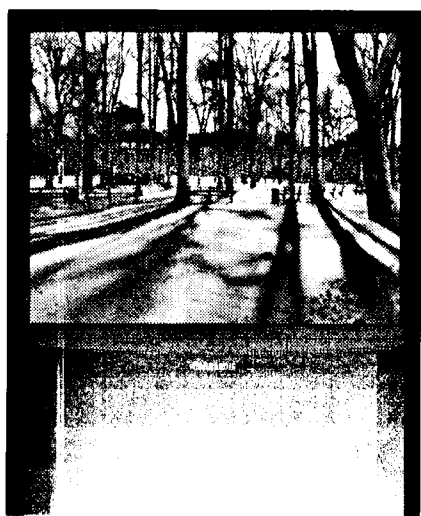


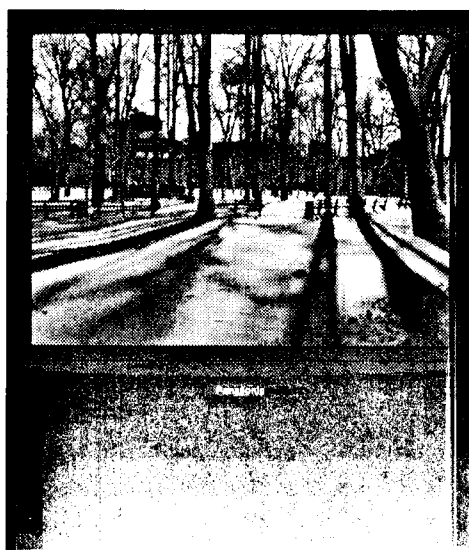
Panasonic®

Color Video Projection System

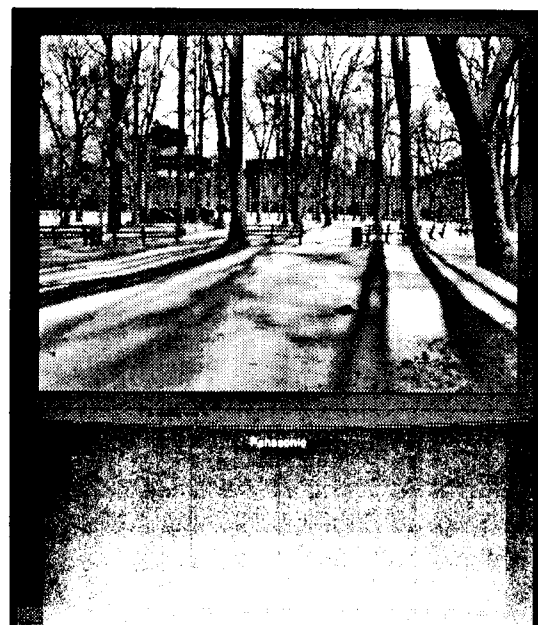
Operating Instructions



PT-46G41
PT-46G41C



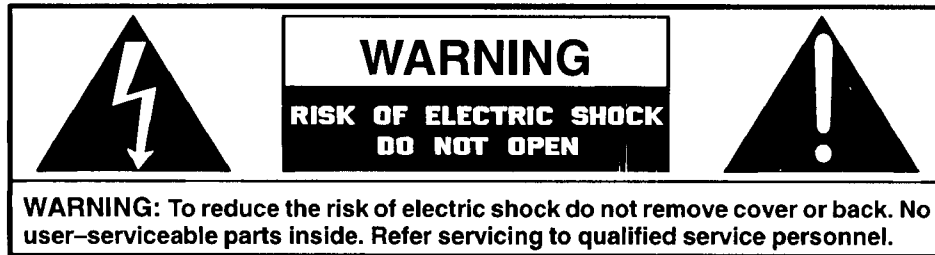
PT-51G41



PT-61G41

Read these instructions completely before operating.
Contents subject to change without notice or obligation.

Safety Instructions



The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

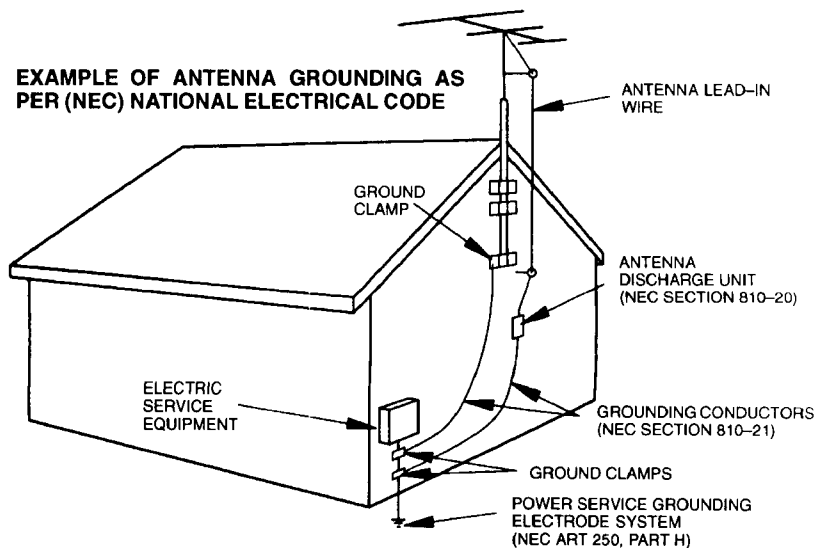


The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

Note To CATV System Installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Safety Instructions For Television Receivers

1. Read and apply the operating instructions provided with your television receiver.
2. Read all of the instructions given here and retain them for later use.
3. Unplug this television receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.
5. Do not use this television receiver near water. For example: Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
6. Do not place this television receiver on an unstable cart, stand or table. The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the television receiver on a bed, sofa, rug or other similar surface. This television receiver should never be placed near or over a radiator or heat register. This television receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
8. Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home consult your television dealer or local power company. For television receivers designed to operate from battery power, refer to the operating instructions.
9. This television receiver 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.
10. Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be abused by persons walking on it.
11. Follow all warnings and instructions marked on the television receiver.
12. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
13. Never push objects of any kind into this television receiver through cabinet slots 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 television receiver.



14. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810 of the National Electrical Code and in Canada Part 1 of the Canadian Electrical Code provides information with respect 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. See Figure.
15. For added protection for this television 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. This will prevent damage to the receiver due to lightning and power-line surges.
16. 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. Unplug this television receiver from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the television receiver.
 - c. If the television receiver has been exposed to rain or water.
 - d. If the television receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television receiver to normal operation.
 - e. If the television receiver has been dropped or the cabinet has been damaged.
 - f. When the television receiver exhibits a distinct change in performance – this indicates a need for service.
18. Do not attempt to service this television receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20. Upon completion of any service or repairs to this television receiver, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
21. **WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.**
22. **CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.**

NOTE: This equipment is designed to operate in the U.S.A., Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A. and Canada.

Important Information Regarding Use of Video Games, Computers, DSS or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent “shadow image” on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps:

- A. Reduce the brightness/contrast setting to a minimum viewing level.
- B. Do not display the fixed image for extended periods of time.
- C. Turn the power off when not in actual use.

NOTE: The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

Specifications

- Power Source:** 120V, 60Hz, AC
- Channel Capability:** 181 channels (See chart)
VHF 2~13, UHF 14~69, Cable 125 channels
- Video Input Jacks (2):** 1V p-p, 75 ohm, phono jack type
- Audio Input Jacks (2):** 500mV rms 47K ohm
- To Audio AMP Jacks:** 0~2.0V rms 4.7K ohm
- S-VHS Input Jack:** S-Video (Y-C) Connector
- Stereo Sound**
- Surround Sound**
- Closed Caption Display**
- Picture In Picture:** One Tuner

Specifications are subject to change without notice or obligation.

Channel Capability Chart

BAND	USA/CAN
VHF	12
UHF	56
CABLE (Mid-Band)	15
CABLE (Super Band)	14
CABLE (Hyper Band)	28
CABLE (Ultra Band)	56
TOTAL CHANNELS	181

Introduction

Congratulations on Your New Purchase

Your new video component features an all solid state chassis which is designed to give you many years of enjoyment. It was thoroughly tested and adjusted at the factory for best performance.

In order for you to take full advantage of your new video component, please read and follow the installation and operating instructions supplied with this product.

Customer's Record

The model and serial number of this product may be found on its back cover. You should note the model and serial number in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number: _____ Serial Number: _____

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Care and Cleaning

Plastic Cabinets

Wipe the cabinet with a soft cloth dampened with water or a mild detergent solution and wipe dry with a soft clean cloth. Avoid excessive moisture. Do not use benzene, thinners or other petroleum based cleaners.

Wood Cabinets

When dusting or polishing the cabinet, use a clean soft cloth and stroke straight with the grain. An occasional coat of furniture polish will help preserve the finish. Do not use benzene, thinners or other petroleum based cleaners. Do not place objects made of plastic or rubber directly on top of the cabinet. A chemical reaction could result causing permanent marring of the finish.

Remote Control Transmitter

Do not use benzene, thinners or other petroleum based cleaners to clean the Remote Control Transmitter. To clean, wipe with a soft cloth slightly moistened with a mild detergent and then wipe dry with a soft clean cloth. .

Screen Caution

Your Projection screen may be marred by accidental contacts or improper cleaning.

Avoid BUMPING or SCRAPING the screen BY ANY OBJECTS.

The projection screen is a high precision lens system, but it is fully washable by using these following precautions.

1. NEVER use window or glass cleaner, laundry detergent, automatic dishwasher soap, abrasive cleaners, products containing alcohol, ammonia or petroleum distillates.
2. NEVER rub across the screen in side to side motions.
3. NEVER use paper or other hard toweling materials.

Proper Cleaning Method

NOTE: Your projection screen is a high contrast black matrix type, which means it has black vertical stripes on its face, it will appear dark and this is normal.

- A. Projection screens do not attract dirt from the air as televisions with picture tubes. Therefore, most likely occasional dusting with a feather duster or very soft brush with straight downward strokes will suffice.
- B. Infrequent washing may be desired and can be done with weak solution of dish washing soap and a very soft lint free cloth folded into a flat pad. Avoid excessive solution on the cloth to prevent solution from running down below the screen into the Receiver.
- C. Remember to wash only in an up and down motion using little pressure against the screen. NOTE that very fine grooves exist between the black stripes which actually pass the picture to you. Improper cleaning can leave foreign deposits in these grooves and impair your viewing pleasure. Marring and scuffing will in a like manner produce imperfections upon your viewing conditions, so remember to guard against unnecessary screen contacts.

Installation

Receiver Location

This unit can be used as an entertainment center. Consult your dealer for available options.

Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.

Use of some types of fluorescent lighting can reduce remote control transmitter range.

Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture.

To insure optimum color purity do not position magnetic equipment (motors, fans, other speakers, etc.) nearby.

Optional External Equipment Connections

The Video/Audio connections between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75 ohm coaxial shielded wire. Cables are available from your dealer or electronic supply house.

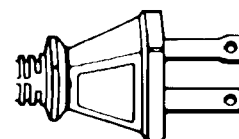
Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you'll need.

Condensation

When the set is moved into a warm room from a cold area, the picture may become out of focus because of condensation on the lens surface due to the temperature change. Picture will become clear when the set reaches the same temperature of the surrounding area.

AC Power Supply Cord

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT. DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.



Polarized Plug

Remote Control Battery Installation

Batteries: Use two "AA" batteries.

1. Install the batteries as shown in the battery compartment. (Polarity (+) or (-) must be correct.)

Helpful Hints:

For frequent Remote Control users, replace old batteries with Alkaline batteries for longer life.

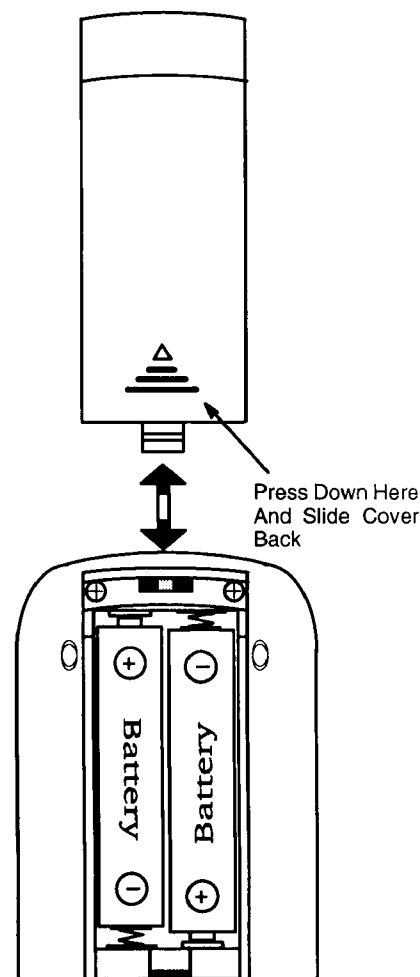
CAUTION: Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control Transmitter.

Observe the Following Precautions:

1. Batteries should be replaced as a pair. Always use new batteries.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (Example: "Zinc Carbon" with "Alkaline").
4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
5. Battery replacement is necessary when Remote Control reacts sporadically or stops operating the Receiver.

Helpful Hints:

Whenever you remove the batteries to replace them, you may need to reset the Remote Control Infrared Codes.

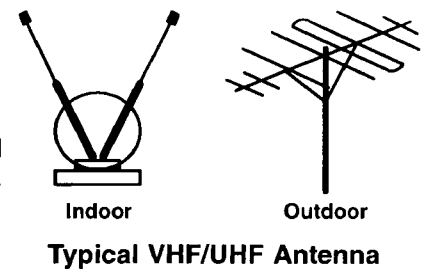


Press Down Here And Slide Cover Back

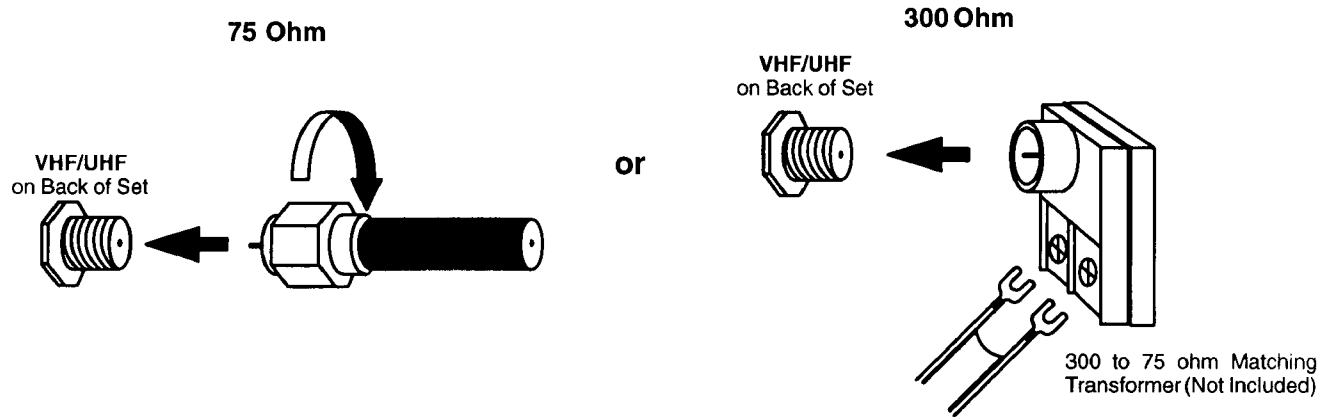
Installation (cont.)

Antenna/Cable Connections

Antenna Connection – For proper reception of VHF/UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended. **Antenna Mode must be set to TV.** (Refer to Antenna Mode section.)

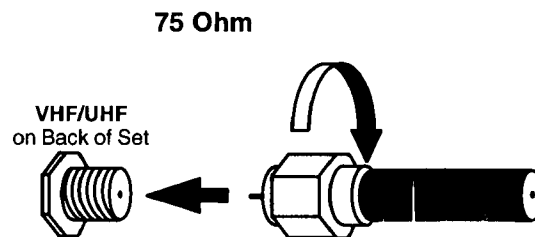


Incoming Cable from Home Antenna



Cable Connection – For reception of cable channels, connect the cable supplied by your local cable company. **Antenna Mode must be set to CABLE.** (Refer to Antenna Mode section.)

Incoming Cable from Cable Company



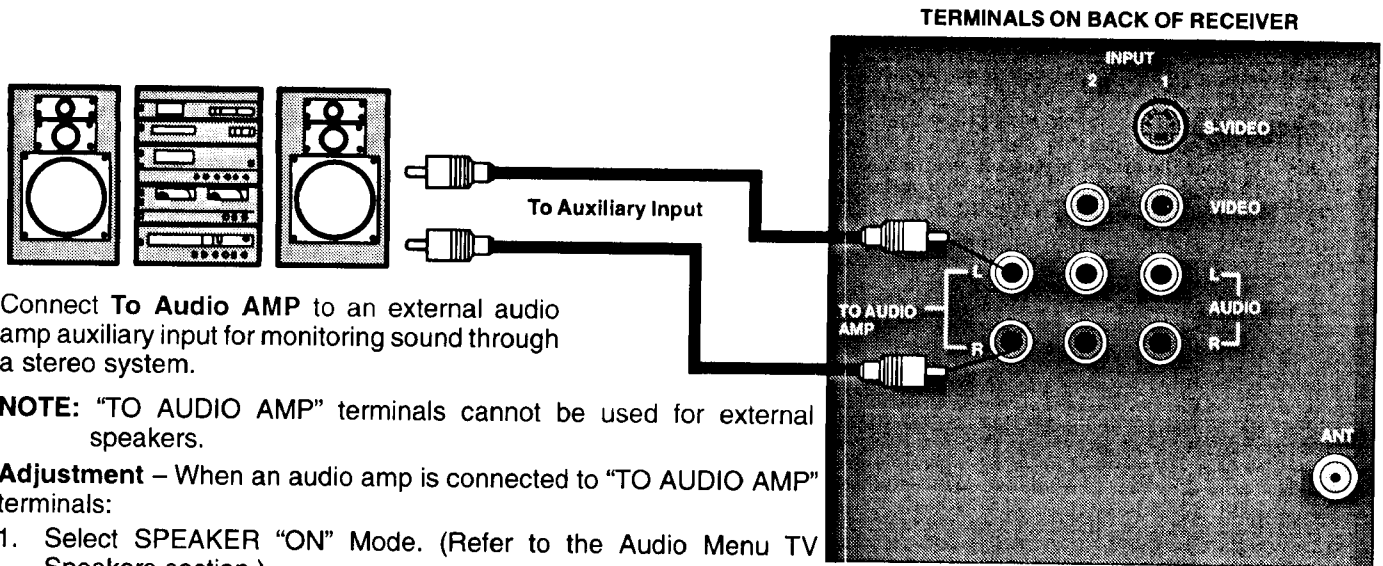
Note: Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local Cable company for compatibility requirements.

Other Video Equipment

VCRs, Video Disc Players, Computers, TV games, and DSS equipment can also be connected to the antenna input connection.

Optional Equipment Connection and Operation

To Audio AMP Connection (Stereo)



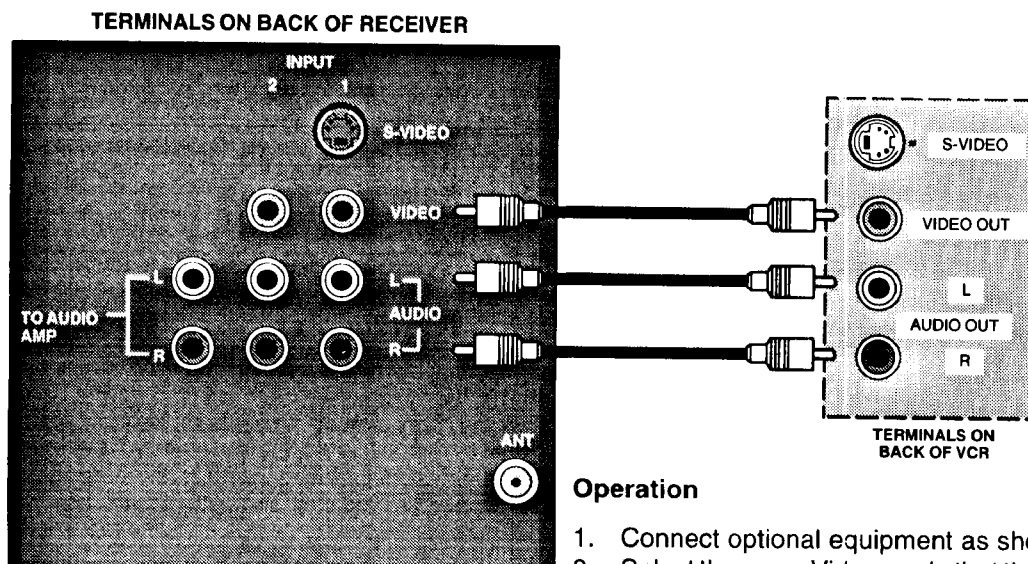
Connect **To Audio AMP** to an external audio amp auxiliary input for monitoring sound through a stereo system.

NOTE: "TO AUDIO AMP" terminals cannot be used for external speakers.

Adjustment – When an audio amp is connected to "TO AUDIO AMP" terminals:

1. Select SPEAKER "ON" Mode. (Refer to the Audio Menu TV Speakers section.)
2. Set volume of audio amp to near minimum.
3. Adjust volume of TV to desired listening level.
4. Adjust volume of audio amp to match the level of TV.
5. Select TV SPEAKERS "OFF&VAO" (Variable Audio Output) Mode. (Refer to the Audio Menu Speaker section.)
6. Audio bass, treble, balance, volume, and mute can now be controlled by the TV Remote Control. When "OFF&FAO" (Fix Audio Output) mode is selected in the Audio Menu, the external amplifier speakers are controlled by the Audio Amplifier.

Audio/Video Connection

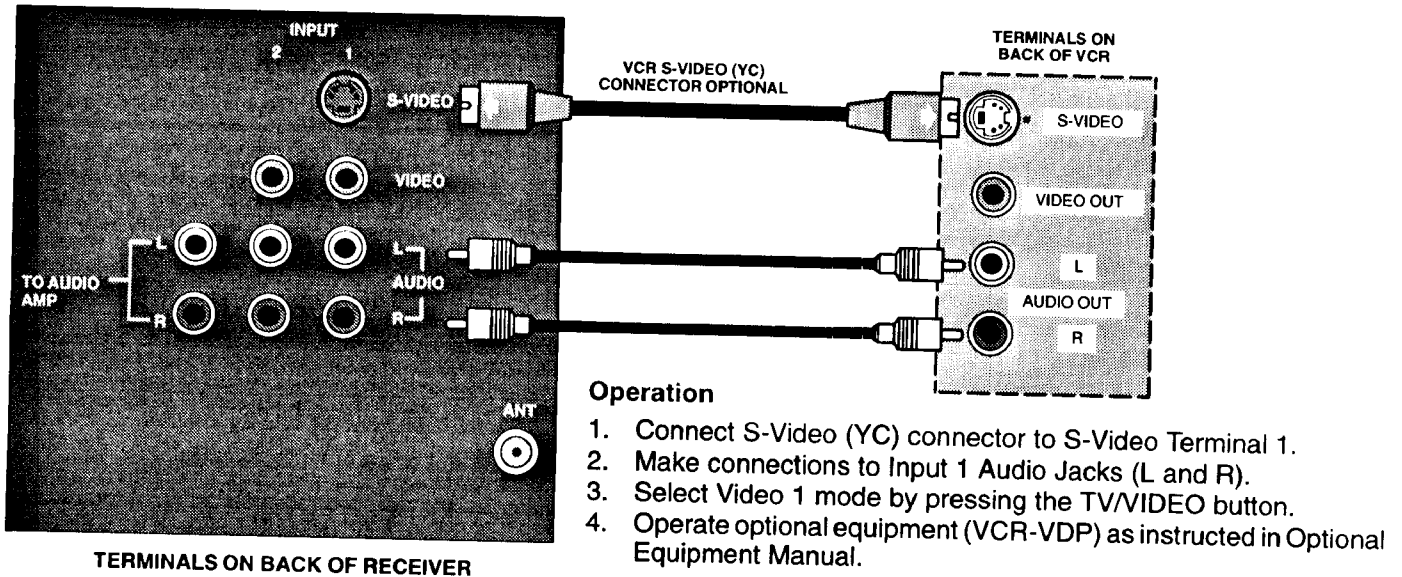


Operation

1. Connect optional equipment as shown to INPUT 1 or 2.
2. Select the same Video mode that the equipment is connected to, by pressing the TV/VIDEO button.
3. Operate optional equipment (VCR-VDP) as instructed in Optional Equipment manual.

Optional Equipment Connection and Operation (cont.)

S-Video Connection

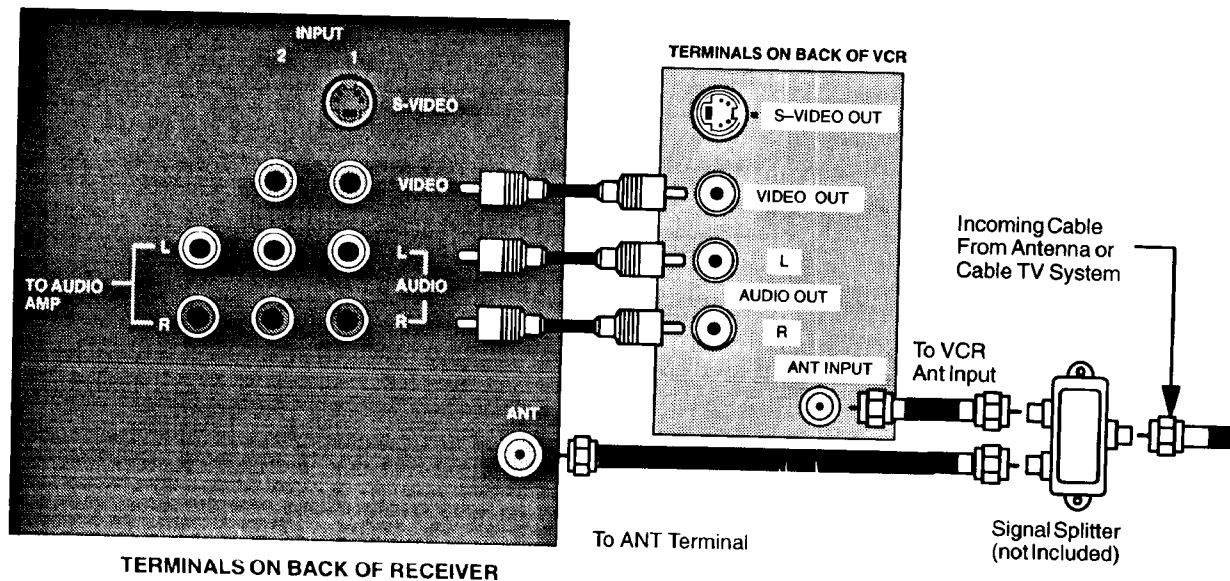


Helpful Hints:

The user must select the same VIDEO Mode that the equipment is connected to.
 Connection of optional S-VIDEO jack automatically disconnects the normal Video Input 1 jack.

Picture in Picture External Video and Antenna Connection

This Receiver has the "PICTURE IN PICTURE" feature. For the proper operation of this feature a second video source is required (such as a VCR). We recommend that you make your antenna and External Video connection as shown below when a second video source is available.

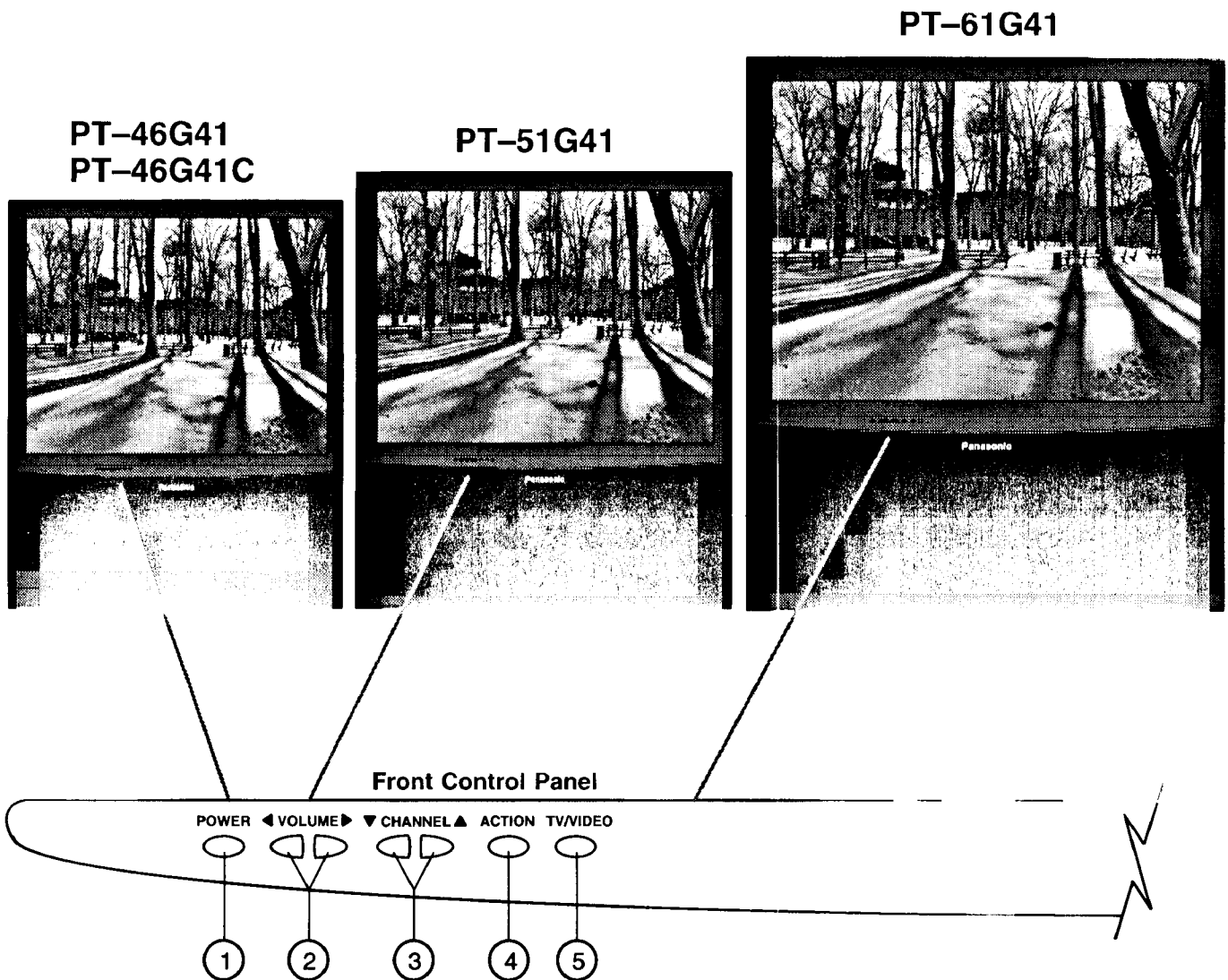


Helpful Hints:

The PIP will operate using Audio/Video input terminals. Use the TV/VIDEO button (when the PIP frame is displayed) to select proper mode.

The PIP feature will operate using S-Video input terminal 1.

Location of Controls (Receiver)



Quick Reference Control Operation

- ① **Power Button** – Press to turn ON or OFF.
- ② **Volume Buttons** – Press to adjust Sound Level. Press to adjust Audio Menus, Video Menus, and select operating features when menus are displayed.
- ③ **Channel Buttons** – Press to select programmed channels. Press to highlight desired features when menus are displayed.
- ④ **Action Button** – Press to display Main Menu and access or exit On-Screen feature and Adjustment Menus.
- ⑤ **TV/Video Button** – Press to select TV, or one of two Video Inputs for the Main Picture, or the PIP frame (when the PIP frame is displayed).

Location of Controls (Remote Control)

Power Button
Press to turn ON or OFF.

TV/Video Button
Press to select TV or Video Input.

Volume Buttons
Press to adjust TV sound level. Use with Channel buttons to navigate in menus.

Keypad Buttons
Press desired channel number to randomly access any channel.

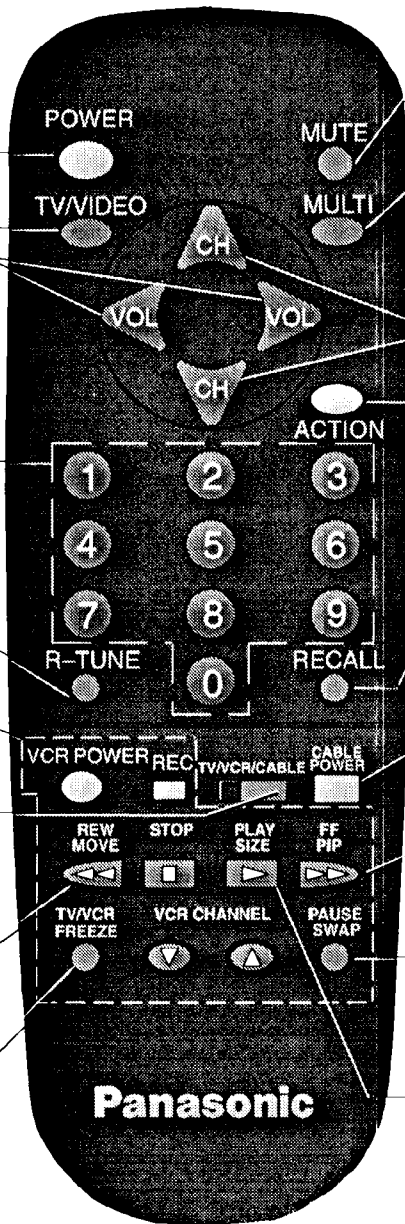
R-Tune (Rapid Tune) Button
Press to switch to the previous channel.

VCR Function Buttons
Programmable to operate many brands of VCR's.

TV/VCR/CABLE Switch
This switch is used to select the proper mode when programming Remote Control Infrared codes or operating the TV or external equipment (VCR or Cable Converter box).

PIP Move Button
Press to position PIP frame to any corner of the Main Picture (when PIP frame is displayed).

PIP Freeze Button
Press to stop action in the Main Picture or PIP frame (when the PIP frame is displayed).



EUR511001A

Mute Button
Press to mute sound. A second press resumes sound. Press also to access and delete Closed Caption.

Multi Button
Programmable to operate up to six Remote Control Function buttons simultaneously.

Channel Buttons
Press to select channels. Use with Volume buttons to navigate in menus.

Action Button
Press to display Main Menu and access or exit On Screen feature and Adjustment Menus.

Recall Button
Press to display Time, status of Sleep Timer, Channel, Video Mode, Channel Caption (Station Identifier) and Audio Mode.






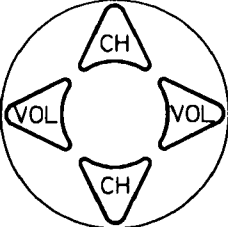


Cable Power Button – Programmable to operate selected CATV converter boxes.

PIP (Picture In Picture) Button
Press to display the PIP frame, press again to remove PIP frame.












PIP Swap Button
Press to interchange PIP frame with Main Picture (when the PIP frame is displayed).

PIP Size Button
Press to select size of PIP frame (when the PIP frame is displayed).

Remote Control Quick Reference Functional Key Chart

KEY	OPERATES	FUNCTION
POWER 	TV	Turns TV On and Off
MUTE 	TV	Mutes TV Audio
TV/VIDEO 	TV	Selects the TV Input Mode
MULTI 	ALL COMPONENTS	Programmable Button that can operate up to six (6) Remote Functions at once
 ACTION	TV	Activates TV Menus
	TV CABLE TV CABLE VCR	Channel Up/Down, Menu Navigation Channel Up/Down Volume Up/Down, Menu Navigation Search for Infrared Code when Programming Remote
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	TV VCR CABLE	Selects Channel Selects Code in Game Guard Menu Selects Channel in Channel Caption Menu Selects Channel in Timer Menu Selects Infrared Code when Programming Remote Selects Infrared Code when Programming Remote
R-TUNE 	TV	Switches Between Two (2) Channels
RECALL 	TV	Displays Channel (or Video Mode), Channel Caption, Time, Sleep Time, and Audio Mode


Remote Control Quick Reference Functional Key Chart (cont.)

KEY	OPERATES	FUNCTION
TV/VCR/CABLE 	TV VCR CABLE	TV Mode Selection for Remote Control VCR Mode Selection for Remote Control CATV Mode Selection for Remote Control
CABLE POWER 	CABLE	Turns Cable On and Off
VCR POWER 	VCR	Turns VCR On and Off
REC 	VCR	Record
STOP 	VCR	Stop
VCR CHANNEL 	VCR	VCR Channel Up/Down
FF PIP 	TV VCR	PIP ON/Off Fast Forward
PLAY SIZE 	TV VCR	PIP Size Play
REW MOVE 	TV VCR	PIP Move Rewind
PAUSE SWAP 	TV VCR	PIP Swap Pause
TV/VCR FREEZE 	TV VCR	PIP Freeze Selects TV/VCR Mode

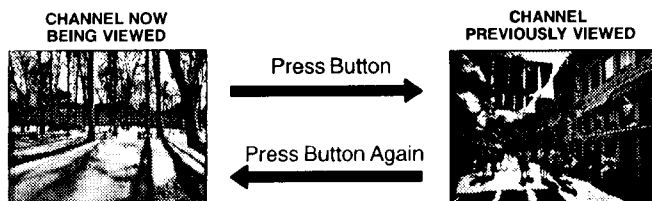
Special Functions

R-Tune Button

R-TUNE

Pressing  will switch between the last two channels selected on the numeric keypad.

NOTE: When scanning channels with the CHANNEL UP/DOWN button, pressing the R-TUNE button will switch between the last two channels scanned.

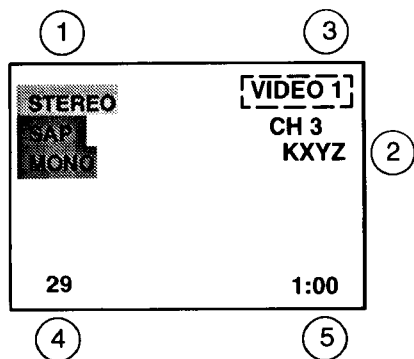


Recall Button

RECALL


Press  to review:

- ① Audio Mode Status
- ② Channel Caption (Station Identifier)
- ③ CH Number Or Video Input Selected
- ④ Sleep Timer Status
- ⑤ Clock Time



Cable Power Button

CABLE POWER

The  on the Remote Control has been designed to operate selected brands of Cable Television Converter boxes. The proper cable television converter box infrared code must be obtained prior to use. (Please refer to Programming the Universal Remote for programming instructions.) The Remote Control TV/VCR/CABLE switch should be in the CABLE position.

NOTE: The  or  on the Remote may be used for selecting Cable Converter box channels.

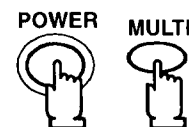
Multi Button

The MULTI button can be programmed to operate up to 6 Remote function buttons at the same time.

For Example: TV Power/On, VCR Power/On (selected brands) can be operated at the same time with one press of the MULTI button.

Procedure

1. First program the Remote for the selected VCR Infrared access code. Confirm that the Remote Control is compatible with the equipment.
2. Face the Remote Control transmitter away from all equipment remote sensors.
3. Press and hold down the Remote TV Power button, then press and hold down the MULTI button at the same time. Release buttons (All previous commands will be erased.)

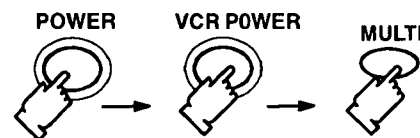


PRESS SIMULTANEOUSLY

4. Press a maximum of 6 Function buttons on the Remote.
Each button you press is equal to one function. If six Remote button functions are entered, all will register in the MULTI button memory in the sequence entered. When less than six Remote button functions are entered, press the MULTI button to end the program mode. (Waiting more than 30 seconds without pressing another button will also end the program mode.)

The following is an example of Remote functions that can be programmed into the MULTI button.

- TV Power - For turning TV ON and OFF.
 - VCR Power - For turning VCR ON and OFF (selected brands after programming it's Infrared access code, if necessary).
- Both can be turned ON or OFF with one press of the MULTI button.



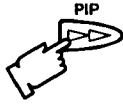
To delete entered functions - Repeat step 3. Now you can enter from one to six different Remote functions.

NOTE: You can also program the MULTI button to perform most individual Remote Control button functions. Buttons which continuously perform a function as long as pressed (Volume Up/Down, Channel Up/Down, etc.) cannot be programmed. Only those buttons which perform a function when initially pressed (Power On/Off, Mute, Direct Channel Entry, etc.) can be programmed.

Special Functions (cont.)

PIP (Picture in Picture) Button – This feature allows monitoring one channel while watching another when a second video source with a tuner is connected (such as a VCR) to the TV.

NOTE: When the Main Picture is in Video mode with no signal, the PIP will not operate properly.

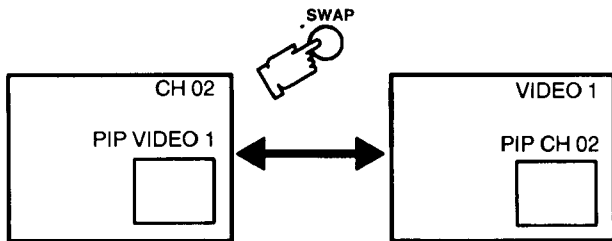


PIP Operation

1. Turn VCR ON and select a desired channel.
2. Place the TV/VCR/CABLE switch on the Remote Control into TV position.
3. Press the PIP button (TV must be ON). The PIP frame will appear at the position it was last displayed. The Main Picture Video Source and PIP Video Source will display on screen momentarily. Audio will be that of Main Picture.
4. Press the PIP button again to cancel PICTURE IN PICTURE feature (if desired).

NOTE: For PIP Video source connection, refer to the PIP External Video and Antenna Connections section.

PIP Swap Button – Press the SWAP button (when the PIP frame is displayed) to interchange what is being viewed on the Main Picture with that of the PIP frame.

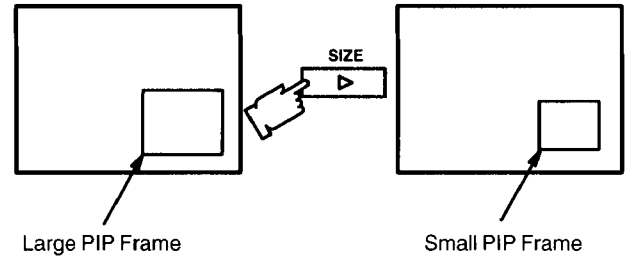


- Audio will be that of the Main Picture.

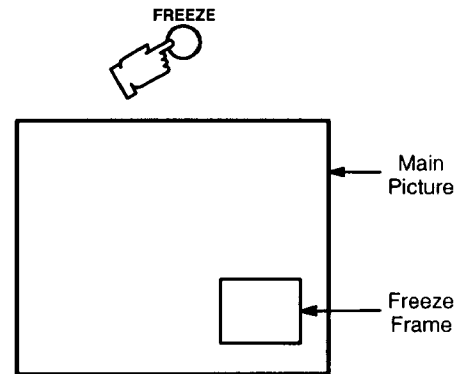
Helpful Hints:

- The TV/VCR/CABLE Switch should be in the TV position (LEFT) before operating PIP buttons.

PIP Size Button – Press the SIZE button (when the PIP frame is displayed) to choose either the large or small PIP frame.



PIP Freeze Button – Press the FREEZE button to stop action in the Main Picture or PIP frame.

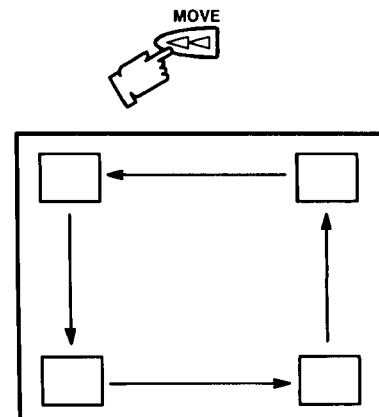


NOTE:

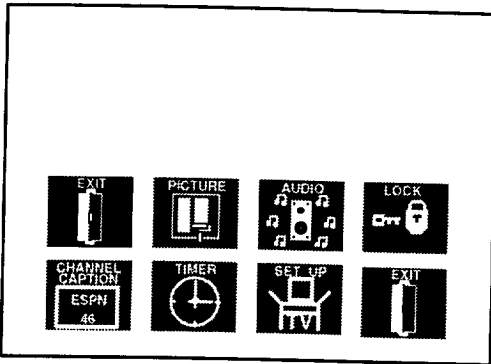
- Pressing the FREEZE button when the PIP frame is not displayed will stop action in the Main Picture and display it on the PIP frame.
- Pressing the FREEZE button when PIP frame is displayed will stop action in the PIP frame, press the FREEZE button again to continue action.
- Press the PIP button to delete PIP frame.

PIP Move Button – The PIP frame may be located at any corner of the Main Picture by pressing the PIP MOVE button (when the PIP frame is displayed).

NOTE: Each time MOVE button is pressed (when the PIP frame is displayed), the PIP frame will move (counterclockwise) as illustrated.



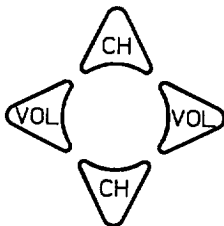
Main Menu Icons



NOTE: When Auto Power On feature is activated, Timer Icon will change to Exit Icon.



Display and Exit Menus



CH BUTTONS
Highlight Desired
Feature when
Menu is Displayed

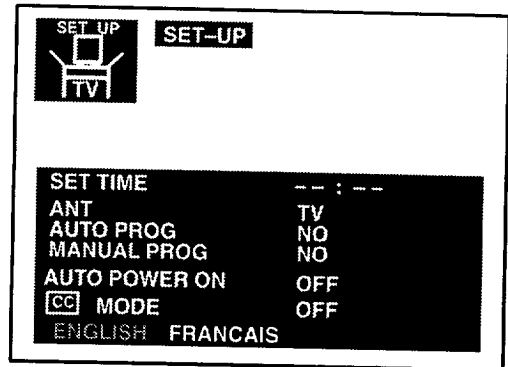
VOL BUTTONS
Selects or Adjusts
Features when
Menu is Displayed

Located On Remote Control

Language Menu Selection

The LANGUAGE MENU is factory set to ENGLISH. Follow the instructions to change the Language Menu to FRENCH, and back to ENGLISH.

1. Press **ACTION**.
2. Press **CH** or **CH** and **VOL** or **VOL** to highlight the Set-Up Icon.
3. Press **ACTION** to display the Set-Up Menu.









4. Press **CH** or **CH** to highlight ENGLISH, FRANÇAIS.
5. Press **VOL** or **VOL** to select ENGLISH, or FRANÇAIS.
6. Press **ACTION** twice to exit menus.

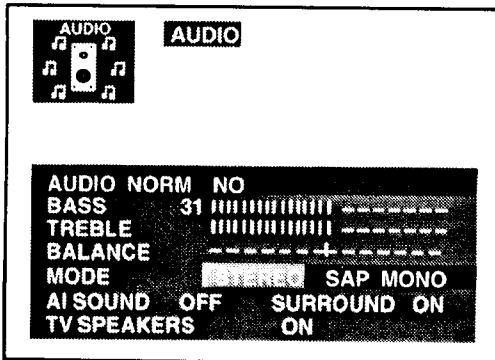
1. Press **ACTION**.
2. Press **CH** or **CH** and **VOL** or **VOL** to select the desired Icon.
3. Press **ACTION** after selecting the desired Icon to access sub menus.
4. Press **ACTION** twice to exit sub menus or press **ACTION** once while the EXIT Icon is highlighted to exit Main Menu.






Audio Adjustments

Audio Norm







This feature is used to reset BASS, TREBLE, and BALANCE back to a factory preset level. **NOTE:** Bass and Treble is automatically set when AI Sound is ON.

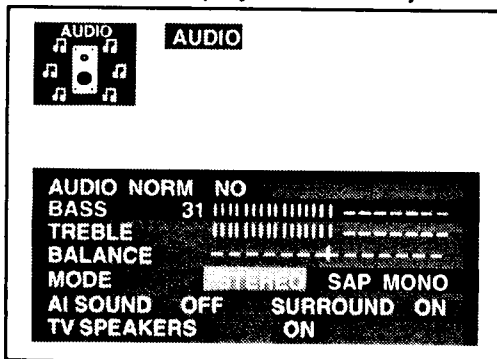
1. Press .
2. Press  or  and  or  to highlight the Audio Icon.
3. Press  to display the Audio Adjustment Menu.








4. Press  or  to highlight AUDIO NORM.
5. Press  or  to select SET to normalize Bass, Treble, and Balance.
6. Press  twice to exit menus.

Bass, Treble, and Balance

1. Press .
2. Press  or  and  or  to highlight the Audio Icon.
3. Press  to display the Audio Adjustment Menu.









4. Press  or  to highlight BASS, TREBLE, or BALANCE.
5. Press  or  to adjust for desired audio response.
6. Press  twice to exit menus.

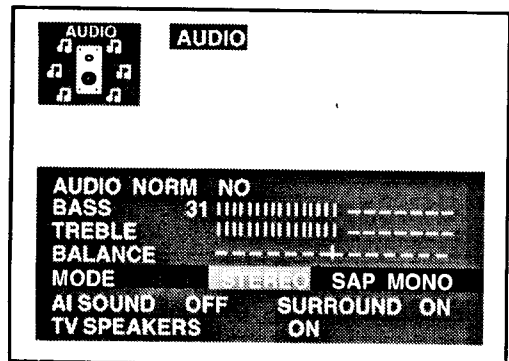
Helpful Hints:






- BASS** – To increase or decrease the Bass response.
- TREBLE** – To increase or decrease the Treble response.
- BALANCE** – To emphasize the LEFT/RIGHT speaker volume.

Mode

When Audio is broadcast in Stereo or SAP, an On-Screen display will appear on initial "Turn On" and "Channel Change". The available choices will be highlighted.

1. Press .
2. Press  or  and  or  to highlight the Audio Icon.
3. Press  to display the Audio Adjustment Menu.









4. Press  or  to highlight MODE.
5. Press  or  to select STEREO, SAP (Second Audio Programming), or MONO. The selected mode will be highlighted.
6. Press  twice to exit menus.

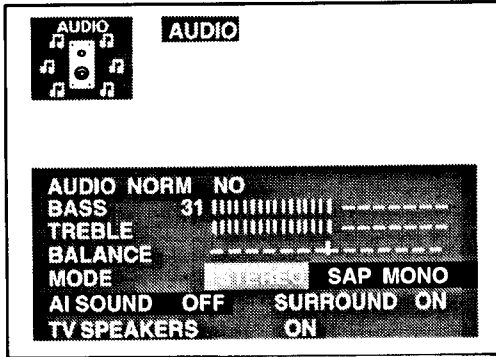
Helpful Hints:






- STEREO** – Two channel Audio reception.
- SAP** – Second Audio Programming (typically used for bilingual audio).
- MONO** – Use when stereo signal is weak.

AI Sound

This feature regulates the volume between programs and commercial audio to maintain a constant sound output level.







1. Press .
2. Press  or  and  or  to highlight the Audio Icon.
3. Press  to display the Audio Adjustment Menu.

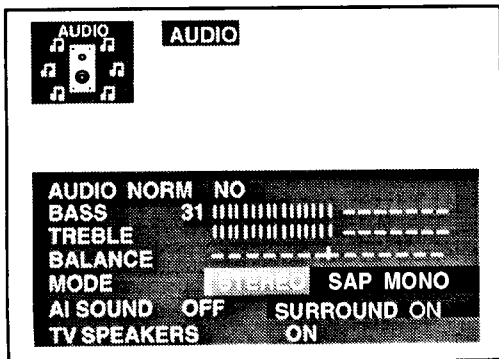







4. Press  or  to highlight AI SOUND.
5. Press  or  to select ON or OFF.
6. Press  twice to exit menus.

Surround

Use the Surround Feature to enhance audio response when listening to Stereo broadcasts.







1. Press .
2. Press  or  and  or  to highlight the Audio Icon.
3. Press  to display the Audio Adjustment Menu.

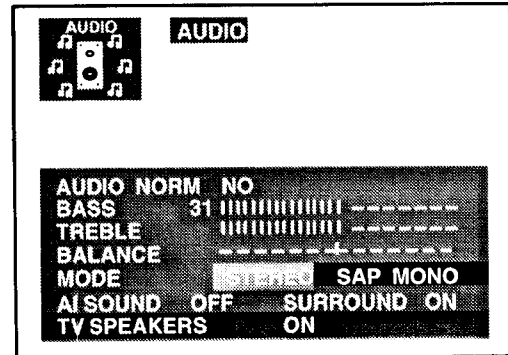







4. Press  or  to highlight SURROUND.
5. Press  or  to select ON or OFF.
6. Press  twice to exit menus.

TV Speakers

This feature is used to turn the internal speakers "ON" or "OFF". It is used when the TV is connected to an External Audio Amplifier. (Refer to "To Audio Amp Connection" section for further information.)







1. Press .
2. Press  or  and  or  to highlight the Audio Icon.
3. Press  to display the Audio Adjustment Menu.

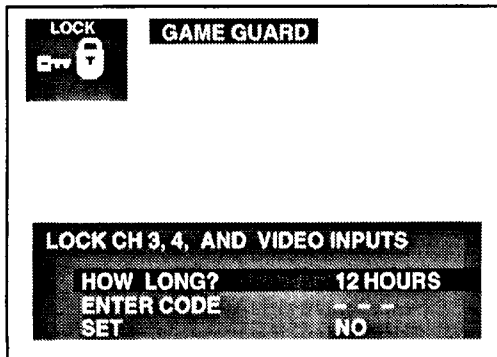





4. Press  or  to highlight TV SPEAKERS.
5. Press  or  to select ON, OFF&VAO or OFF&FAO.
 - ON – TV SPEAKERS operate normally.
 - OFF&VAO (Variable Audio Output) – TV SPEAKERS off, the sound output varies according to the TV volume. Use the TV remote to control the volume, muting, bass, treble, and balance of the External Amplifier System.
 - OFF&FAO (Fixed Audio Output) – TV SPEAKERS off, sound output is not adjustable. The audio is controlled by the External Amplifier System volume control.
6. Press  twice to exit menus.

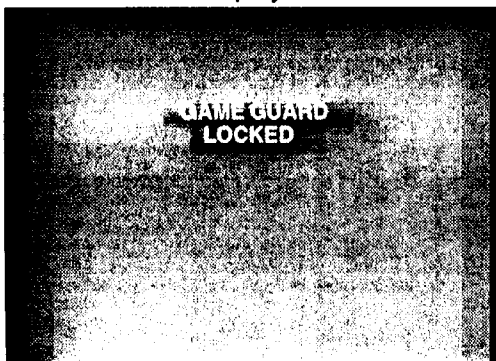
Lock Game Guard

Prevents video games and other video sources from being viewed. Channel 3, 4 and video inputs are locked out for 12, 24 or 48 hours. **NOTE:** Be sure to understand this feature before attempting its use. **Use a code that you will easily remember or write down code on a piece of paper.**

1. Press  .
2. Press  or  and  or  to highlight the Lock Icon.
3. Press  to display the Lock Menu.



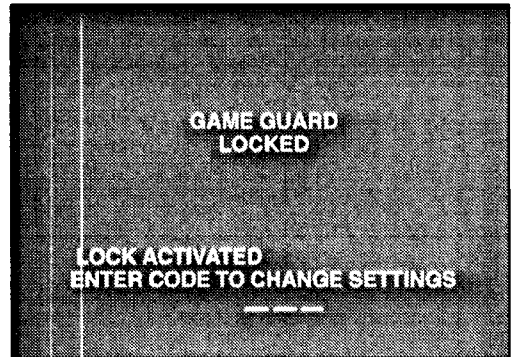
4. "HOW LONG" should already be highlighted. Press  to select the desired amount of time (12, 24 or 48 hours) for Game Guard Lockout to be activated.
5. Press  to highlight ENTER CODE. Then enter a 3 digit code with the Remote Control Keypad. "SET" should be highlighted after entering the last digit. **IMPORTANT NOTE: Use a code you can easily remember or write down the code on a piece of paper.**
6. Press  after entering three digit code. "Game Guard Locked" will display On Screen.



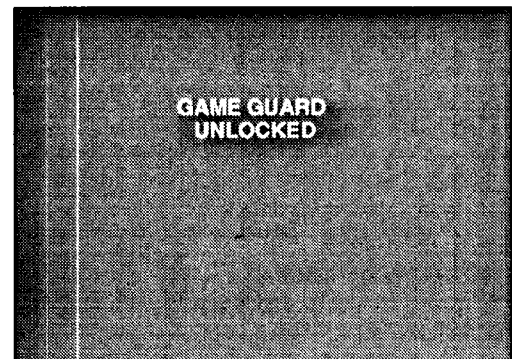
Game Guard Activated

Unlock Game Guard

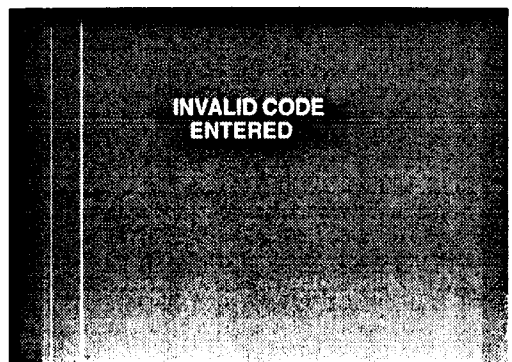
To unlock the Game Guard feature, repeat steps 1 through 3. Enter the same 3 digit code previously used in step 5 with Remote Control Keypad.



Enter Same 3 Digit Code Previously Used



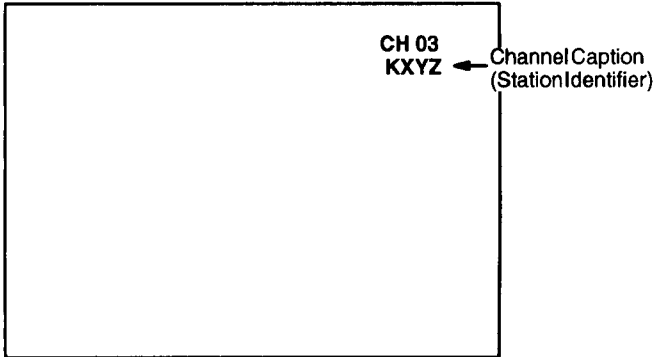
If 3 Digit Code Is The Same



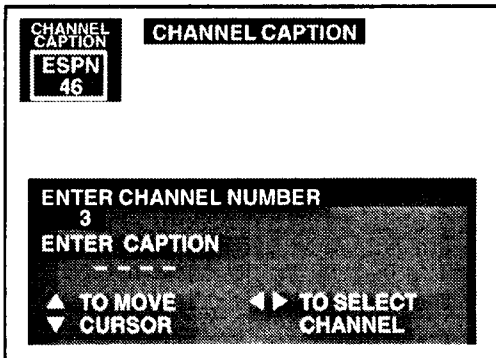
If 3 Digit Code Is Not The Same

Channel Caption

This feature allows you to enter the call names of up to 30 stations into memory (using up to 4 characters for each station). The call name will then display along with the channel number when changing channels or pressing RECALL.



1. Press **ACTION**.
2. Press **CH** or **CH** and **VOL** or **VOL** to highlight the Channel Caption Icon.
3. Press **ACTION** to display the Channel Caption Menu.



4. Press **VOL** or **VOL**, or use the Remote Control Keypad to enter the channel number you wish to assign a Station Identifier.
5. Press **CH** to highlight ENTER CAPTION.
6. Press **VOL** or **VOL** to select first character in Station Identifier. Then press **CH** to move cursor to the second position and repeat until the complete Station Identifier is entered (up to 4 characters).
7. Press **CH** or **CH** to highlight ENTER CHANNEL NUMBER. Then repeat steps 4 through 7 to continue adding Channel Station Identifier(s).
8. Press **ACTION** twice to exit menus.

NOTE: To delete a Channel Caption (Station Identifier) from memory all four character positions in the "ENTER CAPTION" area must display a dash mark (-).

Helpful Hints:

When the Maximum amount of station identifiers are entered, "FULL" will be displayed in the caption position.

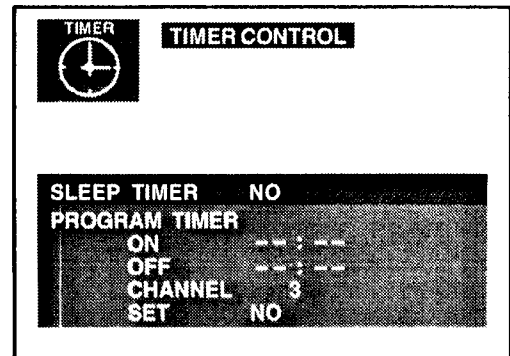
Timer Features

Sleep Timer

This feature is used for automatic turn off in 30, 60 or 90 minutes. Display will flash 3, 2 and 1 to indicate the last three remaining minutes prior to turn off. The Recall display will also appear.

NOTE: This feature will be disabled when Auto Power On is activated.

1. Press **ACTION**.
2. Press **CH** or **CH** and **VOL** or **VOL** to highlight the Timer Icon.
3. Press **ACTION** to display the Timer Control Menu.



4. Press **VOL** to select NO, 30, 60 or 90 minutes (Sleep Timer will be activated).
5. Press **ACTION** twice to exit menus.

NOTE: To deactivate Sleep Timer repeat steps 1 through 4. In step 4 select "NO" instead of minutes.

Helpful Hints:

Press the RECALL button to display the remaining minutes for Sleep Timer, the status will display in the bottom left corner.

Timer Features (cont.)

Special Feature:

Automatic turn "OFF" after 90 minutes.

The TV has a special feature that will shut itself **OFF** after 90 minutes when turned **ON** by the program timer unless a function key is pressed during the 90 minutes.

This feature is useful so that the TV will not remain **ON** unattended for an extended period of time.

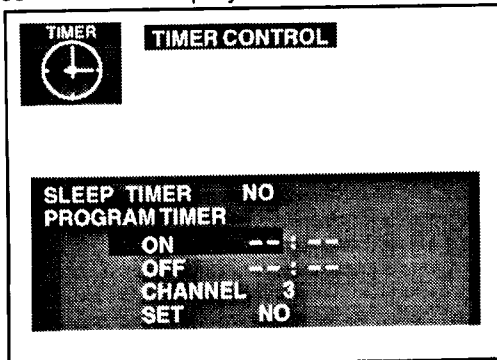
Programming the **OFF** timer will cancel the automatic **OFF** Special Feature.

Program Timer

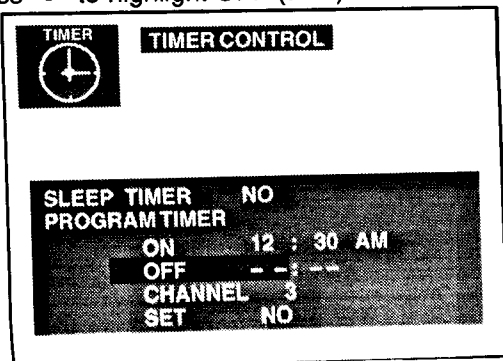
This feature is capable of turning the TV on, tuned to a desired channel and off at a predetermined time (one day or daily). The clock must be set for this feature to operate. (Refer to the Set-Up Menu to set time.)

NOTE: This feature will be disabled when Auto Power On is activated.

1. Press **ACTION**.
2. Press **CH** or **CH** and **VOL** or **VOL** to highlight the Timer Icon.
3. Press **ACTION** to display the Timer Control Menu.

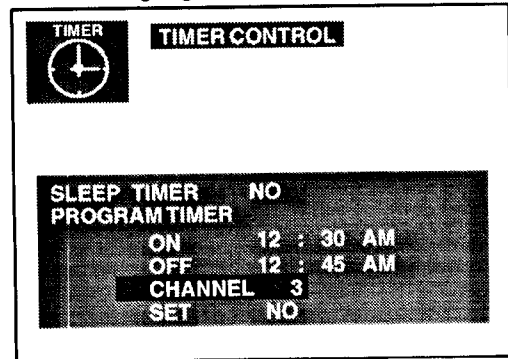


4. Press **CH** to highlight ON (time).
5. Press **VOL** or **VOL** repeatedly to set hours (set AM/PM accordingly).
6. Press **CH** to highlight the minutes position.
7. Press **VOL** or **VOL** repeatedly to set minutes.
8. Press **CH** to highlight OFF (time).



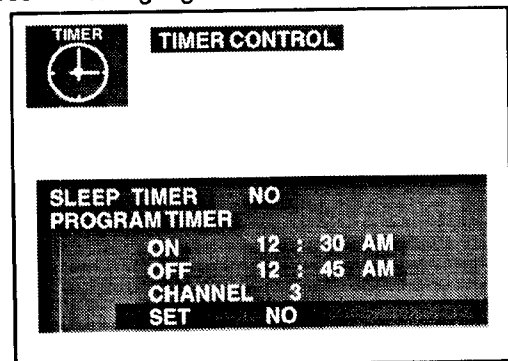
9. Repeat steps 5 through 7 for setting OFF (time).

10. Press **CH** to highlight CHANNEL.



11. Press **VOL** or **VOL** or use the Remote Control Keypad to enter the channel number desired when the set turns "ON".

12. Press **CH** to highlight SET.



13. Press **VOL** to select:
 - NO – not activated
 - ONE DAY – activated
 - DAILY – activated

14. Press **ACTION** twice to exit menus.

NOTE: To deactivate Program Timer select NO in step 13.

Helpful Hints:







- If the Program Timer "ON" functions while the set is operating, the set will automatically tune to the channel designated in the Timer Program.

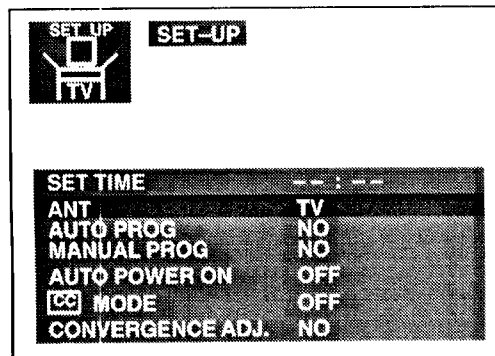
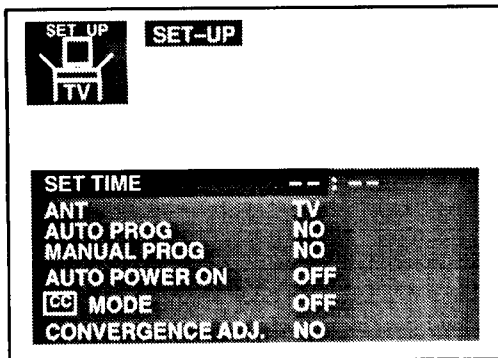
Set-Up Features





Set Time

Clock (when set) will display on screen at initial "Turn On", after a channel change and when pressing the RECALL button. The time must be set first in order to operate the Program ON/OFF Timer.

NOTE: This feature will be disabled when Auto Power On is activated.

1. Press .
2. Press  or  and  or  to highlight the Set-Up Icon.
3. Press  to display the Set-Up Menu.









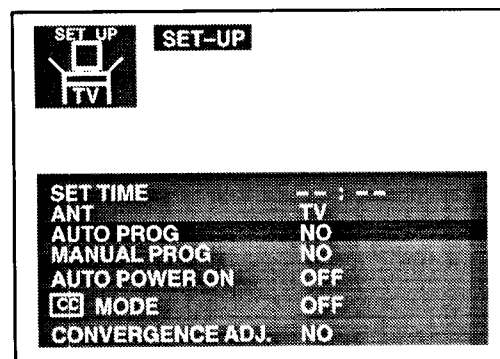
4. Press  to highlight ANT.
5. Press  or  to select TV or CABLE.
6. Press  twice to exit menus.





Auto Prog

This feature allows you to place all channels with a video signal into Channel Scan Memory.







NOTE: This feature is disabled when Game Guard Lock is activated.

1. Press .
2. Press  or  and  or  to highlight the Set-Up Icon.
3. Press  to display the Set-Up Menu.



4. Press  to highlight AUTO PROG.
5. Press  or  to start Auto Programming. Channels will automatically advance until all channels have been scanned.
6. Press  twice after completion of Auto Programming to exit menus.

NOTE: Channel numbers with signal present will turn blue which indicates stored in Channel Scan Memory.







4. Press  or  to set hours (set AM/PM accordingly).
5. Press  to select minutes position.
6. Press  or  repeatedly to set minutes.
7. Press  twice to exit menus.

Antenna (Ant)

The proper Input mode must be selected for the type of signal at the antenna input.

NOTE: This feature is disabled when Game Guard Lock is activated.

- TV mode is used when the Receiver is not connected to a cable TV system, for example when using a VHF/UHF antenna (channels 02 – 69).
- Cable mode is used when the Receiver is connected to a Cable TV system and you are not using a cable company converter box (channels 01 – 125).







1. Press .
2. Press  or  and  or  to highlight the Set-Up Icon.
3. Press  to display the Set-Up Menu.

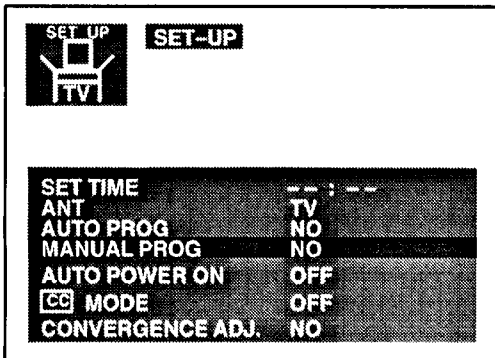
Set-Up Features (cont.)




Manual Prog

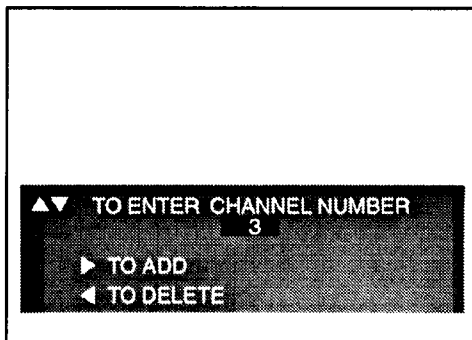
This feature allows you to select which channels are placed into Channel Scan Memory.






NOTE: This feature is disabled when Game Guard Lock is activated.

1. Press .
2. Press  or  and  or  to highlight the Set-Up Icon.
3. Press  to display the Set-Up Menu.



4. Press  to highlight MANUAL PROG.
5. Press  or  to display the Manual Programming Menu.









6. Use the  or  or the Remote Keypad "0 through 9" buttons to select channels.
7. Press  to **add** channel(s) to memory (Blue). Press  to **delete** channels from memory (Yellow).
8. Repeat steps 6 and 7 to continue adding or deleting channels.
9. Press  twice to exit menus.

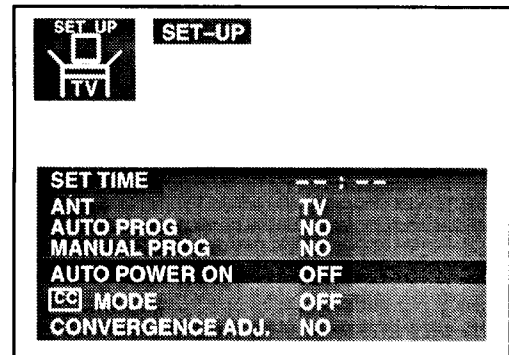
Auto Power On





This feature allows the user to power up the TV at the same time as the cable box (or other components). Of course, the TV must be plugged into the cable box.

NOTE: When this feature is activated (on), Timer features will be disabled.

1. Press .

2. Press  or  and  or  to highlight the Set-Up Icon.
3. Press  to display the Set-Up Menu.










4. Press  to highlight AUTO POWER ON.
5. Press  or  to select SET or OFF.
6. Press  twice to exit menus.

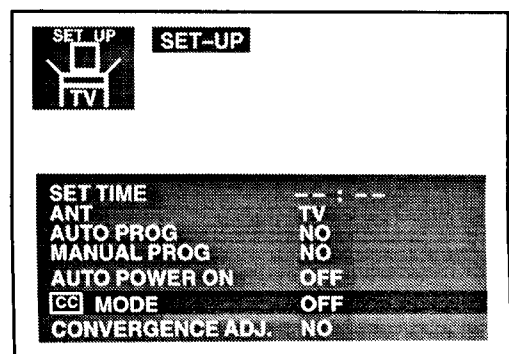
CC (Closed Caption) Mode




This Receiver has a built in decoder that provides a visual depiction of the audio portion of a television program, in the form of written words across the screen (White or Colored letters on a black background). It allows the viewer to read the dialogue of a television program or other information.

When the Closed Caption is in the OFF Mode:
The viewer may display closed caption by pressing

 on the remote control. Press again to delete.

1. Press .
2. Press  or  and  or  to highlight the Set-Up Icon.
3. Press  to display the Set-Up Menu.



4. Press  to highlight CC MODE.
5. Press  to select OFF, C1, or C2.
6. Press  twice to exit menus.

Set-Up Features (cont.)

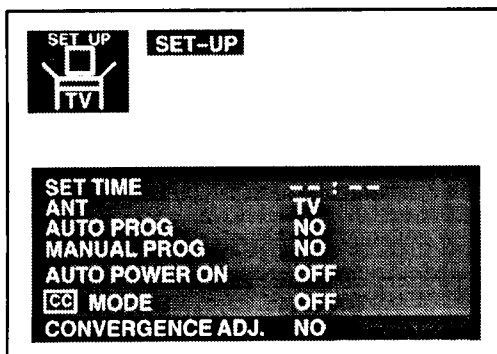
Convergence Adjustment

This TV incorporates a special **Digital Convergence Adjustment** feature. For the convenience of the customer, this adjustment is preset at the factory. However, adjustment may be required when the TV is moved (due to the influence of earth's magnetic field on the projection tubes.) Convergence may be adjusted as follows:

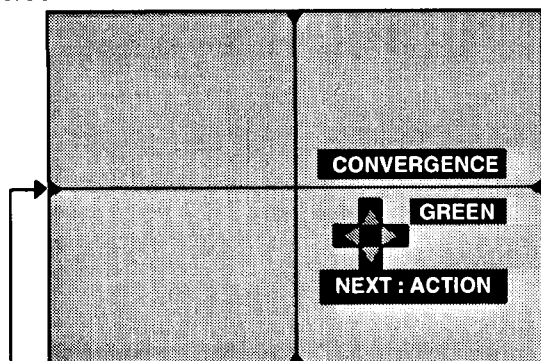
Green Adjustment

Turn the TV ON and tune in a channel that has a clear picture. The test pattern requires a received channel for stabilization. Green is the standard reference for the convergence adjustment procedure.

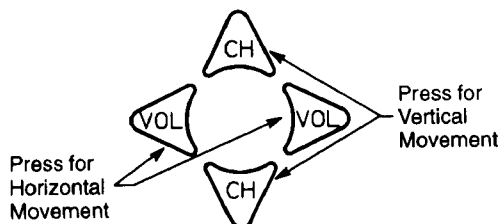
1. Press **ACTION**.
2. Press **CH** or **CH** and **VOL** or **VOL** to highlight the Set Up Icon.
3. Press **ACTION** to display the Set-Up Menu.
4. Press **CH** to highlight CONVERGENCE ADJ.



5. Press **VOL** or **VOL** to display the Convergence Adjustment screen.
6. Green horizontal and vertical lines appear on the screen.



mechanical reference marks on frame (screen center)



Press for Horizontal Movement

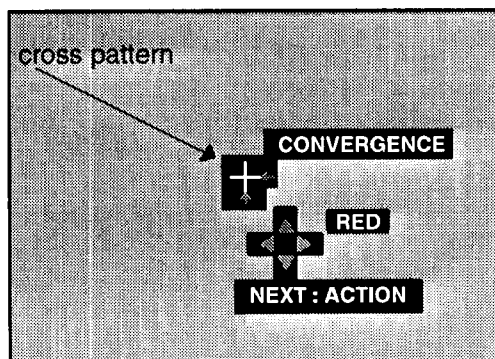
Press for Vertical Movement

7. Align the horizontal and vertical lines with the frame mechanical reference marks. Press **VOL** or **VOL** on Remote Control for moving the vertical line and **CH** or **CH** for moving the horizontal line.

Red Adjustment

8. Press **ACTION** on the Remote Control to display the red adjustment menu.

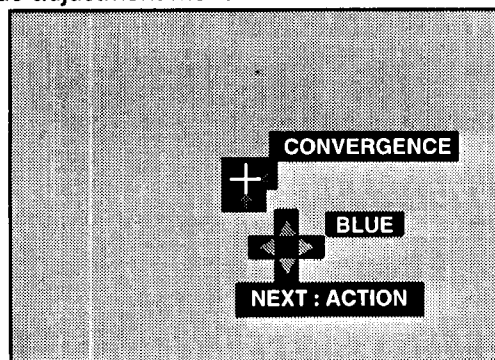
Note: A properly converged cross pattern will appear white with a minimum of red color fringing.



9. Align the Red Cross with the white cross pattern at the center of the screen. Press **VOL** or **VOL** on the Remote Control for horizontal movement and **CH** or **CH** for vertical movement.

Blue Adjustment

10. Press **ACTION** on the Remote Control to display the blue adjustment menu.



11. Align the Blue Cross with the white cross pattern at the center of the screen. Press **VOL** or **VOL** on Remote Control for horizontal movement and **CH** or **CH** for vertical movement.

12. Press **ACTION** three times to exit menus.

Note: TO PREVENT PICTURE TUBE DAMAGE, DO NOT LEAVE TEST PATTERN ON FOR A LONG PERIOD OF TIME.

Programming The Universal Remote Control





VCR

Preferred Procedure – Code Known

Programming Universal Remote Using Infra-Red Access Codes for VCRs

- Determine brand of VCR.
- Identify code(s) associated with the brand in the infra-red code index for VCRs (located in this manual).

Procedure




1. Place the Remote  into the VCR position.
2. Press and hold  down on Universal Remote.
3. Enter two digit code using keypad “0 through 9” buttons.  Release . The Universal Remote is now programmed.

NOTE: Some brands have multiple codes. Repeat procedure using each code listed until VCR responds correctly.



Alternate Procedure – Code Unknown Programming Universal Remote Using the “Sequence Method” for VCRs

- Confirm VCR is plugged in and operating properly, then turn OFF.

Procedure

1. Place the Remote  into the VCR position.
2. Press and hold the  down on Universal Remote.
3. Press  repeatedly. Check for the VCR to turn ON after each press. When the VCR turns ON, release VCR Power button. The proper infra-red code has now been accessed.

NOTE:

1. It may take several attempts before the correct code is found.
2. The  can be used to return to a code that was accidentally passed by.
3. Some Remote Controls may have unique operating functions for some buttons. For Example: The POWER button may only turn the VCR OFF as opposed to both ON and OFF. It will then be necessary to modify the procedure. Turn the VCR ON and repeatedly press the  until the VCR turns OFF.

NOTE: When operating equipment (VCR or Cable Converter box) with the Universal Remote Control, the TV/VCR/CABLE Switch should be set to the same position where the Access Code was first programmed for the equipment. Otherwise, leave the switch in the TV position.







Cable Converter Box

Preferred Procedure – Code Known

Programming Universal Remote Using Infrared Access Codes for Cable Television Converter Boxes

- Determine brand of Cable Television Converter box.
- Identify code(s) associated with the brand in the infra-red code index for Cable Television Converter boxes (located in this manual).

Procedure




1. Place the Remote  into the CABLE position.
2. Press and hold the  down on Universal Remote.
3. Enter two digit code using keypad “0 through 9” buttons.  Release . The Universal Remote is now programmed. Use the Remote  and  for selecting Cable Converter Box channels.

NOTE: Some brands have multiple codes. Repeat procedure using each code listed until Cable Television Converter box responds correctly.



Alternate Procedure – Code Unknown Programming Universal Remote Using the “Sequence Method” for Cable Television Converter Boxes

- Confirm Cable Television Converter box is plugged in and operating properly, then turn OFF.

Procedure

1. Place the Remote  into the CABLE position.
2. Press and hold  down on Universal Remote.
3. Press  repeatedly. Check for the Cable Television Converter box to turn ON after each press. When the Cable Television Converter box turns ON, release Cable Power button. The proper infrared code has now been accessed.

NOTE:

- It may take several attempts before the correct code is found.
- The  can be used to return to a code that was accidentally passed by.
- Some Remote Controls may have unique operating functions for some buttons. For Example: The POWER button may only turn the Cable Television Converter box OFF as opposed to both ON and OFF. It will then be necessary to modify the procedure. Turn the Cable Television Converter box ON and repeatedly press the  until the Cable Television Converter box turns OFF.

VCR and Cable Converter Box Infrared Codes Index

The Universal infrared Remote Control is capable of operating many brands of VCRs and Cable Television Converter Boxes after entering the proper infrared code.

NOTE: The Universal Remote Control memory is limited. Some models of VCRs or Cable Television Converter Boxes may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

Infrared Code Index For VCRs





















VCR Brand	Code(s)	VCR Brand	Code(s)
Audio Dynamics	14, 16	NEC	02, 14, 16, 30
Broksonic	10	Panasonic	00, 01
Canon	00, 01	Pentax	05
Capehart	01	Philco	00, 29
Citizen	09	Philips	00, 29
Craig	12	Pioneer	05
Curtis Mathes	00, 08, 15	Quasar	00, 01
DBX	14, 16	RCA	05, 07, 08, 28, 35
Emerson	10, 20, 34, 35, 36, 37	Realistic	00, 02, 06, 12, 15
Fisher	12, 18, 19	Samsung	07, 32
Funai	15	Sanyo	02, 12
GE	00, 07, 08, 32	Scott	04, 13, 33, 36
Goldstar	09	Sears	02, 05, 18, 19
Hitachi	05, 35, 36	Sharp	06, 24
Instant Replay	00	Sony	17, 26, 33, 34
JC Penney	00, 02, 05, 14, 16, 30	Sylvania	00, 29
JVC	02, 14, 16, 30	Symphonic	15
Kenwood	02, 14, 16, 30	Tashiko	09
Magnavox	00, 29	Tatung	30
Marantz	02, 14, 16, 29, 30	Teac	15, 30
Marta	09	Teknika	21
Memorex	00, 12	Toshiba	05, 13
MGA	04, 27	Vector Research	14, 16
Minolta	05	Video Concepts	14, 16
Mitsubishi	04, 27	Wards	06
Montgomery Ward	06	Yamaha	02, 14, 16, 30
Multitech	07, 15, 32	Zenith	11, 17

Infrared Code Index For Cable Television Converter Box

Brand of Cable-TV Box	Code(s)	Brand of Cable-TV Box	Code(s)
G.I.	04, 05, 15, 23, 24, 25, 30, 36	Pioneer	18, 20
Hamlin	12, 13, 34	RCA	27
Jerrold	04, 05, 15, 23, 24, 25, 30, 36	Regency	02
Macom	27	Scientific Atlantic	03, 22
Magnavox	19, 26, 28, 29, 32, 33, 40, 41	Sylvania	11
Oak	14, 16, 18	Texscan	10, 11
Oak Sigma	16	Tocom	17, 21
Panasonic	27, 39	Unika	31
Phillips	19, 26, 28, 29, 32, 33, 40, 41	Viewstar	19, 26, 28, 29, 32, 33, 40, 41
		Zenith	01, 42

Troubleshooting Chart

Before you call for service, determine the symptoms and make a few simple checks shown below.

Symptoms		Check
Picture	Sound	
 SNOWY PICTURE	 NOISY SOUND	- ANTENNA LOCATION AND/OR CONNECTION
 MULTIPLE IMAGE	 NORMAL SOUND	- ANTENNA DIRECTION AND/OR LOCATION - ANTENNA LEAD-IN WIRE
 INTERFERENCE	 NOISY SOUND	- ELECTRICAL APPLIANCES, LIGHTS, CARS AND TRUCKS - DIATHERMY AND OTHER MEDICAL EQUIPMENT
 NORMAL PICTURE	 NO SOUND	- VOLUME CONTROL SETTING - MUTE CONTROL (IF APPLICABLE) - TV SPEAKER SWITCH (IF APPLICABLE) IN OFF OR EXT POSITION - TRY ANOTHER CHANNEL
 NO VIDEO	 NOISY SOUND	- TV/ANT-CABLE TUNING SYSTEM SET TO PROPER SETTING - ANTENNA INPUT MODE INCORRECT
 NO PICTURE	 NO SOUND	- CHECK THAT AC POWER LINE IS PLUGGED INTO AC OUTLET AND POWER BUTTON IS ON - BRIGHTNESS AND AUDIO CONTROLS SET PROPERLY - TRY ANOTHER CHANNEL
 NO COLOR	 NORMAL SOUND	- COLOR CONTROL SETTINGS - TRY ANOTHER CHANNEL
 BLACK PICTURE	 NO SOUND	- RECEIVER IN VIDEO MODE WITH NO SIGNAL
 NO VIDEO	 NOISY SOUND	- CHANNEL LOCKOUT FEATURE ACTIVATED
 BLACK BOX IN PICTURE	 SOUND	- CC (CLOSED CAPTION) IN TEXT MODE (IF APPLICABLE) - PUT IN CAPTION OFF MODE TO ELIMINATE BLACK BOX

WARNING

To move set, push from left side of set. Casters on right side do not pivot in all directions. Set can tip over if moved from right side, with risk of personal injury.

ADVERTENCIA

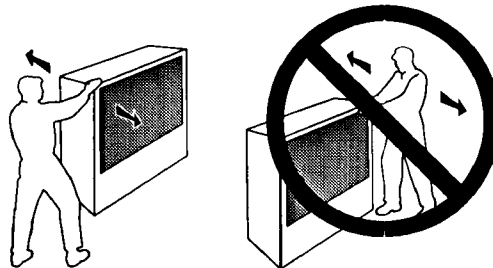
Para mover el conjunto, empuje desde el lado izquierdo del mismo. Las roldanas de la derecha no son pivotantes en todas las direcciones. El conjunto se puede tumbar si se lo mueve desde el lado derecho, corriendo así el riesgo de sufrir daños personales.

Mise en garde

Lors du placement du téléviseur, le pousser sur son côté gauche. Les roulettes du côté droit ne pouvant tourner dans toutes les directions, l'appareil pourrait tomber et s'il est poussé sur son côté droit et causer ainsi des risques de blessure.

警告

移動本機時，請從本機左側推動。推車右側不能旋轉。如從右側移動，則機體可能傾倒並造成傷害。



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