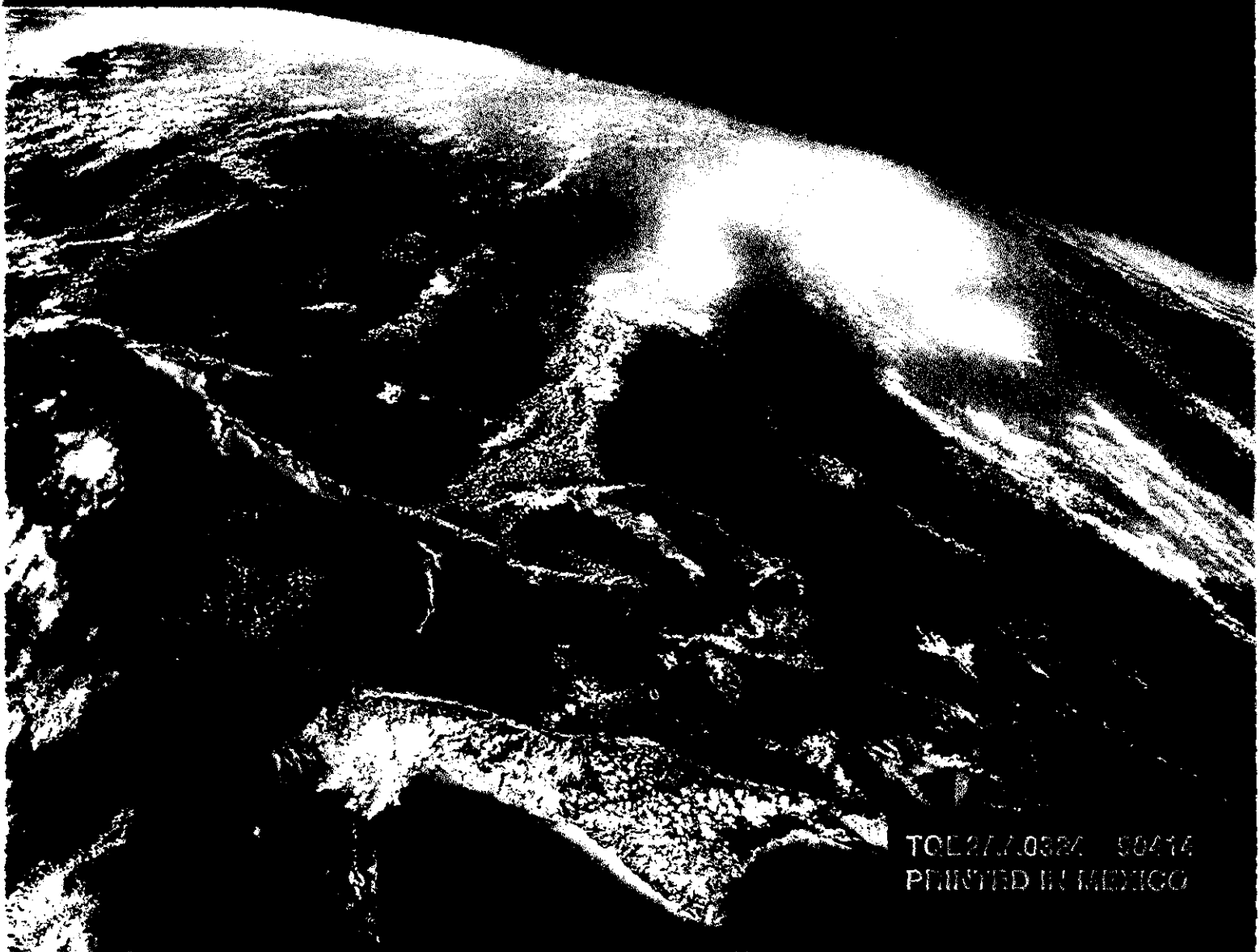


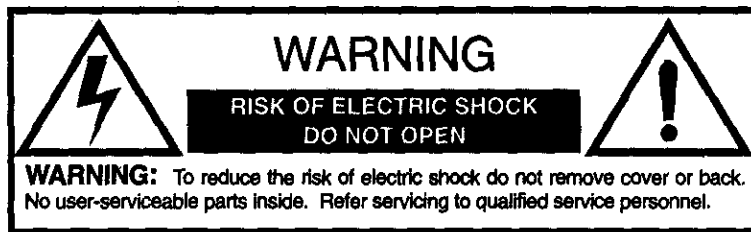
PANASONIC®

SuperFlat™ System Monitor-Receiver Operating Instructions

CT-27SF26



TCL27.0326 58414
PRINTED IN MEXICO



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 TV.

Contents are subject to change without notice or obligation.

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CONGRATULATIONS
Congratulations

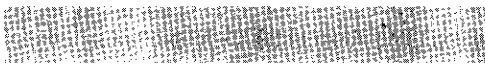
Your new SUPERFLAT™ system television has state-of-the-art picture quality and an innovative Dome sound system. It has a compact elegant styling designed to give you many years of enjoyment. It was thoroughly tested and tuned at the factory for best performance.

Customer Record

The model and serial number of this product are located on the back of the TV. 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-27SF26	120V AC, 60Hz
Channel Capability - 181	VHF-12, UHF-56, Cable-125
2 Video Input Jacks	1Vp-p, 75 Ohm, Phono Jack Type
4 Audio Input Jacks	500mV RMS 47K Ohm
2 Audio Output Jacks	0-2.0V RMS 4.7K Ohm
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 with an optional stand (TY-27SF25M) or 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

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

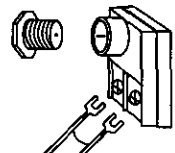


75 Ohm VHF/UHF on back of TV

Antenna Connections

- 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.

Incoming Cable from Home Antenna



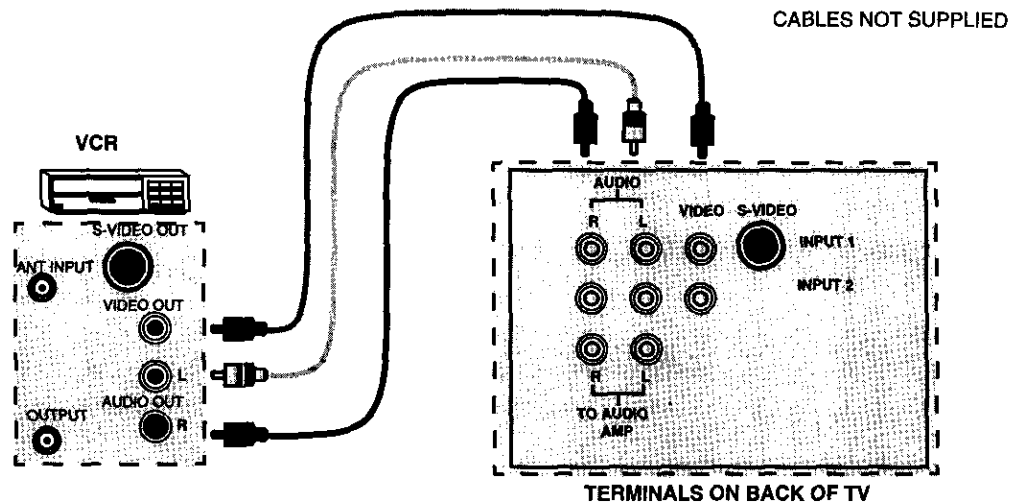
Cable Preset

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

INSTALLATION

Optional Equipment Connections

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



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**.

Procedure

1. Connect equipment to rear Audio/Video input jacks, as shown.
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)

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

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 TV volume to desired level.
4. Adjust amplifier volume to match the TV.
5. Select **SPEAKERS OFF & VAO (Variable Audio Out)** from **AUDIO** menu.
6. Volume, mute, bass, treble and balance are now controlled through the television.

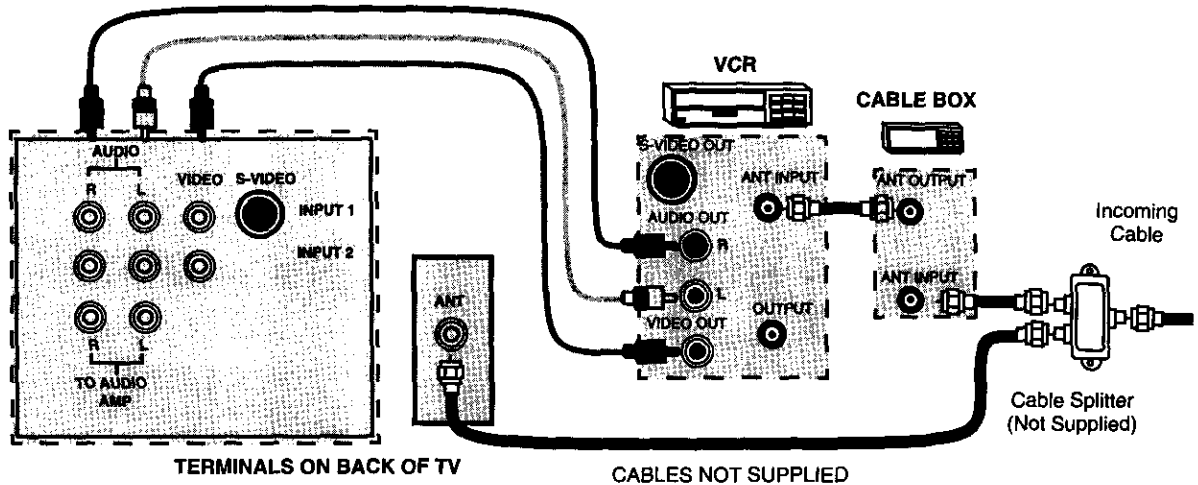
Note: Select **SPEAKERS OFF & FIXED AUDIO OUT** to control audio functions through the external amplifier.

Picture In Picture (PIP) Operation

With a VCR and Cable Box

This television includes a Picture In Picture (PIP) feature. A second video source (VCR, Camcorder, etc.) is required to provide a second picture.

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 PIP picture is the same as the main picture, initially.

To view a different picture in the PIP frame:

1. Press the **TV/VIDEO** button on the Remote Control to select the video PIP source.
2. Verify the **CABLE BOX** and **VCR** are turned on and the VCR tuned to **Channel 3 or 4, depending on the VCR.**
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.
4. 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.



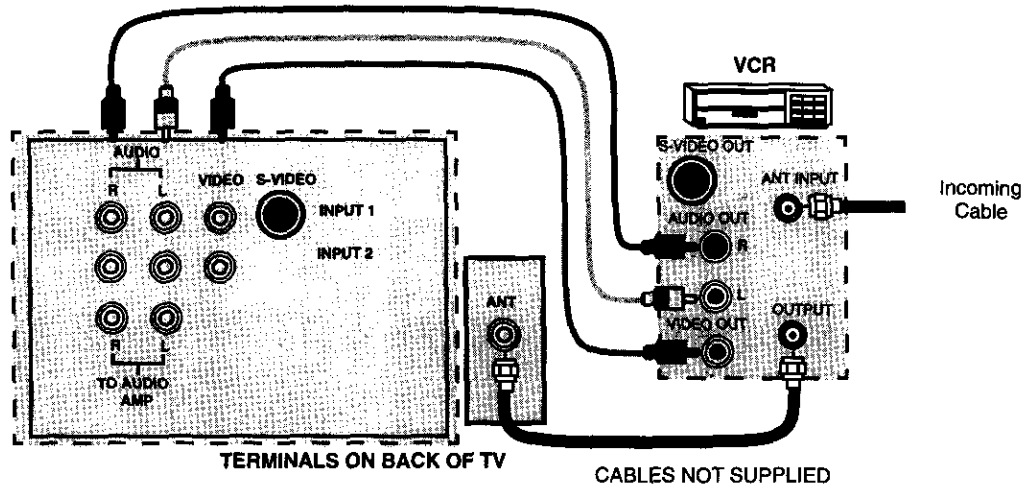
SWAP Button

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

PICTURE IN PICTURE (PIP) OPERATION **With a VCR - No Cable Box**

This television includes a Picture In Picture (PIP) feature. A second video source (VCR) is required to provide a second picture.

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.

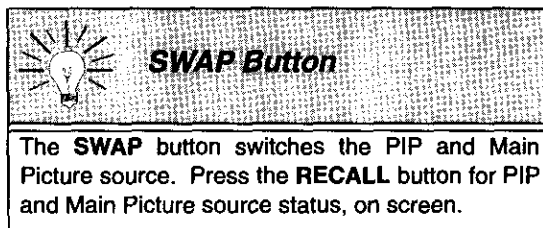
Procedure

Turn the VCR off and tune the TV to Channel 3 or 4, depending on the VCR.

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

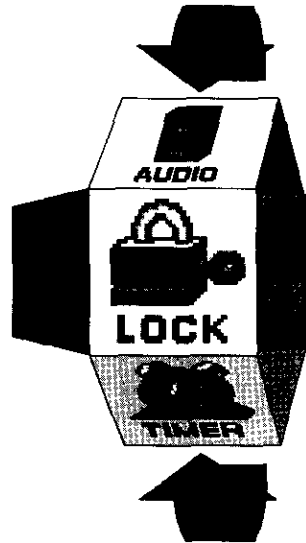
Note: The PIP picture is the same as the Main picture, initially.

1. Press the **TV/VIDEO** button on the Remote Control to select the VIDEO PIP source.
2. Press the **VCR** button on the Remote Control and turn the VCR on.
3. Press the **TV/VCR** button on the Remote Control.
4. Choose channels for *PIP* frame by pressing **VCR CHANNEL** up/down buttons on the Remote Control.
5. 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.

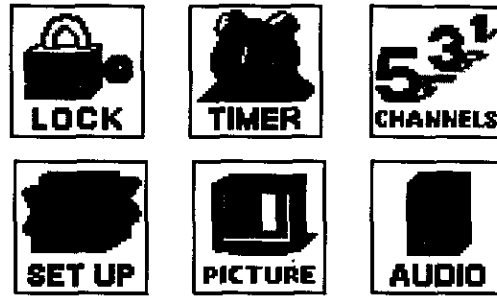


Roller Guide Menu

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.

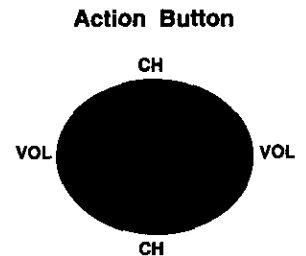
Note: Be careful to press the **ACTION** button in the middle of the button. If you do not press in the middle of the button, the channel or volume keys may be activated.

- 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 submenu.






Remote Control Guide

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



Roller Guide Feature Chart

MENU	DESCRIPTION
	SET UP
LANGUAGES	<input type="checkbox"/> Select English, Spanish, or French menu.
PROG. CHAN (Program Channels)	<input type="checkbox"/> MODE - Select Cable or TV. 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.
 (Closed Captioning)	<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 C1-C4 or T1-T4 for Closed Captioning, program guides and other information.
	AUDIO
AUDIO ADJ. (Adjustments)	<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.
OTHER ADJ. (Adjustments)	<input type="checkbox"/> AI SOUND - Automatically adjust volume to maintain a comfortable listening level. (AI sound is not available in VIDEO mode).
SURROUND	<input type="checkbox"/> SPATIALIZER® - Three dimensional surround sound with two speakers.

Roller Guide Feature Chart (Cont.)

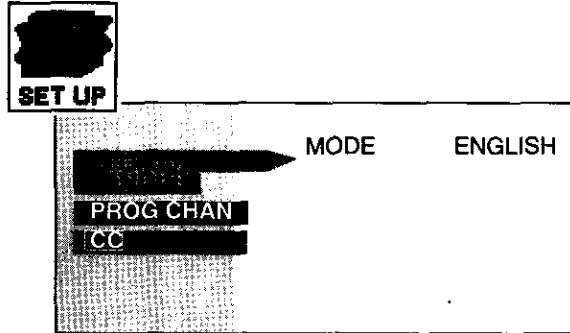
MENU	DESCRIPTION
<p>SPEAKERS</p>	<ul style="list-style-type: none"> <input type="checkbox"/> ON - TV speakers operate normally. <input type="checkbox"/> OFF & VAO (Variable Audio Output) - TV speakers off - audio adjustable by TV. <input type="checkbox"/> OFF & FAO (Fixed Audio Output)- TV speakers off — audio adjustable only by the external amplifier.
<p style="text-align: center;"> TIMER</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 TV 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;"> PICTURE</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 style="text-align: center;"> PICTURE</p>	<p style="text-align: center;">PICTURE</p>
<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.

Roller Guide Feature Chart (Cont.)

MENU	DESCRIPTION
	<p align="center">CHANNELS</p>
<p align="center">FAVORITES</p>	<p><input type="checkbox"/> CHANNEL SCAN - Select FAV (15 favorites) or ALL channels to scan channels using the up/down CH buttons.</p>
<p align="center">CAPTION</p>	<p><input type="checkbox"/> PRESET CAPTION - Enter channel numbers for preset captions.</p> <p><input type="checkbox"/> MANUAL CAPTION - Enter channel numbers and captions manually.</p> <p><input type="checkbox"/> INPUT LABEL - Label video connections for onscreen display of optional equipment.</p>
	<p align="center">LOCK</p>
<p align="center">MODE</p>	<p><input type="checkbox"/> Lock All, Channels or Game with a secret code.</p>
<p 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>

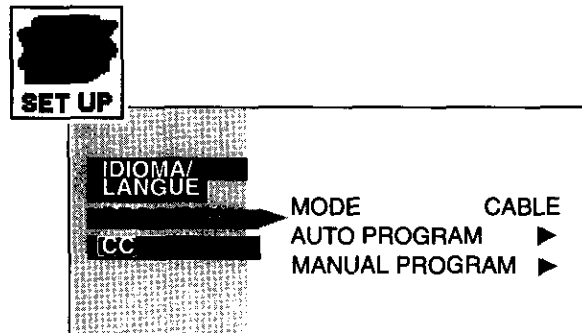
Special Features**SET UP****Menu Languages**

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.
- AUTO PROGRAM to automatically program all channels with a signal.
- MANUAL PROGRAM to manually add or delete channels.



SPECIAL FEATURES

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 **ACTION** to return to submenu options, and exit menus.

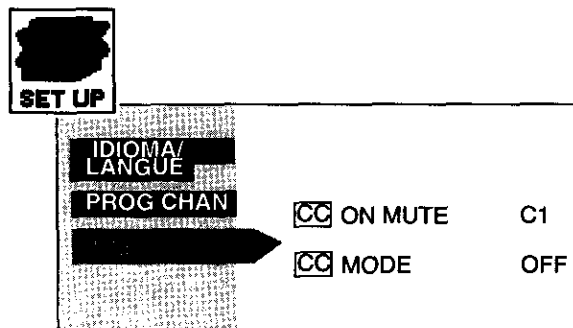
CC On Mute

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

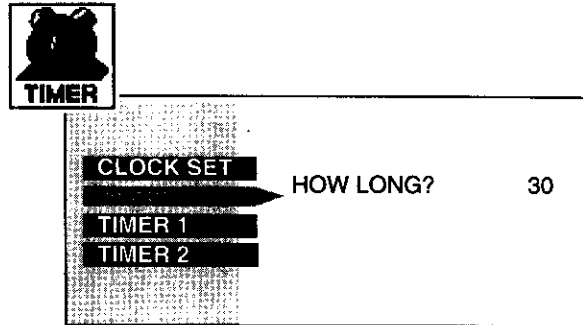
- In SET UP Menu, select **CC** (Closed Caption):
- Select **CC** ON MUTE:
- Select NO, C1, C2, C3, or C4.
- Recommended set up for Closed Caption when using the MUTE button:
 - **CC** ON MUTE: C1
 - **CC** MODE: OFF
- Press **ACTION** to return to submenu options, and exit menus.
- Press the **MUTE**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



TIMER

Sleep

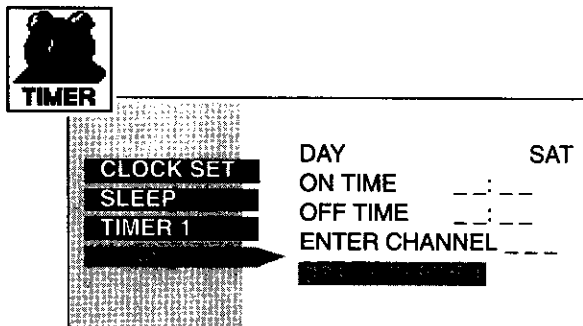
In **TIMER** menu, select **SLEEP** to turn TV off in 30, 60 or 90 minutes. Select **NO** to turn off time.




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 **TIMER** features.





Turn Off After 90 Minutes

The TV 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 TV is OFF or ON. The TV will switch to the selected channel at the selected time set in the **TIMER**.

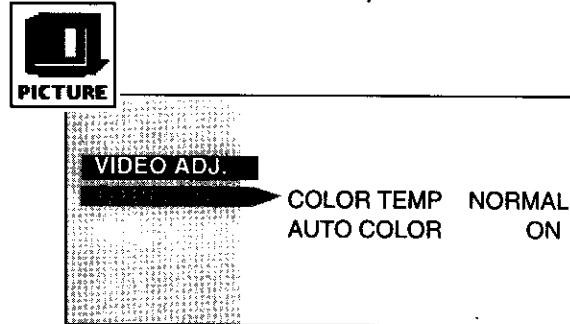
SPECIAL FEATURES

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 to maintain consistent color and tint.

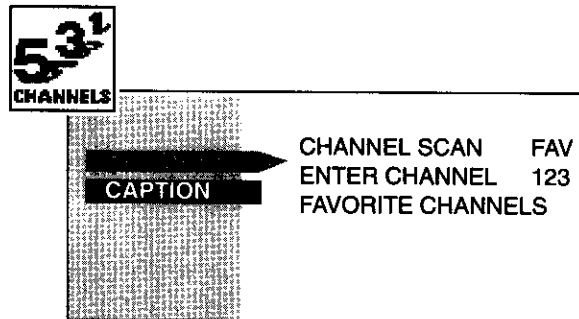


CHANNELS

Favorites

In CHANNELS menu under FAVORITES select:

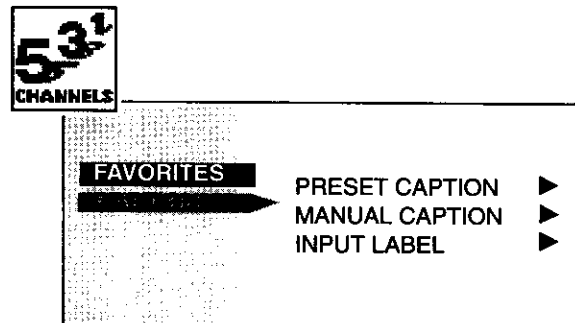
- CHANNEL SCAN FAV to enter up to 15 favorite channels.
- CHANNEL SCAN ALL to scan all channels when using the CH up/down buttons.



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:

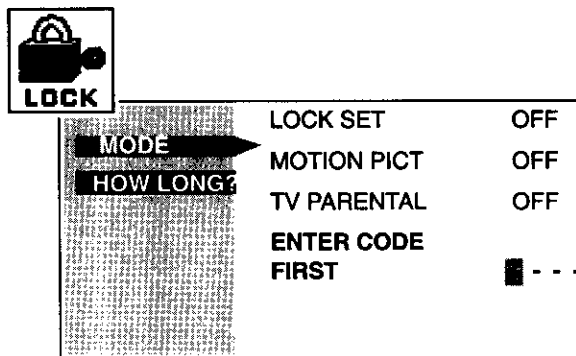
- LOCK SET to choose:
 - OFF - To turn lock function off.
 - ALL - To lock all channels and video inputs.
 - CHANNEL - To lock up to four channels of your choice.
 - GAME - To lock channels 3, 4 and video inputs.
- MOTION PICT[★] - To use Motion Picture Ratings.
- TV PARENTAL[★] - To use TV Parental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


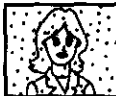







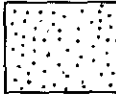










Unlock LOCK SET by reentering the same four-digit secret code and selecting OFF.

***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 TV 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 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		