

Color Television
TP2785C1

Instructions for use



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PHILIPS **MAGNAVOX**

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Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS MAGNAVOX warranty.

Owner Confirmation

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PHILIPS MAGNAVOX



Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome—and thanks for investing in a PHILIPS MAGNAVOX product.

Sincerely,

Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these
safety symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.


CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

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SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A.  An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 6B. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
12. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
13. **Power Lines** - An outdoor antenna should be located away from power lines.
14. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.
15. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

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

Example of Antenna Grounding as per NEC - National Electric Code

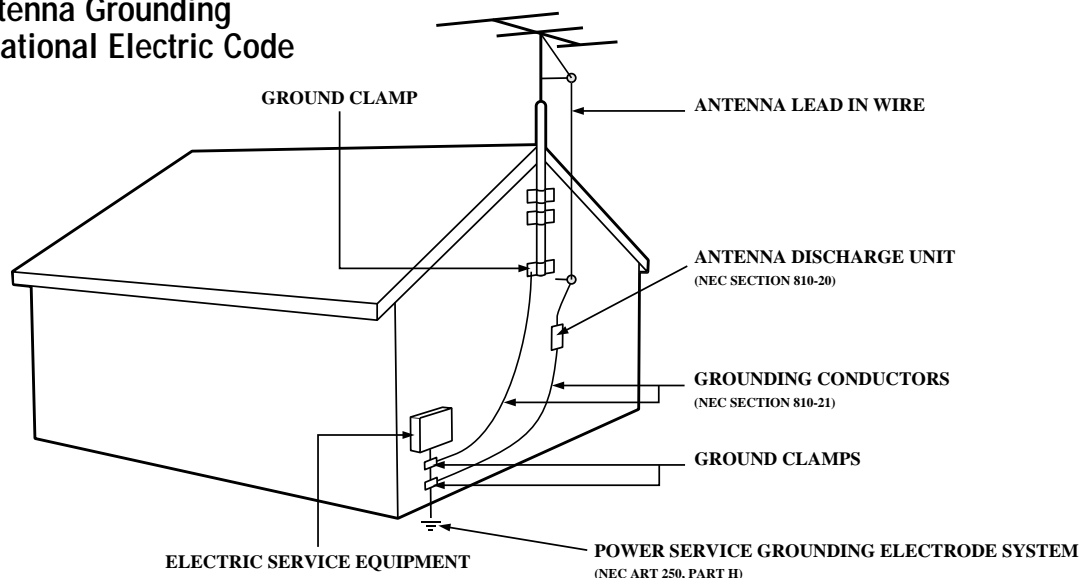


TABLE OF CONTENTS

Introduction

Welcome/Registration of Your TV	2
Safety/Precautions	3
Table of Contents	4
Features	5



Onscreen MENU

◇ Adjusting the TV Picture.....	6
◇ Activating Contrast Plus (Black Stretch)	7
◇ Activating Noise Reduction (Picture) Control ...	8
◇ Setting the TV's Clock.....	9
◇ Activating the Timer Control.....	10
◇ Activating the Start-Up Channel.....	11
◇ Setting the TV's Start Time Control.....	12
◇ Setting the TV for Closed Caption	13
◇ Using the Sleep Timer Control	14



SmartLock™

◇ Understanding the SmartLock™ Feature.....	15
◇ Setting the SmartLock Access Code.....	16
◇ Setting the SmartLock to Block Channels	17
◇ Setting the SmartLock's Blocking Options	18
◇ Blocking Using the Movie Rating Feature.....	19
◇ Blocking Using the TV Rating Feature	20
◇ Using the SmartLock Review Screen.....	21



Sound

◇ Setting the Balance, Treble and Bass Controls.....	22
◇ Setting the TV for Incredible Surround.....	22
◇ Setting the TV Volume Control	23
◇ Setting the TV for Stereo and SAP Programs ..	24
◇ Using the Input control with the Audio/Video Input Jacks	25-26
◇ Using the Audio Video Output Jacks.....	27



Remote Control Operation

Using the SmartPicture™ Control	28
Using the SmartSound™ (AVL) Control	29
Using SmartSurf™ (Alternate Channel)	30
Setting the Remote Control to Operate Accessory Devices (Code Entry)	31-32
Setting the Remote Control to operate Accessory Devices (Search Method)	33
Remote Control Direct Entry Code List	34-35
Using the Remote's VCR Buttons	36



Picture-In-Picture (PIP)

PIP Connection	37
Choosing the PIP Picture Source	38
How to Use PIP with the TV Remote	39
Adjusting the PIP Tint Controls	40
More PIP Connections.....	41-42



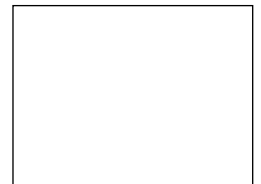
General Information

Tips if Something Isn't Working	43
Glossary of TV Terms.....	44
Index	45
Factory Service Locations.....	46-47
Warranty.....	48

SET-UP AND QUICK USE GUIDE

Use the simple Set-Up Guide (supplied with your TV information packet) for details on:

- Cable/Antenna Hook-ups
- Auto-Programming of Channels
- Channel Editing
- Basic TV and Remote Control Operation
- Tuner Settings
- External Input Naming



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FEATURES

SmartLock™ feature allows you to block the viewing of certain channel or external audio/video connections where you might not want your children viewing inappropriate material.

Infrared Remote Control works your TV set, VCR, and a variety of wireless remote control Cable Converters (Satellite Receivers, DBS, etc.).

Standard broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Stereo Ready TV with built-in audio amplifier and twin speaker system for receiving TV programs broadcast in stereo sound.

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as onscreen text.

Automatic Programming of Channels for quick and easy selection of favorite stations available in your area.

Onscreen Features (in either English, French, or Spanish) show helpful messages for setting of TV controls.

Audio/Video Jackpanel for direct connections with VCRs (or other video accessories) providing quality TV picture and sound playback.

On Timer automatically turns the TV ON at a preset time, and channel.

Sleep-Timer automatically turns the TV OFF at preset times.

SmartPicture™ allows you to change the picture settings (color, tint, contrast, etc.) for various types of programming, such as Personal, Sports, Movies, or Weak Signals, with the push of one button.

SmartSound™ controls the sudden volume changes during program changes and commercials. It eliminates the peaks and valleys in the TV's sound and creates one pleasant listening level. You also may tailor the SmartSound setting to the type of program you are watching (Music, Theatre, etc.).

Picture-In-Picture (PIP) allows you view to different programs (or picture sources) on the TV screen at the same time. PIP will also let you swap the pictures, move the PIP picture to any of the four corners, and even freeze the picture until you shut it off.

NOTE: This owner's manual content is used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television system. This is normal and does not require you contacting your dealer or requesting service.

END-OF-LIFE DISPOSAL

Your new television and its packing contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts which need to be properly disposed.

Your product also uses batteries which should not be thrown away when depleted, but should be disposed of as small chemical waste.

Please find out about the local regulations on how to dispose of your old television, batteries, and packing materials whenever you replace existing equipment.

HOW TO ADJUST THE TV PICTURE

To adjust your TV picture controls, select a channel and follow the steps shown below:

(BEGIN)

- 1 Press the **MENU** button on the remote to display the onscreen menu.
- 2 Press the **CURSOR UP** or **DOWN** buttons until the word **BRIGHTNESS** is highlighted. (Or, COLOR, PICTURE, SHARPNESS, TINT, COL. TEMP. depending on the adjustment you want to make.)
- 3 Press the **CURSOR RIGHT** or the **CURSOR LEFT** buttons to increase or decrease the brightness of the picture.



SMART HELP



BRIGHTNESS Press the **RIGHT** or **LEFT** buttons until darkest parts of the picture are as bright as you prefer.

COLOR Press the **RIGHT** or **LEFT** buttons to add or eliminate color.

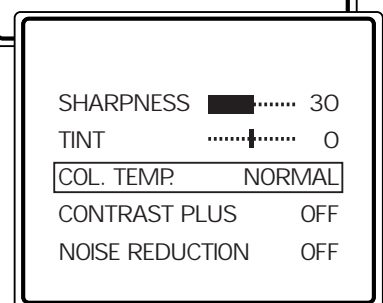
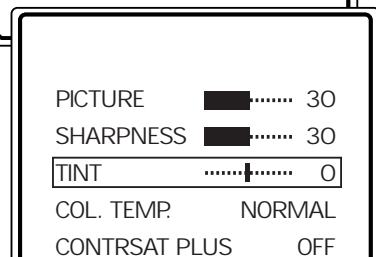
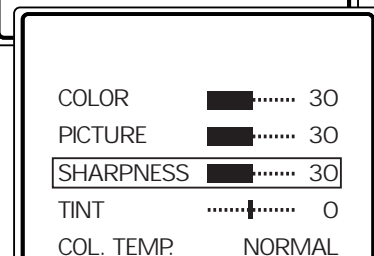
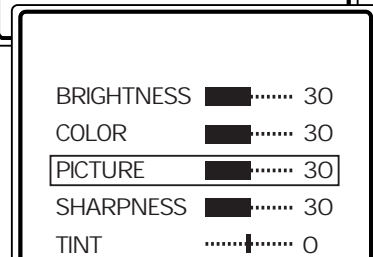
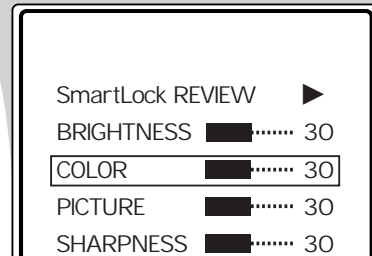
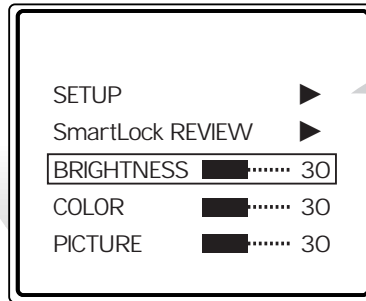
PICTURE Press the **RIGHT** or **LEFT** buttons until lightest parts of the picture show good detail.

SHARPNESS Press the **RIGHT** or **LEFT** buttons to improve detail in the picture.

TINT Press the **RIGHT** or **LEFT** buttons to obtain natural skin tones.

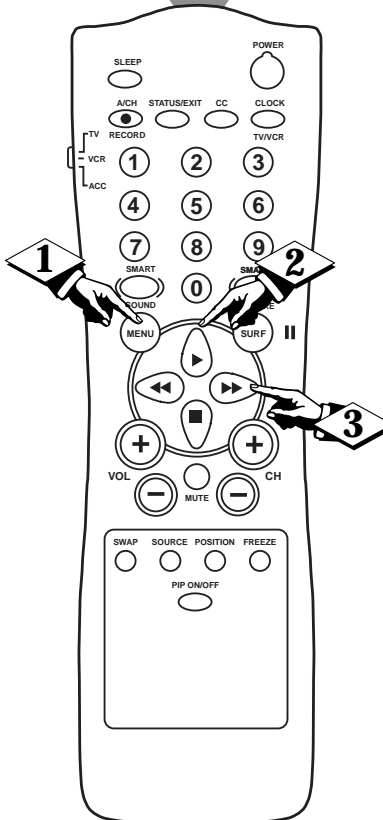
COLOR TEMP Press the **RIGHT** or **LEFT** buttons to select NORMAL, COOL, or WARM picture preferences. (NORMAL will keep the whites, white; COOL will make the whites, bluish; and WARM will make the whites, reddish.)

The onscreen menu will time out and disappear from the screen when you finish, or you can press the **STATUS/EXIT** button to clear the menu from the screen.



COL. TEMP. WARM

COL. TEMP. COOL



ACTIVATING THE CONTRAST PLUS (BLACK STRETCH) CONTROL



The Contrast Plus (Black Stretch) feature helps to “sharpen” the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.

BEGIN

1 Press the **MENU** button on the remote to display the onscreen menu.

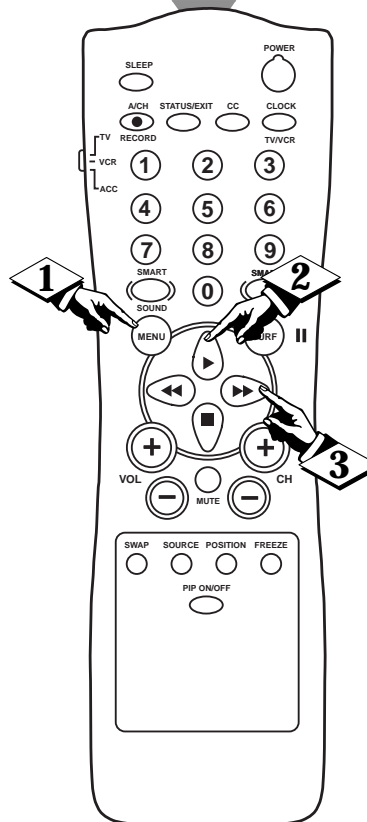
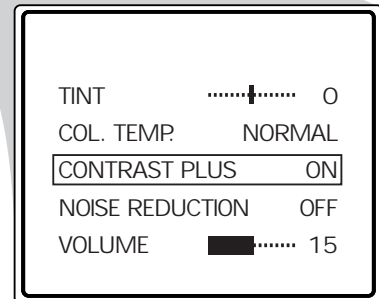
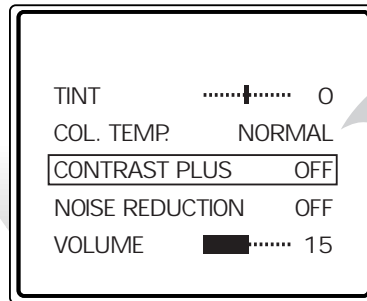
2 Press the **CURSOR UP** or **CURSOR DOWN** buttons until the words **CONTRAST PLUS** are highlighted.

3 Press the **CURSOR RIGHT** or **CURSOR LEFT** buttons to activate or deactivate the **Contrast Plus (Black Stretch)** feature.



SMART HELP





Remember: The onscreen menu will disappear in a few seconds after you have finished your adjustment.



ACTIVATING THE NOISE REDUCTION (PICTURE) CONTROL

For reasons such as poor cable reception, the picture can sometimes appear slightly "speckled" (or signal noise shown in the picture). The **NOISE REDUCTION** control can help eliminate this type of interference and improve the quality of the picture.

BEGIN

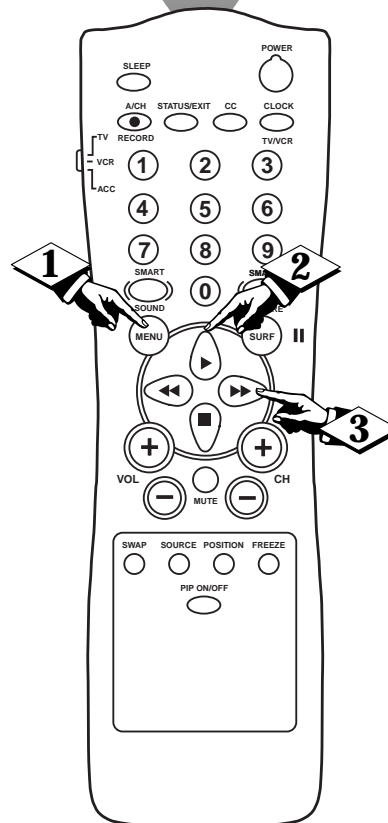
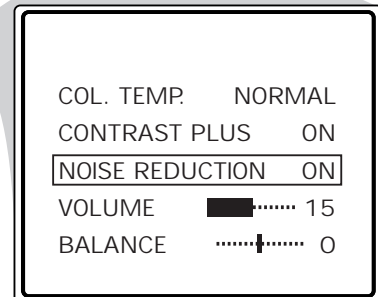
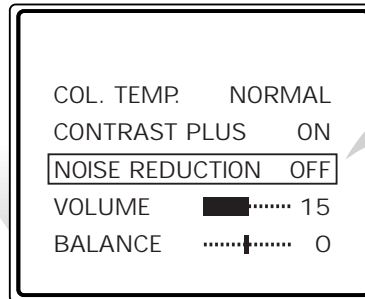
- 1 Press the **MENU** button on the remote to display the onscreen menu.
- 2 Press the **CURSOR UP**  or **CURSOR DOWN**  button until the words **NOISE REDUCTION** are highlighted.
- 3 Press the **CURSOR RIGHT**  or **CURSOR LEFT**  buttons to activate or deactivate the Noise Reduction Feature.



SMART HELP

Remember: The onscreen menu will disappear in a few seconds after you have finished your adjustment.

"Noise" Reduction is a video adjustment feature that affects the picture quality of the TV not the sound.



SETTING THE TV'S CLOCK



Your television comes with an onscreen clock. During normal operation the clock appears on the screen when the STATUS/EXIT button is pressed or when a channel change occurs.

BEGIN

- 1 Press the **CLOCK** button on the remote to display the onscreen **CLOCK** menu.
- 2 Press the **CURSOR UP** ► or **CURSOR DOWN** ■ buttons until the words **SET CLOCK** are highlighted.
- 3 Enter the current time using the **NUMBERED** buttons. If the first number is a single digit first enter a zero then the digit (i.e., press "0", then press "8").
- 4 Press the **CURSOR RIGHT** ►► or **CURSOR LEFT** ◀◀ buttons to set either **AM** or **PM** time.

Note: The **CLOCK** onscreen menu can also be accessed through the main menu by pressing the **MENU** button; then scrolling up/down with the **CURSOR UP** ► or **CURSOR DOWN** ■ buttons until the word **CLOCK** is highlighted. Press the **CURSOR RIGHT** ►► button to activate the **CLOCK** menu and follow the steps above to set the time.

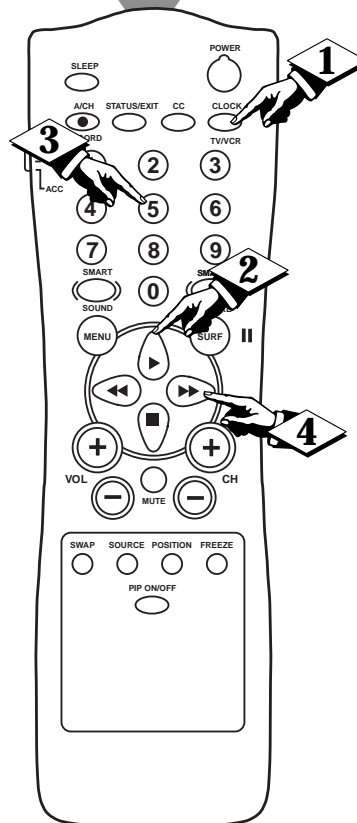
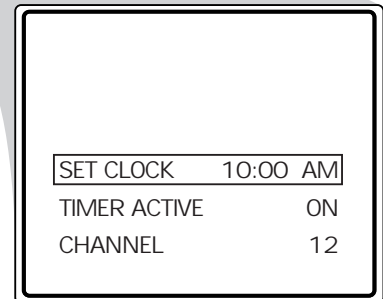
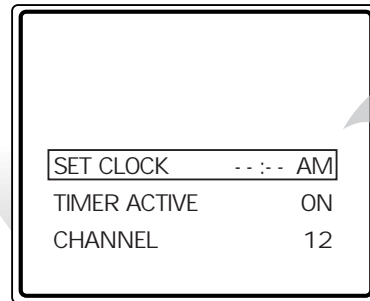


SMART HELP



Remember: Be sure to press "0" first and then the hour number for single digit entries.

To clear the onscreen menu press the **STATUS/EXIT** button, or wait a few seconds after you have finished your adjustment and the menu will automatically disappear from the screen.







Note: If a power failure occurs, the TV's **CLOCK** will have to be reset.

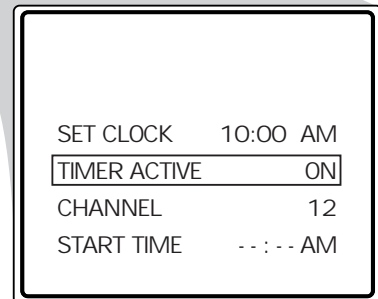
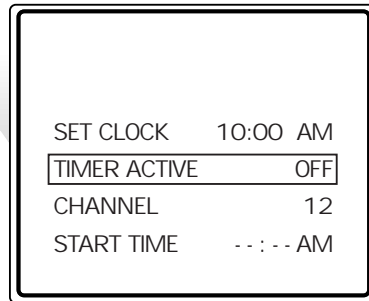
If no time is set, the time will not appear onscreen.

ACTIVATING THE TV'S ON TIMER CONTROL

Just like an alarm clock you can set the TV to turn itself on at the same time everyday.

BEGIN

- 1** Press the **CLOCK** button to display the Clock onscreen menu.
- 2** Press the **CURSOR UP**  or **CURSOR DOWN**  button until the words **TIMER ACTIVE** are highlighted.
- 3** Press the **CURSOR RIGHT**  or **CURSOR LEFT**  button to select **ON** (if activating) or **OFF** (if deactivating) the Timer control.

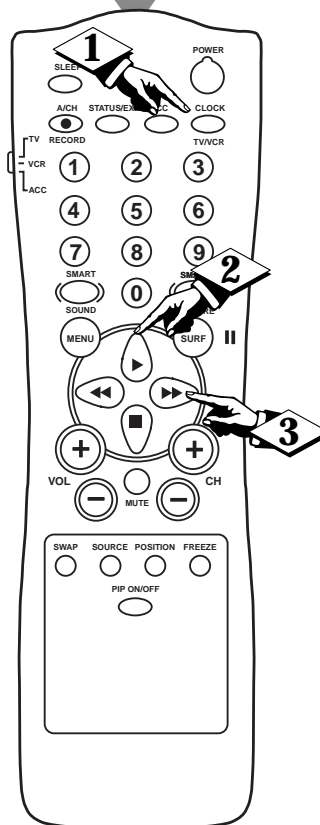


SMART HELP



Remember: Be sure to set the clock to the current time, then set the time you want the television to turn on using the **START TIME** control as described on page 12.

The onscreen menu will time out and disappear from the screen when you finish, or you can press the **STATUS/EXIT** button to clear the menu from the screen.



ACTIVATING THE START UP CHANNEL

Used along with the Clock features, you can select a specific channel that the television will tune to when the Timer Active control is turned ON.

BEGIN

- 1 Press the **CLOCK** button to display the Clock onscreen menu.
- 2 Press the **CURSOR UP** ► or **CURSOR DOWN** ■ button until the word **CHANNEL** is highlighted.
- 3 Press the **number buttons** to enter the start up channel you would like the television to start on.

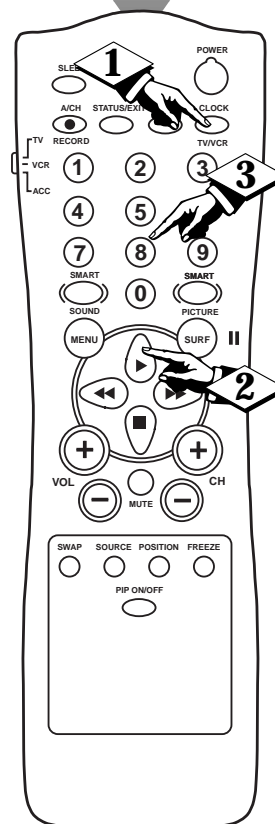
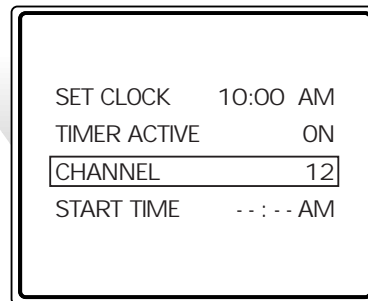
STOP

SMART HELP



Remember: Be sure to set the Timer Active control to ON.

The onscreen menu will time out and disappear from the screen when you finish, or you can press the STATUS/EXIT button to clear the menu from the screen.



SETTING THE TV'S START UP TIME

Used along with the Clock feature, you can select a specific time the television will turn on when the Timer Active control is turned ON.

BEGIN

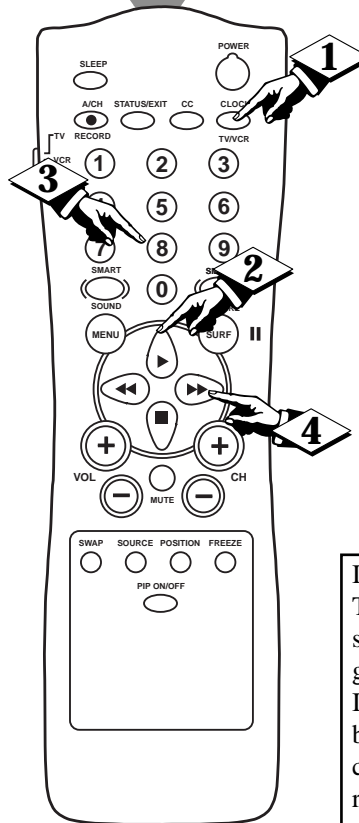
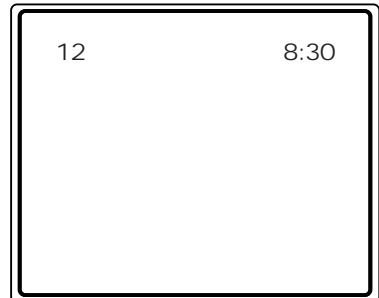
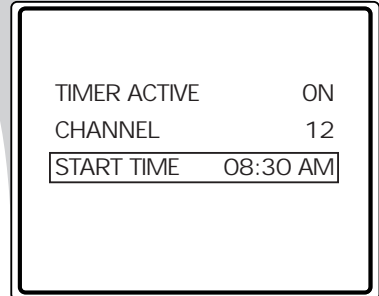
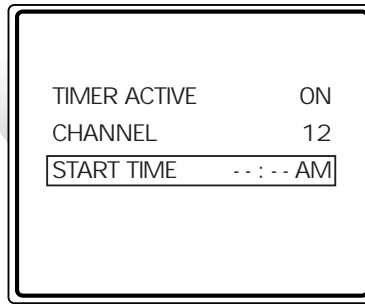
- 1 Press the **CLOCK** button to display the Clock onscreen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** button until the words **START TIME** are highlighted.
- 3 Enter the time to turn on the TV using the **NUMBERED** buttons. If the first number is a single digit first enter a zero then the digit (i.e., press "0", then press "8").
- 4 Press the **CURSOR RIGHT** or **CURSOR LEFT** buttons to set either AM or PM time.

STOP

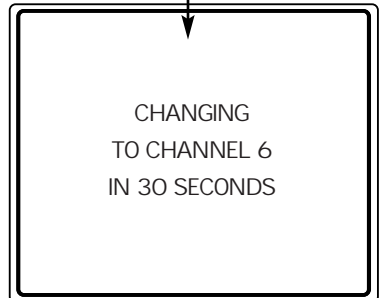
SMART HELP



Remember: Be sure to set the Timer Active to ON.



If the TV is in use when the **START TIME** control is about to be activated, the screen will display a warning stating it's going to change channels in 30 seconds. It will appear like the screen shown below and change to the selected start up channel. Pressing any button on the remote within this count down will cancel the change.



USING THE CLOSED CAPTION CONTROL

Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.

BEGIN

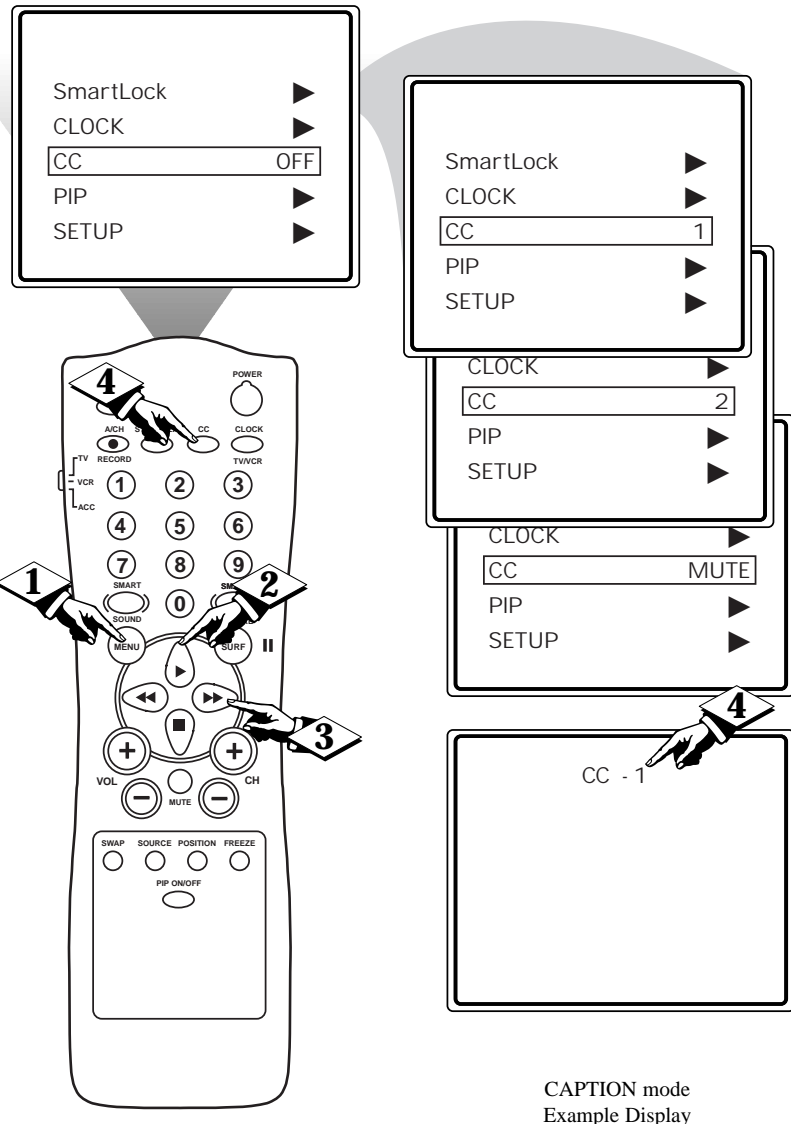
- 1 Press the **MENU** button on the remote to display the onscreen menu.
- 2 Press the **CURSOR UP** ► or **CURSOR DOWN** ■ button until the word **CC** (Closed Caption) is highlighted.
- 3 Press the **CURSOR RIGHT** ►► button to select the **CLOSED CAPTION** option you want (**OFF**, **1**, **2**, or **MUTE**). Dialogue (and descriptions) for the action on the captioned TV program will appear onscreen.
- 4 **NOTE:** You can also set the Closed Caption by **pressing the CC button** on the remote. When pressed repeatedly the screen will display the options: **CC-OFF**, **CC-1**, **CC-2**, or **CC-MUTE**.



SMART HELP

Remember: The onscreen menu will time out and disappear from the screen when you finish, or you can press the **STATUS/EXIT** button to clear the menu from the screen.

NOTE: Not all TV programs and product commercials are made for broadcast with Closed Caption (CC) information included. Neither are all Closed Caption modes (CC-1, or CC-2) necessarily being used by a broadcast station during the transmission of a closed caption program. Refer to your area's TV program listings for the stations and times of Closed Caption shows.



CAPTION mode
Example Display



NOTE: The **CC-MUTE** option can be used to set the TV to turn the Closed Caption mode "ON" whenever the **MUTE** button on the remote is pressed. This activates the **CC-1** option. **MUTE** will appear smaller in the upper center of the screen.

USING THE SLEEP TIMER CONTROL

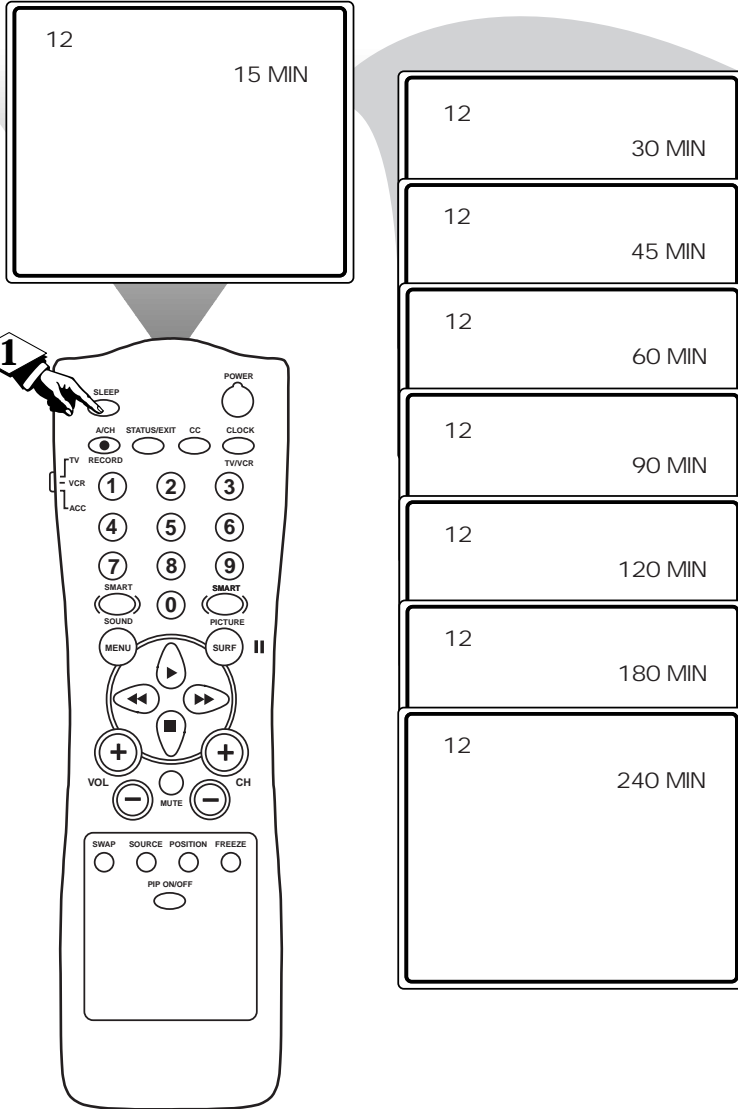
Have you ever fallen asleep in front of the TV only to have it wake you up at two in the morning with a test pattern screeching in your ears? Well, your TV can save you all that trouble by automatically turning itself off.

BEGIN

1 Press the **SLEEP** button on the remote control and the SLEEP timer will appear on the screen.

2 Press the **SLEEP** button repeatedly to pick the amount of time (in 15 minute increments up to 60 minutes; then 30 minute increments up to 120; then 60 minute increments up to 240) before the TV will turn itself off.

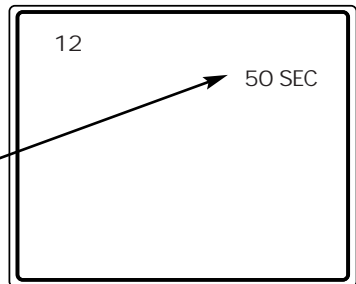
An onscreen count down will appear during the last minute before the TV shuts itself off.



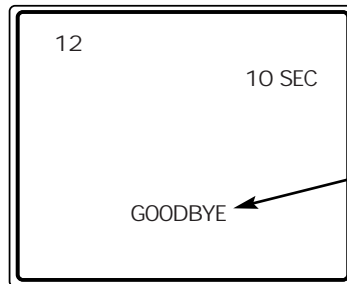
SMART HELP

Remember: The SLEEP-TIMER control can also be set within the TV's main menu

The onscreen menu will time out and disappear from the screen when you finish, or you can press the STATUS/EXIT button to clear the menu from the screen.



During the last minute of a SLEEP timer setting, an onscreen count down will be displayed. Pressing any button on the remote during this count down will cancel the SLEEP timer setting.



During the last 10 seconds of a SLEEP timer setting, an onscreen display will read GOOD BYE.



The SmartLock feature is an integrated circuit that receives and processes data sent by broadcasters, or other program providers, that contain program content advisories. When programmed by the viewer, a TV with SmartLock can respond to the content advisories and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of viewing children may watch.

Over the next few pages you'll learn how to block channels and certain rated programming. Below is a brief explanation of some terms and ratings you will find in the SmartLock feature.

SmartLock offers various BLOCKING OPTION controls from which to choose:

MASTER DISABLE: This is what might be called the "master switch" for SmartLock. When in the ON position, ALL blocking/censoring is turned off (or disabled). When in the OFF position, ALL blocking based on specifically blocked settings will take place.

BLOCK UNRATED: ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to ON and the MASTER DISABLE feature is set to OFF.

BLOCK NO RATINGS: ALL programming with NO content advisory data can be blocked if this feature is set to ON and the MASTER DISABLE feature is set to OFF.

After an access code has been programmed, you can block up to 5 individual channels. But more than just blocking channels, certain blocking options exist which will block programming based on ratings patterned by the Motion Pictures Association of America and TV broadcasters. (See description of ratings on this page.)

G	OFF
PG	OFF
PG-13	OFF
R	ON
NC-17	ON
X	ON

TV-Y	OFF
TV-Y7	▶
TV-G	OFF
TV-PG	▶
TV-14	▶
TV-MA	▶

MOVIE RATINGS

(MOTION PICTURE ASSOCIATION OF AMERICA)

G: General Audience - All ages admitted. Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

PG: Parental Guidance Suggested - This programming contains material that parents may find unsuitable for younger children.) It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.

PG-13: Parents Strongly Cautioned - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.

R: Restricted - This is programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian. It contains one or more of the following: intense violence, intense sexual situations, strong coarse language, or intensely suggestive dialogue.

NC-17: No one under the age of 17 will be admitted. - This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude indecent language.

X: Adults Only - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

TV PARENTAL GUIDELINES (TV BROADCASTERS)

TV-Y (All children -- This program is designed to be appropriate for all children.) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV-Y7 (Directed to Older Children -- This program is designed for children age 7 and above.) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV-G (General Audience -- Most parents would find this program suitable for all ages.) This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

TV-PG (Parental Guidance Suggested -- This program contains material that parents may find unsuitable for younger children.) This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

TV-14 (Parents Strongly Cautioned -- This program contains some material that many parents would find unsuitable for children under 14 years of age.) This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

TV-MA (Mature Audience Only -- This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).



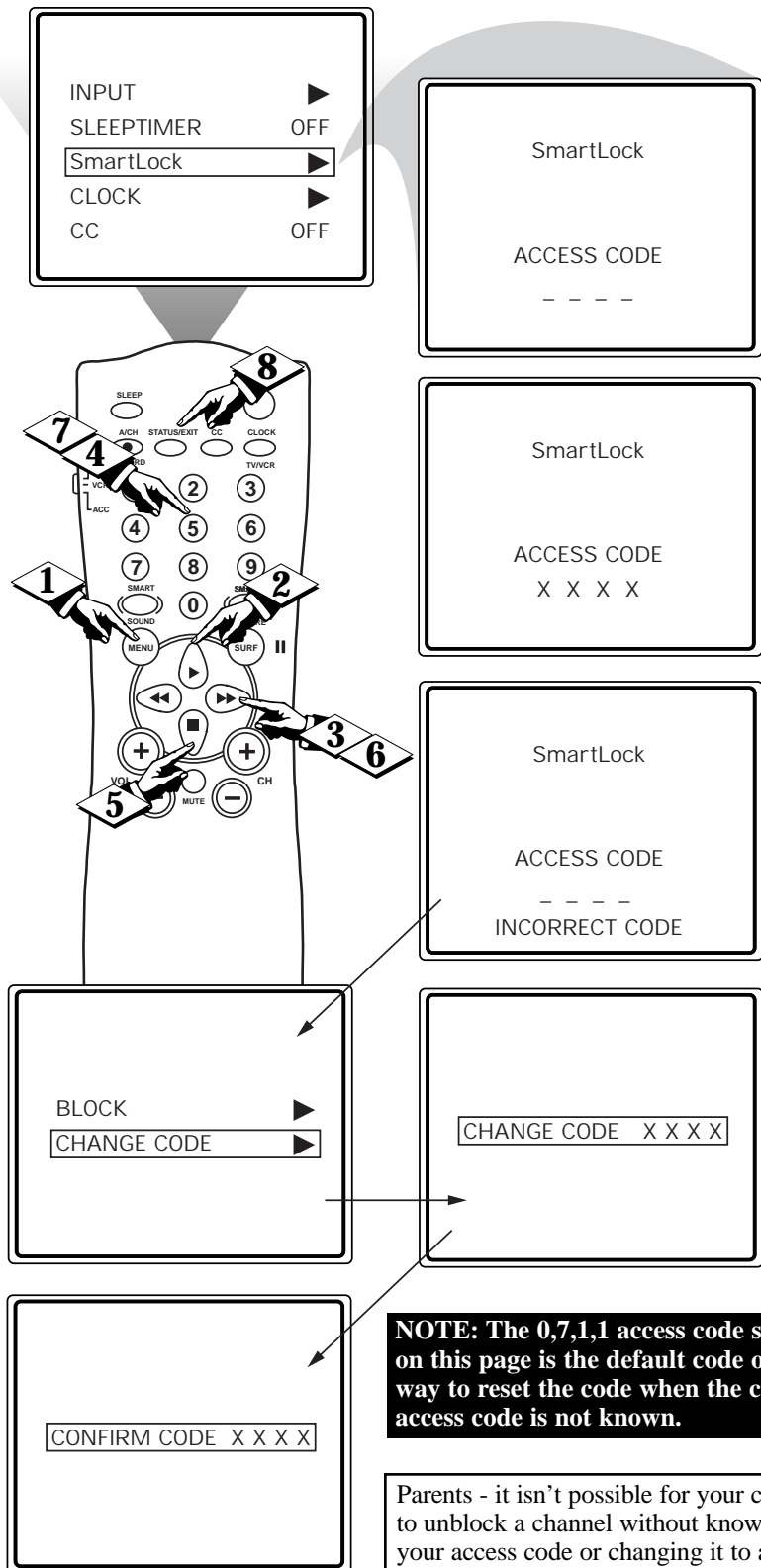
UNDERSTANDING THE SMARTLOCK™ CONTROL (ACCESS CODE)

Over the next few pages you'll learn how to block channels and get a better understanding of the rating terms for certain programming.

First, let's start by learning how to set a personal access code:

BEGIN

- 1 Press the **MENU** button on the remote to display the onscreen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** buttons until the words **SmartLock** are highlighted.
- 3 Press the **CURSOR RIGHT** button to display the SmartLock Access Code screen.
- 4 Using the **NUMBERED** buttons, enter **0, 7, 1, 1**. "XXXX" appears on the Access Code screen as you press the numbered buttons. "INCORRECT CODE" will appear on the screen, and you will need to enter **0, 7, 1, 1** again.
- 5 Press the **CURSOR DOWN** button until the words **CHANGE CODE** are highlighted.
- 6 Press the **CURSOR RIGHT** button to change your personal Access Code.
- 7 "Next enter a "new" 4 digit code using the **NUMBERED** buttons. The screen will then ask you to confirm the code you just entered. Enter your new code again. "XXXX" will appear when you enter your new code.
- 8 Press the **STATUS/EXIT** button after the new code has been entered to set the code in the TV's memory.



NOTE: The 0,7,1,1 access code shown on this page is the default code or a way to reset the code when the current access code is not known.

Parents - it isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code changes, and you didn't change it, then you know it's been altered by someone else and blocked channels have been viewed.

UNDERSTANDING THE SMARTLOCK™ CONTROL (BLOCK CHANNEL)



After your personal access code has been set (see previous page), you are now ready to select the channels you want to block out or censor.

BEGIN

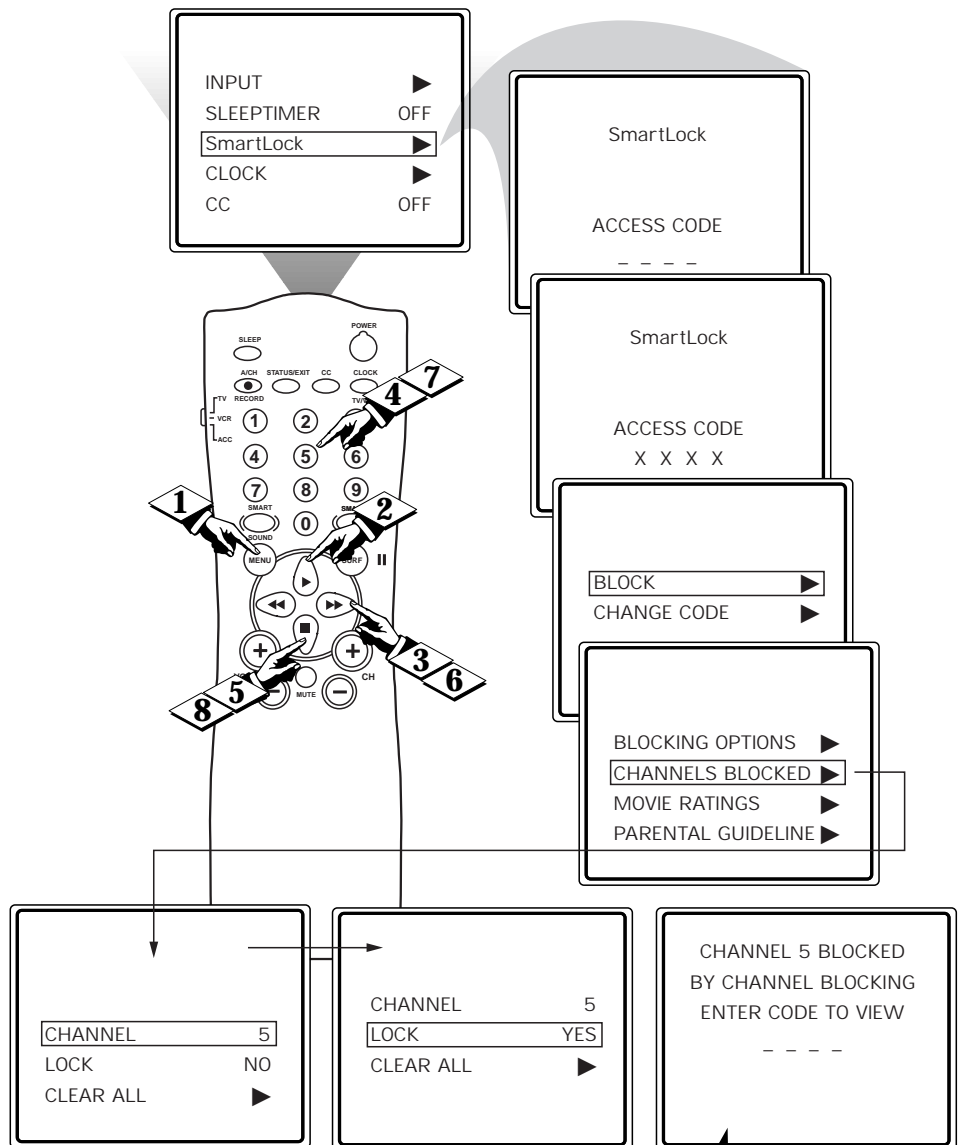
- 1 Press the **MENU** button on the remote to show the onscreen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** button until the words **SmartLock** are highlighted.
- 3 Press the **CURSOR RIGHT** button to display the SmartLock Access screen.
- 4 Enter the correct access code number. "XXXX" shows on the Access Code display as you press the **NUMBERED** buttons.
- 5 Press the **CURSOR UP** or **DOWN** buttons until the word **BLOCK** is highlighted. Press the **CURSOR RIGHT** button then highlight **CHANNELS BLOCKED**.
- 6 Press the **CURSOR RIGHT** button. Three options will be displayed: **CHANNEL**, **LOCK** or **CLEAR ALL**.
- 7 With **CHANNEL** highlighted, use the **NUMBERED** buttons to enter the channel number you wish to block.
- 8 Use the **CURSOR DOWN** button to highlight the word **LOCK**, then press the **CURSOR RIGHT** button to select **YES** (block) or **NO** (do not block). The channel chosen is now blocked from viewing.

Repeat steps 7 and 8 for any other channels you wish to block from viewing.

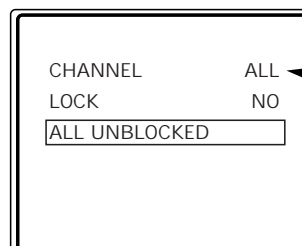
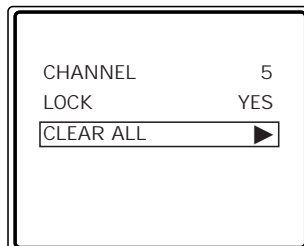
To clear blocked channels follow the steps below:

Press the **CURSOR DOWN** button until the words **CLEAR ALL** are highlighted, then press the **CURSOR RIGHT** button.

The screen will read "ALL UNBLOCKED" for a moment. At this point ALL the previously blocked channels will be unblocked.



When a blocked channel is viewed, this is what the screen will display. To view the blocked channel, simply enter the current access code. Note: Once the access code is entered ALL blocked channels will be viewable until the TV is powered off. Once the set is turned off and then back on the previously blocked channels will again be blocked.



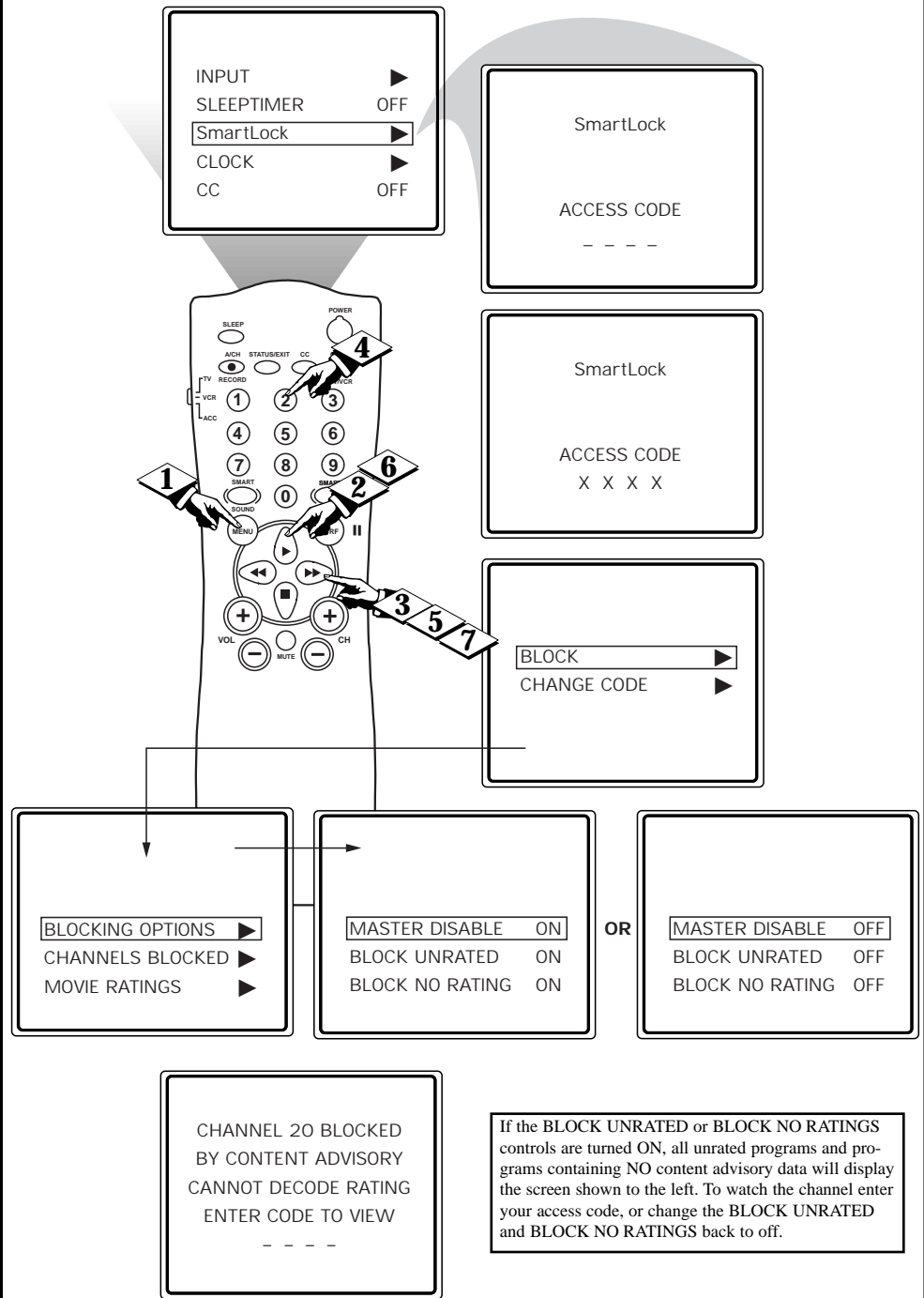
Note: When the **CLEAR ALL** option is selected, the **CHANNEL ALL** option will display **ALL**. If at this point if you change the **LOCK** option to **YES**, **ALL** channels will be blocked from viewing.

UNDERSTANDING THE SMARTLOCK™ CONTROL (BLOCKING OPTIONS)

SmartLock offers the viewer other blocking features as well. With these Blocking Option features, the censoring can be turned ON or OFF.

BEGIN

- 1 Press the **MENU** button on the remote to display the onscreen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** buttons until the words **SMART LOCK** are highlighted.
- 3 Press the **CURSOR RIGHT** button to display the SmartLock Access Code screen.
- 4 Using the **NUMBERED** buttons on the remote, enter your personal Access Code.
- 5 With the word **BLOCK** highlighted, Press the **CURSOR RIGHT** button.
- 6 Scroll the menu using the **CURSOR UP** or **CURSOR DOWN** buttons until the words **BLOCKING OPTIONS** are highlighted.
- 7 Press the **CURSOR RIGHT** button to display the **Blocking Options (MASTER DISABLE, BLOCK UNRATED, or BLOCK NO RATING)**. When highlighted, each feature can be turned **ON** or **OFF** using the **CURSOR RIGHT** or **CURSOR LEFT** buttons on the remote.



BLOCKING OPTIONS:

MASTER DISABLE: This is what might be called the “master switch” for SmartLock. When in the ON position, ALL blocking/censoring is turned off (or disabled). When in the OFF position, ALL blocking based on specifically blocked settings will take place.

BLOCK UNRATED: ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to ON and the MASTER DISABLE feature is set to OFF.

BLOCK NO RATINGS: ALL programming with NO content advisory data can be blocked if this feature is set to ON and the MASTER DISABLE feature is set to OFF.

If the **BLOCK UNRATED** or **BLOCK NO RATINGS** controls are turned ON, all unrated programs and programs containing NO content advisory data will display the screen shown to the left. To watch the channel enter your access code, or change the **BLOCK UNRATED** and **BLOCK NO RATINGS** back to off.

UNDERSTANDING THE SMARTLOCK™ CONTROL (MOVIE RATINGS)



SMART HELP



Remember:
Selecting to block any rating will cause all the higher ratings to also be blocked automatically.

There are two types of program ratings within the SmartLock feature. One is based on the Movie Industry ratings while the other is based on the TV Industry ratings. Both can be used to block or censor programming that has been rated in either manner.

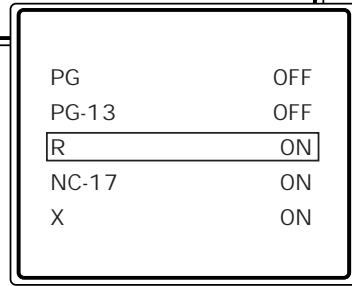
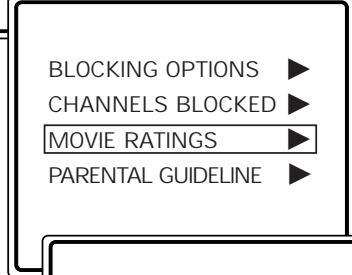
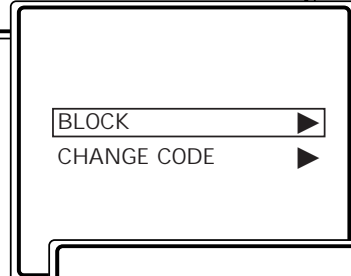
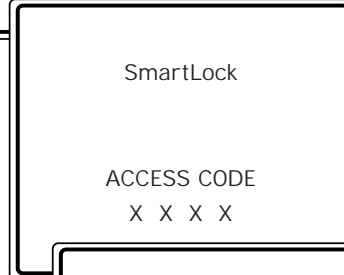
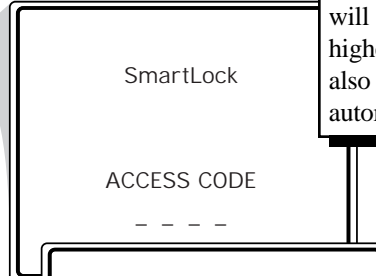
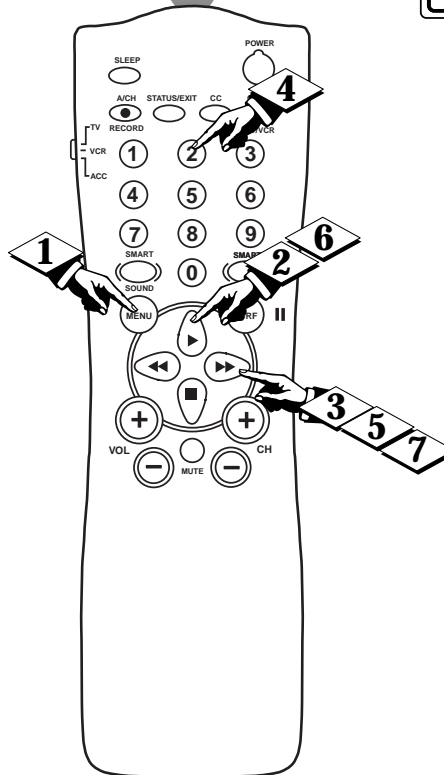
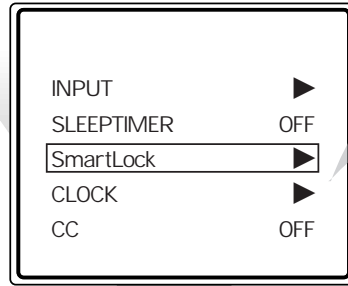
Let's first look at the Movie Rating options of SmartLock:

BEGIN

- 1 Press the **MENU** button on the remote to display the onscreen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** buttons until the words **SMART LOCK** are highlighted.
- 3 Press the **CURSOR RIGHT** button to display the SmartLock Access Code screen.
- 4 Using the **NUMBERED** buttons on the remote, enter your Personal Access Code.
- 5 With the word **BLOCK** highlighted, Press the **CURSOR RIGHT** button.
- 6 Scroll the menu using the **CURSOR UP** or **CURSOR DOWN** buttons until the words **MOVIE RATINGS** are highlighted.
- 7 Press the **CURSOR RIGHT** button to display the **MOVIE RATINGS** (G, PG, PG-13, R, NC17, or X).

When highlighted, all these options can be turned **ON** (which will allow blocking) or **OFF** (which will allow viewing).

Use the **CURSOR RIGHT** or **CURSOR LEFT** buttons on the remote to turn the rating option ON or OFF.



NOTE: When a rating is turned ON, all higher ratings will automatically be turned ON. To turn them OFF, each will have to be set individually. (i.e., R blocked manually, NC-17 and X will be blocked automatically.)



Screen will display a message when programming is blocked by the Movie Rating feature. To unblock, turn the Movie Rating OFF, or enter your personal access code. Entering the code will unblock ALL blocked Movie Ratings until the TV is turn off. Then the blocked ratings will be reset to ON.

UNDERSTANDING THE SMARTLOCK™ CONTROL (PARENTAL GUIDELINES)

This portion of the SmartLock features cover program ratings based on the TV Industry rating system. This is known as Parental Guideline within SmartLock.

After selecting the SmartLock feature and entering your personal access code, the BLOCK/CHANGE CODE screen appears;

BEGIN

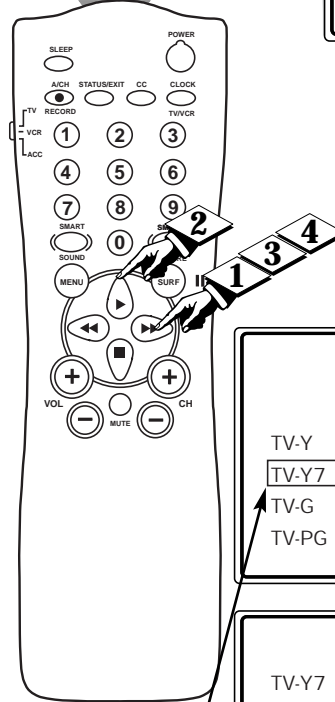
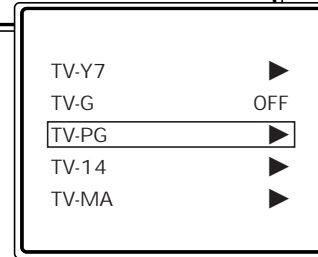
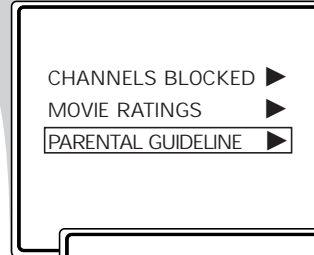
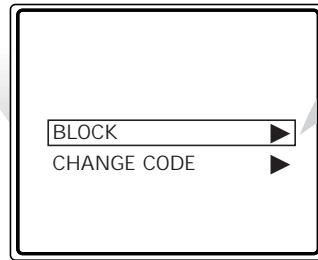
- 1 With the word **BLOCK** highlighted, Press the **CURSOR RIGHT** button.
 - 2 Scroll the menu using the **CURSOR UP** or **CURSOR DOWN** buttons until the words **PARENTAL GUIDELINES** are highlighted.
 - 3 Press the **CURSOR RIGHT** button to display the Parental (TV) Guidelines (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA).
- When highlighted, the TV-Y and TV-G can be turned **ON** (which will allow blocking) or **OFF** (which will allow viewing), of these rated programs.
- 4 The ratings of TV-Y7, TV-PG, TV-14, TV-MA can be customized to block V (violence), FV (fantasy violence), S (sexual situations), L (coarse language), or D (suggestive dialogue).
- Use the **CURSOR RIGHT** or **CURSOR LEFT** buttons on the remote to turn the rating option ON or OFF.



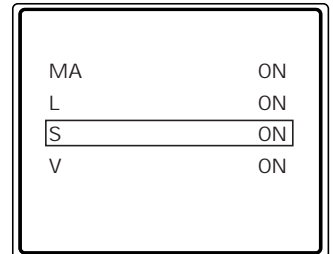
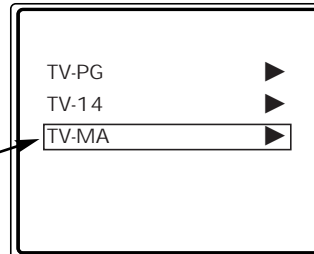
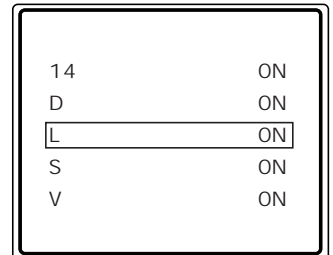
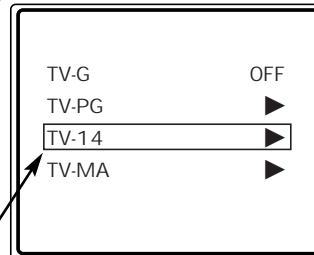
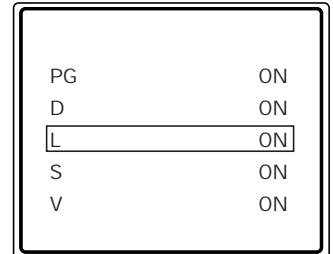
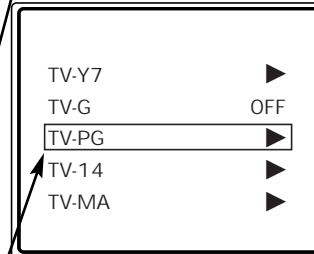
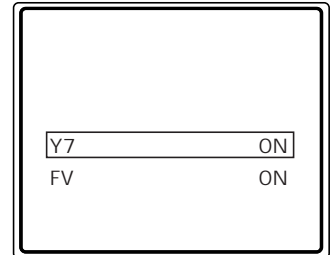
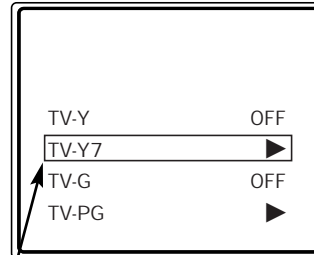
SMART HELP



Remember: Selecting to block any rating will cause all the higher ratings to also be blocked automatically.



TV RATING SUB MENUS:



TV-Y - (All children -- This program is designed to be appropriate for all children.) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV-Y7 - (Directed to Older Children -- This program is designed for children age 7 and above.) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV-G - (General Audience -- Most parents would find this program suitable for all ages.) This type of programming contains little or no violence, no strong language and little or no sexual dialogue or situations.

TV-PG - (Parental Guidance Suggested -- This program contains material that parents may find unsuitable for younger children.) This type of programming contains one or more of the following: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

TV-14 - (Parents Strongly Cautioned -- This program contains some material that many parents would find unsuitable for children under 14 years of age.) This type of programming contains one or more of the following: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).

TV-MA - (Mature Audience Only -- This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) This type of programming contains one or more of the following: crude indecent language (L), explicit sexual situations (S), or graphic violence (V).

UNDERSTANDING THE SMARTLOCK™ CONTROL (REVIEW SCREEN)



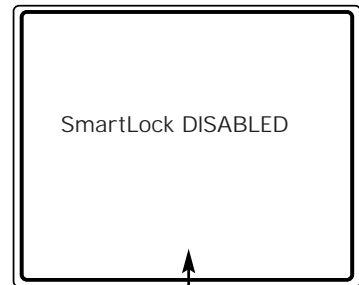
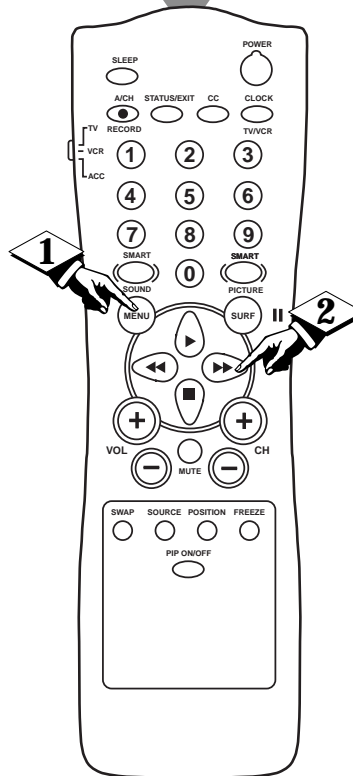
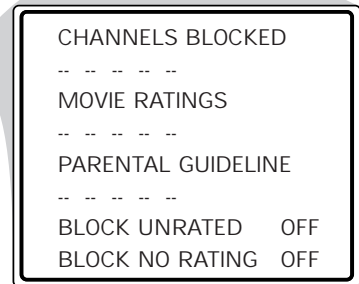
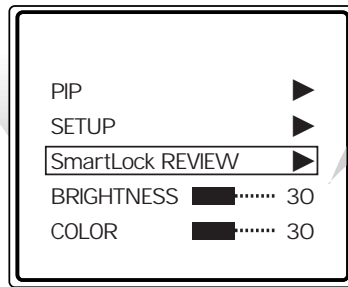
Now that you've learn how to block channels or censor your viewing using the Movie Ratings or Parental (TV) Guidelines let's review what you've done. The SmartLock Review feature allows you to see what has been blocked. Whenever the Menu button is pressed the onscreen menu will be displayed with the SmartLock Review highlighted.

(BEGIN)

1 Press the **MENU** button on the remote to show the onscreen menu. **SmartLock REVIEW** will be highlighted.

2 Press the **CURSOR RIGHT** button and the SmartLock Review Menu will appear.

This menu will display what channels have been blocked; what Movie Ratings have been blocked; what Parental (TV Ratings) Guideline have been blocked. This review screen will also display that status of Unrated and No Rating settings. If the Master Disable feature has been turned ON, the SmartLock Review screen will display "SmartLock DISABLED."



SmartLock DISABLED will appear in the SmartLock Review screen if the SmartLock Disable feature is set to ON.

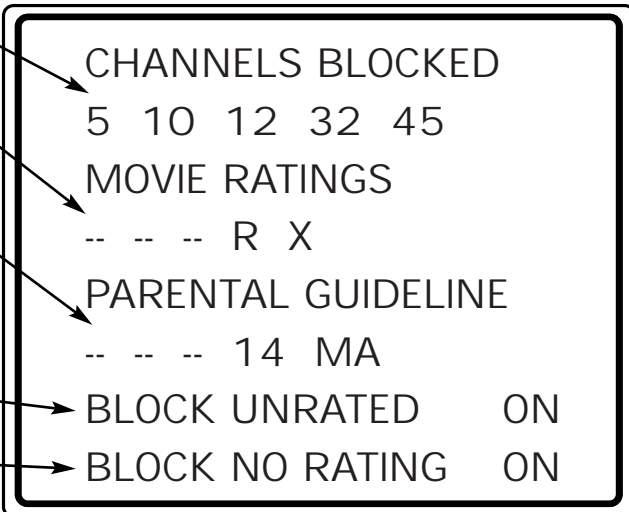
CHANNELS BLOCKED - Shows all blocked channels that were set within the CHANNELS BLOCKED feature. Up to 5 channels may be blocked at one time.

MOVIE RATINGS - Shows all blocked Movie Ratings that were set within the MOVIE RATINGS feature. All or some may be blocked at one time. Note: If a lower rating is blocked; this will automatically cause the higher ratings to be blocked also. (i.e., if R is set to be blocked, X will automatically be blocked also.)

PARENTAL GUIDELINE - Shows all blocked TV Ratings that were set within the PARENTAL GUIDELINES feature. All or some may be blocked at one time. Note: If a lower rating is blocked; this will automatically cause the higher ratings to be blocked also. (i.e., if TV-14 is set to be blocked, TV-MA will automatically be blocked.) Parental Guidelines also have sub ratings for Violence (V), Fantasy Violence (FV), Sexual Situations (S), Coarse Language (L), and Suggestive Language (D). If the main rating is turned off but the sub rating is turned ON, the program will be blocked but the rating will not appear within the SmartLock Review menu.

BLOCK UNRATED - Shows ON or OFF depending on the status of the BLOCK UNRATED feature. Based on the Movie Ratings or Parental (TV) Guidelines.

BLOCK NO RATING - Shows ON or OFF depending on the status of the BLOCK NO RATING feature. Based on programming with NO content advisory data.





USING THE TREBLE, BASS AND BALANCE CONTROLS

Besides the normal volume level control, your TV also has **BALANCE**, **BASS** and **TREBLE** controls for sound adjustments. The **BALANCE** control allows the listener to adjust the sound being heard between the right and left TV speakers. The controls work just like the **BASS**, **TREBLE** and **BALANCE** controls on any hi-fi stereo audio system.

BEGIN

- 1 Press the **MENU** button on the remote to show the onscreen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** buttons to select and highlight the name of the control you wish to change (**BALANCE**, **BASS** or **TREBLE**).
- 3 Use the **CURSOR LEFT** or **CURSOR RIGHT** buttons to adjust the levels of each highlighted control.



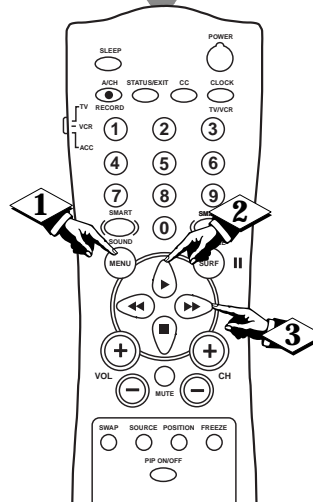
NOISE REDUCTION	ON
VOLUME	█..... 15
BALANCE	.....|..... 0
TREBLE	█..... 30
BASS	█..... 30

OR

VOLUME	█..... 15
BALANCE	.....|..... 0
TREBLE	█..... 30
BASS	█..... 30
INCREDIBLE SURR	ON

OR

BALANCE	.....|..... 0
TREBLE	█..... 30
BASS	█..... 30
INCREDIBLE SURR	ON
SOUND	STEREO



USING THE INCREDIBLE SURROUND FEATURE

The **Incredible Surround** feature adds greater depth and dimension to both monaural (**MONO**) and stereo TV sound. With the control turned **ON** the TV's speakers can add even wider sound separation to normal broadcasts.

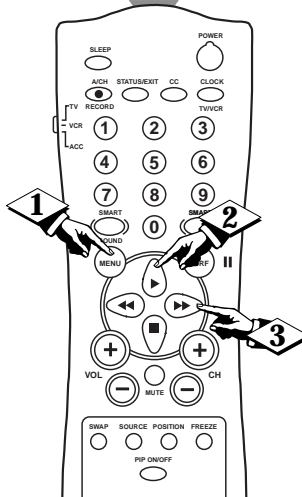
BEGIN

- 1 Press the **MENU** button on the remote to display the onscreen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** button until the words **INCREDIBLE SURR** are highlighted.
- 3 Press the **CURSOR RIGHT** or the **CURSOR LEFT** buttons to turn the Incredible Surround control **ON** or **OFF**.



TREBLE	█..... 30
BASS	█..... 30
INCREDIBLE SURR	OFF
SOUND	STEREO
SAP	OFF

TREBLE	█..... 30
BASS	█..... 30
INCREDIBLE SURR	ON
SOUND	STEREO
SAP	OFF



SMART HELP



Remember: The onscreen menu will time out and disappear from the screen when you finish, or you can press the **STATUS/EXIT** button to clear the menu from the screen.

USING THE TV VOLUME BAR CONTROL

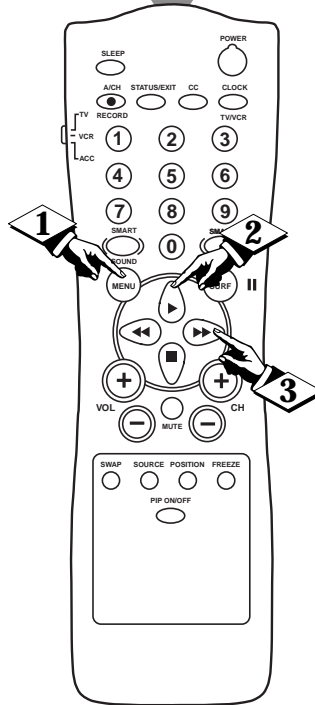
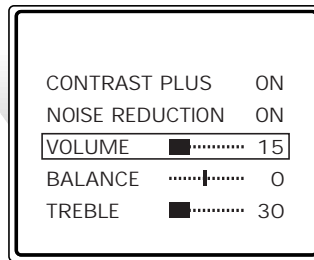


Use the Volume Bar control to see the TV's volume level settings on the TV screen. The Volume Bar will be seen each time the VOLUME buttons (on the TV or remote) are pressed.

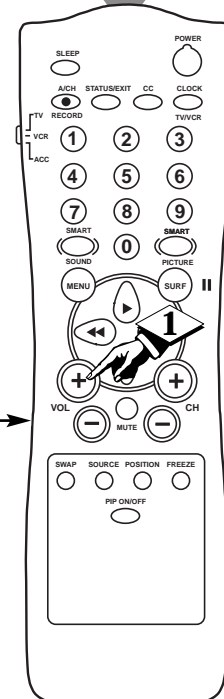
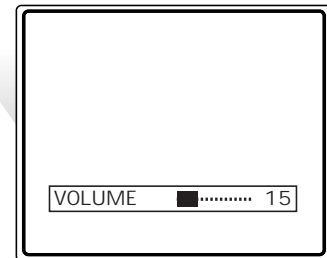
BEGIN

- 1 Press the **MENU** button to display the onscreen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** buttons until the word **VOLUME** is highlighted.
- 3 Press the **CURSOR RIGHT** button to increase the TV's volume or the **CURSOR LEFT** button to decrease the sound.

STOP



OR



Note: Pressing the VOL (+) or (-) buttons will also allow you to adjust the sound level of the TV. A Volume Bar adjustment will appear onscreen. Press the (+) to increase the volume and the (-) button to decrease the volume.



HOW TO SET THE TV FOR STEREO PROGRAMS

Your TV can detect a stereo signal and will set itself automatically so the stereo sound can be heard. However, there may be occasions when you might want to set the TV to mono. The following steps describe how to change the **SOUND** control:

BEGIN

- 1 Press the **MENU** button on the remote to show the onscreen menu.
- 2 Press the **CURSOR UP** or **CURSOR DOWN** button until the word **SOUND** is highlighted.
- 3 Press the **CURSOR RIGHT** or **CURSOR LEFT** buttons to choose between **STEREO** or **MONO**.

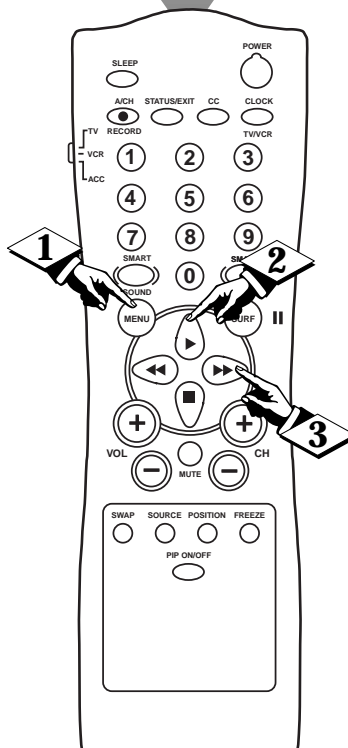
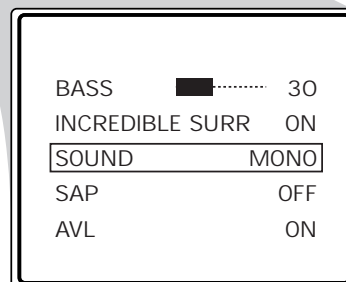
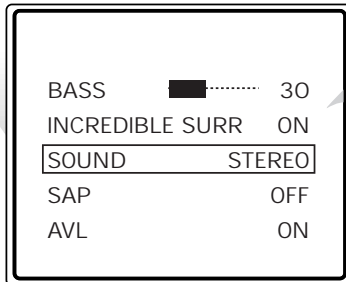
With **STEREO** selected, the television will reproduce any stereo broadcast signal it receives. Please note that you can force a stereo broadcast signal to **MONO**, but you cannot force a mono broadcast signal to stereo.



SECOND AUDIO PROGRAM (SAP)

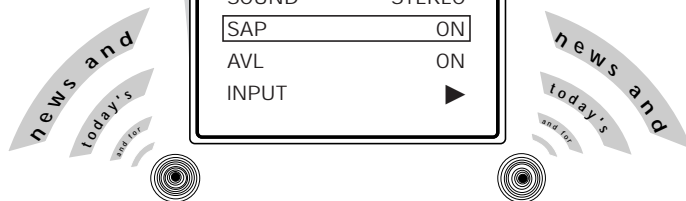
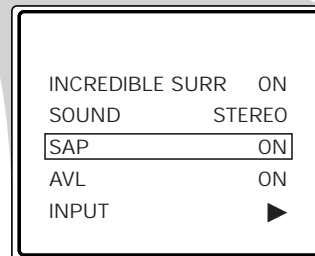
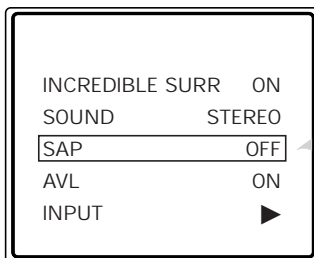
SAP is an additional part of the stereo broadcast system. Sent as a third audio channel SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes, but many experts believe it will be used for foreign language translations of TV shows (or for weather and news bulletins.)

If a SAP signal is not present with a selected program, the SAP option cannot be selected. Also, if SAP is selected on a channel (with SAP) and you select another channel, when you return to the original channel SAP will be **OFF** (and you will have to reselect the SAP feature.)



SMART HELP

Remember: If stereo is not present on a selected show, the TV cannot be placed in the **STEREO** mode. The sound coming from the set will remain monaural (mono).



HOW TO USE THE INPUT CONTROL (A/V INPUTS)



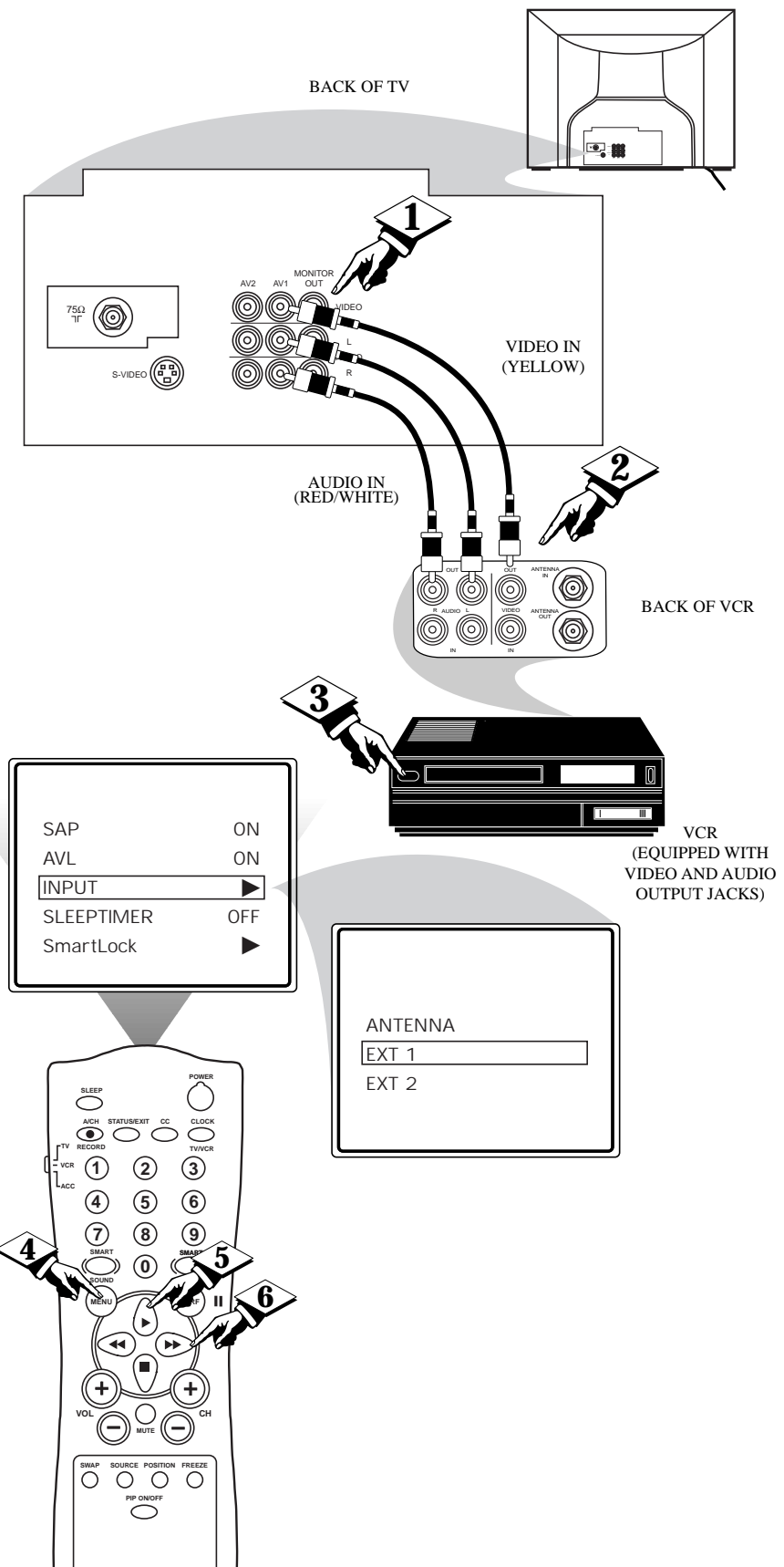
AUDIO/VIDEO INPUTS

The TV's Audio/Video Input jacks are for direct picture and sound connections between the TV and a VCR (or similar device) that has Audio/Video Output jacks.

BEGIN

- 1 **Connect the VIDEO (yellow) CABLE** to the VIDEO AV1 jack on the back of the TV. Then connect the AUDIO (red and white) CABLES to the AUDIO (left and right) AV1 jacks on the rear of the TV.
- 2 **Connect the VIDEO (yellow) CABLE** to the VIDEO OUT jack on the back of the VCR. Then connect the AUDIO (red and white) CABLES to the AUDIO (left and right) OUT jacks on the rear of the VCR.
- 3 **Turn the VCR and the TV ON.**
- 4 **Press the MENU button** on the remote to display the onscreen menu.
- 5 **Press the CURSOR UP ▲ or CURSOR DOWN ■ buttons** until the word **INPUT** is highlighted.
- 6 **Press the CURSOR RIGHT ►► or CURSOR LEFT ◀◀ button** to display the INPUT menu (**ANTENNA, EXT 1, EXT 2**). Use the CURSOR UP ▲ or DOWN ■ buttons to select. If using the **Audio/Video AV1 jacks**, select **EXT 1**. If using the **Audio/Video AV2 jacks**, select **EXT 2**.

Now you're ready to place a pre-recorded video tape in the VCR and press the **PLAY ►** button.



HOW TO USE THE AUDIO/VIDEO INPUT JACKS

S-VIDEO INPUT

The *S(uper)-Video* connection on the rear of the television can give you better picture detail and clarity, for the playback of *S-VHS* VCR tapes, or *Digital Video Discs* than the normal antenna picture connections.

Note: The accessory device being used must have a *S-Video* Output to complete this connection. The following steps show the connections to the *S-VIDEO* and *AUDIO IN 2* input jacks.

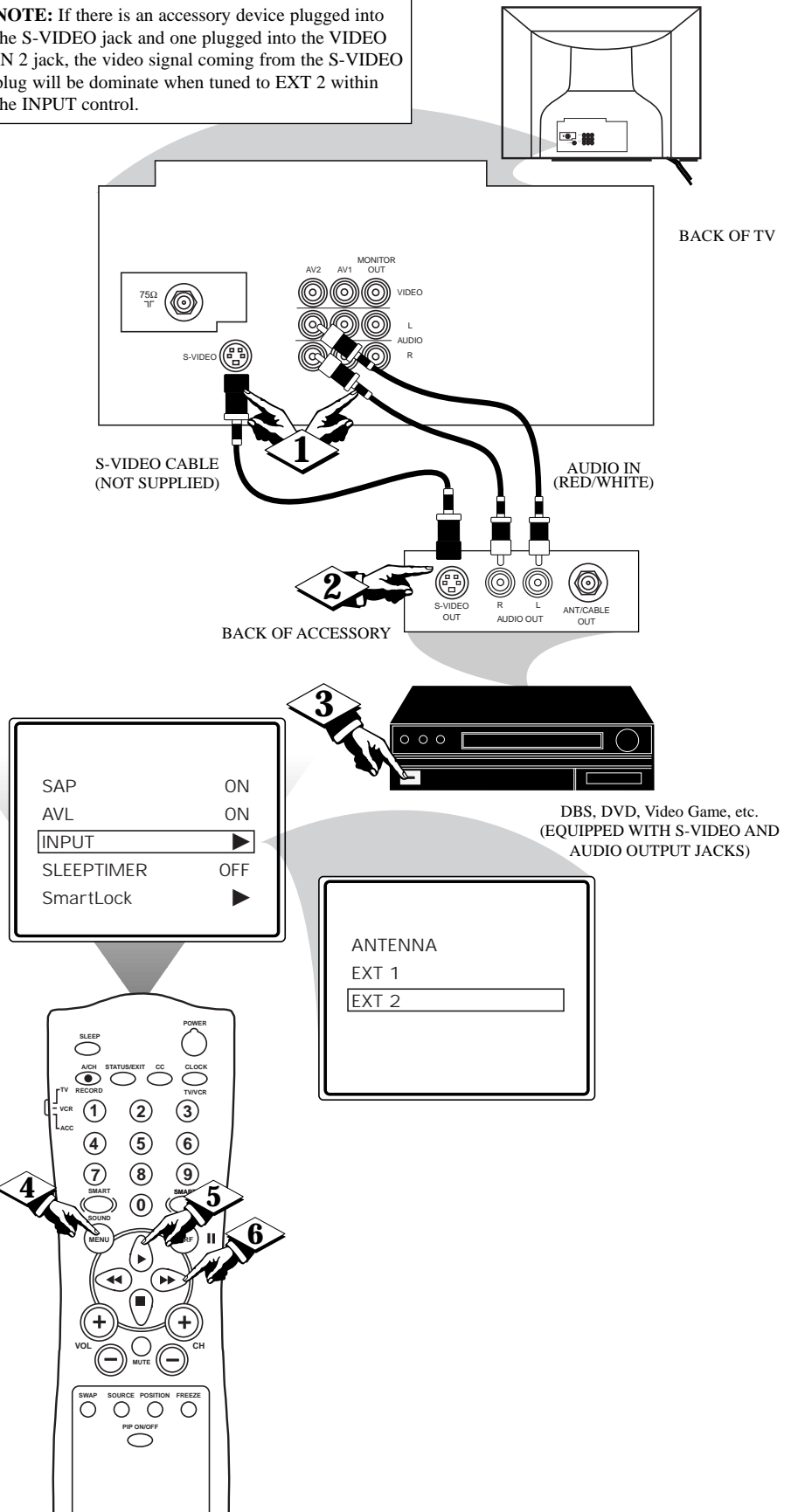
BEGIN

- 1 **Connect the S-VIDEO CABLE** to the S-VIDEO input jack on the rear of the television, then the AUDIO (red and white) to the AUDIO AV2 (left and right) jacks on the rear of the TV.
- 2 **Connect the S-VIDEO CABLE** to the S-VIDEO output jack on the accessory device. Then connect the red and white AUDIO CABLES to the AUDIO (left and right) output jacks on the rear of the accessory device.
- 3 **Turn the VCR (or Digital Video Disc Player) ON.**
- 4 **Press the MENU button** on the remote to display the onscreen menu.
- 5 **Press the CURSOR UP ▲ or CURSOR DOWN ▼ buttons** until the word **INPUT** is highlighted.
- 6 **Press the CURSOR RIGHT ►► or CURSOR LEFT ◄◄ button** to display the INPUT menu (**ANTENNA, EXT 1, EXT 2**). Use the **CURSOR UP ▲ or DOWN ▼ buttons** to select **EXT 2**.

Now your ready to use the accessory device with the S-Video outputs.



NOTE: If there is an accessory device plugged into the S-VIDEO jack and one plugged into the VIDEO IN 2 jack, the video signal coming from the S-VIDEO plug will dominate when tuned to EXT 2 within the INPUT control.





A/V OUTPUTS

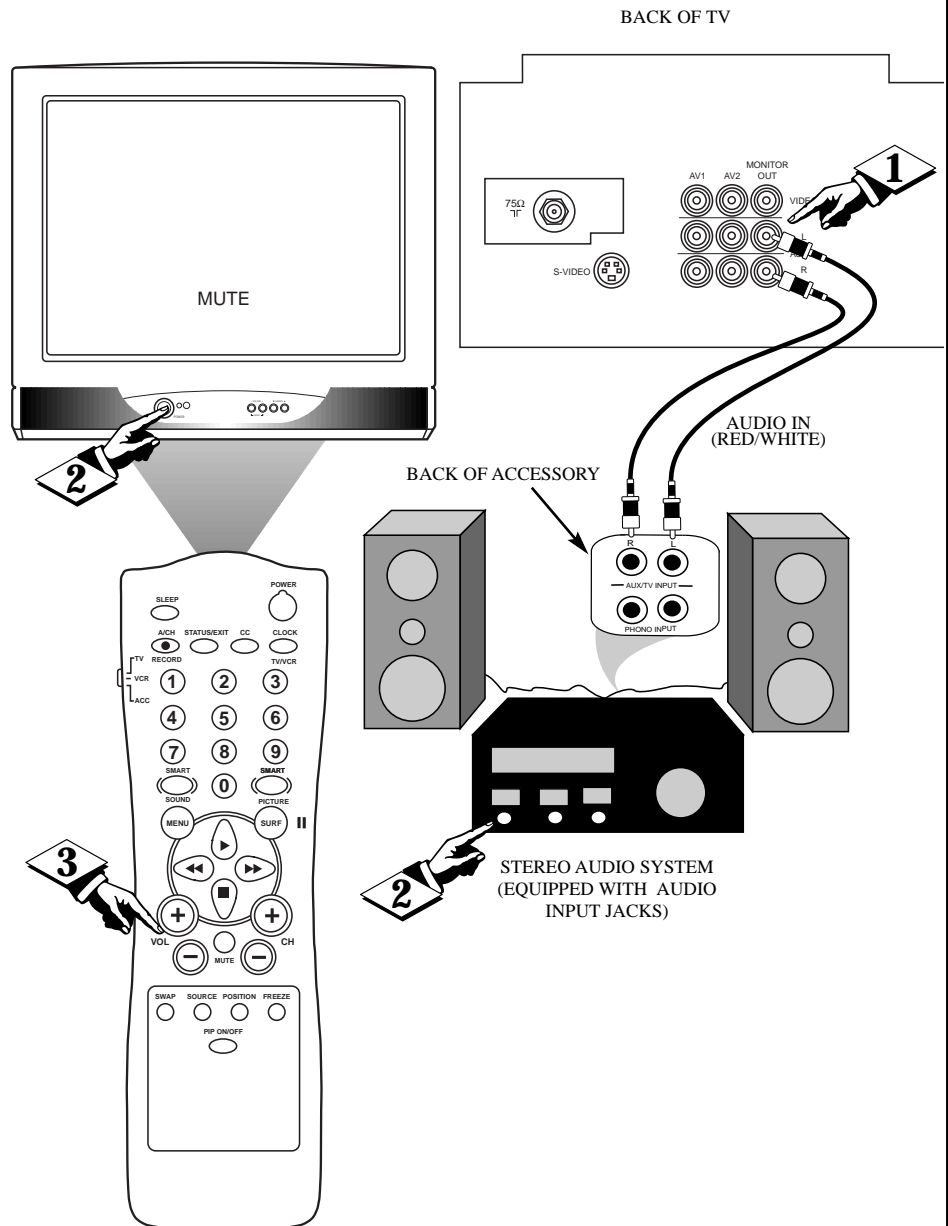
Would you like to hear TV programs through your audio hi-fi system? The TV's Audio output jacks can be used to perform this TV sound option.

(BEGIN)

- 1 **Connect the R(ight) and L(eft) AUDIO MONITOR OUT jacks** on the TV to the R and L Audio Input jacks on you amplifier or sound system. Set the audios system's volume to a normal listening level.
- 2 **Turn the TV and the audio system ON.**
- 3 You can now adjust the sound level coming from the audio system with the **VOLUME (+) or (-) buttons** on the remote.



Note: The Video and Audio MONITOR OUT Jacks can be used as a direct connection to a VCR for the recording of programs to video tapes.





USING THE SMARTPICTURE™ CONTROL

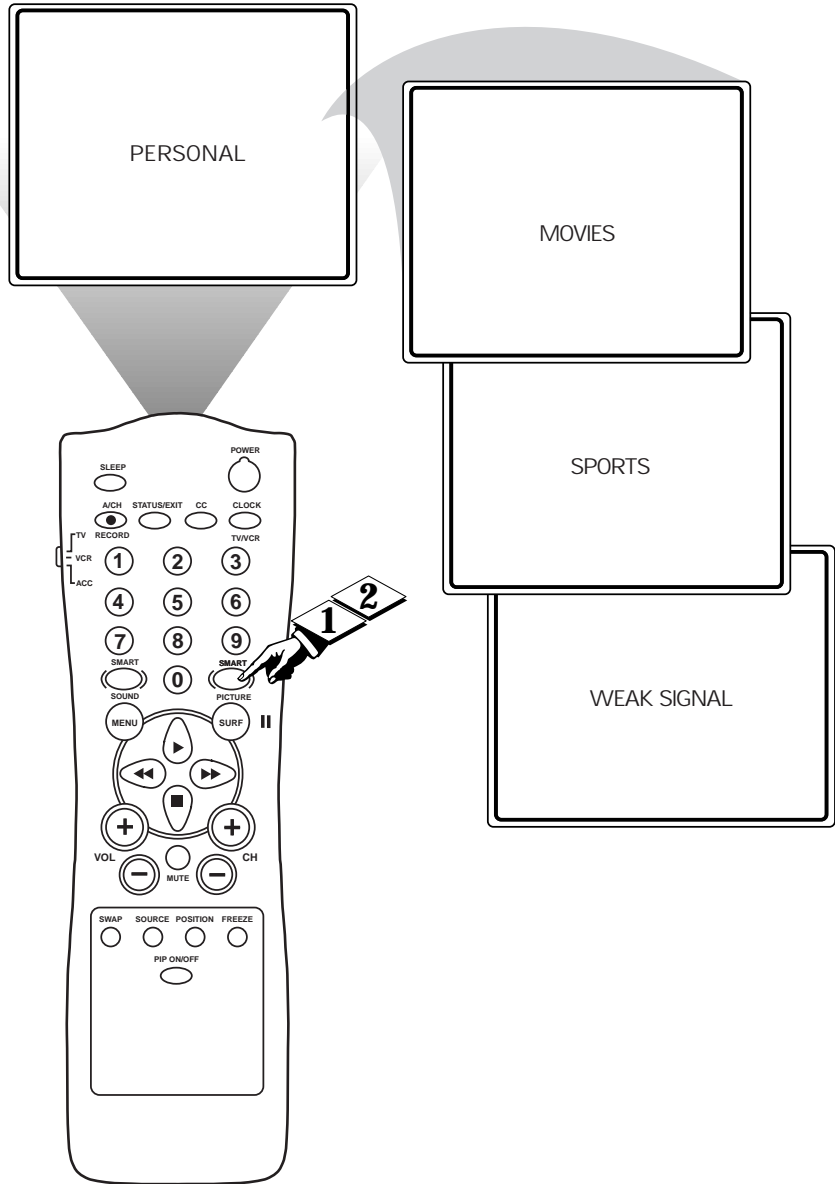
Whether you're watching a movie or a video game, your TV has automatic video control settings matched for your current program source or content. The SmartPicture feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home. Each SmartPicture setting is preset at the factory to automatically adjust the TV's Brightness, Color, Picture, Sharpness, Tint, and Color Temperature levels.

BEGIN

1 Press the **SMART PICTURE** button on the remote control. The current SmartPicture setting will appear in the middle of the screen.

2 Press the **SmartPicture** button repeatedly to select either **PERSONAL**, **MOVIES**, **SPORTS**, or **WEAK SIGNAL** picture settings.

Note: The **PERSONAL** setting is the setting that you setup using the **PICTURE** options within the onscreen menu. This is the only SmartPicture control setting that can be changed. All other settings are setup at the factory during the time of production. If settings are changed while using the **Movie**, **Sports**, or **Weak Signal** selections, the changes you make will become the "new" **Personal** settings. The **Movie**, **Sports**, and **Weak Signal** settings cannot be changed.





The SmartSound feature allows the listener to select between four different factory set sound options. Personal (which can be set by the user), Theater (for movie viewing), Music (for musical type programming) and Voice (when the program is mainly dialogue). To select any of the options follow the directions below.

BEGIN

- 1 Press the **SMART SOUND** button on the remote control. The current SmartSound setting will appear in the middle of the screen.
- 2 Press the **SMART SOUND** button repeatedly to toggle between the four settings.

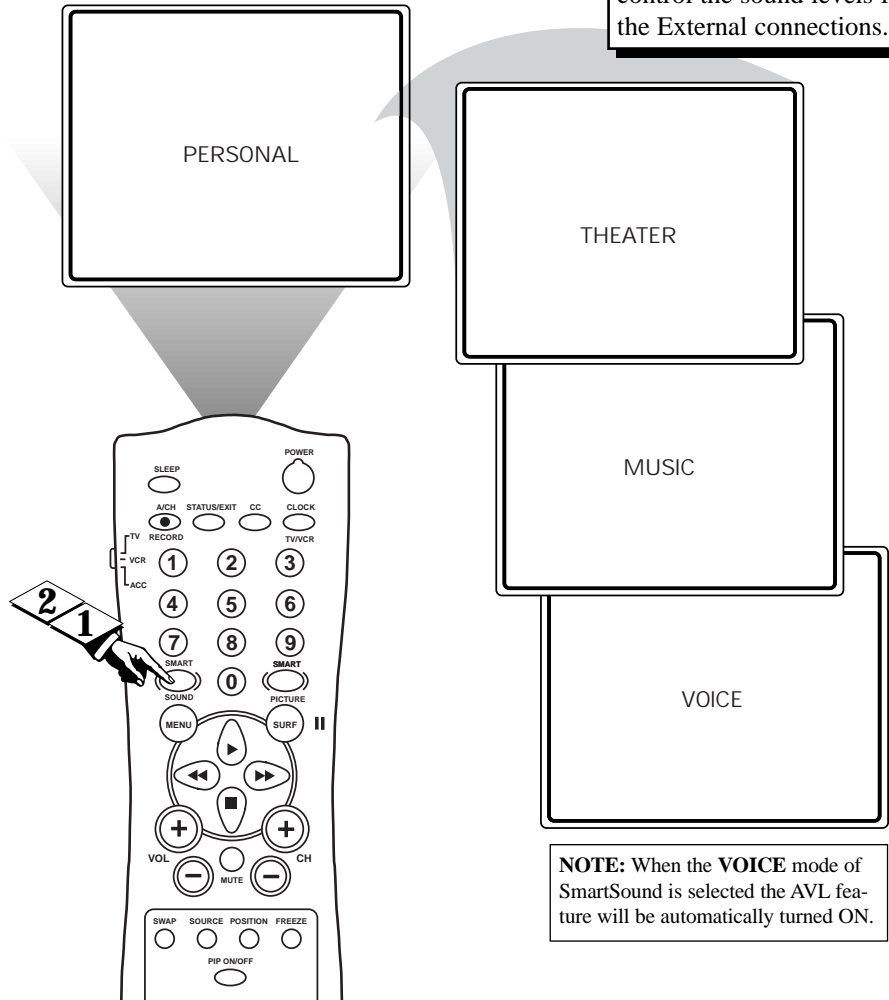
Remember, only the **PERSONAL** control can be changed by the viewer. This changes the settings in the main onscreen menu's sound controls. All other settings are setup at the factory during the time of production. If settings are changed while using the Theater, Music or Voice selections, the changes you make will become the "new" Personal settings. The Theater, Music and Voice settings cannot be changed.



SMART HELP



Remember, SmartSound works only with the programs coming through the 75 Ω input jack on the rear of the TV (RF audio). It will not control the sound levels for the External connections.



NOTE: When the **VOICE** mode of SmartSound is selected the **AVL** feature will be automatically turned ON.

AVL CONTROL

In most cases the volume levels coming from broadcast programming or commercials are never the same. With the AVL control turned ON, you can have the TV level out the sound being heard. This makes for a more consistent sound by reducing the peaks and valleys that occur during program changes or commercial breaks.

SOUND	STEREO
SAP	ON
AVL	OFF
INPUT	EXT 1
SLEEPTIMER	OFF

SOUND	STEREO
SAP	ON
AVL	ON
INPUT	EXT 1
SLEEPTIMER	OFF



USING THE TV'S SMARTSURF™ CONTROL

A "list" or series of previously viewed channels can be selected with the SURF button on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The SmartSurf control allows you set up to eight channels in its quick viewing "list".

BEGIN

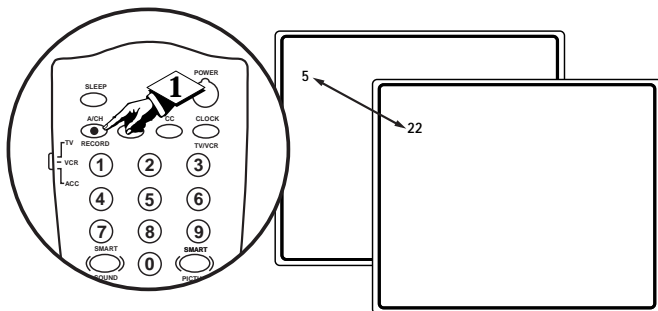
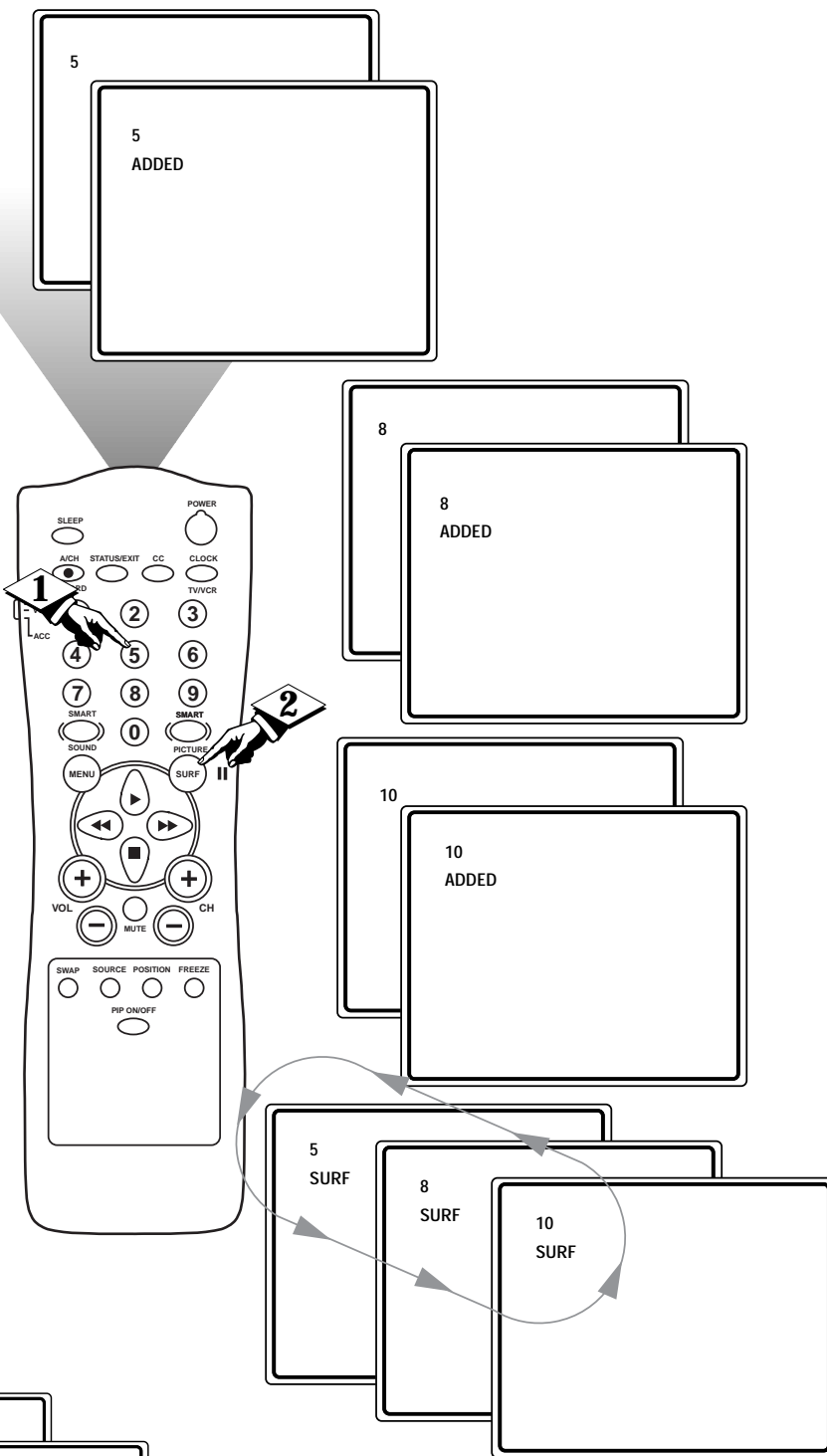
- 1 Press the CHANNEL (+) or (-) buttons (or the NUMBER buttons) to select a channel to add to the SURF list.
- 2 Press the SURF button on the remote while the channel number is still displayed to ADD the channel to the SURF list.
- 3 Repeat steps 1 through 2 to add additional channels (up to 8) to the SURF list.

To remove a channel for the SURF list, simply choose the channel with the numbered buttons and press the SURF button while the channel number is still displayed and the screen will read DELETED.



A/CH BUTTON

Your remote also has an A/CH (Alternate Channel) button. Pressing this button will toggle between the Current and one previously selected channel.



Press the SURF button repeatedly to cycle or "loop" through the channels saved in the SURF channel list.

SETTING THE REMOTE CONTROL TO WORK WITH OTHER DEVICES



Your remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable Boxes, Satellite Systems, DBS, etc. However, an easy onetime step may be necessary before the remote will work your VCR.

Try this initial check to see if going on to the following section is necessary.

BEGIN

1 Place the TV/VCR/ACC Mode Switch in the proper position.

2 Point the remote control at the device and press the POWER button.

3 Does the remote turn the device ON?

If **YES**, stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.

If **NO**, continue...

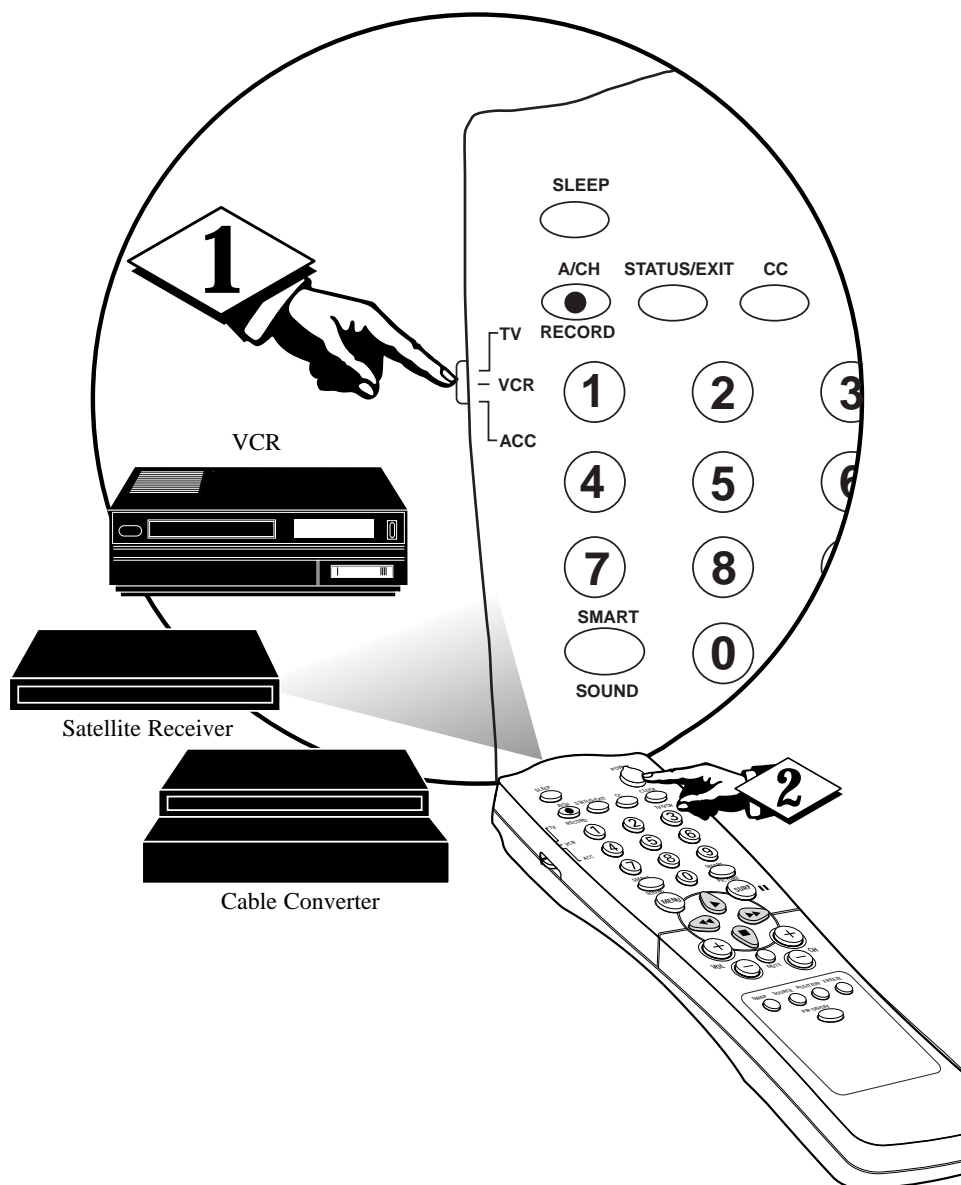
1 First look up a **THREE-DIGIT remote control number** for your brand of Device before going through the simple steps on the following page.

Find your Three-Digit Code on pages 34-35.

SMART HELP



Remember, if more than one number is listed, you may have to try more than the first Three-Digit code given in order to locate your Device's remote code.



SETTING THE REMOTE CONTROL TO WORK WITH OTHER DEVICES

Direct Access Method

Now that you have looked up the three-digit Remote Code Number for your brand of device, you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

BEGIN

- 1** Place the TV/VCR/ACC Mode Switch in the proper position.
- 2** Press the VCR RECORD button on the remote control and release.
- 3** Press the SmartSound button on the remote within 30 seconds, then release.
- 4** Enter the THREE-DIGIT REMOTE CODE NUMBER for your desired device. The remote is now ready to send commands to the unit.
- 5** Point the remote at the Device. Press the POWER button on the remote to turn the unit ON.

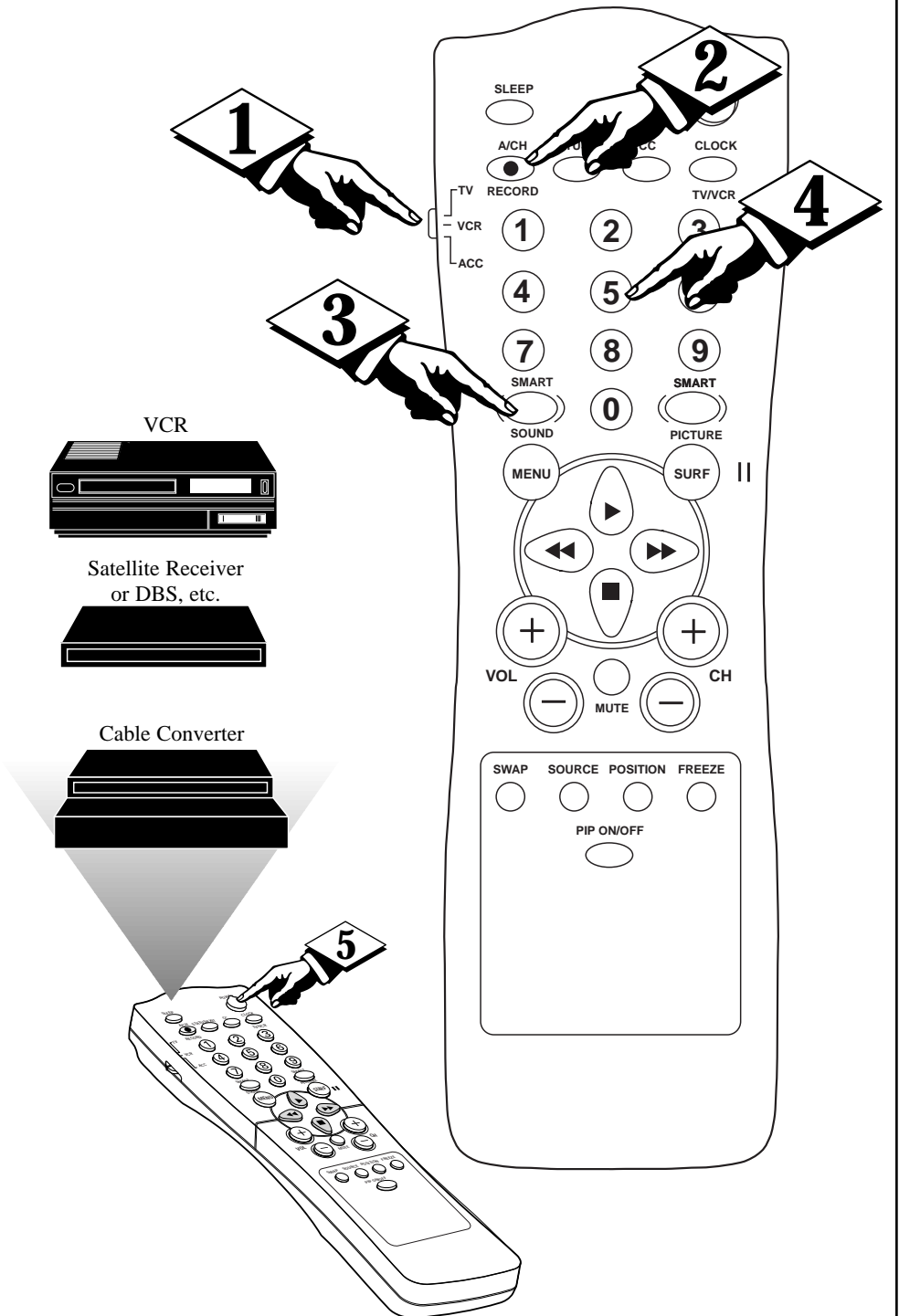
STOP

SMART HELP

Remember, if this doesn't work the first time, repeat steps using the same remote code number.

After a second try and the remote does not operate your device, see if there is another three-digit code number (pages 34-35) listed for your device and repeat the steps above using the new number.

If after repeated attempts the code number method does not work your device, try the **SEARCH METHOD** on page 33.



SETTING THE REMOTE CONTROL TO WORK WITH OTHER DEVICES



Search Method

Your TV remote can be set to work various external devices such as VCRs, Cable Boxes, Satellite Receivers, DBS, etc. by what is called the search method of remote control programming. If the "DIRECT ACCESS" code number method (shown on the previous page) did not set your remote to work your accessory device, then follow the easy steps listed below.

Note: The Search Method only works with devices equipped with channel display indicators or capability.

Please read steps 1-4 before beginning.

BEGIN

- 1 Press the **POWER** button on the device you are attempting to program to turn it ON.
- 2 Place the **TV/VCR/ACC Mode Switch** in the proper position.
- 3 Press the **(A/CH) • RECORD** and the **SMART SOUND** buttons simultaneously and hold them down.
- 4 The device will begin to change channels after the remote identifies the correct code. When the channels start to change release the **VCR RECORD** and **SMART SOUND** buttons. The remote should be ready to operate the device.

STOP

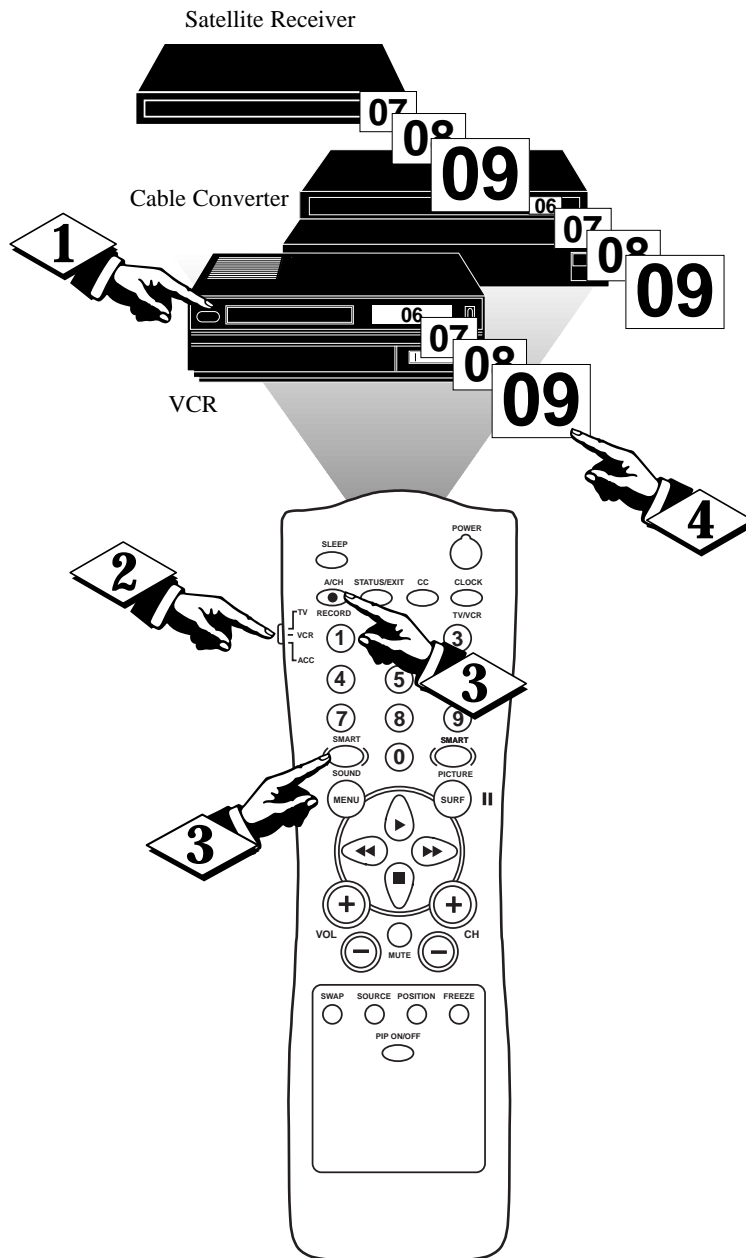
SMART HELP



This method can take up to two minutes to perform.

Don't let the device scan up more than five channels. If you do the remote may pass up the right code and another two minute search cycle will have to be repeated.

If no channel change happens within two minutes, repeat steps 1-4. Should a channel change still not occur, the remote will not work the desired device.





REMOTE CONTROL DIRECT ENTRY CODES

VCR	REMOTE CODE NO.	VCR	REMOTE CODE NO.	VCR	REMOTE CODE NO.
Admiral	.048	Loewe	.004	Sanyo	.046, 047, 104, 240, 268
Advantz	.358	Logik	.004, 072	Saville	.352
Adventure	.000	MEI	.035	Scott	.043, 045, 121, 164, 211, 212
Aiko	.278	MGA	.043, 061	Sears	.000, 035, 037, 042, 046, .047, 054, 066, 104, 105
Aiwa	.000, 037, 307, 348, 352	MGN Technology	.240	Sharp	.046, 062
Akai	.041, 049, 053, 061, 106, 315	MTC	.000, 240	Shintom	.072
Alba	.352	Magnavox	.000, 035, 081, 146, 181	Shogun	.051, 240
Amercian High	.035	Marta	.037	Shoral	.004
Amstrad	.325, 332	Matsui	.004, 348, 352	Siemens	.003
Asha	.240	Matsushita	.035, 162, 454	Singer	.072
Audiovox	.037	Memmorex	.307	Sinudyne	.004
Baird	.107	Memorex	.000, 035, 037, 039, 046, .047, 048, 104, 240, 266, 307	Sony	.000, 011, 022, 032, 033, .034, 035, 253, 275
Beaumarck	.240	Metz	.003, 347	Sunkel	.348
Bell & Howell	.104	Minolta	.042, 105	Sunpak	.253
Blaupunkt	.003, 006, 154	Mitsubishi	.043, 061, 067, 075, 173, 443	Sylvania	.000, 035, 043, 081, 103, 110
Brandt	.187, 320, 321	Motorola	.035, 048	Symphonic	.000
Broksonic	.121, 184, 211, 295, 361	MultiTech	.000, 072	TMK	.036, 208, 240
Bush	.352	NAD	.058	Tatung	.041
CCE	.072, 278	NEC	.036, 040, 041, 067, 104	Teac	.000, 041
Calix	.037	Nikko	.037	Technics	.035, 162
Canon	.035	Nikon	.034, 253	Teknika	.000, 035, 037
Capemhart	.020	Noblex	.240	Telefunken	.187, 320, 321
Carver	.081, 146	Nordmende	.297, 320, 321	Tansal	.322
Citizen	.037, 278	Okano	.346	Thomas	.000
Colt	.072	Olympus	.035, 226	Thomson	.320
Combitach	.352	Optimus	.037, 048, 058, 104, .162, 432, 454	Toshiba	.043, 045, 066, 212, 366
Craig	.037, 047, 072, 240, 271	Optonica	.062	Totavision	.037, 240
Curtis Mathes	.035, 041, 060	Orion	.004, 295, 348, 352, 479	Towada	.322
Cybermax	.051, 240	Panasonic	.035, 077, 162, 225, .226, 378, 454	Unitech	.240
Daewoo	.020, 045, 276	Penney	.035, 037, 038, 040, .042, 065, 105	Universum	.325
Daytron	.020	Pentax	.042, 065, 105	Vactor	.045
Denon	.042	Philco	.035	Vactor Research	.038, 040
Dynatech	.000	Philips	.035, 062, 081, 110, 403	Video Concepts	.040, 045, 061
ElectroPhonic	.037	Pilot	.037	Videosonic	.240
Emerex	.032	Pioneer	.058, 067	Wards	.000, 035, 042, 047, 048, 060, 062, .072, 081, 149, 161, 212, 240
Emerson	.000, 002, 036, 037, 043, 061 .068, 088, 121, 164, 208, 209, .211, 212, 278, 295, 361, 479	Portland	.020	XR-1000	.000, 035, 072
Ferguson	.107, 320, 321	Profax	.322	Yamaha	.038
Fisher	.047, 054, 066, 104	Profitronic	.240	Zenith	.000, 033, 034, 039
Fuji	.033, 035	Protec	.072		
Funai	.000	Pulsar	.039, 051	CABLE CONVERTOR	REMOTE CODE NO.
GE	.035, 060, 065, 202	Quarter	.046	ABC	.001, 003, 007, 008, .011, 013, 014, 017
Garrard	.000	Quartz	.046	Aliegio	.153
Go Video	.232, 279, 432	Quasar	.035, 077, 162, 454	Andover	.544
Gold Star	.037, 038	RCA	.042, 060, 065, 077, .105, 106, 149, 202	Antronix	.022
Gradiente	.000, 406	Radio Shack	.000, 037	Archer	.022, 153
Grundig	.003, 007, 195, 347	Radix	.037	Balcor	.056
HI-Q	.047	Randex	.037	British Telecom	.105
Harley Davidson	.000	Realistic	.000, 035, 037, 045, 047 .048, 062, 066, 104	Cable Star	.056
Harman/Kardon	.038, 075	Ricoh	.034, 253	Cablatenna	.022
Harwood	.068, 072	Runco	.039	Cabletime	.161, 271, 377, 448
Headquarter	.046	SEG	.322	Cableview	.022
Hinari	.004, 352	SEI	.004	Century	.153
Hitachi	.000, 004, 041, 042, .065, 105, 168, 235	STS	.042	Citizen	.153
Ingersol	.004	Saba	.297, 320, 321	Clyde	.086
JVC	.008, 041, 067, 208, 384, 486	Saisho	.004	Colour Voice	.025, 031
Jensen	.041	Salora	.075	Comtec	.274
KEC	.037, 278	Samsung	.045, 051, 053, 240	Comtronics	.040
KLH	.072	Sanky	.039, 048	Contec	.019
Kenwood	.038, 041, 067, 384	Sansui	.000, 041, 067, 271	Cryptovision	.600
Kodak	.035, 037			Deceat	.423
LXI	.037				
Lloyd's	.000, 206				

REMOTE CONTROL DIRECT ENTRY CODES



<u>CABLE CONVERTOR</u>	<u>REMOTE CODE NO.</u>	<u>CABLE CONVERTOR</u>	<u>REMOTE CODE NO.</u>	<u>Satellite</u>	<u>REMOTE CODE NO.</u>
Eastern	.002, 274	United Artists	.007	Hirschmann	.397, 573
Everquest	.015, 040	United Cable	.003	Houston	.668
Filmnet	.443	Universal	.022, 056, 153, 191	Huth	.220, 243, 268
Focus	.400	Videoway	.250	ITT	.108
France Telecom	.451	Viewstar	.027, 063, 258	Intervision	.592
GC Electronics	.056	Visi Cable+	.461	JVC	.515, 571
GEC	.086	Westminster	.105	Kathrein	.092, 504, 622, 658
Ganard	.153	Wolsey Gainé	.544	La Sat	.513, 607
Gemini	.015, 070, 242	Zenith	.000, 054, 525	Lennox	.592
General Instrument	.011, 276, 476	Zentek	.400	Lupus	.369
Gold Star	.040			Luxor	.108, 573
Grundig	.529			Manhattan	.592
Hamlin	.009, 020, 034, 259			Maspro	.092, 336, 750
Hitachi	.011			Matsui	.571
Hytex	.007			Mediamarkt	.248
Jasco	.153			Minerva	.571
Jerrold	.003, 011, 012, 014, .015, 024, 276, 476			Mintec	.576
M.N.E. T.	.443			Morgan's	.243, 513
MNet	.443			Newhaus	.220
Macon	.033			Nikka	.360, 713
Magnavox	.027, 032, 334			Nokia	.108, 397, 573
Memorex	.000			Nordmende	.362
Movie Time	.063			Orbitech	.501
NSC	.063, 070			Pace	.067, 183, 336, 455, 791
Oak	.007, 019			Paliadium	.571
Optimus	.021			Palsat	.501
Panasonic	.000, 021, 107			Philips	.200, 292, 571, 750
Paragon	.000			Phonotrend	.288, 592
Philips	.025, 027, 031, 153, 242, 290, 334			Plasmatic	.442
Pioneer	.533, 753			Proset	.288
Popular Mechanics	.400			Quadral	.362, 628
Pulsar	.000			RFT	.220, 288
RCA	.021			Radix	.396
Radio Shack	.015			SAT	.351, 461
Recoton	.400			SEG	.369
Regal	.020, 259			Saba	.336
Regency	.002			Salora	.108
Rembrandt	.011, 070			Satec	.183
Runco	.000			Schwaiger	.183, 504
SL Marx	.040			Seemann	.396, 578, 626
Salora	.382			Skymaster	.288, 626
Samsung	.040			Sony	.704
Satbox	.375			Star Trak	.421
Scientific Atlanta	.008, 017, 477			Strong	.421
Signal	.015, 040			Sunstar	.513
Signature	.011			Tantec	.336
Sprucer	.021			Techni Sat	.262, 501
Star Sight	.542			Teleka	.243, 613
Starcom	.003, 015			Tonna	.668
Stargate	.015, 040			Triad	.351
Starquest	.015			Universum	.571
Sylvania	.001			Vtech	.351
TV85	.063			Wisi	.351, 396
Tandy	.258				
Tele+1	.443				
Teleservice	.281				
Television	.040				
Texscan	.001				
Timeless	.274				
Tocom	.012, 013, 059				
Toshiba	.000				
Tudl	.286				
Tusa	.015				
Unike	.022, 153				
		DBS	REMOTE CODE NO.		
		Alpha Star	.772		
		Echostar	.775		
		HTS	.775		
		Hitachi	.819		
		Hughes Network System	.749		
		Jerrold	.627		
		Magnavox	.722, 724		
		Memorex	.724		
		Panasonic	.701		
		Philips	.722, 724		
		Primestar	.627		
		RCA	.566		
		Sony	.639		
		Toshiba	.790		
		Uniden	.724		
				REMOTE CODE NO.	
		Satellite		AST	.351
		Akai	.515	Akai	.515
		Alba	.352, 515, 613	Alba	.288
		Aldea	.288	Amstrad	.080, 252, 345, 461, 509, 689
		Ankaro	.220, 288, 369	Ankaro	.220, 288, 369
		Anitron	.183	Anitron	.183
		Armstrong	.243	Armstrong	.243
		Astra	.108	Astra	.108
		Avalon	.396	Avalon	.396
		Axis	.369	Axis	.369
		BT	.515, 668	BT	.515, 668
		Beko	.189	Beko	.189
		Best	.369	Best	.369
		Boca	.243, 513	Boca	.243, 513
		Bush	.067	Bush	.067
		Cambridge	.344, 515	Cambridge	.344, 515
		Channel Master	.362	Channel Master	.362
		Commlink	.288	Commlink	.288
		Connexions	.396	Connexions	.396
		Conrad	.607	Conrad	.607
		Crown	.243	Crown	.243
		DDC	.362	DDC	.362
		DNT	.396	DNT	.396
		Echostar	.396	Echostar	.396
		Ferguson	.067, 183, 189, 336	Ferguson	.067, 183, 189, 336
		Fidelity	.252	Fidelity	.252
		Finiux	.108, 397	Finiux	.108, 397
		Fuba	.369, 396	Fuba	.369, 396
		G-Bat	.183	G-Bat	.183
		Galaxis	.286	Galaxis	.286
		Gooding	.571	Gooding	.571
		Grundig	.173, 189, 571, 750	Grundig	.173, 189, 571, 750
		Hinari	.183	Hinari	.183
				DVD	REMOTE CODE NO.
				Kenwood	.534
				Mitsubishi	.521
				Panasonic	.490
				Philips	.539
				Pioneer	.550
				RCA	.522
				Sony	.552
				Toshiba	.503

USING THE REMOTE'S VCR BUTTONS

When using the TV remote with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method).

BEGIN

1 Set the TV/VCR/ACC mode switch to VCR on the remote.

2 Point the top of the remote toward the front of the VCR (remote sensor window) when pressing the buttons.



RECORD BUTTON

Hold the (A/CH) • RECORD button down to begin a VCR recording.

VCR SYSTEM SWITCH

Set in the VCR position to send remote commands to the VCR.

PLAY BUTTON ▶

Press to begin playback of a video tape.

REWIND BUTTON ◀◀

Press to rewind tapes. For some VCR's the STOP button may have to be pressed first, then REWIND. In playback mode hold down the button to view picture moving rapidly in reverse.

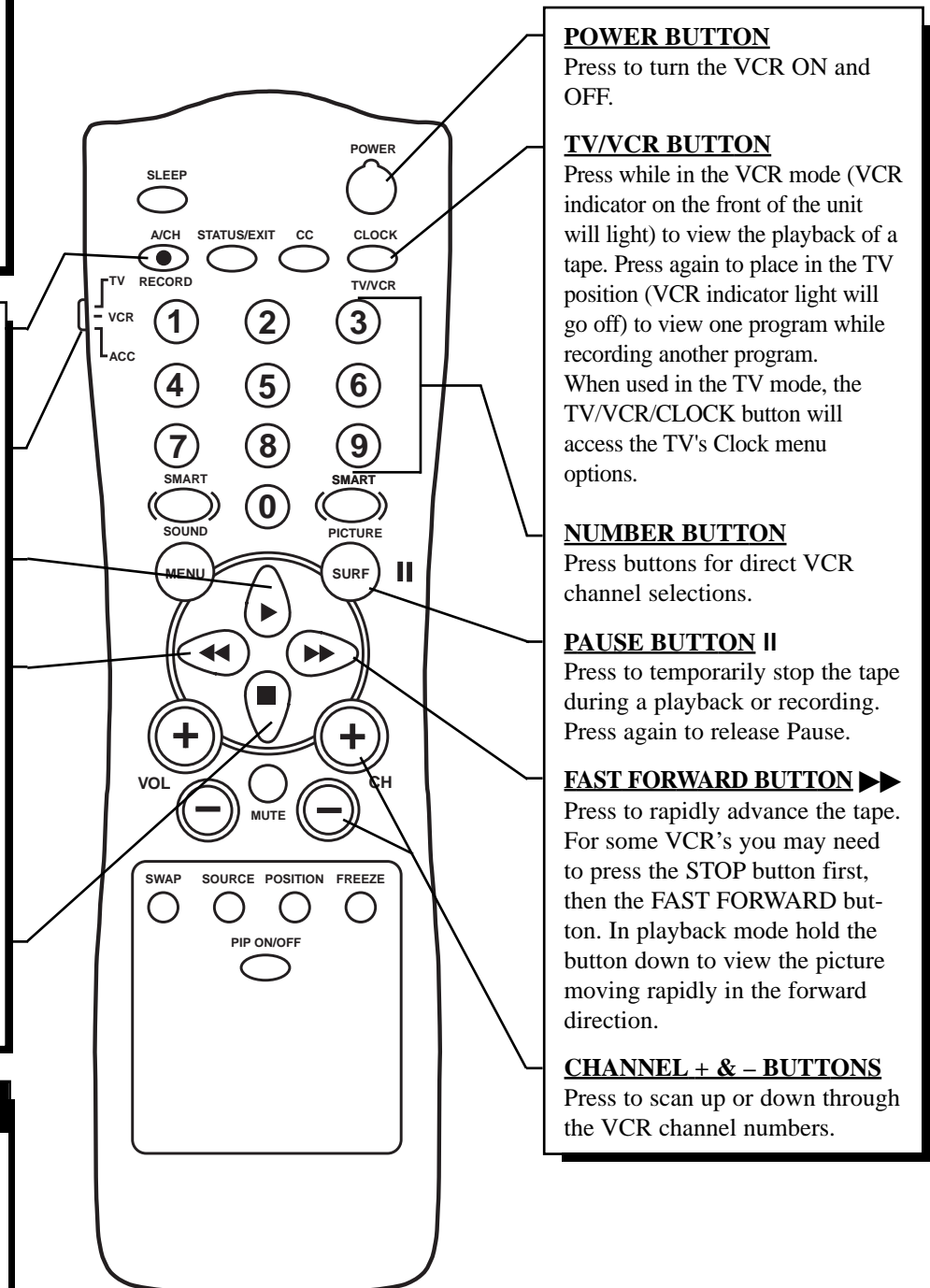
STOP BUTTON ■

Press to stop the motion of a tape in playback, rewind, fast forward, etc.

SMART HELP

Remember, the VCR buttons on the remote will not operate your VCR if those features are not found on your VCR remote control.

Note: All VCR functions (particularly Search, Rewind, Fast Forward, etc.) will operate the same as with the original VCR remote control provided with the VCR.



USING THE PIP (PICTURE-IN-PICTURE) FEATURE



Hooking up PIP

Picture-In-Picture (PIP) is the showing of two pictures on the TV screen at the same time. (One main screen picture and one small inset picture - or PIP).

Please Note: A VCR (or Accessory Device) is needed to supply the PIP signal.

The follow steps describe the basic hookup needed to use PIP:

(BEGIN)

- 1** First use an optional signal splitter and connect the original cable TV signal to both the CABLE/ANT IN on the VCR and the 75Ω input jack on the rear of the television.
- 2** Connect the VIDEO OUT jack on the VCR to the VIDEO AV1 jack on the TV.
- 3** Connect the AUDIO OUT (right and left) jacks from the VCR to the AUDIO AV1 (right and left) jacks on the television.

Be sure to turn the VCR ON while using the PIP features. The signal supplied through the VCR will appear in the PIP window once the PIP Source has been selected. Please refer to the next page to learn how to set the PIP Source control.

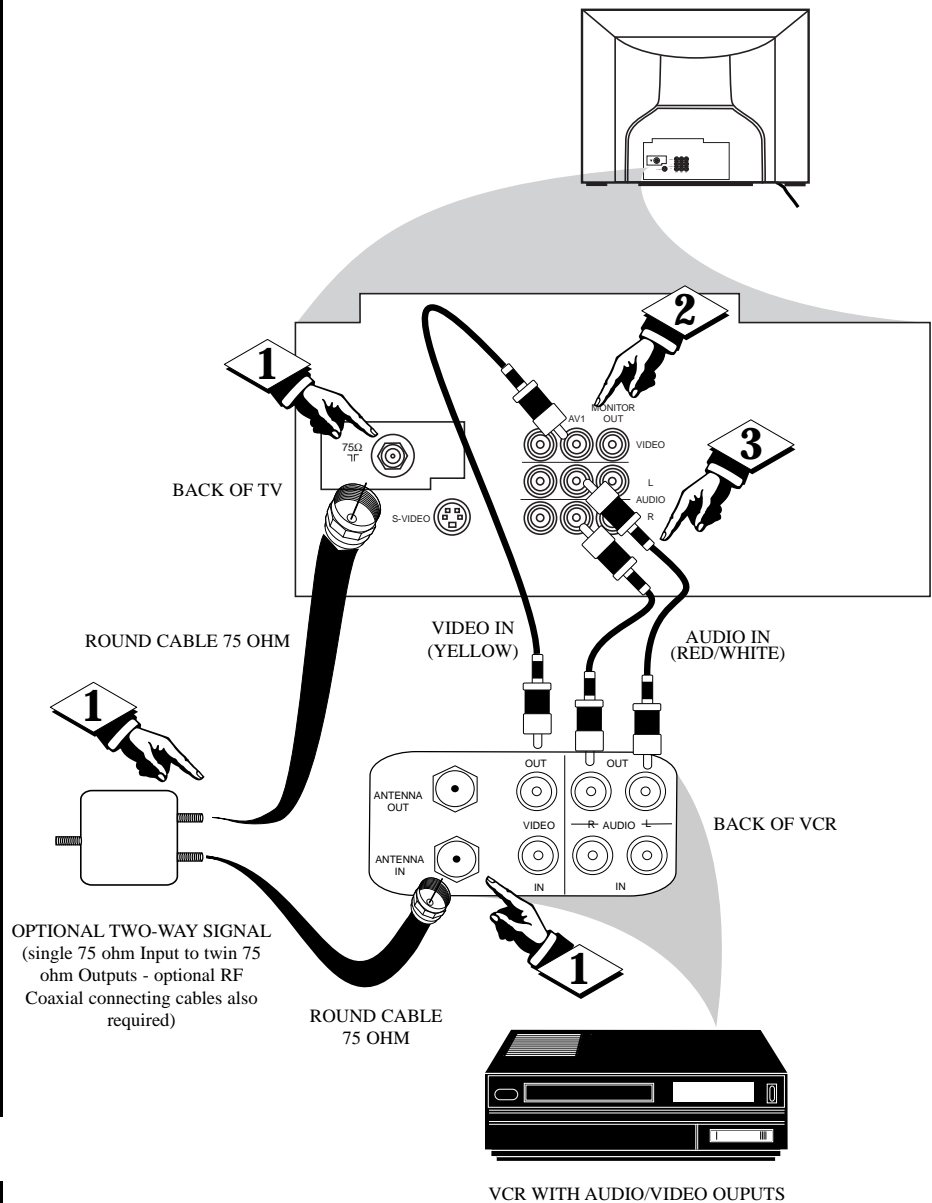
SMART HELP



For other possible PIP connections see pages 41-42 for the "More PIP Connections" section.

If you need any accessories or parts to complete the described PIP connections, contact your dealer, or our Parts Information Center at:

1-800-851-8885



SELECTING THE PIP (PICTURE-IN-PICTURE) SOURCE

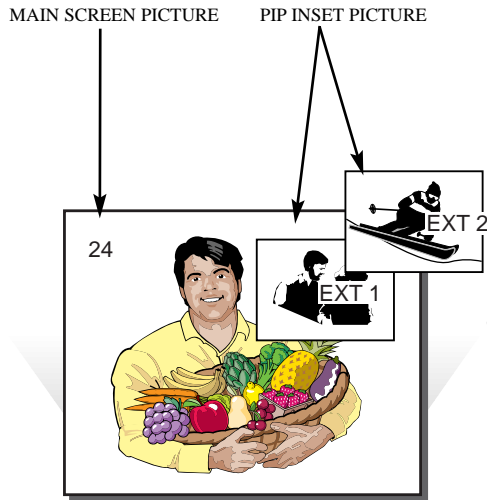
CHOOSING THE PIP SOURCE

The picture for the PIP window can come through either the 75Ω Input or any the the external Audio/Video Inputs (in 1, in 2 or S-VIDEO) at the rear of the TV. PIP Source simply tells the TV which one of these sources it is to show in the PIP window.

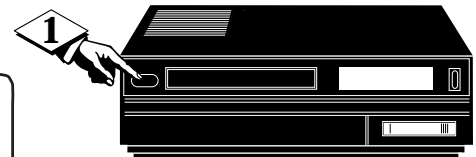
(BEGIN)

- 1 Turn the TV and VCR (or other device hooked to one the external A/V connections) ON.
- 2 Press the PIP ON/OFF button on the remote control. The PIP window should appear in the upper right hand portion of the screen.
- 2 Press the SOURCE button on the remote to toggle between the different external connections.

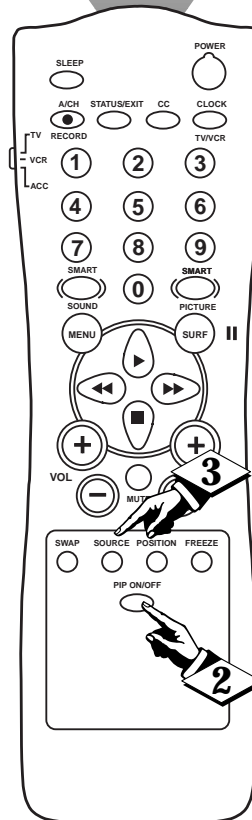
The PIP SOURCE may come from the following:
AV1 (including S-VIDEO), or AV2: for picture signal coming from the external Audio/Video jacks on the TV. (Must have an external device hooked up at these locations.)



THE PIP SOURCE PICTURE CAN COME FROM THE: AUDIO/VIDEO AV1 (EXT 1) (INCLUDING S-VIDEO), OR THE AUDIO/VIDEO AV2 (INPUT JACKS AT THE REAR OF THE TV).



VCR
(OR SIMILAR DEVICE)



USING THE PIP (PICTURE-IN-PICTURE) FEATURE



REMOTE CONTROL BUTTONS

By using the PIP buttons on the remote control the PIP picture can be moved and swapped with the main screen. The PIP inset picture can also be frozen within the PIP window.

BEGIN

1 Press the **PIP ON/OFF** button to show the PIP picture. PIP appears in one of the four corners of the screen.

Press the **PIP ON/OFF** button again and the PIP picture is reduced in size.

Pressing the **PIP ON/OFF** button a third time will remove the PIP picture from the screen.

2 Press the **POSITION** button on the remote to move the PIP picture to any of the four corners.

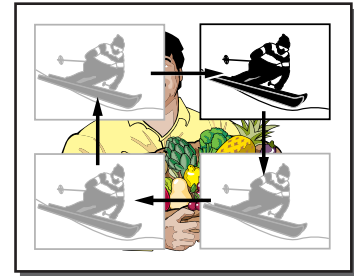
3 Press the **FREEZE** button on the remote to stop the action within the PIP window. Press the **FREEZE** button again to resume the normal viewing action.

If the **FREEZE** button is pressed while PIP is OFF, it will freeze the picture from the main screen in the PIP window.

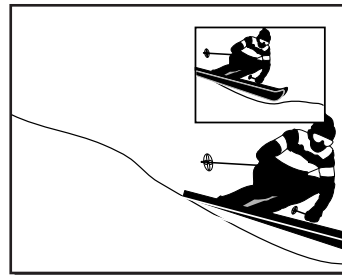
4 Press the **PIP SWAP** button to swap the main screen picture with the PIP picture. Pressing the PIP swap button again will return the main picture to the screen.



1. PIP ON/OFF



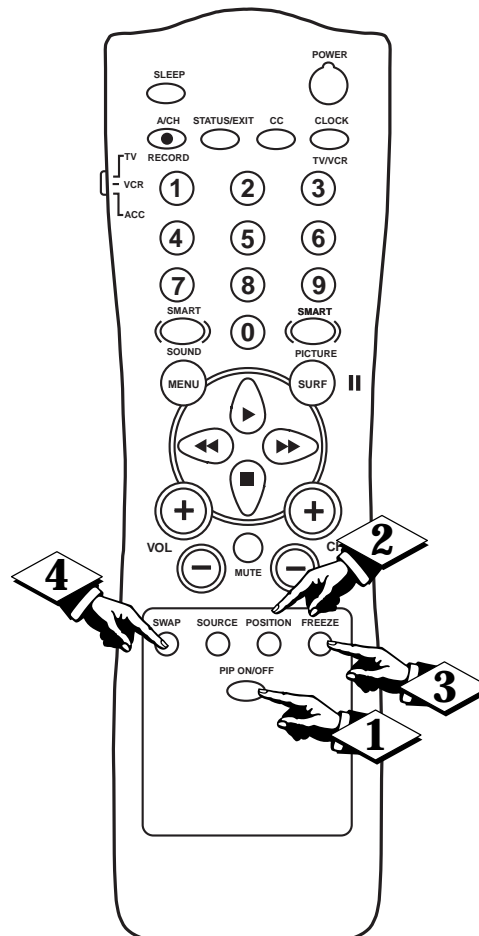
2. PIP POSITION



3. PIP FREEZE








4. PIP SWAP



ADJUSTING THE PIP TINT

The Picture-In-Picture (PIP) Tint control is used to make fine tune adjustments to the tint setting for PIP (when it is shown on the TV screen).

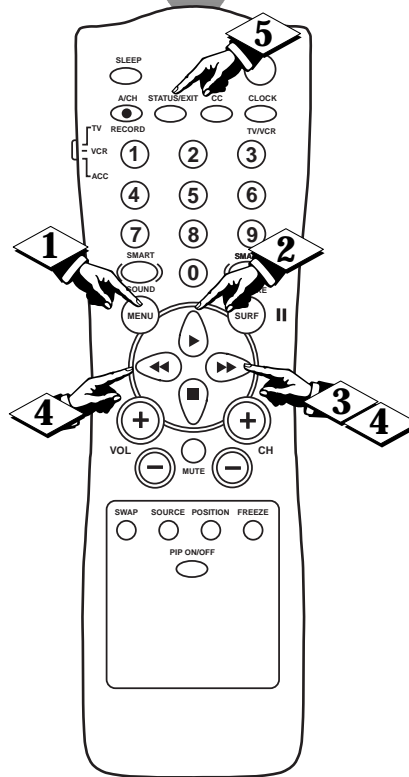
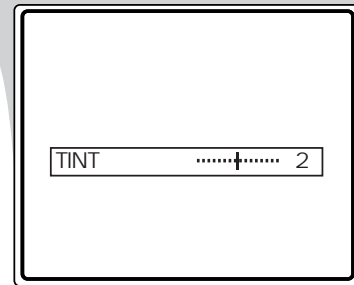
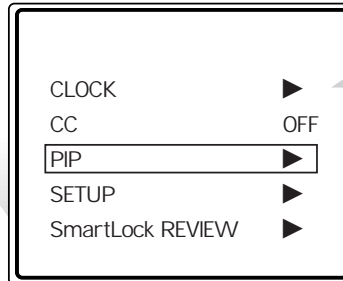
BEGIN

- 1 Press the **MENU** button on the remote to show the onscreen menu.
- 2 Press the **CURSOR UP**  or the **CURSOR DOWN**  button until the word **PIP** is highlighted.
- 3 Press the **CURSOR RIGHT**  button to display the PIP TINT control.
- 4 Press the **CURSOR RIGHT**  or the **CURSOR LEFT**  buttons to adjust the TINT bar to the desired levels.
- 5 Press the **STATUS/EXIT** button to clear the menu from the screen when the adjustment is complete.



SMART HELP

Remember, although there is a separate TINT control for PIP, the adjustment levels for this control depend on the TV's main picture. For example: If the main picture screen is showing a black and white picture, PIP would also be seen in black and white (even though the PIP picture source is in color).



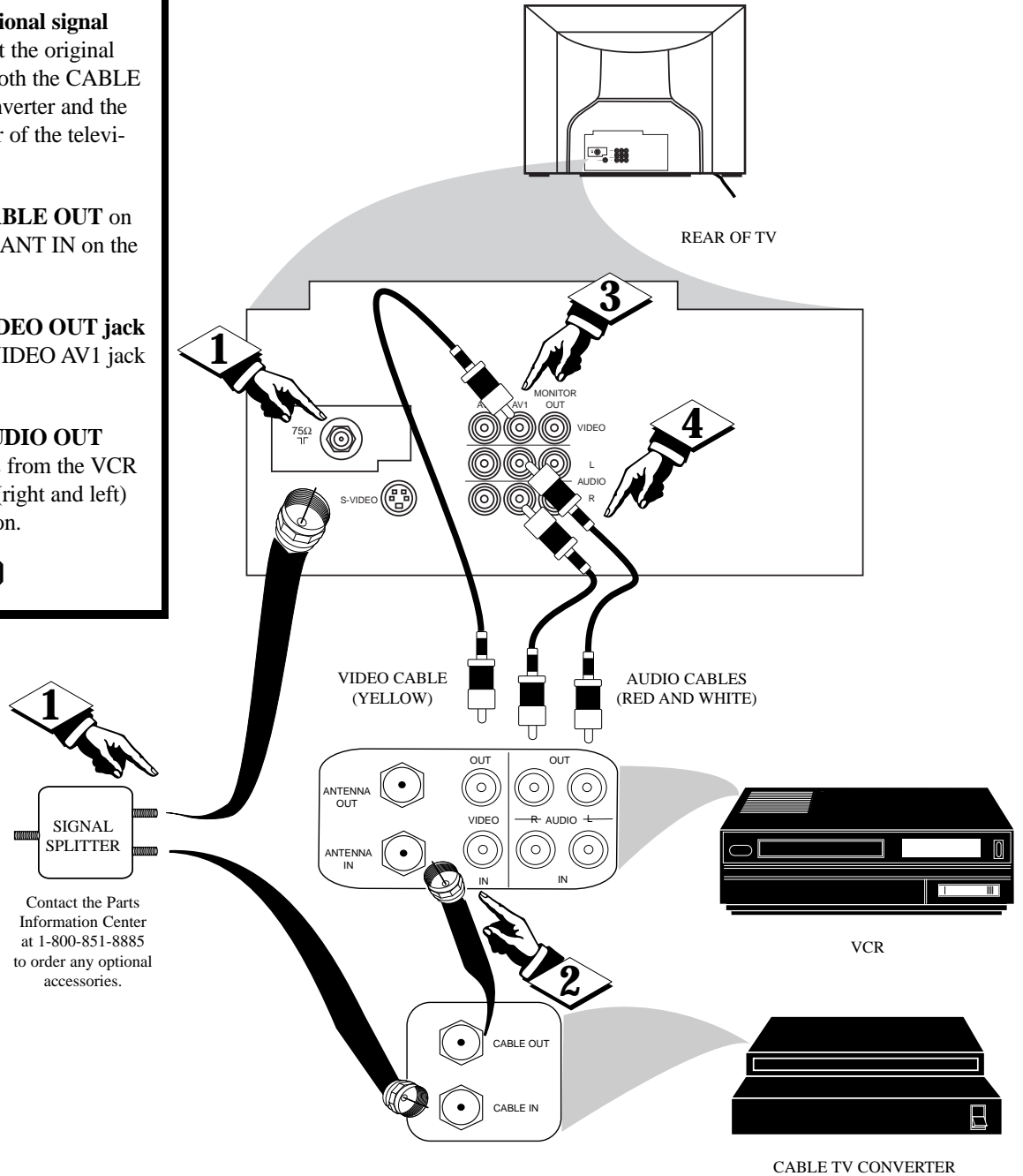
MORE PIP (PICTURE-IN-PICTURE) CONNECTIONS



PIP hookup with a Cable Box and VCR.

BEGIN

- 1** First use an optional signal splitter and connect the original cable TV signal to both the CABLE IN on the Cable Converter and the 75Ω plug on the rear of the television.
- 2** Connect the CABLE OUT on the Converter to the ANT IN on the VCR.
- 3** Connect the VIDEO OUT jack on the VCR to the VIDEO AV1 jack on the TV.
- 4** Connect the AUDIO OUT (right and left) jacks from the VCR to the AUDIO AV1 (right and left) jacks on the television.



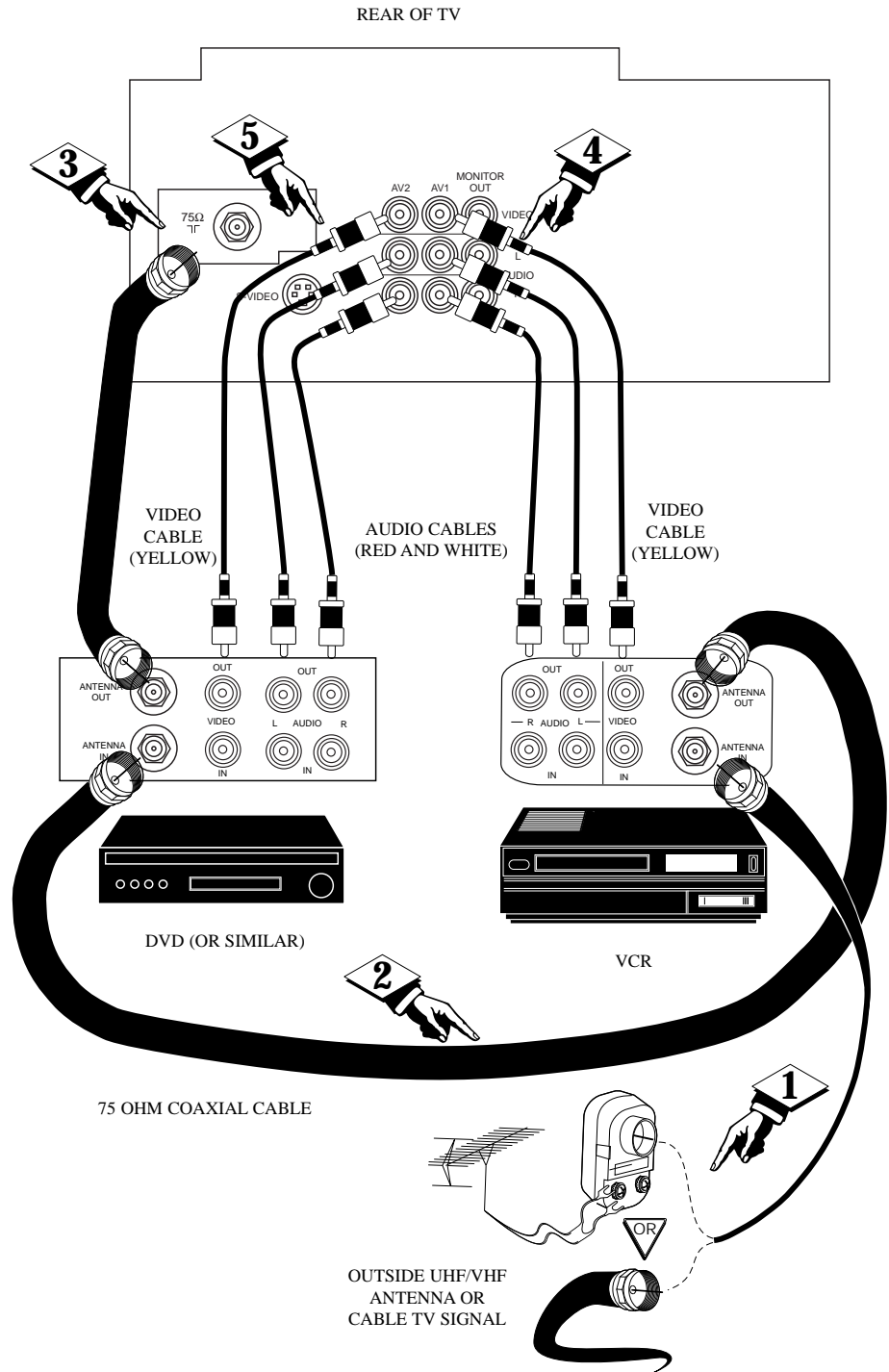
MORE PIP (PICTURE-IN-PICTURE) CONNECTIONS

PIP hookup with a VCR and a Digital Video Disc Player (or similar device).

BEGIN

- 1 First connect the original cable TV signal or Antenna signal to the ANT IN jack on the back of the VCR.
- 2 Connect the ANT OUT jack on the rear of the VCR to the ANT IN jack on the rear of the Video Disc Player.
- 3 Connect the ANT OUT jack on the rear of the Video Disc Player to the 75Ω input on the rear of the TV.
- 4 Connect the yellow Video Cable from the VIDEO OUT jack on the VCR to the VIDEO AV1 jack on the TV. Then, connect the red and white Audio Cables from the AUDIO OUT jacks on the VCR to the AUDIO AV1 jacks on the rear of the TV (labeled AUDIO L & R AV1).
- 5 Connect the yellow Video Cable from the VIDEO OUT jack on the Video Disc Player to the VIDEO AV2 jack on the TV. Then, connect the red and white Audio Cables from the AUDIO OUT jacks on the VCR to the AUDIO AV2 jacks on the rear of the TV (labeled AUDIO L & R AV2).

Note: When selecting the PIP SOURCE, the VCR will appear on the EXT 1 channel, and the Video Disc Player will appear on the EXT 2 channel.





Please make these simple checks before calling for service. These tips can save you time and money since charges for TV installation and adjustment of customer controls are not covered under your warranty.

No Power

CAUTION: A video source (such as a video game, Compact Disc Interactive - CDI, or TV information channel) which shows a constant non-moving pattern on the TV screen, can cause picture tube damage. When your TV is continuously used with such a source the pattern of the non-moving portion of the game (CDI, etc.) could leave an image permanently on the picture tube. When not in use, turn the video source OFF. Regularly alternate the use of such video sources with normal TV viewing.

- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again.
- Check that outlet is not on a wall switch. Be sure fuse is not blown on AC Power strip.

No Picture

- Check antenna connections. Are they properly secured to the TV's 75Ω plug?
- Check the TUNER control for CABLE or ANTENNA setting.
- Check Audio/Video Input jack connections if using a VCR or other external device.

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- Check Audio/Video Input jack connections if using a VCR or other external device.

Remote Does Not Work

- Check batteries. Replace with AA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary.
- Clean the remote and the remote sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again. Be sure fuse is not blown on AC Power strip if one is being used.
- Check to be sure TV outlet is not on a wall switch.

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add desired channel numbers (CHANNEL control) into TV memory.
- Check to be sure the TUNER control is set to the CABLE option.

Cleaning and Care

- To avoid possible shock hazard be sure the TV is unplugged from the electrical outlet before cleaning.
- When cleaning the TV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water. Use a clean dry cloth to dry the wiped surfaces.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.



GLOSSARY OF TELEVISION TERMS

Coaxial Cable • A single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR.

Closed Caption • Broadcast standard which allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.

Direct Audio/Video Inputs • Located on the rear of the TV these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

Identify • Method by which a remote control searches and finds an operating code for another product (such as a VCR or Cable Converter). Once the code has been "identified" then the TV remote can operate and send commands to the other product.

On Screen Displays (OSD) • Refers to the wording or messages generated by the television (or VCR) to help the user with specific feature controls (color adjustment, programming, etc.).

Menu • An onscreen listing of feature controls shown on the Television screen that are made available for user adjustments.

Multichannel Television Sound (MTS) • The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

PIP (Picture In Picture) • Allows viewing of different programs (or picture sources) on the TV screen at the same time. PIP will also let you swap the pictures, move the PIP picture to any of the four corners, and even freeze the picture until you shut it off.

Programming • The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Remote Sensor Window • A window or opening found on the Television control panel through which infrared remote control command signals are received.

Setup Mode • Automatic feature control settings made by the TV. Designed for first time setup and use. Settings for signal connections (antenna or cable TV), plus channel program memory are held in the TV's memory (even if the set is unplugged and moved to a new location.)

Second Audio Program (SAP) • Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. The most frequently proposed use for SAP is the simultaneous bilingual broadcast of TV program material.

Status • Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

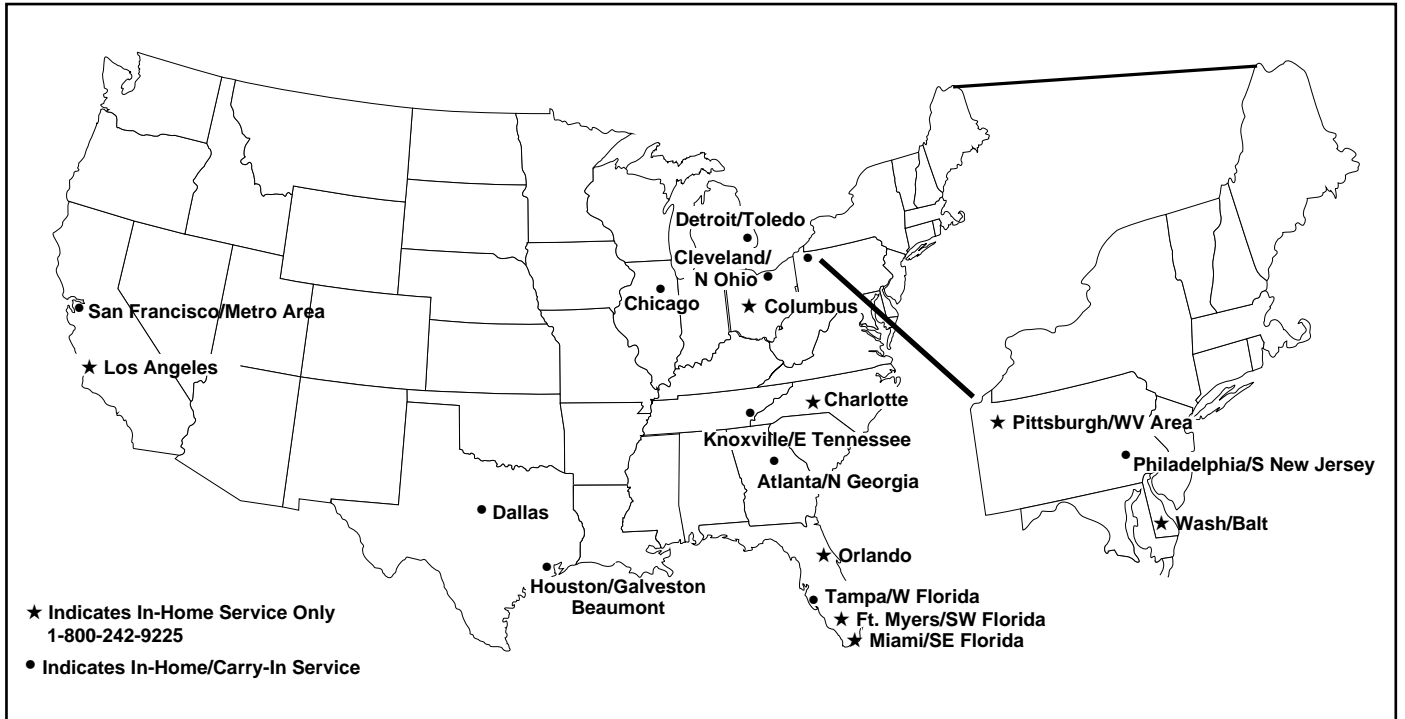
Twin Lead Wire • The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.



Accessories/Optional	.....(*Q/U-1)	Programming Channels	.....(*Q/U-4)
Adapter Connector	.....(*Q/U-1)	Registration of your TV	.....2
Add/Delete Channels	.....(*Q/U-4)	Remote Control (Functions/Programming)	....27-35, (*Q/U-2)
Alternate Channel	.....30	Remote Control Programming Codes List	.....34-35
Audio/Video Input Jacks	.....25-26	Requesting Service	.....46-48
Audio/Video Output Jacks	.....27	RF Coaxial Cable	.....(*Q/U-1)
Balance Control	.....22	Safety/Precautions	.....3, 43, 48
Bass Control	.....22	Sensor Remote	.....(*Q/U-2)
Battery Installation	.....(*Q/U-2)	Set Up/First Time Use	.....(*Q/U-1, 2, 3, 4)
Cable TV Connections/Settings	.....(*Q/U-1, 3)	Sleep Timer	.....14
Channel Memory	.....(*Q/U-4)	SmartLock Access Code Feature	.....16
Clock Set Time	.....9	SmartLock Block Channel Feature	.....17
Closed Captioning	.....13	SmartLock Blocking Options	.....18
Contrast Plus (Black Stretch) Control	.....7	SmartLock Blocking using the Movie/TV Ratings	....19-20
Controls/TV	.....(*Q/U-2)	SmartLock Review	.....21
Controls/Remote	.....28-36, (*Q/U-2)	SmartLock - Understanding the SmartLock Control	.....15
External Control	.....(*Q/U-4)	SmartPicture Control	.....28
Features	.....5	SmartSound Control	.....29
Glossary TV Terms	.....44	SmartSurf	.....30
Incredible Surround Control	.....22	Sound Control (Stereo/Mono)	.....24
Input Control	.....25	Start-up Channel Control	.....11
Language Option	.....(*Q/U-3)	Start-up Time Control	.....12
Memory/Program Channels	.....(*Q/U-4)	Status/Exit Button	.....(*Q/U-2)
Menu Button	.....36, (*Q/U-2)	Table of Contents	.....4
Minus(-)/Plus (+) Buttons	.....36, (*Q/U-2)	Timer Control	.....10
Picture Controls	.....6	Tips for Service	.....43, 46-48
Picture Noise Reduction	.....8	Treble Control	.....22
PIP Connections	.....37, 41-42	VCR/TV Connections	.....25, (*Q/U-1)
PIP Features	.....39	Volume Bar Control	.....23
PIP Source	.....38	Warranty	.....48
PIP Tint Adjustment	.....40		
Precautions/Safety	.....3, 43, 48		

* Information contained in Quick-Use (Q/U) Guide-page listed.

Philips Consumer Electronics Company Factory Service Center Locations



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product
Please contact Philips at
1-800-661-6162 (French speaking)
1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile
Veuillez contacter philips à:
1-800-661-6162 (Francophone)
1-800-363-7278

En el Canadá

Cómo recibir servicio eficiente para su producto, en persona, por correo o a domicilio
Favor de comunicarse con Philips al:
1-800-661-6162 (francófono)
1-800-363-7278 (anglófono)

QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE. AND, IF THE PHONE NUMBER LISTED FOR YOUR AREA IS LONG DISTANCE, CALL 1-800-242-9225 FOR FACTORY SERVICE.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

GEORGIA

Philips Factory Service of Georgia
200 N. Cobb Pkwy., Suite 120
Marietta, GA 30062
(770) 795-0085

FLORIDA

Philips Factory Service of Florida
1911 US Highway 301 North
Tampa, FL 33619
(813) 621-8181

WESTERN U.S.A.

Philips Factory Service Western Region
681 East Brokaw Rd.
San Jose, CA 95112
(408) 436-8566

TEXAS

Philips Factory Service of Texas
1110 N. Post Oak Rd., Suite 100
Houston, TX 77055
(713) 682-3990

CENTRAL U.S.A.

Philips Factory Service Central US
950 Keynote Circle
Brooklyn Heights, OH 44131
(216) 741-3334

MICHIGAN

Philips Factory Service of Michigan
25173 Dequindre
Madison Heights, MI 48071
(248) 544-2110

DALLAS AREA

Philips Factory Service of Dallas
415 N. Main Street, #107
Euless, TX 76040
(713) 682-3990

ILLINOIS

Philips Factory Service of Illinois
1279 W. Hamilton Pkwy.
Itasca, IL 60143
(630) 775-0990

TENNESSEE

Philips Factory Service of East Tennessee
6700 D Papermill Rd.
Knoxville, TN 37919
(423) 584-6614

MID-ATLANTIC

Philips Factory Service Mid-Atlantic
352 Dunks Ferry Rd.
Bensalem, PA 19020
(215) 638-7500

LIMITED WARRANTY

COLOR TELEVISION

90 Days Free Labor

One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube)

This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For 90 days thereafter*, all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Consumer Electronics Company, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

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