

User Manual



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

Read your User 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
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*or
call 1-800-531-0039
while with your product.*

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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.

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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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*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



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.

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

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

For Customer Use

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

Model No. _____

Serial No. _____




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

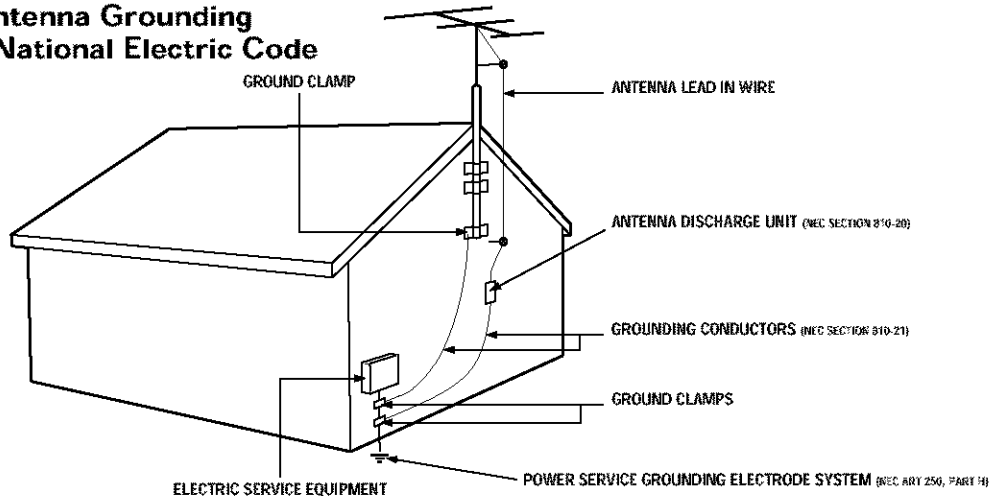
IMPORTANT SAFETY INSTRUCTIONS

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 apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NEPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
 - a) **Warning:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 - Install all batteries correctly, with + and - aligned as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.).
 - Remove batteries when the unit is not used for a long time.

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

Example of Antenna Grounding as per NEC - National Electric Code



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
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Features

Active Control™ continuously measures and corrects all incoming signals to help provide the best picture quality. This feature monitors and corrects both the sharpness control and noise reduction control.

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

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

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

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

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

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


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

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

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

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

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

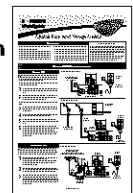
 As an Energy Star® Partner, Philips Consumer Electronics has determined this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.

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QUICK USE AND SETUP GUIDE

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



HOW TO USE THE INSTALLATION FEATURES



LANGUAGE

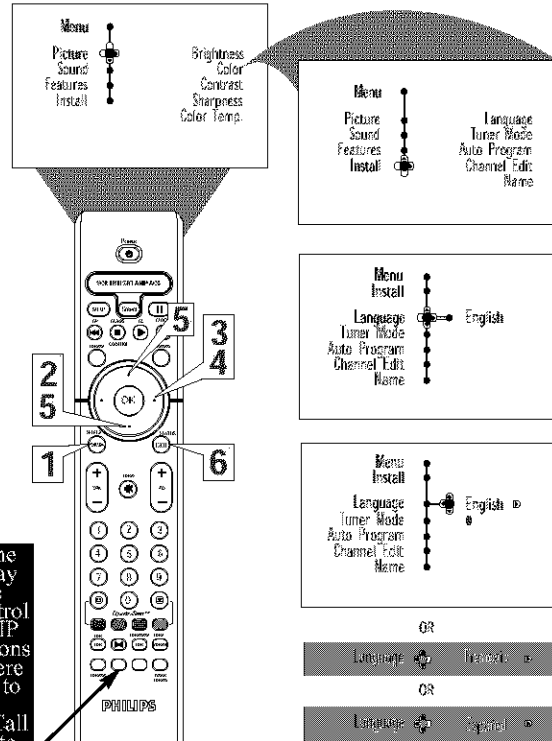
For our Spanish and French-speaking TV owners, an onscreen LANGUAGE option is present. The LANGUAGE control enables you to set the TV's onscreen menu to be shown in either English, Spanish, or French.

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

HELPFUL HINT

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

Note: Some models may show the remote control with the PIP feature buttons labeled, there is no need to call the Customer Call Center or to return the product to the store.



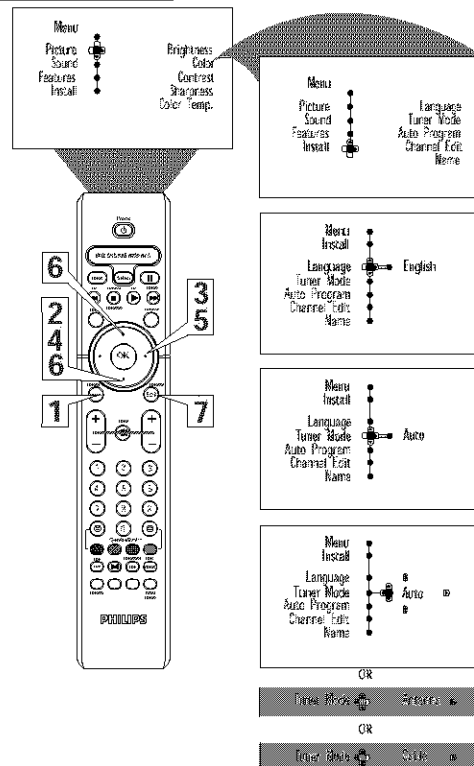
TUNER MODE

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

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

HELPFUL HINT

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



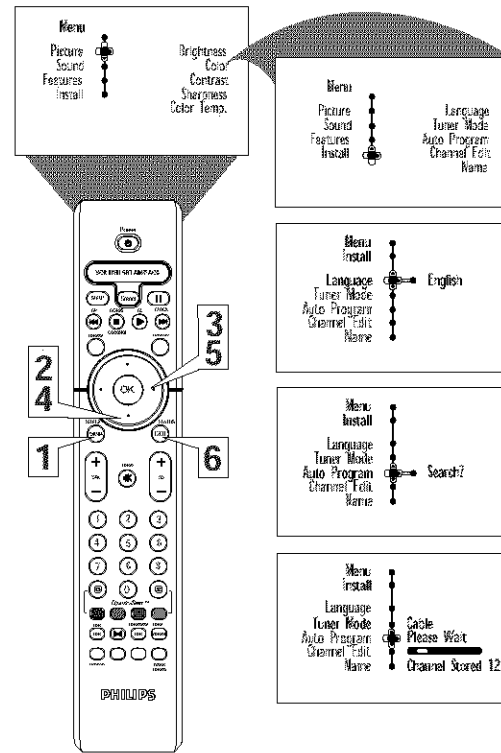


HOW TO USE THE INSTALLATION FEATURES

AUTO PROGRAM

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

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



HELPFUL HINT

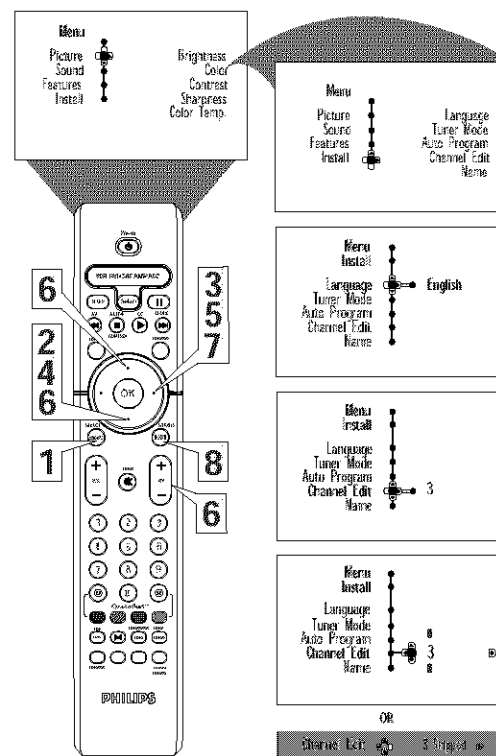
After you've run Auto Program, check out the results. Press the CHANNEL (+) or (-) button and see which channels you can select. Remember, an antenna or cable TV signal must first be connected to your TV, see Quick-Use Guide for making connections.

CHANNEL EDIT

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

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

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



HOW TO USE THE INSTALLATION FEATURES

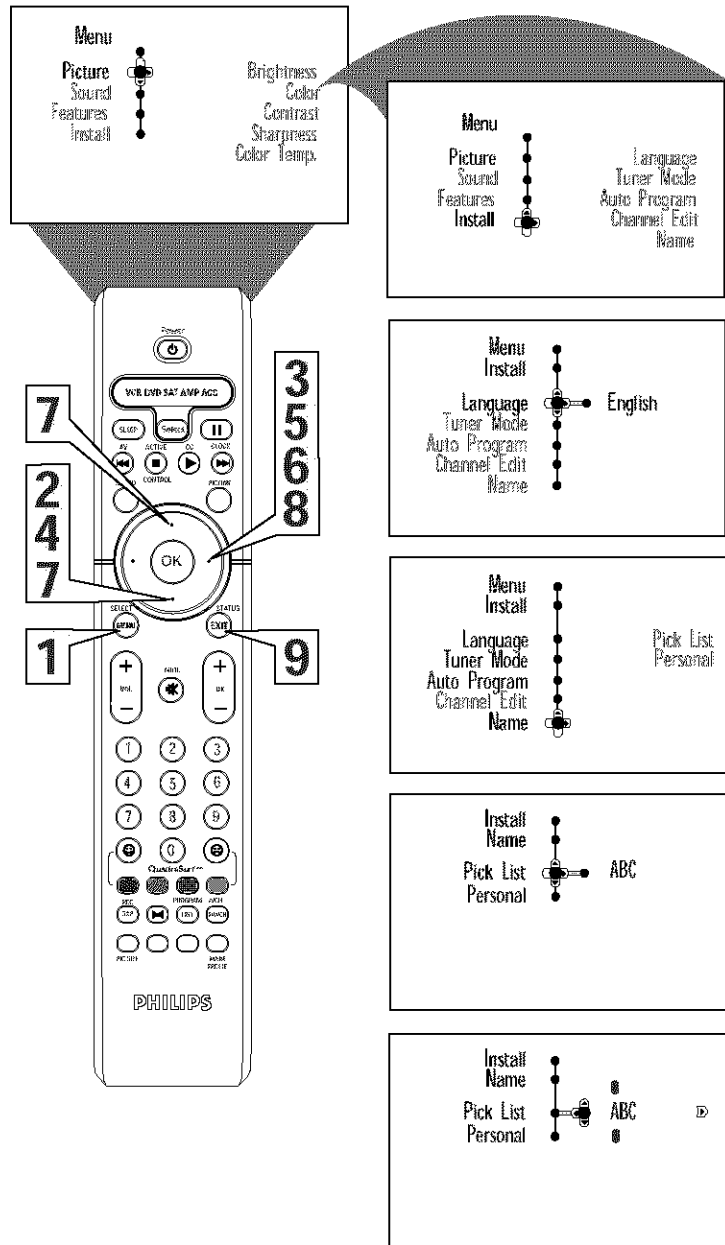


NAME CONTROL (PICK LIST)

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

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

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



HELPFUL HINT

The five characters that the channel NAME feature allows you to input can be letters, a dash (-), or the numbers 0 to 9.

The Channel Label or Name will appear when a channel change is made or when the STATUS/EXIT button is pressed.



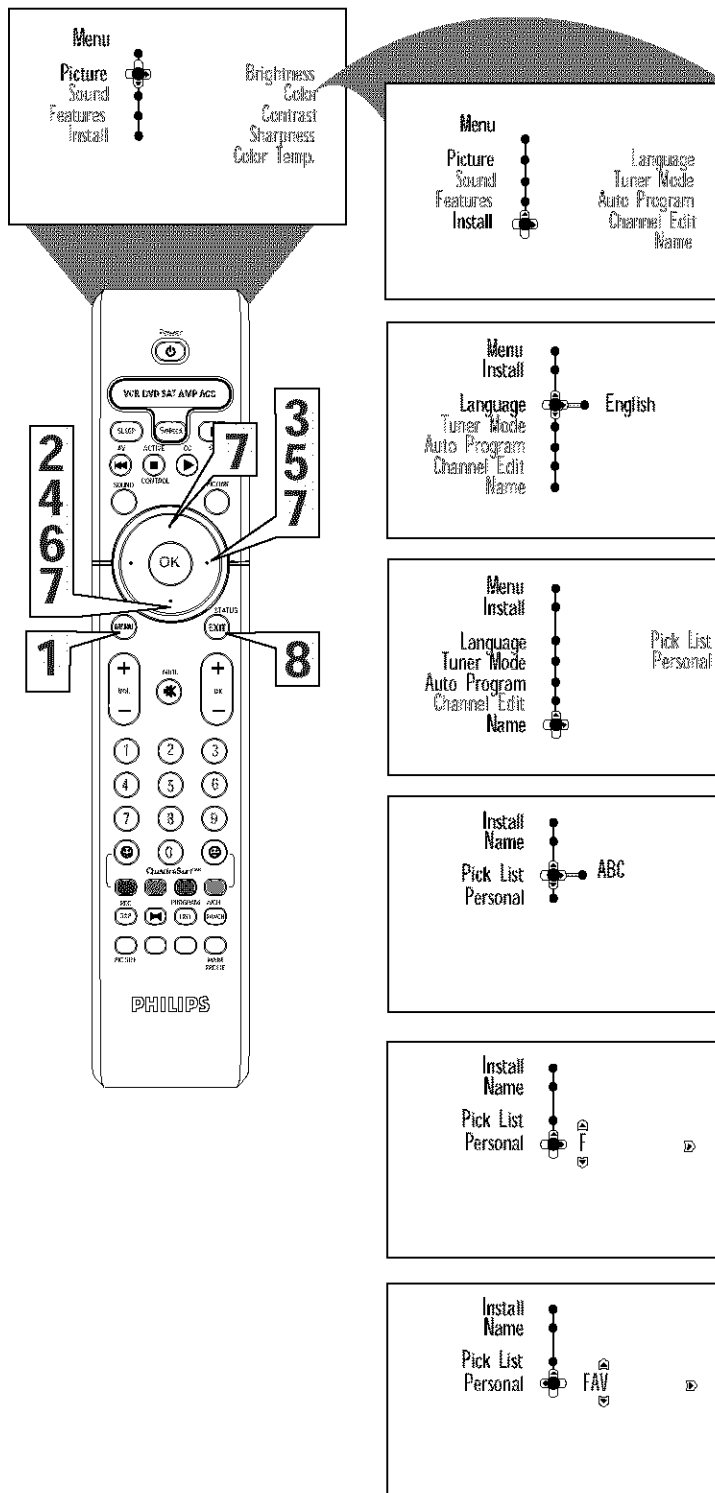
HOW TO USE THE INSTALLATION FEATURES

NAME CONTROL (PERSONAL)

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

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

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



HELPFUL HINT

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

HOW TO USE THE PICTURE ADJUSTMENT CONTROLS



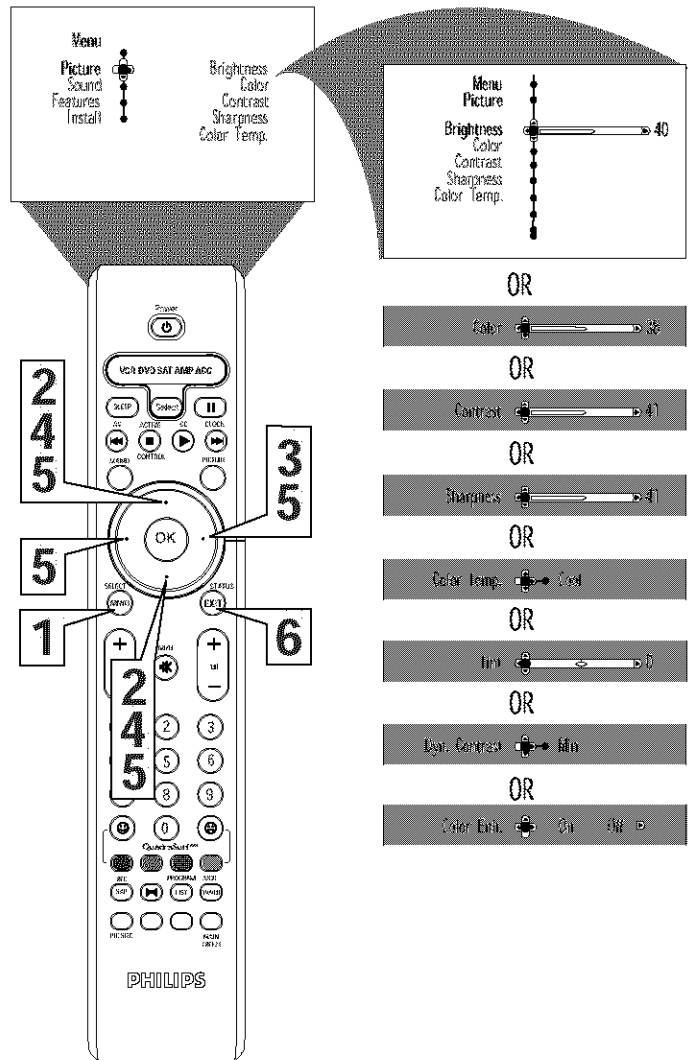
To adjust your TV picture controls, select a channel and follow these steps.

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight **PICTURE**.
- 3** Press the **CURSOR RIGHT** button to enter the Picture menu.
- 4** Press the **CURSOR UP** or **CURSOR DOWN** button to select the picture adjustment you want to change: Brightness, Color, Contrast, Sharpness, Color Temp., Tint, Dyn. Contrast, or Color Enh.

NOTE: The menu will show only five items at a time, so you will need to continue scrolling with the **CURSOR DOWN** button to adjust the Tint, Dyn. Contrast, or Color Enh.

- 5** Press the **CURSOR LEFT** or **CURSOR RIGHT** button to adjust the selected control. **OR**, if Color Temp. or Dyn. Contrast is chosen, press the **CURSOR UP** or **CURSOR DOWN** to select the preferred mode. If Color Enh. is selected press the **CURSOR RIGHT** button repeatedly to toggle the various modes.

- 6** Press the **STATUS/EXIT** button when finished to remove the menu from the screen.



HELPFUL HINT

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

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

Color – adds or eliminates color.

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

Sharpness – improves the detail in the picture.

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

Tint – adjusts the picture to obtain natural skin tones.

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

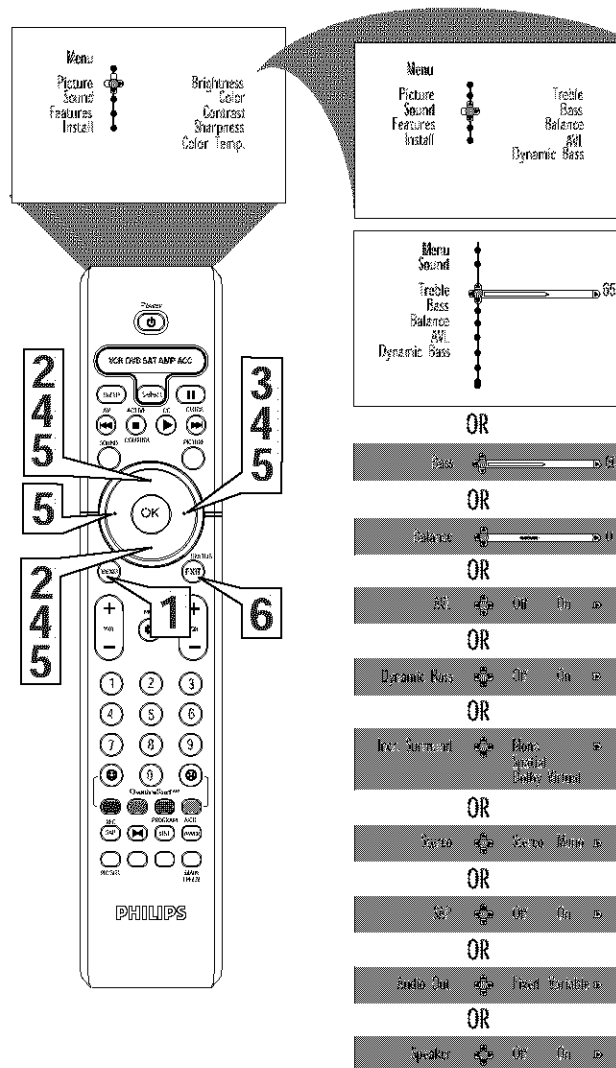
Color Enh(ancement) – increases the intensity of the color when “**On**” is selected.



HOW TO USE THE SOUND ADJUSTMENT CONTROLS

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

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



HELPFUL HINT

Treble – enhances the high frequency sounds.

Bass – enhances the low frequency sounds.

Balance – adjusts the level of sound coming from the left and right speakers.

AVL (Auto Volume Leveler) - when On, AVL will level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes.

Dynamic Bass - enhances the low frequency sounds.

Incr. Surround - adds greater depth and dimension to TV sound. Select from Incr. Surround, Dolby Virtual or Stereo sound (if Stereo) or Dolby Virtual, Spatial or Mono (if Mono).

SAP (Secondary Audio Programming)– sent as a third audio channel, a SAP signal can be heard apart from the current TV program sound. Note: If SAP is not available, “Not Available” will appear on the screen.

Audio Out – select from Variable or Fixed. When Variable is selected, change the volume at the TV using the TV’s remote control. If fixed is selected, change the volume at the external device’s audio controls.

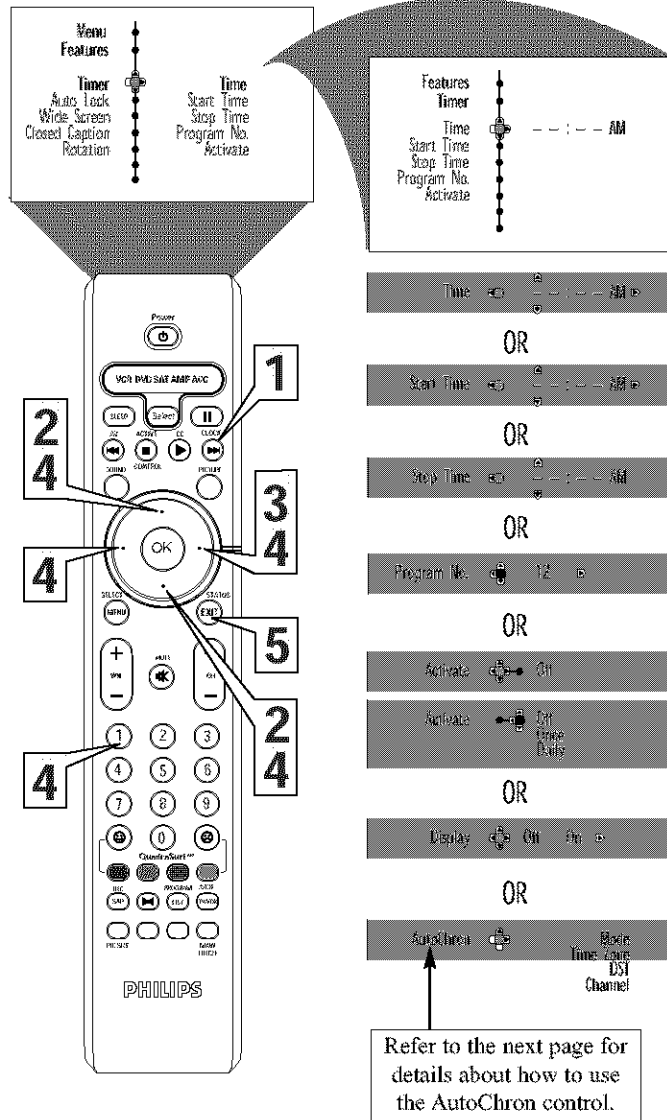
Speaker -turn the TV speaker On or Off. When a Hi-Fi system is used, turn the TV speaker Off to hear the sound from the Hi-fi system instead of the TV’s speakers. When no external audio system is connected, On must be selected to hear sound coming from the TV.

HOW TO USE THE TIMER MENU CONTROLS



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

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





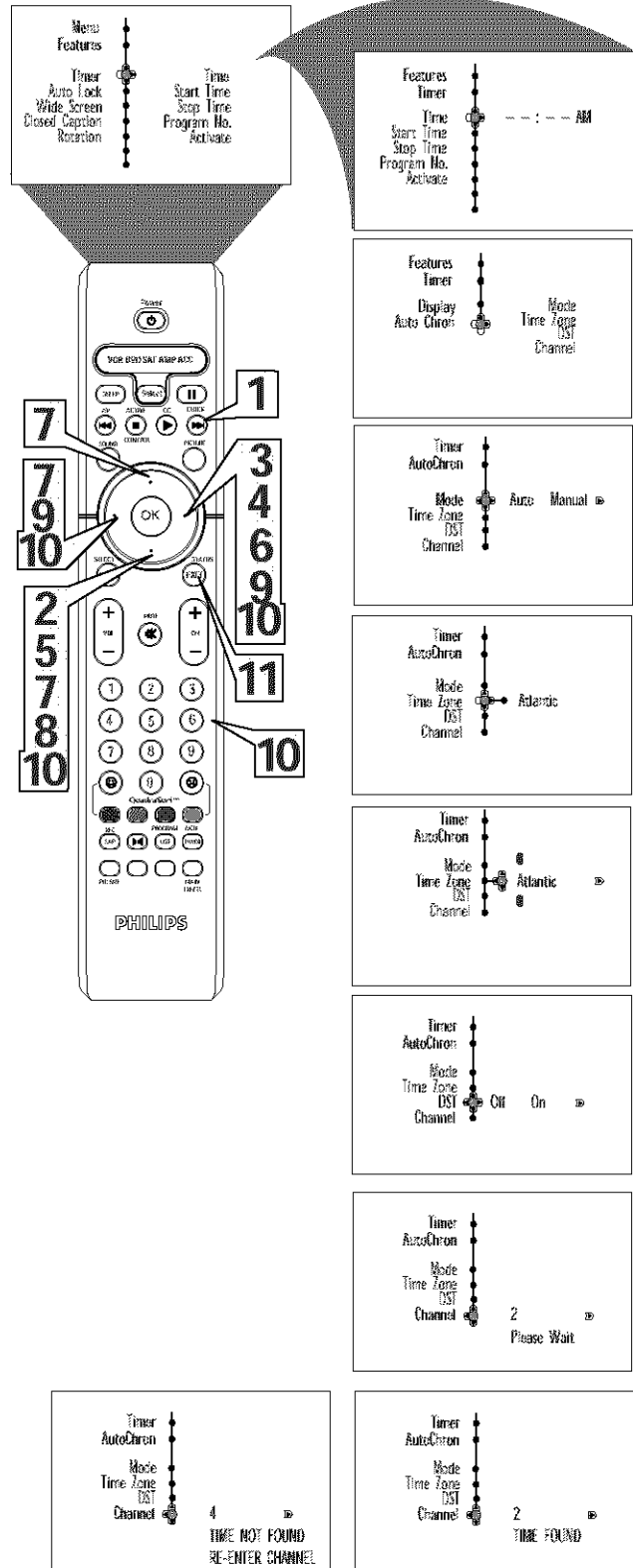
HOW TO USE THE TIMER MENU CONTROLS (CONT'D)

AUTO CHRON

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

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

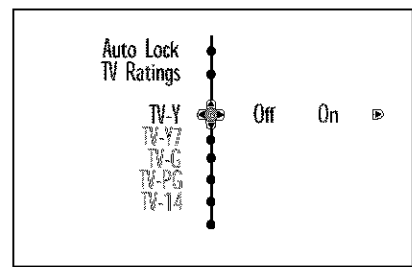
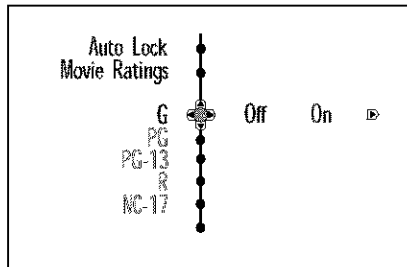
NOTE: If the AutoChron™ control is unable to find the time being transmitted on any channels, you may have to enter the time manually. Refer to the previous page for details.



UNDERSTANDING THE AUTOLOCK™ CONTROLS



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



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

AutoLock™ offers various Blocking Options from which to choose:

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

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

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

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

MOVIE RATINGS

(MOTION PICTURE ASSOCIATION OF AMERICA)

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

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

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

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

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

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

TV PARENTAL GUIDELINES

(TV BROADCASTERS)

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

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

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

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

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

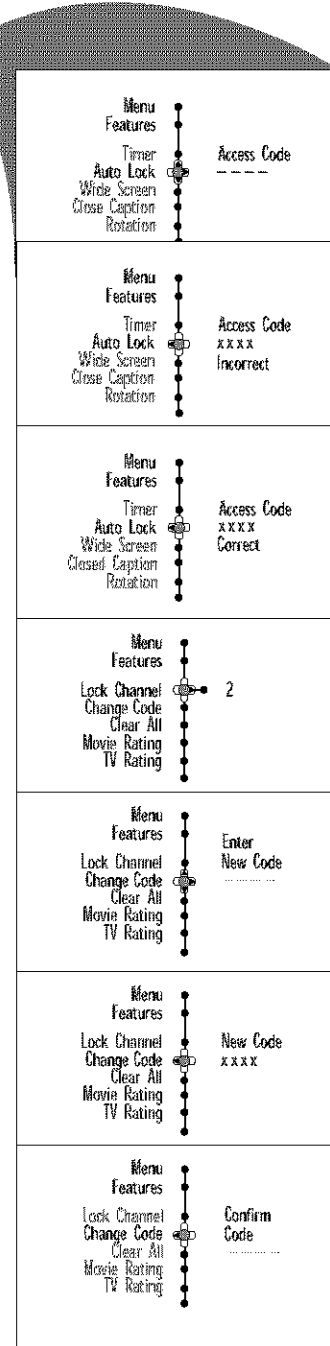
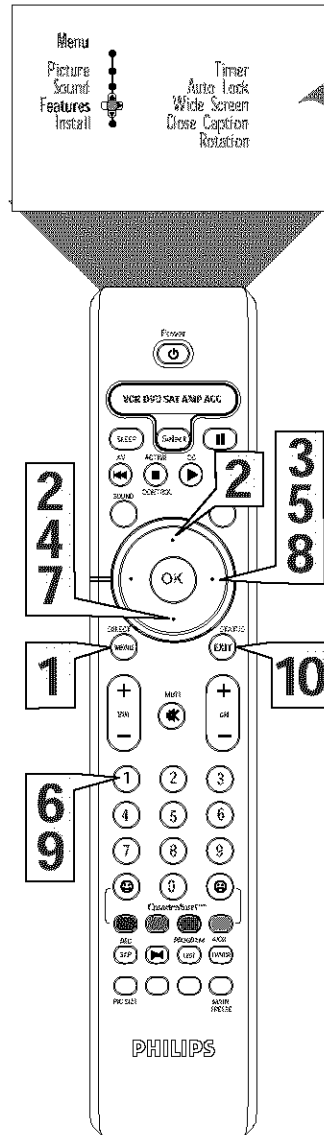
TV MA: (Mature Audience Only - This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) This type of programming contains one or more of the following: graphic violence (V); explicit sexual situations (S); or crude, indecent language (L).



SETTING UP AN AUTOLOCK™ ACCESS CODE

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

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



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

HELFUL HINT

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

HOW TO LOCK CHANNELS USING AUTOLOCK™



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

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

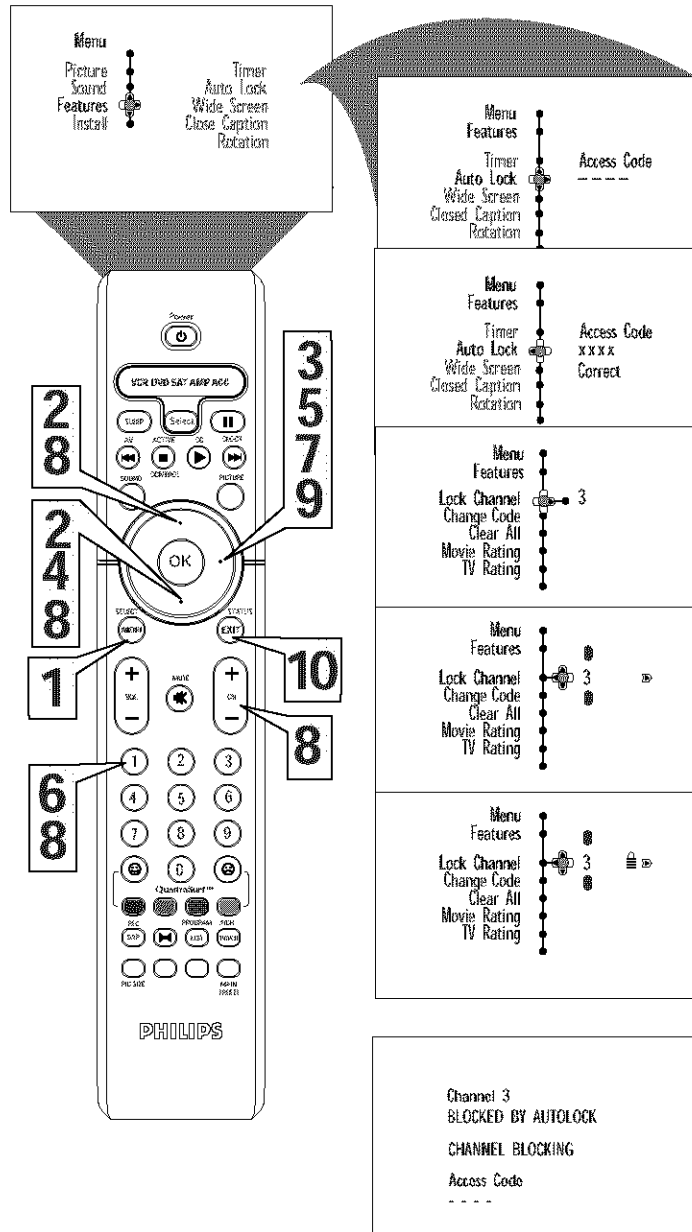
Repeat steps 8 and 9 for any channels you want to lock.

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

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

HELPFUL HINT

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



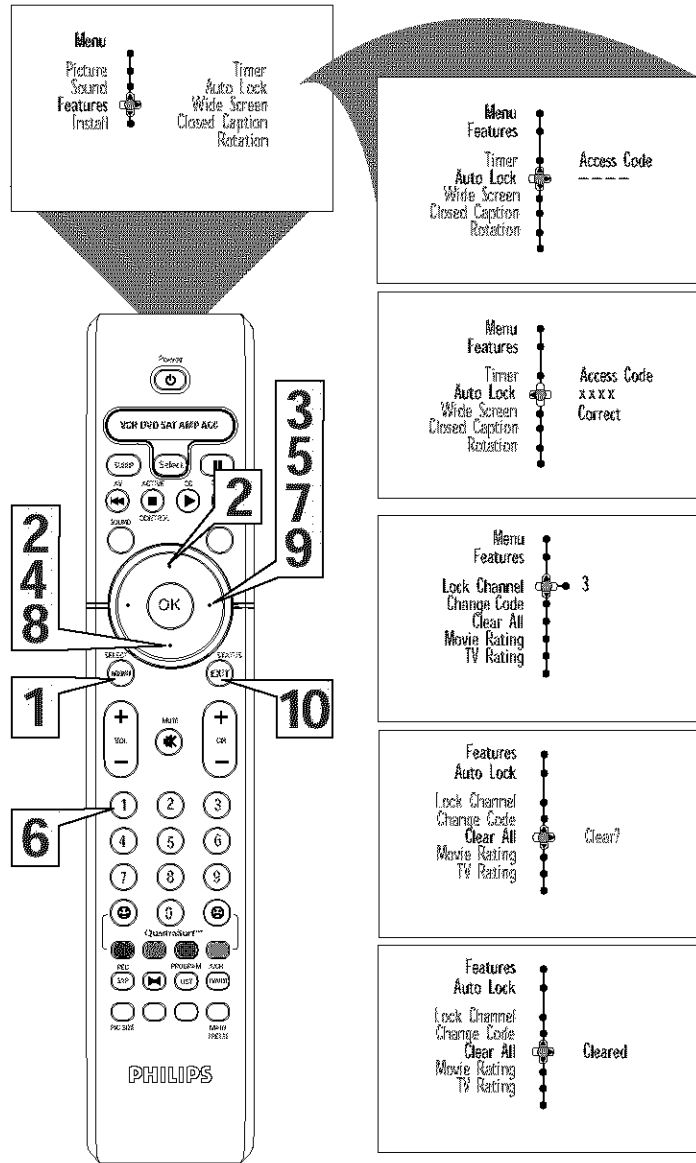
If your access code is entered on a blocked channel, the current channel along with all other blocked channels will become unblocked until the TV is powered off. Blocked channels will not appear when the Channel + or - buttons are pressed.



HOW TO CLEAR ALL LOCKED CHANNELS AT THE SAME TIME

Various onscreen messages will appear when someone tries to view blocked programming. The message is determined by how the current programming is blocked. You may view the blocked programming and turn OFF the AutoLock™ feature by using the Clear All control or by entering your access code.

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



HELPFUL HINT

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

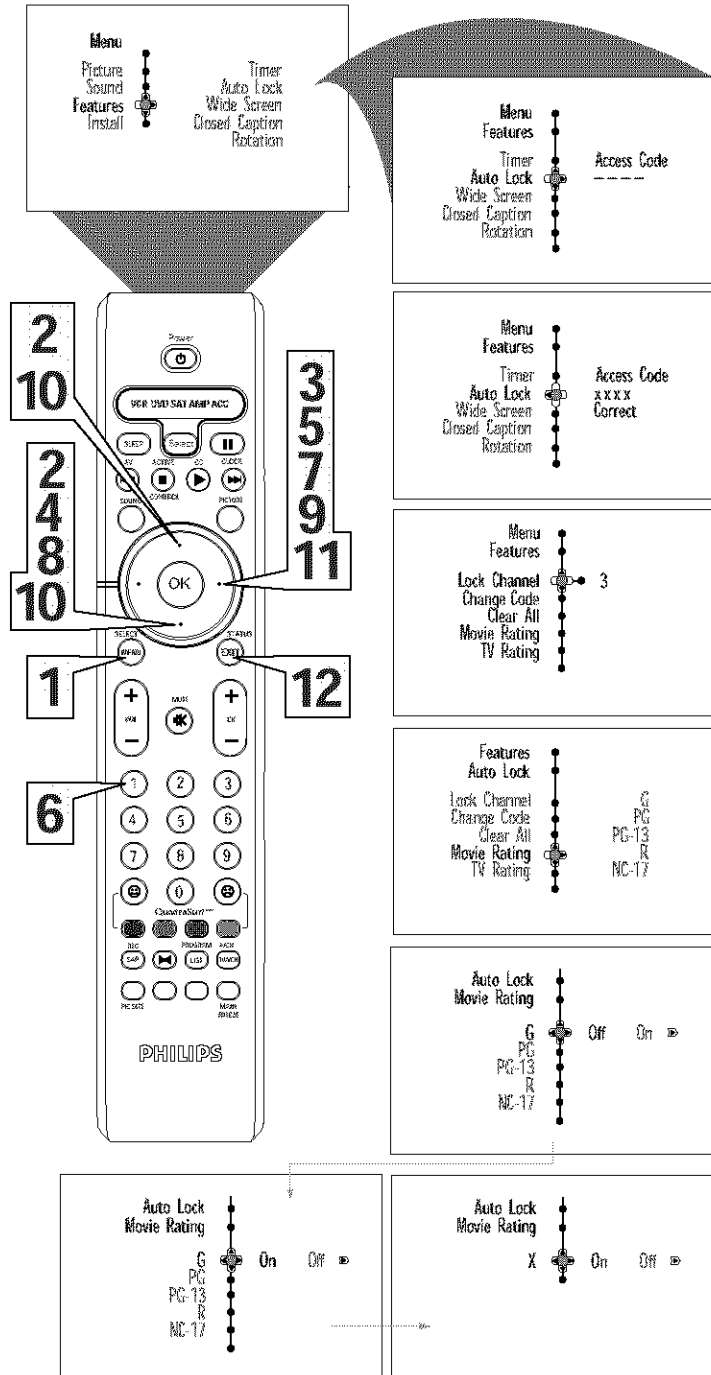
NOTE: This will unblock ALL channels until the TV is shut OFF. When powered back ON, all previously blocked channels will be blocked again.

BLOCKING PROGRAMS BASED ON MOVIE RATINGS



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

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



HELPFUL HINT

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

All Movie Ratings can be turned ON or OFF.

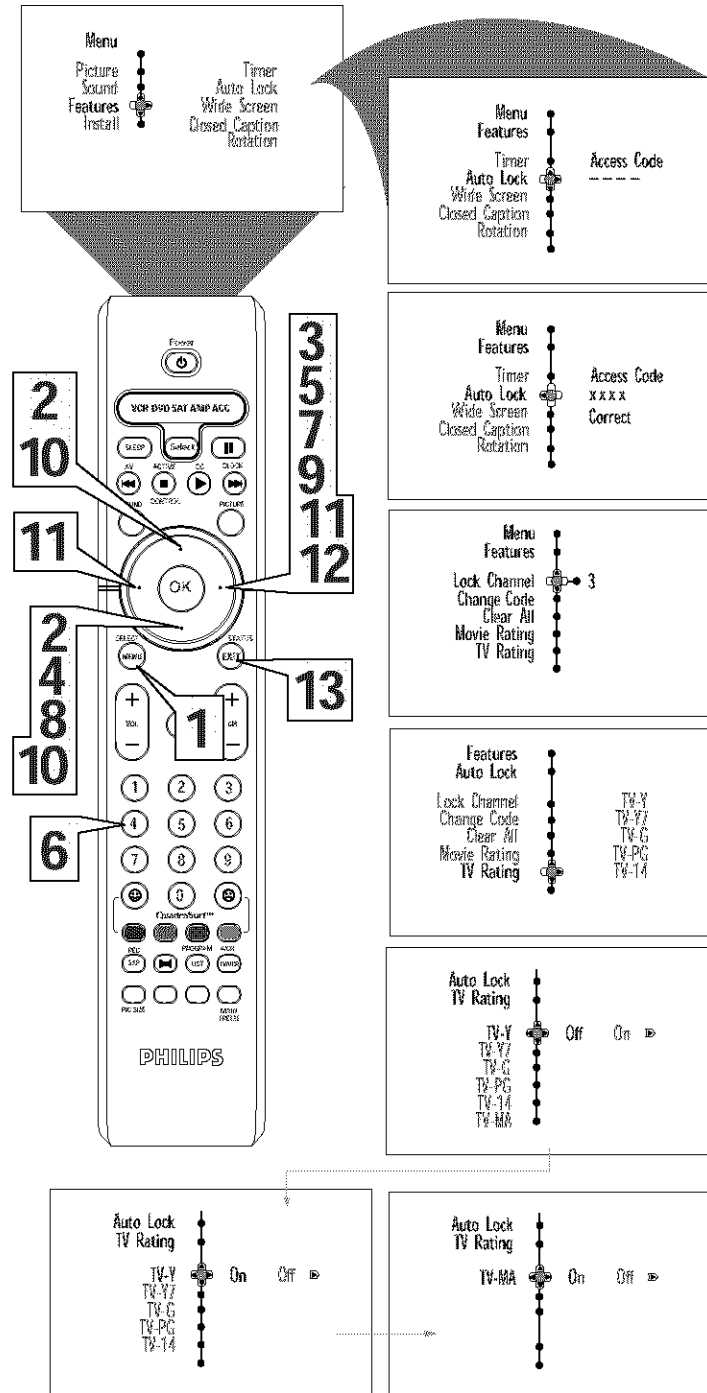
Refer to page 13 for Movie Rating definitions.



BLOCKING PROGRAMS BASED ON TV RATINGS

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

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
 - 2** Press the **CURSOR UP** or **CURSOR DOWN** button to highlight Features.
 - 3** Press the **CURSOR RIGHT** button to display the Features menu.
 - 4** Press the **CURSOR DOWN** button to highlight the AutoLock™ control.
 - 5** Press the **CURSOR RIGHT** button again to highlight Access Code.
 - 6** Enter your four-digit Access Code. Correct will flash very briefly and the menu will move to the left with the AutoLock menu now accessible.
 - 7** Press the **CURSOR RIGHT** button to display the AutoLock menu.
 - 8** Press the **CURSOR DOWN** button repeatedly until TV Rating is highlighted.
 - 9** Press the **CURSOR RIGHT** button to enter the TV RATING menu.
 - 10** Press the **CURSOR UP** or **DOWN** to select a desired rating (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA).
 - 11** Press the **CURSOR RIGHT** or **LEFT** to turn the block on the rating ON or OFF.
- NOTE:** More specific subratings (for violence, sexual content, dialogue, or fantasy violence) are available for TV-Y7, TV-PG, TV-14, and TV-MA. (Refer to page 13 for definitions.)
- 12** To access these subratings, with the main rating selected, press the **CURSOR RIGHT**. Then, repeat steps 8 and 9 to turn the sub-ratings ON or OFF.
 - 13** Press the **STATUS/EXIT** button to remove the menu from the screen.



HELPFUL HINT

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

OTHER AUTOLOCK™ BLOCKING OPTIONS



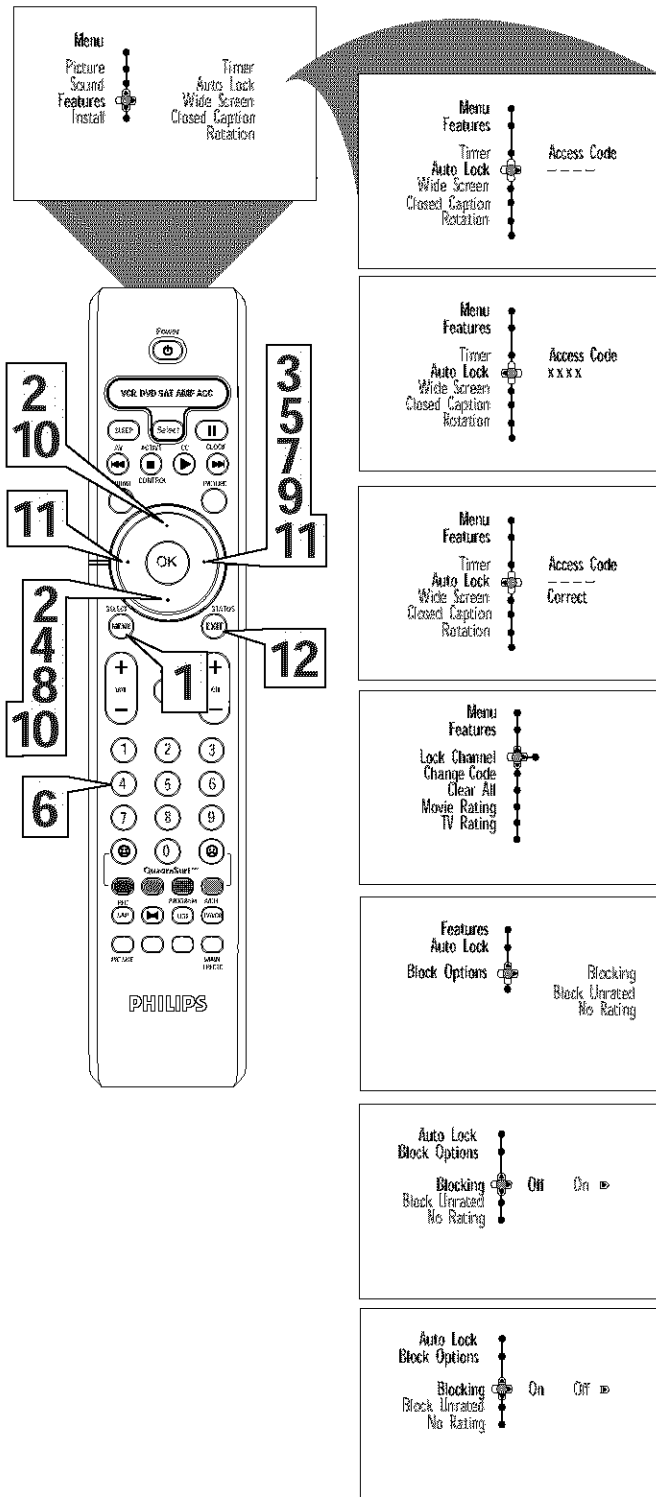
The AutoLock™ control offers the viewer other blocking options as well. With Block Options, the censoring can be turned On or Off.

- 1** Press the MENU/SELECT button on the remote control to show the onscreen menu.
- 2** Press the CURSOR UP or CURSOR DOWN button to highlight Features.
- 3** Press the CURSOR RIGHT button to display the Features menu.
- 4** Press the CURSOR DOWN button to highlight the AutoLock™ control.
- 5** Press the CURSOR RIGHT button again to highlight Access Code.
- 6** Enter your four-digit Access Code. Correct will flash very briefly and the menu will move to the left with the AutoLock menu now accessible.
- 7** Press the CURSOR RIGHT button to display the AutoLock menu.
- 8** Press the CURSOR DOWN button repeatedly until Block Options is highlighted.
- 9** Press the CURSOR RIGHT button to enter the Block Options menu.
- 10** Press the CURSOR UP or DOWN buttons to select the desired block option.

Blocking: Might be called the “master switch” for AutoLock™. When On, ALL blocking/censoring will take place. When Off, ALL blocking is disabled.

Block Unrated: ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to On and the Blocking feature is set to OFF.

No Rating: ALL programming with NO content advisory data can be blocked if set to On and the Blocking feature is set to OFF.
- 11** Press the CURSOR RIGHT or LEFT to toggle BLOCKING ON or OFF.
- 12** Press the STATUS/EXIT button to remove the menu from the screen.



HELPFUL HINT

Remember, when the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen.



USING THE AUTOLOCK™ REVIEW SCREEN

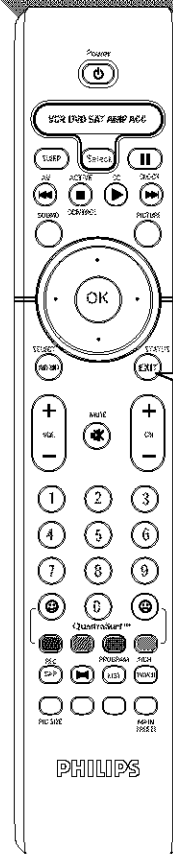
To remind you which rating you have locked and which Block Options you have selected, a review screen is available to review your AutoLock™ settings. To access this screen follow the steps below.

- 1 Press the **STATUS/EXIT** button on the remote control TWICE. Your AutoLock™ settings will appear on the screen.

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

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

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



HELPFUL HINT

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

AutoLock is set to Off by default.

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

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

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

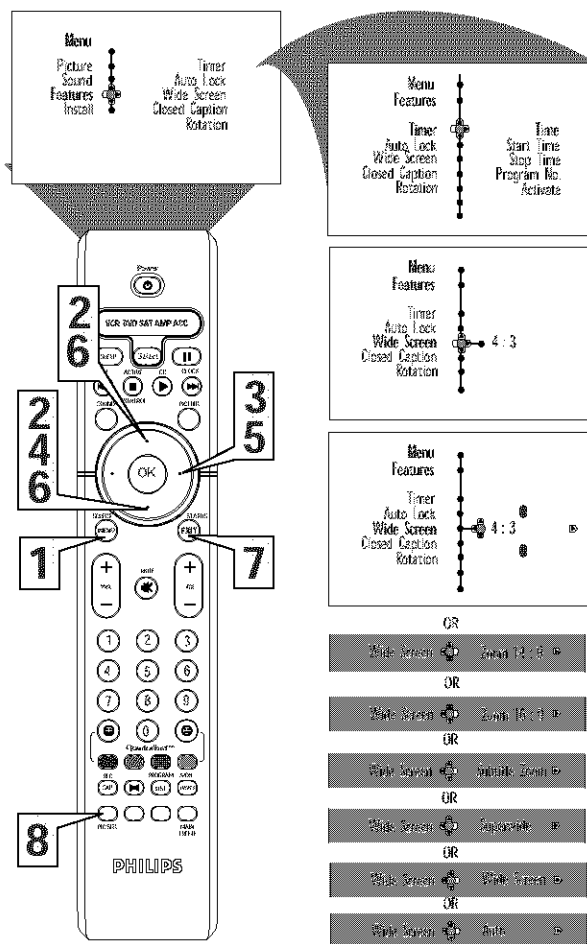
AutoLock DISABLED

HOW TO USE THE WIDE SCREEN FORMAT CONTROLS



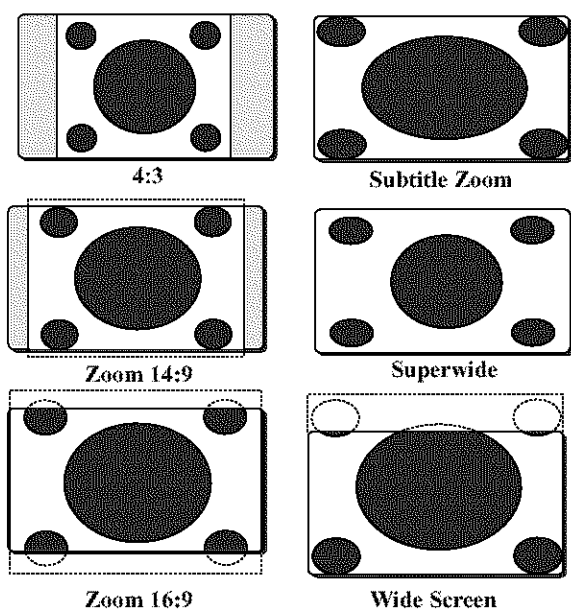
You can change the screen format size to match the type of program you're watching. Select the normal 4:3, Zoom 14:9, and Subtitle aspect ratios. There also is 16:9, Superwide, and Wide Screen aspect ratios, which allows movies to be viewed in their full width (known as letter-box style).

- 1** Press the **MENU/SELECT** button on the remote control to show the on-screen menu.
 - 2** Press the **CURSOR UP** or **CURSOR DOWN** twice to highlight Features.
 - 3** Press the **CURSOR RIGHT** and the menu will shift to the left.
 - 4** Press the **CURSOR DOWN** repeatedly until the Wide Screen control is highlighted.
 - 5** Press the **CURSOR RIGHT** button to enter the Wide Screen menu.
 - 6** Press the **CURSOR UP** or **CURSOR DOWN** repeatedly to toggle among the screen format sizes – 4:3, Zoom 14:9, Zoom 16:9, Subtitle Zoom, Superwide, Wide Screen, or Auto.
 - 7** Press the **STATUS/EXIT** button to remove the menu from the screen.
- OR
- 8** You can toggle the screen format by repeatedly pressing the **PIC SIZE** button on the remote control.



HELPFUL HINT
The **FORMAT** control is not available for use with the AV 4 Inputs (AV4 Channel) if 1080i signal is detected.

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





HOW TO USE THE CLOSED CAPTION CONTROLS

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

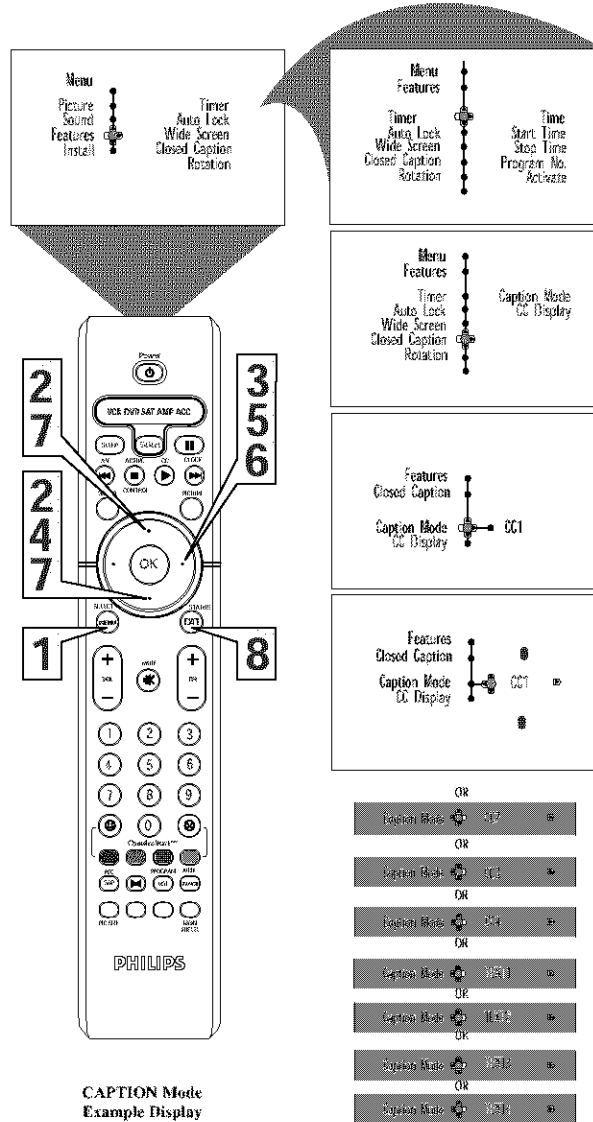
- 1** Press the **MENU/SELECT** button on the remote control to show the on-screen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** twice to highlight Features.
- 3** Press the **CURSOR RIGHT** button, the menu will shift to the left.
- 4** Press the **CURSOR DOWN** repeatedly until the Closed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

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

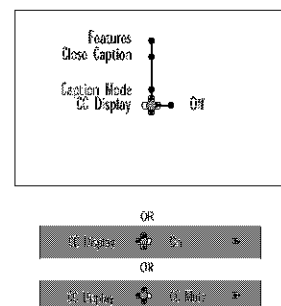
- 8** Press the **STATUS/EXIT** button to remove the menu from the screen.

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

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



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

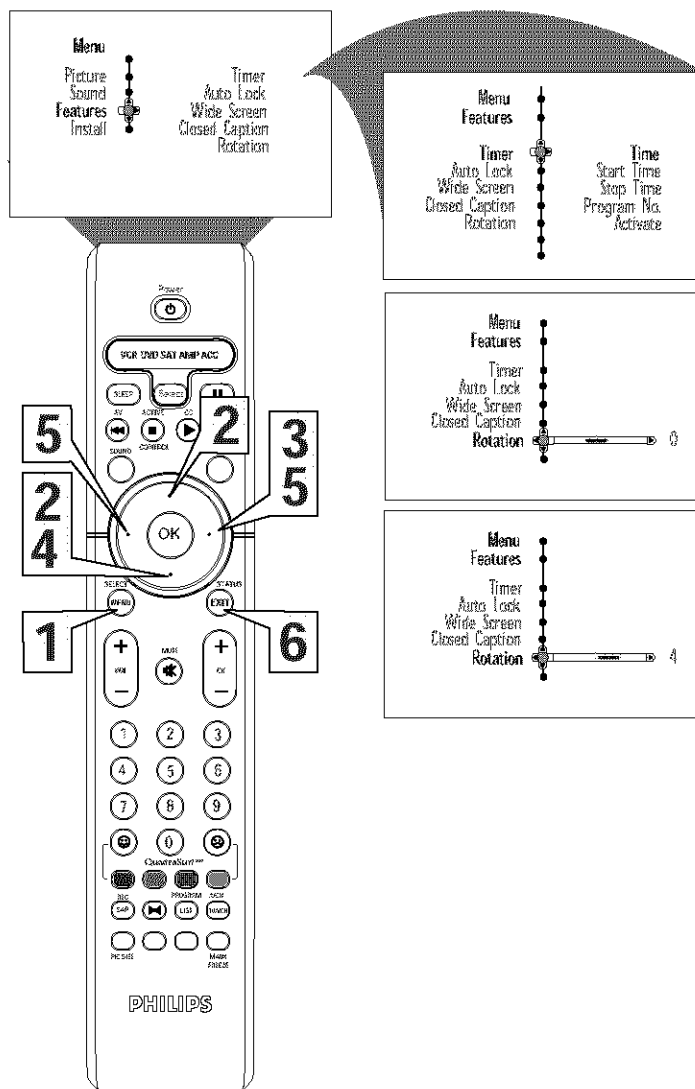


HOW TO USE THE ROTATION CONTROLS

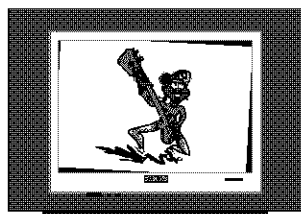


In rare cases the video supplied to the TV screen might show slightly tilted one way or another. The Tilt Adjust control will allow you to correct the problem by adjusting the screen in a clockwise or counterclockwise direction.

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



Picture tilted to the left



Picture tilted to the right



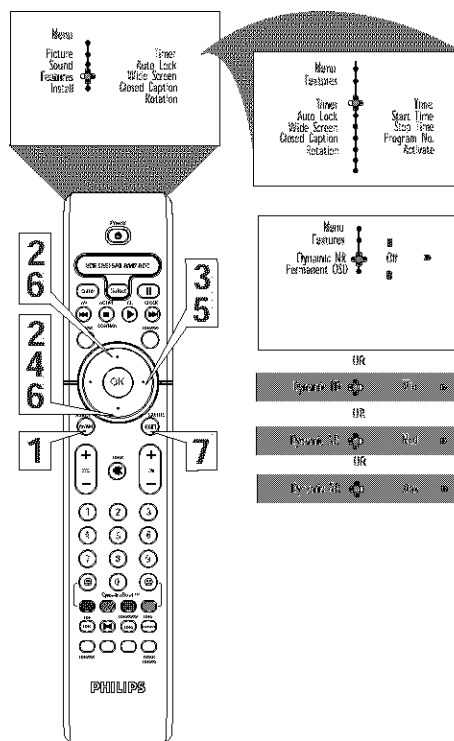
After adjustment



HOW TO USE THE DYNAMIC NR (NOISE REDUCTION) CONTROL

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

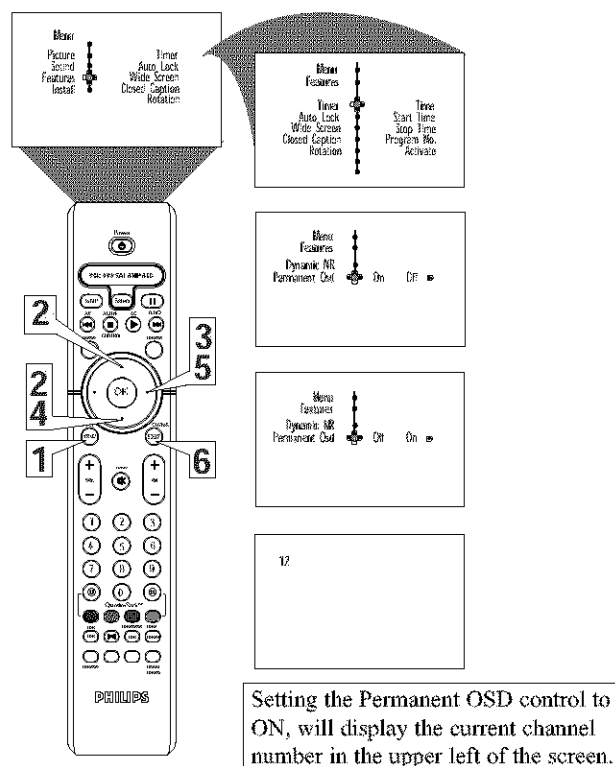
- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR UP** or **CURSOR DOWN** twice to highlight Features.
- 3** Press the **CURSOR RIGHT** button to display the Features menu.
- 4** Press the **CURSOR DOWN** button repeatedly until the Dynamic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



HOW TO USE THE PERMANENT OSD (ONSCREEN DISPLAY) CONTROL

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

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



HOW TO USE THE QUADRASURF CONTROLS



A "list" or series of previously viewed channels can be selected with the QuadraSurf™ (colored) buttons on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The QuadraSurf™ control allows you set up four different personal Surf lists using the colored buttons (on the remote control), each holding up to ten channels in its quick viewing "list."

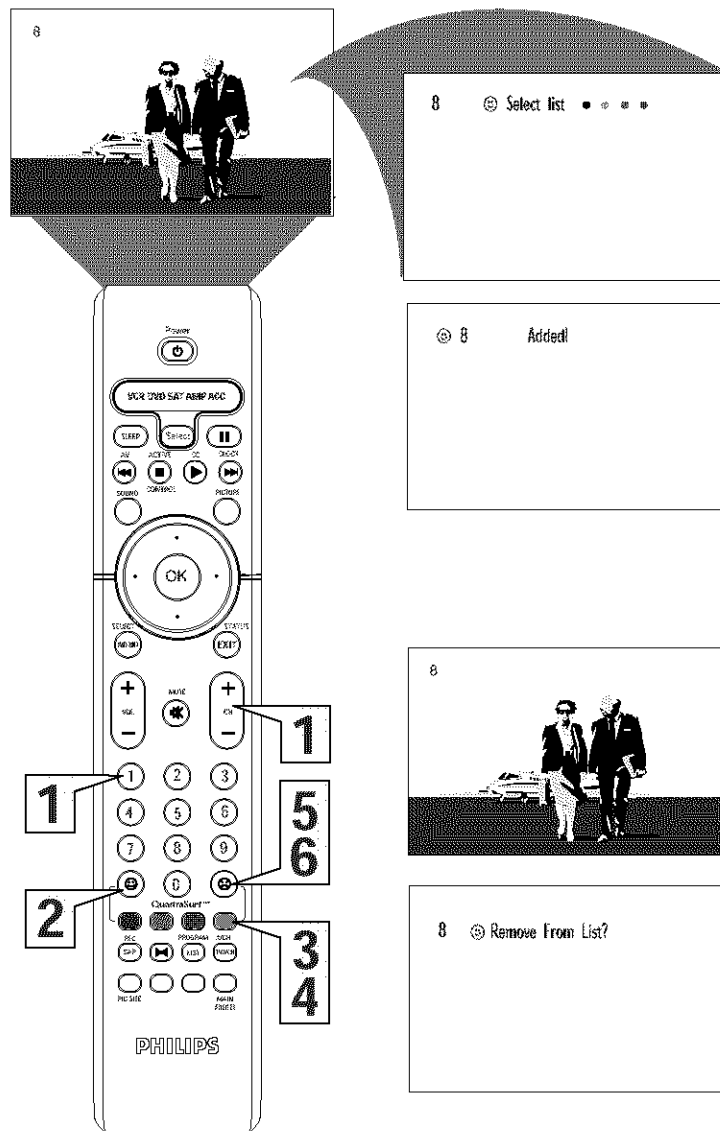
- 1** Press the CHANNEL (+) or (-) buttons (or the NUMBER buttons) to select a channel to add to one of the SURF lists.
- 2** Press the SMILEY ☺ button on the remote control to ADD the channel to one of the SURF lists.
- 3** Press the corresponding COLORED (Red, Green, Yellow or Blue) button to add the channel to that button's Surf list. (Up to ten channels per button can be stored.)

Repeat steps 1 through 3 to add additional channels (up to 10) to each of the the SURF lists.

To remove a channel from one of the SURF lists;

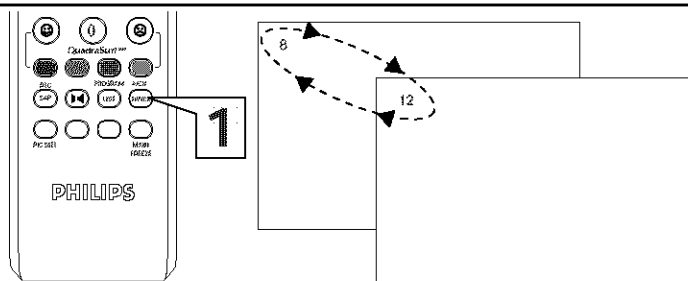
- 4** Press the COLORED QuadraSurf™ button until the desired channel appears. The screen will display the channel number with a colored "Smiley" face to indicate the Colored button it relates to.
- 5** While the "Smiley" face channel indicator is displayed, press the FROWNIE ☹ button. The screen will read, "Remove item? - Press ☺."
- 6** Press the FROWNIE ☹ face button again to confirm your decision to remove the channel from the Surf list.

Repeat steps 4-6 to remove other channels from Surf lists.



ALTERNATE CHANNEL

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





HOW TO USE THE QUADRASURF CONTROLS

The *QuadraSurf™* buttons on your remote control allow you to store up to 10 channels per button (40 total). This is a great feature if you want to store all your favorite Sports channels, Movie channels, or News channels in one surf list. Family members can have their own favorite list of channels. You can even program the external A/V Input jacks for one of the buttons making it a "source" button for your external accessory devices.

Assuming channels have now been added to the four *QuadraSurf™* lists (the four colored buttons on the remote, see the previous page), let's review how the feature works.

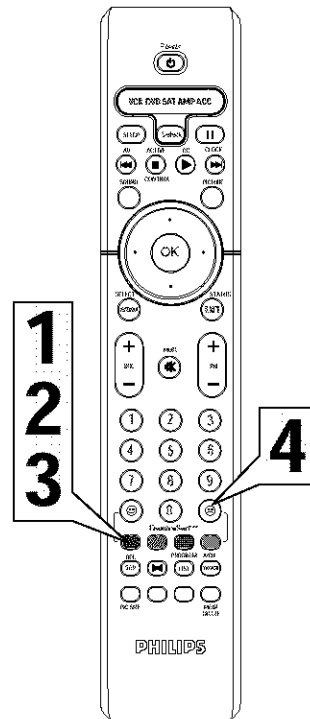
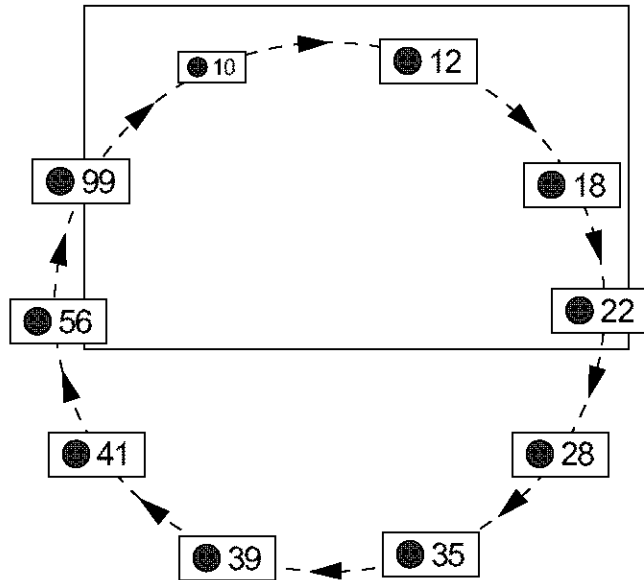
1 Press one of the pre-programmed **COLORED** buttons on the remote (Red, Green, Yellow or Blue). The screen will display a smiley face with the first programmed channel for that surf list.

2 While the colored "smiley" face still appears on the screen, press the same **COLORED** button on the remote to tune the second channel programmed for that specific surf list.

3 Repeatedly pressing the same **COLORED** button while the "smiley" face appears will tune all the programmed channels for that specific surf list. After the last channel is tuned, pressing the **COLORED** button again will return you to the first channel in the list.

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

4 Pressing the "frownie" face button will allow you to remove it from the list (see the previous page for more details).

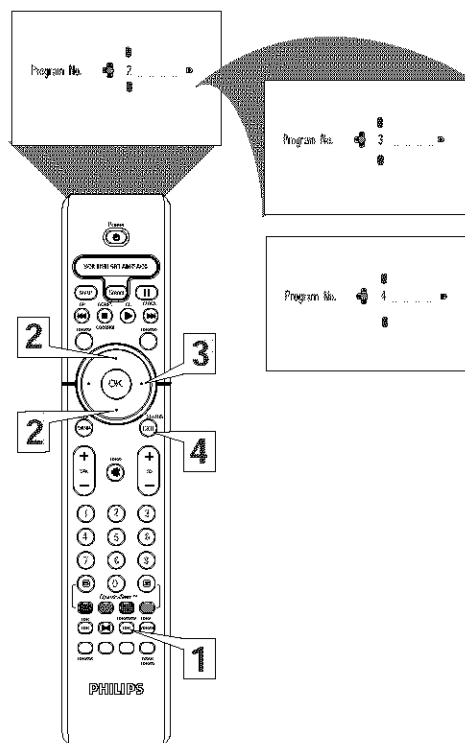


HOW TO USE THE PROGRAM LIST CONTROL



The Program List Control will allow you to quickly overview all the programmed channels that have been placed into the television's memory (see the Auto Programming section of this manual for more details). program List will display the channel number, the name of the channel if you have given it one, and where it will have AutoLock turned On or Off.

- 1** Press the **PROGRAM LIST** button on the remote control to show the current list of installed channels (the current channel will be highlighted).
- 2** Press the **CURSOR UP** or **DOWN** buttons to scroll the list of channels, highlighting the one you want to activate.
- 3** Press the **CURSOR RIGHT** button to activate the channel. The TV will tune to that channel.
- 4** Press the **STATUS/EXIT** button to remove the menu from the screen.



HOW TO USE THE ACTIVE CONTROL



The Active Control monitors and adjusts incoming video signals to help provide the best picture quality.

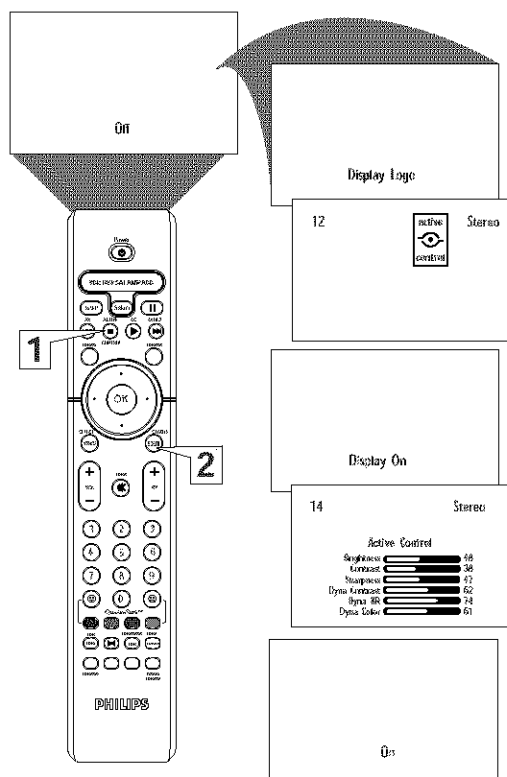
When you choose to turn the Active Control ON, the picture sharpness and noise reduction are controlled automatically. Active Control adjusts these picture settings continuously and automatically.

NOTE: Active Control is not available for signals connected to the AV4 inputs.

- 1** Press the **ACTIVE CONTROL** button on the remote control to toggle the control options (Off, On, Display Logo, or Display On) and select the option that you want.
- 2** Press the **STATUS/EXIT** to remove the menu from the screen.

HELPFUL HINT

If Display On is selected, a display screen will appear when the channel is changed showing the picture setting. If Display Logo is selected, the Active Control logo will be displayed during channel changes.





HOW TO USE THE SLEEPTIMER CONTROL

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

- 1** Press the **SLEEP** button on the remote control. The **SLEEP** timer onscreen display will appear in the upper part of the screen.
- 2** Within five seconds, press the **SLEEP** button repeatedly to pick the amount of time (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes) before the TV will turn itself off.

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

HELPFUL HINT

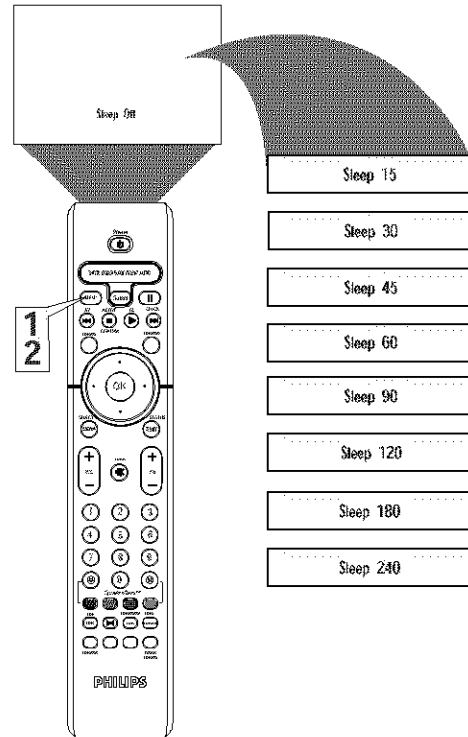
To see how many minutes remain before the TV shuts itself off, press the **STATUS/EXIT** button.

A Sleep Timer setting can be cancelled by pressing any button during the last minute of the operation.

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



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



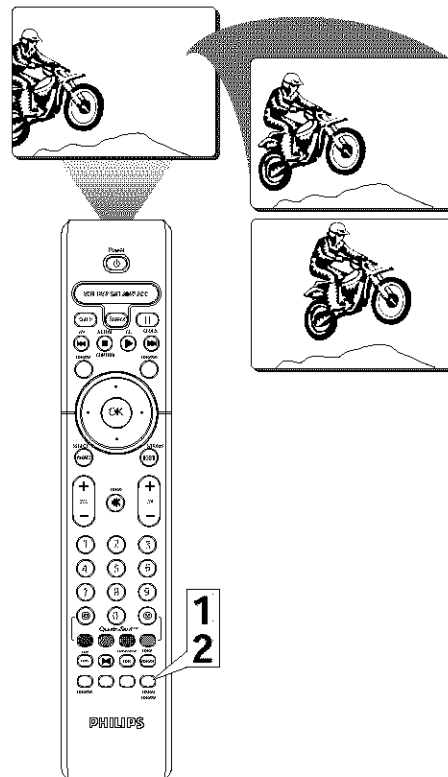
HOW TO USE THE FREEZE CONTROL

Have you ever wished you could freeze the picture on the television broadcast to write down a special telephone number or to capture a needed address? Your television will allow you to do just that with the press of just one button on the remote control.

- 1** With a signal on the television screen, simply press the **FREEZE** button on the remote control to stop the picture at any given moment.
- 2** Press the **FREEZE** button on the remote control again to resume normal viewing.

HELPFUL HINT

After freezing a picture on the screen, when the **FREEZE** control is turned OFF, the normal signal programming will be shown at its present time. The signal that was being shown while the picture was frozen will not be viewable.



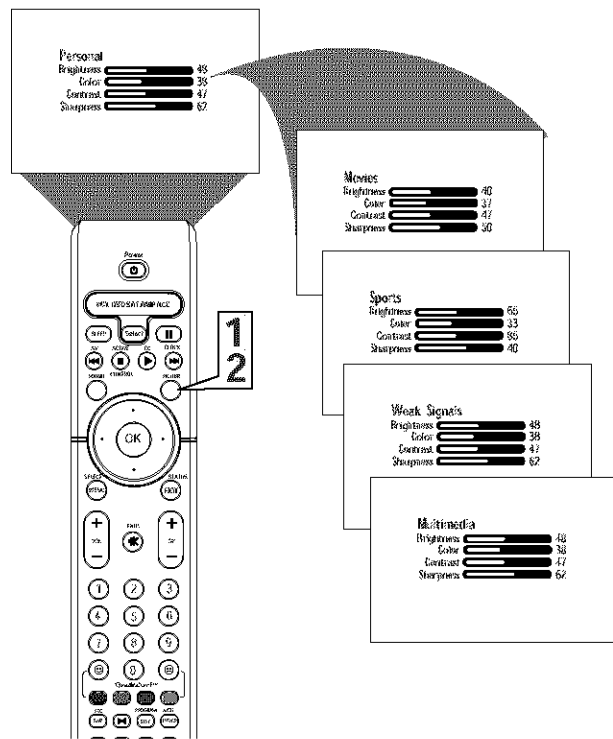
HOW TO USE THE AUTOPICTURE™ CONTROL



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

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

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



HOW TO USE THE AUTOSOUND™ CONTROL



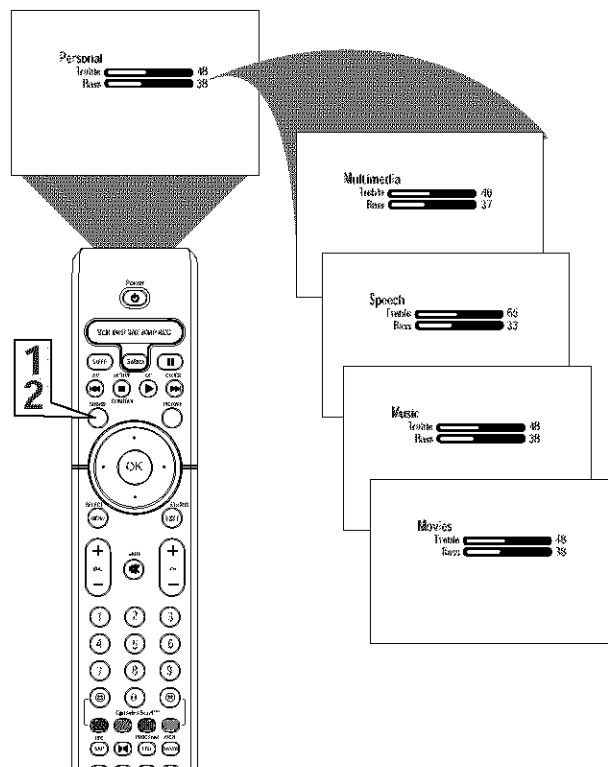
AutoSound™ allows you to select from four factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The four factory-set controls (Multimedia, Speech, Music, and Movies) enable you to tailor the TV sound so as to enhance the particular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

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

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

HELPFUL HINT

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





SETTING THE REMOTE CONTROL TO OPERATE ACCESSORY DEVICES

MODE SELECTION

The remote control that is supplied with your television may also work with a variety of infrared controlled accessory devices such as VCRs, Cable Boxes, DVD Players, Satellite Receivers, etc. The following instructions explain how to change the remote mode for the type of accessory device you are using.

- 1** Press and release the **SELECT** button on the remote control. The last used mode before TV-MODE will lit up for 2 seconds. After 2 seconds, the LED for that MODE will begin to flash.
- 2** Press and release the **SELECT** button on the remote control within 2 seconds to move to the next MODE. the new MODE's LED will lit for 2 seconds, then begin to flash.
- 3** Repeat the steps above to continue through the MODEs until the desired MODE is selected.

MODE TIMEOUT SETTINGS:

When the remote MODE times out, the remote control will revert to the TV MODE. Timeout length occurs from the last command or button press in any of the MODEs. The length of time before a MODE timeout occurs can be changed.

To change the length of the timeout duration, follow the steps below:

- 4** Simultaneously, press the **SELECT** button and the **NUMBERED** button from the list below to reset the desired amount of timeout length.

Digit 1 = 15 seconds before timeout

Digit 2 = 30 seconds before timeout

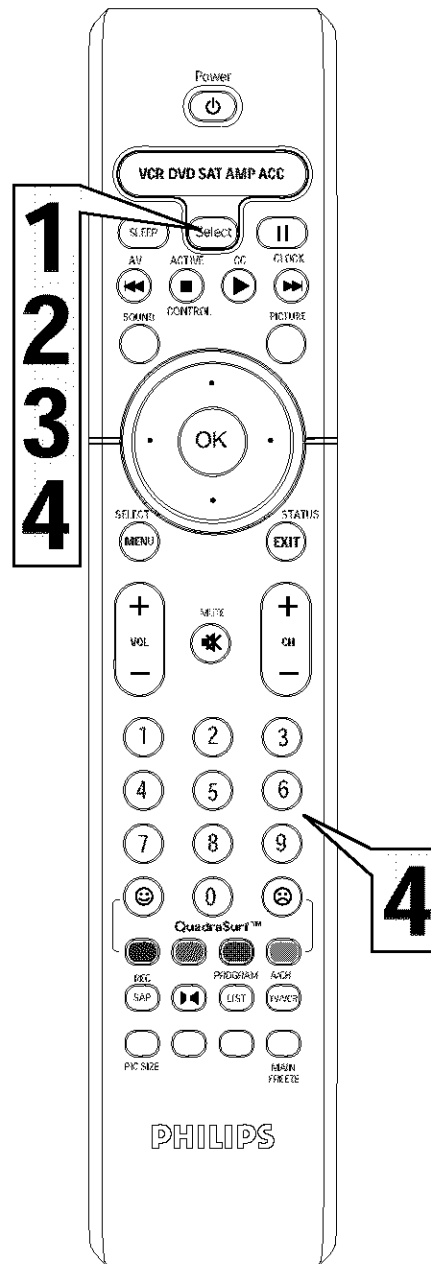
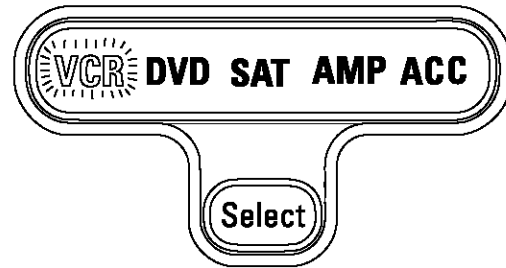
Digit 3 = 60 seconds before timeout

Digit 4 = 120 second before timeout

(Example: You want the MODE timeout to be 60 seconds, you would need to press the SELECT button and the NUMBER 3 button at the same time.)

HELPFUL HINT

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



SETTING THE REMOTE CONTROL TO OPERATE ACCESSORY DEVICES



CODE ENTRY METHOD

The remote control supplied with your TV can also be programmed by entering a specific code for your type of accessory device. Follow the instructions below to program the remote using one of the codes listed on pages 32-34.

- 1** Look up the codes for your brand of accessory device.
- 2** Once you have the codes, **simultaneously** press the **SELECT** and **OK** buttons.
- 3** Press the **NUMBER** button that corresponds to the type of accessory device you are using.
 - Digit 1 = Cable
 - Digit 2 = VCR
 - Digit 3 = DVD
 - Digit 4 = SAT
 - Digit 5 = AMP
- 4** Press the **NUMBERED** button to enter the 4 digit code number from pages 32-34.
- 5** Be sure the remote is in the correct **MODE** (see previous page) and press the **POWER** button. If the accessory device powers ON your finished. If it does not power ON, repeat the procedure with another code listed. If all codes fail, the remote will not control your specific accessory device.

(Example: You have a Cable Box from Archer and want to program the remote. It's code is 0049. Press the **SELECT** and **STANDBY** button simultaneously. Press the **NUMBER 1** for Cable, then enter the listed four digit code; i.e.; 1, 0, 0, 4, 9.)

HELPFUL HINT

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

1 Codes from page 32-34

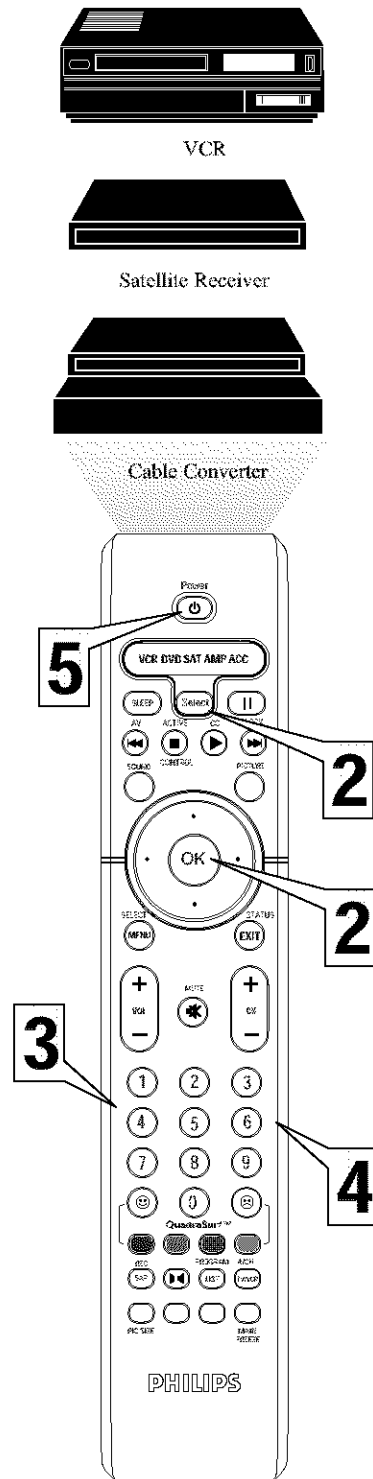
0054

0056

0057

0891

0944





REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES

VCR CODES

Admiral	.2027, 2052	Dynatech	.2001	Kodak	.2015, 2017
Adventura	.2001	Elbe	.2018	Korpel	.2034
Aiko	.2059	Elcotech	.2034	Layco	.2034
Aiwa	.2001, 2017, 2062, 2070, 2072	Electrohome	.2017	Lenco	.2059
Akai	.2021, 2029, 2038, 2060, 2063	Electrohome	.2017	LG	.2079
Akiba	.2034	Emerex	.2012	Lloyd's	.2001, 2051
Alba	.2011, 2034, 2052, 2059, 2063, 2072	Emerson	.2001, 2002, 2017, 2023, 2040, .2046, 2051, 2052, 2059, 2078, 2083	Loewe	.2004, 2005, 2017, 2035
Ambassador	.2011	ESC	.2057, 2059	Logik	.2004, 2034, 2057
American Action	.2059	Ferguson	.2021, 2039, 2064, 2065	Luxor	.2023, 2025, 2027, 2037, 2038
American High	.2015	Fidelity	.2001	LXI	.2017
Amstrad	.2001, 2059, 2067, 2068	Finlandia	.2035, 2037	M Electronic	.2001
Anam	.2017, 2042, .2054, 2057, 2059, 2082, 2084	Finlux	.2001, 2022, 2035, 2037	Magnasonic	.2059
Anam National	.2042, 2054, 2087	Firstline	.2017, 2023, 2024, 2034, 2052	Magnavox	.2001, 2015, 2019, 2035
Anitech	.2034	Fisher	.2025, 2026, 2030, 2037	Magnin	.2057
Asa	.2017, 2035	Frontech	.2011	Manesth	.2024, 2034
Asha	.2057	Fuji	.2015	Marantz	.2003, 2005, 2015, 2035
Asuka	.2017	Funai	.2001	Marta	.2017
Audiovox	.2017	Garrard	.2001	Matsui	.2004, 2016, 2036, 2052, 2070, 2072
Baird	.2001, 2021, 2037, 2039	GE	.2015, 2027, 2032, 2057	Matsushita	.2015, 2042, 2055
Basic Line	.2011, 2034, 2059	GEC	.2035	Mei	.2015
Beaumarck	.2057	General	.2011	Melectronic	.2018
Bell & Howell	.2037	Go Video	.2077, 2081	Memorex	.2001, 2015, 2017, .2019, 2025, 2026, 2027, 2037, .2052, 2057, 2062, 2085, 2087, 2088
Blaupunkt	.2003, 2005, 2010, 2014, .2041, 2042, 2048, 2054, 2055, 2075	Goldhand	.2034	Memphis	.2034
Brandt	.2047, 2064, 2065	Goldstar	.2017, 2018, 2053, 2079	Metz	.2003, 2005, 2017, .2042, 2048, 2055, 2069
Brandt Electronic	.2021	Goodmans	.2001, 2017, 2034, 2059, 2075	MGA	.2023, 2057
Broksonic	.2002, 2040, 2046, 2052, 2078	Gradiente	.2001, 2008	MGN Technology	.2057
Bush	.2034, 2052, 2059, 2072	Graetz	.2005, 2021, 2037, 2057	Minerva	.2048
Calix	.2017	Granada	.2025, 2035, 2037	Minerva	.2005, 2010, 2048
Canon	.2015	Grandin	.2001, 2017, 2034	Minolta	.2022
Capelhart	.2011	Grundig	.2003, 2005, 2007, 2010, 2034, .2035, 2048, 2050, 2054, 2069, 2071, 2075	Mitsubishi	.2023, 2027, 2033, 2035, 2045
Carver	.2035	Hanseatic	.2017	Motorola	.2015, 2027
Catron	.2011	Harley Davidson	.2001	MTC	.2001, 2057
CCE	.2034, 2059	Harman/Kardon	.2018, 2035	Multitech	.2001, 2034
CGE	.2001	Harwood	.2034	Murphy	.2001
Cimline	.2034	HCM	.2034	NAD	.2031
Cineral	.2059	Headquarter	.2025	National	.2054
Citizen	.2017, 2059	Hinari	.2004, 2034, 2057, 2072	NEC	.2018, 2020, 2021, 2033, 2037
Clatronic	.2011	Hi-Q	.2026	Neckermann	.2035
Colt	.2034	Hitachi	.2001, 2004, 2021, 2022, 2043, 2057	Nesco	.2034
Combitech	.2072	Hughes Network Systems	.2022	Nikko	.2017
Condor	.2011	Hypson	.2034	Nikon	.2014
Craig	.2017, 2026, 2034, 2057, 2058	Imperial	.2001	Noblex	.2057
Crown	.2011, 2034, 2059	Ingersol	.2004	Nokia	.2025, 2037, 2038, 2057
Curtis Mathes	.2015, 2021, 2032, 2042	Interfunk	.2035	Nokia	.2021, 2025, 2037, 2038, 2057
Cybernex	.2057	ITT	.2005, 2021, 2025, .2037, 2038, 2057, 2074	Nordmende	.2021, 2061, 2064, 2065, 2074
Cyrus	.2035	ITV	.2017, 2059	Oceanic	.2001, 2021
Daewoo	.2011, 2024, 2025, 2059, 2083	Jensen	.2021	Okano	.2063, 2070
Dansai	.2034	JVC	.2008, 2021, 2033, .2049, 2050, 2074, 2080	Olympus	.2015, 2054
Daytron	.2011	Kaisui	.2034	Optimus	.2017, 2027, 2031, .2037, 2042, 2077, 2086, 2087, 2088
De Graaf	.2022, 2043	KEC	.2017, 2059	Orion	.2002, 2004, 2016, .2036, 2046, 2052, 2070, 2072, 2078
Decca	.2001, 2035	Kendo	.2038, 2052	Osaki	.2001, 2017, 2034
Denon	.2022	Kenwood	.2018, 2021, 2033		
Dual	.2021	KLH	.2034		
Dumont	.2001, 2035, 2037				

REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES



VCR Codes Cont'd

Otto Versand	2035
Palladium	2005, 2017, 2021, 2034
Panasonic	2015, 2042, 2053, 2054, 2055, 2087
Pathe Cinema	2016
Pathe Marconi	2021
Penny	2015, 2017, 2018, 2020, 2022, 2057
Pentax	2022
Perdio	2001
Philco	2015, 2018, 2052, 2078
Philips	2015, 2035 (DEFAULT VCR), 2074, 2075
Phonola	2035
Pilot	2017
Pioneer	2031, 2033, 2035
Portland	2011
Profex	2066
Profitronic	2057
Proline	2001
Proscan	2032
Protec	2034
Pulsar	2019
Pye	2035
Quarter	2025
Quartz	2025
Quasar	2015, 2042, 2087
Quelle	2035
Radio Shack	2001, 2085
Radiola	2035
Radix	2017
RCA	2015, 2022, 2027, 2032, 2038, 2057
Realistic	2001, 2015, 2017, 2025, 2026, 2027, 2037
REX	2021, 2074
RFT	2075
Ricoh	2014
Roadstar	2017, 2034, 2057, 2059
Runco	2019
Saba	2021, 2049, 2050, 2061, 2064, 2065, 2074
Saisho	2004, 2016, 2036, 2052
Salora	2023, 2025, 2038
Samsung	2024, 2057, 2076, 2077
Sanky	2019, 2027
Sansui	2001, 2021, 2033, 2052, 2058, 2078
Sanyo	2025, 2026, 2037, 2057
Saville	2072
SBR	2035
Schaub Lorenz	2001, 2005, 2021, 2037
Schneider	2001, 2034, 2035
Scott	2023, 2024, 2040, 2046
Sears	2001, 2015, 2017, 2022, 2025, 2026, 2037
SEG	2057, 2066
SEI	2004, 2035
Seleco	2021
Semp	2024
Sentra	2011
Sharp	2027, 2073
Shintom	2034, 2037
Shogun	2057
Shorai	2004
Siemens	2003, 2005, 2010, 2017, 2030, 2035, 2037, 2048
Silva	2017
Singer	2024, 2034
Sinudyne	2004, 2035
Solavox	2011
Sonorol	2025
Sontec	2017
Sony	2001, 2012, 2013, 2014, 2015
STS	2022
Sunkai	2070
Sunstar	2001
Suntronic	2001
Sylvania	2001, 2015, 2023, 2035
Symphonic	2001
Tashiko	2001
Tatung	2001, 2021, 2035
Teac	2001, 2021
TEC	2011
Technics	2015, 2042, 2054
Teknika	2001, 2015, 2007, 2017
Teleavia	2021
Telefunken	2021, 2047, 2058, 2064, 2074
Tenosal	2034
Tensai	2001, 2066
Thomas	2001
Thomson	2021, 2064, 2074
Thorn	2016, 2021, 2037
TMK	2051, 2057
Toshiba	2021, 2023, 2024, 2035, 2074
Totelevision	2017, 2057
Towada	2066
Uher	2057
Unitech	2057
Universum	2001, 2006, 2010, 2017, 2035, 2038, 2048, 2057, 2067
Vector	2024
Vector Research	2018, 2020
Victor	2008, 2021, 2033
Video Concepts	2020, 2024
Videosonic	2057
Wards	2001, 2015, 2022, 2026, 2027, 2032, 2034, 2035, 2057
White Westinghouse	2052, 2059
XR-1000	2001
XR-1001	2015
XR-1002	2034
Yamaha	2018
Yamishi	2034
Yokan	2034
Yoko	2011, 2057
Zenith	2001, 2014, 2019, 2052, 2078

DVD Codes

Akai	5316
Harman/Kardon	5314
JVC	5311, 5318
Kenwood	5307
Magnavox	5302
Mitsubishi	5303
Onkyo	5302, 5317, 5319
Panasoni	5301, 5322
Philips	5302, 5308 (DEFAULT DVD)
Pioneer	5305, 5312, 5321
Proscan	5304
RCA	5304
Samsung	5313
Sharp	5320
Sony	5306
Technics	5301
Theta Digital	5312
Thomson	5310
Toshiba	5302
Yamaha	5301, 5309

Cable Box Codes

ABC	3002, 3003, 3004, 3006, 3008
Andover	3037
Bell & Howell	3006
Birmingham Cable Communication	3020
British Telecom	3002, 3012
Cabletime	3016, 3019, 3025, 3029
Clyde	3011
Contec	3009
Cryptovision	3038
Daehan	3043
Daeryung	3003
Decsat	3027
Everquesst	3007
Filmnet	3028
France Telecom	3030
GEC	3011
Gemini	3007
General Instrument	3004, 3020, 3031, 3046
Goldstar	3014, 3047
Grundig	3035
Hitachi	3004
Jasco	3007
Jerrold	3002, 3004, 3005, 3006, 3007, 3020, 3031, 3046
LG Alps	3044
Memorex	3001
Mnet	3009, 3028
Now	3041



REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES

Cable Box Codes

Now	3041
Oak	3009
Pacific	3039
Panasonic	3001, 3013
Paragon	3001
Pioneer	3014, 3036
Pulsar	3001
PVP Stereo Visual Matrix	3002
Quasar	3001
Radio Shack	3007
Rembrandt	3004
Runco	3001
Salora	3026
Samsung	3014, 3040
Satbox	3024
Scientific	3003, 3032, 3049
Scientific Atlanta	3003, 3008, 3021
Seawoo	3045
Signal	3007
Signature	3004
Starcom	3002, 3007
Stargate	3007
Starquest	3007
STS	3015
Taihan	3043
Tele+1	3028
Teleservice	3022
Tocom	3005
Tongkook	3042, 3048
Toshiba	3001
Tudi	3023
Tusa	3007
United Cable	3002
Videoway	3017
Visicable+	3033
Westminster	3012
Wolsey Gene	3037
Zenith	3001, 3034

Satellite Receiver Codes

Absat	4006
Alba	4029, 4034, 4037, 4052
Aldes	4019
Amstrad	4003, 4016, 4025, 4038, 4039, 4042
Ankard	4013, 4019, 4030, 4044
Anttron	4009, 4034
Armstrong	4015
AST	4027
Astra	4005
Astro	4008, 4039, 4045
Avalon	4031
Axis	4030, 4046
Beko	4010
Best	4030

Blaupunkt	4008
Boca	4015, 4043
Brain Wave	4022
British Sky Broadcasting	4058
BT	4053
Bush	4002
Cambridge	4024
Canal Satellite	4059
Canal+	4059
Channel Master	4029
CNT	4045
Comlink	4019
Connexions	4031
Crown	4015
Cyrus	4011
D-Box	4054
DDC	4029
DNT	4011, 4031
Echostar	4031, 4036, 4061
Emanon	4034
Ferguson	4002, 4009, 4010, 4023
Fidelity	4016
Finlux	4005, 4024, 4032, 4037
Fracarro	4061
Freecom	4034
FTE Humax	4060
Fube	4030, 4031, 4034
Galaxis	4019, 4057, 4060
General Instrument	4012
Gold Box	4059
Gooding	4048
Goodmans	4010
Grundig	4008, 4010, 4048
G-sat	4009
Hinari	4009
Hirschmann	4008, 4032, 4039, 4040, 4049
Hitachi	4037
Houston	4053
Huth	4013, 4015, 4019, 4026
Intervision	4050
Invideo	4061
ITT	4005
Johansson	4022
JVC	4048
Kathrein	4004, 4006, 4008, 4011, 4035, 4041
Kreiselmeier	4008
Kyostar	4034
La Sat	4043, 4045
Lenco	4034
Lennox	4050
Lupus	4030
Luxor	4005, 4049
Manhattan	4037, 4045, 4050
Marantz	4011
Maspro	4004, 4023
Matsui	4024, 4048

Mediamarkt	4015
Mediasat	4059
Minerva	4048
Morgan's	4015, 4043
Navex	4022
Neuhaus	4039
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REMOTE CONTROL ACCESSORY DEVICE RELATED BUTTONS



When using the TV remote control with an external accessory device, first make certain the proper mode is selected and the remote has been programmed to control the device (see pages 30-31).

1 Press the **SELECT** button repeatedly to highlight the proper accessory mode (VCR, DVD, SAT, AMP, or ACC).

2 Point the top of the remote toward the front of the accessory device's remote sensor window when pressing buttons.

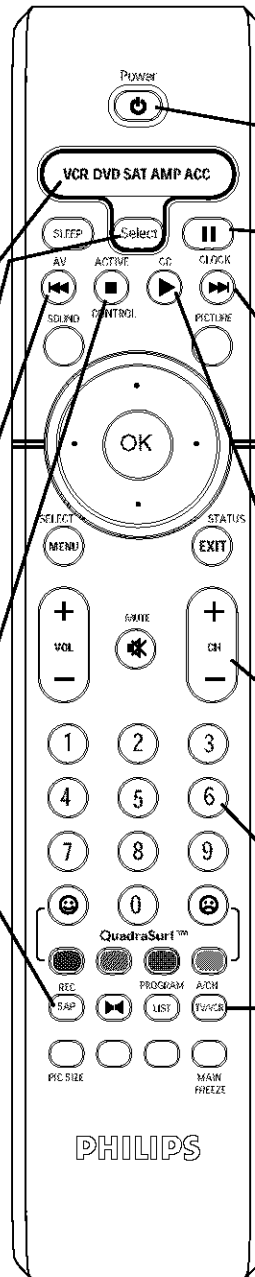
External Accessory Mode Indicator
when the Select button is repeatedly pressed, the indicator will highlight what mode the remote control is in.

Select Button
Press repeatedly to highlight and select one of the accessory modes within the Mode Indicator.

Rewind Button (Fast Reverse) ◀◀
Press to rewind tapes or fast rewind DVD discs. For some accessory devices, the STOP button may have to be pressed first, then REWIND. In playback mode, hold down the button to view the picture moving rapidly in reverse.

Stop Button ■
Press to stop the playback of a tape or disc in playback, rewind, fast forward, and so on.

Record Button
Hold the REC(ord/Sap) and PLAY ▶ buttons down to begin a VCR recording.



Power Button
Press to turn the accessory device ON and OFF.

Pause Button II
Press to temporarily stop the videotape, DVD disc, etc., during a playback or recording. Press again to release Pause.

Fast Forward Button (Wind Forward) ▶▶
Press to rapidly advance a videotape, DVD disc, etc. For some devices, you may need to press the STOP button first, then the FAST FORWARD button. In playback mode, hold the button down to view the picture moving rapidly in the forward direction.

Play Button ▶
Press to begin playback of a videotape or DVD disc, etc.

Channel + and - Buttons
Press to scan up or down through the channel numbers using the external accessory devices tuner (some accessory devices do not have channel tuners).

Number Buttons
Press buttons for the direct selection of external device channels if the unit is equipped with a tuner.

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

HELPFUL HINT

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

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



TROUBLESHOOTING TIPS

No Power

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

No Picture

- Check antenna connections. Are they properly secured to the TV's ANT 75Ω plug?
- Check the TUNER MODE control for the correct tuner setting.
- Try running the Auto Program feature to find all available channels.
- Press the AV button on the remote to make sure the correct signal source is selected (FRONT, AV1, AV2, Current Channel, etc.).

No Sound

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

Remote Does Not Work

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

Remote Does Not Work Continued

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

TV Displays Wrong Channel or No Channels Above 13

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

TV Displays white lines in letterbox when viewing a DVD disc

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



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 marring of the cabinet finish.

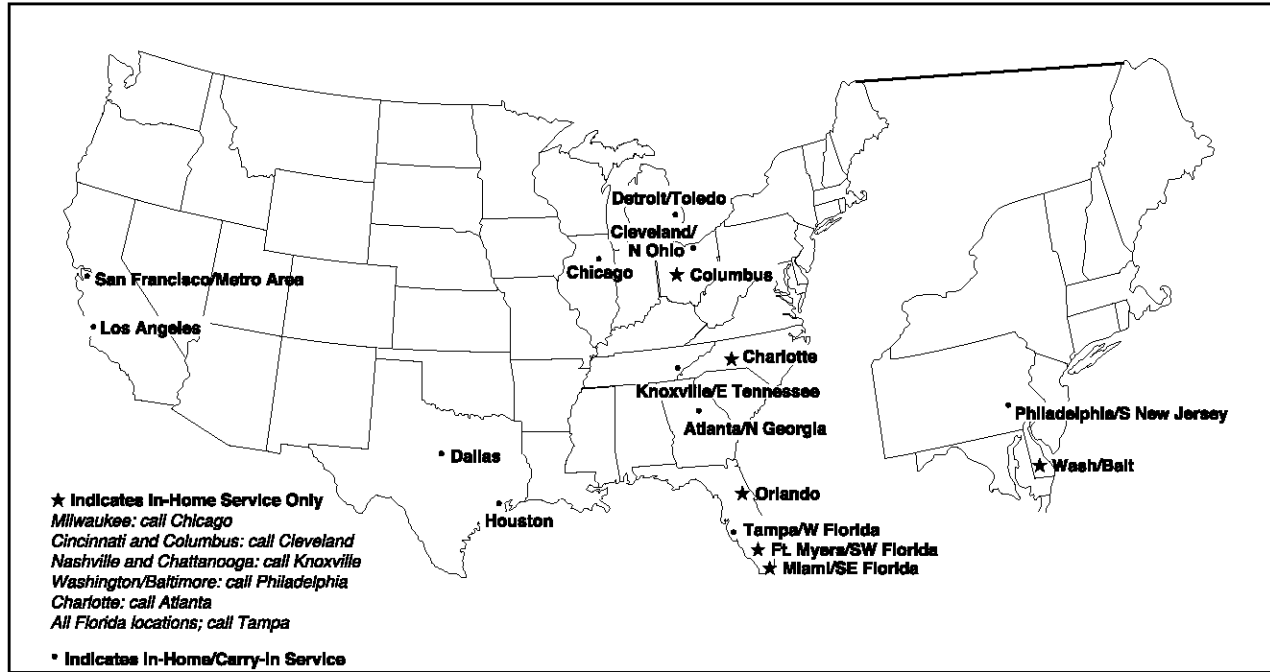
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FACTORY SERVICE LOCATIONS



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

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

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

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product

Please contact Philips at

1-800-661-6162 (French speaking)

1-800-363-7278 (English or Spanish speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile

Veuillez contacter philips à:

1-800-661-6162 (Francophone)

1-800-363-7278 (Anglais ou Espagnol)

En el Canadá

Cómo recibir servicio eficiente para su producto, en persona, por correo o a domicilio

Favor de comunicarse con Philips al:

1-800-661-6162 (francófono)

1-800-363-7278 (Inglés o Español))

FACTORY SERVICE LOCATIONS



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

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

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

ATLANTA

Philips Factory Service
550 Franklin Road., Suite F
Marietta, GA 30067
800-273-1501

TAMPA

Philips Factory Service
1911 US Highway 301 North
Tampa, FL 33619
800-442-2027

SAN FRANCISCO

Philips Factory Service
681 East Brokaw Rd.
San Jose, CA 95112
800-300-9013

HOUSTON

Philips Factory Service
1110 N. Post Oak Rd., Suite 100
Houston, TX 77055
800-952-3254

CLEVELAND

Philips Factory Service
950 Keynote Circle
Brooklyn Heights, OH 44131
800-331-7037

DETROIT

Philips Factory Service
25173 Dequindre
Madison Heights, MI 48071
800-438-1398

DALLAS

Philips Factory Service
415 N. Main Street, #107
Euless, TX 76040
800-952-3254

CHICAGO

Philips Factory Service
1279 W. Hamilton Pkwy.
Itasca, IL 60143
800-531-2922

KNOXVILLE

Philips Factory Service
6700 D Papermill Rd.
Knoxville, TN 37919
800-821-1767

PHILADELPHIA

Philips Factory Service
352 Dunks Ferry Rd.
Bensalem, PA 19020
800-847-9320

LIMITED WARRANTY

COLOR TELEVISION

90 Days Free Labor

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

This product can be repaired in-home.

WHO IS COVERED?

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

WHAT IS COVERED?

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

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

WHAT IS EXCLUDED?

Your warranty does not cover:

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

WHERE IS SERVICE AVAILABLE?

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

MAKE SURE YOU KEEP...

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

BEFORE REQUESTING SERVICE...

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

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

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

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

FOR WARRANTY COVERAGE IN CANADA...

Note: Product Warranty coverage may vary between countries where product is distributed by Philips Consumer Electronics Company. In order to receive full and specific warranty details for products sold and serviced in Canada, please contact Philips at:

1-800-661-6162 (from Canada - French Speaking)

1-800-531-0039 (English and Spanish Speaking)

REMEMBER...

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

MODEL # _____

SERIAL # _____

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

Philips, P.O. Box 520890, Miami, FL 33152, (402) 536-4171