

Panasonic®

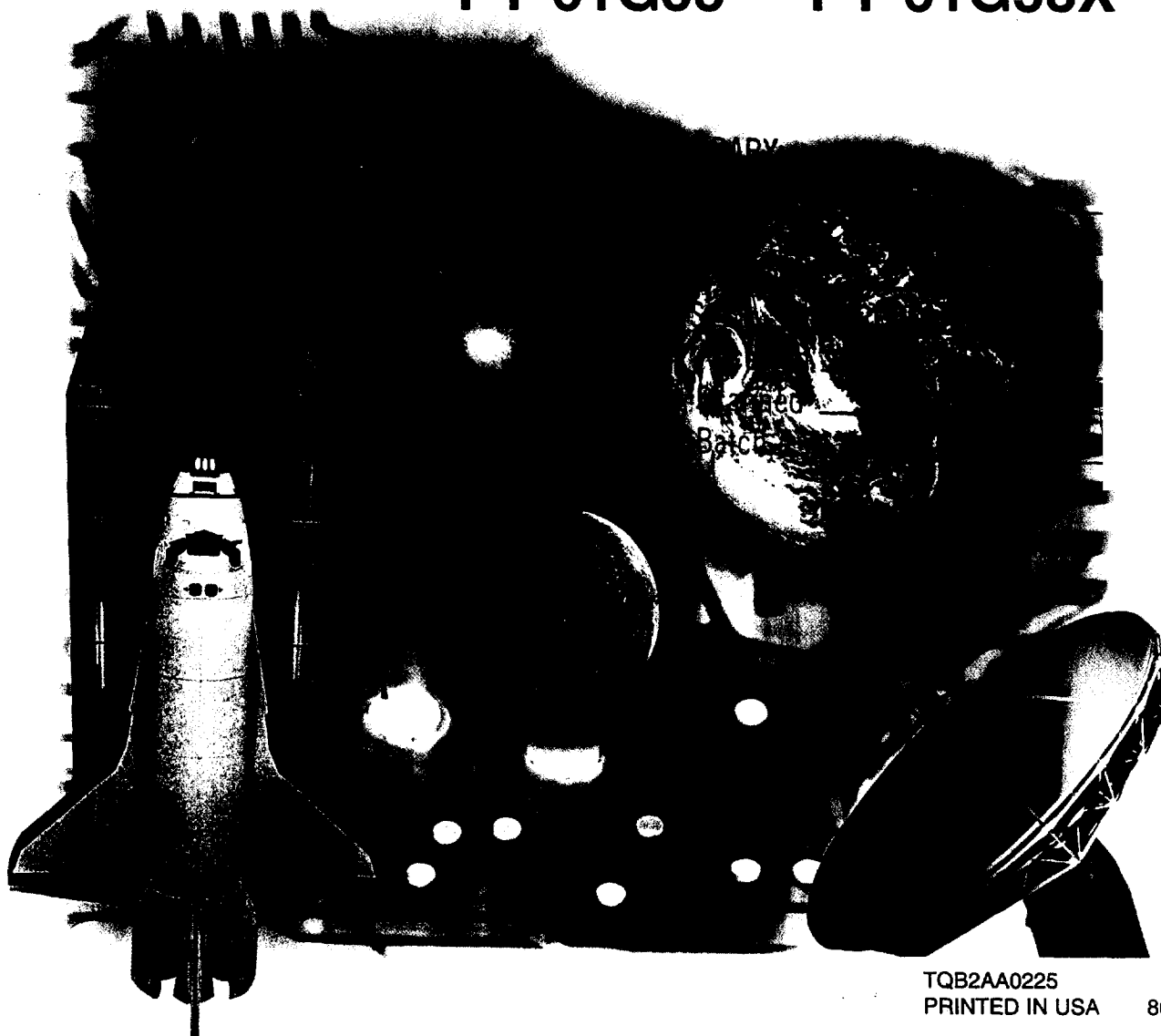
Color Video Projection System Operating Instructions

PT-51G53

PT-51G53X

PT-61G53

PT-61G53X



TQB2AA0225
PRINTED IN USA 80304

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

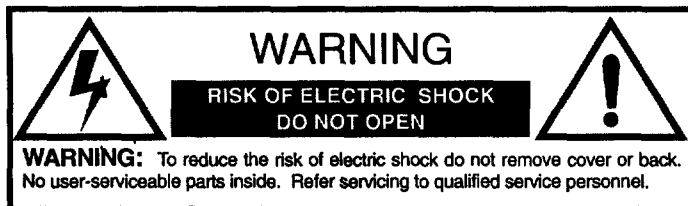
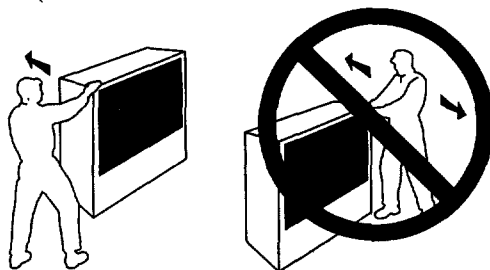
Para mover el conjunto, empuje desde el lado izquierdo del mismo. Los rolanas de la derecha no son pivotantes en todas las direcciones. El conjunto se puede tumbar si se lo mueve desde el lado derecho, corriendo así el riesgo de sufrir daños personales.

Mise en garde

Lors du déplacement du téléviseur, le pousser sur son côté gauche. Les roulettes du côté droit ne pouvant tourner dans toutes les directions, l'appareil pourrait tomber s'il est poussé de ce côté 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。



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.

WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

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CONGRATULATIONS

Congratulations

Your new Projection Television (PTV) system features a solid state chassis that is designed to give you many years of enjoyment. It was thoroughly tested and tuned at the factory for best performance.

Customer Record

The model and serial number of this product are located on the back of the PTV. You should note the model and serial number in the space provided and retain as a permanent record of your purchase. This will aid in identification in the event of theft or loss. Product registration is available at www.prodreg.com/panasonic.

Model
Number
Serial
Number

Care and Cleaning

Projection Screen (Turn PTV Off)

The projection screen is a high precision lens system which does not attract dust.

- Occasional dusting with a feather duster or very soft brush using only up and down motions.
 - Never rub across the screen in side to side motion.
- Infrequent washing with a very weak solution of dishwashing soap, using a soft, lint-free clean cloth.
 - DO NOT USE ABRASIVE CLEANERS.
 - Do not use window or glass cleaner, laundry detergent, automatic dishwasher soap, or abrasive cleaners.
 - Do not use alcohol, ammonia, or petroleum based products.
- Avoid excessive moisture and wipe dry.
 - Prevent solution from running into the receiver below.
- Avoid bumping or scraping the screen.
 - Protect the very fine grooves on the screen which transport the picture.

Cabinet and Remote Control

- For plastic cabinets and Remote Control, use a soft cloth dampened with water or a mild detergent solution. Avoid excessive moisture and wipe dry.
- For wooden cabinets, use a soft cloth and an occasional coat of furniture polish to preserve the finish.
- Do not use benzene, thinner or other petroleum based products.

Specifications

| Power Source | PT-51G53 PT-51G53X | PT-61G53 PT-61G53X | 120V AC, 60Hz |
|--------------------------|-----------------------|-----------------------|--------------------------------|
| Channel Capability - 181 | | | VHF-12; UHF-56; Cable-113 |
| 2 Video Input Jacks | | | 1Vp-p, 75 Ohm, Phono Jack Type |
| 2 Audio Input Jacks | | | 500mV RMS 47K Ohm |
| To Audio AMP Jack | | | 0-2.0V RMS 4.7K Ohm |
| S-VHS Input Jack | | | S-Video (Y-C) Connector |

Specifications are subject to change without notice or obligation.

Installation

Television Location

- This unit can be used as an entertainment center. Consult your dealer for available options.
- Avoid excessive sunlight or bright lights, including reflections.
 - Keep away from excessive heat or moisture. Inadequate ventilation may cause internal component failure.
 - Fluorescent lighting may reduce Remote Control transmitting range.
 - Avoid magnetic equipment, including motors, fans, or external speakers.

Optional Cable Connections

Shielded audio and video cables should be used between components. For best results:

- Use 75-ohm coaxial shielded cables.
- Check type of output and input connectors on your components.
- Determine required cable lengths.

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 A PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE. FOR SOME MODELS THAT ARE NON-POLARIZED, THE USE OF AN AC ADAPTOR CONNECTOR MAY BE NECESSARY.



Polarized plug

Cable / Antenna

For proper reception, either a cable or antenna connection is required.

Cable Connection

Connect the cable supplied by your local cable company.

Note: A cable converter box may be required for proper reception. Check with your local Cable company for compatibility requirements.

Incoming Cable from Cable Company

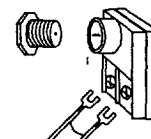



75 Ohm VHF/UHF on back of PTV

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 in the SET UP menu.

Incoming Cable from Home Antenna

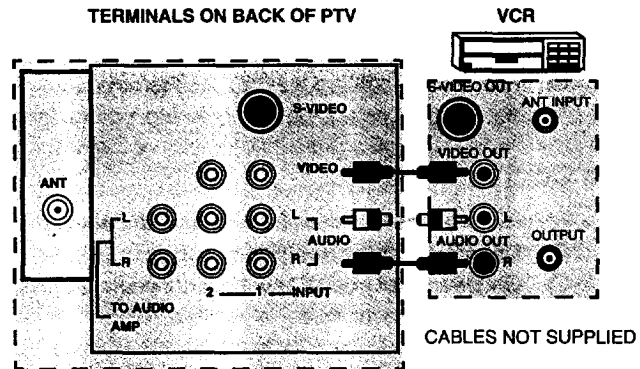


| |
|---|
|  Cable Preset |
| Cable Mode is preset at the factory. Antenna users must change to Antenna Mode in the Set Up Menu. |

INSTALLATION

Optional Equipment Connections

VCR's, video disc players, video game consoles, and DSS equipment can also be connected to the video inputs. See the optional equipment manual for details.



Procedure

1. Connect equipment as shown to rear Audio/Video input jacks.
2. Select the Video mode by pressing **TV/VIDEO** button.
3. Operate optional equipment as instructed in equipment manual.

Note: The S-VIDEO connection is optional and overrides other VIDEO connection. Use INPUT 1, AUDIO R and L with S-VIDEO connection.

TO AUDIO AMPLIFIER

Connect to an external audio amplifier input for listening to a stereo system.

Note: TO AUDIO AMP terminals cannot be connected directly to external speakers.

Audio Adjustments

1. Select TV SPEAKERS ON located in the AUDIO menu on screen.
2. Set amplifier volume to minimum.
3. Adjust PTV volume to desired level.
4. Adjust amplifier volume to match the PTV.
5. Select TV SPEAKERS OFF&VAO from AUDIO menu.
6. Volume, mute, bass, treble and balance are now controlled from the PTV.

Note: In OFF&FAO the volume is controlled by the external amplifier.

Picture In Picture (PIP) Operation

With / Without A VCR And Cable Box

This television includes a two tuner Picture In Picture (PIP) feature. This allows watching two (2) live broadcasts at the same time without or with an external video source (VCR).

Without A VCR (External Video Source)

Procedure

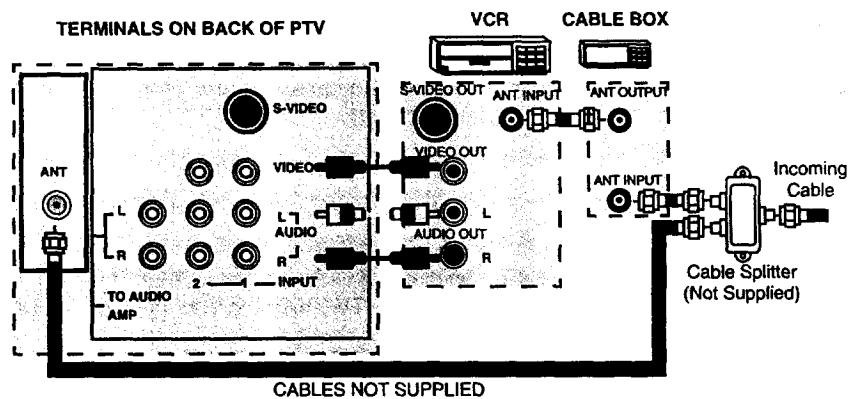
- Connect incoming cable to antenna (ANT) input on back of PTV.
- Press the **PIP** button on the Remote Control to display the PIP frame.

Note: The audio is for the Main Picture, only.

- Choose channels for the *PIP* frame by pressing the Remote Control **PIP CHANNEL** up/down buttons.
- Choose channels for the *Main Picture* by pressing the Remote Control **CH** up/down buttons or by using the numeric keypad.

With A VCR (External Video Source) And Cable Box

Connect your television to a VCR and Cable Box, as shown.



Note: The Remote Control must be programmed with supplied codes to operate the VCR and Cable Box. See Programming the Remote Control in the *Remote Control Quick Reference Guide*.

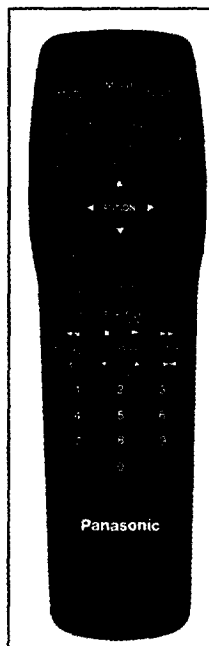
Procedure

Press the **PIP** button on the Remote Control to display the PIP frame.

Note: The audio is from the Main Picture only.

To view scrambled channels through your Cable Box in the PIP frame:

- Press the **TV/VIDEO** button on the Remote Control to select the same video input which your cable box is connected to.
- Verify the **CABLE BOX** and **VCR** are **ON** and the **VCR** tuned to channel 3.
- Choose channels for the *PIP* frame by pressing the **CBL** button on the Remote Control and using the numeric keypad or **CH** up/down buttons.
- Choose channels for the *Main Picture* by pressing the **TV** button on the Remote Control and using the numeric keypad or **CH** up/down buttons.



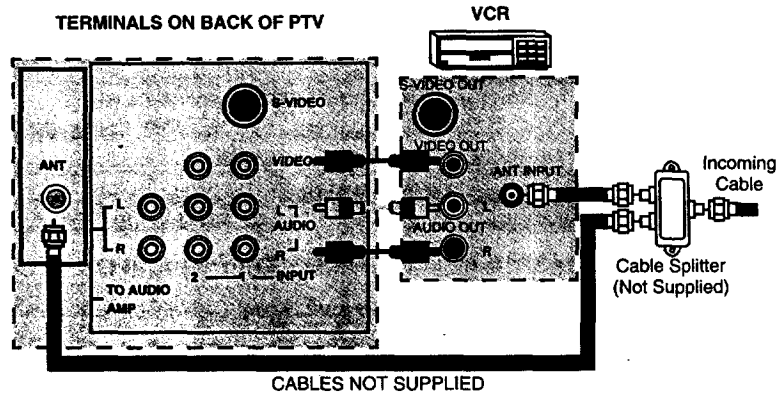
PICTURE IN PICTURE (PIP) OPERATION (CONT.)

Picture In Picture (PIP) Operation (Cont.)

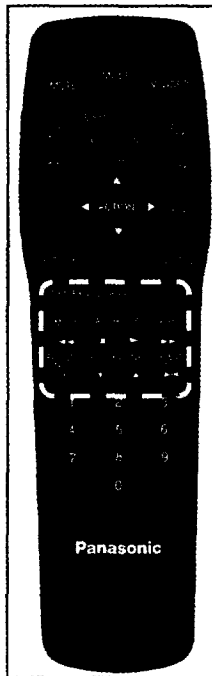
PIP Operation with a VCR - No Cable Box

This television includes a two tuner Picture In Picture (PIP) feature. This allows watching two (2) live broadcasts at the same time without or with an external video source (VCR).

Connect your television to a VCR, as shown.



Note: The Remote Control must be programmed with the supplied codes to operate the VCR. See Programming the Remote Control in the *Remote Control Quick Reference Guide*.




Procedure

Press the **PIP** button on the Remote Control to display the PIP frame on screen.

Note: The audio is from the Main Picture only.

To view an external video source in the PIP frame:

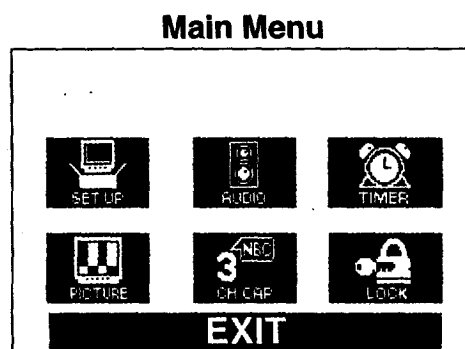
- Press the **TV/VIDEO** button on the Remote Control to select the same video input which your VCR is connected to.
- Verify the VCR is on.
- Choose channels for the *Main Picture* by pressing the **TV** button on the Remote Control and using the numeric keypad or **CH** up/down button.
- Choose channels for the PIP frame by pressing the **TV** button on the Remote Control and using the **PIP Channel** up/down buttons



SWAP and RECALL Buttons

The **SWAP** button switches the PIP and Main Picture source. Press the **RECALL** button for PIP and Main Picture source status, on screen.

Main Menu



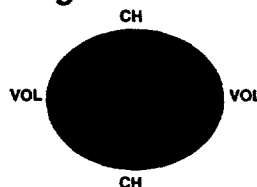
ACTION Button

Press the **ACTION** button to display the Main Menu and Sub Menus. Press the **ACTION** button repeatedly to exit.

CH / VOL Buttons

Press the **CH** (channel) or **VOL** (volume) buttons to select an icon. Use the **CH** buttons to highlight the desired features. Use **VOL** buttons to select and adjust features.



Remote Navigation / Action Buttons








Remote Control

The **Remote Control Quick Reference Guide** is located within the package provided with this PTV.

Main Menu Feature Chart

| MENU | DESCRIPTION |
|---|---|
|  | SET UP |
| SET TIME | When entered, TIME will display on screen after pressing POWER button, RECALL button, or changing channels. |
| ANT | Choose CABLE or TV to match the signal at your antenna input. |
| AUTO PROG | Automatically program channels with a signal into memory. |
| MANUAL PROG | Manually add or delete channels from memory. |
| AUTO POWER ON | Power up the PTV at the same time as the Cable Box or other components. |
| CC MODE | Select CC for Closed Captioning display. Select OFF to display closed captioning when MUTE button is pressed. |
| LANGUAGES | Select English, Spanish, or French menu. |
| CONVERGENCE ADJ | Adjustment may be required when the PTV is moved because of the effects of the Earth's magnetic field on the projection tubes. |
|  | AUDIO |
| AUDIO NORM | Reset BASS, TREBLE and BALANCE to factory default. |
| BASS | Increase or decrease the bass response. |
| TREBLE | Increase or decrease the treble response. |
| BALANCE | Emphasize the left/right speaker volume. |
| MODE | Select the audio mode: <input type="checkbox"/> STEREO - Two channel audio reception. <input type="checkbox"/> SAP - (Second Audio Program) Tune to the alternate audio channel if available in your area (bilingual or descriptive audio). <input type="checkbox"/> MONO - One channel audio. Use when stereo signal is weak. |
| AI SOUND | Automatically maintain constant volume between programs and commercials. |
| SURROUND | Enhances audio response when listening to stereo. |

Main Menu Feature Chart (Cont.)

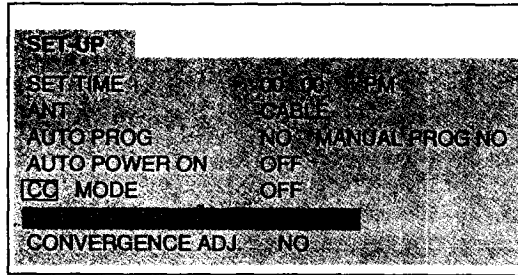
| MENU | DESCRIPTION |
|---|--|
|  | <p>AUDIO</p> |
| <p>TV SPEAKERS</p> | <p>Select TV SPEAKERS:</p> <ul style="list-style-type: none"> <input type="checkbox"/> ON - TV SPEAKERS operate normally. <input type="checkbox"/> OFF&VAO (Variable Audio Output) - TV Speakers off — audio adjustable by TV. <input type="checkbox"/> OFF&FAO (Fixed Audio Output) - TV SPEAKERS off — audio adjustable only by the external amplifier. |
|  | <p>TIMER</p> |
| <p>SLEEP TIMER</p> | <p>Program PTV to automatically turn off in 30, 60, or 90 minutes. Select NO to turn timer off.</p> |
| <p>PROGRAM TIMER</p> | <p>Program PTV to automatically turn on and off at selected time on a selected channel, daily or only one day.</p> |
|  | <p>PICTURE</p> |
| <p>PICTURE NORM</p> | <p>Reset all picture adjustments to factory default settings.</p> |
| <p>COLOR</p> | <p>Adjust desired color intensity.</p> |
| <p>TINT</p> | <p>Adjust natural flesh tones.</p> |
| <p>BRIGHTNESS</p> | <p>Adjust dark areas for crisp detail.</p> |
| <p>PICTURE</p> | <p>Adjust white areas of picture.</p> |
| <p>SHARPNESS</p> | <p>Adjust clarity of outline detail.</p> |
|  | <p>CH CAP</p> |
| <p>CHANNEL CAPTION</p> | <p>Provide labels for up to 30 stations using up to four characters for each station.</p> |
|  | <p>LOCK</p> |
| <p>GAME GUARD</p> | <p>Program to prevent video games, cable box, and VCR's from being viewed.</p> |

SPECIAL FEATURES
Special Features

Languages



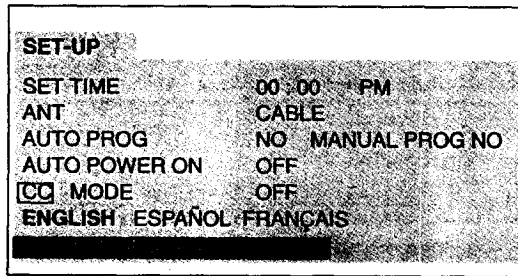
In SET UP menu, select ENGLISH, ESPAÑOL, or FRANÇAIS to change the menu language.



Convergence Adj. (Adjustment)

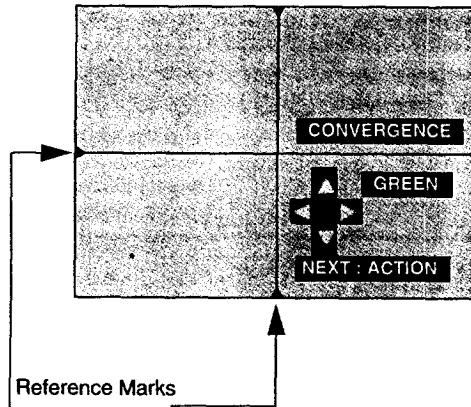


In SET UP menu, select CONVERGENCE ADJ only after moving the PTV to adjust for the effects of the earth's magnetic field on the projection tubes. Use the navigation buttons to select CONVERGENCE ADJ.



Note: Convergence adjustment seldom needs adjusting, except when moving the PTV.

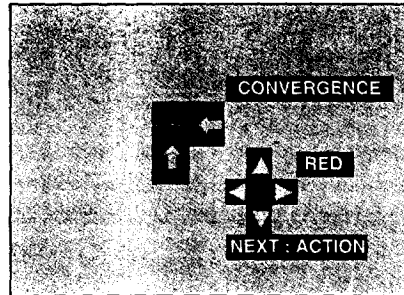
Use the navigation buttons to align the horizontal and vertical green lines on screen with the outside reference marks, as shown below. Press the ACTION button to move to the RED CONVERGENCE screen.



Convergence Adj. (Adjustment Cont.)



Use the navigation buttons to align the red cross with the white cross pattern at the center of the screen. Press **ACTION** to continue to the blue convergence adjustment screen and repeat.



Note: TO PREVENT PICTURE TUBE DAMAGE. DO NOT LEAVE TEST PATTERN ON FOR AN EXTENDED PERIOD OF TIME.

Convergence Adjustment

An adjusted cross pattern appears white with a minimum of color fringing.

Timer



Sleep Timer

In **TIMER** menu, program to turn PTV OFF in 30, 60, or 90 minutes. Select **NO** to turn off timer.

TIMER CONTROL

PROGRAM TIMER

| | |
|---------|------------|
| ON | 12 : 00 PM |
| OFF | 12 : 00 AM |
| CHANNEL | 3 |
| SET | TIME FIRST |

Note: Timer features are unavailable when **AUTO POWER** is on.


Program Timer




In Timer menu, program PTV to automatically turn on and off at selected time on a selected channel, daily or one day.

| TIMER CONTROL | |
|----------------------|------------|
| SLEEP TIMER | NO |
| ON | 12:00 PM |
| OFF | 12:00 AM |
| CHANNEL | 3 |
| SET | TIME FIRST |

Note: TIME must be entered in the SET UP menu to operate PROGRAM TIMER.

 **Turn Off After 90 Minutes**

The PTV automatically turns OFF after 90 minutes when turned on by the PROGRAM TIMER. If the OFF time is programmed or if a key is pressed, the automatic OFF after 90 minutes will be cancelled.

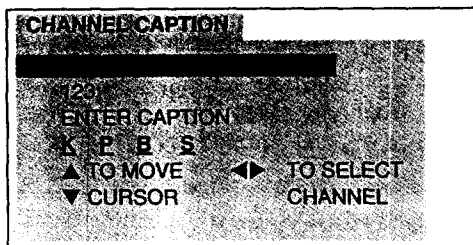
 **PROGRAM TIMER Activation**

The PROGRAM TIMER is active when the PTV is OFF or ON. The PTV will switch to the selected channel at the selected time set by the PROGRAM TIMER.

CH CAP (Channel Caption)



Program channel captions (station labels) for 30 stations using up to four characters.



Note: Delete channel captions by entering dashes (-) in all four character slots.

LOCK

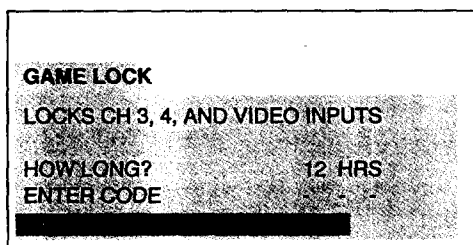


Game Guard Lock

In LOCK menu, use to prevent video games and VCR tapes from being viewed for 12, 24, or 48 hours using a secret code.

Lock Channel 3, Channel 4, and video inputs for 12, 24, or 48 hours by entering a three-digit secret code.

Unlock GAME GUARD by re-entering the same three-digit secret code.

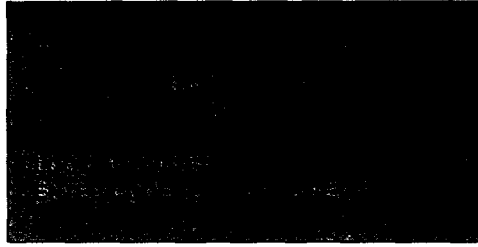


Note: Understand how to unlock GAME GUARD before using it. Use a code that is easy to remember or record it in a safe place.

GAME GUARD Unlock

If you do not remember your code, Game Guard will unlock in 12, 24, or 48 hours depending on last setup.

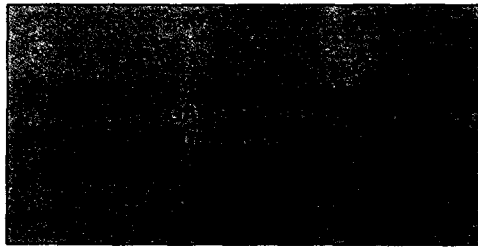
Unlocking Game Guard



Enter the same three-digit code.





















If the three-digit code is not the same as entered previously.



If the same three-digit code is used.

Troubleshooting Chart

Before calling for service, determine the symptoms and follow suggested solutions.

| AUDIO | VIDEO | Solutions |
|---|---|--|
|  Noisy Audio |  Snowy Video | Adjust Antenna Location and Connection |
|  Noisy Audio |  Multiple Image | Adjust Antenna Location and Connection Check Antenna Lead-in Wire |
|  Noisy Audio |  Interference | Move PTV from Electrical Appliances, Lights, Vehicles, and Medical Equipment |
|  No Audio |  Normal Video | Increase Volume Check Mute Check TV SPEAKERS on/off Change Channel |
|  Noisy Audio |  No Video | Set TV or Cable Mode Properly Check Antenna Cables |
|  No Audio |  No Video No PIP | Check Power Cord is Plugged into Active Outlet Adjust Brightness and Audio Controls Change Channel Check Cable Connections Program the Remote Control Again Check Second Video Source Operation |
|  Normal Audio |  No Color | Adjust Color Settings Change Channel |
|  Wrong Audio |  Normal Video | Check Audio Is Set To Stereo Or Mono, Not SAP |
|  Normal Audio |  Normal Video | Replace Remote Control Batteries |
| Intermittent Remote Control Operation | | |

**Read these instructions completely before operating PTV.
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