20MT1336

STOP!

Thank you for choosing Magnavox.

Need help fast?

*Read your Quick Use Guide and/or
Owner's Manual 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.usasupport.magnavox.com
or call
1-800-705-2000
while with your product
(and Model / Serial number)**

Model No   : _____

Serial No   : _____

CONTENTS

FEATURES

SmartLock lets you block channels or programs that are not suitable for children or with restricted TV ratings (Pg. 17).

Smart Picture lets you select from five pre-set picture settings; Personal, Movies, Sports, Multimedia or Weak signals with the push of one button (Pg. 14).

Smart Sound lets you level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes. (Pg. 15).

Channel Edit lets you add or skip channels from the list stored in the TV 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 (Pg. 13).

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as onscreen text. (Pg. 24).

Sleeptimer allows the viewer to set a timer to automatically turn the TV off after a period of time (Page. 24).

As an Energy Star® Partner, Magnavox has determined this product meets the Energy Star® guidelines for energy efficiency Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.

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

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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 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.
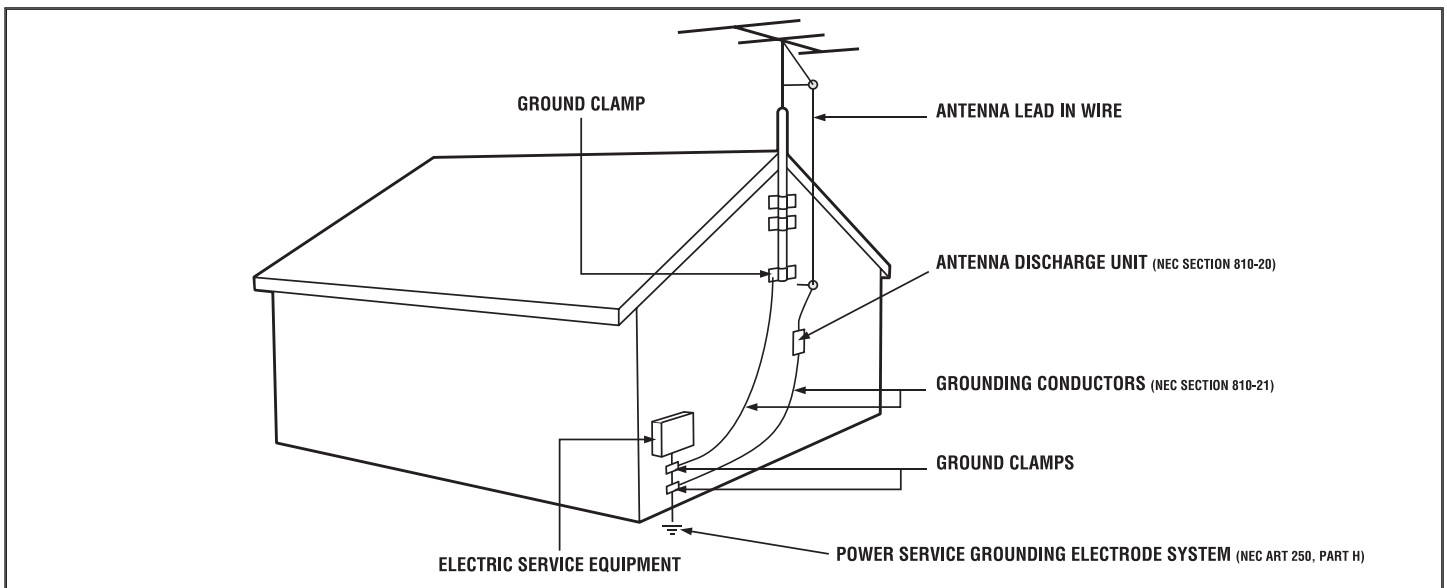

IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this TV 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 TV When a cart is used, use caution when moving the cart/TV combination to avoid injury from tip-over.
13. Unplug this TV during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the TV 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 TV 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 TV 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 TV; or
    C. The TV has been exposed to rain; or
    D. The TV does not appear to operate normally or exhibits a marked change in performance; or
    E. The TV 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 Mountin**g - The TV 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.

GROUND CLAMP

ANTENNA LEAD IN WIRE

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUND CLAMPS

ELECTRIC SERVICE EQUIPMENT

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

BASIC ANTENNA CONNECTION

A combination antenna receives normal broadcast channels (VHF-2-13 and UHF-14-69). Your connection is easy since there is only one 75 ohm antenna plug on the back of your TV - and that's where the antenna goes.
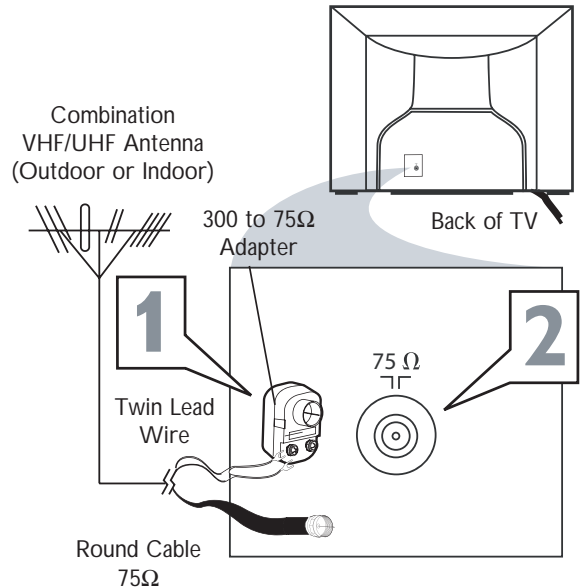
1 **If your antenna has a round cable** (75Ω) on the end, then you are ready to connect it to the TV. Continue with step 2.

  If your antenna has flat twin lead wire (300Ω), you first need to switch the antenna wires to the screws on a 300 to 75 adapter (not supplied with TV).   Ω

If you have a Cable Converter Box : Connect the Cable TV signal to the Cable Signal IN(put) plug on the Converter.

2 Push the round end of the adapter or antenna cable onto the 75 jack on the rear of the TV. If the round end of the antenna cable is threaded, screw it down tight.
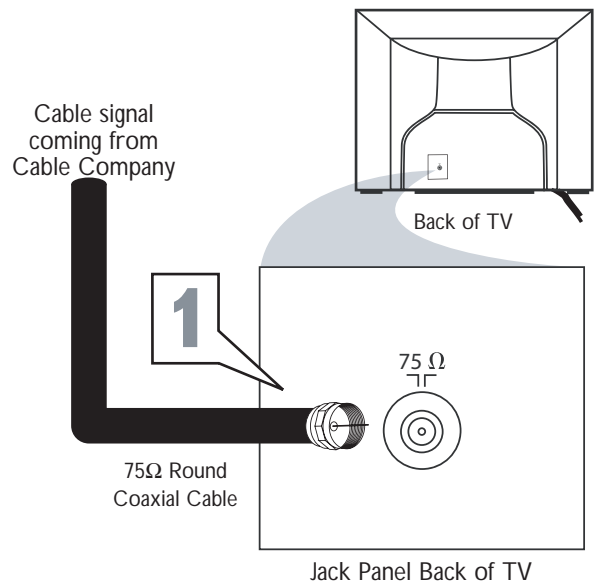
Antenna Connection

Combination
VHF/UHF Antenna
(Outdoor or Indoor)

300 to 75Ω
Adapter

Back of TV

1

Twin Lead
Wire

75 Ω

2

Round Cable
75Ω

BASIC CABLE CONNECTION

I f cable TV signal into your home is a single cable (75 ohm) the connection to the TV is easy.

1 **Connect the Cable TV** cable directly to the 75Ω jack on the TV.

Direct Cable Connection

Cable signal
coming from
Cable Company

Back of TV

1

75 Ω

75Ω Round
Coaxial Cable

Jack Panel Back of TV

HELPFUL HINTS

If no Video Signal is present, the TV will shut itself off in about 10 minutes. If the TV is tuned to the AV channel and there is no Video Signal present, the screen will remain blank and the TV will shut itself off in about 10 minutes.

Use Auto Program as described on page 9 to setup channels that are available in your area. Use the **CH + / -** buttons to scan available channels.
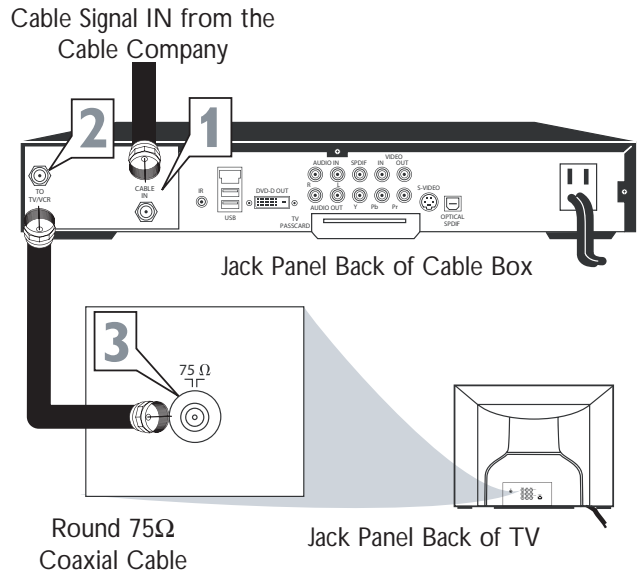
CABLE BOX CONNECTION

*I*f your cable signal uses a cable box or decoder, follow the steps below to complete the connection.

Cable Box (w/RF In/Outputs) :

1 **Connect the Cable Company supplied cable** to the signal IN(put) plug at the back of the Cable Box.

2 Using a separate round coaxial cable, connect one end of the **OUT(put) to TV plug on the back of the Cable Box.**

3 Connect the other end of the round coaxial cable to the 75Ω input on the back of the television. Screw it down finger tight.

NOTE : If applicable , set the OUTPUT CHANNEL SWITCH on the back of the cable box to CH3 or 4. Tune the TV to the same channel and change channels at the cable box. In some cases, the cable box will automatically tune to either channel 3 or 4, change channels until the picture appears.

Cable Box (w/RF In/Outputs):

Cable Signal IN from the
Cable Company

Jack Panel Back of Cable Box

75 Ω
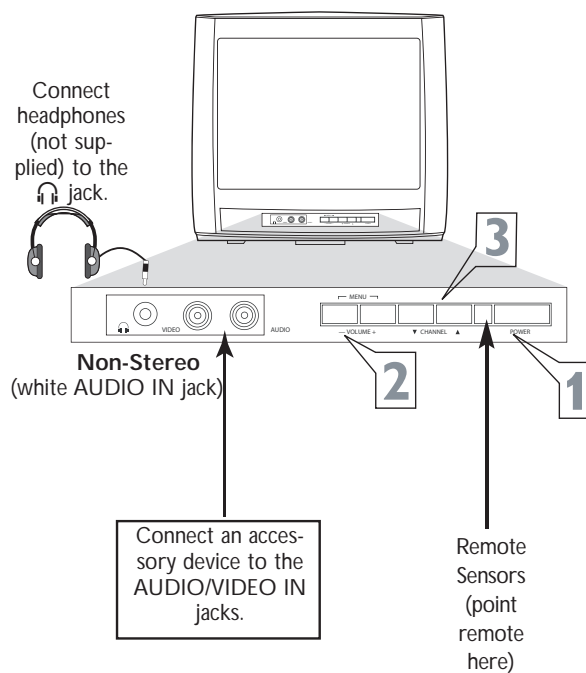
Round 75Ω
Coaxial Cable

Jack Panel Back of TV

HELPFUL HINTS

If no Video Signal is present, the TV will shut itself off in about 10 minutes. If the TV is tuned to the AV channel and there are no Video Signal present, the screen will remain black and the TV will shut itself off in about 10 minutes.

1 **Press the POWER button** to turn the TV ON.

2 **Press the VOLUME + button** to increase the sound level, or the **VOLUME - button** to lower the sound level.

3 **Press the CHANNEL ▲ or ▼** to select TV channels.

4 **Point the remote control** toward the remote sensor window on the TV when operating the TV with the remote.
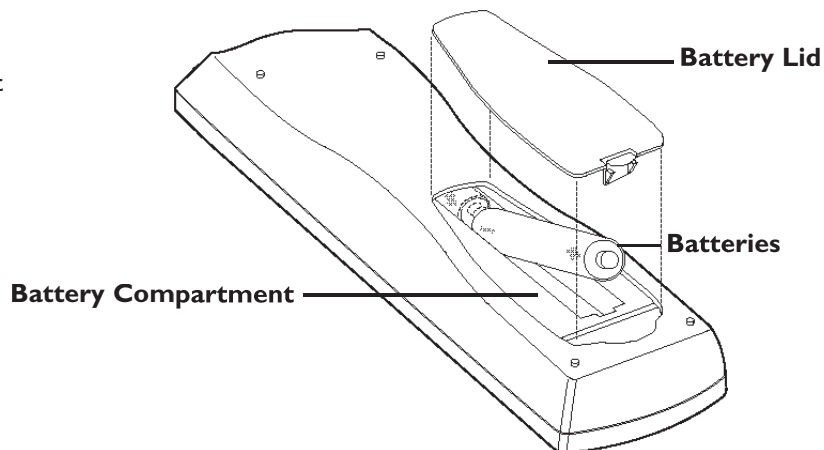
Connect headphones (not supplied) to the ⌂ jack.

3

Non-Stereo
(white AUDIO IN jack)

VIDEO   AUDIO   MENU   VOLUME +   ▼ CHANNEL ▲   POWER

2   **1**

Connect an accessory device to the AUDIO/VIDEO IN jacks.

Remote Sensors (point remote here)

Battery Installation

*T*o load the supplied batteries into the remote :

Back of Remote Control

1 **Remove the battery compartment lid** at the back of the remote.

2 Place the batteries (2-AA) in the remote. Be sure the (+) and (-) ends of the batteries line up correctly as marked on the inside of the case.

3 **Reattach the battery lid.**

Battery Lid

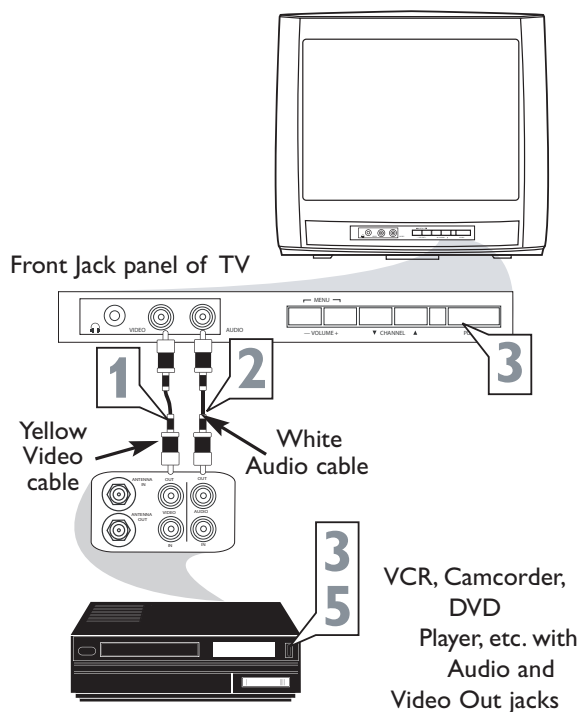**Batteries**

Battery Compartment

HELPFUL HINTS

The current channel number will appear briefly when you first turn on the TV or when you change channels.

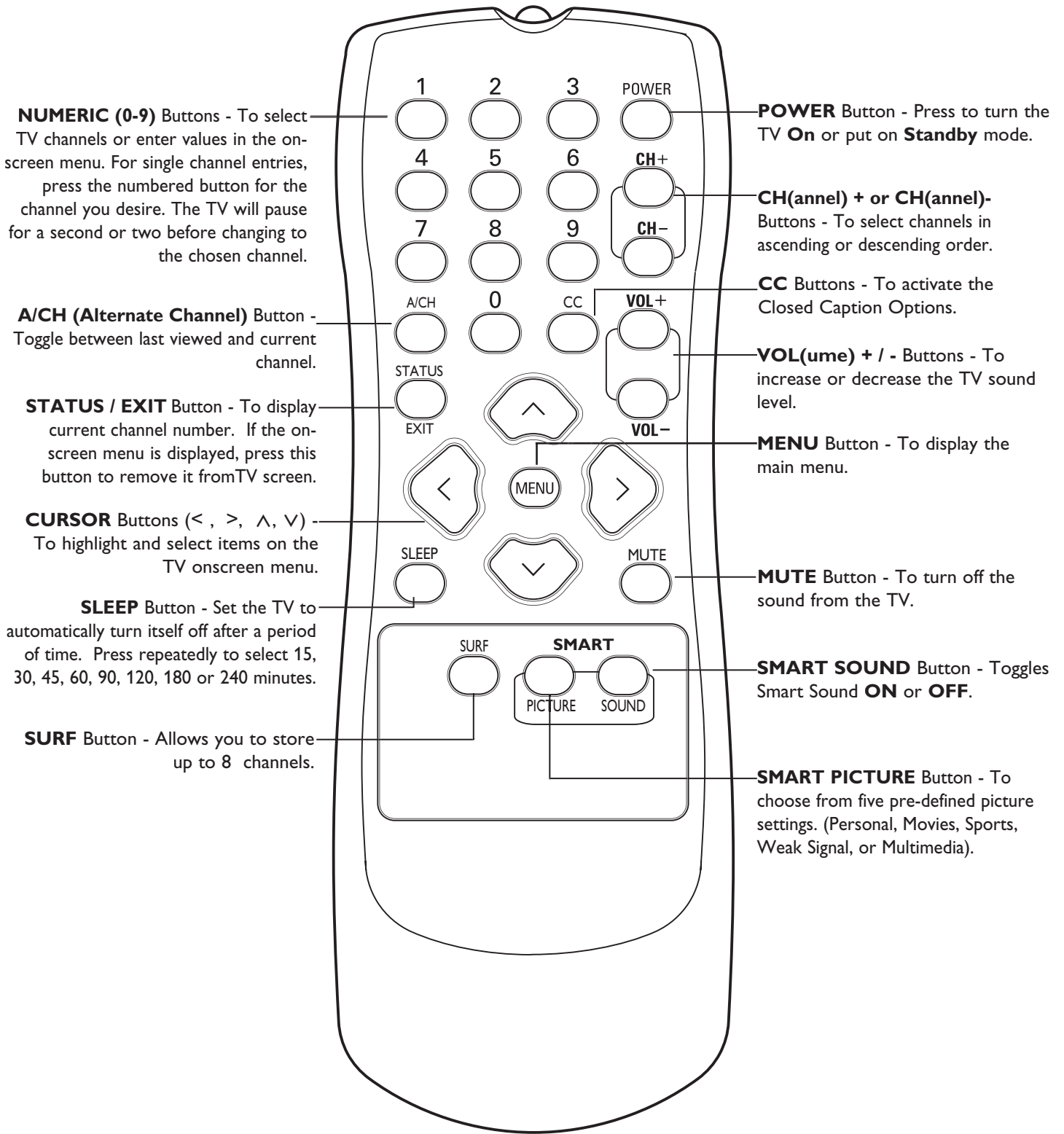Press *STATUS/EXIT* on the remote control to see the current channel number.

FRONT AV (AUDIO/VIDEO) INPUT CONNECTION

*A*udio and Video Front Inputs are available for a quick connection to a VCR, to playback video from a camera or attach a gaming device. Use the *AV* button on the remote control to tune these inputs.

1 **Connect the VIDEO (yellow)** cable from the VIDEO output on the Camera (or accessory device) to the Video (yellow) Input located on the FRONT of the TV.

2 Connect one end of the audio cable from the Audio Out jack on the device to the Audio In (white) jack on the FRONT of the TV.

3 Turn the TV and the accessory device ON.

4 Press the *CH+* or *CH-* button on the remote control to tune the TV to the front input jacks. "*AV*" will appear on the TV screen.

5 **Press PLAY ▶ button** on the accessory device to view playback, or to access the accessory device (camera, gaming unit, VCR etc.).
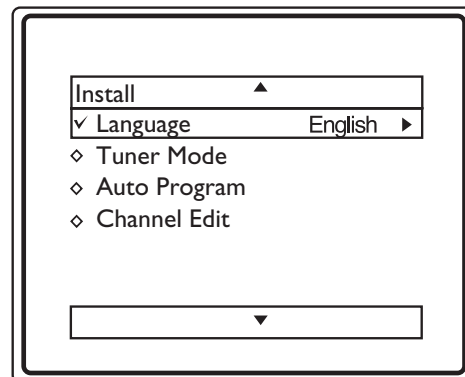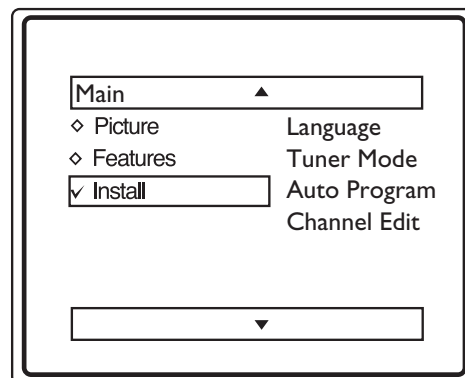
Front Jack panel of TV

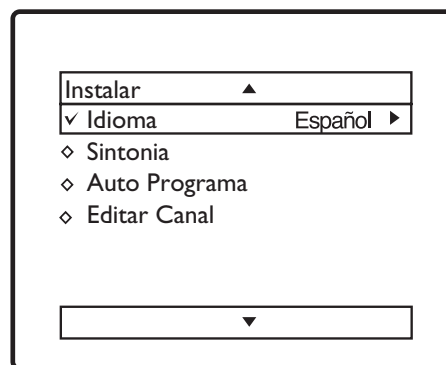Yellow Video cable

White Audio cable

VCR, Camcorder, DVD Player, etc. with Audio and Video Out jacks

NUMERIC (0-9) Buttons - To select TV channels or enter values in the on-screen menu. For single channel entries, press the numbered button for the channel you desire. The TV will pause for a second or two before changing to the chosen channel.

A/CH (Alternate Channel) Button - Toggle between last viewed and current channel.

STATUS / EXIT Button - To display current channel number. If the on-screen menu is displayed, press this button to remove it from TV screen.

CURSOR Buttons (< , >, ∧, ∨) - To highlight and select items on the TV onscreen menu.

SLEEP Button - Set the TV to automatically turn itself off after a period of time. Press repeatedly to select 15, 30, 45, 60, 90, 120, 180 or 240 minutes.

SURF Button - Allows you to store up to 8 channels.

POWER Button - Press to turn the TV **On** or put on **Standby** mode.

CH(annel) + or CH(annel)- Buttons - To select channels in ascending or descending order.

CC Buttons - To activate the Closed Caption Options.

VOL(ume) + / - Buttons - To increase or decrease the TV sound level.

MENU Button - To display the main menu.

MUTE Button - To turn off the sound from the TV.

SMART SOUND Button - Toggles Smart Sound **ON** or **OFF**.

SMART PICTURE Button - To choose from five pre-defined picture settings. (Personal, Movies, Sports, Weak Signal, or Multimedia).

*F*or French and Spanish speaking TV owners an on-screen LANGUAGE option is present. With the LANGUAGE control you can set the TV's on-screen menu to be show in English, French or Spanish.
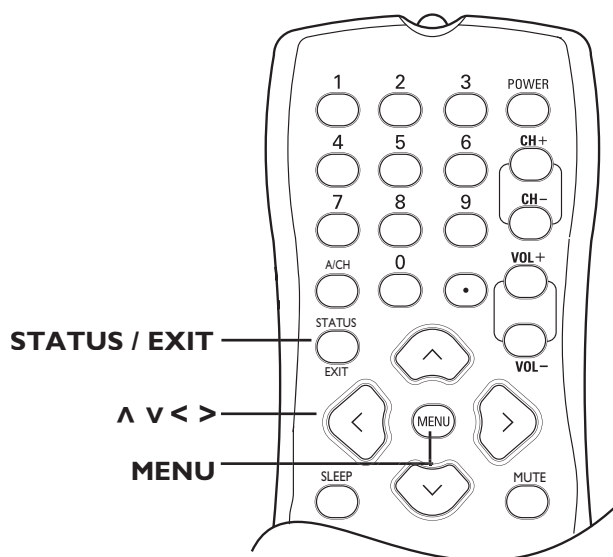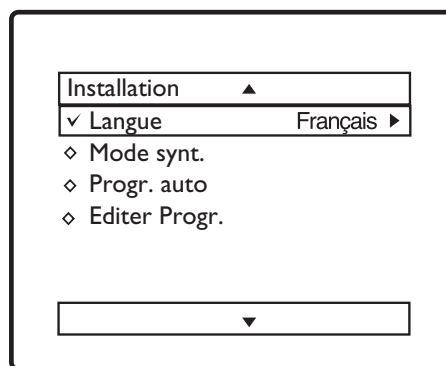
1 **Press the MENU button** on the remote control to show the on-screen menu.

2 **Press the CURSOR** ∧ **or** ∨ to scroll through the on-screen menu until the word **INSTALL** is highlighted.

3 **Press the CURSOR >** to display the **INSTALL** menu features.

4 **Press the CURSOR** ∧ **or** ∨ to scroll through the Install features until the word **LANGUAGE** is highlighted.

5 **Press the CURSOR >** **repeatedly** to select English, Francais (French), or Espanol (Spanish).

6 **When finished, press the STATUS / EXIT button** on the remote control to remove the menu from the TV's screen.

Main	▲	
◇ Picture		Language
◇ Features		Tuner Mode
✓ Install		Auto Program
		Channel Edit
	▼	

Install	▲	
✓ Language		English ▶
◇ Tuner Mode		
◇ Auto Program		
◇ Channel Edit		
	▼	

OR

Instalar	▲	
✓ Idioma		Español ▶
◇ Sintonia		
◇ Auto Programa		
◇ Editar Canal		
	▼	

OR

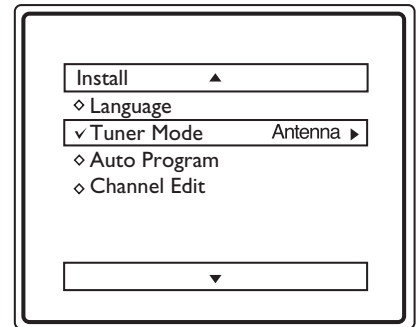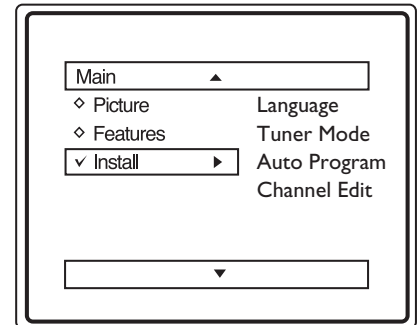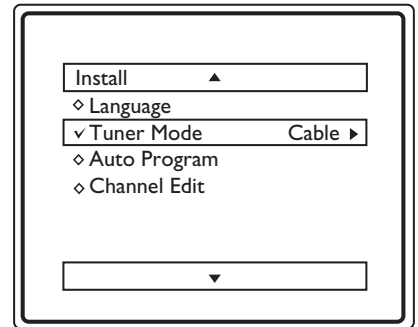| Installation	▲	
✓ Langue		Français ▶
◇ Mode synt.		
◇ Progr. auto		
◇ Editer Progr.		
	▼	

STATUS / EXIT

∧ ∨ < >

MENU

HOW TO USE THE TUNER MODE CONTROL

*T*he TUNER MODE control allows you to change the TV's input signal to either *ANTENNA*, *CABLE* or *AUTO* mode. It is important for the TV to know which type of signal to look for (Antenna or Cable). In the AUTO mode, when the AUTO PROGRAM feature is activated, the TV will automatically choose the correct mode.
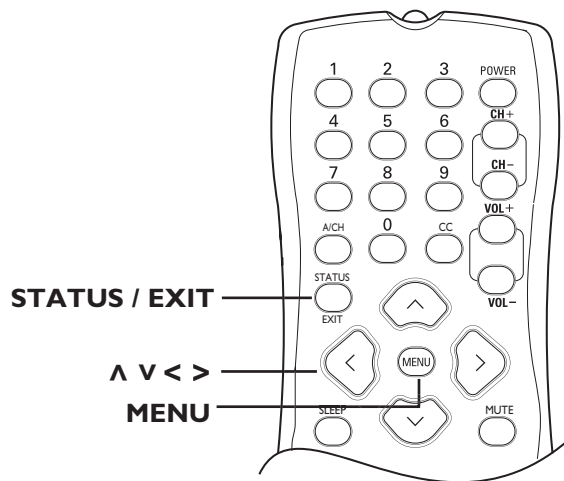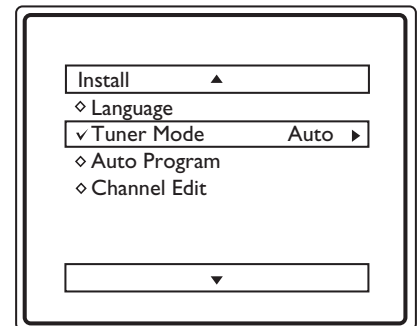
1 **Press the MENU button** on the remote control to show the on-screen menu.

2 **Press the CURSOR** ∧ **or** ∨ to scroll through the on-screen menu until the word **INSTALL** is highlighted.

3 **Press the CURSOR >** to display the **INSTALL** menu features.

4 **Press the CURSOR** ∧ **or** ∨ to scroll through the Install features until the word **TUNER MODE** is highlighted.

5 **Press the CURSOR >** to select **ANTENNA, CABLE or AUTO** mode.

6 **When finished, press the STATUS / EXIT button** on the remote control to remove the menu from the TV's screen.

Main	▲	
◇ Picture		Language
◇ Features		Tuner Mode
✓ Install	▶	Auto Program
		Channel Edit
	▼	

Install	▲
◇ Language	
✓ Tuner Mode	Antenna ▶
◇ Auto Program	
◇ Channel Edit	
	▼

OR

Install	▲
◇ Language	
✓ Tuner Mode	Cable ▶
◇ Auto Program	
◇ Channel Edit	
	▼

OR

Install	▲
◇ Language	
✓ Tuner Mode	Auto ▶
◇ Auto Program	
◇ Channel Edit	
	▼

STATUS / EXIT

∧ ∨ < >

MENU

HELPFUL HINTS

When CABLE is selected, channels **1 - 125** are available.

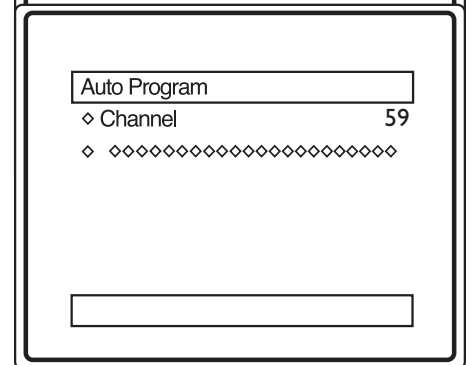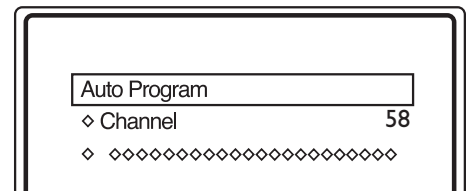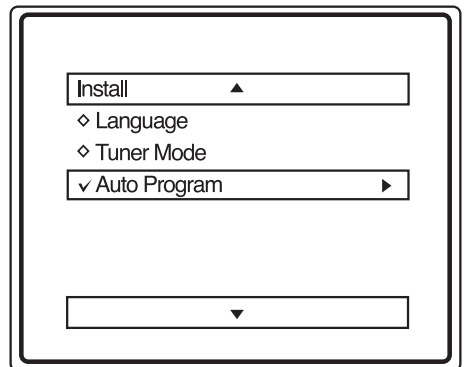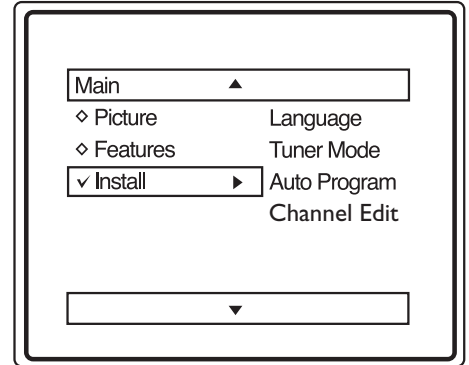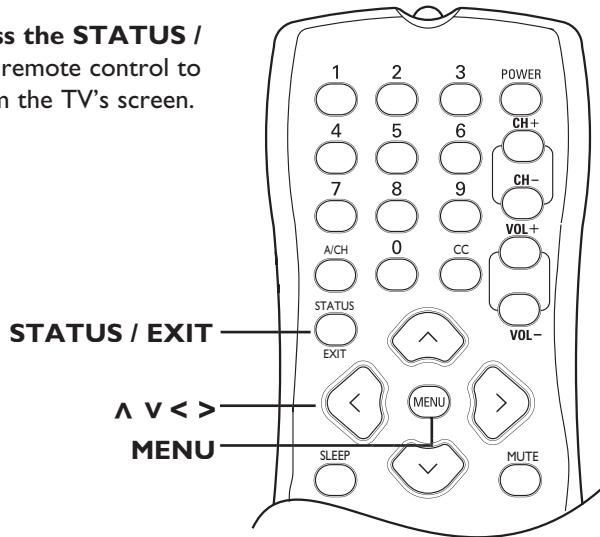When ANTENNA is selected, channels **2 - 69** are available.

When AUTO is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects when the AUTO PROGRAM feature is activated.

AUTOMATIC PROGRAM

*Y*ou can auto install programs on your TV. This makes it easy for you to select only the TV stations in your area when the *CH+* or *CH–* buttons are pressed.

NOTE : Ensure that the Antenna or Cable signal connection has been completed before AUTO PROGRAM is activated.

1 **Press the MENU button** on the remote control to show the on-screen menu.

2 **Press the CURSOR ∧ or ∨** to scroll through the on-screen menu until the word **INSTALL** is highlighted.

3 **Press the CURSOR >** to display the **INSTALL** menu features.

4 **Press the CURSOR ∧ or ∨** to scroll through the Install features until the word **AUTO PROGRAM** is highlighted.

5 Press **CURSOR >** to start the Auto Program scanning of channels. Auto Programing will store all available channels in the TV's memory then tune to the lowest available channel when done.

6 **When finished, press the STATUS / EXIT button** on the remote control to remove the menu from the TV's screen.
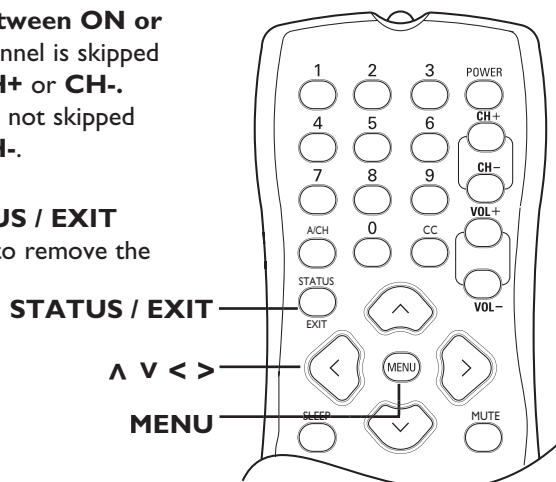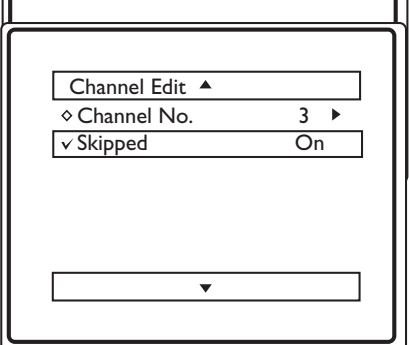
STATUS / EXIT

∧ ∨ < >

MENU

Main ▲	
◇ Picture	Language
◇ Features	Tuner Mode
∨ Install ▶	Auto Program
	Channel Edit
▼	

Install ▲
◇ Language
◇ Tuner Mode
∨ Auto Program ▶
▼

Auto Program
◇ Channel   58
◇ ◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇

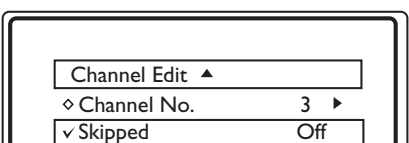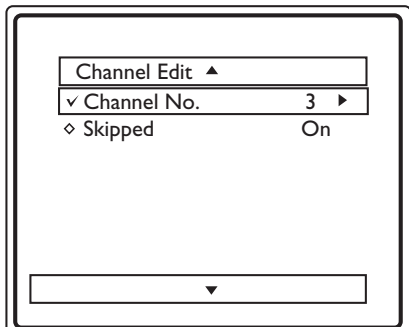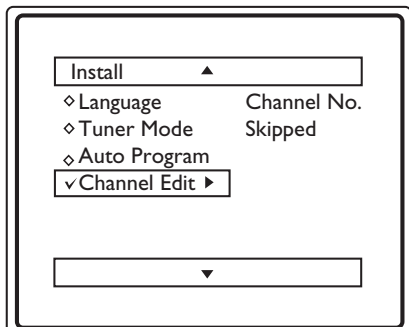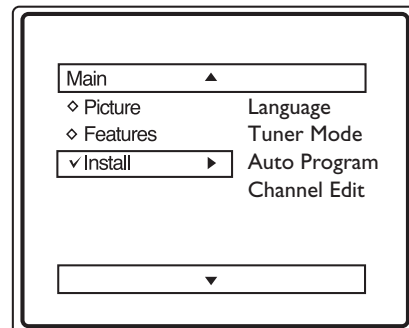| Auto Program |
|---|
| ◇ Channel   59 |
| ◇ ◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇ |

HELPFUL HINTS

When *CABLE* is selected, channels 1 - 125 are available.

When *ANTENNA* is selected, channels 2 - 69 are available.

When *AUTO* is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects.

CHANNEL EDIT (ADD OR SKIP CHANNELS)

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

1 **Press the MENU button** on the remote control to show the on-screen menu.

2 **Press the CURSOR** ∧ **or** ∨ to scroll through the on-screen menu until the word **INSTALL** is highlighted.

3 **Press the CURSOR >** to display the **INSTALL** menu features.

4 **Press the CURSOR** ∧ **or** ∨ to scroll through the Install features until the word **CHANNEL EDIT** is highlighted.

5 **Press the CURSOR >** to select **CHANNEL EDIT options.**

6 **With the CHANNEL EDIT options displayed, and CHANNEL NO.** highlighted, you can use the **CURSOR > OR <** to scroll through all available channel that you wish to **ADD** (skipped OFF) or **SKIP** (skipped ON) from the TV's memory. You can also use the **NUMERIC buttons** to go directly to a specific channel that you want to add or skip. Or, you can use the **CH+** or **CH-** to scan through the channels that have not been skipped.

7 **Using the CURSOR V,** scroll the menu to highlight the word SKIPPED.

8 Use **CURSOR > to toggle between ON or OFF.** If **ON** is selected the channel is skipped when scrolling channels with **CH+** or **CH-.** If **OFF** is selected the channel is not skipped when scrolling with **CH+** or **CH-.**

9 **When finished, press STATUS / EXIT button** on the remote control to remove the menu from the screen.

STATUS / EXIT

∧ V < >

MENU

Main ▲	
◇ Picture	Language
◇ Features	Tuner Mode
∨ Install ▶	Auto Program
	Channel Edit
▼	

Install ▲	
◇ Language	Channel No.
◇ Tuner Mode	Skipped
◇ Auto Program	
✓ Channel Edit ▶	
▼	

Channel Edit ▲	
✓ Channel No.	3 ▶
◇ Skipped	On
▼	

Channel Edit ▲	
◇ Channel No.	3 ▶
✓ Skipped	Off

Channel Edit ▲	
◇ Channel No.	3 ▶
✓ Skipped	On

HELPFUL HINTS

An "X" appearing in front of any channel will indicate that channel has skipped ON. When the *CH+* or *CH-* buttons are used, those channels will be skipped.

13

PICTURE MENU CONTROLS

*T*o adjust your TV picture controls, select a channel and use the Picture Menu Controls listed below. Your selection is stored as **Personal**.

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

2 Press **CURSOR** ∧ or ∨ until the **Picture menu** feature is highlighted.

3 Press **CURSOR >** or **<** to adjust

Brightness Control - until the darkest parts of the picture are as bright as you want.
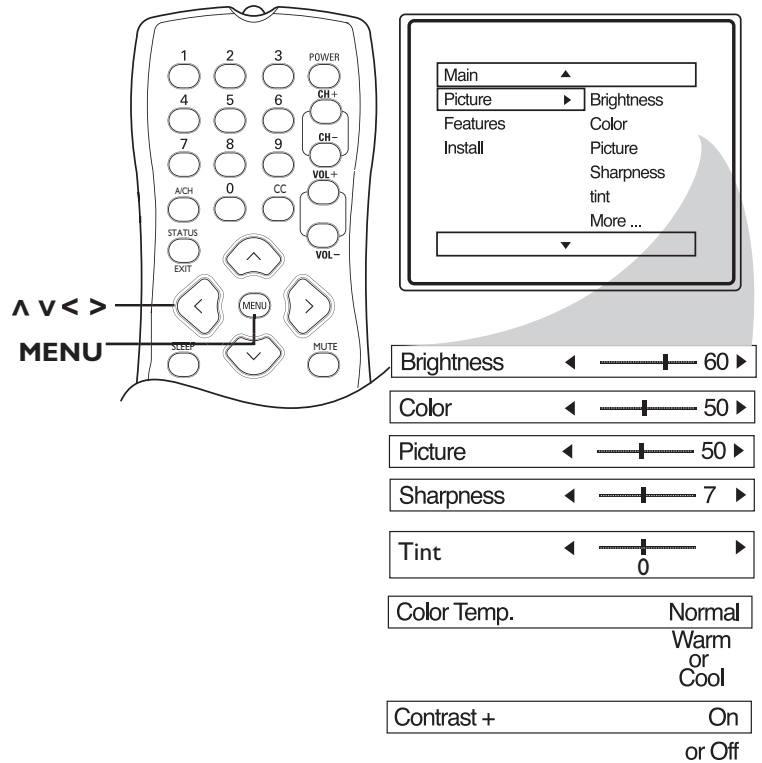
Color - to add or remove color.

Picture - adjust until the lightest parts of the picture show good detail.

Sharpness - to improve sharpness in the picture.

Tint - adjust natural skin tones in the picture quality.

Color Temp - to select Normal, Cool, or Warm picture preferences. For Normal, whites will maintain their whiteness; Cool will make the whites bluish; and Warm will make the whites reddish.

Contrast + - when set to **On**, the *Contrast +* control helps to "sharpen" the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.

∧ ∨ < >

MENU

Main	▲	
Picture	▶	Brightness
Features		Color
Install		Picture
		Sharpness
		tint
		More ...
	▼	

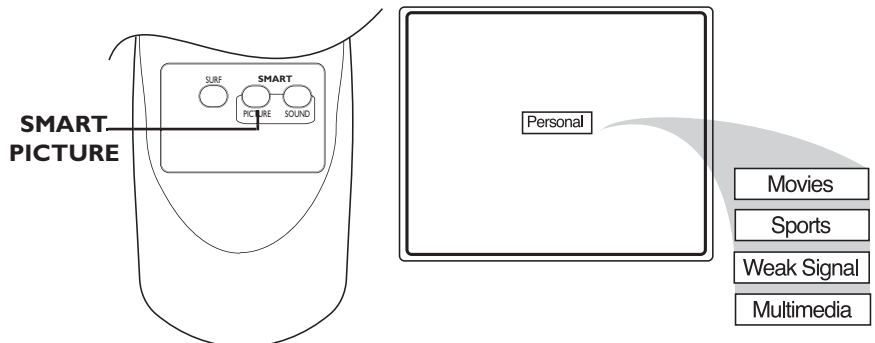| Brightness | ◄ ———┼— 60 ▶ |
Color	◄ —————┼ 50 ▶
Picture	◄ —————┼ 50 ▶
Sharpness	◄ ———┼—— 7 ▶
Tint	◄ ———┼———— ▶
	0
Color Temp.	Normal Warm or Cool
Contrast +	On or Off

SMART PICTURE

*W*hether you're watching a movie or a sporting event, your TV has automatic video control settings to enhance your current program source or content.

1 Press **SMART PICTURE** button on the remote control. The current Smart Picture setting will display on the screen.

2 Press **SMART PICTURE** repeatedly to select either **Personal, Movies, Sports, Weak Signal** or **Multimedia** picture settings.

SMART PICTURE

Personal

Movies
Sports
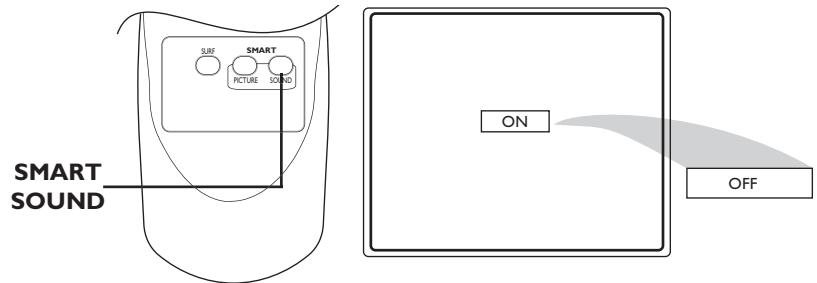Weak Signal
Multimedia

NOTE: The way you choose to set the Picture Menu Controls will become your Personal setting.

SMART SOUND

When **ON** is chosen the Smart Sound feature will level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes.
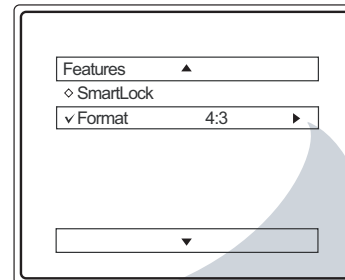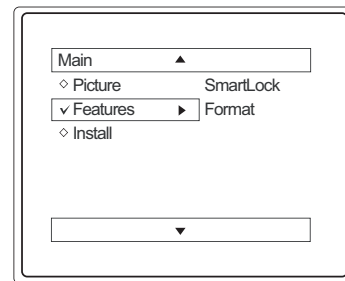
1 Press **SMART SOUND** button on the remote control to toggle between ON and OFF.

THE 4:3 EXPAND FORMAT CONTROL

Many times while watching movies from a DVD player, the image is shown in "letterbox" format. This is the format shown in movie theaters. When shown on TV screen, the image will have areas of black on top and bottom of the screen.

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

2 Press **CURSOR** ∨ until **Features** is highlighted.

3 Press **CURSOR >** to display the **Features menu** options (SmartLock or Format).

4 Press **CURSOR** ∨ to highlight **Format**.

5 Press **CURSOR > or <** to select one of the two options **4:3 or Expand 4:3.**

4:3 - Standard format for the TV.

Expand 4:3 - Enlarges the picture to fill out the entire screen area, eliminating the "letterbox" effect.

6 When finished, press **STATUS / EXIT** button on the remote control to remove the menu from the TV's screen.

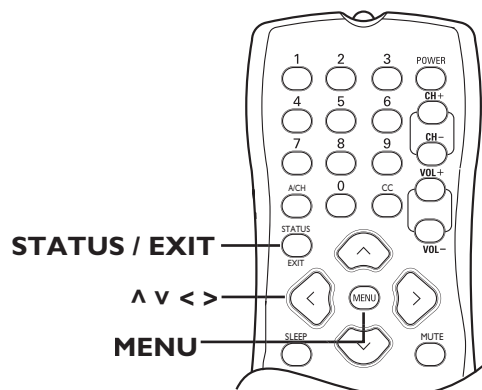**NOTE :** The Expand 4:3 and can also be activated using the **CURSOR** ∧ **or** ∨ when the onscreen menu is not being displayed. Pressing these buttons will toggle between **Standard 4:3** and **Expand 4:3**.

4:3   Expand 4:3

UNDERSTANDING SMARTLOCK CONTROLS

*S*martLock is a feature that lets the TV receive and process data sent by broadcasters or other program providers with program content advisory. When programmed by the viewer, a TV with SmartLock can respond to the content advisory and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This feature is useful for adults to prevent certain types of programs from being viewed by children.

SmartLock offers various BLOCKING controls to choose from:

Access Code - An Access Code must be set to prevent children from unblocking questionable or censored programming set by their parents.

Channel Block - After an access code has been programmed, you can block individual channels including the A/V inputs.

Clear All - Lets you clear all channels being blocked from your viewing set with the Channel Block Control.

Block All - Lets you block ALL channels including A/V inputs.

No Rating - ALL programming with no content advisory data can be blocked if ***NO RATING*** is set to ON.

Movie Ratings - Certain blocking options exist which will block programming based on ratings patterned by the Motion Pictures Association of America (MPAA).

TV Ratings - Like the Movie Ratings, programs can be blocked from viewing using standard TV ratings set by TV broadcasters.

Unrated - ALL unrated programs based on the Movie Ratings or Parental TV Guidelines can be blocked if ***UNRATED*** is set to ON.

MOVIE RATINGS

G: General Audience - All ages admitted. Suitable for all ages.

PG: Parental Guidance Suggested - Contains material unsuitable for younger children.

PG-13: Parents Strongly Cautioned - Contains material unsuitable for children under the age of 13.

R: Restricted - Suitable for adults above 17 years of age only.

NC-17: No one under the age of 17 will be admitted.

X: Adults Only - 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 RATINGS

TV-Y : Designed for a very young audience, including children ages 2-6

TV-Y7: Appropriate for children age 7 and above who have acquired the development skills needed to distinguish between make-believe and reality.
acquired the development skills needed to distinguish between make-believe and reality.

TV-G : Suitable for most audiences. Contains little or no violence, no strong language, and little or no sexual dialogue or situations.

TV-PG: Contains material unsuitable for younger children. Could contain Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

TV-14: Contains some material unsuitable for children under 14 years of age. Contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).
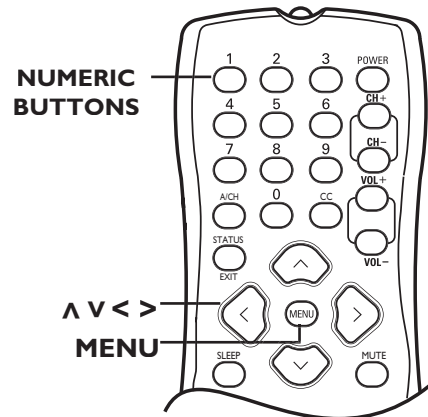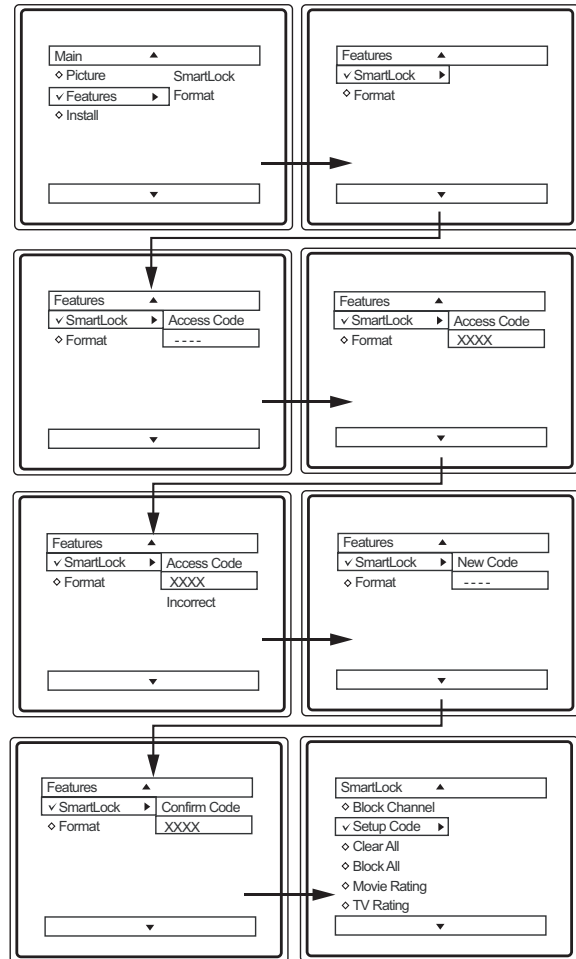
TV-MA - Viewed by adults and therefore may be unsuitable for children under 17. Contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

O ver the next few pages you'll learn how to block channels . To get a better understanding of the rating terms for certain programs refer to page 17.

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

2 Press **CURSOR** ∧ or ∨ until **Features** is highlighted.

3 Press **CURSOR >** to display the **Features menu** options.

4 Press **CURSOR** ∧ or ∨ until the word **SMARTLOCK** is highlighted.

5 Press **CURSOR >** and the screen will read, **"ACCESS CODE - - - - ."**

6 Using the **NUMERIC buttons** enter **0 7 1 1**. "**XXXX**" appears on the Access Code screen as you press the numbered buttons.

"**INCORRECT CODE**" will appear on the screen and you will need to enter 0 7 1 1 again.

7 The screen will ask you to enter a "New Code". **Enter a "new" 4 digit code using the NUMERIC buttons** on the remote control. You will be asked to CONFIRM the code. Enter the new code again "XXXX" will appear when you enter your new code and then display the SmartLock menu options.
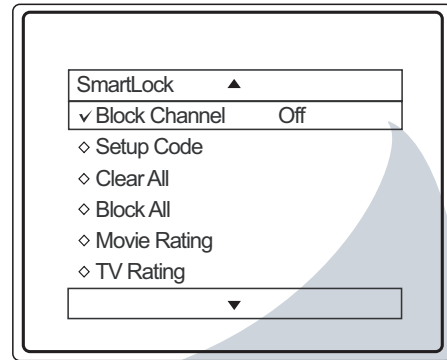
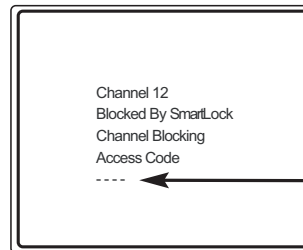Proceed to the next page to learn more....

BLOCK CHANNELS

After your personal access code has been set (see previous page), you are now ready to select the channels or the A/V inputs you want to block. Once you've entered your access code and the SmartLock features are displayed on the screen :

1 **Press the CURSOR** ∧ **or** ∨ until the words **BLOCK CHANNELS** are highlighted**.**

2 Press **CURSOR** > to turn blocking **ON** or **OFF** for that channel. When **ON** is selected the channel will be blocked.

3 Press **CH+ or CH-** to select other channels you wish to block. Repeat step 2 to block the new channel.

4 To Unblock a channel, use the **CH+** or **CH-** to scroll to the channel you wish to unblock.   The screen will show a message telling you that the channel has been blocked by SmartLock and you have to Enter your Access Code to unblock the channel.

5 Use the **NUMERIC** Buttons, key in your Access Code. The Blocked channel will be UnBlocked.
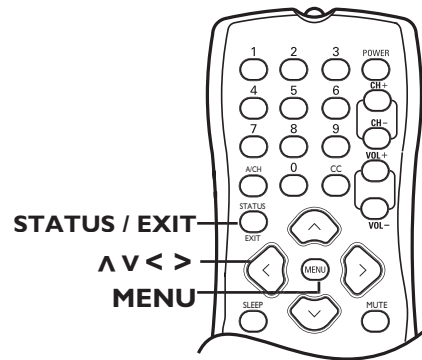
NOTE : If you forget your code, key **0 7 1 1**. This is the factory default. Enter this code to create a new access code.

SmartLock	▲
✓ Block Channel	Off
◇ Setup Code	
◇ Clear All	
◇ Block All	
◇ Movie Rating	
◇ TV Rating	
▼	

✓ Block Channel   On

Channel 12
Blocked By SmartLock
Channel Blocking
Access Code
- - - -

Enter your Access Code to view a tuned channel that is blocked with Block Channel.

STATUS / EXIT

∧ ∨ < >

MENU

18

*T*his is a continuation of the previous page. After blocking specific channels there may come a time when you want to block or clear all the channels at the same time.

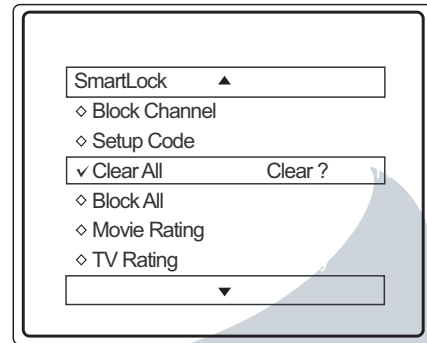Once you've entered your access code and the SmartLock features displayed on the screen;

1 **Press the CURSOR ∧ or ∨** to select either **CLEAR ALL** or **BLOCK ALL**.

2 If **CLEAR ALL** is selected, press **CURSOR >** to clear all blocked channels. All channels will be viewable. Now all blocked channels can be viewed.
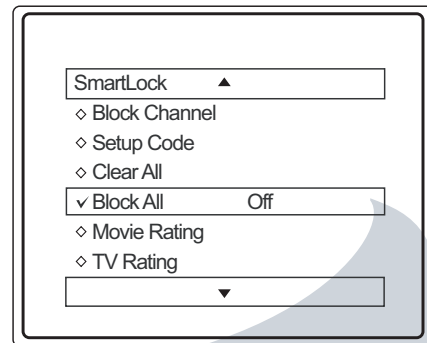
If **BLOCK ALL** is selected, press **CURSOR >** to turn the control **ON** or **OFF**. When **ON** is selected, ALL available channels will be blocked from viewing.

3 When finished, press the **STATUS/EXIT** button on the remote control to remove the menu from the screen.
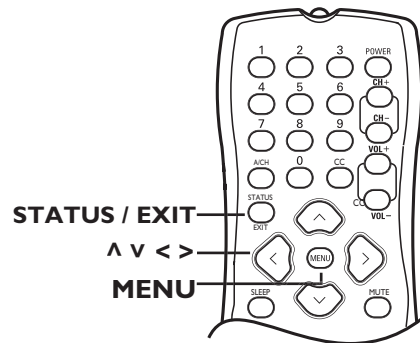
NOTE : If you forget your code, key **0 7 1 1**. This is the factory default. Enter this code to create a new access code.

SmartLock	▲
◇ Block Channel	
◇ Setup Code	
✓ Clear All	Clear ?
◇ Block All	
◇ Movie Rating	
◇ TV Rating	
▼	

✓ Clear All	Cleared

SmartLock	▲
◇ Block Channel	
◇ Setup Code	
◇ Clear All	
✓ Block All	Off
◇ Movie Rating	
◇ TV Rating	
▼	

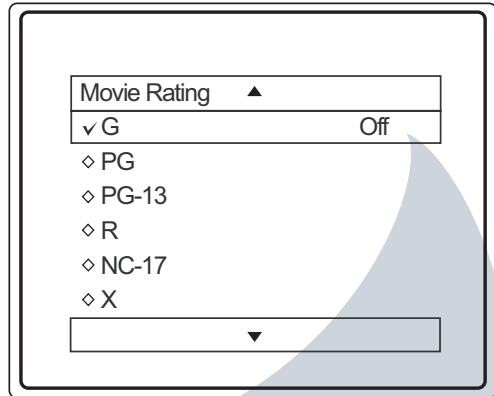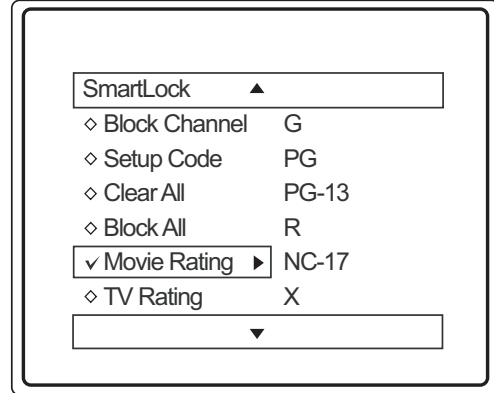| Block All	On

STATUS / EXIT

∧ ∨ < >

MENU

*T*he SmartLock feature can block programs based on the Movie Industry ratings.

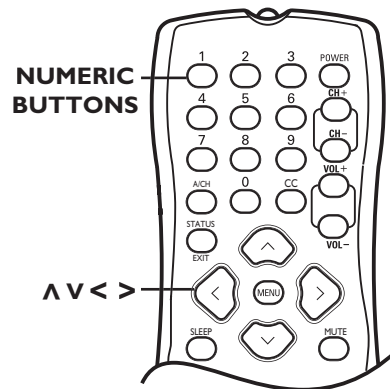Once you've entered your access code and the SmartLock features displayed on the screen;

1 **Press CURSOR ∧ or ∨** to highlight the words **MOVIE RATING.**

2 Press **CURSOR >** button to display the **MOVIE RATING** options (G, PG, PG-13, R, NC-17, or X)

3 Press **CURSOR ∧ or ∨** to highlight any of the Movie Rating options. When highlighted, all these options can be turned **ON** (*which will allow blocking*) or **OFF** (*which will allow viewing*).

4 Use **CURSOR >** to turn the rating option **ON** or **OFF**.

When a rating level is chosen to be blocked. Any higher level rating will also be blocked from viewing (eg. if "R" is selected to be blocked, NC-17 and X will automatically be blocked.)

NOTE : If you forget your code, key **0 7 1 1**. This is the factory default. Enter this code to create a new access code.

SmartLock	▲
◇ Block Channel	G
◇ Setup Code	PG
◇ Clear All	PG-13
◇ Block All	R
✓ Movie Rating ▶	NC-17
◇ TV Rating	X
▼	

Movie Rating	▲
✓ G	Off
◇ PG	
◇ PG-13	
◇ R	
◇ NC-17	
◇ X	
▼	

✓ G	On

NUMERIC BUTTONS

1 2 3 POWER
4 5 6 CH+
7 8 9 CH−
A/CH 0 CC VOL+
STATUS VOL−
EXIT

∧ ∨ < >

MENU
SLEEP MUTE

*T*he SmartLock feature can block programs based on the TV Industry ratings.

Once you've entered your access code and the SmartLock features displayed on the screen;

1 **Press CURSOR ∧ or ∨** to highlight the words **TV RATING.**

2 Press **CURSOR** > button to display the **TV RATING** options (TV-Y, TV-Y7, TV-G, TV-PG, TV-14 or TV-MA)

3 Press **CURSOR ∧ or ∨** to highlight any of the TV Rating options. When highlighted, all these options can be turned **ON** (*which will allow blocking*) or **OFF** (*which will allow viewing*).
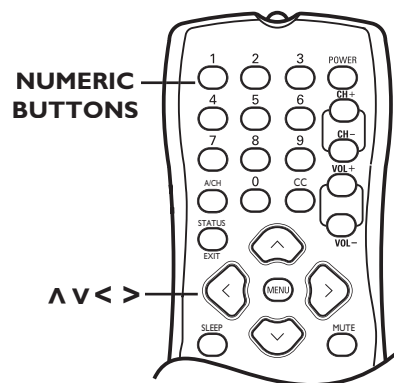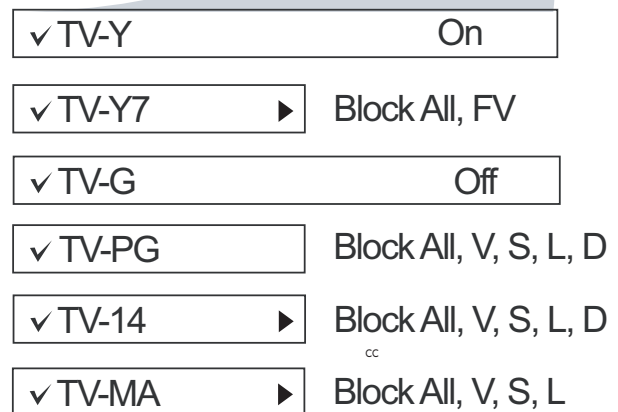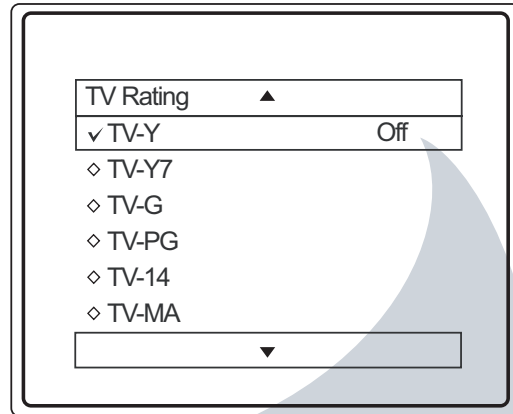
NOTE : Some TV Rating options also have sub-ratings. The ratings of TV-Y7, TV-PG, TV-14, TV-MA can be customized to block V (violence), FV (fantasy violence), S (sex scenes), L (coarse language), or D (Suggestive dialogue).

4 Press **CURSOR** > to turn the TV-Y or TV-G rating **ON** or **OFF**. Or, press **CURSOR** > to enter the sub-menus for the TV-Y7, TV-PG, TV-14 or TV-MA ratings.

5 If the TV-Y7, TV-PG, TV-14 or TV-MA sub-menu is accessed, press **CURSOR ∧ or ∨** to select one of the options (Block All, V, S, L, D or FV).

6 Press **CURSOR** > to turn the option **ON** or **OFF**.

NOTE : If you forget your code, key **0 7 1 1**. This is the factory default. Enter this code to create a new access code.

TV Rating	▲
✓ TV-Y	Off
◇ TV-Y7	
◇ TV-G	
◇ TV-PG	
◇ TV-14	
◇ TV-MA	
▼	

✓ TV-Y	On

✓ TV-Y7	▶ Block All, FV

✓ TV-G	Off

✓ TV-PG	Block All, V, S, L, D

✓ TV-14	▶ Block All, V, S, L, D

✓ TV-MA	▶ Block All, V, S, L

NUMERIC BUTTONS

∧ ∨ < >

BLOCKING OPTIONS

*S*martLock offers the viewer other blocking options as well. With these Blocking options, the censoring can be turned *ON* or *OFF*.

Once you've entered your access code and the SmartLock features displayed on the screen;

1 Press **CURSOR** ∧ **or** ∨ until the words **BLOCKING OPTIONS** are highlighted.

2 Press **CURSOR** > button to display the **Blocking Options (BLOCKING, UNRATED or NO RATING) menu.**
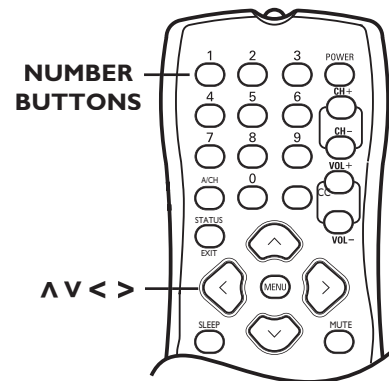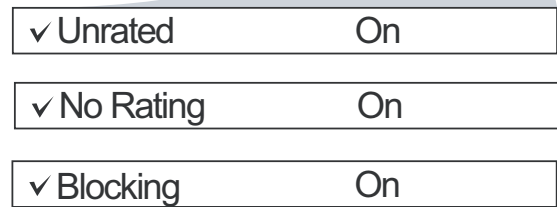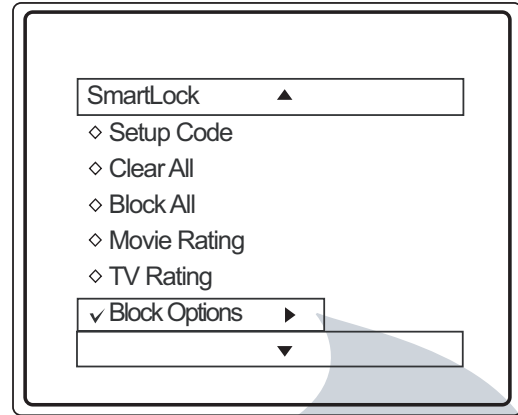
BLOCKING : Might be called the "master switch" for SmartLock. When **ON**, all blocking / censoring will take place. When **OFF**, all blocking is disabled.

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 ON.

NO RATING : All programs with NO content advisory data can be blocked if it is set to ON and the BLOCKING feature is set to ON.

3 Press **CURSOR** ∧ or ∨ to highlight the desired feature.

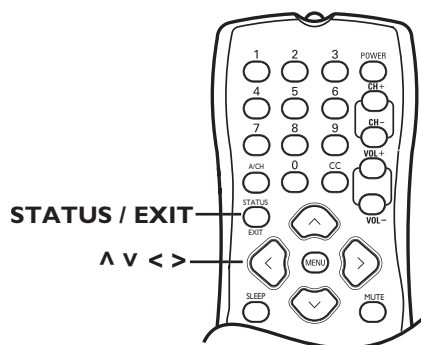**4** When highlighted, each feature can be turned **ON** or **OFF** using **CURSOR** > or <. on the remote control.
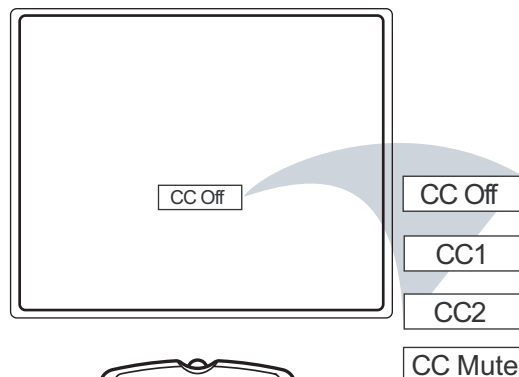
NOTE : If you forget your code, key **0 7 1 1**. This is the factory default. Enter this code to create a new access code.

```
┌─────────────────────────────────┐
│  SmartLock          ▲           │
│  ◇ Setup Code                   │
│  ◇ Clear All                    │
│  ◇ Block All                    │
│  ◇ Movie Rating                 │
│  ◇ TV Rating                    │
│  ✓ Block Options    ▶           │
│                     ▼           │
└─────────────────────────────────┘
```

✓ Unrated   On

✓ No Rating   On

✓ Blocking   On

NUMBER BUTTONS

∧ ∨ < >

22

CLOSE CAPTIONING

*C*lose 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 CC button** to display the current Closed Caption settings.

2 Press the **CC button repeatedly** to choose from the four Closed Caption options (CC Off, CC1, CC2, CC Mute).

3 When finished, press the **STATUS/EXIT** button on the remote control to remove the menu from the TV screen.
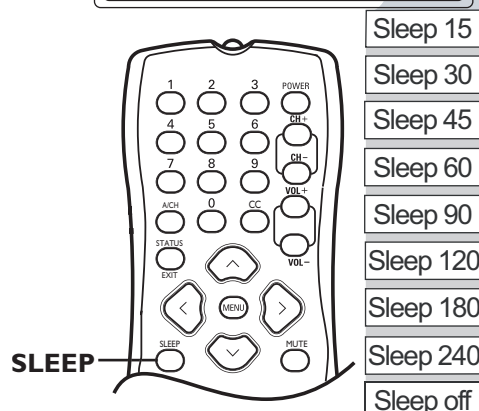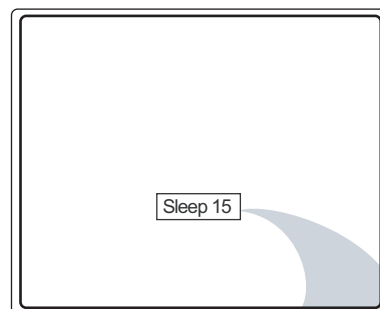
CC Off

CC Off
CC1
CC2
CC Mute

STATUS / EXIT

^ v < >

SLEEPTIMER

*T*he SleepTimer feature allows you to set a timer to automatically turn the TV off after a period of time you choose - 15, 30, 45, 60, 90, 120, 180 or 240 minutes.

1 Press **SLEEP** button on the remote control to display the sleeptimer menu.

2 Press **SLEEP** button on the remote control to select the amount of time (15, 30, 45, 60, 90, 120, 180 or 240 minutes) before the TV automatically switches Off.

NOTE: An onscreen countdown will appear during the last minute before the TV switches Off. If any button is pressed during the last minute of the countdown, the Sleep Timer setting will be cancelled.

Sleep 15

Sleep 15
Sleep 30
Sleep 45
Sleep 60
Sleep 90
Sleep 120
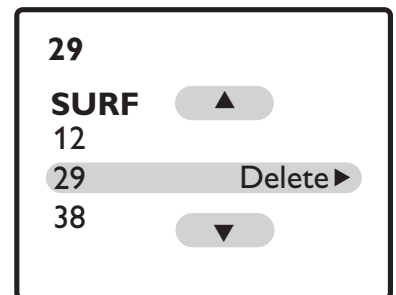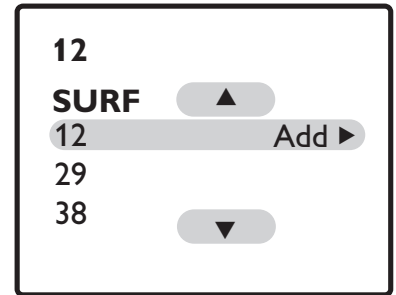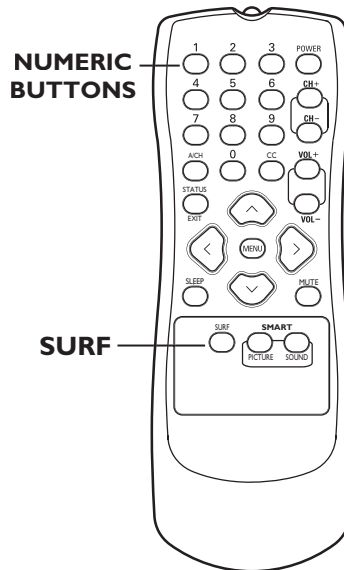Sleep 180
Sleep 240
Sleep off

SLEEP

SMARTSURF

A series of previously viewed channels can be selected with the SURF button. Switch between different TV programs that interest you. SmartSurf lets you set up to five channels in its quick viewing list.

1 Press **CH+ or CH- or the Number buttons)** to select a channel to add to the **SURF** list.

2 Press **SURF** when the channel number appears.

3 Press **CURSOR >** to add the channel to the **SURF** list.
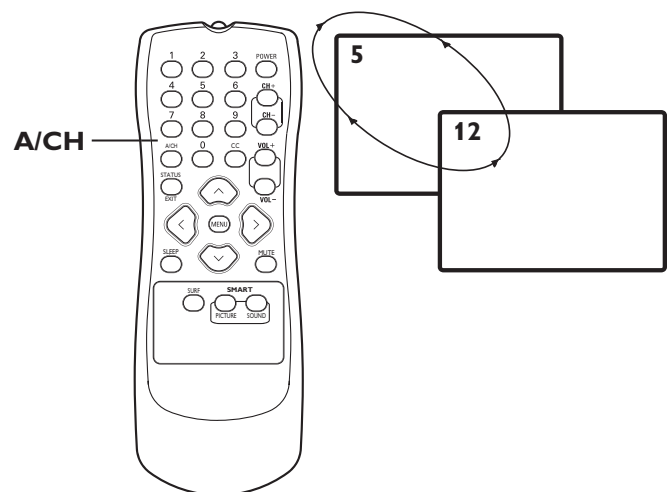
Repeat steps 1 and 3 to add additional channels (up to eight) to the **SURF** list. To remove a channel from the **SURF** list, choose the channel with the **Number buttons** and press **SURF** while the channel number appears. Press **CURSOR** > ; the channel will be removed from the **SURF** list.

NUMERIC BUTTONS

SURF

12	
SURF	▲
12	Add ▶
29	
38	
	▼

29	
SURF	▲
12	
29	Delete ▶
38	
	▼

ALTERNATING CHANNELS WITH A/CH BUTTON

*Y*our remote control has an A/CH (Alternate Channel) button which allows you toggle between the current channel you are watching and the previous channel.

1 Press **A/CH** on the remote control to toggle between the current and previous channel.

A/CH

5

12

GLOSSARY

4:3	4:3 is an aspect ratio of traditional squarish National Television Systems Committee (NTSC) TV screens; it stands for four units of width for every three units of height.
Audio Video (A/V)	A term often used when discussing a channel on a TV receiver or on video equipment, which has been especially designed to accept VCR audio-video signals. This channel automatically activates special circuitry within the TV set to prevent picture distortion and skewing. It is also used for audio-video processors, which handle both types of signals.
Cable Converter Box	A device that allows your television to receive the expanded number of channels provided by broadcasters. Some of these programs provided by the broadcast may not be free, you'll have to pay to view them.
Coaxial Cable	Coaxial cable is a copper cable used to connect cable signal coming from Cable TV Company to the TV.
Composit Video Input Connection	An analog encoded video signal that includes vertical and horizontal synchronizing information. Since both luminance (brightness) and chrominance (color) signals are encoded together, only a signal connection wire is needed. A composite video jack is usually a single RCA-type.
Component Video Input Connection	Provides the highest possible color and picture resolution on the playback of digital signal source material like DVD players. The color difference signals (Pb, Pr) and the luminance(Y) signals are connected separately which allows for improved color bandwidth information (not possible when using composite video or S-Video connections).
Letterbox	Letterbox refers to the image of a wide-screen picture on a standard 4:3 aspect ratio television screen, typically with block
Luminance	The brightness or black-and-white component of a color video signal. Determines the level of picture detail.
NTSC	National television system committee. The organization that developed the analog television standard currently in use in the U.S., Canada, and Japan. Now generally used to refer to that standard. The NTSC standard combines blue, red, and green signals modulated as an AM signal with an FM signal for audio.
S-Video	Separated video. An encoded video signal which separates the brightness from color data. S-Video can greatly improve the picture when connecting TVs to any high quality video source such as digital broadcast satellite (DBS) and DVDs.

TROUBLESHOOTING TIPS

*Check this List of **Symptoms** and **Suggested Steps To Take** before requesting Service. You may be able to solve the problem yourself. If you face problems connecting the TV to external devices, please refer to the User Guide of the external device or call their service centers for help. Charges for TV installation and adjustments of customer controls are not covered under your warranty.*

SYMPTOMS		SUGGESTED STEPS TO TAKE
Installation	Can't get the AV channels on the TV screen.	Press the **CH+ / CH-** button on the remote control repeatedly to select the desired AV channels. Note: SVHS can only be selected if a S-VHS device is connected and powered on.
Installation	TV Displays Wrong Channel or No Channels Above 13	Go to **TUNER MODE** in the television menu and select the correct signal source, then perform the automatic installation again. (Refer to page 11).
Installation	Channel numbers do not follow the channel number of the programs.	Go to **TUNER MODE** in the television menu and select the correct signal source, then perform the automatic installation again. (Refer to page 11).
Sound	Disturbing sound (such as buzzing, clicking, cracking, humming, whistling, etc).	It is normal to hear a disturbing sound (such as buzzing, clicking, cracking, humming, whistling, etc) from a distance less than 2 meters (6 feet) with the television sound muted. If problem occurs on one channel, you may have a signal problem. Please contact the cable provider or local broadcaster regarding the specific channel.
General	No power to the TV	Check the TV power cord. Unplug the power cord from the TV, wait 10 seconds, then reinsert the plug into your wall outlet. Power On the TV again. Plug the power cord directly to the wall socket and not via an extension cord. If you need to use an extension cord, check that the fuse on the AC power strip is not blown.
General	TV is not responding to Remote Control	Ensure the batteries are inserted into the remote control according to the illustration in the battery compartment. Refer to page 7. Reset the television by disconnecting the power plug from the wall outlet for 10 seconds and then reconnecting it again.
General	Remote control is not working	Ensure the batteries are inserted into the remote control according to the illustration in the battery compartment. Refer to page 7. Reset the television by disconnecting the power plug from the wall outlet for 10 seconds and then reconnecting it again.
General	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 "letterbox" 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 problem is inherent and does not require a service call.

CLEANING AND CARE

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 damage of the cabinet finish.

SPECIFICATIONS

	20MT1336
PICTURE / DISPLAY	
Aspect ratio :	4:3
Picture Display Picture Enhancement	20" Black Matrix picture tube, Smart Picture (5 modes) Color, Contrast, Sharpness Control
SOUND Sound Power (Output RMS)	 1W
CONVENIENCE	 Auto Program Closed Captioning Full text Parental Lock
ON SCREEN DISPLAY LANGUAGES	
CONNECTIVITY Front Rear	 CVBS in, Headphone Out Antenna F-type
WEIGHT & DIMENSIONS : Weight (incl. Packaging) : Weight (excl. Packaging) : Visible diagonal / screen size :	 23.6 kg / 51.94 lbs 20 kg / 44.2 lbs 20 inch / 50.8 cm

Specifications and information are subject to change without notice.

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)

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