROUND:** Adjusts Surround Sound volume when used with separately supplied Surround Sound speakers.



CONTRAST BRIGHTNESS COLOR TINT SHARPNESS COLOR TEMP VIDEO FILTER AUTO FLESH PICTURE PREF **CONTRAST:** Adjusts the overall contrast and color level of the picture.

**BRIGHTNESS:** Adjusts the brightness level of black areas in the picture.

COLOR: Adjusts the intensity of the colors in the picture.

TINT: Adjusts the color of the flesh tones.

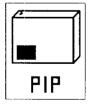
**SHARPNESS:** Adjusts the clarity of the edges of objects for the clearest possible picture.

**COLOR TEMP:** Changes the "color temperature" or picture white balance between cooler natural whites and warmer (red) colors.

**VIDEO FILTER:** Reduces video "noise" or interference in dark picture areas resulting in clearer overall pictures.

**AUTO FLESH:** Automatically maintains natural skin tones under changing scene and video source conditions.

**PICTURE PREF:** Lets you decide if you want to use your own CUSTOM video settings, the factory PRESET video settings, or the THEATER video settings for optimum viewing in low-light conditions.



CH. GUIDE \* CH. REVIEW \* PIP SOURCE PIP COLOR PIP TINT PIP SIZE

\* Some models only.

**CH. GUIDE:** Provides a visual review of all channels in the channel scan memory for the currently selected ANT/ CABLE source.

**CH. REVIEW:** Provides a visual review of the last three (3) channels tuned on the TV.

**PIP SOURCE:** Lets you select the equipment that supplies the picture to the PIP inset.

**PIP COLOR:** Adjusts the intensity of the colors in the PIP inset.

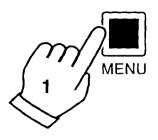
**PIP TINT:** Adjusts the color of the flesh tones.

**PIP SIZE:** Lets you choose between seeing a larger or smaller PIP inset.

# **QUICK REFERENCE TO ON-SCREEN MENUS**

## MENU OPERATION EXAMPLE

Press MENU repeatedly until the desired icon is highlighted and its menu is showing. This example shows choosing the SETUP MENU.

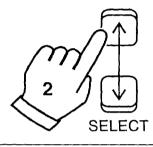




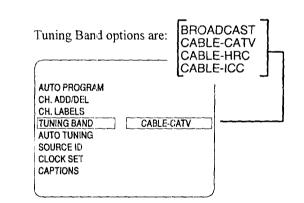
AUTO PROGRAM

AUTO PROGRAM CH. ADD/DEL CH. LABELS TUNING BAND AUTO TUNING SOURCE ID CLOCK SET CAPTIONS

Press SELECT (SEL) Up/Down repeatedly until the desired option/feature is highlighted. This example shows choosing TUNING BAND.

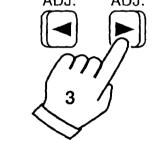


CH. ADD/DEL CH. LABELS [TUNING BAND] AUTO TUNING SOURCE ID CLOCK SET CAPTIONS



ADJ. ADJ.

Press ADJUST (ADJ) Left/Right to adjust the option. This example shows the choices you have for TUNING BAND.





Press ENTER (ENT) or wait a few seconds and the TV will re-

turn automatically to normal operation.

# SOURCE MENU



ANT/CABLE 1 ANT/CABLE 2 VIDEO 1 VIDEO 2 S-VIDEO 1 VIDEO 3 \* S-VIDEO 2 \*

Source Menu

## SOURCE SELECTION

### Purpose

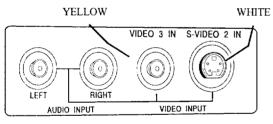
The viewing "source" refers to the equipment that supplies the picture and sound to your TV. You select the viewing source by using the SOURCE MENU.

### To Access the SOURCE MENU

- 1. Press SOURCE on the remote control to view the Menu icons with SOURCE already selected and its menu showing.
- 2. Press SOURCE repeatedly until the source you want is highlighted.
- 3. Press ENTER to return to normal viewing.

### CH 2 10:56 VIDEO 1 10:56 Channel/Time Display For Antenna or Cable Source Source Source Source

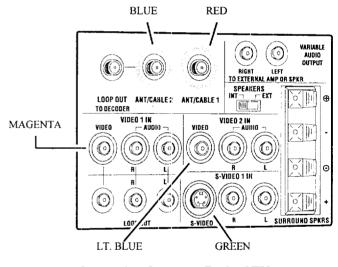
# SOURCE IDENTIFICATION



Auxiliary A/V Jacks

Selecting VIDEO 3: Routes the auxiliary video source (such as a camcorder or VCR) to the TV for viewing. The video source must be connected to the corresponding VIDEO 3 jacks.

Selecting S-VIDEO 2: Routes the auxiliary Super-VHS VCR source to the TV for viewing. The Super-VHS VCR must be connected to the corresponding S-VIDEO 2 jacks.



Connection Center on Back of TV

Selecting ANT/CABLE 1 or 2 : Routes the ANTENNA or cable-TV source to the TV for viewing. You see program material from whichever signal source is connected to the ANT/CABLE 1 or 2 jack.

Selecting VIDEO 1 or 2: Routes the video source (such as a VCR or a Video Disc player) to the TV for viewing. The video source must be connected to the corresponding VIDEO 1/2 jacks.

**Selecting S-VIDEO 1 :** Routes the auxiliary Super-VHS VCR Source to the TV for viewing. The Super-VHS VCR must be connected to the corresponding input jacks.

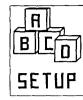
7 --- 1

#### **To Access SETUP Menu**

Refer to the "Using On-Screen Menus" section for details.

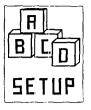
### **Before Using SETUP Menu**

Connect and turn ON all external equipment, such as cable TV decoder, VCR, etc. before using any item on the SETUP Menu.



#### AUTO PROGRAM CH. ADD/DEL CH. LABELS TUNING BAND AUTO TUNING SOURCE ID CLOCK SET CAPTIONS

Main Setup Menu



SOURCE ID CLOCK SET CAPTIONS

Setup Menu for Video and S-Video Sources

### **AUTO PROGRAM**

#### Purpose

Finds all available channels and stores them in the memory of the TV for use by CHANNEL (CH) Up/Down.

Use AUTO PROGRAM only when you first install your TV, or when you permanently change the connections to the TV. For example, when you replace the antenna with a cable-TV system.

**NOTE:** AUTO PROGRAM can only be used with ANT/ CABLE 1 or 2 Source selection.

#### To Use AUTO PROGRAM

- 1. Press ADJUST (ADJ) Left/Right to start Auto Program.
- Use AUTO PROGRAM independently for each AN-TENNA or CABLE signal source connected to your TV. Select one source by using the SOURCE MENU (ANT/CABLE 1 or 2) and use AUTO PROGRAM. When completed, select the other source and use AUTO PROGRAM again.

## CH. (Channel) ADD/DEL

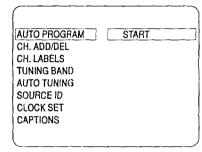
#### Purpose

Lets you add channels to and remove channels from the channel scan. In this way you can customize the channels that are accessed through CHANNEL (CH) Up/Down.

**NOTE:** CH. ADD/DEL can only be used with ANT/ CABLE 1 or 2 Source selection.

#### To Add a Channel to Scan Sequence

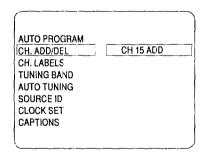
- 1. Press ADJUST (ADJ) Left/Right to view the channel add/delete screen.
- 2. Use the number buttons on the remote to enter the channel or use ADJUST (ADJ) Left/Right and SE-LECT Up/Down to move the highlight to the channel you wish to add.
- 3. Add the channel by pressing SOURCE until the display shows ADDED.



#### Selecting Auto Program

#### When Some Channels Are Not Found

AUTO PROGRAM finds only active channels and stores them in the favorite channel memory. You can add channels to those stored in memory by using CH. ADD/DEL.



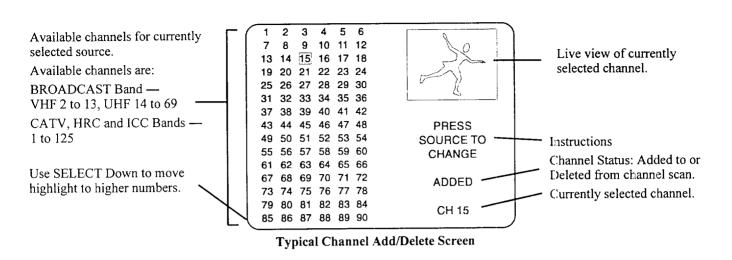
Selecting Ch. Add/Del

#### To Delete a Channel from Scan Sequence

- 1. Press ADJUST (ADJ) Left/Right to view the channel add/delete screen.
- 2. Use the number buttons on the remote to enter the channel or use ADJUST (ADJ) Left/Right and SE-LECT Up/Down to move the highlight to the channel you wish to delete.
- 3. Delete the channel by pressing SOURCE until the display shows DELETED.

(continued on next page)

2736-0



# CH. (Channel) LABELS

#### Purpose

Assigns a network label or "name" to the selected channels. If you choose the label "ABC" for channel 15, "ABC" appears in the Channel/Time display when channel 15 is selected for viewing.

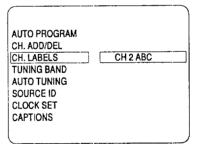
**NOTE:** CH. LABELS can only be used with ANT/ CABLE 1 or 2 Source selection.

A&E	ABC	ACTS	ADC	AMC	BET
BRAV	CA	CBC	CBN	CBS	CMTV
CNBC	CNN	COM	CSPN	CTN	CTV
DIS	DISC	E!	ENC	ESPN	ET
EWTN	FAM	FNN	FOX	GALA	HBO
HN	HSE	HSN	IC	INSP	LIFE
MAX	MEU	MMT	MTV	NBC	NICK
NOS	PBS	PLAY	PTL	QVC	RDS
REQ	SC	SCFI	SHOW	SIN	TBS
TBN	TELE	TLC	TMC	TNN	TNT
TRAV	TSN	TVA	TWN	USA	VC
VCR	VHI	VISN	VJN	WGN	WTBS
WWOR	YTV		_		

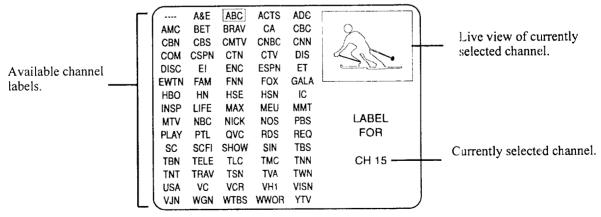
List Of Available Channel Labels

### To Use CH. LABELS

- 1. Press ADJUST (ADJ) Left/Right to view the channel label screen.
- 2. Use ADJUST (ADJ) Left/Right and SELECT Up/Down to move the highlight to the LABEL you wish to assign to the current channel.
- 3. To label another channel, use CHANNEL Up/ Down, or the number keys on the remote control to select the channel number and repeat step 2.
- 4. To remove an assigned channel label, select the four dashes.



Selecting Ch. Labels



**Typical Channel Label Screen** 

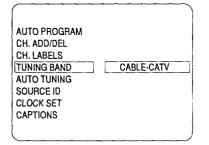
# TUNING BAND

### Purpose

Allows for setting the TV channel selector (tuner) to match your antenna or cable-TV system.

If you are having difficulty tuning channels, the TUNING BAND may have to be set manually to match your viewing needs.

**NOTE:** TUNING BAND can only be used with ANT/ CABLE 1 or 2 Source selection.

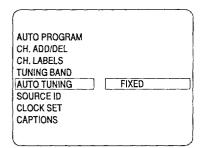


Selecting Tuning Band

### **AUTO TUNING**

#### Purpose

Lets your TV compensate for variations in broadcast and cable-TV frequencies.



Selecting Auto Tuning

## SOURCE ID

#### Purpose

Assigns a descriptive "name" to the input sources. For example, the VIDEO 1 source may be named VCR. "VCR" now appears in the source menu as a reminder that your VCR is connected to VIDEO 1 input jacks.

#### To Use SOURCE ID

- 1. Press ADJUST (ADJ) Left/Right to view the SOURCE ID screen.
- 2. Use SELECT Up/Down to select a SOURCE.
- 3. Use ADJUST (ADJ) Left/Right to select the desired name for the source.



Press ADJUST (ADJ) Left/Right to select the tuning band that gives you the most channels:

- BROADCAST is used for standard "over-the-air" broadcasts.
- CABLE CATV is used for most standard cable-TV (CATV) systems.
- CABLE HRC is used for cable-TV systems that use HRC (Harmonically Related Carrier).
- CABLE ICC is used for cable-TV systems using ICC (Incremental Coherent Carrier).

#### Available Channels per Band

The channels that are available in the broadcast and cable tuning bands are shown below:

BROADCAST Band - VHF 2 to 13, UHF 14 to 69

CATV, HRC and ICC Bands - 1 to 125

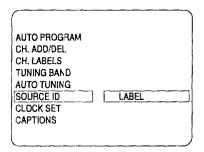
If you are having difficulty tuning channels, the AUTO TUN-ING may have to be set manually to match your viewing needs.

**NOTE:** AUTO TUNING can only be used with ANT/ CABLE 1 or 2 Source selection.

#### To Use AUTO TUNING

Press ADJUST (ADJ) Left/Right to select the mode of operation that gives you the most channels:

- FIXED is used to receive "over-the-air" TV stations, and with many cable-TV systems.
- SEARCH is used only when the TV must search to find the frequency being received, such as when used with certain VCRs and video game controllers.

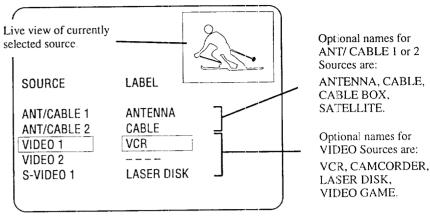


Selecting Source ID

(continued on next page)

#### VIDEO GAMES AND OTHER FIXED PATTERN DISPLAY CAUTION

If you use your TV for video games or other fixed displays, avoid setting the BRIGHTNESS control for an excessively bright picture. A bright, fixed pattern, if used for long periods of time, can result in a permanent imprint on the TV picture tube. You can reduce this possibility by alternating the use of the fixed pattern display with normal TV picture viewing, by turning down the CONTRAST control for sustained fixed pattern use, and by turning off the fixed pattern display when not in use.





### **CLOCK SET**

#### Purpose

Sets the clock in the TV to the correct time.

### To Use CLOCK SET from Remote Control

Use the numbered buttons on the remote control to enter the current time. Press ENTER (ENT) to start the clock. Press TIMER to select AM or PM.



Channel/Time Display On TV Screen

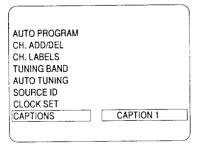
## CAPTIONS

#### Purpose

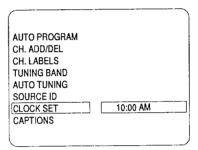
Displays closed captions (CC) or informational text when available on the selected channel.

### To Use CAPTIONS

Press ADJUST (ADJ) Left/Right to select desired mode of operation. Five different selections can be made: OFF, CAP-TION 1, CAPTION 2, TEXT 1 or TEXT 2.



Selecting Captions

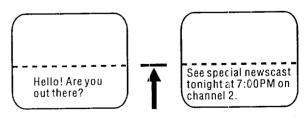


Selecting Clock Set

### To Use CLOCK SET from Control Panel

Use ADJUST (ADJ) Left/Right to set the time. Press ENTER (ENT) to start the clock.

At the time this instruction manual was written, little or no information appeared for any selection except CAPTION 1. Therefore you should choose CAPTION 1 and leave it in that selection unless you know there is something available in one of the other options. Once you make a selection, that selection is remembered until you change it.



**Typical Captions Display** Captions may be shown anywhere on the screen.

Typical Text Display

Fixed size text window. May be all black when no information is shown.

# **AUDIO MENU**



BASS TREBLE BALANCE AUDIO SEQ SURROUND

BASS	Adjusts the BASS (low-frequency) level.			
TREBLE	Adjusts the TREBLE (	Adjusts the TREBLE (high-frequency) level.		
BALANCE	Adjusts the balance of	sound between the left and right speakers for stereo programs.		
AUDIO	Allows you to select S	TEREO, MONO or 2ND AUDIO/SAP speaker operation.		
(AUDIO mode options are not available while	STEREO:	Directs the sound to the left and right speakers as supplied by the program source (broadcast TV, VCR, etc.)		
using a VIDEO or	MONO:	Directs the same sound to both left and right speakers even if the source being received is in stereo.		
S-VIDEO source. The audio received from these sources are assumed to be stereo .)	2ND AUDIO/SAP:	Directs the sound for the Second Audio Program to both the left and right speakers. SAP sound is always monaural. If the SAP signal ends, the audio defaults to either stereo or mono depending on the audio being received.		
SEQ (Spatial Equalization)	Improves tonal balance sound. SEQ is only av the AUDIO option or	e and increases apparent stereo separation to produce a spacious and more tonal vailable if a stereo signal is being received <b>and STEREO</b> is either selected using selected by default.		
SURROUND	Adjusts the level of Sound is only availab	urround Sound provided to the optional surround sound speakers. Surround le if a surround encoded stereo signal is being received <b>and STEREO</b> is either DIO option or selected by default.		

### **To Access AUDIO MENU**

Refer to the "Quick Reference to On-Screen Menus" section for details.

**NOTE:** All adjustments on the AUDIO MENU are optional. You do not have to use these features in order to use your TV.



STEREO is selected and a stereo signal is being received. You will hear stereo sound.

# To Adjust BASS, TREBLE, BALANCE and SURROUND

Press ADJUST (ADJ) Left/Right until the most pleasing sound is heard.

#### To Use AUDIO Mode Options

Press ADJUST (ADJ) Left/Right to select desired option. We recommend that you use the STEREO option. The TV will switch automatically between the STEREO and MONO modes dependent on the signal being received.

If you prefer SAP, use the 2ND AUDIO/SAP option. On those stations which broadcast two audio portions, you will hear the SAP (usually a second language). When the SAP broadcast ends, the TV switches automatically between STEREO and MONO modes. The TV switches back to 2ND AUDIO/SAP when the SAP broadcast resumes.

Audio Mode Shown in Channel/Time Display

# **VIDEO MENU**



CONTRAST BRIGHTNESS COLOR TINT SHARPNESS COLOR TEMP VIDEO FILTER AUTO FLESH PICTURE PREF

CONTRAST	Adjusts the overall contrast and color level of the picture.
BRIGHTNESS	Adjusts the brightness level of black areas in the picture.
COLOR	Adjusts the intensity of the colors in the picture.
TINT	Adjusts the color of the flesh tones, where G is Green and R is Red.
SHARPNESS	Adjusts the clarity of the edges of objects for the clearest picture quality.
COLOR TEMP	Changes the "color temperature" or picture white balance between cooler natural whites and warmer (red) colors.
VIDEO FILTER	Reduces video "noise" or interference in dark picture areas resulting in clearer overall pictures.
AUTO FLESH	Automatically maintains natural skin tones under changing scene and video source conditions.
PICTURE PREF. (Pref- erence)	Lets you decide if you want to use your own CUSTOM video settings, the factory PRESET video settings, or the factory preset THEATER video settings for low light conditions.

### To Access VIDEO Menu

Refer to the "Using On-Screen Menus" section for details.

### **Optional Adjustments**

All adjustments on the VIDEO MENUS are optional. You do not have to use these features in order to use your TV.

### **To Use Video Settings**

- 1. Select video option to be adjusted.
- 2. Press ADJUST (ADJ) Left/Right until the most pleasing picture is seen.

### To Use PICTURE PREF. (Preference)

Press ADJUST (ADJ) Left/Right to select status.

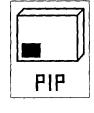
If either the PRESET or THEATER setting is selected, any adjustment made to the VIDEO Menu options automatically changes the PICTURE PREF. setting to custom, and saves your current video settings in the CUSTOM mode.

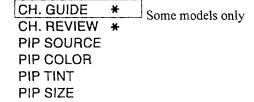
### **PIP MENU**

#### To Access PIP Menu

Refer to the "Using On-Screen Menus" section for details.

**NOTE:** Selecting the PIP Menu does not "activate" PIP. However, a PIP inset will appear during menu operation to show the effect of any setting changes.





#### CH. (Channel) GUIDE

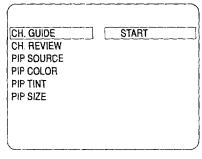
#### Purpose

\$

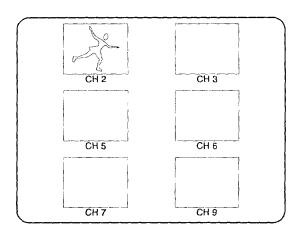
Provides a visual review of all channels in the channel scan memory for the currently selected ANT/CABLE source.

#### To Use CH. GUIDE

- 1. Press ADJUST (ADJ) Left/Right to start Ch. Guide.
- 2. The TV will show small PIP-like views of all channels in the channel scan from the lowest channel number to the highest.
- 3. Tune to a desired channel by pressing ENTER (ENT) while the picture in the PIP-like inset is active, or enter the channel number using the number keys on the remote.
- 4. Press MENU to return to the PIP Menu.



Selecting Ch. Guide



Ch. Guide Screen

### CH. (Channel) REVIEW

#### Purpose

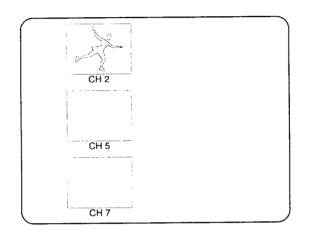
Provides a visual review of the last three (3) channels tuned on the TV.

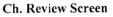
#### To Use Ch. Review

- 1. Press ADJUST (ADJ) Left/Right to start Ch. Review.
- 2. The TV will show small PIP-like views of the last three channels that were tuned.
- 3. Tune to a desired channel by pressing ENTER (ENT) while the picture in the PIP-like inset is active, or enter the channel number using the number keys on the remote.
- 4. Press MENU to return to the PIP Menu.

CH. GUIDE CH. REVIEW	START	
PIP SOURCE		
PIP COLOR		
PIP TINT		
PIP SIZE		

Selecting Ch. Review





#### **PIP SOURCE**

#### Purpose

Lets you select the equipment that supplies the picture to the PIP inset.

#### To Use PIP SOURCE

Press ADJUST (ADJ) Left/Right to toggle through your source options.

**NOTE:** If you "named" your sources (see SOURCE ID in the SETUP MENU section), these names will appear when toggling through the PIP SOURCE options.

CH. GUIDE CH. REVIEW PIP SOURCE PIP COLOR PIP TINT PIP SIZE	VIDEO 1

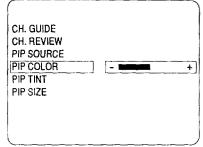
**Selecting PIP Source** 

### **PIP MENU**

### **PIP COLOR**

#### Purpose

Adjusts the intensity of the colors in the PIP inset. To Use PIP COLOR Press ADJUST (ADJ) Left/Right to decrease or increase the intensity of colors in the PIP inset.



Selecting PIP Color

### **PIP TINT**

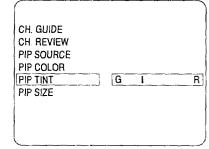
#### Purpose

Adjusts the color of the flesh tones.

#### To Use PIP TINT

If flesh tones are too red or purple, press ADJUST (ADJ) Left until you acheive the desired flesh tone.

If flesh tones are too green or have a greenish TINT, press ADJUST (ADJ) Right until you acheive the desired flesh tone.



Selecting PIP Tint

### PIP SIZE

#### Purpose

Lets you choose between seeing a larger or smaller PIP inset.

#### To Use PIP SIZE

Press ADJUST (ADJ) Left/Right to select either SMALLER or LARGER.

CH. GUIDE		
CH. REVIEW		
PIP SOURCE		
PIP COLOR		
PIP TINT		
PIP SIZE	SMALL	

Selecting PIP Size

#### PIP (PICTURE-IN-PICTURE) OVERVIEW

Your Zenith TV must be connected to a video component such as a VCR in order to view a different picture in the PIP inset. This video component must be connected to one of the TV's video/audio input jacks (VIDEO 1 IN or VIDEO 2 IN) by using Audio/Video cables. The most common use of PIP is to view two different channels; one from the TV tuner and the other from the VCR tuner. For example, you can view two sporting events or two movies at the same time.

#### **TYPICAL CONNECTIONS**

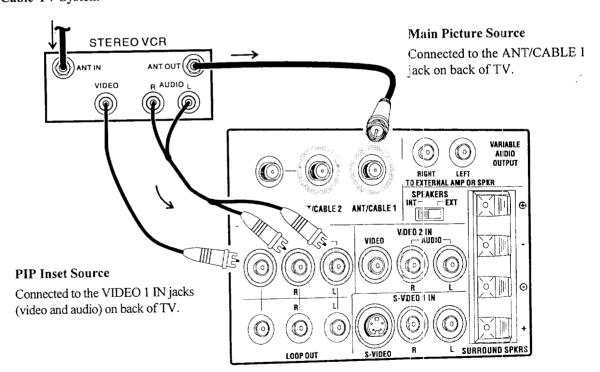
#### **Option 1: Antenna or Direct Cable Connection**

This illustration shows the basic connection of your TV to a stereo VCR. Using this connection, you are capable of the following operation:

 You may select ANT/CABLE 1 for main picture source to view channels tuned by the TV's channel selector.
 Simultaneously, you may select VIDEO 1 for PIP source to view — in the PIP inset — a tape playing in the VCR or a different channel tuned by the VCR's channel selector. (VCR's TV/VCR button must be set to TV.)

#### Connection From Antenna or Cable-TV System

 Sources may also be swapped. In other words, VIDEO 1 may be the main picture source and ANT/CABLE 1 the PIP source.



Option 1: Antenna or Direct Cable Connection (Optional cables not supplied with television.)

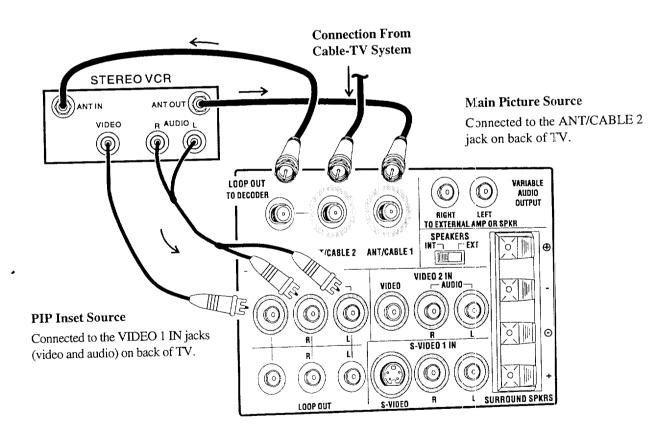
(continued on next page)

5

### **Option 2: Antenna or Direct Cable Connection Loop Out**

This illustration shows the basic connection of your TV to a stereo VCR. Using this connection, you are capable of the following operation:

- You may select ANT/CABLE 2 for main picture source to view channels tuned by the TV's channel selector. Simultaneously, you may select VIDEO 1 for PIP source to view — in the PIP inset — a tape playing in the VCR or a different channel tuned by the VCR's channel selector. (VCR's TV/VCR button must be set to TV.)
- You may select ANT/CABLE 1 for main picture source to view channels tuned by the TV's channel selector. Simultaneously, you may select VIDEO 1 for PIP source to view — in the PIP inset — a tape playing in the VCR or a different channel tuned by the VCR's channel selector. (VCR's TV/VCR button must be set to TV.)
- Sources may also be swapped: VIDEO 1 may be the main picture and ANT/CABLE 1 the PIP inset



Option 2: Antenna or Direct Cable Connection Loop Out (Optional cables not supplied with television.)

(continued on next page)

#### **Option 3: Cable Decoder Connection**

This illustration shows the connection of both a cable-TV decoder and a stereo VCR to your TV. Using this connection, you are capable of, but not limited to, the following operation:

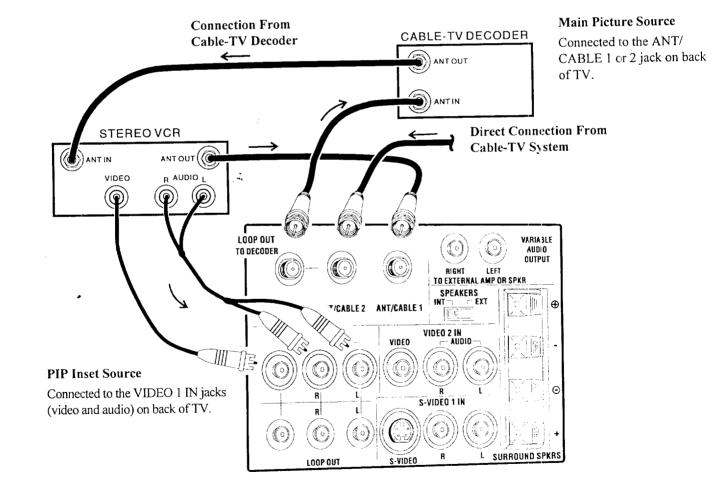
- You may select ANT/CABLE 2 for main picture source to view unscrambled cable channels tuned by the TV.
   Simultaneously, you may select VIDEO 1 for PIP source to view — in the PIP inset — a tape playing in the VCR or a different channel tuned by the cable decoder. (VCR's TV/VCR button set to VCR.)
- You may select ANT/CABLE 1 for main picture source to view premium cable channels tuned by the cable decoder. (Tune TV to channel 3 or 4.) Simultaneously, you may select VIDEO 1 for PIP source to view — in the PIP inset — a tape playing in the VCR. (VCR's TV/VCR button set to TV.)
- Sources may also be swapped. In other words, VIDEO 1 may be the main picture source and ANT/CABLE 1 the PIP inset.

# HOW TO SELECT MAIN PICTURE & PIP SOURCE

In order to watch a different picture in the PIP inset, you must choose a different picture source than the one used for your main TV picture. "Source" refers to the input jacks on the back of your TV set from which the video and audio signals are being received. These jacks correspond to the selections in the SOURCE MENU.

- ANT/CABLE 1 or 2 (Input from antenna, direct cable connection, or cable decoder)
- VIDEO 1, 2 or 3 (Input from VCR or camcorder)
- S-VIDEO 1 or 2 (Input from Super-VHS VCR)

(continued on next page)

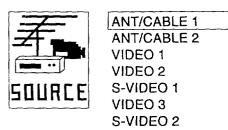


Option 3: Cable Decoder Connection (Optional cables not supplied with television.)

#### **To Select Main Picture Source**

The source for the main picture can be either ANT/CABLE 1 or 2 connections, or any of the VIDEO connections. The following example selects ANT/CABLE 1 for normal television viewing, which is the most common setup.

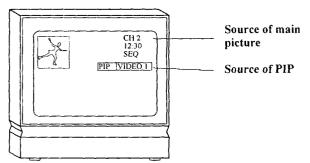
- 1. Select TV mode of operation for the remote control.
- 2. Press SOURCE on the remote control repeatedly until ANT/CABLE 1 is selected.



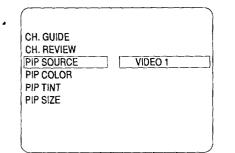
#### **To Select PIP Source**

The PIP inset source can be either ANT/CABLE 1 or 2 connections, or any of the VIDEO connections. The following example selects VIDEO 1 for the PIP source, which is the most common setup.

- 1. Select TV mode of operation for the remote control.
- 2. Press MENU on the remote until the PIP Menu is selected.



3. Use SELECT Up/Down to choose PIP SOURCE then press SOURCE repeatedly to select VIDEO 1.



- 4. Press ENTER to remove menus from the screen.
- 5. Press PIP on the remote to view the PIP inset.
- 6. Use the VCR to change the channel in the PIP inset, or to view a tape in the PIP inset.
- 7. Use ADJUST Left/Right and SELECT Up/Down to position the PIP inset anywhere on the TV screen.

### **PIP FUNCTIONS**

#### PIP

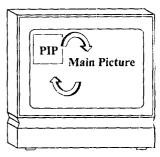
Press PIP to display the PIP inset. Press PIP again to remove inset.

#### Moving The Pip Inset Location

Use four-way arrows (ADJ/SELECT) to move PIP inset to the desired location on the TV screen.

#### Swap

Press SWAP to swap the main picture with the PIP inset. Press SWAP again to return to the original display.



Swap switches the Video from the Main Picture to the PIP inset and the PIP inset to the Main Picture

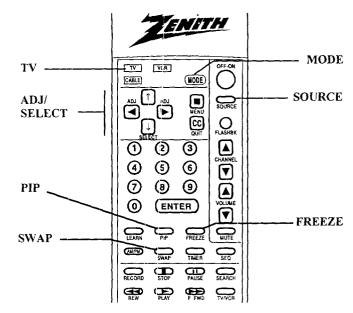
#### PIP Size

Select PIP Size in the PIP Menu to choose between seeing a large or small PIP inset.

#### Freeze

Press FREEZE to freeze motion of the picture shown in the PIP inset. Press FREEZE again to return to a live PIP inset.

When the PIP inset is not currently displayed, pressing FREEZE provides an instant PIP freeze-frame of the program you are watching. Press PIP again to return to normal TV viewing. This function can be used without a second source to retain a phone number or freeze a football play.



Typical Remote Your remote may differ from unit shown.

2736-0

# MAINTENANCE AND TROUBLESHOOTING

#### **CARING FOR YOUR TV**

Your TV will look better, have a longer life and perform better if you care for it properly.



First check to see that the TV is off. For added safety, unplug the TV from the power outlet. **NOTE:** If you unplug your TV, you will have to reset the clock to the current time.

#### **Picture Glass Cleaning**

The picture tube face attracts dust particles and should be cleaned regularly. To clean the face, spray a small amount of glass cleaner on a cleaning cloth and wipe the picture tube glass face until clean. Repeat if necessary.

To delay new dust accumulation, wet a soft cloth in lukewarm water in which a little fabric softener or Ivory dishwashing detergent has been mixed. Wring the cloth almost dry. Wipe the glass face. Make sure no drops of moisture are squeezed onto the glass. Do not wipe the glass dry. Allow the glass to air-dry before you turn the TV on again.

#### **Cabinet** Care

Non-Wood Cabinet or Cabinet Components.

Moisten a soft cloth with a mild soap solution or Ivory dishwashing detergent. Wipe the surface with a damp cloth. Then rinse the cloth in clean water and wipe the surface again. Allow the TV to air-dry before turning it on.

Wood Cabinets or Cabinet Components.

Use any good furniture cleaner and polish. Regular care will help preserve the finish.

#### EXTENDED ABSENCE

Before an extended absence (such as a vacation) you may want to unplug the power cord from the electrical wall outlet. This will protect the TV from possible damage from lightning or power line surges. If you have an outdoor antenna, you may also want to disconnect the antenna lead-in wires on the back of the TV. **NOTE:** If you unplug your TV, you will have to reset the clock to the current time.

#### **TV PICTURE INTERFERENCE**

Your TV picture may be affected by interference caused by one or a number of factors. These include:

Nearby Automobile Ignition, Electrical Appliances, etc. Which causes a speckled, streaked picture. This is most noticeable in weak signal areas.

**Snow in Picture** Caused by insufficient signal. Usually caused by the TV being located too far from the TV station or by an improper antenna installation.

Ghosts or Reflections Caused by signals being reflected from surrounding buildings, water tanks, or other high structures.

Radio Signal Police, amateur or CB radio transmitters may cause interference.

These interference problems can often be corrected through the use of a better antenna, signal amplifiers, or various filter devices. See your TV dealer for additional information, and available TV accessories.

## MAINTENANCE AND TROUBLESHOOTING

#### **BEFORE CALLING FOR SERVICE**

Check these items and see if you can correct the trouble by changing the adjustment of a control or the setting of a switch.

By making these simple checks before calling for service, you may save time and money.

Problem	Try This
Picture OK. Poor sound.	Re-orient antenna. Try another channel — possible station trouble. Check for local interference. Check AUTO TUNING and TUNING BAND options.
Sound OK. Poor picture.	Re-orient antenna. Try another channel — possible station trouble. Adjust VIDEO Menu options with PICTURE PREF. in CUSTOM mode.
No picture or sound.	Is TV on? Is there power in wall outlet? Is TV plugged in? Is antenna hooked up? Is cable hooked up? Is cable operational? Check auxiliary audio/videc equipment. Check channel selection. Check TUNING BAND and AUTO TUNING Menu options.
Picture blurred, ghost in picture, or distorted.	Check antenna or cable hook up for broken wires or loose connection. Try another channel — possible station trouble. Check for local interference.
No color, or poor color.	Try another channel — possible black and white program. Check antenna or cable hock up for broken wires or loose connection. Adjust VIDEO Menu options with PICTURE PREF. in the CUSTOM mode. Is it a color program?
No sound.	VOLUME (VOL) setting may be too low. Check MUTE button operation on remote control, if provided. Is Speaker EXT/INT switch in EXT position?
Cannot select certain channels.	Channels may be skipped in CH. ADD/DEL Menu option. Check TUNING BAND and AUTO TUNING options.
Remote control does not work.	Are batteries okay? Is TV turned ON? Is TV plugged in?
No closed captions.	Are captions available? Is CAPTION 1 or 2 selected by using the CAPTIONS option on the SETUP Menu.
Black or blue box covers 1/2 of screen.	Is text information available? Is TEXT 1 or 2 selected by using the CAPTIONS option on the SETUP Menu?
No picture or sound when VCR source is selected.	Is VCR hooked up properly? Are wires connected to VCR- VIDEO 1/2 jacks on connection center?
No sound or weak stereo sound when using a stereo VCR.	Check AUDIO mode? Is it STEREO? Was stereo present before selecting VIDEO 1/2 or S-VIDEO Source?
PIP is black when using VCR for PIP source.	Is VCR hooked up properly? Are wires connected to the VIDEO 1/2 input jacks on connection center? Is VCR selected for PIP source?
PIP lacks contrast when using VCR for PIP source.	Is VCR hooked up properly? Are wires connected to the VIDEO 1/2 input jacks on connection center?
PIP inset frame is snowy when using TV tuner for PIP and VCR for main picture.	Is TV/VCR switch on VCR in the TV position?

Always request that your technician use only genuine Zenith exact replacement parts for continued quality and safety performance. Keep your Zenith **ALL** Zenith. **NOTE:** If your TV fails to respond to any other menu selection, you must reset the TV. Simply disconnect the AC power. Wait a few minutes, then reconnect the AC power.

# **PRODUCT REGISTRATION CARD**

You could win a full refund on your new Zenith product.

Look for the Product Registration Card on your new video product.

Each month a drawing is held by Zenith from the completed Product Registration Cards received during the preceding month. Zenith will reimburse the winner for the full purchase price of the product purchased.

In order to participate, simply complete and return the Product Registration Card at once, even if you choose not to complete the information and interests portion of the questionnaire.

#### Product Card lost or misplaced?

The Product Registration Card furnished with your video product is pre-printed with its Model and Serial numbers. Please fill out the card and mail it at your earliest convenience. It is imperative that Zenith know how to reach you promptly if we discover a safety problem that would affect you. If the original card has been lost or misplaced, you may use the replacement card provided below. Either card will qualify you for the free drawing, but you are limited to only one entry in the drawing. Complete the card, place it in an envelope and mail it to:

#### Zenith Electronics Corporation P. O. Box 173257 Denver, CO 80217-3257

Use the replacement Product Registration Card only if the original card has been misplaced or lost.

The odds of winning the free drawing described above, depend on the number of participants. Free drawing offer is void in Canada and other places where restricted or prohibited by law. Offer is void for Hotel/Motel and Institutional models. Rental models are not eligible.

#### PHOTOCOPY AND CUT ALONG DASHED LINE H5Z01-01 Zenith Product Registration Card (2) Area Code Telephone (1) Please Print Clearly or Type 1. Mr. 2. Mrs. 3. Ms. 4. Miss Initial Last Name First Name Apt. No. Street City (3)Date of Purchase Day Mo. Yr. Zip Code State MODEL NUMBER Please record the model number Copy Numbers Here and serial number from the sticker From Label on Set on the back of your set. SERIAL NUMBER

# **BROKEN OR LOST REMOTE CONTROL?**





For an Exact Replacement Remote Control for your new Zenith Television, see your local Zenith Dealer or order direct by calling 1-800-255-6790. To assure the correct remote for your new Zenith, please have your television's model number ready! **ONLY \$39.95** 

# **OTHER FINE ACCESSORIES FOR YOUR TELEVISION.**

### Wireless Speaker System:

- Wireless speakers receive sound from TV, VCR, or Stereo through walls, floors, or outside.
- Creates an instant home entertainment center!
- · Speakers are easy to move -- "no cord clutter." An attractive addition to any room.
- Works up to 150 feet! Indoors and outdoors.



ZEN800 WIRELESS SPEAKER SYSTEM ONLY \$199.95



### Wireless Headphone System:

- Wireless Headphones receive sound from TV. VCR or Stereo through walls, floors or outside.
- Allows freedom of activity while relaxing working around your home.
- Great for bedroom TV--listen without disturbing others.
- Works up to 150 feet! Indoors and outdoors.
- Great for the hearing-impaired.

ZEN801 WIRELESS HEADPHONE SYSTEM ONLY \$99.95

		PHUTUGUPY	PAGE AND DETAU	H NEKE			
To order these fine acce please fill out this card a return a photocopy to:		ITEM NUMBER	DESCRIPTION		QUANTITY	PRICE PER ITEM	TOTAL PRICE
Attn: Accessory Offers Zenith Video Tech Corporation 1000 Milwaukee Avenue Glenview, Illinois 60025-2493 or call <b>1-800-255-6790</b>							
			Sales Tax: Please add your state sales tax if you live in one of the following states. CA 7 3/4%, GA 4%, IL 8 3/4%, KS 4.9%, KY 6%, ME 8%, PA 8%, RI 7%, TX 7 3/4%, VA 4 1/2%, WA 8.2%.		SUBTOTAL		
					STATE SALES TAX		
(Made payable to Zenith V	/ideo Tech Corp.)				SHIPP	ING & HANDLING	\$4.50
🗌 Visa 📋 Masterca	ard				TOTAL AN	IOUNT OF ORDER	
Account #	·		- <b>--</b> 1	SHIP TO:	L		<u></u>
				Telephone: ()			
Expiration Date:	Signature:			Name:			
IMPORTANT: PLEASE BE SURE	TO COMPLETE THE INFO	DRMATION BELOW.		Address:			
TV Model Number TV Serial Number		/		Apt. #	City		
(from sticker on back of unit) (from sticker on back of	unit) (Approx. date	of purchase.)	State	Zip Code -			
PLEASE ALLOW UP TO 3 WEE	KS FOR DELIVERY. THA	NK YOU!		NOTE: Orders c	an only be sent	to customers within the	United States.
TVACCCA					•		

TVACCS6A

# YOUR ZENITH WARRANTY

#### **Consumer Protection Plan for Zenith TV**

Welcome into the Zenith family! We believe that you will be pleased with your new Zenith Color TV. Please read this Consumer Protection Plan 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's 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.

**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 19" 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 dealers 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 19" 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 antennas 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 your Zenith dealer preferably, or 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, write:

> Zenith Electronics Corporation Customer Service Department 1000 Milwaukee Avenue Glenview, IL 60025-2493 Telephone: (847) 391-8752 Mon-Fri, 8:00 a.m. - 4:30 p.m. Central Time

**NOTE:** Before you ask for Warranty service, check the Operating Guide section entitled, "MAINTENANCE AND TROUBLESHOOTING." It may be possible to avoid a service call.

ZENITH ELECTRONICS CORPORATION 1000 MILWAUKEE AVENUE GLENVIEW, ILLINOIS 60025

.

•

e,

Part No. 206-2735 Printed in U.S.A. EP-EDC