Direct View
Color TV
MTS Stereo
Picture-In-Picture

Operating Guide & Warranty

for Model SY2572, SY2772, SY3238, SY3272, SY3572, SY7772 ZENITH

THE QUALITY GOES IN BEFORE THE NAME GOES ON

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



Aviso para nuestros plentes de habla hispana:

Orisulte la información que la final de este manual!

# SAFETY WARNINGS



#### 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" section of this operating guide 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.

## SAFETY TIPS

#### Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this section of the operating guide can help you get many years of enjoyment and safe operation that are built into your new product.

#### 1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

#### 2. Follow Instructions

All operating and use instructions should be followed.

#### 3. Retain Instructions

The safety and operating instructions should be retained for future reference.

#### 4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

#### 5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

#### 6. Water and Moisture

Do not use this product near water — for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

#### 7. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

#### 8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



PORTABLE CART WARNING

#### 9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

#### 10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

#### 11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

#### 12. Line-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.

#### 13. Power-Cord Protection

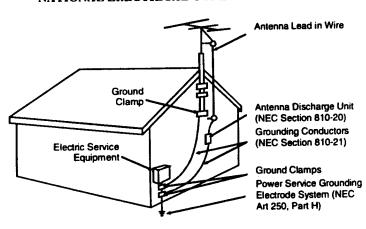
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

# SAFETY TIPS

#### 14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

# EXAMPLE OF GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS



NEC - NATIONAL ELECTRICAL CODE

#### 15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

#### 16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

#### 17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

#### 18. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

#### 19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

#### 20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. If the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or the cabinet has been damaged.
- f. If the product exhibits a distinct change in performance.

#### 21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

#### 22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

#### 23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

#### 24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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REPLACEMENT PRODUCT REGISTRATION CARD
AVISO PARA NUESTROS CLIENTES DE HABLA HISPANA
ACCESSORIES FOR YOUR TV
YOUR ZENITH WARRANTY

#### FEATURES PROVIDED WITH YOUR TV

This operating guide describes a family of TV models. Not all models have all of the features described in this guide. Different control panels may be used from model to model. Most models include the following features:

On-Screen Menus Accessed By Remote or TV Controls	Sleep Timer and On/Off Timer
Picture-In-Picture	Automatic Channel Programming
Multi-Brand Programmable Remote	English/ Spanish/ French On-Screen Menus
Parental Control	Audio/Video Input Jacks for Stereo VCR
MTS Stereo	181 Channel Tuning, STD/ HRC/ ICC Bands
Front Channel Surround Sound	Antenna/Cable Input Jack
Closed Caption and Text Modes	Variable Audio Output Jacks
Channel Labels for Easy Channel Identification	

(Design and specifications are subject to change without prior notification.)

# INTRODUCTION

#### WELCOME

Welcome into the family of Zenith Color Television owners. This guide provides instructions on how to operate your new TV. In addition, we strongly advise you to read and observe the precautions listed in the Safety Tips section of this operating guide. Read this publication 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 authorized service centers throughout the U.S., Canada and Mexico who can attend promptly and effectively to ordinary service needs.

If you should have an unusual performance or service problem that cannot be satisfactorily resolved by your Zenith authorized service center, call or write:

#### **Zenith Electronics Corporation**

Customer Service Department 1000 Milwaukee Avenue Glenview, IL 60025-2493 Telephone: (847) 391-8752

Telephone: (847) 391-8752

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" section when installing and using your TV.

#### VIDEO GAMES AND OTHER FIXED

PATTERN DISPLAY CAUTION — If you use your TV for video games or other fixed displays, avoid setting the BRIGHTNESS control for an excessively bright picture. A fixed display is any image which does not change frequently, such as a channel/network identification or other symbol that remains in the same location for long periods of time. A bright, fixed pattern, if left on for long periods of time, can result in a permanent imprint on the TV picture tube. You can reduce this possibility by alternating the use of the fixed pattern display with normal TV picture viewing, by turning down the CONTRAST control for sustained fixed pattern use, and by turning off the fixed pattern display when not in use.

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

# STANDARD CONNECTIONS FOR YOUR TV

#### **CONNECTION CENTER**

#### VARIABLE AUDIO OUTPUT

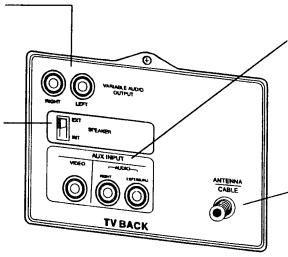
Connect these jacks to the auxiliary input jacks of a stereo amplifier to listen to your TV through your stereo system.

#### SPEAKER EXT/INT

Select EXT (external) to remove sound from the TV's speakers. (You must now listen to TV sound using your stereo system, via the Variable Audio Output jacks.)

Select INT (internal) to listen to your TV using the TV's (internal) speakers.

(If a stereo amplifier is connected to the Variable Audio Output jacks, you hear the audio from the TV's speakers and your stereo system at the same time.)



#### **AUX INPUT**

Jacks for external audio and video input from a stereo VCR or other A/V appliance. (You must connect to these jacks in order to hear stereo sound when using the A/V appliance.)

If you connect a single audio plug (from a monaural A/V appliance) to the MONO jack, monaural sound is directed to both of the TV's speakers.

#### ANTENNA/CABLE

75-ohm antenna or cable-TV connection to your TV. Attach your antenna, cable-TV line or VCR to this jack.

#### **CONNECTION OPTIONS**

Your TV may be connected in many different ways. The following illustrations show the most common, and recommended connections for your new TV.

#### SETUP 1: TV ONLY

If you receive your television signal by antenna or basic cable-TV (no cable box), connect your television as follows:

Cable	Leading from	Connects to	
Α	75-ohm (round) cable from Antenna or cable-TV wall jack.	ANTENNA/CABLE connector on TV.	
B & C	Not required.		
11000			

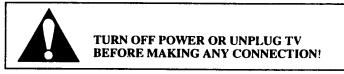
#### NOTE:

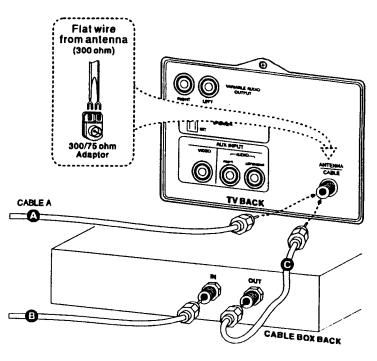
If your antenna has a flat (300-ohm) wire leading from it, you will have to attach this wire to a 300-75 ohm adapter before the antenna can be connected to the TV.

#### SETUP 2: TV AND CABLE BOX

If you receive your television signal from a cable box, connect your television as follows:

Cable	Leading from	Connects to
Α	Not required.	
В	75-ohm cable from Cable-TV wall jack.	Input connector of cable box.
С	75-ohm cable from output connector of cable box.	ANTENNA/CABLE connector on TV.





# STANDARD CONNECTIONS FOR YOUR TV

#### SETUP 3: TV AND VCR

If you receive your television signal through your VCR, connect your television as follows:

Cable	Leading from	Connects to
Α	75-ohm cable from Antenna or cable-TV wall jack.	"VHF In" (From Antenna) jack of VCR.
B & C	Not required.	
D	75-ohm cable from VCR's "VHF Out" (To TV) jack.	ANTENNA/CABLE connector on TV.
E	Audio/Video (A/V) cables from "Video Out," "Audio R Out" and "Audio L Out" jacks on the back of VCR.	Corresponding "Video," "Audio R" and "Audio L" input jacks on the back of the TV.

#### NOTE:

If your antenna has a flat (300-ohm) wire leading from it, you will have to attach this wire to a 300-75 ohm adapter before the antenna can be connected to the VCR.

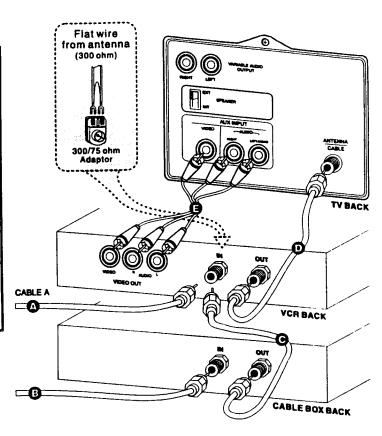
Setup 3 describes the basic connection of your TV if you wish to properly use the PIP feature. With your equipment setup in this manner, your television has the following PIP capabilities:

- ☐ Watch a video tape (playing in the VCR) in the TV's main picture area and simultaneously watch a TV channel in the PIP window.
- ☐ Watch one channel (selected by the TV's tuner) in the TV's main picture area and simultaneously watch another channel (selected by the VCR's tuner) in the PIP window. For further details on PIP, refer to the "PIP Operation" section of this operating guide.

#### SETUP 4: TV WITH VCR AND CABLE BOX

If you receive your television signal through your VCR and cable box, connect your television as follows:

Cable	Leading from	Connects to
Α	Not required.	
В	75-ohm cable from cable- TV wall jack.	Input connector of cable box.
С	75-ohm cable from output connector of cable box.	"VHF In" (From Antenna) jack of VCR.
D	75-ohm cable from VCR's "VHF Out" (To TV) jack.	ANTENNA/CABLE connector on TV.
E	Audio/Video (A/V) cables from "Video Out," "Audio R Out" and "Audio L Out" jacks on the back of VCR.	Corresponding "Video," "Audio R" and "Audio L" input jacks on the back of the TV.



**SETUP 3 and SETUP 4** 

3050-В 1 — 2

# STANDARD CONNECTIONS FOR YOUR TV

#### **SETUP 5: ALTERNATE PIP CONNECTION**

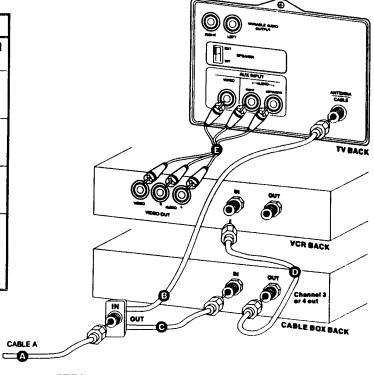
Cable	Leading from	Connects to
A	75-ohm cable from cable- TV wall jack.	RF signal splitter. (Purchased seperately.)
В	75-ohm cable from output connector of RF signal splitter.	ANTENNA/CABLE connector on TV.
С	75-ohm cable from output connector of RF signal splitter.	Input connector of cable box.
D	75-ohm cable from output connector of cable box.	"VHF In" (From Antenna) jack of VCR.
E	Audio/Video (A/V) cables from "Video Out," "Audio R Out" and "Audio L Out" jacks on the back of VCR.	Corresponding "Video," "Audio R" and "Audio L" input jacks on the back of the TV.

Setup 5 describes an alternate connection for using the PIP feature. With your equipment setup in this manner, your television has the following PIP capabilities:

- ☐ Watch a cable channel in the TV's main picture area and simultaneously watch a video tape (playing in the VCR) in the PIP window.
- ☐ Watch a basic cable channel (selected by the TV's tuner) in the TV's main picture area and simultaneously watch a premium cable channel (selected by the cable box) in the PIP window.

For further details on PIP, refer to the "PIP Operation" section of this operating guide.

AFTER YOU HAVE CONNECTED YOUR TV, PLUG THE POWER CORD INTO AN OUTLET THAT IS NOT CONTROLLED BY A SWITCH.

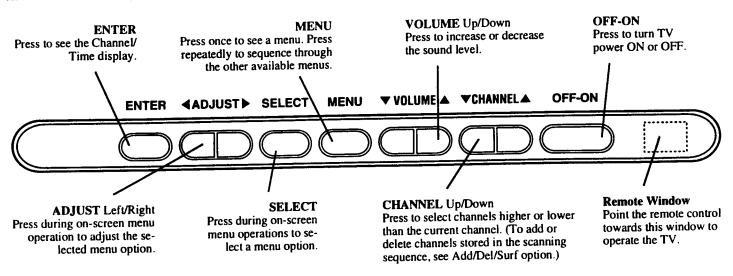


**SETUP 5: ALTERNATE PIP CONNECTION** 

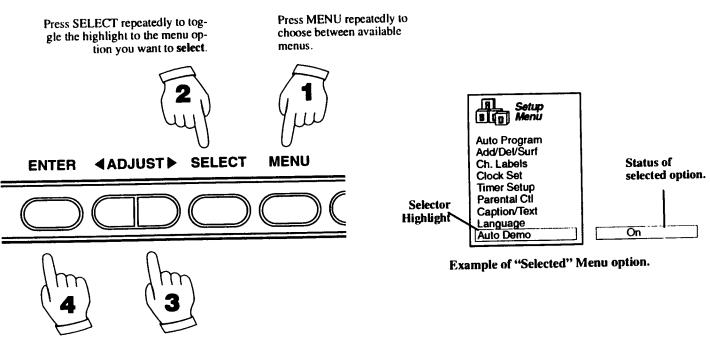
# GET TO KNOW THE TV'S CONTROL PANEL

## CONTROL PANEL FUNCTIONS

The control panel shown here may be slightly different from the one on your TV, but the operation of the controls are the same. The majority of the TV's features may be operated using the control panel on the TV. However, to fully appreciate all of the features built in to the TV, such as last channel FLASHBACK and volume MUTE, use the supplied remote control.



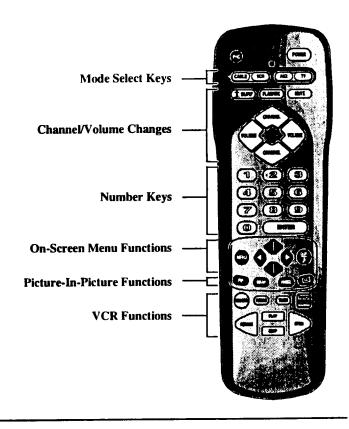
# BASIC MENU OPERATION USING THE CONTROL PANEL



Press ENTER to remove menus from view or wait a few seconds and the menu will disappear by itself. Press the Left or Right ADJUST key to adjust the selected menu option.

#### INTRODUCTION

The remote control provided with your new TV is a "multi-brand" remote control. It will operate the common features of most, but not all, models and brands of IR (infrared) controlled TVs, VCRs, cable converters, video disc players, and audio equipment. The remote may provide functions that are not available on your equipment, e.g., menu operations. Some functions of your particular equipment may not be controlled by this remote. In such cases, use the original remote control for your equipment.



#### **BATTERY INSTALLATION**

Batteries are provided, but they must be installed before using the remote control. When it no longer functions normally, or when it loses memory, replace the batteries with two high-quality, alkaline, size AAA batteries.

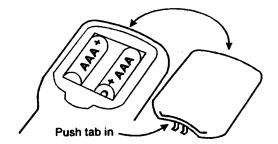
Unless your equipment responds to the factory preset codes commonly used for Zenith products, i.e., 101 for TV, 201 for VCR, 353 for CABLE, and 401 for AUX., you will need to program the remote control with the codes for your particular equipment.

#### To install the batteries:

- Open the battery compartment by pressing in on the tab and lifting the cover off.
- Place the batteries into the compartment matching plus with plus (+ with +), minus with minus (- with -) with the markings shown in the battery compartment.
- 3. Replace the compartment cover.

#### NOTES:

- Do not to place heavy objects on top of the remote control keys. Prolonged unintentional operation of the remote shortens battery life.
- Remove the batteries if the remote control will not be used for a month or more. Battery leakage can permanently damage the remote, for which Zenith is not responsible.



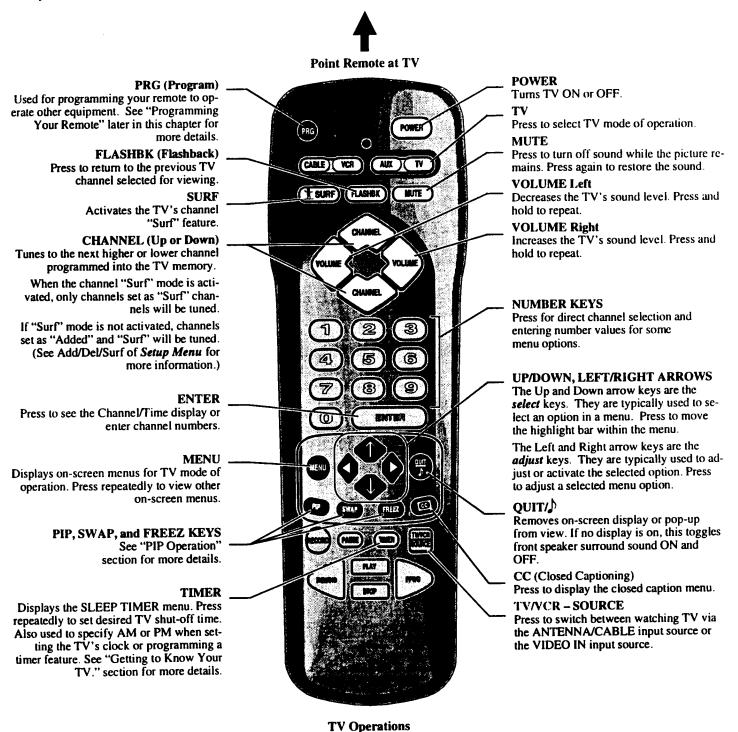
#### CHOOSING OPERATING MODE

To control your TV, VCR, cable box, or auxiliary equipment with this remote, you must first choose the mode of operation. Press the desired mode key for TV, VCR, CABLE or AUX. Note that some keys on the remote will always operate a particular product function regardless of which mode the remote is set to.



#### TV OPERATIONS

First, press the TV button on the remote control to select the TV mode of operation.



#### NOTE:

- ☐ Keys dedicated to VCR functions may be used to operate your VCR while the remote is in TV mode.
- All features listed may not be available on your TV. See Contents page for a listing of features available for your TV.
- ☐ All features and specifications are subject to change without prior notice.

3050-0

# OPERATIONAL MODES FOR ZENITH PRODUCTS USING FACTORY PRESET CODES

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

erence: 124-212-36 and μP 221-952-02A

#### **NOTES:**

1. Can be overwritten with Cable Vol/Mute when 399 is entered.

## PROGRAMMING YOUR REMOTE

If you are using Zenith products, the remote is programmed for the most commonly used codes. For other audio/video brands you will have to program the remote.

Follow these steps for each product you are using:

#### To program the remote:

- Locate the three-digit code for your brand (such as Zenith) and equipment (such as VCR) in the code table.
- Press and hold PRG with a small blunt object until the indicator lights (about three seconds).
- 3. Press TV, VCR, CABLE or AUX to select the product you want your remote to control. (Use CABLE or AUX to program your remote for a second TV or VCR or to program your remote for a video disc player or audio equipment.)
- 4. Enter the three-digit code then press ENTER. The indicator light should flash then turn off to indicate that the code was accepted. If the light stays on, repeat steps 3 and 4 or try using a different code.
- 5. Write the codes that operate your equipment on the label inside the battery compartment for future reference.

#### NOTES:

- ☐ To erase all code programming and return to the factory preset codes, enter code 9–1–1 when programming the remote.
- ☐ If no key on your remote is pressed within 60 seconds, the programming process will stop, and you will have to start again.
- You may cancel programming at any time by pressing PRG.

#### SPECIAL FEATURES

## AUX+1, AUX+2, AUX+3 CAPABILITY

Your remote can control up to seven electronic components. If you have programmed the remote for four components using the TV, VCR, CABLE and AUX keys, you may also program it for up to three additional components.

#### To program AUX+1, AUX+2, & AUX+3:

- 1. Locate the three-digit code for your equipment in the code table.
- 2. Press and hold PRG until the indicator lights.
- 3. Press AUX and "I" simultaneously to select AUX+1.
- 4. Enter the three-digit code then press ENTER. The indicator light should flash then turn off to indicate that the code was accepted. If the light stays on, repeat steps 3 and 4 or try using a different code.
- 5. Repeat steps 2 4 for AUX+2 and AUX+3 programming.
- 6. Write the codes that operate your equipment on the label inside the battery compartment for future reference.

Once programmed, hold down the AUX key and press 1, 2 or 3, to access the additional AUX +1, 2 or 3 mode.

#### **CABLE BOX VOLUME**

You may use your remote to control cable box volume and muting if available on your equipment.

#### To program the cable box volume:

- 1. Program your cable box code into the CABLE or the AUX mode.
- Repeat the programming steps, again using the CABLE or AUX key, but enter code 3-9-9 instead of a brand code and press ENTER.

#### NOTE:

To restore TV volume/mute control to the CABLE or AUX mode, reprogram your cable code into that mode.

#### AMPLIFIER VOLUME OVERRIDE

You may use your remote to override your TV, VCR or video disk player's volume functions with your amplifier's volume and muting.

## To program the amplifier volume override:

- Program your amplifier code into the CABLE or one of the AUX modes.
- Select the mode on your remote (TV, VCR, etc.) where you
  want the amplifier volume control function to appear. In other
  words, if you want to operate the volume and mute of your
  amplifier while the remote is in TV mode, press TV for this step.
- 3. Enter code 4-9-9, followed by ENTER.

The amplifier volume and mute features are now available in the TV mode.

#### **NOTES:**

- To restore normal volume and muting control to your TV cable box, reprogram the remote for these units into each mode (TV, VCR, etc.) to be restored.
- CD and tape devices will automatically select amplifier volume and mute.

#### **AUTO FIND OPTION**

If you have tried all the codes listed in the code table for your brand and type of product, and none of those codes operate your equipment, you can use Auto Find to search for the code you need.

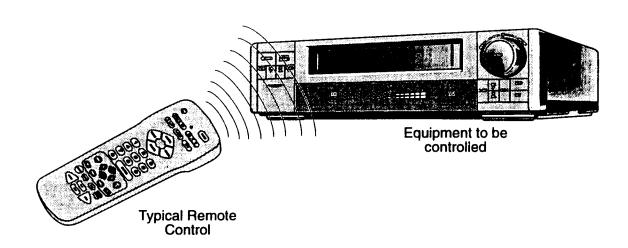
Follow these steps for each product you are using:

#### To auto find a code:

- 1. Turn the product ON.
- 2. Press and hold PRG until the indicator lights.
- 3. Press the mode key on the remote for the product you want to control: TV, VCR, CABLE, or AUX.
- 4. Enter code 0-0-0, then press ENTER. When the indicator light flashes three times and remains lit, Auto Find is active.
- Aim the remote toward the product and press and release POWER, repeating this action until the product turns OFF.
- 6. Press ENTER immediately to save the code. If your remote fails to operate the functions you use most often, you can re-enter Auto Find and search for a better code.

#### NOTES:

- The indicator light should flash OFF when you press POWER and back ON when you release it. If the indicator light stays on when you press POWER, Auto Find has tried all available codes. If you finish Auto Find and the product you want to control has not turned off, your remote cannot control that product.
- Pressing PRG at any time during the use of Auto Find will cancel Auto Find, and you will have to start again.



# **OPERATING CODES BY BRAND NAME**

TVS	
Admiral	116, 121, 130, 133
Adventura TV/VCR	154
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Amark	103, 146
AOC	104
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Centurion	
Citizen	121, 139
Contec	141
Coronado	103
Crown	103
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Daewoo	149, 159
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Daytron	119
Elektra	121
Emerson	103,104,123,124.
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Fisher	109, 118
Funai TV/VCR	154
General	106, 107, 114,
Electric	116, 117, 161
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AUDIO AND AN Denon Fisher Goldstar Harman/ Kardon JVC Kenwood Marantz Onkyo Philips Pioneer Radio Shack Realistic Sanyo Scott Sharp Sherwood Sony Soundesign	TUNERS MPLIFIERS 462, 463 464 464 465 466 468, 469 472, 503 473 475, 476 477, 478, 479 487, 488 480 481 482 483 487, 488 489, 490, 491, 492 461, 498, 501, 502
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Ref: 124-212-34/35 and μP 221-952-02A

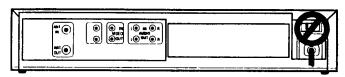
Zenith

460, 461, 498, 501,

# WHAT YOU SHOULD DO FIRST

# (1) CONNECT THE POWER

AFTER you have connected the necessary cable(s) to the jacks on the back of the TV, plug your TV's power cord into an AC outlet. Make sure you **do not** plug the TV into a "switched" outlet (an outlet that is controlled by a switch).



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

# 2 INSTALL THE BATTERIES INTO THE REMOTE CONTROL

If you have not already installed the batteries in the remote control, now is a good time to do so. Batteries are provided, but they must be installed before it can be used.

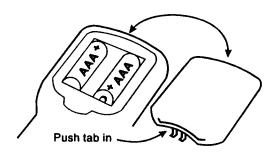
Unless your equipment responds to the factory preset codes, you will need to reprogram the remote control with the codes of your particular equipment each time you replace batteries. Refer to "Get To Know Your Remote Control" for programming details.

#### To install the batteries:

- Open the battery compartment by pressing in on the tab and lifting the cover off.
- Place the batteries into the compartment matching plus with plus (+ with +), minus with minus (- with -) with the markings shown in the battery compartment.
- 3. Replace the compartment cover.

#### **NOTES:**

- Do not place heavy objects on top of the remote control keys. Prolonged unintentional operation of the remote shortens battery life.
- ☐ Remove the batteries if the remote control will not be used for a month or more. THE REMOTE CONTROL MANUFACTURER IS NOT RESPONSIBLE FOR DAMAGE CAUSED BY BATTERY LEAKAGE.



Multi-Brand Remote Control (Uses 2 size AAA batteries)

# **3** GET TO KNOW THE ON-SCREEN MENUS

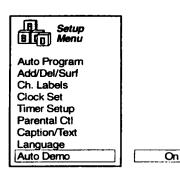
Your new TV is a sophisticated entertainment appliance. For this reason, it is equipped with an automatic demonstration of the on-screen menus that control the setup and operational features of the TV. By turning on Auto Demo, the on-screen menus will appear on the TV one-by-one.

#### To start the Auto Demo:

- 1. Press MENU repeatedly to view the Setup Menu.
- 2. Select Auto Demo.
- 3. Use the Left/Right arrows to turn Auto Demo ON.
- Press QUIT to remove the menu from view.

#### NOTE:

☐ The Auto Demo will continue to operate until it has been turned OFF in the Setup Menu.



Setup Menu with Auto Demo Highlighted

# WHAT YOU SHOULD DO FIRST

# **4** SELECT YOUR LANGUAGE

The on-screen menus can appear in one of three languages; English, Spanish or French. Select the language that you would be most comfortable with. Note that the word LAN-GUAGE always appears in English regardless of which language is chosen.

#### To select a LANGUAGE:

- 1. Press MENU repeatedly to view the Setup Menu.
- 2. Select Language.
- 3. Use the Left/Right arrows choose a language.
- 4. Press QUIT to remove the menu from view.



Add/Del/Surf Ch. Labels Clock Set Timer Setup Parental Ctl Caption/Text

Language

Auto Demo

English

Setup Menu with Language Highlighted

# 5 USE AUTO PROGRAM

The first time your TV is turned on, Auto Program will be selected in the Setup Menu. Auto Program finds all available channels and stores them in the memory of the TV.

## To start AUTO PROGRAM:

- 1. Press MENU repeatedly to view the Setup Menu.
- 2. Select Auto Program.
- 3. Use the Left/Right arrows to advance to the next menu.
- 4. Select either OFF AIR ANTENNA or CABLE TV.
- 5. Use the Left/Right arrows to begin the channel search.



Auto Program Add/Del/Surf Ch. Labels

Clock Set Timer Setup Parental Ctl

Caption/Text Language Auto Demo To Program

10:30 AM-(TIMER)

Setup Menu with Auto Program Highlighted

# $\widehat{6}$ SET THE CLOCK

#### To set the clock:

- 1. Press MENU repeatedly to view the Setup Menu.
- 2. Select Clock Set
- Use the numbered buttons on your remote control to enter the correct time and press the TIMER button to select AM or PM. (You can also use the Left/Right arrows to advance the 24 hour clock to the correct time.)
- 4. Press OUIT to remove the menu from view.



Auto Program Add/Det/Surf

Ch. Labels Clock Set

Timer Setup Parental Ctl

Caption/Text Language Auto Demo

Setup Menu with Clock Set Highlighted

# 7 USE OTHER MENU OPTIONS

You may want to use the following options:

- Create your own personal list of favorite channels for use with the channel Up/Down buttons. Refer to the Add/Del/Surf option for details.
- ☐ Label channels with network or station names: Refer to the Ch. Labels option for details.
- Use the Parental Control feature to block the viewing of undesirable channels: Refer to the Parental Ctl option for details
- Adjust options in the Audio and Video Menus for your personal preferences.

# QUICK REFERENCE TO ON-SCREEN MENUS

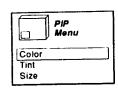
#### **AVAILABLE MENUS**

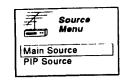
Your TV is menu operated. In other words, adjustments to the TV are made via a list of choices which appear on your TV screen. To view these menus, press the MENU key on the remote control. Press MENU repeatedly to toggle through the available menus.

















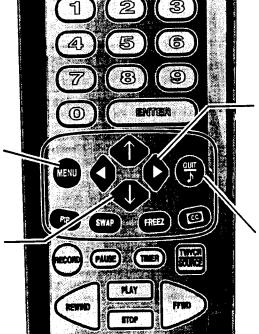


#### BASIC MENU OPERATION

The remote control buttons which are most frequently used for menu operations are shown here. In addition to these buttons, the number buttons may also be used where a number value is necessary, such as setting the time in the TV.



Press MENU repeatedly to choose between available menus.



**Typical Remote Control Shown** 

Press OUIT to remove



Press an Up or Down arrow key repeatedly until the desired option is highlighted.

menus from view or wait a few seconds and the menu will disappear by itself.

Press a Left or Right arrow

key to adjust the selected

menu option.



# **SETUP MENU**



Auto Program
Add/Del/Surf
Ch. Labels
Clock Set
Timer Setup
Parental Ctl
Caption/Text
Language
Auto Demo

◆► To Program



Clock Set Timer Setup Parental Ctl Caption/Text Language Auto Demo 10:30 AM+(TIMER)

While the VIDEO Input Source is Chosen

#### **MENU OPERATION**

Press MENU repeatedly until the **Setup Menu** is shown.







Press the Left or Right arrows to adjust the selected option.

Press the Up or Down arrows until the desired option is selected.





Press QUIT or wait a few seconds for the TV to return to normal operation.

Menu Option	Function Of Menu Option			
Auto Program	Finds all active channels and stores them in the TV's memory for use by the CHANNEL up/down keys.			
Add/Del/Surf	Edits the channel numbers found by the Auto Program feature to create your own list of favorite channels when using the CHANNEL up/down keys. See the information following this chart for details.			
Channel Labels	Assigns a network/station label, name or call letters to specified channels. For example, if you choose the label ABC for channel 13, then ABC will appear in the Channel/Time display whenever channel 13 is selected. See the information following this chart for details.			
Clock Set	Used for setting the TV's internal clock to the correct time. See "What You Should Do First" section of the operating guide.			
Timer Setup	Sets the TV's Sleep Timer and On/Off Timer features. See the information following this chart for details.			
Parental Ctl	Use this feature to block viewing of any undesirable channels, including the VIDEO input source. See the information following this chart for details.			
Caption/Text	Displays closed captioning or informational text when available on the selected channel. Options are: Off, Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, and Text 4. (At present, few TV programs or video tapes offer text captioning for any option other than CAPTION 1. Therefore, CAPTION 1 is the only recommended choice, unless you know that a specific program is providing captioning using one of the other selections.)			
Language	Selects the language used for on-screen menus. Languages available include: English, Spanish or French.			
Auto Demo	Activates automatic demonstration of on-screen menus. See "What You Should Do First" section of the operating guide.			

continued on next page

# **SETUP MENU**

## USING ADD/DEL/SURF

To Add Channels:	To Delete Channels:	To Setup Surf Channels:
Added Channels: Channels set to "Added" are tuned when using the CHANNEL Up and Down arrow keys. All channels which were found by the Auto Program function are initially set as "Added" channels.	Deleted Channels: These channels are blocked from tuning when using the CHANNEL Up and Down keys. However, they may be tuned directly by using the number keys on the remote control.	Surf Channels: "SURF" channels act as a list of favorite channels, intended for your most frequently watched channels. When the "SURF" mode is activated, these are the only channels that will be tuned while using the CHANNEL Up and Down keys.
Use the Up or Down arrow keys to choose Add/Del/Surf.	1. Use the Up or Down arrow keys to choose Add/Del/Surf.	<ol> <li>Use the Up or Down arrow keys to choose Add/Del/Surf.</li> <li>Select a channel using the number keys.</li> </ol>
2. Select a channel using the number keys on the remote.	2. Select a channel using the number keys on the remote.	<ol> <li>Use the Left/Right arrows to show Surf.</li> <li>Repeat steps 2 and 3 make your most frequently watched</li> </ol>
3. Use the Left/Right arrows to show Added.	3. Use the Left/Right arrows to show Deleted.	channels "Surf" channels.  5. Press QUIT to remove the menu from view.
4. Press QUIT to remove the menu from view.	4. Press QUIT to remove the menu from view.	To activate "SURF" mode, press the SURF key on the remote control.
		Surf's Up! 🛊 appears on the screen.
		To deactivate "SURF," press SURF again.
		No Surfing (8) appears on the screen.

#### USING CHANNEL LABELS

## To assign CHANNEL LABELS:

- 1. Select Channel Labels.
- 2. Select a channel by using the number keys on the remote.
- 3. Use the Left/Right arrows to sequence through the choices until the desired label appears. (Selecting the dashes specifies no channel label.)



Ch 2 CBS

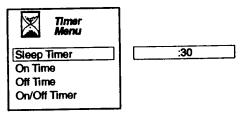
## TIMER SETUP: Sleep Timer

The Sleep Timer programs the TV to automatically turn itself off after a period from 15 minutes up to 4 hours.

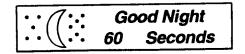
From Setup Menu	Direct From Timer Button	
1. Make sure the TV's clock is set.	1. Press TIMER on the remote control.	
2. Select Timer Setup and press a Left/Right arrow to view the <i>Timer Menu</i> .	2. Press TIMER repeatedly to set the period of time the TV will remain on.	
3. Select Sleep Timer.		
4. Press a Left/Right arrow repeatedly to set the period of time the TV will remain on.		
One minute before the TV turns off, the GOOD NIGHT display appears on the screen. At this time you have a choice of the following two actions:		
1. Do nothing. The TV will turn itself off in one minute.		
2. Delay the turn-off by pressing TIMER.		

#### **NOTES:**

- Before the *Timer Menu* can be viewed, you must set the time on the TV. See "WHAT YOU SHOULD DO FIRST" in the operating guide.
- To cancel the SLEEP TIMER, turn off the TV or press the Timer button repeatedly until OFF is showing.



Sleep Timer set to turn TV off in 30 minutes.



"Good Night" display appears 60 seconds before shut-off.

## SETUP MENU

#### TIMER SETUP:On/Off Timer

The ON/OFF TIMER is a feature which programs the TV to turn itself on at a specific time then turn itself off at another time.

#### Set On/Off Timer

- 1. Make sure the TV's clock is set.
- 2. Select Timer Setup and press a Left/Right arrow to view the Timer Menu.
- 3. Select On Time and use the numbered buttons on your remote to enter a time for the TV to turn itself ON. Press TIMER on the remote to select AM or PM.
- Select Off Time and use the numbered buttons on your remote to enter a time for the TV to turn itself OFF. Press TIMER on the remote to select AM or PM.
- 5. Select On/Off Timer and use a Left/Right arrow to show ON.
- 6. Press QUIT on your remote control to remove the menu from view.



11:00 AM «(TIMER) 1:00 PM «(TIMER) On

On/Off Timer set to turn TV ON at 11:00 am and OFF at 1:00 pm.

#### **NOTES:**

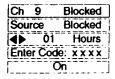
- ☐ An "Off Time" must be set before the On/Off Timer can be turned ON.
- Defore the *Timer Menu* can be viewed, you must set the time on the TV. See "WHAT YOU SHOULD DO FIRST" for details.

#### USING PARENTAL CONTROL

#### To "block" channels or the Video Input Source:

- Select Parental Ctl and press a Left/ Right arrow to view the Parental Control menu.
- 2. Select Block Ch. (channel).
- Use the number keys on the remote to enter a channel number and press a Left/ Right arrow to show "Blocked.".
- 4. Repeat steps 3 and 4 for each channel you want blocked.
- If you wish to block the Video source input, select Block Video and press a Left/ Right arrow to show "Source Blocked.".
- 6. After all desired channels and/or the Video source are "Blocked," select Set Hours and use the Left/Right arrows to choose the period of time you want Parental Control to be active: From 1 hour to 99 hours.
- 7. Select Set Password.
- 8. Press a Left/Right arrow and enter any 4-number "Password" when prompted to do so. (You will be prompted to verify the code by entering it a second time.)
- 9. Select Lock On/Off and use the Left/ Right arrows to show "On."
- 10. Press QUIT to remove the menu from view.

# Parental Control Block Ch. Block Video Set Hours Set Password Lock On/Off

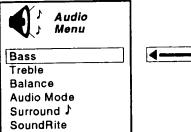


**Parental Control Menu** 

#### NOTES:

- REMEMBER THE ACCESS CODE! TO RE-ENTER PARENTAL CONTROL WHILE IT IS ACTIVATED, YOU MUST ENTER THIS NUMBER. Otherwise, simply allow the specified period of time to elapse.
- □ Do not unplug the TV in an attempt to deactivate the Parental Control. This only resets Parental Control.
- ☐ Parental Control cannot be turned ON (Lock On/Off) until the Hours and Password have been set.

# **AUDIO MENU**





#### **MENU OPERATION**

Press MENU repeatedly until the Audio Menu is shown.







Press the Left or Right arrows to adjust the selected option.

Press the Up or Down arrows until the desired option is selected.







Press QUIT or wait a few seconds for the TV to return to normal operation.

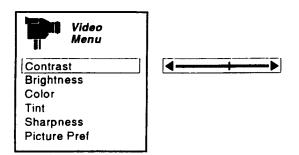
Menu Option	Function Of Menu Option			
Bass	Adjusts the BASS (low-frequency) level.			
Treble	Adjusts the TF	Adjusts the TREBLE (high-frequency) level.		
Balance		lance of sound between the two speakers.		
Audio Mode	Allows you to select Stereo, Mono or 2nd Audio/SAP speaker operation. See information below this chart for more details.			
	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 Left and Right speakers, even if the program being received is in stereo.		
	2nd Audio/ SAP:	Directs the sound for the Second Audio Program (second language) to both the Left and Right speakers. SAP sound is always monaural. (SAP is not available while Video is chosen as the viewing source: The audio signal being received from the auxiliary video source is assumed to be either stereo or mono.)		
Surround 1	Used to activate the "front" channel surround sound decoder of the TV. You can then listen to front channel surround sound audio from the TV's speakers. (Surround sound audio will only be heard if the program being watched is in stereo and is encoded with surround sound.)			
SoundRite	Turn this feature ON to maintain the television's volume at a constant level. In other words, commercials and audio from the auxiliary input source will no longer appear to sound louder than the volume level you have set.			

#### NOTES:

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- ☐ Adjustments to the Audio Menu are optional. You do not have to adjust these features in order to use your TV.
- With "Stereo" as the selected Audio Mode, the TV switches automatically between Stereo and Mono sound depending on the actual signal being received.
- With "SAP" as the selected Audio Mode, you hear the SAP (usually a second language) on those stations which broadcast two audio signals. 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**



#### **MENU OPERATION**

Press MENU repeatedly until the *Video Menu* is shown.





Press the Left or Right arrows to adjust the selected option.

Press the Up or Down arrows until the desired option is selected.







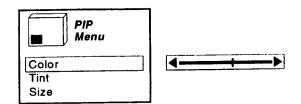
Press QUIT or wait a few seconds for the TV to return to normal operation.

<b>Menu Option</b>	Function of Menu Option			
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 to more Red or more Green.			
Sharpness	pness Adjusts the definition of the object edges for best picture quality.			
Picture Pref. (Preference)  Selects the video adjustments to be used: (CUSTOM = your personal adjustment preferences; PRESET = factory set adjustments.)				

#### **NOTES:**

- All adjustments on the *Video Menu* are optional. It is not necessary to use these features in order to operate the TV.
- Any adjustments made to the *Video Menu* settings while Picture Pref. is in "Preset" mode will automatically store the current settings as the "Custom" setting.

# **PIP MENU**



## **MENU OPERATION**

Press MENU repeatedly until the *PIP Menu* is shown.





Press the Left or Right arrows to adjust the selected option.

Press the Up or Down arrows until the desired option is selected.







Press QUIT (or wait a few seconds) to remove the menu from view.

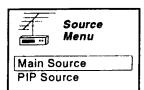
#### NOTE:

Menu Option	Purpose of Menu Option			
Color	lor Adjusts the intensity of the colors in the PIP inset.			
Tint	Adjusts the color of the flesh tones in the PIP window to more Green or more Red.			
Size Selects either a small or large PIP window.				

#### NOTE:

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

# **SOURCE MENU**

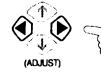


Antenna/Cable

#### **MENU OPERATION**

Press MENU repeatedly until the **Source Menu** is shown.





Press the Left or Right arrows to adjust the selected option.

Press the Up or Down arrows until the desired option is selected.



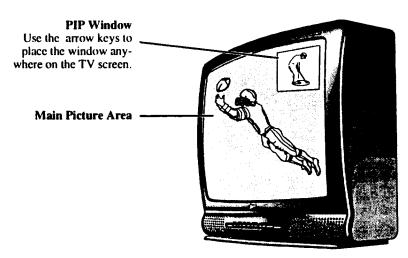


Press QUIT or wait a few seconds for the TV to return to normal operation.

Menu Option	Purpose of Menu Option		
Main Source	Selects the television's input signal source for basic television viewing. In other words, will your primary television viewing be from the antenna or cable box that is connected to the Antenna/Cable jack on the back of the TV. Or, will you mostly watch TV via a VCR (or other audio/video device) connected to the A/V jacks on the back of the TV. Select either Antenna/Cable or Video.		
PIP Source	Selects the television's input signal source that is providing the video for the PIP window. Select either Antenna/Cable or Video.		

#### NOTE:

The sources may also be changed directly by pressing the SOURCE key on the remote control. When no PIP window is on, the SOURCE key selects the source for the main picture. If the PIP window is on, SOURCE selects the source for the PIP window.



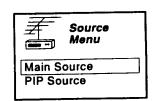
In order to show two <u>different</u> channels on the TV at the same time, one signal source (antenna, cable box, etc..) must be connected to the Antenna/Cable jack and a different signal source (VCR, Laser Disk, etc..) must be connected to the A/V jacks.

# PIP CONNECTIONS AND OPERATION

#### INTRODUCTION

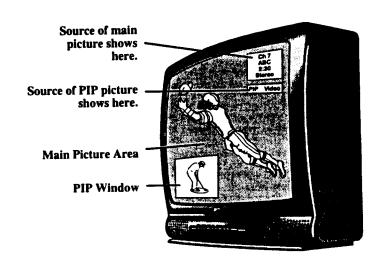
Your TV must be connected to two separate sources in order to view a different picture in the PIP inset from that which is showing in the main picture area of the TV. One source (such as an antenna) must be connected to the ANTENNA/CABLE jack. The other source (such as a VCR) must be connected to the AUX INPUT AUDIO and VIDEO jacks. If you have not already selected the input sources for your main TV picture and the PIP window, refer to the instructions below.

DID pleture cource \*



Antenna/Cable

Main picture source	PIP picture source
1. Show Source Menu on the TV.	1. Show Source Menu on the TV.
2. Select Main Source.	2. Select PIP Source.
3. Press a Left/Right arrow re peatedly to show Antenna. Cable.	3. Press a Left/Right arrow repeatedly to show Video.
* A PIP window appears duris	ng Source Menu operations to show



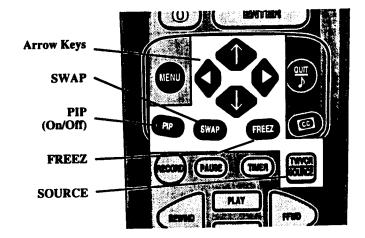
#### PIP FUNCTIONS

the effect of choosing a PIP source.

The remote control buttons which are most frequently used for PIP operations are shown here. In addition to these, other buttons on the remote such as the CHANNEL Up/Down buttons may affect the PIP window, depending on your source selection.

#### **PIP Functions**

- Arrow Keys: Use the Left/Right and Up/Down arrow keys to move the PIP window to the desired location of the TV screen.
- SWAP: Press the SWAP key to swap the main picture with the PIP window. Press SWAP again to return to the original display.
- PIP On/Off: Press the PIP key to display the PIP window. Press it again to remove the PIP window.
- FREEZE: Press FREEZ to freeze motion of the picture shown in the PIP window. Press FREEZ again to return to a live PIP window.
- SOURCE: When the PIP window is on, SOURCE selects the source for the PIP window.
- PIP Size: Select Size in the PIP Menu to choose between seeing a small or large PIP window.



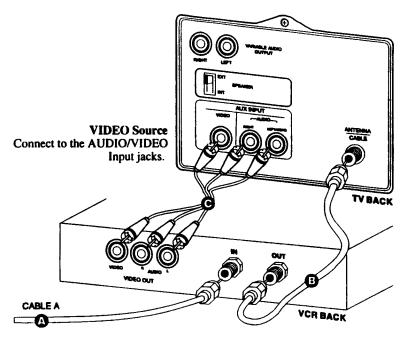
# PIP CONNECTIONS AND OPERATION

#### BASIC PICTURE-IN-PICTURE OPERATION

This illustration shows the basic connection of your TV to a stereo VCR. With your equipment setup in this manner, your television has the following PIP capabilities:

- ☐ Simultaneously view a video tape playing in the VCR and a channel selected by the TV's tuner.
- ☐ Simultaneously view two different channels; one selected by the TV's tuner and another using the VCR's tuner.
- ☐ Swap the main picture and the PIP inset.

	PIP VIEWING OPTIONS				
Viewing Two Different Channels			Viewing a Video Tape and a TV Channel		
1.	Set VCR's TV/VCR* switch to TV.	1.	Set VCR's TV/VCR* switch to TV.		
2.	Select <b>Main Source</b> in the Source Menu.	2.	Select <b>Main Source</b> in the Source Menu.		
3.	Press a Left/Right arrow to select Antenna/Cable.	3.	Press a Left/Right arrow to select Antenna/Cable.		
4.	Select PIP Source in the Source Menu.	4.	Select <b>PIP Source</b> in the Source Menu.		
<b>5</b> .	Press a Left/Right arrow to select Video.	5.	Press a Left/Right arrow to select Video.		
6.	Press QUIT to remove the menu from view.	6.	Press QUIT to remove the menu from view.		
7.	Press PIP key to activate PIP.	7.	Press PIP key to activate PIP.		
8.	Select a TV channel using the TV's channel selector.	8.	Select a TV channel using the TV's channel selector.		
9.	Select a PIP channel using the VCR's channel selector.	9.	Play a video tape in the VCR and view it in the PIP window.		
*	May be labeled TV/Video.				



Antenna/Cable Source Connect to the ANTENNA/ CABLE jack.

Option 1: Antenna or Direct Cable Connection to VCR. (Cables are not supplied with television.)

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# PIP CONNECTIONS AND OPERATION

# OPTIONAL PICTURE-IN-PICTURE OPERATION

With your equipment setup in this manner, your television has the following PIP capabilities:

- ☐ Simultaneously view a video tape playing in the VCR and a basic cable channel selected by the TV's
- ☐ Simultaneously view two different channels; one basic cable channel selected by the TV's tuner and a scrambled (premium) cable channel selected by the decoder's tuner.
- ☐ Swap the main picture and the PIP inset.

#### NOTE:

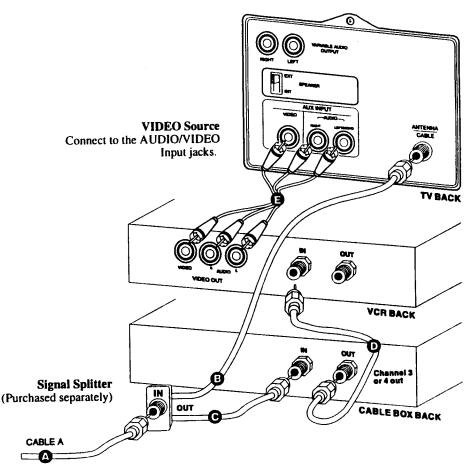
☐ The cable channels you can view depends on the service you have purchased from your cable company.

Γ	PIP VIEWING OPTIONS			
_	Viewing Two Different Channels	Viewing a Video Tape and a TV Channel		
1.	Select Main Source in the Source Menu.	1.	Sclect Main Source in the Source Menu.	
2.	Press a Left/Right arrow to select Antenna/Cable.		Press a Left/Right arrow to select Antenna/Cable.	
3.	Select <b>PIP Source</b> in the Source Menu.	3.	Select PIP Source in the Source Menu.	
4.	Press a Left/Right arrow to select Video.	4.	Press a Left/Right arrow to select Video.	
5.	Press QUIT to remove the menu from view.	5.	Press QUIT to remove the menu from view.	
6.	Press PIP key to activate PIP.	6.	Press PIP key to activate PIP.	
	Select a TV channel using the TV's channel selector.	7.	Select a TV channel using the TV's channel selector.	
8.	Select a PIP channel using the cable box.	8.	Play a video tape in the VCR and view it in the PIP window.	

Antenna/Cable

ANTENNA/ CABLE jack.

Source Connect to the



Option 2: Cable-TV Connection Direct to TV & Cable Box to VCR. (Cables are not supplied with television.)

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# **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.

#### 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 airdry before turning it on.

Wood Cabinets or Cabinet Components Use any good furniture cleaner and polish. Regular care will help preserve the finish.

#### **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.

#### **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:

**Speckled or Streaked Picture** Can be caused by nearby automobile ignition, electrical appliances, etc. 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.

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# 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. Adjust <i>Audio Menu</i> options. Check for local interference. Is antenna/cable connection loose?
Sound OK. Poor picture.	Re-orient antenna. Try another channel — possible station trouble. Adjust <i>Video Menu</i> options. Trouble with cable-TV system? Is antenna/cable connection loose?
No picture or sound.	Is TV on? Is there power in wall outlet? Is TV plugged in? Is antenna hooked up? Is cable hooked up? Is the channel blocked by the Parental Control? Trouble with cable-TV system? Check auxiliary audio/video equipment. Check channel selection.
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 <i>Video Menu</i> options.
No sound.	Volume setting may be too low. Check MUTE button operation on remote control. Check Audio Mode in <i>Audio Menu</i> : Audio Mode may be set to SAP, but no SAP signal is detected on the channel.
Cannot select certain channels.	Channels may be skipped in Add/Del/Surf option of Setup Menu.
No closed captions	Are captions available? Is Caption 1, 2, 3 OR 4 selected using the Caption/Text option on the Setup Menu?
Black box covers half of screen.	Is text information available? Is Text 1, 2, 3 or 4 selected in the Caption/Text option of the Setup Menu.
No picture or sound when Video source is selected.	Is audio/video source hooked up properly? Are all wires connected to VIDEO IN 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 VIDEO source?
PIP window is black or lacks contrast when selecting Video for PIP inset.	Adjust PIP Color and Tint settings in PIP Menu. Are all wires connected to VIDEO IN jacks on connection center?
PIP window is "snowy" when using Antenna/Cable for PIP and Video for main picture.	Is TV/VCR switch on the VCR in the TV position?
Complete picture loss when using Video for PIP window source and Antenna/Cable for main picture.	Is TV/VCR switch on the VCR in the TV position?
TV appears to remain on the same channel when using the Channel Up and Down keys.	Check Add/Del/Surf option in <b>Setup Menu</b> : Is only one channel labeled as "Added?" If operating TV in Surf mode, is only one channel labeled as "Surf?"
Remote control does not work.	Are batteries okay? Is TV turned ON? Is TV plugged in?

#### **NOTES:**

- 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.
- Unplugging the TV does not deactivate the Parental Control.

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

# YOUR ZENITH TV WARRANTY

## **DIRECT-VIEW COLOR TV**

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

## Zenith's Responsibility

Service Labor — During a period of 90 days from effective warranty date, Zenith will pay for service labor by a Zenith authorized service center when needed as a result of manufacturing defects.

Parts — New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

Home Service — Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

Not Covered — This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.



Before you ask for Warranty service, check the operating guide section entitled, "Maintenance And Troubleshooting." It may be possible to avoid a service call.

## 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 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

Antenna — Reception problems caused by inadequate home 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 any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write:

Zenith Electronics Corporation Customer Service Department 1000 Milwaukee Avenue Glenview, IL 60025-2493 Telephone: (847) 391-8752

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

# ADDITIONAL ZENITH PROTECTION PLAN AVAILABLE

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

Be sure to send in the **Product Registration Card**. We will send you an application for the Protection Plan near the expiration of the two year manufacturer's warranty on the picture tube. You may also register by calling (847) 391-8757.