Advanced Video Imaging

Projection
Color TV
MTS Stereo
Picture-In-Picture

Operating Guide & Warranty

for Models

RZ46Z83D	**Z46Z83D**
RZ50Z83D	**Z50Z83D**
RZ56Z83D	**Z56Z83D**
	Z60Z83D

ZENITH®

THE QUALITY GOES IN BEFORE THE NAME GOES ON

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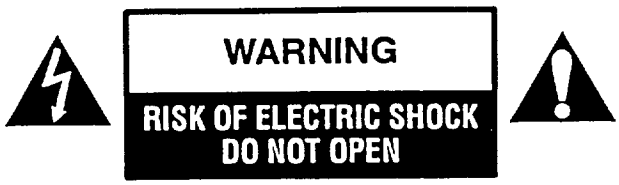
Return the *Product Registration Card* and your TV could be *FREE!*

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

SAFETY WARNINGS



WARNING:

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

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SAFETY TIPS

Refer to the "Important Safety Instructions" section of this operating guide for important safety considerations.

WARNING

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

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 National Electrical Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

POWER-CORD POLARIZATION

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). As a safety feature, this plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails 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.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician.

CAUTION: Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

"Ce appareil numérique de la class b repecte toutes les exigences du Règulement sur le matériel brouillier du Canada."

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IMPORTANT SAFETY INSTRUCTIONS

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 from your new product.

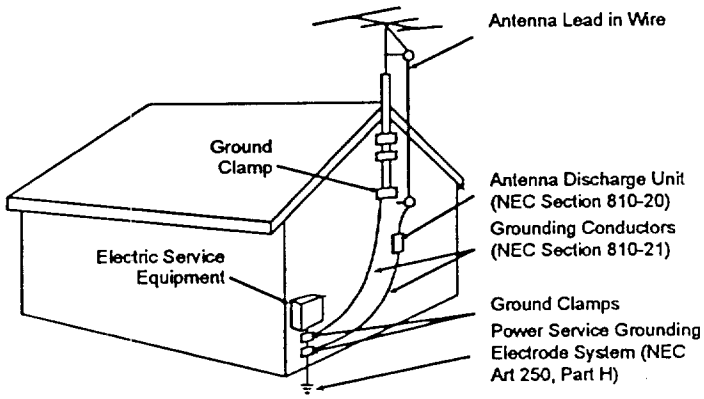
1. **Read Instructions**
   Read all the safety and operating instructions before operating the product.
2. **Follow Instructions**
   Follow all operating and use instructions.
3. **Retain Instructions**
   Keep the safety and operating instructions for future reference.
4. **Heed Warnings**
   Follow all warnings on the product and in the operating instructions.
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, washbowl, kitchen sink, 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**
   Move product and cart combinations 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 must not be blocked or covered. They are provided for ventilation, to ensure reliable operation, and to protect from overheating. Never block the openings 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**
    Operate this product 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). As a safety feature, this plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. **Power-Cord Protection**
    Route power-supply cords 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.

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, take extreme care 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; 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 that 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
Mount the product to a wall or ceiling only as recommended by the manufacturer.

24. Heat
Keep the product away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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Aviso para nuestros clientes de habla hispana

Zenith Questionnaire

Your Zenith Warranty

FEATURES PROVIDED WITH YOUR TV

This operating guide describes a family of TV models. Most models include the following features:

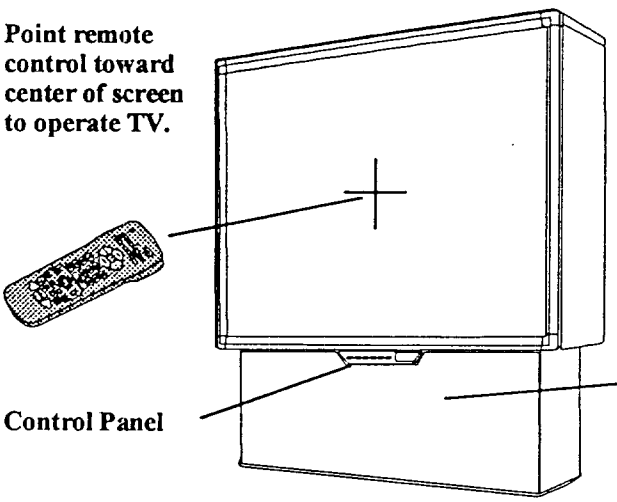
• PIP (Picture-In-Picture) with Audio Swap	• Automatic Demonstration Showing Available Menus
• Menus Accessed By Remote or Control Panel	• Sleep Timer and On/Off Timer
• Multi-Brand Programmable Remote	• Automatic Channel Programming
• Parental Control	• Icon/Trilingual (English/ Spanish/ French) Menus
• Surround Sound (Front and Rear)	• Captions/Text When Audio Is Muted
• MTS Stereo	• Audio/Video Input Jacks for Stereo VCR
• SAP (Second Audio Program)	• 181 Channel Tuning, STD/HRC/ICC Bands
• SoundRite Channel Changing Volume Control	• Antenna/Cable Input Jack
• Channel Add/Delete/Surf	• Variable Audio Output Jacks
• Channel Labels for Easy Channel Identification	• Source ID lables— selectable, may be edited

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

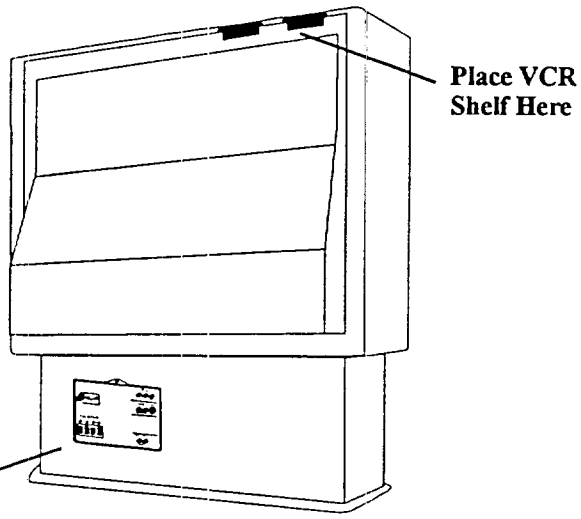
CONNECTIONS FOR YOUR TV

LOCATION OF USER ITEMS

The items shown below are important to the operation of your TV. Get to know them, because they will be referenced throughout this operating guide.



Front View of Typical TV



Rear View of Typical TV

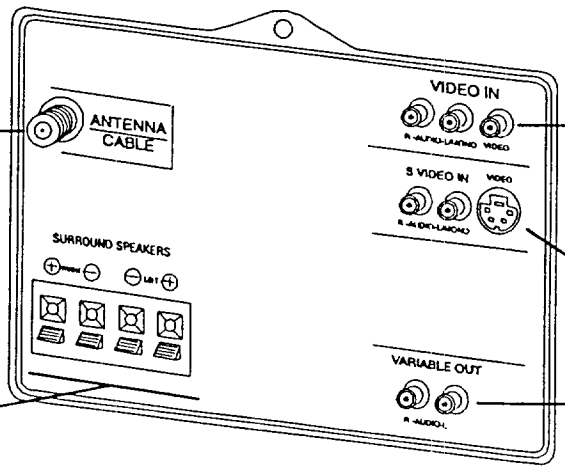
CONNECTIONS CENTER

Locate the Connection Center on the back of the TV.

Turn off power or unplug TV power cord before making any connections.

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

SURROUND SPEAKER TERMINALS
Connections for output to optional Surround Sound speakers.



VIDEO IN
Jacks for audio and video input from a stereo VCR or other A/V component. (Connect to these jacks to hear stereo sound when playing a stereo tape.)

S-VIDEO IN
Jacks for audio and video input from a Super-VHS component.

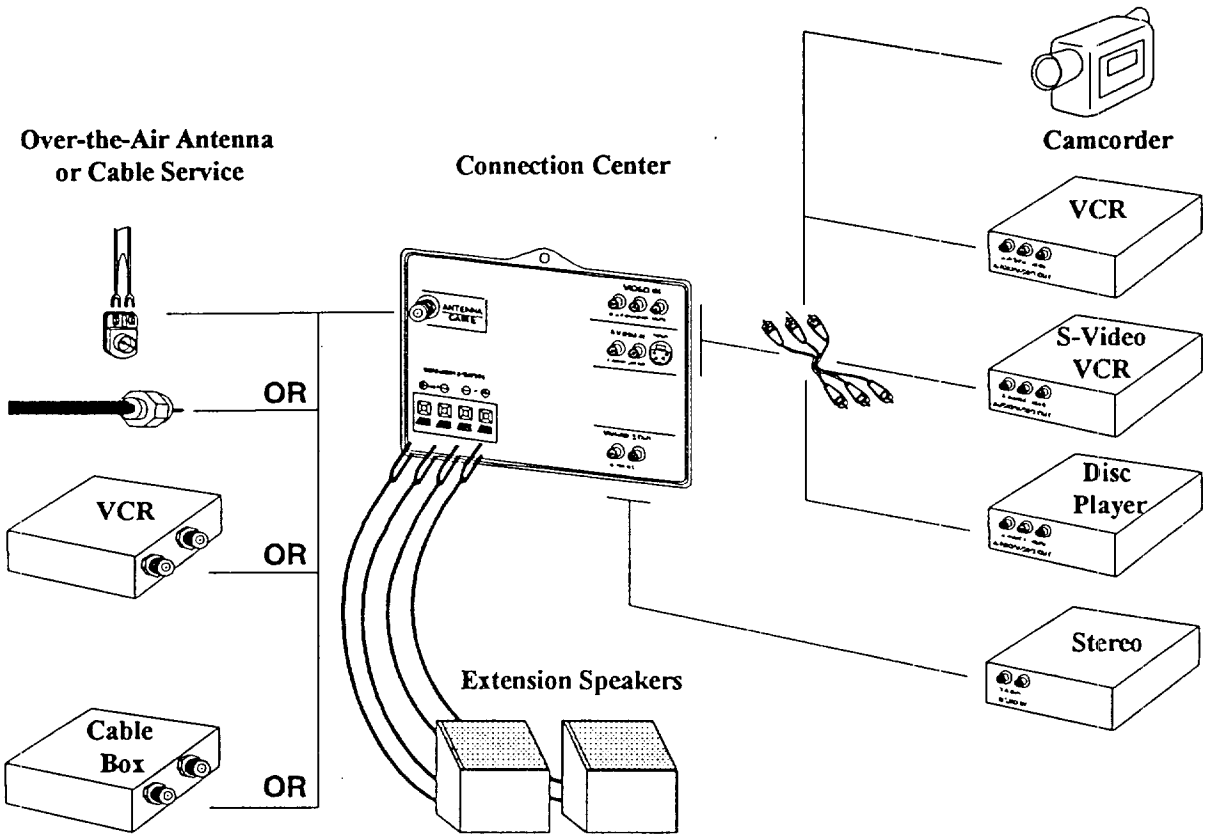
VARIABLE AUDIO OUTPUT
Standard phono jack connectors for output to an optional stereo amplifier or to external speakers.

CONNECTIONS FOR YOUR TV

INTRODUCTION TO THE CONNECTION CENTER

Shown below are examples of the type of "Source" equipment you can connect to your TV. Your antenna or cable service line should be connected to Antenna/Cable. If you have a cable box, connect it to Antenna/Cable. Use the Audio/Video connections for accessory equipment like a VCR. To hear stereo audio from your stereo VCR during tape playback, use the Audio/Video connections. See the recommended setup options listed on the following pages.

EQUIPMENT CONNECTION OPTIONS



Input Source Jacks on Connection Center
Antenna/Cable In Jack
Video In Jacks
S-Video In Jacks

Output Jacks on Connection Center
Variable Audio Out Jacks
Surround Speakers Out Jacks

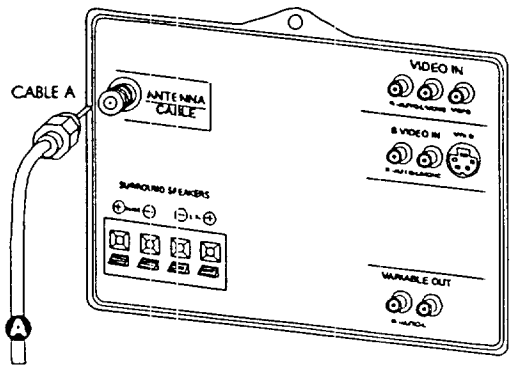
CONNECTIONS FOR YOUR TV

SETUP 1: ANTENNA OR DIRECT CABLE

If you receive your TV signal by antenna or direct cable (no cable box), connect your TV this way.

Turn off power or unplug TV before making any connections to your TV.

Cable	Leading from	Connected to
A 75 ohm Cable	Wall Jack— From Antenna or Cable Service	TV— "Antenna/Cable"



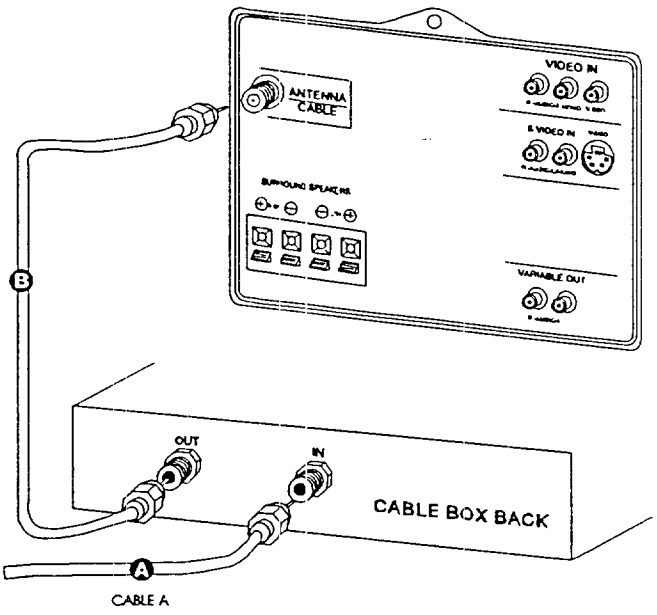
Antenna or Cable-TV Connection

SETUP 2: CABLE BOX

If you receive your TV signal from a cable box, connect your TV this way.

Turn off power or unplug TV before making any connections to your TV.

Cable	Leading from	Connected to
A 75 ohm Cable	Wall Jack— Cable Service	Cable Box— "In"
B 75 ohm Cable	Cable Box— "Out"	TV— "Antenna/Cable"
Note: Cables shown are not supplied with this TV, but can be purchased at your local TV dealer.		



Cable Box Connection

CONNECTIONS FOR YOUR TV

SETUP 3: ANTENNA OR DIRECT CABLE AND VCR

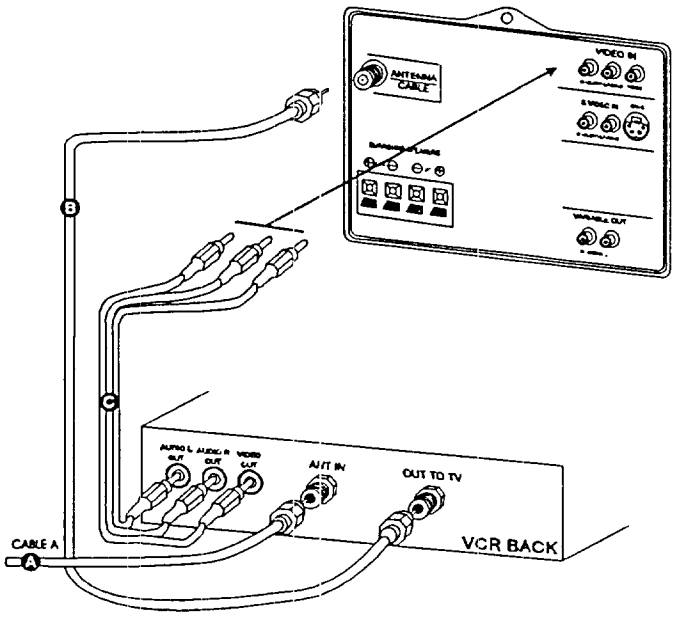
If you receive your TV signal through your VCR, connect your TV this way.

Turn off power or unplug TV before making any connections to your TV.

Cable	Leading from	Connected to
A 75 ohm Cable	Wall Jack— From Antenna or Cable Service	VCR— "Ant In"
B 75 ohm Cable	VCR— "Out to TV"	TV— "Antenna/Cable"
C Audio/Video Cables	VCR— "R-Audio- L/Video Out"	TV— "Video In"

Notes:

- ❑ Use the Audio/Video connections to hear stereo sound from your stereo VCR.
- ❑ Cables shown are not supplied with this TV, but can be purchased at your local TV dealer.



Standard VCR Connection

SETUP 4: CABLE BOX AND VCR

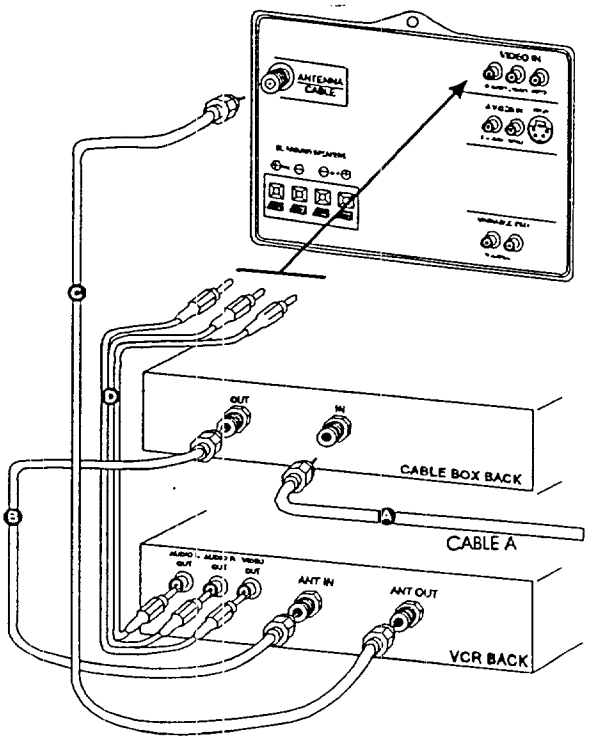
If you receive your TV signal through your cable box and VCR, connect your TV this way.

Turn off power or unplug TV before making any connections to your TV.

Cable	Leading from	Connected to
A 75 ohm Cable	Wall Jack— From Antenna or Cable Service	Cable Box— "In"
B 75 ohm Cable	Cable Box— "Out"	VCR— "Ant In"
C 75 ohm Cable	VCR— "Ant Out"	TV— "Antenna/Cable"
D Audio/Video Cables	VCR— "R-Audio- L/Video Out"	TV— "Video In"

Notes:

- ❑ Use the Audio/Video connections to hear stereo sound from your stereo VCR.
- ❑ Cables shown are not supplied with this TV, but can be purchased at your local TV dealer.



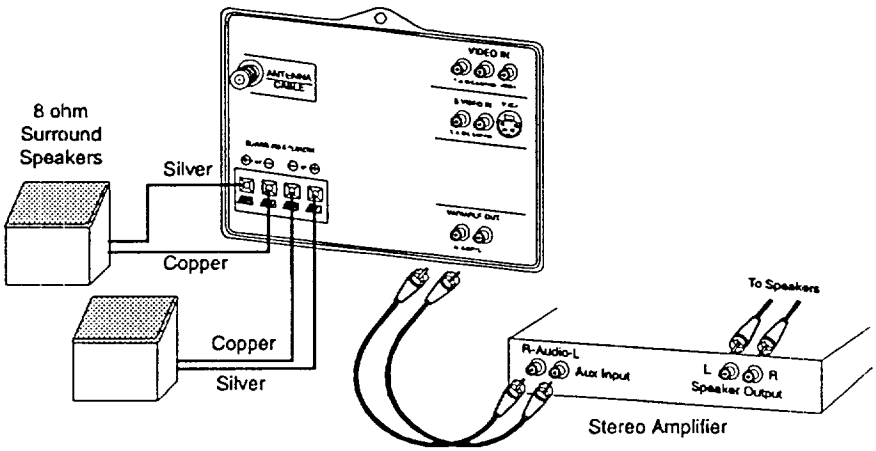
Cable Box and VCR Connection

CONNECTIONS FOR YOUR TV

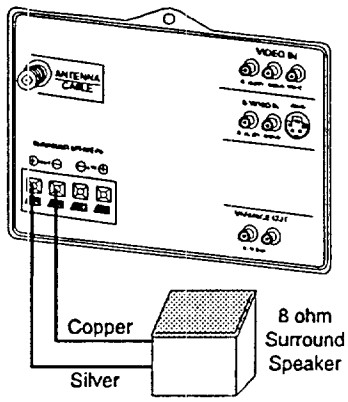
OPTIONAL CONNECTIONS FOR AUDIO AMPLIFIER AND SURROUND SOUND

To listen to the TV through an external amplifier or stereo system, or to listen to Surround Sound audio, make the connections to the TV this way.

Turn off power or unplug TV before making any connections to your TV.



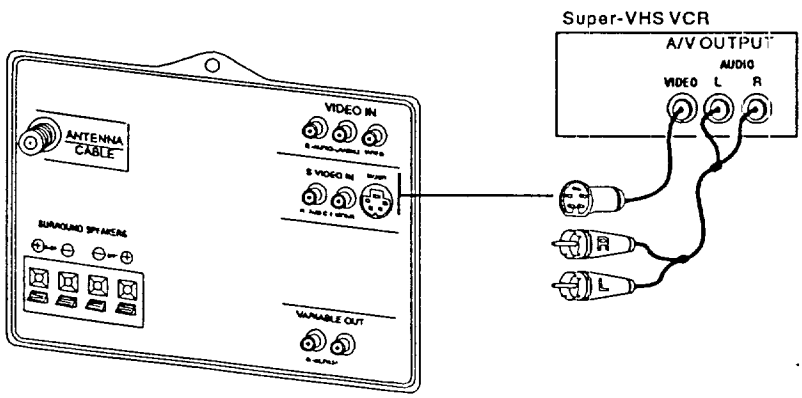
Amplifier and Dual Surround Speaker Connections



Single Surround Speaker Connection

WAYS TO LISTEN TO YOUR TV		
TV Speakers On (some models only)	**TV Speakers Off (some models only)**	**Surround Sound**
❑ Press **MENU** repeatedly until the **Audio Menu** appears. Press Up/Down arrows to select **Speakers**. Press Left/Right arrow to turn On. When TV speakers are On, sound comes from both the TV's speakers and the external amplifier's speakers.	❑ Press **MENU** repeatedly until the **Audio Menu** appears. Press Up/Down arrows to select **Speakers**. Press Left/Right arrows to turn Off. When TV speakers are Off, sound comes from the speakers connected to the external amplifier.	❑ Connect Surround Sound speakers as shown. The level of Surround Sound will vary depending on the program you are watching. **Note:** Not all programs have Surround Sound audio. ❑ The SURROUND SPEAKER terminals are always active.
❑ Use TV's volume control to raise and lower the sound level from both sets of speakers.	❑ Use TV's volume control to raise and lower the sound level from the amplifier's speakers.	❑ If you want to connect only 1 surround speaker to your TV, connect the speaker wires to either the left or right set of terminals as shown.

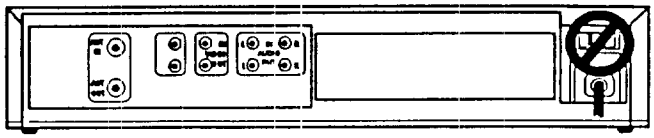
OPTIONAL CONNECTIONS FOR S-VHS VCR



QUICK SETUP GUIDE

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

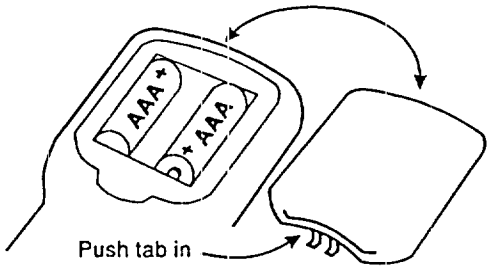
Your TV is designed to operate on normal household current, 120 volt 60 hertz AC. Do not attempt to operate it on DC current.

② INSTALL THE BATTERIES INTO THE REMOTE CONTROL

Batteries are provided with your TV.

To Install the Batteries:
1. Open the battery compartment by pressing in on the tab and lifting the cover off.
2. Place the batteries into the compartment matching plus with plus (+ with +) and minus with minus (- with -), following the markings inside the battery compartment.
3. Replace the compartment cover.

Unless your equipment responds to factory preset codes, you will need to reprogram the remote control with codes from your particular equipment each time you replace batteries. Refer to "Get To Know Your MBR 3457 Remote Control" for details.

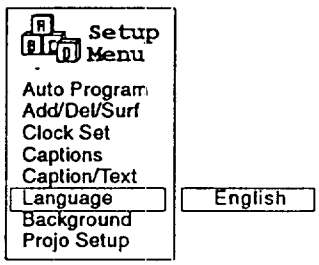


Multi-Brand Remote Control (Uses 2 size AAA batteries)

③ SELECT YOUR LANGUAGE

The on-screen menus can appear in English, Spanish, or French. The language selections always appear in English regardless of which language you choose.

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



Setup Menu with Language Highlighted

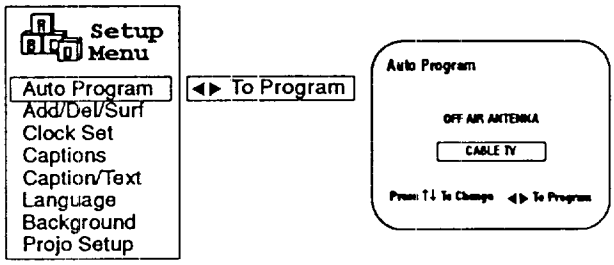
Continued on next page

QUICK SETUP GUIDE

④ USE AUTO PROGRAM

Auto Program finds all available channels and stores them in the TV's memory. The first time you turn on your TV, Auto Program will be selected in the **Setup Menu**.

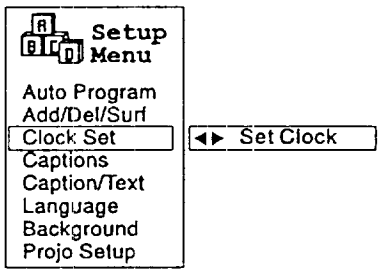
To Start Auto Program:
1. Press **MENU** repeatedly to view the **Setup Menu**.
2. Select Auto Program.
3. Use the Left/Right arrows to advance to the next menu.
4. Select either OFF AIR ANTENNA or CABLE TV.
5. Use the Left/Right arrows to begin the channel search.



Setup Menu with Auto Program Highlighted

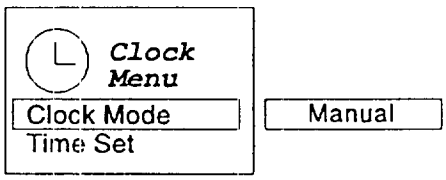
⑤ SET THE CLOCK

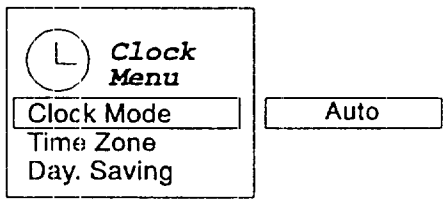
You must set the clock if you are going to use features like the on/off timer.



Setup Menu with Clock Set Highlighted

1. Press MENU repeatedly on your multi-brand remote until the Setup Menu is displayed, press the Up or Down arrow key to select **Clock Set**, then press a Left or Right arrow key to see the **Clock Menu**.		
2. Select **Clock Mode**, and press the Left or Right arrow key to select Auto or Manual. AUTO: TV sets the time automatically (while TV is turned OFF). MANUAL: Use the universal remote to set the time.		
AUTO	**or**	**MANUAL**
4. Use Up/Down arrows to select **Time Zone**, then press a Left/Right arrow to select **Auto** or a specific time zone.		4. Use Up/Down arrows to select **Time Set** and use the number keys to set the time.
5. Use the Up/Down arrows to select **Daylight Saving** then press a Left/Right arrow to select **Auto**, **On** or **Off.**		5. Press TIMER to select AM or PM.
6. Press QUIT to remove the menu.		6. Press QUIT to remove the menu.





Tip: In the Auto mode the time could be displaced by an hour if your TV receives a time-set signal from a station which is not in your time zone or if their is a discrepancy with daylight savings time.

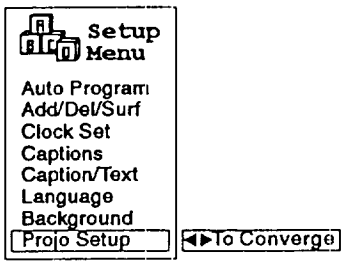
⑥ PROJO SETUP: CONVERGE COLORS

Convergence is the alignment of your TV's red and blue color lines. When you first install your projection TV or, if you notice color "fringes" around objects in the picture, you may need to adjust the convergence.

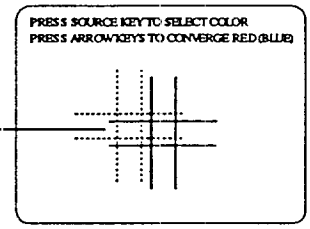
To Converge Colors

1. Press **MENU** repeatedly to see the **Setup Menu**.
2. Use Up/Down arrows to choose Projo Setup.
3. Press Left/Right arrows to view the convergence lines.
4. Press **TV/VCR SOURCE** key to select either red or blue lines to converge.
5. Press the Up/Down and Left/Right arrows to place the red (or blue) lines directly on top of the reference lines.
6. Repeat convergence procedure for the other color.
7. Press **QUIT/♪** to remove the menu, or wait a few seconds for the TV to return to normal operation.

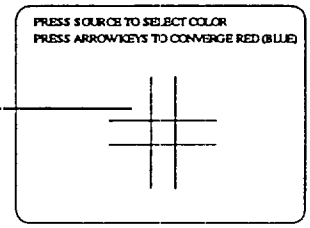
Note: Check the convergence each time you move the TV to a new location.



Follow the steps to align the color lines (red and blue) with the white lines.



Four intersecting white lines indicate the TV is properly converged. No adjustment is necessary.



⑦ GET TO KNOW THE ON-SCREEN MENUS

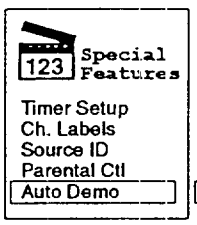
Your new TV automatically demonstrates on-screen menus to control its setup and operational features. Auto Demo shows the menus one-by-one, and begins after a short delay.

To Start Auto Demo:

1. Press **MENU** repeatedly to view the **Special Features** menu.
2. Select Auto Demo.
3. Use the Left/Right arrows to turn Auto Demo On or Off.
4. Press **QUIT/♪** to remove the menu.

Notes:

- ❑ Auto Demo continues to operate until you turn it Off in the **Special Features** menu.
- ❑ To turn Auto Demo Off, choose Off from the **Special Features** menu as shown at the right.



Setup Menu with Auto Demo Highlighted

If you press any key during Auto Demo operation, it will disappear from the TV screen, and then begin again after about 20 seconds.

⑧ USE OTHER MENU OPTIONS

- ❑ Create your own list of favorite channels. 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 undesirable channels. Refer to the Parental Ctl option for details.
- ❑ Adjust options in the **Audio** and **Video** menus according to your preferences.

GET TO KNOW THE TV'S CONTROL PANEL

CONTROL PANEL FUNCTIONS

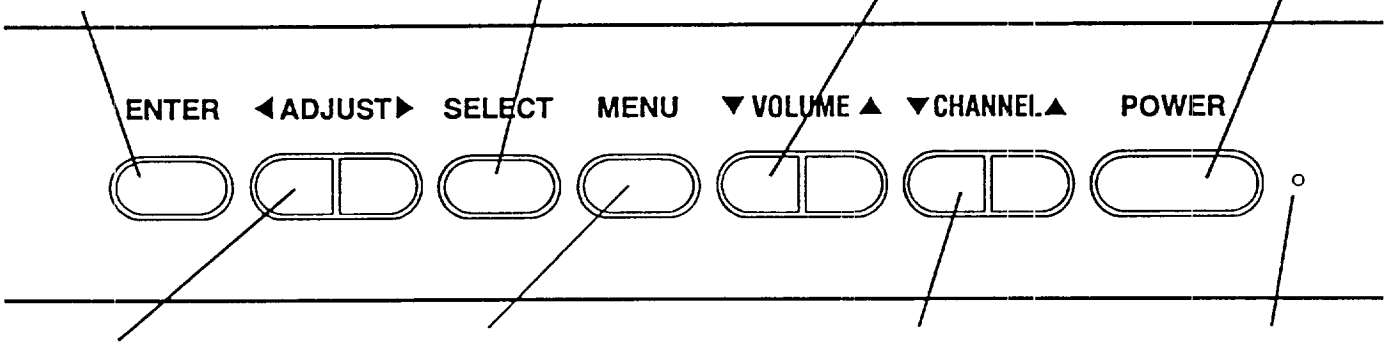
The control panel shown here may be slightly different from the one on your TV, but the control operation is the same. Most of the TV's features may be operated from the control panel. In addition, use the supplied remote control to access all of the built-in capabilities, such as last channel FLASHBACK and volume MUTE.

ENTER (ENT)
Shows and removes Channel/Time display and menus.

SELECT (SEL)
Selects menu options.

VOLUME (VOL) Down/Up
Changes the sound level.

POWER
Turns TV On or Off.



ADJUST (ADJ) Left/Right
Changes menu option.

MENU
Shows menus.

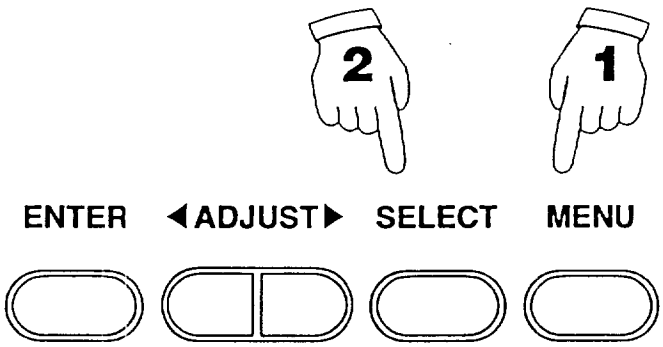
CHANNEL (CH) Up/Down
Changes channels.

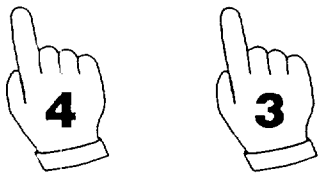
Light Emitting Diode (LED) Indicator
Indicates that power is on (some models only).

BASIC MENU OPERATION USING THE CONTROL PANEL

Press **SELECT** repeatedly to highlight the menu option you want to use.

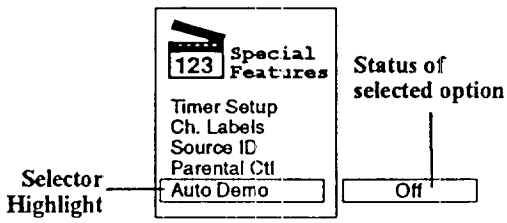
Press **MENU** repeatedly to choose between available menus.





Press **ENTER** to remove menus from view, or wait a few seconds and the menu will disappear.

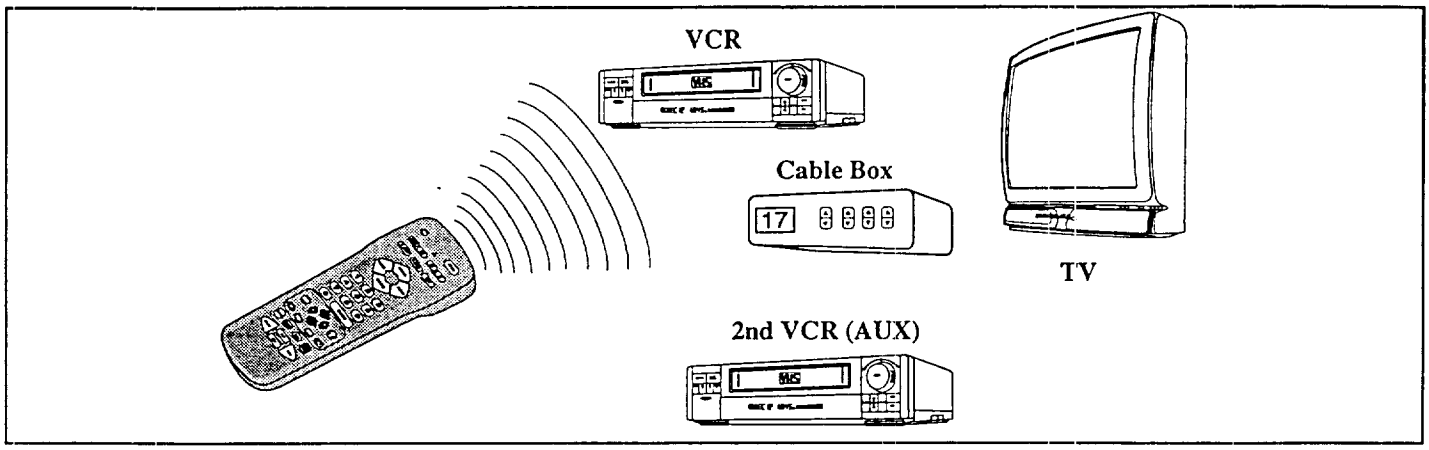
Press **ADJUST** Left or Right to choose an option.

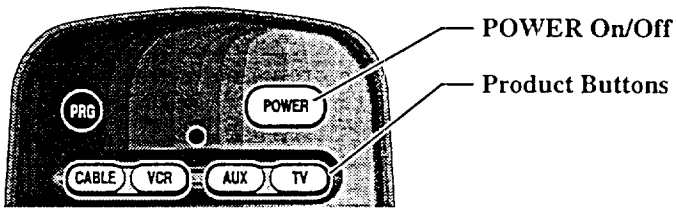


Example of Selected Menu Option

GET TO KNOW YOUR REMOTE (MBR3457)

SIMPLE PRODUCT OPERATION





For TV Operation

1. Press **TV**.
2. Aim remote at TV.
3. Press **POWER** to turn on TV.
4. Press other buttons to operate your TV's features.

For VCR Operation

1. Press **VCR**.
2. Aim remote at VCR.
3. Press **POWER** to turn on VCR.
4. Press other buttons to operate your VCR's features.

For Cable Box Operation

1. Press **CABLE**.
2. Aim remote at cable box.
3. Press **POWER** to turn on your cable box.
4. Press other buttons to operate your cable box's features.

For 2nd VCR Operation

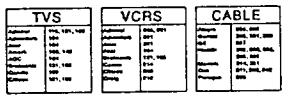
1. Press **AUX**.
2. Aim remote at 2nd VCR.
3. Press **POWER** to turn on VCR.
4. Press other buttons to operate your VCR's features.

Your remote can operate up to seven different products. Turn to the following pages for programming instructions. You can program the AUX button to operate a second TV or VCR, if desired.

GET TO KNOW YOUR REMOTE (MBR3457)

PROGRAMMING YOUR REMOTE

If you're using Zenith products, the remote is already programmed for the most common codes: TV = 101 , VCR = 201, CABLE = 353, and AUX = 401. For other brands, or if your remote fails to control your Zenith products, you'll have to program the remote.

Step-By-Step Instructions	Response On Remote
1. Install the batteries if you have not already done so.	
2. Press and hold (PRG) using a blunt object. Release PRG after the indicator light turns on.	Indicator light stays on to show you're in the programming mode.
3. Press then release the button for the product being programmed. (CABLE) (VCR) (AUX) (TV)	Indicator light flashes to show remote is ready to accept a code.
4. Enter 3-digit product code from the chart which follows. (1) (2) (3) (4) (5) (6) (7) (8) (9) (0) (ENTER) 	Indicator light flashes for each digit you enter.
5. Press then release (ENTER) to save the code.	Indicator light on remote flashes and turns off to show your code was accepted.
6. Point remote at product and press (POWER) to test the product's operation. If it does not turn on, reprogram the remote using a different code listed for your product.	Product turns On. If none of the codes listed for your product operates it, use Auto Find as described below.
7. Repeat the above steps to program the remote for another product.	

GET TO KNOW YOUR REMOTE (MBR3457)

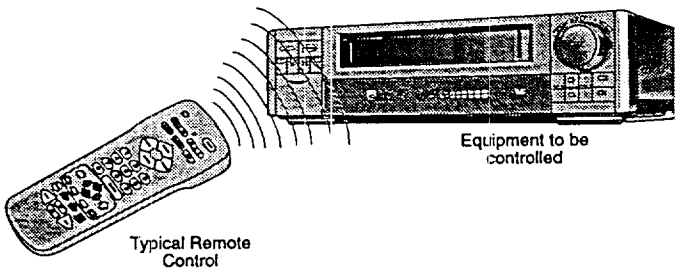
AUTO FIND OPTION (ALTERNATE PROGRAMMING METHOD)

If you've tried all the codes for your product and none operates it, you can use Auto Find to search for the code you need. Follow the steps below for each product you want to program. Please be patient while using this method; the remote may have to search all of the codes shown in the chart on the next page.

To Auto Find a Code
1. Turn On the product you want to operate.
2. Press and hold **PRG** using a blunt object. Release **PRG** after the indicator light turns on.
3. Press the key to be programmed: **CATV, VCR, AUX,** or **TV.**
4. Enter "**0-0-0,**" then press **ENTER** within two seconds. Auto Find is active when the indicator light flashes and remains lit.
5. Point the remote at the product.
6. Press and release **POWER** repeatedly, about once a second, until your product turns Off. The indicator light turns Off when you press **POWER** and On when you release it.
7. Press **ENTER** immediately to save the code. The indicator light flashes to indicate the code has been saved.
8. Press **POWER** to turn On your product.
9. Test your product. If the remote fails to operate the functions you use most often, use Auto Find again to search for a better code. (Auto Find resumes its search after the last code that was entered and saved in step 7.)

Notes:

- ☐ If the indicator light stays on as you press **POWER**, Auto Find has tried all of the codes. If the product you want to control has not turned off, your remote cannot work with it, in which case you must use the product's own remote control.
- ☐ To cancel Auto Find, press **PRG** at any time during Auto Find .



GET TO KNOW YOUR REMOTE (MBR3457)

OPERATING CODES BY BRAND NAME

TVS

Admiral	116, 121, 130, 133
Adventura TV/VCR	154
Akai	104
Amark	103, 146
AOC	104
Bell & Howell	121
Broksonic	131, 136
Candle	139
Centurion	119
Citizen	121, 139
Contec	141
Coronado	103
Crown	103
Curtis Mathes	116, 119, 121
Daewoo	149, 159
Daewoo TV/VCR	148
Daytron	119
Elektra	121
Emerson	103,104,123,124, 131, 136, 145
Emerson TV/VCR	158
Fisher	109, 118
Funai TV/VCR	154
General Electric	106, 107, 114, 116, 117, 161
Goldstar	103, 104, 119, 147
Goldstar TV/VCR	153
Hitachi	102, 103, 129, 163
J.C. Penney	104, 110, 114, 117, 119
JVC	125, 132, 164
KMC	103
KTV	103, 104, 138
Kurazai	121
Lodgenet	121
Logik	121
LXI	133, 137
Magnavox	103, 112, 113, 117, 119, 127, 128, 139, 165
Magnavox TV/VCR	173
Majestic	121
Marantz	104, 120, 155
Megatron	146
Memorex	121
MGA/ Mitsubishi	104, 119, 120, 130, 140, 155
Montgomery Ward	103, 104, 105, 113, 114, 119, 121, 130, 133
NEC	104, 119
Panasonic	106, 107, 160, 166
Panasonic TV/VCR	174
Philco	103, 104, 112, 113, 139
Philips	112, 113
Pioneer	135
Portland	103
ProScan	116, 157, 162, 167
Quasar	106, 107
RCA	104, 116, 126, 157, 161,162,167,168
Realistic	105, 123, 124
Sampo	119
Samsung	103, 119, 134, 141
Sanyo	108, 109, 118
Scott	119, 124
Sears	103, 108, 109,110, 111, 118, 134
Sharp	103, 105, 122, 133, 137, 156, 169
Signature 2000	103, 104, 105, 113, 114, 119, 121, 130, 133
Sony	115, 143, 151, 170
Soundesign	139
Sylvania	112, 113, 117, 119, 127, 128, 139
Symphonic TV/VCR	154
Tatung	106
Teknika	103, 112, 121, 124, 139
Telerent	103, 121
Toshiba	110, 111, 134, 171
XR1000	121
Yorx	119
Zenith	101, 149, 175
Zenith TV/VCR	153, 154, 172

VCRS

Admiral	208, 261
Adventura	231
Aiwa	231
Akai	223, 238, 241
Audio Dynamics	202, 218
Bell & Howell	206, 247
Broksonic	221, 226, 250, 255
Canon	214
Citizen	209
Craig	212
Curtis Mathes	214, 259
Daewoo	244, 246, 248, 254
Daytron	236, 246
DBX	202, 218
Emerson	203, 209, 221, 223, 226, 233, 235, 243, 250
Fisher	211, 212, 213, 247
Funai	231
General Electric	214, 216, 220
Goldstar	209
Go Video	256, 262, 263
Hitachi	215, 257
Instant Replay	214, 227
J.C. Penney	214, 215, 218, 227
JVC	202, 224, 225, 258
Kenwood	202
Logik	239
LXI	209, 231
Magnavox	207, 214, 231
Marantz	207, 218
Marta	209
Memorex	206, 212, 214, 231
Mitsubishi	204, 222, 252, 264
Montgomery Ward	208, 214, 216, 219, 231, 249
Multi Tech	239
NEC	202, 218
Orion	250
Panasonic	214, 251, 259
Pentax	215
Philco	207, 214
Philips	207, 214, 227
Pioneer	210, 215
Portland	246
Pro Scan	216, 260
Quasar	214, 259
RCA	215, 216, 220, 227, 240, 242, 249, 260
Realistic	206, 208, 212, 214, 231
Samsung	220, 230, 238
Sansui	239
Sanyo	206, 212, 247
Scott	204, 205, 233, 243
Sears	206, 209,211, 212, 215
Sharp	208, 261
Shintom	239
Signature 2000	208, 214, 216, 219, 231, 249
Sony	217, 232, 237
Sylvania	207, 214, 227
Symphonic	231
Tashiko	209
Tatung	202
Teac	202, 231
Teknika	209, 234
Toshiba	205, 215
XR1000	239
Vector Research	204, 218
Yamaha	202, 218
Zenith	201, 224, 225, 229, 237

CABLE/SATELLITE

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

VIDEO DISC PLAYERS

Pioneer	402, 403
Sanyo	401
Sony	404
Zenith	401

AUDIO CD PLAYERS

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

AUDIO TAPE DECKS

Denon	455
Harman/Kardon	456
JVC	457
Kenwood	450
Onkyo	458
Philips DCC	454
Pioneer	451, 478
Sony	452
Technics	454, 497
Yamaha	453

AUDIO TUNERS AND AMPLIFIERS

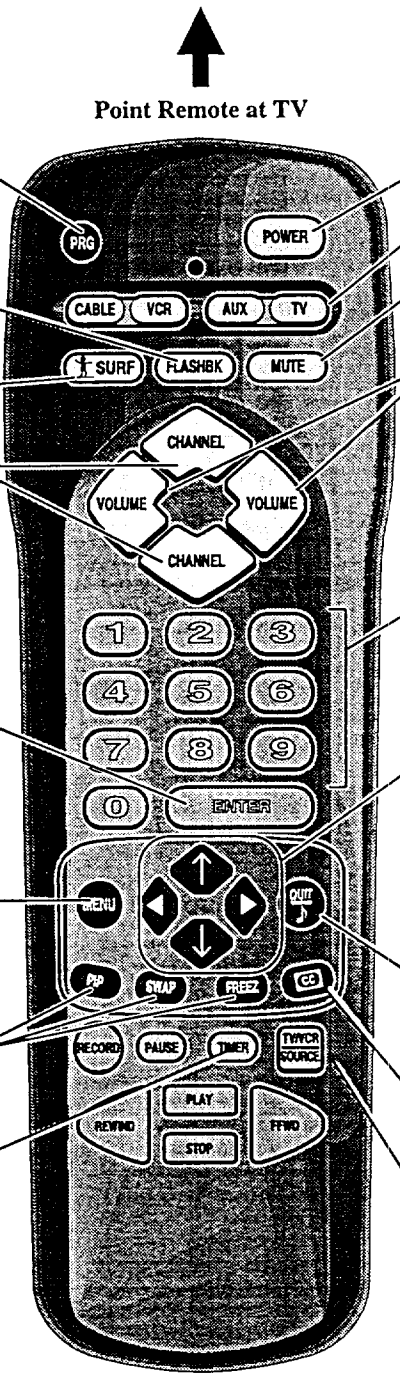
Denon	462, 463
Fisher	464
Goldstar	460
Harman/ Kardon	465
JVC	466
Kenwood	468, 469
Marantz	472, 503
Onkyo	473
Philips	475, 476
Pioneer	477, 478, 479
Radio Shack	487, 488
Realistic	480
Sanyo	481
Scott	482
Sharp	483
Sherwood	487, 488
Sony	489, 490, 491, 492
Soundesign	461, 498, 501, 502
Teac	494, 495
Technics	497
Yamaha	496
Zenith	460, 461, 498, 501, 502

Ref: 124-212-37 and µP 221-952-02A

GET TO KNOW YOUR REMOTE (MBR3457)

TV OPERATIONS

Press **TV** on the remote to select TV operation.



PRG (Program)
Programs your remote to operate other products. See "Programming Your Remote" in this chapter for details.

FLASHBK (Flashback)
Returns to the previous channel.

SURF
Activates the TVs channel "Surf" feature.

CHANNEL (Up or Down)
Selects the next channel.

When the "Surf" option is On, you receive only channels set as "Surf" channels.

ENTER
Shows the Channel/Time display. Press after channel numbers for fast selection.

MENU
Displays on-screen menus for TV mode.

PIP, SWAP, and FREEZ KEYS
See "PIP Operation" section for more details.

TIMER
Displays the **Sleep Timer Menu**. Press repeatedly to set TV shut-off time. Specifies AM or PM when you set the clock or use a timer feature. See "Getting to Know Your TV" section for more details.

POWER
Turns TV On or Off.

TV
Selects TV operation.

MUTE
Makes sound level Soft or turns it off (while picture remains).

VOLUME Left/Right
Changes the TV's sound level.

NUMBERS
Selects channels directly and enters numeric values for some options.

Up/Down and Left/Right Arrows
The Up/Down arrows ***select*** options. The Left/Right arrows ***adjust*** options.

QUIT/♪
Removes on-screen display from view. If no display is on, switches front speaker surround sound On and Off for some TVs.

CC (Closed Captioning)
Displays the closed caption menu.

TV/VCR – SOURCE
Switches between watching TV via the available sources, that is ANTENNA/CABLE, VIDEO IN, etc.

MBR3457 Remote

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

GET TO KNOW YOUR REMOTE (MBR3457)

PRESET CODES FOR ZENITH PRODUCTS

Key Name	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)	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)	TV Volume Up
VOLUME (Left)	TV Volume Dn	TV Volume Dn	TV Volume Dn (See Note)	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 Sources	TV Tuner or 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 >>
				Reference: 124-212-37 and µP 221-952-02A

Note: You can change TV Volume Up/Down to Cable Vol/Mute when you program special code 399 into the remote.

SPECIAL FEATURES

AUX+1, AUX+2, AUX+3

Your remote can control up to seven products. If you've programmed the remote for four products using the **TV, VCR, CABLE,** and **AUX** keys, you can program it for up to three more by using AUX+1, +2, +3.

To Program AUX+1, AUX+2, and AUX+3

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

Hold down AUX and press **1, 2,** or **3** to access **AUX +1, +2,** or **+3** mode.

CABLE BOX VOLUME

Your remote can control cable box volume and muting, if available on your cable box.

To Program the Cable Box Volume

1. Program your cable box code into the **CABLE** or the **AUX** key.
2. Repeat the programming steps, using the same **CABLE** or **AUX** key as above, but enter special code **3–9–9,** followed by **ENTER**.

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

AMPLIFIER VOLUME OVERRIDE

Your remote can override your TV, VCR, or video disc player's volume functions with your amplifier's volume and muting.

To Program the Amplifier Volume Override

1. Program your amplifier code into the **CABLE** or **AUX** key.
2. Select the key on your remote (TV, VCR, etc.) where you want the **amplifier** volume control function to appear. For example, press **TV** if you want to operate your amplifier's volume and mute while the remote is in TV mode.
3. Enter special code **4–9–9,** followed by **ENTER**.

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

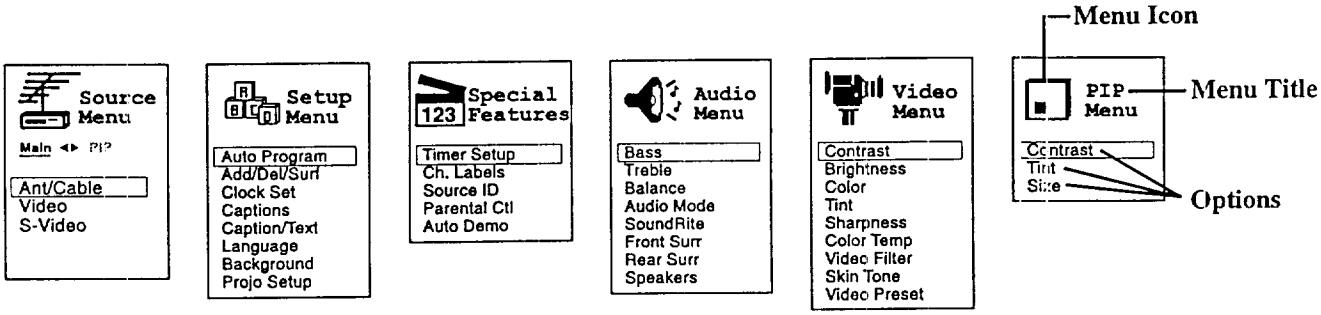
Notes:

- ❑ To restore normal volume and muting control to your remote, reprogram the remote for the product into each key (TV, VCR, etc.) to be restored.
- ❑ CD and tape players will automatically select amplifier volume and mute, if an amplifier code is programmed into the remote.

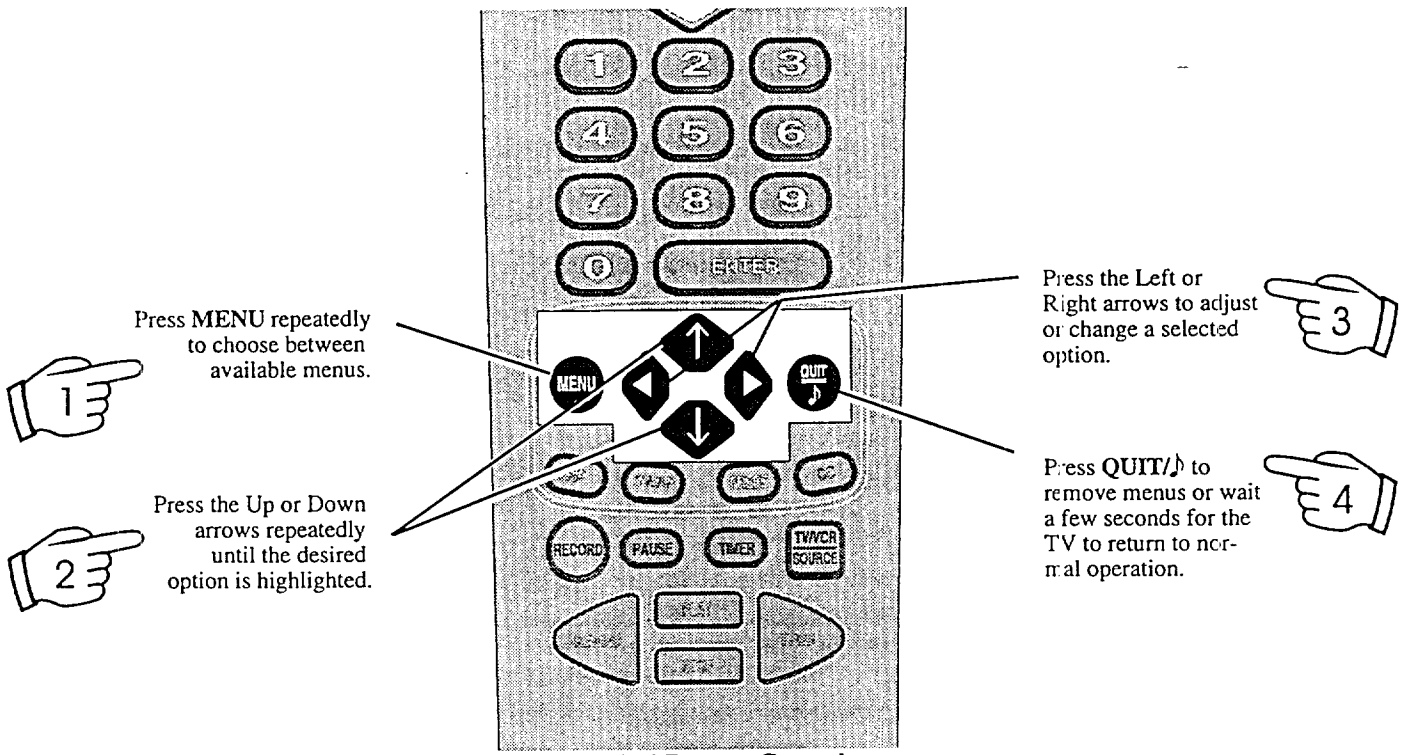
QUICK REFERENCE TO ON-SCREEN MENUS

AVAILABLE MENUS

The features of your TV are controlled through menus. Each menu has an Icon and a list of options.
The menus illustrated are typical though some may vary, like the Source menu which has listings that a user can change.



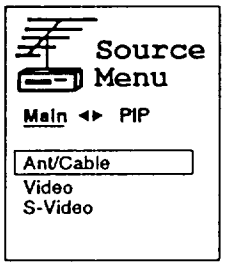
BASIC MENU OPERATION

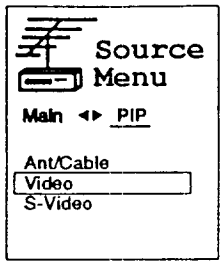


Typical Remote Control
Press TV button to place the remote in TV mode.

SOURCE MENU

Main Source with Ant/Cable highlighted.



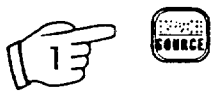


PIP Source with Video highlighted.

Dual-Function Menu. Provides access to Main and PIP Sources. Use Left/Right arrows to switch between Main and PIP source menus. Use TV/VCR SOURCE to select source.

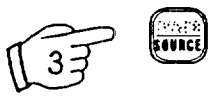
MENU OPERATION

Direct Access



Press **TV/VCR SOURCE** to enter the **Source Menu.**

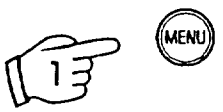
Use the Left/Right arrows to select either **Main** or **PIP.**



Press **TV/VCR SOURCE** repeatedly until the desired option is selected.

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

Indirect Access



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

Use the Left/Right arrows to select either **Main** or **PIP.**

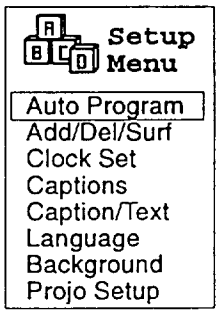
Press Up/Down arrows to choose the desired option.

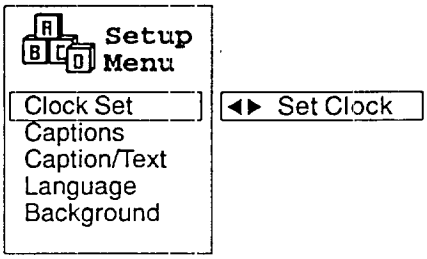
Press **QUIT/♪** or wait a few seconds for the TV to return to normal operation.

Menu Option	Function
Ant/Cable	Selects the antenna or cable-TV source for viewing. You see program material from the source equipment connected to the ANT/CABLE jack. If your source equipment is a VCR or a cable box, put the TV on either channel 3 or 4.
Video	Selects the audio and video from an A/V source (such as a VCR or a video disc player) for viewing. You see program material from the source equipment connected to the VIDEO IN jacks.
S-Video	Selects the audio and video from a Super-VHS video source (such as an S-VHS VCR or a video disc player) for viewing. You see program material from the source equipment connected to the S-VIDEO IN jacks.

Notes: Refer to the "Connections for Your TV" section to make the proper equipment connections to the TV. For information about PIP sources, refer to the "PIP Operation" section.

SETUP MENU

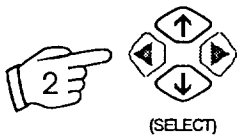




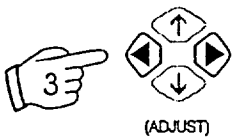
This is the menu you see when Video or S-Video source is chosen.

MENU OPERATION

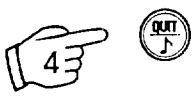
Press **MENU** repeatedly until the **Setup Menu** appears.



Press the Up/Down arrows to choose the desired option.



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



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

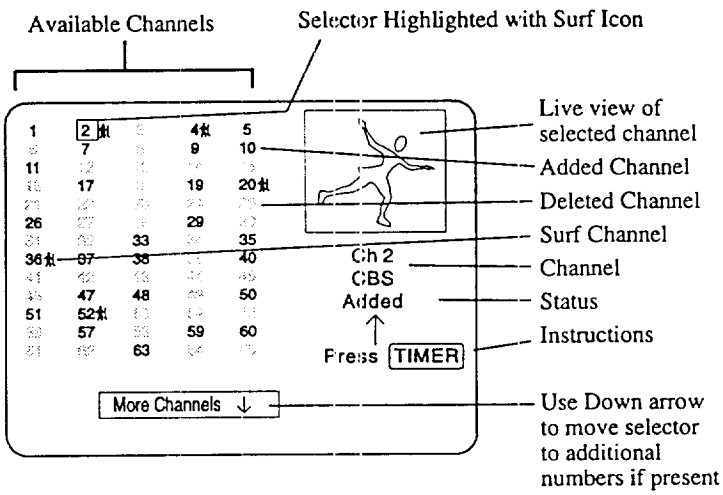
Menu Option	Function
Auto Program	Finds all active channels and stores them in the TV's memory for use by CHANNEL Up/Down. Available channels are: Broadcast Band — VHF 2 to 13, UHF 14 to 69 and Cable-TV Band — 1 to 125. See "QUICK SETUP GUIDE" section for information.
(Channel) Add/Del/Surf	Creates a list of favorite channels selected by using CHANNEL Up/Down. ADD (or DELETE) channels as desired. Creates "Surf" channels of special interest, such as all sports channels. See the information following this chart.
Clock Set	Sets the clock in the TV to the correct time. See "QUICK SETUP GUIDE" section for information.
Captions	Turns Caption/Text On or Off. Options are: On, Off, or Captions When Muted. See the information following this chart.
Caption/Text	Select from the options available when Captions (above) is turned On. Displays closed captioning or informational text when available on the selected channel. Options are: Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, or Text 4. 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 English, Spanish, or French for on-screen menus. See "QUICK SETUP GUIDE" section for information.
Background	Adds (ON) or removes (OFF) a background behind the on-screen menus.
Projo Setup	Converges (aligns) the blue and red CRT beams. See "QUICK SETUP GUIDE" section for information.

continued on next page

USING (CHANNEL) ADD/DEL/SURF

Add/Delete and "Surf" Channels to Scan

1. Use the Up/Down arrows to highlight Add/Del/Surf in the **Setup Menu**.
2. Press Left/Right arrows to view the Add/Del/Surf display.
3. Use the Left/Right/Up/Down arrows to move channel selector to the channel being added/deleted or included in Surf Channel Scan.
4. Press **TIMER** repeatedly to select Add, Delete, or Surf:
   Add = Adds channel to scan when Channel Up/Down arrow is pressed.
   Delete = Channel will not be included in scan when Channel Up/Down arrow is pressed.
   Surf = Channel will be added to Surf Channel scan when Surf is active and Channel Up/Down arrow is pressed.
   Repeat Steps 3 — 4 to add, delete, or include additional channels to Surf Channel Scan.
5. Press **QUIT/♪** to remove the menu or wait a few seconds for the TV to return to normal operation.



Notes:

- ❑ Add/Del/Surf can only be used with ANT/CABLE Source.
- ❑ Surf Scan channel numbers are shown with the Surf Icon on the Add/Del/Surf menu.
- ❑ The audio of deleted channels is muted.
- ❑ Added/deleted or Surf channel status can be changed at any time.

TURNING CAPTIONS ON AND OFF

Turns Caption/Text Feature On and Off

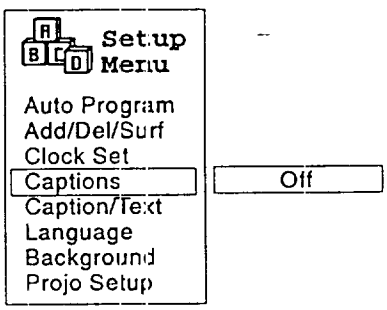
1. In the **Setup Menu**, use the Up/Down arrows to highlight Captions.
2. Use the Left/Right arrows to select: Off, On, or Captions When Muted.
3. Press **QUIT/♪** to remove the menu or wait a few seconds for the TV to return to normal operation.

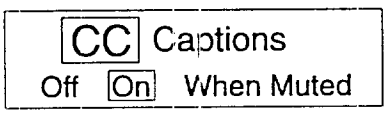
Turns Caption/Text Feature On and Off with CC Key

1. Press **TV**, then press **CC** key on remote.
2. Press **CC** repeatedly to cycle through the options: Off, On, or Captions When Muted.
3. Press **QUIT/♪** to remove the menu or wait a few seconds for the TV to return to normal operation.

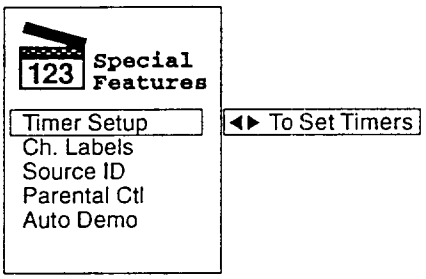
Notes: If you select Captions When Muted, closed captions will appear when the audio is muted.

Captions will not appear with programs which do not transmit a captions signal.





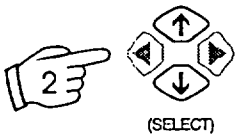
SPECIAL FEATURES



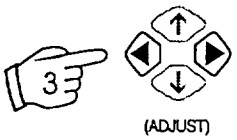
Note: All adjustments on the Audio Menu are optional. You do not have to adjust these features in order to use your TV.

MENU OPERATION

Press **MENU** repeatedly until the **Special Features** menu is shown.



Press the Up/Down arrows to choose the desired option.



Use the Left/Right arrows to adjust the selected option.

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

Menu Option	Function
Timer Setup	Sets the TV's Sleep Timer and On/Off Timer features. See the information following this chart.
Ch (Channel) Labels	Assigns a network/station label, name, or call letters to specified channels. For example, if you choose the label "ABC" for channel 7, then "ABC" will appear in the Channel/Time display whenever channel 7 is selected. More information follows.
Source ID	Assigns a descriptive "name" to the input sources. For example, if the Video source is named VCR, "VCR" will now appear in the **Source Menu** as a reminder that your VCR is connected to the VIDEO IN jacks. You may also edit your own custom source ID label.
Parental Ctl (Control)	Controls the programming in your broadcast area. You can use Parental Control to block out particular channels or the program from a VCR. More information follows.
Auto Demo	Demonstrates on-screen menus and features available on this TV. Refer to the section "QUICK SETUP GUIDE."

continued on next page

SPECIAL FEATURES

TIMER SETUP: Sleep Timer

The **Sleep Timer** programs the TV to turn off after a period from 15 minutes up to 4 hours. **The time on the TV's clock must be set before you can use the Sleep Timer.**

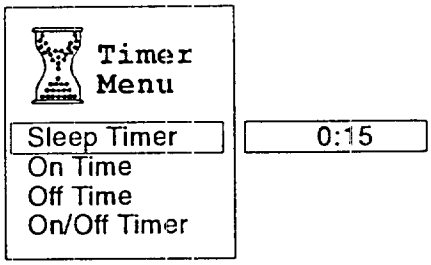
From Special Features Menu

1. Use the Up/Down arrows to highlight Timer Setup.
2. Press Left/Right arrows to view the **Timer Menu**.
3. Use the Up/Down arrows to highlight Sleep Timer.
4. Press the Left/Right arrows repeatedly to set the period of time the TV will remain On.
5. Press **QUIT/♪** to remove the menu or wait a few seconds for the TV to return to normal operation.

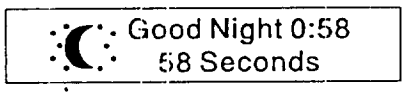
Direct Access

1. With no menus showing on the TV, press **TIMER** on your remote to directly access the **Sleep Timer**.
2. Press **TIMER** repeatedly to set the period of time the TV will remain on.

You can cancel the Sleep Timer by:
Turning off the TV or pressing **TIMER** repeatedly until Off is showing.



Sleep Timer Set to Turn TV Off in 15 Minutes



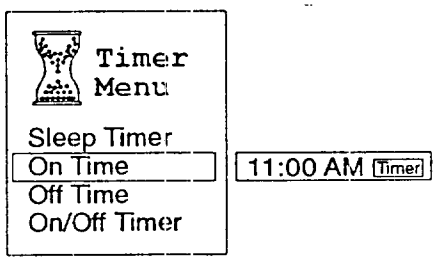
"Good Night" Display Appears 60 Seconds Before Shut-Off

TIMER SETUP: On/Off Timer

The **On/Off Timer** programs the TV to turn on at a specific time, then turn off at another time. **The time on the TV's clock must be set before you can use the On/Off Timer.**

Set On/Off Timer

1. Use the Up/Down arrows to highlight Timer Setup.
2. Press Left/Right arrows to access the **Timer Menu**.
3. Use the Up/Down arrows to highlight On Time and use the numbers on your remote to enter a time for the TV to turn On. Press **TIMER** on the remote to select AM or PM. (You can also use the Left/Right arrows to advance the time.)
4. Use the Up/Down arrows to highlight Off Time and use the numbered buttons on your remote to enter a time for the TV to turn Off. Press **TIMER** on the remote to select AM or PM. (You can also use the Left/Right arrows to advance the time.)
5. Use the Up/Down arrows to highlight On/Off Timer and use the Left/Right arrows to turn timer On (or Off).
6. Press **QUIT/♪** to remove the menu or wait a few seconds for the TV to return to normal operation.



On/Off Timer Set to Turn TV On at 11:00 AM

Note: To use the On/Off Timer, you must specify an Off time.

SPECIAL FEATURES

USING CHANNEL LABELS

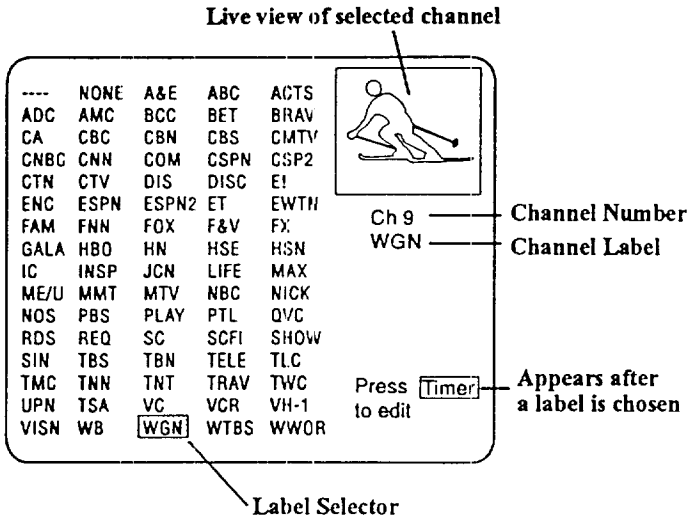
This feature is not practical if the input source is from a cable box, because the only channel you would receive is the cable box output channel (usually Ch. 3 or Ch. 4).

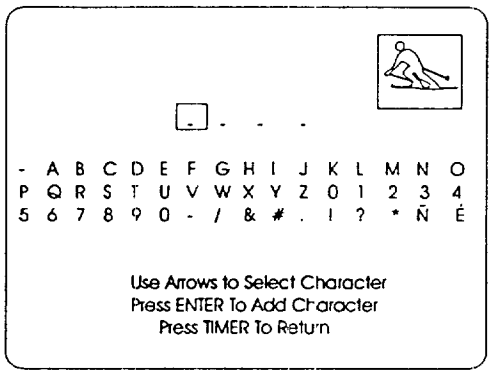
Assign Labels to Channels

1. From the **Special Features** menu, press the Up/Down arrows to highlight Ch. (Channel) Labels.
2. Press the Left/Right arrows to view the channel label display.
3. Select a channel by using **CHANNEL** Up/Down arrows or enter channel number with numbered keys.
4. Use the Left/Right/Up/Down arrows to select appropriate label to add to the channel number.
5. To create a custom label, press **TIMER** to access the custom labels display. Follow on-screen instructions. Use Up/Down/Left/Right arrows to select each character, followed by **ENTER** to place that character in the customized channel label. Press **TIMER** to exit and return to Ch. Labels display.
6. Repeat steps 3 through 5 for each channel.
7. Press QUIT/♪ to remove the menu or wait a few seconds for the TV to return to normal operation.

Notes:

- Ch. Labels can only be used with ANT/CABLE 1 or 2 Source. Select - - - - (dashes) for no label.
- Choose"NONE" if you want to block the labels that some TV stations provide.
- A channel label that you select will override a label provided by some TV stations.





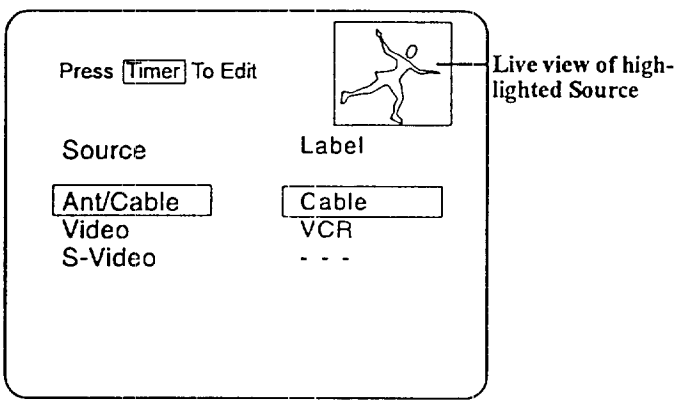
USING SOURCE ID

Assign Identifying Names To Your Sources

1. From the **Special Features** menu, press the Up/Down arrows to highlight Source ID.
2. Press the Left/Right arrows to view the Source ID screen.
3. Press the Up/Down arrows to highlight a Source.
4. Press the Left/Right arrows repeatedly to choose a label for the chosen Source.
5. Press QUIT/♪ to remove the menu or wait a few seconds for the TV to return to normal operation.

- To edit and make a custom label, (1) Highlight any label (except "Disabled" or "---") from the display, (2) Press TIMER, (3) Use arrows to select a character and then press ENTER to add it (repeat for more characters), (4) Press TIMER for previous menu, press QUIT to clear screen.

Note: If you select "Disabled," the source for which you select it will not appear in the Source Menu.



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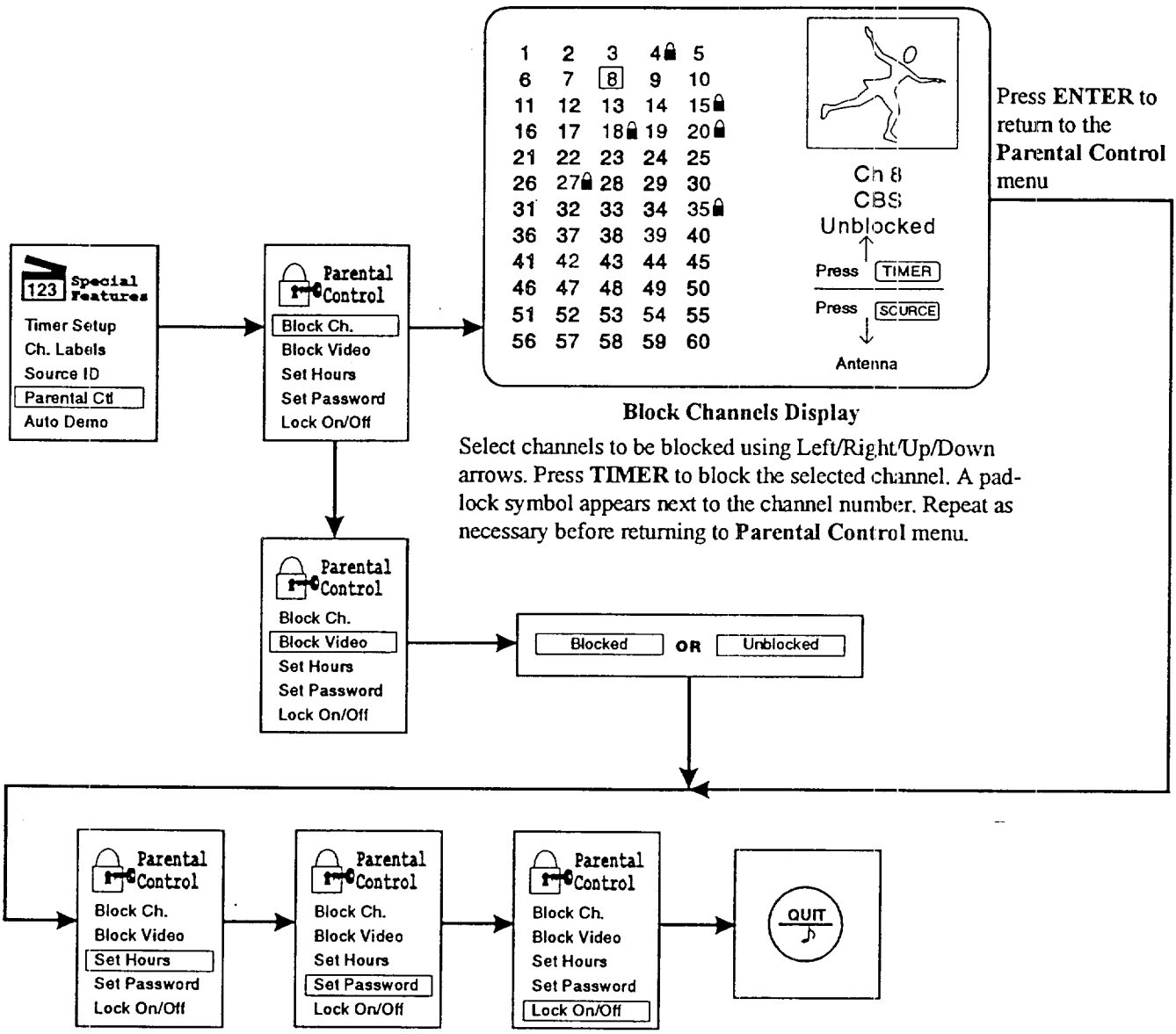
USING PARENTAL CONTROL



Block Channels Display

Select channels to be blocked using Left/Right/Up/Down arrows. Press **TIMER** to block the selected channel. A padlock symbol appears next to the channel number. Repeat as necessary before returning to **Parental Control** menu.

Steps Required to Use Parental Control

Block Ch. (Channel)

Blocks video and audio for selected channels. A padlock symbol appears next to the blocked channel numbers. The grayed numbers are channels not included in your favorite channels list. The solid numbers are channel numbers included in your favorite channels.

Block Video

Blocks the image for all A/V (Audio/Video) and S-Video sources.

Set Hours

Specifies the number of hours **Parental Control** will be in effect.

Set Password

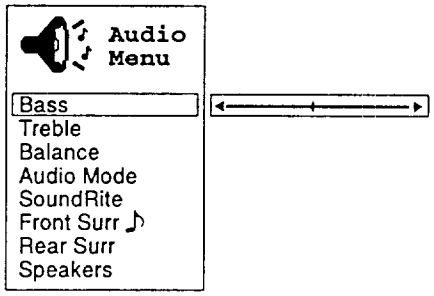
Sets your **Parental Control** password. A password can be any four digits you choose.

Note: Remember your password or you will have to wait until the specified time has elapsed before you can see the channels and/or video sources you have blocked.

Lock On/Off

Turns the **Parental Control** feature On or Off. When On, the blocked channels or video sources cannot be viewed unless you use the password to unlock the TV or the Set Hours time period elapses.

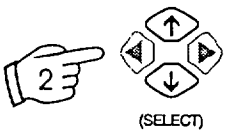
AUDIO MENU



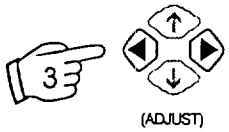
All adjustments on the Audio Menu are optional. You do not have to adjust these features in order to use your TV.

Menu Operation

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



Press the Up/Down arrows until the desired option is highlighted.

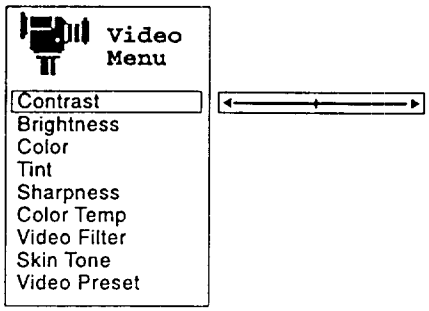


Press the Left/Right arrows to adjust the selected option.

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

Menu Option	Function	
Bass	Adjusts the low-frequency sound level.	
Treble	Adjusts the high-frequency sound level.	
Balance	Adjusts sound between the two speakers.	
Audio Mode (SAP is not an option for the Video or S-Video sources.)	Selects STEREO, MONO, or 2ND AUDIO/SAP operation.	
	Stereo:	Directs sound to the Left and Right speakers. Stereo is the recommended choice: The TV switches automatically between the STEREO and MONO modes depending on the type of signal received.
	Mono:	Directs the same sound to both Left and Right speakers, even if the program received is in stereo.
	2nd Audio/SAP:	Directs the sound for the Second Audio Program (usually a second language) to both the Left and Right speakers. SAP sound is always monaural. When the SAP broadcast ends, the TV changes automatically to the type of signal received, STEREO or MONO. The TV changes back to 2ND AUDIO/SAP when the SAP broadcast resumes.
SoundRite	Adjusts sound to the same volume as the previously selected channel.	
Front Surr	Turns the Front Surround effect On and Off. Front Surround is only available while receiving a surround-encoded program. With no menus on-screen, press **Quit/♪** to turn Surround Sound On and Off.	
Rear Surr	Adjusts the Surround Sound provided to the optional speakers.	
Speakers	Turns internal speakers On and Off. (Off indicated by "EXT Volume" on Volume bar.)	

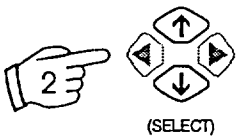
VIDEO MENU



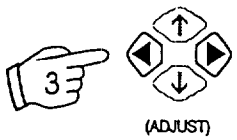
All adjustments on the Video Menu are optional. You do not have to adjust these features in order to use your TV.

MENU OPERATION

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



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

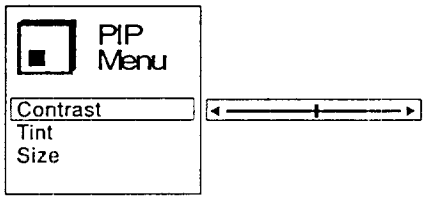


Press the Left/Right arrows to adjust the selected option.

Menu Option	Function
Contrast	Adjusts the picture's overall contrast and color level.
Brightness	Adjusts the picture's brightness level of black areas.
Color	Adjusts the picture's color intensity.
Tint	Adjusts the flesh tones to more green or red.
Sharpness	Adjusts the object edge definition for best picture quality.
Color Temp (Temperature)	Changes the "color temperature" or picture white balance between cooler whites and warmer reds.
Video Filter	Reduces video "noise" or interference in dark picture areas.
Skin Tone	Maintains natural skin tones under changing scene and video source conditions.
Video Preset	Adjusts the picture to various viewing conditions. Options are: Custom = Saves personal preference changes made to the Video Menu and stores them as your Custom setting. Preset = Restores the video characteristics set at the factory. Movie = Delivers clear, cinema-like effects in a home theater setting with dim lighting. Video Game = Tones down bright video game color intensities and graphics for prolonged close-range viewing conditions. Sports = Provides a bright, sharp picture with vivid color and crisp detail. Daylight = Enhances picture contrast in brightly-lit conditions. Weak Signal = Reduces "noise" (snow) from poor quality signal transmission or video tapes.

PIP MENU

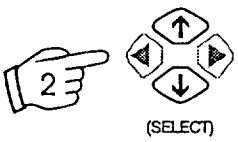
Selecting the PIP Menu does not "activate" PIP. However, a PIP window appears during menu operation to show the effect of any adjustments.



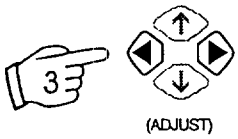
All adjustments on the PIP Menu are optional. You do not have to adjust these features in order to use your TV.

MENU OPERATION

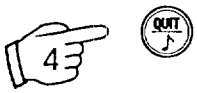
Press MENU repeatedly until the PIP Menu appears.



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



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



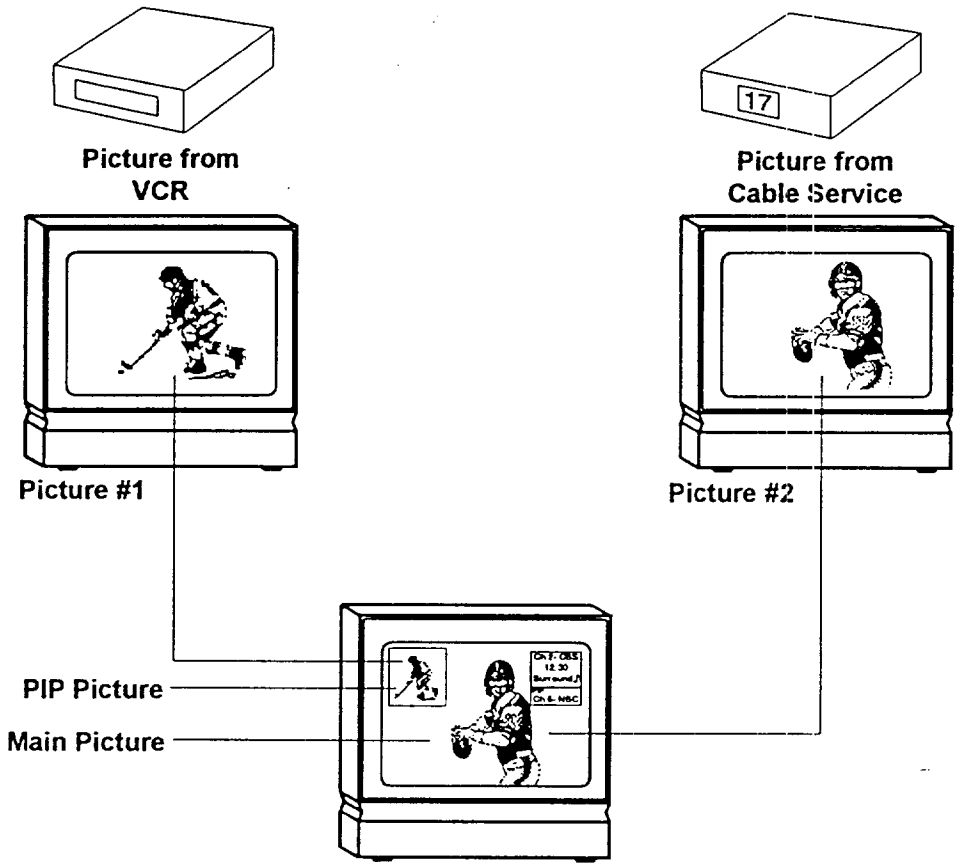
Press QUIT/♪ or wait a few seconds for the TV to return to normal operation.

Menu Option	Function
Contrast	Adjusts the color intensity in the PIP picture.
Tint	Adjusts the flesh tones in the PIP picture to more green or red.
Size	Adjusts the size of the PIP inset between small or large.

PIP (PICTURE-IN-PICTURE) OPERATION

OVERVIEW

The PIP (Picture-in-Picture) feature lets you watch two programs at the same time on the same screen. The pictures visible on the TV screen are determined by the equipment sources connected to the connection center on the back of the TV. You must have two equipment sources (one of which is a VCR or video disc player) to get two different pictures for PIP operation.



ANTENNA OR DIRECT CABLE TO VCR

With your equipment setup in this manner, your TV can:

- ❑ Simultaneously show two different channels: one selected with the TV's tuner and the other with the VCR's tuner.
- ❑ Simultaneously show a video tape playing in the VCR and a channel selected with the TV's tuner.
- ❑ Swap the Main Picture and the PIP Picture.

CABLE BOX AND VCR

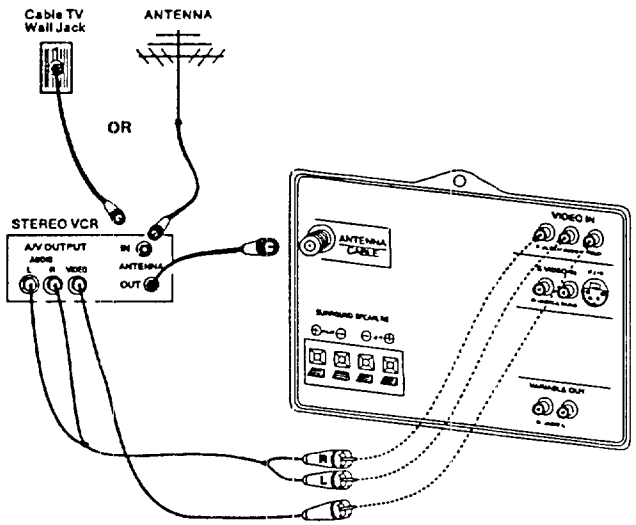
With your equipment setup in this manner, your TV can:

- ❑ Simultaneously show two different channels: one selected with the Cable Box tuner and the other with the VCR's tuner.
- ❑ Simultaneously show a video tape playing in the VCR and a cable channel selected with the Cable Box tuner.
- ❑ Swap the Main Picture and the PIP Picture.

PIP (PICTURE-IN-PICTURE) OPERATION

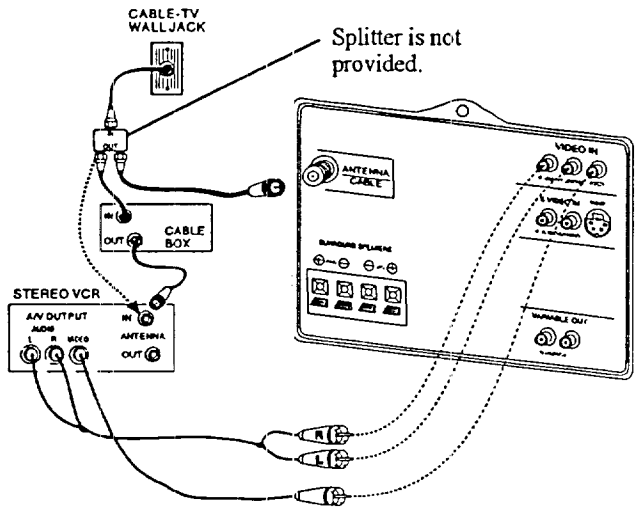
CONNECTIONS FOR USING PIP

PIP OPTIONS USING ANTENNA/DIRECT CABLE AND VCR	
Viewing Two Different Channels	**Viewing a Video Tape and a TV Channel**
1. Set VCR's TV/VCR* switch to TV.	1. Make sure VCR's TV/VCR* switch is set to TV.
2. Press **TV/VCR SOURCE** repeatedly to choose Ant/Cable for the **Main** picture in the **Source Menu**.	2. Press **TV/VCR SOURCE** repeatedly to select Ant/Cable for the **Main** picture in the **Source Menu**.
3. Press Left/Right arrows to select **Source Menu** for the PIP picture.	3. Press Left/Right arrows to select **Source Menu** for the PIP picture.
4. Select Video in the **Source Menu** for the PIP inset; press **ENTER** to exit the **Source Menu**.	4. Select Video for the PIP inset in the **Source Menu**; press **ENTER** to exit the **Source Menu**.
5. Select a channel with the TV's channel selector.	5. Select a channel with the TV's channel selector.
6. Press **PIP** key to activate PIP.	6. Press **PIP** key to activate PIP.
7. Press **VCR** key on the remote to access the VCR mode.	7. Press **VCR** key on the remote to access the VCR mode.
8. Select a PIP channel using the VCR's channel selector.	8. Play a tape in the VCR and view it in the PIP inset.
* May be labeled TV/Video.	



Required Antenna Connection For Use With PIP

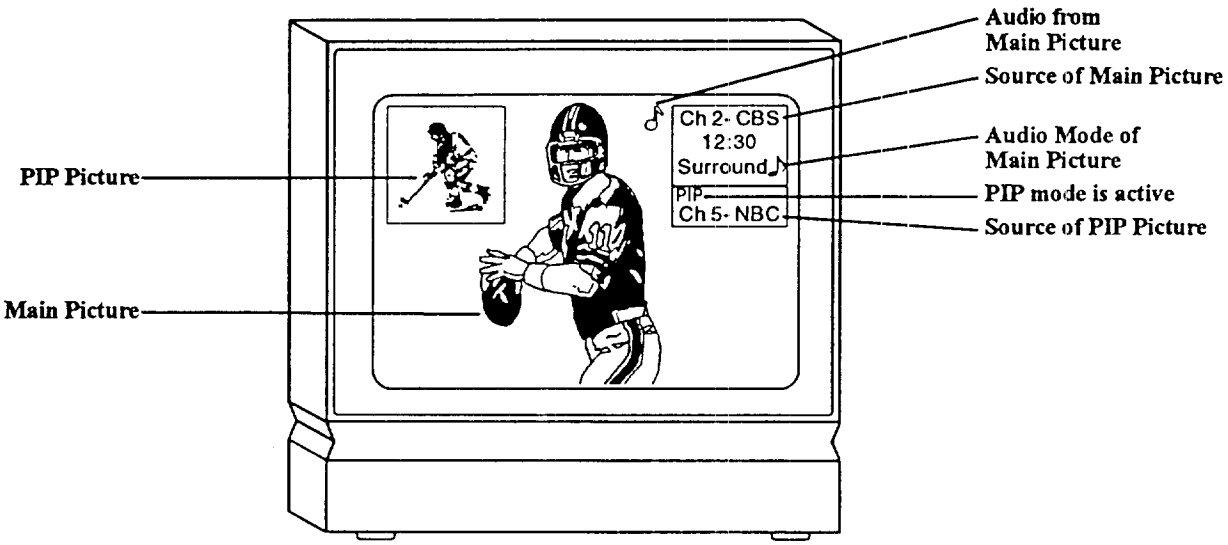
PIP OPTIONS USING CABLE AND VCR	
Viewing Two Different Channels	**Viewing a Video Tape and a Tuned Channel**
1. Press **TV/VCR SOURCE** key to access the **Source Menu**.	1. Press **TV/VCR SOURCE** key to access the **Source Menu**.
2. Press **TV/VCR SOURCE** repeatedly to choose Ant/Cable for the **Main** picture in the **Source Menu**.	2. Press **TV/VCR SOURCE** repeatedly to choose Ant/Cable for the **Main** picture in the **Source Menu**.
3. Press Left/Right arrows to select **Source Menu** for the PIP picture.	3. Press Left/Right arrows to select **Source Menu** for the PIP picture.
4. Select Video for the **PIP** inset in the **Source Menu**; press **ENTER** to exit the **Source Menu**.	4. Select Video for the **PIP** inset in the **Source Menu**; press **ENTER** to exit the **Source Menu**.
5. Select a channel with the TV's channel selector.	5. Select a channel with the TV's channel selector.
6. Press **PIP** key to activate PIP.	6. Press **PIP** key to activate PIP.
7. Press **CABLE** key on remote to access Cable mode.	7. Press **VCR** key to access VCR mode; set VCR's TV/VCR switch to VCR.
8. Select a PIP channel using the cable box.	8. Play a tape in the VCR and view it in the PIP inset.



Required Cable-TV Connection For Use With PIP

PIP (PICTURE-IN-PICTURE) OPERATION

SELECTING MAIN PICTURE SOURCE AND PIP PICTURE SOURCE

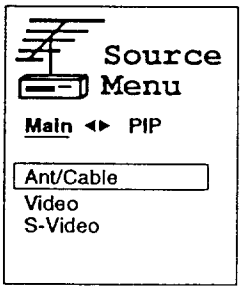


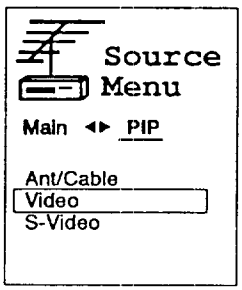
To Turn PIP On Using Universal Remote
1. Point the remote at the TV.
2. Press **TV** key on remote to select TV MODE.
3. Press **PIP** key to see PIP picture.

To Select Main Picture Source
1. Press **SOURCE** on your remote to view the **Source Menu**.
2. Press the Left/Right arrows to select **Main** Source.
3. Press Up/Down arrows repeatedly to select the source equipment you want for the Main picture.
4. Press **QUIT/♪** to remove the menu.

To Select PIP Picture Source
1. Press **SOURCE** on remote to view the **Source Menu**.
2. Press the Left/Right arrows to select **PIP** source column.
3. Press Up/Down arrows repeatedly to select the source equipment you want for the PIP picture.
4. Press **QUIT/♪** to remove the menu.

Available Main Picture Sources



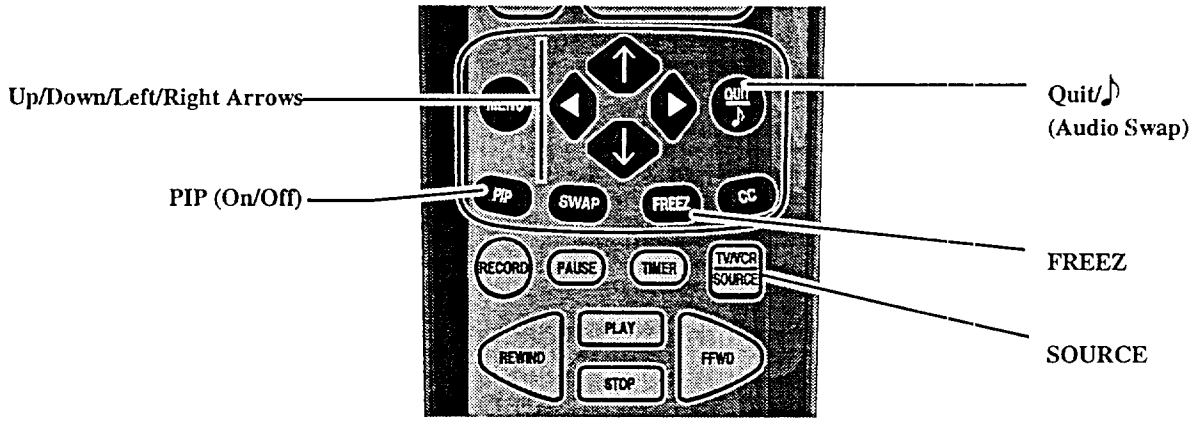


Available PIP Picture Sources

You can choose any source listed for the Main Picture and for PIP Picture, as long as you have equipment connected to the corresponding jacks on the connection center of the TV.

PIP (PICTURE-IN-PICTURE) OPERATION

PIP FEATURES AND OPTIONS USING THE UNIVERSAL REMOTE



PIP (On/Off)

Press PIP to turn the Picture-In-Picture feature On and Off.

PIP Freeze

Use to stop action (freeze) the image in the PIP picture. Press FREEZ again to return to live action.

Note: If PIP is not turned on, this key freezes the Main Picture in the PIP inset and turns PIP on.

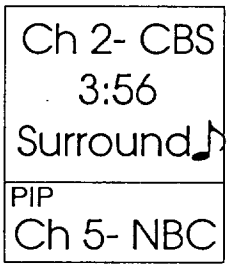
Source

Press to select sources.

Audio Swap

Press QUIT/♪ to switch audio from the Main Picture source to the PIP source, when no other menus are showing.

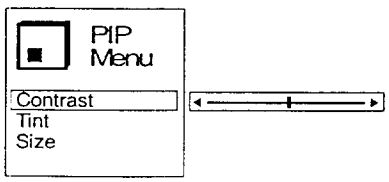
Note: Audio is being heard from the source that has the musical note appearing next to it, in this case PIP.



PIP channel display appears when PIP is turned On.

PIP Menu

The **PIP Menu** changes the settings for the PIP picture. Press MENU repeatedly until the **PIP Menu** appears. Press the Up/Down arrows to choose an option. Press the Left/Right arrows to adjust that option. See "PIP Menu" section for information.



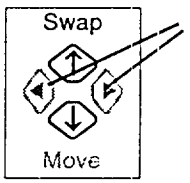
The PIP Menu customizes settings for the PIP picture.

PIP Active Arrow Keypad

When you press **PIP** on the remote, a help menu appears. This is an on-screen reference defining which arrows perform which function.

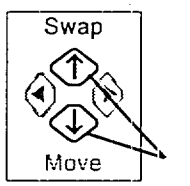
PIP Move

Press the Left/Right arrows repeatedly to move the PIP Inset to any of the four corners of the TV screen.



PIP Swap

Press the Up/Down arrows to swap the picture in the Main Picture screen with the picture from the PIP inset window. Press again to restore.



MAINTENANCE AND TROUBLESHOOTING

CARING FOR YOUR PROJECTION 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 may 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. 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.

Screen Protector And Projection Screen Cleaning

Use a soft cloth moistened with warm water and rub lightly in the soiled areas of the screen. DO NOT USE A TISSUE OR PAPER TOWEL, AS THESE MAY DAMAGE SURFACE. Wipe only in the vertical (up/down) direction (along the grooves). If there is a dirt buildup, a mild soap solution may be used. Use dry soft cloth to dry the screen. Avoid scratching or damaging the screen surface.

NOTE: The TV screen is easily damaged. Avoid accidental contact with the screen.

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 may have to reset the clock to the current time.

TV PICTURE INTERFERENCE

Your TV picture may be affected by interference such as:

Speckled or Streaked Picture

Can be caused by nearby automobile ignition, electrical appliances, etc. 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 improper antenna installation.

Ghosts or Reflections

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

Radio Signal

Caused by police, amateur, or CB radio transmitters.

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

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 that doesn't 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.

RECORD MODEL NUMBER OF YOUR TV

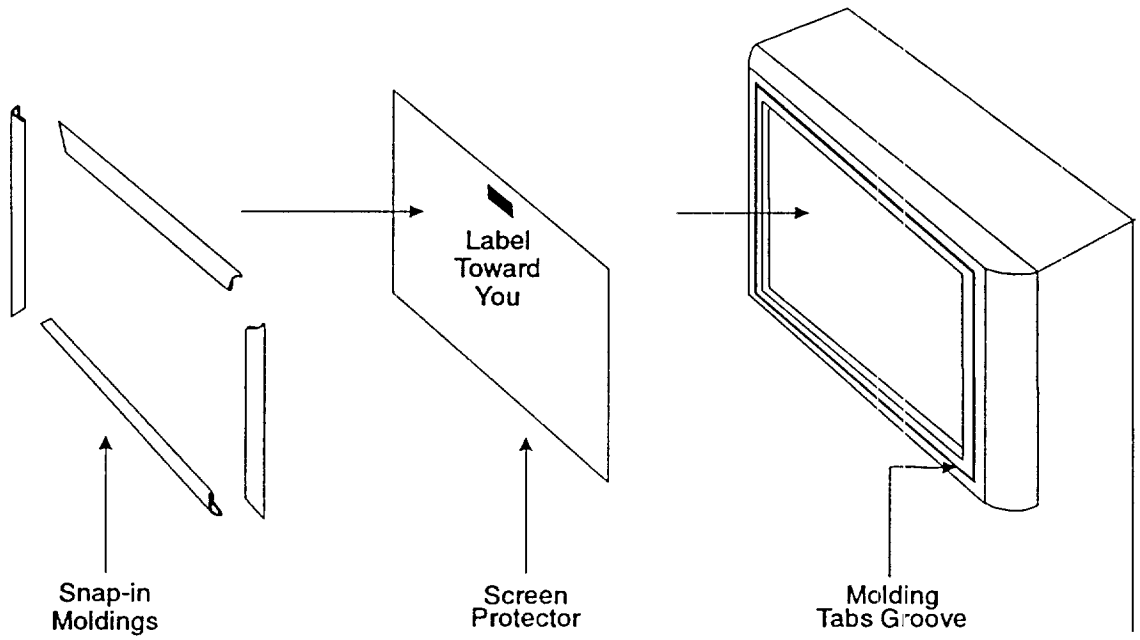
The model and serial numbers of your new TV are located on the back of the TV cabinet. For your future convenience and protection, we suggest that you record these numbers here:

Model No. _____

Serial No. _____

SCREEN PROTECTOR

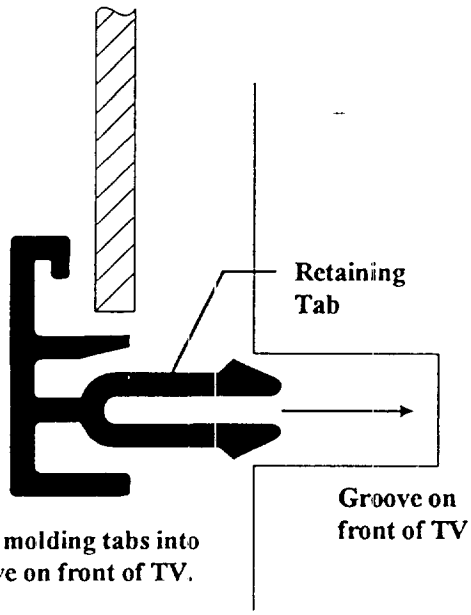
Some projection TVs are equipped with a screen protector. If it is necessary to remove or adjust the protector, "peel" the moldings away from the TV to separate them from the tabs groove and carefully lift out the screen protector. Be careful not to damage the moldings.



Step 1. Install one of the long snap-in moldings into the groove at the bottom of the TV and push the molding tabs into the groove as shown at the right. Place screen protector into the slot between the molding and the TV screen with the label on the screen protector facing you. Have someone hold the screen protector in position over the TV screen.

Step 2. Carefully shift the screen protector up, down, left, or right as needed.

Be extra careful not to scratch either the TV screen or the screen protector surfaces during installation.



Push molding tabs into groove on front of TV.

Step 3. Place the remaining three snap-in moldings in position on the top (remaining long piece), left, and right sides of the TV (shorter pieces). Press firmly enough on each snap-in molding to force the retainer tabs into the groove as shown above; each tab must be fully inserted. After installation, remove the label from the front of the screen protector, if desired.

Clean screen protector as described on previous page.

MAINTENANCE AND TROUBLESHOOTING

BEFORE CALLING FOR SERVICE

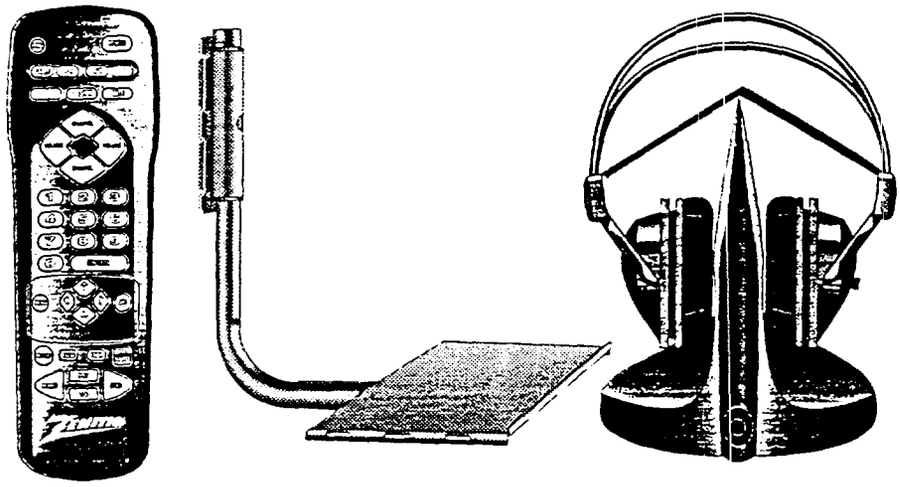
Check these items and see if you can correct the trouble by changing the adjustment of a control or a menu setting. By making these simple checks before calling for service, you may save time and money.

Problem	Try This
Picture OK. Poor sound.	Re-orient antenna. Try another channel -- possible station trouble. Adjust AUDIO MENU options. Check Mute feature? Check for local interference. Is antenna/cable connection loose?
Sound OK. Poor picture.	Re-orient antenna. Try another channel — possible station trouble. Adjust VIDEO MENU 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? Trouble with cable-TV system? Check auxiliary audio/video equipment. Check channel selection. Is the channel blocked by PARENTAL CONTROL?
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.
No sound or sound is low.	VOLUME (VOL) setting may be too low. Check MUTE key operation on remote control. Are Speakers set to Off?
Cannot select certain channels or other channels.	Channels may be skipped in CH. ADD/DEL/SURF option of SETUP MENU. Use AUTO PROGRAM a second time. Is TV in Surf Channel Scan mode with only one channel specified as a Surf channel?
No closed captions	Are captions available? Is CAPTION 1, CAPTION 2, CAPTION 3 or CAPTION 4 selected using the CAPTIONS option on the SETUP MENU?
Black or blue box covers half of screen.	Is text information available? Is TEXT 1, TEXT 2, TEXT 3 or TEXT 4 selected in the CAPTIONS option of the SETUP MENU.
No picture or sound when VIDEO or S-VIDEO source is selected.	Is audio/video source hooked up properly? Are all wires connected to VIDEO IN or S-VIDEO IN jacks on TV/Source connection center?
No stereo sound or weak stereo sound when using a stereo VCR.	Check AUDIO mode. Was stereo sound present before selecting VIDEO or S-VIDEO source?
PIP inset frame is black or lacks contrast when selecting VIDEO for PIP inset.	Adjust PIP COLOR AND CONTRAST settings in PIP MENU. Are all wires connected to VIDEO IN jacks on TV/Source connection center?
PIP inset frame is "snowy" when using ANT/ CABLE for PIP and S-VIDEO for main picture.	Is TV/VCR switch on the VCR (or remote) in the TV position?
No picture when using VIDEO for PIP inset source and ANT/CABLE for main picture.	Is TV/VCR switch on the VCR (or remote) in the TV position?
Remote control does not work.	Are batteries okay? Does Indicator light turn On? Is TV turned On? Is remote in TV mode?

Notes:

- ❑ If your TV fails to respond to the VIDEO PRESET 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 may have to reset the clock to the current time.
- ❑ Unplugging the TV does not deactivate the Parental Control.

Recommended Audio/Video Accessories



Broken or lost remote? For an exact replacement remote control for your new Zenith television, see your local Zenith dealer or order direct by calling 1.800.255.6790. To assure the correct remote for your new Zenith TV, please have your television's model number ready when you call.

ONLY $39.95
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TV wall mounts
- Easy to install
- Safe and strong
- 5-year warranty
- Made in the U.S.A.
- Space-saving
- UL listed
- 10-degree tilt

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$69.95

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ONLY
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These completely cordless, lightweight headphones allow you to enjoy a private listening experience without disturbing others. The infrared technology delivers a virtually interference free signal up to 30 feet! Works with most TVs, VCRs or audio devices - with a fixed audio output jack. Comes with microphone hookup option for universal compatibility. Soft cushioned ear pads for comfortable use.

ZEN 911
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Residents add sales tax—
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Use Your Visa or MasterCard to Order Call Toll-Free 1.800.255.6790

ZENITH®

PLEASE ALLOW 2-3 WEEKS FOR DELIVERY

59670 Zenith

REPLACEMENT PRODUCT REGISTRATION CARD

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

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

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

To participate, simply complete and return the Product Registration Card today.

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

Product Card lost or misplaced?

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

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

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

Zenith Product Registration Card

H5Z01-01

① Please Print Clearly or Type

1. ☐ Mr. 2. ☐ Mrs. 3. ☐ Ms. 4. ☐ Miss

② Area Code Telephone

First Name Initial Last Name

Street Apt. No.

City

State Zip Code

③ Date of Purchase

Mo. Day Yr.

MODEL NUMBER

Copy Numbers Here From Label on Set

SERIAL NUMBER

Please record the model number and serial number from the sticker on the back of your set.

PHOTOCOPY AND CUT ALONG DASHED LINE

AVISO PARA NUESTROS CLIENTES DE HABLA HISPANA

Zenith publica muchos de sus manuales de instrucciones en idioma español. Si le interesa pedir la versión en español de este manual, llene el formulario provisto a continuación, fotocópielo y envíelo a la dirección indicada.

No todos los manuales de instrucciones están disponibles en español. Sin embargo, podemos proporcionarle el manual que corresponde a un modelo similar a este, en el cual se describen casi todas las características del producto que usted utiliza.

El manual en español es gratis.

Instrucciones:

1. Llene el formulario proporcionado a continuación con la información solicitada.
2. Haga una fotocopia del formulario de pedido y envíela a:

Service Literature Department
Zenith Video Tech Corporation
1000 Milwaukee Avenue
Glenview, IL 60025-2493

Fotocopie la página y corte la línea punteado

Formulario de pedido de su manual de instrucciones

206-3229
Z-GZ PRO

(Este formulario de pedido es solo válido para el producto descrito en este manual

Número de modelo: _____ (lo encontrará en la parte posterior del aparato)

Número de serial: _____ (lo encontrará en la parte posterior del aparato)

Dia de Compra: ___/___/___
diá mes año

Nombre _____

Dirección _____ Apartamento _____

Ciudad _____ Estado_____Código postal _____

País _____

ZENITH QUESTIONNAIRE

HELP US HELP YOU

We want you to get the most out of your new Zenith product. Thanks for taking a few moments to complete the following questionnaire; we value your input!

		Agree				Disagree
1.	The operating guide is well-organized.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
2.	I can find the information I want.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
3.	The text is clearly written.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
4.	This operating guide is written in language that I understand.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
5.	The examples are clear and useful.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
6.	Diagrams and illustrations are easy to follow.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
7.	The quality of this operating guide would influence whether I'd buy a Zenith product again.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
8.	I would recommend this product based on the quality of the operating guide.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
9.	Instructions are clear and helpful.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1
10.	This operating guide meets my expectations.	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1

Tear along perforation.

Z-GZLEV1 206-3212-O

COMMENTS

Your comments help us determine if we should give greater emphasis to certain topics in the operating guide.

Fold Along This Line Second.

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IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL
FIRST-CLASS MAIL PERMIT NO. 203 GLENVIEW, IL
POSTAGE WILL BE PAID BY ADDRESSEE

ZENITH ELECTRONICS CORPORATION
ATTN: TECHNICAL PUBLICATIONS
1000 MILWAUKEE AVE.
GLENVIEW, IL 60025-9852

Fold Along This Line First.

Name _____ _____
First Last

Street _____

City _____

State _____ Zip Code _____

Daytime Telephone _____ - _____ - _____

Date Questionnaire Completed _____

YOUR ZENITH TV WARRANTY

PROJECTION COLOR TV

Welcome into the Zenith family! We believe that you will be pleased with your new Zenith Projection TV. Please read this warranty carefully. It is a "ONE YEAR FULL WARRANTY," plus a limited second year picture tube 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 and Parts — During a period of one year from effective warranty date, Zenith will supply new or remanufactured replacement picture tubes or other parts, and will pay for service labor by a Zenith authorized service center, when such parts or service labor are needed to repair the product as a result of manufacturing defects. Further, Zenith will supply a new or remanufactured replacement for any picture tube which fails during the second year after effective warranty date because of a manufacturing defect. Replacement parts are warranted for the remaining portion of the original warranty period. The above service labor warranty applies only in the U.S.A.

On-Site Service — Warranty service is provided where the Projection TV is installed.

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.**" You might 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.

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 Owner Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service — For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Customer Response Center. You must provide the model number, serial number and date of purchase or date of original installation.

Zenith Electronics Corporation
Customer Service Department
1000 Milwaukee Avenue
Glenview, IL 60025-2493
Telephone: (708) 391-8752
Mon-Fri, 7:00 a.m. - 8:00 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. For additional information, call (847) 391-8757.