Installation and Operating Guide | Warranty

Model Numbers | R49W36, R56W36 | Projection TVs

zenith senit



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WARNING:

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



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

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

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 ET POUSSER JUSQU'AU FOND.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV 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, trade name Zenith, model number, R49W36/R56W36, 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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The responsible party for this device compliance is:

Zenith Electronics Corporation 2000 Millbrook Drive Lincolnshire, IL 60069 Digital TV Hotline: 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.

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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 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 manual 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, Carts, and Stands

Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or 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.



206-03865

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. Power-Cord Polarization

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

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 on next page)

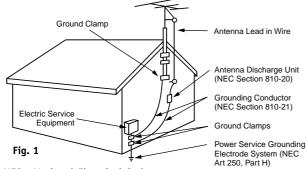
IMPORTANT SAFETY INSTRUCTIONS

(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 to provide protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions



NEC - National Electrical Code

15. Lightning

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

16. Power Lines

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

17. Overloading

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

18. Object and Liquid Entry

Never push objects of any kind into this product through

PAGE 4

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. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

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.

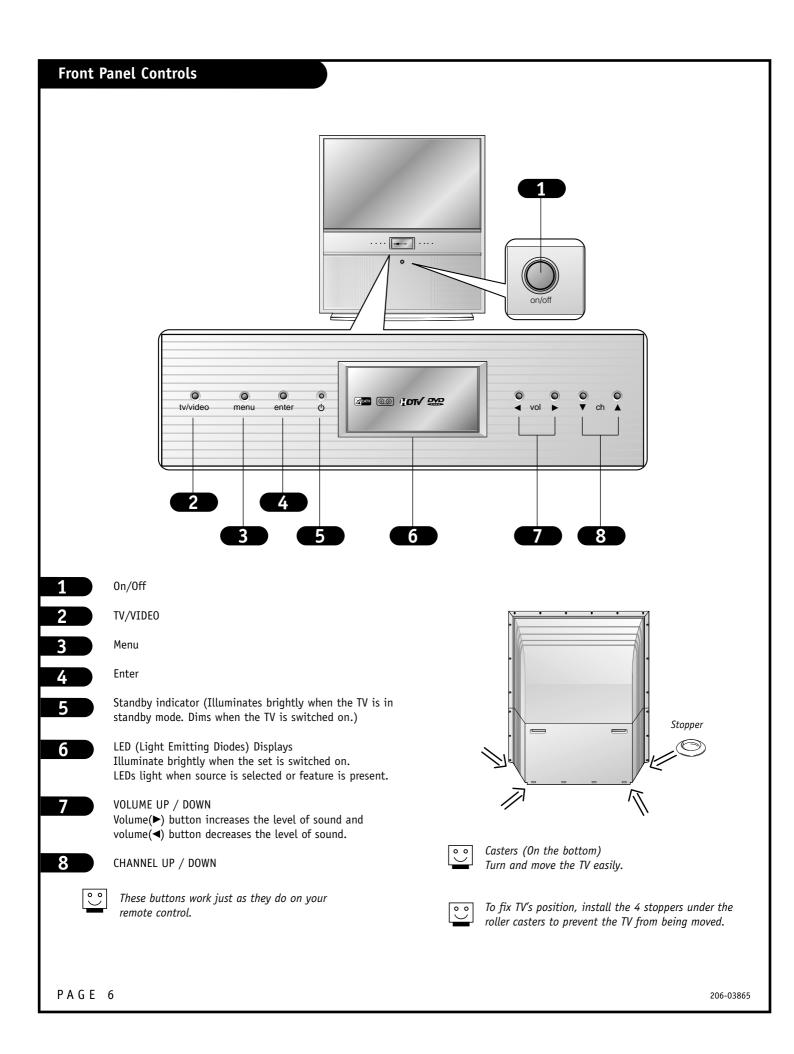
Table of Contents

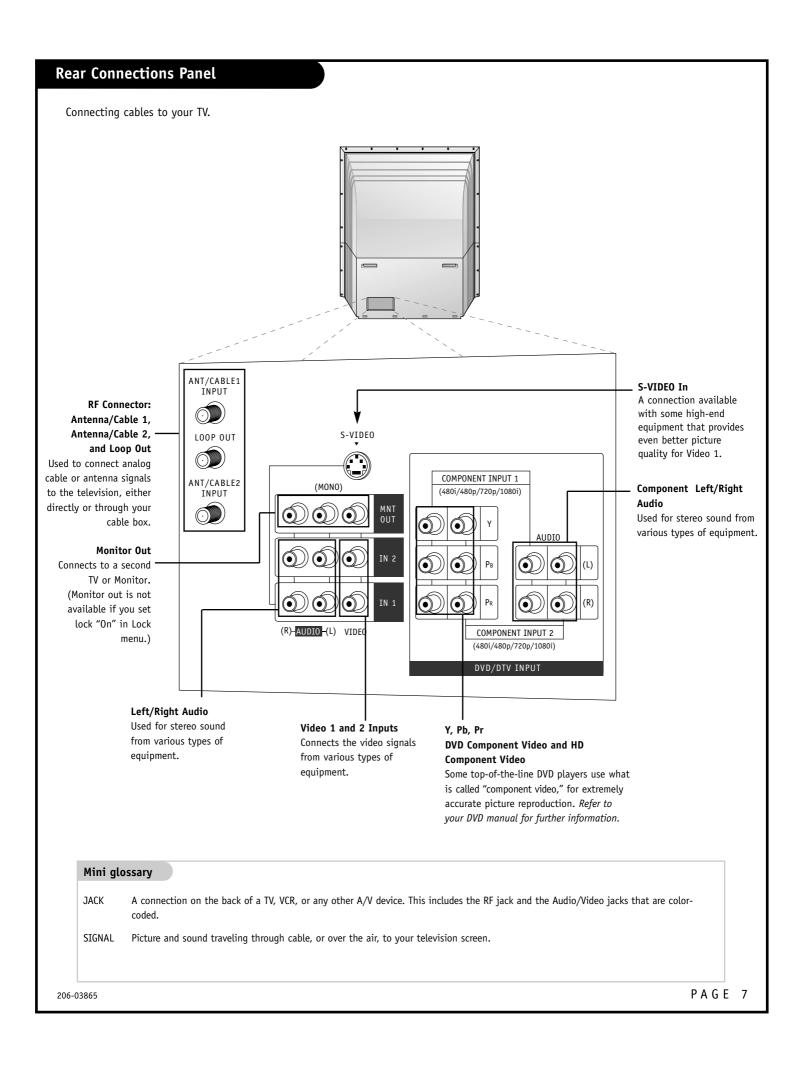
Safety Warnings
Important Safety Instructions
Step 1. Hook Up TV
Front Controls Panel
Rear Connections Panel
Front Connections Panel
ANT/CABLE Service Hookup
CABLE BOX Connections
VCR Connections
DVD Player
DBS Input
Monitor Out Setup14
Turning the TV on
On-Screen Displays
Remote Control Functions In TV Mode
Step 2. Customize your TV's Features
Step 2. Customize your TV's Features
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel Edit19
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel EditFine Tuning Adjustment20
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel EditFine Tuning AdjustmentVIDEO Menu.21-23
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel EditFine Tuning Adjustment20
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel EditFine Tuning AdjustmentYIDEO Menu.20VIDEO Menu.21-23AUDIO Menu.24-25TIME Menu
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel EditFine Tuning AdjustmentYIDEO Menu.20VIDEO Menu.21-23AUDIO Menu.24-25TIME MenuAuto Clock Setup.26
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel EditFine Tuning AdjustmentYIDEO Menu.21-23AUDIO MenuAuto Clock SetupAuto Clock Setup.27
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel EditFine Tuning Adjustment20VIDEO Menu21-23AUDIO MenuAuto Clock SetupAuto Clock Setup27TV Turn Off Time Setup28
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel EditFine Tuning AdjustmentYIDEO Menu.20VIDEO Menu.21-23AUDIO MenuAuto Clock SetupAuto Clock Setup.27TV Turn Off Time Setup.29
Step 2. Customize your TV's FeaturesSETUP MenuEZ Scan (Channel Search)Channel EditFine Tuning Adjustment20VIDEO Menu21-23AUDIO MenuAuto Clock SetupAuto Clock Setup27TV Turn Off Time Setup28

SPECIAL Menu

On-Screen Menus Language
Main Picture Source Selection
PIP (Picture-In-Picture) Options
POP (Picture-out-of-Picture) Source
Twin Picture
Captions
Captions/Text
Aspect Ratio Control
Key Lock
Auto Convergence
Auto Move
LOCK Menu
Parental Lock Setup43-45
Step 3. Miscellaneous
Programming the Remote
Programming Codes
Maintenance
Troubleshooting
Glossary
Product Specifications
Notes
Warranty

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





There are four jacks on the right front side behind the screen on your projection TV that make connecting Audio/Video devices like video games and camcorders very simple.

The jacks are like those found on the back jack connection panel. This means that most equipment that connects to those types of jacks on the rear jackpack, may be connected to the front connection panel (Video3).

To use the front jacks as the signal source, select them using Main Source menu as described on page 33. They will be named "Video 3" in the Main Source menu.

> Video or Front S-Video, the Front audio) inputs are automatically selected as well.

 $\overset{\circ}{\smile}$

When you select Video3 (Front

CAUTION: Do not connect to both Video and S-Video at the same time. Connect either Video or S-Video only.

/V CABLES	Audio/Video cables. Three cable connector—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereor playback of videocassettes and for higher quality picture and sound from other A/V devices.
/V DEVICE	Any device that produces video (picture) and/or audio (sound) (VCR, DVD, cable box, or television).

S-Video

input.

Left/Right Audio

types of equipment.

Video3 Panel

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Video

Connects the video

signals from any piece of equipment.

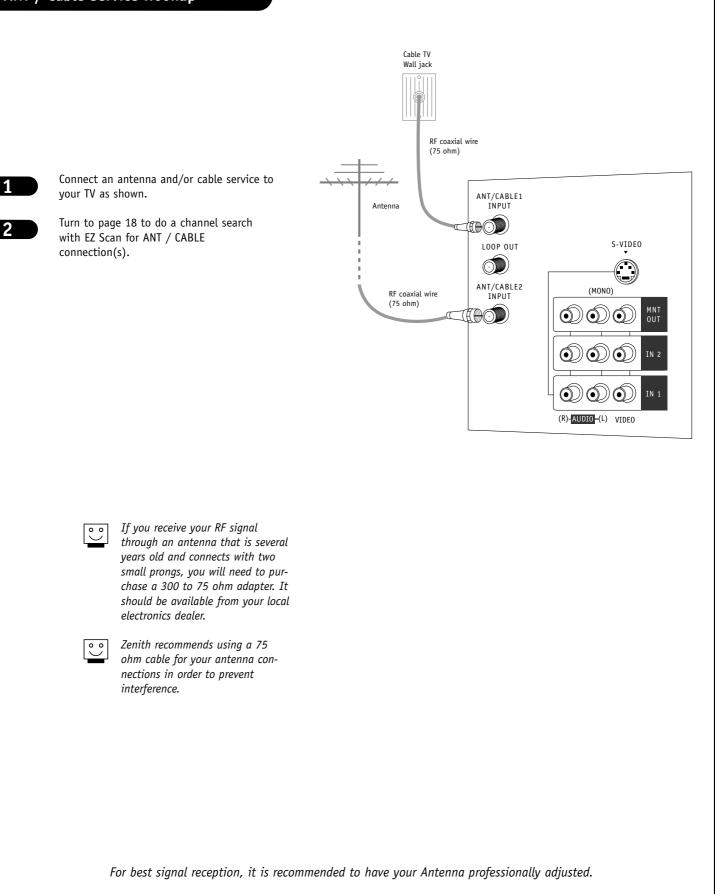
A connection available on some very

high-end equipment that provides

better picture quality than video

Used for stereo sound from various

ANT / Cable Service Hookup



Cable Box Connections

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Some cable services require the use of a cable box to decode premium channels and pay-per-view. Using the Loop Out to Decoder connection option, and programming your remote, you can connect your cable box so that you only need your MBR remote to tune to premium and non-premium channels. By connecting a cable box directly to your TV, as shown to the LOOP OUT, you make the cable box another available channel tuning source using your remote.

Locate the Antenna/Cable 2 jack on the back of your TV. Connect the cable that runs from the wall directly or antenna to the jack. Now find the Loop Out jack.

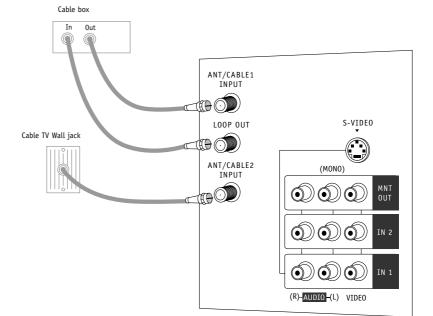
Connect the cable from this jack to the Input jack on the back of your cable box.

Locate the Output jack on the back of your cable box. Connect this to the Antenna/Cable 1 jack on the back of your TV.

To view the premium stations, press the TV/VIDEO button on your remote and select the other Cable source (Ant/Cable 1). Then tune the channel number on your cable box for HBO, CINEMAX, SHOW-TIME, etc.

To view non-premium channels press the TV/VIDEO button and select Ant/Cable 2. Then run EZ Scan to find all available channels and store them in memory.

This can be combined with any other equipment you may want to hook up, see following pages. Connect cable service wire directly to the TV, loop out from the TV, then to the cable box. From there, the cable box output connects to the next device in the connection series, until the last device, which connects back to the Antenna/Cable 1 jack on the TV.



PAGE 10

VCR Connections

Locate the Antenna/Cable 2 jack on 1 the back of your TV. Connect the cable that runs from the wall or antenna to the jack. Cable box Now find the Loop Out jack. Out Connect the cable from this jack to 2 the Input jack on the back of your cable box. Locate the Output jack on the back of VCR 3 000 8 your cable box. Connect this to the RF or VHF/UHF/CATV In jack on the back Báck AV pánel of your VCR. If you want to connect VCR to the TV directly, connect the cable from the Audic Loop Out jack to the RF or COOO VHF/UHF/CATV In jack on the back of your VCR. Find the composite video and 4 audio jacks on the back of your VCR, and connect them following the instructions provided with your equipment. You may connect either the composite video or the S-Video cables to your TV. (Do not connect BOTH the composite video and the S-Video cables. In the event that you connect both composite video and the S-Video cables, only the S-Video will work.) VCR 000 8 Back AV pane D $\widetilde{\mathbf{O}}$ To hear stereo sound from cable or your VCR, 0 0 you will need to connect A/V cables as well as the wire that runs from the VCR to your TV. If you want to receive your signals on Channel 00 3 or 4, locate the Out to TV jack on your VCR. Connect a cable from the Out to TV jack to the Antenna/Cable 1 jack on the back of your TV. After connecting external equipment to the TV, don't display a still picture for a long time on the screen. $\overset{\circ}{\bigcirc}$ Doing so may damage the TV screen. 206-03865

PAGE 11

Cable TV

Wall jack

S-VIDEO

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Cable TV Wall jack

S-VIDEO

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Round wire

(75 ohm)

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A/V cables not included

or

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A/V cables not included with TV

with TV

Antenna

RF coaxial wire

ANT/CABLE1 INPUT

LOOP OUT

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hO ANT/CABLE2

(75 ohm)

Round wire

(75 ohm)

Antenna

(75 ohm)

or

Q

RF coaxial wire

ANT/CABLE1

LOOP OUT

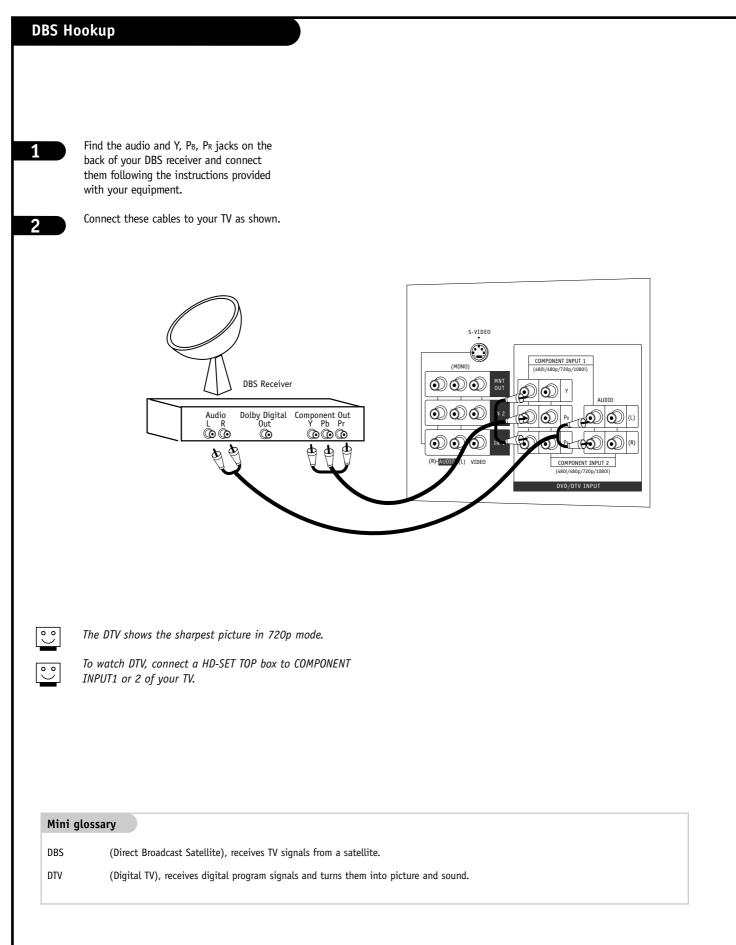
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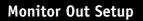
ÐOD ANT/CABLE2 INPUT

DVD Player

DVD player Find the audio and component or S-Video jacks on the back of your DVD Player and connect them fol-S-VIDEO lowing the instructions provided Back AV pánel 0 with your equipment. 000 You may connect either the com-2 000 posite video or the S-Video cables ത Dol. Out Dolby to your TV. Do not connect both Ó 6 OOOO000 the composite and the S-Video. A/V cables not included with TV Some high-end DVD players use a picture reproduction system DVD player called "component video." If your DVD player has component output, use the connector Back AV panel marked "COMPONENT 1/2" on S-VIDEO the jack panel. Please refer to your DVD manual for proper Dolby Digital S-Video COMPONENT INPUT 1 installation. 000 ^{Out} ൕൕ 000 00 00 ൕൕ NT INPUT 2 VD/DTV INPUT A/V cables not included with TV Component Input ports Component 1 (or 2) Input You can get better picture quality if you connect DVD player with component input ports as below. Y Рв PR 1920X1080i Component input jacks Y Рв \mathbf{P}_{R} on the Monitor 1280X720p Pb Pr 720X480p Video output jacks B-Y R-Y Y Y Y Cr of DVD player Cb 720X480i PR Ρв Mini glossary COMPONENT VIDEO Some video equipment uses three separate lines (Y, PB, PR) to more precisely reproduce images. Your manual will explain how this relates to your equipment.

PAGE 12



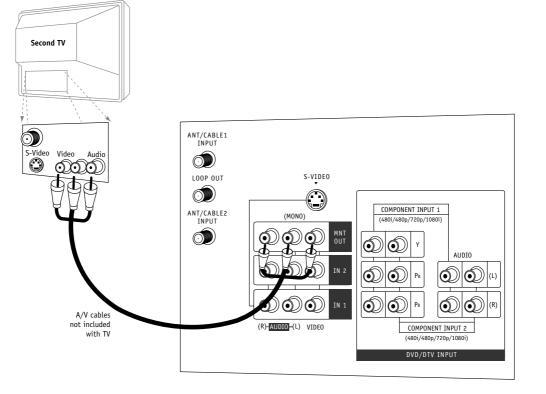


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Your TV has a special signal output capability which allows you to hook up a second TV or monitor.

Just connect the second TV or monitor to the MNT OUT Audio/Video jacks located on the back of your TV. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.



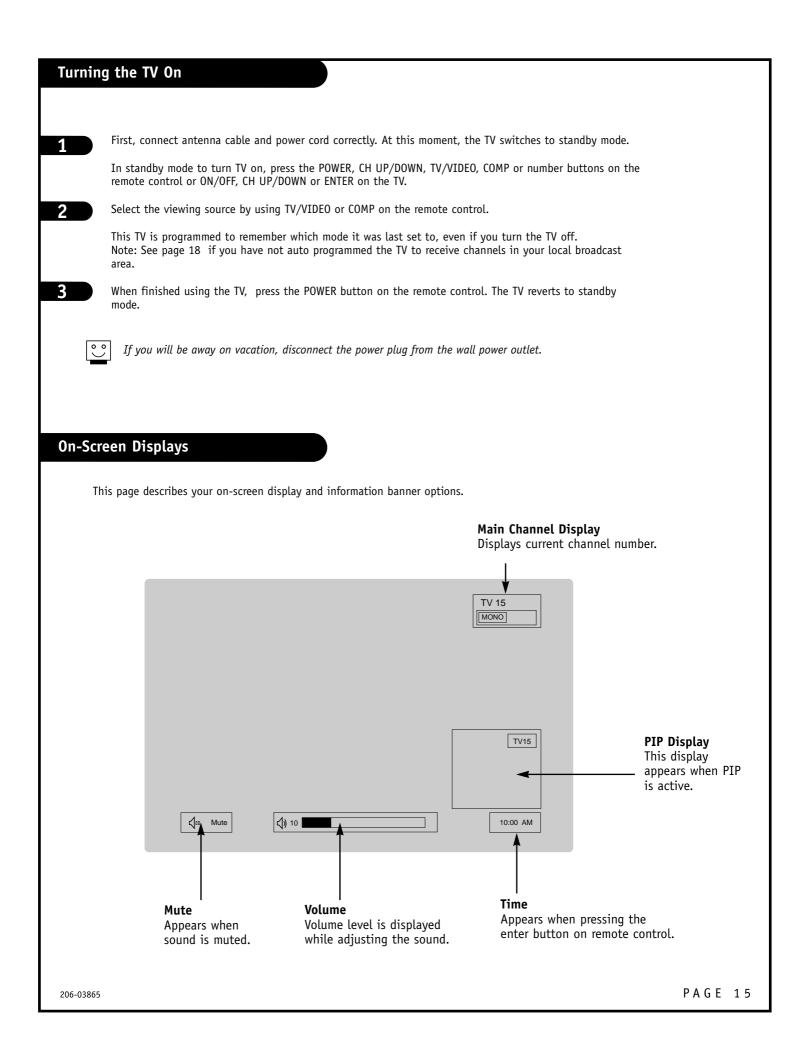
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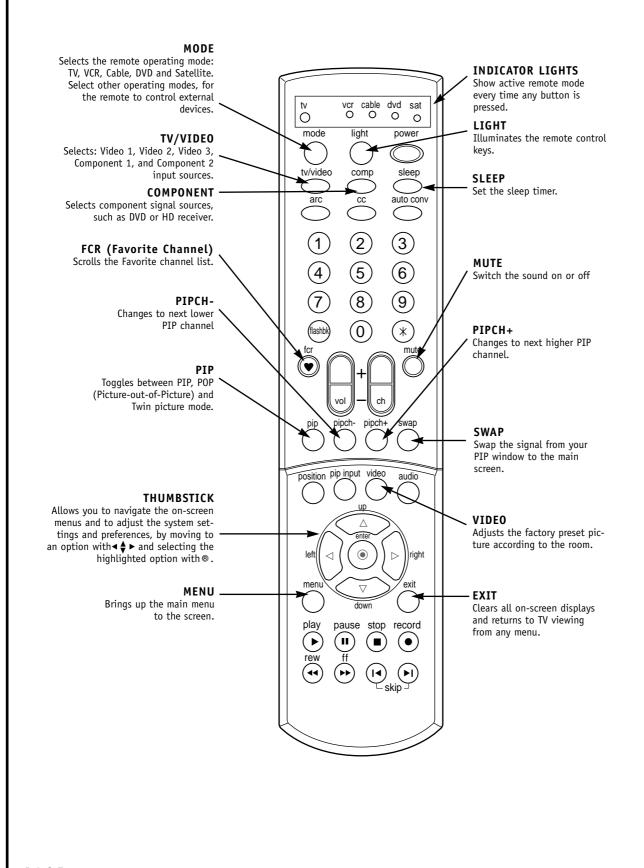
Component 1 - 2 input sources for main picture cannot be used for Monitor Out.

Monitor Out is not available if you set lock "On" in Lock menu.

PAGE 14



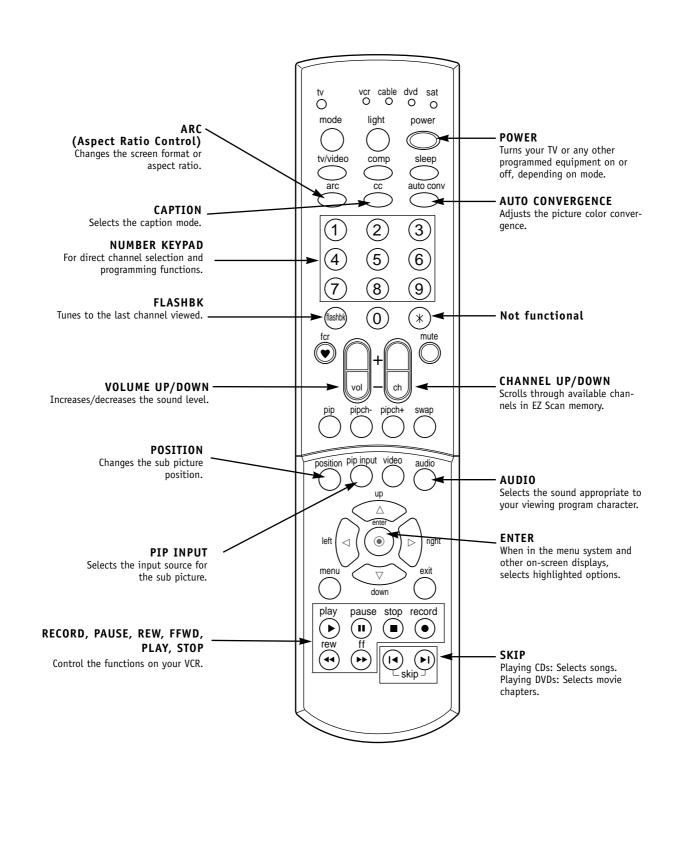
Remote Control Functions in TV Mode



206-03865

PAGE 16

Remote Control Functions in TV Mode

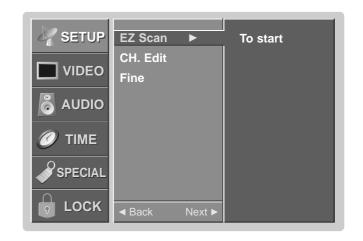


206-03865

PAGE 17

EZ Scan

Automatically finds all channels available through antenna or cable inputs, and stores them in memory on the channel list.



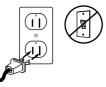
vcr cable dvd sat O O O O

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2

Use pages 9-13 to connect external equipment to your TV. If you have not done so, plug in your TV to a standard 120V 60Hz power outlet.



If you have not done so, remove the back of the remote and put in two AA batteries. Make sure batteries are properly installed (check the +/- symbols).





6

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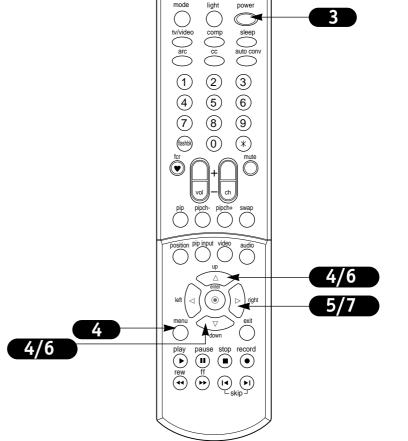
With the remote control in hand, press the POWER button to turn on your TV. Press the MENU button on the remote

control, then use the UP/DOWN arrow button to select the Setup menu.

 $\ensuremath{\mathsf{Press}}$ the RIGHT arrow button to access the Setup menu.

Use the UP/DOWN arrow button to select EZ Scan.

Press the RIGHT arrow to start the EZ Scan channel search.



PAGE 18

CH. Edit SETUP SETUP VIDEO VIDEO AUDIO Number AUDIO Number SPECIAL ↓ LOCK ■ Back Next ►

	τv		CATV			
TV 11		2	3	4	5	
Memory	6	7	8	9	10	1
Real of States	♥ 11	12	13	14	15	
7777 247 30	16	17	18	19	♥ 20	
Favorite Ch.	21	22	23	24	25	
TV 11 TV 20	26	27	28	29	30	
	31	32	33	34	35	
	36	37	38	39	40	
	41	42	43	44	45	
	46	47	48	49	50	
MENU Back	↓ Move	 Mem 	ory/Erase	FCR	Favorite CH.	

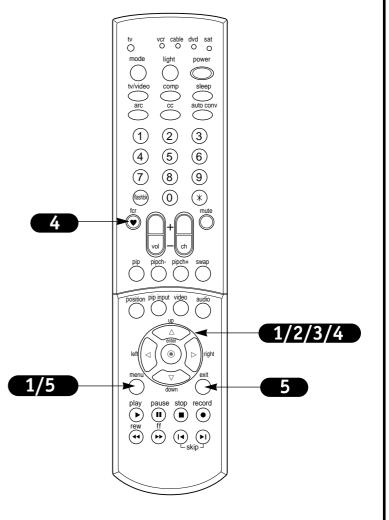
Create two different types of channel lists in memory: "Custom list" and "Favorite channel list" from the default channel list made in the EZ SCAN menu.

A custom list can be created by toggling each channel on or off with © (Enter). Once a channel is highlighted, you will be able to see whether the channel is currently added or deleted by referring to the small window at the top-left corner of the screen. You can create your own Favorite channel list with up to 10 channels. It appears at the bottom-left corner of the screen. Use the Fcr button on the remote control when a channel is highlighted, to add or delete the channel in the Favorite channel list.

Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.

- Press the RIGHT arrow button to access the Setup menu.
- Use the UP/DOWN arrow button to select CH.Edit and then press the RIGHT arrow button.
- You will now see a screen filled with channel numbers and a preview picture. Use the UP/DOWN and LEFT/RIGHT arrow button to select a channel, then use the [®] button to add or delete it. Press FCR to add the channel to the Favorite channel List.

Press EXIT button to save and return to TV viewing or press MENU button to save and return to the previous menu.



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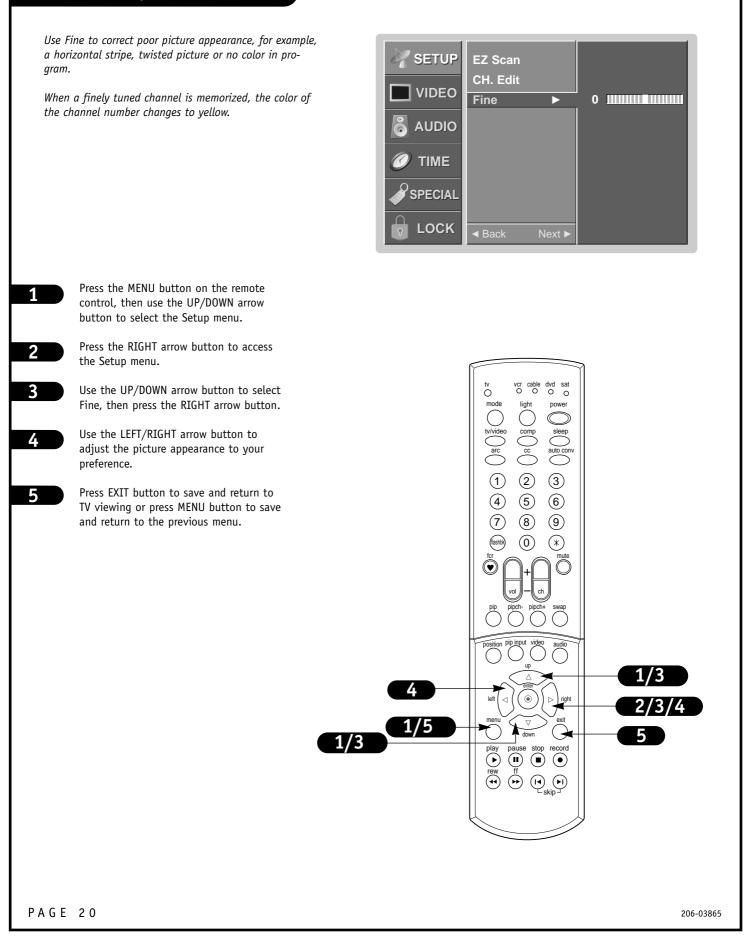
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Fine Tunning Adjustment

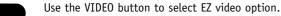


VIDEO Menu

EZ Video

This function adjusts the TV to the best picture appearance. Select the preset value in the EZ Video menu based on the program category.

Video options (clear, optimum, and soft) are preset for good picture quality at the factory and cannot be changed. When adjusting video options (Contrast, Brightness, Color, Sharpness, and Tint) manually, EZ Video automatically changes to 'Off'.



Each press of the VIDEO button change the EZ video option: Clear, Optimum, Soft and Off.



1

Press EXIT to save and return to TV viewing.



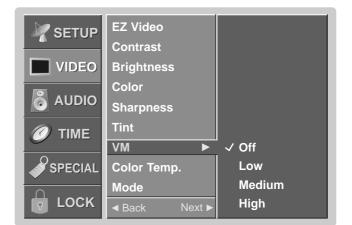
You can also select EZ Video in the Video menu.

Velocity Modulation

Use this function to improve the outline distinction of the picture's edges.

If you select VM 'off', the TV will automatically return the pictures' edge appearance to factory settings.

- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Video menu.
 - Press the RIGHT arrow button to access the Video menu.
 - Use the UP/DOWN arrow button to select VM, and then press the RIGHT arrow button.
 - Use the UP/DOWN arrow button to select Off, Low, Medium, and High.
 - Press EXIT button to save and return to TV viewing or press MENU button to save and return to the previous menu.



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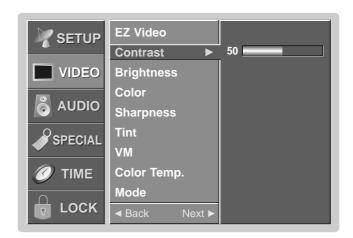
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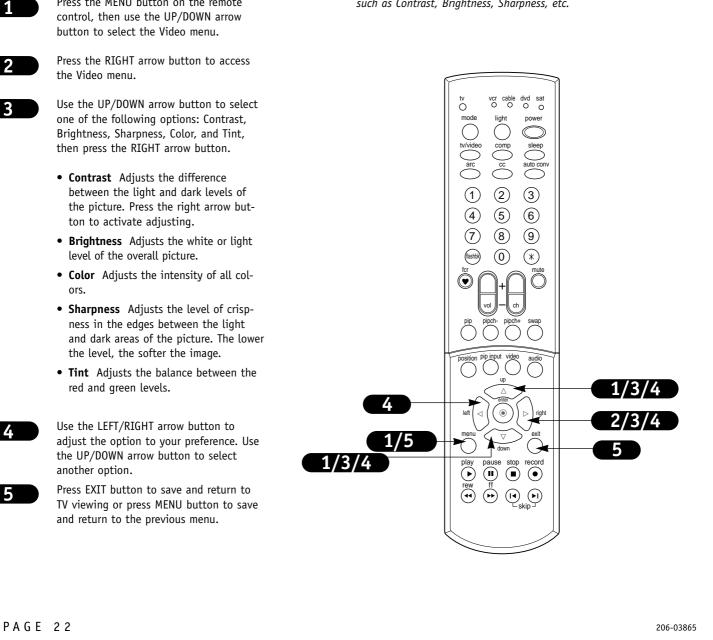
VIDEO Menu

Adjust the picture appearance to suit your preference and viewing situations.

Press the MENU button on the remote



You can manually adjust the levels of picture quality settings, such as Contrast, Brightness, Sharpness, etc.



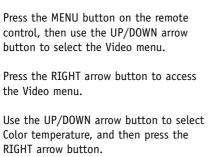
VIDEO Menu

Color Temperature

Specify the picture color status.

1
2
3

5



Use the UP/DOWN arrow button to select Warm, Medium, or Cool.

Press EXIT button to save and return to TV viewing or press MENU button to save and return to the previous menu.

Scan Mode

Use this function to select output format.

- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Video menu.
- 2

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1

Press the RIGHT arrow button to access the Video menu.

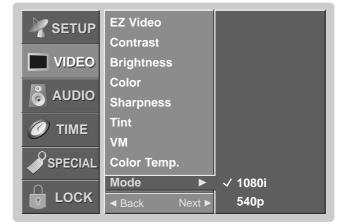
Use the UP/DOWN arrow button to select mode, and then press the Right arrow button.

Use the UP/DOWN arrow button to select 1080i or 540p.

- Select 1080i when watching normal TV, movies etc.
- Select 540p when viewing a more stationary image, a video game for example

Press EXIT button to save and return to TV viewing or press MENU button to save and return to the previous menu.





AUDIO Menu

MTS

Lets you choose the default audio mode for conventional analog programs. When you hear a program broadcast in mono, you will hear only monaural sound, even though Stereo mode is set. When Second Audio Program (SAP) mode is set, the program's second audio program, usually the program's dialog in another language, (if provided), is broadcast in mono.



2

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4

5

Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Audio menu.

Press the RIGHT arrow button to access the Audio menu.

Use the UP/DOWN arrow button to select MTS, then press the RIGHT arrow button.

Use the UP/DOWN arrow button to select Mono, Stereo, or SAP.

Press EXIT button to save and return to TV viewing or press MENU button to save and return to the previous menu.

AVL (Auto Volume Leveler)

AVL maintains an equal volume level; even if you change channels.

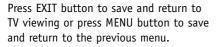
5

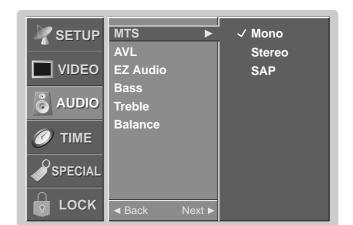
Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Audio menu.

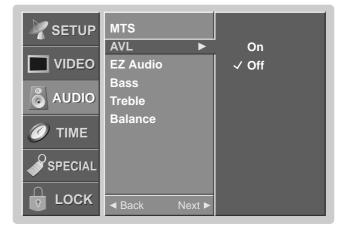
Press the RIGHT arrow button to access the Audio menu.

Use the UP/DOWN arrow button to select AVL, then press the RIGHT arrow button.

Use the UP/DOWN arrow button to select On or Off.





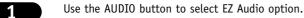


PAGE 24

AUDIO Menu

EZ Audio

This function lets you enjoy the best sound without any special adjustment because the TV automatically selects the appropriate sound option based on the program content. Audio options (DC Virtual, flat, music, sports, movie and off) are preset for good sound quality at the factory and cannot be changed. When adjusting audio options (bass, treble and balance) manually, EZ audio automatically changes to 'Off'.



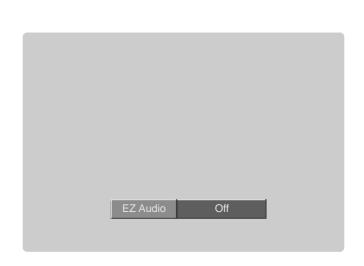
Each press of the AUDIO button changes the EZ audio option; 🕅 Virtual, Flat, Music, Sports, Movie and Off.



Press EXIT to save and return to TV viewing.



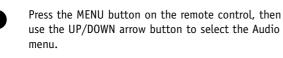
You can also select EZ Audio in the Audio menu.



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. IN Virtual let's you experience panoramic sound effects.

Manual Sound Control (Off option)

Adjust the sound to suit your taste and room situations.





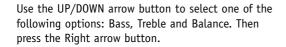
3

4

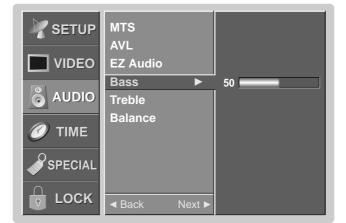
5

1

Press the RIGHT arrow button to access the Audio menu.



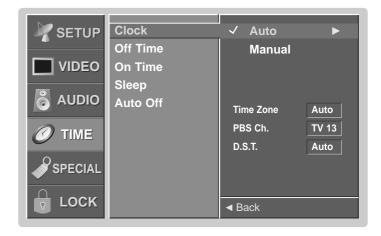
- **Bass:** Increases or decreases the lower frequency sounds of the TV speakers.
- Treble: Increases or decreases the higher frequency sounds of the TV speakers. Increases in treble, for example, make voice or string sounds stand out.
- **Balance:** Lets you adjust the left to right balance of the TV speakers.
- Use the LEFT/RIGHT arrow button to adjust the option to your preference. Use the UP/DOWN arrows to select another option.
- Press EXIT button to save and return to TV viewing or press MENU button to save and return to the previous menu.

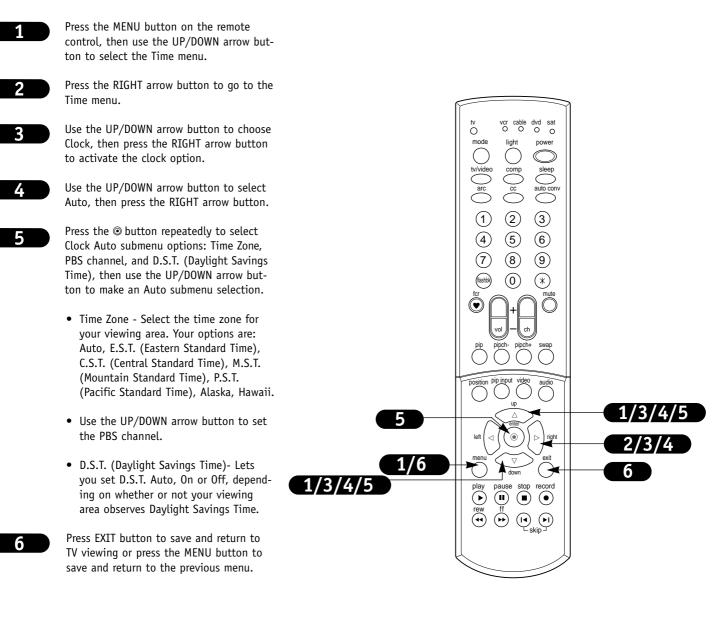


Auto Clock Setup

Sets the time automatically through the PBS broadcast signal.

The PBS channel signal includes information for the correct time.

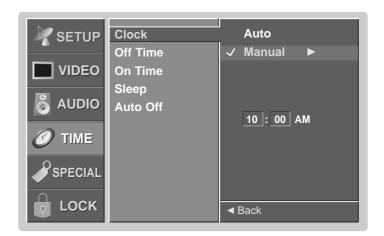


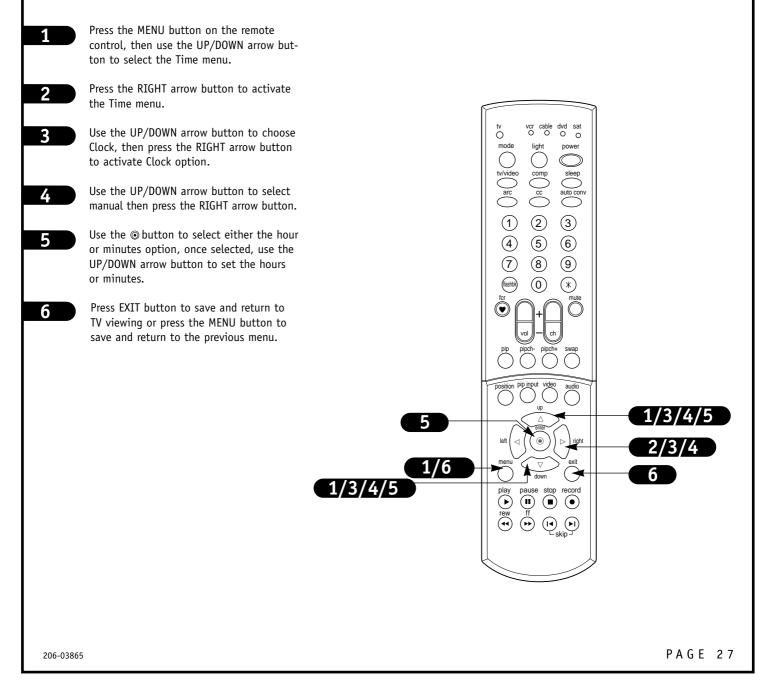


PAGE 26

Manual Clock Setup

If current time setting is erased by a power failure or if TV is unplugged, reset the clock.



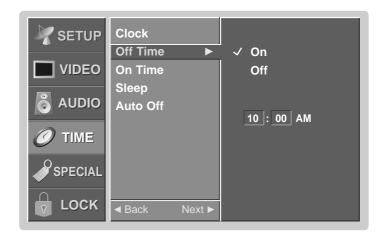


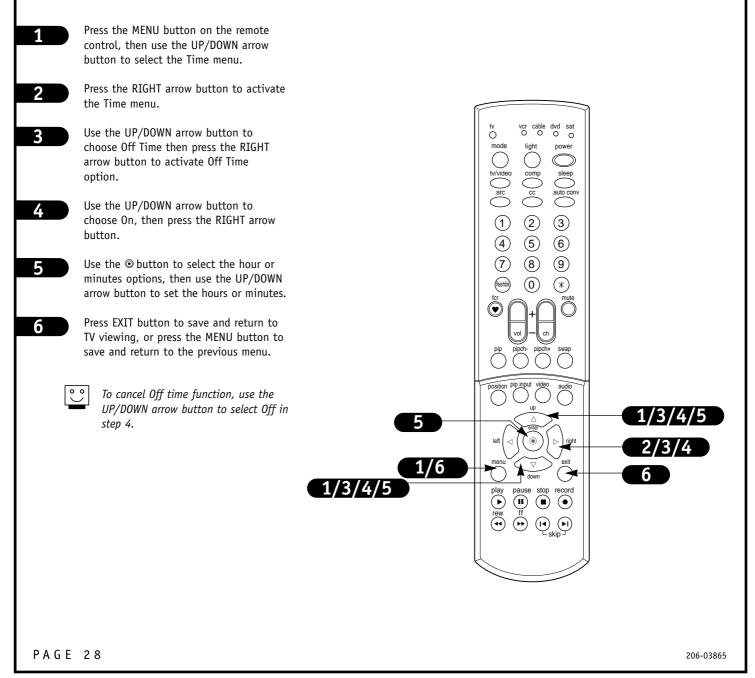
TV Turn Off Time Setup

Lets you set an automatic daily turn off time for your TV.

Off Timer function overrides On Time function if they are both set to the same time.

You must set the current time before using on/off time function.





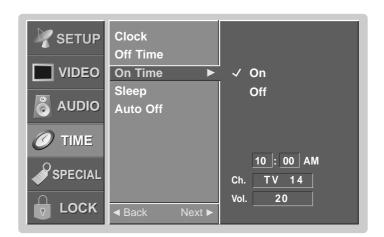
TV Turn On Time Setup

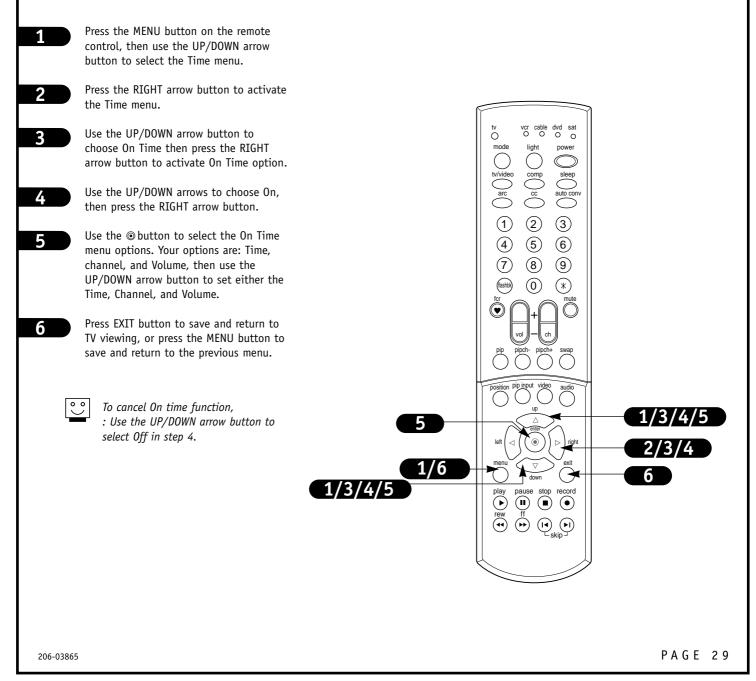
Lets you set an automatic daily turn on time for your TV.

Off timer function overrides on timer function if they are both set to the same time.

Unless a button is pressed within two hours after the TV is turned on by the On Time function, the TV will automatically turn off.

TV must be in standby mode for the On Timer to work.





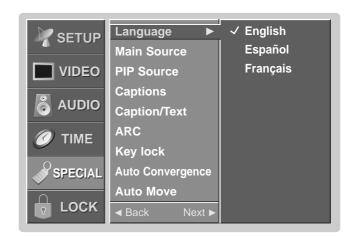
ets you select the amount of time before your TV utomatically turns itself off.	
	Sleep Off
 Press the SLEEP button on the remote control repeatedly to select the number of minutes. First the Off option will appear on the screen, followed in sequence 10, 20, 30, 60, 90, 120, 180, and 240. The timer begins to count down from the number of minutes selected. Press EXIT button to save and return to TV viewing 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
When the sleep time you want is displayed on the screen, don't press the sleep button again. Image: To check the remaining sleep time, press the sleep button once. Image: To change sleep time setting, press the sleep button repeatedly to select time setting you want. Image: To you turn the TV off after setting the sleep timer, the setting will be erased. Image: You can also select Sleep in the Time menu.	Image: Second secon

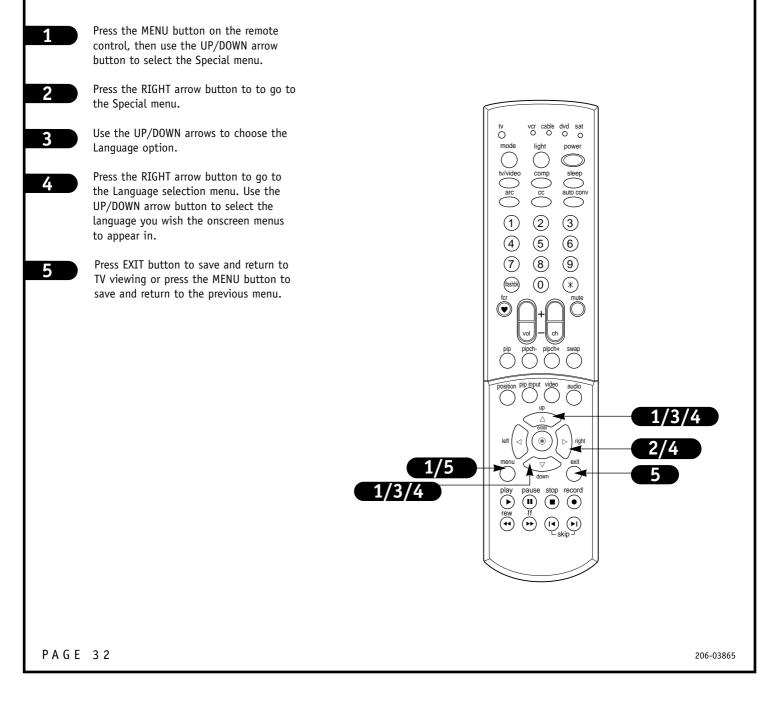
Auto Off

If there is no input signal, the TV switches to standby mode automatically after 10 minutes. Clock SETUP Off Time On Time Sleep AUDIO Auto Off On ✓ Off TIME SPECIAL LOCK Back Press the MENU button on the remote 1 control, then use the UP/DOWN arrow button to select the Time menu. Press the RIGHT arrow button to activate 2 the Time menu. vcr cable O O dvd sat O O Use the UP/DOWN arrow button to Ő 3 choose Auto off then press the RIGHT light powe arrow button to activate Auto off. com Use the UP/DOWN arrows to choose On 4 or Off. 2 1 (3) Press EXIT button to save and return to 5 4 (5) 6 TV viewing, or press the MENU button to $\overline{7}$ 8 9 save and return to the previous menu. flashbk $(\mathbf{0})$ (*)1/3/4 2/3 1/5 (1/3/4 play rew pause stop record PAGE 31 206-03865

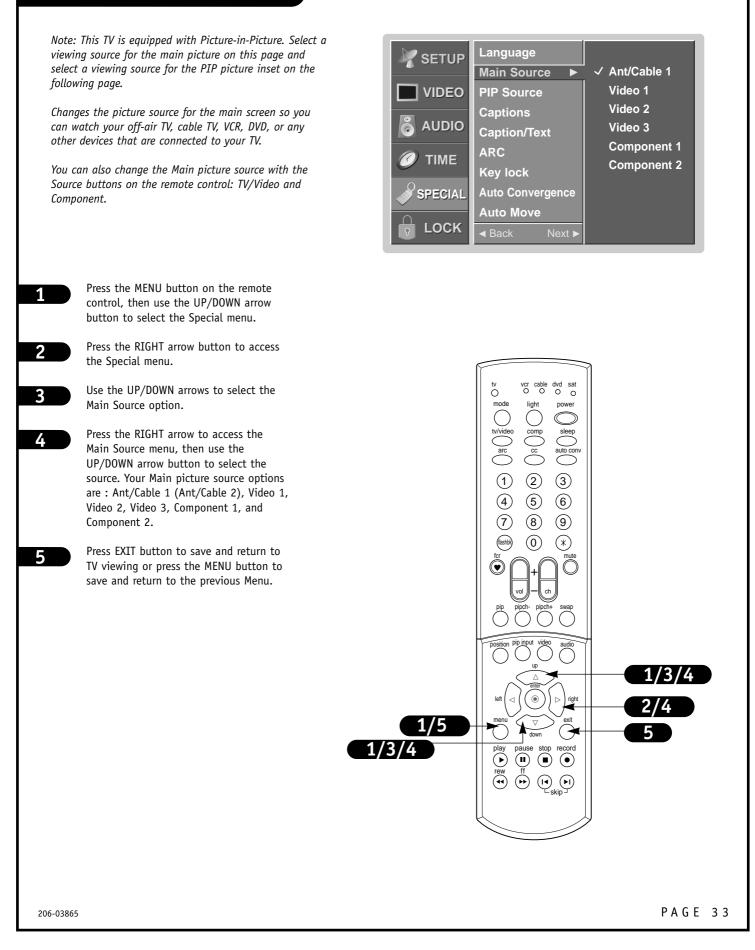
On-Screen Menus Language

Select your preferred language for the menus: English, Español, or Français.





Main Picture Source Selection



PIP (Picture-In-Picture) Source

PIP lets you view 2 different inputs (sources) on your monitor screen at the same time. One source will be large, and the other source will show a smaller inset image.

PIP is not available if you set lock "On" in Lock menu.

Watching PIP

Press the PIP button to show the sub picture. Each press of PIP changes the PIP options as shown below.



PIP Source Selection

Changes the picture source for the Picture-In-Picture screen so you can watch your off-air TV, cable TV, VCR, or any other devices that are connected to your TV.

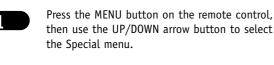
Using the menu

2

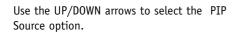
3

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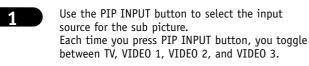
Press the RIGHT arrow button to access the Special menu.



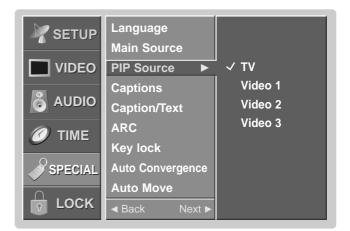
Press the RIGHT arrow to access the PIP source menu, then use the UP/DOWN arrow button to select the source. Your choices are: TV (Ant/Cable 1, Ant/Cable 2), Video 1, Video 2, Video 3.

Press EXIT button to save and return to TV viewing or press the MENU button to save and return to the previous Menu.

Using the PIP INPUT button



PAGE 34



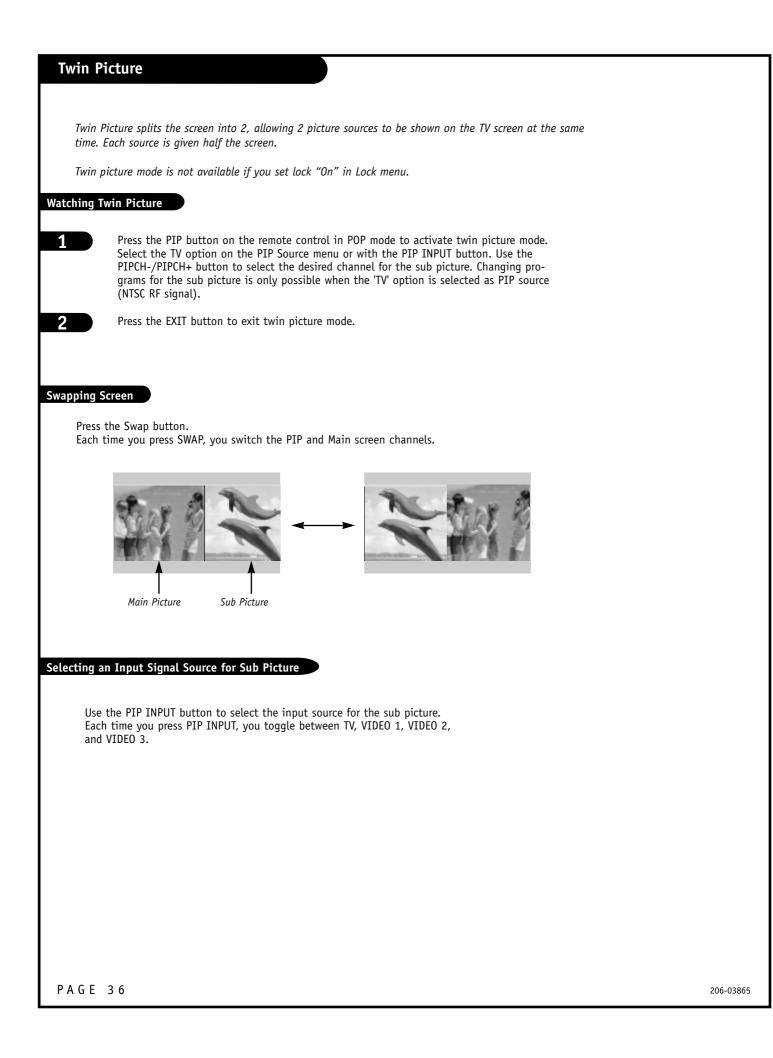


Do not display a fixed image on the screen for long periods of time.



Not all sources are available for PIP.

PIP (Picture)	-In-Picture) Options	
	in ricture, options	
Selecting PIP Chan	nels	
1 Press	the PIP button in the PIP mode.	
PIPCH	the TV option on the PIP Source menu or wit -/PIPCH+ button to select a channel for the select as only possible when the 'TV' option is a	ub picture. Changing programs for the
Swapping Screen		
Press the SWA Each time you	P button. press the SWAP button, you switch the Main a	and PIP pictures.
Mai	Picture Sub Picture	The second secon
Moving the Sub Pie	cture SITION button in the PIP mode.	
position on [.]	f the POSITION button will move the sub pictu the screen in a clock-wise direction.	
POP (Picture	-Out-of-Picture) Source	
the programm	nction to search one-by-one the pictures of all ed channels on the 3 PIP screen display while en remains the current channel.	
POP is not ave	nilable if you set lock "On" in Lock menu.	The second se
PIP in (Pictu The p nels a	PIP on the remote control with the nage on the screen to activate POP rre -out-of-Picture) mode. ictures of all the programmed chan- are searched with the 3 PIP screen, as n right.	
ch	pressing SWAP, you can enlarge the annel being searched on the PIP reen to view it on the Main screen.	in the
2 Press	the EXIT button to exit POP mode.	
°⊂⊂ (Caption/Text is not available in POP mode.	
°° ₽	Run EZ Scan channel search before using POP m	ode.
1		



Captions	Captions Off
 Press the CC button to select captions. Each press of the CC button change the captions option; On, EZ Mute and Off. Captions Setup is complete. EZ Mute shows the selected captions option (if available on program) when the TV sound is muted. Press EXIT to save and return to TV viewing. You can also select Captions in the Special menu. 	Image: state direction and complex index of the state from power with the complex index of the state from the complex index of the complex index of the state from the complex index of the complex i
206-03865	PAGE 37

Captions/Text

Select a closed caption mode for displaying captioning

information when provided on the program.

Closed Caption (CC) displays information at any position VIDEO **PIP Source** on the screen usually the program's dialog. CC 3 Captions CC 4 AUDIO Text displays information, usually at the bottom position Caption/Text Text 1 and is used for a data service, generally not program ARC Text 2 related. TIME Key lock Text 3 Text 4 Auto Convergence SPECIAL Auto Move LOCK Back Press the MENU button on the remote 1 control, then use the UP/DOWN arrow button to select the Special menu. Press the RIGHT arrow button to activate 2 the Special menu. vcr cable O O dvd O sat O Use the UP/DOWN arrow button to ö 3 choose Caption/Text, then press the ligh Right arrow button. Use the UP/DOWN arrow button to make 4 your caption selection. Your choices are: 2 1 CC 1, CC 2, CC 3, CC 4, Text 1, Text 2, Text (3) 3 and Text 4. 4 (5) (6) $\overline{7}$ (8) (9) Press EXIT button to save and return to 5 TV viewing or press the MENU button to flashbk $(\mathbf{0})$ (*)save and return to the previous menu. \bigcirc This TV is programmed to remember ိ the caption/text mode it was last 1/3/4 set to, when you turn the POWER off. 1/5 1/3/4 play record rew (FF) (\mathbf{h}) PAGE 38 206-03865

Language

Main Source

✓ CC 1

CC 2

SETUP

Aspect Ratio Control

Lets you choose the way that an analog picture with a 4:3 aspect ratio is displayed on your TV with a 16:9 ratio. When you receive an analog picture with a 4:3 aspect ratio on your 16:9 TV, you need to specify how the picture is to be displayed according to your preference.

1

Use the ARC button to select the desired picture format.

Each press of the ARC button changes the picture format. Your options are: 4:3, 16:9, Panorama, Zoom1, and Zoom2.

- 4:3 Choose when you want to view a picture with an original 4:3 aspect ratio, with black bars appearing at both the left and right sides.
- 16:9 (Wide) Choose when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen. (Useful for viewing 4:3 formatted DVDs.)
- Panorama Choose when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a spectacular view.
- ٠ Zoom1 - Choose when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.
- Zoom2 Choose when you want the picture to be altered, both horizontally extended and vertically cropped. The picture taking a halfway trade off between alteration and screen coverage.
- Press EXIT to save and return to TV viewing.

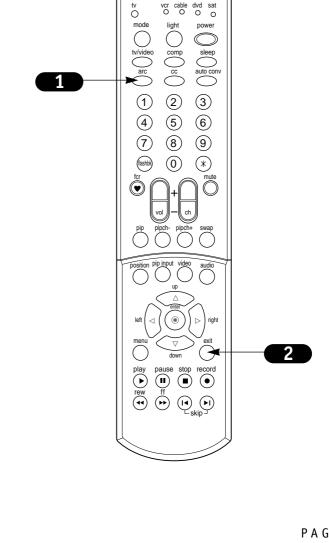


You can also select ARC (Aspect Ratio Control) in the Special Menu.

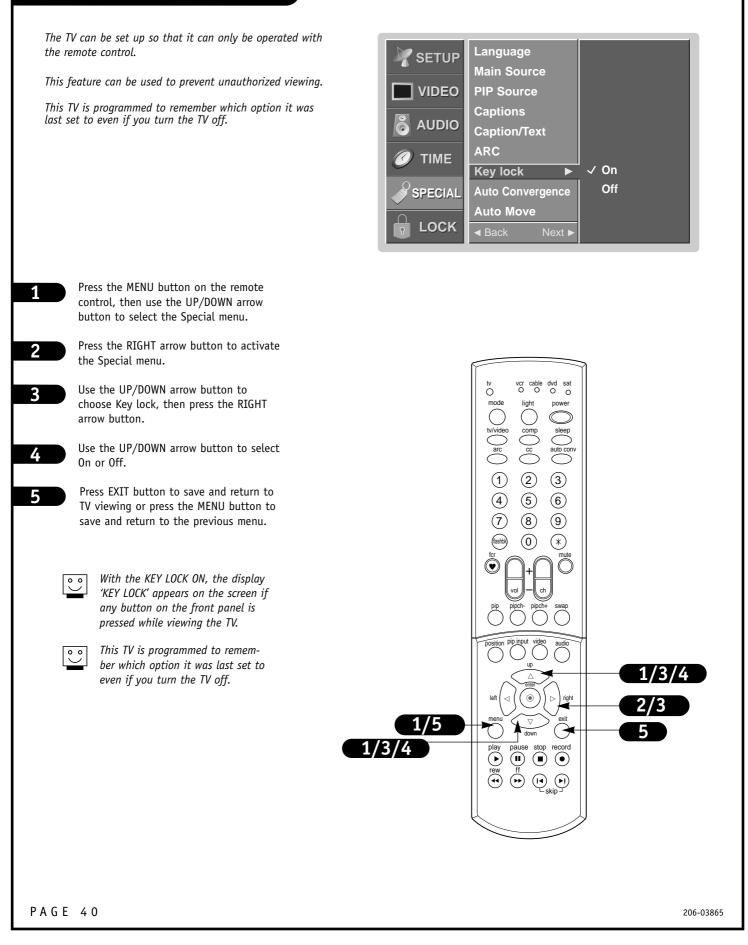
206-03865

2





Key Lock



Auto Convergence

When the TV is first installed or relocated, the picture may be unstable and have three color ghosts (red, green, blue). This problem can be solved with Auto Convergence.

This function can adjust the picture color convergence automatically if the TV is receiving a stable signal.

Wait 20 minutes after turning on the TV before using Auto Convergence.

Auto Convergence Position Checking DATA : 52

Press the AUTO CONV button to start auto convergence.

- The color convergence order will be: blue, green, then red.
- The auto convergence function takes about 30 seconds.

0)	١٥	

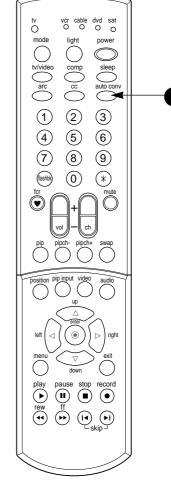
 \circ \circ

You can also select Auto convergence

Darken the room before adjusting

color convergence.

in the Special menu.



206-03865

PAGE 41

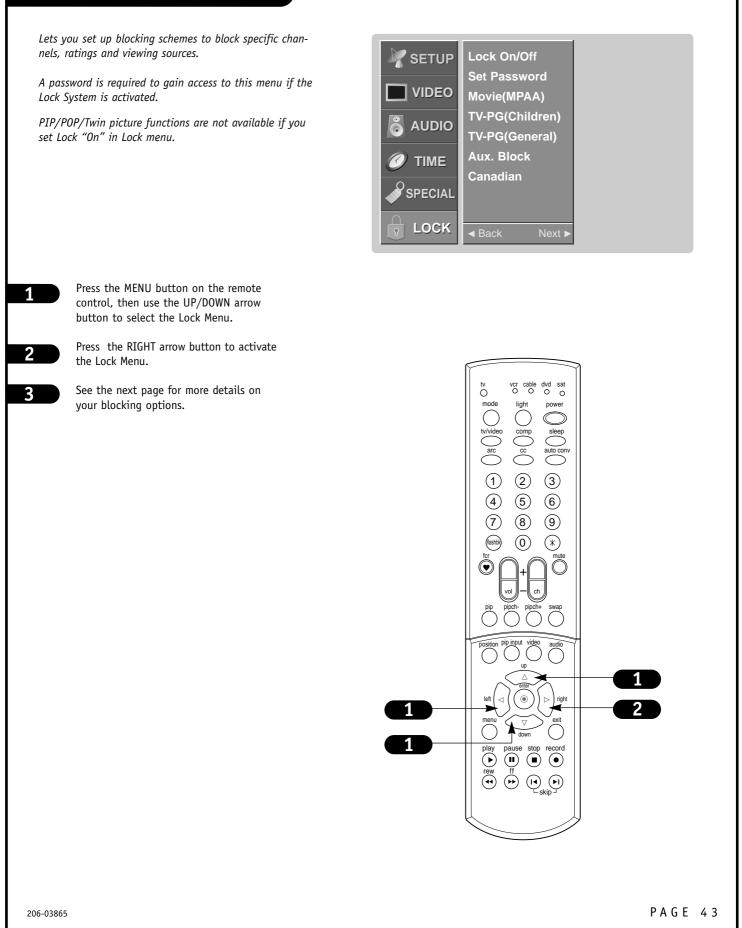
1

Auto Move

Auto move may help prevent a ghost image.

Language SETUP The picture will move to right and left about 5mm every 2 Main Source hours in 4:3 aspect ratio. **PIP Source** The picture will move to up and down about 5mm every 2 hours in twin picture mode. Captions AUDIO Caption/Text ARC TIME Key lock Auto Convergence SPECIAL 🗸 On Auto Move LOCK Off Back Press the MENU button on the remote 1 control, then use the UP/DOWN arrow button to select the Special menu. Press the RIGHT arrow button to activate 2 the Special menu. vcr cable O O dvd sat O O Use the UP/DOWN arrow button to Ő 3 choose Auto Move, then press the RIGHT ligh arrow button. Use the UP/DOWN arrow button to select 4 On or Off. 2 1 3 Press EXIT button to save and return to 5 4 (5) (6) TV viewing or press the MENU button to (7)8 9 save and return to the previous menu. flashbk $(\mathbf{0})$ (*)۲ 1/3/4 2/31/5 1/3/4 play paus stop record rew (FF) (\mathbf{h}) PAGE 42 206-03865

Parental Lock Setup

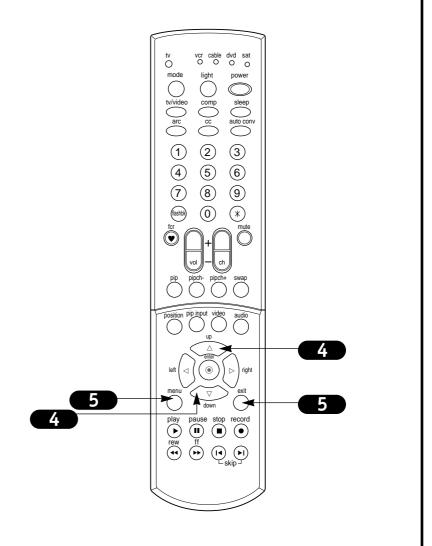


4

Use the UP/DOWN arrows to choose from the following LOCK Menu options. Once the options are selected, change the settings to your preferences.

- Lock On/Off: Activates or disables the blocking scheme you set up previously.
- Set Password: Change the password by inputting a new password twice.
- Movie (MPPA): Blocks movies according to the movie ratings limit, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movie shown on TV, not TV programs, such as soap operas.
- TV-PG (Children): Keeps children from watching certain TV programs among only the programs intended for children, according to the ratings limit. This rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating - General menu, your children may view those programs.
- TV-PG (General): Blocks certain TV programs that you and your family do not want to view, based on the ratings.
- Aux. Block: Enables you to select a source for blocking among the source devices you have hooked up.
- **Canadian**: Selects Canadian English/French language rating system.
- Press EXIT button to save and return to TV viewing or press the MENU button to save and return to the previous menu.





PAGE 44

5

206-03865

Parental Lock rating descriptions



TV-Y7 (Directed to Older Children): Program is designed for children age 7 and above.

TV-G (General audience): Most parents would find this program suitable for all ages.

TV-PG (Parental guidance suggested): Program contains material that parents may find unsuitable for younger children.

TV-14 (Parents strongly cautioned): Program contains some material that many parents would find unsuitable for children under 14 years of age.

TV-MA (Mature audience only): Program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.

G - (General audiences): All ages admitted.

PG - Parental guidance suggested: Some program content may not be suitable for children.

PG-13 - Parents strongly cautioned: Some program content may not be appropriate for children under 13.

R- (Restricted): Children under 17 requires accompanying parent or adult guardian.

NC-17: No one 17 and under admitted.

TV-Y (All Children): Program is determined to be appropriate for all children.

X: Adult admitted only.

NR: Not rated movie.

Canadian Lock Rating:

English

C: Children C8+: 8 years and up G: General programming. Suitable for all audiences. PG: Parental guidance suggested 14+: Viewers 14 years and up 18+: Adult programming

French G: General 8 ans+: 8 years and up 13 ans+: 13 years and up 16 ans+: 16 years and up 18 ans+: Adults only

206-03865

Programming the Remote

The remote control for your HD receiver is a multi-brand or universal remote control. It can be programmed to operate most remote-con-trollable devices of other manufacturers.

Note that the remote control may not control all models of other brands.

Test your remote control.

1

2

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4

5

6

To find out whether your remote control can operate the component without programming, turn on the component such as a VCR and press the corresponding mode button (VCR) on the remote control, while pointing at the component. Test the **POWER** and **CH** +/- buttons to see if the component responds properly. If not, the remote requires programming to operate the device.

Turn on the component to be programmed. Then press the corresponding mode button on the remote control.

Press the POWER button and the MUTE button simultaneously. Then the remote control is ready to program the code for the corresponding component.

There are two ways to find the right code for the component.

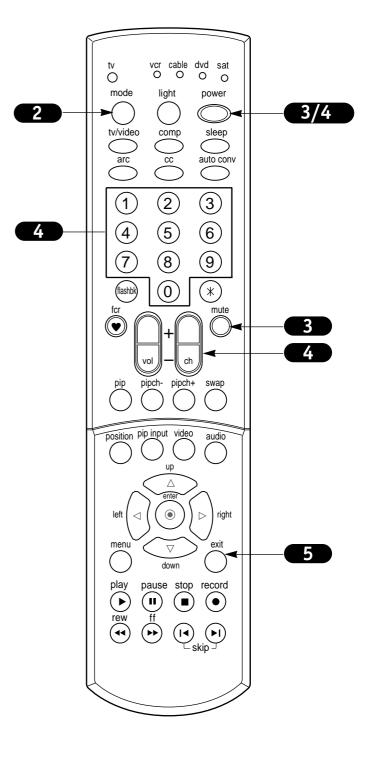
A. If you press the **CH** +/- buttons repeatedly, the codes will change one at-a-time. Press the POWER button after each code change. If the right code is found, the device will turn off.

B. Enter a code number using the number buttons on the remote. The right code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will

turn off.

Press the EXIT button to store the code.

Test the remote control functions to see if the component responds properly. If not, repeat from step 2.



TVs

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
A MARK	112 143	GOLDSTAR	004 102 106		019 024 040	Sharp	004 014 019
ADMIRAL	072 081 161		110 112 113		056 130 132		022 028 029
AKAI	006 146		116 119 122		134		081 143 170
AMPRO	073 167		127 137 143	NIKEI	043		175
AMSTRAD	052	HALL MARK	004 116	ONKING	043	SIEMENS	088
ANAM	043 054 056	HITACHI	004 006 009	ONWA	043	SIGNATURE	072
	080 104 108		010 011 012	OPTONICA	019 081	SONY	041 070 079
	112 115 118		023 041 075	PANASONIC	034 056 080		085 126 139
	121 131		143 158 163		092 164		147 185
AOC	004 006 058		166	PHILCO	003 004 006	SOUNDESIGN	003 004 028
	112	INFINITY	164		024 043 056		043 116
BLAUPUNKT	088	INKEL	129		059 060 063	SPECTRICON	112
CANDLE	002 003 004	JBL	164		064 127 143	SSS	004 043
	006	JCPENNY	004 006 008		164	SUPRE MACY	002
CAPEHART	058		009 024 030	PHILIPS	003 004 005	SYLVANIA	003 004 006
CETRONIC	043		065 101 143		006 038 059		044 059 060
CITIZEN	002 003 004		156 160		070 093 143		063 064 116
	006 043 101	JENSEN	013		160 164		127 140 160
	103 143	JVC	034 038 070	PIONEER	006 018 023		164
CLASSIC	043	0.00	034 038 070		025 027 116	TANDY	081
CONCERTO	004	KEC	043		135 176	TATUNG	056 062
CONTEC		KEC					
CUNTEC	039 043 050		006 070	PORTLAND	004 143	TECHNICS	034 080 084
	051	KLOSS	002 059	PROSCAN	144 160 161	TECHWOOD	004
CORONADO	143	КМС	143	DECTON	165 167	TEKNIKA	002 003 004
CRAIG	043 054	KTV	006 043 143	PROTON	004 058 116		006 024 028
	043 143		154		131 143 171		031 043 072
CURTIS MATHES	004 006 101	LG	255		173		077 101 103
	116 143	LODGENET	072	QUASAR	034 056 092		143
CXC	043	LOGIK	072	RADIO SHACK	019 043 047	TELEFUNKEN	037 046 086
DAEWOO	004 016 017	LUXMAN	004		116 127 143		087
	043 044 055	LXI	007 015 052	RCA	004 006 023	TELERENT	072
	071 076 103		081 160 164		024 056 065	TERA	172
	107 111 114		166		074 144 152	ТМК	004 116
	117 120 123	MAGNAVOX	003 004 006		156 160 161	TOSHIBA	007 015 030
	125 127 128		022 059 060		165		040 051 062
	136 143		061 063 064	REALISTIC	007 019 043		101 138
DAYTRON	004 116 143		127 143 160		047	TOTEVISION	143
DYNASTY	043		164	ROCTEC	186	UNIVERSAL	008 009
DYNATECH	062	MARANTZ	006 077 164	RUNCO	168 169	VIDEO CONCEPTS	146
ELECTROHOME	024 077 143	MATSUI	164	SAMPO	004 006 058	VIDIKRON	174
EMERSON	004 005 006	MEMOREX	004 007 072		116	VIDTECH	004 116
	028 043 047		116	SAMSUNG	004 050 089	WARDS	004 008 009
	048 050 051	METZ	088		101 105 113		019 028 060
	096 116 143	MGA	004 006 024		116 127 133		061 063 064
	151 153 154		028 042 049		137 143 160		072 074 116
	155		077 116	SANYO	007 020 021		143 164
FISHER	007 057	MINERVA	088		033 039 053	YAMAHA	004 006
FUNAI	028 043	MITSUBISHI	004 006 024		057 082 166	YORK	004 116
FUTURETECH	043		028 040 042	SCOTT	004 028 043	YUPITERU	043
GE	004 006 008		109 116 124		048 116 143	ZENITH	001 072 073
-	009 034 056		146	SEARS	004 007 015		095 103 157
		мтс	004 006 062				
	073 074 091	MTC			028 030 057	ZONDA	112
	116 130 144	NAD	101		082 094 101		
	155 160 161	NAD	015 025		116 143 160		
	165	NEC	006 007 016				

206-03865

VCRs

034 016 043 046 124 125 146 072 031 033 103 012 023 039 043 035 037 129 028 031 033 003 040 135 031 033 041 005 031 033 041 005 010 0264 065 108 110 111 112 116 117 119 108 012 023 039 043 034 053 043 043 043 043 044 045 045 045 045 045 046 045 046 045 046 045 046	KENWOOD LG LLOYD LXI MAGIN MAGINAVOX MARANTZ MARTA MARTA	055 060 130 150 152 014 034 039 043 047 048 255 034 003 009 013 014 017 034 101 106 040 031 033 034 041 067 068 012 031 033 067 069 101	REALISTIC RICO RUNCO SALORA SAMSUNG	034 040 041 062 063 107 109 140 144 145 147 003 008 010 014 031 033 034 040 053 054 101 058 148 014 032 040 102 104 105 107	TOTEVISION UNITECH VECTOR RESEARCH VICTOR VIDEO CONCEPTS VIDEOSONIC WARDS	040 101 040 012 048 012 034 046 040 003 013 017 024 031 033 034 040 053 054 131 012 034 039
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043 035 037 129 028 031 033 108 033 041 003 040 135 031 033 041 005 007 010 064 065 108 110 111 112 116 117 119 108 012 023 039 043 043 043	LXI MAGIN MAGNAVOX MARANTZ MARTA MATSUI	003 009 013 014 017 034 101 106 040 031 033 034 041 067 068 012 031 033 067 069	RUNCO SALORA	034 040 053 054 101 058 148 014 032 040 102	WARDS	003 013 017 024 031 033 034 040 053 054 131 012 034 039
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043	MEMOREX	003 010 014		135		
		031 033 034	SANYO	003 007 010		
		053 072 101		014 102 134		
059		102 134 139	SCOTT	017 037 112		
006 017 025	MGA	045 046 059		129 131		
027 029 031	MINOLTA	013 020	SEARS	003 008 009		
034 035 036	MITSUBISHI	013 020 045	SEARS	010 013 014		
037 046 101		046 049 051		017 020 031		
129 131 138		059 061 151		042 073 081		
153	мтс	034 040		101		
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	NEC					
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			SOUNDESTON			
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	DCA					
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PAGE 48

206-03865

SAT

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
ALPHASTAR DSR	123		027 133 134	PERSONAL CABLE	117	VIEWSTAR	115
AMPLICA	050	GENERAL INSTRUMENT	003 004 016	PHILIPS	071	WINEGARD	128 146
BIRDVIEW	051 126 129		029 031 059	PICO	105	ZENITH	001 081 082
BSR	053		101	PRESIDENT	019 102		083 084 091
CAPETRONICS	053	HITACHI	139 140	PRIMESTAR	030 110 111		120
CHANNEL MASTER	013 014 015	HOUSTON TRACKER	033 037 039	PROSAT	072		
	018 036 055		051 057 104	RCA	066 106		
CHAPARRAL	008 009 012	HUGHES	068	REALISTIC	043 074		
	077	НҮТЕК	053	SAMSUNG	123		
CITOH	054	JANIEL	060 147	SATELLITE SERVICE CO	028 035 047		
CURTIS MATHES	050 145	JERROLD	061		057 085		
DRAKE	005 006 007	KATHREIN	108	SCIENTIFIC ATLANTA	032 138		
	010 011 052	LEGEND	057	SONY	103		
	112 116 141	LG	255	STARCAST	041		
DX ANTENNA	024 046 056	LUTRON	132	SUPER GUIDE	020 124 125		
	076	LUXOR	062 144	TEECOM	023 026 075		
ECHOSTAR	038 040 057	МАСОМ	010 059 063		087 088 090		
	058 093 094		064 065		107 130 137		
	095 096 097	MEMOREX	057	TOSHIBA	002 127		
	098 099 100	NEXTWAVE	028 124 125	UNIDEN	016 025 042		
	122	NORSAT	069 070		043 044 045		
ELECTRO HOME	089	PACE SKY SATELLITE	143		048 049 078		
EUROPLUS	114	PANASONIC	060 142		079 080 086		
FUJITSU	017 021 022	PANSAT	121		101 135 136		

DVD

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
APEX DIGITAL	022		025	PHILIPS	013	THOMPSON	005 006
DENON	020 014	MAGNAVOX	013	PIONEER	004 026	TOSHIBA	019 008
GE	005 006	MARANTZ	024	PROCEED	021	YAMAHA	009 018
GOLDSTAR	010 016 025	MITSUBISHI	002	PROSCAN	005 006	ZENITH	010 016 025
HARMAN KARDON	027	NAD	023	RCA	005 006		
JVC	012	ONKY0	008 017	SAMSUNG	011 015		
LG	001 010 016	PANASONIC	003 009	SONY	007		

CATV

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
ABC	003 004 039		008 009 010	REGAL	049 050		032 035
	042 046 052		052 069 074	REGENCY	057	VIEWSTAR	012 015 018
	053	LG	255	REMBRANT	025		086 087 088
ANTRONIK	014	M-NET	037	RK	091		089
ARCHER	005 007 014	МАСОМ	033	SAMSUNG	030 068	ZENITH	001 060 093
	024	MAGNAVOX	010 012 064	SCIENTIFIC ATLANTA	003 011 041		
CABLE STAR	026		079		042 043 045		
CENTURION	092	MEMOREX	001		046		
CENTURY	007	MOVIE TIME	028 032	SHERITECH	022		
CITIZEN	007	NSC	015 028 038	SIGNAL	030		
COLOUR VOICE	065 090		071 073	SIGNATURE	052		
COMBANO	080 081	OAK	016 031 037	SL MARX	030		
COMTRONICS	019 030		053	SPRUCER	047 078		
DIAMOND	023	PANASONIC	044 047	STARCOM	002 004 008		
EAGLE	020 030 040	PARAGON	001		009		
EASTERN	057 062 066	PHILIPS	006 012 013	STARGATE	008 030		
ELECTRICORD	032		020 065 085	SYLVANIA	067		
GE	072		090	TADIRAN	030		
GEMINI	008 022 025	PIONEER	034 051 052	TANDY	017		
	054		063 076	TEXSCAN	029 067		
GI	052 074	POST NEWS WEEK	016	тосом	039 040 056		
GOLDEN CHANNEL	030	PRUCER	059	TOSHIBA	001		
HAMLIN	049 050 055	PTS	011 048 071	UNIKA	007 014 024		
HITACHI	052 055		072 073 074	UNITED CABLE	004 053		
HOSPITALITY	070 077	PULSAR	001	UNIVERSAL	005 007 014		
JERROLD	002 003 004	RCA	047		024 026 027		

206-03865

Maintenance

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

SCREEN CLEANING

- 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 TV.

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 the TV on.

WOOD CABINETS

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

EXTENDED ABSENCE



If you leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord 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.

PICTURE INTERFERENCE

Even though you may be getting cable, the signal may be weak, which means the quality of your picture may suffer due to other factors. If there are problems with the image on your TV, consult the Troubleshooting guide on the following pages. You may also want to contact your cable service provider to determine if the problem is from the cable service.

VIDEO GAMES AND OTHER FIXED-PATTERN DISPLAYS

If you use your TV to play video games or for other uses that have single, fixed images, such as a photo-CD player, you should avoid setting the Brightness level too high. If static images, like network identification patterns, are left on the screen for too long, they can leave a permanent impression on the TV screen. You can reduce the chance of this happening by limiting the amount of time you use the fixed-image display, and by reducing the contrast and brightness levels.

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If you unplug your TV, you may have to reset the clock using the Time menu described earlier.

Troubleshooting

Some quick and easy tips to fixing problems yourself.

SYMPTOM	POSSIBLE SOLUTIONS
Snowy picture and unclear sound.	Check your antenna connection or location. Check your apple input
	 Check your cable input. Check to see if the TV/VCR button on your VCR has the TV selected.
	check to see if the regreek button on your ver has the re selected.
Multiple images or 'ghost shadows.'	Check your antenna direction and/or location.
	Check your cable input.Make sure the cable from your antenna to your TV is
	properly connected.
	The following may cause image problems or distortion:
Interference: Sharp lines across	Electrical appliances, powerful lights, cars, trucks; computers or
the screen and unclear sound.	portable phones; medical equipment
	• If possible increase the distance between your TV and the offending appliance,
	or shut one of them off.
Normal picture but no sound.	Check volume levels.
Normat picture but no sound.	• Make sure the TV is not Muted.
	• Try another channel. The problem may be with the broadcast, not your TV.
	 Are the Audio cables installed properly? Are the unice for external accelera (if you have external accelera)
	 Are the wires for external speakers (if you have external speakers) installed properly?
	 Make sure your speakers are turned on in the Audio menu.
	• If your audio mode is set to SAP, the program may not have SAP.
No nicture and unclear cound	• Are you in TV or cable tuning mode, and should be in the other?
No picture and unclear sound.	• 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 power outlet.))
	 Make sure your brightness and audio controls are set properly. Try another channel. The problem may be with the broadcast.
	• Ty another channet. 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	• The CC (closed caption) option may be in Text mode. Select Caption 1, in the
on it, but the sound is O.K.	Captions/Text menu., or OFF in the Captions menu.
Picture has two horizontal	
black bars, one on top and	• Select correct Aspect Ratio in Special menu or with ARC button.
one on bottom.	
Missing Secret Lock Code	• If you forgot your password, when the display asks you to enter the secret code,
	press '7', '7', '7', '7' on the remote control.

SYMPTOM	POSSIBLE SOLUTIONS
Remote control doesn't work.	• Make sure the batteries are fresh and installed properly.
Menu options can't be changed or selected.	 Try unplugging your TV for a few minutes, then plug it back in.
No picture or sound when any 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 equipment.
Weak or no Stereo Sound when using a stereo VCR.	 Check to see if all the connections are secure. Look in the Audio mode menu to see if all the settings are correct. You are using channel 3 or 4 to view your VCR. No stereo sound is present under that decision.
The PIP inset is black or lacks contrast.	 Check to be sure that the PIP source is turned on. Check that all the wires are connected properly. Check to see if your input source for PIP is set correctly.
The PIP inset is "snowy" when the source is TV.	• Look to see if the TV/VCR button on your VCR has the TV selected or change the PIP to another source.
Time is incorrect.	• Make sure the time was set initially. Probably power was lost.

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

75 OHM RF CABLE	The round cable 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.
A/V CABLES	Audio/Video cables. Three cables - Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocas- settes and for higher quality picture and sound from other A/V devices.
A/V DEVICE	Any device that produces video or sound (VCR, DVD, cable box, or television).
ADD	This function lets you add new channels to the channel list in memory that you'll scroll through when using your remote.
AMPLIFIER	An external device that amplifies sound from a television, CD player, VCR, DVD or other A/V device.
ANALOG TV	Traditional method of representing a television signal as a replica (analog) of the original picture and sound.
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.
ARC (Aspect Ratio Control)	The ratio of the horizontal dimension to the vertical dimension of a pic- ture. Standard television in the U.S. today is generally transmitted and displayed in a 4:3 aspect ratio. High-Definition television will normally be formatted in a wider aspect ratio, assumed to be 16:9.
CAPTIONS	A form of subtitling that writes out the dialog for your program on the screen.
CONVERGENCE	This option lets you correct for color separation in your picture.
DELETE	This function lets you remove channels that you don't watch from the channel list in memory.
DIGITAL TV	A new method of representing a television signal as a series of binary numbers (1s and 0s). This method allows the signal to be manipulated to eliminate redundancy and dramatically increase picture and sound quality.
DOLBY DIGITAL	Dolby Digital Cinema Sound is made possible by a new digital coding tech- nique called Dolby AC-3. Dolby AC-3 produces high-quality, 5.1 channel surround sound which is six discrete separate channels for a full range of sound. Each channel can carry a different signal simultaneously (front center, front left, front right, surround left, surround right and subwoofer).

206-03865

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

FAVORITE CHANNELS	This function created a customized list of your favorite chan- nels. You can access this group of channels with the FCR but- ton on the remote by pressing FCR repeatedly.
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 any other A/V device. This includes the RF jacks and the Audio/Video jacks that are color-coded.
MODE	The mode determines the type of device (TV, VCR, Cable, Aux) that the remote is controlling; remote operating mode.
MONO SOUND	Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.
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) option.
SECOND AUDIO PROGRAMMING/SAP	Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.
SIGNAL	Picture and sound traveling through cable, or on the air, to your television screen.
SOURCE	The term for the equipment that provides audio and video information to your TV. Antenna, VCR, DVD players, and Cable Boxes are examples of sources.
STEREO SOUND	Stereo (stereophonic) sound refers to audio that's divided into right and left sides.
TEXT	Arbitrary text not related to the program.
TUNER	Any device that picks up broadcast signals and turns them into picture and sound.

PAGE 56

206-03865

Product Specifications

Power requirements	120V, 60 Hz	
Number of inputs/outputs		
Video (In) Video (Out)	3 1	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (In)	2	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.280 Vp-p (burst signal), 75 ohms
Audio (In)	5	500 mVrms (100% modulation), Impedance: 47 kilohms
Audio (Out)	1	More than 408 mVrms at the maximum volume setting (variable) Impedance (output): 2 kilohms
Component input	2	Y: 1.0 Vp-p, 75 ohms w/sync
	2	PB: 0.7 Vp-p, 75 ohms
	2	PR: 0.7 Vp-p, 75 ohms
Speaker output (W)	15W ×2	
Power consumption (W)		
In use (max.)	300W	
In standby	2W	
TV		
Weight (lbs)	145.5 (R49W3	36), 158.7 (R56W36)
Television system	American TV S	Standard, NTSC, ATSC with STB
Channel coverage	VHF: 2 - 13 UHF: 14 - 69 CATV: 1 - 125	
Antenna	75 ohm exter	nal terminal for VHF/UHF
Supplied accessories	Remote contro	ol, batteries 2 size AA (Alkaline battery)
Screen Aspect Ratio	16 x 9	

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Design and specifications are subject to change without prior notice.

206-03865

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ZENITH ELECTRONICS CORPORATION **Projection TV Limited Warranty - USA**



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: One Year from the Date of Purchase.	In-Home Service: Please retain dealer's dated bill of sale or
Parts: One Year from the Date of Purchase.	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 per-
CRT Picture Tubes: 2 Years from the Date of	son at the time warranty service is provided.
Purchase.	Please call 1-877-9Zenith (1-877-993-6484) to locate

* Parts replaced are warranted for the remaining portion of the original warranty period.

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 REOUIRED 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 a defective product shall be borne by the consumer.

CUSTOMER INTER-ACTIVE CENTER NUMBERS:

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

ZENITH ELECTRONICS CORPORATION 2000 MILLBROOK DRIVE LINCOLNSHIRE, IL 60069

Zenith Part No. 206-3865

P/N: 3828VA0220N@(SP02PC)

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