

Instructions for use



Let's make things better.



PHILIPS

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS 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 warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

<u>Model</u> Registration

Returning your Warranty
Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your purchase, and welcome to the "family!"

PHILIPS



Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. 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 "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 product. Sincerely,



Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS 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.

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.
- Retain Instructions The safety and operating instructions should be retained for future reference.
- Heed Warnings All warnings on the appliance and in the operating instructions should be adhered to.
- 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.
- 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.
- 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.
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 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.
- 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
 - 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.

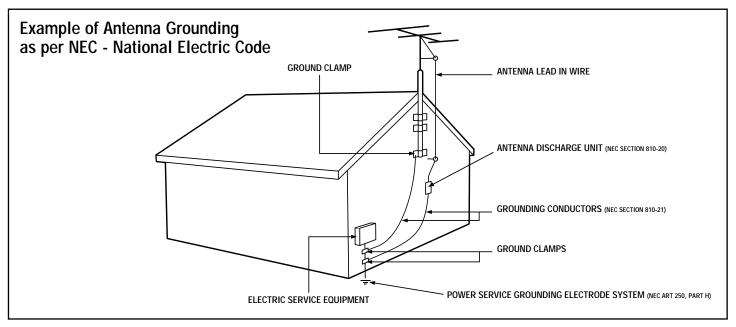


TABLE OF CONTENTS

T / T /
Introduction
♦ Welcome/Registration of Your TV
\$Safety/Precautions
♦ Table of Contents
♦ Features
ONSCREEN MENU
Picture
♦ Adjusting the Picture
♦ Turning ON the Dynamic Noise Reduction
Control
♦ Turning ON the ImageMax TM Control
Features
♦ Using the Closed Captioning Control
♦ Using the Format (Screen) Control9
♦ Activating the Blue Mute Control10
♦ Using the Sleep Timer Control
The Timer Feature
♦ The Timer – Setting the Clock
♦ The Timer – Setting the Start Time
♦ The Timer – Setting the Stop Time
♦ The Timer – Selecting the Channel
♦ The Timer – Setting Activate to ON or OFF
♦ The Timer – Turning ON the Timer Display17
The AutoLock TM Feature
\$\times \text{Understanding AutoLock}^{TM} \tag{18}
♦ AutoLock TM – Setting Up the Access Code
♦ AutoLock TM – Blocking Channels
♦ AutoLock TM – Blocking by Movie Rating
\$\phi\atta\text{LTV} - Blocking by TV Rating
♦ AutoLock TM – Turning Block ON or OFF
♦ AutoLock TM – Blocking Unrated
Broadcasts
♦ AutoLock TM – Blocking Broadcasts That
Have No Rating25
♦ AutoLock TM – Reviewing Your Settings
♦ AutoLock TM – Viewing Blocked
Programming27
Sound
\Rightarrow Sound – Adjusting the Treble, Bass, and
and Balance
♦ Sound – Setting the Volume
♦ Sound – Using the AVL (Audio Volume
Leveler)
♦ Sound – Using Incredible Surround
♦Sound – Setting the TV for Stereo and
SAP (Second Audio Program)
♦ Sound – Setting the Audio Out Control
♦ Sound – Using the TV Speaker Control
and Audio Output Jacks
♦ Sound – Using the Surround Sound
External Speaker Connections
♦ Sound – Using the Audio/Video
_
Input Jacks

Remote Control Operation
♦ Remote Control – Using AutoPicture™39
♦ Remote Control – Using AutoSound TM 40
♦ Remote Control – Using Channel Surf41
♦ Remote Control – Operating Accessory Devices
(Direct Access)
♦ Remote Control – Operating Accessory Devices
(Code Entry)
♦ Remote Control – Operating Accessory Devices
(Search)
Numbers
Buttons
General Information
♦ Troubleshooting
♦ Glossary of Television Terms
♦ Index50
♦ Factory Service Locations
♦ Limited Warranty

NOTE: This owner's manual 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 that you contact your dealer or request service.

AutoChron, AutoLock, AutoPicture, AutoSound, M-Link, and ImageMax are trademarks of Philips Consumer Electronics Company.

Copyright © 2000 Philips Consumer Electronics Company.

All rights reserved.

FEATURES

Audio/Video Jack Panel allows direct connections with VCRs, DVDs, or other devices, providing quality TV picture and sound playback.

Audio Volume Leveler (AVL) Control keeps the TV sound at an even level. Peaks and valleys that occur during program changes or commercial breaks are reduced, making for a more consistent, comfortable sound.

AutoChron™ automatically sets the right time of day and maintains it with digital precision through brownouts, power failures, and even Daylight Savings Time adjustments.

AutoLock™ allows you to block the viewing of certain channels or programs with certain ratings if you do not want your children to view inappropriate materials.

Auto Programming scans (when activated) for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

AutoPictureTM allows you to change the picture settings (color, tint, contrast, etc.) for various types of programming, such as sports, movies, multimedia (games), or weak signals with the push of one button.

AutoSoundTM allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls (Voice, Music, and Theatre) enable you to tailor the TV sound so as to enhance the particular programming you are watching.

Channel Edit allows you to add or delete channels from the list stored in the TV's memory. Channel Edit makes it easy to limit or expand the number of channels that are available to you when you press the Channel (+) or (-) buttons on your remote control.

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

ImageMax™ helps you sharpen the picture quality by making dark portions of the picture darker and light portions brighter.

Infrared Remote Control works your TV and other remote-controlled devices, such as VCRs, DVD players, cable converters, and satellite receivers.

Onscreen Menu shows helpful messages and instructions for setting TV feature controls (can be viewed in English, French, or Spanish).

Sleep Timer automatically turns the TV OFF after a set amount of time that you choose.

Standard Broadcast (VHF/UHF) or Cable TV (CATV) channel capability allows for viewing by antenna or cable.

Stereo capability, including a built-in audio amplifier and twin-speaker system, allows for the reception of TV programs broadcast in stereo sound.

Surf Button allows you to easily switch among only the channels that are of interest to you (the ones that you have programmed into the TV's Surf control through the onscreen menu).

Timer allows you to set your TV to turn itself ON and OFF once or daily like an alarm clock.

QUICK USE AND INSTALLATION GUIDE

Use the simple *Quick Use and Installation Guide* (supplied with your TV information packet) for details on:

- Cable/Antenna Hookups
- Automatic Channel Programming
- Channel Editing
- Setting the TV's Clock Automatically (AutoChronTM)
- Basic Operation of the TV and Remote Control
- Selection of the Onscreen Menu Language

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 that need to be properly disposed.

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

When you replace your existing equipment, please find out about the local regulations regarding disposal of your old television, batteries, and packing materials.

ADJUSTING THE PICTURE

 T^{b} adjust your TV picture controls, select a channel and follow these steps.

(BEGIN)

- Press the MENU button on the remote control to show the onscreen menu. PICTURE will be highlighted.
- Press the CURSOR RIGHT button and the menu will shift to the left.

 BRIGHTNESS will be highlighted and an adjustment bar will be shown to the right.
- 3 Use the CURSOR LEFT or CURSOR RIGHT button to adjust the BRIGHTNESS level of the picture.
- After adjusting the BRIGHTNESS control, press the CURSOR DOWN button to select another picture adjustment: COLOR, PICTURE, SHARPNESS, TINT, OR COLOR TEMP. Press the CURSOR LEFT or CURSOR RIGHT button to adjust the selected control.

NOTE: The menu will show only five items at a time, so you will need to continue scrolling with the CURSOR DOWN button to adjust the TINT and COLOR TEMP.

5 Press the STATUS/EXIT button to remove the menu from the screen.



Remember, when the bar scale is centered , the control settings are at normal, mid-range levels. Picture adjustments are described here.

BRIGHTNESS – adds or subtracts light from the darkest part of the picture.

COLOR - adds or eliminates color.

PICTURE – improves the detail of the lightest parts of the picture.

SHARPNESS – improves the detail in the picture.

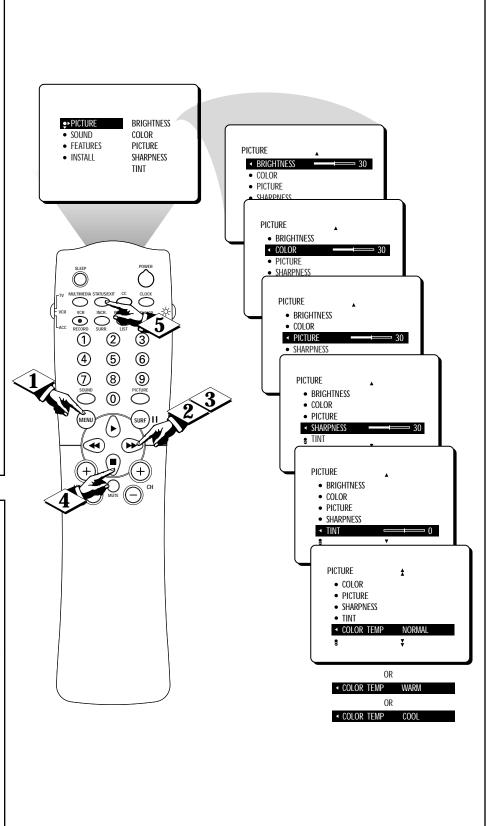
TINT – adjusts the picture to obtain natural skin tones.

COLOR TEMP offers NORMAL, COOL, or WARM picture preferences.

NORMAL – keeps whites, white.

COOL - makes whites, bluish.

WARM – makes whites, reddish.



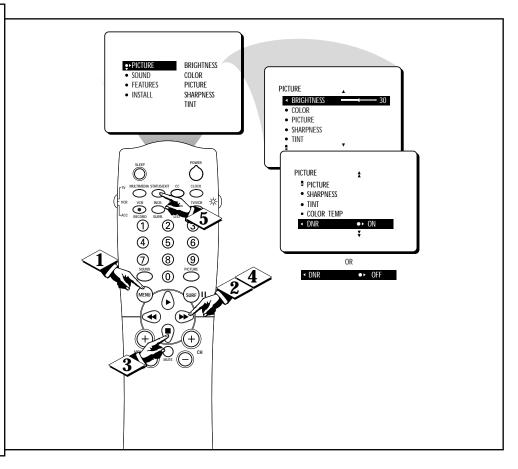
TURNING ON THE DYNAMIC NOISE REDUCTION CONTROL

Due to many reasons, such as poor cable reception, the picture can sometimes appear slightly "speckled" (an indication of signal noise in the picture). The DNR (Dynamic Noise Reduction) control can help eliminate this type of interference and improve the quality of the picture.

(BEGIN)

- Press the MENU button on the remote to show the onscreen menu. PICTURE will be highlighted.
- 2 Press the CURSOR RIGHT button and the menu will shift to the left. BRIGHTNESS will be highlighted.
- 3 Press the CURSOR DOWN button repeatedly until the DNR control is highlighted.
- 4 Press the CURSOR RIGHT button to switch DNR ON or press the CURSOR LEFT button to switch DNR OFF.
- Press the STATUS/EXIT button to remove the menu from the screen.



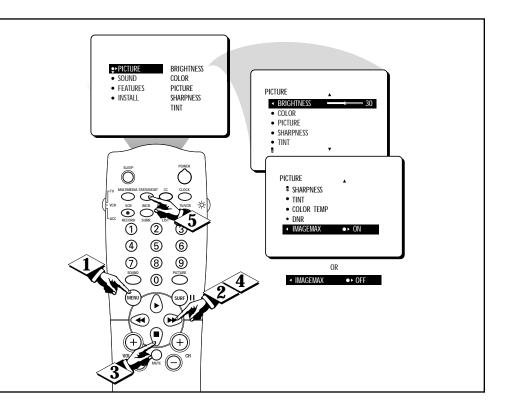


TURNING ON THE IMAGEMAXTM CONTROL

ImageMax[™] helps you sharpen the picture quality by making dark portions of the picture darker and light portions of the picture brighter. Follow these steps to turn ImageMax[™] ON.

- Press the MENU button on the remote control to show the onscreen menu. PICTURE will be highlighted.
- 2 Press the CURSOR RIGHT button and the menu will shift to the left. BRIGHTNESS will be highlighted.
- 3 Press the CURSOR DOWN button repeatedly until the IMAGEMAX control is highlighted.
- 4 Press the CURSOR RIGHT button to switch between ON and OFF.
- Press the STATUS/EXIT button to remove the menu from the screen.





USING THE CLOSED CAPTIONING 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)

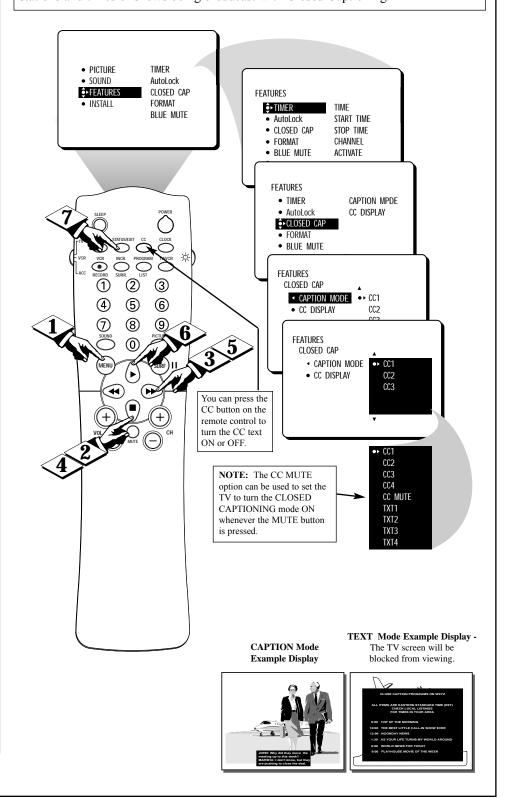
- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEA-TURES.
- 3 Press the CURSOR RIGHT button and the menu will shift to the left.
- 4 Press the CURSOR DOWN button repeatedly until the CLOSED CAP control is highlighted.
- button again. The menu will shift to the left and CAPTION MODE will be highlighted. Then press the CURSOR RIGHT button to highlight CAPTION MODEs.
- 6 Press the CURSOR UP or CURSOR DOWN button to select a CAPTION MODE: CC1, CC2, CC3, CC4, CMUTE, TXT1, TXT2, TXT3, or TXT4. CC DIS-PLAY turns text OFF or ON if the TV station broadcasting on the channel is making CLOSED CAPTIONING available. With CC DIS-PLAY highlighted, press the CURSOR RIGHT button to toggle Closed Captioning ON or OFF.

NOTE: You also can press the CC button on the remote control to turn the CC TEXT option ON or OFF.

7 Press the STATUS/EXIT button to remove the menu from the screen.



NOTE: Not all TV programs and product commercials are broadcast with Closed Captioning (CC). Nor are all Closed Captioning MODEs (CAPTION 1–4 or TEXT 1–4) necessarily being used by broadcast stations during the transmission of a program offering Closed Captioning. Refer to your area's TV program listings for the stations and times of shows being broadcast with Closed Captioning.



SELECTING THE SCREEN FORMAT SIZE

You can change the screen format size to match the type of program you're watching. Select the normal 4:3 aspect ratio or expand the 4:3 aspect ratio to completely fill the screen. There also is a compressed 16:9 aspect ratio, which allows movies to be viewed in their full width (known as letterbox style).

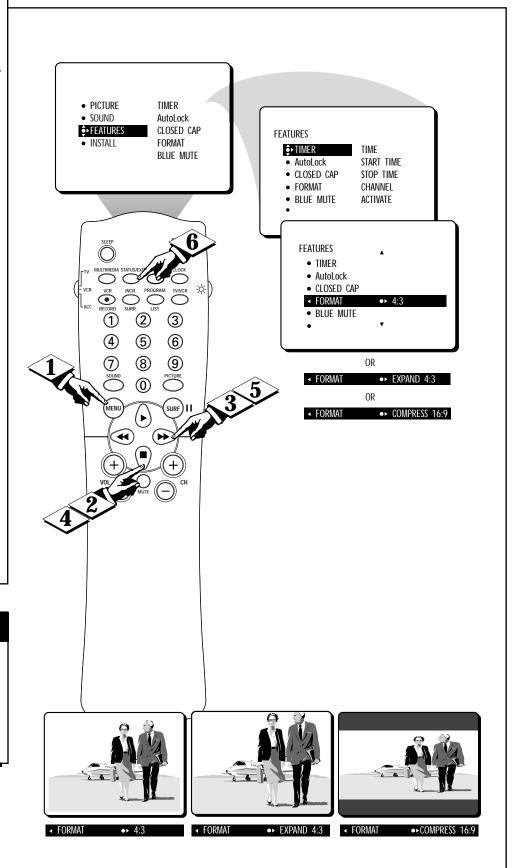
(BEGIN)

- the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEATURES.
- 3 Press the CURSOR RIGHT button and the menu will shift to the left.
- 4 Press the CURSOR DOWN button repeatedly until the FOR-MAT control is highlighted.
- button repeatedly to toggle among the three screen format sizes 4:3, EXPAND 4:3, or COMPRESS 16:9.
- 6 Press the STATUS/EXIT button to remove the menu from the screen.

STOP

SMART HELP

Without the onscreen menu display showing, you also can press the CURSOR UP or CURSOR DOWN button on the remote control to toggle among the screen sizes 4:3, Expand 4:3, or Compress 16:9.

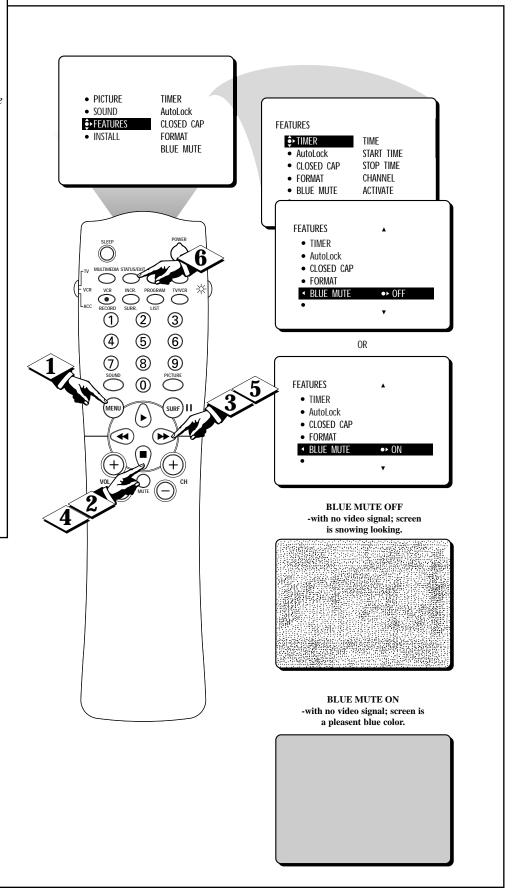


ACTIVATING THE BLUE MUTE CONTROL

The Blue Mute feature will eliminate annoying snow from the screen when no video signal is present by displaying a pleasent blue screen. This occurs in cases such as when a VCR tape is removed or an antenna signal is broken. To turn the Blue Mute feature ON or OFF, follow the steps below.

- 1 Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEATURES.
- 3 Press the CURSOR RIGHT button and the menu will shift to the left.
- 4 Press the CURSOR DOWN button repeatedly until the BLUE MUTE control is highlighted.
- button repeatedly to toggle the Blue Mute option ON or OFF.
- 6 Press the STATUS/EXIT button to remove the menu from the screen.





USING THE SLEEP TIMER

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 sound screeching in your ears? Well, your TV can enable you to avoid that discomfort by automatically turning itself off. With the Sleep Timer feature, you can set a timer to automaticaly swtich the TV OFF after a period of time you choose (15-minute increments up to 90 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes).

(BEGIN)

Press the SLEEP button on the remote control. The SLEEP timer onscreen display will appear in the upper part of the screen.

Within five seconds, press the SLEEP button repeatedly to pick the amount of time (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes) before the TV will turn itself off.

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

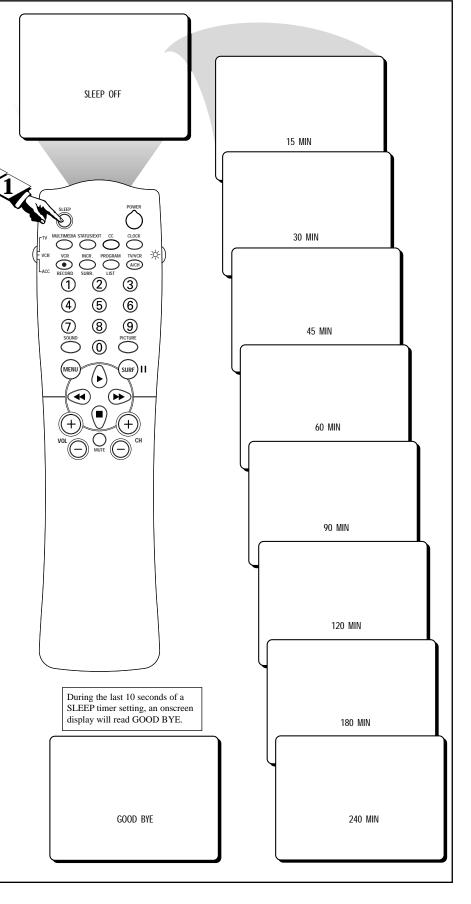


SMART HELP

To see how many minutes remain before the TV shuts itself off, press the STA-TUS/EXIT button.

During the last minute of a SLEEP timer setting, an onscreen countdown will be displayed.

50 SEC



THE TIMER – SETTING THE 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 if the TIMER DISPLAY control is turned ON.

BEGIN

- Press the MENU button on the remote control to show the onscreen menu.
- Press the CURSOR DOWN button twice to highlight FEATURES.
- 3 Press the CURSOR RIGHT button and the menu will shift to the left. TIMER will be highlighted.
- With TIMER selected, press the CURSOR RIGHT button again to shift the display left and highlight the TIME control.
- 5 Press the CURSOR RIGHT button again to highlight the time indicator area.
- 6 Press the CURSOR LEFT or CURSOR RIGHT button to select the position or digit you wish to enter.
- Press the CURSOR UP or CURSOR DOWN button to select the digits for the time. Or press the NUMBERED buttons to enter the correct time.
- 8 Press the CURSOR RIGHT button to move to the AM or PM position.
- 9 Press the CURSOR UP or DOWN button to set AM or PM.
- Press the STATUS/EXIT button to remove the menu from the screen.

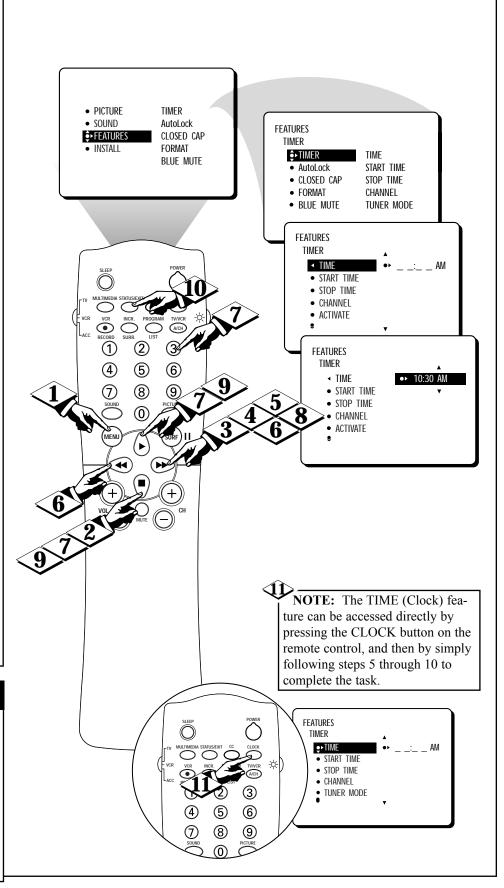


SMART HELP

Remember, be sure to press 0 first and then the hour number for single-digit entries.

The Clock also can be set automatically using the AutoChronTM feature found on page 4 of the *Quick Use* and *Installation Guide* that came with your television.

The TV's clock settings may be lost when the TV is unplugged (or when AC power to the set is interrupted).

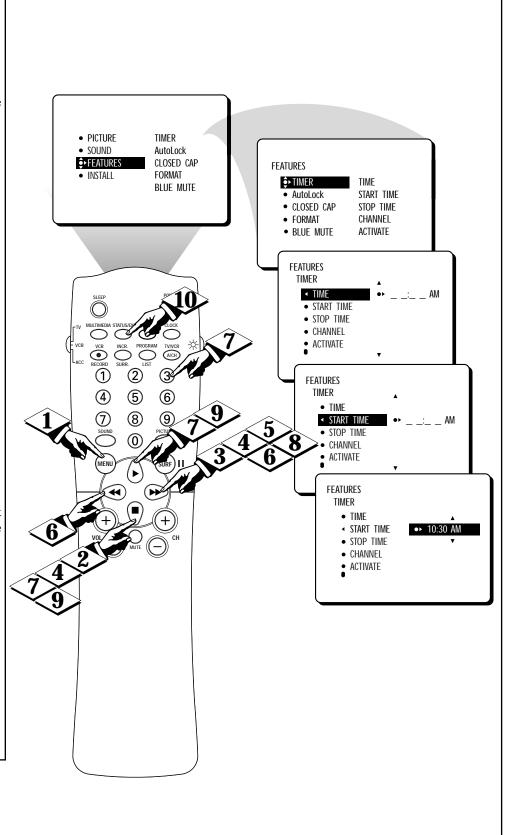


THE TIMER – SETTING THE START TIME

Just as you would an alarm clock, you can set the TV to turn itself ON once or at the same time every day. Follow these steps to set the Start Time.

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEA-TURES.
- Press the CURSOR RIGHT button and the menu will shift to the left. TIMER will be highlighted.
- button again to shift the display left. Then press the CURSOR DOWN button once to highlight the START TIME control.
- 5 Press the CURSOR RIGHT button again to highlight the time indicator area.
- 6 Press the CURSOR RIGHT or CURSOR LEFT button to move among the positions where the time is input.
- 7 Press the CURSOR UP or CURSOR DOWN button to select the digits for the time. Or press the NUMBERED buttons to enter the correct time.
- 8 Press the CURSOR RIGHT button to move to the AM or PM position.
- Press the CURSOR UP or DOWN button to set AM or PM.
- ton to remove the menu from the screen.

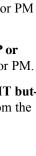


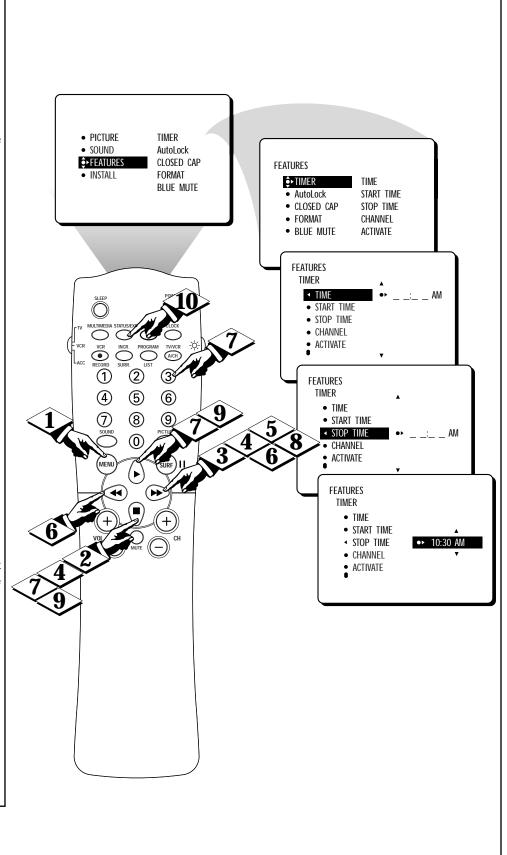


THE TIMER – SETTING THE STOP TIME

Jse the START TIME control to set the TV to turn itself ON once or at the same time every day (see page 13 for details). The following steps will guide you in setting the TV to turn itself OFF once or at the same time every day.

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEATURES.
- 3 Press the CURSOR RIGHT button and the menu will shift to the left. TIMER will be highlighted.
- Press the CURSOR RIGHT button again to shift the display left. Then press the CURSOR DOWN button once twice to highlight the STOP TIME control.
- button again to highlight the time indicator area.
- 6 Press the CURSOR RIGHT or CURSOR LEFT button to move among the positions where the time is input.
- 7 Press the CURSOR UP or CURSOR DOWN button to select the digits for the time. Or press the NUMBERED buttons to enter the correct time.
- 8 Press the CURSOR RIGHT button to move to the AM or PM position.
- 9 Press the CURSOR UP or DOWN button to set AM or PM.
- ton to remove the menu from the screen.



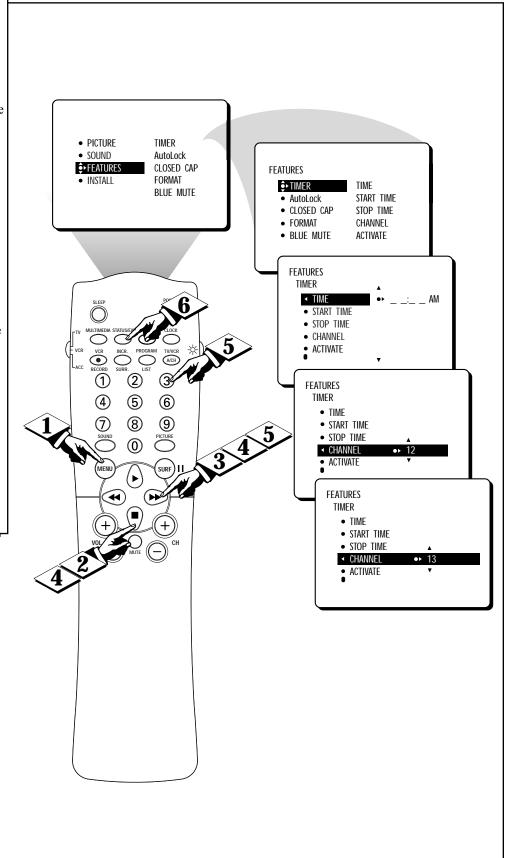


THE TIMER – SELECTING THE CHANNEL

You can select a specific channel that the television will tune to when the timer turns the set ON. Follow these steps to select the channel.

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEA-TURES.
- **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
- button again to shift the menu to the left. Then press the CURSOR DOWN button repeatedly until the CHANNEL control is highlighted.
- tons to enter the desired start-up channel. Or, press the CURSOR RIGHT button repeatedly to enter the start-up channel you want.
- 6 Press the STATUS/EXIT button to remove the menu from the screen.





THE TIMER – SETTING ACTIVATE TO ON OR OFF

After you have set the Time, Start Time, Stop Time, and Start Channel, the timer must be set to come on ONCE or DAILY, or turned OFF through the ACTIVATE control.

(BEGIN)

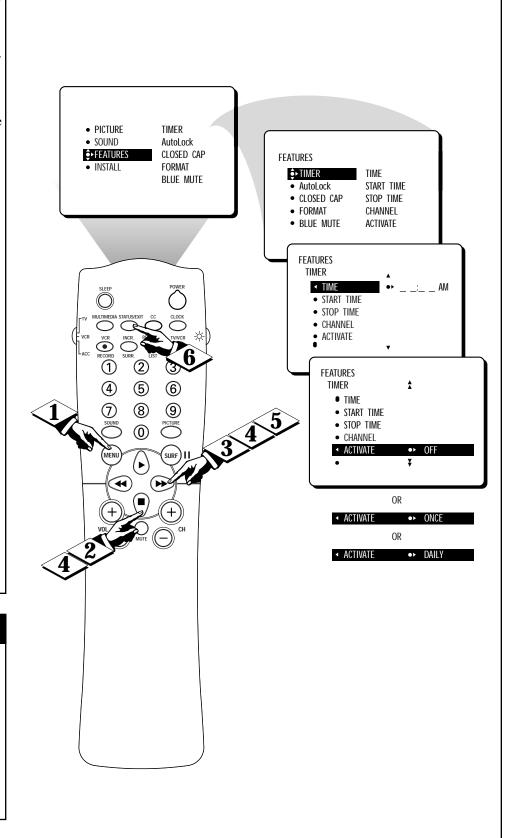
- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEATURES.
- Press the CURSOR RIGHT button and the menu will shift to the left. TIMER will be highlighted.
- 4 Press the CURSOR RIGHT
 button again to shift the display to
 the left. Then press the CURSOR
 DOWN button repeatedly until the
 ACTIVATE control is highlighted.
- button again to set ACTIVATE to ONCE; press the CURSOR RIGHT button again for DAILY; and press the CURSOR RIGHT button again to toggle ACTIVATE to OFF.
- 6 Press the STATUS/EXIT button to remove the menu from the screen.



SMART HELP

Remember, before setting the TIMER controls, the TV's clock must be set to the correct time manually (see page 12) or by using the AutoChronTM feature described on page 4 of the Ouick Use and Installation Guide.

Try it! After following the steps on pages 12-17, use your TV as an alarm clock.



THE TIMER – TURNING ON THE TIMER DISPLAY

After the TV's clock has been set, you can use your TV as a clock. The TIMER DISPLAY control allows you to permanently display the time in the upper right corner of the screen.

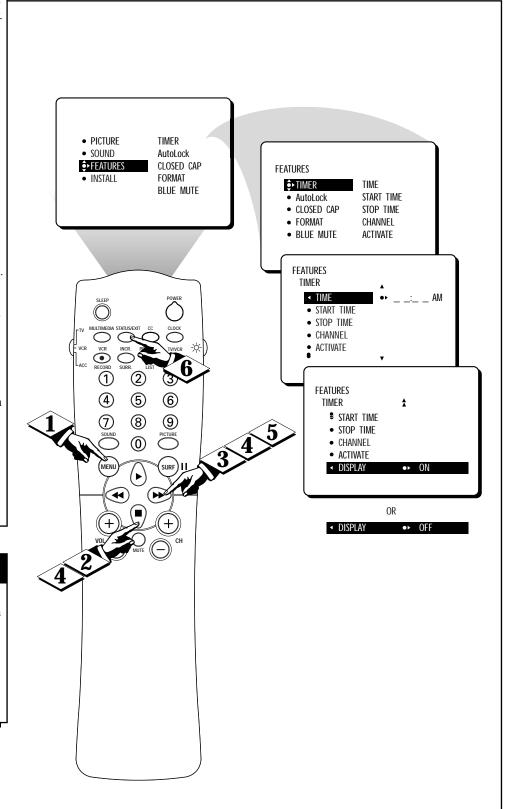
(BEGIN)

- the remote to show the onscreen menu.
- Press the CURSOR DOWN button twice to highlight FEATURES.
- button and the menu will shift to the left. TIMER will be highlighted.
- 4 Press the CURSOR RIGHT button again to shift the menu left. Then press the CURSOR DOWN button repeatedly until the DIS-PLAY control is highlighted.
- 5 Press the CURSOR RIGHT or CURSOR LEFT button to turn the TIMER DISPLAY ON or OFF.
- 6 Press the STATUS/EXIT button to remove the menu from the screen.



SMART HELP

Remember, be sure you have set the TV's clock with the correct current time. (Refer to page 12 to set the clock manually or page 4 of the Quick Use and Installation Guide to set the clock automatically using the AutoChronTM feature.)



UNDERSTANDING AUTOLOCKTM

The AutoLock™ feature receives and processes data sent by broadcasters or other program providers that contain program content advisories. When programmed by the viewer, a TV with AutoLock™ 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 programming children may watch.

In the AutoLockTM section, you'll learn how to block channels and programming that is not rated, is unrated, or has no rating. You will also find out how to turn these blocking features ON or OFF. Following are brief explanations of some terms and ratings related to the AutoLockTM feature.

AutoLockTM offers various Blocking Options from which to choose:

BLOCKING: The BLOCKING control is what can be thought of as the "master switch" for AutoLock™. This control affects the settings you have chosen for blocking programs according to movie ratings or TV ratings, or for blocking programs that have no rating or are unrated. When the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen.

BLOCK UNRATED: ALL unrated programs will be blocked if this feature is set to ON.

UNRATED programming is encoded with information from the MPAA (Motion Picture Association of America) or TV broadcasters, but it does not have a specific rating. In other words, the MPAA or the TV broadcasters have chosen not to assign a rating to the programming.

NO RATING: ALL programming with no content advisory data can be blocked if NO RATING is set to ON.

Programming that has No Rating is not encoded with any rating information from the MPAA or the Parental Guidelines. Any programming could fall into this category.

You also can block individual channels or block programming based on ratings of the MPAA and TV broadcasters. (See a description of the ratings on this page.)

AutoLock

MOVIE RATING

G
PG
PG-13
R
NC-17

MOVIE RATINGS

(MOTION PICTURE ASSOCIATION OF AMERICA)

G: General Audience - All ages admitted. Most parents would find this programming suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or sexual 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 programming is specifically designed for adults. Anyone under the age of 17 should view this programming only 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 ages 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 sexual 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).

AUTOLOCKTM – SETTING UP THE ACCESS CODE



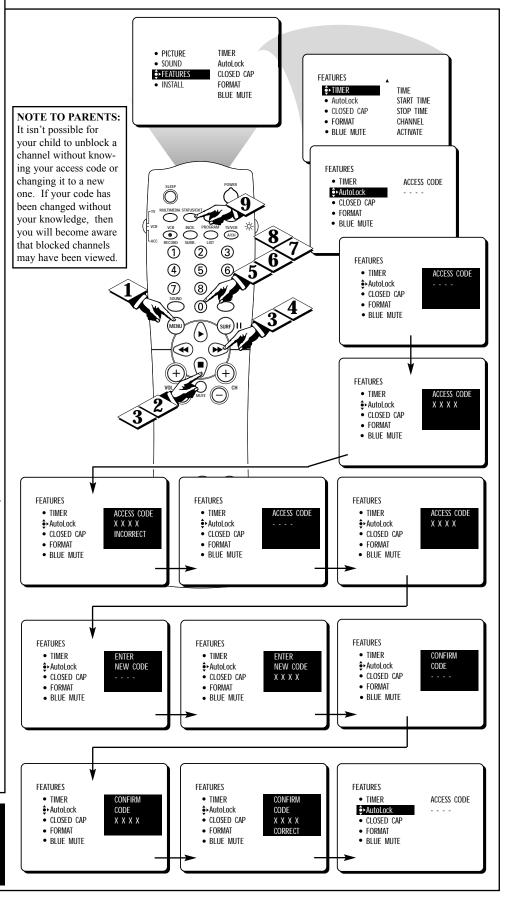
AutoLock™ allows parents to block out or "censor" any channels they think children should not watch. A channel blocked by the AutoLock™ control cannot be viewed until a correct access code is used to unlock the channel for viewing. First, let's set your AutoLock access code.

(BEGIN)

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEA-TURES.
- 3 Press the CURSOR RIGHT button and the menu will shift to the left. Then press the CURSOR DOWN button once to highlight the AutoLock control.
- 4 Press the CURSOR RIGHT button to highlight ACCESS CODE.
- 5 Press 0,7,1,1 on the remote control. *INCORRECT* will appear on the screen.
- 6 Press 0,7,1,1 on the remote control again. ENTER NEW CODE will appear on the screen.
- The Enter a new four-digit code using the number buttons. CONFIRM CODE will appear on the screen.
- 8 Enter your new four-digit code again. CORRECT will flash on the screen briefly and the highlight bar goes back to AutoLock.
- 9 Press the STATUS/EXIT button to remove the menu from the screen.



Remember that 0711 is the default AutoLock™ code. If your access code has been changed by someone other than you (a child, for example) or you have forgotten the code, you can always get in by inputting the default code.



AUTOLOCKTM – BLOCKING CHANNELS

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

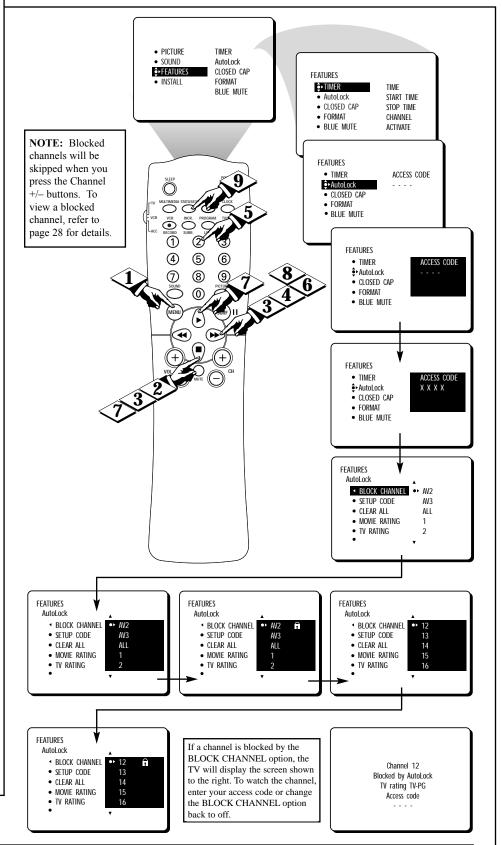
(BEGIN)

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEA-TURES.
- 3 Press the CURSOR RIGHT button and the menu will shift to the left. Then press the CURSOR DOWN button once to highlight the AutoLockTM control.
- 4 Press the CURSOR RIGHT button again to highlight ACCESS CODE.
- ACCESS CODE. CORRECT will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.
- 6 Press the CURSOR RIGHT button to highlight the TV's available channels.
- 7 Press the CURSOR UP or CURSOR DOWN button to highlight the channel you want to block.
- **8** Press the CURSOR RIGHT button to block the channel. A padlock image appears to the right of the channel number.

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

9 Press the STATUS/EXIT button to remove the menu from the screen.





NOTE: You also can block out the use of the A/V external inputs on the rear of the TV. This stops the viewing of VCR, DVD, and other sources that can be shown through the A/V input jacks. Select AV1, AV2, or AV3 and then select BLOCK.

AUTOLOCKTM – BLOCKING BY MOVIE RATING



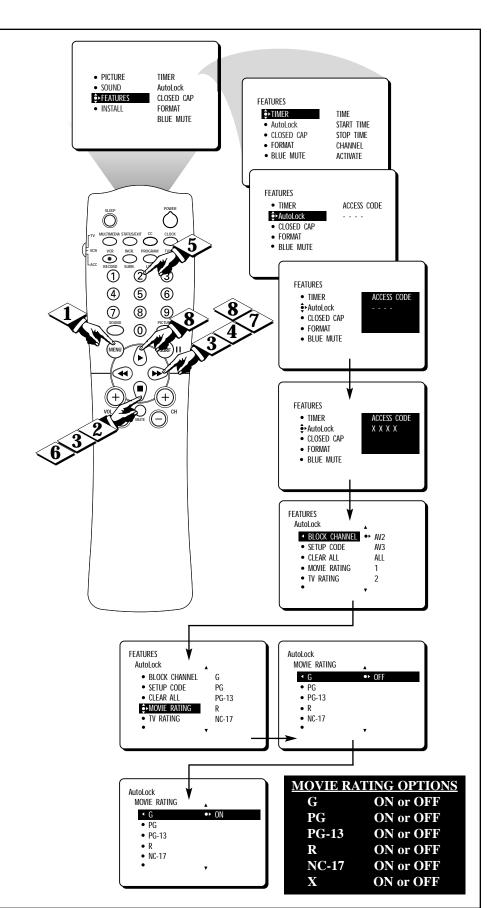
After your personal access code has been set (see page 19), you can select specific movie ratings that you want to censor.

(BEGIN)

- 1 Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEATURES.
- button and the menu will shift to the left. Then press the CURSOR DOWN button once to highlight the AutoLock control.
- 4 Press the CURSOR RIGHT button again to highlight ACCESS CODE.
- ACCESS CODE. CORRECT will flash very briefly in red and the menu will move to the left with BLOCK CHANNEL highlighted.
- 6 Press the CURSOR DOWN button repeatedly until MOVIE RATING is highlighted.
- Press the CURSOR RIGHT button and the Rating menu shifts to the left with G highlighted.
- 8 Press the CURSOR UP or CURSOR DOWN button to high-light each rating you want. Then press the CURSOR RIGHT button to turn the rating ON or OFF. Turning the rating ON will block programs with that rating from being seen.
- 9 Press the STATUS/EXIT button to remove the menu from the screen.

NOTE: When a rating is turned ON, all higher ratings also will be turned on automatically. For example, if the *R* rating is turned on, the *NC-17* and *X* ratings also will be turned on.

STOP



AUTOLOCKTM – BLOCKING BY TV RATING

You also can select specific TV ratings that you want to censor by following these steps.

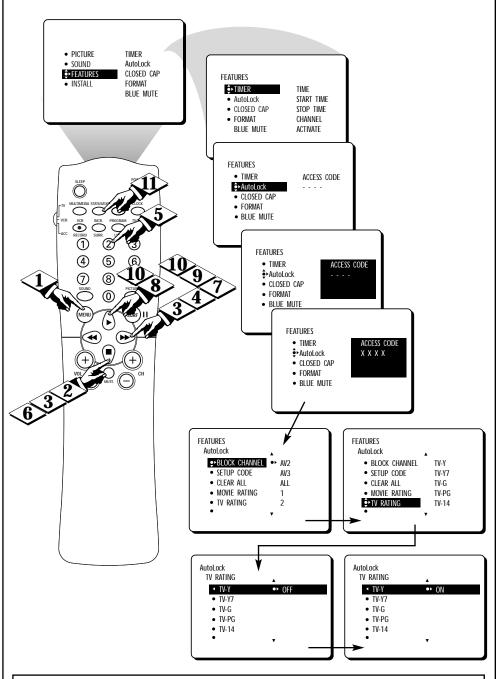
(BEGIN)

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEATURES.
- Down button once to highlight the AutoLock control.
- 4 Press the CURSOR RIGHT button again to highlight ACCESS CODE.
- 5 Enter your four-digit ACCESS
 CODE and the menu will move to
 the left with BLOCK CHANNEL
 highlighted.
- 6 Press the CURSOR DOWN button repeatedly until TV RAT-ING is highlighted.
- Press the CURSOR RIGHT button and the menu will shift to highlight the TV RATING options.
- 8 Press the CURSOR UP or DOWN button to select a rating.
- Press the CURSOR RIGHT or LEFT button to turn the block on the rating ON or OFF.

NOTE: More specific subratings (for violence, sexual content, dialogue, or fantasy violence) are available for TV-Y7, TV-PG, TV-14, and TV-MA.

- the CURSOR RIGHT button.
 Press the CURSOR UP or DOWN button to select the subrating that you want to block or unblock. Then press the CURSOR RIGHT or CURSOR LEFT button to turn the block on the subrating ON or OFF.
- Press the STATUS/EXIT button to remove the menu.





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: Opirected 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).

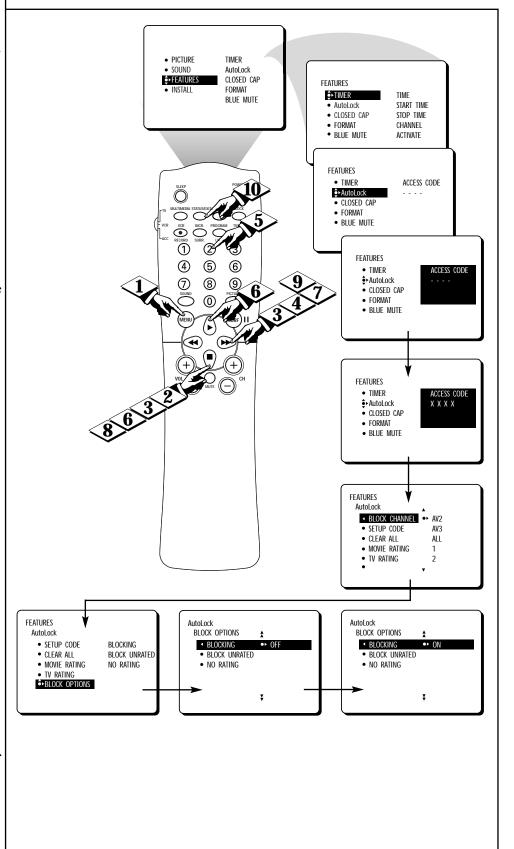
AUTOLOCKTM – TURNING BLOCK ON OR OFF



The BLOCKING control is what $m{\ell}$ can be thought of as the "master switch" for AutoLockTM. This control affects the settings you have chosen for blocking programs according to movie ratings or TV ratings, or for blocking programs that have no rating or are unrated. When the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen. Follow these steps to toggle BLOCKING OFF or ON.

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEA-TURES.
- button and the menu will shift to the left. Then press the CURSOR DOWN button once to highlight the AutoLock control.
- 4 Press the CURSOR RIGHT button again to highlight ACCESS CODE.
- ACCESS CODE and the menu will move to the left with BLOCK CHANNEL highlighted.
- 6 Press the CURSOR DOWN button repeatedly until BLOCK OPTIONS is highlighted.
- The state of the Press the CURSOR RIGHT button to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
- 8 Press the CURSOR RIGHT or LEFT button to toggle BLOCK-ING ON or OFF.
- 9 Press the STATUS/EXIT button to remove the menu.





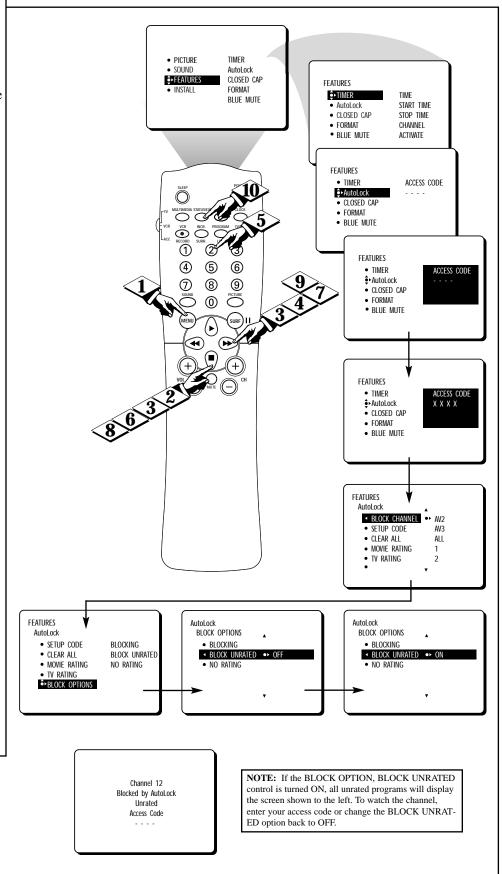


AUTOLOCKTM – BLOCKING UNRATED BROADCASTS

In addition to blocking specific ratings or channels, you may choose to block all programming that is unrated.

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEATURES.
- 3 Press the CURSOR RIGHT button and the menu will shift to the left. Then press the CURSOR DOWN button once to highlight the AutoLock control.
- Press the CURSOR RIGHT button again to highlight ACCESS CODE.
- Enter your four-digit
 ACCESS CODE and the menu
 will move to the left with BLOCK
 CHANNEL highlighted.
- 6 Press the CURSOR DOWN button repeatedly until BLOCK OPTIONS is highlighted.
- Press the CURSOR RIGHT button to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
- 8 Press the CURSOR DOWN button once to select BLOCK UNRATED.
- 9 Press the CURSOR RIGHT or CURSOR LEFT button to toggle BLOCK UNRATED ON or OFF.
- Press the STATUS/EXIT button to remove the menu.





AUTOLOCKTM – BLOCKING BROADCASTS THAT HAVE NO RATING

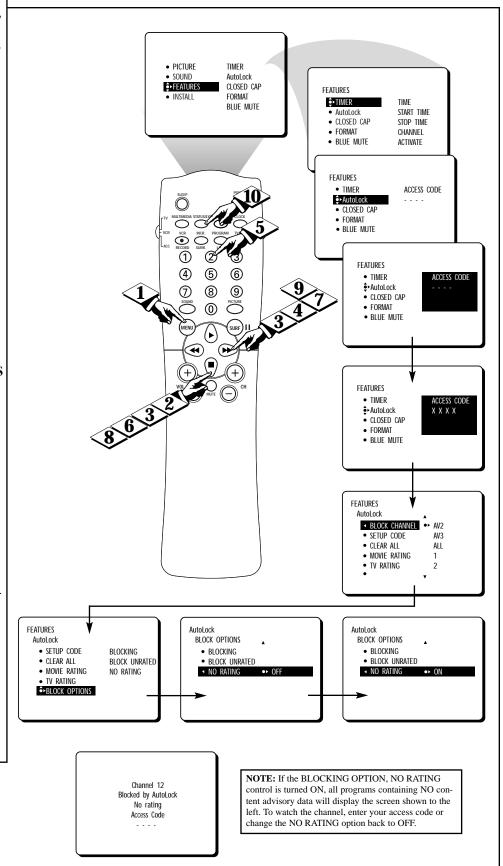


Some programming is not encoded with content advisory data by the MPAA (Motion Picture Association of America) or the television broadcasters (see the explanation on page 18). To block such programming, follow these steps.

- Press the MENU button on the remote to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEA-TURES.
- Down button once to highlight the AutoLock control.
- 4 Press the CURSOR RIGHT button again to highlight ACCESS CODE.
- Enter your four-digit ACCESS

 CODE and the menu will move to the left with BLOCK CHANNEL highlighted.
- 6 Press the CURSOR DOWN button repeatedly until BLOCK OPTIONS is highlighted.
- 7 Press the CURSOR RIGHT button to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
- 8 Press the CURSOR DOWN button twice to highlight NO RAT-ING.
- 9 Press the CURSOR RIGHT or CURSOR LEFT button to toggle NO RATING ON or OFF.
- Press the STATUS/EXIT button to remove the menu.







AUTOLOCKTM – REVIEWING YOUR SETTINGS

T o remind you which ratings you have blocked and which Block Options you have selected, a review screen is available to review your $AutoLock^{TM}$ settings. To access this screen follow the steps below.

(BEGIN)

1 Press the STATUS/EXIT button on your remote control twice.
Your AutoLock™ settings will appear on the screen.

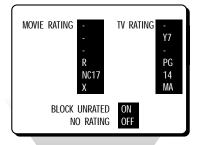
NOTE: If you have blocked specific subratings, such as *V* for Violence in the TV-PG category, these blocked subratings will not appear in the review. The subratings however, are still blocked according to your selections.

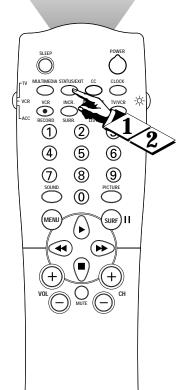
After a few seconds, the settings will leave the screen automatically, or you can **press the**STATUS/EXIT button a third time to remove them from the screen.

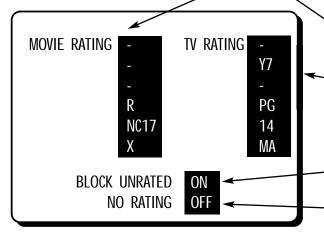


SMART HELP

Remember, the review screen will appear only if BLOCKING is set to ON. For details, see page 23.







MOVIE RATINGS – Shows all blocked movie ratings that were set within the MOVIE RATING feature. Some or all may be blocked at one time. **NOTE:** If a lower rating is blocked, higher ratings also will be blocked automatically (for example, if *R* is set to be blocked, *X* also will automatically be blocked).

TV RATINGS – Shows all blocked TV ratings that were set within the feature. Some or all may be blocked at one time. NOTE: If a lower rating is blocked, higher ratings also will be blocked automatically (for example, if TV-14 is set to be blocked, TV-MA also will automatically be blocked). TV ratings also have subratings for Violence (V), Fantasy Violence (FV), Sexual Situations (S), Coarse Lanuage (L), and Suggestive Language (D). If the main rating is turned OFF but the subrating is turned ON, the program will be blocked; however, the rating will not appear within the AutoLock review menu.

BLOCK UNRATED – Shows ON or OFF, depending on the status of the BLOCK UNRATED feature.

BLOCK NO RATING – Shows ON or OFF, depending on the status of the BLOCK NO RATING feature.

AUTOLOCKTM – VIEWING BLOCKED PROGRAMMING



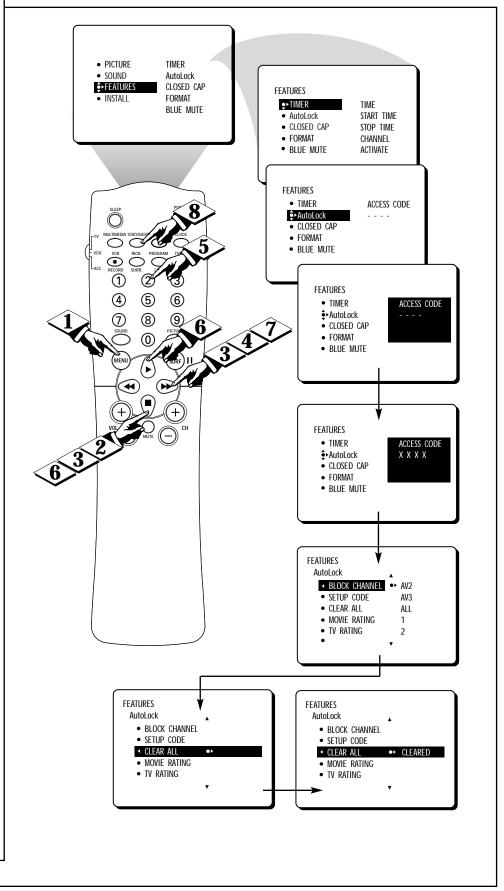
Various onscreen messages will appear when someone tries to view blocked programming. The message is determined by how the current programming is blocked. You may view the blocked programming and turn OFF the AutoLockTM feature by clearing all blocking options or by entering your access code.

(BEGIN)

- Press the MENU button on the remote to show the onscreen menu.
- 2 Press the CURSOR DOWN button twice to highlight FEA-TURES.
- button and the menu will shift to the left. Then press the CURSOR DOWN button once to highlight the AutoLock control.
- 4 Press the CURSOR RIGHT button again to highlight ACCESS CODE.
- ACCESS CODE and the menu will move to the left with BLOCK CHANNEL highlighted.
- 6 Press the CURSOR DOWN button twice to highlight CLEAR ALL.
- The Street Cursor Right button twice. The CLEAR ALL option will display the word CLEARED. All blocked channels and programming are now viewable.
- 8 Press the STATUS/EXIT button to remove the menu.

If you tune to a specific channel that has been blocked by BLOCK CHANNEL or any of the AutoLockTM RATING options, simply enter your four-digit access code to view the channel.

NOTE: this will unblock ALL channels until the TV is shut OFF. When powered back ON, all previously blocked channels will be blocked again.



SOUND - ADJUSTING THE TREBLE, BASS, AND BALANCE

Besides the normal volume level control, your TV also has individual sound-adjustment controls. The TREBLE (high frequency), BASS (low frequency), and Speaker BALANCE may all be used to adjust the sound playback of TV programs.

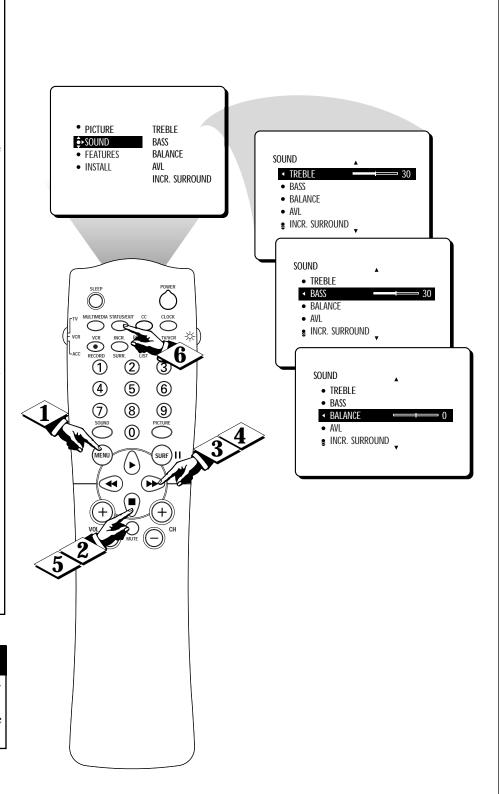
(BEGIN)

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button once to highlight SOUND.
- Press the CURSOR RIGHT button and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
- 4 Use the CURSOR RIGHT or CURSOR LEFT button to adjust the TREBLE (high frequency) level of the television's sound.
- 5 After adjusting the TREBLE control, press the CURSOR DOWN button to select another sound adjustment: BASS or BALANCE. Press the CURSOR RIGHT or CURSOR LEFT button to adjust the selected control.
- 6 Press the STATUS/EXIT button to remove the menu from the screen.



SMART HELP

Remember, when the bar scale is centered, speaker BALANCE is centered between the TV's left and right side speakers.



SOUND - ADJUSTING THE VOLUME



Jse 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 control) are pressed.

BEGIN

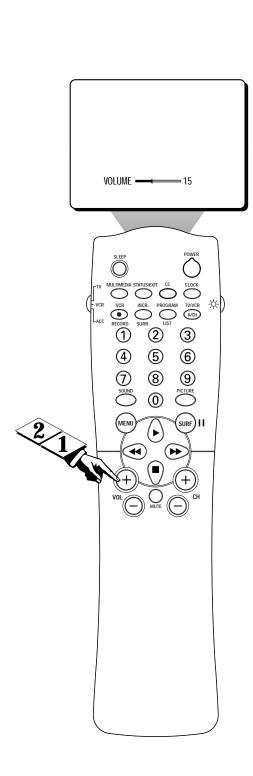
Press the VOLUME (+) or (-) button on the remote control to show the VOLUME bar display on the screen.

Press the VOLUME (+) or (-) button to adjust the television's sound level.



SMART HELP

Try it out. Press the VOL (+) and (-) buttons. The VOLUME bar will appear near the bottom center of the screen.



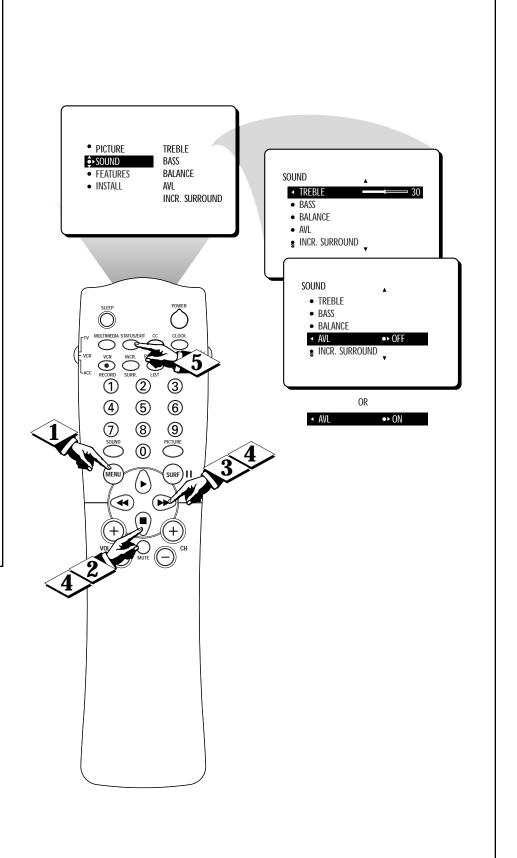
SOUND – USING THE AVL (AUDIO VOLUME LEVELER)



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

- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button once to highlight SOUND.
- **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
- Press the CURSOR DOWN button repeatedly until AVL is highlighted. Then press the CURSOR RIGHT or CURSOR LEFT button to toggle AVL ON or OFF.
- 5 Press the STATUS/EXIT button to remove the menu from the screen.





Sound – Using Incredible Surround



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

(BEGIN)

Press the INCR. SURR. button on the remote control to turn the Incredible Surround feature ON.

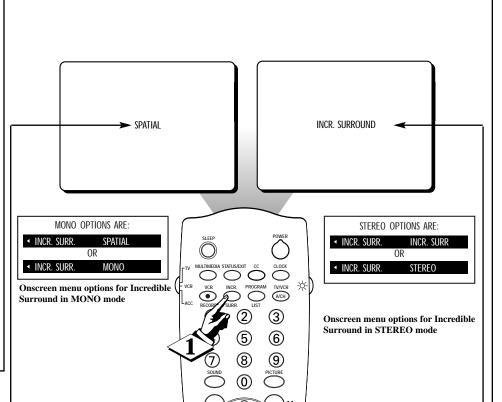
When the TV signal is being received in Stereo, pressing this button will give you these options: STEREO, or INCR. SURROUND.

When the TV signal is in MONO, the choices displayed will read SPATIAL or MONO.



NOTE: If the TV signal is being received from a mono source, pressing the INCR. SURR. button will cause either MONO or SPATIAL to appear on the the screen.

SPATIAL – widens the sound, simulating a broader, fuller sound.



NOTE: If the TV signal is being received from a stereo source, pressing the INCR. SURR. button will toggle three choices: STEREO, INCR. SURROUND, and VIRTUAL DOLBY SURR.

INCR. SURROUND – widens the sound, simulating a broader, fuller sound.



SOUND – SETTING THE TV FOR STEREO AND SAP

You can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.

(BEGIN)

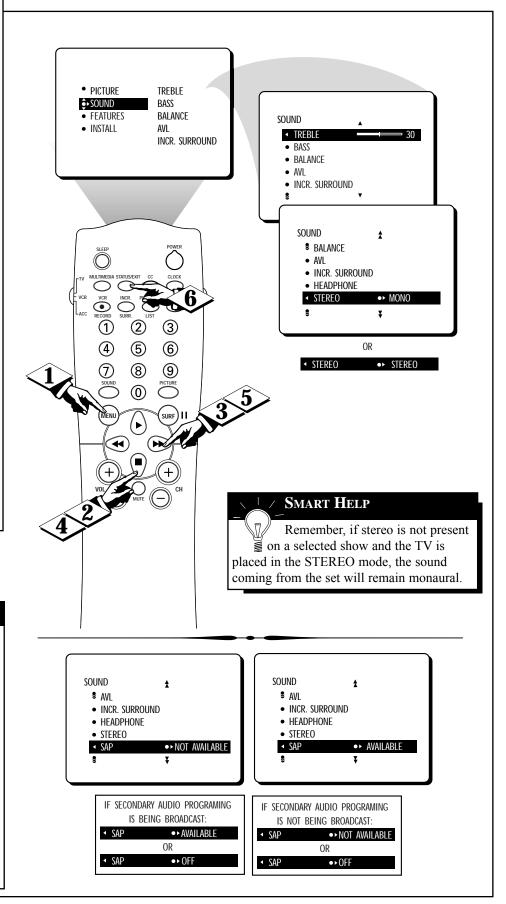
- Press the MENU button on the remote control to show the onscreen menu.
- 2 Press the CURSOR DOWN button once to highlight the SOUND menu.
- Press the CURSOR RIGHT button and the menu will shift to the left.
- 4 Press the CURSOR DOWN button repeatedly until the STEREO control is highlighted.
- CURSOR RIGHT button to select STEREO or MONO. When STEREO has been selected, the television will reproduce any stereo broadcast signal it receives.
- 6 Press the STATUS/EXIT button to remove the menu from the screen.





An SAP is an additional part of the stereo broadcast system. Sent as a third audio channel, an SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes.

If an 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. You will have to reselect the SAP feature.



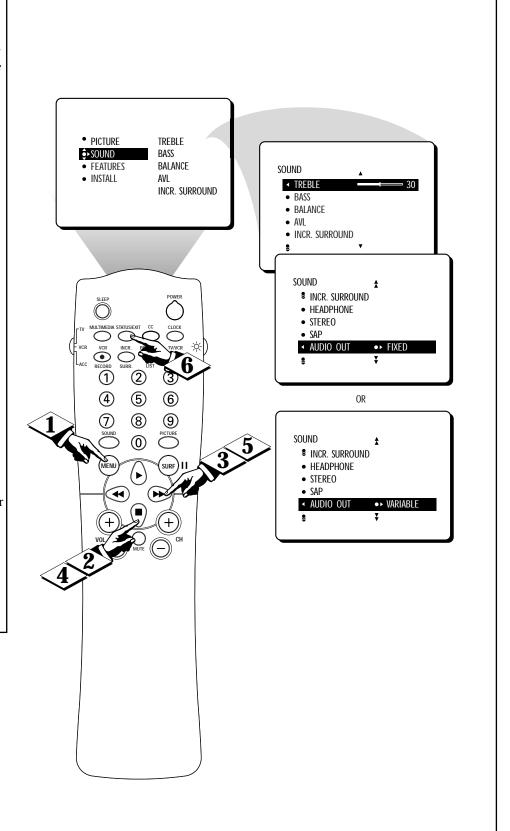
SOUND – SETTING THE AUDIO OUT CONTROL



If you have connected the TV's AUDIO OUTPUT jacks to the AUDIO INPUT jacks on a stereo receiver, set AUDIO OUT to either VARIABLE or FIXED to determine whether you adjust the volume at the stereo or at the TV. If you select VARIABLE, change the volume at the TV using the TV's remote control. If you select FIXED, adjust the volume at the stereo using the stereo's controls. To select FIXED or VARIABLE, follow these steps.

- Press the MENU button on the remote control to show the onscreen menu.
- Press the CURSOR DOWN button once to highlight SOUND.
- Press the CURSOR RIGHT button and the menu will shift to the left.
- Press the CURSOR DOWN button repeatedly until AUDIO OUT is highlighted.
- 5 Press the CURSOR LEFT or CURSOR RIGHT button to set the AUDIO OUT to VARIABLE or FIXED.
- 6 Press the STATUS/EXIT button to remove the menu from the screen.





))))

SOUND – USING THE TV SPEAKER CONTROL AND AUDIO OUTPUT JACKS

Would you like to hear TV programs through your audio hifi system? The TV's Audio Output jacks and TV Speaker ON/OFF control work together to offer you this TV sound option.

(BEGIN)

- Connect the R(ight) and L(eft) AUDIO OUT jacks on the TV to the R and L audio input jacks on your amplifier or sound system. Set the audio system's volume to a normal listening level.
- **Turn the TV and audio system ON.** You can now adjust the sound level coming from the audio system with the VOLUME (+) or (–) buttons on the TV or remote control.

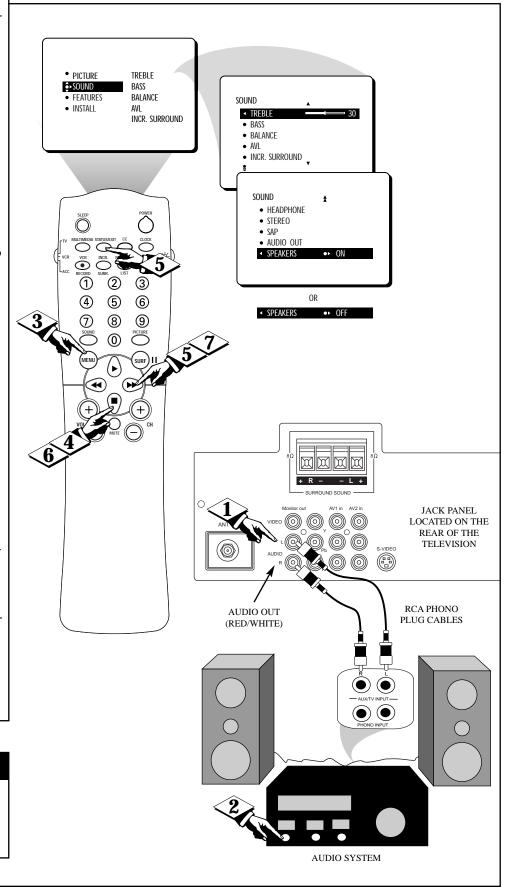
To hear the TV sound from only the audio system speakers:

- 3 Press the MENU button on the remote control to show the onscreen menu.
- 4 Press the CURSOR DOWN button once to highlight SOUND.
- 5 Press the CURSOR RIGHT button and the menu will shift to the left.
- 6 Press the CURSOR DOWN button repeatedly until the SPEAKERS control is highlighted.
- or CURSOR RIGHT or CURSOR LEFT button to turn the television's speakers ON or OFF. With the SPEAKERS control set to OFF, you should hear the TV sound coming only from the audio system speakers.



SMART HELP

Remember, the audio system may have to be in AUX(iliary) mode to play sound from the TV.



SOUND – USING THE SURROUND SOUND EXTERNAL SPEAKER CONNECTIONS



By adding optional external speakers to the TV's sound system, you can create the feeling of reflected sound that surrounds you at a movie theater or concert hall.

(BEGIN)

Connect both external speakers to the speaker wire terminals on the TV.

Recommended speakers: 8 ohm, 15 watt minimum. Be sure the (+) and (-) speaker wires are connected to the correct R(ight) and L(eft) speaker terminals on the TV.

Place the speakers so that the viewing area is between the TV and the rear surround speakers. (See overhead view drawing.)

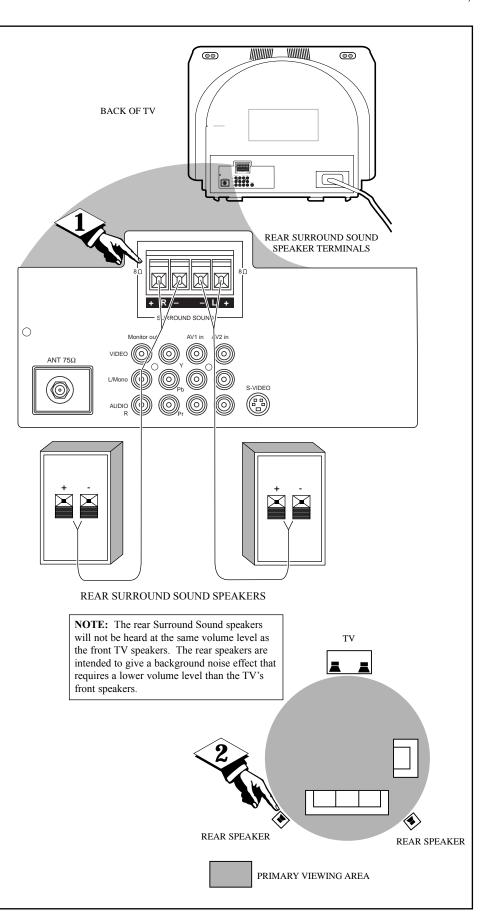
3 Turn the TV and the STEREO control ON.

After setup, whenever a stereo signal is received, the audio will be heard in Surround Sound.



SMART HELP

Remember, Surround
Sound will not work with
only one speaker connected, nor
with a monaural audio source supplied, unless the Incredible
Surround feature is turned ON
(see page 31).



SOUND – USING THE AUDIO/VIDEO INPUT JACKS

AUDIO/VIDEO INPUTS

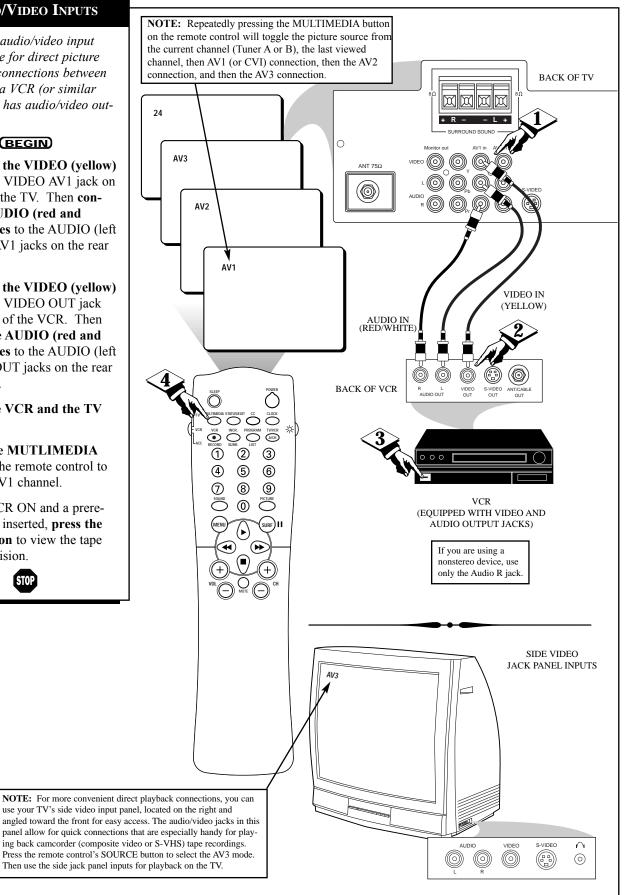
The TV's audio/video input jacks are for direct picture and sound connections between the TV and a VCR (or similar device) that has audio/video output jacks.

(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 MUTLIMEDIA **button** on the remote control to select the AV1 channel.

With the VCR ON and a prerecorded tape inserted, press the **PLAY button** to view the tape on the television.





SOUND – USING THE AUDIO/VIDEO INPUT JACKS (CONT'D)



S-VIDEO INPUT

The S(uper)-Video connection on the rear of the TV can provide you with better picture detail and clarity for the playback of accessory sources such as DBS (digital broadcast satellite), DVD (digital video discs), video games, and S-VHS VCR (video cassette recorder) tapes than the normal antenna picture connections.

NOTE: The accessory device must have an S-VIDEO OUT(put) jack in order for you to complete the connection on this page.

(BEGIN)

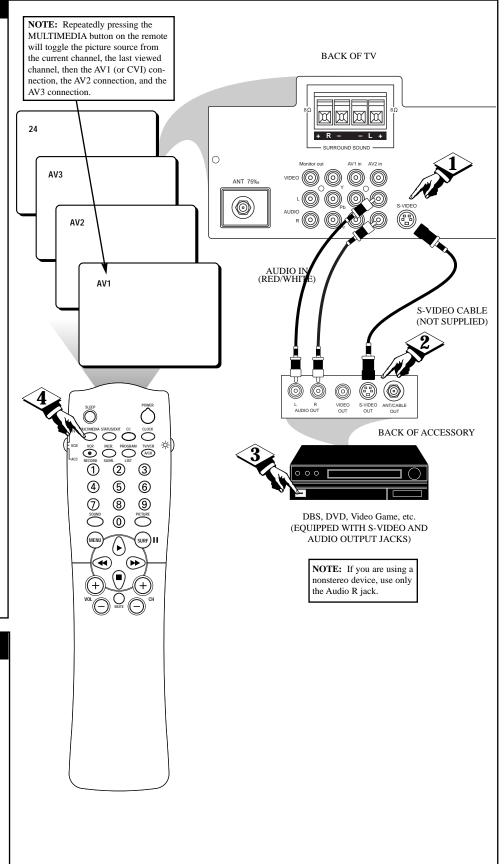
- Connect the S-VIDEO
 CABLE to the S-VIDEO input jack on the rear of the television.
 Then connect the AUDIO (red and white) cables to the AUDIO AV2 jacks on the rear of the TV.
- Connect the S-VIDEO
 CABLE to the S-VIDEO output jack on the accessory device.
 Then connect the red and white AUDIO cables to the AUDIO (left and right) output jacks on the rear of the accessory device.
- Turn the accessory device ON.
- button on the remote control to tune the AV2 channel. You are now ready to view the tape or disc on the TV.



SMART HELP

The S-VIDEO and VIDEO AV2 in(puts) are in parallel. The S-VIDEO input is dominant when in use. If separate video signals are connected to the S-VIDEO and VIDEO AV2 in(puts), the signal from the VIDEO AV2 in(put) will not be usable.

If you have added AV2 in(puts) to the TV's channel memory, just press the CHANNEL (+) or (-) button until the AV2 in(puts) (channel) mode is selected.



SOUND – USING THE AUDIO/VIDEO INPUT JACKS (CONT'D)

COMPONENT VIDEO INPUTS

Component Video inputs provide for the highest possible color and picture resolution in the playback of digital signal source material, such as with DVD players. The color difference signals (Pb, Pr) and the luminance (Y) signal are connected and received separately, which allows for improved color bandwidth information (not possible when using composite video or S-Video connections).

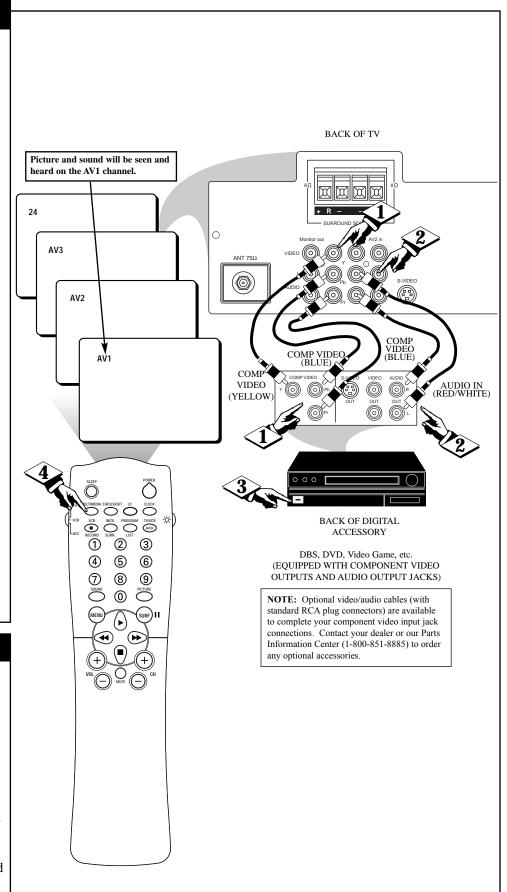
(BEGIN)

- Connect the Component (Y, Pb, Pr) Video OUT jacks from the DVD player (or similar device) to the (Y, Pb, Pr) AV1 in(put) jacks on the TV.
- Connect the red and white AUDIO CABLES to the Audio (left and right) output jacks on the rear of the accessory device to the Audio (L and R) AV1 in(put) jacks on the TV.
- 3 Turn the TV and the DVD (or digital accessory device) ON.
- 4 Press the MULTIMEDIA button on the remote to tune to the AV1 channel. You are now ready to view the disc on the TV.



SMART HELP

The description for the component video connectors may differ depending on the DVD player or accessory digital source equipment used (for example, Y, Pb, Pr; Y, B–Y, R–Y; Y, Cr, Cb). Although abbreviations and terms may vary, the letters b and r stand for the blue and red color component signal connectors, and Y indicates the luminance signal. Refer to your DVD or digital accessory owner's manual for definitions and connection details.



REMOTE CONTROL – USING AUTOPICTURETM



Whether you're watching a movie or a video game, your TV has automatic video control settings that will match with your current program source or content. AutoPictureTM quickly resets your TV's video controls for a number of different types of programs and viewing conditions that you may have in your home. The Movies, Sports, Weak Signal, and $Multmedia\ AutoPicture^{TM}\ controls$ have been preset at the factory to automatically adjust the TV's brightness, color, picture, sharpness, tint, and color temperature levels. The Personal AutoPictureTM settings are the ones that you made through the PICTURE options within the onscreen menu.

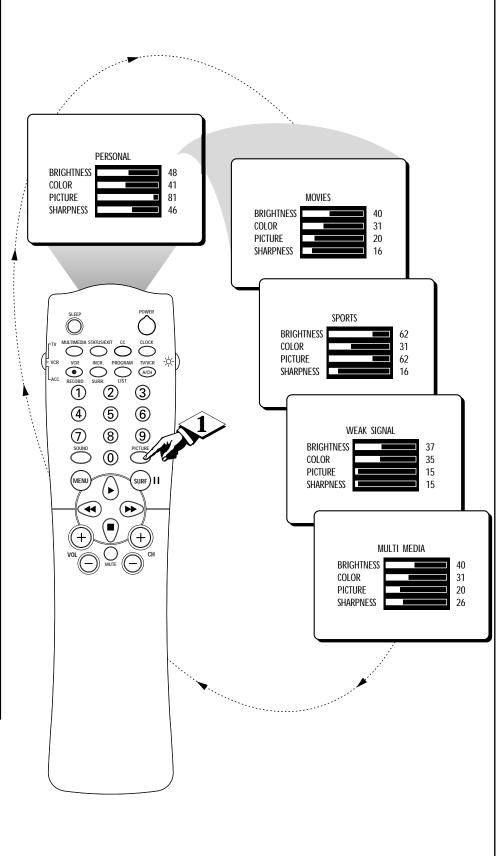
(BEGIN)

on the remote control. The current AutoPicture™ setting will appear in the middle of the screen.

Press the PICTURE button repeatedly to select either PER-SONAL, MOVIES, SPORTS, WEAK SIGNAL, or MULTI MEDIA picture settings.

NOTE: The PERSONAL setting and the PICTURE options within the onscreen menu are the same. This is the only option in AutoPicture™ that can be changed. To adjust these settings, use the PICTURE options within the onscreen menu. All other settings are set up at the factory during production and cannot be adjusted.







REMOTE CONTROL – USING AUTOSOUNDTM

A utoSoundTM allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls (Voice, Music, and Theatre) enable you to tailor the TV sound so as to enhance the particular program you are watching. Follow these steps to select any of the options.

(BEGIN)

Press the SOUND button on the remote control. The current AutoSound™ setting will appear in the middle of the screen.

Press the SOUND button repeatedly to toggle among the four settings: PERSONAL, VOICE, MUSIC, or THEATRE.

Remember, only the PERSONAL control can be changed by the viewer. This changes the settings in the main onscreen menu's SOUND controls.



SMART HELP

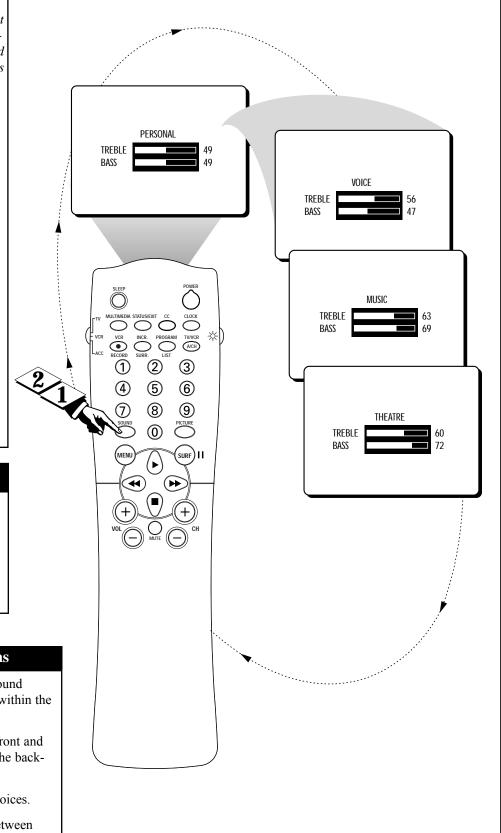
AutoSoundTM Options

PERSONAL – presents the TV's sound according to the settings you make within the sound menu.

VOICE – brings voices to the forefront and emphasizes them. Moves music to the background.

MUSIC – emphasizes music over voices.

THEATRE – provides a balance between voices and music.



REMOTE CONTROL – USING CHANNEL SURF



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 channels that currently interest you. The SURF control allows you to set up to ten channels in its quick viewing list.

(BEGIN)

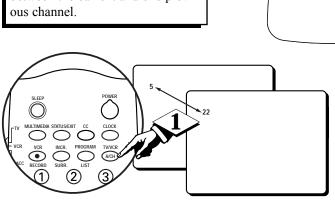
- Press the CHANNEL(+) or (-) button (or the numbered buttons) to select a channel to add to the SURF list.
- Press the SURF button on the remote control. The onscreen display may read, "SURF LIST EMPTY." The number of the current channel will be shown with "ADD?" to the right.
- While the SURF list message or the SURF channel list appears on the screen, press the CURSOR RIGHT button to add the present channel to the SURF list.
- If you want to delete the present channel from the SURF list, press the CURSOR RIGHT button again.

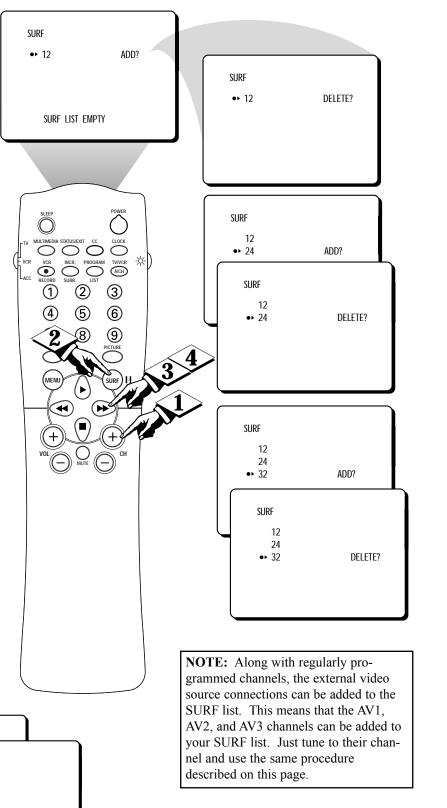
Repeat steps 1 through 3 to add more channels (up to 10) to the SURF list.



A/CH BUTTON

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







REMOTE CONTROL – OPERATING ACCESSORY DEVICES (DIRECT ACCESS)

Your remote control is capable of working your TV and many other devices that respond to infrared remote control commands, such as VCRs, cable boxes, satellite systems, and DBS. Your remote may be already, as is, to work an accessory device, or you may need to use one of the methods ("Code Entry" or "Search") explained on pages 43 and 44.

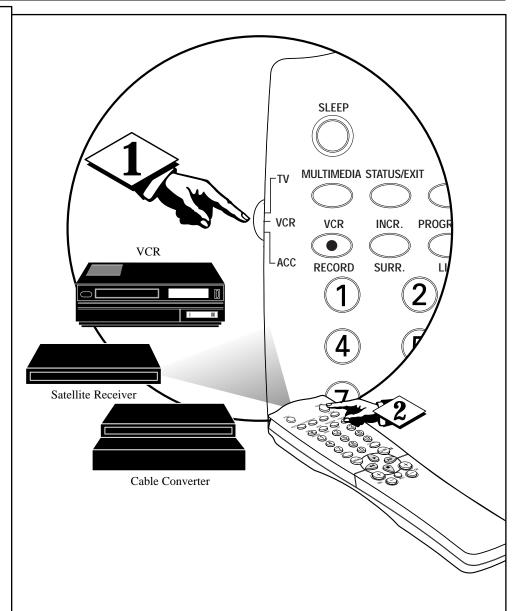
First, try this simple test to see if your TV remote control will give you direct access to the accessory device's functions, or if you will need to try another method in order to set up your TV remote control for that capability.

(BEGIN)

- Place the TV/VCR/ACC mode switch in the proper position.
- Point the remote control at the remote sensor window of the accessory device and press the POWER button.
- Does the remote control 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, go to page 43 to try the Code-Entry method.



REMOTE CONTROL – OPERATING ACCESSORY DEVICES (CODE ENTRY)



Pollow these simple steps to enter a three-digit Accessory Device Code Number that will allow you to use your TV remote to work the functions of an accessory device. Please read through the steps once before performing them.

(BEGIN)

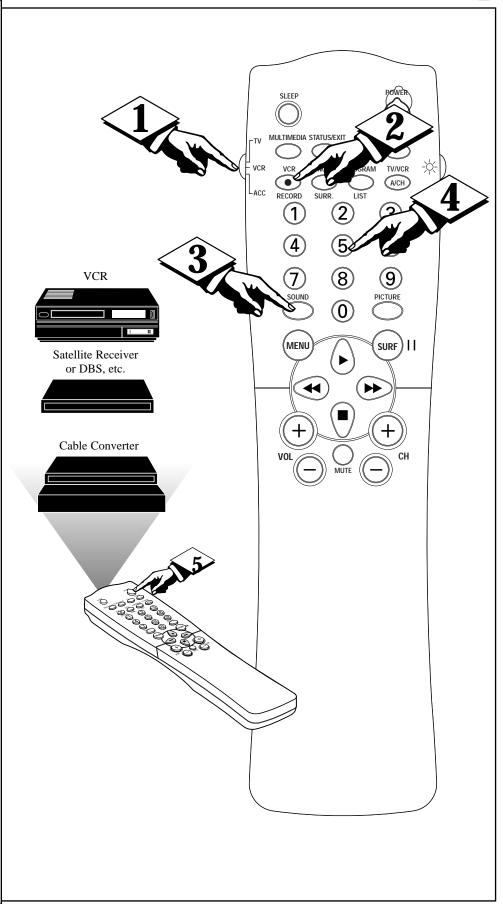
- Look up a three-digit
 Accessory Device Code Number
 for the accessory device (found
 on pages 45–46) whose functions
 you want to work with your
 TV's remote control.
- 2 Press the VCR RECORD button on the remote control and release.
- Press the SOUND button on the remote within 30 seconds, then release.
- Enter the three-digit Direct-Entry Code Number for your desired device. The remote is now ready to send commands to the unit.
- Sensor window of the device.
 Then press the POWER button on the remote to turn the unit ON.
- 6 Enter the three-digit
 Accessory Code Number for the
 accessory device. The TV remote
 control should now be ready to
 send commands to the accessory
 device.

NOTE: If the process just explained doesn't work the first time, repeat the same Accessory Device code number.

If after a second try the TV remote control does not operate your accessory device, see if other three-digit Accessory Device Code Numbers are shown for your device on the list pages 45–46 and repeat the steps above using a new number.

If after repeated attempts this method does not work for you, go to page 44 and follow the steps for using the Search method to set up your remote control.







REMOTE CONTROL - OPERATING ACCESSORY DEVICES (SEARCH)

Follow these simple steps to have your TV remote search for the code it needs to work the functions of your accessory device. Please read through the steps once before performing them.

NOTE: The Search method works only with devices equipped with channel display indicators or channel display capability.

(BEGIN)

- Press the POWER button on the device your are attempting to program to turn it ON.
- Slide the TV/VCR/ACC mode switch to the VCR position if you're setting up a VCR or to the ACC position if you're setting up any other accessory device.
- 3 Press the (VCR) RECORD and SOUND buttons simultaneously and hold them down. 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 SOUND buttons.

NOTE: Don't let the device scan up more than five channels. If you do, the remote control may pass up the correct code, and another two-minute search cycle will have to be done.

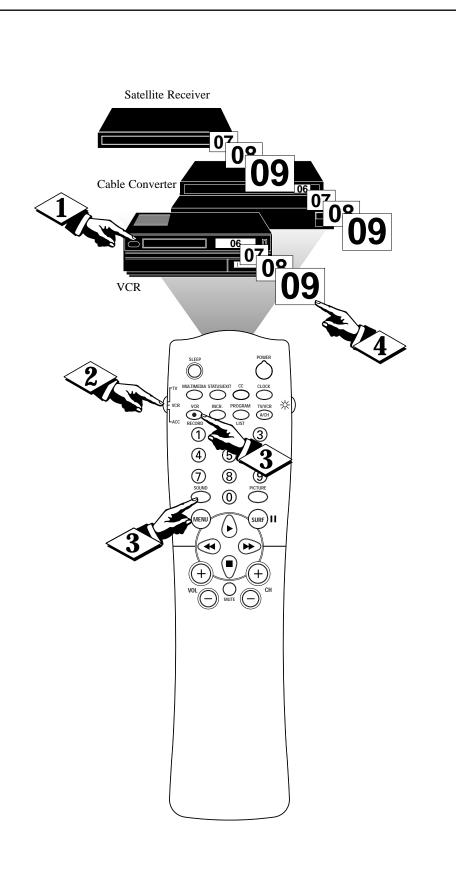
If no channel change happens within two minutes, repeat steps 1–4. Should a channel change still not occur, the remote will not work the desired device.



SMART HELP

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 done.

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



REMOTE CONTROL – ACCESSORY DEVICE CODE NUMBERS



VCR CODE NO. VCR CODE NO. VCR CODE NO. Admiral .048 Loewe .004 Sanyo .046,047,104,240,24 Advanture .000 MEI .035 Saville .3 Aiko .000,037, 307, 348, 352 MGN Technology .240 .047,054,066,104, 11 Alkia .041,049,053,061,106,315 MTC .000,035,081,146, 181 Sharp .046,06 Albia .352 Magnavox .000,035,081,146, 181 Shintom .0 Amercian High .035 Matra .037 Shogun .051,2 Asha .240 Masushiria .035,122,35 Shoral .0 Addiovox .037 Memmorex .000,035,037,039,046 Simdyne .0 Bell & Howell .104 Memorex .000,035,037,039,046 Simdyne .0 Brandt .187,320,321 Mitsubishi .047,048,104,240,266,307 Sunkel .3 Broksonic .121,184,211,295,361 Motorola .035,048 Sylvani		
Advantur		
Advanture	200 Deliver 111111111111111111111111111111111111	
Adventure		
Aiko 278 MGA 0.43, 061 Sears .000, 037, 037, 042, 04 Akai .041, 049, 053, 061, 106, 315 MTC .000, 035, 031, 146, 181 Sharp .047, 054, 066, 104, 104 Alba .352 Magnavox .000, 035, 081, 146, 181 Shinton .00 Amercian High .035 Marta .037 Shogun .051, 24 Asha .240 Matsui .004, 348, 352 Shoral .00 Asha .240 Matsuishita .035, 162, 485 Siemens .00 Baird .107 Memorex .000, 035, 037, 039, 046, 51 Singer .00 Bell & Howell .104 Metz .003, 347 Sindye .00 Blaupunkt .003, 06, 154 Minolta .042, 105 Sinukle .32 Broksonic 121, 184, 211, 295, 361 Mitsubishi .043, 061, 067, 075, 173, 443 Sunpak .22 CCE .072, 278 NAD .058 TMK .036, 208, 24 Calix .037, 278 NAD		
Aiwa		
Akai 0.41, 0.49, 0.53, 0.61, 1.06, 3.15 MTC 0.00, 2.40 Sharp 0.46, 0.60		
Alba 3.52 Magnavox 0.00, 0.35, 0.81, 146, 1.81 Shinform 0.00 Amercian High 0.35 Marta 0.037 Shogun 0.51, 24 Amstrad 3.25, 3.32 Matsui 0.04, 348, 352 Shoral 0.00 Axba 2.40 Matsushita 0.35, 162, 454 Siemens 0.00 Matsushita 0.35, 162, 454 Siemens 0.00 Memmorex 0.00, 0.35, 0.37, 0.39, 0.46 Simudyne 0.00 0.00 Seaumark 2.40 Memorex 0.00, 0.35, 0.37, 0.39, 0.46 Sinudyne 0.00 0.00 Seaumark 2.40 Metz 0.03, 347 0.034, 0.35, 253, 27 Slaupunkt 0.03, 0.06, 154 Minolta 0.42, 105 Sunkel 3.3 Sunpak 3.52 Mitsubishi 0.43, 0.61, 0.67, 0.75, 173, 443 Sunpak 2.2 Broksonic 1.21, 184, 211, 295, 361 Motorola 0.35, 0.48 Sylvania 0.00, 0.35, 0.43, 0.81, 10.3, 11 Sush 3.52 Multitech 0.00, 0.72 Symphonic 0.00 CCE 0.72, 278 NAD 0.88 TMK 0.036, 208, 20 Calix 0.37 NEC 0.36, 0.40, 0.41, 0.67, 104 Tatung 0.00 Capehart 0.20 Nikko 0.34 2.53 Technics 0.35, 14 Carver 0.81, 146 Noblex 2.40 Teknika 0.000, 0.35, 12 Colt 0.72 Okano 3.46 Tansal 3.7 Combitach 0.35, 0.41, 0.60 1.62, 432, 454 Toshiba 0.43, 0.43, 0.61, 0.67, 0.75, 173, 443 Sunpak 0.20 Critizen 0.37, 278 Nordmende 2.297, 320, 321 Telefunken 1.87, 320, 32 Colt 0.072 Okano 3.46 Tansal 3.7 Toshiba 0.43, 0.45, 0.66, 212, 34 Colt 0.072 Okano 0.346 Tansal 3.7 Toshiba 0.43, 0.45, 0.66, 212, 34 Colt 0.072 Okano 0.042 0.05, 0.07, 0.04, 205, 0.05, 0.07, 0.05, 0.07, 0		
Amercian High .035 Marta .037 Shogun .051, 2c Amstrad .325, 332 Matsui .004, 348, 352 Shoral .00 Audiovox .037 Memmorex .035, 162, 454 Siemens .00 Baird .107 Memorex .000, 035, 037, 039, 046, 65 Singer .00 Beumark .240 Memorex .000, 035, 037, 039, 046, 65 Sindyne .00 Bell & Howell .104 Metz .003, 347 .034, 035, 253, 27 Blaupunkt .003, 061, 54 Minolta .042, 105 Sunkel .33 Brandt .187, 320, 321 Mitsubishi .043, 061, 067, 075, 173, 443 Sunpak .22 Broksonic .121, 184, 211, 295, 361 Motorola .035, 048 Sylvania .000, 035, 043, 081, 103, 11 Bush .352 Maltitech .000, 072 Symphonic .00 Cel .072, 278 NAD .058 TMK .037 Teac .000, 0 Calix .037, 078, 078, 079, 07		
Amstrad		
Asha	,	
Audiovox		· · · · · · · · · · · · · · · · · · ·
Baird		
Beaumark	——————————————————————————————————————	
Bell & Howell		
Blaupunkt		
Brandt .187, 320, 321 Mitsubishi .043, 061, 067, 075, 173, 443 Sunpak .25 Broksonic .121, 184, 211, 295, 361 Motorola .035, 048 Sylvania .000, 035, 043, 081, 103, 11 CCE .072, 278 NAD .058 TMK .036, 208, 22 Calix .037 NEC .036, 040, 041, 067, 104 Tatung .00 Canon .035 Niko .037 Technics .035, 18 Carver .081, 146 Noblex .240 Technics .035, 01 Colt .072 Okano .342 Technics .035, 02 Colt .072 Okano .346 Tansal .352 Combitach .352 Olympus .035, 226 Thomas .00 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104 Thomson .3 Curtis Mathes .035, 041, 600 .062 Totavision .037, 22 Daewoo .020, 045, 276 Orion .042, 953, 348, 352, 479 Towa		
Broksonic 121, 184, 211, 295, 361 Motorola 0.35, 048 Sylvania 0.00, 035, 043, 081, 103, 11		
Bush 352 Multitech .000, 072 Symphonic .00 CCE .072, 278 NAD .058 TMK .036, 208, 2e Calix .037 NEC .036, 040, 041, 067, 104 Tatung .00 Canon .035 Nikko .037 Teac .000, 04 Capchart .020 Nikon .034, 253 Technics .035, 16 Carver .081, 146 Noblex .240 Teknika .000, 035, 03 Citizen .037, 278 Nordmende .297, 320, 321 Telefunken .187, 320, 32 Colt .072 Okano .346 Tansal .32 Colt .072 Okano .346 Thomas .00 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104, Thomson .32 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .043, 045, 066, 212, 36		
CCE .072, 278 NAD .058 TMK .036, 208, 24 Calix .037 NEC .036, 040, 041, 067, 104 Tatung .06 Canon .035 Nikko .037 Teac .000, 04 Capehart .020 Nikon .034, 253 Technics .035, 16 Carver .081, 146 Noblex .240 Teknika .000, 035, 03 Citizen .037, 278 Nordmende .297, 320, 321 Telefunken .187, 320, 32 Colt .072 Okano .346 Tansal .32 Combitach .352 Olympus .035, 226 Thomas .00 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104 Thomson .32 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 38 Cybermax .051, 240 Optonica .062 Totavision .037, 22 Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada		
Calix .037 NEC .036, 040, 041, 067, 104 Tatung .02 Canon .035 Nikko .037 Teac .000, 04 Capehart .020 Nikon .034, 253 Technics .035, 16 Carver .081, 146 Noblex .240 Teknika .000, 035, 03 Citizen .037, 278 Nordmende .297, 320, 321 Telefunken .187, 320, 33 Colt .072 Okano .346 Tansal .32 Combitach .352 Olympus .035, 226 Thomas .00 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104 Thomson .32 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .037, 22 Dawoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .32 Dynatech .002 Penney .035, 077, 162, 225, Univer		
Canon .035 Nikko .037 Teac .000, 04 Capehart .020 Nikon .034, 253 Technics .035, 16 Carver .081, 146 Noblex .240 Teknika .000, 035, 16 Citizen .037, 278 Nordmende .297, 320, 321 Telefunken .187, 320, 32 Colt .072 Okano .346 Tansal .32 Combitach .352 Olympus .035, 226 Thomas .00 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104 Thomson .33 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .037, 043, 045, 066, 212, 36 Daytron .020 Panasonic .035, 077, 162, 225, 10 Unitech .22 Denon .042 .226, 378, 454 Universum .33 Dynatech .000 Penney .035, 037, 038, 040, 10 Vactor		
Capehart 020 Nikon .034, 253 Technics .035, 16 Carver .081, 146 Noblex .240 Teknika .000, 035, 03 Citzen .037, 278 Nordmende .297, 320, 321 Telefunken .187, 320, 32 Colt .072 Okano .346 Tansal .32 Combitach .352 Olympus .035, 226 Thomas .00 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104, Thomson .32 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .037, 22 Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .32 Denon .042 Panasonic .035, 077, 162, 225, Unitech .24 Dynatech .000 Penney .035, 037, 038, 040, Vactor .04 Emerson .000, 002, 036, 037, 043, 061 Philco		
Carver .081, 146 Noblex .240 Teknika .000, 035, 03 Citizen .037, 278 Nordmende .297, 320, 321 Telefunken .187, 320, 33 Colt .072 Okano .346 Tansal .32 Combitach .352 Olympus .035, 226 Thomas .00 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104 Thomson .33 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .037, 042, 043, 045, 066, 212, 36 Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .33 Daytron .020 Panasonic .035, 077, 162, 225, Unitech .22 Denon .042 .226, 378, 454 Universum .33 Dynatech .000 Penney .035, 037, 038, 040, Vactor Vactor Research .038, 04 Emerson .000, 002, 036, 037, 043, 061 Philco		
Citizen .037, 278 Nordmende .297, 320, 321 Telefunken .187, 320, 32 Colt .072 Okano .346 Tansal .32 Combitach .352 Olympus .035, 226 Thomas .06 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104, Thomson .32 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .037, 24 Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .33 Daytron .020 Panasonic .035, 077, 162, 225, Unitech .22 Denon .042 .226, 378, 454 Universum .33 Dynatech .000 Penney .035, 037, 038, 040, Vactor Research .038, 04 Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06		
Colt .072 Okano .346 Tansal .32 Combitach .352 Olympus .035, 226 Thomas .00 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104, Thomson .32 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .037, 22 Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .32 Daytron .020 Panasonic .035, 077, 162, 225, Unitech .22 Denon .042 .226, 378, 454 Universum .32 Dynatech .000 Penney .035, 037, 038, 040, Vactor .02 Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Videosonic .22 Emerson .068, 088, 121, 164, 208, 209, Philips .035, 062,		
Combitach 352 Olympus .035, 226 Thomas .00 Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104, Thomson .32 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .037, 24 Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .32 Daytron .020 Panasonic .035, 077, 162, 225, Unitech .22 Denon .042 .226, 378, 454 Universum .32 Dynatech .000 Penney .035, 037, 038, 040, Vactor Vactor Electrophonic .037 .042, 065, 105 Video Concepts .042, 045, 045 Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06		· · · · · · · · · · · · · · · · · · ·
Craig .037, 047, 072, 240, 271 Optimus .037, 048, 058, 104, Thomson .32 Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .037, 24 Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .32 Daytron .020 Panasonic .035, 077, 162, 225, Unitech .24 Denon .042 .226, 378, 454 Universum .32 Dynatech .000 Penney .035, 037, 038, 040, Vactor .04 Emerex .037 .042, 065, 105 Vactor Research .038, 04 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Video Concepts .040, 045, 06 .068, 088, 121, 164, 208, 209, Philips .035, 062, 081, 110, 403 Wards .000, 035, 042, 047, 048, 060, 06 .211, 212, 278, 295, 361, 479 Pilot .037 .072, 081, 149, 161, 212, 24 Ferguson .107, 3		
Curtis Mathes .035, 041, 060 .162, 432, 454 Toshiba .043, 045, 066, 212, 36 Cybermax .051, 240 Optonica .062 Totavision .037, 24 Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .32 Daytron .020 Panasonic .035, 077, 162, 225, Unitech .24 Denon .042 .226, 378, 454 Universum .32 Dynatech .000 Penney .035, 037, 038, 040, Vactor .042 Electrophonic .037 .042, 065, 105 Vactor Research .038, 04 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Video Concepts .040, 045, 06		
Cybermax .051, 240 Optonica .062 Totavision .037, 24 Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .32 Daytron .020 Panasonic .035, 077, 162, 225, Unitech .24 Denon .042 .226, 378, 454 Universum .32 Dynatech .000 Penney .035, 037, 038, 040, Vactor .042 Electrophonic .037 .042, 065, 105 Vactor Research .038, 04 Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Videosonic .24		
Daewoo .020, 045, 276 Orion .004, 295, 348, 352, 479 Towada .32 Daytron .020 Panasonic .035, 077, 162, 225, Unitech .24 Denon .042 .226, 378, 454 Universum .32 Dynatech .000 Penney .035, 037, 038, 040, Vactor .042 Electrophonic .037 .042, 065, 105 Vactor Research .038, 04 Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Videosonic .24		
Daytron .020 Panasonic .035, 077, 162, 225, Unitech .24 Denon .042 .226, 378, 454 Universum .32 Dynatech .000 Penney .035, 037, 038, 040, Vactor .042 Electrophonic .037 .042, 065, 105 Vactor Research .038, 04 Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Videosonic .24 .068, 088, 121, 164, 208, 209, Philips .035, 062, 081, 110, 403 Wards .000, 035, 042, 047, 048, 060, 06 .211, 212, 278, 295, 361, 479 Pilot .037 .072, 081, 149, 161, 212, 24 Ferguson .107, 320, 321 Pioneer .058, 067 XR-1000 .000, 035, 07 Fisher .047, 054, 066, 104 Portland .020 Yamaha .036		
Denon .042 .226, 378, 454 Universum .32 Dynatech .000 Penney .035, 037, 038, 040, Vactor .04 Electrophonic .037 .042, 065, 105 Vactor Research .038, 04 Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Videosonic .24 .068, 088, 121, 164, 208, 209, Philips .035, 062, 081, 110, 403 Wards .000, 035, 042, 047, 048, 060, 06 .211, 212, 278, 295, 361, 479 Pilot .037 .072, 081, 149, 161, 212, 24 Ferguson .107, 320, 321 Pioneer .058, 067 XR-1000 .000, 035, 07 Fisher .047, 054, 066, 104 Portland .020 Yamaha .03		
Dynatech .000 Penney .035, 037, 038, 040, Vactor .042 Electrophonic .037 .042, 065, 105 Vactor Research .038, 04 Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Videosonic .22 .068, 088, 121, 164, 208, 209, Philips .035, 062, 081, 110, 403 Wards .000, 035, 042, 047, 048, 060, 06 .211, 212, 278, 295, 361, 479 Pilot .037 .072, 081, 149, 161, 212, 24 Ferguson .107, 320, 321 Pioneer .058, 067 XR-1000 .000, 035, 07 Fisher .047, 054, 066, 104 Portland .020 Yamaha .03		
Electrophonic .037 .042, 065, 105 Vactor Research .038, 04 Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Videosonic .24 .068, 088, 121, 164, 208, 209, Philips .035, 062, 081, 110, 403 Wards .000, 035, 042, 047, 048, 060, 06 .211, 212, 278, 295, 361, 479 Pilot .037 .072, 081, 149, 161, 212, 24 Ferguson .107, 320, 321 Pioneer .058, 067 XR-1000 .000, 035, 07 Fisher .047, 054, 066, 104 Portland .020 Yamaha .03	· · · · · · · · · · · · · · · · · · ·	-, - · · · · · · · · · · · · · · · · · ·
Emerex .032 Pentax .042, 065, 105 Video Concepts .040, 045, 06 Emerson .000, 002, 036, 037, 043, 061 Philco .035 Videosonic .22 .068, 088, 121, 164, 208, 209, Philips .035, 062, 081, 110, 403 Wards .000, 035, 042, 047, 048, 060, 06 .211, 212, 278, 295, 361, 479 Pilot .037 .072, 081, 149, 161, 212, 24 Ferguson .107, 320, 321 Pioneer .058, 067 XR-1000 .000, 035, 07 Fisher .047, 054, 066, 104 Portland .020 Yamaha .03		· · · · · · · · · · · · · · · · · · ·
Emerson .000, 002, 036, 037, 043, 061 Philco .035 Videosonic .24 .068, 088, 121, 164, 208, 209, Philips .035, 062, 081, 110, 403 Wards .000, 035, 042, 047, 048, 060, 06 .211, 212, 278, 295, 361, 479 Pilot .037 .072, 081, 149, 161, 212, 24 Ferguson .107, 320, 321 Pioneer .058, 067 XR-1000 .000, 035, 07 Fisher .047, 054, 066, 104 Portland .020 Yamaha .03		
Ferguson .107, 320, 321 Pioneer .058, 067 XR-1000 .000, 035, 07 Fisher .047, 054, 066, 104 Portland .020 Yamaha .03		
Fisher		
Funai		
GE		
Garrard		
Go Video		
Gold Star		
Gradiente		
Grundig	8, 007, 195, 347 RCA	
HI-Q	047	
Harley Davidson	000 Radio Shack	idson
Harman/Kardon	038, 075 Radix	rdon
Harwood	068, 072 Randex	
Headquarter	046 Realistic000, 035, 037, 045, 047 Cable Star	r
Hinari		
Hitachi	, 004, 041, 042, Ricoh	
	5, 105, 168, 235 Runco	
Ingersol		
JVC		
Jensen		
KEC		
KLH		
Kenwood		
Kodak		
LXI		
Lloyd's		



REMOTE CONTROL – ACCESSORY DEVICE CODE NUMBERS

CABLE	REMOTE	CABLE	REMOTE		REMOTE
CONVERTOR	CODE NO.	CONVERTOR	CODE NO.	SATELLITE	CODE NO.
Eastern		United Artists		Hirschmann	
Everquest		United Cable		Houston	
Filmnet		Universal	022, 056, 153, 191	Huth	
Focus		Videoway		ITT	
France Telecom		3		Intervision	
GC Electronics				JVC	
GEC				Kathrein	
Ganard				La Sat	
Gemini				Lennox	
General Instrument				Lupus	
Gold Star		Zentek		Luxor	
Grundig			REMOTE	Manhatten	
Hamlin		DBS	CODE NO.	Maspro	
Hitachi				Matsui	
Hytex				Mediamarkt	
Jasco					
Jerrold				Minerva	
				Mintec	
MAIE			tem	Morgan's	
M.N.E. T				Newhaus	
MNet				Nikko	
Macon				Nokia	
Magnavox				Nordmende	
Memorex				Orbitech	
Movie Time				Pace06	
NSC				Paliadium	
Oak		Sony		Palsat	
Optimus				Philips	
Panasonic	000, 021, 107	Uniden		Phonotrend	
Paragon				Plasmatic	
Philips025, 027, 031	1, 153, 242, 290, 334		REMOTE	Proset	
Pioneer		SATELLITE	CODE NO.	Quadral	
Popular Mechanics		AST		RFT	
Pulsar		Akai		Radix	
RCA		Alba		SAT	
Radio Shack		Aldea		SEG	
Recoton		Amstrad 080, 2	52, 345, 461, 509, 689	Saba	
Regal				Salora	
Regency				Satec	
Rembrandt				Schwaiger	
Runco		U		Seemann	
SL Marx				Skymaster	
Salora				Sony	
Samsung				Star Trak	
Satbox					
Scientific Atlanta		=			
				Sunstar Tantec	
Signal				Techni Sat	
Sprucer				Teleka	,
Star Sight				Tonna	
Starcom	*			Triad	
Stargate				Universum	
Starquest				Vtech	
Sylvania				Wisi	
TV85					DEMOTE
Tandy				DID	REMOTE
Tele+1				DVD	CODE NO.
Teleservice			067, 183, 189, 336	Kenwood	
Teleview				Mitsubishi	
Texscan				Panasonic	
Timeless				Philips	
Tocom				Pioneer	
Toshiba				RCA	
Tudl				Sony	
Tusa		Grundig	173, 189, 571, 750	Toshiba	
Unike		Hinari			

REMOTE CONTROL – USING THE REMOTE'S VCR BUTTONS

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

(BEGIN)

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

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



VCR System Switch

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

Record Button -

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

Play Button > -

Press to begin playback of a videotape.

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 the picture moving rapidly in reverse.

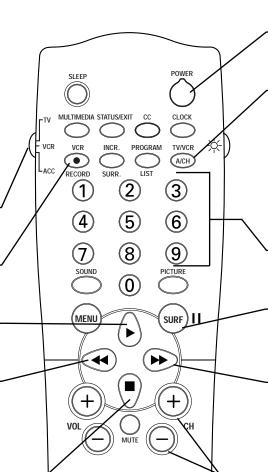
Stop Button ■ -

Press to stop the motion of a tape in playback, rewind, fastforward, and so on.

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.



Power Button

Press to turn the VCR ON and OFF.

TV/VCR Button

Press while in the VCR mode (the VCR indicator on the front of the unit will light) to view the playback of a tape. Press again to place in the TV position (the VCR indicator light will go off) to view one program while recording another program.

Number Buttons

Press buttons for the direct selection of VCR channels.

Pause Button II

Press to temporarily stop the tape during a playback or recording. Press again to release Pause.

Fast Forward Button ▶▶

Press to rapidly advance the tape. For some VCRs, you may need to press the STOP button first, then the FAST FORWARD button. In playback mode, hold the button down to view the picture moving rapidly in the forward direction.

Channel + and - Buttons

Press to scan up or down through the VCR channel numbers.



TROUBLESHOOTING

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

CAUTION: A video source (such as a video game, compact disc interactive [CDI], or TV information channel) that shows a constant nonmoving pattern on the TV screen can cause picture tube damage. When your TV is continuously used with such a source, the pattern of the nonmoving portion of the game (or other source) can leave a permanent image on the picture tube. When you're not using the video source, turn it OFF. Also, regularly alternate the use of such video sources with normal TV viewing.

No Power

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

No Picture

- Check antenna connections. Are they properly secured to the TV's ANT 75 Ω plug?
- Check the TUNER MODE control for the correct tuner setting.
- Try running the Auto Program feature to find all available channels.
- Press the AV button on the remote to make sure the correct signal source is selected (AV 1, AV 2, AV 3, or S-VIDEO).

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- Check the SPEAKER onscreen control. If it is in the OFF position, sound at the set will be eliminated.
- If you're attempting to hook up auxiliary equipment, check the audio jack connections.
- (If applicable) Check the audio receiver for the correct operating mode.

Remote Does Not Work

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

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add the desired channel numbers (using the CHANNEL EDIT control) into the TV's memory.
- Check to be sure the TUNER MODES are set to the CABLE option and run the Auto Program feature to find all available channels.

Cleaning and Care

- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- When you are cleaning the TV, 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



Alternate Channel • The feature that allows you to toggle between the last two channels viewed by pressing the A/CH button on the remote control.

Auto Programming • The feature that, when activated, scans for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

Channel Edit • The feature that allows you to add or delete channels from the list of channels stored in the TV's memory. Channel Edit makes it easy to limit or expand the number of channels that are available to you when you press the Channel (+) or (-) buttons on your remote control.

Closed Captioning • The broadcast standard feature that allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, Closed Captioning uses onscreen "text boxes" to show dialogue and conversations while a TV program is in progress.

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.

Direct Audio/Video Inputs • Connectors, located on the rear of the TV, used for the input of audio and video signals. These inputs are designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound-connection options.

Identify • The method by which a TV remote control searches and finds an operating code for another product (such as a VCR or a cable converter). After the code has been "identified," the TV remote control can operate and send commands to the other product.

Incredible Stereo (or Surround) • False acoustic management of the audio signal that produces a dramatic expansion of the wall of sound that surrounds the listener and heightens overall viewing pleasure.

Menu • An onscreen listing of feature controls that are available for you to adjust.

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

Onscreen Displays (OSD) • The wording or messages generated by the television (or VCR) to help you with specific feature controls (color adjustment or programming, for example).

Programming • The process of adding or deleting channel numbers into the television's memory circuits. Through programming, the TV "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Remote Control Sensor Window • The window or opening found on the television control panel and through which infrared remote control command signals are received.

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

Status/Exit Button • The remote-control function that allows you to quickly confirm what channel number is being viewed. **Status/Exit** also can be used to clear the television of onscreen 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 out-door 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 TVs and VCRs.



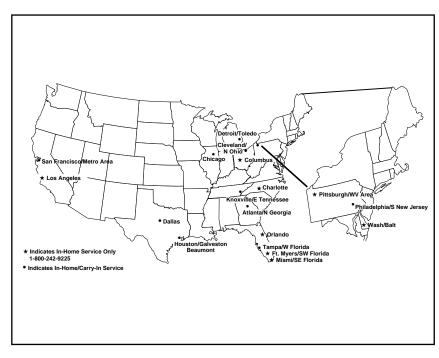
INDEX

Accessories/Optional Parts*Q/U-1	Glossary of Television Terms
Alternate Channel Button (A/CH)	
Antenna Hookup*Q/U-1	ImageMax TM
Audio Out Control	Incredible Surround
Audio Output Jacks	Language Control
Audio/Video Input Jacks	Picture Adjustment Controls
AutoChron TM Control*Q/U-4	Registration/Welcome
AutoLock TM	Remote Control
Access Code	Accessory Device Code Numbers
Blocking Channels	Battery Installation
Block No Rating Programs	Buttons
Block ON/OFF Control	Operating Accessory Devices (Direct Access)
Block Unrated Programs24	Operating Accessory Devices (Code Entry)
Movie Ratings	Operating Accessory Devices (Search)
Review AutoLock TM Settings	Using the Remote's VCR Buttons
TV Ratings	S-Video Input Jacks
Understanding AutoLock TM 18	Safety/Precautions
Viewing Blocked Programming/Channels27	SAP (Second Audio Program) Control
AutoPicture TM Controls	Sleep Timer Control
Auto Program Channels Control*Q/U-3	Start Time
AutoSound TM Controls	Activate Control
AVL (Audio Volume Leveler) Control	Channel Control
Balance Control	Control
Bass Control	Stereo/Mono Control
Blue Mute Control	Stop Time Control
Cable Box Connection	Surf Control
Cable TV Hookup*Q/U-1	Surround Sound (Connections)
Channel Edit Control	Table of Contents4
Channel Name Control*Q/U-4	Timer Display Control
Clock12	Troubleshooting
Closed Captioning Control	Treble Control
Component Video Input Jacks	Tuner Mode Control*Q/U-3
DVD (or similar device) Hookup	TV Keypad (Buttons)*Q/U-2
Dynamic Noise Reduction (DNR) Control	TV Speaker Control
External Speaker Connections	VCR Connections
Features	Volume Control
Format (Screen) Control 9	Warranty 52

^{*} Refer to the Quick Use and Installation Guide for information.

FACTORY SERVICE 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 á: 1-800-661-6162 (Francophone)

1-800-363-7278

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo

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

LLINOIS

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 MidAtlantic
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