



¡Aviso para nuestros clientes de habla hispana: consulte la información que aparece al final de este manual!







## WARNING





### **WARNING:**

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

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



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.

### **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	QUICK REFERENCE TO ON-SCREEN MENUS
Welcome	Available Menus
CONNECTIONS FOR YOUR TV	Menu Operation Example
Connection Center on Back of TV	SETUP MENU
Step 1. Make Basic Connection to TV	Auto Program       7-1         Ch. (Channel) Add/Del       7-1
THE FIRST TIME YOU OPERATE YOUR TV	Tuning Band       7-2         Auto Tuning       7-2
Step 1. Connect the Power.       2-1         Step 2. Use Auto Program.       2-1         Step 3. Set the Clock.       2-1         Step 4. Use Other Options.       2-1	Clock Set       7-2         Captions       7-3         Audio       7-3
GETTING TO KNOW YOUR TV	VIDEO MENU
Typical Control Panel         3-1           Sleep Timer         3-1	Contrast       8-1         Brightness       8-1         Color       8-1
REMOTE CONTROL MODEL SC3390	Tint
OPERATION.         4-1           Preparation for Use         4-2	Sharpness         8-1           Picture Pref. (Preference)         8-1
Installing Batteries	MAINTENANCE AND TROUBLESHOOTING
REMOTE CONTROL MODEL MBR3420	Caring for Your TV9-1
Introduction       5-1         Choosing Operating Mode       5-1         TV Operations       5-2	Extended Absence 9-1 TV Picture Interference 9-1 Before Calling for Service 9-2
VCR Operations	Product Registration Card
Cable-TV Operations	Recommended Accessories for Your Television
Installing Batteries	Aviso para nuestros clientes de habla hispana
Programming Brand Codes	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. Different control panels and remote controls may be used from model-to-model. Refer to the applicable 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 many regional Zenith distributors and thousands of distributor-approved Zenith 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 distributor-approved Zenith service center, contact the regional Zenith distributor in your area, or write:

**Zenith Electronics Corporation** 

Customer Service Department 1900 N. Austin Avenue Chicago, Illinois 60639-5079 Telephone: (312) 745-5152

Mon-Fri, 8:00 a.m. - 4:30 p.m. Central Time

Send 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 protec-
tion, 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.

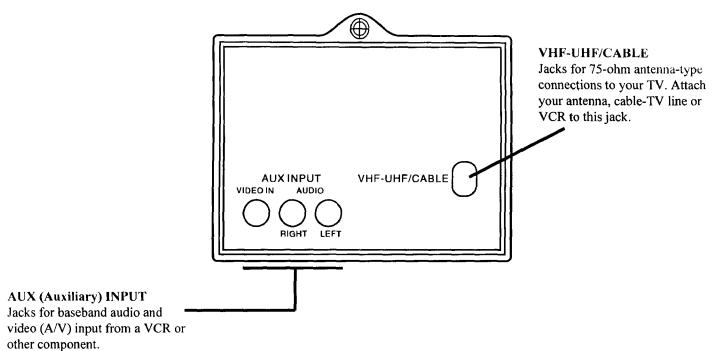
FIXED PATTERN DISPLAY CAUTION — If you use your TV for video games, teletext or other fixed displays, avoid setting the BRIGHTNESS control for an excessively bright picture. A bright, fixed pattern, if used for long periods of time, can result in a permanent imprint on the TV picture tube. You can reduce 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.

CHWELC2

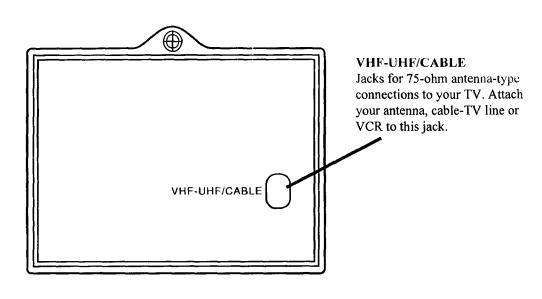
# **CONNECTIONS FOR YOUR TV**

### CONNECTION CENTER ON BACK OF TV

Your television will have one of two types of connection centers on the back. Refer to the illustrations below to determine which connection center is on your TV model.



Connection Center With Auxiliary Jacks



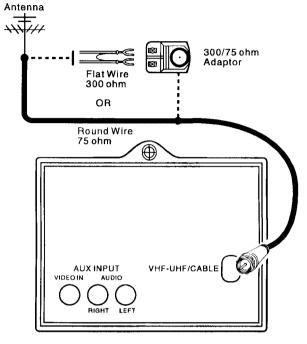
Connection Center Without Auxiliary Jacks

2733-0 1 — 1

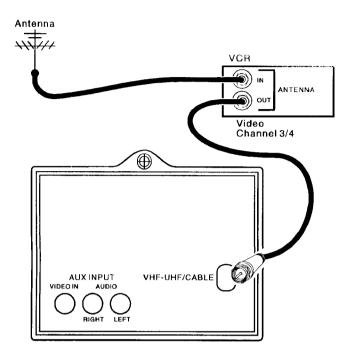
# **CONNECTIONS FOR YOUR TV**

### STEP 1. MAKE BASIC CONNECTION TO TV

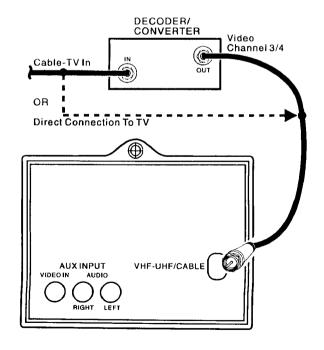
Select the hook up that best fits your needs.



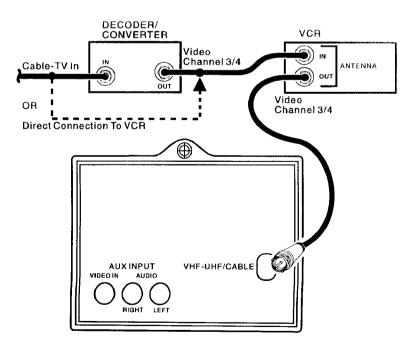
Antenna Direct to TV



Antenna Through VCR to TV



Cable Direct to TV



Cable Through VCR to TV

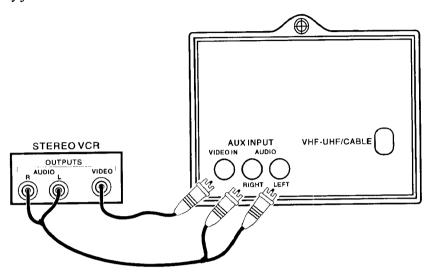
# **CONNECTIONS FOR YOUR TV**

## STEP 2. MAKE VCR CONNECTIONS TO TV

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

**NOTE:** The Auxiliary connections are only valid for those TVs which have auxiliary jacks.

To use these VCR connections, you must watch the AUX channel on the TV. To select the AUX channel, press CHANNEL (CH) Up/Down until you select the next channel after the highest/lowest channel.



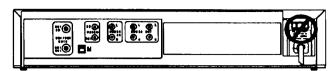
2733-0 1 — 3

# THE FIRST TIME YOU OPERATE YOUR TV

### STEP 1. CONNECT THE POWER

A.Plug your TV into an unswitched AC power source.

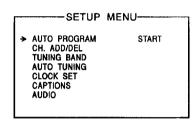
B.Turn the TV on by pressing OFF-ON.



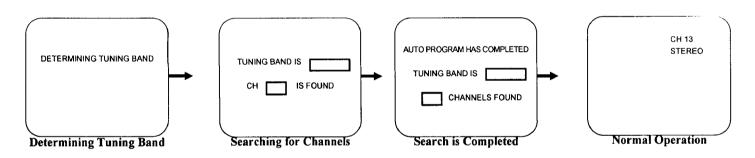
Do not plug TV into switched outlet on a VCR or cable-TV decoder

### STEP 2. USE AUTO PROGRAM

When your TV is first powered up you will see the AUTO PROGRAM reminder display. AUTO PROGRAM finds all available channels and stores them in the memory of the TV. To activate AUTO PROGRAM, press ADJUST (ADJ) Left/Right.

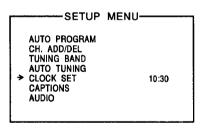


Setup Menu with Auto Program Highlighted



### STEP 3. SET THE CLOCK

- 1. Press MENU repeatedly until the SETUP MENU is shown.
- 2. Press SELECT (SEL) to highlight CLOCK SET.
- 3. Use numbered buttons on remote control to enter correct time or use ADJUST (ADJ) Left/Right to advance the clock.
- **4.** Press ENTER (ENT) to start the clock and return to normal viewing.



Setup Menu with Clock Set Highlighted

### STEP 4. USE OTHER OPTIONS

You may want to consider using the following options:

- Program the channels accessed by using CHANNEL (CH) Up/Down. Refer to the CH. (Channel) ADD/DEL option for details.
- Turn on Closed Captions using the CAPTIONS option.

## **GETTING TO KNOW YOUR TV**

### TYPICAL CONTROL PANEL

The control panel on your TV may differ from the one shown. **NOTE:** Some TVs have a vertical control panel — the operation is the same as described for the control panel shown.

### **ENTER (ENT)**

Press to see the Channel/Time display, or to remove any on-screen display or menu.

### SELECT (SEL)

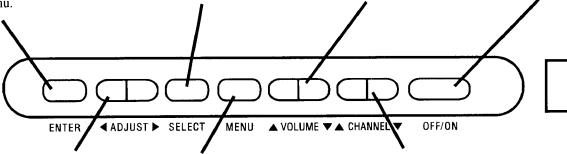
Press during on-screen menu operations to select a menu option.

### VOLUME (VOL) Up/Down

Press to increase or decrease the sound level.

### **OFF-ON**

Press to turn TV power ON or OFF.



### ADJUST (ADJ) Left/Right

Press during on-screen menu operation to see information/status display for selected option. Press again to adjust the selected menu option.

### **MENU**

Press once to see a menu. Press repeatedly to sequence through the available menus.

### CHANNEL (CH) Up/Down

Press to select channels higher or lower than the channels being viewed. You can add channels to or delete channels from the scanning sequence stored in memory of the TV. See CH. ADD/DEL option for channel programming information.

### Remote Window

Point the remote control towards this window to operate the TV.

### **SLEEP TIMER**

Some remote controls are equipped with a TIMER button that provides access to the SLEEP TIMER available with some TV models. By using the SLEEP TIMER, you can program the TV to automatically shut off after a period from 15 minutes up to 4 hours.

### To Set SLEEP TIMER

- 1. Press TIMER to see SLEEP TIMER display.
- 2. Press TIMER repeatedly until you reach desired shutoff time.

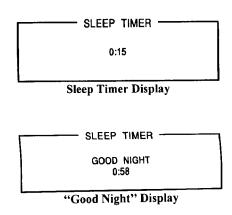
One minute before the TV shuts off, the GOOD NIGHT display appears on the screen. At this time you have a choice of the following three actions.

- 1. Do nothing. The GOOD NIGHT display remains on the screen. The TV will shut off in one minute.
- 2. Remove the GOOD NIGHT display by pressing ENTER (ENT). The TV will still shut off in one minute.
- 3. Delay the shut off by using TIMER to select a new shut off time.

### To Cancel the SLEEP TIMER

You can cancel the SLEEP TIMER by setting the SLEEP TIMER status to OFF. Press TIMER repeatedly until OFF is selected.

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



3 --- 1

# **REMOTE CONTROL MODEL SC3390**

### **OPERATION**

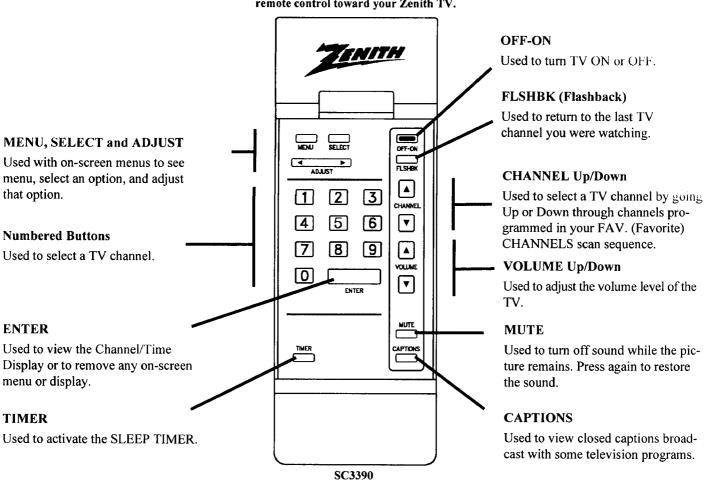
This remote control provides access to all on-screen menus, as well as, access to special features that cannot be accessed by using the control panel on the TV.

### PREPARATION FOR USE

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



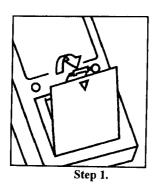
For optimum performance, point the remote control toward your Zenith TV.

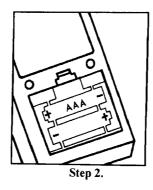


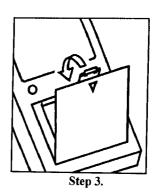
### **INSTALLING BATTERIES**

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

**NOTE:** Zenith is not responsible for damage caused by battery leakage.







### INTRODUCTION

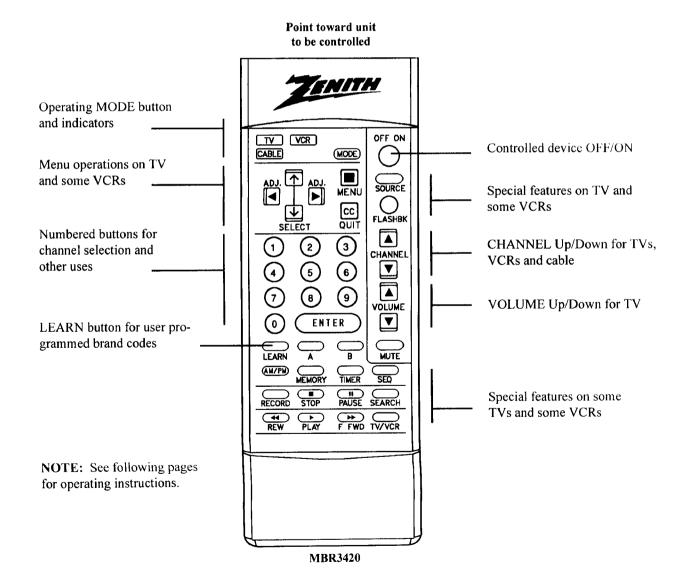
The multi-brand remote control supplied with your new Zenith TV allows you to operate most models of infra-red (IR) remote-controlled TVs, VCRs, and cable-TV decoders, even if they are all different brands.

Your multi-brand remote has already been programmed to operate your Zenith TV, a Zenith cable-TV decoder and a Zenith VHS VCR. It must be programmed to operate other brands of equipment. Refer to the "Programming Brand Codes" section for more information.

### **CHOOSING OPERATING MODE**

To use the remote to operate your TV, a cable-TV decoder or a VCR, you must first choose the mode of operation of the remote control. To select the mode of operation, press MODE repeatedly until the corresponding indicator lights.

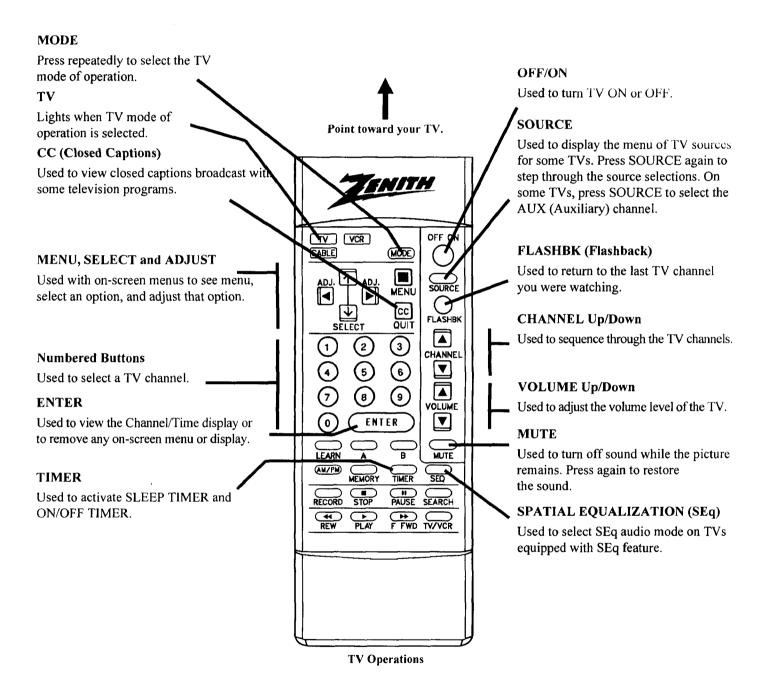
Some controls on the remote will always operate a particular appliance. For example, VOLUME always operates the TV and PLAY always operates the VCR. The functions of some controls depends on the selected operating mode of the remote.



2733-O 5 — 1

### 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.

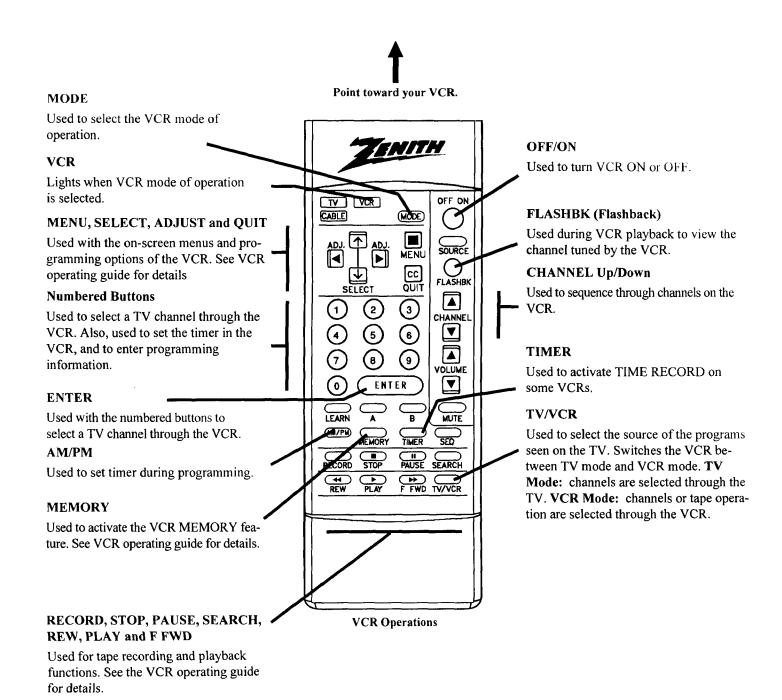


2733-0 5—2

### **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.

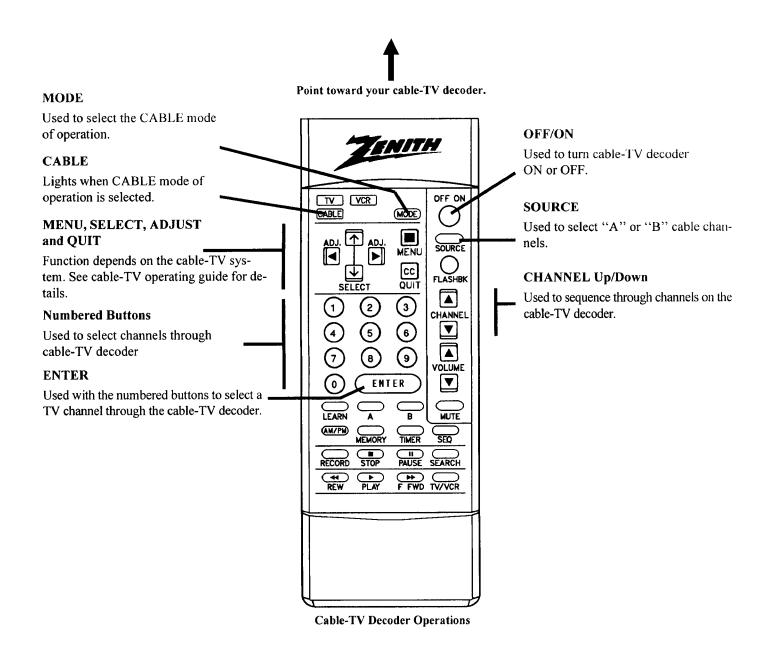


2733-0 5—3

### **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.



2733-0 5 — 4

### PREPARATION FOR USE

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

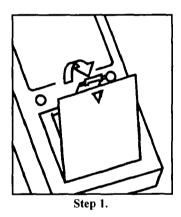
### **INSTALLING BATTERIES**

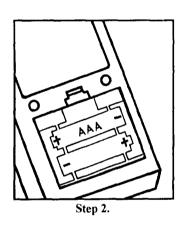
When the effective operating range of your remote becomes noticeably shorter, replace the batteries with two (2) high quality, alkaline, size AAA batteries.

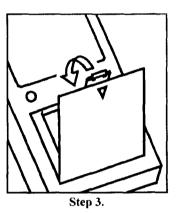
After installing new batteries, the remote control will set itself to Zenith brand codes, as follows: TV=101, VCR=201 and CABLE=301.

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

**NOTE:** Zenith is not responsible for damage caused by battery leakage.







### PROGRAMMING BRAND CODES

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 TV, Zenith VHS VCR or a Zenith cable-TV decoder, it 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 up "Zenith" in "Table 1.", and find code "101."

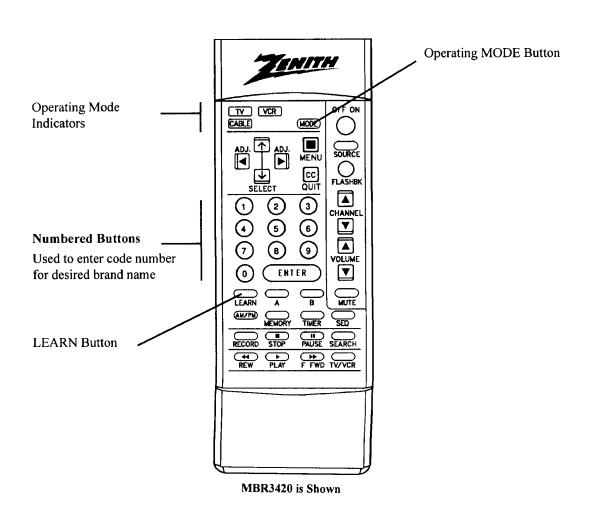
Write the brand codes for your equipment on the following lines.

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 BRAND CODES

TV, VCR AND CABLE-TV BRAND CODES  Table 1. TV Codes by Brand   Table 2. VCR Codes by Brand							
-			_				
TV Brand Name	Code	TV Brand Name C	ode	VCR Brand Name	Code	VCR Brand Name	Code
Admiral	116	Montgomery Ward	119 121	Akai Audio Dynamics	223 202	Pentax Philco	215 214
Admiral Akai	121 104	Montgomery Ward Montgomery Ward	130	Audio Dynamics  Audio Dynamics	218	Philips	214
Amark	104	~ .	104	Broksonic	221	Philips	227
AOC		NEC	119	Canon	214	Pioneer	210
Bell & Howell	121	Panasonic	106	Citizen	209	Pioneer	215
Centurion		Panasonic	107	Craig	212	Pioneer Laser Disk	228
Coronado	103	Philco	103	Curtis Mathes	214	Quasar	214
Curtis Mathes	116	Philco	104	Curtis Mathes	216	RCA	215
Curtis Mathes	119	Philco	112	DBX	202	RCA	216
Curtis Mathes	121	Philco	113	DBX	218	RCA	220
Daytron	119	Philips	112	Emerson	203		227
Emerson	103	Philips	113	Emerson	221	Realistic	206
Emerson	104		135	Emerson	223	Realistic	208
Emerson	123		103	Emerson	226		212
Emerson	124	Quasar	106	Emerson	233	Realistic	214
Emerson	131	Quasar	107	Emerson	235		231
Emerson		Realistic	105	Fisher	211	Samsung	220
Fisher		Realistic	123	Fisher	212	Samsung	230
Fisher		Realistic	124	Fisher	213	Sanyo	206
General Electric		RCA	104	Funai	231 214	Sanyo Scott	212 204
General Electric		RCA	116	General Electric General Electric		Scott	204
General Electric		RCA	126 119	General Electric	210		233
General Electric Goldstar	116 103	•	103	Goldstar	209		206
Goldstar	103	-	119	Hitachi	215		209
Goldstar	119	U	134	Instant Replay	214		211
Hitachi	102	Sanyo	108	Instant Replay	227	Sears	212
Hitachi	102	•	109	JVC	202		215
Hitachi	129	•	118	JVC	225	Sharp	208
JVC	125	•	119	J.C. Penney	214	Sony VHS	232
JVC		Sears	103	J.C. Penney	218	Sony Video 8	217
J.C. Penney	104		108	J.C. Penney	227	Sylvania	207
J.C. Penney	110	Sears	109	Kenwood	202	Sylvania	214
J.C. Penney	114	Sears	110	Magnavox	207	Sylvania	227
J.C. Penney	117	Sears	111	Magnavox	214	Symphonic	231
J.C. Penney	119	Sears	118	Marantz	207	Tashiko	209
KMC	103	Sears	134	Marantz	218	Tatung	202
KTV	103	Sharp	103	Marta	209	Teac	202
KTV	104	Sharp	105	Memorex	212		231
Lodgenet	121	Sharp	122	Memorex		Teknika	234
Logik	121	Sharp	133	Memorex	231	Toshiba	205
LXI	133	Sharp	137	MGA/Mitsubishi	204	Toshiba	215
LXI	137	•	115	MGA/Mitsubishi	222	Vector Research	204
Magnavox	103	•	112	Montgomery Ward		Vector Research	218
Magnavox		Sylvania	113	Montgomery Ward		Yamaha	202
Magnavox	113	Sylvania	117	Montgomery Ward		Yamaha	218
Magnavox	119	•	119	NEC	202	Zenith VHS	201
Magnavox	127	•	127	NEC Panasonic	218	Zenith VHS Zenith VHS	225 229
Magnavox	128	Sylvania	128	Panasonic	214	Zemui viis	229
Majestic Marantz	121 104		106 103	1			
	120		112				
Marantz Memorex	120	Teknika	121	1			
MGA/Mitsubishi	104	Teknika	124				
MGA/Mitsubishi	119		103	1			
MGA/Mitsubishi	120		121				
MGA/Mitsubishi	130		110	1			
Montgomery War			111				
Montgomery War			134				
Montgomery War		Yorx	119	1			
Montgomery War		Zenith	101				
Montgomery War				I			
-				I	_	7	

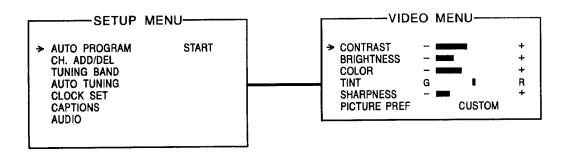
Table 3. Cable Decoder Codes by Brand					
Cable Decoder		Cable Decoder			
Brand Name	Code	Brand Name	Code		
Drake Satellite	312	Pioneer	315		
Drake Satellite	330	Regency	329		
Gemini	305	Samsung	335		
Gemini	331	Scientific Atlanta	316		
General Instrumen	t 305	Scientific Atlanta	323		
General Instrumen	t 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		
NSC	335	Zenith AV3000	327		
Oak	311	Zenith Satellite	312		
Oak	332	Zenith Satellite	330		
Panasonic	313	Zenith Satellite	328		
Panasonic	320	Zenith Laser Disk	326		
Paragon (Zenith)	333				

**5** — 7

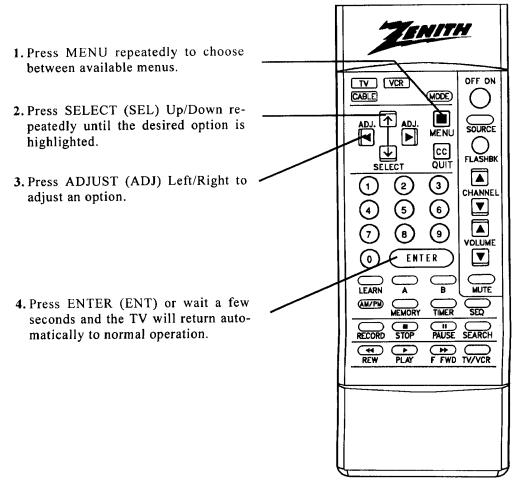
# QUICK REFERENCE TO ON-SCREEN MENUS

## **AVAILABLE MENUS**

Your TV is menu operated, that is, adjustments that can be made to the TV appear on the screen in a list of choices you can make.



### **BASIC MENU OPERATION**



**Typical Remote Control Shown** 

# QUICK REFERENCE TO ON-SCREEN MENUS

### **MENU OPERATION EXAMPLE**



Press MENU repeatedly until the desired menu is shown. This example shows choosing the SETUP MENU.

AUTO PROGRAM S

START

CH. ADD/DEL TUNING BAND AUTO TUNING CLOCK SET CAPTIONS AUDIO

23 V SELECT

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

SETUP MENU-

AUTO PROGRAM
CH. ADD/DEL
TUNING BAND
AUTO TUNING
CLOCK SET
CAPTIONS
AUDIO

CABLE-CATV

ADJ. ADJ.

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

Available options for TUNING BAND.

BROADCAST CABLE-CATV CABLE-HRC CABLE-ICC

SETUP MENU-

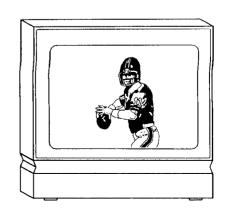
CH. ADD/DEL
TUNING BAND
AUTO TUNING
CLOCK SET
CAPTIONS
AUDIO

**AUTO PROGRAM** 

CABLE-CATV



Press ENTER (ENT) or wait a few seconds and the TV will return to normal operation.



2733-O 6 — 2

## **SETUP MENU**

### To Access SETUP MENU

Refer to the "Quick Reference to 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.

# SETUP MENU AUTO PROGRAM START CH. ADD/DEL TUNING BAND AUTO TUNING CLOCK SET CAPTIONS AUDIO SETUP MENU



SETUP MENU While AUX Channel is Chosen

### **AUTO PROGRAM**

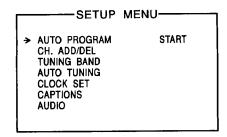
### Purpose

Finds all available channels and stores them in the memory of the TV for access 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.

### To Use AUTO PROGRAM

Press ADJUST (ADJ) Left/Right to start AUTO PROGRAM.



Selecting Auto Program

# AUTO PROGRAM HAS COMPLETED TUNING BAND IS \_\_\_\_\_\_ CHANNELS FOUND

Status When Search is Complete

### 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 the CH. ADD/DEL option.

## CH. (Channel) ADD/DEL

### Purpose

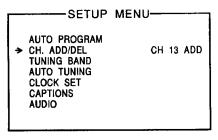
Lets you add channels to and remove channels from the active channels found when using the AUTO PROGRAM option. In this way you can customize the channels that are accessed through CHANNEL (CH) Up/Down.

### To Add a Channel to Scan Sequence

- Use numbered buttons to select the channel you wish to add.
- 2. Add channel by pressing ADJUST (ADJ) Left/Right until the display shows ADD.

### To Delete a Channel from Scan Sequence

- 1. Use numbered buttons to select the channel you wish to delete.
- 2. Delete channel by pressing ADJUST (ADJ) Left/Right until the display shows DEL.



Selecting Ch. Add/Del

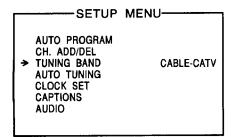
## **SETUP MENU**

### **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.



Selecting Tuning Band

### To Use TUNING BAND

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

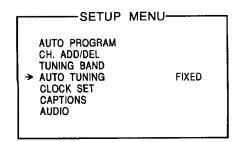
The channels that are available in the broadcast and cable tuning bands are shown below:

BROADCAST Band — VHF 2 to 13, UHF 14 to 69 CATV, HRC and ICC Bands — 1 to 125

### **AUTO TUNING**

### Purpose

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



Selecting Auto Tuning

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

### To Use AUTO TUNING

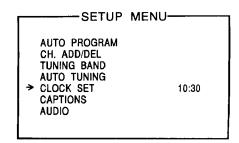
Press ADJUST (ADJ) Left/Right to select the mode of operation that gives you the most channels:

- 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 cable-TV systems, VCRs and video game controllers.

### **CLOCK SET**

### Purpose

Sets the clock in the TV to the correct time.



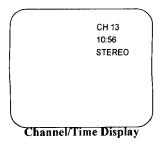
Selecting Clock Set

### To Use CLOCK SET from Remote Control

Use the numbered buttons on the remote control to enter the correct time. Press ENTER (ENT) to start the clock.

### To Use CLOCK SET from Control Panel

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

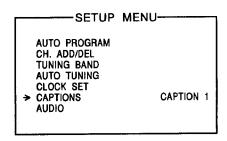


## **SETUP MENU**

### **CAPTIONS**

### Purpose

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

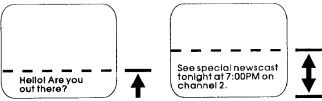


**Selecting Captions** 

### To Use CAPTIONS

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

At the time of this writing, very little appears in any selection except CAPTION 1. Therefore you should select CAPTION 1 and leave it in that selection unless you know there is something you want to see in one of the other selections. Once you make a selection, that selection is remembered until you change it.



**Typical Captions Display** 

Captions may be shown anywhere on the screen.

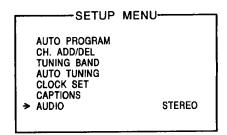
### **Typical Text Display**

Fixed size text window fills lower half of screen. May be all black when no information is shown.

### **AUDIO**

### Purpose

Determines whether your TV is operating in STEREO mode or MONO mode.



Selecting Audio

### To Use AUDIO

Press ADJUST (ADJ) Left/Right to select one of the following options:

STEREO: Directs the sound to the left and right speakers as supplied by the program source (broadcast TV, VCR, etc.).

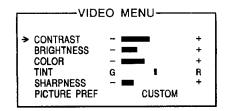
MONO: Directs the same sound to both the left and right speakers even of the source being received is in stereo.

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.

When STEREO is selected but is not being received on the channel, a message appears stating that "THIS PROGRAM IS NOT IN STEREO."

The Channel/Time display shows whether the current program is in STEREO or MONO.

# **VIDEO MENU**



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.
PICTURE PREF. (Preference)	Lets you decide if you want to use your own CUSTOM video settings, or the factory PRESET video settings.

### To Access VIDEO MENU

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

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

### To Use Video Settings

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

**NOTE:** Any adjustment made to these settings while PICTURE PREF. is in PRESET mode will automatically store the current settings as the CUSTOM setting.

To Use PICTURE PREF. (Preference)

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

2743-0 8 — 1

# 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.

C12CARE1

# MAINTENANCE AND TROUBLESHOOTING

### BEFORE CALLING FOR SERVICE Check these items and see if you can correct the trouble by By making these simple checks before calling for service, you changing the adjustment of a control or the setting of a switch. 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 on SETUP MENU. Re-orient antenna. Try another channel — possible station Sound OK. Poor picture. trouble. Adjust VIDEO MENU options with PICTURE PREF. in CUSTOM mode. Trouble with cable-TV system? Is TV on? Is there power in wall outlet? Is TV plugged in? Is No picture or sound. antenna hooked up? Is cable hooked up? Trouble with cable-TV system? Check auxiliary audio/video equipment. Check channel selection. Check TUNING BAND and AUTO TUNING options on SETUP MENU. Check antenna or cable hook up for broken wires. Try Picture blurred or distorted. Ghost in picture. another channel — possible station trouble. Check for local interference. No color, or poor color. Is it a color program? Check antenna or cable hook up for broken wires. Adjust VIDEO MENU options with PICTURE PREF. in the CUSTOM mode. No sound. VOLUME (VOL) setting may be too low. Check MUTE button operation on remote control. Channels may be skipped in CH. ADD/DEL option on Cannot select certain channels. SETUP MENU. Check TUNING BAND and AUTO TUNING options on SETUP MENU. Are captions available? Is CAPTION 1 or CAPTION 2 No closed captions selected using the CAPTIONS option on the SETUP MENU? Black or blue box covers half of screen. Is TEXT 1 or TEXT 2 selected using the CAPTIONS option on the SETUP MENU and is text information available?

Always request that your technician use only genuine Zenith exact replacement parts for continued Quality and Safety performance. Keep your Zenith ALL Zenith.

No picture or sound when AUX channel is selected.

No stereo sound or weak stereo sound when using a

NOTE: If your TV fails to respond to the PICTURE PREF. selection, or to any other menu selection, you must reset the TV. Simply disconnect the AC power cord from the power outlet. Wait a few minutes, then plug the TV back into the power outlet. You will have to reset the clock to the current time.

Is audio/video source hooked up properly? Are all wires connected to AUX INPUT jacks on connection center?

Check AUDIO mode. Was stereo sound present before

Are batteries okay? Is TV turned ON? Is TV plugged in?

selecting AUX channel?

stereo VCR.

Remote control does not work.

# 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.

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.

### 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.

#### PHOTOCOPY AND CUT ALONG DASHED LINE

1	HOTOCOPY AND CUT ALONG DASHED LINE	
Zenith Produc	t Registration Card	H5Z01-01
① Please Print Clearl	y or Type ② Area Code Telephone	
1. Mr. 2. Mrs.	3. Ms. 4. Miss	
First Name	Initial Last Name	
Street		Apt. No.
City		
	3 Date o	of Purchase
State Zip Code	Mo.	Day Yr.
MODEL NUMBER		
	mbers Here bel on Set  Please record the and serial number on the back of you	r from the sticker
SERIAL NUMBER		

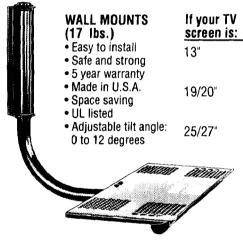
# **BROKEN OR LOST REMOTE CONTROL?**

Wakes a dreate was a control to and and

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
and serial number and date of purchase ready!

**ONLY \$39.95** 

# OTHER FINE ACCESSORIES FOR YOUR TELEVISION.



 If your TV screen is:
 Order this model

 13"
 CWM013
 ONLY \$69.95

 19/20"
 CWM020
 ONLY \$89.95

 25/27"
 CWM027
 ONLY \$99.95



# DELUXE AMPLIFIED 75 OHM INDOOR TV ANTENNA.

- Provides sharp, clear pictures
- VHF/UHF color & FM stereo reception
- VHF/UHF signal combiner circuitry
- · Includes:
  - · Matching transformer
- 4 ft. coaxial cable with connectors
- Designed and built in the U.S.A.

ATS 750 ONLY \$59.95

PHOTOCOPY PAGE AND DETACH HERE TOTAL To order these fine accessories, ITEM NUMBER DESCRIPTION QUANTITY PRICE PER ITEM PRICE please fill out this card and return a photocopy to: Attn: Accessory Offers Zenith Video Tech Corporation 1900 N. Austin Avenue Chicago, IL 60639 Sales Tax: Please add your state sales tax if you SUBTOTAL live in one of the following states. or call 1-800-255-6790 CA 7 3/4%, GA 4%, IL 8 3/4%, KS 4.9%, KY 6%, ME 8%, STATE SALES TAX ☐ Check or money order PA 8%, RI 7%, TX 7 3/4%, VA 4 1/2%, WA 6 1/2%. (Made payable to Zenith Video Tech Corp.) \$4.50 **SHIPPING & HANDLING** ☐ Visa ☐ Mastercard **TOTAL AMOUNT OF ORDER** Account # SHIP TO: Telephone: Expiration Date: \_\_\_\_\_ Signature: \_ Name: IMPORTANT: PLEASE BE SURE TO COMPLETE THE INFORMATION BELOW. Address: City Apt. # \_\_ TV Model Number TV Serial Number Mo. Day (Approx. date of purchase.) (from sticker on back of unit) (from sticker on back of unit) Zip Code -PLEASE ALLOW UP TO 3 WEEKS FOR DELIVERY. THANK YOU!

# 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 U.S. or Canadian distributor-approved Zenith service center when needed as a result of manufacturing defects.

Parts — New or remanufactured replacements for factory-defective parts will be supplied by a U.S. or Canadian distributor-approved 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.

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 or 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 distributor-approved Zenith 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 distributor-approved Zenith 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 1900 N. Austin Avenue Chicago, Illinois 60639-5079 Telephone: (312) 745-5152 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.