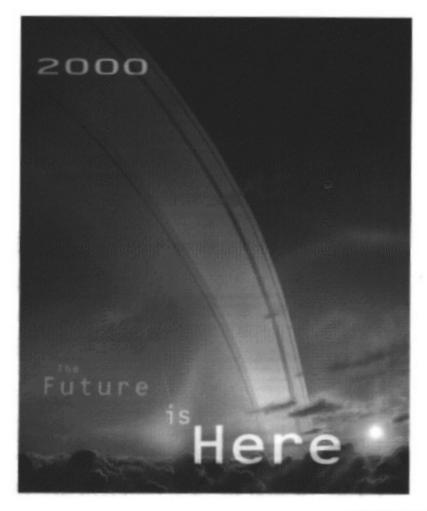
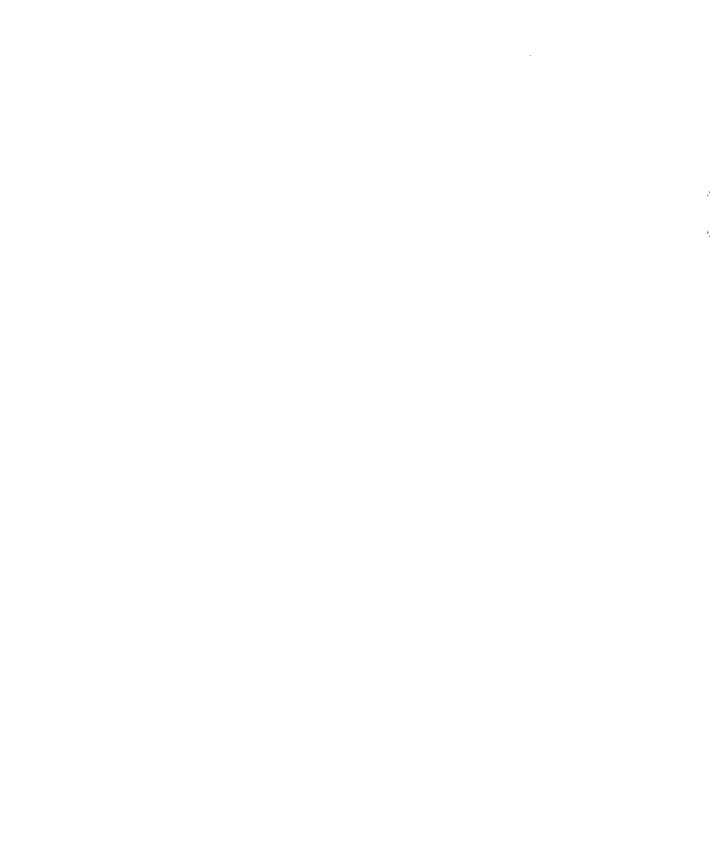
# **Panasonic**<sup>®</sup>

# Color Video Projection System Operating Instructions

PT-65WX50



TQB2AA0343 00508 PRINTED IN MEXICO



#### 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

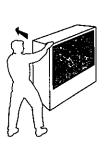
Para mover el conjunto, empuje desde el lado izquierdo del mismo. Los rolanas de la derecha no son pivotantes en todas las direcciones. El conjunto se puede tumbar si se lo mueve desde el lado derecho, corriendo así el riesgo de sufrir daños personales.

# Mise en garde

Lors du déplacement du téléviseur, le pouser 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。





Certain audio features of this product manufactured under a ticense 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.



# **WARNING**

#### RISK OF ELECTRIC SHOCK DO NOT OPEN



**WARNING:** To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.



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.

Parasoric Consumer Bectrorics Company, Division of Metsushita Bectric Corporation of America One Parasoric Way Secausus, New Jersey 07094 www.parasori.ccom (800) 222-4213

# Table of Contents Table of Contents

Congratulations	3
Customer Record	3
Care and Cleaning	
Specifications	3
Installation	4
Television Location	4
Optional Cable Connections	4
AC Power Supply Cord	
Cable / Antenna Connections	
Optional Equipment Connections	5
VCR Connection	5
Front A/V Input Jacks	€
Cable Box Connection	6
VCR and Cable Box Connection	7
Amplifier Connection (To Audio Amp)	
Program Out Connection (PROG. OUT)	
Digital TV Set-Top Box (DTV-STB) Connection	
Home Theater Connection	10
Split Screen Operation	11
Without a VCR	
With a VCR and Cable Box	
With a VCR - No Cable Box	
Remote Control	12
<b>Quick Reference Functional Key Chart</b>	13
Programming The Remote	
Component Codes	
Roller Guide Menu	
Basic Navigation	
Roller Guide Menu Chart	
Special Features	
Menu Languages	
Channel Programming	
Closed Captioning  Convergence Adjustment	
Sleep Timer	
Timer 1 and 2	
Picture Adjustments	
Audio Adjustments	
Favorite Channels and Captions	29
Lock	
Troubleshooting Chart	32

Read these instructions completely before operating TV.

Contents are subject to change without notice or obligation.

Copyright 2000 by Matsushita Electric Corporation of America. All rights reserved. Unauthorized copying and distribution is a violation of law.

# Congratulations

Your new Projection Television (PTV) features state-of-the-art technology for high-quality picture and sound with complete audio/video connections for your home theater system. Standard television signals are displayed in a progressive scan format, providing a clear, crisp picture without visible scan lines. This PTV is also DTV (Digital TV) compatible. When connected to a Panasonic digital TV set-top box, this TV can display high-definition (HDTV) 1080i and 720p formats and standard definition (SDTV) 480p format. Your new PTV is designed to give you many years of enjoyment. It was thoroughly tuned and tested 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 is available at: www.prodreg.com/panasonic.

Model	- 1
Number	
Serial	
Number	

# Care and Cleaning

#### Protective Screen (Turn PTV Off)

The projection screen is a precision lens system and has a protective screen. The protective screen is fully washable with the following precautions:

- Use a mild soap solution or window cleaner and a clean cloth.
  - DO NOT USE ABRASIVE CLEANERS.
  - Do not use laundry detergent or automatic dishwasher soap.
  - 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.

#### 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**

<u></u>	
Power Source PT-65WX50 (4.4A)	120V AC, 60Hz
Channel Capability - 181	VHF-12; UHF-56; Cable-125
4 Video Input	1Vp-p, 75 Ohm, Phono Jack Type
6 Audio Input (2 Component)	500mV RMS 47K Ohm
1 S-Video Output Jack	1Vp-p, 75 Ohm, Phono Jack Type
1 Audio Output	0-2.0V RMS 4.7K Ohm
4 S-Video Jacks (3 inputs & 1 output)	S-Video (Y-C) Connector
2 Component Video Inputs (Y, PB, PR)	75 Ohm, Phono Jack Type

Specifications are subject to change without notice or obligation.

## Installation

#### Television Location

This unit can 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, 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.
- 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.

Polarized Plug



#### Cable / Antenna Connections

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).

Incoming Cable from Cable Company



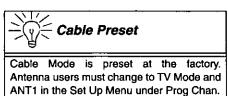
75 Ohm VHF/UHF

on back of TV

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

#### 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 back of television. Select TV mode and ANT1 in the SET UP Menu under Prog Chan.



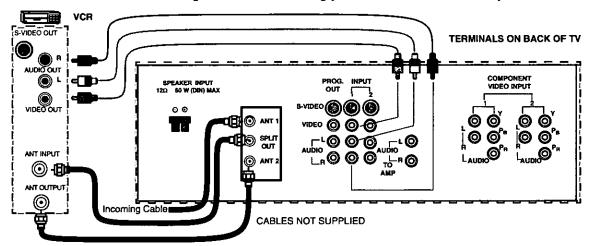
**Incoming Cable from** Home Antenna



# **Optional Equipment Connections**

#### **VCR Connection**

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



Note: The remote control must be programmed with supplied codes to operate the VCR. See Programming the Remote Control in this manual.

#### Viewing a television program

#### **Procedure**

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

#### Viewing a video cassette tape

#### **Procedure**

- Option A
  - Select ANT1 in the SET UP menu under Prog Chan (Program Channels).
  - 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 (Program Channels).
  - 2. Tune the television to Channel 3 or 4, depending on your VCR.
  - 3. Begin the video.

Note: The S-VIDEO connection is optional and overrides other VIDEO connection.

#### Recording a television program

#### **Procedure**

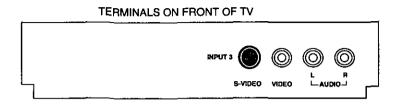
- Option A (Recording and viewing the same program)
  - 1. Select ANT2 in the SET UP menu under Prog Chan (Program Channels).
  - 2. Tune the television to Channel 3 or 4, depending on your VCR.
  - 3. Using the VCR, tune to the television program you want to record.
  - 4. Begin recording.
- Option B (Recording one program while viewing another program)
  - Select ANT1 in the SET UP menu under Prog Chan (Program Channels).
  - Press the TV/VIDEO button on the remote control to select the video input (VIDEO 1, VIDEO 2, etc.) connected to your VCR.
  - Using the VCR, tune to the television program you want to record.
  - Begin recording.
  - 5. Press the TV/VIDEO button on the remote control to switch back to regular television.
  - 6. Tune the television to the television program you want to view.



# **Optional Equipment Connections (Cont.)**

#### Front A/V Input Jacks

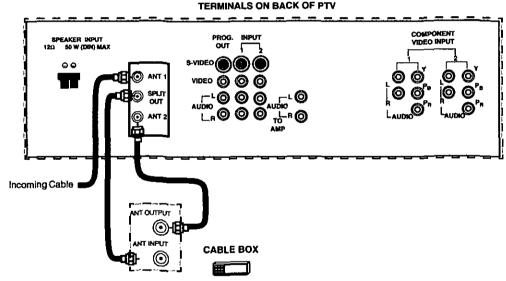
Open the door on the PTV front panel to use the terminals for your optional equipment. Press the **TV/VIDEO** button to select VIDEO 3 input mode.



Note: 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.

#### Cable Box Connection

Follow this diagram when connecting your PTV 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 this manual.

# Viewing a premium (scrambled) cable channel

#### **Procedure**

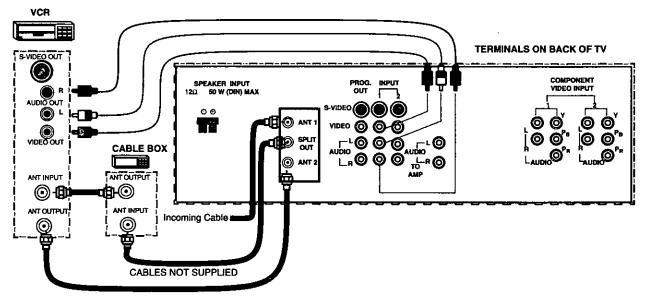
- Select ANT2 in the SET UP menu under Prog Chan (Program Channels).
- Tune the television to Channel 3.
- Using the cable box, tune to the premium (scrambled) cable channel you want to view.

**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 (Program Channels).

# **Optional Equipment Connections (Cont.)**

#### 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 this manual.

#### Viewing a premium (scrambled) cable channel

#### **Procedure**

- Select ANT2 in the SET UP menu under Prog Chan (Program Channels).
- Tune the television to Channel 3.
- Using the cable box, tune to the premium (scrambled) 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 (Program Channels).

# Recording a premium (scrambled) cable channel

#### **Procedure**

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

Note: To view a different channel while recording:

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

# **Optional Equipment Connections (Cont.)**

#### 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 on screen AUDIO menu.
- Set amplifier volume to minimum.
- 3. Adjust TV volume to desired level.
- Adjust amplifier volume to match the TV.
- 5. Select SPEAKERS OFF & VARIABLE AUDIO OUT from AUDIO menu.
- 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.

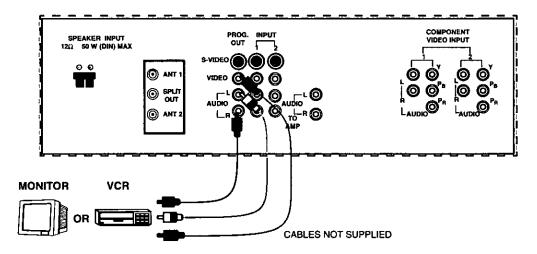
#### Program Out Connection (PROG. OUT)

For monitoring the television audio and video with optional video equipment, connect to PROG. OUT terminals on the back of the TV.

#### **Procedure**

- Connect optional video equipment to PROG. OUT video and TO AUDIO AMP R/L Audio terminals.
- 2. PROG OUT terminal display is the same as the on screen display.
- See optional equipment manual for further instructions for recording or monitoring.

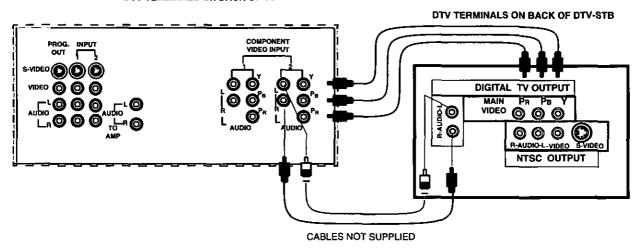
#### TERMINALS ON BACK OF TV



# Digital TV Set-Top Box (DTV-STB) Connection

Use this diagram to connect the Panasonic DTV-STB (Digital TV-Set-Top Box) to the back of your TV.

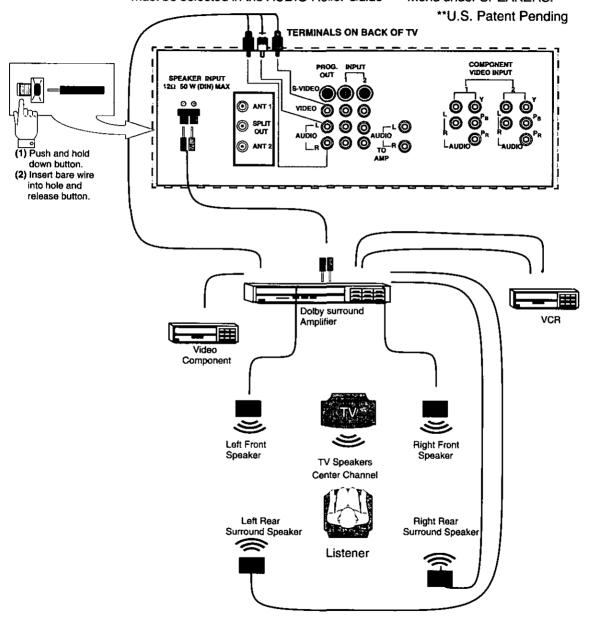
#### **DTV TERMINALS ON BACK OF TV**



**Note:** There are two sets of component video inputs. Each has three video inputs, Y, P<sub>B</sub> and P<sub>R</sub>. Separate component color inputs provide luminance and color separation. Use component audio input 1 or 2 L (left) and R (right) for connecting to audio output of Panasonic DTV-STB.

#### **Home Theater Connection**

Your TV can be configured to use the TV speakers as center channel speakers in Dolby\* surround sound transmission. Connect a Dolby surround sound amplifier to CENTER CHANNEL INPUT on the back of the TV, as shown. EXT & FAO must be selected in the AUDIO Roller Guide™\*\* Menu under SPEAKERS.



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

# Split Screen Operation

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

Note: The Remote Control must be programmed with supplied codes to operate the VCR and Cable Box. See Programming the Remote Control in this manual.

#### Without a VCR

#### Procedure

- Connect incoming cable to antenna (ANT 1) input on back of TV.
- Press the SPLIT button on the Remote Control to display the Split Screen.

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

- Choose channels for the Split Screen Picture by pressing the Remote Control SPLIT 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 and Cable Box

#### **Procedure**

Press the SPLIT button on the Remote Control to display the Split Screen.

Note: The audio is for the Main Picture only.

To view scrambled channels through your Cable Box on the Split Screen:

- Verify the Cable Box and VCR are ON and the VCR tuned to Channel 3 or 4, depending on the VCR.
- Press the TV/VIDEO button on the Remote Control to select the video input for your VCR.
- Press CBL button on the Remote Control to select cable box.
- Choose channels for the Split Screen by pressing the SPLIT CHANNEL up/down buttons on the Remote Control or by using the numeric keypad.
- 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.

#### With a VCR- No Cable Box

#### **Procedure**

Press the SPLIT button on the Remote Control to display the Split Screen.

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

To view an external video source in the Split Screen:

- Press the TV/VIDEO button on the Remote Control to select the video input for your VCR.
- Verify the VCR is on.
- Insert a tape into the VCR and push Play button to watch the video in the Split Screen.
- 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.

Note: The SWAP button switches the Split Screen and Main Picture source. Press the RECALL button for Split Screen status, onscreen.

# Remote Control

POWER

Press to turn ON and OFF.

MUTE

Press to mute sound. Press to access and cencel CC (Closed Caption) and CC On Mute.

ACTION

Press to access menus.

CH

Press to select next channel and movigate in monus.

\*R-TUNE

Press to switch to previously viewed channel or video mode.

EXIT/GUIDE

DBS function buttons.

REW, PLAY, FF, TV/VCR, STOP, PAUSE, REC, VCR CHANNEL

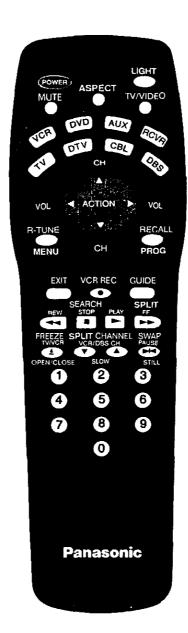
Component function buttons.

OPEN/CLOSE, SLOW, STILL DVD functions buttons.

SEARCH, SPLIT, FREEZE, SPLIT CHANNEL, SWAP

SPLIT function buttons.

\*To prolong the life of the batteries, turn the light off and on by pressing R-TUNE and RECALL buttons, simultaneously.



ASPECT

Select ploture atta frambility and chip programming frambi

TV/VIDEO

Press to select TV prayed to the

VCR, DVD(LD/CD)☆, AUX, RCVR, TV, DTV, CBL, DBS, RCVR

Press to sales entropy addition.

VOL

Press to educy Theorem and a construction of the construction of t

\*RECALL

Press to display this, gradies : (

MENU/PROG

Optional buttons for use with a Set-Top Box.

"0" - "9"

C. DRAFFISH A

EUR511165

☆To Control CD, LD or DVD player, press DVD button first.

# QUICK REFERENCE FUNCTIONAL KEY CHART Quick Reference Functional Key Chart

Rey	estates	Function
POWER	All Components <sup>भे</sup>	Turns On and Off selected components
LIGHT	Remote Control	Illuminate buttons
MUTE	TV CABLE	Mutes TV audio
ASPECT	DTV TV	Select picture size (ratio) to match programming format
TV/VIDEO	TV RCVR	Selects the input mode
VCR DVD AUX RCVR (YCR DVD AUX) RCVR (YV CBL DBS)	All Components	Component mode selection for remote control
	TV CBL VCR CH	Channel Up/Down
	DBS RCVR DBS DTV CH	Navigation Up/Down
(CH)	LD	Next/Previous Chapter
VOL ACTION VOL	CD	Next/Previous Track
CH/	TV CBL VCR LD CD RCVR AUX	Volume (+/-)
	DBS DVD DTV	Navigation Left/Right
	TV	Roller Guide Menu
_	VCR	Menu
ACTION	CABLE	Enter
	DBS	DBS Menu
	DVD	Select
	TV CABLE DBS	Previous Channel
R-TUNE	DVD	DVD Menu
MENU	AUX (Cassette Deck)	Deck A/B
	DTV	Menu On/Off

Key	Operates	Function
RECALL	TV VCR CBL DBS DVD LD	Onscreen Display
PROG	CD	Time Format
	DTV	Set-Top Box Program
1 2 3	TV VCR CABLE DBS	Selects Channel
4 5 6	All Components	Selects Code
7 8 9	CD	Selects Track
(0)	RCVR	Keys 1,2,3 and 4 select A/V inputs; 5 Cd; 6 Tuner; 7 Phono; 8 Cassette Deck; 9 Aux
EXIT	DBS	Exit Menus s
	DBS	DBS Guide
GUIDE	DVD	Title
	LD	Repeat AB
	CD	Next Disc
PLAY	VCR DVD CD AUX (Cassette Deck)	Play
""	TV	SPLIT On/Off
SPLIT	VCR AUX (Cassette Deck)	Fast Forward
FF ♠	DVD LD	Skip Search Fast Forward
	CD	Search Fast Forward
	RCVR	Surround (+)
	VCR AUX (Cassette Deck)	Rewind
REW	DVD	Skip Search Fast Rewind
€	CD	Search fast Rewind
	RCVR	Surround (-)
SEARCH	TV	SPLIT Search
STOP	VCR DVD CD LD	Stop
	AUX (Cassette Deck)	

Key	<b>Operates</b>	(Auneillon
VCR REC	VCR DBS AUX (Cassette Deck)	Record
	τv	SPLIT Freeze
FREEZE TV/VCR	VCR	TV/VCR Switch
OPEN/CLOSE	DVD CD LD AUX (Cassette Deck)	Open/Close
SWAP	TV	SPLIT Swap
PAUSE O STILL	VCR CD LD AUX (Cassette Deck)	Pause
	DVD	Still
	TV	SPLIT Channel
	vcr	Channel Up/Down
SPLIT CHANNEL VCR /DBS CH	DVD	Channel Up/Down (slow +/-)
SLOW	DBS	Page Up/Down
	СD	Repeat (+) - Random (-)
	RCVR	Center Channel (+/-)

# **Battery Installation**

Use two AA batteries:

Remove battery cover by pushing in and up near arrow. Install batteries matching (+) and (-) polarity signs.

Replace the battery cover.

Precautions

Replace batteries in pairs.

Do not mix battery types (zinc carbon with alkaline). Do not recharge, heat, short-circuit, disassemble, or burn batteries.

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

# **Programming The Remote**

The Universal Remote Control can be programmed to operate many manufacturers' components, using the component function buttons for VCR, DVD, AUX, TV, CABLE, DBS or RCVR. Follow the procedures for programming your Remote Control with or without a code for the component.

Determine the manufacturer of the component and look in the table for the code.

#### WITH A CODE

- Confirm that the external component is plugged in and on.
- Turn the component off.
- Press the ACTION and POWER button, together, for at least 5 seconds.
- Press appropriate component button on the Remote Control. (VCR, DVD, AUX, TV, CABLE, DBS or RCVR)
- Enter the 3-digit component code using the Remote Control numeric keypad (0 ~ 9 buttons).
- Press the Remote Control POWER button to test the component. If the procedure was successful, the component will turn on.

# Helpful Hints: Unsuccessful Code If the component does not operate with the Remote Control, repeat the procedure using another code. (Some brands have multiple codes.) If an incorrect code is entered, or if the procedure takes longer than 30 seconds, the programming

#### WITHOUT A CODE

This procedure searches all codes and is called the "sequence method".

will fail.

- Confirm that the external component is plugged in and on.
- Turn the component off.
- Press the ACTION and POWER button, together, for at least 5 seconds.
- Press appropriate component button on the Remote Control.
- Press the button to move forward to the next code. Press the do button to move backward.
- Press the Remote Control POWER button to test the component. If the procedure was successful, the component will turn on.

**Note:** Repeat the above steps until the component code is found. It may take many attempts before the correct code is found.

After the code is found, press the ACTION button to store the code.

Write the code number to program your Remo		ace. This will serve as	a reference if you need
CABLE BOX	DVD	VCR	DBS

# Component Codes

The Universal Remote Control is capable of operating many component brands after entering a code. Some components may not operate remotely because the codes are not available due to limited memory. The Universal Remote Control does not control all features in all models.

#### **Codes for VCR**

Brand	Code
Admiral	200
Aiwa	160
Akai	014, 015, 016, 142
Audio Dynamic	011, 240
Bell & Howell	005. 013
Broksonic	081, 136
Canon	125, 135
Citizen	006
Craig	005, 006, 141
Curtis Mathes	130, 300
Daewoo	001, 130, 250
DBX	010, 011, 140
Dimensia	300
Emerson	003, 080, 081, 135, 136, 243, 250
Fisher	005, 007, 008, 009
Funai	081, 136
GE	130, 170, 300
Goldstar	006
Hitachi	000, 125, 300
Instant Replay	125, 130
Jensen	240
<b>JAC</b>	010, 011, 190, 240
Kenwood	006, 011, 190, 240
LXI	000, 005, 006, 007, 008, 009
Magnavox	125, 130, 150
Marantz	010, 011, 240
Marta	006
Memorex	009, 130
MGA/Mitsubishi	230, 241, 242, 243, 330, 340
Minolta	000, 300
Mitsubishi	230, 241, 242, 243, 330, 340
Multitech	004, 330
NEC .	010, 011, 190, 240

Brand	Code
Olympic	125, 130
Optimus	006, 100, 140, 200
Orion	081, 136
Panasonic	100, 101, 125, 130
J.C. Penney	000, 005, 010, 011, 130, 240, 300
Pentax	000, 011, 300
Philco	081, 125, 130, 136, 150
Philips	125, 130, 150
Pioneer	125
Proscan	000, 001, 002, 125, 130, 150, 300, 310
Quasar	100, 101, 125, 130
Radio Shack	005, 009, 130, 170, 210, 241
RCA	000, 001, 002, 125, 130, 150, 170, 300, 310
Realistic	005, 009, 130, 210, 241
Samsung	002, 004, 220
Sansui	051, 081, 136, 240, 520
Sanyo	005, 009
Scott	001, 002, 004, 009, 081,136, 230, 241, 330, 340
Sears	000, 005, 006, 007,008
Shintom	050
Sharp	200, 210
Signature 2000	200
Sony	140, 141, 142
Sylvania	125, 130, 150
Tashiro	006
Tatung	010, 011, 240
Teac	010, 011, 240
Technics	100, 101, 125, 130
Teknika	130
Toshiba	001, 310
Vector Research	011
Mont. Wards	006, 009, 200, 210, 290
Yamaha	005, 010, 011, 240
Zenith	290

# **Codes for Cable Box**

Brand	Code
ABC	530
Archer	531, 544
Cableview	005, 544
Citizen	005, 522
Curtis	130, 131
Diamond	530, 531, 544
Eagle	541
Eastern	560
GCBrand	005, 544
Gemini	522
General Instrument/ Jerrold	122, 360, 520, 521, 522, 530, 531, 532, 533
Hamlin	130, 350, 720, 730, 731, 900
Hitachi	003, 530
Macom	003, 004, 005
Magnavox	535
Memorex	542
Movietime	005, 544
Oak	002, 704, 710
Panasonic	120, 121, 132
Philips	006, 541, 542
Pioneer	001, 260

Brand	Code
Pulsar	005, 544
Puser	544
Realistic	544
Regal	130, 350, 720, 730, 731, 900
Regency	560
Rembrandt	005, 544, 702
Samsung	005
Scientific Atlanta	122, 130, 131
Slmark	001, 005
Sprucer	005, 121
Stargate	005, 544
Teleview	001, 005
Texscan	810
Tocom	700, 701
Toshiba	004
Unika	531, 544
Universal	522, 544
Videoway	006
Viewstar	541, 542
Zenith	000, 280
Zenith/Drake Satellite	000

# **Codes for Laser Disc**

Brand	Code
Panasonic	100, 101, 135, 380
Pioneer	370
Sony	140, 141, 142, 143

# **Codes for DVD**

Brand		Code	
Denon	100		-
Ferguson	110		
Nordmende	110		
Mitsubishi	150		····
Panasonic	100	<del></del>	
Pioneer	120		

Brand		Code	
RCA/Proscan	110		
Saba	110	·	
Sony	140		
Thomson	110		<del></del>
Toshiba	130		
Yamaha	100		

# **Codes for DBS**

Brand	7	Code	
Echo Star	110		
GE	170		
Hitachi	411		
HNS(Hitachi)	050		
Panasonic	100	<del></del>	

Brand	Code
Philips	001, 002
RCA	170, 409, 410
Sony	390
Toshiba	000
Uniden	001, 002

# **Codes for CD**

Brand	Code
Admiral	510
Aiwa	562, 564
Carver	550
Denon	600
Emerson	572
Fisher	405
Garrard	457
Harman/Kardon	459, 460, 462
Hitachi	407
Jensen	563
JVC	590, 591, 670
Kardon	458
Kenwood	400, 401, 450, 670
LXI/Sears	565
Magnavox	550, 561
Marantz	550
McIntosh	460
Nakamichi	432

Brand	Code
Onkyo	453, 454
Optimus	430, 457, 459, 461
Panasonic	500, 501, 530
Philips	550
Pioneer	430
Quasar	501, 530, 500
RCA	560, 570, 571, 900
Sansui	432, 720
Sanyo	405
Scott	432, 720
Sharp	600, 601
Sherwood	459
Sony	540
Soundesign	620
Teac	451, 455, 457
Technics	500, 501, 530
Victor	590, 591, 670
Yamaha	402, 403, 404

# **Codes for Cassette Deck**

Brand	Code
Aiwa	760, 761, 762
Denon	800
Fisher	603
Jensen	657
JVC	780, 781
Kenwood	600, 650
Marantz	751
Nakamichi	631
Onkyo	651, 652, 656

Brand	Code
Panasonic	700, 730
Philips	751
Pioneer	630
RCA	763, 770, 771
Sansui	631, 653
Sharp	800
Sony	740
Teac	653, 654, 658
Technics	700, 730
Yamaha	601, 602

# **Codes for Receivers**

Brand	Code
Admiral	110
Aiwa	160, 161
Denon	200, 201, 202
Fisher	004
Garrard	055
Harman	050, 157
Jensen	164
JVC	190, 191
Kenwood	000, 050
Magnavox	162
Marantz	151
McIntosh	058
Nakamichi	031
Onkyo	051, 056

Brand	Code	
Optimus	003, 162, 170, 171	
Panasonic	100, 101, 130	
Philips	150	
Pioneer	030, 032	
Quasar	100, 101, 130	
RCA	003, 030, 162, 170, 171	
Sansui	003, 053, 320	
Sharp	200, 203	
Sony	140	
Soundesign	220	
Teac	053, 054, 055	
Technics	100, 101, 130	
Victor	190, 191	
Yamaha	001, 002	



## **ROLLER GUIDE MENU™\* SELECTIONS**















\*Rollerguide Trademark

# **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<sup>™</sup>.

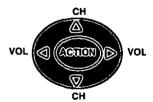
**Note:** Be careful to press the **ACTION** button in the middle of the button. If you do not press in the middle of the button, the channel or volume keys may be activated,

- ☐ Press the CH up/down buttons to rotate the Roller Guide.
- ☐ Press the left **VOL** button to exit the Roller Guide Menu<sup>™</sup>.

# Navigation in the Roller Guide

#### **Procedure**

- Press the ACTION button to display the selected Icon menus.
- Press the CH up/down buttons to select desired menu.
- Press the right VOL button to highlight submenus.
- Press the CH up/down buttons to highlight desired submenus.
- Press the VOL buttons to select and adjust features.
- Press the ACTION button repeatedly to exit.



# Roller Guide Menu Chart

MENU	DESCRIPTION
SET UP	SET UP
IDIOMA/LANUGE (LANGUAGES)	☐ Select English, Spanish, or French menu.
PROG. CHAN (Program Channels)	<ul> <li>MODE - Select Cable or TV (Antenna).</li> <li>See Installation section in manual.</li> <li>ANTENNA - Select ANT 1 or ANT 2. See Installation section in manual.</li> <li>AUTO PROGRAM - Automatically program channels having a signal into memory.</li> <li>MANUAL PROGRAM - Manually add or delete channels from memory.</li> </ul>
CC (Closed Captioned)	<ul> <li>CC ON MUTE - Select C1-C4 for Closed Captioning display when the Remote MUTE button is pressed.</li> <li>CC MODE - Select OFF, C1, C2, T1, T2, C2, C4, T3, or T4 for transmitted information, if available, in large black box.</li> </ul>
OTHER ADJ.	CONVERGENCE - 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
AUDIO ADJ. (Adjustments)	<ul> <li>MODE - Select STEREO, SAP (Second Audio Program) or MONO. (Use MONO when stereo signal is weak.)</li> <li>BASS - Increase or decrease the bass response.</li> <li>TREBLE - Increase or decrease the treble response.</li> <li>BALANCE - Emphasize the left/right speaker volume.</li> <li>NORMAL - Reset BASS, TREBLE and BALANCE to factory default.</li> </ul>
OTHER ADJ. (Adjustments)	Al SOUND - Equalize overall volume levels across all programs. (Al sound is not available in VIDEO mode).

# ROLLER GUIDE MENU CHART Roller Guide Menu Chart (Cont.)

MENU	DESCRIPTION
SURROUND	☐ SPATIALIZER <sup>®</sup> - Three dimensional surround sound with two speakers.
SPEAKERS	<ul> <li>AUDIO SOURCE</li> <li>TV - speakers operate normally.</li> <li>EXT &amp; VAO (Variable Audio Output) -         TV speakers off - audio adjustable by TV.</li> <li>EXT &amp; FAO (Fixed Audio Output)-         TV speakers off — audio adjustable only by the external amplifier.</li> </ul>
TIMER	TIMER
CLOCK SET	Set the time and the day of the week. (Time will display onscreen after turning the television on, pressing the RECALL button or changing channels).
SLEEP	Set timer to turn off TV in 30, 60 or 90 minutes. Select NO to turn timer off.
TIMER 1 TIMER 2	Set one or both timers to automatically turn TV on and off at selected times, on selected channels, and on selected days. (Clock must be set to use Timer features.)
PICTURE	PICTURE
VIDEO ADJ. (Adjustments)	<ul> <li>□ COLOR - Adjust desired color intensity.</li> <li>□ TINT - Adjust natural flesh tones.</li> <li>□ BRIGHTNESS - Adjust dark areas for crisp detail.</li> <li>□ PICTURE - Adjust white areas of picture.</li> <li>□ SHARPNESS - Adjust clarity of outline detail.</li> <li>□ NORMAL- Reset all picture adjustments to factory default settings.</li> </ul>

# Roller Guide Menu Chart (Cont.)

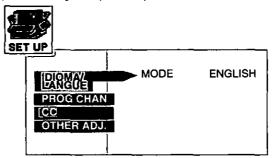
MENU	DESCRIPTION			
OTHÈR ADJ. (Adjustments)	<ul> <li>COLOR TEMP - Adjust white balance to COOL (blue), WARM (red) or NORMAL.</li> <li>SCAN MODE - Picture adjustment when switching between video games and DTV picture, if needed.</li> <li>COLOR MATRIX - Select HD or SD to automatically adjust color parameters for HD (high definition) and SD (standard definition) transmissions.</li> </ul>			
531 CHANNELS	CHANNELS			
FAVORITES	☐ CHANNEL SCAN - Select FAV (16 favorites) or ALL channels to scan channels using the up/down CH buttons.			
CAPTION	<ul> <li>PRESET CAPTION - Enter channel numbers for preset captions.</li> <li>MANUAL CAPTION - Enter channel numbers and captions manually.</li> <li>INPUT LABEL - Label video connections for onscreen display of optional equipment.</li> </ul>			
LOCK	LOCK			
MODE	Under Mode lock All, Channels or Game with a secret code.			
HOW LONG?	□ Under HOW LONG select the period of time (12, 24, 48 hours or ALWAYS) for your option to be locked.  Note: For more information about Motion Picture Status and TV Parental Guide, see the V-CHIP Parental Lock manual provided with the TV package.			

# Special Features

## **SET UP**

#### Menu Languages

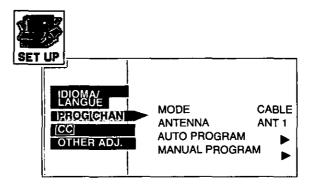
in SET UP Menu, select IDIOMA / LANGUE to change menu language to ENGLISH, ESPAÑOL (Spanish) or FRANÇAIS (French).



### 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 Caption)

This television contains a built-in decoder that displays CC (Closed Caption) 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 Closed Captioning for the feature to work.

CC	Mode
----	------

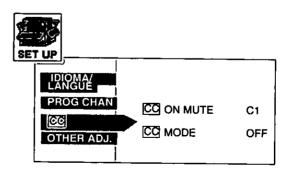
- ☐ In SET UP Menu, select CC (Closed Caption).
- ☐ Select CC MODE.
- Select OFF, C1, C2, T1, T2, C3, C4, T3 or T4:
  - OFF When Closed Caption is not desired.
  - C1 For video related information to be displayed, up to 4 lines onscreen at a time. (It does not block relevant parts of the picture). Text 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. To deactivate press the **MUTE** button again.

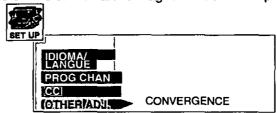
Note: This feature only functions when the Closed Caption Mode is OFF. The program being viewed must be broadcast with Closed Captioning. (Refer to your local TV guide).

- ☐ 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.



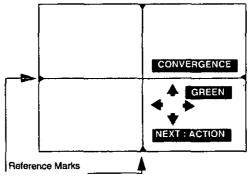
#### Convergence

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

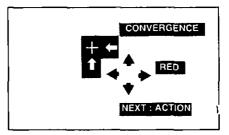


Note: Convergence seldom needs adjusting, except when moving the TV.

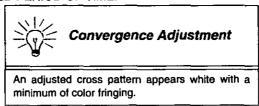
Use the navigation buttons to align the horizontal and vertical green lines on screen with the outside reference marks, as shown below. Press the **ACTION** button to move to the RED CONVERGENCE screen.



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.



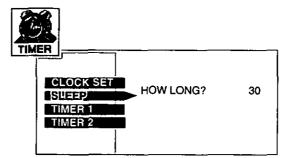
**Note:** TO PREVENT PICTURE TUBE DAMAGE, DO NOT LEAVE TEST PATTERN ON FOR AN EXTENDED PERIOD OF TIME.



#### TIMER

#### Sleep

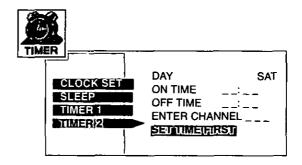
In TIMER menu, select SLEEP to turn TV off in 30, 60 or 90 minutes. Select NO to turn off timer.

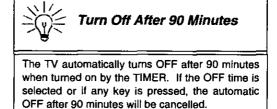


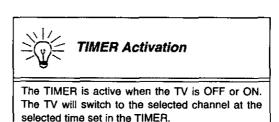
#### Timer 1 and Timer 2

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 TIMER features.





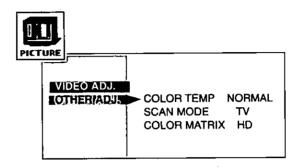


## **PICTURE**

## **Other Adjustments**

In PICTURE menu under OTHER ADJ. select:

- COLOR TEMP (temperature) to increase or decrease WARM (red) and COOL (blue) colors to suit personal preferences.
- SCAN MODE select TV or GAME to do picture adjustment when switching between video games and DTV picture, if needed.
- COLOR MATRIX select HD OR SD to automatically adjust color parameters for HD (high definition) and SD (standard definition) transmissions.



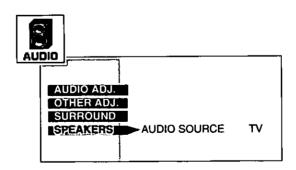
Note: COLOR MATRIX is only adjustable in DTV mode.

#### **AUDIO**

# **Speakers**

In AUDIO menu under SPEAKERS, select:

- □ AUDIO SOURCE TV for normal TV speakers.
- ☐ EXT & VAO (variable audio out) to adjust speakers from TV controls.
- EXT & FAO (fixed audio out) to adjust speakers from an external amplifier.

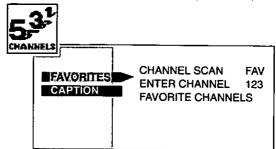


#### **CHANNELS**

#### **Favorites**

In CHANNELS menu under FAVORITES select:

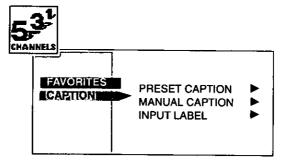
- ☐ CHANNEL SCAN FAV to enter up to 16 favorite channels
- ☐ CHANNEL SCAN ALL to scan all channels when using the CH up/down buttons.



#### Caption

In CHANNELS menu under CAPTION select:

- ☐ PRESET CAPTION to enter channel labels for popular TV stations.
- ☐ MANUAL CAPTION to enter numbers and captions manually.
- ☐ INPUT LABEL to label video input connections for onscreen display by source (VCR, DVD, etc.).



#### 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:

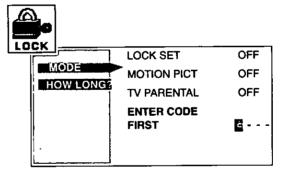
- LOCK SET to choose:
  - OFF To turn lock function off.
  - ALL To lock all channels and video inputs.
  - CHANNEL To lock up to four channels of your choice.
  - GAME To lock channels 3, 4 and video inputs.
- MOTION PICT \* To use Motion Picture Ratings.
- □ TV PARENTAL \* To use TV Parental Guide 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 **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 ACTION 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 comer of the television screen

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

<sup>\*</sup>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

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

AUDIO	VIDEO	Solutions		
AUDIO	VIDEO	Solutions		
Noisy Audio	Snowy Video	Adjust Antenna Location and Connection		
Noisy Audio	Muttiple 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	Set TV or Cable Mode Properly Check Antenna Cables		
No Audio	No Video / No Split Screen	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 that 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		
L	- Common Operation			

·		
		•

