

USER MANUAL

MAGNAVOX
SMART. VERY SMART.

Color Television
27MS5402/17

**Thank you for choosing Magnavox.
Need help fast?**



Read your User Manual and/or Quick-Use Guide first for quick tips that make using your Magnavox product more enjoyable. If you have read your instructions and still need assistance you may access our online help at

www.magnavox.com

or

call 1-800-705-2000
while with your product.

Model No.: _____

Serial No.: _____

MAGNAVOX

Return your Product Registration Card today to get the very most from your purchase.

Registering your model with MAGNAVOX makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once to ensure:

*Proof of Purchase

Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

*Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

*Additional Benefits of Product Ownership

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

MAGNAVOX

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

Dear MAGNAVOX product owner:

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

As a member of the MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.


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 MAGNAVOX product.

P.S. To get the most from your MAGNAVOX purchase, be sure to complete and return your Product Registration Card at once.

Know these
safety symbols



 This "bolt of lightning" indicates un-insulated 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 reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

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

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

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____


Serial No. _____

MAGNAVOX

Visit our World Wide Web Site at <http://www.magnavox.com>

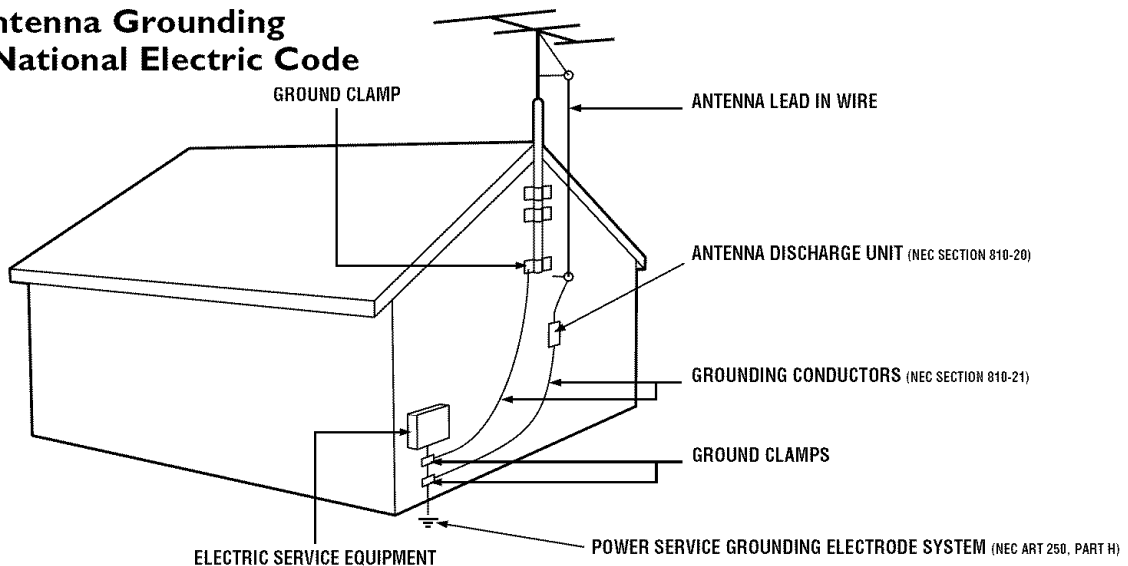
IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. **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.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **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 mast 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 Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
 - a) **Warning:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 - Install all batteries correctly, with + and - aligned as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.).
 - Remove batteries when the unit is not used for a long time.

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

Example of Antenna Grounding as per NEC - National Electric Code



CONTENTS

INTRODUCTION

Welcome/Registration of Your TV	2
Safety/Precautions	2-3
Features	4



INSTALLATION MENU

How to use the Language Controls	5
How to use the Tuner Mode Controls	5
How to use the Auto Program Controls	6
How to use the Channel Edit Controls	6
How to use the Name Controls	7-8



PICTURE MENU CONTROLS

How to use the Picture Menu Controls	9
--	---



SOUND MENU CONTROLS

How to use the Sound Menu Controls	10
--	----



FEATURE MENU CONTROLS

How to use the Timer Menu Controls	11
How to use the AutoChron™ Control	12
Understanding the AutoLock™ Controls	13
Setting up an AutoLock™ Access Code	14
How to lock channels using AutoLock™	15
How to clear all locked channels at the same time	16
How to block programming using the Movie Ratings Controls	17
How to block programming using the TV Ratings Controls	18
Other AutoLock™ Blocking options	19
Using the AutoLock™ Review screen	20
How to use the Format Control	21
How to use the Closed Captioning Controls	22
How to use the Rotation Control	23
How to use the Dynamic NR Control	24
How to use the Permanent OSD	24
How to use the SmartSurf™ Controls	25
How to use the Sleptimer Controls	26
How to use the SmartPicture™ Control	27
How to use the SmartSound™ Control	28



REMOTE CONTROL RELATED FEATURES

Using the Remote Control with accessory devices	
Direct Method	29
Code-Entry Method	31
Search Method	32
Direct-Entry Code list for accessory devices	33-35
Remote Control Accessory Device Specific Buttons	36



IMPORTANT INFORMATION

Troubleshooting	37
Care and Cleaning	38
Index	39
Limited Warranty	40

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.

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.

SmartPicture™ 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.

SmartSound™ allows you to select from four factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The four factory-set controls (Speech, Movie, Music, and Multimedia) 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.

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).

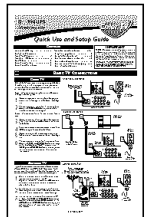
Sleep Timer automatically turns the TV OFF after a set amount of time that you choose.

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

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

QUICK USE AND SETUP GUIDE

Refer to the simple *Quick Use and Setup Guide* (supplied with your TV) for details on making **Connections and Remote Control Operation**.



SmartPicture, SmartSound, AutoChron, and Incredible Surround are trademarks of Philips Consumer Electronics Company.
Copyright © 2003 All rights reserved.

HOW TO USE THE INSTALLATION FEATURES



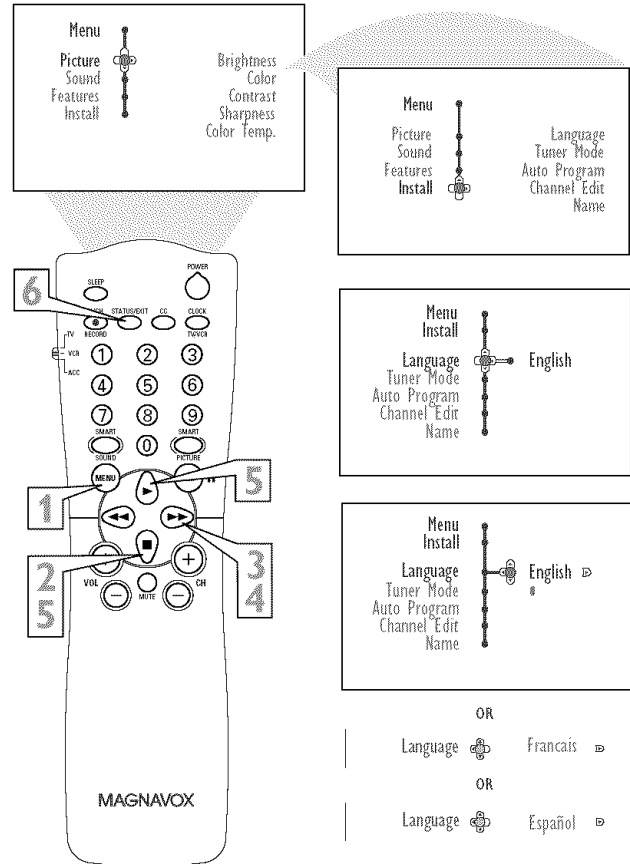
LANGUAGE

For our Spanish and French-speaking TV owners, an onscreen LANGUAGE option is present. The LANGUAGE control enables you to set the TV's onscreen menu to be shown in either English, Spanish, or French.

- 1 Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2 Press the **CURSOR DOWN** button repeatedly until Install is highlighted.
- 3 Press the **CURSOR RIGHT** button to shift the menu to the left and highlight Language.
- 4 Press the **CURSOR RIGHT** button to highlight the Language Control options.
- 5 Press the **CURSOR DOWN** or **CURSOR UP** button to select English, Español (Spanish), or Français (French).
- 6 Press the **STATUS/EXIT** button to remove the menu from the screen.

HELPFUL HINT

Remember, the LANGUAGE control makes only the TV's onscreen MENU items appear in English, Spanish, or French text. It does not change the other onscreen text features, such as Closed Captioning (CC), with TV shows.



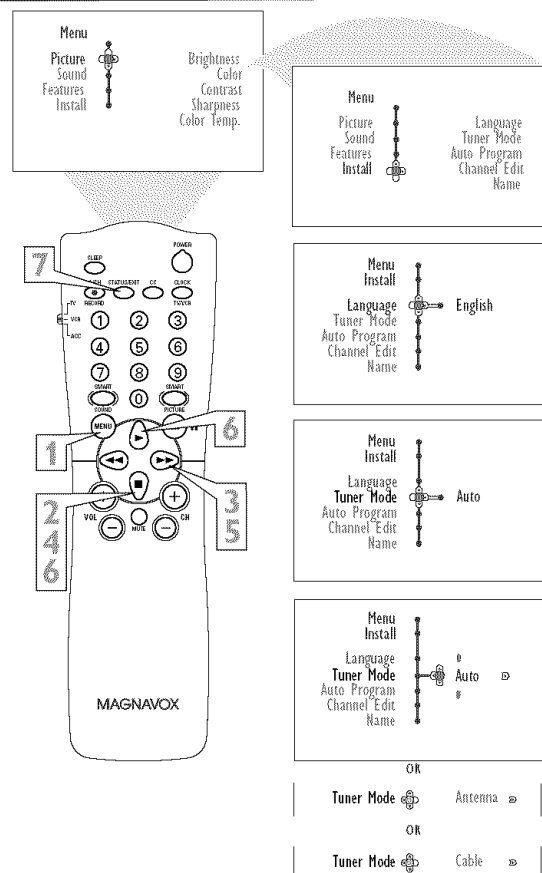
TUNER MODE

The Tuner Mode allows you to change the TV's signal input to Cable, Antenna, or Auto Mode. It's important for the TV to know what type of signal is connected, either Antenna or Cable.

- 1 Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2 Press the **CURSOR DOWN** button repeatedly until INSTALL is highlighted.
- 3 Press the **CURSOR RIGHT** button to shift the menu to the left.
- 4 Press the **CURSOR DOWN** button to select the Tuner Mode control.
- 5 Press the **CURSOR RIGHT** button to highlight the tuner options.
- 6 Press the **CURSOR UP** or **CURSOR DOWN** to select **Cable**, **Antenna**, or **Auto**. If Tuner Mode is set to **Auto**, Auto Program will detect whether or not cable input is present.
- 7 Press the **STATUS/EXIT** button to remove the menu from the screen.

HELPFUL HINT

When Cable is selected, channels 1-125 are available.
When Antenna is selected, channels 2-69 are available.





HOW TO USE THE INSTALLATION FEATURES

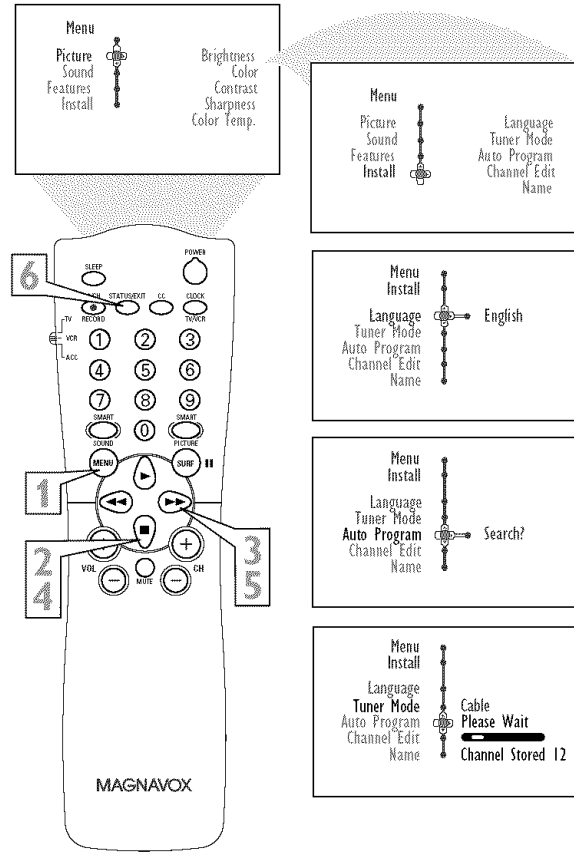
AUTO PROGRAM

Your TV can automatically set itself for local area (or cable TV) channels. This makes it easy for you to select only the TV stations in your area by pressing the CHANNEL (+) or (-) button.

- 1 Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2 Press the **CURSOR DOWN** button repeatedly until Install is highlighted.
- 3 Press the **CURSOR RIGHT** button to enter the Install menu. Language will be highlighted.
- 4 Press the **CURSOR DOWN** button repeatedly until Auto Program is selected. "Search ?" will appear.
- 5 Press the **CURSOR RIGHT** button to start the Auto Programming process.
- 6 Press the **STATUS/EXIT** button to remove the menu from the screen when the Auto programming process has finished.

HELPFUL HINT

After you've run Auto Program, check out the results. Press the CHANNEL (+) or (-) button and see which channels you can select. Remember, an antenna or cable TV signal must first be connected to your TV, see Quick-Use Guide for making connections.

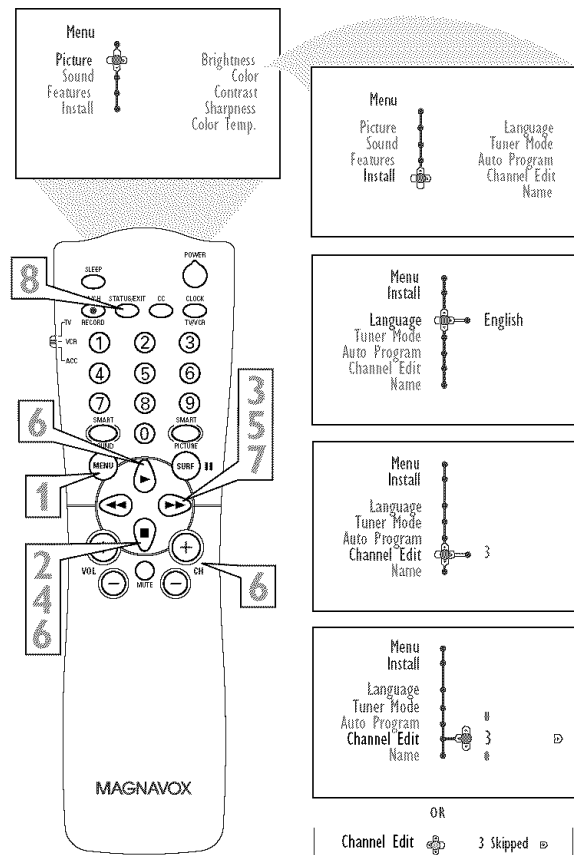


CHANNEL EDIT

Channel Edit makes it easy for you to add or delete channels from the list of channels stored in the TV's memory.

- 1 Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2 Press the **CURSOR DOWN** button repeatedly until Install is highlighted.
- 3 Press the **CURSOR RIGHT** button to enter the Install menu. Language will be highlighted.
- 4 Press the **CURSOR DOWN** button repeatedly until Channel Edit is selected.
- 5 Press the **CURSOR RIGHT** button to enter the Channel Edit mode.
- 6 Press the **CURSOR UP** or **CURSOR DOWN** buttons to scroll through the list of available channels, you can also press the CH+ or CH- to scroll through the list of channels. Or, press the numbered buttons to select a specific numbered channel.
- 7 With the channel you want to edit selected, press the **CURSOR RIGHT** button to activate the "skipping" of the channel. The skipped channel will not appear when changing channels.
- 8 Press the **STATUS/EXIT** button to remove the onscreen menu from the screen.

Note: When you want to add a channel that has been skipped, repeat steps 1-4. By pressing the CURSOR RIGHT button skipped is deactivated.



HOW TO USE THE INSTALLATION FEATURES

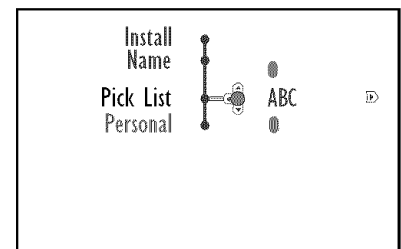
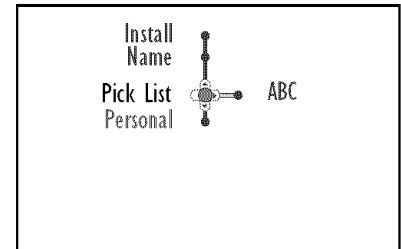
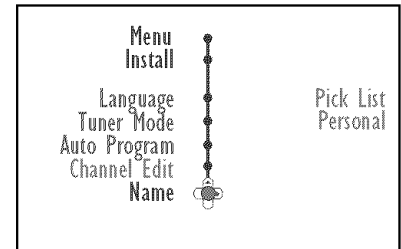
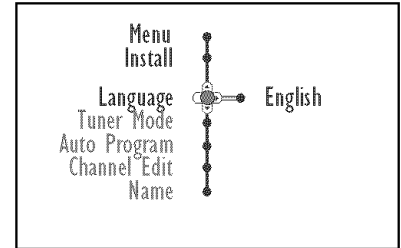
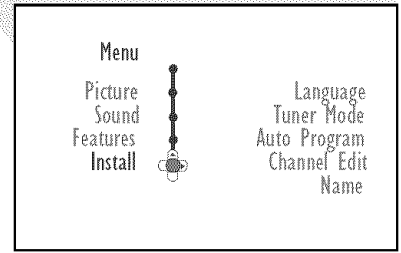
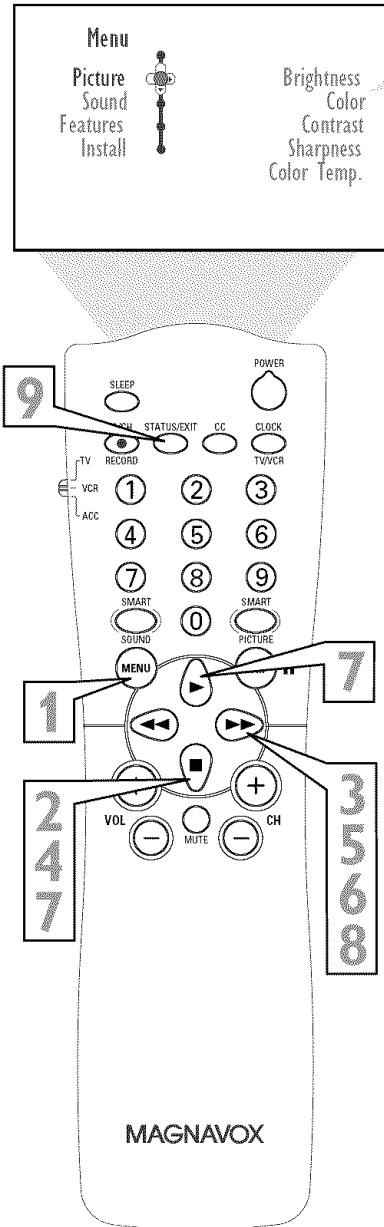


NAME CONTROL (PICK LIST)

The channel NAME feature allows you to list the “call” letters of your favorite stations beside their channel numbers when they appear on the screen. The TV has in memory a list of the 50 most popular channel names (for example: ABC, CBS, FOX, NBC, etc.). You can also enter a custom name (up to five characters) see next page for details.

Tune to the specific channel you want to name, then follow the steps below.

- 1** Press the MENU/SELECT button on the remote control to show the onscreen menu.
- 2** Press the CURSOR DOWN button repeatedly until Install is highlighted.
- 3** Press the CURSOR RIGHT button to enter the Install menu. Language will be highlighted.
- 4** Press the CURSOR DOWN button repeatedly until Name is selected.
- 5** Press the CURSOR RIGHT button to move to enter the Name menu.
- 6** With Pick List highlighted, press the CURSOR RIGHT button to enter the “Pick List” selections.
- 7** Press the CURSOR UP or CURSOR DOWN buttons to scroll through a list of options.
- 8** After you have selected a name for the channel, press the CURSOR RIGHT button to save the name in the TV’s memory, it will appear in the upper left hand corner of the screen.
- 9** Press the STATUS/EXIT button to remove the menu from the screen.



HELPFUL HINT

The five characters that the channel NAME feature allows you to input can be letters, a dash (-), or the numbers 0 to 9. The Channel Label or Name will appear when a channel change is made or when the STATUS/EXIT button is pressed.



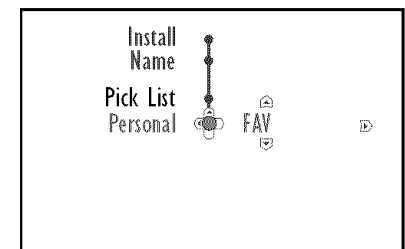
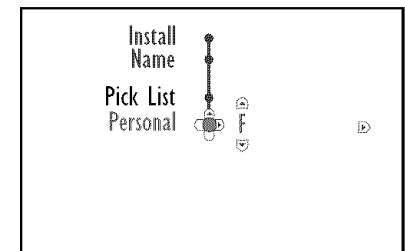
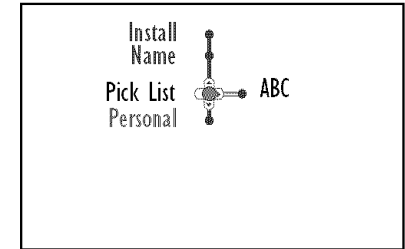
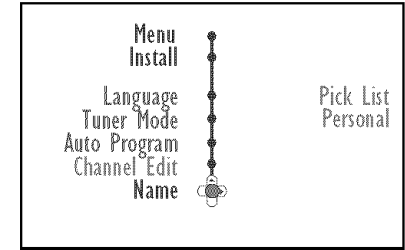
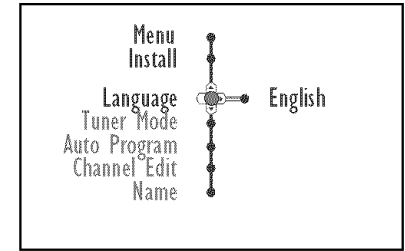
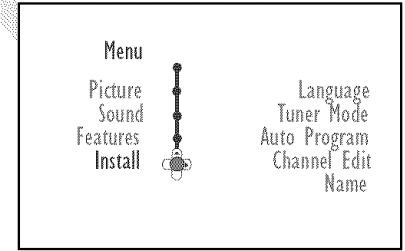
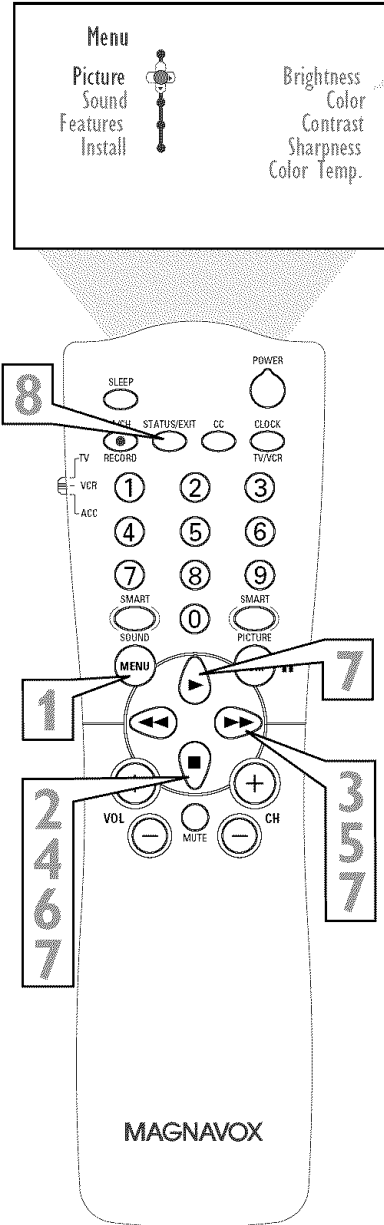
HOW TO USE THE INSTALLATION FEATURES

NAME CONTROL (PERSONAL)

The channel NAME feature allows you to list the "call" letters of your favorite stations beside their channel numbers when they appear on the screen. You can enter a custom name (up to five characters) for each channel.

Tune to the specific channel you want to name, then follow the steps below.

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR DOWN** button repeatedly until Install is highlighted.
- 3** Press the **CURSOR RIGHT** button to enter the Install menu. Language will be highlighted.
- 4** Press the **CURSOR DOWN** button repeatedly until Name is selected.
- 5** Press the **CURSOR RIGHT** button to move to enter the Name menu.
- 6** Press the **CURSOR DOWN** button to select Personal.
- 7** Press the **CURSOR RIGHT** button again; then press the **CURSOR UP** or **CURSOR DOWN** buttons to scroll through a list of options for the first character (A through Z, 0 through 9). Press the **CURSOR RIGHT** button, and repeat for the second, third, fourth, and fifth characters.
- 8** Press the **STATUS/EXIT** button to remove the menu from the screen.



HELPFUL HINT

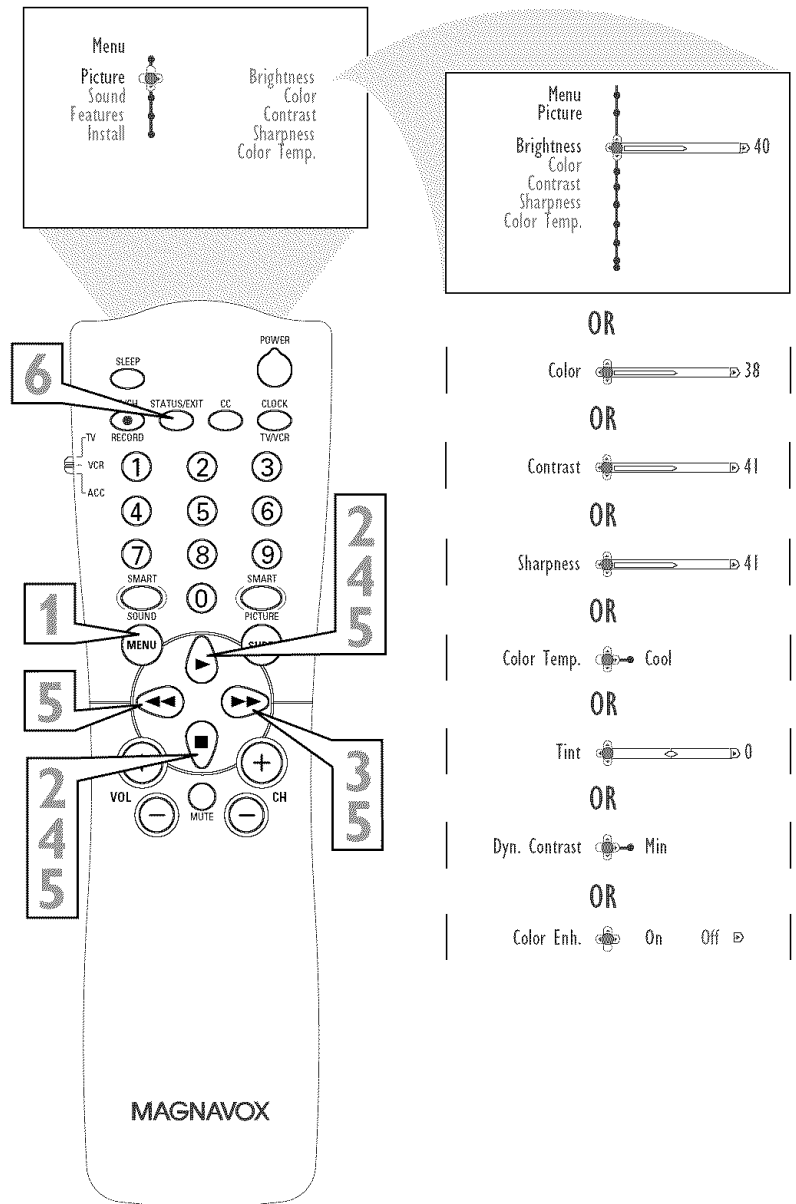
The five characters that the channel NAME feature allows you to input can be letters, a dash (-), or the numbers 0 to 9. The Channel Label or Name will appear when a channel change is made or when the STATUS/EXIT button is pressed.

HOW TO USE THE PICTURE ADJUSTMENT CONTROLS



To adjust your TV picture controls, select a channel and follow these steps.

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
 - 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight PICTURE.
 - 3** Press the **CURSOR RIGHT** button to enter the Picture menu.
 - 4** Press the **CURSOR UP** or **CURSOR DOWN** button to select the picture adjustment you want to change: Brightness, Color, Contrast, Sharpness, Color Temp., Tint, Dyn. Contrast, or Color Enh.
- 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, Dyn. Contrast, or Color Enh.
- 5** Press the **CURSOR LEFT** or **CURSOR RIGHT** button to adjust the selected control. OR, if Color Temp. or Dyn. Contrast is chosen, press the **CURSOR UP** or **CURSOR DOWN** to select the preferred mode. If Color Enh. is selected press the **CURSOR RIGHT** button repeatedly to toggle the various modes.
 - 6** Press the **STATUS/EXIT** button when finished to remove the menu from the screen.



HELPFUL HINT

NOTE: The Tint Controls will not be available for adjustments when tuned to the AV1/AV2/AV3 Inputs.

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

Color – adds or eliminates color.

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

Sharpness – improves the detail in the picture.

Color Temp. offers NORMAL, COOL, or WARM picture preferences. (Normal will keep the whites, white; Cool will make the whites, bluish; and Warm will make the whites, reddish.)

Tint – adjusts the picture to obtain natural skin tones.

Dyn(amic) Contrast – helps to “sharpen” the picture quality by making the dark portions of the picture darker and the light portions more noticeable. You can select from the various modes: Off, Min, Med, and Max.

Color Enh(ancement) – increases the intensity of the color when “On” is selected.



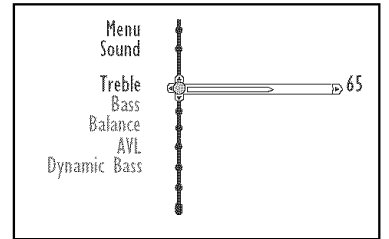
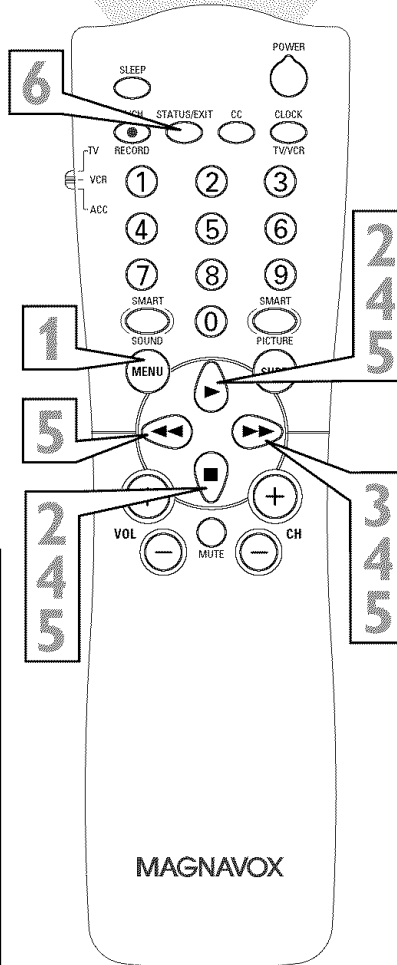
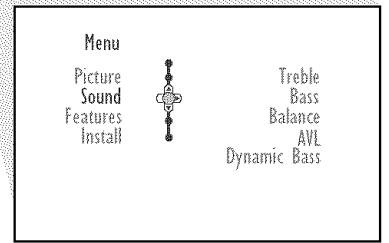
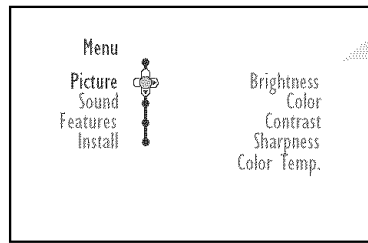
HOW TO USE THE SOUND ADJUSTMENT CONTROLS

To adjust your TV sound controls, select a channel and follow these steps.

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight Sound.
- 3** Press the **CURSOR RIGHT** button to enter the sound menu.
- 4** Press the **CURSOR UP** or **CURSOR DOWN** button to select the sound adjustment you want to change: Treble, Bass, Balance, AVL, Dynamic Bass, Incr. Surround, Stereo, SAP, Audio Out, and Speaker. **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 Incr. Surround, Stereo, SAP, Audio Out, or Speaker.
- 5** Press the **CURSOR LEFT** or **CURSOR RIGHT** button to adjust the selected control. Or, if Incr. Surround is chosen, press the **CURSOR UP** or **CURSOR DOWN** to select the preferred mode. If AVL, Stereo, SAP, Audio Out, or Speaker is selected press the **CURSOR RIGHT** button repeatedly to toggle the various modes.
- 6** Press the **STATUS/EXIT** button when finished to remove the menu from the screen.

HELPFUL HINT

- Treble** – enhances the high frequency sounds.
- Bass** – enhances the low frequency sounds.
- Balance** – adjusts the level of sound coming from the left and right speakers.
- AVL (Auto Volume Leveler)** - when On, AVL will level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes.
- Dynamic Bass** - enhances the low frequency sounds.
- Incr. Surround** - adds greater depth and dimension to TV sound. Select from Incr. Surround or Stereo sound (if Stereo) or Spatial or Mono (if Mono).
- SAP (Secondary Audio Programming)**– sent as a third audio channel, a SAP signal can be heard apart from the current TV program sound. Note: If SAP is not available, “Not Available” will appear on the screen.
- Audio Out** – select from Variable or Fixed. When Variable is selected, change the volume at the TV using the TV’s remote control. If fixed is selected, change the volume at the external device’s audio controls.
- Speaker** -turn the TV speaker On or Off. When a Hi-Fi system is used, turn the TV speaker Off to hear the sound from the Hi-fi system instead of the TV’s speakers. When no external audio system is connected, On must be selected to hear sound coming from the TV.



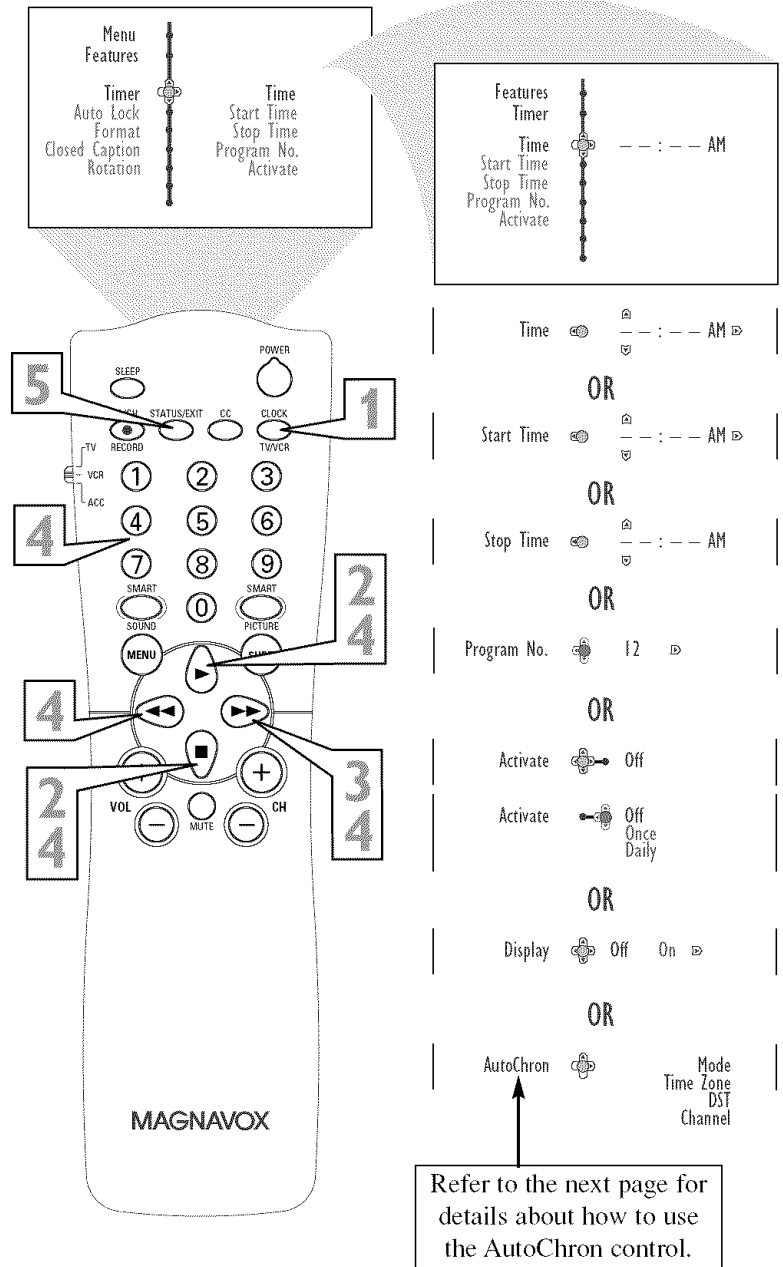
- OR
- Bass
- OR
- Balance
- OR
- AVL Off On
- OR
- Dynamic Bass Off On
- OR
- Incr. Surround Mono Spatial Incr. Surround
- OR
- Stereo Stereo Mono
- OR
- SAP Off On
- OR
- Audio Out Fixed Variable
- OR
- Speaker Off On

HOW TO USE THE TIMER MENU CONTROLS



Your television comes with an onscreen clock. The TV can also be set to turn on or off at a specific time and tune to a specific channel when it powers itself on.

- 1** Press the **CLOCK** button on the remote control to display the Timer onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight one of the Timer controls. These controls are Time, Start Time, Stop Time, Program No., Activate, Display, and AutoChron.
- 3** Press the **CURSOR RIGHT** button to display the menu for the selected item.
- 4** Make adjustments to the selected items by following the steps below.
 - Time:** Enter the current time using the Numbered buttons. Use the CURSOR UP and CURSOR DOWN buttons to toggle the AM and PM setting.
 - Start Time:** Use the numbered buttons to enter the time you want the TV to turn itself On. Use the CURSOR UP and CURSOR DOWN buttons to toggle the AM and PM setting.
 - Stop Time:** Use the numbered buttons to enter the time you want the TV to turn itself Off. Use the CURSOR UP and CURSOR DOWN buttons to toggle the AM and PM setting.
 - Program No.:** Use the NUMBERED buttons or the CH + or CH- buttons to enter the desired start-up channel. You can also press the CURSOR RIGHT or CURSOR LEFT buttons to enter the desired start-up channel.
 - Activate:** Set the timer to turn itself On (Once or Daily) or Off. Press the CURSOR UP or CURSOR DOWN buttons to select Once, Daily, or Off.
 - Display:** Press the CURSOR RIGHT or CURSOR LEFT to toggle between On or Off. If On is selected, the time will be displayed all the time when the TV is on. When Off is selected, the time will only appear when the STATUS/EXIT button is pressed.
 - AutoChron:** For use of the AutoChron feature, refer to the section on "How to Use the AutoChron Control" see next page.
- 5** Press the **STATUS/EXIT** button to remove the menu from the screen.



Refer to the next page for details about how to use the AutoChron control.



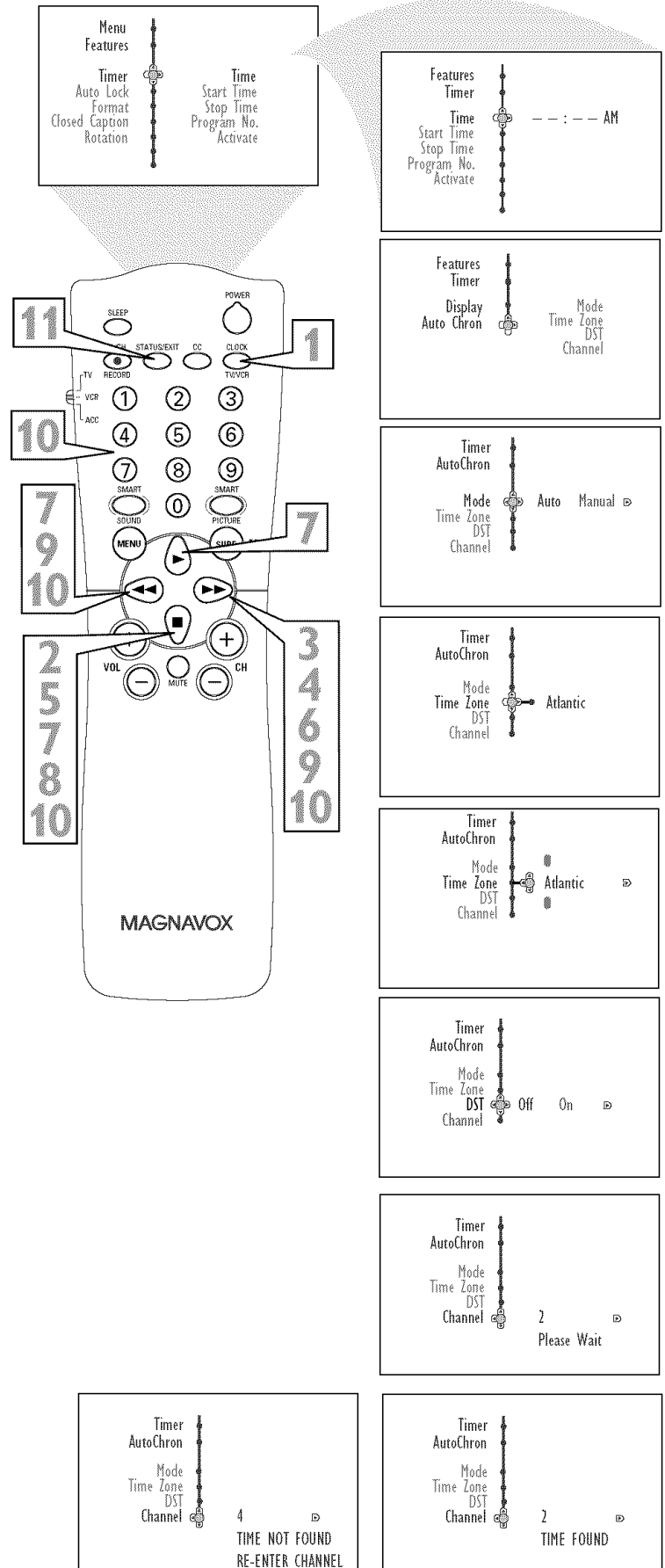
HOW TO USE THE TIMER MENU CONTROLS (CONT'D)

AUTO CHRON

AutoChron™ can automatically set the TV's onscreen clock. Since the time is received from a broadcast signal, you must be sure that a cable TV or Antenna signal is present before you use the AutoChron™ feature.

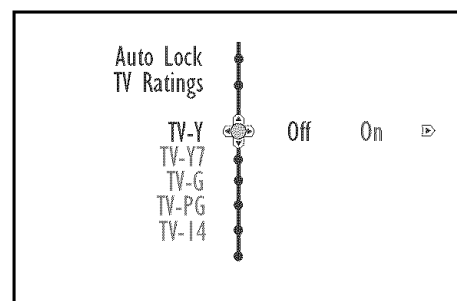
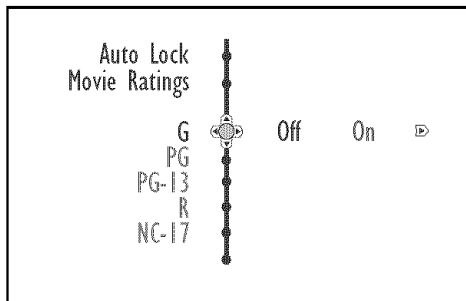
- 1** Press the **CLOCK** button on the remote control to display the Timer onscreen menu.
- 2** Press the **CURSOR DOWN** button until AutoChron is selected.
- 3** Press the **CURSOR RIGHT** button to display the AutoChron menu. Mode will be highlighted.
- 4** Press the **CURSOR RIGHT** button to display toggle between Manual and Auto.
- 5** Press the **CURSOR DOWN** button to select Time Zone.
- 6** Press the **CURSOR RIGHT** button to enter the Time Zone menu.
- 7** Press the **CURSOR UP** or **CURSOR DOWN** buttons to select the correct Time Zone. To activate the Time Zone, press the **CURSOR LEFT** button.
- 8** Press the **CURSOR DOWN** button to select DST (Daylight Savings Time).
- 9** If your time zone uses Daylight Savings Time, press the **CURSOR RIGHT** or **CURSOR LEFT** button to toggle between Off or On, and select On.
- 10** Press the **CURSOR DOWN** to select Channel. Then use the **NUMBERED** buttons to enter your local PBS channel or any local channel that transmits the current time. You can also use the **CURSOR RIGHT** or **CURSOR LEFT** buttons to change channels one at a time. If **TIME FOUND** appears, the process is finished. If not, follow the onscreen instructions, and try another channel.
- 11** Press the **STATUS/EXIT** button when finished to remove the onscreen menu from the TV screen.

NOTE: If the AutoChron™ control is unable to find the time being transmitted on any channels, you may have to enter the time manually. Refer to the previous page for details.





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 AutoLock™ 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 AutoLock™ feature.

AutoLock™ 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.

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.)

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).

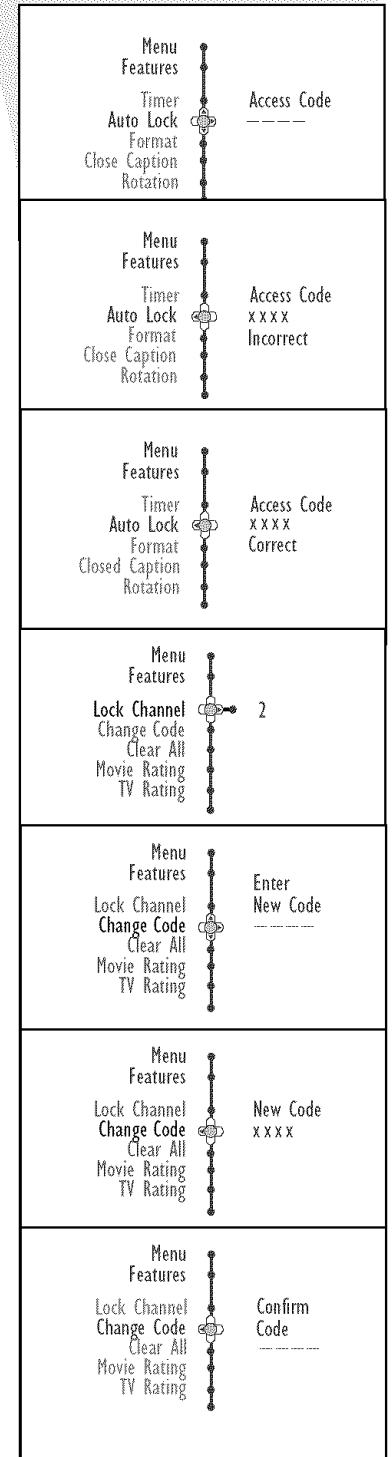
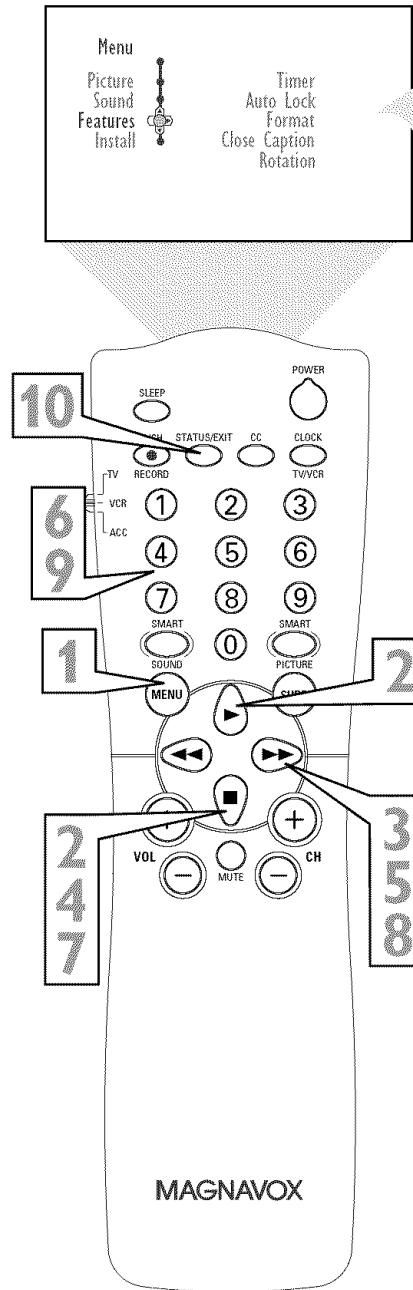
TV-MA: (Mature Audience Only -- This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) This type of programming contains one or more of the following: graphic violence (V); explicit sexual situations (S); or crude, indecent language (L).



SETTING UP AN AUTOLOCK™ 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.

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight Features.
- 3** Press the **CURSOR RIGHT** button to display the Features menu.
- 4** Press the **CURSOR DOWN** button to highlight the AutoLock control.
- 5** Press the **CURSOR RIGHT** button to enter the AutoLock mode. “Access Code ----” will appear.
- 6** Using the numbered buttons on the remote control, enter the access code. If you do not know your code, **0,7,1,1** is the default code. After you have entered the code once, *Incorrect* will appear on the screen. Enter the code a second time, *Correct* will appear. When “Correct” appears, the AutoLock menu is accessible and you can proceed to change the access code.
- 7** Press the **CURSOR DOWN** button to highlight Change Code.
- 8** Press the **CURSOR RIGHT** button to enter the Change Code menu, “Enter New Code ----” will appear. Enter a new **four-digit code** using the number buttons, “Confirm Code----” will appear on the screen.
- 9** Using the numbered buttons, re-enter your new four-digit code, “Confirm Code” will appear. After re-entering your new code, *Correct* will flash on the screen briefly and the highlight bar goes back to AutoLock.
- 10** Press the **STATUS/EXIT** button to remove the menu from the screen.



NOTE TO PARENTS: It isn’t possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code has been changed without your knowledge, then you will become aware that blocked channels may have been viewed.

HELPFUL HINT

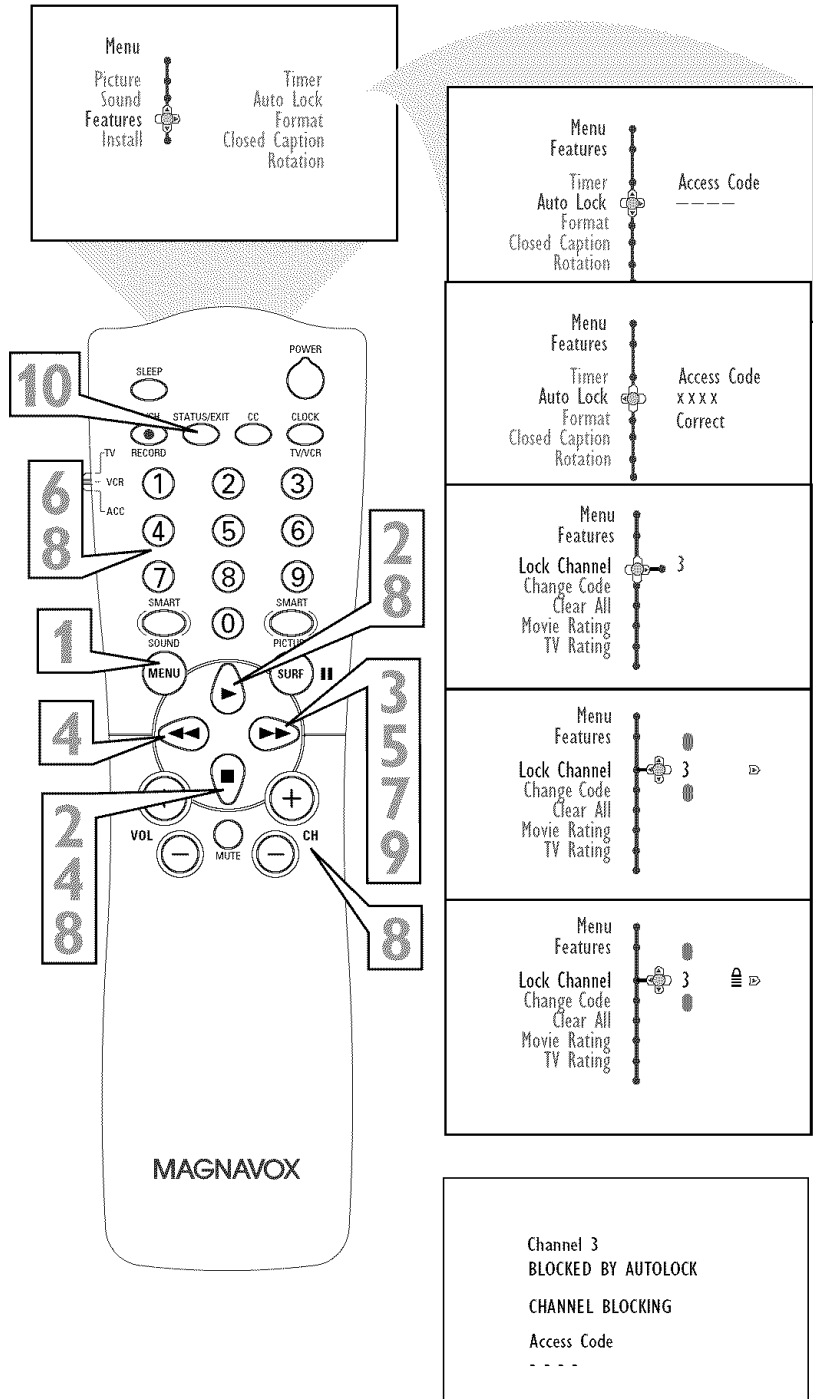
Remember that 0711 is the default AutoLock™ code. If your access code has been changed by someone other than you (a child, for example) or you have forgotten the code, you can always get in by inputting the default code.

HOW TO LOCK CHANNELS USING AUTOLOCK™



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.

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
 - 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight Features.
 - 3** Press the **CURSOR RIGHT** button to display the Features menu.
 - 4** Press the **CURSOR DOWN** button to highlight the AutoLock™ control.
 - 5** Press the **CURSOR RIGHT** button again display the AutoLock menu.
 - 6** Enter your four-digit **ACCESS CODE**. Correct will flash very briefly and the AutoLock™ will be accessible.
 - 7** Press the **CURSOR RIGHT** to enter the Lock Channel menu.
 - 8** Using the numbered buttons or the **CH+** or **CH-** buttons enter the channel you wish to lock. You can also use the **CURSOR UP** or **CURSOR DOWN** buttons to scroll to the channel you wish to block.
 - 9** Press the **CURSOR RIGHT** buttons to activate the locking of a channel. A padlock image appears to the right of the channel number.
- Repeat steps 8 and 9 for any channels you want to lock.
- 10** Press the **STATUS/EXIT** button to remove the menu from the screen.



NOTE TO PARENTS: It isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code has been changed without your knowledge, then you will become aware that blocked channels may have been viewed.

HELPFUL HINT

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.

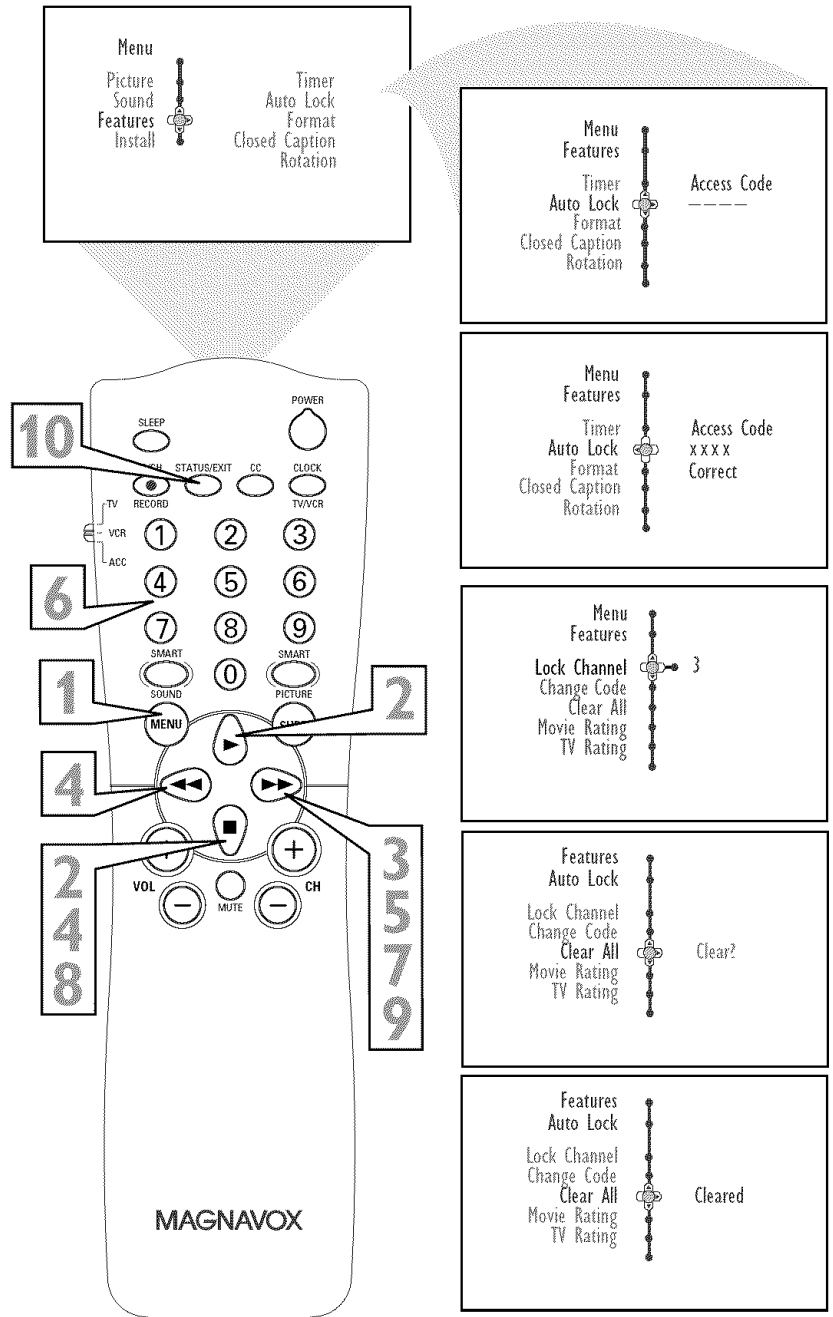
If your access code is entered on a blocked channel, the current channel along with all other blocked channels will become unblocked until the TV is powered off. Blocked channels will not appear when the Channel + or - buttons are pressed.



HOW TO CLEAR ALL LOCKED CHANNELS AT THE SAME TIME

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 AutoLock™ feature by using the Clear All control or by entering your access code.

- 1** Press the MENU/SELECT button on the remote control to show the onscreen menu.
- 2** Press the CURSOR UP or CURSOR DOWN button to highlight Features.
- 3** Press the CURSOR RIGHT button to display the Features menu.
- 4** Press the CURSOR DOWN button to select the AutoLock™ control.
- 5** Press the CURSOR RIGHT button again to highlight ACCESS CODE.
- 6** Enter your four-digit Access Code, "Correct" will briefly appear on the screen and the AutoLock menu will be accessible.
- 7** Press the CURSOR RIGHT button to enter the AutoLock menu.
- 8** Press the CURSOR DOWN button to select Clear All. Clear? will appear on the screen.
- 9** Press the CURSOR RIGHT button to activate the clearing of all channels.
- 10** Press the STATUS/EXIT button to remove the menu from the screen.



HELPFUL HINT

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

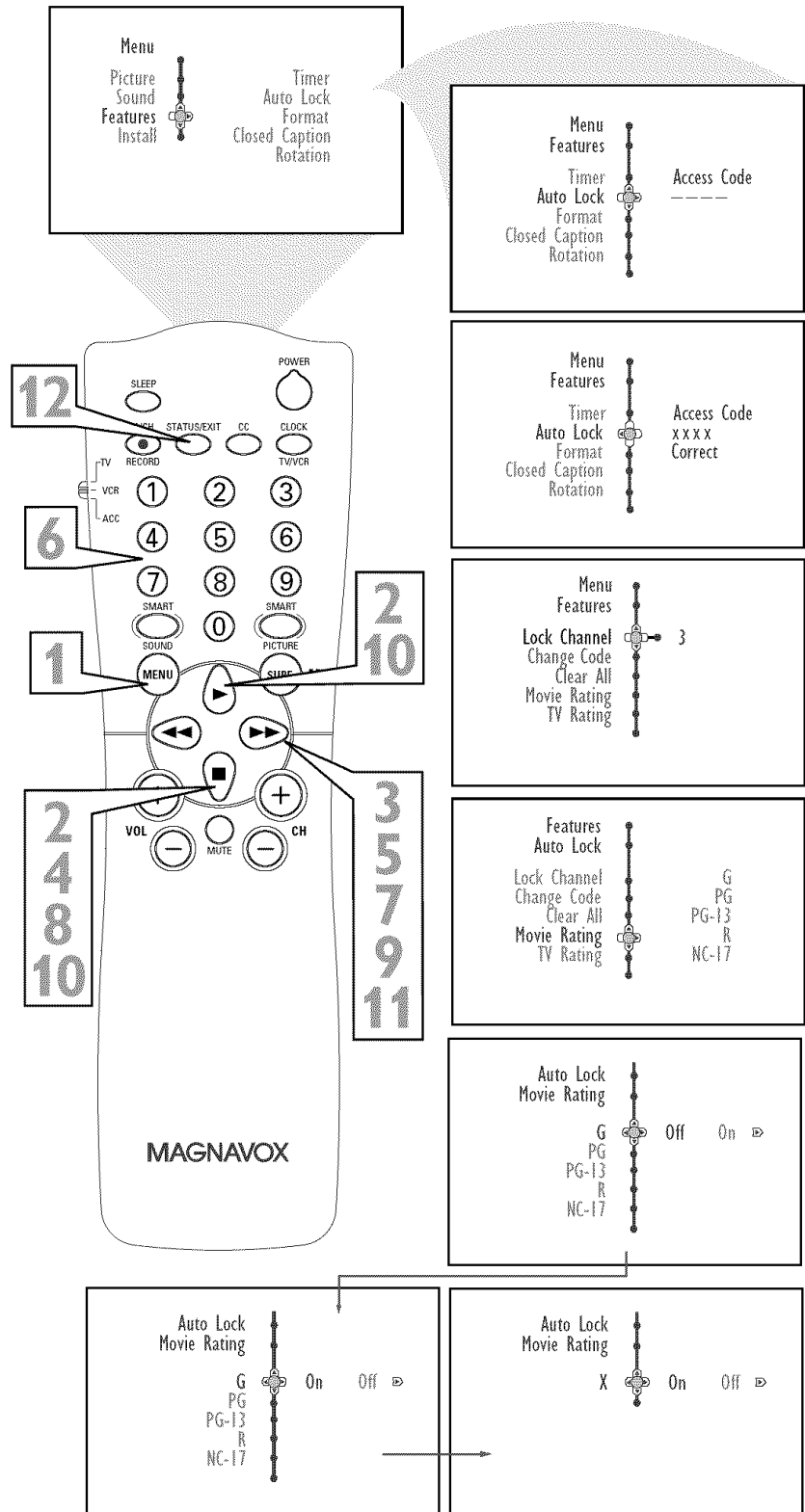
NOTE: This will unblock ALL channels until the TV is shut OFF. When powered back ON, all previously blocked channels will be blocked again.

BLOCKING PROGRAMS BASED ON MOVIE RATINGS



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

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight Features.
- 3** Press the **CURSOR RIGHT** button to display the Features menu.
- 4** Press the **CURSOR DOWN** button to highlight the AutoLock™ control.
- 5** Press the **CURSOR RIGHT** button again to highlight Access Code.
- 6** Enter your four-digit Access Code. Correct will flash very briefly and the menu will move to the left with the AutoLock menu now accessible.
- 7** Press the **CURSOR RIGHT** button to display the AutoLock menu.
- 8** Press the **CURSOR DOWN** repeatedly until Movie Rating is highlighted.
- 9** Press the **CURSOR RIGHT** button and the Rating menu shifts to the left with *G* highlighted.
- 10** Press the **CURSOR UP** or **DOWN** buttons to highlight each rating you want.
- 11** 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.
- 12** Press the **STATUS/EXIT** button to remove the menu from the screen.



HELPFUL HINT

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.

All Movie Ratings can be turned ON or OFF.

Refer to page 13 for Movie Rating definitions.



BLOCKING PROGRAMS BASED ON TV RATINGS

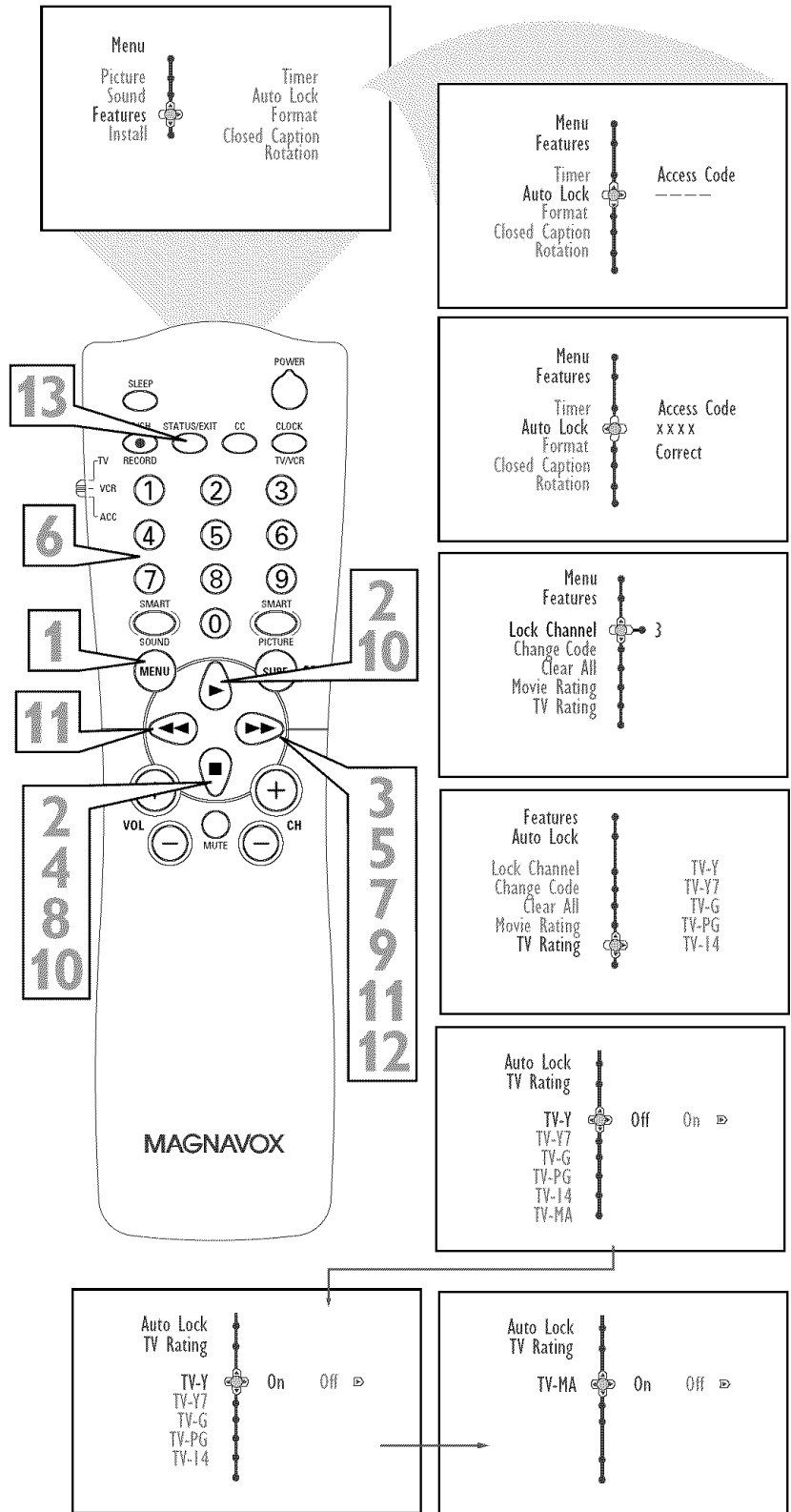
You can select specific TV ratings that you want to censor by following these steps.

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight Features.
- 3** Press the **CURSOR RIGHT** button to display the Features menu.
- 4** Press the **CURSOR DOWN** button to highlight the AutoLock™ control.
- 5** Press the **CURSOR RIGHT** button again to highlight Access Code.
- 6** Enter your four-digit Access Code. Correct will flash very briefly and the menu will move to the left with the AutoLock menu now accessible.
- 7** Press the **CURSOR RIGHT** button to display the AutoLock menu.
- 8** Press the **CURSOR DOWN** button repeatedly until TV Rating is highlighted.
- 9** Press the **CURSOR RIGHT** button to enter the TV RATING menu.
- 10** Press the **CURSOR UP** or **DOWN** to select a desired rating (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA).
- 11** Press the **CURSOR RIGHT** or **LEFT** 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. (Refer to page 13 for definitions.)

- 12** To access these subratings, with the main rating selected, **press the CURSOR RIGHT**. Then, repeat steps 8 and 9 to turn the sub-ratings ON or OFF.

- 13** Press the **STATUS/EXIT** button to remove the menu from the screen.



HELPFUL HINT

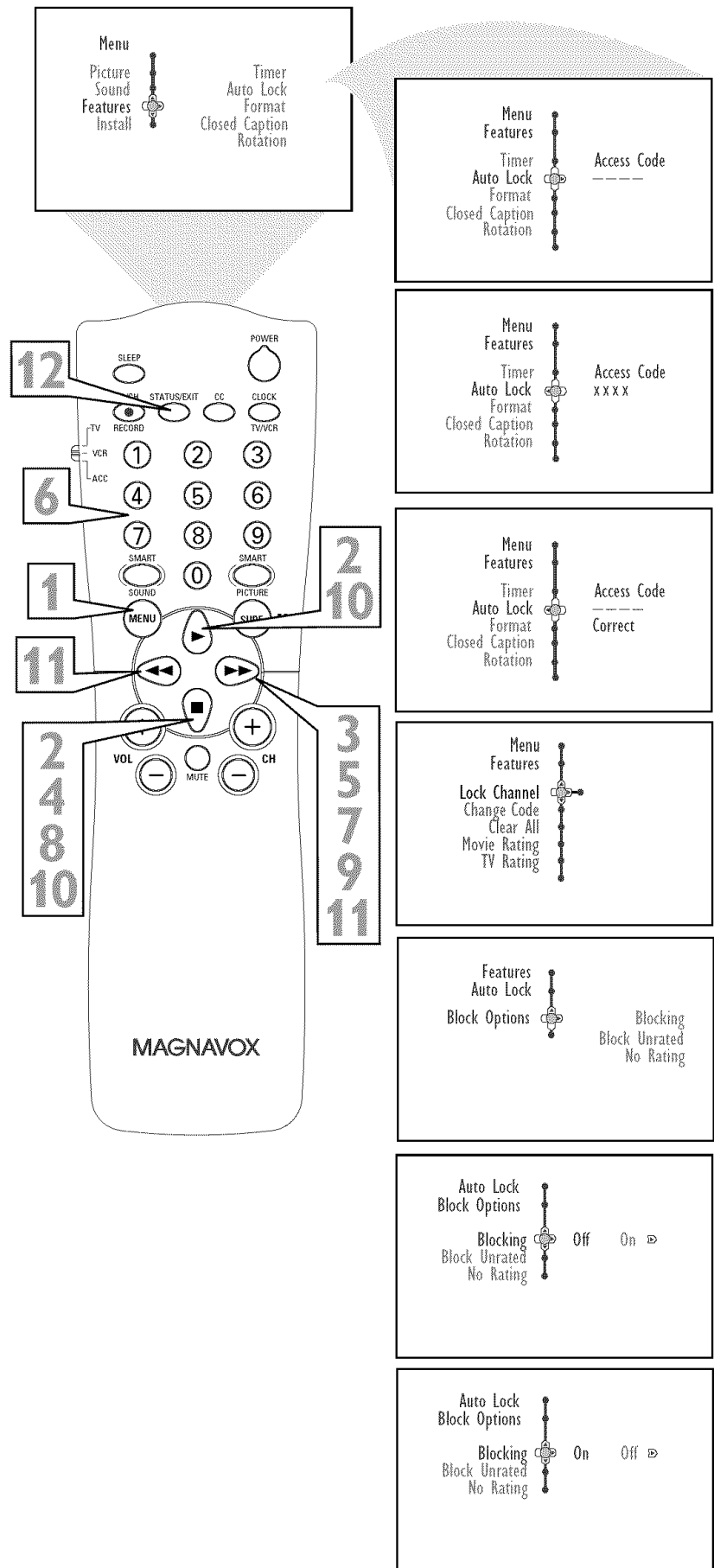
When a rating is turned ON, all higher ratings also will be turned on automatically. For example, if the TV-Y7 rating is turned on, the TV-14 and TV-X ratings also will be turned on.

OTHER AUTOLOCK™ BLOCKING OPTIONS



The AutoLock™ control offers the viewer other blocking options as well! With Block Options, the censoring can be turned On or Off.

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight Features.
- 3** Press the **CURSOR RIGHT** button to display the Features menu.
- 4** Press the **CURSOR DOWN** button to highlight the AutoLock™ control.
- 5** Press the **CURSOR RIGHT** button again to highlight Access Code.
- 6** Enter your four-digit Access Code. Correct will flash very briefly and the menu will move to the left with the AutoLock menu now accessible.
- 7** Press the **CURSOR RIGHT** button to display the AutoLock menu.
- 8** Press the **CURSOR DOWN** button repeatedly until Block Options is highlighted.
- 9** Press the **CURSOR RIGHT** button to enter the Block Options menu.
- 10** Press the **CURSOR UP** or **DOWN** buttons to select the desired block option.
Blocking: Might be called the “master switch” for AutoLock™. When On, ALL blocking/censoring will take place. When Off, ALL blocking is disabled.
Block Unrated: ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to On and the Blocking feature is set to OFF.
No Rating: ALL programming with NO content advisory data can be blocked if set to On and the Blocking feature is set to OFF.
- 11** Press the **CURSOR RIGHT** or **LEFT** to toggle **BLOCKING ON** or **OFF**.
- 12** Press the **STATUS/EXIT** button to remove the menu from the screen.



HELPFUL HINT

Remember, 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.



USING THE AUTOLOCK™ REVIEW SCREEN

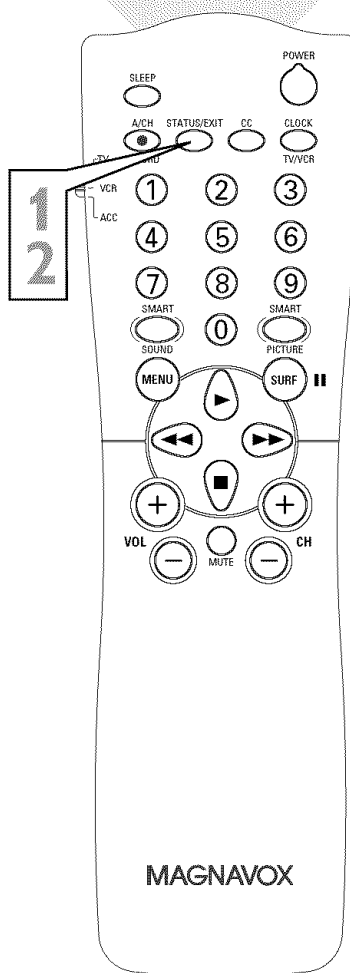
To remind you which rating you have locked and which Block Options you have selected, a review screen is available to review your AutoLock™ settings. To access this screen follow the steps below.

- 1 Press the STATUS/EXIT button on the 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.

- 2 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.

Movie Rating	-	TV Rating	-
	-		Y7
	-		TV-G
	R		TV-PG
	NC-17		TV-14
	X		TV-MA
Block Unrated	Off		
No Rating	Off		



HELPFUL HINT

The AutoLock™ status screen will only appear if the Block option is set to On. See previous page for details.

AutoLock is set to Off by default.

This display will appear after Step One (above) is completed if the AutoLock™ Block Option is set to **On**.

Movie Rating	-	TV Rating	-
	-		TV-Y7
	-		TV-G
	R		TV-PG
	NC-17		TV-14
	X		MA
Block Unrated	Off		
No Rating	Off		

This display will appear after Step One (above) is completed if the AutoLock™ Block Option is set to **Off**.

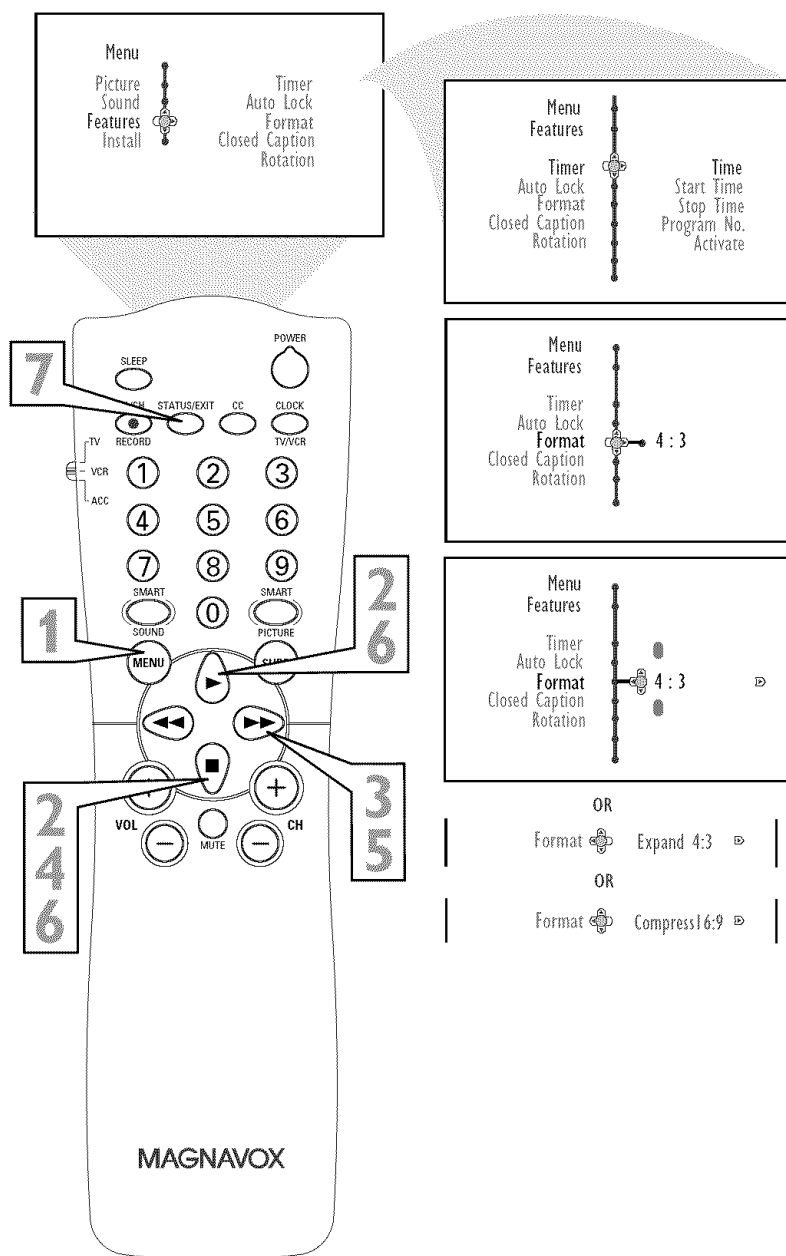
AutoLock DISABLED

HOW TO USE THE FORMAT CONTROLS



You can change the screen format size to match the type of program you're watching. Select the normal 4:3, Expand 4:3, or Compress 16:9. Compress 16:9 allows movies to be viewed in their full width (known as letter-box style).

- 1** Press the **MENU/SELECT** button on the remote control to show the on-screen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** twice to highlight Features.
- 3** Press the **CURSOR RIGHT** and the menu will shift to the left.
- 4** Press the **CURSOR DOWN** repeatedly until the Format control is highlighted.
- 5** Press the **CURSOR RIGHT** button to enter the Format menu.
- 6** Press the **CURSOR UP** or **CURSOR DOWN** repeatedly to toggle among the screen format sizes – 4:3, Expand 4:3, and Compress 16:9.
- 7** Press the **STATUS/EXIT** button to remove the menu from the screen.



IMPORTANT NOTE:

Some DVD Discs are encoded with as much as 30% more video information to give the viewer the best possible picture quality. With the DVD Player in the 16:9 picture format, the playback of this type of disc (containing extra video information), can produce a number of small white lines in the upper portion of the black letterbox area. With some of these discs, this situation is unavoidable and it does not require a service call.



HOW TO USE THE CLOSED CAPTION CONTROLS

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.

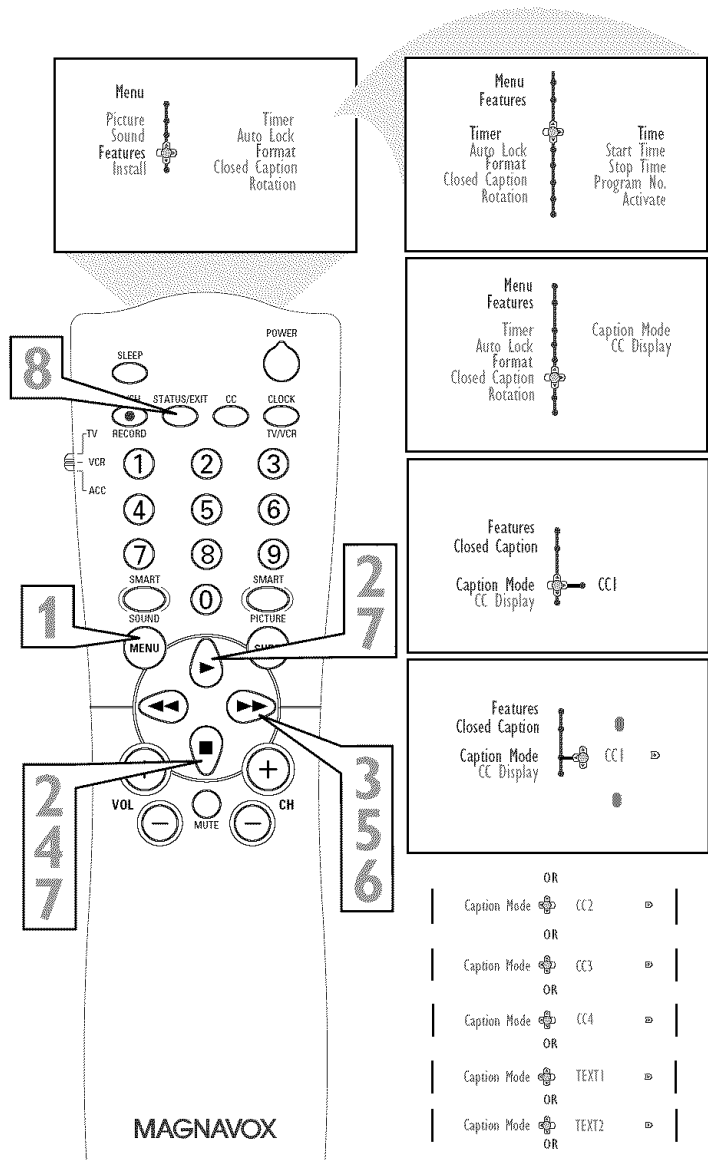
- 1** Press the **MENU/SELECT** button on the remote control to show the on-screen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** twice to highlight Features.
- 3** Press the **CURSOR RIGHT** button, the menu will shift to the left.
- 4** Press the **CURSOR DOWN** repeatedly until the Closed Caption control is highlighted.
- 5** Press the **CURSOR RIGHT** again. The menu will shift to the left and Caption Mode will be highlighted.
- 6** Press the **CURSOR RIGHT** to highlight Caption Modes.
- 7** Press the **CURSOR UP** or **DOWN** to select a Caption Mode: CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, or TEXT4. CC Display turns text OFF or ON if the TV station broadcasting on the channel is making Closed Captioning available. With CC Display highlighted, press the **CURSOR RIGHT** to toggle Closed Captioning ON, OFF, or CC Mute.

NOTE: You also can press the CC button on the remote control to turn the CC Text option On or Off.

- 8** Press the **STATUS/EXIT** button to remove the menu from the screen.

NOTE: When Closed Captioning is turned On, the screen will automatically change to the Wide screen format to allow text to fit on 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.



CAPTION Mode Example Display



TEXT Mode Example Display - The TV screen will be blocked from viewing.



- OR
- Caption Mode CC2
- OR
- Caption Mode CC3
- OR
- Caption Mode CC4
- OR
- Caption Mode TEXT1
- OR
- Caption Mode TEXT2
- OR
- Caption Mode TEXT3
- OR
- Caption Mode TEXT4

- Features
- Close Caption
- Caption Mode
- CC Display Off

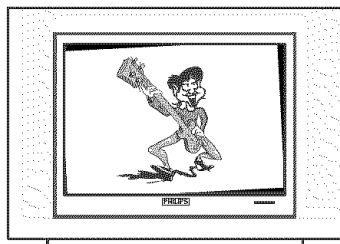
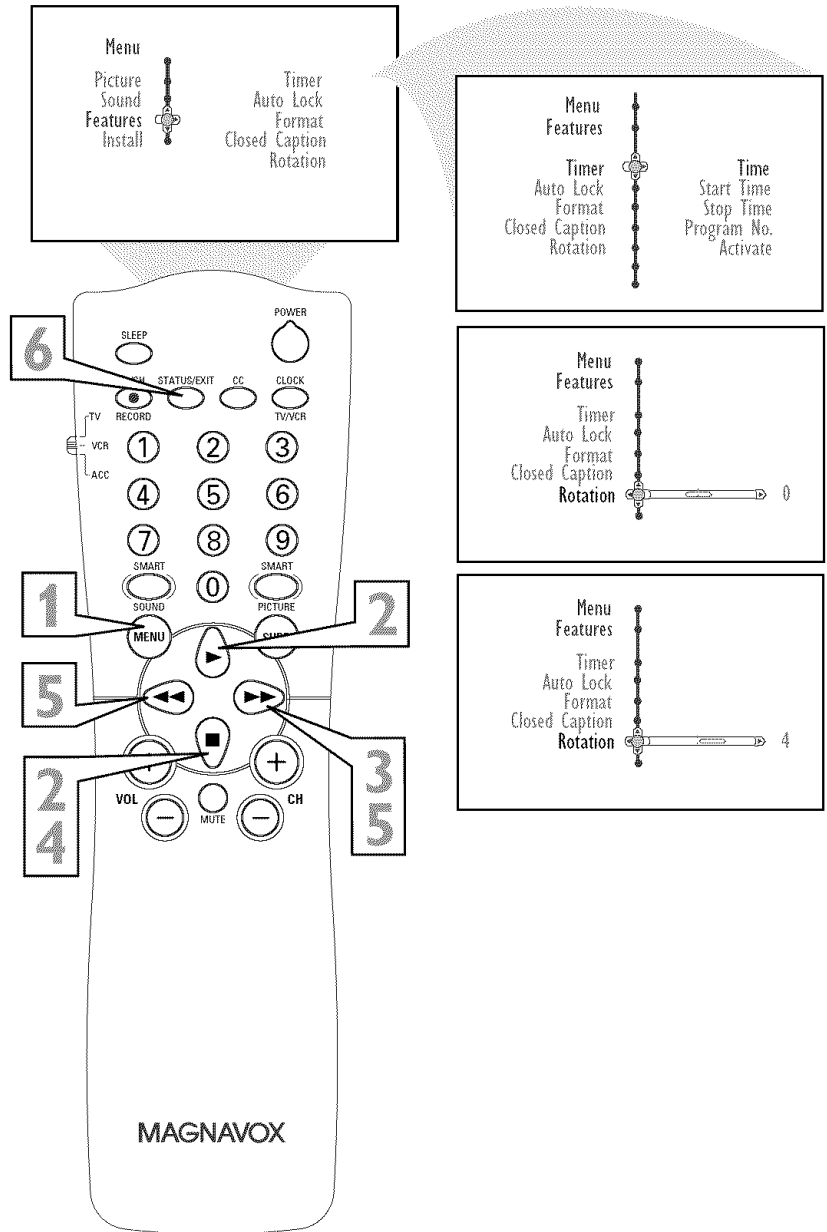
- OR
- CC Display On
- OR
- CC Display CC Mute

HOW TO USE THE ROTATION CONTROLS

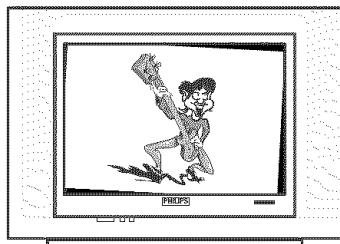


In rare cases the video supplied to the TV screen might show slightly tilted one way or another. The Tilt Adjust control will allow you to correct the problem by adjusting the screen in a clockwise or counterclockwise direction.

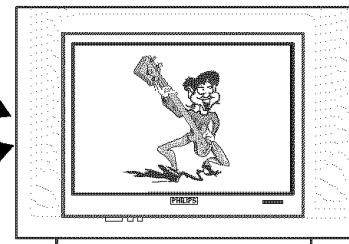
- 1** Press the **MENU/SELECT** button on the remote control to show the on-screen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** twice to highlight Features.
- 3** Press the **CURSOR RIGHT** and the menu will shift to the left.
- 4** Press the **CURSOR DOWN** repeatedly until the **ROTATION** control is highlighted.
- 5** Press the **CURSOR RIGHT** or **LEFT** to rotate the picture on the screen clockwise or counter clockwise. Please note that the amount of rotation will be very minimal.
- 6** Press the **STATUS/EXIT** button to remove the menu from the screen.



Picture tilted to the left



Picture tilted to the right



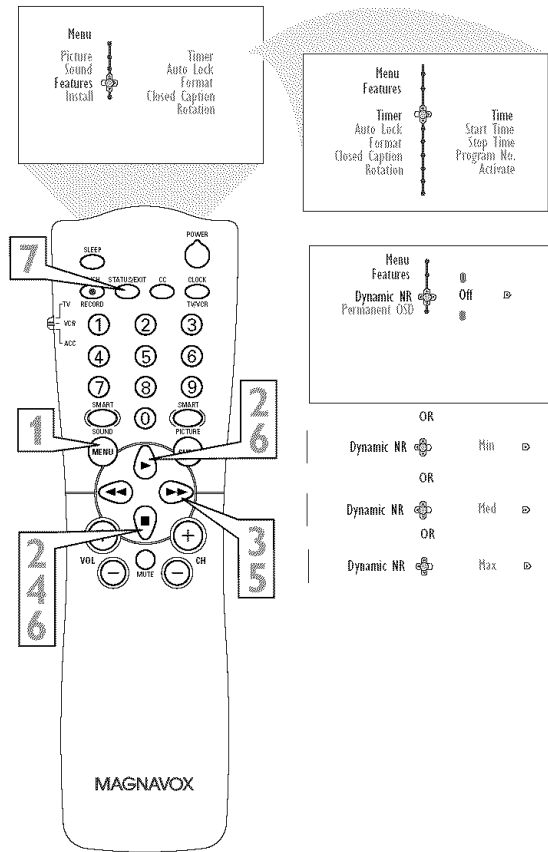
After adjustment



HOW TO USE THE DYNAMIC NR (NOISE REDUCTION) CONTROL

The Dynamic Noise Reduction feature can help eliminate slightly “speckled” pictures (an indication of signal noise in the picture).

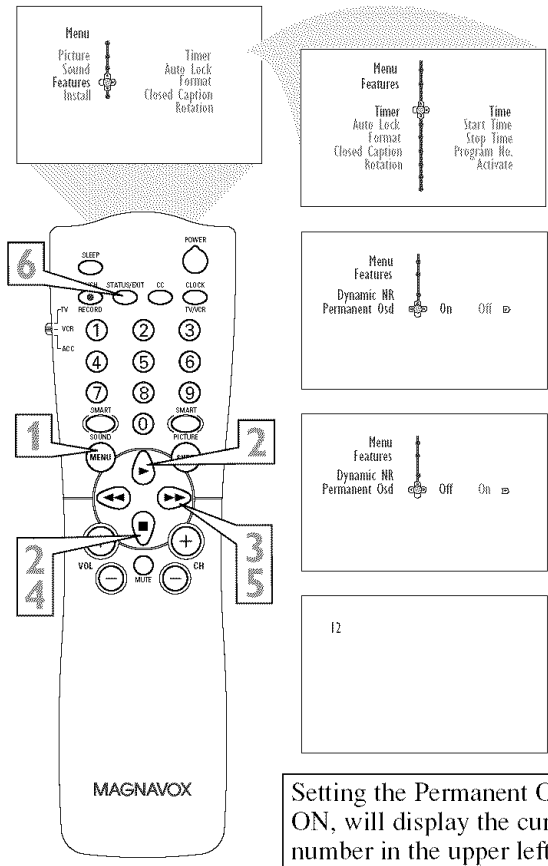
- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** twice to highlight Features.
- 3** Press the **CURSOR RIGHT** button to display the Features menu.
- 4** Press the **CURSOR DOWN** button repeatedly until the Dynamic NR control is highlighted.
- 5** Press the **CURSOR RIGHT** button to enter the Dynamic NR menu.
- 6** Press the **CURSOR UP** or **CURSOR DOWN** button repeatedly to select the desired Dynamic NR mode (Off, Min, Med, or Max).
- 7** Press the **STATUS/EXIT** button to remove the menu from the screen.



HOW TO USE THE PERMANENT OSD (ONSCREEN DISPLAY) CONTROL

The Permanent Osd control will store the TV's channel number in the upper left corner of the TV while the TV is on. Follow the steps to turn the feature On or Off.

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button repeatedly to highlight Features.
- 3** Press the **CURSOR RIGHT** button to display the Features menu.
- 4** Press the **CURSOR DOWN** button repeatedly until the Permanent Osd control is highlighted.
- 5** Press the **CURSOR RIGHT** button to enter the Permanent Osd menu and toggle the On or Off selection.
- 6** Press the **STATUS/EXIT** button to remove the menu from the screen.



Setting the Permanent OSD control to ON, will display the current channel number in the upper left of the screen.

HOW TO USE THE SMARTSURF CONTROLS



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

- 1** Press the CHANNEL (+) or (-) button (or the Number buttons) to select a channel to add to the SURF list.
- 2** Press the SURF button on the remote. The channel number will be displayed with the word ADD to the right.
- 3** Press the ►► button to ADD the channel to the Surf list. The display will change from ADD to DELETE.

Repeat steps 1 through 3 to add additional channels (up to eight) to the SURF list. As soon as a ninth channel is added, the first channel in the list will be removed.

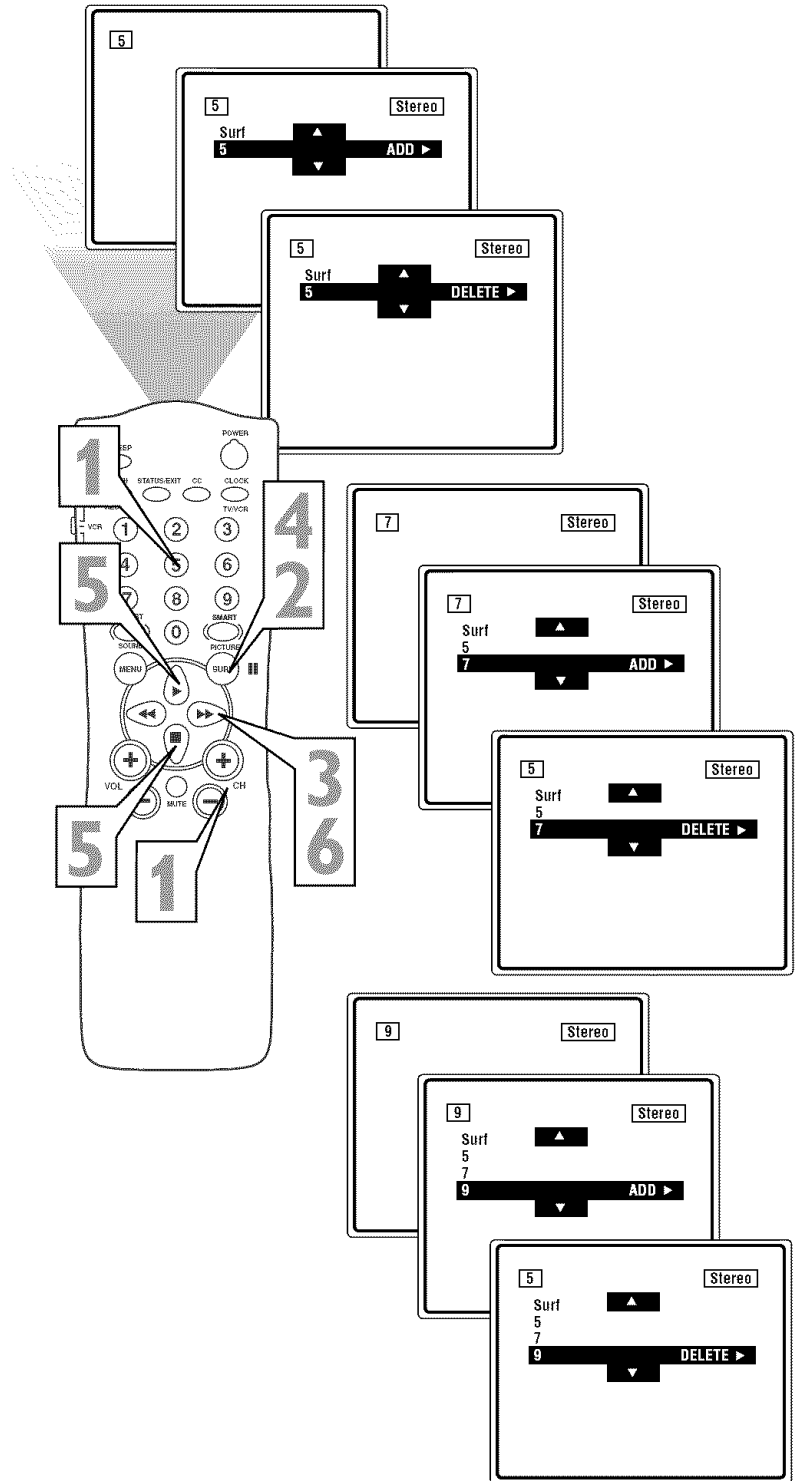
How to select Surf channels:

- 4** Press the SURF button on the remote control.
- 5** Press the ► or ◀ button to scroll the list of up to eight channels. As you scroll to a channel, the TV will tune to that channel.

To remove a channel from the SURF list:

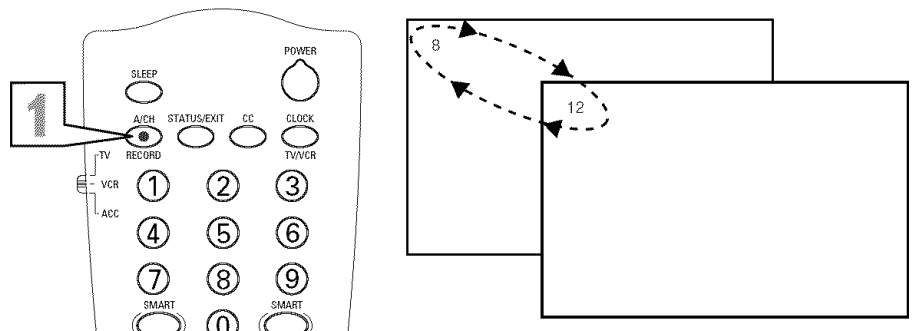
Follow steps 4 and 5 to select a channel in the Surf list.

- 6** While the Surf Channel List is still displayed on the screen, press the ►► button to DELETE the channel from the list. The display will change from DELETE to ADD.



ALTERNATE CHANNEL

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



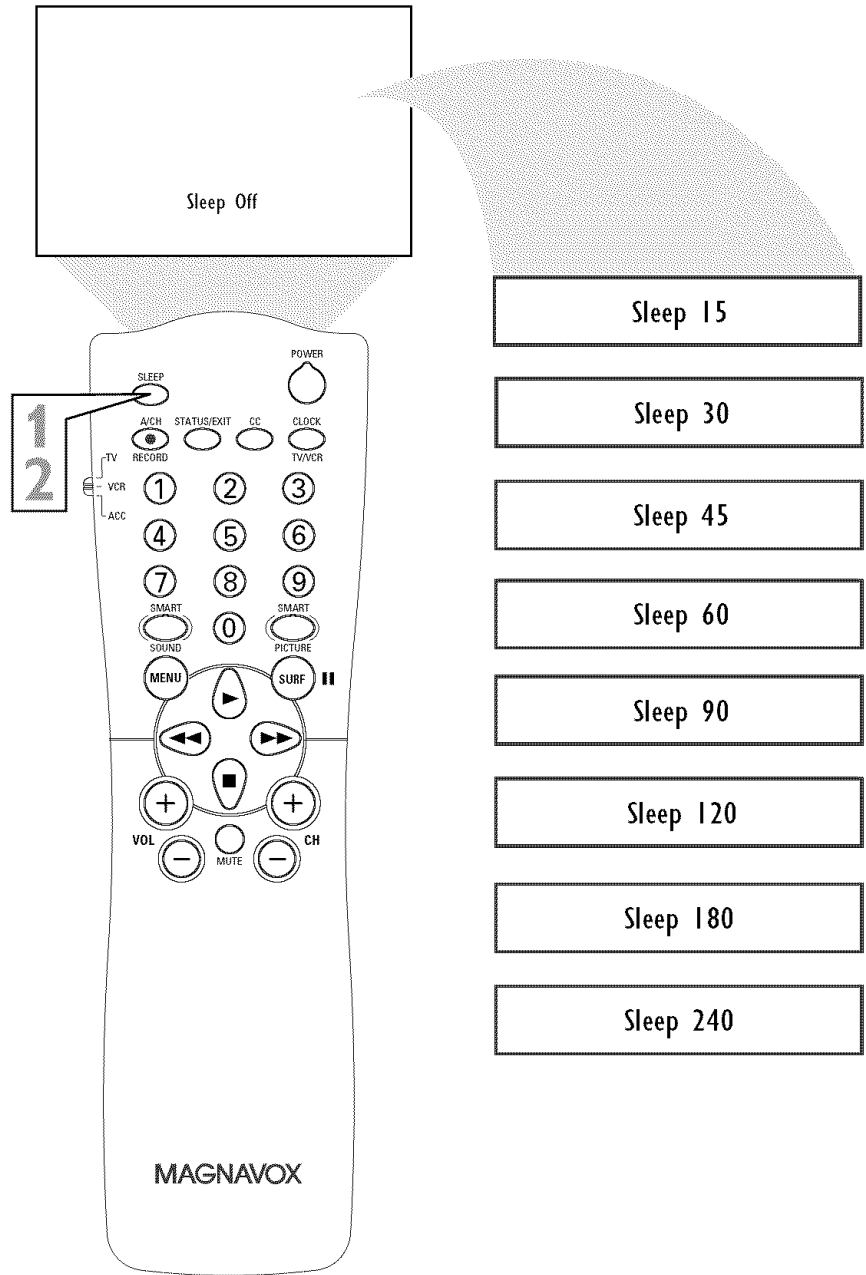


HOW TO USE THE SLEEPTIMER CONTROL

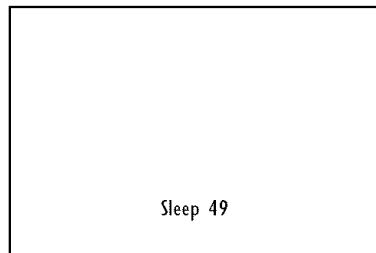
Have you ever fallen asleep in front of the TV, only to have it wake you up at two in the morning with a test pattern sound screeching in your ears? Well, your TV can enable you to avoid that discomfort by automatically turning itself off. With the Sleep Timer feature, you can set a timer to automatically switch the TV OFF after a period of time you choose (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes).

- 1** Press the **SLEEP** button on the remote control. The SLEEP timer onscreen display will appear in the upper part of the screen.
- 2** 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.

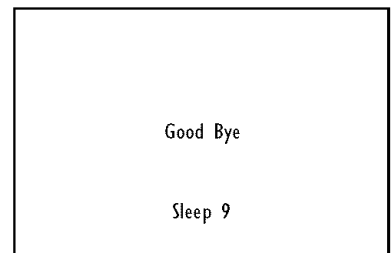
An onscreen countdown will appear during the last minute before the TV shuts itself off.



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



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



HELPFUL HINT

To see how many minutes remain before the TV shuts itself off, press the STATUS/EXIT button. A Sleep Timer setting can be cancelled by pressing any button during the last minute of the operation.

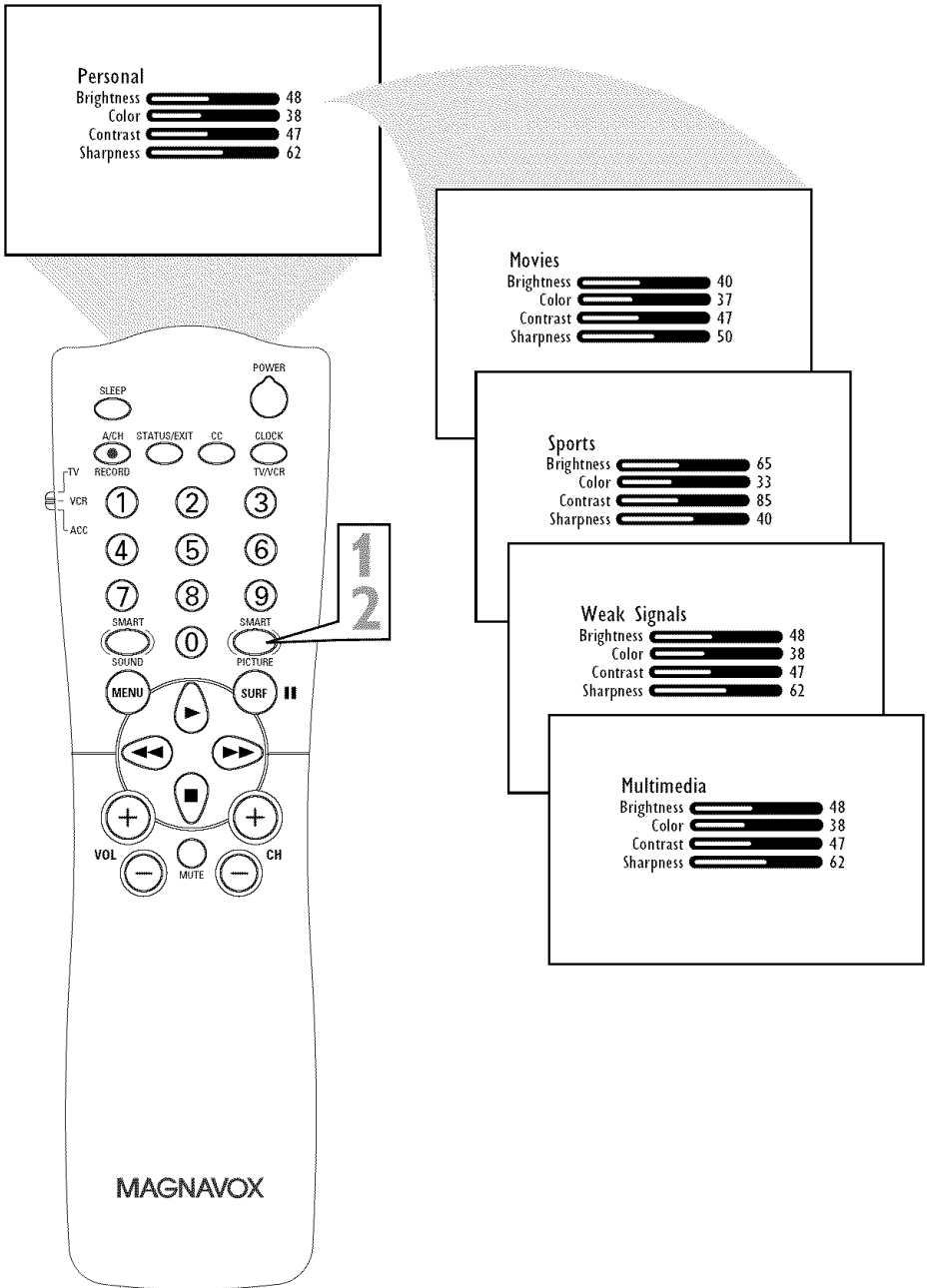
HOW TO USE THE SMARTPICTURE™ CONTROL



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. SmartPicture™ 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 Multimedia SmartPicture™ controls have been preset at the factory to automatically adjust the TV's brightness, color, picture, sharpness, tint, and color temperature levels. The Personal SmartPicture™ settings are the ones that you made through the PICTURE options within the onscreen menu

- 1 Press the SMART PICTURE button** on the remote control. The current SmartPicture™ setting will appear in the middle of the screen.
- 2 Press the SMART PICTURE button repeatedly** to select either Personal, Movies, Sports, Weak Signal, or Multimedia picture settings.

NOTE: The PERSONAL setting and the PICTURE options within the onscreen menu are the same. This is the only option in SmartPicture™ 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.



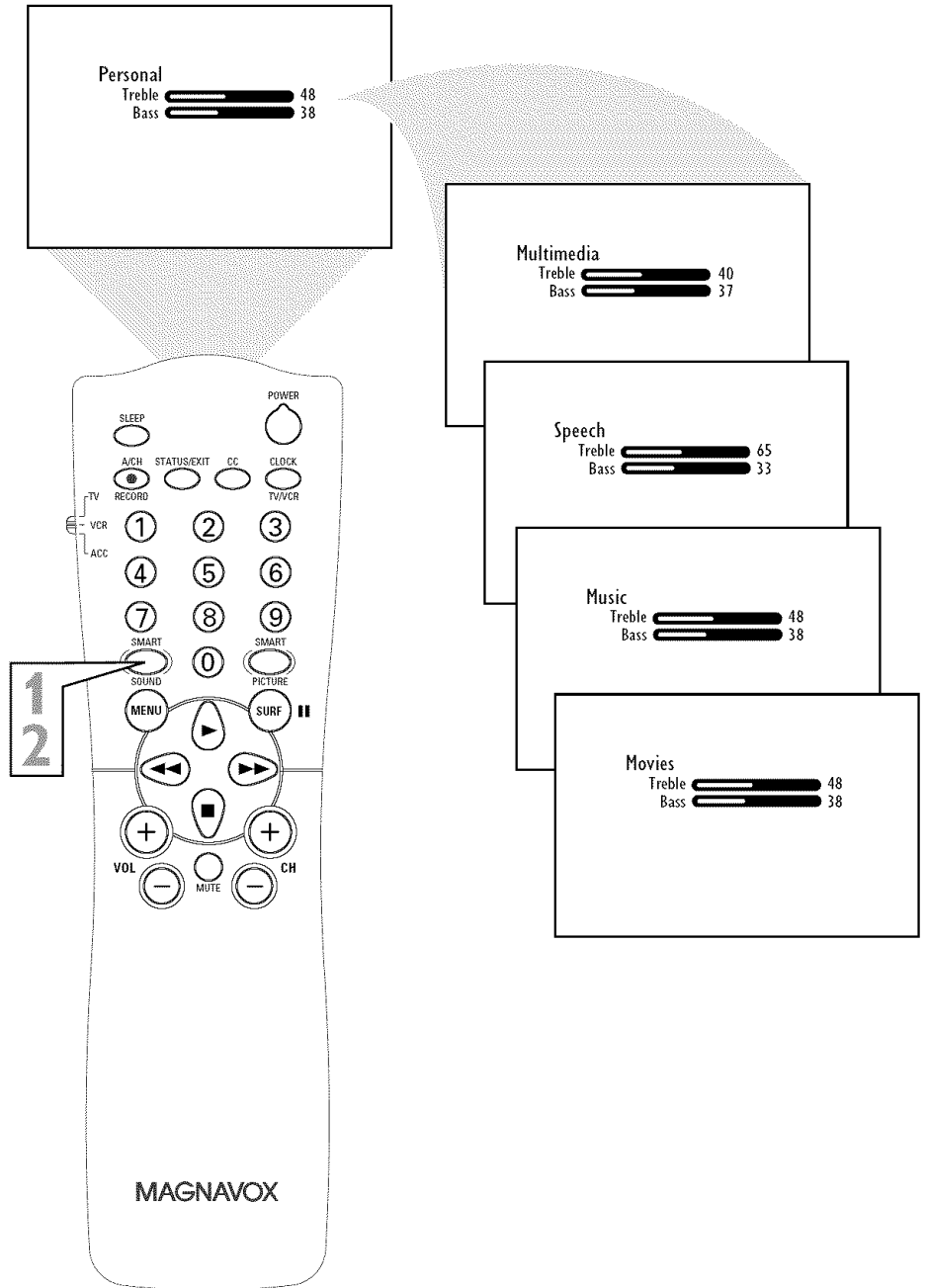


HOW TO USE THE SMARTSOUND™ CONTROL

SmartSound™ allows you to select from four factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The four factory-set controls (Multimedia, Speech, Music, and Movies) enable you to tailor the TV sound so as to enhance the particular program you are watching. You can change the Personal setting to your preference. Follow these steps to select any of the options.

- 1 Press the SMART SOUND button** on the remote control. The current SmartSound™ setting will appear in the middle of the screen.
- 2 Press the SMART SOUND button repeatedly** to toggle among the settings: Personal, Multimedia, Speech, Music, or Movies.

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



HELPFUL HINT

AutoSound™ works only with the programs coming through the ANTENNA/CABLE (ANT) input on the rear of the TV (RF audio). It will not control the sound levels for the external connections.



MODE SELECTION

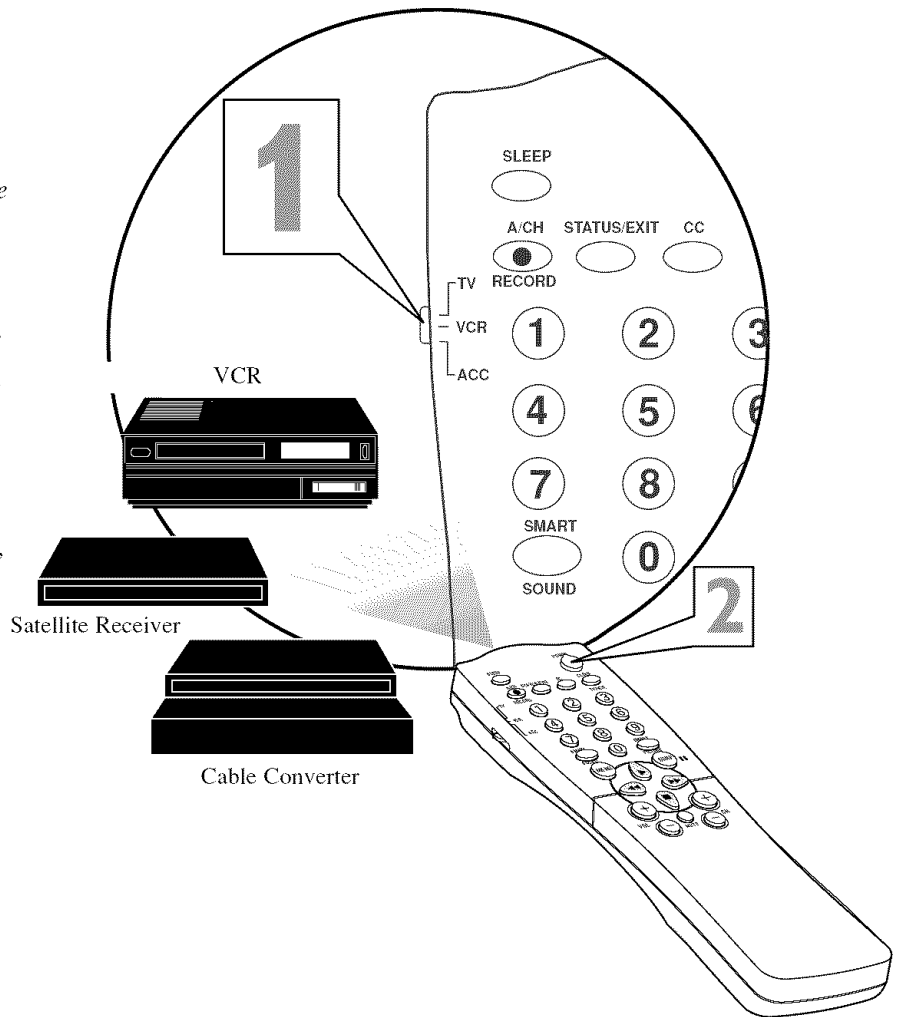
Your remote control can work your TV and some VCRs, Cable Boxes, Satellite Systems, DBS, DVD Players, etc. However, an easy one-time step may be necessary before the remote will work your other equipment.

Try this initial check to see if you need to go to the following section.

- 1** Place the TV/VCR/ACC Mode Switch in the proper position (VCR or ACC for other devices) for the device you want to control.
- 2** Point the remote control at the device and press the POWER button.
- 3** Does the remote turn the device ON?
 If **YES**, stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.
 If **NO**, continue...

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

Find your three-digit code on pages 33-34.



HELPFUL HINT

It is recommended that you use Philips brand external accessory devices with your Philips television to insure proper remote control functions. If you are using Philips brand accessory devices, your remote control should be ready to use with these devices.



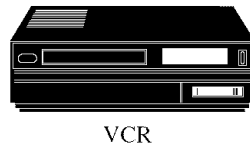
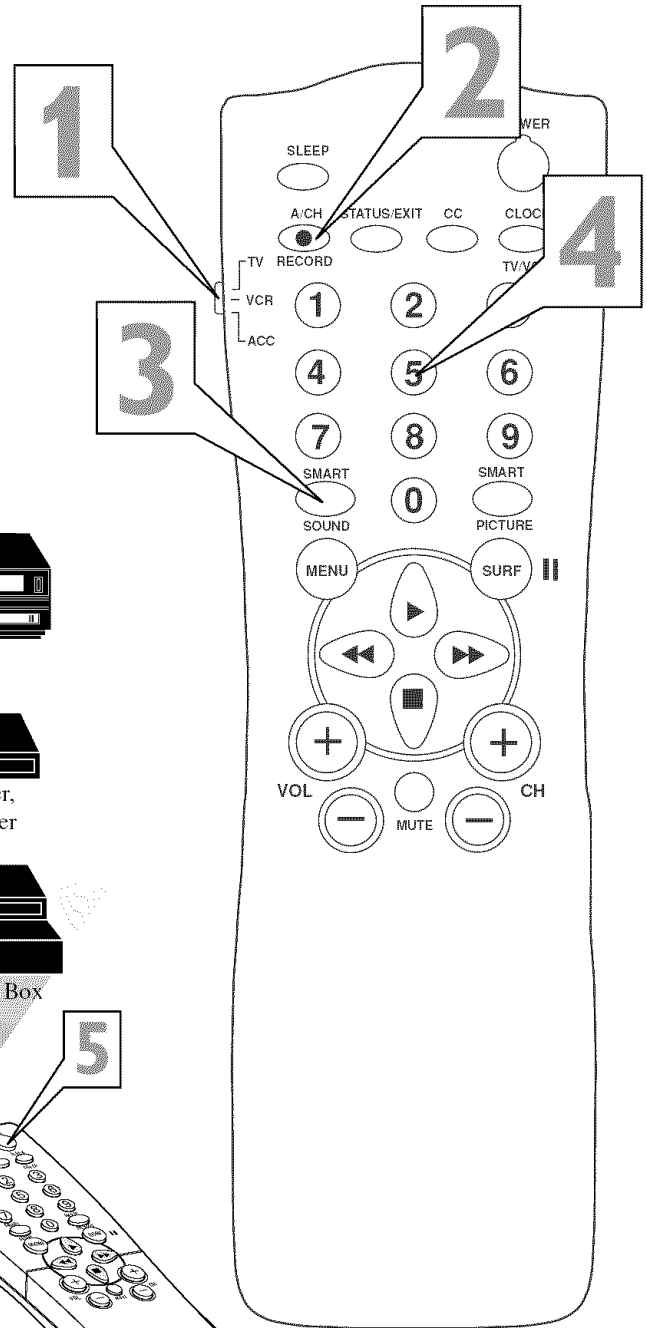
SETTING THE REMOTE CONTROL TO OPERATE ACCESSORY DEVICES

CODE ENTRY METHOD

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

Please read through steps 1-5 before beginning.

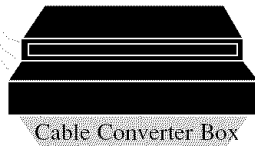
- 1** Place the TV/VCR/ACC Mode Switch in the proper position for the device you want to control.
- 2** Press the A/CH • RECORD button on the remote control and release.
- 3** Press the SMART SOUND button on the remote within 30 seconds, then release.
- 4** Press the Number buttons to enter the **THREE-DIGIT CODE** for your desired device. The remote is now ready to operate the device.
- 5** Point the remote at the device. Press the POWER button on the remote to turn the unit ON.



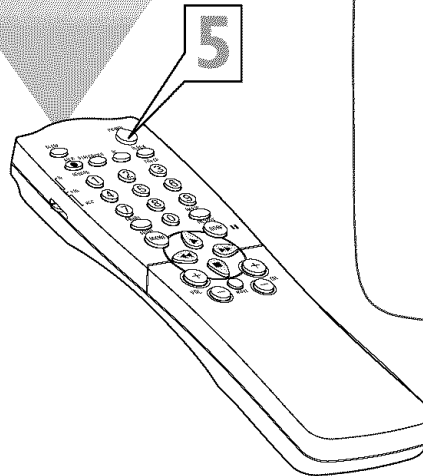
VCR



Satellite Receiver,
DBS, DVD Player



Cable Converter Box



HELPFUL HINT

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

If the remote does not operate your device after a second try, see if there is another three-digit code (pages 33-34) for your device. Repeat the steps using the new number.

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

NOTE: The remote is for use with external accessory devices only and not for use with other brands of TVs.



SEARCH METHOD

Your TV remote can be set to work various external devices such as VCRs, Cable Boxes, Satellite Receivers, DBS, DVD Players, etc., by using the search method of remote control programming.

If the Code Entry method shown on the previous page did not set your remote to work your external device, then follow the easy steps listed below.

Please read steps 1-4 before beginning.

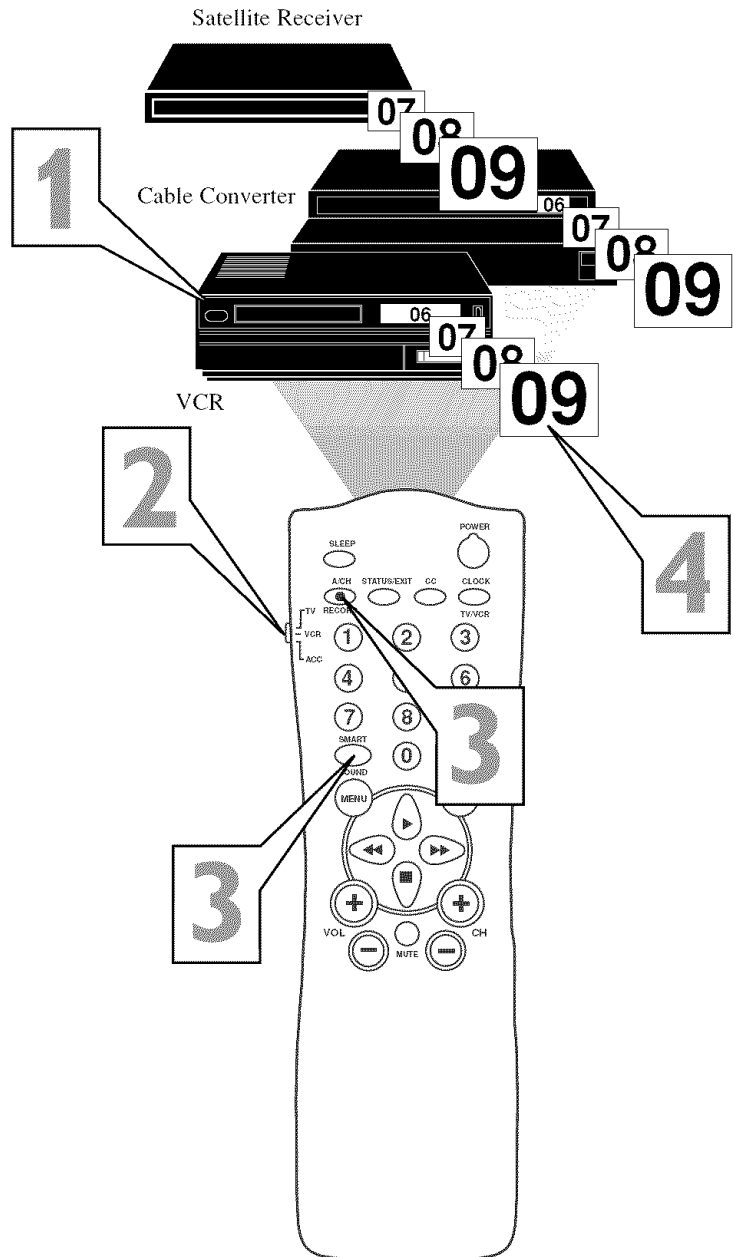
- 1** Press the **POWER** button on the accessory device to turn it ON.
- 2** Place the **TV/VCR/ACC Mode Switch** in the proper position for the device you want to operate.
- 3** Press and hold the **A/CH • RECORD** and **SMART SOUND** buttons simultaneously.
- 4** The device will begin to change channels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

HELPFUL HINT

This method can take up to two minutes to perform.

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

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



NOTE: The remote is for use with external accessory devices only and not for use with other brands of TVs.



REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES

<u>VCR</u>	<u>CODE NO.</u>
Admiral	.048
Advantz	.358
Adventure	.000
Aiko	.278
Aiwa	.000, 037, 307, 348, 352
Akai	.041, 049, 053, 061, 106, 315
Alba	.352
American High	.035
Amstrad	.325, 332
Asha	.240
Audiovox	.037
Baird	.107
Beaumarck	.240
Bell & Howell	.104
Blaupunkt	.003, 006, 154
Brandt	.187, 320, 321
Broksonic	.121, 184, 211, 295, 361
Bush	.352
CCE	.072, 278
Calix	.037
Canon	.035
Capehart	.020
Carver	.081, 146
Citizen	.037, 278
Colt	.072
Combitach	.352
Craig	.037, 047, 072, 240, 271
Curtis Mathes	.035, 041, 060
Cybermax	.051, 240
Daewoo	.020, 045, 276
Daytron	.020
Denon	.042
Dynatech	.000
Electroponic	.037
Emerex	.032
Emerson	.000, 002, 036, 037, 043, 061 .068, 088, 121, 164, 208, 209, .211, 212, 278, 295, 361, 479
Ferguson	.107, 320, 321
Fisher	.047, 054, 066, 104
Fuji	.033, 035
Funai	.000
GE	.035, 060, 065, 202
Garrard	.000
Go Video	.232, 279, 432
Gold Star	.037, 038
Gradiente	.000, 406
Grundig	.003, 007, 195, 347
HI-Q	.047
Harley Davidson	.000
Harman/Kardon	.038, 075
Harwood	.068, 072
Headquarter	.046
Hinari	.004, 352
Hitachi	.000, 004, 041, 042, .065, 105, 168, 235
Ingersol	.004
JVC	.008, 041, 067, 208, 384, 486
Jensen	.041
KEC	.037, 278
KLH	.072
Kenwood	.038, 041, 067, 384
Kodak	.035, 037
LXI	.037
Lloyd's	.000, 206

<u>VCR</u>	<u>CODE NO.</u>
Loewe	.004
Logik	.004, 072
MEI	.035
MGA	.043, 061
MGN Technology	.240
MTC	.000, 240
Magnavox	.000, 035, 081, 146, 181
Marta	.037
Matsui	.004, 348, 352
Matsushita	.035, 162, 454
Memorex	.000, 035, 037, 039, 046, .047, 048, 104, 240, 266, 307
Metz	.003, 347
Minolta	.042, 105
Mitsubishi	.043, 061, 067, 075, 173, 443
Motorola	.035, 048
Multitech	.000, 072
NAD	.058
NEC	.036, 040, 041, 067, 104
Nikko	.037
Nikon	.034, 253
Noblex	.240
Nordmende	.297, 320, 321
Okano	.346
Olympus	.035, 226
Optimus	.037, 048, 058, 104, .162, 432, 454
Optonica	.062
Orion	.004, 295, 348, 352, 479
Panasonic	.035, 077, 162, 225, .226, 378, 454
Penney	.035, 037, 038, 040, .042, 065, 105
Pentax	.042, 065, 105
Philco	.035
Philips	.035, 062, 081, 110, 403
Pilot	.037
Pioneer	.058, 067
Portland	.020
Profax	.322
Profitronic	.240
Protec	.072
Pulsar	.039, 051
Quarter	.046
Quartz	.046
Quasar	.035, 077, 162, 454
RCA	.042, 060, 065, 077, .105, 106, 149, 202
Radio Shack	.000, 037
Radix	.037
Randex	.037
Realistic	.000, 035, 037, 045, 047 .048, 062, 066, 104
Ricoh	.034, 253
Runco	.039
SEG	.322
SEI	.004
STS	.042
Saba	.297, 320, 321
Saisho	.004
Salora	.075
Samsung	.045, 051, 053, 240
Sanky	.039, 048
Sansui	.000, 041, 067, 271
Sanyo	.046, 047, 104, 240, 268

<u>VCR</u>	<u>CODE NO.</u>
Saville	.352
Scott	.043, 045, 121, 164, 211, 212
Sears	.000, 035, 037, 042, 046, .047, 054, 066, 104, 105
Sharp	.046, 062
Shintom	.072
Shogun	.051, 240
Shoral	.004
Siemens	.003
Singer	.072
Sinudyne	.004
Sony	.000, 011, 022, 032, 033, .034, 035, 253, 275
Sunkel	.348
Sunpak	.253
Sylvania	.000, 035, 043, 081, 103, 110
Symphonic	.000
TMK	.036, 208, 240
Tansal	.322
Tatung	.041
Teac	.000, 041
Technics	.035, 162
Teknika	.000, 035, 037
Telefunken	.187, 320, 321
Thomas	.000
Thomson	.320
Toshiba	.043, 045, 066, 212, 366
Totevision	.037, 240
Towada	.322
Unitech	.240
Universum	.325
Victor	.045
Victor Research	.038, 040
Video Concepts	.040, 045, 061
Videosonic	.240
Wards	.000, 035, 042, 047, 048, 060, 062, .072, 081, 149, 161, 212, 240
XR-1000	.000, 035, 072
Yamaha	.038
Zenith	.000, 033, 034, 039

CABLE

CONVERTER

CODE NO.

ABC	.001, 003, 007, 008, .011, 013, 014, 017
Aliegio	.153
Andover	.544
Antronix	.022
Archer	.022, 153
Balcor	.056
British Telecom	.105
Cable Star	.056
Cabletenna	.022
Cabletime	.161, 271, 377, 448
Cableview	.022
Century	.153
Citizen	.153
Clyde	.086
Colour Voice	.025, 031
Comtec	.274
Comtronics	.040
Contec	.019
Cryptovision	.600
Deceat	.423
Eastern	.002, 274

REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES



CABLE CONVERTER	CODE NO.
Everquest	.015, 040
Filmnet	.443
Focus	.400
France Telecom	.451
GC Electronics	.056
GEC	.086
Ganard	.153
Gemini	.015, 070, 242
General Instrument	.011, 276, 476
Gold Star	.040
Grundig	.529
Hamlin	.009, 020, 034, 259
Hitachi	.011
Hytex	.007
Jasco	.153
Jerrold	.003, 011, 012, 014, .015, 024, 276, 476
M.N.E. T.	.443
MNet	.443
Macon	.033
Magnavox	.027, 032, 334
Memorex	.000
Movie Time	.063
NSC	.063, 070
Oak	.007, 019
Optimus	.021
Panasonic	.000, 021, 107
Paragon	.000
Philips 025, 027, 031, 153, 242, 290, 334	
Pioneer	.533, 753
Popular Mechanics	.400
Pulsar	.000
RCA	.021
Radio Shack	.015
Recoton	.400
Regal	.020, 259
Regency	.002
Rembrandt	.011, 070
Runco	.000
SL Marx	.040
Salora	.382
Samsung	.040
Satbox	.375
Scientific Atlanta	.008, 017, 477
Signal	.015, 040
Signature	.011
Sprucer	.021
Star Sight	.542
Starcom	.003, 015
Stargate	.015, 040
Starquest	.015
Sylvania	.001
TV85	.063
Tandy	.258
Tele+1	.443
Teleservice	.281
Televue	.040
Texscan	.001
Timeless	.274
Tocom	.012, 013, 059
Toshiba	.000
Tudl	.286
Tusa	.015
Unike	.022, 153

CABLE CONVERTER	CODE NO.
United Artists	.007
United Cable	.003
Universal	.022, 056, 153, 191
Videoway	.250
Viewstar	.027, 063, 258
Visi Cable+	.461
Westminster	.105
Wolsey Gaine	.544
Zenith	.000, 054, 525
Zentek	.400

DBS	CODE NO.
Alpha Star	.772
Echostar	.775
HTS	.775
Hitachi	.819
Hughes Network System	.749
Jerrold	.627
Magnavox	.722, 724
Memorex	.724
Panasonic	.701
Philips	.722, 724
Primestar	.627
RCA	.566
Sony	.639
Toshiba	.790
Uniden	.724

SATELLITE	CODE NO.
AST	.351
Akai	.515
Alba	.352, 515, 613
Aldea	.288
Amstrad	.080, 252, 345, 461, 509, 689
Ankaro	.220, 288, 369
Anitron	.183
Armstrong	.243
Astra	.108
Avalon	.396
Axis	.369
BT	.515, 668
Beko	.189
Best	.369
Boca	.243, 513
Bush	.067
Cambridge	.344, 515
Channel Master	.362
CommLink	.288
Connexions	.396
Conrad	.607
Crown	.243
DDC	.362
DNT	.396
Echostar	.396
Ferguson	.067, 183, 189, 336
Fidelity	.252
Finiux	.108, 397
Fuba	.369, 396
G-Bat	.183
Galaxis	.286
Gooding	.571
Grundig	.173, 189, 571, 750
Hinari	.183
Hirschmann	.397, 573
Houston	.668

SATELLITE	CODE NO.
Huth	.220, 243, 268
ITT	.108
Intervision	.592
JVC	.515, 571
Kathrein	.092, 504, 622, 658
La Sat	.513, 607
Lennox	.592
Lupus	.369
Luxor	.108, 573
Manhattan	.592
Maspro	.092, 336, 750
Matsui	.571
Mediamarket	.248
Minerva	.571
Mintec	.576
Morgan's	.243, 513
Newhaus	.220
Nikko	.360, 713
Nokia	.108, 397, 573
Nordmende	.362
Orbitech	.501
Pace	.067, 183, 336, 455, 791
Paliadium	.571
Palsat	.501
Philips	.200, 292, 571, 750
Phonotrend	.288, 592
Plasmatic	.442
Proset	.288
Quadral	.362, 628
RFT	.220, 288
Radix	.396
SAT	.351, 461
SEG	.369
Saba	.336
Salora	.108
Satec	.183
Schwaiger	.183, 504
Seemann	.396, 578, 626
Skymaster	.288, 626
Sony	.704
Star Trak	.421
Strong	.421
Sunstar	.513
Tantec	.336
Techni Sat	.262, 501
Teleka	.243, 613
Tonna	.668
Triad	.351
Universum	.571
Vtech	.351
Wisi	.351, 396

DVD	CODE NO.
Kenwood	.534
Mitsubishi	.521
Panasonic	.490
Philips	.539
Pioneer	.550
RCA	.522
Sony	.552
Toshiba	.503



REMOTE CONTROL VCR RELATED BUTTONS

When using the TV remote with a VCR, first make certain it is set to control your VCR.

- 1** Set the TV/VCR/ACC mode switch to VCR on the remote.
- 2** Point the top of the remote toward the front of the VCR (remote sensor window) when pressing the buttons.

A/CH • RECORD BUTTON

Press and hold to begin a VCR recording.

TV/VCR/ACC SWITCH

Set to VCR to send commands to the VCR.

PLAY BUTTON ▶

Press to play a videotape.

REWIND BUTTON ◀◀

Press to rewind tapes. For some VCRs, you may have to stop the tape first. During playback, hold down the button to view the picture moving rapidly in reverse.

STOP BUTTON ■

Press to stop a tape.

POWER BUTTON

Press to turn the VCR ON and OFF.

CLOCK • TV/VCR BUTTON

Press to choose VCR or TV position at the VCR. In VCR position, you can view tapes. Use TV position to view one program while recording another.

In TV position, the TV/VCR/CLOCK button may access the TV's Clock menu.

NUMBER BUTTONS

Press to select channels at the VCR.

SURE/II (PAUSE) BUTTON

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

FAST FORWARD BUTTON ▶▶

Press to rapidly advance the tape. For some VCRs you may need to stop the tape first. During playback, press and hold the button to view the picture moving forward rapidly.

CHANNEL +/- BUTTONS

Press to scan up or down through the VCR channels.

HELPFUL HINTS

The VCR buttons on the remote will not operate your VCR if those features are not on your original VCR remote control.

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



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 75Ω 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 (FRONT, AV1, AV2, Current Channel, etc.).

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- If you're attempting to hook up auxiliary equipment, check the audio jack connections located on the front of the TV.

Remote Does Not Work

- Check the batteries. If necessary, replace them with AA Heavy Duty (Zinc Chloride) or Alkaline batteries.

Remote Does Not Work Continued

- 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.

TV Displays white lines in letterbox when viewing a DVD disc

- Some DVD Discs are encoded with as much as 30% more video information to give the best possible picture quality. With the DVD Player in the 16:9 picture format, the playback of this type of disc with extra video information, can produce a number of small white lines in the upper portion of the black letterbox area. With some of these discs, this situation is unavoidable and it does not require a service call.



WARNING Concerning Stationary Images on the TV Screen:

Do not leave stationary or letterbox images on screen for extended periods of time. This can cause uneven picture-tube aging.

Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Be careful not to leave nonmoving images on screen for extended periods of time, or to display the same images on screen too frequently, because subtle ghost images can be left on the picture tubes. Sources of stationary images may be DVD disks, laser disks, video games, CD-i disks, videotapes, digital television boxes, broadcast channels, cable channels, satellite channels, and others. **Here are some examples of stationary images (this is not an all-inclusive list; you may encounter others in your viewing):**

- **DVD menus**—listings of DVD disk content
- **Letterbox black bars**—shown at the top and bottom of the TV screen when a wide screen (16:9) movie is viewed on a TV with standard (4:3) aspect ratio.
- **Video-game images and scoreboards**
- **Television station logos**—present a problem if they are bright and stationary; moving or low-contrast graphics are less likely to cause uneven aging of the picture tube
- **Stock-market tickers**—presented at the bottom of the TV screen
- **Shopping channel logos and pricing displays**—bright and shown constantly or repeatedly in the same location on the TV screen.

Placement of the TV

- To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot; for example, in direct sunlight or near a heating appliance.
- Be sure to allow a free flow of air to and from the perforated back cover of the set.

Cleaning

- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- Regularly dust the TV with a dry, nonscratching duster to keep the TV clean.
- When cleaning the TV, take care not to scratch or damage the screen surface. Avoid wearing jewelry or using anything abrasive. Do not use household cleaners. 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 and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the back cover of the set.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent mar-
ring of the cabinet finish.



Audio/Video Inputs • These connectors (phono type plug) receive audio and video signals from VCRs or other devices.

Auto Program • The procedure of adding or deleting channel numbers into the Television's memory. The Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

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

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

Menu • An on-screen listing of feature controls that are available for adjustment.

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

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

Status/Exit • Allows the user to quickly confirm the current channel number. Status can also be used to clear the Television of on-screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

Surf • Scanning specific channels in a limited channel list.

Tuner Mode • Designed for first time set up and use where the TV is set for antenna or cable TV signal connections.

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



INDEX

Alternate Channel Control	25	Registration of TV Information	2
Audio Out Control	10	Remote Control Use with Accessory Devices	
AutoChron™ Controls	12	Code-Entry Method of Identification	31
AutoLock™ Controls		Mode Selection	30
Access Code	14	search Method	32
AutoLock™ Review Screen	20	Direct-Entry Code List	33-34
Blocking Programs based on Movie Ratings	17	VCR Specific Buttons	35
Blocking Programs based on TV Ratings	18	Rotation Control	23
Locking Channels	15	Safety Information	3
Clearing All Locked Channels	16	SAP (Secondary Audio Programs) Control	10
Understanding the AutoLock™ Features	13	Sharpness Control	9
Auto program Controls	6	Sleep Timer Control	26
AVL (Automatic Volume Leveler) Control	10	SmartPicture™ Control	27
Balance Control	10	SmartSound™ Control	28
Bass Control	10	SmartSurf™ Controls	25
Brightness Control	9	Stereo/Mono Control	10
Care and Cleaning Information	37	Timer Controls	
Channel Edit Controls	6	Activate Control	11
Closed Captioning	22	Clock, Time Control	11
Color Control	9	Display Control	11
Color Temperature (Color Temp) Control	9	Program No. Control	11
Dynamic Bass	10	Start Time Control	11
Dyn(amic) Contrast Control	9	Stop Time Control	11
Dynamic NR (Noise Reduction)	24	Tint Control	9
Feature Highlights	4	Treble Control	10
Format Controls	21	Troubleshooting	36
Glossary	38	Tuner Mode Controls	5
Incr(editable) Surround Control	10	TV Speaker Control	10
Index	39	Warranty (Limited)	40
Language Control	5	Format Controls	21
Name Control	7-8		
Permanent OSD	24		
Picture Control	9		



Lined writing area consisting of multiple horizontal lines for notes.

MAGNAVOX LIMITED WARRANTY

Ninety (90) Days Labor & One (1) Year Parts & One (1) Year Display

MAGNAVOX warrants this product against defect in material or workmanship, subject to any conditions set forth as follows:

PROOF OF PURCHASE:

You must have proof of the date of purchase to receive warranted repair on the product. A sales receipt or other document showing the product and the date that you purchased the product as well as the authorized retailer included, is considered such proof.

COVERAGE:

(If this product is determined to be defective)

LABOR: For a period of ninety (90) days from the date of purchase, Magnavox will repair or replace the product, at its option, at no charge, or pay the labor charges to any Magnavox authorized service center. After the period of ninety (90) days, Magnavox will no longer be responsible for charges incurred.

PARTS: For a period of one (1) year, Magnavox will supply, at no charge, new or rebuilt replacement parts in exchange for defective parts. Magnavox authorized service centers will provide removal and installation of the parts under the specified labor warranty.

DISPLAY: For a period of one (1) year from the date of purchase, Magnavox will supply, at no charge, a new or rebuilt active display device in exchange for the defective display. Magnavox authorized service centers will provide removal and installation of the parts under the specified labor warranty. (PTV screens carry a thirty (30) day replacement warranty.)

EXCLUDED FROM WARRANTY COVERAGE

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 improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Magnavox.
- 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.
- Damage occurring to product during shipping when improperly packaged or cost of associated packaging.
- Product lost in shipment and no signature verification of receipt can be provided.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Products sold AS IS or RENEWED.

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

Contact Magnavox Customer Care Center at:
1-800-705-2000

TO OBTAIN WARRANTY SERVICE IN CANADA...

1-800-661-6162 (French Speaking)
1-800-705-2000 (English or Spanish Speaking)

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER. MAGNAVOX SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract agreement with the MAGNAVOX partnership within ninety (90) days of the date of sale, the limitation on how long an implied warranty lasts does not apply.

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

Magnavox, P.O. Box 671539, Marietta, GA. 30006-0026

(Warranty: 4835 710 28125)