

Panasonic®

SuperFlat™ System Monitor-Receiver Operating Instructions

CT-27SF36

CT-F2994

CT-F3394

CT-32SF36

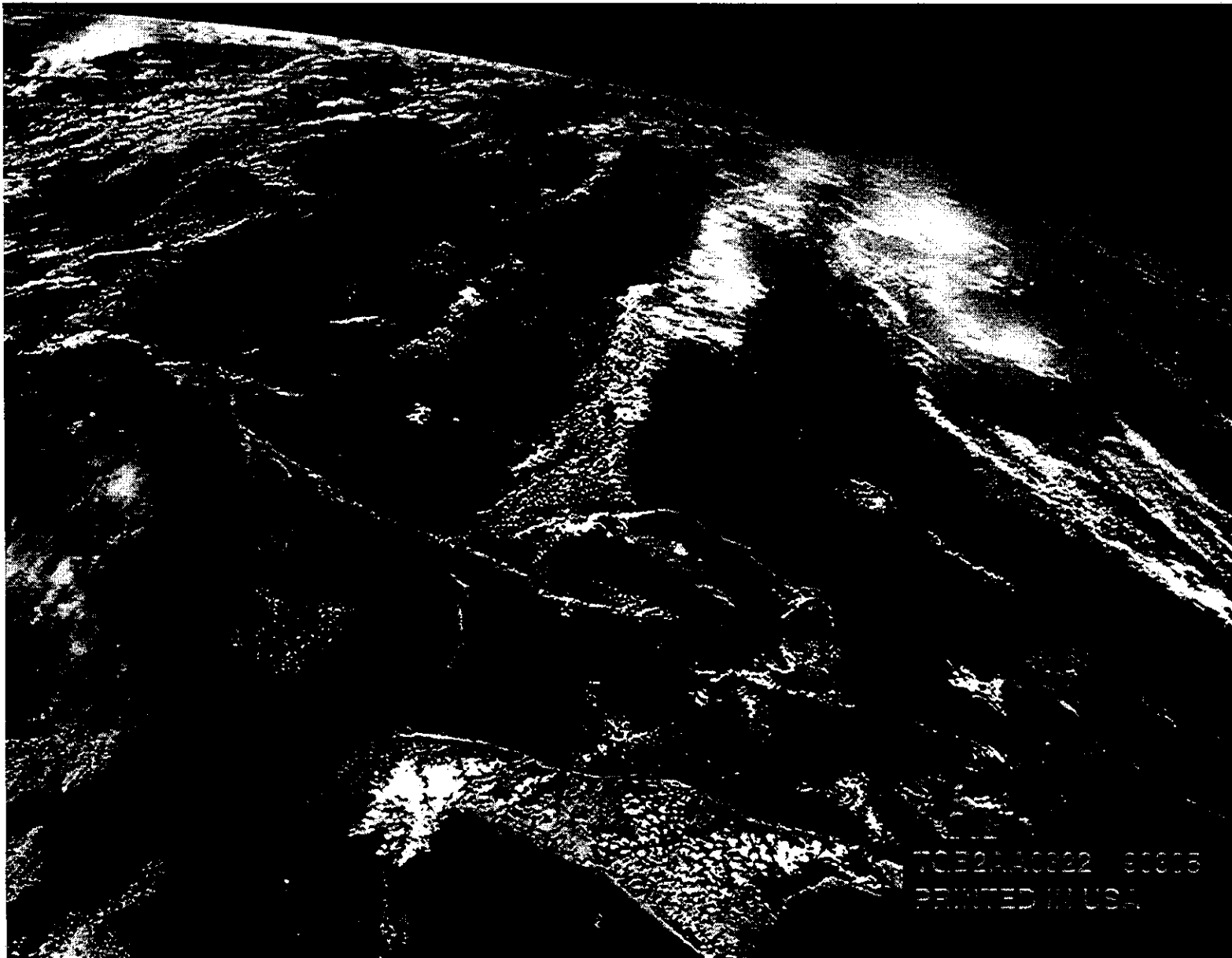
CT-F2994V

CT-F3394V

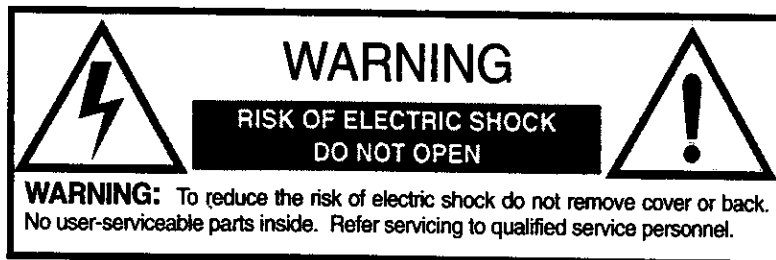
CT-36SF36

CT-F2994X

CT-F3394X



TCE2M40822 93335
PRINTED IN USA



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.

Certain audio features of this product manufacture under a license from Desper Products, Inc. Spatializer® and the circle-in-square device and trademarks owned by Desper Products, Inc. Spatializer U.S. Patents are: 4,308,423; 4,355,203 and 5,412,731.

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Read these instructions completely before operating television.

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CONGRATULATIONS

Congratulations

Your new SUPERFLAT™ system television has state-of-the-art picture quality and an innovative Dome sound system. It has a compact elegant styling 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 television. 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 for U.S. customers is available at www.prodreg.com/panasonic.

Model
Number

Serial
Number

Care and Cleaning

Screen (Turn TV Off)

- Use a mild soap solution or window cleaner with a soft clean cloth. DO NOT USE ABRASIVE CLEANERS.
- Avoid excessive moisture and wipe dry.

Cabinet and Remote Control

- For cabinets and remote control, use a soft cloth dampened with water or a mild detergent solution. Avoid excessive moisture and wipe dry.
- Do not use benzene, thinner or other petroleum based products.

Specifications

Power Source CT-27SF36 CT-36SF36 CT-F3394 CT-F3394V CT-F3394X CT-32SF36 CT-F2994 CT-F2994V CT-F2994X	120V AC, 60Hz
Channel Capability - 181	VHF-12; UHF-56; Cable-125
4 Video Input Jacks	1Vp-p, 75 Ohm, Phono Jack Type
8 Audio Input Jacks	500mV RMS 47K Ohm
Video Output Jack	1Vp-p, 75 Ohm, Phono Jack Type
2 Audio Output Jacks	0-2.0V RMS 4.7K Ohm
2 S-Video Input Jacks	S-Video (Y-C) Connector

Specifications are subject to change without notice or obligation.

Installation

Television Location

This unit is intended to be used as part of 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.
- Keep away from magnetic equipment, including motors, fans and external speakers.

Optional Cable Connections

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

- Use 75-ohm coaxial shielded cables.
- Use appropriate input and output connectors that match your component connectors.
- Avoid long cables to minimize interference.

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 Connection

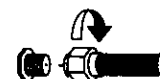
For proper reception, either a cable or antenna connection is required.

Cable Connection

Connect the cable supplied by your local cable company to ANT1 connection on back of television. Select cable mode and ANT1 in SET UP menu under Prog Chan (Program Channels).

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

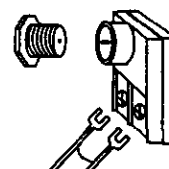


75 Ohm VHF/UHF on back of TV

Antenna Connection

- For proper reception of VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended.
- Connect home antenna to ANT1 connection on back of television. Select TV mode and ANT1 in the SET UP menu under Prog Chan .

Incoming Cable from Home Antenna



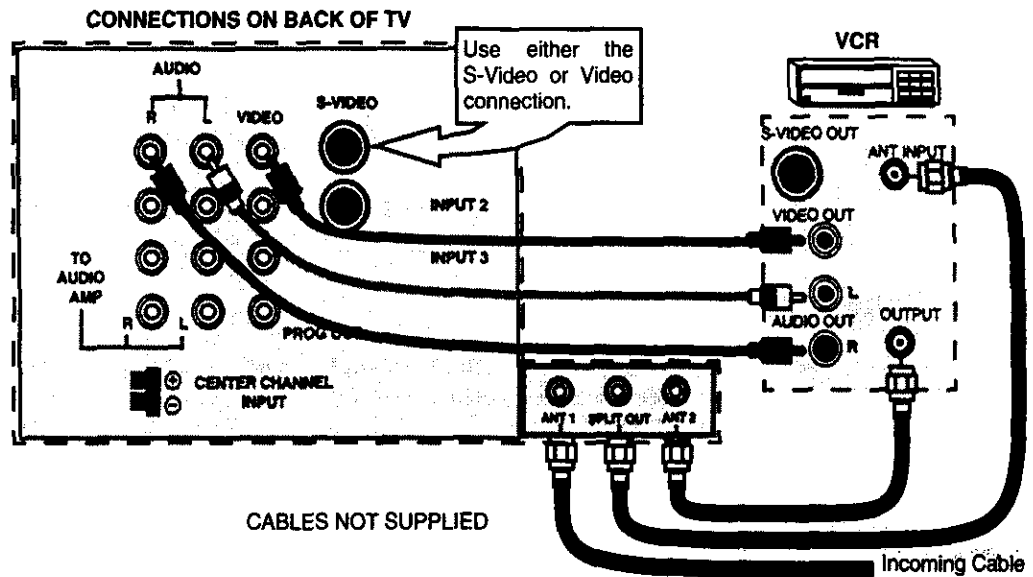
Cable Preset

Cable Mode is preset at the factory. Antenna users must change to TV mode and select ANT1 in the Set Up Menu under Prog Chan.

Optional Equipment Connections

VCR Connection

Follow this diagram when connecting your television to a VCR only.



CABLES NOT SUPPLIED

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

Viewing a television program

Procedure

1. Select ANT1 in the SET UP menu under Prog Chan (Program Channels).
2. Tune the television to the television program you want to view.

Viewing a video

Procedure

Option A

1. Select ANT1 in the SET UP menu under Prog Chan.
2. Press the **TV/VIDEO** button on the remote control to select the video input (VIDEO 1, VIDEO 2, etc.) connected to your VCR.
3. Begin the video.

Option B

1. Select ANT2 in the SET UP menu under Prog Chan.
2. Tune the television to Channel 3 or 4, depending on your VCR.
3. Begin the video.

Recording a television program

Procedure

Option A (Recording and viewing the same program)

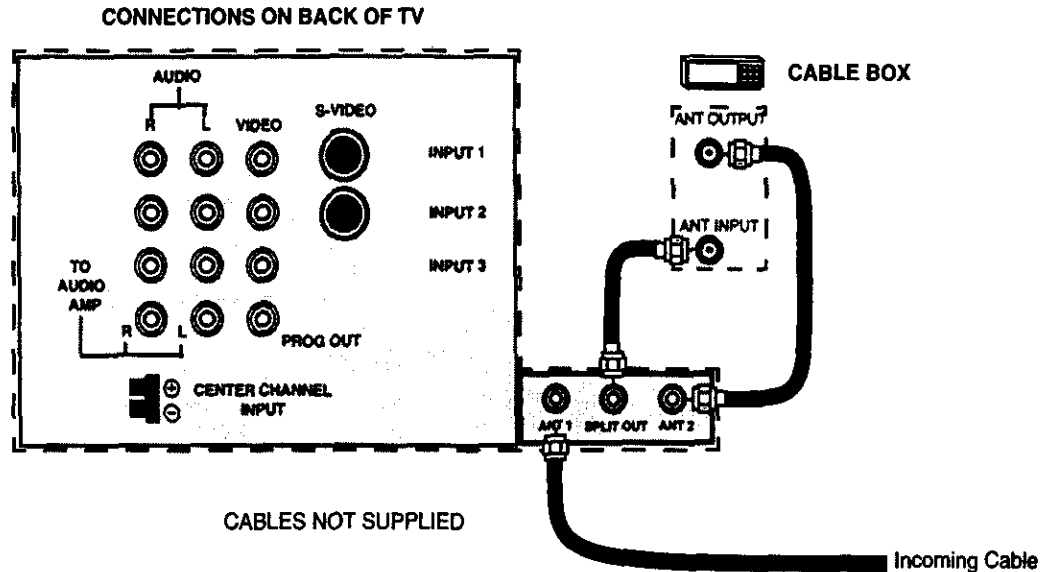
1. Select ANT2 in the SET UP menu under Prog Chan.
2. Tune the television to Channel 3 or 4, depending on your VCR.
3. Using the VCR, tune to the television program you want to record.
4. Begin recording.

Option B (Recording one program while viewing another program)

1. Select ANT1 in the SET UP menu under Prog Chan.
2. Press the **TV/VIDEO** button on the remote control to select the video input (VIDEO 1, VIDEO 2, etc.) connected to your VCR.
3. Using the VCR, tune to the television program you want to record.
4. Begin recording.
5. Press the **TV/VIDEO** button on the remote control to switch back to TV mode.
6. Tune the television to the television program you want to view.

Cable Box Connection

Follow this diagram when connecting your television to a cable box only.



Note: The remote control must be programmed with supplied codes to operate the cable box. See Programming the Remote Control in the Remote Control Quick Reference Guide.

Viewing a premium (scrambled) cable channel

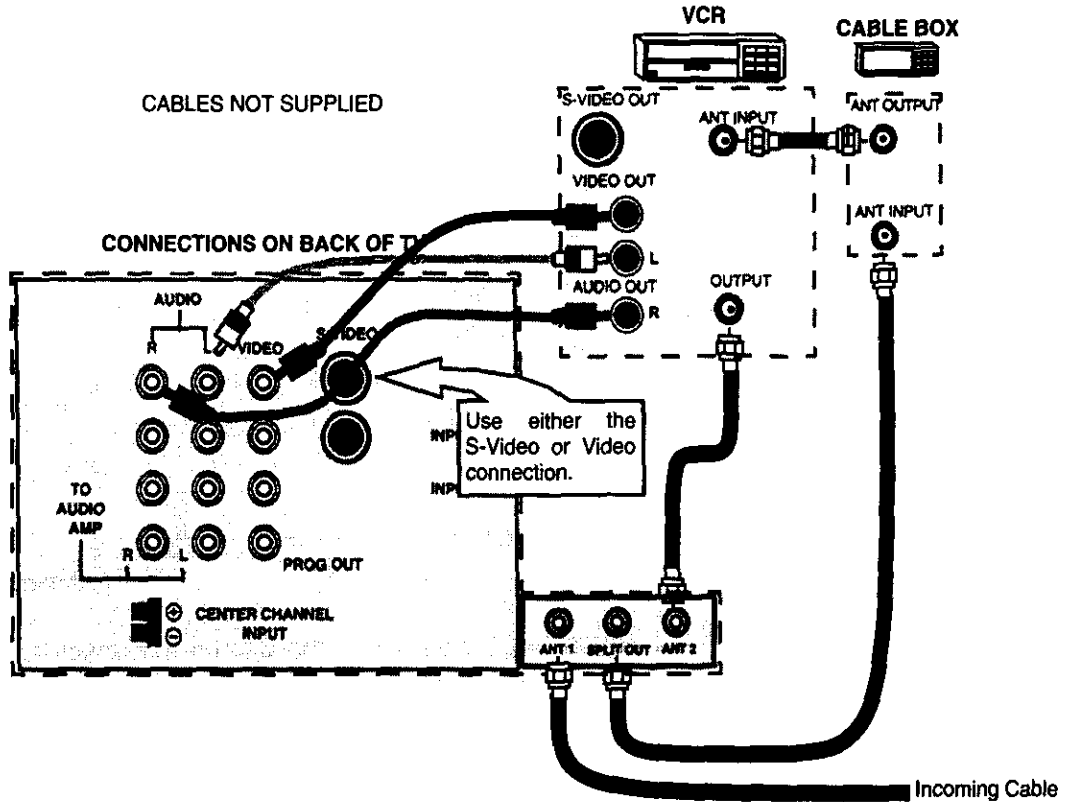
Procedure

1. Select ANT2 in the SET UP menu under Prog Chan (Program Channels).
2. Tune the television to Channel 3.
3. Using the cable box, tune to the premium cable channel you want to view.

Note: To use special features such as Favorite Channels and Channel Captions (see Special Features section for more information), ANT1 must be selected in the SET UP menu under Prog Chan.

VCR and Cable Box Connection

Follow this diagram when connecting your television to both a VCR and a cable box.



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*.

Viewing a premium (scrambled) cable channel

Procedure

1. Select ANT2 in the SET UP menu under Prog Chan (Program Channels).
2. Tune the television to Channel 3.
3. Using the cable box, tune to the premium cable channel you want to view.

Note: To use special features such as *Favorite Channels* and *Channel Captions* (see *Special Features* section for more information), ANT1 must be selected in the SET UP menu under Prog Chan.

Recording a premium (scrambled) cable channel

Procedure

1. Select ANT2 in the SET UP menu under Prog Chan.
2. Press the **TV/VIDEO** button on the remote control to select the video input (VIDEO 1, VIDEO 2, etc.) connected to your VCR.
3. Turn the VCR ON.
4. Tune the VCR to Channel 3 or 4, depending on the switch setting on the back of VCR.
5. Using your cable box, tune to the premium cable channel you want to record.
6. Begin recording.

Note: To view a different channel while recording:

- Select ANT1 in the SET UP menu under Prog Chan.
- Press the **TV/VIDEO** button on the remote control to TV mode.
- Tune the television to a television program (except another premium cable channel).

Additional Equipment Connections

Push to open the front panel of the television to use the Audio/Video input jacks for optional equipment. Press the **TV/VIDEO** button to select VIDEO 4 input mode.



A second VCR, a video disc player, video game equipment and DSS equipment can also be connected to the video inputs. See the optional equipment manual for details.

Procedure

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

Note: *The S-VIDEO connection provides higher quality picture. It overrides other VIDEO connections. Use INPUT 1, AUDIO R and L with S-VIDEO connection.*

Amplifier Connection (TO AUDIO AMP)

To listen through a separate stereo system, connect an external audio amplifier TO AUDIO AMP inputs on back of television.

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

Audio Adjustments

1. Select **SPEAKERS ON** located in the onscreen **AUDIO** menu.
2. Set amplifier volume to minimum.
3. Adjust television volume to desired level.
4. Adjust amplifier volume to match the television.
5. Select **SPEAKERS OFF & VARIABLE AUDIO OUT** from **AUDIO** menu.
6. Volume, mute, bass, treble and balance are now controlled through the television.

Note: *Select **SPEAKERS OFF & FIXED AUDIO OUT** to control audio functions through the external amplifier.*

Program Out Connection (PROG OUT)

To use the television audio and video with optional equipment, connect the **PROG OUT** and **TO AUDIO AMP** connections on the back of the television.

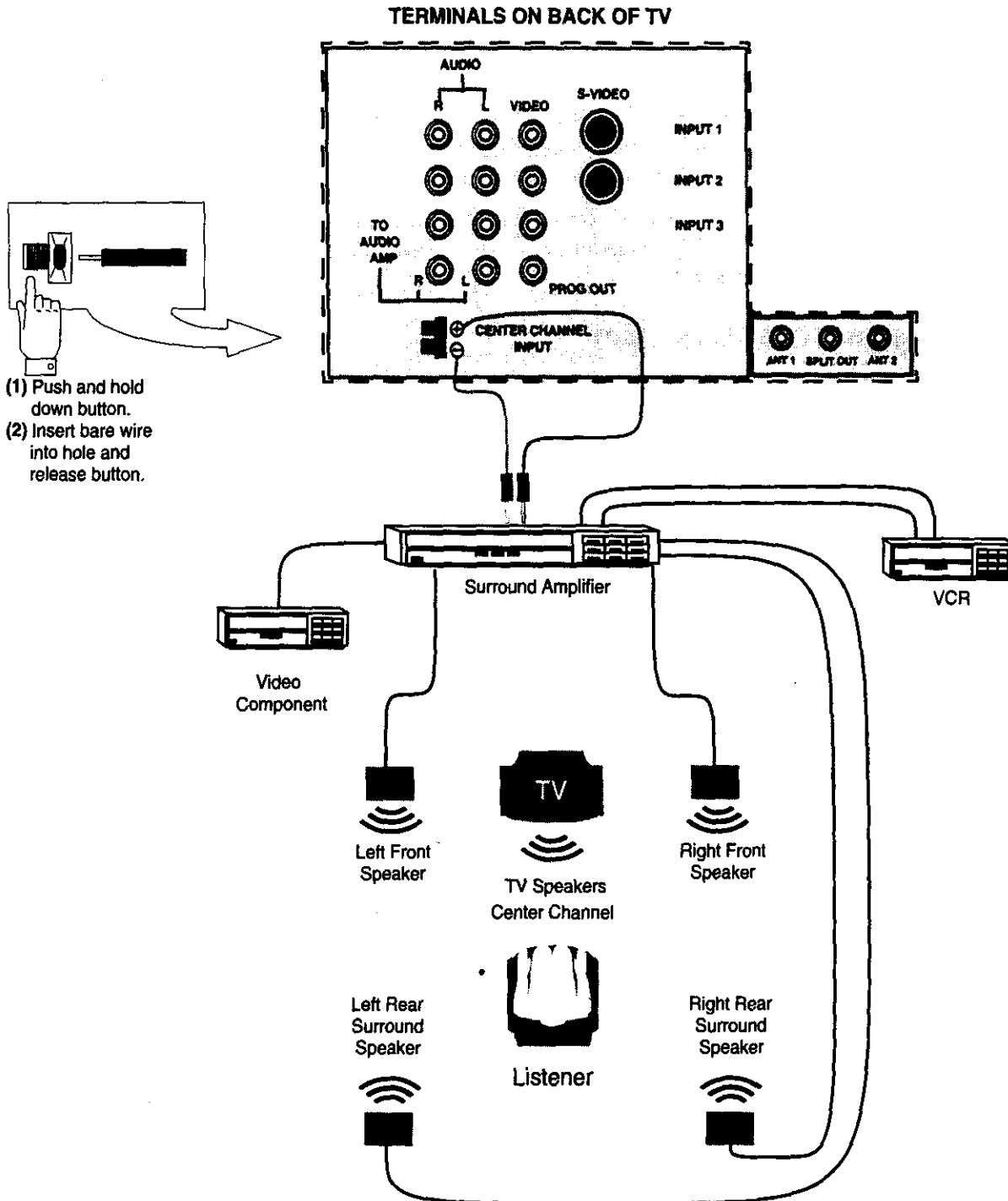
Procedure

1. Connect optional equipment to **PROG OUT** and **TO AUDIO AMP** terminals.
2. **PROG OUT** terminal display is the same as on screen display.
3. See optional equipment manual for further instructions for recording and monitoring.

INSTALLATION

Home Theater Connection

Your television's internal speakers can be connected as the center channel for a surround sound home theater system. Connect a surround sound amplifier (center channel speaker output) to CENTER CHANNEL INPUT on the back of the television, as shown. DOLBY* CENTER MODE & FIXED AUDIO OUT must be selected in the AUDIO Roller Guide Menu™** under SPEAKERS.



*Manufactured under license from Dolby Laboratories. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

**US Patent Pending

Picture in Picture (PIP) Operation

This television includes a two-tuner Picture In Picture (PIP) feature. This allows you to watch two (2) live broadcasts at the same time with or without an external video source such as a VCR, cable box, etc.

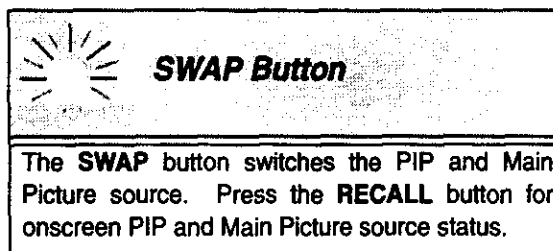
Basic PIP Operation

Procedure

Press the **PIP** button on the remote control to display the *PIP* frame onscreen.

Note: *The audio is from the Main Picture only.*

1. Choose channels for the *PIP* frame by pressing the remote control **PIP CHANNEL** up/down buttons.
2. Choose channels for the *Main Picture* by pressing the remote control **CH** up/down buttons or by using the numeric keypad.



PIP Operation with a Cable Box

Procedure

- To view premium (scrambled) cable channels through your cable box in the *Main Picture*:

Note: *Use this procedure if you want to watch premium cable channels in the Main Picture while viewing a television program or video in the PIP frame.*

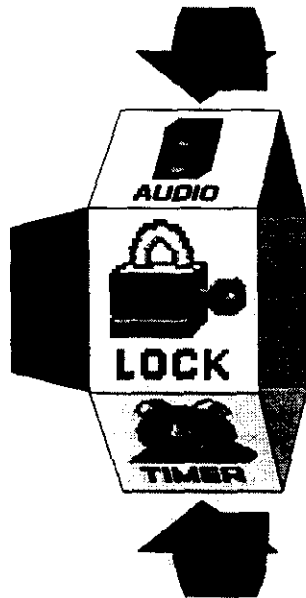
1. Select ANT2 in the SET UP menu under Prog Chan (Program Channels).
2. Tune television to Channel 3.
3. Press the **PIP** button on the remote control to display the *PIP* frame onscreen.

Note: *The audio is from the Main Picture only.*

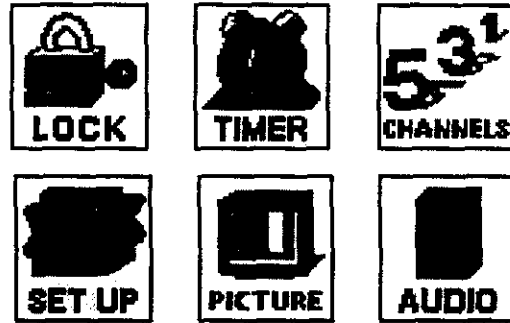
4. Verify the cable box is ON.
5. Choose channels for the *Main Picture* by tuning the cable box.
6. Choose channels for the *PIP* frame by pressing the **TV** button on the remote control and using the **PIP CHANNEL** up/down buttons.

Note: *Swap is not available when using the cable box to tune channels. If your cable box has a video output, it can be connected to the television to allow you to use all PIP functions. See the equipment manual for more information. (Tune the PIP to the video input connected to the cable box).*

Panasonic



ROLLER GUIDE MENU SELECTIONS



▲▼ FOR MORE FEATURES
PRESS ACTION TO SELECT

Basic Navigation

Procedure

- ❑ Press the **ACTION** button in the middle of the large blue button on the remote control to display the Roller Guide Menu.

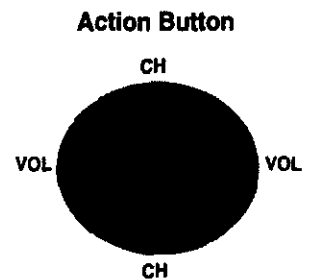
*Note: Be careful to press the **ACTION** button in the middle of the button. If you do not press in the middle of the button, the channel or volume keys may be activated.*

- ❑ Press the **CH** up/down buttons to rotate the Roller Guide.
- ❑ Press the left **VOL** button to exit the Roller Guide Menu.

Navigation in the Roller Guide

Procedure




- ❑ Press the **ACTION** button to select main menu items.
- ❑ Press the **CH** up/down buttons to highlight submenus
- ❑ Press the **VOL** buttons to select and adjust features.
- ❑ Press the **ACTION** button to return to submenus.





Remote Control Guide

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



Roller Guide Menu Chart

MENU	DESCRIPTION
	<p align="center">SET UP</p>
<p align="center">LANGUAGES</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Select English, Spanish or French menu.
<p align="center">PROG CHAN (Program Channels)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> MODE - Select TV or Cable mode. See Installation section in Manual. <input type="checkbox"/> ANTENNA - Select ANT1 or ANT2. See Installation section in manual. <input type="checkbox"/> AUTO PROGRAM - Automatically program channels having a signal into memory. <input type="checkbox"/> MANUAL PROGRAM - Manually add or delete channels from memory.
<p align="center"> (Closed Captioning)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> CC ON MUTE - Activate C1-C4 for Closed Captioning display when the remote MUTE button is pressed. <input type="checkbox"/> CC MODE - Select T1-T4 or C1-C4 for Closed Captioning, program guides and other information.
<p align="center"></p>	<p align="center">AUDIO</p>
<p align="center">AUDIO ADJ. (Adjustments)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> MODE - Select STEREO, SAP (Second Audio Program) or MONO. (Use MONO when stereo signal is weak). <input type="checkbox"/> BASS - Increase or decrease the bass response. <input type="checkbox"/> TREBLE - Increase or decrease the treble response. <input type="checkbox"/> BALANCE - Emphasize the left / right speaker volume. <input type="checkbox"/> NORMAL - Reset BASS, TREBLE and BALANCE to factory default.
<p align="center">OTHER ADJ. (Adjustments)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> AI SOUND - Equalize overall volume levels across all channels. (AI sound is not available in VIDEO mode).
<p align="center">SURROUND</p>	<ul style="list-style-type: none"> <input type="checkbox"/> SPATIALIZER® - Three dimensional surround sound with two speakers.

Roller Guide Menu Chart (Cont.)

MENU	DESCRIPTION
<p>SPEAKERS</p>	<ul style="list-style-type: none"> <input type="checkbox"/> ON - TV speakers operate normally. <input type="checkbox"/> OFF & Variable Audio Out - TV speakers off - audio adjustable by television. <input type="checkbox"/> OFF & Fixed Audio Out - TV speakers off - audio adjustable by the external amplifier only. <input type="checkbox"/> Dolby Center Mode & Fixed Audio Out - Makes television the surround sound center channel and the audio adjustable by the external amplifier only.
<p style="text-align: center;"></p>	<p style="text-align: center;">TIMER</p>
<p>CLOCK SET</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Set the time and the day of the week. (Time will display onscreen after turning on the television, pressing the RECALL button or changing channels).
<p>SLEEP</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Set timer to turn off television in 30, 60 or 90 minutes. Select NO to turn timer off.
<p>TIMER 1 TIMER 2</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Set one or both timers to automatically turn television on and off at selected times, on selected channels, and on selected days. (Clock must be set to use Timer features).
<p style="text-align: center;"></p>	<p style="text-align: center;">PICTURE</p>
<p>VIDEO ADJ. (Adjustments)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> COLOR - Adjust desired color intensity. <input type="checkbox"/> TINT - Adjust natural flesh tones. <input type="checkbox"/> BRIGHTNESS - Adjust dark areas for crisp detail. <input type="checkbox"/> PICTURE - Adjust white areas of picture. <input type="checkbox"/> SHARPNESS - Adjust clarity of outline detail. <input type="checkbox"/> NORMAL - Reset all picture adjustments to factory default settings.
<p>OTHER ADJ. (Adjustments)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> COLOR TEMP - Adjust white balance to COOL (blue), WARM (red) or NORMAL. <input type="checkbox"/> AUTO COLOR - Equalize color to compensate for signal variations. <input type="checkbox"/> AI PICTURE - Correct contrast of the picture from scene to scene. <input type="checkbox"/> 3D Y/C FILTER - Minimize noise and cross color in the picture.

Roller Guide Menu Chart (Cont.)

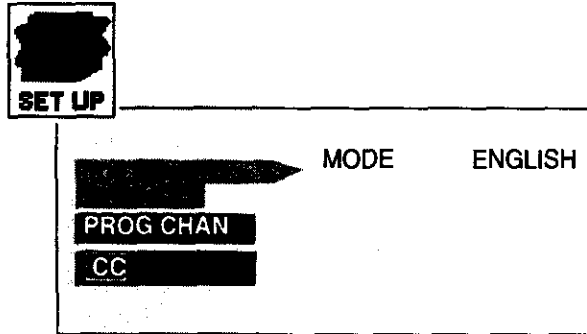
MENU	DESCRIPTION
	<p style="text-align: center;">CHANNELS</p>
<p style="text-align: center;">FAVORITES</p>	<p><input type="checkbox"/> CHANNEL SCAN - Select FAV (15 favorites) or ALL channels to scan channels using the CH up/down buttons.</p>
<p style="text-align: center;">CAPTION</p>	<p><input type="checkbox"/> PRESET CAPTION - Assign channel numbers to preset popular television stations.</p> <p><input type="checkbox"/> MANUAL CAPTION - Enter channel numbers and captions manually.</p> <p><input type="checkbox"/> INPUT LABEL - Label video connections to display optional equipment.</p>
	<p style="text-align: center;">LOCK</p>
<p style="text-align: center;">MODE</p>	<p><input type="checkbox"/> Lock All, Channels or Game with a secret code.</p>
<p style="text-align: center;">HOW LONG?</p>	<p><input type="checkbox"/> Select the period of time (12, 24, 48 hours or ALWAYS) for your option to be locked.</p>

Special Features

SET UP

Menu Languages

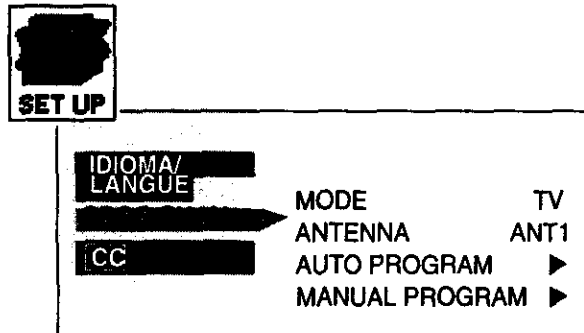
In SET UP Menu, select IDIOMA/LANGUE to change menu language to ENGLISH, ESPAÑOL (Spanish) or FRANÇAIS (French).



Prog Chan (Program Channels)

In SET UP menu under PROG CHAN select:

- MODE to select TV (antenna) or CABLE mode depending on the signal source.
- ANTENNA to select either ANT1 or ANT2.
- AUTO PROGRAM to automatically program all channels with a signal.
- MANUAL PROGRAM to manually add or delete channels.



CC (Closed Captioning)

This television contains a built-in decoder that displays **CC** (Closed Captioned) text across the screen (white or colored letters on black background). It allows the viewer to read the dialogue of a television program or other information. The program viewed must include Close Captioning for the feature to work.

CC Mode

Procedure

- In SET UP Menu, select **CC** (Closed Caption).
- Select **CC** MODE.
- Select OFF, C1, C2, T1, T2, C3, C4, T3 or T4:
 - OFF - When Closed Caption is not desired.
 - C1 - For video related information to be displayed, up to 4 lines onscreen at a time. (It does not block relevant parts of the picture). Text may be in any language.
 - C2 to C4 - For other modes of video related information.
 - T1 - For program guide and other information to be displayed, when available. (Blocks a large portion of the picture on the television screen).
 - T2 to T4 - For other modes of information. (Blocks a large portion of the picture on the television screen).
- Press the **ACTION** button to return to submenu options, and exit menus.

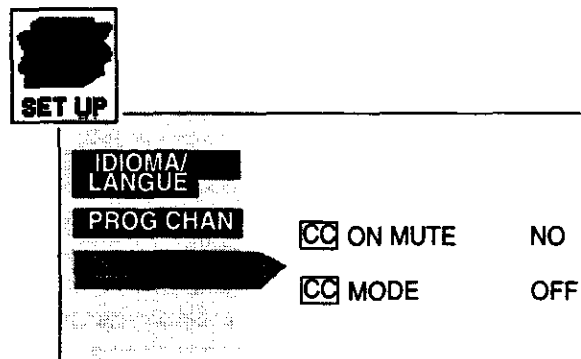
CC On Mute

Activates the onscreen Closed Caption feature when the **MUTE** button on the remote control is pressed.

Note: *This feature only functions when the Closed Caption Mode is OFF. The program being viewed must be broadcast with Closed Captioning. (Refer to your local TV guide).*

Procedure

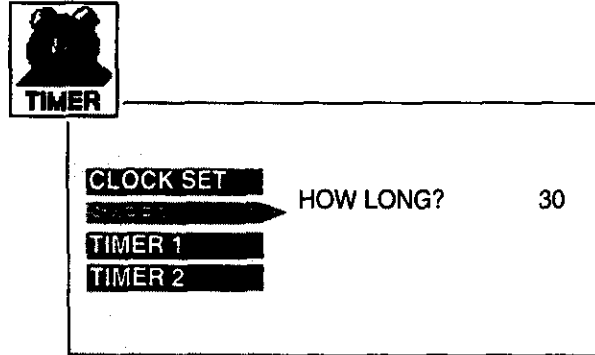
- In SET UP Menu, select **CC** (Closed Caption).
- Select **CC** ON MUTE
- Select NO, C1, C2, C3 or C4.
- Recommended set up for Closed Caption when using the **MUTE** button:
 - **CC** ON MUTE: C1
 - **CC** MODE: OFF
- Press the **ACTION** button to return to submenu options, and exit menus.
- Press the **MUTE** button to activate the Closed Caption feature.
- Press the **MUTE** button again to deactivate the feature.



TIMER

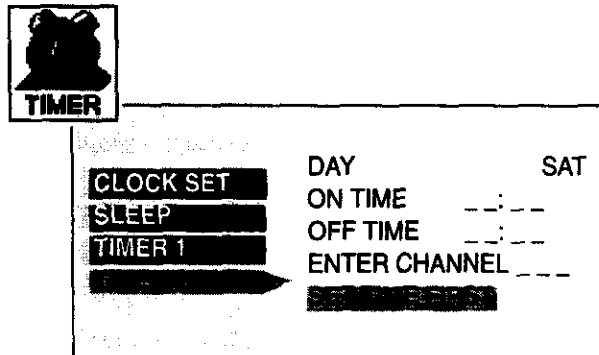
Sleep Timer

In TIMER menu, select SLEEP to turn television off in 30, 60 or 90 minutes. Select NO to turn off timer.




Timer 1 and Timer 2


In TIMER menu, select one or both timers to turn the television on and off at selected times, on selected channels, and on selected days.



Note: TIME must be entered in CLOCK SET to operate the TIMER features.

 **Turn Off After 90 Minutes**

The television automatically turns OFF after 90 minutes when turned ON by the TIMER. If the OFF time is selected or if a key is pressed, the automatic OFF after 90 minutes will be cancelled.

 **TIMER Activation**

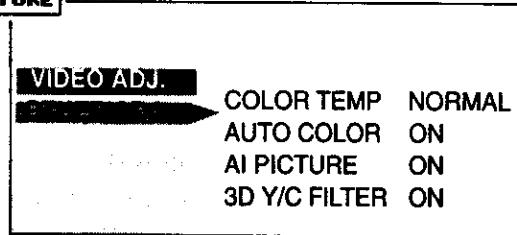
The TIMER is active when the television is OFF or ON. The television will switch to the selected channel at the selected time set in the TIMER.

PICTURE

Other Adjustments

In Picture menu under OTHER ADJ. select:

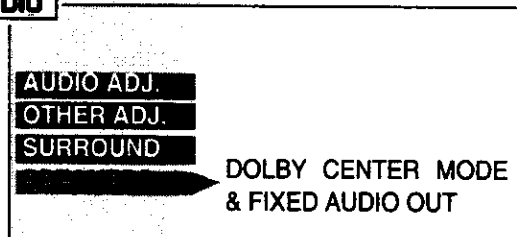
- COLOR TEMP to increase and decrease WARM (red) and COOL (blue) colors to suit personal preferences.
- AUTO COLOR ON to maintain consistent color and tint.
- AI PICTURE to optimize contrast in the picture.
- 3D Y/C FILTER to minimize noise and cross color in the picture



AUDIO

Dolby Center Mode & Fixed Audio Out

In AUDIO menu under SPEAKERS, select DOLBY CENTER MODE & FIXED AUDIO OUT to make the television the surround sound center channel. (See Installation section for Home Theater Connection).



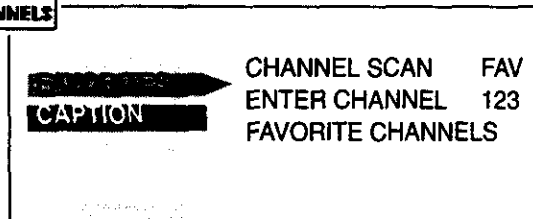
SPECIAL FEATURES

CHANNELS

Favorites

In CHANNELS menu under FAVORITES select:

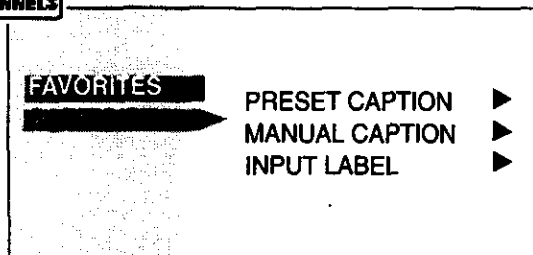
- CHANNEL SCAN FAV to enter up to 15 favorite channels.
- CHANNEL SCAN ALL to scan all channels when using the CH up/down buttons.



Caption

In CHANNELS menu under CAPTION select:

- PRESET CAPTION to enter channel numbers for popular TV stations.
- MANUAL CAPTION to enter numbers and captions manually.
- INPUT LABEL to label video input connections for onscreen display.



LOCK

MODE

To use LOCK options:

- ENTER CODE FIRST - Use the numeric keypad to enter a four-digit secret code. After entering your secret code for the first time, the onscreen display will change to CHANGE CODE.

Note: Use a code that is easy to remember or record it in a safe place.

In MODE submenu select:

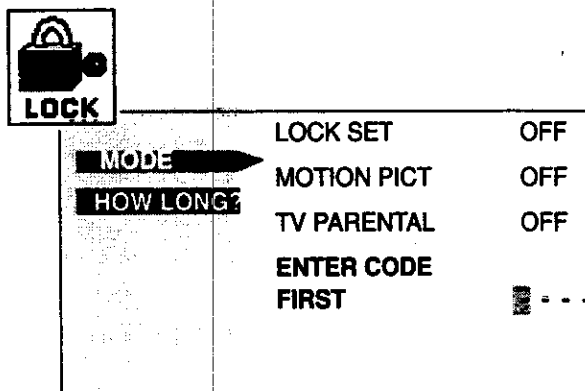
- LOCK SET to choose:
 - OFF - To turn lock function off.
 - ALL - To lock all channels and video inputs.
 - CHANNEL - To lock up to four channels of your choice.
 - GAME - To lock channels 3, 4 and video inputs.
- MOTION PICT[★] - To use Motion Picture Ratings.
- TV PARENTAL[★] - To use TV Parental Guide Ratings.
- CHANGE CODE - Use numeric keypad to change your four-digit secret code.

Note: If in CHANGE CODE you enter a different code from the one used previously, the new code becomes the controlling code.

Press the ACTION button to return to submenu, then select HOW LONG to choose the period of time you want your option to be locked (12, 24, 48 hours or ALWAYS).

Note: Be cautious when selecting ALWAYS. If ALWAYS is selected, and you forget your secret code, the television must be serviced by a qualified technician in order to clear the LOCK setup.

Press the ACTION button to return to submenu, and to exit menus.



Note: If GAME, CHANNEL or ALL is selected, and if a blocked channel or video input is selected, the message PG (Parent Guard) displays in the upper right corner of the television screen






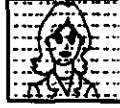



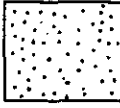










Unlock LOCK SET by reentering the same four-digit secret code and selecting OFF.

***For more information about Motion Picture Status and TV Parental Guide, see the V-CHIP Parental Lock manual provided with the TV package.**

TROUBLESHOOTING CHART

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 television from Electrical Appliances, Lights, Vehicles and Medical Equipment
 No Audio	 Normal Video	Increase Volume Check Mute Check television SPEAKERS on/off Change Channel
 Noisy Audio	 No Video with Snow	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	 Black Box on Screen	Change CC (Closed Captioning) from Text Mode
 Normal Audio	 Normal Video	Replace Remote Control Batteries
Intermittent Remote Control Operation		

