

**OPERATING GUIDE**

**&**

**WARRANTY**



THE QUALITY GOES IN BEFORE THE NAME GOES ON<sup>®</sup>

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

**SENTRY 2**

**Direct-View Color TV**

**MTS Stereo Audio**



*recycled paper  
50 percent*

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



## WARNING

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**



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

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 alternating-current 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.

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## 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. Some TV models do not include a remote control. 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 Zenith 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 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.**

**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.

# CONNECTIONS FOR YOUR TV

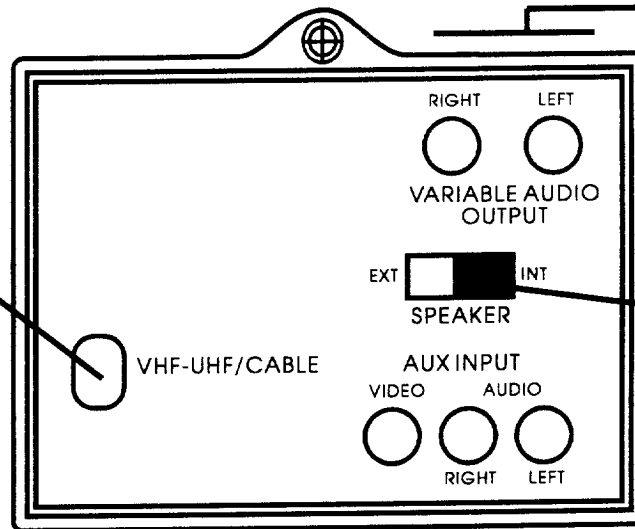
## CONNECTION CENTER ON BACK OF TV

### VHF-UHF/CABLE

Jacks for 75-ohm antenna-type connections to your TV. Attach your antenna, cable-TV line or VCR to this jack.

### VARIABLE AUDIO OUTPUT

Standard phono jacks for output to the customer's audio amplifier.



### SPEAKER EXT/INT

EXT: TV's speakers are off.  
INT: TV's speakers are on.

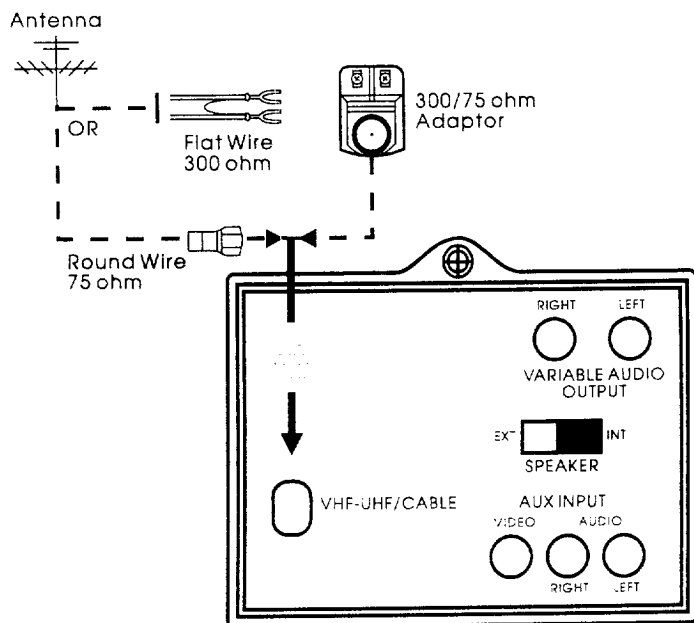
### AUX (Auxiliary) INPUT

Jacks for baseband audio and video (A/V) input from a VCR or other component.

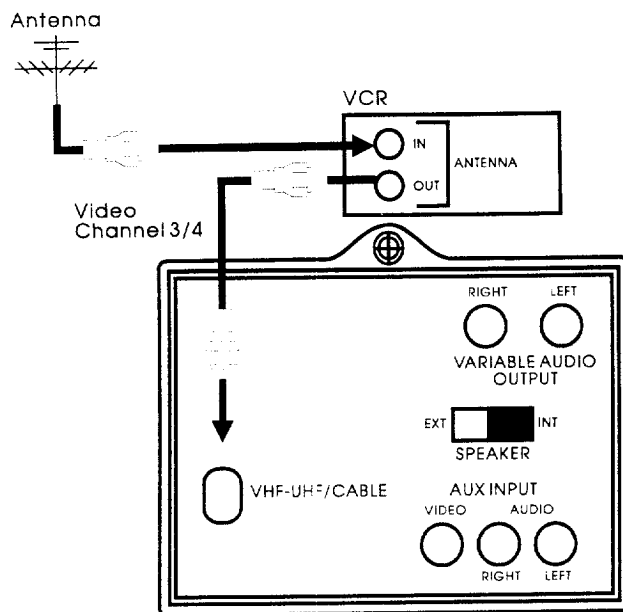
# CONNECTIONS FOR YOUR TV

## STEP 1. MAKE BASIC CONNECTION TO TV

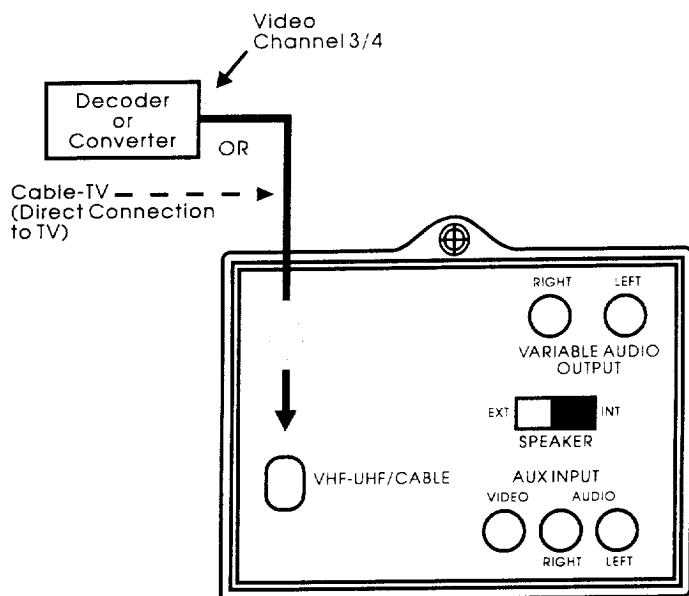
Select the hook up that best fits your needs.



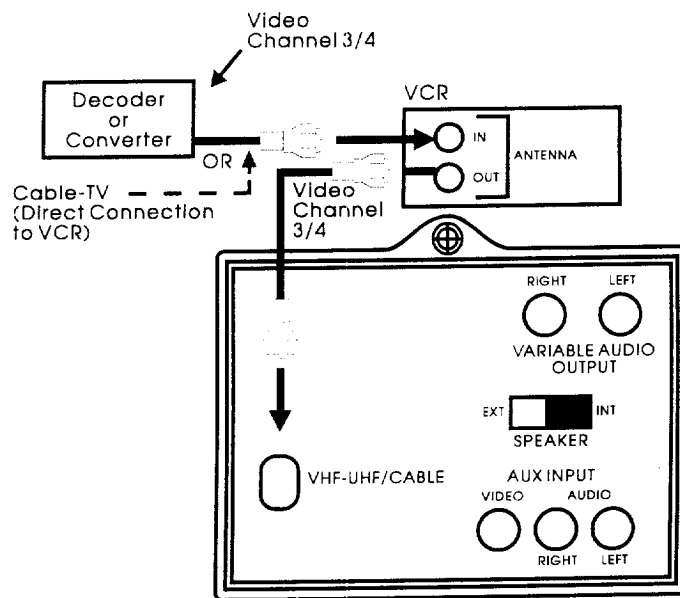
Antenna Direct to TV



Antenna Through VCR to TV



Cable Direct to TV



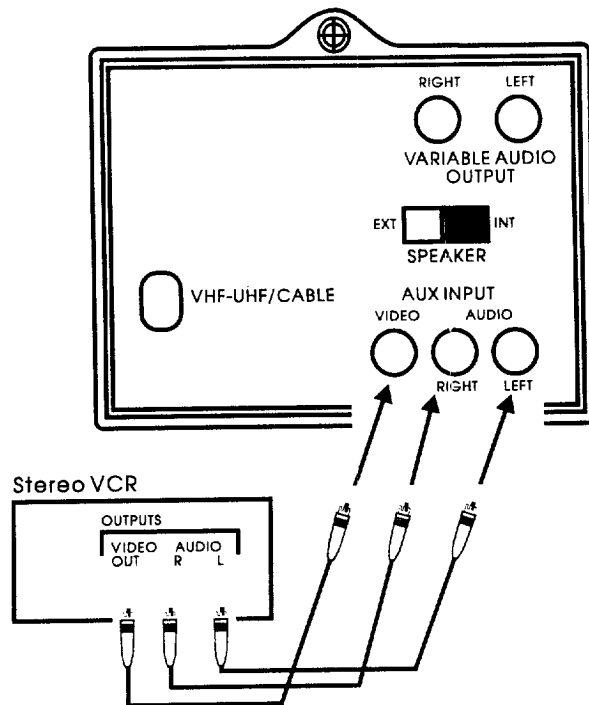
Cable Through VCR to TV

# 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.

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.



## STEP 3. MAKE AUDIO CONNECTION TO STEREO AMPLIFIER

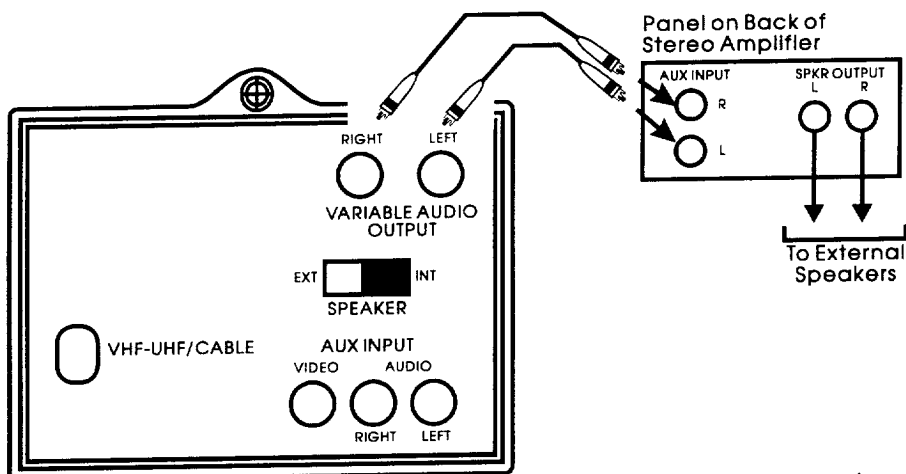
Using an External Amplifier with Speakers While the TV's Speakers are OFF.

1. Place the SPEAKER 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 SPEAKER 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.

1. Place the SPEAKER 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.

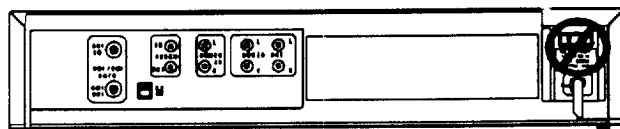
**NOTE:** If the volume of the internal TV speakers is set too low, you may hear undesirable noises through the speakers connected to your audio amplifier.



# 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.

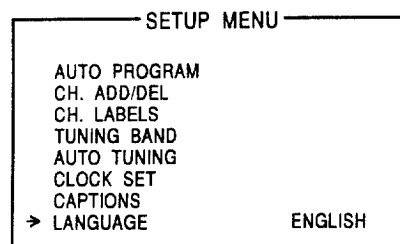


Do not plug TV into switched outlet on a VCR or cable-TV decoder

## STEP 2. SELECT YOUR LANGUAGE

Select the language for the on-screen menus. Your options are English (ENGLISH), Spanish (ESPAÑOL) or French (FRANÇAIS). The word LANGUAGE always appears in English no matter which language is chosen.

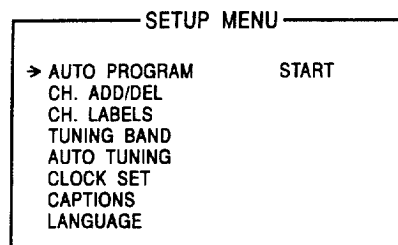
1. Press MENU repeatedly on the remote control until the SETUP MENU is shown.
2. Press SELECT (SEL) to highlight LANGUAGE then use ADJUST (ADJ) to choose the desired language.
3. Press ENTER (ENT) to return to normal viewing.



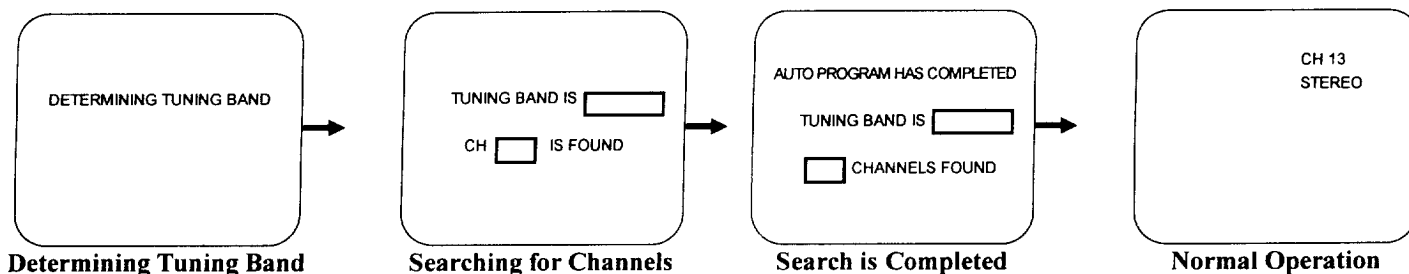
Setup Menu with Language Highlighted

## STEP 3. 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



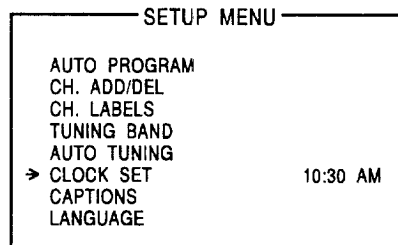


# THE FIRST TIME YOU OPERATE YOUR TV

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## STEP 4. 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 and TIMER to select AM or PM. You can also use ADJUST (ADJ) Left/Right to advance the 24 hour clock.
4. Press ENTER (ENT) to start the clock and return to normal viewing.



Setup Menu with Clock Set Highlighted

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## STEP 5. 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.
- Assign labels (such as ABC) to appear in the Channel/Time display. Refer to the CH. (Channel) LABELS option for details.

# 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 panels shown above.

### ENTER (ENT)

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

### SELECT (SEL)

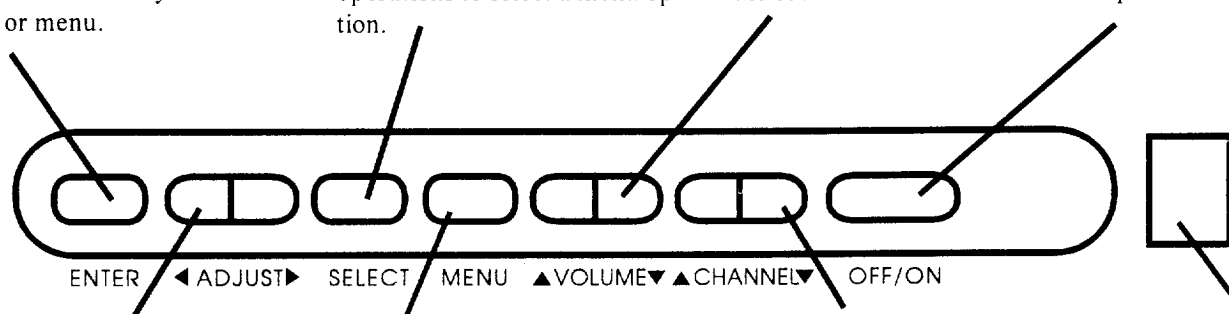
Press during on-screen menu operations to select a menu option.

### 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 shut-off time.

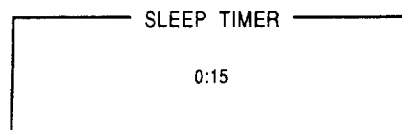
One minute before the TV shuts off, the **GOOD NIGHT** display appears on the screen. At this time you have a choice of the following three actions.

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.

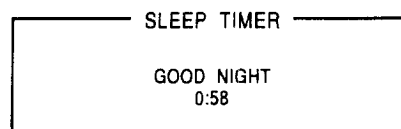
### To Cancel the SLEEP TIMER

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.



Sleep Timer Display



"Good Night" Display

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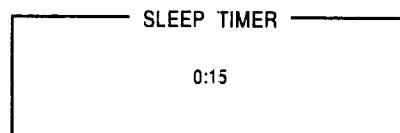
# GETTING TO KNOW YOUR TV

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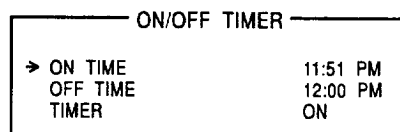
## ON/OFF TIMER

**NOTE:** ON/OFF TIMER cannot be accessed until the clock is set.

1. Press **TIMER** on remote control to see **SLEEP TIMER** display, then press **MENU** to access **ON/OFF TIMER**.
2. Press **SELECT (SEL)** to highlight **ON TIME**. Use numbered buttons on remote to enter time for TV to turn **ON** and **TIMER** to select **AM** or **PM**. You can also use **ADJUST (ADJ)** Left/Right to advance the time set for **ON TIME**.
3. Press **SELECT (SEL)**, if needed, to highlight **OFF TIME**. Use numbered buttons on remote to enter time for TV to turn **OFF** and **TIMER** to select **AM** or **PM**. You can also use **ADJUST (ADJ)** Left/Right to advance the time set for **OFF TIME**.
4. Press **SELECT (SEL)** to highlight **TIMER**. Use **ADJUST (ADJ)** on remote to turn **TIMER ON** or **OFF**.  
**NOTE:** A time must be set for either **ON TIME** or **OFF TIME** in order to turn **TIMER ON**.
5. Press **ENTER (ENT)** to start the timer and return to normal viewing.



**Sleep Timer Display**



**On/Off Timer Display**

# REMOTE CONTROL MODEL SC3820

## TV OPERATIONS

The following functions and operations apply to Zenith TV models built after 1981.

The remote control must be in the TV mode to operate your TV. Press MODE to select the TV mode. The TV indicator lights when you are in the TV mode.

### MODE

Used to select the TV mode of operation.

### TV

Lights when TV mode of operation is selected.

### CC (Closed Captions)

Used to view closed captions broadcast with some television programs.

### MENU, SELECT and ADJUST

Used with on-screen menus to see menu, select an option, and adjust that option.

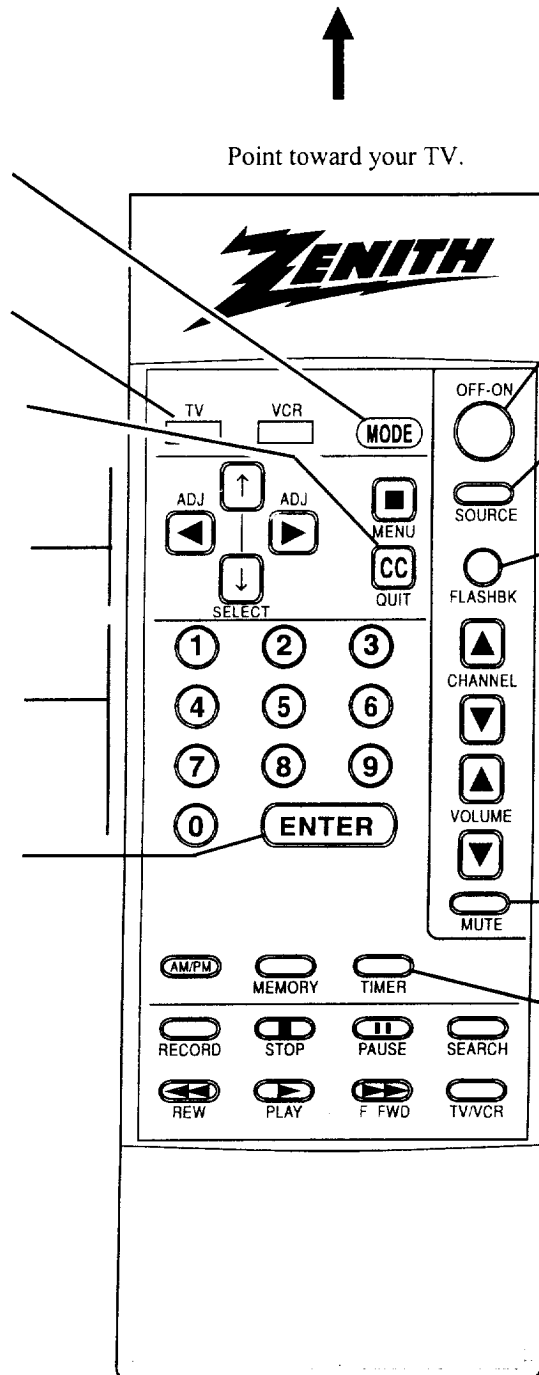
### Numbered Buttons

Used to select a TV channel.

### ENTER

Used to view the Channel/Time Display or to remove any on-screen menu or display.

Point toward your TV.



### OFF/ON

Used to turn TV ON or OFF.

### SOURCE

Used to display the menu of TV sources for some TVs. Press again to step through the source selections. On some TVs, press to select AUX (Auxiliary) channel.

### FLASHBK (Flashback)

Used to return to the last TV channel you were watching.

### CHANNEL Up/Down

Used to sequence through the TV channels.

### VOLUME Up/Down

Used to adjust the TV's volume.

### MUTE

Used to turn off sound while the picture remains. Press again to restore the sound.

### TIMER

Used to activate the SLEEP TIMER. Press repeatedly to select desired turn-off time.

# REMOTE CONTROL MODEL SC3820

## VCR OPERATIONS

The following functions and operations apply to Zenith VCR models built after 1991.

For complete details on how to operate your Zenith VCR, refer to the operating guide supplied with it.

The remote control must be in the VCR mode to operate your VCR. Press MODE to select the VCR mode. The VCR indicator lights when you are in the VCR mode.



Point toward your VCR.

### MODE

Used to select the VCR mode of operation.

### VCR

Lights when VCR mode of operation is selected.

### MENU, SELECT, ADJUST and QUIT

Used with on-screen menus and programming options of the VCR. See VCR operating guide for details.

### Numbered Buttons

Used to select a TV channel through the VCR. Also, used to set the timer in the VCR, and to enter programming information.

### ENTER

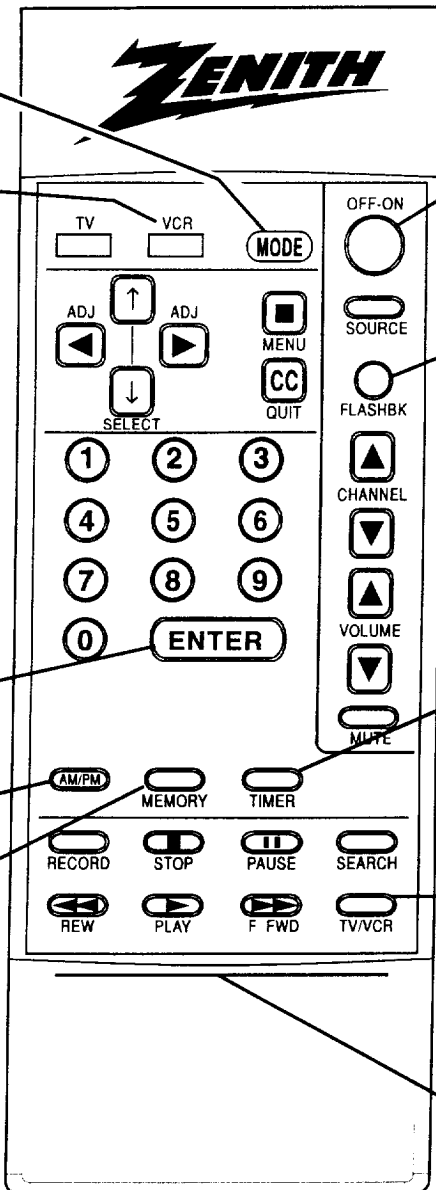
Used with the numbered buttons to select a TV channel through the VCR.

### AM/PM

Used to set timer during programming.

### MEMORY

Used to activate the COUNTER MEMORY feature.



### OFF/ON

Used to turn VCR ON or OFF.

### FLASHBK (Flashback)

Used during VCR playback to view the channel tuned by the VCR.

### CHANNEL Up/Down

Used to sequence through channels on the VCR.

### TIMER

Activates TIME RECORD on some VCRs. See the VCR operating guide for details.

### TV/VCR

Used to select the source of the programs seen on the TV. Switches the VCR between TV mode and VCR mode.

**TV Mode:** Channels are selected through the TV.

**VCR Mode:** Channels or tape operation are selected through the VCR.

### RECORD, STOP, PAUSE, SEARCH, REW, PLAY and F FWD

Used for tape recording and playback functions. See the VCR operating guide for details.

# REMOTE CONTROL MODEL SC3820

## TV AND VCR OPERATIONAL NOTES

Some controls on the remote, like PLAY and VOLUME will always operate the VCR or the TV. Whether other keys operate the TV or the VCR depends on the mode of the remote control. For example, OFF-ON will turn the VCR ON and OFF while the remote control is in the VCR mode. It will turn the TV ON or OFF while the remote control is in the TV mode.

Some of the functions provided by this remote control may not be part of your TV and/or VCR. You will not be able to activate those functions even though there is a control button on the remote. For example, pressing TIMER provides direct access to the Sleep Timer on many TVs. If your TV does not have a Sleep Timer, pressing TIMER has no effect.

## PREPARATION FOR USE

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

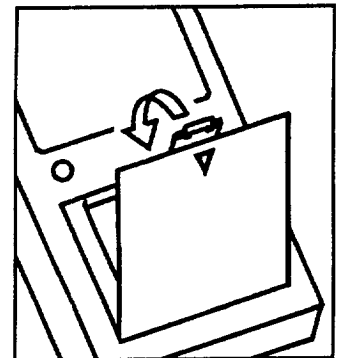
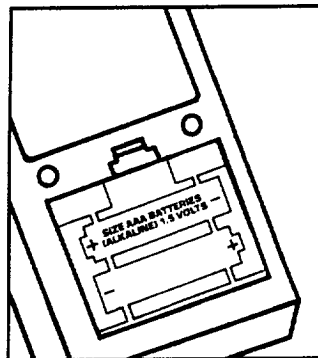
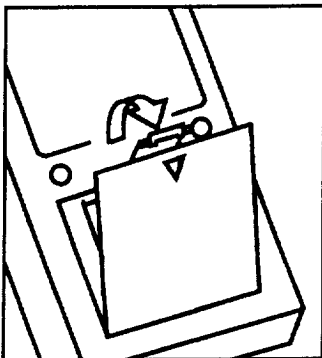
## INSTALLING BATTERIES

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

1. Remove the battery compartment cover, PUSH DOWN tab and PULL OUT from top.
2. Insert new batteries as indicated in the diagram inside the compartment.
3. Replace the cover by inserting the tab on the bottom of the cover into its housing. Snap the cover into position.

### NOTES:

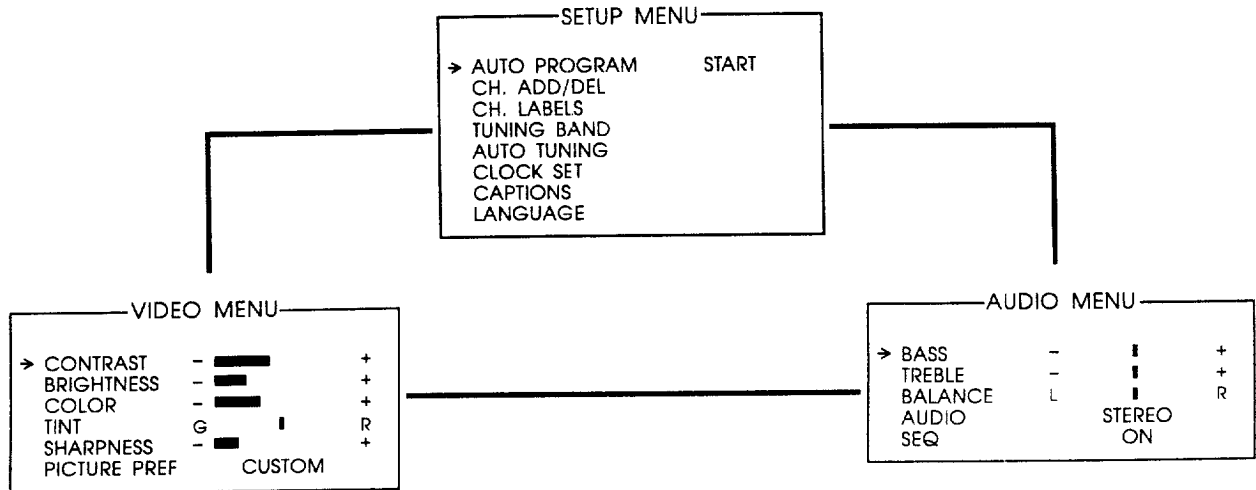
- Be careful not to place heavy objects on top of the remote control buttons. Prolonged accidental operation of the remote control will shorten battery life.
- If you do not use the remote control for a month or more, remove the batteries. Battery leakage can cause damage to the remote control.
- Zenith is not responsible for damage caused by such battery leakage.



# QUICK REFERENCE TO ON-SCREEN MENUS

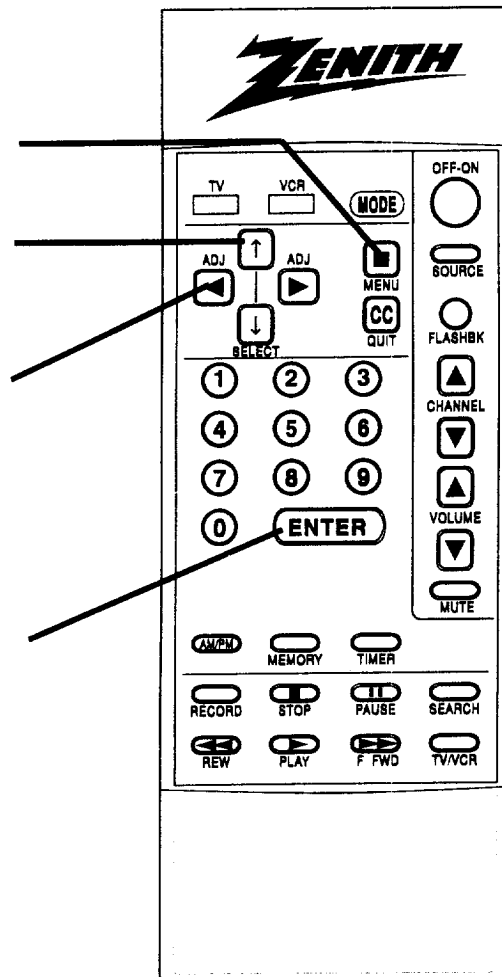
## AVAILABLE MENUS

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

1. Press MENU repeatedly to choose between available menus.
2. Press SELECT (SEL) Up/Down repeatedly until the desired option is highlighted.
3. Press ADJUST (ADJ) Left/Right to adjust an option.
4. Press ENTER (ENT) or wait a few seconds and the TV will return automatically to normal operation.



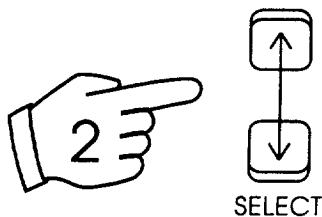
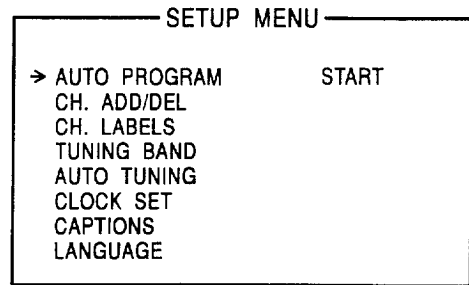
Typical Remote Control Shown

# QUICK REFERENCE TO ON-SCREEN MENUS

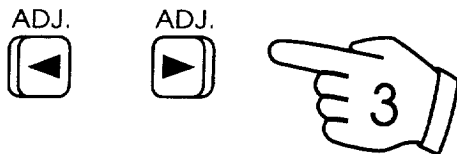
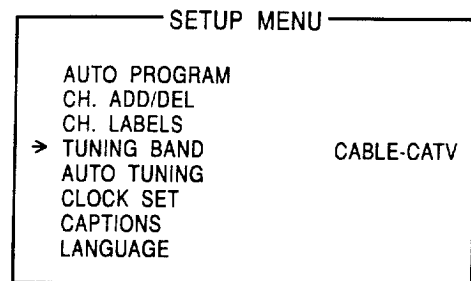
## MENU OPERATION EXAMPLE



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



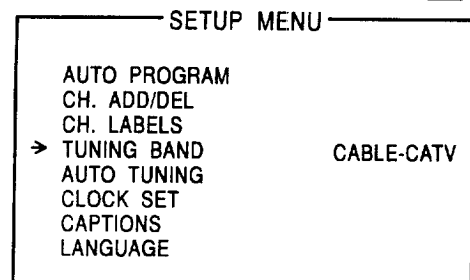
Press SELECT (SEL) Up/Down repeatedly until the desired option is highlighted. This example shows choosing TUNING BAND.



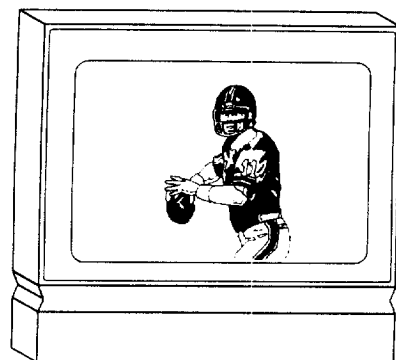
Press ADJUST (ADJ) Left/Right to adjust an option. This example shows the various choices you have for TUNING BAND.

Available options for TUNING BAND

BROADCAST  
CABLE - CATV  
CABLE - HRC  
CABLE - ICC



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





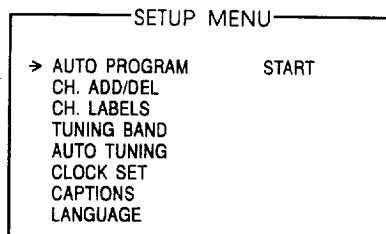
# SETUP MENU

## To Access SETUP MENU

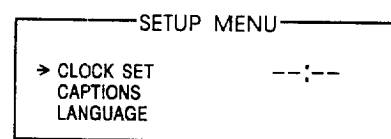
Refer to the "Quick Reference to On-Screen Menus" section for details.

## 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



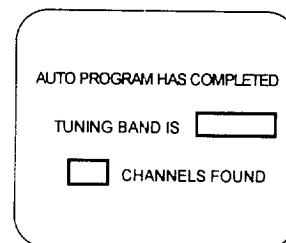
SETUP MENU While  
AUX Channel is Chosen

## AUTO PROGRAM

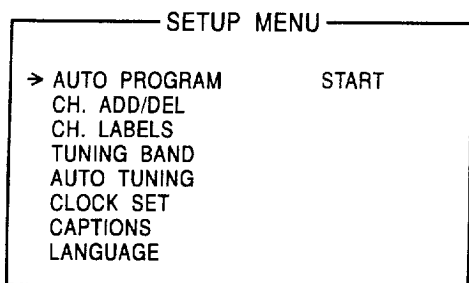
### Purpose

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.



Status When Search is Complete



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 the CH. ADD/DEL option.

## To Use AUTO PROGRAM

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

## CH. (Channel) ADD/DEL

### Purpose

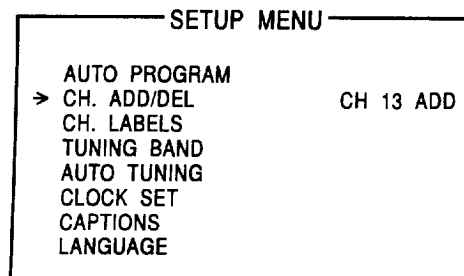
Lets you add channels to and remove channels from the active channels found when using the AUTO PROGRAM option. In this way you can customize the channels that are accessed through CHANNEL (CH) Up/Down.

### To Add a Channel to Scan Sequence

1. 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.



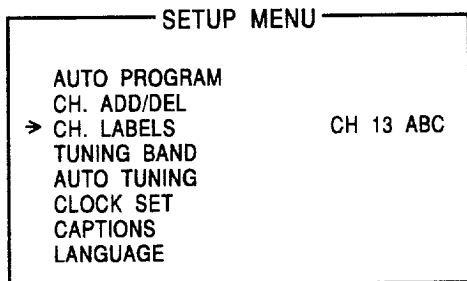
Selecting Ch. Add/Del

# SETUP MENU

## CH. (Channel) LABELS

### Purpose

Assigns a network label or name to the selected channels. If you choose the label "ABC" for channel 13, "ABC" appears in the Channel/Time display when channel 13 is selected for viewing.



Selecting Ch. Labels

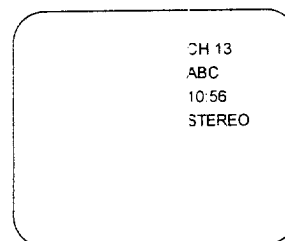
### To Use CH. LABELS

1. Select a channel by using the number buttons or CHANNEL Up/Down.
2. Press ADJUST (ADJ) Left/Right to sequence through the available choices until the desired label appears.

**NOTE:** To remove an assigned channel label, select the four dashes.

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	VH1	VISN	VJN	WGN	WTBS
WWOR	YTV	----			

Available Channel Labels



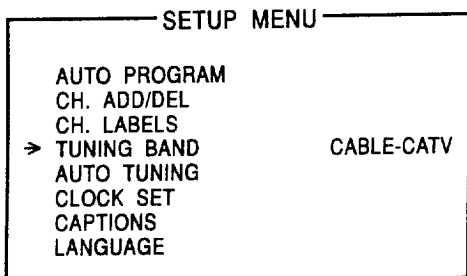
Channel/Time Display with Label

## 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

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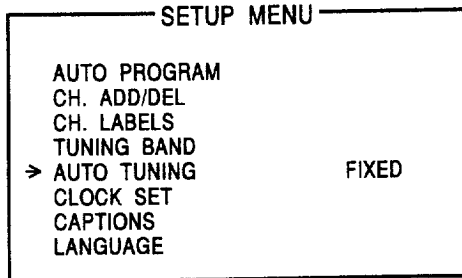
# SETUP MENU

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## 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 TUNING 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:

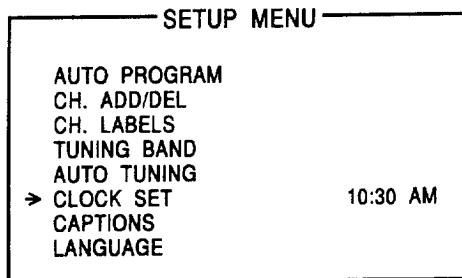
- FIXED is used to receive "over-the-air" TV stations, and with many cable-TV systems.
- SEARCH is used only when the TV must search to find the frequency being received, such as when used with certain cable-TV systems, VCRs and video game controllers.

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## CLOCK SET

### Purpose

Sets the clock in the TV to the correct time.



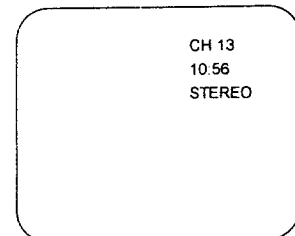
Selecting Clock Set

### To Use CLOCK SET from Remote Control

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

### To Use CLOCK SET from Control Panel

Use ADJUST (ADJ) Left/Right to advance the 24 hour clock. Press ENTER (ENT) to start the clock.



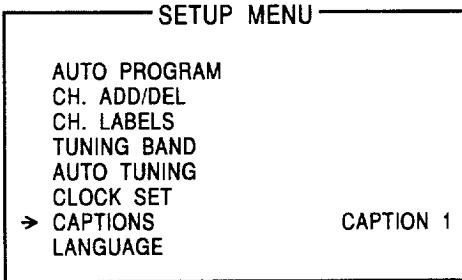
Channel/Time Display

# SETUP MENU

## CAPTIONS

### Purpose

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

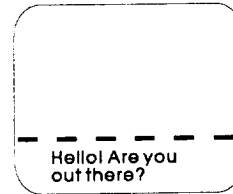


Selecting Captions

### To Use CAPTIONS

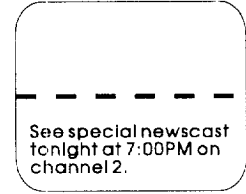
Press ADJUST (ADJ) Left/Right to select desired mode of operation. Five different selections can be made: OFF, CAPTION 1, CAPTION 2, TEXT 1 or TEXT 2.

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.

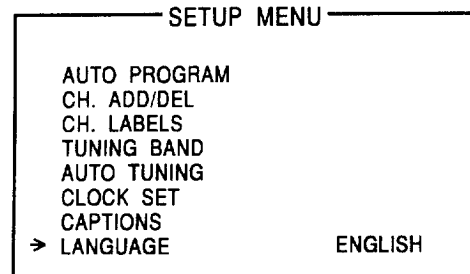
## LANGUAGE

### Purpose

Determines whether the on-screen menus are displayed in English (ENGLISH), Spanish (ESPAÑOL) or French (FRANÇAIS). **NOTE:** The word LANGUAGE always appears in English no matter which language is chosen.

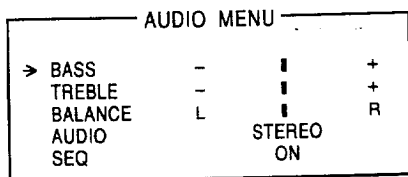
### To Use LANGUAGE

Press ADJUST (ADJ) Left/Right to select desired language.

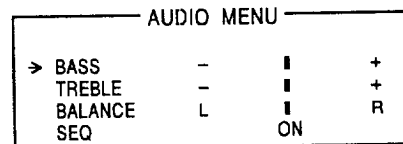


Selecting Language

# AUDIO MENU



AUDIO MENU



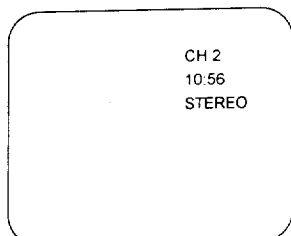
AUDIO MENU While  
AUX Channel is Chosen

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.
AUDIO (AUDIO mode options are not available while AUX channel is chosen. The signal being received from the auxiliary source is assumed to be stereo audio. SEQ may be switched ON or OFF as desired.)	<p>Allows you to select STEREO, MONO or 2ND AUDIO/SAP speaker operation.</p> <p><b>STEREO:</b> Directs the sound to the left and right speakers as supplied by the program source (broadcast TV, VCR, etc.)</p> <p><b>MONO:</b> Directs the same sound to both left and right speakers even if the source being received is in stereo.</p> <p><b>2ND AUDIO/SAP:</b> Directs the sound for the second audio program (second language) to both the left and right speakers. SAP sound is always monaural.</p>
SEQ (Spatial Equalization)	Improves tonal balance and increases apparent stereo separation to produce a spacious and more tonal sound. SEQ is only available if a stereo signal is being received and you have previously selected STEREO using the AUDIO option.

## 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.



Audio Mode Shown in  
Channel/Time Display

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

## To Adjust BASS, TREBLE and BALANCE

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

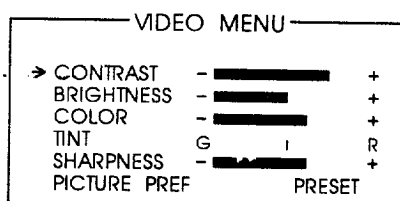
## To Use AUDIO Mode Options

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.

# 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 set 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.

# MAINTENANCE AND TROUBLESHOOTING

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## 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 luke-warm 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.

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## EXTENDED ABSENCE

Before an extended absence (such as a vacation) you may want to unplug the TV from the 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.

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## TV PICTURE INTERFERENCE

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

**Nearby Automobile Ignition, Electrical Appliances:** Produces a speckled, streaked picture, most noticeable in weak signal areas.

**Snow in Picture:** Caused by weak signal being received. 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:** Rolling picture, herringbone pattern or torn picture caused by police, amateur or CB radio transmitters. These interference problems can often be corrected through the use of a better antenna, signal amplifier, or various filter devices. See your TV dealer for additional information, and for 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 on SETUP MENU.
Sound OK. Poor picture.	Re-orient antenna. Try another channel — possible station trouble. Adjust VIDEO MENU options with PICTURE PREF. in CUSTOM mode. Trouble with cable-TV system?
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? Trouble with cable-TV system? Check auxiliary audio/video equipment. Check channel selection. Check TUNING BAND and AUTO TUNING options on SETUP MENU.
Picture blurred or distorted. Ghost in picture.	Check antenna or cable hook up for broken wires. Try 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.
Cannot select certain channels.	Channels may be skipped in CH. ADD/DEL option on SETUP MENU. Check TUNING BAND and AUTO TUNING options on SETUP MENU.
No closed captions	Are captions available? Is CAPTION 1 or CAPTION 2 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?
No picture or sound when AUX channel is selected.	Is audio/video source hooked up properly? Are all wires connected to AUX INPUT jacks on connection center?
No stereo sound or weak stereo sound when using a stereo VCR.	Check AUDIO mode. Was stereo sound present before selecting AUX channel?
Remote control does not work.	Are batteries okay? Is TV turned ON? Is TV plugged in?

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 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.







# YOUR ZENITH WARRANTY

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## 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 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 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.

ZENITH ELECTRONICS CORPORATION  
1000 MILWAUKEE AVENUE  
GLENVIEW, ILLINOIS 60025

Part No. 206-2833  
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