# User Manual

**STOP!**

Thank you for choosing Philips.

## Need help fast?

Read your Quick Use Guide and/or
Owner's Manual first for quick tips
that make using your Philips product
more enjoyable.
If you have read your instructions
and still need assistance,
you may access our online help at
**www.usasupport.philips.com**
**or call**
**1-888-PHILIPS (744-5477)**
**while with your product**
**(and Model / Serial number)**

# CONTENTS

# FEATURES

**AutoLock** lets you block channels or programs that are not suitable for children or with restricted TV or Movie ratings (Pg. 21).

**Auto Picture** lets you select from five pre-set controls according to your preference. The five pre-set controls (Personal, Movie, Sports, Weak Signal or Multimedia) lets you custom set the TV picture to enhance the picture of the program you are watching (Pg. 18).

**Auto Sound** lets you select from four pre-set controls according to your preference. The four pre-set controls (Personal, Voice, Music, and Theatre) lets you custom set the TV sound to enhance the sound of the program you are watching (Pg. 19).

**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. 17).

**Closed Captioning** allows the viewer to read TV program dialogue or voice conversations as onscreen text (Pg. 28).

**QUADRASURF** allows you to store and surf up to 10 channels you choose for each colored button on the remote control (Pg.29 - 30).

**Sleeptimer** allows the viewer to set a timer to automatically turn the TV off after a period of time (Page. 28)

As an Energy Star® Partner, Philips Consumer Electronics 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.

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

*Registering your model with PHILIPS 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.

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

## PHILIPS

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

**Dear PHILIPS product owner:**

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

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

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

**P.S.  To get the most from your PHILIPS 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.

**PHILIPS** *Visit our World Wide Web Site at http://www.usasupport.philips.com*
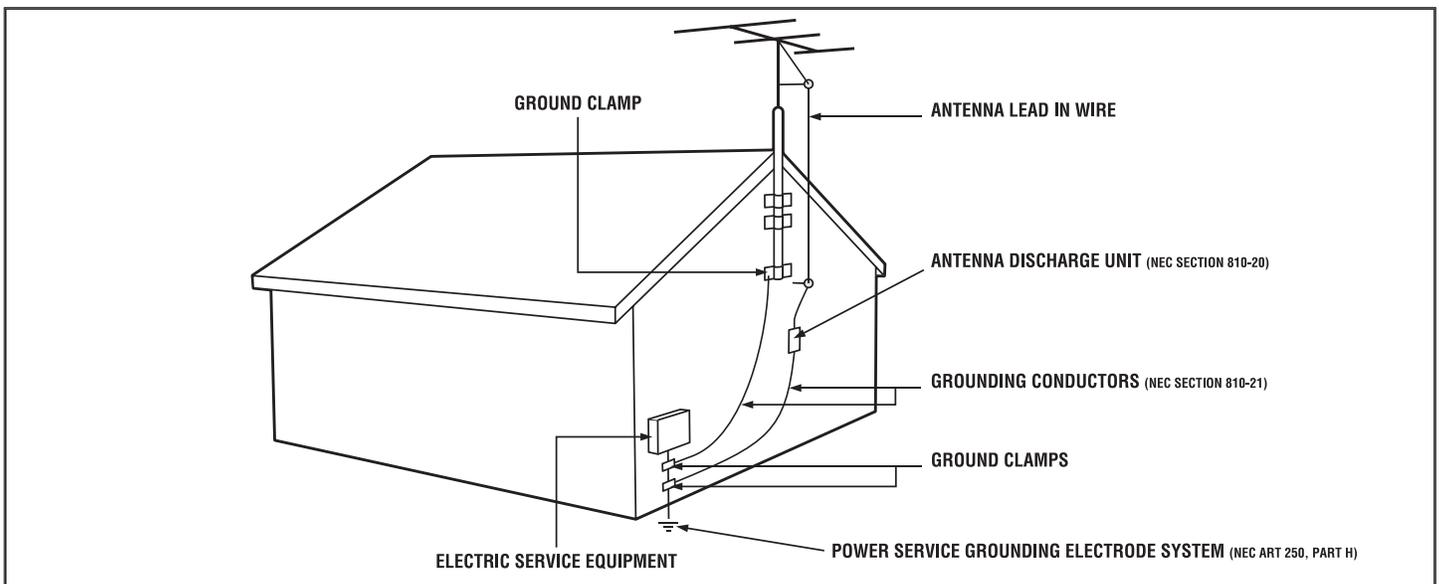
# IMPORTANT SAFETY INSTRUCTIONS
## Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this 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 AND CABLE CONNECTIONS

*Y*our home's signal input might come from a single (75 ohm) round cable, a converter box or from an antenna. In either case the connection to the TV is very easy.

## Antenna Connection

**1** **If your Cable TV signal or Antenna signal is a round cable** (75 ohm) then you are ready to connect to the TV.
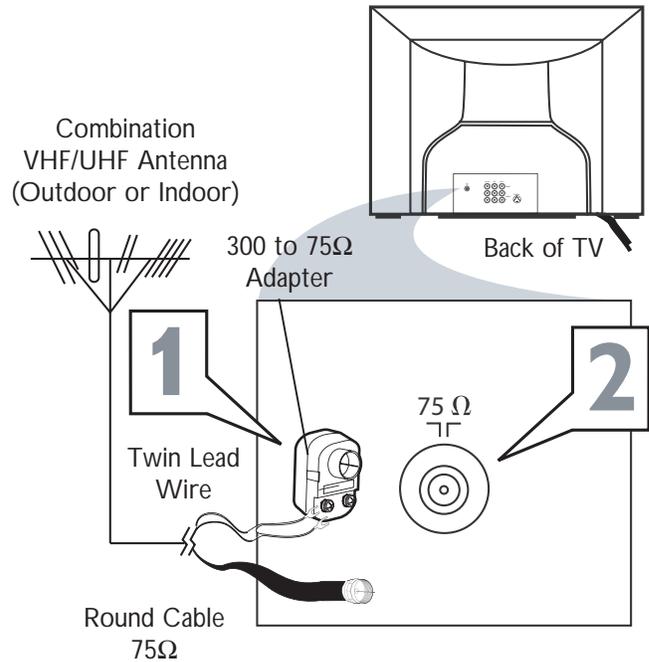
**If your antenna has flat twin lead wire** (300 ohm), you first need to switch the antenna wires to the screws of a 75 ohm adapter.

**If you have a Cable Converter Box :** Connect the Cable TV signal to the Cable Signal IN(put) plug on the Converter.
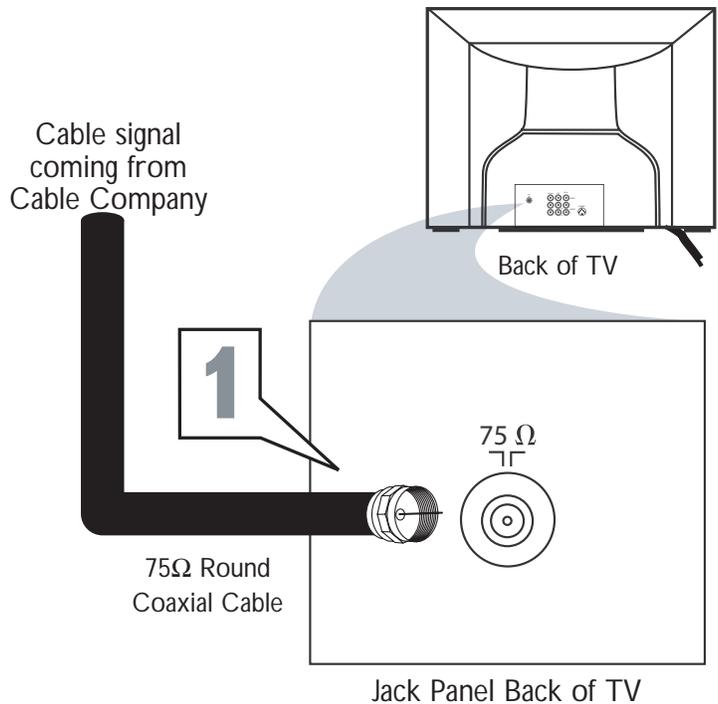
**2** Connect the Cable TV cable or Antenna cable (or 300 to 75 ohm adapter) to the 75Ω plug on the TV.
 If you have a Cable Converter Box : Connect the OUT (put) plug from the Converter to the 75Ω plug on the TV.

Combination VHF/UHF Antenna (Outdoor or Indoor)

300 to 75Ω Adapter

Back of TV

Twin Lead Wire

75 Ω

Round Cable 75Ω

## Direct Cable Connection

Cable signal coming from Cable Company

Back of TV

75 Ω

75Ω Round Coaxial Cable

Jack Panel Back of TV

# BASIC TV AND REMOTE CONTROL OPERATION

**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.

**Pressing both buttons at the same time** will display the on-screen menu. Once in the menu, use these buttons to make adjustments or selections.

**3**   **Press the CHANNEL UP + or DOWN -** button to select TV channels.

**4**   **Point the remote control** toward the remote sensor window on the TV when operating the TV with the remote.
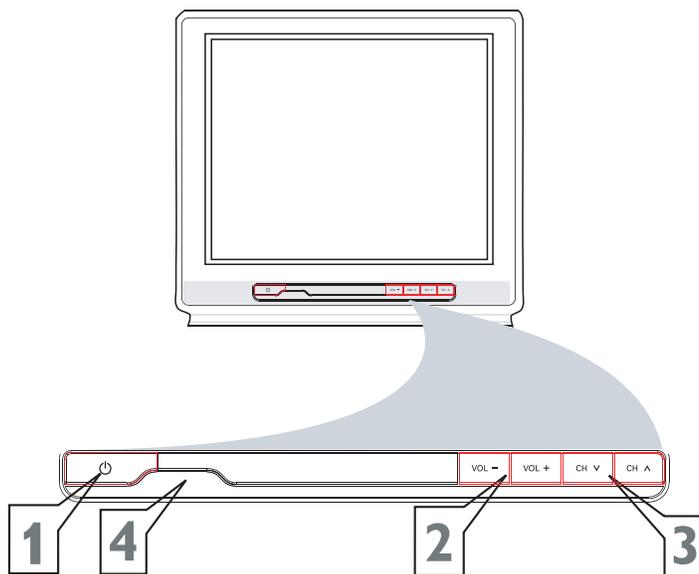
## REMOTE CONTROL

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

**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.

**Back of Remote Control**

Back of Remote

Battery Compartment

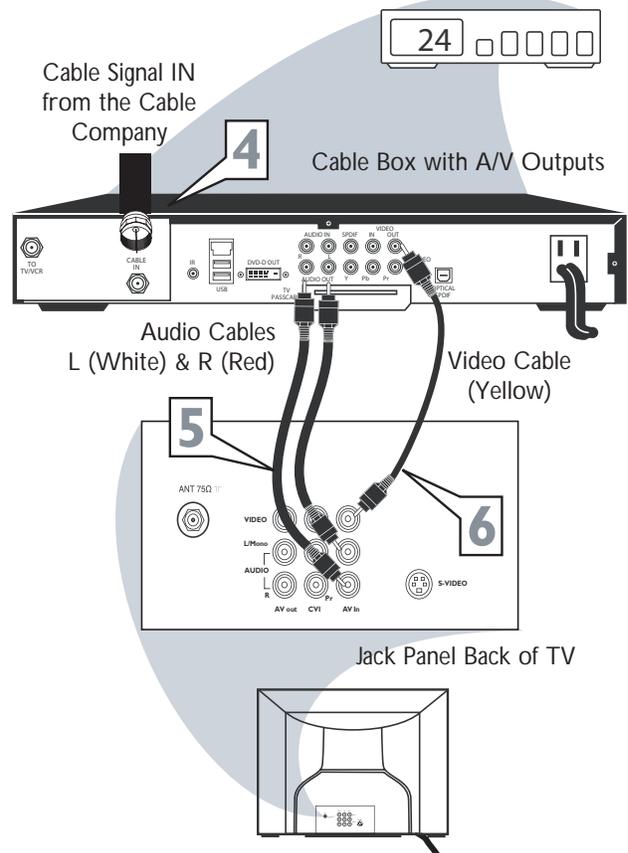2 AA-sized batteries

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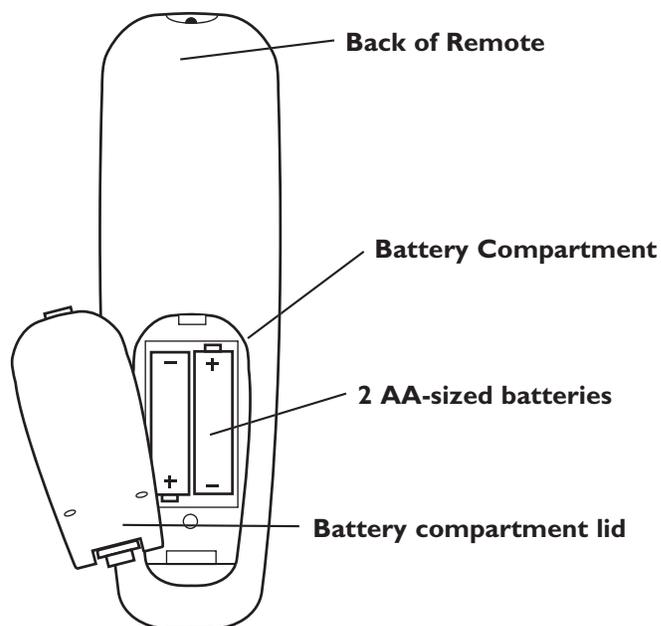
*I*f your cable signal uses a cable box or decoder, follow the steps below to complete the connection.

*Cable Box (w/Audio/Video Outputs) :*

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

**2** Using a RCA type Video Cable, **connect one end of the cable to the Video** (or ANT, your cable box may be labeled differently) **Out jack** on the cable box and the other end to the AVI Video Input on the TV.

**3** **Connect one end** of the Audio Left and Right Cable **to the left and right Audio Out L & R jacks on the cable box**. Connect the other end to the AV In Audio L & R Input jacks on the TV.

**NOTE :** Use the **AV** button on the TV remote control to tune to the **AV** channel or the cable box signal. Once tuned, change channels at the cable box, not the television.
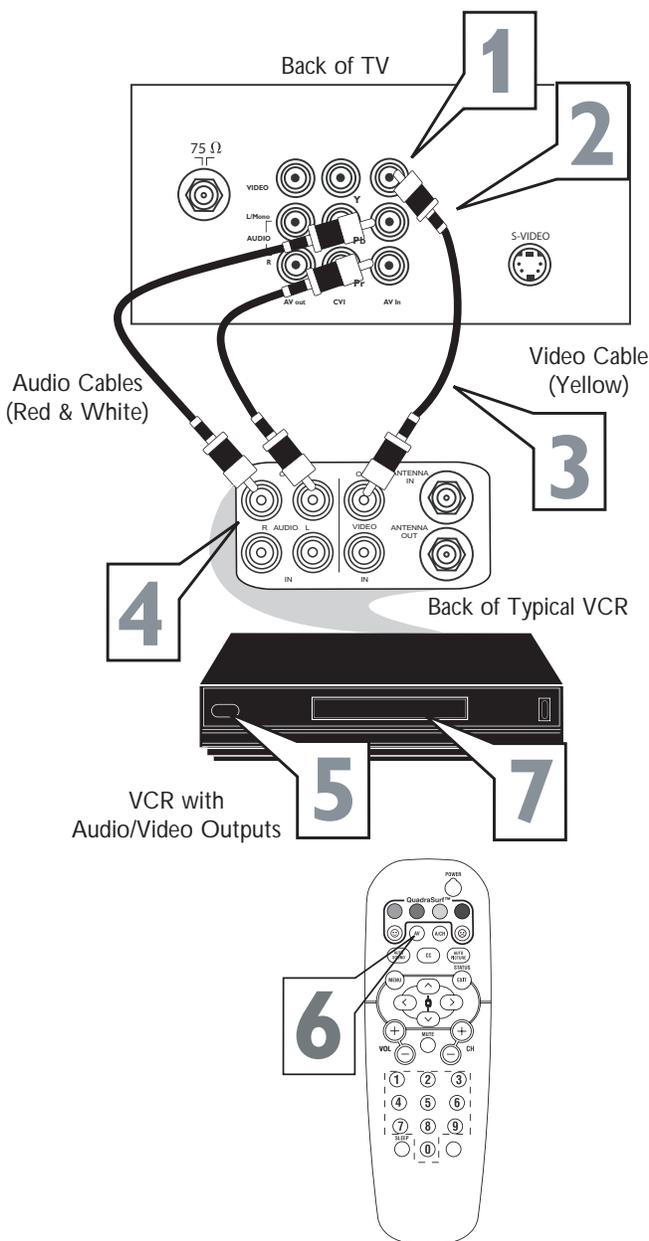
Cable Box (w/Audio/Video Outputs):

Cable Signal IN from the Cable Company

Cable Box with A/V Outputs

Audio Cables L (White) & R (Red)

Video Cable (Yellow)

Jack Panel Back of TV

# AV (AUDIO/VIDEO) INPUT CONNECTION

*T*he TV's audio/video input jacks are for direct picture and sound connections between TV and a VCR (or similar device) that has audio/video output jacks.  Follow steps below to connect an accessory device to the AV In Input Jacks located at the back of the TV.

**1** **Connect the VIDEO (yellow)** cable to the VIDEO AV In jack on the back of the TV.

**2** **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) AV In jacks on the rear of the TV.

**3** **Connect the VIDEO (yellow) cable** to the VIDEO OUT jack at the back of the VCR.

**4** **Connect the AUDIO (red and white) cables** to the **AUDIO (left and right) OUT** jacks at the rear of the VCR.

**5** **Turn the VCR (accessory device) and the TV on.**

**6** **Press the AV button** on the remote control to select the AV Channel.  AV will appear on the upper left corner of the TV screen.

**7** With the VCR (or accessory device) ON and a prerecorded tape (CD, DVD, etc.) inserted, **press the PLAY ▶ button** to view the tape on the television.



Back of TV

Video Cable
(Yellow)

Audio Cables
(Red & White)

Back of Typical VCR

VCR with
Audio/Video Outputs

8

# SIDE AV CONNECTIONS

*A*udio and Video side inputs are available for a quick connection of a VCR, Video camera, gaming device.  Use the **CH+** or **CH-** 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 SIDE (or FRONT) of the TV.

**2** **For Stereo Devices:** Connect the audio cable (red and white) from the Audio Left and Right Outputs on the Camera to the Audio In (white) jack on the SIDE (or FRONT)of the television.

**For Mono Devices:** Connect one end of the audio cable from the Audio Out jack on the device to the Audio In (white) jack on the SIDE of the television.

**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 side input jacks. "AV" will appear on the TV screen.

**5** **Press the PLAY ▶ button** on the accessory device to view playback, or to access the accessory device (camera, gaming unit, etc.).

### Side AV Inputs:

Side Jack panel of TV

Audio Cables

Video Cable

Optional Headphones

Jack Panel of Accessory Device
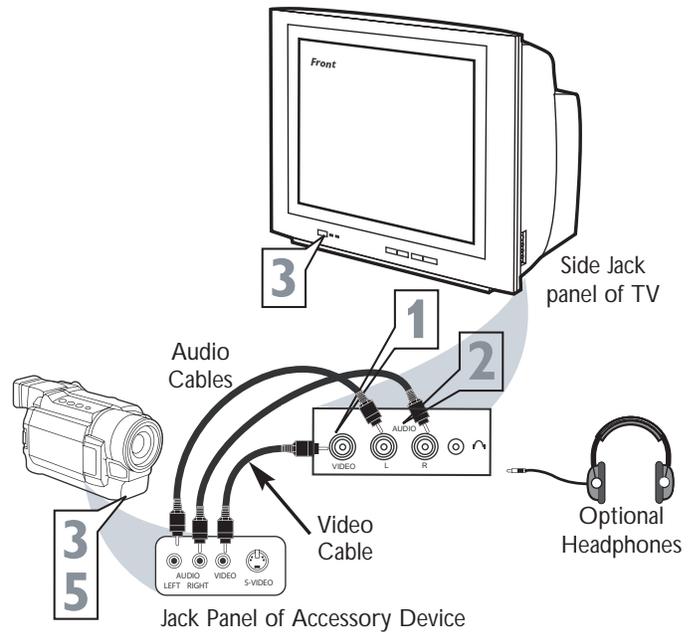
# S-VIDEO (S-VHS) INPUT CONNECTIONS

*T*he S(uper)-Video connection on the rear of the TV can provide you with better picture detail and clarity for the playback of accessory sources such as DBS (Digital Broadcast Satellite), DVD (Digital Video Disc), video games and S-VHS VCR (video cassette recorder) tapes than the normal antenna picture connections.

**NOTE :** The accessory device must have an S-VIDEO OUT(put) jack in order for you to complete the connection on this page.
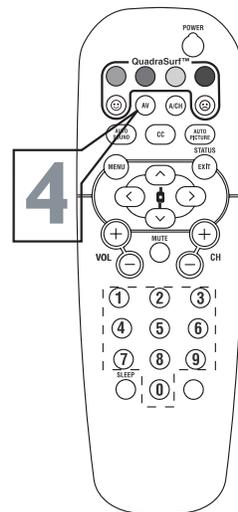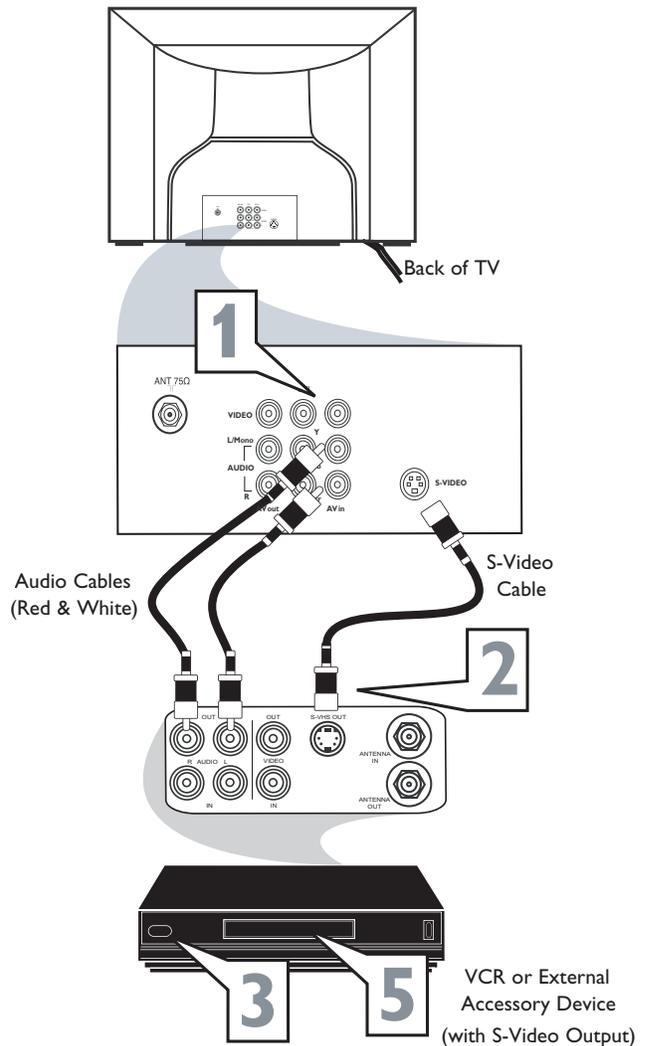
**1** Connect one end of the **S-VIDEO CABLE** to the S-VIDEO jack to the back of the TV. Connect one end of the Audio (red and white) CABLES to the AV In AUDIO L and R (left and right) jacks on the rear of the TV.

**2** Connect the other end of the **S-VIDEO CABLE** to the S-VHS (S-Video) OUT jack on the back of the VCR. Connect the other end of the AUDIO (red and white) CABLES to the AUDIO (left and right) OUT jacks on the rear of the VCR.

**3** Turn the VCR and TV on.

**4** **Press the AV buttons** on the remote control to scroll the channels until SVHS appears in the upper left corner of the TV screen.
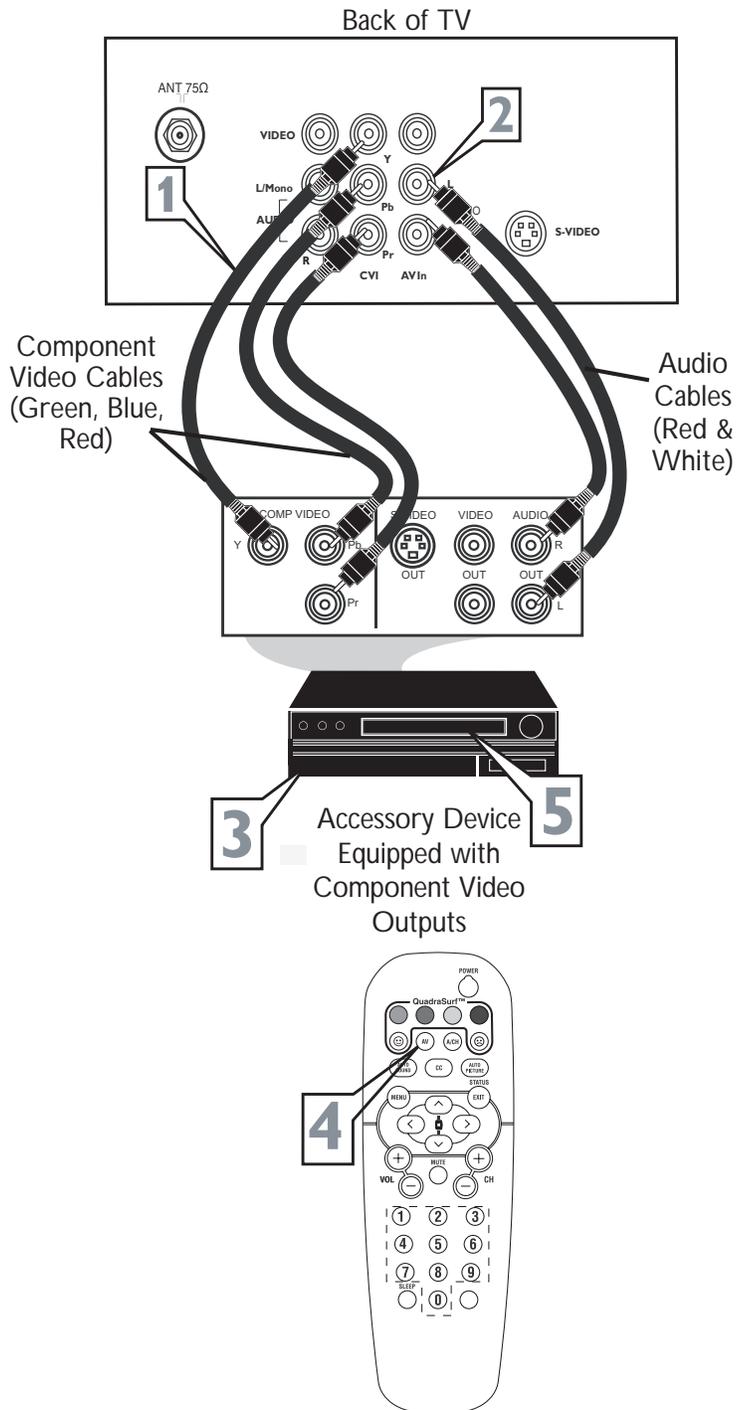
**5** Now you are ready to place a pre-recorded video tape in the VCR and **press the PLAY**
▶ **button**

Back of TV

Audio Cables
(Red & White)

S-Video
Cable

VCR or External
Accessory Device
(with S-Video Output)

# COMPONENT VIDEO (CVI) INPUT CONNECTIONS

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

**1** **Connect the Component (Y, Pb, Pr) Video OUT** jacks from the DVD player (or similar device) to the (Y, Pb, Pr) in(put) jack on the TV.  When using the Component Video Inputs, it is best not to connect a signal to the AV in Video Jack.

**2** **Connect the red and white AUDIO CABLES** to the Audio (left and right) output jacks on the rear of the accessory device to the Audio (L and R) AV Input Jacks on the TV.

**3** **Turn the TV and the DVD (or digital accessory device) ON.**

**4** **Press the AV button** on the remote control to scroll the channels until CVI appears in the upper left corner of the TV screen.

**5** Insert a DVD disc into the DVD player and press the PLAY  ▶ button on the DVD Player.

Back of TV

Component Video Cables (Green, Blue, Red)

Audio Cables (Red & White)

Accessory Device Equipped with Component Video Outputs

## HELPFUL HINTS

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

# AV OUTPUT CONNECTIONS

*T*he Audio/Video Output jacks are great for recording with a VCR or used to connect to external audio system for better sound reproduction.

## AUDIO SYSTEM CONNECTION :

**1** **Connect one end of the R(ight) and L(eft) AUDIO** jacks on the TV to the R and L audio input jacks on your amplifier or sound system. Set the audio system's volume to a normal listening level.

**2** **Turn the TV and audio system on.** To adjust the volume of the audio system, you will need to change the volume at the external audio system**, *not the television*.**
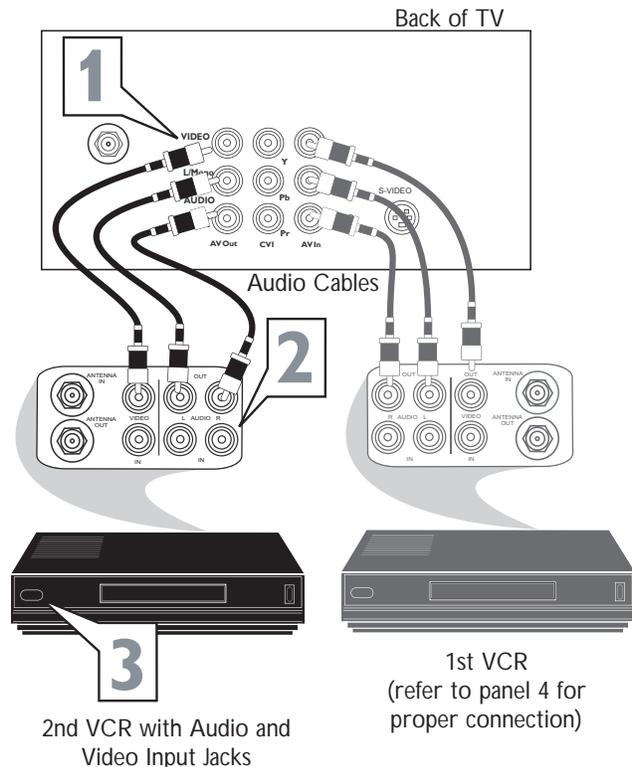
## AUDIO SYSTEM CONNECTION :
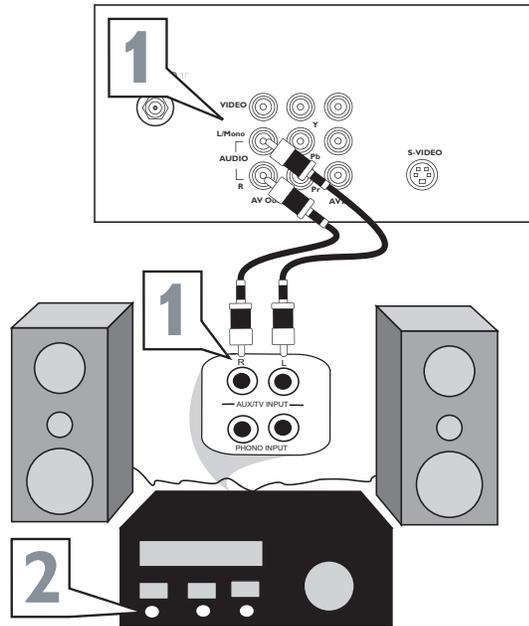


## SECOND VCR CONNECTION :

**NOTE :** Refer to page 8 for the proper hookup of the first VCR. Follow the instructions on how to tune to the AV1 channel to view a pre-recorded tape.

The following steps allow you to connect a second VCR to record the program while watching it.

**1** **Connect on end of the yellow Video Cable to the AV Out Video plug. Connect the other end to the VIDEO IN plug on the second VCR.**

**2** **Connect one end of the red and white Audio cable** from the **AV Out AUDIO L** and **R** plugs on the TV to the **AUDIO IN** plugs on the VCR.

**3** **Turn the Second VCR ON**, insert a VHS tape and its ready to record what's being viewed on the TV screen.

## SECOND VCR CONNECTION :



Back of TV

Audio Cables

2nd VCR with Audio and
Video Input Jacks

1st VCR
(refer to panel 4 for
proper connection)

**AV** Button - Press to select an accessory signal input from the side AV Inputs

**SMILEY** Buttons - Press to add channels to the "QuadraSurf" list. Works with all the 4 colored buttons

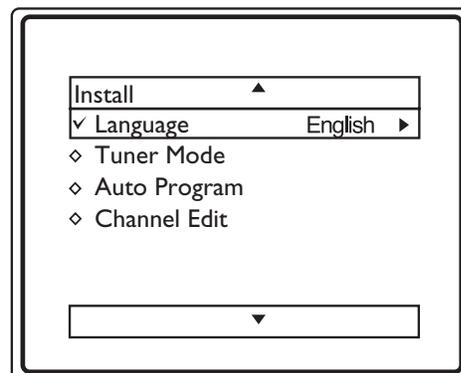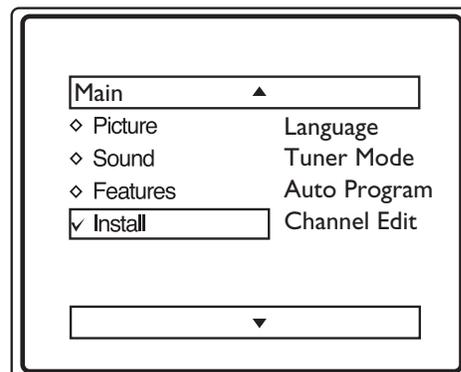**AUTO SOUND** Button - To choose from four pre-defined sound settings. (Personal, Theatre, Music, or Voice).

**CC** Button - Press to activate the Closed Captioning Options. Press repeatedly to scroll through all available CC options.

**MENU** Button - To display the main menu.

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

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

**MUTE** Button - To turn off the sound from the TV."MUTE" will appear on the TV screen. Press again to restore sound to its previous level.

**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.

POWER

QuadraSurf™

AV    A/CH

AUTO SOUND    CC    AUTO PICTURE

STATUS

MENU    EXIT

MUTE

VOL    CH

1  2  3
4  5  6
7  8  9
SLEEP    0

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

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

**QUADRASURF** Buttons - Red, Green, Yellow, Blue) allows you to store and surf up to 10 channels you choose for each colored button.

**FROWNIE** Buttons - Allows you to skip channels from the "Quadra Surf" list from the colored buttons.

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

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

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

**NUMBER (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.
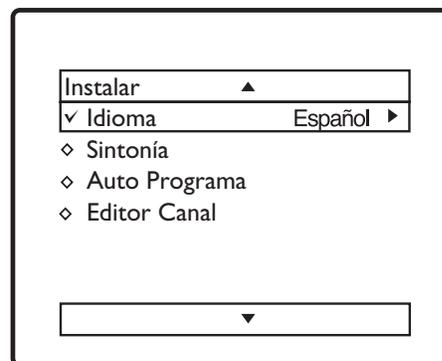
# HOW TO USE THE LANGUAGE CONTROL

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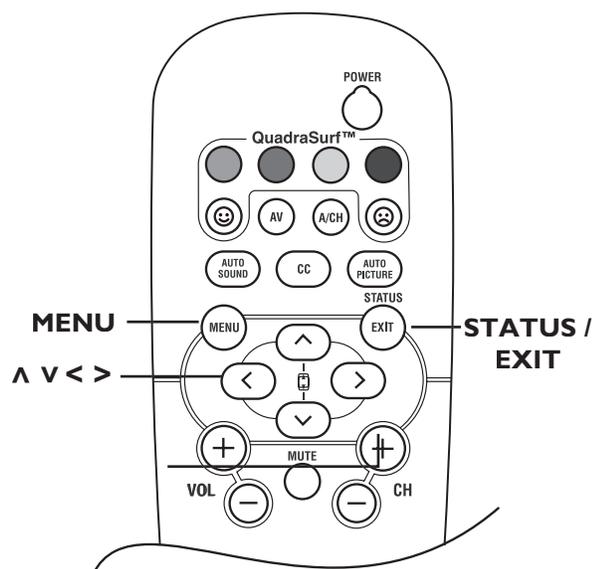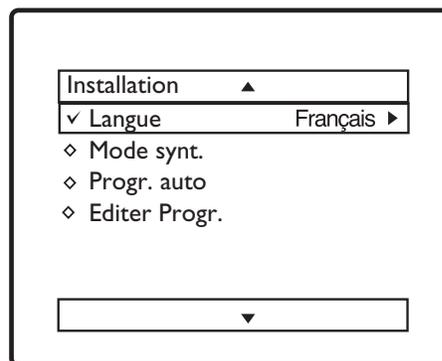
**1** **Press the MENU button** on the remote control to show the on-screen menu.

**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 |
| ◇ Sound | Tuner Mode |
| ◇ Features | Auto Program |
| ✓ Install | Channel Edit |
| ▼ | |

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

OR

| Instalar ▲ | |
|---|---|
| ✓ Idioma | Español ▶ |
| ◇ Sintonía | |
| ◇ Auto Programa | |
| ◇ Editor Canal | |
| ▼ | |

OR

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

POWER

QuadraSurf™

AV  A/CH

AUTO SOUND   CC   AUTO PICTURE

STATUS

**MENU** — MENU  ∧  EXIT — **STATUS / EXIT**

**∧ ∨ < >** — < ▣ >
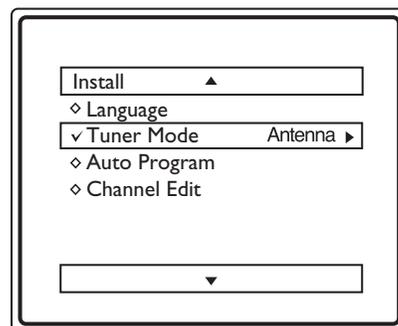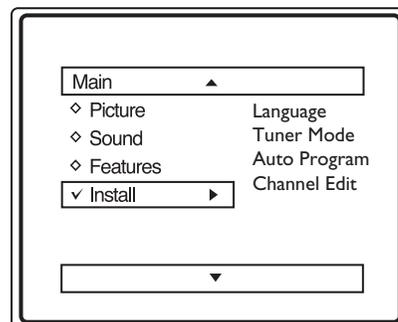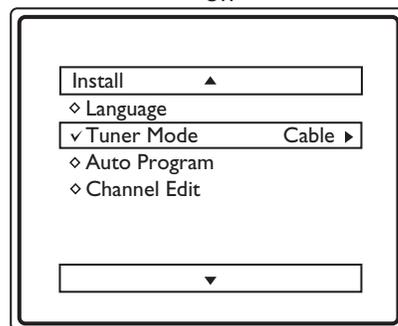
∨

MUTE

VOL — + —   + — CH

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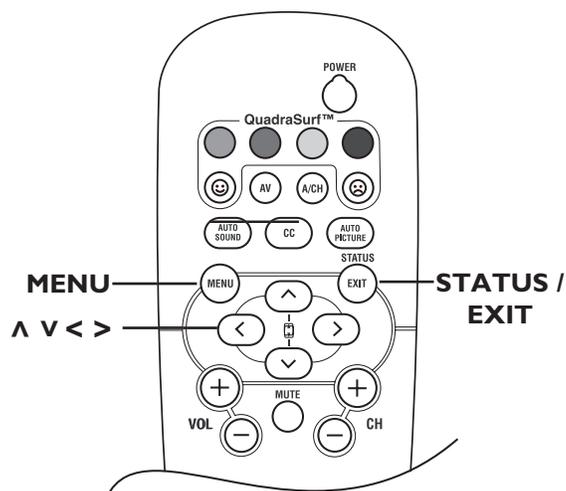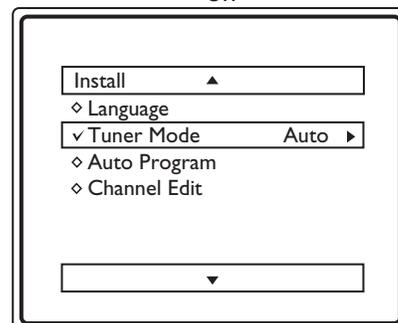
**1** **Press the MENU button** on the remote control to show the on-screen menu.

**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 |
| ◇ Sound | | Tuner Mode |
| ◇ Features | | Auto Program |
| ✓ Install | ▶ | 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 | |
| | ▼ |

**MENU** ─── MENU

**∧ ∨ < >** ───

STATUS / EXIT **STATUS / EXIT**

POWER

QuadraSurf™

AV  A/CH

AUTO SOUND  CC  AUTO PICTURE

VOL  MUTE  CH

### *HELPFUL HINTS*

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

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

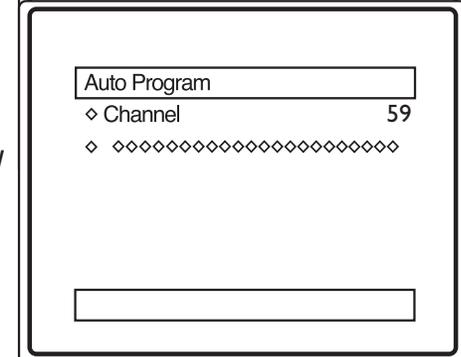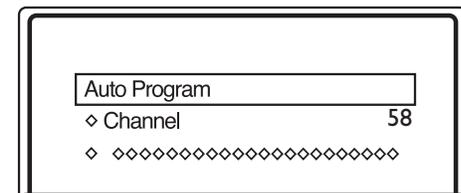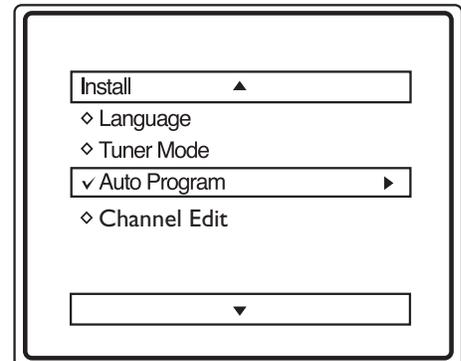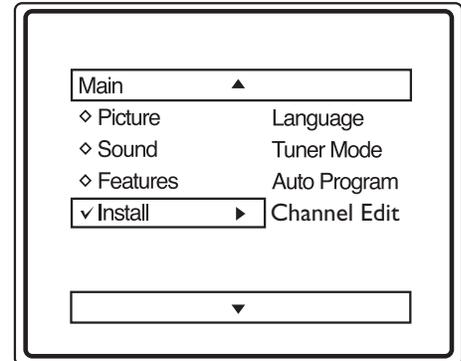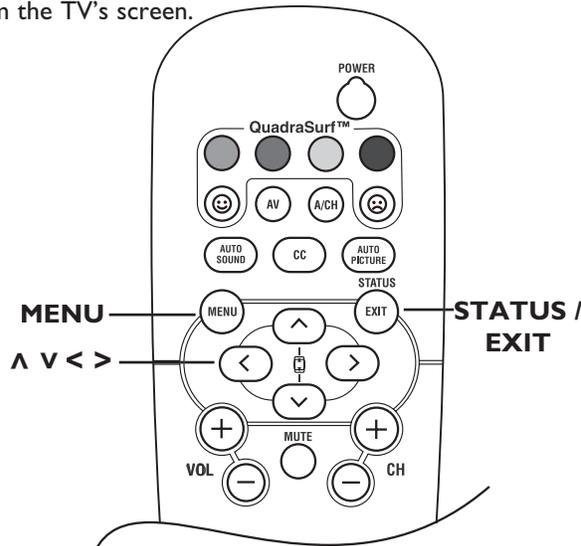When AUTO is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects when the AUTO PROGRAM feature is activated.

# AUTO 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 **TUNER MODE** is highlighted.

**5** Press **CURSOR >** to start the Auto Program scanning of channels. Auto Programming 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.

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

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

| Auto Program |
| --- |
| ◇ Channel                     58 |
| ◇ ◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇◇ |

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

POWER

QuadraSurf™

AV    A/CH

AUTO SOUND    CC    AUTO PICTURE

STATUS

**MENU** —— MENU    EXIT —— **STATUS / EXIT**

**∧ ∨ < >** —— ∧ ∨ < >

MUTE

VOL    CH

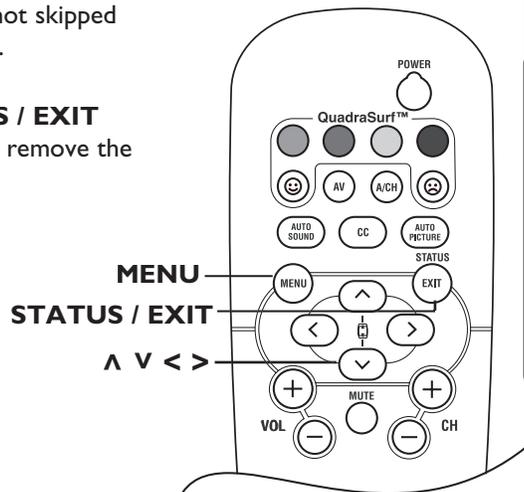| *HELPFUL HINTS* |
| --- |
| When CABLE is selected, channels 1 - 125 are available. |
| When ANTENNA is selected, channels 2 - 69 are available. |
| When AUTO is selected, the TV will automatically set itself to the correct mode based on the type of signal it detects when the AUTO PROGRAM feature is activated. |

C hannel 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.
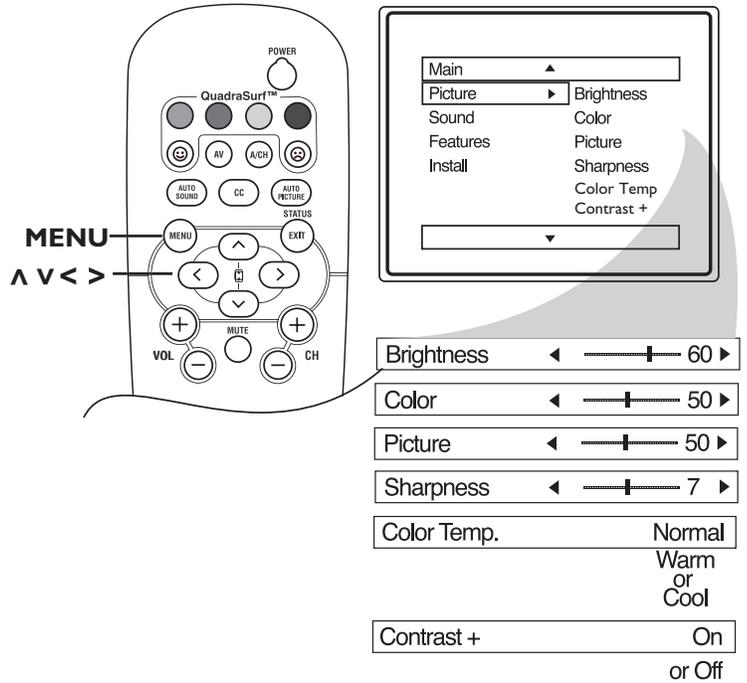
---
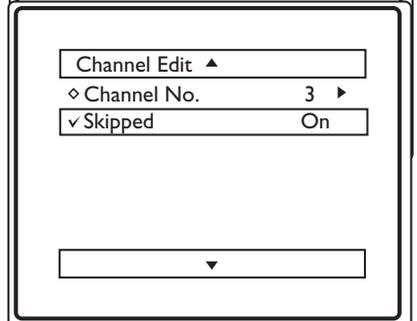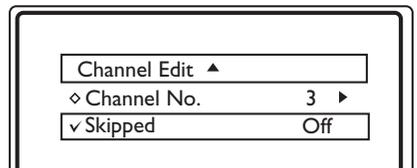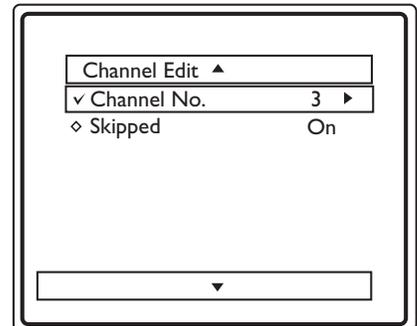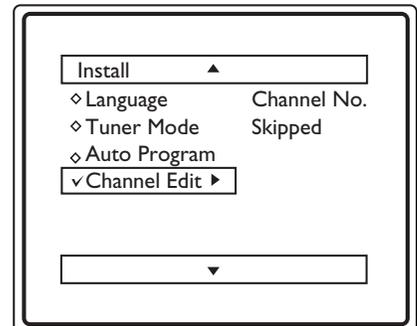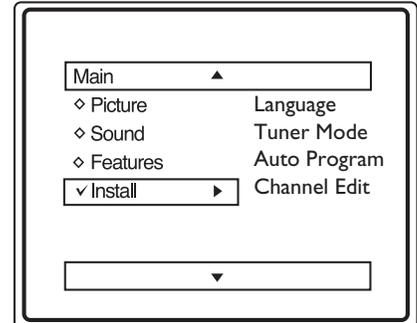
*HELPFUL HINTS*

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.

---

| Main ▲ | |
|---|---|
| ◇ Picture | Language |
| ◇ Sound | Tuner Mode |
| ◇ Features | Auto Program |
| ∨ Install ▶ | 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 |
| ▼ | |

POWER

QuadraSurf™

AV    A/CH

AUTO SOUND    CC    AUTO PICTURE

STATUS

**MENU** — MENU    EXIT

**STATUS / EXIT** —

∧

**∧ V < >** — <    >

V

VOL + MUTE +

VOL —    CH —

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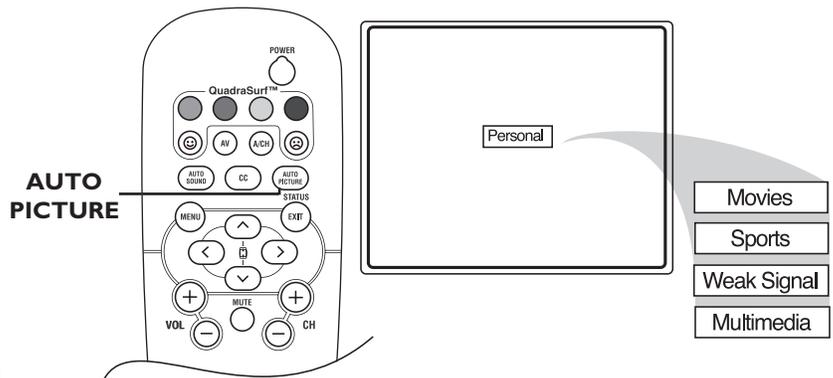
**1**    **Press the MENU** button on the remote control to display the onscreen menu.

**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.

*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 |
| Sound | | Color |
| Features | | Picture |
| Install | | Sharpness |
| | | Color Temp |
| | | Contrast + |
| | ▼ | |

| | | |
|---|---|---|
| Brightness | ◀ ━━━━┃━ 60 ▶ | |
| Color | ◀ ━━━┃━━ 50 ▶ | |
| Picture | ◀ ━━━┃━━ 50 ▶ | |
| Sharpness | ◀ ━━━┃━━ 7 ▶ | |
| Color Temp. | Normal | |
| | Warm or Cool | |
| Contrast + | On | |
| | or Off | |

---

# AUTO 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 **AUTO PICTURE** button on the remote control. The current Smart Picture setting will display on the screen.

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

**AUTO PICTURE**

Personal

Movies

Sports

Weak Signal

Multimedia

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

# SOUND MENU CONTROLS

*T*o adjust your TV sound controls, select a channel and use the Sound 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 **Sound menu** feature is highlighted.

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

*Treble* - The control will enhance the high frequency sounds.

*Bass* - The control will enhance the low frequency sounds.

*Balance* - 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.

*INCR. SURROUND* - Select **Incr. Surround** or **Stereo** settings if you're in **Stereo mode**. Select **Mono** or **Spatial** if you're in Mono mode.

*Ultra Bass* - Toggles Ultra Bass On or Off. When On, low frequency sound will be enhanced.

*Sound* - Toggles between **Stereo** or **Mono** settings.

*Note: If Stereo is not present on a selected show and the TV is in Stereo mode, the sound coming from the TV will remain in the Mono mode.*

**MENU**

∧ ∨ < >

| Main | ▲ |
|---|---|
| ◇ Picture | Treble |
| ✓ Sound ▶ | Bass |
| ◇ Features | Balance |
| ◇ Install | AVL |
|  | Incr. Surround |
|  | More ... |
| ▼ |  |

✓ Treble        ◀ ——┼—— 50 ▶

✓ Bass        ◀ ——┼—— 50 ▶

✓ Balance      ◀ L ——┼—— R ▶

✓ AVL                On
                    or Of

✓ Incr. Surround          Spatial
                    or Mono

**or**

✓ Incr. Surround      Incr. Surround
                    or Stere

✓ Ultra Bass            On
                    or Of

✓ Sound              Mono
                    or Stereo
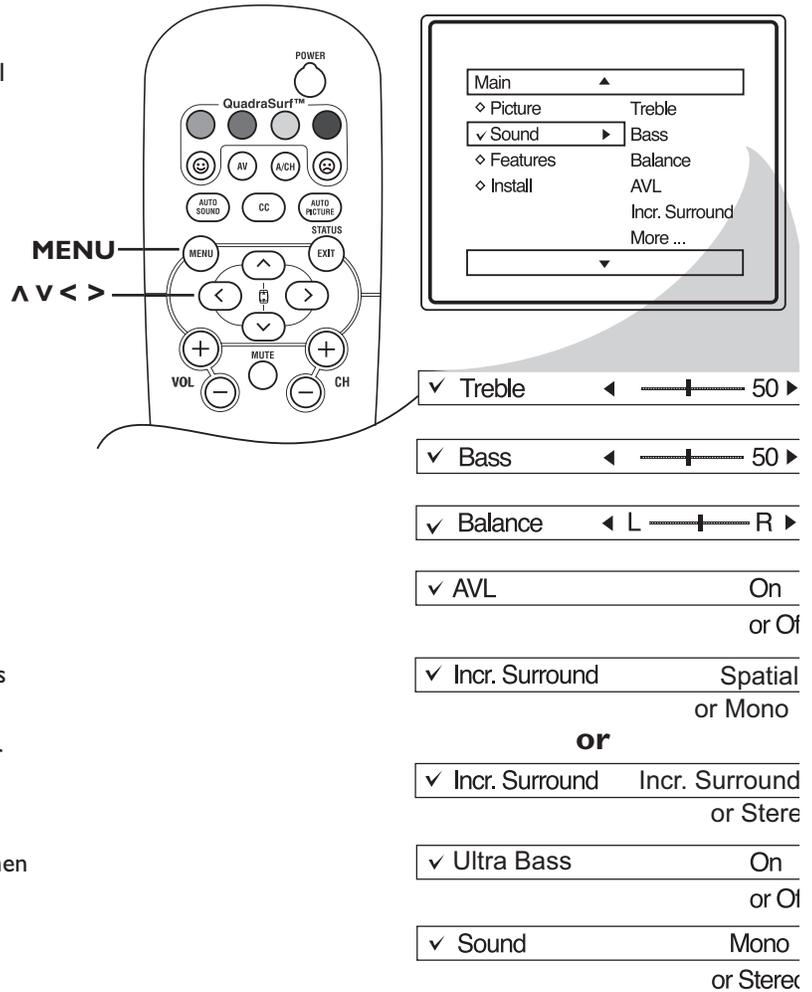
# AUTO SOUND

*T*he Auto Sound feature allows the listener to select between four different pre-set sound options.

**1** Press **AUTO SOUND** button on the remote control. The current **Smart Sound** setting will be displayed in the middle of the TV screen.

**2** Press **AUTO SOUND** repeatedly to toggle between the four settings. (**Personal, Voice, Music, or Theatre**).

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

**AUTO SOUND**

Personal
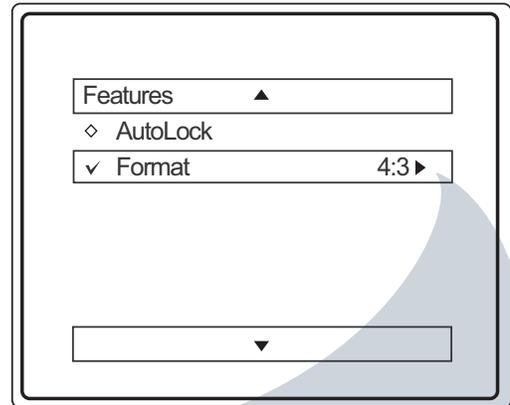
Voice

Music

Theatre
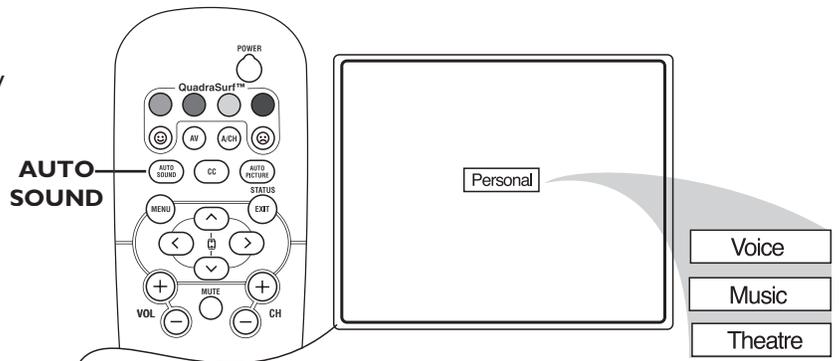
# THE 4:3 EXPAND FORMAT CONTROL

**M**any 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 (AutoLock 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**.

| Features | ▲ |
|---|---|
| ◇  AutoLock | |
| ✓  Format | 4:3 ▶ |
| | ▼ |

✓ Format          4:3 Expand

4:3                    Expand 4:3

POWER

QuadraSurf™

AV    A/CH

AUTO SOUND    CC    AUTO PICTURE    STATUS / EXIT

STATUS

MENU    EXIT

∧ ∨ < >

VOL    MUTE    CH
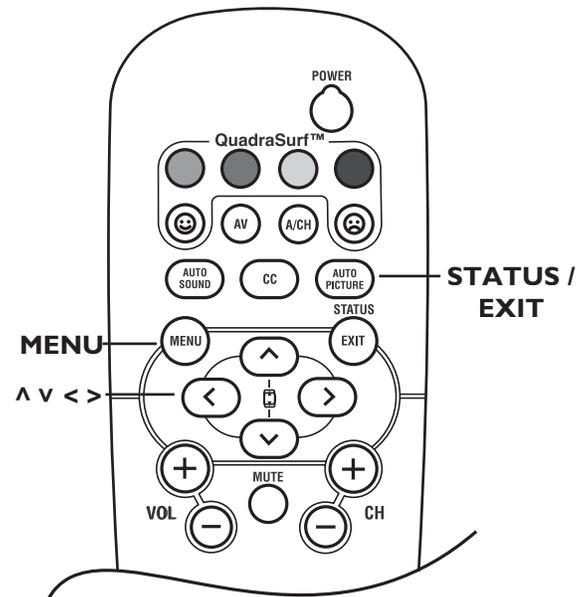
# UNDERSTANDING AUTOLOCK CONTROLS

AutoLock 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 AutoLock 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.

AutoLock 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.

**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 21.

Let's start by learning how to set a personal access code :

**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 (AutoLock or Format).

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

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

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

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

**7** The screen will ask you to enter a "New Code". **Enter a "new" 4 digit code using the NUMBERED 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 AutoLock menu options.
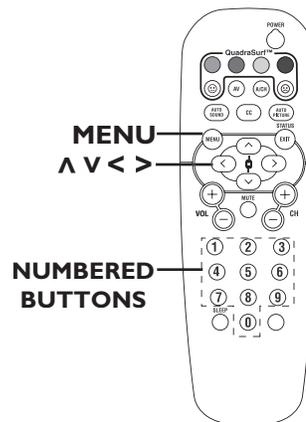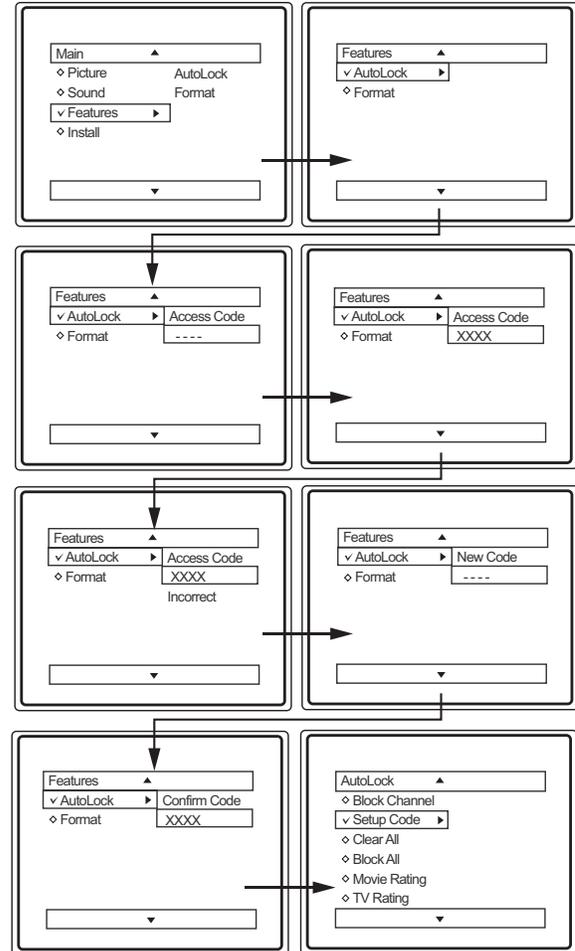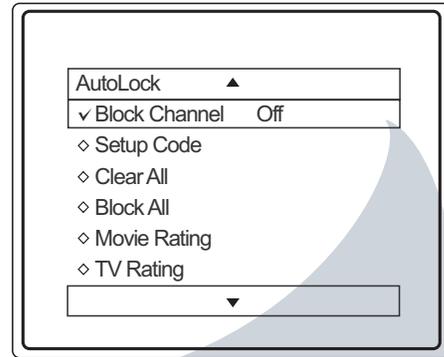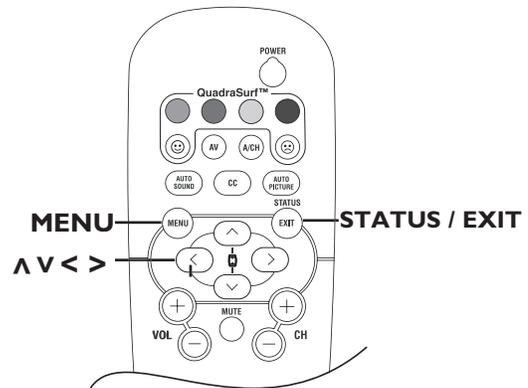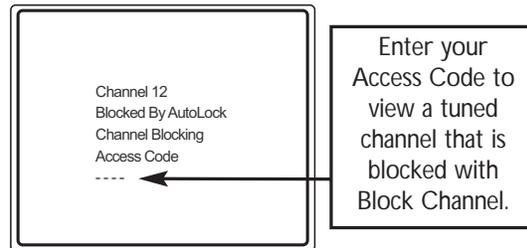
Proceed to the next page to learn more....

# BLOCK CHANNELS

**A**fter your personal access code has been sent (see previous page), you are ready to select the channels or the A/V inputs you want to block out or censor. Once you've entered your access code and the AutoLock 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 AutoLock and you have to Enter your Access Code to unblock the channel.

**5** Use the NUMBER Buttons, key in your Access Code. The Blocked channel will be UnBlocked.

**6** 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.

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

✓ Block Channel    On

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

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

**MENU** — STATUS — **STATUS / EXIT**

**∧ V < >**

# BLOCK/CLEAR ALL CHANNELS AT THE SAME TIME

*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.

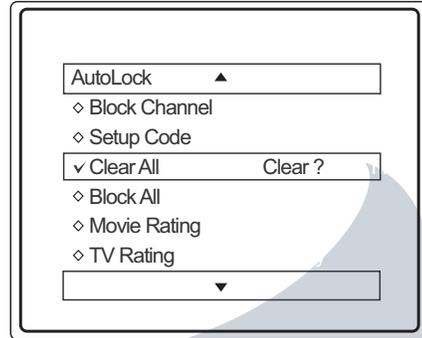Once you've entered your access code and the AutoLock features displayed on the screen;

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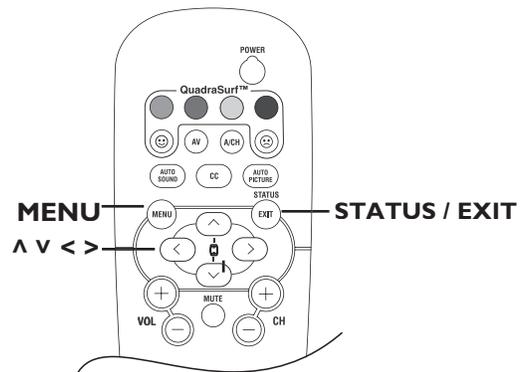
**NOTE :** If you forget your code, key **0 7 1 1**. This is the factory default. Enter this code to create a new access code.

| AutoLock | ▲ |
|---|---|
| ◇ Block Channel | |
| ◇ Setup Code | |
| ✓ Clear All | Clear ? |
| ◇ Block All | |
| ◇ Movie Rating | |
| ◇ TV Rating | |
| | ▼ |

✓ Clear All                Cleared

| AutoLock | ▲ |
|---|---|
| ◇ Block Channel | |
| ◇ Setup Code | |
| ◇ Clear All | |
| ✓ Block All | Off |
| ◇ Movie Rating | |
| ◇ TV Rating | |
| | ▼ |

✓ Block All                On

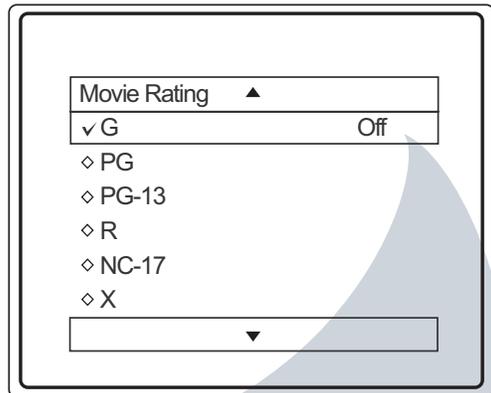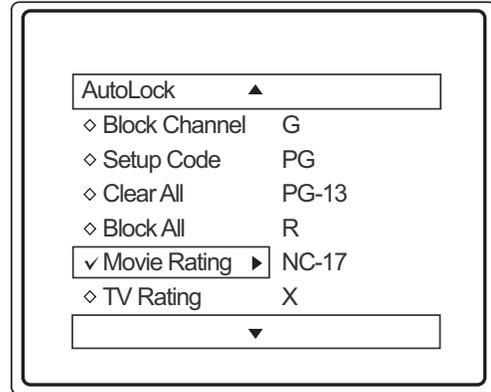**MENU** — **STATUS / EXIT**

**∧ ∨ < >**
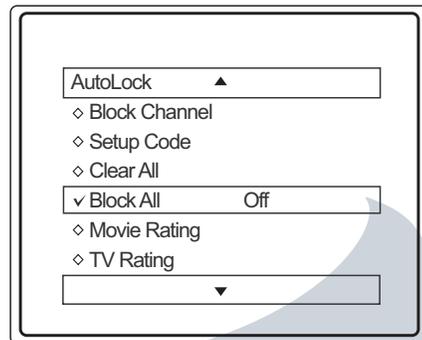
# MOVIE  RATINGS

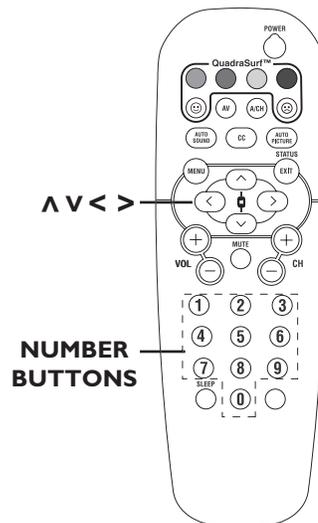*T*he AutoLock feature can block programs based on the Move Industry ratings.

Once you've entered your access code and the AutoLock features are 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*).
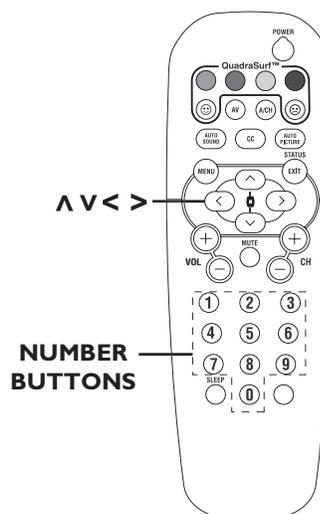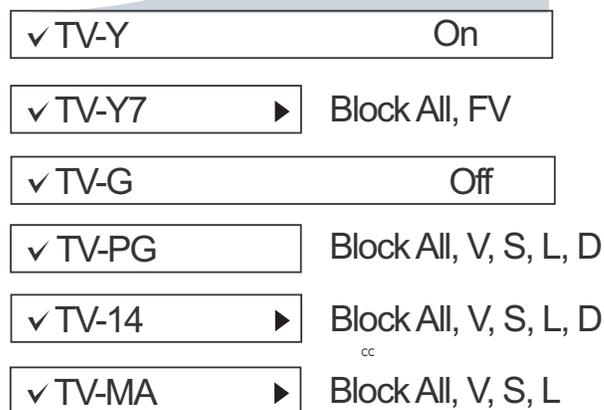
**4**     Use **CURSOR** > to turn the rating option **ON** or **OFF**.

**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.

| AutoLock ▲ | |
|---|---|
| ◇ 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 |
|---|---|

∧ ∨ < >

NUMBER BUTTONS

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

Once you've entered your access code and the AutoLock 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*).
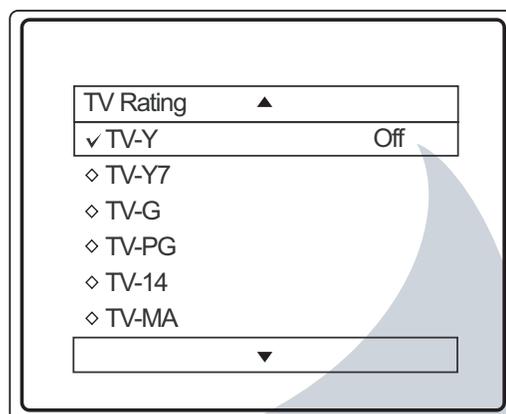
**NOTE :** Some TV Rating options also have sub-ratings. The ratings of TV-Y7, TV-G, TV-14, TV-MA can be customized to block V (violence), FV (fantasy violence), S (sex scenes), L (coarse language), or D (Suggestive dialogue).

**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.
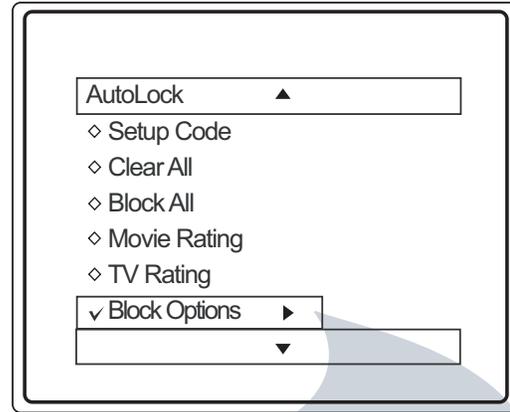
| TV Rating | ▲ |
|---|---|
| ✔ TV-Y | Off |
| ◇ TV-Y7 | |
| ◇ TV-G | |
| ◇ TV-PG | |
| ◇ TV-14 | |
| ◇ TV-MA | |
| ▼ | |

| | |
|---|---|
| ✔ 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 |

∧ ∨ < >

**NUMBER BUTTONS**

# BLOCKING OPTIONS

**A**utoLock 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 AutoLock features are 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 AutoLock. 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 locked 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 <.

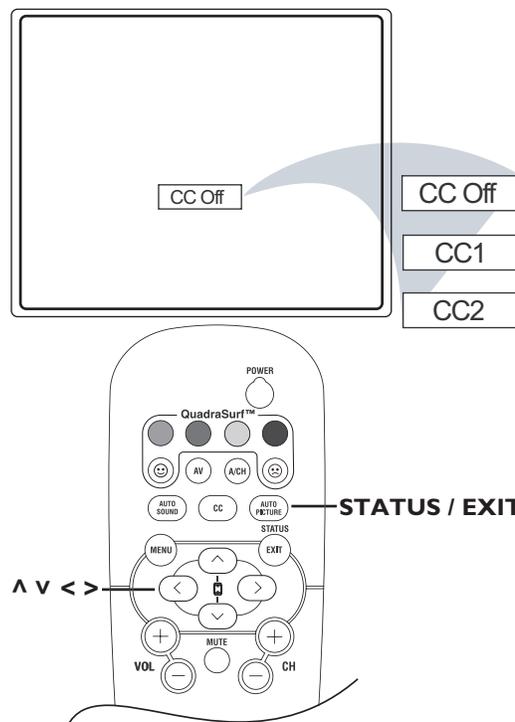**NOTE :** If you forget your code, key 0 7 1 1. This is the factory default. Enter this code to create a new access code.

AutoLock                    ▲
◇ Setup Code
◇ Clear All
◇ Block All
◇ Movie Rating
◇ TV Rating
✓ Block Options        ▶
                            ▼

✓ Blocking              On

✓ Unrated               On

✓ No Rating             On

∧ ∨ < >

NUMBER BUTTONS
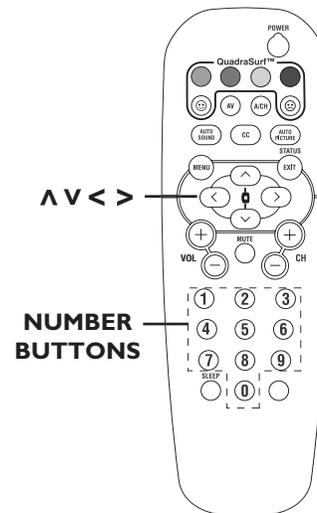
# CLOSE CAPTIONING

*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, 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

POWER

QuadraSurf™

AV   A/CH

AUTO SOUND   CC   AUTO PICTURE — **STATUS / EXIT**

STATUS

MENU   EXIT
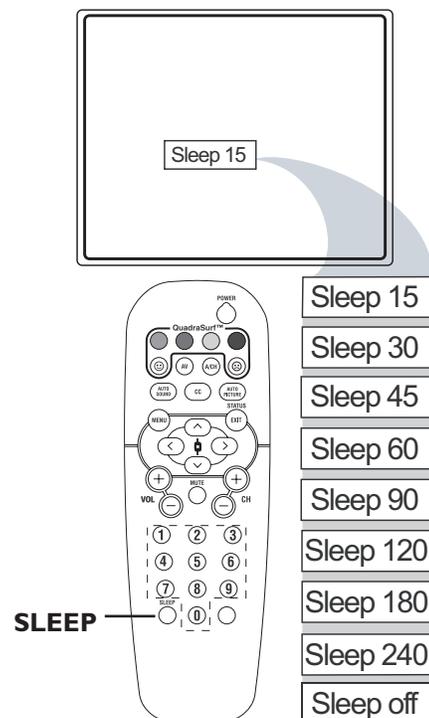
**^ v < >**

VOL   MUTE   CH

## *HELPFUL HINTS*

You will not be able to see Close Captions if the broadcaster does not provide Close Captioning text with the program that is transmitted.

# 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

POWER

QuadraSurf™

AV   A/CH

AUTO SOUND   CC   AUTO PICTURE

STATUS

MENU   EXIT

VOL   MUTE   CH

① ② ③
④ ⑤ ⑥
⑦ ⑧ ⑨
SLEEP
○ ⓪ ○

**SLEEP**

# QUADRASURF

*T*he QuadraSurf control allows you to setup four different personal channel Surf lists using the colored buttons (on the remote control).  Each colored button can hold up to ten channels in its quick viewing list.
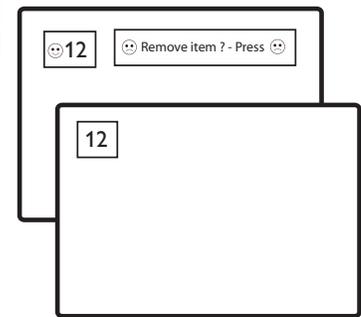
**1** Press **CH+ or CH-** (or the Number buttons) to select a channel to add to the **SURF** list.

**2** Press **SMILEY** 😊 **button** to ADD the channel to one of the SURF list.

**3** Press a **COLORED button (Red, Green, Yellow or BLUE)** to add the channel to that button's Surf list.  You can store up to 10 channels per colored button.

Repeat steps 1 through 3 to add additional channels (up to ten) to each of the SURF list.

---
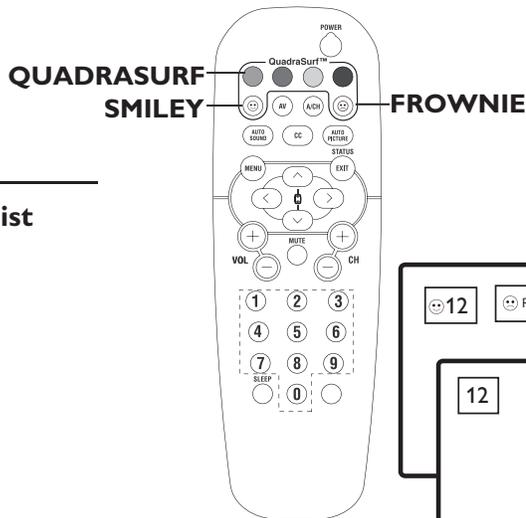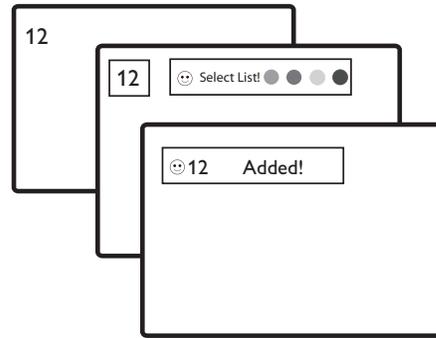
### To remove a channel from one of the SURF list

**4** Press the **COLORED QuadraSurf button** until the desired channel appears.  The screen will display the channel number with a colored "Smiley" face to indicate the Colored button it relates to.

**5** While the colored **SMILEY** 😊 **face** channel indicator is displayed, press the **FROWNIE** 😩 button on the remote control.   The screen will read "Remove item ? - Press 😩."

**6** Press the **FROWNIE** 😩 button on the remote control again to confirm.

Repeat steps 4 through 6 to remove other channels from the Surf list.

12

12    😐 Select List! ● ● ● ●

😊 12    Added!

QUADRASURF
SMILEY                    FROWNIE

😊 12    😐 Remove item ? - Press 😐

12

# QUADRASURF

*T*he QuadraSurf buttons on the remote control allow you to store up to **10** channels per button (40 in total). You can program the AV input channels for each button making them a "source" button.

Assuming channels have been added to the four Quadra Surf lists (the four colored buttons, see previous page).

**1** Press one of the pre-programmed **COLORED** buttons on the remote control (Red, Green, Yellow or Blue). The screen will display a **SMILEY** 😊 with the first programmed channel for that surf list.
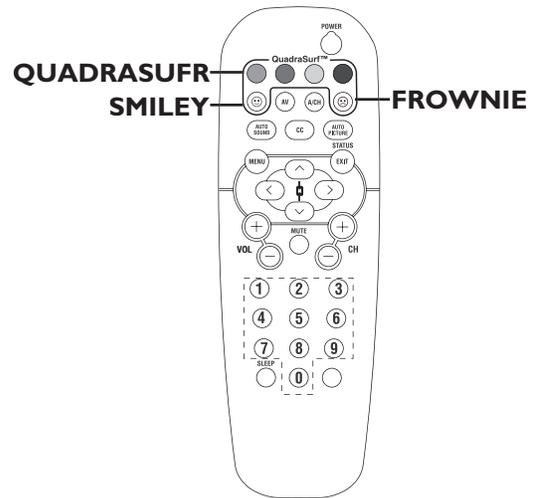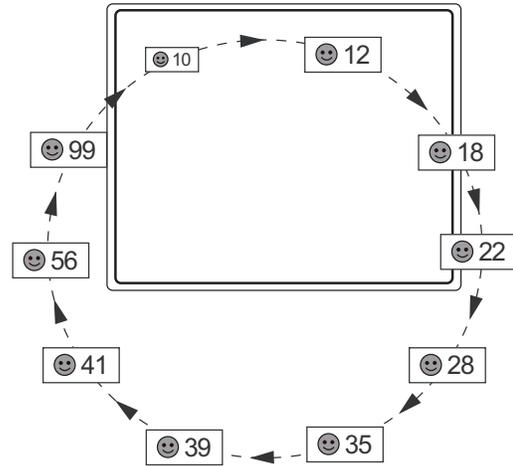
**2** While the colored **SMILEY** 😊 STILL appears on the screen, press the same **COLORED** button on the remote control to tune to the second channel programmed for that surf list.

**3** Pressing the same **COLORED** button while the **SMILEY** 😊 appears will tune all the programmed channels. Pressing the **COLORED** button again will return you to the first channel in the list.

After the **SMILEY** 😊 disappears from the screen and the same **COLORED** button is pressed, the surf channels will be displayed starting with the FIRST programmed channel again.

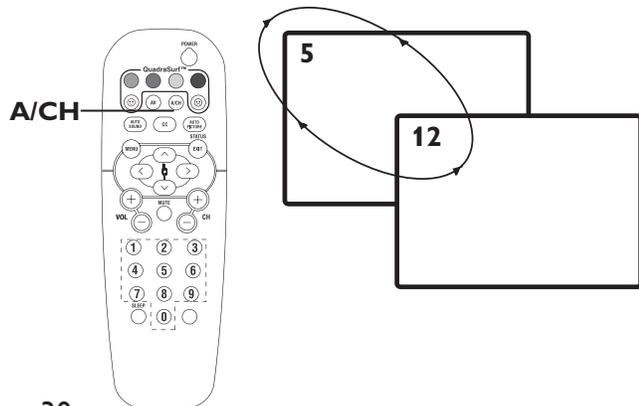**4** Repeat steps 1 - 3 for the other three **COLORED** buttons (Surf list) if desired.

**5** Pressing the **FROWNIE** 😞 button on the remote control while the SMILEY 😊 appears with the channel number will allow you to remove it from the surf list (see previous page for more details).

😊 10 → 😊 12
😊 99          😊 18
😊 56          😊 22
😊 41          😊 28
😊 39 ← 😊 35

**QUADRASUFR** — **SMILEY** — **FROWNIE**

😊 12          😞 Remove Item? - Press 😞

# (ALTERNATING CHANNELS)

*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 Committe (NTSC) TV screens; it stands for four units of width for every three units of height. |
|---|---|
| Aspect Ratio | The ratio between the width and height of the TV picture on the screen. In a normal TV set the aspect ratio is 4 to 3 (4:3). |
| 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. |
| 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. |

# 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.

# 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 15). |
| *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 15). |
| *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. |
| *Sound* | Sound is not in Stereo. | This could be due to any of the following reasons: 1. Not all transmitted broadcasts by the cable or broadcast stations are in STEREO. Try checking with several major network stations to be sure that the station you selected is in STEREO. 2. When SAP is turned ON, the sound mode is automatically set to MONO. 3. Sound mode is set to MONO. Set the sound mode to STEREO. (Refer to page 19). 4. When using an AV input, the television will not display STEREO even though it is producing stereo sound. |
| *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 6. 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 6. 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. |

# SPECIFICATIONS

|  | 20PT6446 |
|---|---|
| **PICTURE / DISPLAY** | |
| Aspect ratio : | 4:3 |
| Picture Display<br>Picture Enhancement | 20" Real Flat Picture,<br>Auto Picture (5 modes)<br><br>Color, Contrast, Sharpness Control |
| *SOUND*<br><br>Sound Power (Output RMS)<br>Sound Enhancement | <br><br>2 x 3w<br>Incredible Surround |
| *CONVENIENCE* | <br><br>Auto Program<br>Auto Volume Leveller (AVL)<br>Closed Captioning<br>Parental Lock |
| *ON SCREEN DISPLAY LANGUAGES* | English, French, Spanish |
| *CONNECTIVITY*<br>Rear<br><br><br>Side | <br>AV1: CVI, CVBS in<br>AV2: CVBS in, S-Video<br>AV3: Monitor Out<br>CVBS in, Headphone Out |
| *WEIGHT & DIMENSIONS :*<br><br>Weight (incl. Packaging) :<br>Weight (excl. Packaging) :<br><br>Visible diagonal / screen size : | <br><br>24.6 kg / 54.15 lbs<br>21.6 kg / 47.52 lbs<br><br>20 inch / 50.8 cm |

*Specifications and information are subject to change without notice.*

## 90 Days Labor & One (1) Year Parts & Two (2) Years Display

**PHILIPS CONSUMER ELECTRONICS** 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 the product is determined to be defective)

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

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

**DISPLAY:** For a period of two (2) years from the date of purchase, Philips will supply, at no charge, a new or rebuilt active display device in exchange for the defective display. Philips authorized service centers will provide removal and installation of the parts under the specified labor 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 Philips.
- 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 associated with 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 Philips Customer Care Center at:
     1-888-PHILIPS (1-888-744-5477)

**TO OBTAIN WARRANTY SERVICE IN CANADA...**
     1-800-661-6162 (French Speaking)
     1-888-PHILIPS (1-888-744-5477) - (English or Spanish Speaking)

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER. PHILIPS 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 PHILIPS 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.*

**Philips, P.O. Box 671539, Marietta, GA. 30006-0026**

(Warranty: 4835 710 27400)

# INDEX

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