Picture in Picture (PIP)
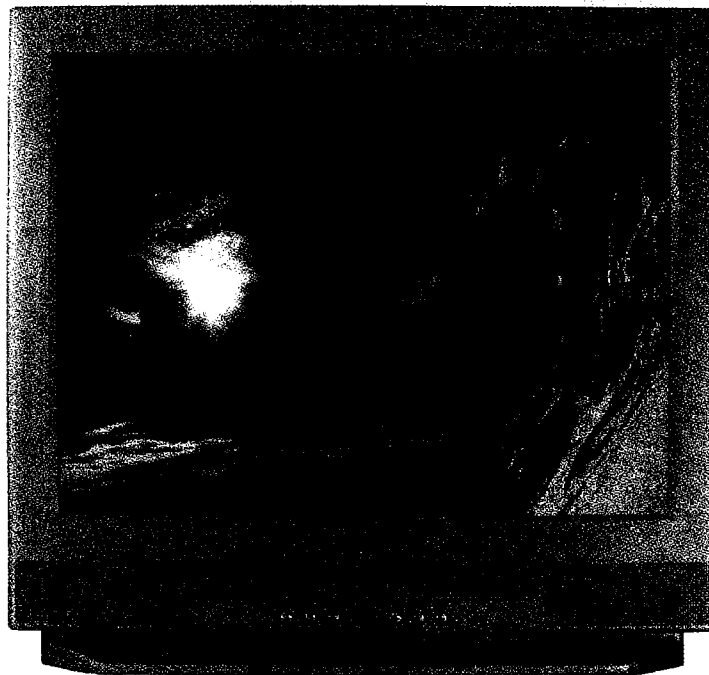
Watch two channels at once on the same TV.
Imposes a full color "inset picture" in a corner of
the main picture.

Digital Comb Filter

Electronically "combs" the incoming signal. Digital
circuitry more accurately controls and separates
color (chroma) and picture (luminance) information
to increase picture sharpness.

Color Temperature Control

Using the universal remote control, users can
select between "warm" or "cool" presets to control
the ambiance and mood of the picture on the screen.

SEQ™ Front Surround

Electronically expands the sound listening field,
making the stereo audio seem even more separated.
Audio is more spacious and three dimensional with
increased clarity at any listening level. SEQ simulates
the surround experience by adding dramatic impact to
stereo programs without the use of additional surround
sound speakers.

1.7R CRT

A flatter faceplate on the CRT reduces room light
reflection for premium color and contrast with
increased viewing angle.

zenith

DIGITIZE THE EXPERIENCE.™

Tri-Lingual Menu System Users can set up and operate their TV with English, Spanish, or French on-screen menus.

MTS Stereo with SAP Multi-Channel Television Sound, or MTS, produces crisp, clear stereo broadcasts. Second Audio Programming, or SAP, is a separate audio signal that allows networks to broadcast audio in different languages.

Parental Control with V-Chip Programmable feature that uses the US standard content advisory system to exclude viewing of specific programs or program types.

Black Level Expansion/White Level Compression Automatically adjusts the contrast ratio between black and white levels to produce blacker blacks, whiter whites and extraordinarily sharp edges without loss of picture detail or subtle shading (NTSC only).

Auto Programming Automatically locks all active stations into channel scan.

Video Enhancements
Horizontal Lines Resolution . . . . 530 Lines (S-Video)
Digital Comb Filter . . . . 2 Line
Dark Tint Tube . . . . Yes
Color Temperature . . . . Warm/Cool
Black Level Exp./White Level Compression . . . . Yes

Audio Enhancements
SEQ™ Front Surround Sound . . . . Yes
Mono/Stereo/MTS/SAP . . . . MTS/SAP
Bass/Treble/Balance . . . . Yes
Total Audio (Watts) 6

Special Features
Tri-lingual Menus . . . . English, Spanish, French
Picture-in-Picture (PIP) . . . . Yes
EZ Tag Menu System . . . . Yes
Auto Programming . . . . Yes
Channel Labels . . . . Yes
Parental Control w/V-Chip . . . . Yes
Surf's Up Favorite Channel Selection . . . . Yes
Sleep/On/Off Timer . . . . Yes
Flashback . . . . Yes
XDS . . . . Level 2*
CC when Mute/2 Level Mute . . . . Yes
On/Off Speaker Selection . . . . Yes
Time/Channel Display . . . . Yes

Service/Limited Warranty
Warranty: Parts/CRT/Labor . . . . 1 Year/2 Years/90 Days

Jack Pack
RF Input 1
S-Video In . . . . 1 Front, 1 Rear
A/V In . . . . 1 Front, 1 Rear
Variable Audio Out 1
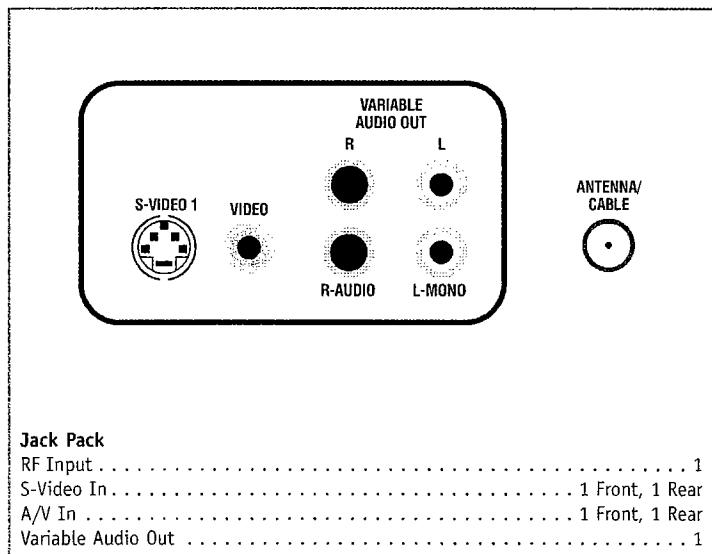
General Information
Remote . . . . Universal
Finish . . . . Silver Metallic
Cabinet Dimensions:
  Width x Height x Depth . . . . 25.43" x 23.89" x 19.47"
  Weight . . . . 73 lbs.
Dimensions with Packaging:
  Width x Height x Depth . . . . 28.06" x 27.18" x 22.12"
  Shipping Weight . . . . 85 lbs.
UPC Code 04464200572 6

Level 2: Auto Channel Labels, Auto Program Titles, Elapsed Time, Program Length, Auto Clock Set.
Dimensions and weights are approximate. Design and specifications subject to change without notice.

SEQ™ is a registered trademark of Zenith Electronics Corporation.

zenith Z

DIGITIZE THE EXPERIENCE.™

Operating Guide | Warranty

Machine Numbers | C27A25

zenith **Z**

zenith **Z**

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING:

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

WARNING:

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

POWER CORD POLARIZATION:

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 EL POUSSER JUSQU'AU FOND.

NOTE TO CABLE/TV INSTALLER:

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

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 when the
equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency
energy and, if not installed and used in accordance with the instruction manual, 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 for help.

COMPLIANCE:

The responsible party for this device compliance is:
Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069, USA, Phone 1-847-941-8000.

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.

B-WARN-DV-1 7/98

IMPORTANT SAFETY INSTRUCTIONS

Important safeguards for you and your new product

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

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

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

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

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

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

4. Heed Warnings

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

5. Cleaning

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

6. Water and Moisture

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

7. Accessories

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

8. Transporting Product

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

PORTABLE CART WARNING

9. Attachments

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

10. Ventilation

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

11. Power Sources

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

12. Line-Cord Polarization

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

13. Power-Cord Protection

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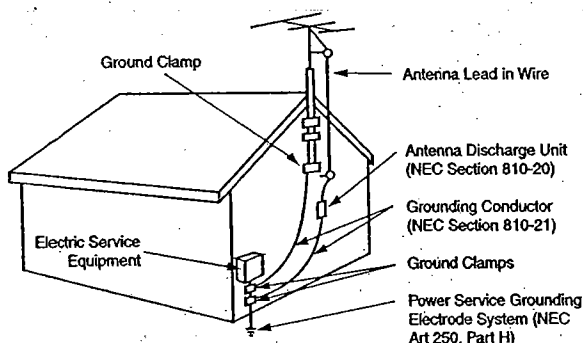
(Continued from previous page)

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

Ground Clamp

Antenna Lead in Wire

Antenna Discharge Unit
(NEC Section 810-20)

Grounding Conductor
(NEC Section 810-21)

Electric Service Equipment

Ground Clamps

Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning

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

16. Power Lines

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

17. Overloading

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

18. Object and Liquid Entry

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

19. Servicing

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

20. Damage Requiring Service

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

a. If the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or the cabinet has been damaged.

f. If the product exhibits a distinct change in performance.

21. Replacement Parts

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

22. Safety Check

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

23. Wall or Ceiling Mounting

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

24. Heat

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

206-3802

Turn to the next page to set up your Entertainment Machine™

Features on this TV also include:

PIP - *Picture-in-Picture, see page 34.*

Programmable Remote Control - *Remote may control up to 7 products, see page 38.*

Extended data service (XDS) *shows in-depth program information, see page 32.*

EZ Features: Designed to make your viewing experience less work; see the EZ Help menu on page 37.

EZ Program	Finds channels in your area automatically.
EZ Clock	Sets the time in the TV's clock.
EZ Picture	Customizes video level settings.
EZ Sound	Adjusts sound based on program.
EZ SoundRite	Maintains and even sound level during programming volume variances.
EZ Timer	Sets times to turn TV on/off automatically.
EZ Mute	Displays Closed Captions/Text selection when TV sound is mute, while picture remains.
EZ Demo	Shows menus and displays on this TV.
EZ Help	Offers solutions to common problems on one convenient menu.

Note: Design and specifications are subject to change without prior notice.

This page directs you to the appropriate page for hook up of your Entertainment Machine
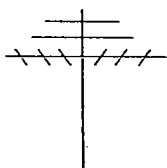
IMPORTANT!!

Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.
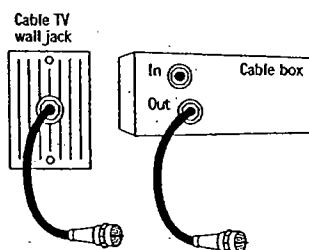Note: Design and specifications are subject to change without prior notification.

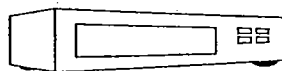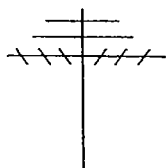**Antenna only** If you are using an antenna and no other equipment, go to .... page 7

Cable only If you subscribe to cable service and use no other equipment, go to .... page 8

Cable TV
wall jack

In Cable box
Out

Antenna with VCR If you are using an antenna and have a VCR, go to .... page 9

Cable and VCR If you subscribe to cable service and have a VCR, go to .... page 10

Cable TV
wall jack

In Cable box
Out
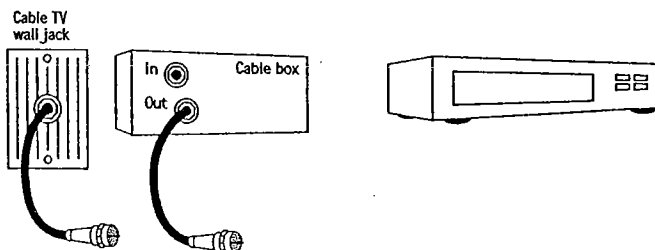
S-VHS/DVD/Stereo If you have a Super VHS VCR, a DVD Player, go to .... page 11

If you want to connect Audio equipment, go to .... page 12
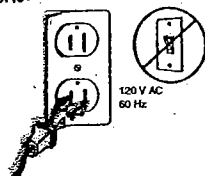
206-3802

Connect an off air antenna to your Entertainment Machine

1 Hook up your Entertainment Machine, see diagrams at right.

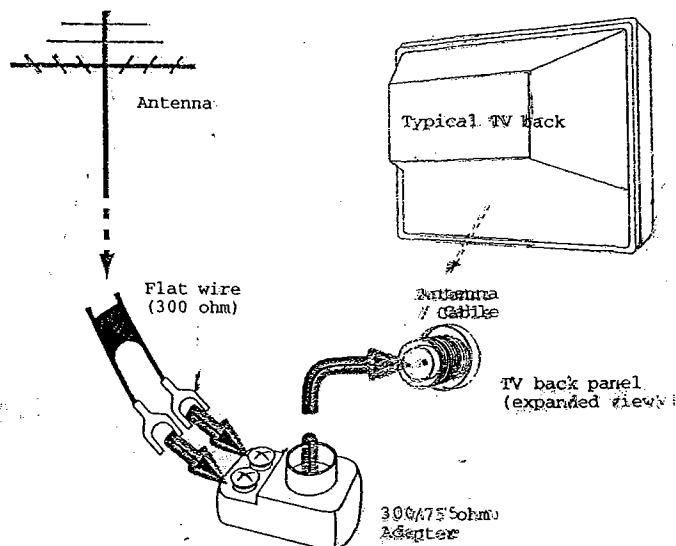**2** Remove the back of the remote and put in two AAA batteries.

back of remote

3 Plug in your TV. Do not plug it into a switched outlet.

120 V AC
60 Hz

4 Go to page 13 to EZ Program your Entertainment Machine.

Antenna

Typical TV back

Flat wire
(300 ohm)

Antenna
/ Cable

TV back panel
(expanded view)

300/75 ohm
Adapter
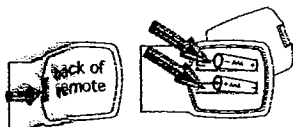
If you have a 75 ohm RF cable, then you don't need any adapters!

Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

A 300 to 75 ohm adapter is not included with your Zenith Entertainment Machine.

Antenna

Typical TV back

RF coaxial wire
(75 ohm)

Antenna
/ Cable

TV back panel
(expanded view)
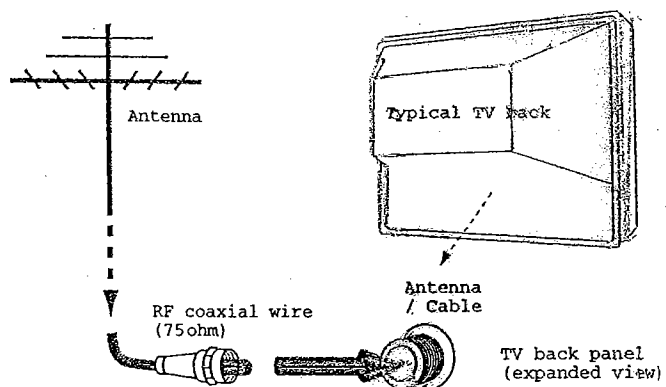
Mini glossary

75 OHM RF CABLE	The wire that comes from an off air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.
300-75 OHM ADAPTER	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

206-3802

Connect Cable Service to your Entertainment Machine

1 Hook up your Entertainment Machine, see diagrams at right.

2 Remove the back of the remote and put in two AAA batteries.

back of remote

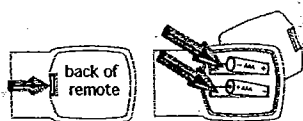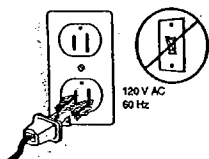**3** Plug in your TV. Do not plug it into a switched outlet.

120 V AC
60 Hz

4 Go to page 13 to EZ Program your Entertainment Machine.

☺ *If you're using a cable box, leave your TV on channel 3 or 4 and use your cable box to change channels.*

☺ *Remember to set the cable box output channel switch to channel 3 or 4.*

☹ *If you're using a cable box, EZ Program (page 13) might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!*

Without Cable Box

Cable TV wall jack

Typical TV back

Antenna / Cable

RF coaxial wire (75 ohm)

TV back panel (expanded view)

With Cable Box

Cable TV wall jack

In   Cable box

Out   output switch 3 4

Typical TV back

Antenna / Cable

RF coaxial wire (75 ohm)

TV back panel (expanded view)
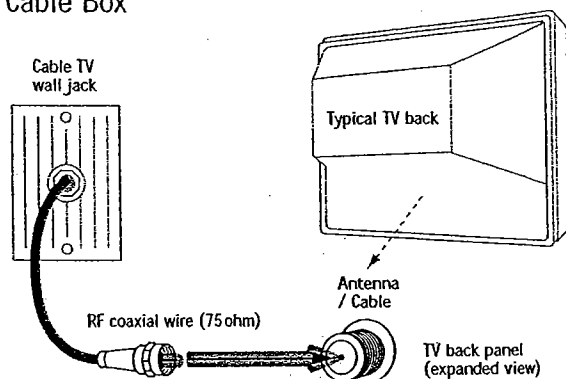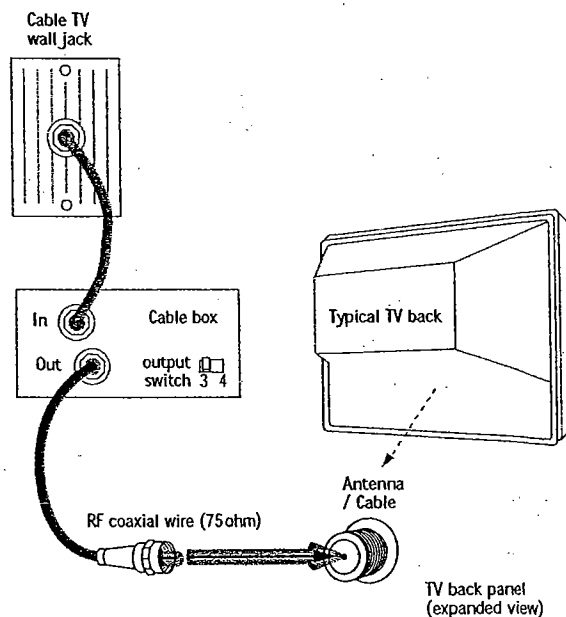
Mini glossary

CABLE SERVICE   The wire that supplies all your cable TV (CATV) stations.

*Connect an off air antenna and
VCR to your Entertainment Machine*

Antenna

Antenna

Round wire (75 ohm)

1 Hook up your Entertainment
Machine, see diagrams at right.

Flat wire
(300 ohm)

2 Remove the back of the remote and
put in two AAA batteries.

back of
remote

300/75 ohm
Adapter

VCR back

VCR back A/V panel

In   output
      switch 3 4
      Audio Video
Out   R-L Out Out

3 Plug in your TV. Do not plug it into
a switched outlet.

120 V AC
60 Hz

Typical
TV back

RF coaxial wire
(75 ohm)
not included
with TV

4 Go to page 13 to EZ Program your
Entertainment Machine.

Variable Audio Out

R   L

S - Video   Video   Audio

Antenna
/ Cable

R   L / Mono
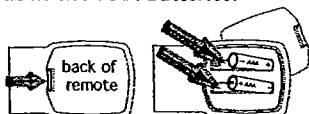
Remember to set the VCR output
channel switch to channel 3 or 4.

Video sources provide better
picture and sound.

Without A/V cable hookup, VCRs
will not play videocassettes in
stereo sound.

TV back panel
(expanded view)

A/V cables
not included
with TV

Front input jacks
are also available for
Video, L - R Audio.

L audio R   video   s-video
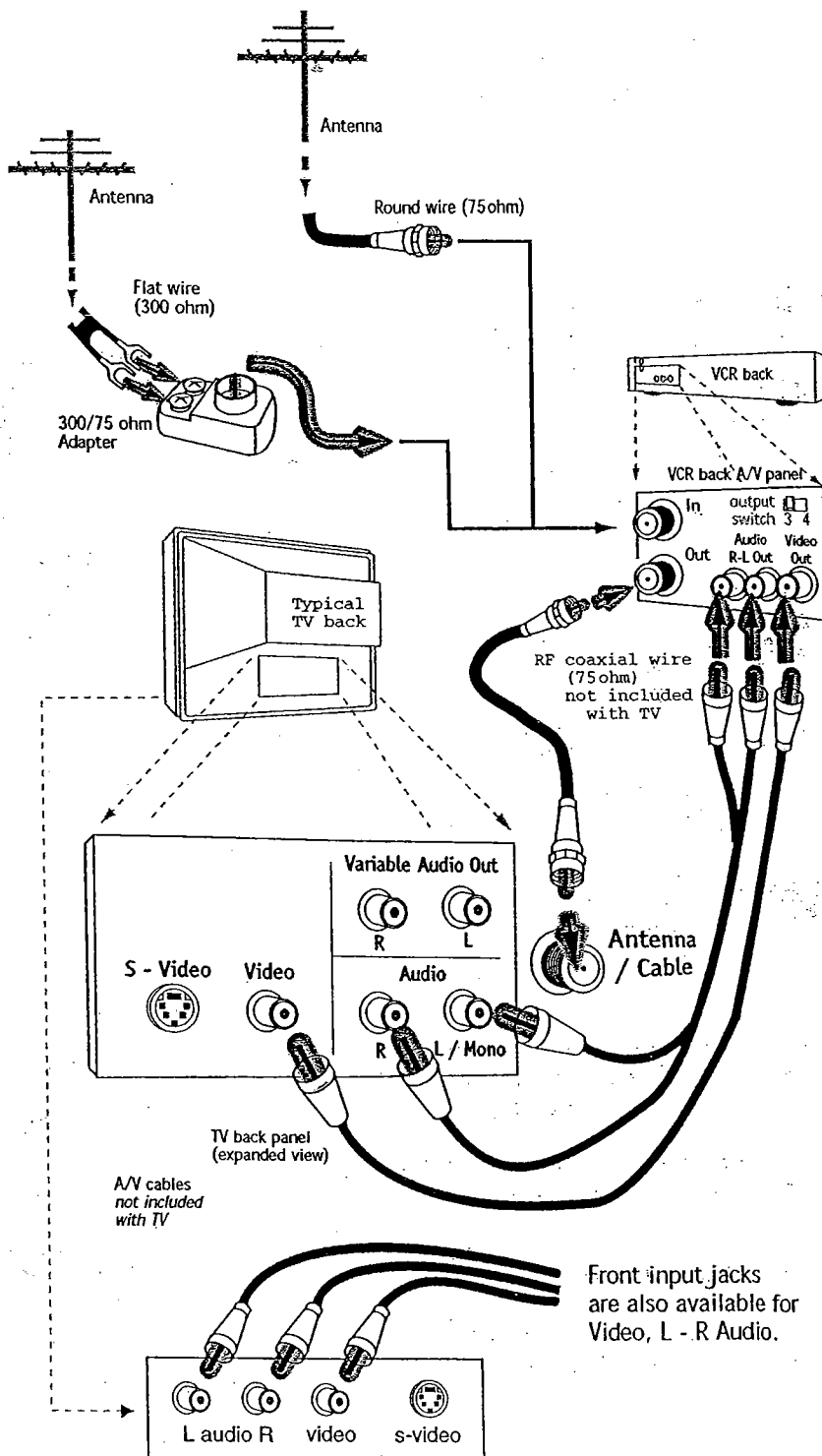
Connect Cable service and a
VCR to your Entertainment Machine

1 Hook up your Entertainment
Machine, see diagrams at right.

2 Remove the back of the remote and
put in two AAA batteries.

back of
remote

3 Plug in your TV. Do not plug it into
a switched outlet.

120 V AC
60 Hz
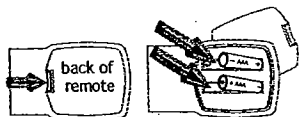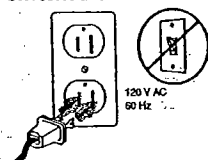
4 Go to page 13 to EZ Program your
Entertainment Machine.

☺ Leave your VCR and your television
tuned to channel 3 or 4 and use the
cable box to change channels.

☺ Remember to set the cable box output
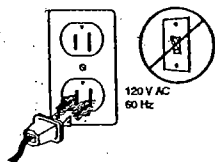channel switch to channel 3 or 4.

☺ Auxiliary sources provide better picture and
picture and sound.

☹ No A/V cables are included with your
Zenith Entertainment Machine.

Cable TV
wall jack

RF coaxial wire (75 ohm)

Cable TV
wall jack

In   Cable box

Out   output
switch 3 4

VCR back

VCR back A/V panel

In   output
switch 3 4
Audio   Video
Out   R-L Out   Out

Typical
TV back

RF coaxial wire
(75 ohm)
not included
with TV

Variable Audio Out

R   L

S - Video   Video   Audio

R   L / Mono

Antenna
/ Cable

TV back panel
(expanded view)

A/V cables
not included
with TV

Front input jacks
are also available for
Video, L - R Audio.

L audio R   video   s-video

206-3802
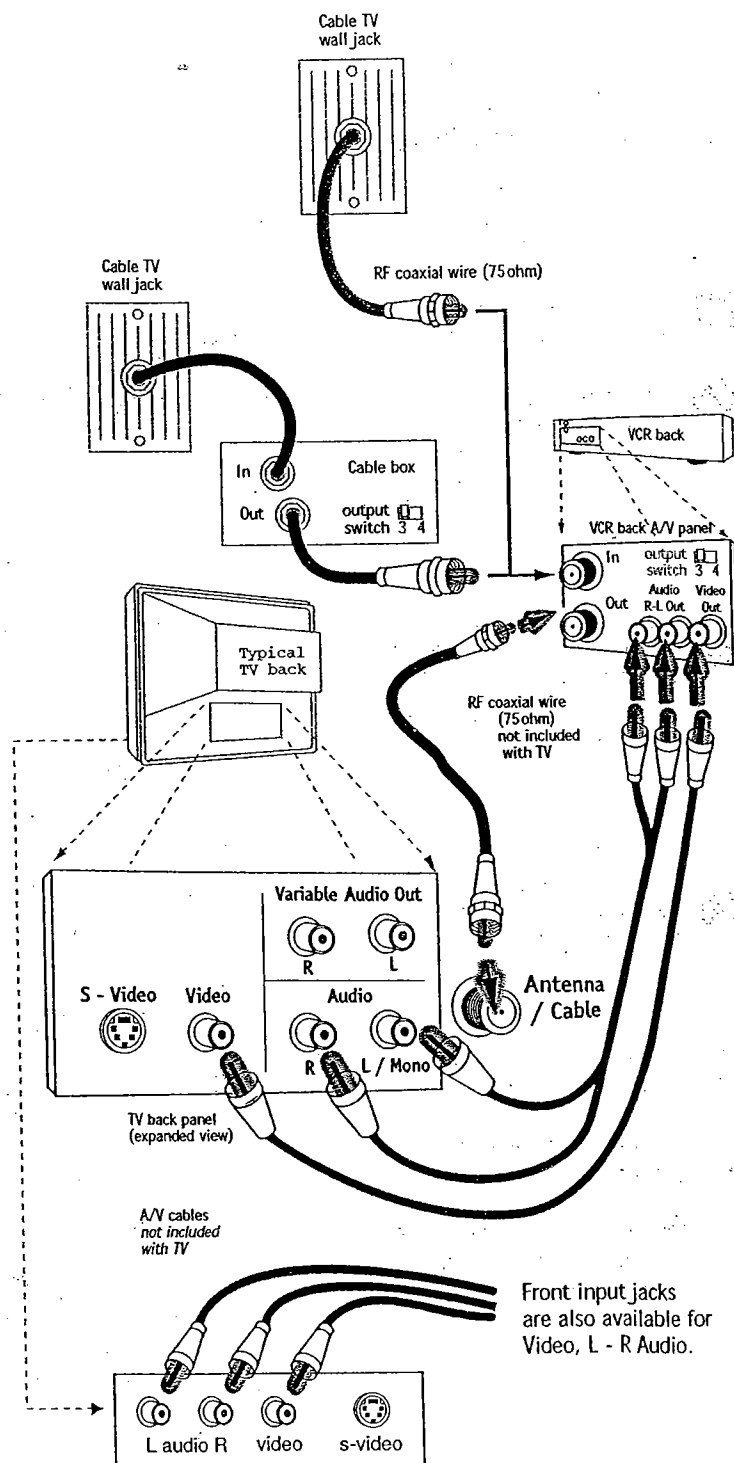
Connecting a S-VHS VCR or DVD player to your Entertainment Machine

Super VHS VCR

1 Locate the Ant In jack on the back of your S-VHS VCR. Connect the cable line coming from your wall directly to this jack.

2 Now locate the Out to TV jack. Connect a cable from the Out to TV jack to the ANT IN jack on the back of your TV.

3 Find the audio and S-Video jacks on the back of your S-VHS VCR, and connect them following the instructions provided with your equipment.

DVD (Digital Video Disk) Player

Simply connect the S-Video/Audio out on the DVD to the S-Video Input, R-L Audio on the TV.

☺ *To use with PIP: go to the Source Menu (page 24) and choose the jack you've connected your S-VHS equipment to as the Main or PIP source.*

☹ *The TVs rear connections panel has both Video and S-Input jacks. You can connect equipment to either of these input jacks but not at the same time. Use the R - L Audio input jacks with either an S-Input or Video input.*

(VCR Only)
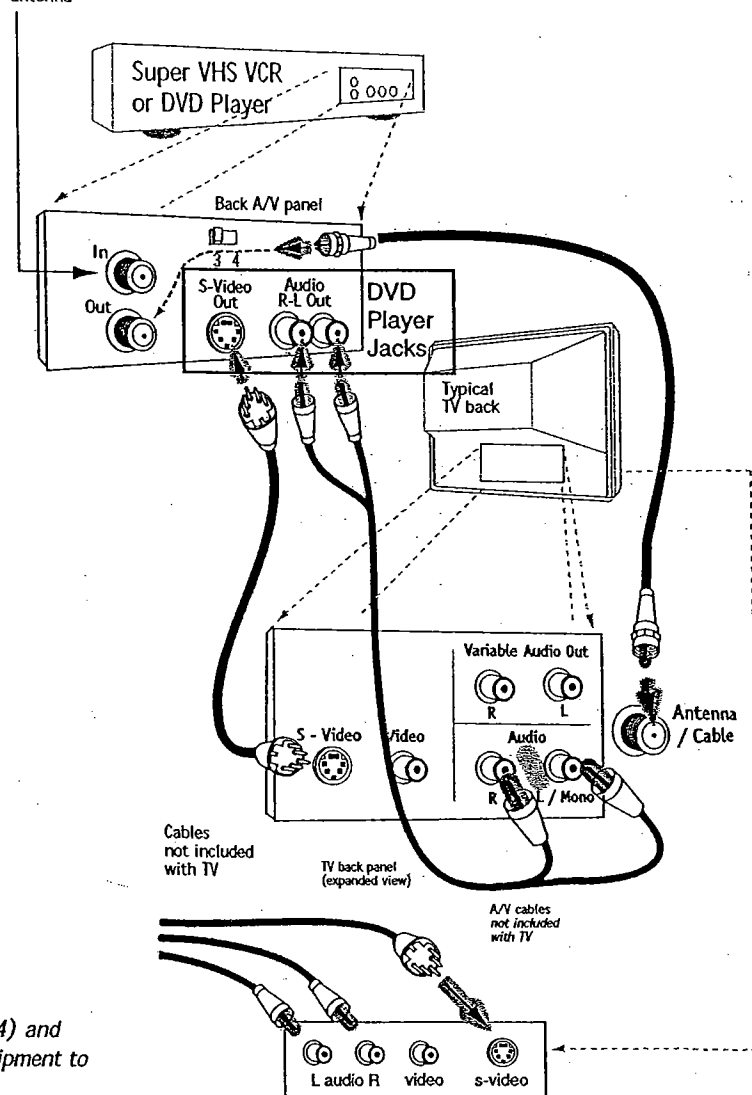Attach to cable wall jack, cable box, or antenna

Super VHS VCR or DVD Player

Back A/V panel

In / Out

S-Video Out   Audio R-L Out   DVD Player Jacks

Typical TV back

Variable Audio Out
R   L

S - Video   Video   Audio   Antenna / Cable
R   L / Mono

Cables not included with TV

TV back panel (expanded view)

A/V cables not included with TV

L audio R   video   s-video

Front input jacks are also available for S-Video, L - R Audio.

Mini-glossary	
S-VHS	Provides higher quality picture and sound than an ordinary VCR when connected to the S-Video in jacks.
DVD PLAYER	Digital Video Disks use the S-Video in jacks to provide the highest quality reproduction available from this technology.

Use your stereo to play the sound from your Entertainment Machine

1 Locate the jacks marked Variable Audio Out, R - L. These are for the stereo system. Connect the stereo system's cables, according to their color (red is the right channel, white the left) to these jacks.

Before you begin plugging in your stereo system, it's a good idea to put it in its approximate place first. That way you know how much wire you have or will need.

Typical
TV back

Variable Audio Out

R   L

S - Video   Video   Audio

R   L / Mono

R-L Audio
Input

A/V cables
are not included
with TV

Stereo System

206-3802

```
┌─────────────────────────────┐
│           SETUP             │
└─────────────────────────────┘
```

⊞	EZ PROGRAM ▶	CABLE TV
📺	ADD/DEL/SURF	✓ AIR ANTENNA
🔊	EZ CLOCK	
	CAPTIONS	
🔒	CAPTION/TEXT	
✦	LANGUAGE	
	SOURCE MENU	
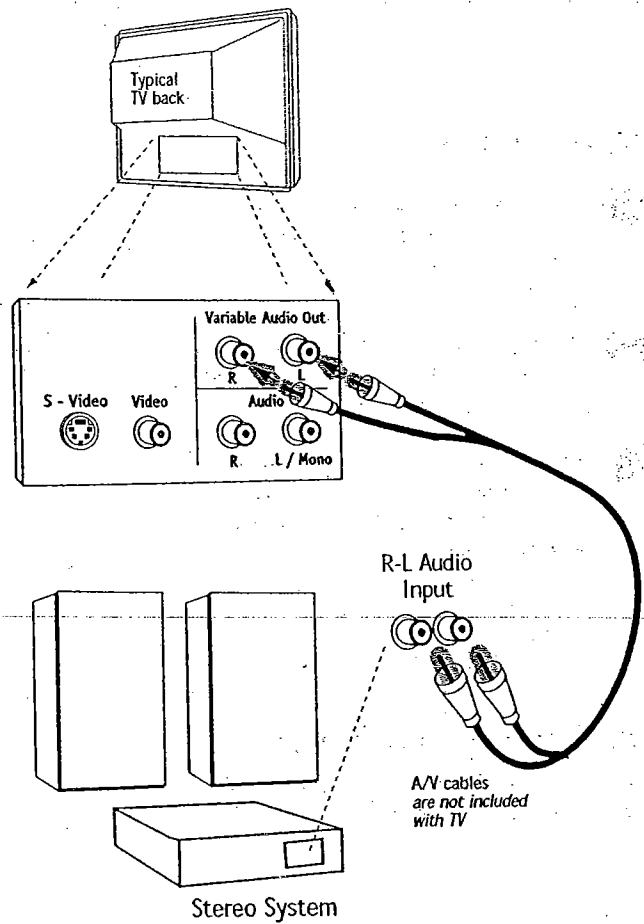
Use EZ Program to automatically find and store in the TV's memory all the channels in your area

Select:
AIR ANTENNA, If you receive over-the-air programs.
CABLE TV, If you subscribe to a cable service.

```
(MENU) NEXT MENU ⬍ MOVE ▶ NEXT
```

1 Press MENU repeatedly until the SETUP menu appears.

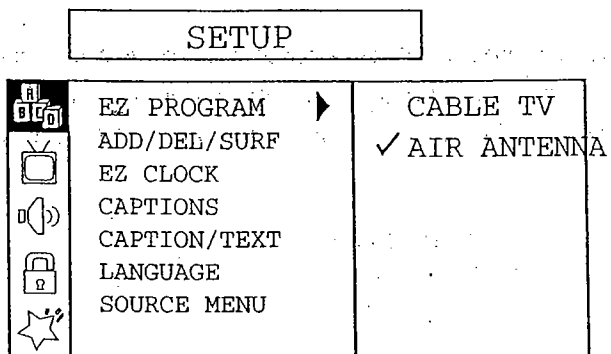**2** Using the Up or Down arrow on the remote control, select EZ Program on your screen.

3 Press the Right arrow to go to the EZ Program options.

4 Using the Up or Down arrow, choose either Air Antenna, or Cable TV on your screen.

5 Press the LEFT arrow to begin the channel search.

6 When the search is complete, press QUIT repeatedly to return to TV viewing.

😊 *Note: EZ Program finds channels being received by the TV tuner.*

😞 *Cable will not work unless you subscribe to a cable service.*
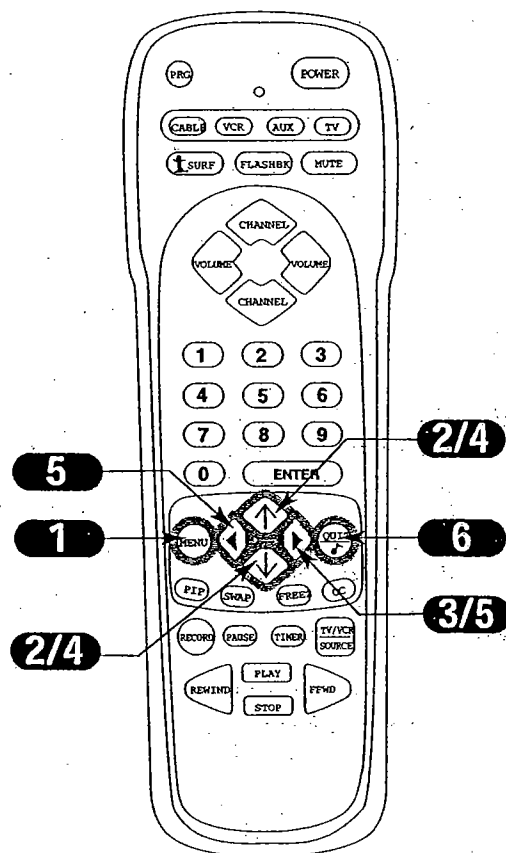
Mini glossary

AIR ANTENNA	The device receiving the program signal broadcast over-the-air.
CABLE TV	Your EZ Program selection, if you subscribe to a cable service.

Note: Pressing TV puts remote into TV operating mode
A quick list of the keys on your remote and what they do in TV mode,
see page 44 for remote key functions in the other modes

PRG (PROGRAM)
Programs your remote to operate other products.
See page 38.

FLASHBK (FLASHBACK)
Return to the last channel viewed.

SURF
Press to turn Surf channel scan on and off for channel scanning using Channel Up/Down.
On=Only Surf channels appear.
Off=Normal channel scan.

CHANNEL UP / DOWN
Tunes next available channel.

MENU
Shows on-screen menus for TV mode. See page 18.

(MENU) LEFT / RIGHT DIRECTIONAL ARROWS
The Left/Right directional arrows *select* and *adjust* menu options.

PIP FEATURES
For PIP (Picture-in-Picture) operation. See page 34.

TIMER
Displays the Sleep Timer Menu.
See page 30.

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

POWER
Turns TV On or Off.

LED INDICATOR LIGHT
Lights when keys are pressed.

CABLE / VCR / AUX / TV
Selects remote operating mode.

MUTE
Turns sound Off and On while the picture remains.

VOLUME LEFT / RIGHT
Adjusts the sound level.

NUMBER KEYPAD
Selects channels directly and enters numeric values for some options.

ENTER
Shows the Channel/Time display.

(MENU) UP / DOWN DIRECTIONAL ARROWS
The Up/Down directional arrows *select* and *adjust* menu options.

QUIT/ ♪
Removes on-screen menu/display from view. ♪With no menus shown on-screen, turns front surround sound on and off.

CLOSED CAPTIONS
Selects Off, On, or EZ Mute.

TV / VCR SOURCE
Switches between watching TV through antenna/cable, or one of the video sources.

remote control part number
MBR3457CT
(124-233-05)

206-3802

Use either the remote or the TV front controls to access the on-screen menus

PARENTAL CTRL		
	AUX. BLOCK ▶	✓ UNBLOCKED
	MPAA	BLOCKED
	AGE BLOCK	
	CONTENT BLK	
	SET HOURS	
	SET PASSWORD	
	LOCK ON/OFF	

(MENU) NEXT MENU ⬍ MOVE ▶ NEXT

1 Press MENU repeatedly on the remote control, to "select" one of the five main menus on your screen like PARENTAL CONTROL.

2 Use the UP/DOWN directional arrow to select an option like AUX. BLOCK. (You can select the other menu options like AGE BLOCK by pressing the UP or DOWN directional arrow repeatedly.)

3 Once the option is selected, in this case AUX BLOCK, press the RIGHT directional arrow to go to the next selection of options.

4 Use the UP or DOWN directional arrow to choose an option, in this case BLOCKED or UNBLOCKED.

5 When finished, press MENU repeatedly to go back to the main menu or press QUIT to remove the menus and submenus from the TV screen.

☺ *On-screen menus automatically disappear after about 10 seconds.*

☹ *Remote must be in the TV mode for it to control the TV.*
Press TV on the remote to select TV mode.
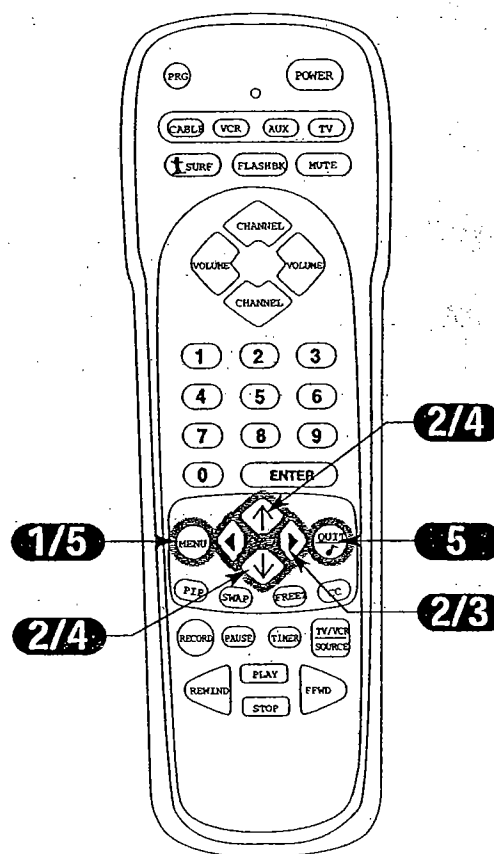
Mini glossary

MENU	On-screen displays you use to program the TV features.
UP/DOWN	Use the Menu UP or DOWN directional arrow to "select" or highlight and choose menu options.
LEFT/RIGHT	Use the Menu LEFT or RIGHT directional arrow to move to or return from the menu options listings.
QUIT	Exits menus and removes on-screen displays.
ENTER	Returns to the previously selected menu option on some menus.

How to use your front control panel to operate the menus

When using the on-screen menus, the buttons on the TV front panel correspond to the remote control keys as follows:

CHANNEL =   Moves Up/Down
VOLUME =   Moves Left/Right

1 To access the on-screen menus, press MENU. Pressing MENU repeatedly will cycle through the available menus.

2 Highlight the option you want using the DOWN or UP Channel arrow.

3 ADJUST or change the selected feature using the LEFT or RIGHT Volume arrow.

4 Wait a few moments and the menus will disappear by themselves or press MENU repeatedly to remove menus.

☺ *Menus disappear by themselves. To get them back, press MENU again.*

☹ *If you've lost your remote, you can get a new one by calling 1-800-255-6790 to purchase a replacement.*

Typical TV Front Panel

menu   ▼ channel ▲   ◀ volume ▶   power   L audio R video s-video

1   **2**   **3**

Turns TV On and Off

Front Audio/Video Inputs

Front S-Video Input

206-3802

Front and Back
Connection Panels.
Where picture and
sound "sources" are
connected.

Variable Audio Out
R   L

S – Video   Video   **Audio**
R   L / Mono

Antenna
/ Cable

L audio R   video   s-video

Typical
TV back

Camcorder

VCR

S-Video VCR

DVD Player

Other
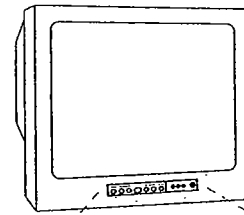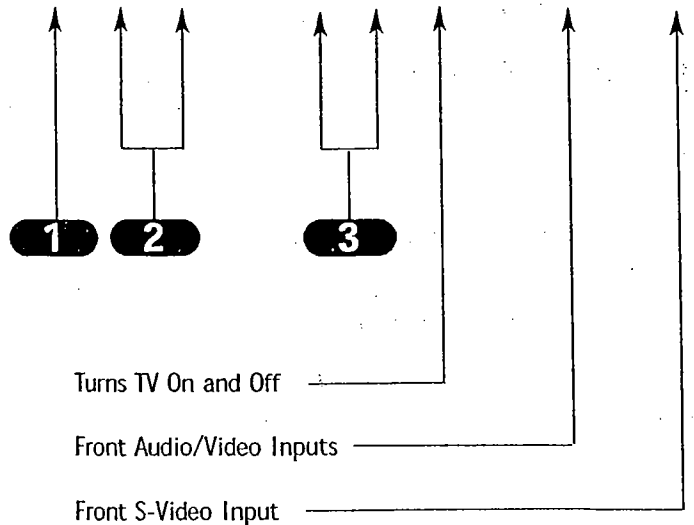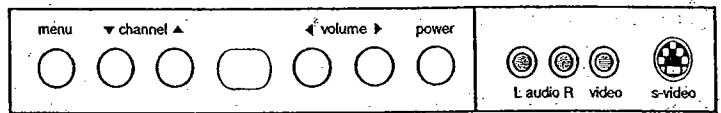
Typical Equipment Sources

*Pick the viewing source (picture and sound) you want to
see and hear on your Entertainment Machine*

1 Press TV/VCR SOURCE repeatedly to choose from the available
viewing sources that are connected to the TV.

Available Sources:

<u>Back Connections Panel</u>

ANTENNA/CABLE: ANTENNA/CABLE on TV back Jackpack,
Over-the-Air Antenna or Cable service signal source.

Video 1: Video on TV back Jackpack,
Audio/Video Inputs.

S-Video 1: S-Video on TV back Jackpack,
Audio/Video Inputs.

<u>Front Connections Panel</u>

Video 2: Video on TV Front Jackpack,
Audio/Video Inputs.

S-Video 2: S-Video on TV Front Jackpack,
Audio/Video Inputs.
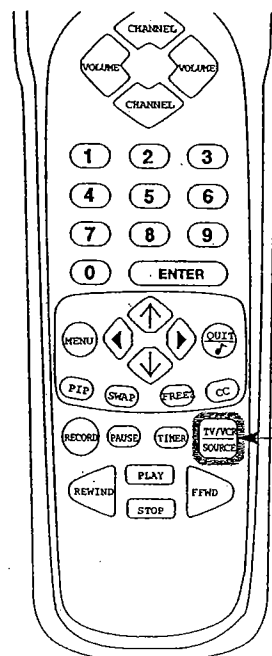
The sources you intend to view should be turned on.

*You can connect equipment to the Video or S-Video jacks, but not at
the same time. Use the Audio input jacks with either the S-Video or
Video input.*

Descriptions of the menus and displays on your Entertainment Machine

Menu Name	Page	Description/Function
ON-SCREEN MENUS		
SETUP	13	Sets the TV up and adjusts the basic features. Your options are:
EZ Program	13	Automatically finds and stores active channels you will choose using Channel Up/Down.
Add/Del/Surf	20	Choose which channels will appear when using Channel Up/Down. Adds favorite channels to Surf list.
EZ Clock	21	Sets the TV's clock.
Captions	22	Turns closed captioning on, off, or set it to come on when the television sound is muted.
Caption/Text	22	Chooses a captioning or text option.
Language	23	Chooses the language in which you want the on-screen menus to appear.
Source Menu	24	Selects which picture and sound will appear on your TV main screen and PIP inset picture.
VIDEO	25	Adjusts the picture for different viewing situations. Your options are: Contrast, Brightness, Color, Tint, Sharpness, Color Temperature, EZ Picture.
AUDIO	26	Customizes the sound to suit your room and taste. Your options are: Bass, Treble, Balance, Audio Mode, Front Surround, EZ Soundrite, Speakers, EZ Sound.
PARENTAL CTRL	27	Allows parents to block any program or A/V source for up to 99 hours, with the use of a password.
SPECIAL	30	Goes beyond basics and customizes your Entertainment Machine's features. Your options are:
EZ Timer	30	Sleep Timer — Sets a time that the TV will automatically turn itself off. On Time — Sets the time the TV will turn on automatically each day. Off Time — Sets the time the TV will turn off automatically each day. On/Off Timer — Enables or disables the On and Off Time features.
Channel Labels	32	Titles the channels with their network names (ABC, CBS, HBO, etc.).
XDS Display	32	On/Off. If available, shows program information when a channel is tuned or ENTER is pressed.
PIP Menu	33	Adjusts the Contrast, Brightness, Color, Tint, and Size of the PIP picture.
EZ Demo	36	Demonstrates the on-screen menus that control TV setup and operational features.
EZ Help	37	Help menu offers several features from different menus that can be adjusted on one convenient menu.
ON-SCREEN DISPLAYS		
Surf's Up	19	Indicates channel selection is in Surf mode.
No Surfing	19	Indicates that Surf channel selection has been turned off and normal channel selection mode is on.
Mute	19	Indicates sound has been removed.
Volume Display	19	Shows the current sound level.
Channel/Time	19	Shows the current time, channel, video/incoming audio signal, and channel label if available.
PIP/Channel	19	Appears on the Channel/Time display if PIP is on.
Sleep Timer	19	Shows the chosen amount of time in which the TV will turn itself off.
Captions/Text	19	Selected caption or text option appears on-screen if provided by broadcaster.

206-3802

On-screen displays reveal the current status of your Entertainment Machine

```
CH 32-UPN
  2:45 PM
 STEREO
PIP
CH 2-CBS
```

Closed Captions scroll across the screen as an aid to viewers and the hearing impaired....

A **"Surf" Channels Mode Active Display**
Press SURF to turn on Surf channels tuning mode; only channels specified as Surf channels will appear when using channel Up/Down.

```
Surf's Up! 夨
```

No Surfing
Press SURF to display "No Surfing!" and return to normal channel tuning mode.

```
No Surfing ⊘
```

B **Mute Display**
Press MUTE to quiet sound.
Press MUTE again to remove the sound.
Press MUTE a third time to restore the sound.
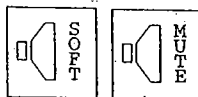
C **Volume Display**
Press the VOLUME Left/Right arrow on the remote control, to view the sound status.

```
⊲)) VOLUME
    ▮▮▮▮▮|||||||||||||||||||||||||
```

D **Channel/Time Display** (Shown above with PIP on)
Press ENTER on the remote control to view the Channel/Time/incoming audio signal display.

E **Remove On-Screen Displays and Menus**
Press QUIT/♪ to remove displays or menus, returning to TV viewing. Or, wait a few moments and the displays or menus will automatically disappear from the screen. ♪Turns front surround sound on or off, if no menus are shown onscreen.

F **Captions/Text** (Appear if available, see above)
Press CC repeatedly to select a Captions/Text option or to turn Captions/Text off.

G **Sleep Timer Display**
Press TIMER on the remote control to view the Sleep Timer Status Display. Press TIMER repeatedly to set the amount of time before the TV automatically turns itself off.

```
🌙 SLEEP TIMER
     0:10
```
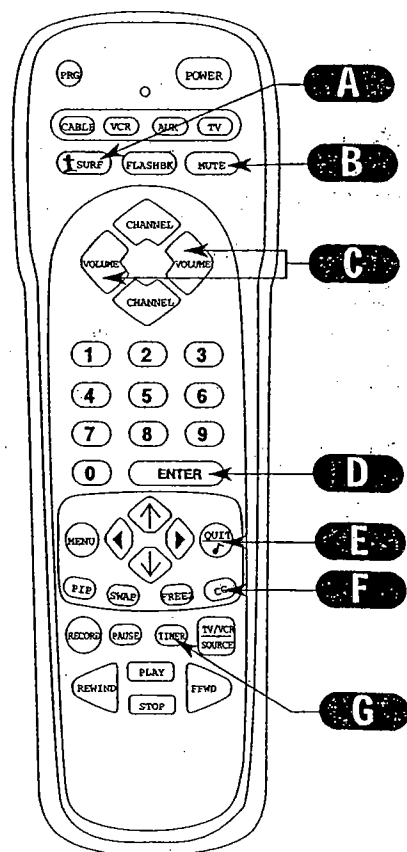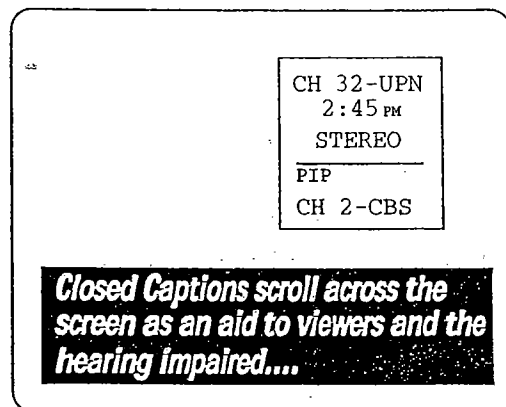
```
┌─────────────────────────────────┐
│            SETUP                │
├──────┬──────────────┬───────────┤
│ 🄰🄱  │ EZ PROGRAM   │           │
│ 🄲🄳  │ ADD/DEL/SURF ▶│ CH 20 DELETED
│ 📺   │ EZ CLOCK     │   ✓ ADDED │
│ 🔊   │ CAPTIONS     │     SURF  │
│      │ CAPTION/TEXT │           │
│ 🔒   │ LANGUAGE     │           │
│ ⭐   │ SOURCE MENU  │           │
└──────┴──────────────┴───────────┘
```

Customize your channel selection list:
Add Channels not found by EZ Program,
Delete channels you don't watch,
Create a favorite channels list to "Surf"
- - with Surf on, only those channels specified
as Surf channels will appear when using Channel
Up/Down

MENU NEXT MENU ⬍ MOVE ▶NEXT

1 Use the NUMBER keypad to go to the Channel you want to add, delete, or include in the Surf channel list.

2 Press MENU repeatedly until the SETUP menu appears.

3 Use the Up/Down arrow to highlight the Add/Del/Surf option, then press the Right (adjust) arrow.

4 Use the Up/Down arrow to pick ADDED or DELETED or SURF; move the check mark next to the option.

5 Use MENU to go back to the SETUP menu.

6 Press QUIT to remove menu when finished or go to another channel you want to add or delete by using the NUMBER keypad to select it and repeat from Step 3.

😊 *If you've deleted a channel, it isn't gone for good. Just select it using the NUMBER keypad on the remote, or add it later.*

😊 *Surf channels are automatically added.*
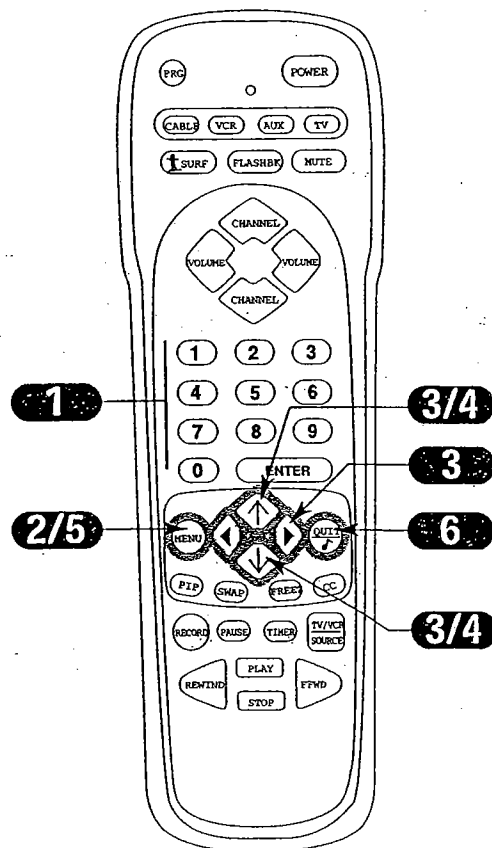
Mini glossary

ADDED   Includes new channels to the channel list that you'll scroll through when using Channel Up/Down.

DELETED   Removes channels that you don't watch from the channel list you'll scroll through using Channel Up/Down.

SURF   Adds your favorite channels to the Surf channel list. Press SURF, channels you specify as Surf channels will be the only ones to appear when you use Channel Up/Down. Press SURF repeatedly to turn Surf off, (No Surfing!) and return TV to normal channel selection mode.

Set the clock yourself or have the TV do it for you

```
┌─────────────────────────┐
│         SETUP           │
└─────────────────────────┘
```

EZ PROGRAM ADD/DEL/SURF EZ CLOCK CAPTIONS CAPTION/TEXT LANGUAGE SOURCE MENU	TO SET PRESS ▶

```
┌─────────────────────────────────────┐
│ (MENU) NEXT MENU ⬍ MOVE ▶NEXT       │
└─────────────────────────────────────┘
```

```
┌─────────────────────────┐
│        EZ CLOCK         │
└─────────────────────────┘
```

CLOCK MODE ▶ TIME ZONE DAY. SAVINGS	✓ AUTO MANUAL

```
┌─────────────────────────────────┐
│ ⬍MOVE    (MENU) BACK           │
└─────────────────────────────────┘
```

1 In the Setup menu with the EZ Clock option highlighted, press the Adjust RIGHT arrow to go to the EZ Clock Menu.

2 Use the Select UP or DOWN arrows, the Adjust LEFT or RIGHT arrows, and the NUMBER keypad to set the clock menu options. As indicated on the menu, use FLASHBK to set AM or PM.

EZ Clock Menu Options

3 **Manual Mode**
  User sets the EZ Clock options.
  • **Clock Mode:** Auto, Manual.
  • **Time Set:** Highlight Time Set, press the right arrow. Set hours/minutes using the NUMBER keypad or the left/right arrow keys. Use Flashbk for AM/PM.

Automatic Mode
  TV sets the clock, but the user can enter the menus and make custom changes if needed.
  • **Time Zone:** Auto, Eastern, Central, Mountain, Pacific.
  • **Daylight Savings:** Auto, Off, On.

4 Press QUIT to return to TV viewing.
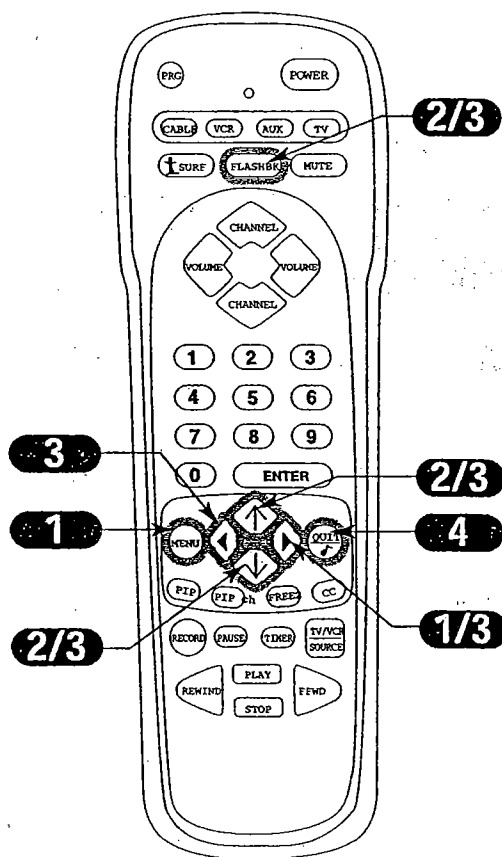
Mini glossary

TIME   A four-number figure broken down into hours and minutes; first two numbers are hours, last two numbers are minutes.

HOURS   First two numbers that are entered when setting the clock.

MINUTES   The second two numbers that are entered when setting the clock.

FLASHBK   Use to set AM or PM when setting time.

Turn on Closed Captioning or Captions when sound is Muted, then choose a Closed Captions or Text option

SETUP		
EZ PROGRAM		
ADD/DEL/SURF		
EZ CLOCK	OFF	
CAPTIONS ▶	✓ON	
CAPTION/TEXT	EZ MUTE	
LANGUAGE		
SOURCE MENU		

SETUP		
EZ PROGRAM	✓ CAPTION 1	
ADD/DEL/SURF	CAPTION 2	
EZ CLOCK	CAPTION 3	
CAPTIONS	CAPTION 4	
CAPTION/TEXT ▶	TEXT 1	
LANGUAGE	TEXT 2	
SOURCE MENU	TEXT 3	
	TEXT 4	
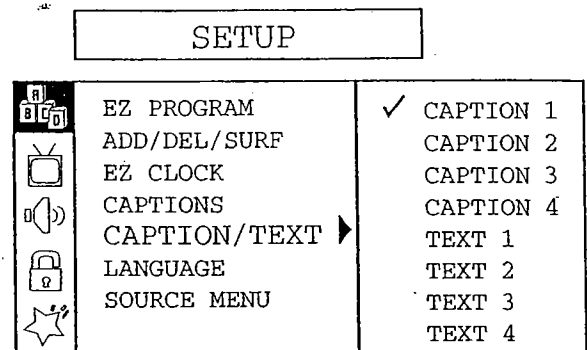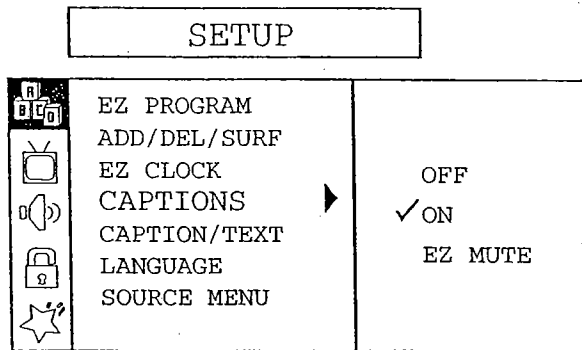
(MENU) NEXT MENU ⬍ MOVE ▶NEXT

(MENU) NEXT MENU ⬍ MOVE ▶NEXT

Caption/Text sets up your Entertainment Machine to receive various closed caption and text options if provided by broadcasters. <u>Availability and functionality of Caption/Text is determined only by the broadcaster</u>.

1 Press MENU repeatedly to select the SETUP menu.

2 Use the Up/Down arrow to choose Captions, then press the Right arrow.

3 Use the Up/Down arrow to select Off, On or EZ Mute, then press the Right arrow.
Note: If you selected either On or EZ Mute, then use the Up/Down/Left/Right arrows to choose an option from the Caption/Text menu: Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, or Text 4. To have that option appear when the TV is muted or a program is tuned to that has Closed Captions or Text.

4 Press QUIT to remove menu and return to TV viewing.

☺ *Captions come in handy when the television is on mute. Standard closed captioning is available using the Caption 1 option.*

☹ *Not all programming has closed captioning or text available, even though Captions 1, 2, 3, 4, and Text 1, 2, 3, 4 are available to broadcasters.*
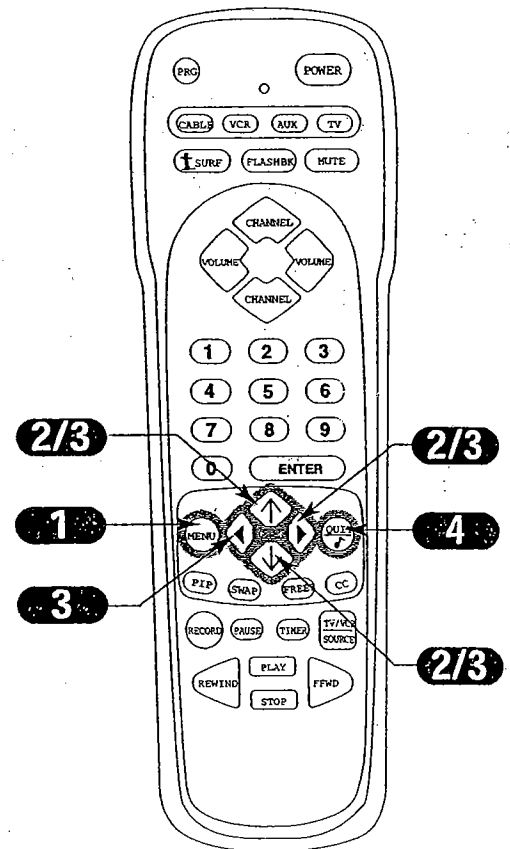
Mini glossary

CAPTIONS	The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.
TEXT	The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

206-3802

Choose the language in which you want the
on-screen menus to appear

SETUP		
EZ PROGRAM		
ADD/DEL/SURF		
EZ CLOCK		
CAPTIONS		
CAPTION/TEXT		
LANGUAGE ▶	✓ ENGLISH	
SOURCE MENU	SPANISH	
	FRENCH	

MENU NEXT MENU ⬍ MOVE ▶ NEXT
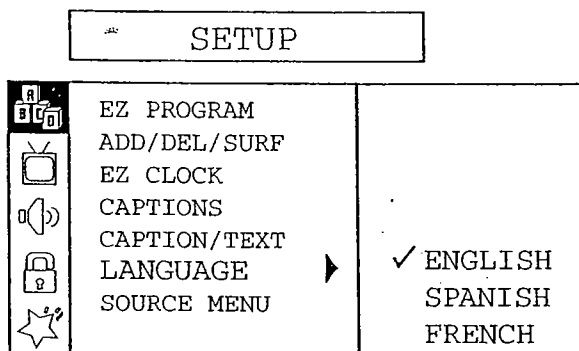
1 Press MENU repeatedly to select the SETUP menu.

2 Use the Up/Down arrow to select the Language option on your
screen, then press the Right arrow.

3 Use the Up/Down arrow to choose any of the following
options: English, Spanish or French, then press the Right
arrow.

4 Press QUIT to remove menu and to return to TV viewing.

2/3

2

1

4

2/3
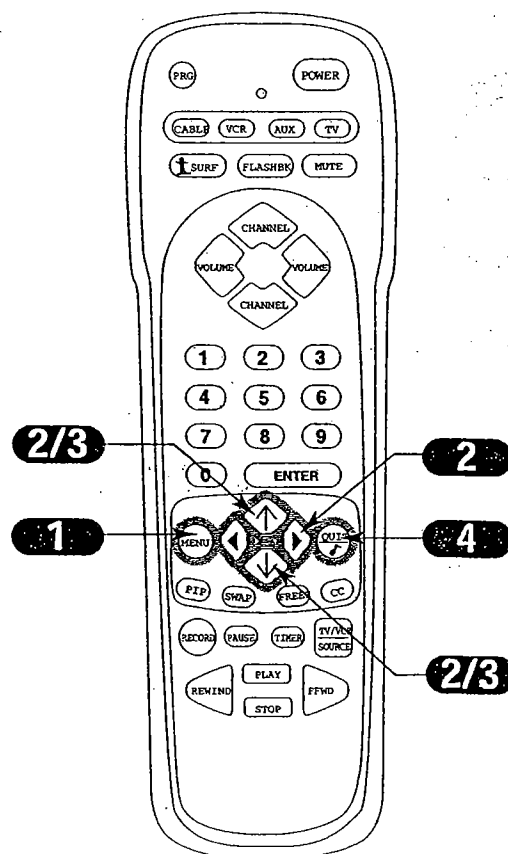
Choose the picture and sound you want to view on the Main Picture Screen and the smaller PIP inset

SETUP	
EZ PROGRAM ADD/DEL/SURF EZ CLOCK CAPTIONS CAPTION/TEXT LANGUAGE SOURCE MENU	TO SET PRESS ▶

(MENU) NEXT MENU ⬍ MOVE ▶ NEXT

SOURCE MENU	
MAIN SOURCE ▶ PIP SOURCE ▶	✓ ANTENNA/CABLE VIDEO 1 VIDEO 2

⬍ MOVE   (MENU) BACK
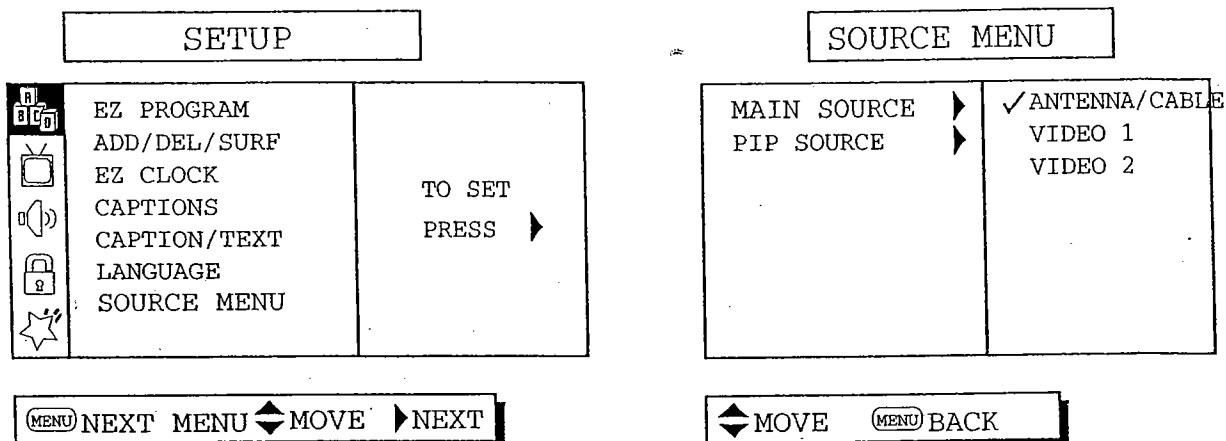
**Selecting Sources with the Menus**

1 Press MENU repeatedly to select the SETUP menu.

2 Use the Up/Down arrow to select SOURCE MENU, then press the Right arrow.

3 Use the Up/Down arrow to choose the MAIN SOURCE or PIP SOURCE option, press the Right arrow.

4 Use Up/Down arrow to select ANTENNA/CABLE, Video 1, or Video 2.

5 After you have selected viewing sources for the Main picture screen and the smaller PIP inset, press QUIT to remove menus and return to TV viewing.

Using TV/VCR SOURCE to Choose Viewing Sources
Press TV/VCR SOURCE repeatedly to scroll through the available sources: ANTENNA/CABLE, VIDEO 1, VIDEO 2.

Direct Source Access
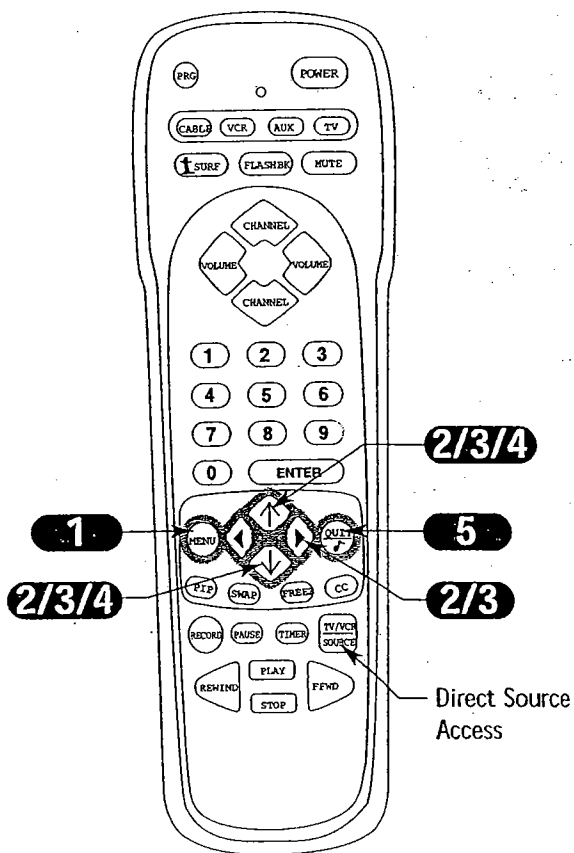
Mini glossary

ANTENNA/CABLE	The source from the ANTENNA/CABLE jack.
VIDEO 1, 2	The equipment connected to the video input jacks on the back or front of the TV: VCR, DVD, camcorder etc.
TV/VCR SOURCE	The key on the remote control providing direct access to available sources.

```
              VIDEO

   CONTRAST        ▶
   BRIGHTNESS
   COLOR                    ▲
   TINT             ♦ Move
   SHARPNESS        (MENU) Next MENU
   COLOR TEMP       ◀▶ Adjust
   EZ PICTURE
```

Customize the picture to your personal viewing preferences

```
   CONTRAST          64%
   ◀▮▮▮▮▮▮ |||||||||||||▶
```
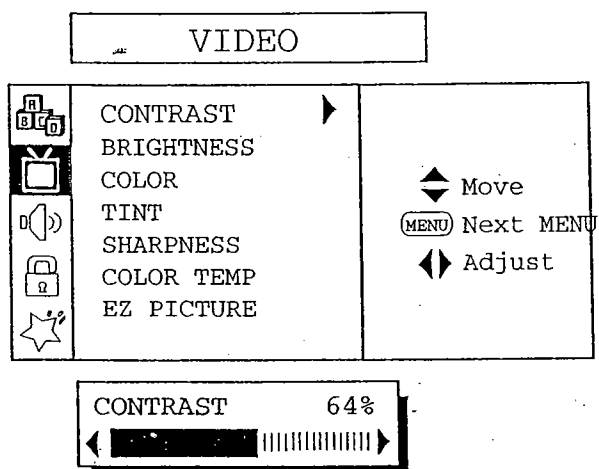
1 · With the VIDEO menu on-screen, use the Up/Down arrow to select an option like EZ Picture, press the Right arrow to go to the EZ Picture menu selections.

2 Using the Up/Down arrow, select a setting.
Your options are:

Contrast: Changes the amount of difference between black levels and white levels in your picture.

Brightness: Increases or decreases the amount of white in your picture.

Color: Adjusts levels of all colors.

Tint: Adjusts the relative amounts of the colors red and green in your picture.

Sharpness: Raises or lowers the definition of the picture. The lower the level, the softer the image will appear.

Color Temperature: Changes the overall picture appearance. Options are: Warm, Medium, Cool.

EZ Picture: Sets your viewing preference based on the viewed image's setting.
Options are: Custom, Normal, Movie, Digital Pres, Video Game, Sports, Weak Signal, Night Time.

3 · After you have used the Up/Down and Left/Right arrows to select and adjust the VIDEO menu options to your preference, press QUIT to return to TV viewing.
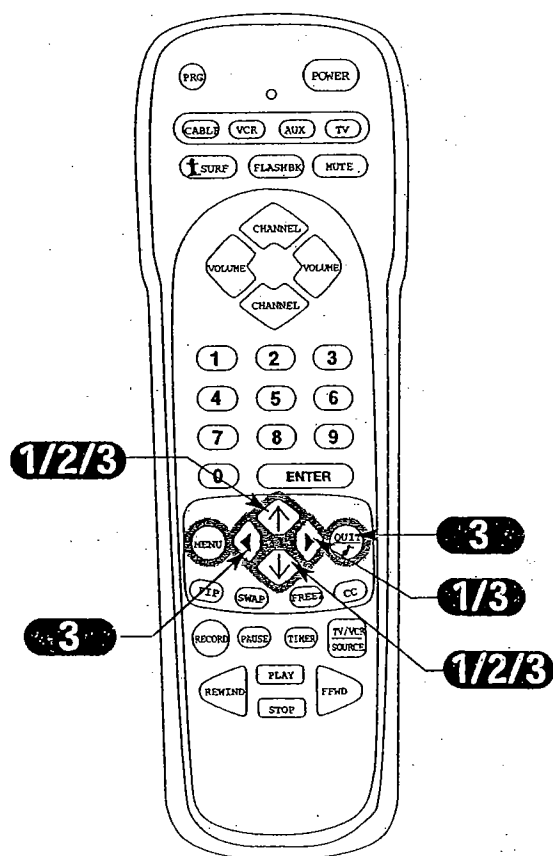
Mini glossary

Custom	The settings you have changed to your personal preferences.
Preset	Select this option to reset the video menu settings to their original levels.

```
┌─────────────────────────────┐
│          AUDIO              │
└─────────────────────────────┘
```

```
┌──────────────────────────────────────────┐
│  [icons]  BASS          ▶  │              │
│           TREBLE           │              │
│           BALANCE          │   ◆ Move     │
│           AUDIO MODE       │ (MENU) Next Menu │
│           FRONT SURR       │   ◀▶ Adjust  │
│           EZ SOUNDRITE     │              │
│           SPEAKERS         │              │
│           EZ SOUND         │              │
└──────────────────────────────────────────┘
```

Personalize the sound coming from your
Entertainment Machine

```
┌─────────────────────────────┐
│  BASS            92%        │
│  ◀ ███████████████ ||||▶    │
└─────────────────────────────┘
```
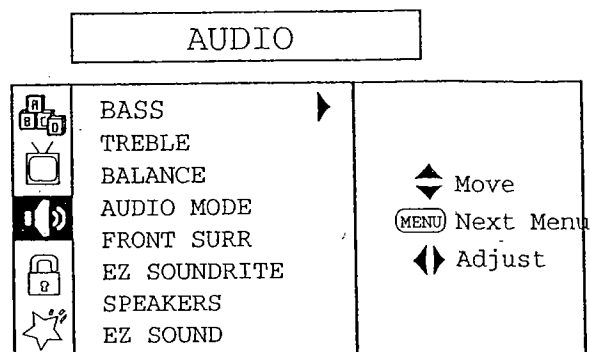
1 With the AUDIO menu selected and the Audio Mode option highlighted, press the Right arrow.

2 Using the Left/Right arrows, select your preferred settings. Choose from Mono, Stereo, or SAP.
Audio Menu Options Include:

- **Bass:** Increases/decreases lower-end sounds.
- **Treble:** Increases/decreases higher-end sounds.
- **Balance:** Allows you to put the sound more to the left or right channel.
- **Audio Mode:** Chooses sound: Stereo, Mono, 2nd Audio/SAP.
- **Front Surr:** Turns front surround sound on and off.
  (Or QUIT/♪ will turn front surround sound on and off, if no menus are shown on the screen.)
- **EZ SoundRite:** Scans for changes in sound level during commercials, then adjusts the sound to match your current level.
- **Speakers:** Turns the regular speakers on or off.
- **EZ Sound:** Chooses from Custom, Normal, Stadium, News, Music, or Theater. (Normal resets all audio settings to original levels.)

3 Press the Left arrow to go back to the AUDIO menu and change other options settings to your preference.

4 Press QUIT to remove menu and return to TV viewing.

[😦] *Not all programming is broadcast in stereo sound or has Second Audio Programming/SAP.*

[😦] *If 2nd Audio SAP is selected and none is present, audio may not be heard.*
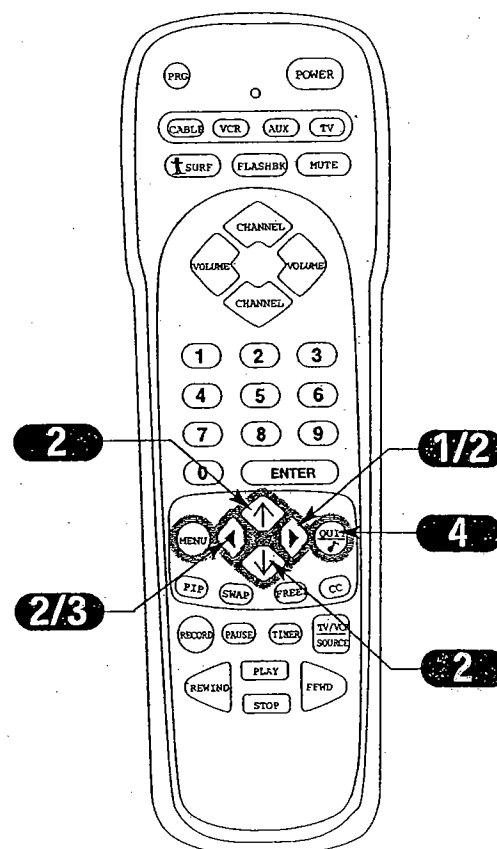
Mini-glossary

AUDIO MODES

Mono	Sound is broadcast over one audio track.
Stereo	Sound is broadcast over two audio tracks, divided between the left and right speakers.
2nd Audio/SAP	An extra audio signal that may be transmitted in addition to the regular audio portion of a broadcast.

206-3802

This optional feature can be used to "block" undesirable programming from appearing on your TV

Parental Control offers the user a wide variety of options and settings that restrict or "block" the programming that can appear on the TV. Parental Control allows the user the capability of defining which program rating they consider acceptable, to the younger or more sensitive viewer. It can be preset and turned either on or off by the user who specifies the secret 4-number code, the password. The number of hours blocked are specified. For complete coverage, General Audience and Children viewer blocks should both be programmed into the TV's memory. Viewer ratings are specified for both TV and the motion picture industry; both rating systems can be used. The ratings are based mainly on the ages of children.

Overview
To insure complete coverage for all TV programs, (movies and regular TV shows) choose a rating for "MPAA", from the selections below AND choose ratings from the "TV Parental Guideline Rating System" on the next page, using the Age Block option for General Audiences, and for Children. In addition to those, you may wish to include additional restrictions from the Content Block menu. See the Parental Control menu, and submenus example on the next page.

Things to Consider before Setting Up Parental Control
Determine which rating you consider acceptable to the viewer. (For example, if you choose TV-PG, all more restrictive ratings will be automatically blocked; the viewer will not be able to see: TV-PG, TV-14, or TV-MA rated programming.)

Do you want to block the auxiliary video source entirely? (Blocks the signal sent by the equipment, such as a VCR, connected to the TV Audio/Video input jacks; in the Aux. Block option.) Or leave unblocked, and have the restrictions you specified filter programming from the video source.

Block program "Content" based on individual parameters such as: Strong Dialog, Bad Language, Sex Scenes, Violence Scenes, or Fantasy Violence Scenes; in the Content Blk option.

How many hours do you want Parental Control to be active? You can set the Hours option for up to 99 hours.

Select a secret password; in the Set Password option. Use the NUMBER keys on the remote. Don't forget the password, it is the only way you can access the Parental Control menu and change rating selections, or turn Parental Control off.

Do you want Parental Control to be active all the time? If not, you can turn it on or off; with the Lock On/Off option.

You should set Parental Control viewing restrictions for General Audiences and for Children - - both should be active at the same time.

If you choose to leave the Aux inputs unblocked, the ratings you specify will still restrict the programming content that appears from the video sources.

Simply specifying one content block such as Sex Scenes, will not automatically block another content in the programs from appearing.

You cannot disable Parental Control by disconnecting the TV from power. Block hours will automatically reset to the original block time setting specified if power is disconnected.

Miniglossary
MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM

G	General Audiences	Content not offensive to most viewers.
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Guidance Suggested	Program is inappropriate for preteens, with a greater degree of offensive material than a PG rated program.
R	Restricted viewing	Not for children under age 17. Strong elements of sex and/or violence.
NC-17	Restricted Viewing	Not for children under age 17 under any circumstances. Strong sexual content.
X	Hard Core Films	Same as NC-17 rating.

Note: Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised.

After you have read the preceding page, follow instructions below to set up and activate Parental Control

1

```
┌─────────────────────────┐
│     PARENTAL CTRL       │
└─────────────────────────┘
```

AUX. BLOCK ▶	✓ UNBLOCKED
MPAA	BLOCKED
AGE BLOCK	
CONTENT BLK	
SET HOURS	
SET PASSWORD	
LOCK ON/OFF	

```
┌────────────────────────────────────┐
│ (MENU) NEXT MENU ⬍MOVE ▶NEXT │
└────────────────────────────────────┘
```

Follow These Instructions

Note: Use the remote control to set up Parental Control.

In the PARENTAL CONTROL menu, highlight the Content Block option, then press the RIGHT arrow.

Use the Up/Down arrow to select an option, like F. Violence (Fantasy Violence) for example, then press the Right arrow to go to the restrictions menu for Fantasy Violence.

Use the Up/Down arrow to select an acceptable rating like TV-Y7. *(See the Mini Glossary, Ratings Charts on this and the previous page for rating meanings.)*

Press the Left arrow to go back to select another Content Block classification like Language for example and then

choose an acceptable rating. Or, press the Left arrow repeatedly to return to the PARENTAL CONTROL menu to select and adjust other options.

After you have selected and adjusted the PARENTAL CONTROL menu options to your preferences, select and:
- Set the number of hours you want Parental Control on.
- Set your 4-number password
    - - use the NUMBERS on the remote.
- Set the Lock On/Off option to either on or off.

Press QUIT to remove menus from the screen.

No Rating, means the broadcast does not contain any rating information. Select the "No Rating" option and block it if appropriate.

Up Arrow ———
Left Arrow ———
Right Arrow
QUIT — Removes all menus from screen
Down Arrow
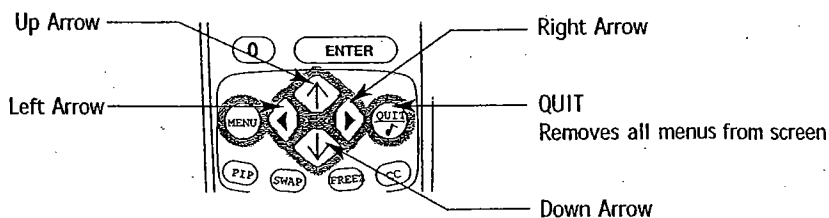
Mini Glossary

TV PARENTAL GUIDELINE RATING SYSTEM

TV-G	General Audience	Considered suitable for all audiences; children may watch unattended.
TV-PG	Parental Guidance Suggested	Unsuitable for younger children, may contain: Suggestive Dialog, Bad Language, Sex, and Violence Scenes.
TV-14	Parents Strongly Cautioned	Unsuitable for children under 14, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
TV-MA	Mature Audience Only	Adults only, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.

CHILDREN'S CLASSIFICATIONS

TV-Y	Children	Considered suitable for all children under 7 years old.
TV-Y7	Children 7 and over	Considered suitable for children over 7, may contain Fantasy Violence Scenes.

206-3802

PARENTAL CTRL

AUX. BLOCK ▶	✓ UNBLOCKED
MPAA	BLOCKED
AGE BLOCK	
CONTENT BLK	
SET HOURS	
SET PASSWORD	
LOCK ON/OFF	

(MENU) NEXT MENU ⬍ MOVE ▶ NEXT

PARENTAL CTRL

AUX. BLOCK	✓ UNBLOCKED
MPAA ▶	G and above
AGE BLOCK	PG and above
CONTENT BLK	PG-13 and above
SET HOURS	R
SET PASSWORD	NC-17
LOCK ON/OFF	X

⬍ MOVE ▶ NEXT (MENU) BACK

PARENTAL CTRL

AUX. BLOCK	
MPAA	TO SET
AGE BLOCK ▶	PRESS ▶
CONTENT BLK	
SET HOURS	
SET PASSWORD	
LOCK ON/OFF	

⬍ MOVE ▶ NEXT (MENU) BACK

GENERAL ▶	✓ UNBLOCKED
CHILDREN	TV-G and above
	TV-PG and above
	TV-14 and above
	TV-MA

| ✓ UNBLOCKED |
| TV-Y and above |
| TV-Y7 |

PARENTAL CTRL

AUX. BLOCK	
MPAA	TO SET
AGE BLOCK	PRESS ▶
CONTENT BLK ▶	
SET HOURS	
SET PASSWORD	
LOCK ON/OFF	

⬍ MOVE ▶ NEXT (MENU) BACK

DIALOG ▶	✓ UNBLOCKED
LANGUAGE	TV-PG and above
SEX SCENES	TV-13 and above
VIOLENCE	
F VIOLENCE	
NO RATING	

| ✓ UNBLOCKED |
| TV-PG and abo |
| TV-14 and abo |
| TV-MA |

| ✓ UNBLOCKED |
| TV-Y7 |

| ✓ UNBLOCKED |
| BLOCKED |

PARENTAL CTRL

AUX. BLOCK	
MPAA	
AGE BLOCK	
CONTENT BLK	⬍ 00 Hours
SET HOURS ▶	
SET PASSWORD	
LOCK ON/OFF	

⬍ MOVE ▶ NEXT (MENU) BACK

PARENTAL CTRL

AUX. BLOCK	
MPAA	
AGE BLOCK	
CONTENT BLK	TO SET ▶
SET HOURS	
SET PASSWORD ▶	
LOCK ON/OFF	

| ENTER CODE: |
| - - - - |

⬍ MOVE ▶ NEXT (MENU) BACK

PARENTAL CTRL

AUX. BLOCK	
MPAA	
AGE BLOCK	
CONTENT BLK	
SET HOURS	✓ ON
SET PASSWORD	OFF
LOCK ON/OFF ▶	

⬍ MOVE ▶ NEXT (MENU) BACK

206-3802

Set the Sleep Timer to automatically turn the TV off, after the preset time has expired
Set the On/Off Timer to turn the TV on and off each day at the specified time

```
┌──────────────────────────┐
│        SPECIAL           │
└──────────────────────────┘

 ┌──────────────────────┬──────────────┐
 │ [icons]  EZ TIMER  ▶ │ TO SET TIMERS │
 │          CH. LABELS  │              │
 │          XDS DISPLAY │              │
 │          PIP MENU    │              │
 │          EZ DEMO     │              │
 │          EZ HELP     │              │
 └──────────────────────┴──────────────┘
```

```
┌──────────────────────────┐
│        EZ TIMER          │
└──────────────────────────┘

 ┌──────────────────┬──────────────────┐
 │ SLEEP TIMER      │                  │
 │ ON TIME       ▶  │ 8:00 ✓AM ◄─FLSHBK │
 │ OFF TIME         │         PM       │
 │ ON/OFF TIM.      │                  │
 └──────────────────┴──────────────────┘
```

```
┌─────────────────────────────────┐
│ (MENU) NEXT MENU ⬍ MOVE ▶ NEXT  │
└─────────────────────────────────┘
```

```
┌──────────────────────────────────┐
│ ⬍ MOVE ▶ NEXT (MENU) BACK        │
└──────────────────────────────────┘
```

Sleep Timer Direct Access

1 Press TIMER to place the Sleep Timer menu on the screen. Press TIMER repeatedly to scroll through the different sleep timer settings and choose one of the preset turn-off times. Options are: Off, 10, 20, 30, 60, 90, 120, 180, or 240 minutes. You can also set the Sleep Timer by using the menu.

Using the EZ Timer Menu

On Time
With the EZ Timer menu selected, use Up/Down arrows to choose On Time, then press the Right arrow.

Use the NUMBER keypad or the Left/Right arrows to pick a time for the TV to automatically turn itself on each day. Use FLASHBK to set AM or PM.

Off Time
With the EZ Timer menu selected, use Up/Down arrows to choose Off Time, then press the Right arrow.

Use the number keypad or the Left/Right arrows to pick a time for the TV to automatically turn itself off each day. Use FLSHBK to set AM or PM.

On/Off Timer
With the EZ Timer menu selected, use Up/Down arrows to choose On/Off Timer, then press the Right arrow.
Choose either:
On-TV will automatically turn itself on and off each day at the specified times.
Off-TV will not turn itself on and off each day, but the turn on and turn off times will be retained in memory for future use.

2 Press QUIT to return to TV viewing.

206-3802
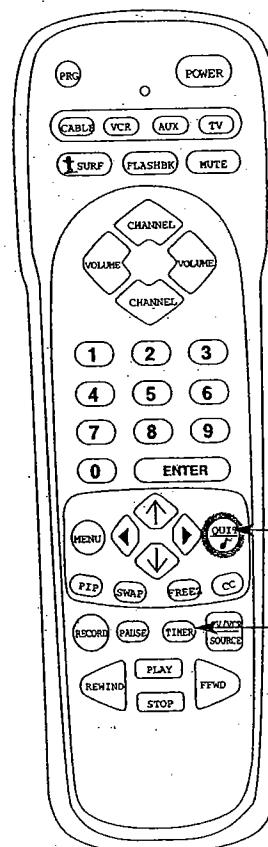
Pick a preset label to help identify the network you just tuned to or are currently watching

```
                                    ┌──────────────────────────┐
                                    │        SPECIAL           │
                                    └──────────────────────────┘
  ┌─────────────────────┐         ┌──────────────────────────────────────┐
  │                     │         │  EZ TIMER                            │
  │     CH 32-UPN       │         │  CH. LABELS    ▶  CH  20    USA      │
  │       2:45 PM       │         │  XDS DISPLAY                         │
  │      STEREO         │         │  PIP MENU                            │
  │    ─────────        │         │  EZ DEMO                             │
  │    PIP              │         │  EZ HELP                             │
  │    CH 2-CBS         │         │                                      │
  └─────────────────────┘         │                                      │
   Closed Captions scroll across  └──────────────────────────────────────┘
   the screen as an aid to viewers
   and the hearing impaired....
```
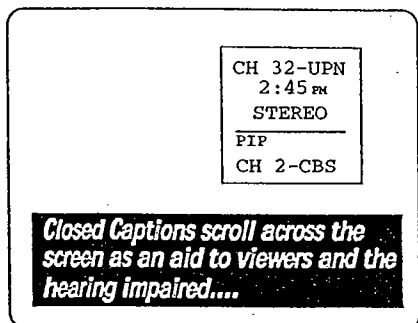
Channel/Time Display with Channel Labels
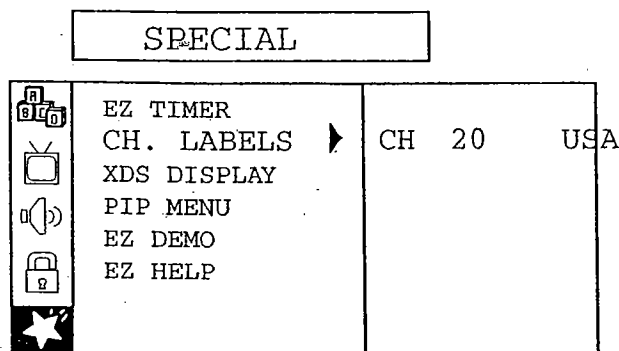
(MENU) NEXT   MENU ⬍ MOVE   ▶NEXT

1 Using the NUMBER keypad or the CHANNEL Up/Down arrow, pick the channel you want to label.

2 Press MENU repeatedly to choose the Special menu.

3 Use the Up/Down arrow to select CH. LABELS, then press the Right arrow.

Select a Label for the Channel

4 Press the Down arrow key (each press will bring up a different label) to go through the alphabetical listing, starting with A - B - C - D, etc.
Or, use the Up arrow key to go through the alphabetical listing backwards, starting with Z - Y - X - W, etc.
- - - - Broadcaster's label will appear if one is provided.

5 Press QUIT to accept the label and return to regular TV viewing or use the NUMBER keypad to select another channel and repeat from Step 2.

😊 *If a channel label is picked, the Channel Label for the channel you are watching appears when you press ENTER or change to a different channel that also has a channel label, a convenient way to know which network you are viewing.*

😊 *Some networks display their own channel labels.*

☹ *Channel Labels do not appear for video sources.*
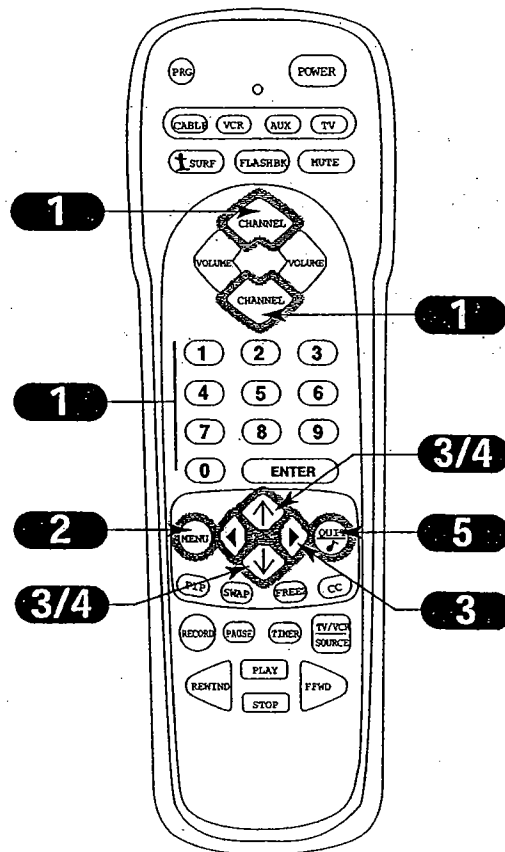
Mini-glossary

- - - -   Allows a label to appear if one is provided by the broadcaster.

None   This label prevents any labels from appearing.

Use the Extended Data Service to show in-depth program information
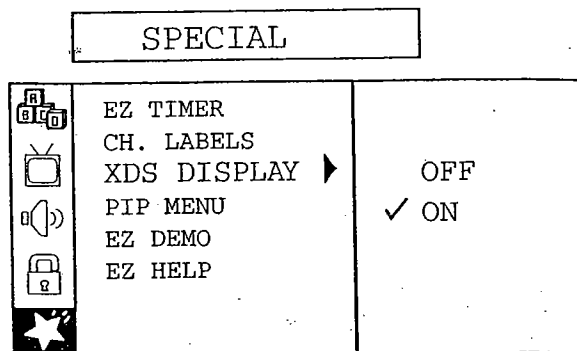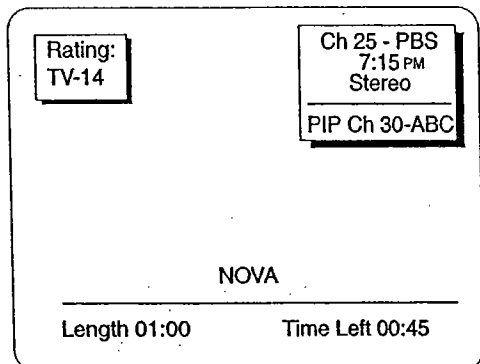
```
                                          SPECIAL
```

```
  Rating:           Ch 25 - PBS
  TV-14               7:15 PM
                      Stereo

                    PIP Ch 30-ABC
```

```
                                     EZ TIMER
                                     CH. LABELS
                                     XDS DISPLAY  ▶      OFF
                                     PIP MENU           ✓ ON
                                     EZ DEMO
                                     EZ HELP
```

```
                NOVA

  Length 01:00       Time Left 00:45
```

```
  (MENU) NEXT  MENU ⬍ MOVE  ▶ NEXT
```

1 Press MENU repeatedly to select the SPECIAL menu on your screen.

2 Use the Up/Down arrow to select the XDS DISPLAY option, then press the Right arrow.

3 Use the Up/Down arrow to choose: On, or Off.
On, XDS Display will appear as channels are changed or ENTER is pressed,
Off, XDS Display will not appear.

4 Press QUIT to remove the menu and return to TV viewing.

At this printing, XDS data is only being provided by some broadcasting stations, and, as a result, may only available on some channels.

Even though XDS data may be present, it may not be available during commercial or network breaks.

XDS	Extended Data Service - - if provided by the broadcaster, may show some or all of the following information: Channel/Time/Audio display, Network label if present, Title of program, Length of program in hours and minutes, and the Time remaining on the program in hours and minutes, Program content rating and if PIP is active, the PIP channel number.

206-3802

Customize the PIP inset appearance and size
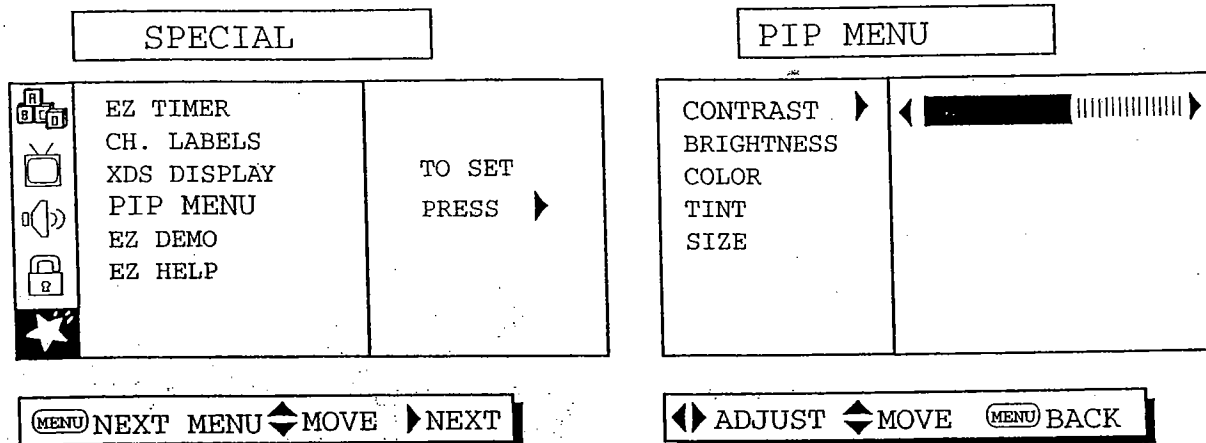
```
┌─────────────────────────┐        ┌─────────────────────────┐
│        SPECIAL          │        │        PIP MENU         │
└─────────────────────────┘        └─────────────────────────┘
```

SPECIAL		PIP MENU	
EZ TIMER		CONTRAST ▶	◀ ███████ ‖‖‖‖‖‖‖‖‖‖‖ ▶
CH. LABELS		BRIGHTNESS	
XDS DISPLAY	TO SET	COLOR	
PIP MENU	PRESS ▶	TINT	
EZ DEMO		SIZE	
EZ HELP			

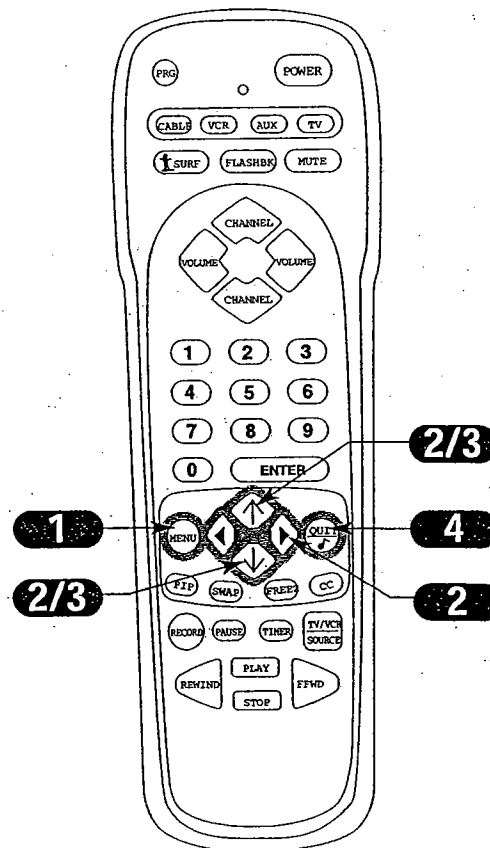(MENU) NEXT MENU⬍MOVE ▶NEXT   ◀▶ADJUST ⬍MOVE (MENU)BACK

1 Press MENU repeatedly to select the SPECIAL menu on your screen.

2 Use the Up/Down arrow to highlight the PIP MENU option, then press the Right arrow.

3 Use the Up/Down/Left/Right arrows to select and change the PIP menu options.
- **Contrast:** Changes the amount of difference between black levels and white levels in your picture.
- **Brightness:** Increases or decreases the amount of white in your picture.
- **Color:** Adjusts levels of all colors.
- **Tint:** Adjusts the relative amounts of the colors red and green in your picture.
- **Size:** Selects the PIP inset picture size. Options are: Large, Small.

4 Press QUIT to remove menu and return to TV viewing.

Turn to the next page for a more detailed description of the PIP feature.
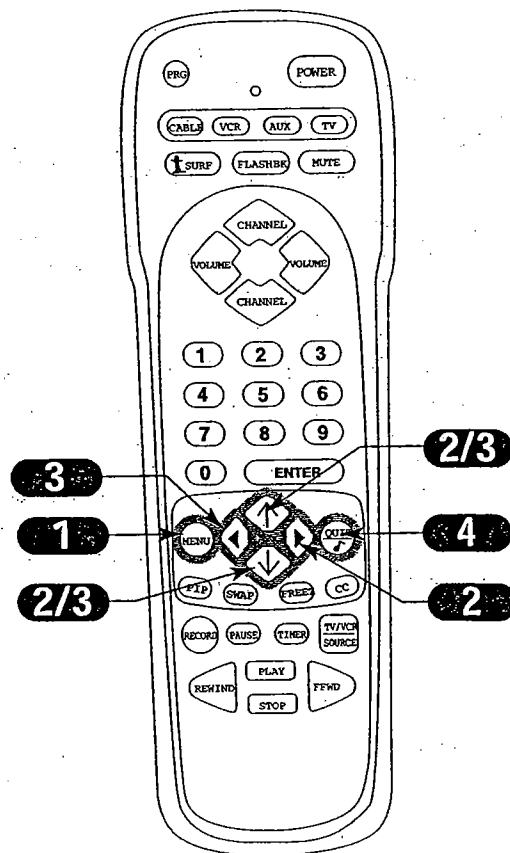
PIP = Picture-In-Picture
Think of PIP as a mini TV screen superimposed onto your main TV screen
Press PIP on the remote to place the PIP inset on the screen, press PIP again to remove it

YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture.

You need some other piece of equipment, like a VCR, to act as a tuner to receive and display a second channel at the same time. With the additional tuner source, like a VCR, PIP is available.

WORKING WITH PIP

Just like your Entertainment Machine's main screen, PIP will need a source to take its image from. Set the main screen source to Antenna/Cable, then set the PIP source to Video 1 where you have a VCR connected, as an example. Then if you use the TV's tuner to pick your channels, you can enjoy TV channel tuning on the main screen and a tape playing in the VCR in the PIP inset.

PIP will need a source from which to take its image.Put Antenna/Cable in the inset while you watch a video tape, from a VCR connected to Video 1. Have a DVD disk playing in the PIP inset, while you watch a videotape on the main screen.

PIP Inset Picture   **Main Picture**

SOME TYPICAL PIP/MAIN SCREEN VIEWING SETUPS

1. You want to watch a videotape, but keep scanning for another movie or game. Set the PIP source to Video 1, or 2 and you can watch the VCR and TV, swapping between the two.
2. You want to watch your favorite live program on Antenna/Cable on the main picture and when a commercial break appears, swap to the PIP inset; which has a videotape in the VCR ready to play, or Surf your favorite channels on Antenna/Cable source for the PIP inset.

SETUP			SOURCE MENU	
EZ PROGRAM			MAIN SOURCE ▶	✓ ANTENNA/CABLE
ADD/DEL/SURF			PIP SOURCE ▶	VIDEO 1
EZ CLOCK	TO SET			VIDEO 2
CAPTIONS	PRESS ▶			
CAPTION/TEXT				
LANGUAGE				
SOURCE MENU				

`⊕ NEXT MENU ⇕ MOVE ▶ NEXT`   `⇕ MOVE ⊕ BACK`

Use the Source Menu to choose Main screen and PIP sources.

If no equipment is connected to a source you select for the PIP inset, or if it is turned off, the PIP inset will be black.

Mini glossary

TUNER	A device that picks up broadcast signals and turns them into picture and sound.
A/V SOURCE	Other equipment connected to the TV Audio/Video source inputs on the TV back and Front connections panel; Video 1, or Video 2.

Using Picture-in-Picture (PIP) features

PIP Inset Picture
Press PIP to turn PIP on and off.

Move PIP Around Screen
Press Up/Down/Right/Left arrows to move the PIP inset to the other corners of the screen.

Main Screen Picture
With PIP off, press FREEZ to place the Main screen picture in the PIP inset and "freeze" the image thereby turning PIP on. *(A good way to freeze the image so you can write down phone numbers etc.)*

Channel/Time/Audio Source Display
Press ENTER to show display. Shows source for: Main picture, PIP.

PIP Source
Can be ANTENNA/CABLE, Video 1, or Video 2. (Use the Setup Menu.)

Swap Main Picture with PIP
Press the SWAP repeatedly to swap the images between the Main picture and PIP inset.

Main Picture Source
Press TV/VCR SOURCE to change the source to ANTENNA/CABLE, Video 1, or Video 2. (Or, use the Setup Menu.)
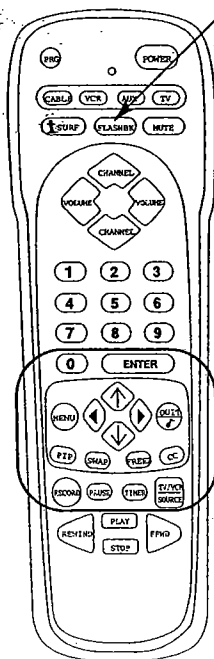
FLASHBK (FLASHBACK)
Returns to the last channel viewed.

ENTER
Shows Channel/Time Display on Main screen.

Up/Down/Left/Right Arrows
UP/DOWN ARROWS
Move PIP inset around screen.
LEFT/RIGHT ARROWS
Move PIP inset around screen.

QUIT
Exits menus.

FREEZ
PIP On: Freezes image in PIP inset.
PIP Off: Freezes Main screen picture in PIP inset and turns PIP on.

TV/VCR SOURCE
Chooses viewing sources.

SWAP
Swap Main and PIP sources

PIP
Turns PIP on and off.

Your Entertainment Machine can show you the menus available

```
┌─────────────────────────────────┐
│           SPECIAL               │
├──────────┬──────────────────────┤
│ EZ TIMER                        │
│ CH. LABELS                      │
│ XDS DISPLAY                     │
│ PIP MENU                        │
│ EZ DEMO        ▶    ✓ OFF       │
│ EZ HELP               ON        │
└─────────────────────────────────┘
```
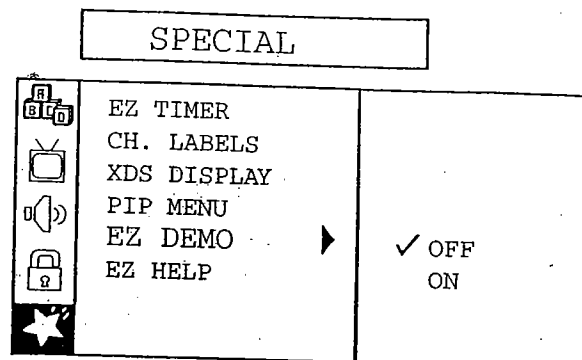
(MENU) NEXT MENU ⬍ MOVE ▶NEXT

1 Press MENU repeatedly to select the SPECIAL menu.

2 Use the Up/Down arrow to select the EZ DEMO option, then press the Right arrow.

3 Use the Up/Down arrow to choose either:
On; then press ENTER. EZ Demo will continue to run *(even if the TV is turned off and on again)* until it is turned off in the SPECIAL menu.
Off; EZ Demo will not be active.

4 Press QUIT to remove menu and to return to TV viewing.

Even if the TV is turned off, the EZ Demo feature will continue to operate when the TV is turned on again.

The only way to turn EZ Demo off is to select Off, in the SPECIAL menu.
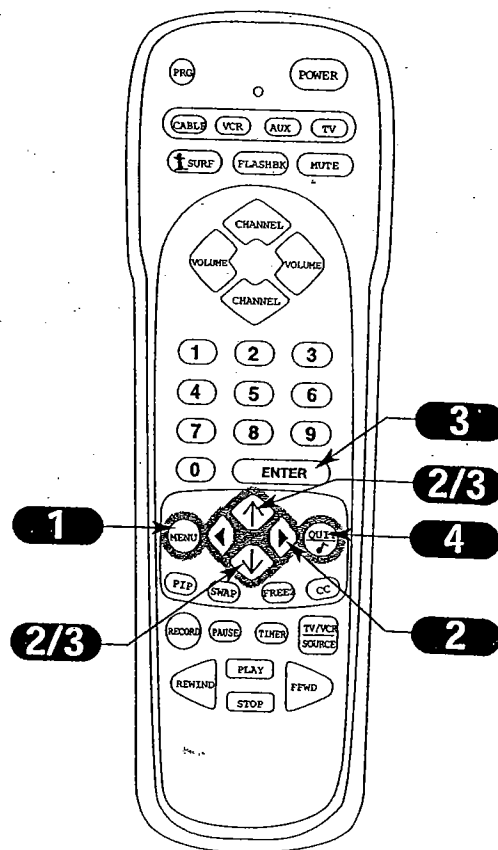
Mini glossary

EZ DEMO   Feature provides an automatic demonstration of the on-screen menus on your Entertainment Machine.

View and learn what features are available to you as EZ Demo cycles through the on-screen menus.

206-3802

```
┌─────────────────────────────┐
│         SPECIAL             │
└─────────────────────────────┘
```

[icon]	EZ TIMER	
[tv icon]	CH. LABELS	
[speaker icon]	XDS DISPLAY	TO SET
	PIP MENU	PRESS ▶
[lock icon]	EZ DEMO	
[star icon]	EZ HELP	

```
┌─────────────────────────────────────┐
│ (MENU) NEXT MENU ⬆ MOVE ▶ NEXT      │
└─────────────────────────────────────┘
```

Need Help?
Go to the on-screen EZ Help menu and use it to solve the problems listed below
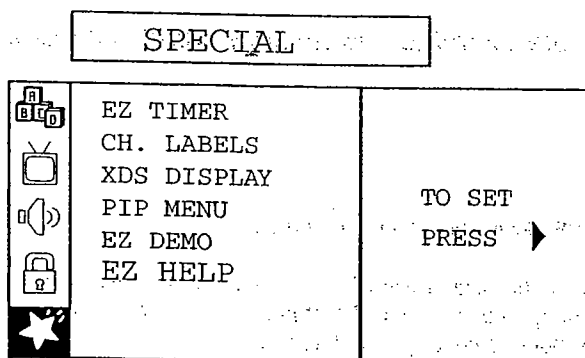
1 Press MENU repeatedly to select the SPECIAL menu on your screen.

2 Use the Up/Down arrow to select the EZ HELP option, then press the Right arrow.

3 Use the (Up/Down/Right/Left arrow keys) as described on-screen to select the options below and correct the problem.

- If you do not have any watchable channels:
   Do a channel search.
- If you want to add or delete a channel:
   Adds or Deletes channels.
- If your screen is stained:
   Use Degaussing.
- If you have a color problem:
   Use viewing option for picture setting.
- If there is a volume difference between channels:
   Turn on Soundrite so sound level is maintained.
- If there is noise in picture or picture is shaky:
   Message shows some common problem solutions.

4 Press QUIT to remove the menu and return to TV viewing.
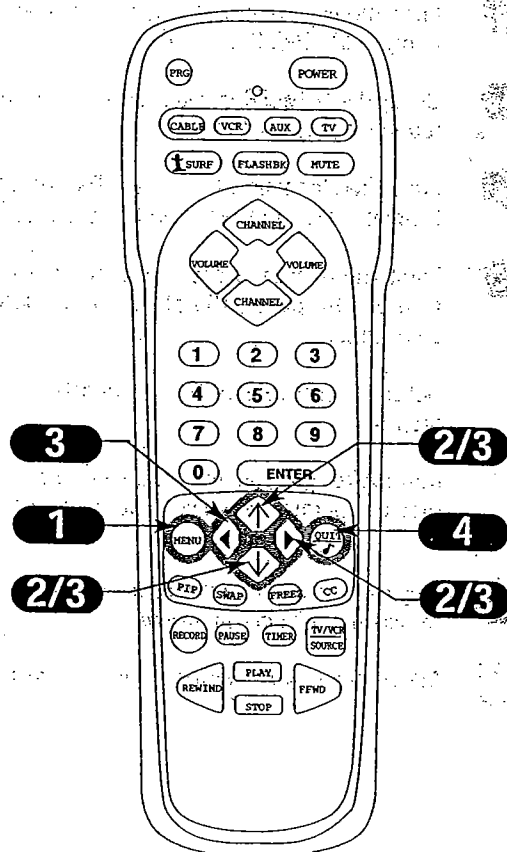
[smiley icon] *EZ Help offers solutions to common problems on one convenient menu.*

Set up your remote control to operate other brand name devices

1 Turn on the device you want to program.

2 On the chart on page 42/43, find the type of device you're programming, and then find the brand name. Make a note of the three-number code, you'll need it soon.

3 Press and hold PRG. It's recessed so it doesn't get pushed accidentally. Use a small, blunt object. When the indicator light turns on, you can release PRG.

4 Push the key name with the type of device you're programming (VCR, CABLE, AUX, TV).

5 Using the NUMBER keypad, enter the three-number code you found on page 42/43.

6 Press ENTER to save the code. (The indicator light will flash 3 times, then turn off to indicate the code is valid.)

7 Point the remote at the device and push POWER. It should turn off. If not, try the other codes listed and continue from step three.

Note: To reset remote to factory settings, enter 9-1-1, in Step 5.

Note: After programming, be sure to press the mode key first to operate the device you have just programmed.

🙂 Programming your Zenith remote may allow you to use one remote to work up to 7 different devices.

🙁 Not all devices will work with your Zenith remote control.
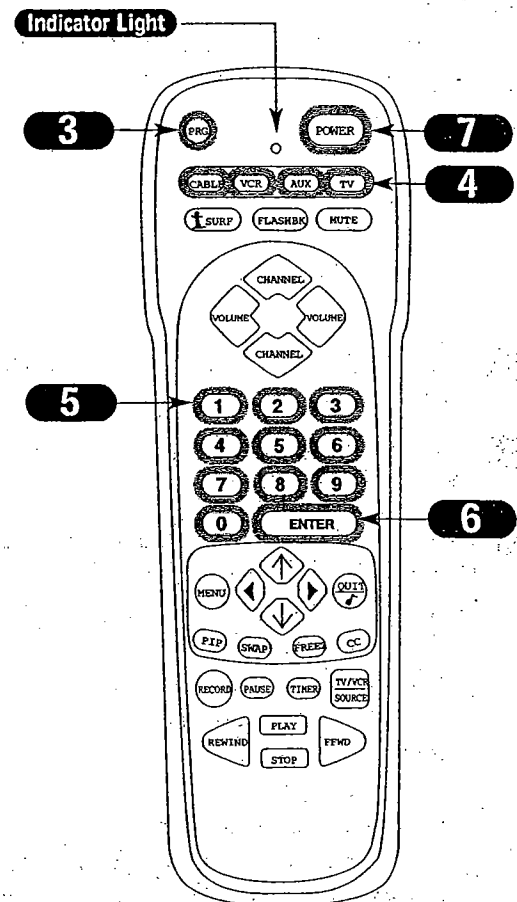
Mini-glossary

PROGRAMMING	Procedure to set up remote to operate other equipment.
PRG	Programming mode key.
DEVICE	Infra-red remote controllable electronic accessory equipment.

206-3802

Control the volume on your home audio system without changing modes

1 Find the code that operates your amplifier. Test it to make sure it's the correct one by following the procedure in "Programming Your Remote" on the previous page.

2 Program your audio system into one of the available AUX modes: Aux, Aux+1, Aux+2, or Aux+3.

3 Press and hold PRG on your remote until the indicator light stays lit, then release.

4 Press 4-9-9; then ENTER on the remote. The indicator light will flash three times the code was accepted.

Audio system volume/mute now appears in all modes. Note: You can also program Cable Box Volume and Mute control (if available) into your cable box mode (CABLE or AUX mode) by repeating the steps for programming on the previous page but entering 3-9-9, instead of a brand code, then pressing ENTER.

☺ *To put everything back to normal, reprogram the mode from Step 3 with the original brand code.*

☺ *If you can't find the code for your amplifier, use the Auto Find feature on page 41.*
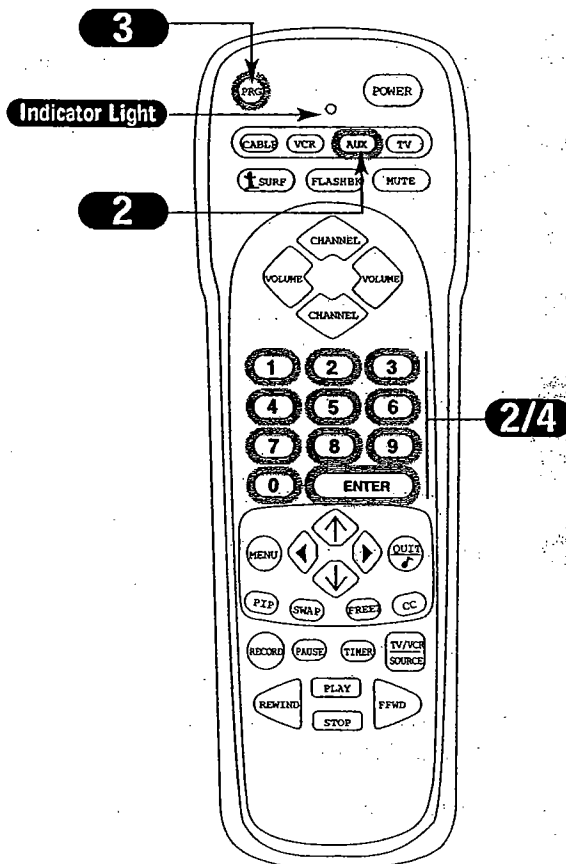
Mini-glossary	
AMPLIFIER	Audio device which sends sound to speakers, like an Audio Tuner, Receiver, or Amplifier. See Audio Tuners/Amp list on page 43.
CABLE BOX VOLUME/MUTE	Some cable boxes have volume controls.

Control up to seven different devices with your remote

Indicator Light

1   Refer to the chart on page 42/43 to find the type and brand name of the device you're programming.

2   Press and hold down PRG with a small blunt object until the indicator light turns on, then release PRG.

3   Press AUX and the 1 on the NUMBER keypad at the same time (for AUX +1).

4   Using the NUMBER keypad, enter the three-number code for the device you've selected.

5   Press ENTER to save the code.

6   With the device turned on, point the remote at it and press POWER. It should turn off.

7   Repeat the steps for AUX+2, and AUX+3.

:)   Programming your Zenith remote may allow you to use one remote to work up to 7 different products or devices.

:(Some devices may not work with your Zenith remote control.
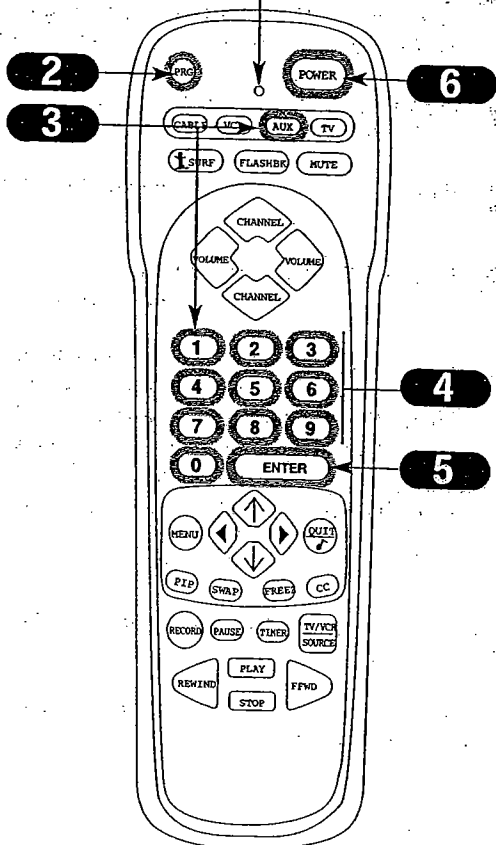
Mini-glossary

AUX   Auxiliary equipment. Can be any equipment which does not have a dedicated key on your remote like Cable or VCR. Typically a second VCR, stereo system, audio tape deck, etc.

206-3802

Use Auto Find to automatically search and try all possible brand codes

1 Turn on the device you want the remote to control.

2 Press and hold PRG until the indicator light turns on, then release PRG.

3 Press the key for the device you are trying to program (CABLE, VCR, AUX, TV).

4 Press 0-0-0 (zero-zero-zero), then press ENTER right away.

5 Aim the remote at the correct device and push the POWER key (The indicator light will turn off while the POWER key is pressed). Allow a second to pass, then push the POWER key again. Repeat until the device turns off.

6 Push ENTER to save the code (The indicator light will flash 3 times and then turn off).

7 Press POWER to turn the device back on.

You can quickly get out of Auto Find by pressing PRG.

If the indicator light stays on while you press Power instead of turning off, all the codes have been tried and your device can't be controlled.

2

Indicator Light

5/7

3

4

4/6
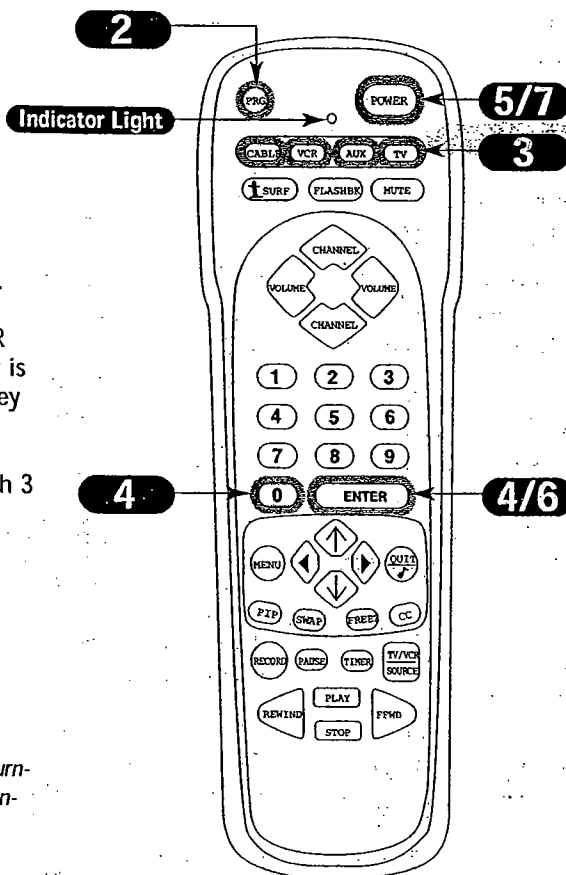
Mini glossary	
AUTO FIND	Another way of finding a brand code for controlling auxiliary equipment such as a VCR, DVD player, etc. that is not available through the regular remote brand code programming method.

Find the codes you need to program your remote. On this page: TVs, VCRs, and Cable Boxes

TVs

Admiral 121	Lodgent. 121	Signature 2000 . . . 121	Funai TV/VCR. . . . 154
Bell & Howell 121	Logik 121	XR-1000 121	Goldstar TV/VCR . . 153 172
Citizen 121	Majestic 121	Zenith 101 121 149	Symphonic TV/VCR 154
Curtis Mathis 121	Memorex 121	152	Zenith TV/VCR . . . 150 153 154
Daewoo 149	Montgomery Ward . 121	**TV/VCR Combination Codes**	172
Elektra 121	Teknika 121	Adventura TV/VCR . 154	
Kurazi 121	Telerent. 121	Daewoo TV/VCR . . 148	

VCRs

Admiral 261	General Electric . . 216 220 266	MultiTech. 727	Samsung 220 230
Akai 292 717 718	282 701 702	NEC 267 268 269	Sansui 289 292 709
719 720	725	281 292 709	726
Audio Dynamics . . 726	Go Video 256 262 263	726	Sanyo 212 247 294
Bell & Howell 247	700	Orion 250	Scott 243 290 729
Broksonic 221 250 255	Goldstar 253	Panasonic 245 251 259	Sears 211 212 213
729	Harmon Kardon . . . 296	713 714 715	265 274
Candle 727	Hitachi 257 270 273	716	Sharp 261 730
Canon 704	292 705 706	Pentax 708 727	Signature 2000 . . . 216 219 249
Capeheart 728	707 708	Philco 275	Sony 232 723 724
Citizen 727	J.C. Penny 268 726	Pioneer 210 282 726	Sylvania 275 297
Craig 212	Jensen 292	Portland 246 727	Tatung 268 292
Curtis Mathes . . . 259 266 725	JVC 224 225 258	ProScan 216 260 266	Teac 268
727	268 292 299	282 725	Teknika 272
Daewoo 244 246 248	726	Quasar 259 295	Toshiba 213 274 290
254 703 729	Kenwood 268 292 726	Radio Shack 213 265 730	297
Daytron 246	727	RCA 216 220 228	Vector Research . . 726 727
DBX 726	Magnavox 275	240 242 249	Victor 726
Electrochrome. . . . 730	Marantz 267 268 726	260 266 282	Video Concepts . . . 726 727
Emerson 203 221 243	727	283 284 285	XR - 1000 243
250 293 721	Memorex 212 298	286 287 288	Yamaha 726
722 729 730	MGA 297 730	708 710 711	Zenith 201 224 225
731 732	Mitsubishi 276 277 278	725	229
Fisher 211 212 213	279 280 296	Realistic 212 213 265	
247 265 274	297 730	730	
	Montgomery Ward 216 219 249	Saisho. 722	
	291 730	Salora 297	

Cable Boxes

Allegro 358 362		365 366	Teleview 326
Allegro A-B Switch 361	Jasco 325	355	Texscan 339 356 371
Archer 325	Jerrold 304 307 308	Pioneer 315 343	Tocom 317 318 346
Century 325	309 310 318	RCA 341	Unika 325 348 362
Citizen 325	360 363	Regency 329	Universal 325 358 362
Comtronic 326	Kale Vision 335	Samsung 326 335	Vid Tech 340
Garrard 325	Macom 321	Scientific Atlanta 316 323 336	Video Way 349
Gemini 305 331 338	Magnavox 327 334	337 364	Viewstar 327 354 355
General Electric. . . 367	NSC 335 339 368	Signal 326	372
General Instrument 304 305 306	369 370	SL Marx 326	Zenith HT-2000. . . 353
307 308 309	Oak 311 332 342	Sprucer 313	Zenith PM 374
310 318	Panasonic 313 320	Standard Comp . . . 335	
Hamlin 302 303 345	Philips 325 327 347	Stargate 326 379	
	350 352 354		

206-3802

Find the codes you need to program your remote.
On this page: Cable, Satellite, CD Players, Tape Decks and Audio Tuners and Amplifiers.

Satelite Receivers

Alphastar........516	Hughes Network ..514	RCA 510 517	Toshiba........509 512
Chaparral.......501 502	JVC 518	Realistic 506	Uniden 522
Cheyenne.......502	Macom 314	Sierra I.........502	United 344
Dishnet........515	Magnavox 521	Sierra II 502	Zenith Drake.....312 330
Drake 503	Phillips........521	Sierra III........502	Zenith Satellite ..328 351 378
General Electric...510 517	PrimeStar.......513	Sony.........511	500
General Instrument 504 505	ProScan........510 517	STS1..........507	
Hitachi 519 520	RCA DSS 373	STS3..........508	

DVD Players

JVC 965	Pioneer........963	Toshiba........961	
Mitsubushi......964	Sony..........962	Zenith.........960	

Audio CD Players

ADC 940	JVC 949 954	Panasonic 431 432 945	Sony..........420 443 444
ADO 939	Kenwood 441 931 948	Phillips.........421 433 434	445 934
Aiwa..........938	Luxman........930	Pioneer........431 435 944	Soundesign 461 498 901
Akai 937	Magnavox 421 422 433	Quasar 432	902
Denon 935	434	Radio Shack.....431 441	Sylvania 433
Dynatech.......953	Marantz........929 947	RCA 437 943	Teac 418 419
Emerson 952	MCS 928	Sanyo.........438 439	Technics 432
Fisher.........438 933 951	Mitsubishi......927	Sears 936	Toshiba........915
GE 932	Nakamichi 925 926	Sharp 441 442	Yahama........414 941 942
Goldstar 460	Onkyo 923 924 946	Sherwood 449	Zenith 460 461 498
Hitachi 950	Optimus 920 921 922		901 902

Audio Tape Decks

Sony..........452

Audio Tuners/Amps

Citizen 914	Marantz........903 913	Pioneer.........470 485 907	Soundesign 461 498 901
GE 916	Memorex 485	Proton 910	902
Goldstar 460 474	Nad 904	Quasar 912	Toshiba........915
Hitachi 919	Nakamichi 493	RCA 909	Techniques......912
JVC 908	Onkyo 471 906	Sharp 483 917 918	Victor.........908
Kenwood 484	Optimus 905	Sherwood 900	Zenith 460 461 498
Luxman........467	Panasonic 912	Sony..........486 489 490	901 902
		491 492	

A complete list of key functions for your remote control

KEY NAME	TV Mode Zenith Code 101	VCR Mode Zenith Code 201	Cable Mode Zenith Code 353	AUX Mode Zenith Code 960
PRG	Program Mode Codes	Program Mode Codes	Program Mode Codes	Program Mode Codes
POWER	TV On/Off	VCR On/Off	Cable Box On/Off	AUX On/Off
CABLE	Selects Cable	Selects Cable	Selects Cable	Selects Cable
VCR	Selects VCR	Selects VCR	Selects VCR	Selects VCR
AUX	Selects AUX	Selects AUX	Selects AUX	Selects AUX
TV	Selects TV	Selects TV	Selects TV	Selects TV
Surf	Channel Preview	VCR SP/EP	Cable FC/Fav Ch	AUX Audio
FLASHBK	TV Flashback	VCR Flashback	Cable Flashback	AUX Return
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
CHANNEL UP	TV Channel Up	VCR Channel Up	Cable Channel Up	AUX Skip >>
CHANNEL DOWN	TV Channel Down	VCR Channel Down	Cable Channel Down	AUX Skip <<
VOLUME (RIGHT)	TV Volume Up	TV Volume Up	TV Volume Up	TV Volume Up
VOLUME (LEFT)	TV Volume Down	TV Volume Down	TV Volume Down	TV Volume Down
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 Menu
UP ARROW	TV Select Up	VCR Select Up	Cable Up Arrow	AUX Up Arrow
DOWN ARROW	TV Select Down	VCR Select Down	Cable Down Arrow	AUX Down Arrow
LEFT ARROW	TV Adjust Left	VCR Adjust Left	Cable Left Arrow	AUX Title
RIGHT ARROW	TV Adjust Right	VCR Adjust Right	Cable Right Arrow	AUX Sub-Title
QUIT/(Note)	TV Surr Sound	VCR Quit	Cable Quit	AUX Resume
PIP	TV PIP	VCR+	Day Up	AUX Marker
SWAP	TV PIP Swap	VCR Eject Tape	Day Down	AUX Marker Search
FREEZ	TV PIP Freeze	VCR Commercial Skip	Cable Page Up	AUX Repeat-Chap
CC	TV Closed Captions	VCR Memory	Cable Page Down	AUX Repeat A-B
TIMER	TV Timer	VCR Timer	Cable Timer	AUX Program
TV/VCR/SOURCE	TV Sources	TV Tuner or VCR Tuner	Cable Info	AUX Open/Close
RECORD	VCR Record	VCR Record	Cable Buy	AUX Angle
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 >>

References: MBR3457CT, 124-233-05 and µP 221-1445-02

Some of the functions shown above may not be available on your equipment.

206-3802

Caring for your Entertainment Machine

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the plug before you begin any cleaning.

Screen Cleaning

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

Cabinet Cleaning

1. Use a soft cloth with a mild soap solution to wipe the cabinet.

2. Rinse the cloth and wipe the cabinet again.

3. Let the cabinet air-dry before turning your Entertainment Machine on.

Wood Cabinet

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

Extended Absence

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.

If you unplug your Zenith Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier. See page 21.

Some quick and easy tips to fixing problems yourself

SYMPTOMS	SOLUTIONS
Snowy picture and poor sound.	• Check your antenna connection or location.
Multiple images or 'ghost shadows.'	• Check your antenna direction and/or location. • Make sure the wire from your antenna to your Entertainment Machine is properly connected.
Interference: Sharp lines across the screen and poor sound.	*The following may cause image problems or distortion:* *Electrical appliances, powerful lights, cars, trucks; computers or* *portable phones; medical equipment* • If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off.
Normal picture but no sound.	• Check volume levels. • Make sure the TV is not muted. • Try another channel. The problem may be the broadcast, not your Entertainment Machine. • Are the Audio A/V cables properly installed?
No picture and poor sound.	• Are you in TV or cable tuning mode, and should be in the other? • Make sure output channels on all A/V equipment are on the same channel (3 or 4). • Check that all connections are tight.
No picture and no sound.	• Is the AC power plugged in? • Check that your AC power outlet works. (Test it by plugging in something else or try another plug.) • Make sure your brightness and audio controls are set properly. • Try another channel. The problem may be with the broadcast.
No color, but the sound is O.K.	• Check the color control in the Video menu. • Try another channel. The problem may be with the broadcast.
Picture has a big black box on it, but the sound is O.K.	• Is Text model selected but no text is available on the broadcast? • The CC (closed caption) option may be in Text mode. Select OFF in the Captions menu (see page 22).
Picture has two horizontal black bars, one on top and one on bottom.	• Your program is in letterbox. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in movies, you are actually seeing MORE of the program when you see those bars.
Remote control doesn't work.	• Make sure the batteries are fresh and installed properly. Does indicator light work, is it nice and bright? • Is remote in TV mode? Press TV for TV mode.
Menu options can't be changed or selected.	• Try unplugging your Entertainment Machine for a few minutes, then plug it back in. (Don't forget to reset the clock.)
No picture or sound when a non-cable source is selected.	• Check to see if the source equipment has been turned on. • Make sure that the connections are secure on the back of your TV and on the source.

206-3802

SYMPTOMS	SOLUTIONS
Weak or no Stereo Sound when using a stereo VCR.	• Check to see if all the connections are secure. • Look in the Audio menu to see if all the settings are correct.
With no key presses, on-screen menus continue to appear.	• EZ Demo feature is operating. Turn EZ Demo off in the SPECIAL menu.

PIP Problems

PIP does not work.	• Is Parental Control set to block programming?
The PIP inset is black or lacks contrast when VIDEO is the PIP source.	• Check that all the wires are connected properly. • PIP source turned on?
The PIP inset is "snow" when the source is Video.	• Look to see if the TV/VCR button on your VCR has the TV selected.
There is no picture in the PIP inset when using VIDEO for the PIP and Antenna/Cable for the main picture.	• Look to see if the TV/VCR button on your VCR has the TV selected.

Parental Control Problems

Can't tune to programs listed in TV guide.	• Is Block option not allowing programs to appear? • Parental Control set to block rating?
Parental Control doesn't work.	• Has Block Time expired? Lock On/Off turned Off? No hours set?
Can't watch TV or VCR.	• Is Parental Control block on? Are Aux inputs blocked? Do you know the password to unblock Parental Control?
Programs with a rating of PG-13, R, NC-17, and X do not appear.	• Is Parental Control set to block programs with those ratings.
Can't view TV-PG program.	• Is TV-PG set to be blocked in Parental Control? Reset restrictions to PG-13, then TV-PG rated programs will appear.
TV turns itself off, or on by itself.	• Sleep Timer set to turn TV off. • Is the On/Off Timer set to turn TV on and off at preset times? • Power Failure?

206-3802

Some quick and easy tips to fixing problems yourself

SYMPTOMS	SOLUTIONS
Channel/Time Display does not disappear after a period of time.	• Display will not function properly if a selected source does not have any equipment connected to it.
EZ Help menu shows only two options.	• A Video source is the selected source. Main screen source has four EZ Help options.

206-3802

A list of definitions for some of the words found in this operating guide

A/V CABLES
Audio and Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of video-cassettes and for higher quality picture and sound from other A/V devices.

A/V DEVICE
Equipment that produces picture and sound (VCR, DVD, cable box, or television).

ADDED
Includes channels that you want to watch in addition to the channels found by EZ Program.

AMPLIFIER
An external device that amplifies sound from a television, CD player, VCR, DVD, etc.

ANTENNA
The physical receiver of television signals sent over the air. (A large metal piece of equipment does not always have to be visible for your home to be using an antenna.)

CABLE
Cable Box operating mode on the remote.

CABLE SERVICE
Programming provided by a cable company.

CAPTIONS/TEXT
A form of subtitling that writes out the dialog for your program.

DELETED
Removes channels that you don't watch from the channels found by EZ Program.

ICON
A small picture on your screen representing a function or menu item.

INPUT
Refers to the jack that receives a signal into the TV, VCR or other A/V device.

JACK
A connection on the back of a TV, VCR, or other A/V device. This includes the RF jack that is threaded with a place for a small wire in the center, and the Audio/Video jacks that have a bigger opening and are color-coded.

MODE
The equipment that the remote control is currently controlling (TV, VCR, Cable, etc.) is the remote's operating "mode."
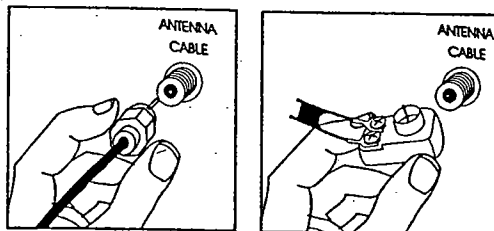
MONO SOUND
Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.

75-OHM RF CABLE
The wire that comes from an off air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the large threaded jack on the back of your TV.

OUTPUT
Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

PIP
This is the most common way to refer to the Picture-in-Picture (PIP) feature.

SECOND AUDIO PROGRAMMING/SAP
Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing 2nd Audio/SAP often refers to listening to audio in another language, such as Spanish or French.

SIGNAL
Picture and sound traveling through cable, or over the air, to your television screen.

SOURCE
The term for the equipment or connection that provides audio and video (picture and sound) to your Entertainment Machine. VCR, DVD players, or Cable Boxes are examples of sources.

STEREO SOUND
Stereo (stereophonic) sound refers to audio that's divided into right and left sides or channels.

SURF
Use the Surf feature to create a special list of your favorite channels. You can access the "Surf" channels by pushing SURF on the remote.

TUNER
Device that picks up broadcast signals and turns them into picture and sound.

Notes

206-3802

Note: If you do not have a remote, use the TV front panel controls for setup as described below.
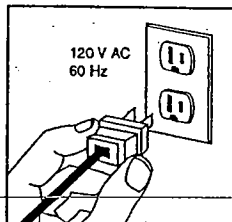
This is a quick set up guide for your TV only.
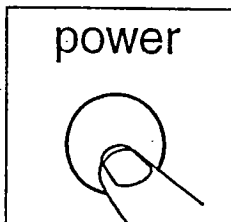*If you have a VCR and/or a cable box, see the operating guide for set up information.*
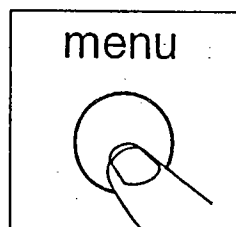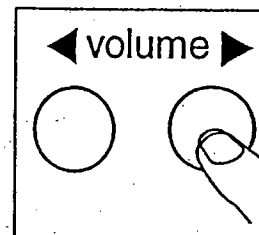
1 Connect antenna or cable.

ANTENNA
CABLE

ANTENNA
CABLE

2 Plug TV into wall power outlet.

120 V AC
60 Hz

3 Turn TV on, press POWER.

power

4 Press MENU for Setup Menu.

menu

5 Highlight EZ Program, press right arrow.
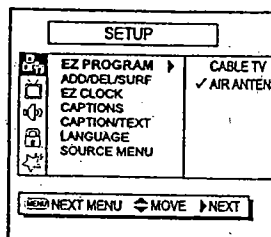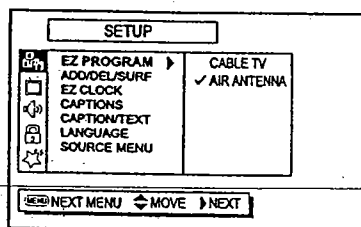
SETUP

EZ PROGRAM ▶	CABLE TV
ADD/DEL/SURF	✓ AIR ANTENN
EZ CLOCK	
CAPTIONS	
CAPTION/TEXT	
LANGUAGE	
SOURCE MENU	

NEXT MENU ⬍ MOVE ▶ NEXT

◀ volume ▶

6 Do you subscribe to cable service?

SETUP

EZ PROGRAM ▶	CABLE TV
ADD/DEL/SURF	✓ AIR ANTENNA
EZ CLOCK	
CAPTIONS	
CAPTION/TEXT	
LANGUAGE	
SOURCE MENU	

NEXT MENU ⬍ MOVE ▶ NEXT

7 Use Up/Down for antenna or cable service.

▼ channel ▲

8 Press Right adjust arrow for channel search.

◀ volume ▶

zenith **Z**
®

® Zenith Electronics Corporation, 2000

206-3624
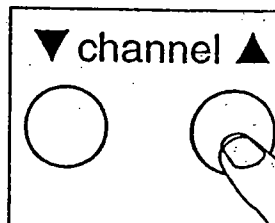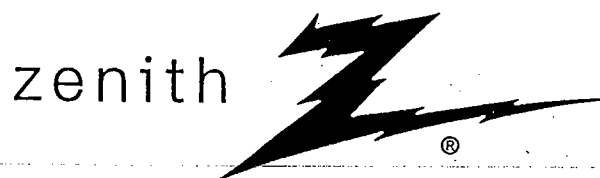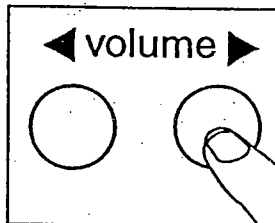
Quick Setup Guide: Remote Control

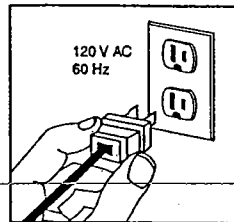Note: If you do not have a remote, then use the TV front panel controls for setup, see the other side.

This is a quick set up guide for your TV only.
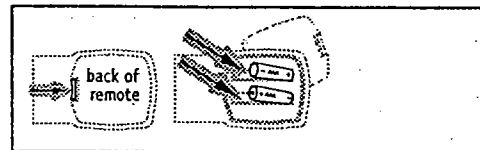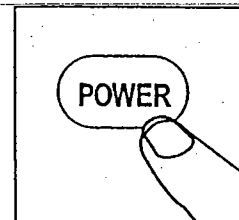*If you have a VCR and/or a cable box, see the operating guide for set up information.*

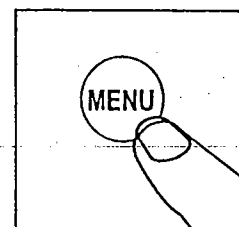**1** Connect antenna or cable.
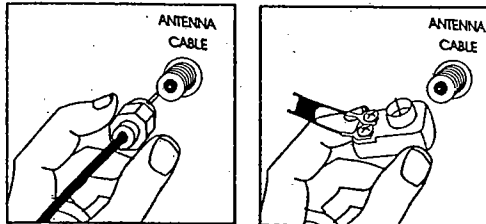
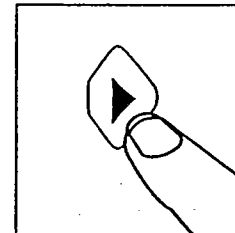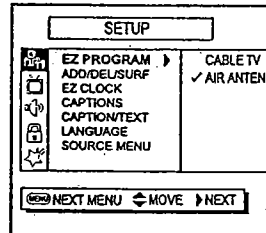**2** Plug TV into wall power outlet.

3 Put batteries in remote control.
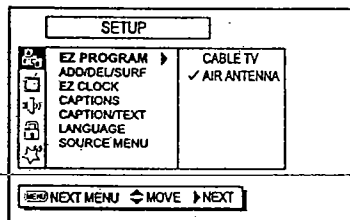
4 Turn TV on, press POWER.
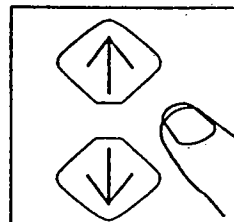
5 Press MENU for Setup Menu.
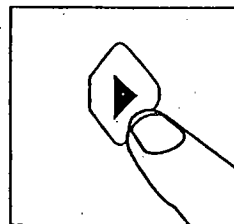
6 Highlight EZ Program, press right arrow.

7 Do you subscribe to cable service?

8 Use Up/Down for antenna or cable service.

9 Press Right adjust arrow for channel search.

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ZENITH ELECTRONICS CORPORATION
Direct-View TV Limited Warranty - USA

zenith **Z**

Zenith will repair or replace your product, at Zenith's option, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

WARRANTY PERIOD:	HOW SERVICE IS HANDLED:
LABOR: 90 days from the Date of Purchase. **Parts: One year** from the Date of Purchase. **Picture Tube: Two years** from the Date of Purchase. * Parts replaced are warranted for the remaining portion of the original warranty period.	**In-Home Service:** Please retain dealer's dated bill of sale or delivery ticket as evidence of the Date of Purchase for proof of warranty, and submit a copy of the bill of sale to the service person at the time warranty service is provided. **Please call 1-877-9Zenith (1-877-993-6484) to locate your nearest Zenith Authorized Service Center.** Replacement parts may be new or factory remanufactured.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. ZENITH WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL OR PUNITIVE DAMAGES OF ANY NATURE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, LOST OR CORRUPTED PROGRAMMING OR DATA, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

THIS LIMITED WARRANTY DOES NOT APPLY TO:

1. Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and

2. Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, reception problem caused by inadequate home antenna or faulty antenna connections, computer software, institutional or commercial use, or other causes not arising out of defect in material or workmanship.

3. Therefore, the cost of repair or replacement of such defective product shall be borne by the consumer.

CUSTOMER INTER-ACTIVE CENTER NUMBERS:

For nearest Authorized Service Center, Where to buy, Product Assistance, or Customer Assistance	Call 1-877-9Zenith (1-877-993-6484) (Monday~ Friday 7 AM ~ 8 PM CT and Saturday 8 AM ~ 5 PM CT) and select appropriate option from the menu. Or visit our website at http://www.zenithservice.com