

Rear-projection HDTV Monitor

Your Television's Directions for Use

43PP9202
50PP9202
60PP9202

Product Highlights

- High-definition display—1080i/480p
- High-definition component video and RGB+H/V inputs
- Active Control™
- Eye Fidelity
- APAC™ (Automatic Phosphor Aging Compensation)

Features

- Multipoint digital convergence
- Protective screen filter
- Virtual Dolby® Surround
- Three-line digital comb filter
- Picture-in-picture
- Slim, upscale styling
- Home-cinema universal remote with backlighting



Let's make things better.



PHILIPS

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

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

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

Model Registration

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

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

PHILIPS



Dear PHILIPS product owner:

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

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction. All of this is our way of saying welcome—and thanks for investing in a PHILIPS product.

Sincerely,

Lawrence J. Blanford
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these safety symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.


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

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

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

IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

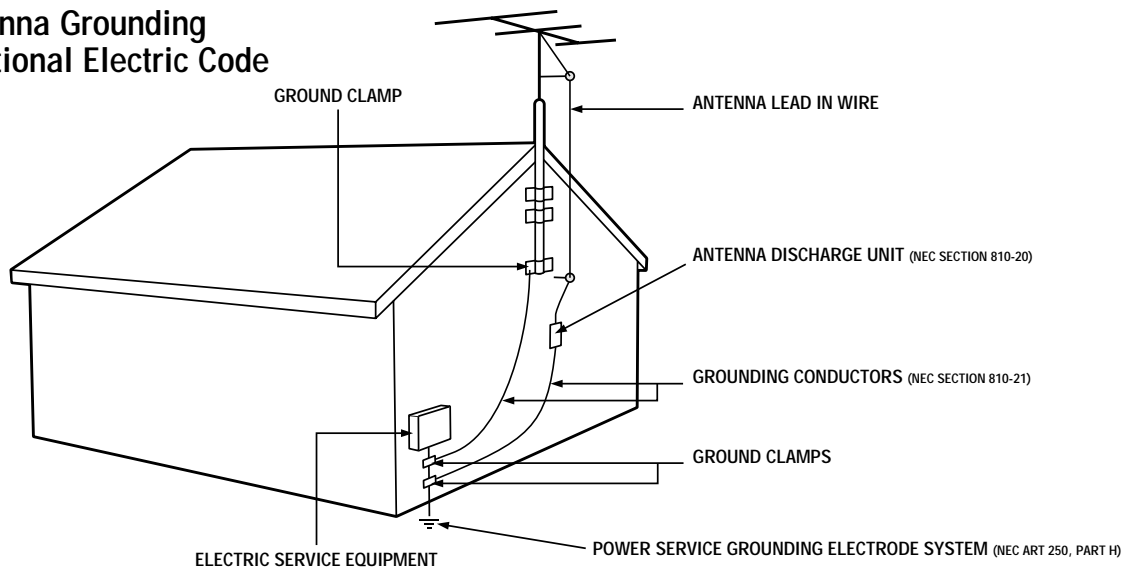
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install 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 ground-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries

Alliance: www.eiae.org

16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

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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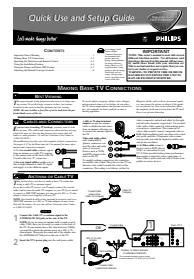
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QUICK USE AND SETUP GUIDE

Refer to the simple *Quick Use and Setup Guide* (supplied with your TV) for details on the following:

- Basic TV connections
- Television and remote-control operation
- Onscreen menu controls
- How to use the installation features.



Items Included with This TV

As you unpack your TV, please note that this *Directions for Use* manual contains safety-tip information and Factory Service Center locations, as well as a Warranty Registration Card, remote control, and batteries for use with the remote control. Please take a few minutes to complete your registration card. The serial number for the TV is on the rear of the set. Refer to the back of this manual for instructions in the cleaning and care of the TV.

FEATURES

Active Control™ continuously measures and corrects all incoming signals to provide the best picture settings. This feature provides a sharp and virtually noise-free picture any time, from any NTSC source. NTSC is the National Television Standards Committee format devised in the 1940s for TV broadcast analog video signals (525 lines: 30 Hz).

Alternate Channel (A/CH) button allows you to switch back and forth between the currently viewed channel and the previously viewed channel.

Automatic Phosphor Aging Compensation (APAC™) works with the set's Automatic Format feature to prevent screen burn left by nonmoving images. Periodically, APAC™ automatically shifts your television picture in very small increments, but in increments large enough to blur image retention. APAC™ is like a screen saver for your TV.

Audio/video jacks allow direct connections with VCRs and other accessories for quality TV picture and sound playback. Component video input jacks are provided for high-fidelity color and picture resolution when using digital video source material, such as a DVD.

Audio Volume Leveler (AVL) control keeps the TV's 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.

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

AutoLock™ protects young children from objectionable programming with V-chip technology.

Automatic Format automatically detects the incoming signal's format and adjusts it to fill the screen. Also, your remote control has a Format button that allows you to select the picture format you want to see.

AutoPicture™ allows you to push a button and adapt your TV's picture to various types of programs, such as sports, movies, and multimedia (games).

AutoSound™ allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound submenu. The three factory-set controls—Voice, Music, and Theatre—enable you to tailor the TV sound to enhance the particular programming you are watching.

AutoSurf™ allows you to easily switch among only the channels that are of interest to you. You can program up to 10 channels into the TV's AutoSurf™ memory through the onscreen display.

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

Closed Captioning allows you to read TV program dialog or voice conversations as onscreen text.

Virtual Dolby® Surround (referred to as DOLBY VIRTUAL in the onscreen submenu) uses two speakers to simulate the surround effect produced by a multichannel system.

Dynamic Contrast helps you sharpen the picture quality by making the contrast between the dark and bright picture areas more noticeable as the image on screen changes.

Eye Fidelity gives you a choice between two different picture-scanning techniques—progressive and interlaced. Progressive scan doubles the number of visible picture lines per field by displaying all picture frame lines at once, eliminating line flicker. The interlaced mode provides for a double vertical display (interlaced) of progressive scan, which reduces annoying motion artifacts. The

interlaced mode also helps smooth out jagged lines sometimes seen on curved and angled surfaces.

High-definition component video inputs allow you to connect High-definition signals to the TV (HD INPUT-AV 4 only). The result is superb color purity, crisp color detail, and reduced color noise. Your set provides separate HD inputs for YPbPr/RGB+H/V. The RGB+H/V input option offers more flexibility in connections.

Hi-fi stereo system, including a built-in audio amplifier and a twin speaker system. The system enables you to hear stereo sound or Second Audio Program (SAP) bilingual broadcasts when they are available.

Home-cinema universal remote control operates your TV set and other devices that work by infrared remote control, such as VCRs, cable converter boxes, satellite receivers, and others. **Note:** You may need to program the remote to work with devices other than the TV. See pages 16–21.

Incredible Surround™ enhances stereo programs by making the sound broader and fuller.

Onscreen menu shows the TV controls and allows you adjust or set those controls (can be viewed in American English, French, or Spanish).

Picture-in-picture (PIP) allows you to monitor one video source while watching another. You can swap the main and secondary pictures, or position the PIP window in any screen corner.

Program List displays a list of your favorite channels at the press of a button. You can scroll through the list, highlight a favorite channel, and tune to the channel.

Protective screen filter helps prevent accidental damage to the delicate front lenticular screen. Anyone with children or pets knows accidents can happen in the home—especially when parents aren't watching. The protective screen filter is specifically formulated by Philips for HD displays to protect your investment while giving the best possible picture.

Sleep Timer automatically turns the TV off after a set amount of time of your choice.

Standard broadcast (VHF/UHF) or cable TV (CATV) channel capability, as well as advanced capability for high-definition video.

Three-line comb filter provides improved chroma/luminance separation to the picture. Offering vertical-edge enhancement and virtually no "dot crawl," this filter easily supports the demands of DVD players and other advanced high-resolution video sources.



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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End-of-life Disposal

Your new projection television and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts that need to be properly disposed. The batteries used by your product should not be thrown away when depleted but should be handed in and disposed of as small chemical waste. Please find out about the local regulations concerning how to dispose of your old television, batteries, and packaging materials whenever it is time to replace them.

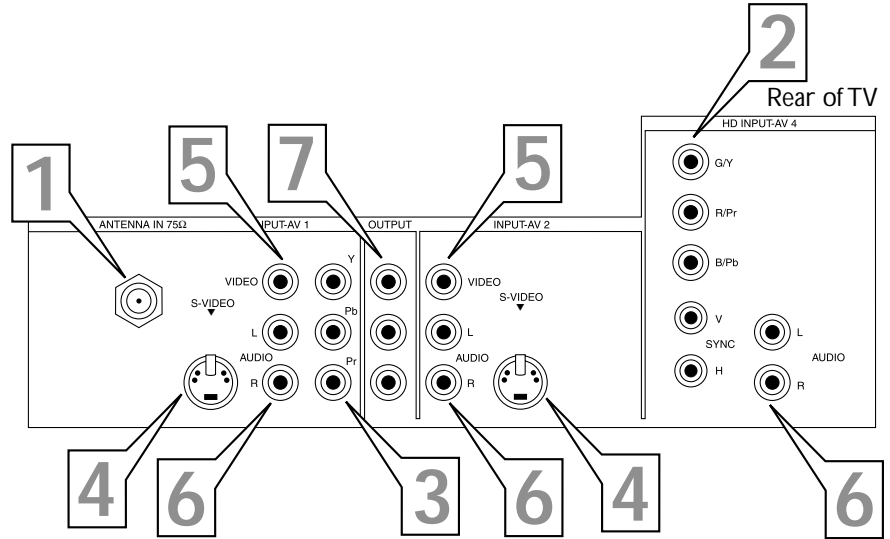


PANEL OVERVIEWS

You can connect a wide range of video and audio devices to your TV, in various ways. The pages that follow contain connection examples. See pages 1 and 2 of the Quick Use and Setup Guide that came with your set for basic connections, and page 6 of that publication for a Picture-in-Picture (PIP) connection example. Also refer to the directions-for-use manual for each accessory device.

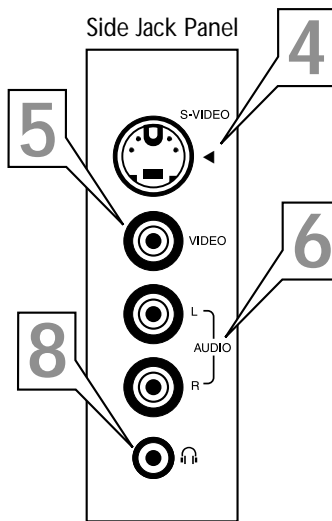
What You Can Connect to the Panel Jacks

- 1 ANTENNA IN 75Ω jack**—use to connect radio-frequency (RF) signals from VHF/UHF antennas or a cable system. These are 480i signals.
- 2 HD INPUT-AV 4**—use to connect digital equipment with a 1080i or a 480p signal output, such as high-definition receivers (1080i or 480p) or DVD players (480p) You can connect equipment with YPbPr component video or RGB outputs to the HD INPUT-AV 4 jacks. H and V Sync connections may or may not be required for RGB connections. (See pages 54 and 56.)
NOTE: HD INPUT-AV4 does not function with the PIP feature.
- 3 YPbPr (component video input [CVI] jacks)**—compatible with 480i signals only. Use to connect accessories having component video outputs, such as DVD players, laser-disc players, video-game players, satellite receivers, or other devices. (See page 54.) Use the INPUT-AV 1 L(ef) and R(ight) AUDIO jacks for sound connections.
- 4 S-VIDEO (super video) jacks**—compatible with 480i signals only. Use to connect accessories having Super VHS (S-VHS) outputs, such as VCRs, DVD players, laser-disc players, video-game players, or other devices.
- 5 VIDEO (composite) jacks (INPUT-AV 1, INPUT-AV 2, and TV's side jack panel)**—compatible with 480i signals only. Use to connect accessories having composite video outputs, such as VCRs, video-game players, or other devices.
- 6 AUDIO inputs (INPUT-AV 1, INPUT-AV 2, and TV's side jack panel)**—use to connect from the audio output jacks on VCRs, DVDs, or other accessories.
- 7 OUTPUT (VIDEO/AUDIO)**—compatible with 480i signals only. Use to connect to a VCR to record programs from the TV. Or use the AUDIO outputs to connect to an audio hi-fi system.
- 8 Headphone jack**—use to connect headphones for personal listening.



Summary of signal compatibilities

Input jacks on TV	Compatible output signal from an external source or device
ANTENNA IN 75Ω, INPUT AV-1, INPUT AV-2, and side jack panel	480i (480 lines, interlaced)
HD INPUT-AV 4	480p (480 lines, progressive scan) or 1080i (1080 lines, interlaced)



NOTE: The TV recognizes the side jack panel as AV3.

HELPFUL HINTS

- Signals connected to the HD INPUT-AV 4 inputs will provide you with the best picture. Examples of sources for such signals are a progressive-scan DVD player (480p) or an HD receiver (1080i or 480p) with YPbPr or RGB outputs. The 1080i signals will provide you with the best picture possible. Devices with RGB outputs may or may not have H and V sync outputs to connect to the HD INPUT-AV 4 H and V SYNC inputs (see page 54). Instructions for selecting the TV's color space (YPbPr or RGB) are on page 56.
- Among the 480i-compatible inputs (ANTENNA IN 75Ω, INPUT AV-1, INPUT AV-2, and the side jack panel [AV3]), you will get the best picture from the component video inputs (labeled YPbPr). The S-Video inputs will provide the next-best level of picture quality.
- The CVI signal source cannot be displayed in the PIP window.

✓ CHECK IT OUT

The side jack-panel inputs are convenient for connecting a camcorder. See page 14.

CONNECTING A VCR



The TV's audio/video (AV) input jacks provide for direct picture and sound connections between the TV and accessory devices such as VCRs, DVD players, and others that have AV output jacks.

This example, which uses the INPUT-AV 1 jacks, shows you one way you can connect a VCR to your TV.

Refer to the directions-for-use manual for your VCR for further information on connections.

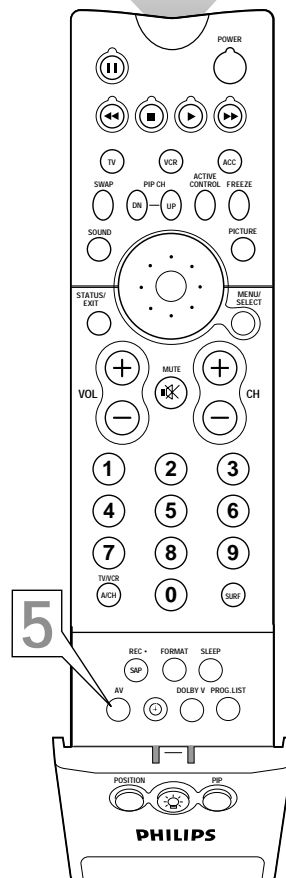
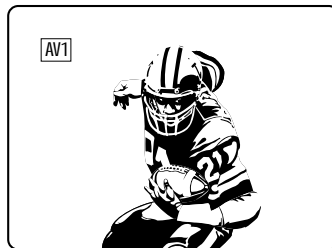
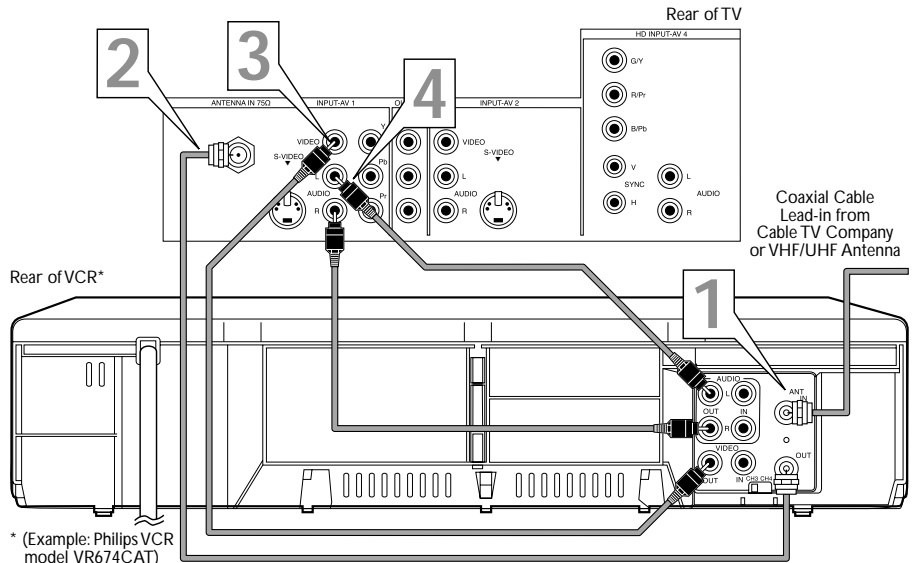
To make the connections shown in this example, you will need:

- one coaxial cable (75Ω)
- one cable for a video connection (standard RCA connector)
- two cables for audio connections (standard RCA connectors) (only one cable is needed for a nonstereo VCR).

NOTE: The cables are not supplied with your TV. You should be able to buy them at most stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039

BEGIN

- 1 Connect a cable TV or antenna signal to the ANT IN jack on the rear of the VCR.
- 2 Connect from the OUT jack on the rear of the VCR to the ANTENNA IN 75Ω jack on the rear of the TV.
- 3 Connect the VIDEO OUT jack on the rear of the VCR to the INPUT AV1 VIDEO jack on the rear of the TV.
- 4 Connect the audio output R(ight) and L(ef)t jacks on the rear of the VCR to the INPUT-AV 1 AUDIO jacks on the rear of the TV.
NOTE: If the VCR is a mono (nonstereo) unit, connect only the left audio cable, which usually has a white connector.
- 5 Press the AV button on the remote control as many times as necessary to select the AV1 source.
- 6 Turn the VCR on and press PLAY to view a videotape on the TV.



HELPFUL HINT

To simplify making connections, audio and video cables often have color-code connectors. The jacks on your TV are likewise color coded to match the connectors. The coding is as follows:

- Yellow for video (composite)
- Red for the right audio channel
- White for the left audio channel

NOTE: If your VCR is mono (nonstereo), you will connect only one audio cable. You must ensure that the TV is set to MONO for the signal source to which you've connected the VCR (INPUT-AV 1, INPUT-AV2, or the side panel inputs [AV3]). Otherwise, you will receive sound from only one of the TV's speakers. See page 34.

✓ CHECK IT OUT

See pages 6 and 7 of the *Quick Use and Setup Guide* for information on using the Picture-in-Picture (PIP) feature. Various PIP connections are possible. The VCR connection option shown in the *Quick Use and Setup Guide* will allow you to use the VCR as a second, dedicated tuner for viewing channels in the PIP window. Also note that the PIP SWAP button on your remote control allows you to switch the main and PIP pictures on screen.



CONNECTING A VCR AND CABLE BOX

Presented here is a connection example involving a VCR and cable box.

Refer to the VCR's directions-for-use manual for further information on connections.

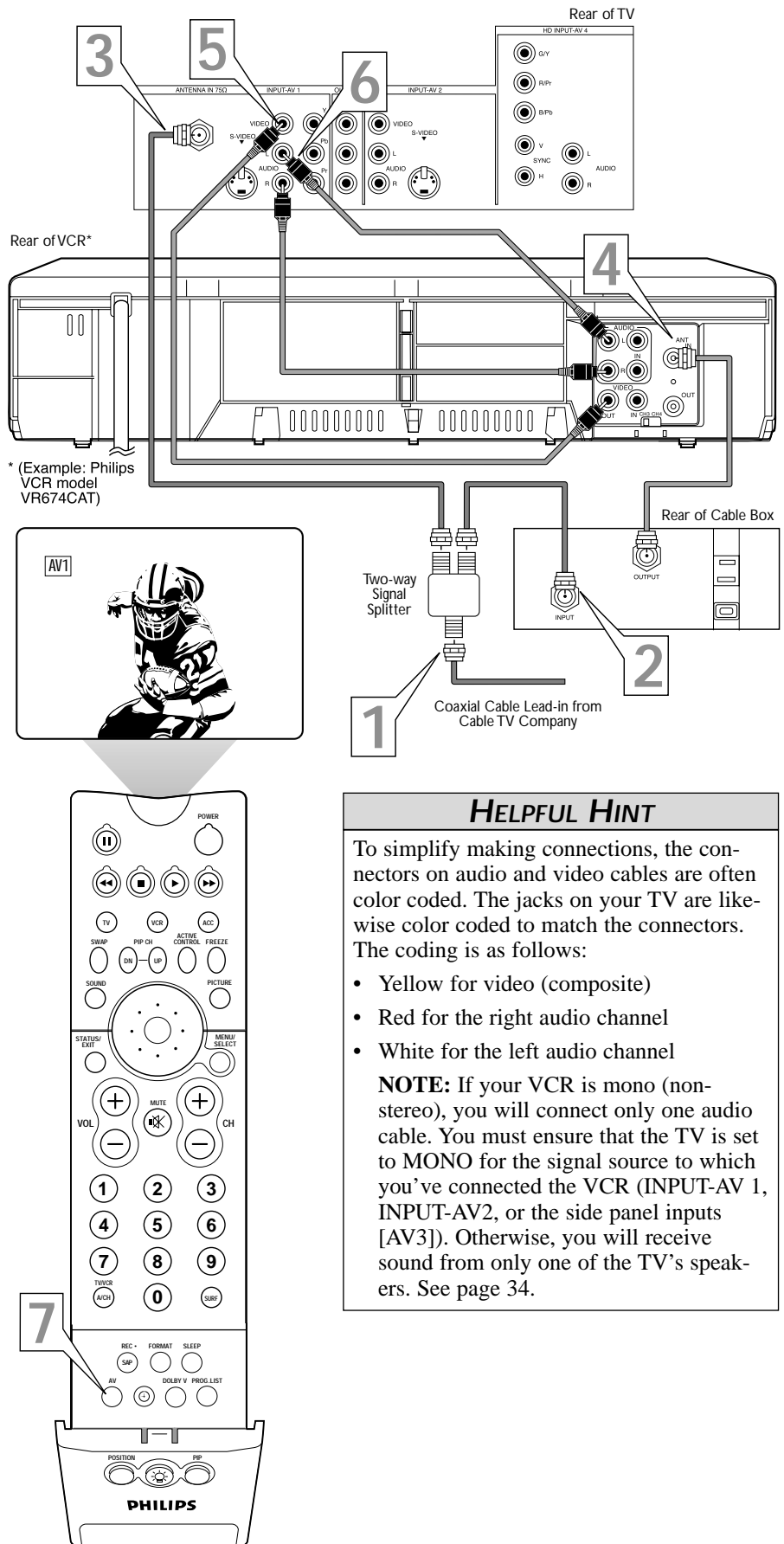
To make the connections in this example, you will need:

- one, two-way signal splitter
- two coaxial cables (75Ω)
- one cable for a video connection (standard RCA connector)
- two cables for audio connections (standard RCA connectors) (only one cable is needed for connection to a nonstereo VCR).

NOTE: The cables are not supplied with your TV. You should be able to buy them at most stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039.

BEGIN

- 1** Connect a cable TV signal to a two-way signal splitter.
 - 2** Connect one of the two-way signal splitter outputs to the INPUT on the cable box.
 - 3** Connect the other two-way signal splitter output to the ANTENNA IN 75Ω on the rear of the TV.
 - 4** Connect from the cable box OUTPUT jack to the ANT IN jack on the rear of the VCR.
 - 5** Connect the VIDEO OUT jack on the VCR to the INPUT-AV 1 VIDEO jack on the rear of the TV.
 - 6** Connect the AUDIO OUT R(right) and L(left) jacks on the VCR to INPUT-AV 1 AUDIO jacks on the rear of the TV.
- NOTE:** If the VCR is a nonstereo unit, connect only the left audio cable, which usually has a white connector.
- 7** Press the AV button on the remote control as many times as necessary to select the AV1 source.
 - 8** Turn the VCR on and push PLAY to view a videotape.



HELPFUL HINT

To simplify making connections, the connectors on audio and video cables are often color coded. The jacks on your TV are likewise color coded to match the connectors. The coding is as follows:

- Yellow for video (composite)
- Red for the right audio channel
- White for the left audio channel

NOTE: If your VCR is mono (non-stereo), you will connect only one audio cable. You must ensure that the TV is set to MONO for the signal source to which you've connected the VCR (INPUT-AV 1, INPUT-AV2, or the side panel inputs [AV3]). Otherwise, you will receive sound from only one of the TV's speakers. See page 34.

CONNECTING AND USING AN AUDIO HI-FI SYSTEM WITH YOUR TV



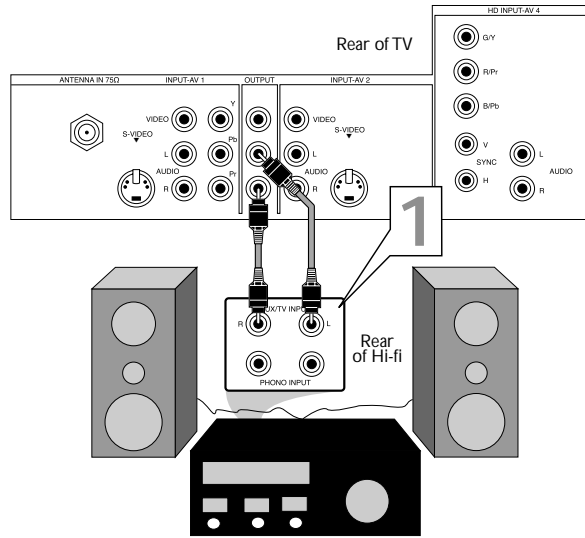
You can use your TV's AUDIO OUTPUT jacks to connect to an external audio hi-fi system. Follow the simple steps below.

To make these connections, you will need two cables for audio connections (standard RCA).

NOTE: The cables are not supplied with your TV. You should be able to buy them at most stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039.

BEGIN

- 1 **Connect from the L(ef) and R(ight) AUDIO OUTPUT jacks** on the rear of the TV to the L(ef) and R(ight) AUX/TV INPUT jacks on the rear of the hi-fi system.
- 2 **See the section below** on using the AUDIO OUT control.



After connecting the TV's AUDIO OUTPUT jacks to the AUDIO INPUT jacks on an external hi-fi system, set the AUDIO OUT control in the SOUND submenu to either VARIABLE or FIXED to determine whether you adjust the volume at the TV or at the external hi-fi system. To change the volume at the TV using the TV's remote control, you must select VARIABLE. To adjust the volume at the stereo using the hi-fi's controls, you must select FIXED. You can also use the SPEAKERS control in the SOUND submenu to turn the TV's speakers off.

BEGIN

- 1 **Press the MENU/SELECT button** on the remote control to show the onscreen menu.
- 2 **Press the CURSOR RING DOWN** once to highlight SOUND.
- 3 **Press the CURSOR RING RIGHT** to enter the SOUND submenu.
- 4 **Press the CURSOR RING DOWN** repeatedly until AUDIO OUT is highlighted.
- 5 **Press the CURSOR RING LEFT or RIGHT** to set the AUDIO OUT to either VARIABLE or FIXED.
- 6 **If you want to turn the TV's internal speakers off, press the CURSOR RING DOWN** repeatedly until SPEAKERS is highlighted. Then press the CURSOR RING LEFT or RIGHT to turn the speakers off.
- 7 **Press the STATUS/EXIT button** to exit the menu.



- PICTURE
- **SOUND**
- FEATURES
- INSTALL

TREBLE
BASS
BALANCE
AVL
INCR·SURROUND

SOUND

◀ TREBLE ▶ 30

- BASS
- BALANCE
- AVL
- INCR·SURROUND

SOUND

- INCR·SURROUND
- HEADPHONE
- STEREO
- SAP
- ◀ **AUDIO OUT** ▶ FIXED

OR

◀ AUDIO OUT ▶ VARIABLE

SOUND

- HEADPHONE
- STEREO
- SAP
- AUDIO OUT
- ◀ **SPEAKERS** ▶ OFF

OR

◀ SPEAKERS ▶ ON

HELPFUL HINT

The sound outputs from the TV to an external hi-fi system are not affected or tailored by the TREBLE, BASS, BALANCE, AVL, INCR. SURROUND, and BASS BOOST controls in the TV's SOUND submenu.



CONNECTING A STANDARD DVD PLAYER

Component video inputs allow the highest possible color and picture resolution in the playback of digital signals, such as those of DVD players. The color difference signals (Pb, Pr) and the luminance (Y) signal are connected and received separately. The result is better color bandwidth information than is possible with composite video (labeled VIDEO on your TV's jack panel) or S-Video connections.

To make the connections shown in this example, you will need:

- three cables for video connections (standard RCA connectors)
- two cables for audio connections (standard RCA connectors).

NOTE: The cables are not supplied with your TV. You should be able to buy them at most stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039.

BEGIN

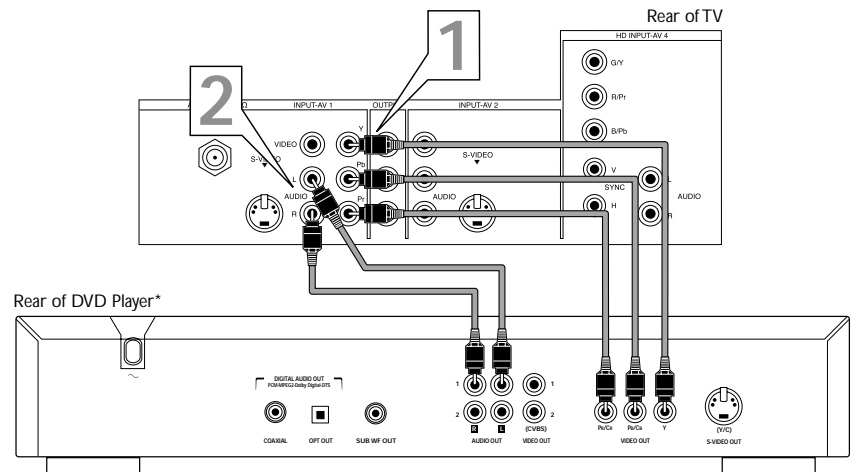
1 Connect the YPbPr (component) VIDEO OUT jacks from the DVD player to the INPUT-AV 1 YPbPr (component video) jacks on the rear of the TV.

NOTE: The INPUT-AV 1 YPbPr jacks will accept 480i (interlaced) output signals only. The connection example on this page assumes the use of a DVD player with interlaced output. Some DVD players, however, have YPbPr outputs that can be switched between interlaced and progressive scan. If you are attempting to use a DVD player with progressive-scan (480p output) capability to make the connection shown in this example, you must be sure to switch the DVD player to interlaced. If necessary, refer to the DVD player's directions-for-use manual for help. If you want to use the DVD player in progressive-scan mode, you must use the HD INPUT-AV 4 jacks (see page 11).

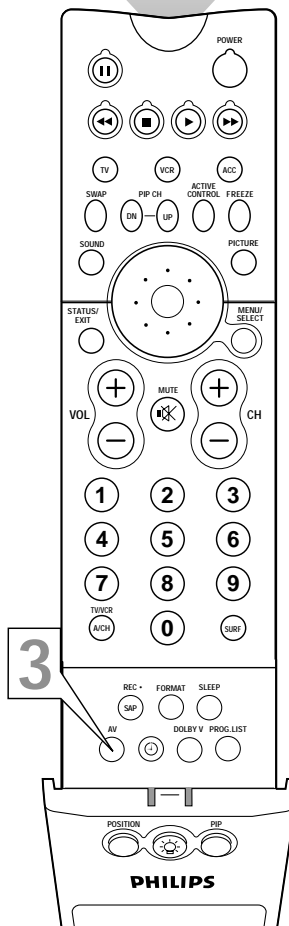
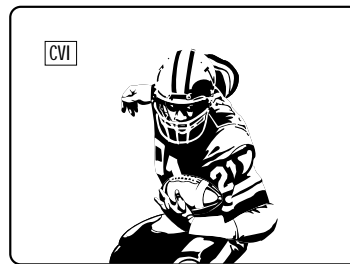
2 Connect the AUDIO OUT L(ef) and R(ight) jacks from the DVD player to the INPUT-AV 1 AUDIO jacks on the rear of the TV.

3 Press the AV button on the remote control as many times as necessary to select the CVI (component video input) source on the TV.

4 Turn the DVD player on and press PLAY to view the DVD program on the TV.



*(Example: Philips DVD model DVD712)



HELPFUL HINTS

- To simplify making connections, the connectors on audio and video cables are often color coded. The jacks on your TV are likewise color coded to match the connectors. The coding is as follows:
 - Green for component video Y
 - Blue for the component video Pb
 - Red for the component video Pr
 - Red for the right audio channel
 - White for the left audio channel.
- The names for the component video jacks may differ depending on the DVD player or accessory digital source equipment used. For example, besides YPbPr, you may see R-Y/B-Y/Y; or CrCbY. Although abbreviations and terms may vary, the letters *B* and *R* stand for the blue and red color component signal connectors, respectively, and *Y* indicates the luminance signal. If necessary, refer to the directions-for-use manual for your DVD or digital accessory for more information.
- You can also connect a satellite receiver to the TV in a manner similar to the example shown on this page. If you connect a satellite receiver to the TV, you will need to use the receiver's channel-memorization system to store channels in the receiver's memory.
- If you experience difficulties receiving sound with a DVD disc, check the sound settings through the DVD disc's menu.
- The CVI signal source cannot be displayed in the PIP window.

WARNING

To prevent uneven picture-tube aging, do not leave nonmoving images or black borders on the screen for an extended period. See page 57.

CONNECTING A DVD PLAYER WITH PROGRESSIVE-SCAN CAPABILITY



The following instructions explain how to connect a DVD player with progressive-scan capability to the HD INPUT-AV 4 jacks on your TV.

To make the connections, you will need:

- three cables for video connections (standard RCA connectors)
- two cables for audio connections (standard RCA connectors).

NOTE: The cables are not supplied with your TV. You should be able to buy them at most stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039.

BEGIN

- 1** Connect from the YPrPb jacks on the rear of the DVD player to the HD INPUT-AV 4 G/Y, R/Pr, B/Pb jacks on the rear of the TV.
- 2** Connect from the L(left) and R(right) AUDIO OUT jacks on the rear of the DVD player to the HD INPUT-AV 4 AUDIO L(left) and R(right) jacks on the rear of the TV.
- 3** Make sure the DVD player is in progressive-scan mode. You will not get a viewable picture through the HD INPUT-AV 4 jacks if the DVD player is in interlaced mode.
For more information on placing your DVD player in progressive-scan mode, see the DVD player's directions-for-use manual. Also, see the Helpful Hints to the right. The way in which progressive-scan mode is selected varies among DVD players.
- 4** Press the AV button on your TV remote control as many times as necessary to select the AV4 signal source.
- 5** Turn the DVD on, insert a disc, and press play to view a DVD on the TV.

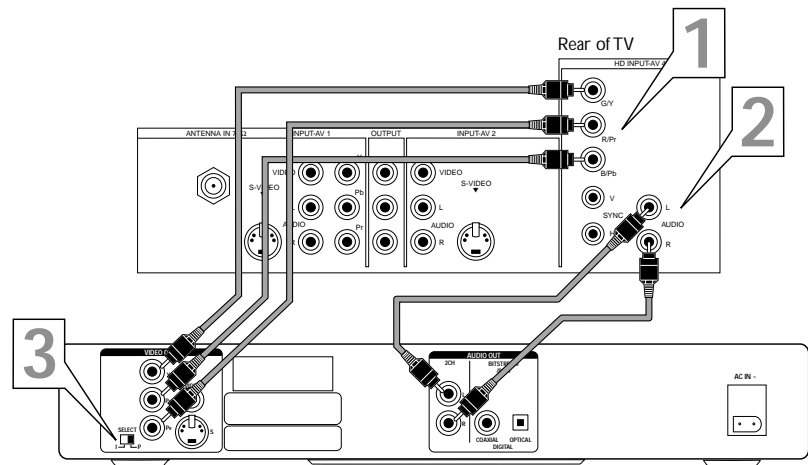


HELPFUL HINT

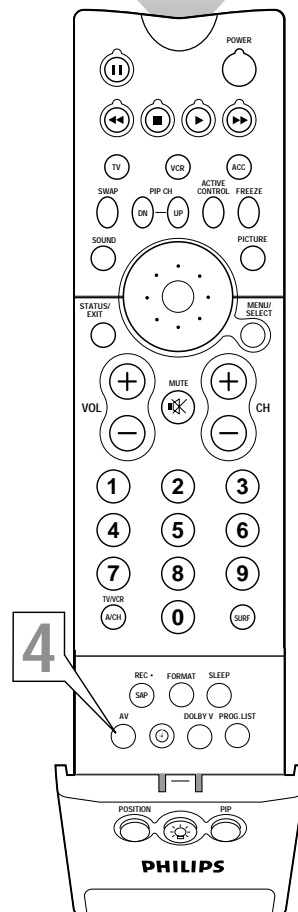
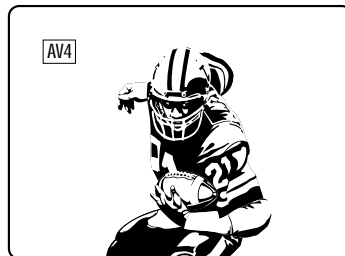
If you experience difficulties receiving sound with a DVD disc, check the sound settings through the DVD disc's menu.

WARNING

To prevent uneven picture-tube aging, do not leave nonmoving images or black borders on the screen for an extended period. See page 57.



Rear of DVD Player with Progressive-scan Capability



HELPFUL HINTS

- If after connecting your DVD player your display is filled with wavy lines, it may be that your DVD player is not set to progressive-scan mode. Some DVD players have an I/P (interlaced/progressive scan) switch located on the back or front of the players for changing from interlaced to progressive-scan mode. Other DVD players may allow the mode to be changed by pressing a button on the DVD player's remote control or by using the DVD player's onscreen menu. **If the interlaced/progressive-scan selection option is provided only through the DVD onscreen menu, you will need to connect the DVD player to another AV input source in addition to HD INPUT-AV 4 to see the DVD menu. Select this additional AV source on screen to see the DVD menu and choose progressive-scan mode. You will then be able to see the DVD picture through the AV4 source.**
- Some DVD players have dedicated progressive-scan output jacks that are labeled as such and require no switching to provide a picture through the HD INPUT-AV 4 jacks. See your DVD player's directions-for-use manual for information.
- The default color-space setting for the HD INPUT-AV 4 jacks is YPbPr. RGB is also an option. If the picture's color looks grossly incorrect, try changing either the DVD player's or TV's color-space setting. See the DVD player's directions-for-use manual for information on setting its color space. Or see page 56 in this manual for setting the TV's color space.
- The Picture-in-Picture (PIP) feature does not function with HD INPUT-AV 4.



CONNECTING AN S-VIDEO DEVICE

The S(uper)-Video connection on the rear (and side panel) of the TV can give you better picture detail and clarity for the playback of S-VHS VCR tapes or DVDs than the normal antenna (RF signal) or Video (composite) picture connections. The example given connects a DVD/VCR Combi unit to the INPUT-AV 2 jacks on the rear of the TV.

NOTE: The accessory device must have an S-VIDEO output jack to make the connection explained on this page.

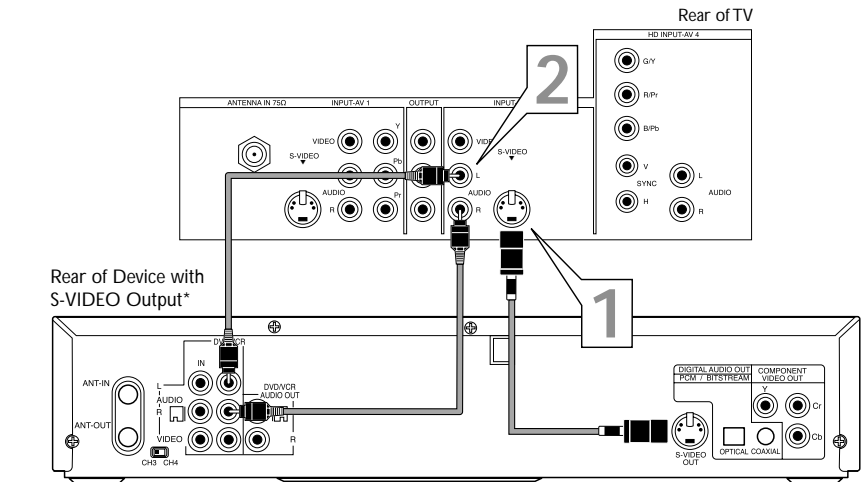
To make the connections, you will need:

- one S-Video cable
- two cables for audio connections (standard RCA connectors).

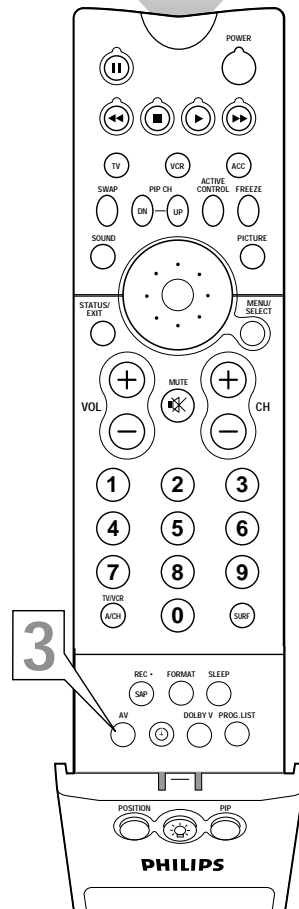
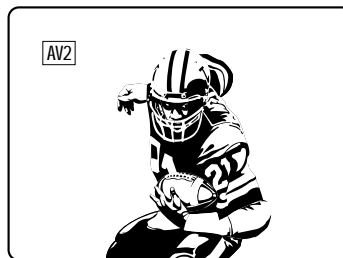
NOTE: The cables are not supplied with your TV. You should be able to buy them at most stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039.

BEGIN

- 1 **Connect the S-VIDEO OUT jack** on the rear of the accessory device with S-VIDEO output to the INPUT-AV 2 S-VIDEO jack on the rear of the TV.
- 2 **Connect the DVD/VCR AUDIO OUT jacks** on the rear of the accessory device to the INPUT-AV 2 AUDIO input jacks on the rear of the TV.
- 3 **Press the AV button on the remote control as many times as necessary** to select the AV2 source on the TV.
- 4 **Turn the accessory device on and press play to view the video source material** (DVD or videotape, for example) on the TV.



*(Example: Philips DVD/VCR Combi model DV910VHS)



HELPFUL HINTS

- To simplify making connections, audio cables are often color coded: red for the right channel, and white for the left channel. The jacks on your TV are likewise color coded to match the connectors. To make S-Video connections, you must use an S-Video cable.
- You can also connect a satellite receiver, laser-disc player, video-game player, or other accessory device with S-Video capability to the TV in a manner similar to example shown on this page.
- If you connect a satellite receiver to the TV, you will need to use the receiver's channel-memorization system to store channels in the receiver's memory.

WARNING

Video sources that show a constant nonmoving pattern on the TV screen can cause picture-tube damage. When you are not using your video accessory devices, turn them off. Also, regularly alternate the use of accessory video sources with normal TV viewing. See page 57.

CONNECTING AN HD RECEIVER



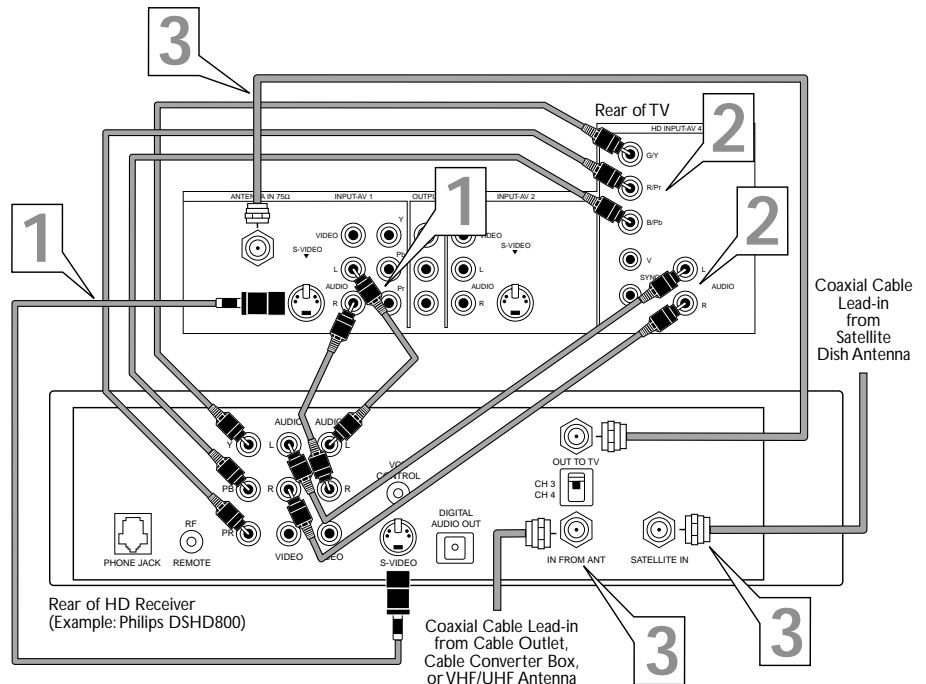
This example shows you how you may connect an HD receiver to the TV. See the receiver's directions-for-use manual for more information.

NOTE: The HD INPUT-AV 4 jacks are designed to accept high-definition signal standards 1080i and 480p as specified by the Electronic Industries Association standard EIA770.3. Because output standards may vary by manufacturer, you may encounter some digital equipment that will not properly display pictures on the TV.

To make the connections shown in this example, you will need:

- one S-VIDEO cable
- three cables for video connections (standard RCA connectors)
- four cables for audio connections (standard RCA connectors)
- one coaxial cable (75Ω).

NOTE: The cables are not supplied with your TV. You should be able to buy them at most stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039.



BEGIN

- 1 Connect S-VIDEO and audio cables.**
NOTE: This example uses INPUT-AV 1. You can use INPUT-AV 2 or the side input jacks if you want.

 - Connect an S-VIDEO cable from the HD receiver's S-VIDEO jack to the TV's INPUT-AV 1 S-VIDEO jack.
 - Connect from the HD receiver's AUDIO L(left) and R(right) jacks to the TV's INPUT-AV 1 L(left) and R(right) AUDIO jacks.
- 2 Connect component video and audio cables to the TV's HD inputs.**

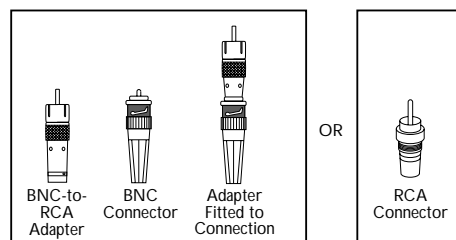
 - Connect from the YPRPB jacks on the HD receiver to the TV's HD INPUT-AV 4 G/Y, R/Pb, B/Pb jacks.
 - Connect from the HD receiver's AUDIO L(left) and R(right) jacks to the TV's HD INPUT-AV 4 L(left) and R(right) AUDIO jacks.
- 3 Connect coaxial cables.**

 - Connect the coaxial cable lead-in from your cable outlet, cable converter box, or VHF/UHF antenna to the IN FROM ANT jack on the HD receiver.
 - Connect a coaxial cable from the OUT TO TV jack to the ANTENNA IN 75Ω jack on the TV.
 - Connect the coaxial cable lead-in from a satellite dish antenna to the SATELLITE IN jack on the HD receiver.
- 4 Refer to the directions-for-use manual that came with the HD receiver for setup instructions.**



HELPFUL HINTS

- Making a standard connection along with the HD connection as shown in the example (S-VIDEO) on this page will allow you to see the receiver's onscreen menu and a picture (valid signal) from the receiver should it be switched to standard-definition mode.
- The HD INPUT-AV 4 jacks are for standard RCA connectors. Your HD receiver may use RCA or BNC output jacks. If your HD receiver comes with BNC jacks, you will need to purchase BNC-to-RCA adapters to connect the receiver to the TV. You should be able to purchase these adapters at stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039.



- The HD INPUT-AV 4 jacks are compatible with some digital equipment having RGB outputs with "sync on green" or RGB with "separate H and V sync." Output standards for digital equipment, however, may vary by manufacturer. No industry standards have been established for HD television RGB signal systems, timing, synchronization, and signal strengths. If the digital equipment you want to connect to your TV offers both component video and RGB outputs, component video is the suggested connection to use.
- The default color-space setting for the HD INPUT-AV 4 jacks is YPbPr. RGB is also an option. If the picture's color looks grossly incorrect, try changing either the HD receiver's or TV's color-space setting. See the receiver's directions-for-use manual for information on setting its color space. Or see page 56 in this manual for setting the TV's color space.
- The Picture-in-Picture feature does not function with the HD INPUT-AV 4 signal source. AV4 cannot be accessed in the PIP window, nor can the PIP window be accessed when AV4 is being viewed on the main screen.



CONNECTING A CAMCORDER

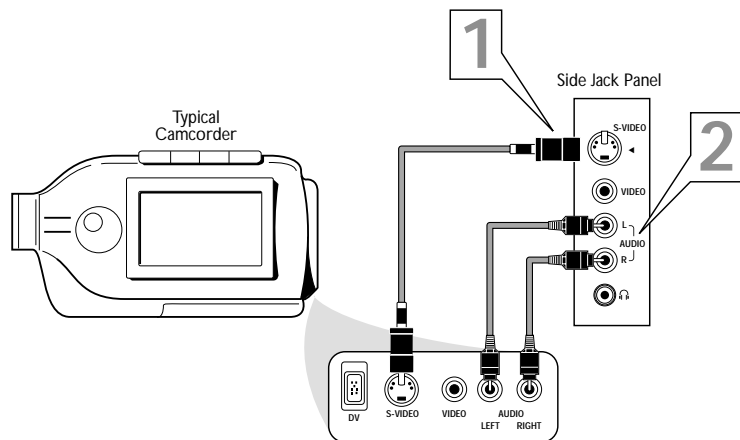
The side panel jacks provide a convenient way for you to connect a camcorder to your TV. The side panel jacks are recognized by your TV as AV3.

You can obtain S-VIDEO quality with an S-VHS, Hi-8, or digital camcorder by connecting to the S-VIDEO input instead of the VIDEO (composite) input.

To make the connections shown in this example, you will need:

- one S-VIDEO cable
- two cables for audio connections (standard RCA connectors).

NOTE: The cables are not supplied with your TV. You should be able to buy them at most stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039.



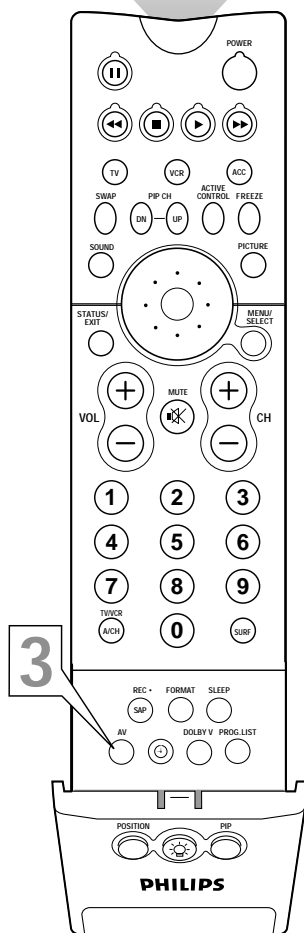
BEGIN

- 1 Connect from the S-VIDEO output** on the camcorder to the S-VIDEO input in the TV's side panel (recognized by the TV as AV3).
- 2 Connect from the AUDIO outputs on the camcorder** to the side panel AUDIO L(ef) and R(ight) inputs.
- 3 Press the AV button on the remote control** as many times as necessary to select the AV3 source on the TV.
- 4 Turn the camcorder on, insert a videotape and press PLAY** to view the tape on the TV.



HELPFUL HINT

To simplify making connections, the connectors on audio cables are often color coded: red for the right channel, and white for the left channel. The jacks on your TV are likewise color coded to match the connectors. To make S-Video connections, you must use an S-Video cable.



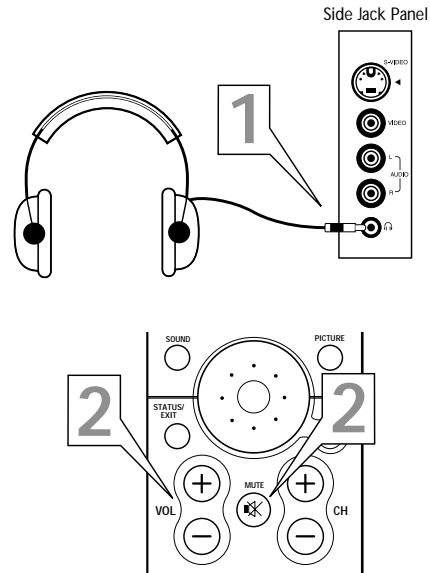
CONNECTING AND USING HEADPHONES WITH YOUR TV



The TV's side panel has a headphone jack for personal listening.

BEGIN

- 1** Insert the **headphone plug** into the headphone jack in the TV's side panel.
 - 2** Turn down the TV's volume or press the **Mute button** on the remote control to turn off the TV's internal speakers. See the section below for information on adjusting headphone volume and balance.
- NOTE:** The headphone impedance must be between 8 and 4,000 ohms. The headphone jack is stereo and 3.5 mm in size.



The HEADPHONE controls allow you to adjust the volume and balance of the sound going to the headphones.

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** once to highlight **SOUND**.
- 3** Press the **CURSOR RING RIGHT** to enter the **SOUND** submenu.
- 4** Press the **CURSOR RING DOWN** repeatedly until **HEADPHONE** is highlighted. Then press the **CURSOR RING RIGHT** to enter the **HEADPHONE** submenu.
- 5** Press the **CURSOR RING DOWN** or **UP** to highlight **VOLUME** or **BALANCE**. Then press the **CURSOR RING LEFT** or **RIGHT** to adjust the control.
- 6** Press the **STATUS/EXIT** button to exit the menu.



HELPFUL HINT
The AVL, INCR. SURROUND, and BASS BOOST controls do not function with the headphones.

PROGRAMMING THE TV REMOTE TO WORK WITH ACCESSORY DEVICES

Your TV remote is capable of working not only your TV but also other infrared remote (IR) controlled devices such as VCRs, cable TV converter boxes, satellite receivers, DVD players, and laser-disc players.

If you want to use your TV remote to operate a VCR or other accessory device, you will need to perform this initial check explained in this section. You may also need to go to the sections on the "Code-entry Method" and the "Search Method" in the pages that follow.

BEGIN

- 1 Press the **VCR or ACC(essory) mode button** on the TV remote for the desired accessory device category.

NOTE: Pressing the VCR mode button allows access to product codes for VCRs. Pressing the ACC(essory) mode button allows access to the product codes for cable TV converters, satellite receivers, DVD players, and laser-disc players.

- 2 Point the TV remote toward the desired accessory device and press the **POWER** button.

Does the remote turn the accessory device on?

If yes, **STOP** and try other function buttons on the TV remote. With a VCR, for example, try the Play, Stop, and Rewind buttons, for example. (See page 21 for information on how the remote buttons correspond with accessory device functions.) If they also work the accessory device, then the remote is ready and no further steps are needed.

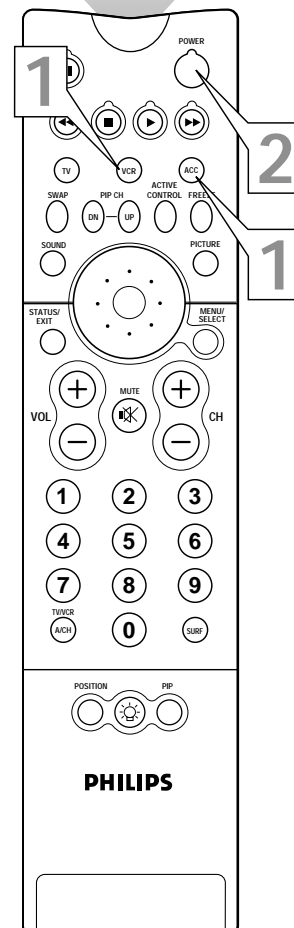
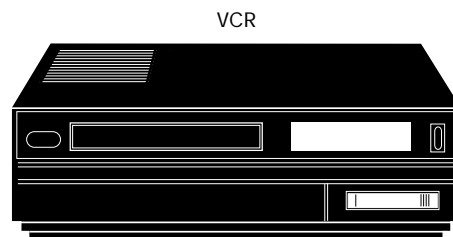
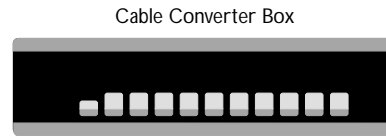
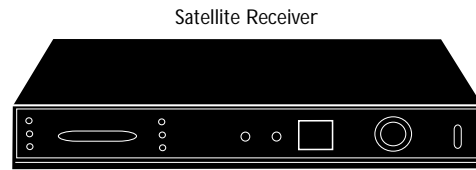
If not, do the following:

Look up a four-digit remote code number on pages 19 or 20 for your brand of accessory device. Then go through the simple steps for entering a four-digit code as explained on page 17.



HELPFUL HINT

If more than one four-digit code number is listed, you may have to try more than the first number given to locate your device's correct code.



USING THE CODE-ENTRY METHOD TO PROGRAM YOUR TV REMOTE



Now that you have looked up the four-digit remote-control Direct-entry Code for your brand of accessory device, you are ready to follow the simple steps shown below to program your TV remote.

Please read through all the steps before beginning.

BEGIN

1 First, press and hold down the VCR or ACC (for an accessory device other than a VCR) mode button on the TV remote. Then press and hold down the MENU/SELECT button at the same time for a brief moment. Release the buttons. The TV remote back light will switch on.

NOTE: For correct operation, you must first press and hold the mode button and then press and hold the MENU/SELECT button simultaneously.

2 Within 30 seconds of pressing the VCR (or ACC) button and MENU/SELECT button, enter a four-digit code for the accessory device (see pages 19 and 20).

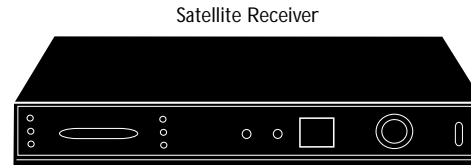
If you make a mistake while attempting to enter the four-digit code and want to start again, press any button other than one with a number. Then return to step 1 to begin again.

3 Point the remote at the accessory device. Then press the POWER button on the remote to turn the device on.

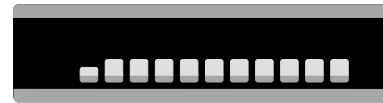


HELPFUL HINTS

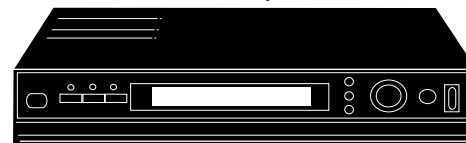
- If you do not enter a complete code within 30 seconds, you will need to perform step 1 of the Code-entry Method again.
- If you enter more than four digits, the unit will retain the first four digits entered.
- If the procedure explained above does not work the first time, repeat the steps using the same remote code number.
- If after a second try the remote does not operate your accessory device, and more code numbers are listed for your brand, use the next listed code number.
- If after repeated attempts the Code-entry Method does not allow you to work your accessory device with your TV remote, try the Search Method explained on the next page.



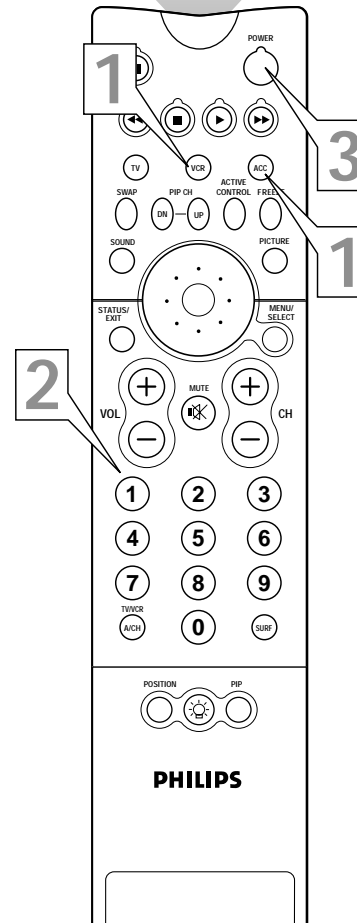
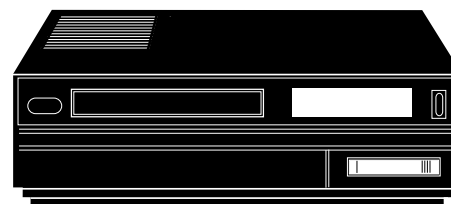
Satellite Receiver



Cable Converter Box



DVD Player



USING THE SEARCH METHOD TO PROGRAM YOUR TV REMOTE

Your TV remote can be set to work various accessory devices (VCRs, cable converters, and satellite receivers, for example) by what is called the Search Method.

NOTE: The Search Method works only with devices equipped with channel-display indicators on the devices themselves or the ability to show channel numbers on the TV screen. If the Code-entry Method (shown in the previous section) did not enable your TV remote to work your accessory device, then follow the easy steps listed below. Please read the steps once before performing them.

BEGIN

1 Turn on the desired device. Press and hold down the VCR or ACC (for an accessory device other than a VCR) mode button on the TV remote. Then press and hold down the SURF button as you hold down the desired mode (VCR or ACC) button.

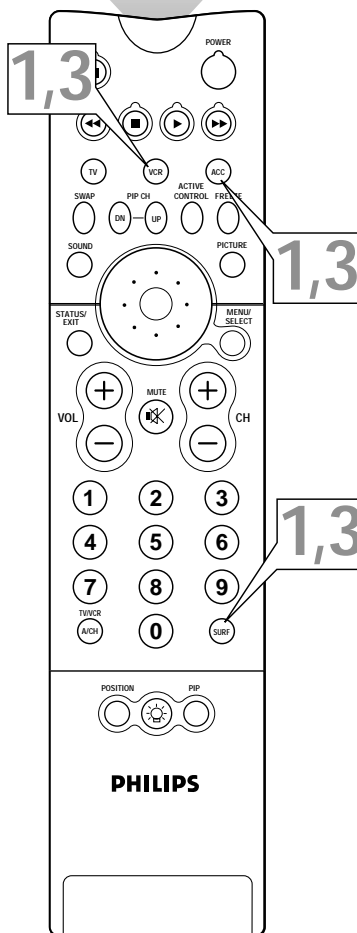
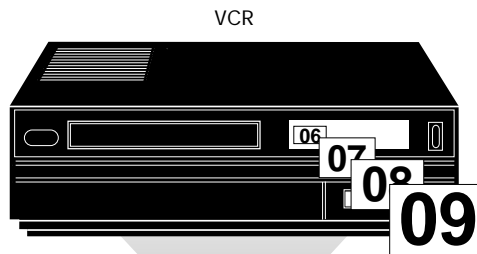
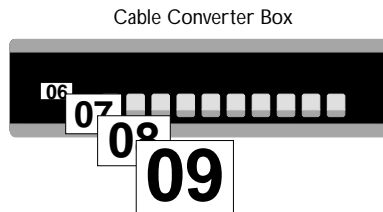
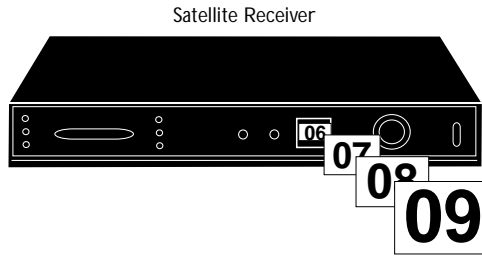
NOTE: For correct operation, you must press and hold down the desired mode (VCR or ACC) button first and then press and hold down the SURF button second.

While holding down the SURF and the desired mode (VCR or ACC) buttons simultaneously, point the remote toward the accessory device and continue holding the buttons down.

2 Watch the Channel Indicator on your accessory device. Channel numbers will scan up when the TV remote has identified the correct code for your accessory device. This may take several minutes.

3 Release the mode (VCR or ACC) and SURF buttons as soon as channel numbers start to scan up. The scanning means that your TV remote has found the code for your accessory device.

NOTE: If no channel change happens after several minutes, repeat steps 1 and 2. Then if a channel change still does not occur, the remote will not work with the desired accessory device.



HELPFUL HINTS

- The remote's back light will blink as the remote moves through its product code list. After the remote identifies the product code for your accessory device and you release the remote buttons, the back light will blink twice.
- Your TV remote may locate the accessory device's code quickly or within several minutes.
- Don't let the accessory device scan up more than five channels when the correct code is found—the remote may pass up the right code and have to repeat the search cycle.

DIRECT-ENTRY CODES FOR A/V ACCESSORY DEVICES



VCR

	CODE NUMBER				
ADMIRAL	.0075, 0236	JENSEN	.0068	QUARTZ	.0073
ADVENTURA	.0027	KEC	.0064, 0305	QUASAR	.0062, 0189, 0104, 0481, 0828
AIKO	.0305	KLH	.0099	RCA	.0087, 0176, 0229, 0069, 0132, 0085, 0062, 0075, 0092, 0104, 0133, 0267, 0304
AIWA	.0334, 0495, 0027, 0064	KENWOOD	.0068, 0094, 0411, 0065	RADIO SHACK	.0027
AKAI	.0133, 0080, 0068, 0076, 0088, 0183, 0269	KODAK	.0062, 0064	RADIX	.0064
AMERICA ACTION	.0305	LXI	.0064	RANDEX	.0064
AMERICAN HIGH	.0062	LLOYD'S	.0027, 0235	REALISTIC	.0027, 0131, 0074, 0075, 0064, 0062, 0089, 0073, 0093
ASHA	.0267	LOGIK	.0099	RICOH	.0061, 0280
AUDIOVOX	.0064	MEI	.0062	RUNCO	.0066
BEAUMARK	.0267	MGA	.0070, 0088, 0267	STS	.0069
BELL & HOWELL	.0131	MGN TECHNOLOGY	.0267	SALORA	.0102
BROKSONIC	.0148, 0211, 0029, 0236, 0238, 0322, 0388, 0506	MTC	.0027, 0267	SAMSUNG	.0072, 0078, 0080, 0267
CCE	.0099, 0305	MAGNASONIC	.0305	SANKY	.0066, 0075
CALIX	.0064	MAGNAVOX	.0062, 0108, 0137, 0130, 0027, 0066, 0176	SANSUI	.0068, 0506, 0027, 0094, 0109, 0236, 0298
CANON	.0194, 0062, 0129	MAGNIN	.0267	SANYO	.0074, 0073, 0131, 0267
CAPEHART	.0047	MARANTZ	.0108, 0062	SCOTT	.0211, 0238, 0148, 0070, 0072, 0237, 0239
CARVER	.0108	MARTA	.0064	SEARS	.0081, 0132, 0064, 0069, 0027, 0062, 0073, 0074, 0093, 0131
CINERAL	.0305	MATSUSHITA	.0062, 0189, 0481	SEMP	.0072
CITIZEN	.0305, 0064	MEMOREX	.0131, 0074, 0506, 0027, 0064, 0075, 0062, 0073, 0267, 0334, 0066, 0189, 0236, 0481, 0828, 0829	SHARP	.0075, 0089
COLT	.0099	MINOLTA	.0132, 0069	SHINTOM	.0099
CRAIG	.0064, 0099, 0074, 0267, 0298	MITSUBISHI	.0200, 0088, 0102, 0241, 0269, 0070, 0075, 0094, 0470	SHOGUN	.0078, 0267
CURTIS MATHES	.0062, 0068, 0087, 0189	MOTOROLA	.0062, 0075	SINGER	.0099
CYBERNEX	.0078, 0267	MULTITECH	.0027, 0099	SONY	.0060, 0061, 0059, 0280, 0027, 0038, 0062
DAEWOO	.0305, 0588, 0047, 0072	NAD	.0085	SUNPAK	.0280
DAYTRON	.0047	NEC	.0065, 0067, 0068, 0077, 0094, 0109, 0131	SYLVANIA	.0062, 0108, 0027, 0070, 0130, 0137
DENON	.0069	NIKKO	.0064	SYMPHONIC	.0027
DYNATECH	.0027	NIKON	.0061, 0280	TMK	.0063, 0235, 0267
ELECTROHOME	.0064	NOBLEX	.0267	TATUNG	.0068
ELECTROPHONIC	.0064	OLYMPUS	.0062, 0253	TEAC	.0027, 0068
EMEREX	.0059	OPTIMUS	.0189, 0481, 0827, 0828, 0075, 0085, 0829, 0064, 0131, 0459	TECHNICS	.0062, 0189, 0273
EMERSON	.0211, 0029, 0236, 0305, 0063, 0148, 0238, 0588, 0235, 0321, 0506, 0088, 0115, 0239, 0027, 0064, 0070, 0095, 0322, 0388, 0537	ORION	.0506, 0029, 0211, 0236, 0322	TEKNIKA	.0027, 0062, 0064, 0079
FISHER	.0074, 0131, 0081, 0093	PANASONIC	.0062, 0189, 0828, 0481, 0253, 0104, 0405, 0829, 0129, 0252, 0254, 0273, 0827	THOMAS	.0027
FUJI	.0060, 0062	PENNEY	.0062, 0267, 0064, 0069, 0065, 0067, 0081	TOSHIBA	.0072, 0237, 0239, 0070, 0093, 0393
FUNAI	.0027	PENTAX	.0069, 0092, 0132	TOTEVISION	.0064, 0267
GE	.0062, 0087, 0075, 0092, 0229, 0267	PHILCO	.0062, 0236, 0506	UNITECH	.0267
GARRARD	.0027	PHILIPS	.0108, 0062, 0089, 0137, 0830, 0831	VECTOR	.0072
GO VIDEO	.0306, 0459, 0553, 0259	PILOT	.0064	VECTOR RESEARCH	.0065, 0067
GOLDSTAR	.0064, 0045, 0065, 0498, 0507	PIONEER	.0085, 0195, 0094	VIDEO CONCEPTS	.0067, 0072, 0088, 0248
GRADIENTE	.0035, 0027, 0435	POLK AUDIO	.0108	VIDEOSONIC	.0267
GRUNDIG	.0222	PORTLAND	.0047	WARDS	.0062, 0087, 0089, 0027, 0074, 0239, 0267, 0069, 0075, 0099, 0108, 0176
HI-Q	.0074	PROFITRONIC	.0267	WHITE WESTINGHOUSE	.0099, 0305, 0236
HARLEY DAVIDSON	.0027	PROSCAN	.0087, 0229	XR-1000	.0099, 0027, 0062
HARMAN/KARDON	.0065, 0102, 0108	PROTEC	.0099	YAMAHA	.0065
HARWOOD	.0095, 0099	PULSAR	.0066, 0078	ZENITH	.0066, 0027, 0060, 0061, 0236, 0506
HEADQUARTER	.0073	QUARTER	.0073		
HITACHI	.0069, 0193, 0132, 0092, 0027, 0068, 0109				
HUGHES NETWORK SYSTEMS	.0069				
JVC	.0094, 0035, 0233, 0234, 0068, 0411				

DVD PLAYER

	CODE NUMBER		
DENON	.0859	MARANTZ	.0866
GE	.0862	MITSUBISHI	.0861
HARMAN/KARDON	.0871	ONKYO	.0860
HITACHI	.0870	OPTIMUS	.0869
JVC	.0868	PANASONIC	.0859
KENWOOD	.0865	PHILIPS	.0866, 0860
MAGNAVOX	.0860	PIONEER	.0869, 0863
		PROSCAN	.0862
		RCA	.0862, 0869
		SAMSUNG	.0870
		SONY	.0864
		TECHNICS	.0859
		THETA DIGITAL	.0869
		TOSHIBA	.0860
		YAMAHA	.0859, 0867
		ZENITH	.0872, 0860

SEE THE NEXT PAGE FOR MORE CODES.



DIRECT-ENTRY CODES FOR A/V ACCESSORY DEVICES

LASER-DISC PLAYER

	CODE NUMBER		CODE NUMBER
ADS	.0880	MARANTZ	.0853, 0850
AIWA	.0855	MITSUBISHI	.0849
CARVER	.0853, 0850, 0858	NAD	.0849
DENON	.0851, 0849, 0875	NEC	.0879
DISCO VISION	.0848	NIKKODO	.0884
FUNAI	.0855	OPTIMUS	.0849
HARMAN/KARDON	.0853	PANASONIC	.0856
HITACHI	.0848	PHILIPS	.0853, 0850
KENWOOD	.0877	PIONEER	.0849, 0848
MAGNAVOX	.0853, 0857, 0875	POLK AUDIO	.0853
		QUASAR	.0856
		RCA	.0881, 0874
		REALISTIC	.0855
		SAMSUNG	.0858
		SEGA	.0848
		SHARP	.0873
		SONY	.0854, 0852, 0878
		TECHNICS	.0856
		THETA DIGITAL	.0853
		VICTOR	.0876
		YAMAHA	.0857

CABLE CONVERTER BOX

	CODE NUMBER		CODE NUMBER
ABC	.0030, 0028, 0034, 0035, .0038, 0040, 0041, 0044, .0060	HAMLIN	.0047, 0036, 0286, 0061, .0300
ALLEGRO	.0180, 0342	HITACHI	.0038
ANTRONIX	.0049, 0234	HYTEX	.0034
APACHE	.0797	JASCO	.0042, 0180, 0342
ARCHER	.0049, 0066, 0180, 0234, .0824	JERROLD	.0030, 0039, 0303, 0041, .0503, 0038, 0051, 0042, .0837
BBT	.0294	LINSAY	.0467
BELCOR	.0083	MACOM	.0060
BELL & HOWELL	.0041	MAGNAVOX	.0054
CABLE STAR	.0083	MEMOREX	.0027
CABLETENNA	.0049	MOVIE TIME	.0090, 0183
CABLEVIEW	.0049	NSC	.0183, 0090, 0097
CENTURY	.0180	NEXUS	.0797
CITIZEN	.0180, 0342	NOVAPLEX	.0645
COLOUR VOICE	.0052, 0058	OAK	.0046, 0034
COMBAND	.0259	OPTIMUS	.0048
COMTRONICS	.0067, 0087	PANASONIC	.0048, 0134, 0027
CONTEC	.0046	PANTHER	.0664
DIGI	.0664	PARAGON	.0027
EASTERN	.0029	PHILIPS	.0052, 0058, 0269, 0317, .0054, 0180
EMERSON	.0824	PIONEER	.0171, 0050, 0560
EVERQUEST	.0042, 0067	POPULAR MECHANICS	.0427
FOCUS	.0427	PRELUDE	.0797
GC ELECTRONICS	.0083, 0234	PULSAR	.0027
GE	.0259	QUASAR	.0027
GARRARD	.0180	RCA	.0048
GEMINI	.0042, 0097, 0269, 0824	RADIO SHACK	.0042, 0847, 0342, 0824
GENERAL INSTRUMENT	.0303, 0038, 0503, 0837	REALISTIC	.0234
GOLDSTAR	.0067, 0171	RECOTON	.0427
GOODMIND	.0797, 0824	REGAL	.0300, 0047, 0286
		REGENCY	.0029
		REMBRANDT	.0038, 0097
		RUNCO	.0027
		SL MARX	.0067
		SAMSUNG	.0067, 0171
		SCIENTIFIC ATLANTA	.0035, 0044, 0033, 0504
		SEAM	.0537
		SIGNAL	.0042, 0067
		SIGNATURE	.0038
		SPRUCER	.0048
		STARLIGHT	.0569, 0449
		STARCOM	.0030, 0042
		STARGATE	.0067, 0042, 0797, 0824
		STARQUEST	.0042
		SYLVANIA	.0028
		TFC	.0337
		TV86	.0090
		TANDY	.0285
		TELECATION	.0248
		TELEVIEW	.0067
		TEXSCAN	.0028
		TIMELESS	.0445
		TOCOM	.0039, 0040
		TOSHIBA	.0027
		TUSA	.0042
		UNIKA	.0180, 0234, 0049
		UNITED ARTISTS	.0034
		UNIVERSAL	.0234, 0049, 0066, 0083, .0180, 0218
		VIEWMASTER	.0847
		VIEWSTAR	.0285, 0054, 0087, 0090
		ZENITH	.0027, 0552, 0081
		ZENITEK	.0427

SATELLITE RECEIVER/DIGITAL SATELLITE SYSTEM

	CODE NUMBER		CODE NUMBER
ALPHA STAR	.0799	GE	.0593
AMPLICA	.0099	GENERAL INSTRUMENT	.0388, 0896, 0574, 0581, .0654
AMWAY	.0070, 0102	GOULD	.0082
ARUNTA	.0548	HNS	.0644
ASTRO INDUSTRIES	.0122	HTS	.0802
BMC	.0114	HITACHI	.0846
BSR	.0122	HomeCABLE	.0265
CABLE INNOVATIONS	.0581	HUGHES NETWORK SYSTEMS	.0776
CAPETRONIC	.0122	HYTEK	.0122
CENTURY	.0565	IQ	.0237
CHANNEL MASTER	.0045, 0239	IQ PRISM	.0237
CHAPARRAL	.0080, 0236, 0243	INTERSAT	.0070
CITOH	.0191	JVC	.0802
CONIFER	.0031	JANEIL	.0179
CURTIS MATHES	.0088, 0099	JERROLD	.0388, 0654
DX ANTENNA	.0068	LEGEND	.0296
DRAKE	.0091, 0272, 0045, 0176	MACOM	.0088, 0045
ECHO STAR	.0307, 0802, 0175, 0186, .0296	MAGNAVOX	.0749, 0751
EXPRESSVU	.0802	MEMOREX	.0296, 0751
		NEXT LEVEL	.0896
		NORSAT	.0031
		PANASONIC	.0179, 0728
		PHILIPS	.0227, 0749, 0751
		PICO	.0102
		PRIMESTAR	.0654, 0388
		RCA	.0593, 0170, 0882
		RADIO SHACK	.0581, 0896
		RAMSEY	.0102
		REALISTIC	.0079, 0078
		STS	.0237, 0068
		SONY	.0666
		STAR CHOICE	.0896
		STAR TRAK	.0207, 0448, 0574
		STRONG	.0448
		TOSHIBA	.0109, 0776, 0817, 0088
		TOWN & COUNTRY	.0574
		UNIDEN	.0265, 0079, 0101, 0397, .0581, 0751, 0103, 0323, .0749
		ZENITH	.0091, 0883, 0088

TELEVISION

	CODE NUMBER
MAGNAVOX	.0583

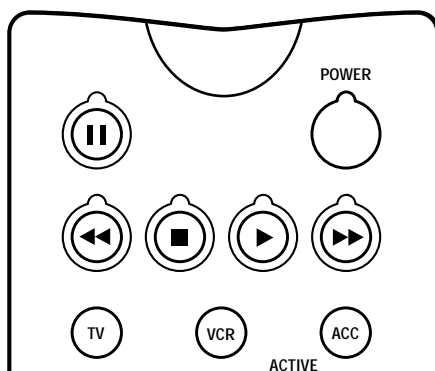
USING THE TV REMOTE WITH ACCESSORY DEVICES



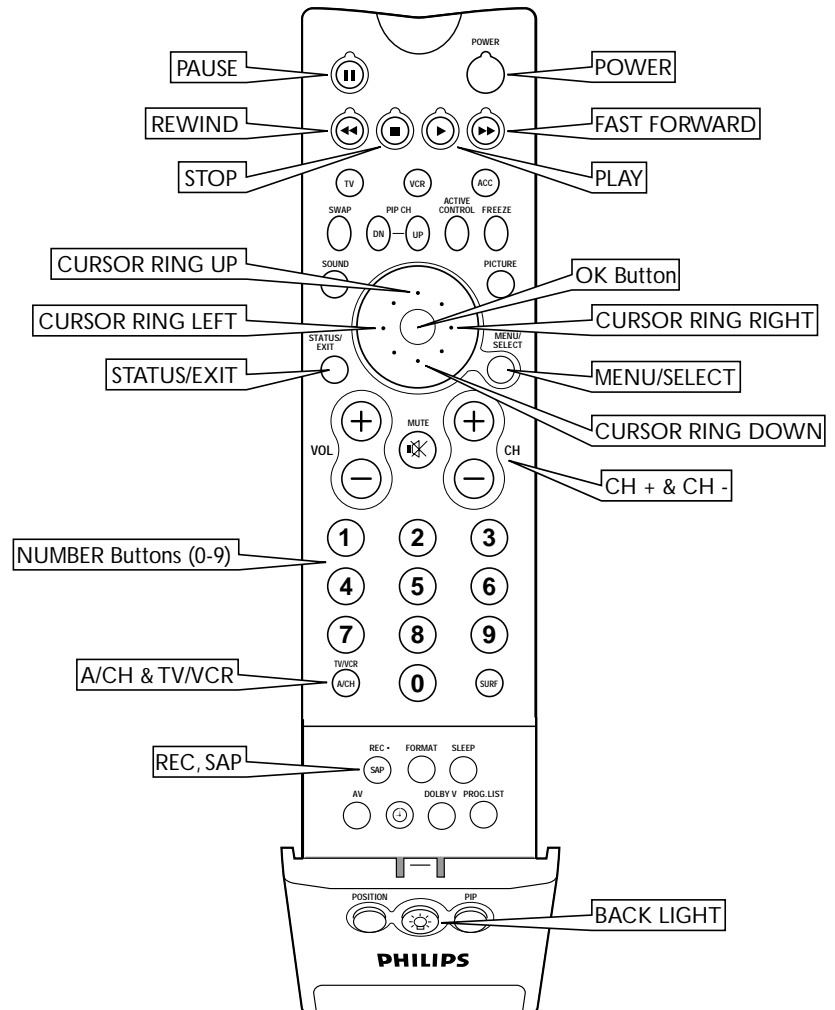
The Chart below provides you with common accessory-device functions associated with the buttons on your Philips TV remote control. (See pages 16–18 for information on programming your TV remote to operate accessory devices.)

NOTES:

- Functions can vary according to the manufacturer's specifications for each accessory device.
- First press the VCR mode button to use the TV remote to operate a VCR.
- First press the ACC mode button to use the TV remote to operate a DVD player, laser-disc player, cable converter box, or satellite receiver/digital satellite system.



TV Remote VCR and Accessory Mode Buttons



Button on TV Remote	Common VCR Function	Common DVD/LD Player Function	Common Cable Converter Box or Satellite Receiver/Digital Satellite System (DSS) Function
POWER	POWER	POWER	POWER
PAUSE	PAUSE	PAUSE	—
REWIND	REWIND	SEARCH REVERSE	—
STOP	STOP	STOP	—
PLAY	PLAY	PLAY	—
FAST FORWARD	FAST FORWARD	SEARCH FORWARD	—
CURSOR RING UP	CURSOR UP	CURSOR UP	CURSOR UP
CURSOR RING DOWN	CURSOR DOWN	CURSOR DOWN	CURSOR DOWN
CURSOR RING RIGHT	CURSOR RIGHT	CURSOR RIGHT	CURSOR RIGHT
CURSOR RING LEFT	CURSOR LEFT	CURSOR LEFT	CURSOR LEFT
OK Button	PROGRAM; MENU	MENU	MENU (also, GUIDE for satellite receivers/DSS)
STATUS/EXIT	EXIT	EXIT	EXIT
MENU/SELECT	SELECT	SELECT	SELECT
CH +	CHANNEL UP	NEXT	CHANNEL UP
CH -	CHANNEL DOWN	PREVIOUS	CHANNEL DOWN
NUMBER Buttons (0-9)	NUMBER SELECTION (0-9)	NUMBER SELECTION (0-9)	NUMBER SELECTION (0-9)
A/CH* and TV/VCR	TV/VCR, A/CH*	—	—
REC, SAP	RECORD (Press with PLAY Button)	—	—
BACK LIGHT**	BACK LIGHT**	BACK LIGHT**	BACK LIGHT**

*A/CH (Alternate Channel) allows you to switch between the currently viewed channel and the previously viewed channel.

**Press the BACK LIGHT button to light the white buttons on the remote.

USING THE AV AND SOURCE SELECT BUTTONS

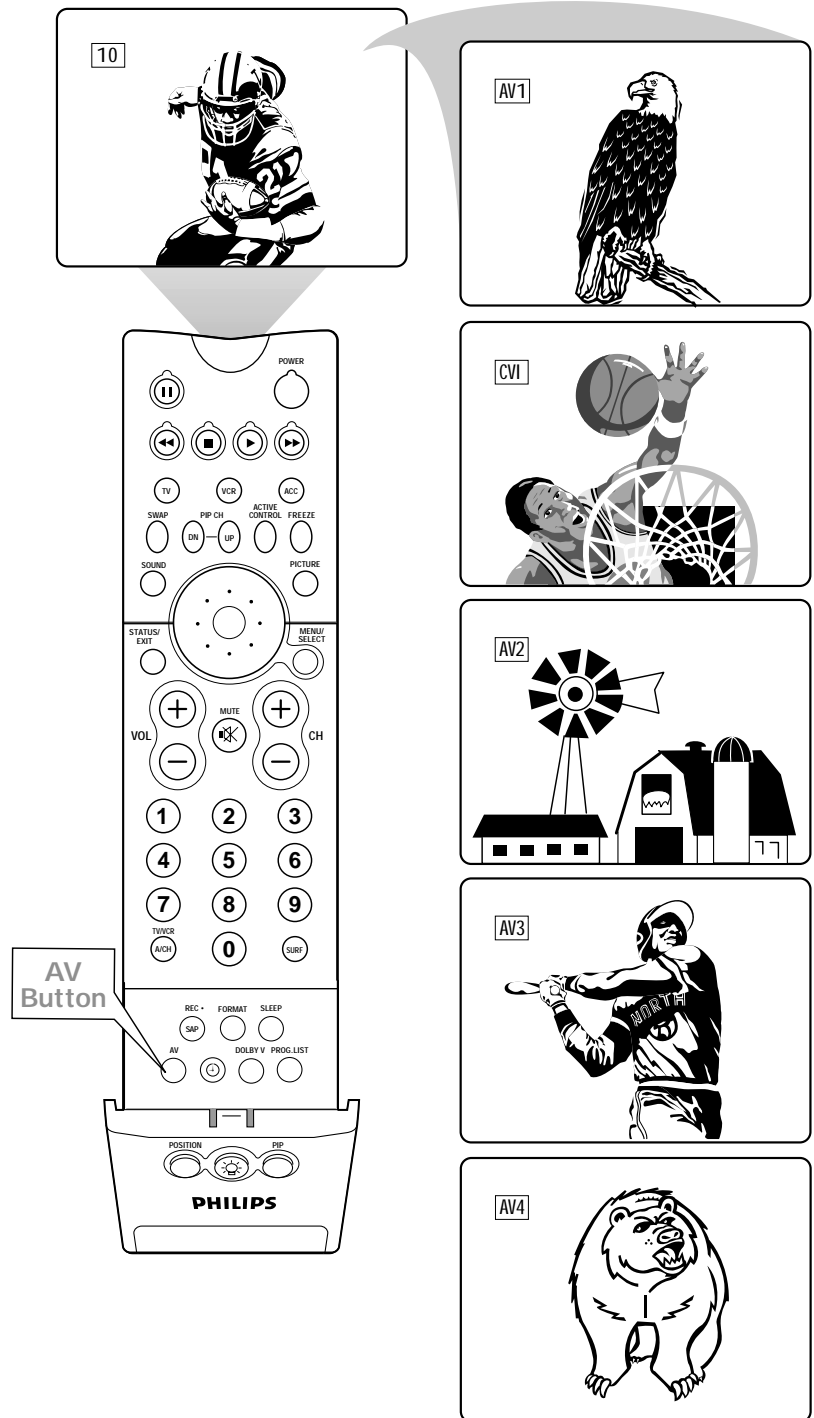
The AV button on the remote control and SOURCE SELECT button on the TV allow you to access the TV's signal-source inputs. With each press of the AV button you can access a different signal-source input. The signal-source input jacks are located on the back and side panels of your TV. (See page 6 for descriptions of what you can connect to each of the TV's panel jacks.)

Selecting a Signal Source Using the AV Button on the Remote Control

Press the AV button on the remote control as many times as necessary to select the signal source you want to watch.

Selecting a Signal Source Using the Source Select Button on the TV

Press the SOURCE SELECT button on the TV as many times as necessary to select the signal source you want to watch.



USING AUTO SOUND™



You can use the AutoSound™ options to automatically tailor the TV's sound for the type of program you are watching. The factory has set the VOICE, MUSIC, and THEATRE options. The settings for the PERSONAL option are the ones you select through the onscreen SOUND submenu. See descriptions of the options below, right.

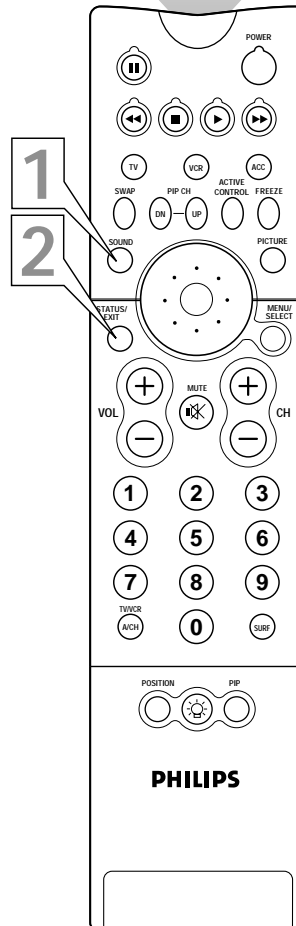
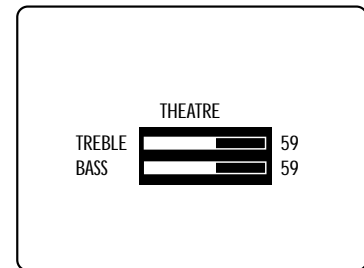
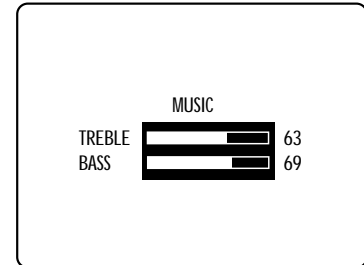
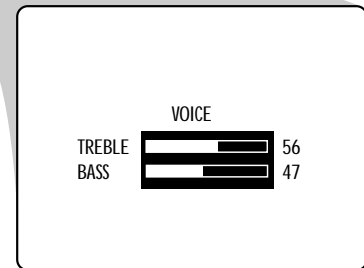
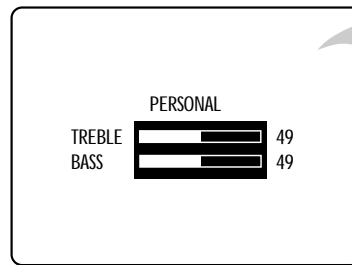
BEGIN

- 1 Press the **SOUND** button on the remote control. The current AutoSound™ setting will appear on screen. Press the **SOUND** button repeatedly to cycle through the four options: PERSONAL, VOICE, MUSIC, or THEATRE.
- 2 When you see the option you want on the screen, press the **STATUS/EXIT** button to exit the menu. The AutoSound™ option you selected is then active.



HELPFUL HINTS

- AutoSound™ works only with the programs coming through the ANTENNA IN 75Ω jack on the rear of the TV. AutoSound™ will not control the sound levels of the other jacks on the rear or side of the TV.
- If you select an AutoSound™ option other than PERSONAL, then the TREBLE and BASS settings specific to that option will also be written to the SOUND submenu items. At that point, the PERSONAL AutoSound™ option settings will not be changed. Only when you go into the SOUND submenu and change the TREBLE and BASS settings will those settings be reflected in the PERSONAL AutoSound™ option.



AutoSound™ Options

PERSONAL presents the TV's sound according to the TREBLE and BASS settings you make within the SOUND submenu.

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

MUSIC emphasizes music over voices.

THEATRE provides a balance between voices and music.

USING AUTOPICTURE™

You can use an AutoPicture™ option to automatically tailor the TV's picture for certain types of input signals. The factory has set the MOVIES, SPORTS, WEAK SIGNAL, and MULTIMEDIA options. The settings for the PERSONAL option are the ones you select through the onscreen PICTURE submenu.

BEGIN

- 1** Press the **PICTURE** button on the remote control. The current AutoPicture™ setting will appear on screen. Then Press the PICTURE button repeatedly to cycle through the options: PERSONAL, MOVIES, SPORTS, WEAK SIGNAL, and MULTIMEDIA picture settings.
- 2** When you see the option you want on screen, press the **STATUS/EXIT** button to turn off the onscreen display. The AutoPicture™ option you selected is then active.



HELPFUL HINT

If you select an AutoPicture™ setting option other than PERSONAL, then the BRIGHTNESS, COLOR, PICTURE, and SHARPNESS settings specific to that option will also be written to the PICTURE submenu items. At that point, the PERSONAL AutoPicture™ option settings will not be changed. Only when you go into the PICTURE submenu and change the settings will those settings be reflected in the PERSONAL AutoPicture™ option.

Option	BRIGHTNESS	COLOR	PICTURE	SHARPNESS
PERSONAL	48	41	81	46
MOVIES	50	50	50	84
SPORTS	50	55	60	70
WEAK SIGNAL	50	40	40	28
MULTIMEDIA	50	40	40	70

USING AUTOSURF™



After you set up a list of your favorite signal sources in the SURF list, you can press the SURF button to see the list and quickly tune to a favorite signal source. Place up to 10 signal sources in the SURF LIST.

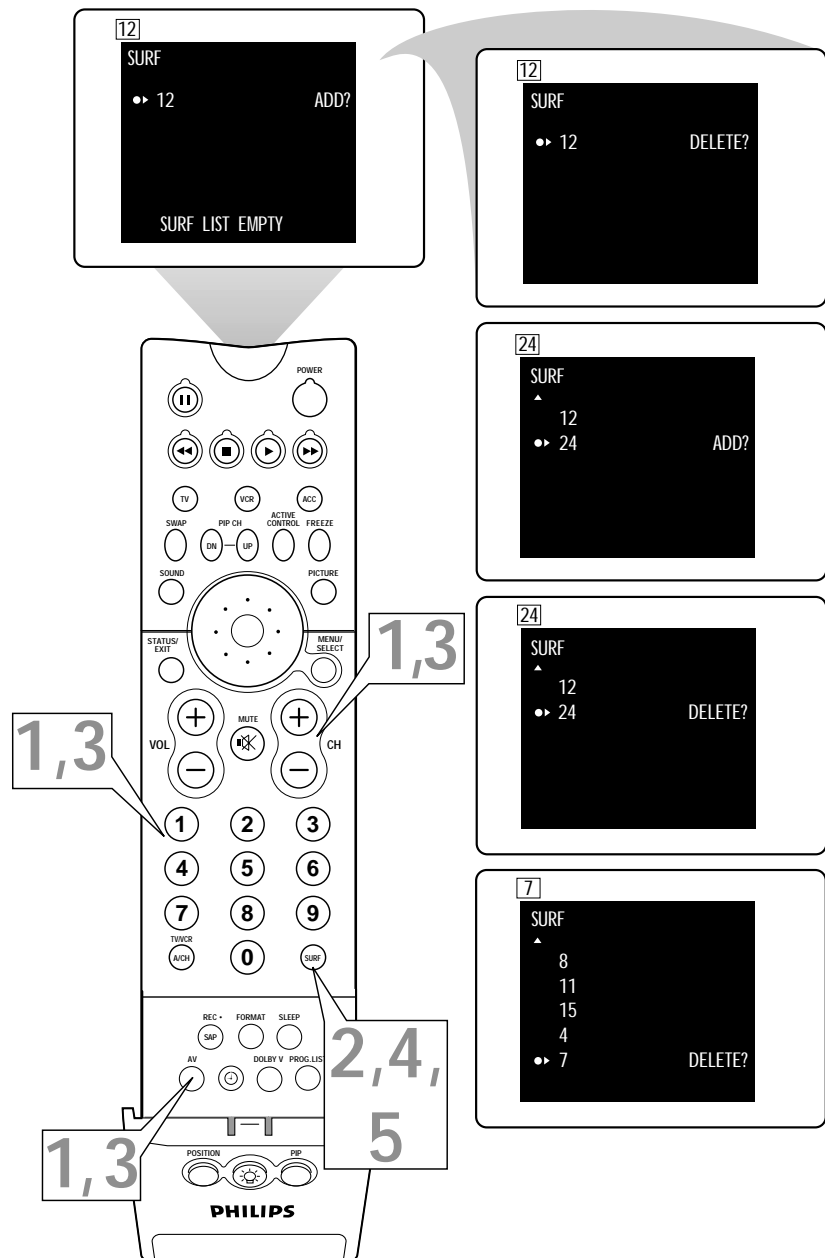
BEGIN

- 1** Press the **NUMBER** buttons, **CH(annel) +/-** buttons, or the **AV** button to select a signal source to add to the Surf list.
- 2** Press the **SURF** button. The Surf list box appears. The number of the current signal source is shown with **ADD?** to the right. (If you have not added any channels to the list, "SURF LIST EMPTY" appears on screen.) Press the **CURSOR RING RIGHT** to add the signal source to the Surf list.
- 3** Press the **NUMBER** buttons, **CH(annel) +/-** buttons, or the **AV** button to select another signal source to add to the Surf list. Press the SURF button and then the **CURSOR RING RIGHT** to add the signal source to the list.
Repeat this step, filling the list with up to 10 favorite signal sources.
NOTE: If you exceed 10 signal sources, the first signal source on the list will be deleted from the list.
- 4** To tune to a favorite signal source from the list, press the **SURF** button. The Surf list box appears. Press the SURF button or the **CURSOR RING DOWN** or **UP** as many times as necessary to tune to the signal source.
- 5** To delete a signal source from the list, press the **SURF** button. The Surf list box appears. Press the SURF button or the **CURSOR RING DOWN** or **UP** as many times as necessary to select the signal source to be deleted. Then press the **CURSOR RING RIGHT** to delete the signal source.



HELPFUL HINT

Five signal sources can be shown in the Surf list box at one time. Press the **CURSOR RING UP** or **DOWN** to show any other signal sources that are in the list.



USING PROGRAM LIST AND ALTERNATE CHANNEL

PROGRAM LIST

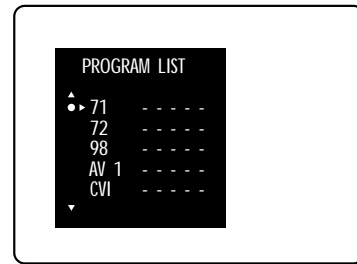
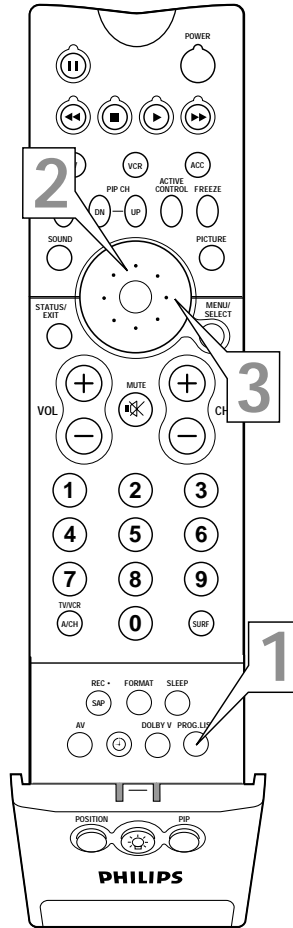
BEGIN

1 Press the **Program List** to display a list of channel numbers and their names (see the “Tuner Mode” “Auto Program,” “Channel Edit,” and “Name” sections on pages 4–6 in the *Quick Use and Setup Guide* that came with your TV for proper setup).

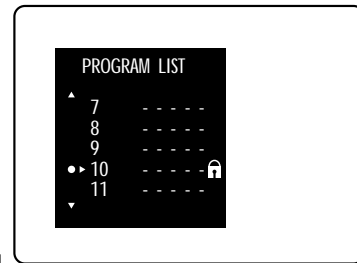
You can also access the Program List by pressing the button in the center of the Cursor Ring. Each channel will appear as a selectable item. The current channel will be highlighted by default. Only five channels will be shown in the list at one time.

2 Press the **CURSOR RING UP** or **DOWN** to go through the list and highlight a channel.

3 Press the **CURSOR RING RIGHT** to tune to the highlighted channel. Channels marked “Skipped” in the “Channel Edit” control will not appear in the list. Any channel that is being blocked by AutoLock™ will appear with a padlock icon to indicate that the channel is not viewable.

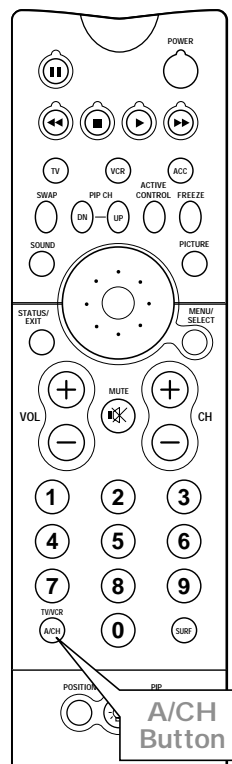


A padlock image will appear to the right of a channel or signal source that is being blocked by AutoLock™.

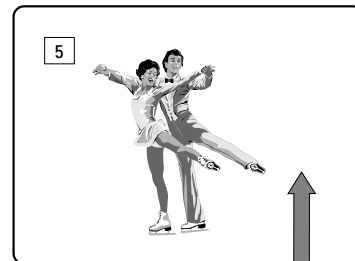


ALTERNATE CHANNEL (A/CH)

Press the **A/CH** button to go back and forth between the current channel and one previously watched channel.

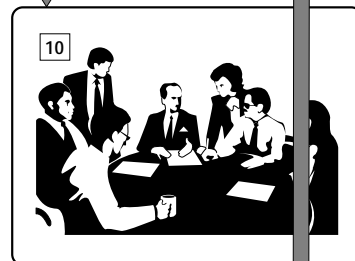


Watch channel



Change channel

Watch new channel



Press **A/CH** button to return to previously watched channel

USING THE SLEEP TIMER CONTROL



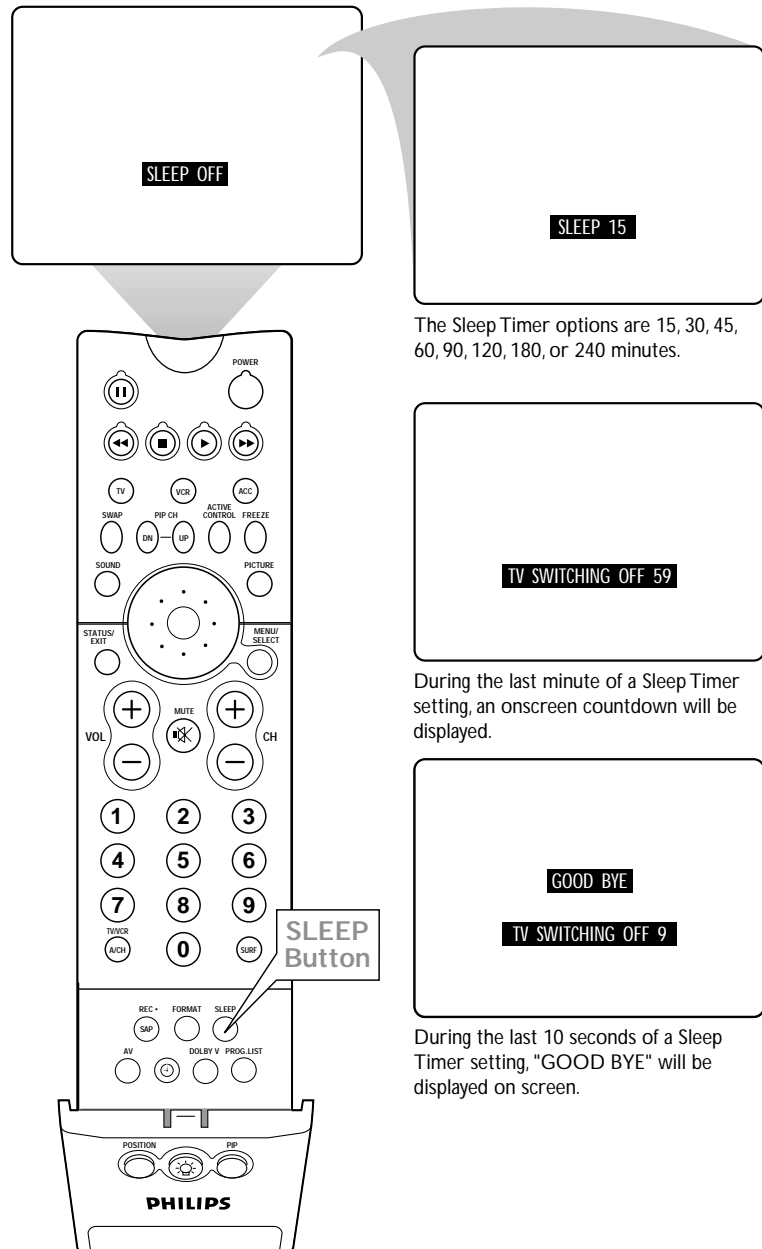
Have you ever fallen asleep in front of the TV? You can program your TV to turn off while you sleep. The Sleep Timer feature allows you to set your TV to turn off within a certain amount of time: 15, 30, 45, 60, 90, 120, 180, or 240 minutes.

Press the SLEEP button on the remote control. (The SLEEP Timer onscreen display will appear on screen.) **Then within five seconds, press the SLEEP button again as many times as necessary** to select the amount of time you want to pass before the TV will turn itself off.

An onscreen countdown will appear during the last minute before the TV turns off. Ten seconds before the Sleep Timer turns the TV off, the onscreen display will show "Good Bye."

HELPFUL HINTS

- To see how many minutes remain before the TV shuts itself off, press the STATUS/EXIT button.
- Changing the channel or volume during the last minute of a Sleep Timer will cancel Sleep.



The Sleep Timer options are 15, 30, 45, 60, 90, 120, 180, or 240 minutes.

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, "GOOD BYE" will be displayed on screen.

ADJUSTING THE PICTURE CONTROLS


To adjust your TV picture controls, select a channel and follow these steps. See descriptions of the picture-adjustment options below.

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING RIGHT**. BRIGHTNESS will be highlighted and an adjustment bar will be shown to the right.
- 3** Press the **CURSOR RING RIGHT** or **LEFT** to adjust the BRIGHTNESS level of the picture. Or press the **CURSOR RING DOWN** to select another picture control to adjust.
- 4** Press the **STATUS/EXIT** button to exit the menu.



Picture-adjustment Options

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

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

COLOR adds or eliminates color.

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

SHARPNESS improves the detail in the picture.

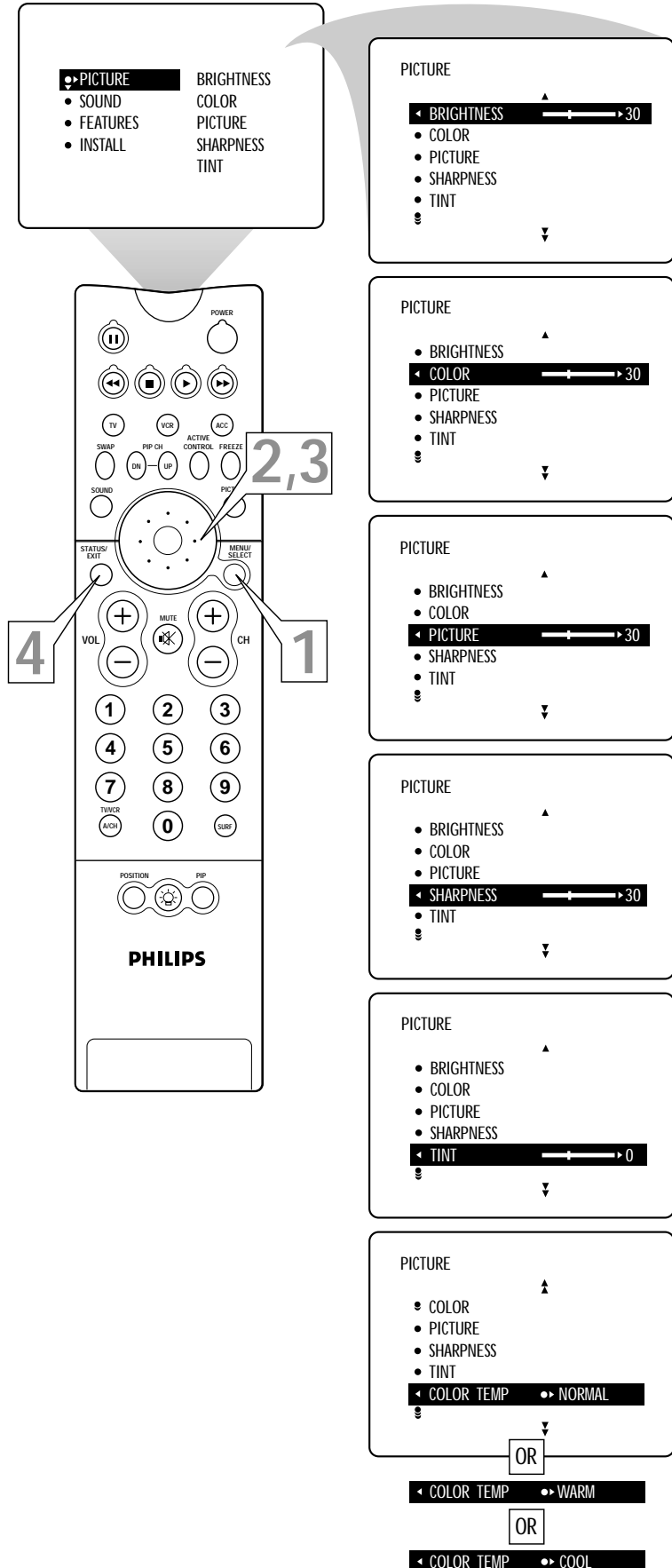
TINT adjusts the picture to obtain natural skin tones.

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

NORMAL keeps whites, white.

WARM makes whites, reddish.

COOL makes whites, bluish.



SETTING THE EYE FIDELITY CONTROL



Eye Fidelity gives you a choice between two different scanning techniques—progressive or interlaced.

Progressive scan doubles the number of picture lines, eliminating line flicker and providing a jitter-free picture.

Interlaced improves the appearance of onscreen motion. It also helps smooth out jagged lines that are sometimes seen on curved and angled surfaces in the picture.

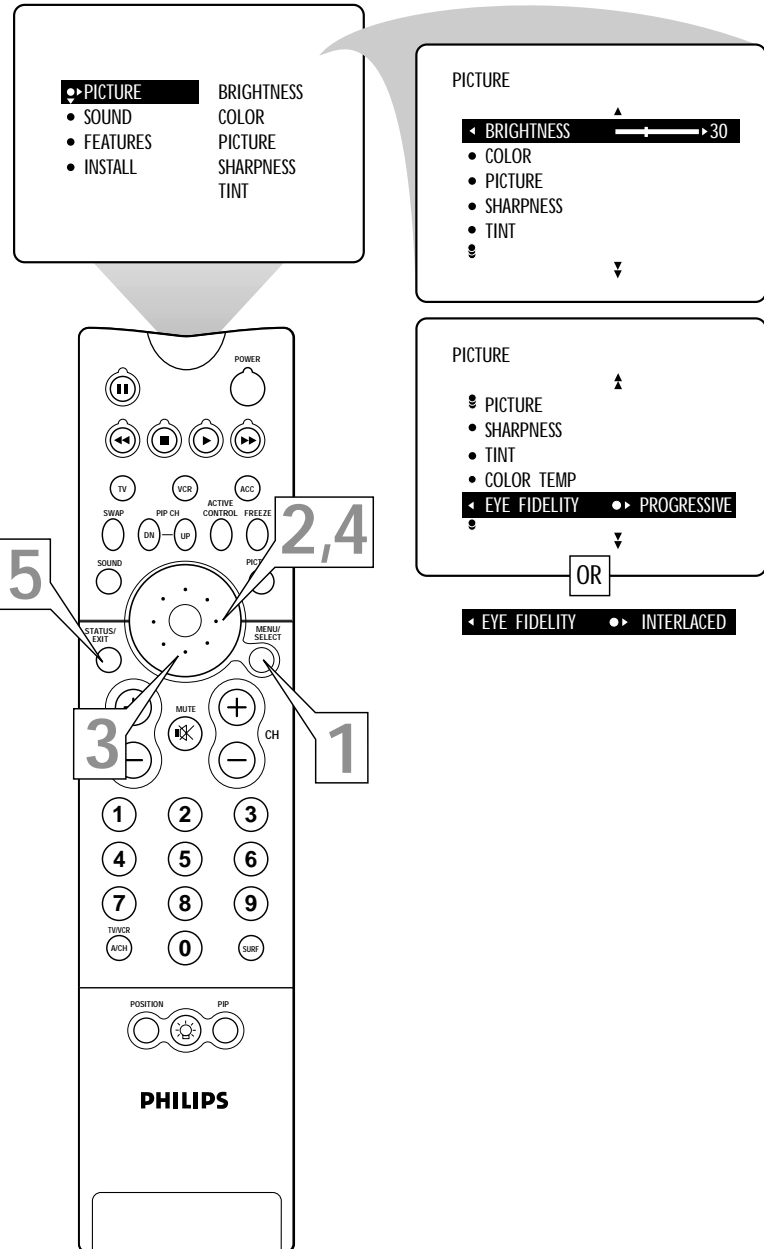
BEGIN

- 1** Press the **MENU/SELECT** button on the remote to show the onscreen menu.
- 2** Press the **CURSOR RING RIGHT** to enter the PICTURE submenu.
- 3** Press the **CURSOR RING DOWN** repeatedly until the **EYE FIDELITY** control is highlighted.
- 4** Press the **CURSOR RING RIGHT** or **LEFT** until you select the option you want, either **PROGRESSIVE** or **INTERLACED**.
- 5** Press the **STATUS/EXIT** button to turn the menu off.



HELPFUL HINTS

- Eye Fidelity is not available for use with the AV4 signal source.
- You may want to use the interlaced option to enhance programs containing a lot of motion.



SETTING THE DYNAMIC CONTRAST CONTROL

The Dynamic Contrast control allows you to sharpen the picture quality by making dark portions of the picture darker and light portions of the picture more noticeable. Normally, you will probably want to select **MED**. In certain circumstances, however, you may prefer **MIN** or **MAX**.

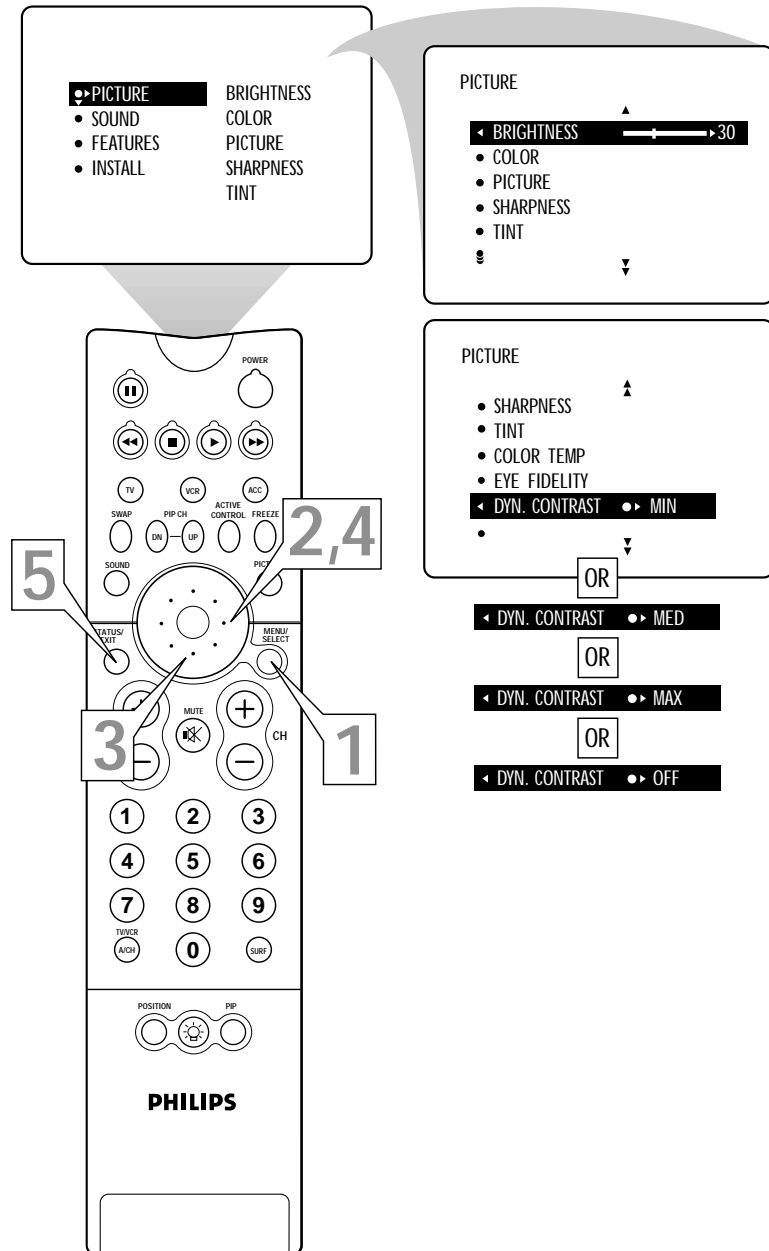
BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING RIGHT** to enter the **PICTURE** submenu.
- 3** Press the **CURSOR RING DOWN** repeatedly until the **DYN. CONTRAST** control is highlighted.
- 4** Press the **CURSOR RING RIGHT** or **LEFT** until you select the option you want: **MIN**, **MED**, or **MAX**.
- 5** Press the **STATUS/EXIT** button to exit the menu.



HELPFUL HINT

Dynamic Contrast is not available for use with the AV4 signal source.



ADJUSTING THE TREBLE, BASS, AND BALANCE CONTROLS



Besides the normal volume level control, your TV also has individual sound-adjustment controls. You can use **TREBLE** (high frequency), **BASS** (low frequency), and Speaker **BALANCE** to further adjust the sound playback of TV programs.

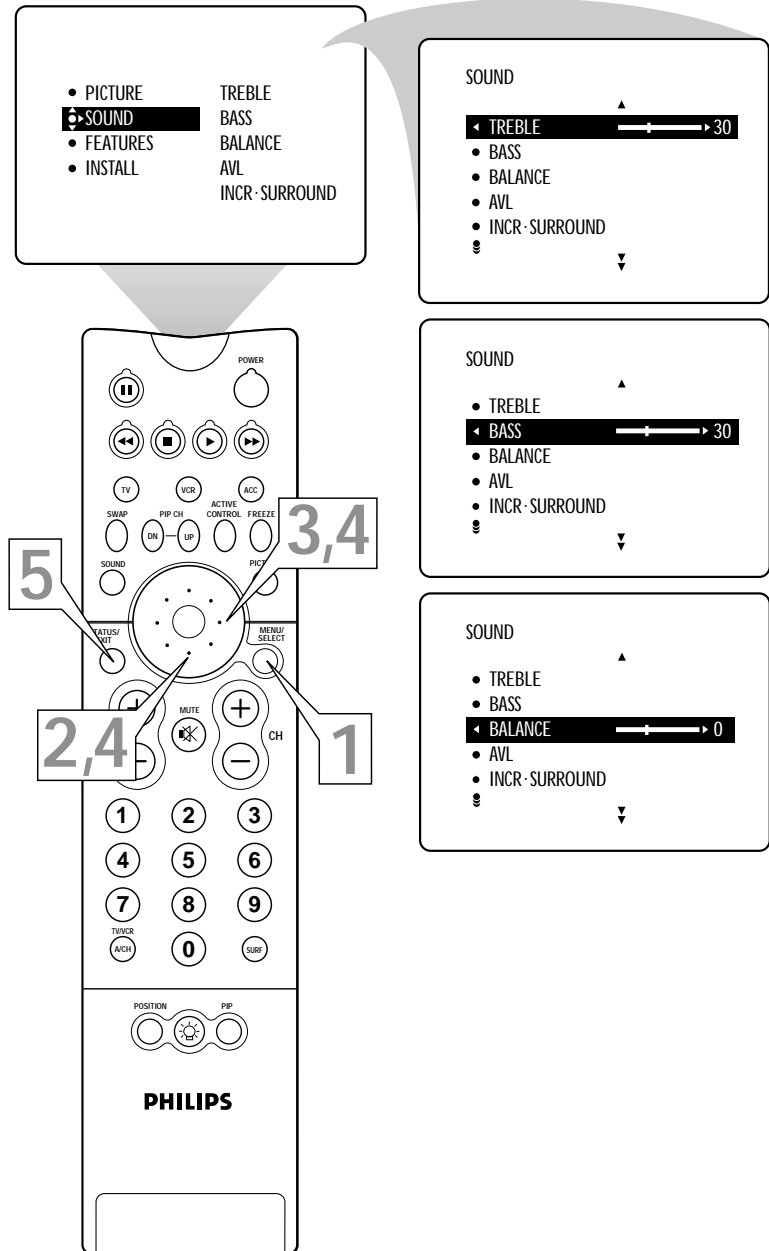
BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** once to highlight **SOUND**.
- 3** Press the **CURSOR RING RIGHT** to enter the **SOUND** submenu.
- 4** To adjust the **TREBLE** level of the television's sound, press the **CURSOR RING RIGHT** or **LEFT**. To adjust another sound control, press the **CURSOR RING DOWN** until the control (**BASS** or **BALANCE**) is highlighted. Then press the **CURSOR RING RIGHT** or **LEFT** to adjust the selected control.
- 5** Press the **STATUS/EXIT** button to exit the menu.



HELPFUL HINT

When the bar scale is centered, speaker sound **BALANCE** is centered between the TV's left and right side speakers.





USING THE AVL (AUDIO VOLUME LEVELER) CONTROL

You may have noticed the peaks and valleys of sound that occur between program changes or at commercial breaks. The volume levels often vary considerably. By turning on the AVL (Audio Volume Leveler) control, you can make your TV produce a more consistent volume level. Follow these steps to turn the AVL control on.

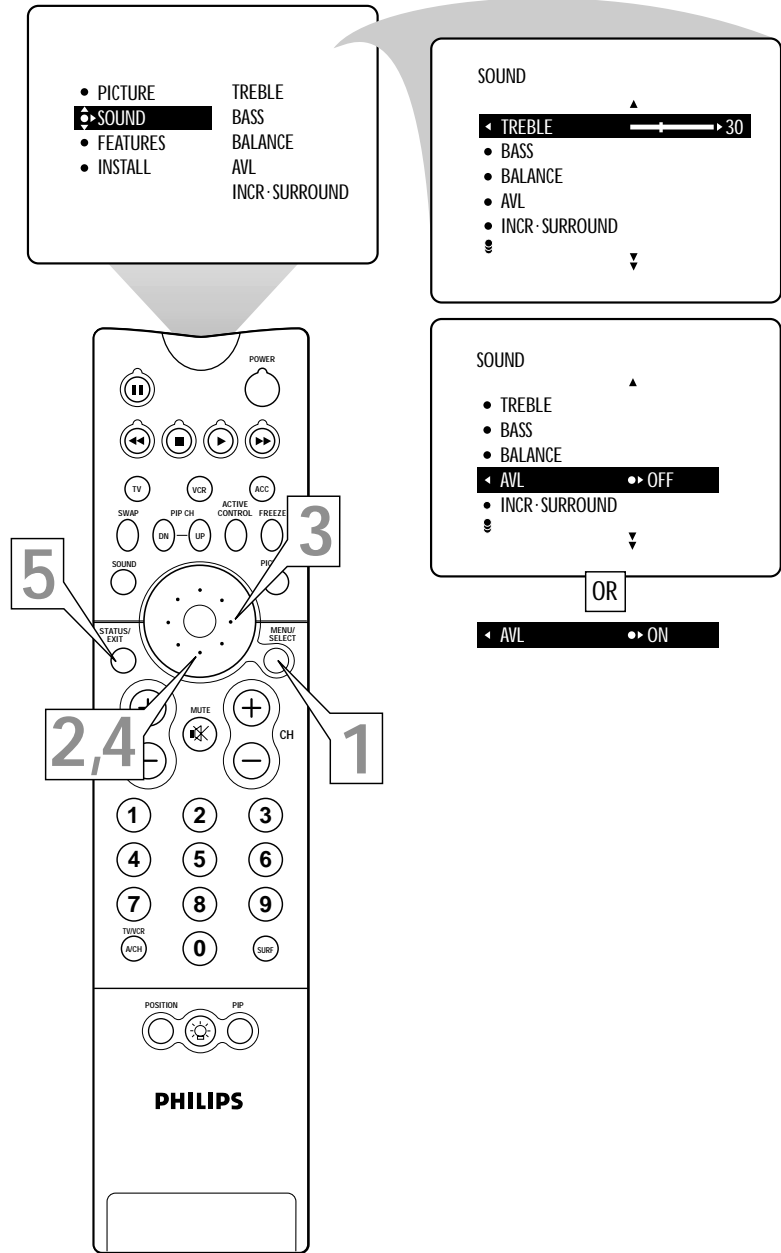
BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** once to highlight **SOUND**.
- 3** Press the **CURSOR RING RIGHT** to enter the **SOUND** submenu.
- 4** Press the **CURSOR RING DOWN** repeatedly until **AVL** is highlighted. Then press the **CURSOR RING RIGHT** or **LEFT** to turn **AVL ON** or **OFF**.
- 5** Press the **STATUS/EXIT** button to exit the menu.



HELPFUL HINT

The AVL control does not function with the Dolby* Virtual feature, so the option disappears from the **SOUND** submenu when you select **DOLBY VIRTUAL**.



*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

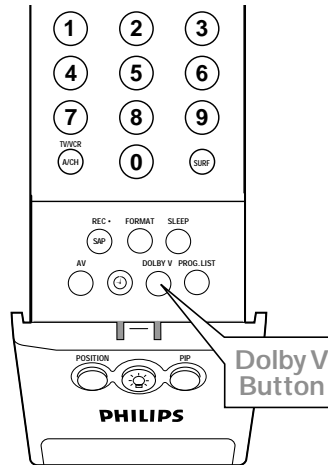
SELECTING THE SURROUND-SOUND MODES



Based on the signal source, you can select various surround-sound modes: **MONO**, **SPATIAL**, **STEREO**, **INCR. SURROUND**, or **DOLBY* VIRTUAL** (Virtual Dolby Surround). (See descriptions of the options to the right.)

Selecting a Surround-sound Option Using the Remote Control

While watching TV, you can select a surround-sound listening mode immediately by pressing the **DOLBY V** button. Each press of the **DOLBY V** button selects a different mode based on the TV signal being received.



Surround-sound Modes

In stereo: select **STEREO**, **INCR. SURROUND**, or **DOLBY VIRTUAL**. **INCR. (Incredible) SURROUND**

enhances stereo programs by making the sound broader and fuller.

DOLBY VIRTUAL (with Virtual Dolby Surround signals) creates a virtualized surround-sound experience from two speakers using Dolby Pro Logic.* It retains all the original multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.

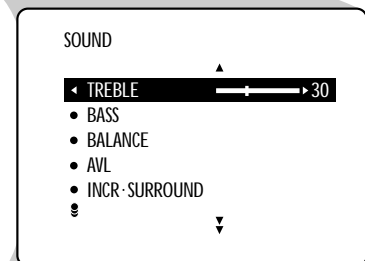
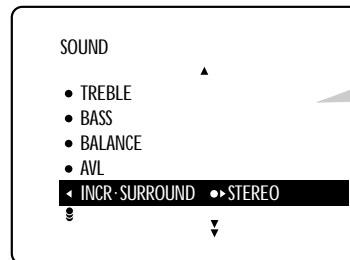
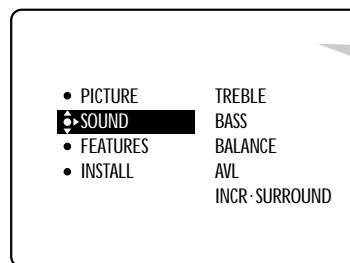
In mono: select **MONO** or **SPATIAL**. **SPATIAL** enables you to add a surround effect to mono programs.

Selecting a Surround-sound Option Using the TV Buttons

Should your remote control become lost or otherwise unavailable for use, follow the steps below to use the buttons on the front of the TV to access the onscreen menu and select a surround-sound mode.

BEGIN

- 1** Press the **Volume +** and **–** buttons simultaneously. The onscreen menu appears.
- 2** Press the **Channel Down** button to highlight **SOUND**. Then press the **Volume +** button to enter the **SOUND** submenu.
- 3** Press the **Channel Down** button repeatedly until **INCR. SURROUND** is highlighted. Then press the **Volume +** or **–** button until you select the surround-sound mode you want.
- 4** Press the **Volume +** and **–** buttons simultaneously and repeatedly until you back out of the menu screens.



OR

◀ INCR·SURROUND ▶ INCR·SURROUND

Or, when signals are being broadcast in Virtual Dolby Surround:

◀ INCR·SURROUND ▶ DOLBY VIRTUAL

When signals are being broadcast in mono (nonstereo):

◀ INCR·SURROUND ▶ MONO

OR

◀ INCR·SURROUND ▶ SPATIAL

HELPFUL HINT

The **AVL** (Audio Volume Leveler) control does not function with the **Dolby Virtual** feature, so the option disappears from the **SOUND** submenu when you select **DOLBY VIRTUAL**.

*Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.



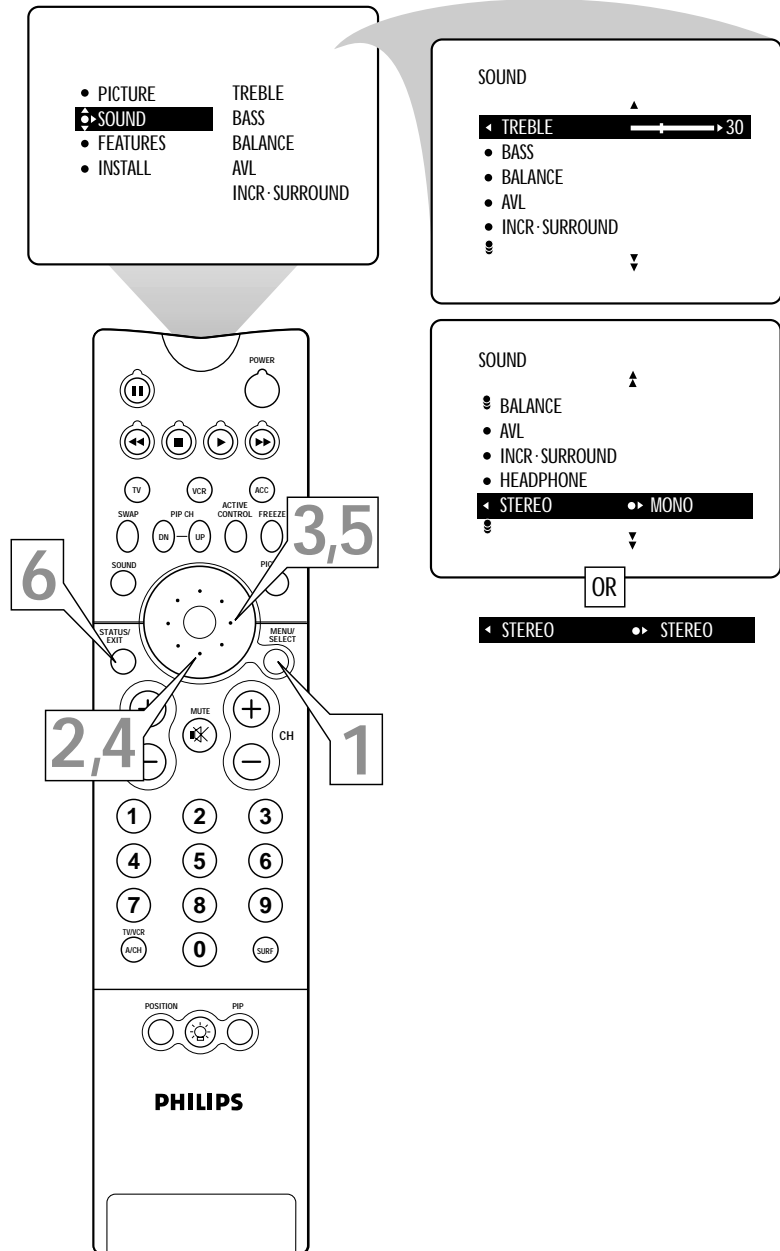
SELECTING THE STEREO/MONO SOUND MODE

You can enjoy stereo programs on your TV. It has both an amplifier and twin speakers through which stereo sound can be heard. While watching the channel or signal source for which you want to select **STEREO**, follow the steps below.

NOTE: When you connect a mono (non-stereo) device to the TV, such as a mono VCR, you must be sure to select **MONO** for the AV source to which you connected the device. Otherwise, you will receive sound from only one speaker. The reason is that in connecting the mono device, you can use only one audio input (Left or Right channel). This will produce sound in only one speaker when the sound setting for the AV source is **STEREO**.

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** once to highlight **SOUND**.
- 3** Press the **CURSOR RING RIGHT** to enter the **SOUND** submenu.
- 4** Press the **CURSOR RING DOWN** repeatedly until the **STEREO** control is highlighted.
- 5** Press the **CURSOR RING RIGHT** or **LEFT** to select **STEREO** or **MONO**. When **STEREO** has been selected, the television will reproduce any stereo signal it receives.
- 6** Press the **STATUS/EXIT** button to exit the menu.



SELECTING THE SAP (SECOND AUDIO PROGRAM) FEATURE

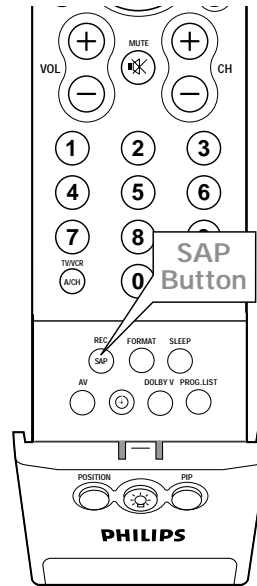


SAP, or Second Audio Program, is an additional part of the stereo broadcast system. Sent as a third audio channel, an SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes, such as the broadcast of a second language or other audio information.

If an SAP signal is not present with a selected program, the SAP option cannot be selected.

Selecting SAP Using the Remote Control

Select SAP immediately by pressing the SAP button on the remote control if the feature is being made available with the program you are watching.



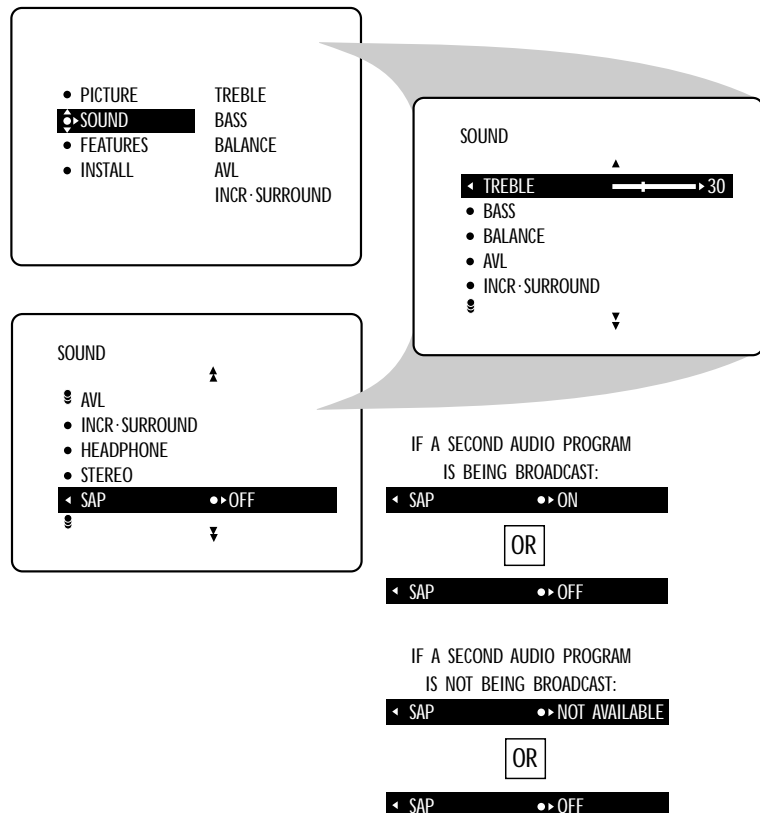
Selecting SAP Using the TV Buttons

Should your remote control become lost or otherwise unavailable for use, follow the steps below to use the buttons on the front of the TV to access the onscreen menu and select SAP.

NOTE: SAP must be broadcast with the program you are watching for you to be able to select the feature.

BEGIN

- 1** Press the Volume + and – buttons simultaneously. The onscreen menu appears.
- 2** Press the Channel Down button to highlight SOUND. Then press the Volume + button to enter the SOUND submenu.
- 3** Press the Channel Down button repeatedly until SAP is highlighted. Then press the Volume + or – button to turn SAP on or off.
- 4** Press the Volume + and – buttons simultaneously and repeatedly until you back out of the menu screens.



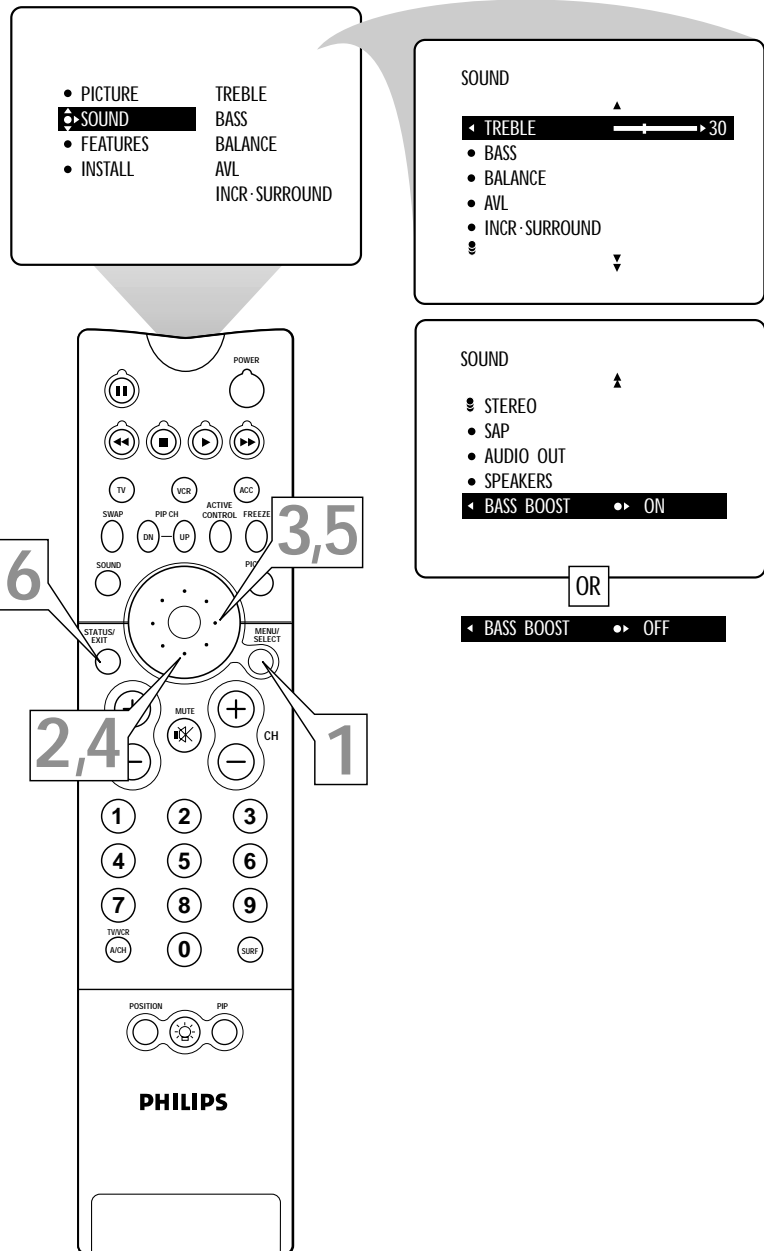


USING THE BASS BOOST CONTROL

The **BASS BOOST** control allows you to increase the low-frequency range of the TV's sound. This creates a deeper, fuller sound. Follow these steps to turn **BASS BOOST ON**.

BEGIN

- 1** Press **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** once to highlight **SOUND**.
- 3** Press the **CURSOR RING RIGHT** to enter the **SOUND** submenu.
- 4** Press the **CURSOR RING DOWN** repeatedly until **BASS BOOST** is highlighted.
- 5** Press the **CURSOR RING RIGHT** or **LEFT** to turn **BASS BOOST ON** or **OFF**.
- 6** Press the **STATUS/EXIT** button to exit the menu.



SETTING THE CLOCK



Your TV comes with an onscreen clock. You will need to set the clock before you can use the Timer feature. During normal operation, the time appears on the screen when you press the STATUS/EXIT button. You can show the time on screen constantly by turning the TIMER DISPLAY control on (see page 38).

For instructions on setting the Timer's START and STOP times, see page 39. Then go to pages 40 and 41 to learn how to select the Timer's channel and activate the Timer.

NOTE: You can access the TIME (clock) feature directly by pressing the Clock button on the remote control.

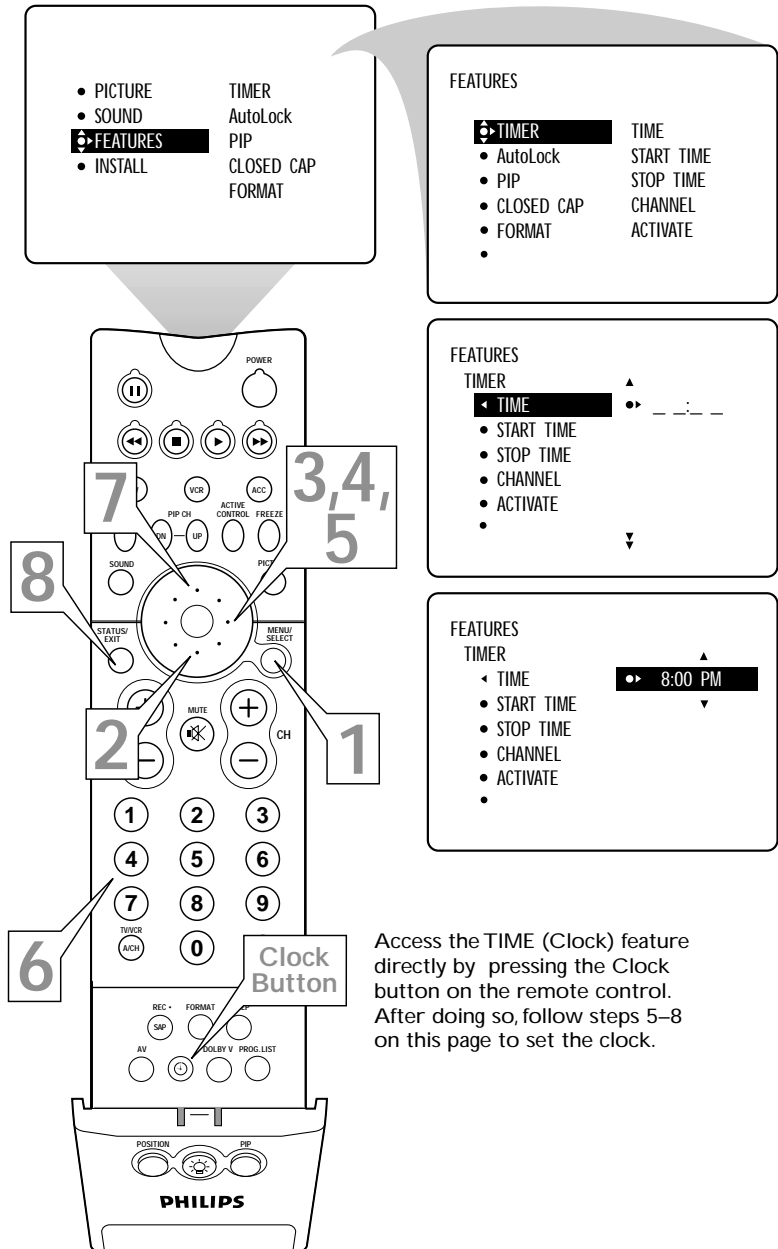
BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** twice to highlight FEATURES.
- 3** Press the **CURSOR RING RIGHT** to enter the FEATURES submenu.
- 4** Press the **CURSOR RING RIGHT** again to shift the display left and highlight the TIME control.
- 5** Press the **CURSOR RING RIGHT** again to highlight the time indicator area.
- 6** Press the **NUMBER** buttons to enter the correct time. If you make a mistake entering the time, press the **CURSOR RING LEFT** or **RIGHT** to move among the input slots to make corrections.
- NOTE:** You can also press the **CURSOR RING UP** or **DOWN** to cycle through digits to input the time.
- 7** Press the **CURSOR RING UP** or **DOWN** to select AM or PM.
- 8** Press the **STATUS/EXIT** button to exit the menu.



HELPFUL HINTS

- For single-digit entries, be sure to press 0 first and then the hour number.
- If you'd like, set the clock automatically using the AutoChron™ feature (page 5, *Quick Use and Setup Guide*).
- Clock settings may be lost when the TV is unplugged or when AC power to the set is interrupted.





DISPLAYING THE TIME

After you have set the TV's clock, you can use your TV to keep up with the time on screen. You can also set the timer to switch to another channel, and, if you want, turn the TV off. The Timer's **DISPLAY** control allows you to show the time constantly in the upper right corner of the screen.

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
- 3** Press the **CURSOR RING RIGHT** to enter the **FEATURES** submenu.
- 4** Press the **CURSOR RING RIGHT** again. Then press the **CURSOR RING DOWN** repeatedly until the **DISPLAY** control is highlighted.
- 5** Press the **CURSOR RING RIGHT** or **LEFT** to turn the **TIMER DISPLAY** ON or OFF.
- 6** Press the **STATUS/EXIT** button to exit the menu.



- PICTURE
- SOUND
- **FEATURES**
- INSTALL

- TIMER
- AutoLock
- PIP
- CLOSED CAP
- FORMAT

FEATURES

- **TIMER**
- AutoLock
- PIP
- CLOSED CAP
- FORMAT
-

- TIME
- START TIME
- STOP TIME
- CHANNEL
- ACTIVATE

FEATURES

TIMER

- **TIME**
- START TIME
- STOP TIME
- CHANNEL
- ACTIVATE
-

8:06 PM

FEATURES

TIMER

- START TIME
- STOP TIME
- CHANNEL
- ACTIVATE
- **DISPLAY**

ON

OR

OFF

SETTING THE TIMER'S START TIME AND STOP TIME



You can set the Timer to switch to a selected channel at a specific time while you are watching another channel, or when the TV is in standby mode. (Standby mode is when the TV is plugged into the wall outlet but turned off.) If you want, you can also set the TV to turn off at some time after the TV switches channels. Follow the steps below to set the Timer's START TIME and STOP TIME.

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** twice to highlight FEATURES.
- 3** Press the **CURSOR RING RIGHT** to enter the FEATURES submenu.
- 4** Press the **CURSOR RING RIGHT** again. Then press the **CURSOR RING DOWN** once to highlight the START TIME control.
- 5** Press the **CURSOR RING RIGHT** to highlight the time indicator area.
- 6** Press the **NUMBER** buttons to enter the correct time. If you make a mistake entering the time, use the **CURSOR RING LEFT** or **RIGHT** to move among the time input slots to make corrections.

NOTE: You can also use the **CURSOR RING UP** or **DOWN** to cycle through digits to input the time.
- 7** Press the **CURSOR RING UP** or **DOWN** to select AM or PM.
- 8** Press the **CURSOR RING LEFT** repeatedly until START TIME is highlighted. Then press the **CURSOR RING DOWN** to highlight STOP TIME. If you want the TV to switch off at some time after the changing of channels, follow steps 5–7 above to set the STOP TIME.
- 9** Press the **STATUS/EXIT** button to exit the menu.

See pages 40 and 41 for instructions on selecting the Timer's channel and activating the timer.



- PICTURE
- SOUND
- **FEATURES**
- INSTALL

- TIMER
- AutoLock
- PIP
- CLOSED CAP
- FORMAT

FEATURES

- **TIMER**
- AutoLock
- PIP
- CLOSED CAP
- FORMAT
-

TIME
START TIME
STOP TIME
CHANNEL
ACTIVATE

FEATURES
TIMER

- **TIME**
- START TIME
- STOP TIME
- CHANNEL
- ACTIVATE
-

8:06 PM

FEATURES
TIMER

- TIME
- **START TIME**
- STOP TIME
- CHANNEL
- ACTIVATE
-

: : : -

FEATURES
TIMER

- TIME
- **START TIME**
- STOP TIME
- CHANNEL
- ACTIVATE
-

8:00 AM

FEATURES
TIMER

- TIME
- START TIME
- **STOP TIME**
- CHANNEL
- ACTIVATE
-

: : : -

FEATURES
TIMER

- TIME
- START TIME
- STOP TIME
- CHANNEL
- ACTIVATE
-

9:30 AM



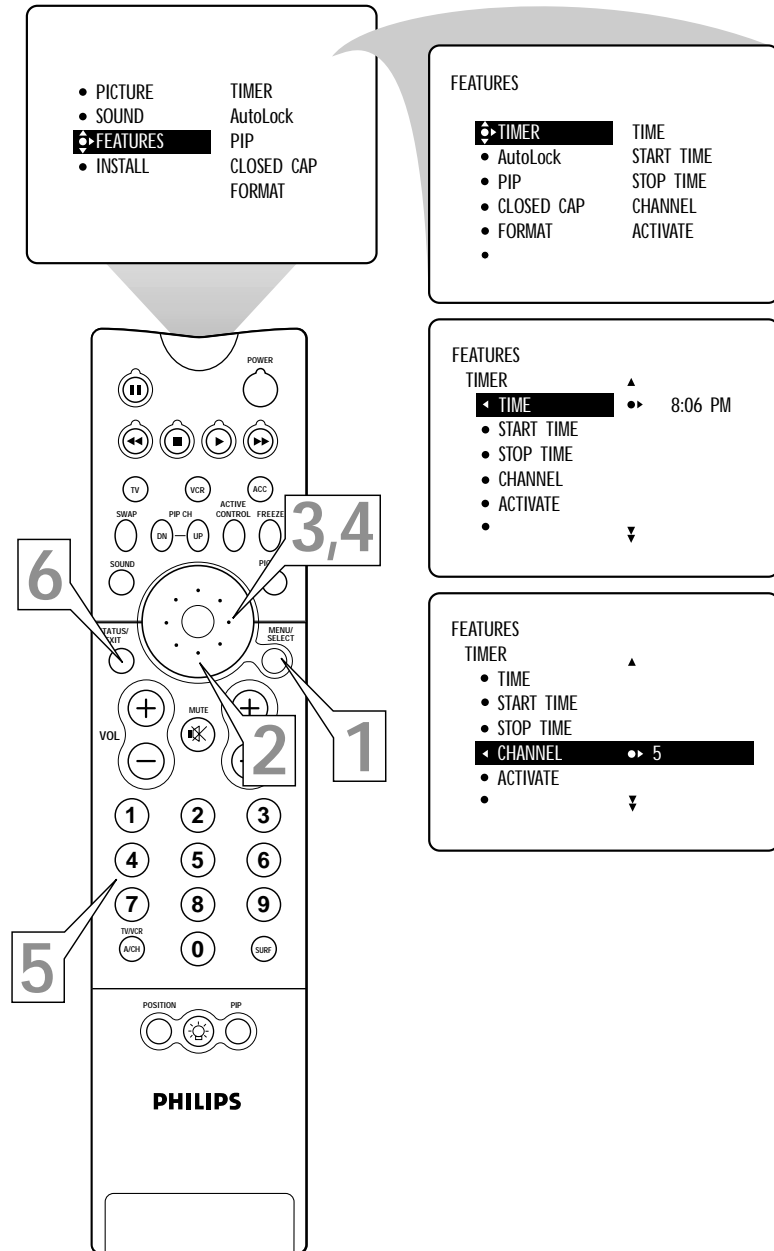
SELECTING THE TIMER'S CHANNEL

Follow these steps to select the channel to which the Timer will switch the TV.

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
- 3** Press the **CURSOR RING RIGHT** to enter the **FEATURES** submenu.
- 4** Press the **CURSOR RING RIGHT**. Then press the **CURSOR RING DOWN** repeatedly until the **CHANNEL** control is highlighted.
- 5** Press the **NUMBER** buttons to enter the desired start-up channel. Or press the **CURSOR RING RIGHT** repeatedly to enter the start-up channel you want.
- 6** Press the **STATUS/EXIT** button to exit the menu.

NOTE: Before the Timer will work, you must activate it. See page 41.



SETTING THE TIMER'S ACTIVATE CONTROL



After you have set the **TIME**, **START TIME**, **STOP TIME**, and **CHANNEL**, you must activate the Timer for it to operate. Your options are to set the Timer to work **ONCE** or **DAILY**. Set **ACTIVATE** to **OFF** if you don't want to use the Timer.

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
- 3** Press the **CURSOR RING RIGHT** to enter the **FEATURES** submenu.
- 4** Press the **CURSOR RING RIGHT** again. Then press the **CURSOR RING DOWN** repeatedly until the **ACTIVATE** control is highlighted.
- 5** Press the **CURSOR RING RIGHT** to cycle through the options and make your selection. The options are **ONCE**, **DAILY**, or **OFF**.
- 6** Press the **STATUS/EXIT** button to exit the menu.



HELPFUL HINTS

- Changing the channel or adjusting the volume during the last minute of a Timer setting will cancel the shutting off of the TV.
- Thirty seconds before the set changes to the channel you set (see page 40), an announcement appears on screen.



The diagram illustrates the process of setting the timer's activate control. It shows a Philips remote control with numbered callouts (1-6) pointing to specific buttons: 1. MENU/SELECT, 2. CURSOR RING DOWN, 3. CURSOR RING RIGHT, 4. CURSOR RING RIGHT, 5. CURSOR RING DOWN, 6. STATUS/EXIT.

The TV screen displays the following sequence of menus:

- Menu 1:** Features list including PICTURE, SOUND, **FEATURES** (highlighted), and INSTALL. Submenu options include TIMER, AutoLock, PIP, CLOSED CAP, and FORMAT.
- Menu 2:** Features > TIMER submenu with options: AutoLock, PIP, CLOSED CAP, FORMAT, and a blank line.
- Menu 3:** Features > TIMER > TIME submenu showing 8:06 PM and options: START TIME, STOP TIME, CHANNEL, and ACTIVATE.
- Menu 4:** Features > TIMER > TIME > ACTIVATE submenu with options: ONCE (highlighted), DAILY, and OFF.



UNDERSTANDING AUTOLOCK™

The AutoLock™ feature can help parents control what their children watch on TV. AutoLock™ does this by using the content advisories sent by broadcasters or other program providers. After you program AutoLock™, it can respond to the content advisories and block programs that contain content that you may consider objectionable—offensive language, violence, or sexual situations. You can also use AutoLock™ to block channels that you don't want your children to watch.

In this 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 on this page are brief explanations of AutoLock™ terms and program ratings.

Terms

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

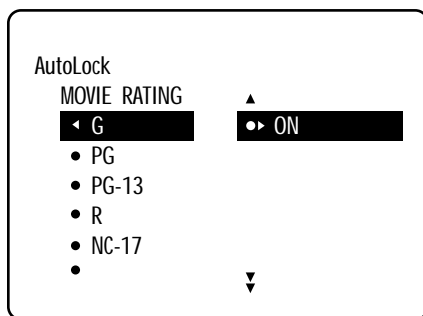
BLOCK UNRATED control—if set to ON, blocks all unrated programs.

Unrated programming consists of the kind of shows that the MPAA (Motion Picture Association of America) or the TV broadcasters have chosen not to rate.

NO RATING control—if set to ON, blocks all programming with no content advisory data.

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.

BLOCK CHANNEL control—enables you to block individual channels that you don't want children to see.



MOVIE RATINGS (MOTION PICTURE ASSOCIATION OF AMERICA)

G (General Audience)—all ages admitted. Most parents will find programs that are rated G to be suitable for children of all ages. Such programs have little or no violence, no strong language, and little or no sexual dialog or sexual situations.

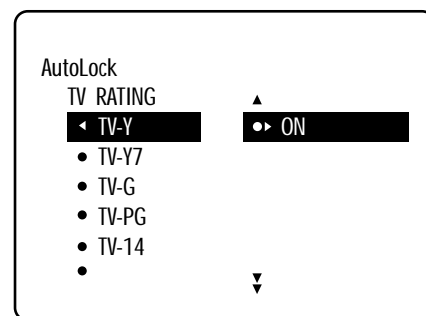
PG (Parental Guidance Suggested)—contain material that parents may find unsuitable for younger children. Programs that are rated PG have one or more of the following: moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialog.

PG-13 (Parents Strongly Cautioned)—contain material that parents may find unsuitable for children under the age of 13. Programs that are rated PG-13 have one or more of the following: violence, sexual situations, coarse language, or suggestive dialog.

R (Restricted)—specifically designed for adults. Anyone under the age of 17 should view programs that are rated R only with an accompanying parent or adult guardian. Such programs have 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)—should be viewed by adults only. Programs that are rated NC-17 have graphic violence; explicit sex; or crude, indecent language.

X (Adults Only)—contain one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, or very coarse and intensely suggestive language.



TV PARENTAL GUIDELINES (TV BROADCASTERS)

TV-Y (All Children)—designed to be appropriate for all children, especially ones ages 2–6. Programs rated TV-Y are not expected to frighten younger children.

TV-Y7 (Directed to Older Children)—designed for children ages 7 and older. Programs rated TV-Y7 may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. Such programs may include mild fantasy and comic violence (FV).

TV-G (General Audience)—most parents will consider programs that are rated TV-G to be suitable for children of all ages. Such programs have little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

TV-PG (Parental Guidance Suggested)—contain material that parents may find unsuitable for younger children. This type of programming has 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)—contain material that many parents will find unsuitable for children under 14 years of age. Such programs have 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)—specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. Such programs have one or more of the following: graphic violence (V); explicit sexual situations (S); or crude, indecent language (L).

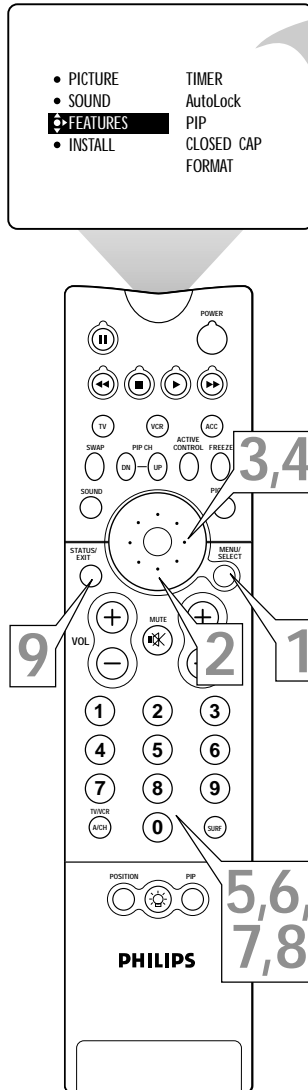
SETTING UP THE AUTOLOCK™ ACCESS CODE



Your AutoLock™ access code allows you to enter the AutoLock™ submenus to set up or turn off blocking. Your access code is also the “key” that unlocks programs or channels that are being blocked by AutoLock™.

BEGIN

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



<ul style="list-style-type: none"> • PICTURE • SOUND • FEATURES • INSTALL 	<ul style="list-style-type: none"> TIMER AutoLock PIP CLOSED CAP FORMAT 	FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	TIME START TIME STOP TIME CHANNEL ACTIVATE	FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	ACCESS CODE - - - -
		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	ACCESS CODE X X X X
		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	ACCESS CODE - - - -
		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	ACCESS CODE X X X X INCORRECT
		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	ENTER NEW CODE - - - -
		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	ENTER NEW CODE X X X X
		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	CONFIRM CODE - - - -
		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	CONFIRM CODE X X X X
		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 		FEATURES <ul style="list-style-type: none"> • TIMER • AutoLock • PIP • CLOSED CAP • FORMAT • 	CONFIRM CODE X X X X CORRECT
		FEATURES <ul style="list-style-type: none"> • BLOCK CHANNEL • NEW CODE • MOVIE RATING • TV RATING • BLOCK OPTIONS 	ENTER NEW CODE X X X X	FEATURES <ul style="list-style-type: none"> • BLOCK CHANNEL • NEW CODE • MOVIE RATING • TV RATING • BLOCK OPTIONS 	CONFIRM CODE X X X X CORRECT

You can also set up a new access code from the main AutoLock™ Submenu using the SETUP CODE option. Simply enter and confirm the new Code to activate it.

HELPFUL HINTS

- An X appears on screen to confirm the receipt of each digit by the TV as you input your AutoLock™ access code.
- 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 you discover that your access code has been changed, you can assume that blocked channels may have been viewed.

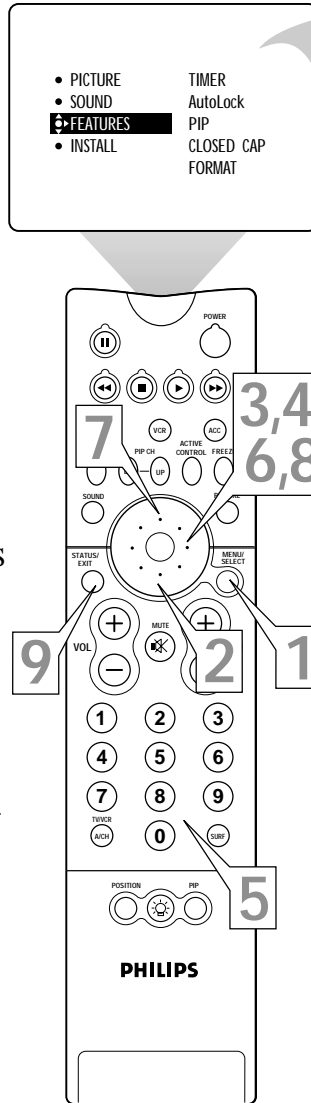


USING AUTOLOCK™ TO BLOCK CHANNELS

After you have set up your personal access code (see page 42), you are ready to select the channels or program sources you want to block.

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
- 3** Press the **CURSOR RING RIGHT**. Then press the **CURSOR RING DOWN** once to highlight the **AutoLock** control.
- 4** Press the **CURSOR RING RIGHT** again to highlight **ACCESS CODE**.
- 5** Enter your four-digit **ACCESS CODE**. **CORRECT** will flash very briefly and the submenu will move to the left with **BLOCK CHANNEL** highlighted.
- 6** Press the **CURSOR RING RIGHT** to highlight the TV's available channels.
- 7** Press the **CURSOR RING UP** or **DOWN** to highlight the channel you want to block.
- 8** Press the **CURSOR RING RIGHT** to block the channel. A padlock image will appear to the right of the channel number. If you decide you don't want to block the channel, press the **CURSOR RING RIGHT** again to remove the block. (The padlock image goes away.)



To block all channels at once, highlight **ALL** in the channel list. Then press the **CURSOR RING RIGHT** to block. Remove the blocks the same way.

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

NOTE: You can highlight the **ALL** option, then press the **CURSOR RING RIGHT** to block all channels at once. Or press the **CURSOR RING RIGHT** to unlock all channels.

- 9** Press the **STATUS/EXIT** button to exit the menu.



HELPFUL HINT

You can use the **BLOCK CHANNEL** control to prevent the viewing of programs coming from a VCR, DVD, or other accessory device connected to any of the audio/video (AV) inputs on the TV.

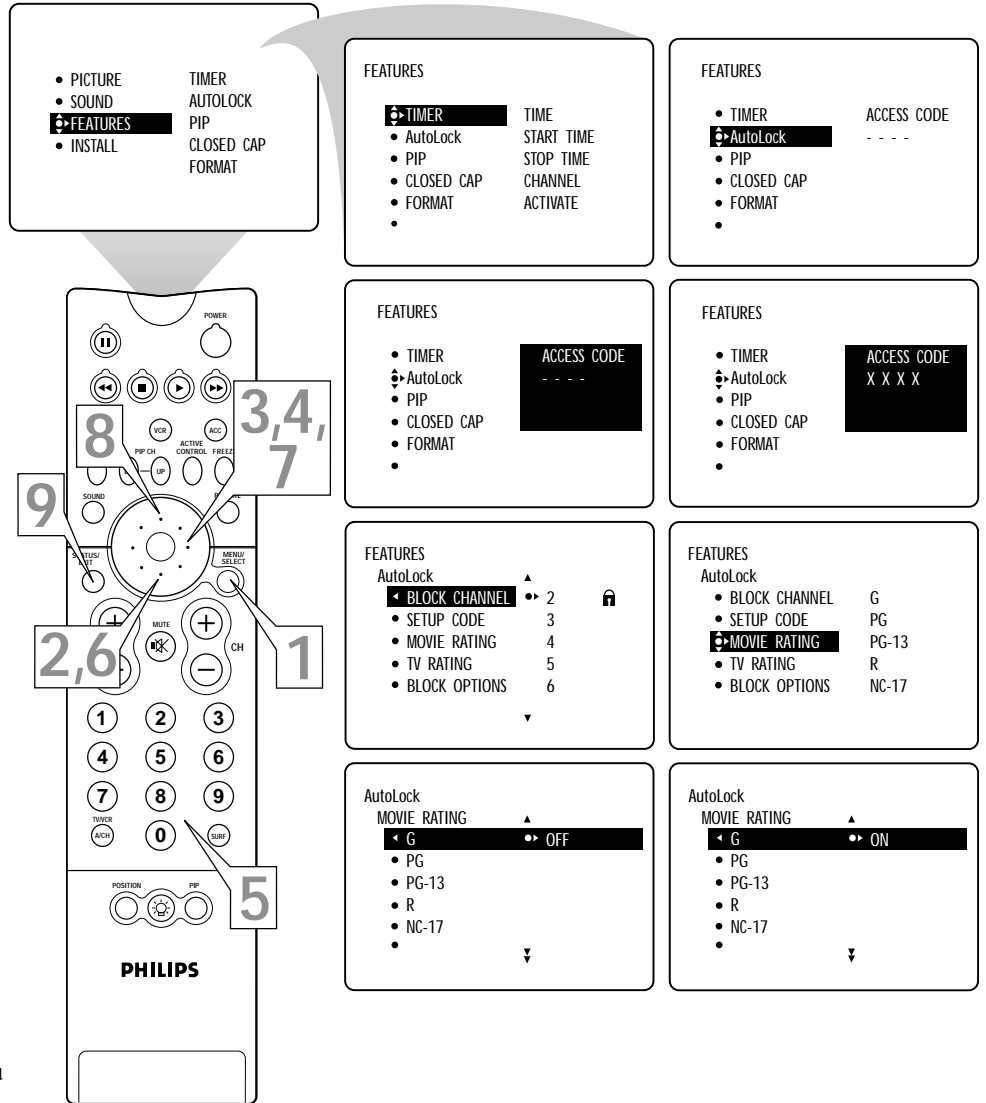
USING AUTOLOCK™ TO BLOCK BY MOVIE RATING



After you have set your personal access code (see page 42), you can block programs by specific movie ratings.

BEGIN

- 1 Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2 Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
- 3 Press the **CURSOR RING RIGHT**. Then press the **CURSOR RING DOWN** once to highlight the **AutoLock** control.
- 4 Press the **CURSOR RING RIGHT** again to highlight **ACCESS CODE**.
- 5 Enter your four-digit **ACCESS CODE**. **CORRECT** will flash very briefly in red and the submenu will move to the left with **BLOCK CHANNEL** highlighted.
- 6 Press the **CURSOR RING DOWN** repeatedly until **MOVIE RATING** is highlighted.
- 7 Press the **CURSOR RING RIGHT** and the Rating submenu will shift to the left with **G** highlighted.
- 8 Press the **CURSOR RING UP** or **DOWN** to highlight each rating you want. Then press the **CURSOR RING RIGHT** to turn the rating **ON** or **OFF**. Turning the rating **ON** will block such programs from being seen.
- 9 Press the **STATUS/EXIT** button to exit the menu.



HELPFUL HINT

When a rating is set to be turned on (blocked), all higher ratings will also be blocked automatically. For example, if the R rating is turned on, the NC-17 and X ratings also will be turned on.



USING AUTOLOCK™ TO BLOCK BY TV RATING

You also can block programs by specific TV ratings. Follow these simple steps.

BEGIN

- 1 Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2 Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
- 3 Press the **CURSOR RING RIGHT**. Then press the **CURSOR RING DOWN** once to highlight the **AutoLock** control.
- 4 Press the **CURSOR RING RIGHT** again to highlight **ACCESS CODE**.
- 5 Enter your four-digit **ACCESS CODE**.
- 6 Press the **CURSOR RING DOWN** repeatedly until **TV RATING** is highlighted.
- 7 Press the **CURSOR RING RIGHT** to enter the **TV RATING** submenu.
- 8 Press the **CURSOR RING DOWN** or **UP** to select a rating.
- 9 Press the **CURSOR RING 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.
- 10 To access these subratings, press the **CURSOR RING RIGHT**. Press the **CURSOR RING UP** or **DOWN** to select the subrating that you want to block or unblock. Then press the **CURSOR RING RIGHT** or **LEFT** button to turn the block on the subrating **ON** or **OFF**.
- 11 Press the **STATUS/EXIT** button to exit the menu.



TV-Y (All Children)—designed to be appropriate for all children, especially ones ages 2–6. Programs rated TV-Y are not expected to frighten younger children.

TV-Y7 (Directed to Older Children)—designed for children ages 7 and older. Programs rated TV-Y7 may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. Such programs may include mild fantasy and comic violence (FV).

TV-G (General Audience)—likely to be considered suitable for children of all ages. Such programs have little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

TV-PG (Parental Guidance Suggested)—contain material that parents may find unsuitable for younger children. This type of programming has 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)—contain material that many parents will find unsuitable for children under 14 years of age. Such programs have 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)—specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. Such programs have one or more of the following: graphic violence (V); explicit sexual situations (S); or crude, indecent language (L).

TURNING THE AUTOLOCK™ BLOCKING CONTROL ON OR OFF



The **BLOCKING** control can be thought of as the “master switch” for AutoLock™. Use it to turn **ON** or **OFF** all of the settings (based on ratings). This control does not affect channel blocks (see page 44).

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
- 3** Press the **CURSOR RING RIGHT**. Then press the **CURSOR RING DOWN** once to highlight the AutoLock control.
- 4** Press the **CURSOR RING RIGHT** again to highlight **ACCESS CODE**.
- 5** Enter your four-digit **ACCESS CODE**.
- 6** Press the **CURSOR RING DOWN** repeatedly until **BLOCK OPTIONS** is highlighted.
- 7** Press the **CURSOR RING RIGHT** to enter the **BLOCK OPTIONS** submenu. **BLOCKING** will be highlighted.
- 8** Press the **CURSOR RING RIGHT** or **LEFT** to turn **BLOCKING ON** or **OFF**.
- 9** Press the **STATUS/EXIT** button to exit the menu.



The diagram shows a Philips remote control with the following callouts:

- 1**: MENU/SELECT button
- 2,6**: CURSOR RING DOWN button
- 3,4,7,8**: CURSOR RING RIGHT and CURSOR RING DOWN buttons
- 5**: STATUS/EXIT button

The onscreen menu sequence is as follows:

- Menu 1:**
 - PICTURE
 - SOUND
 - FEATURES** (highlighted)
 - INSTALL
 - TIMER
 - AutoLock
 - PIP
 - CLOSED CAP
 - FORMAT
- Menu 2:**
 - FEATURES**
 - AutoLock** (highlighted)
 - AutoLock
 - PIP
 - CLOSED CAP
 - FORMAT
 - TIME
 - START TIME
 - STOP TIME
 - CHANNEL
 - ACTIVATE
- Menu 3:**
 - FEATURES**
 - TIMER
 - AutoLock** (highlighted)
 - PIP
 - CLOSED CAP
 - FORMAT
 - ACCESS CODE
 -
- Menu 4:**
 - FEATURES**
 - TIMER
 - AutoLock** (highlighted)
 - PIP
 - CLOSED CAP
 - FORMAT
 - ACCESS CODE
 - X X X X
- Menu 5:**
 - AutoLock**
 - BLOCK CHANNEL** (highlighted)
 - 2
 - LOCK
 - SETUP CODE 3
 - MOVIE RATING 4
 - TV RATING 5
 - BLOCK OPTIONS 6
- Menu 6:**
 - AutoLock**
 - BLOCK OPTIONS** (highlighted)
 - BLOCKING
 - NO RATING
- Menu 7:**
 - AutoLock**
 - BLOCK OPTIONS**
 - BLOCKING** (highlighted)
 - ON
 - BLOCK UNRATED
 - NO RATING

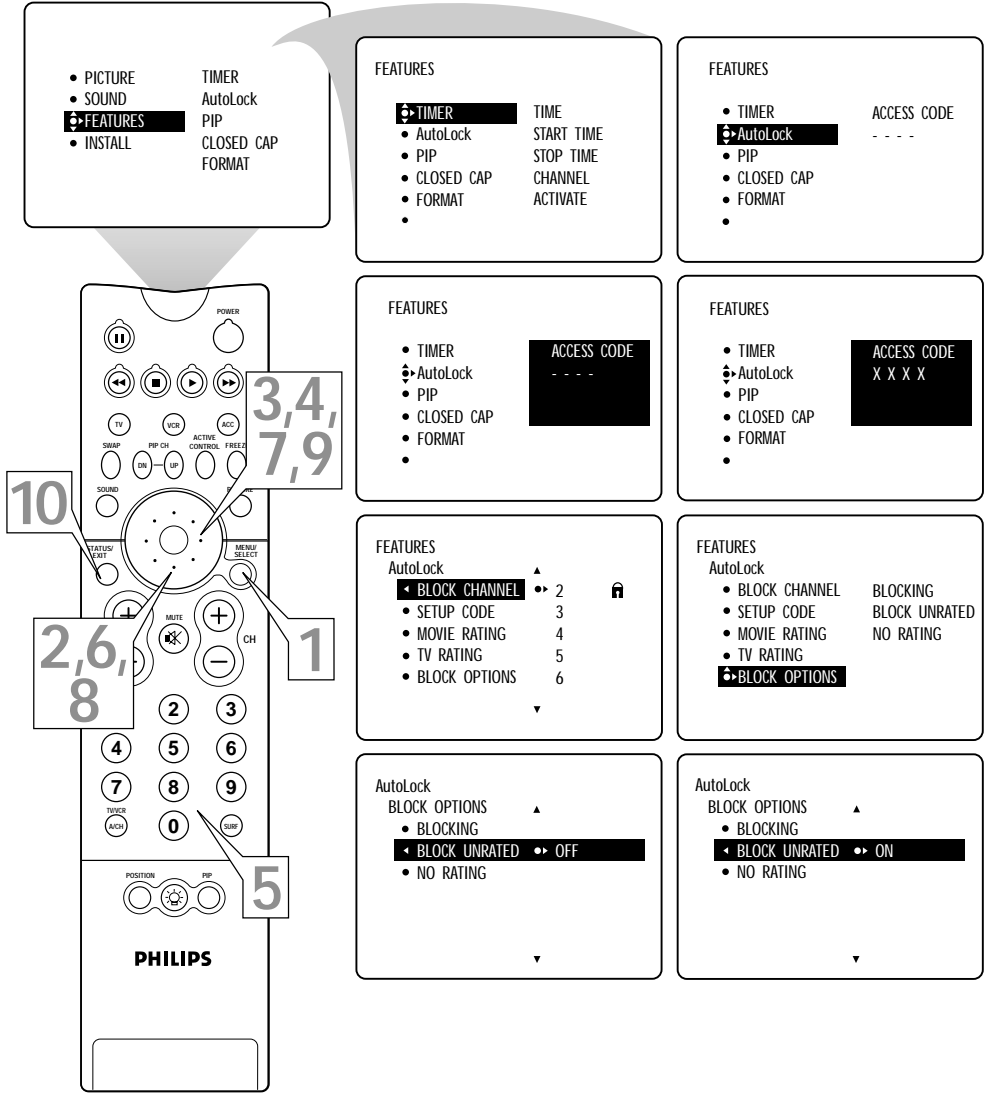


USING AUTOLOCK™ TO BLOCK UNRATED BROADCASTS

In addition to blocking rated programs or channels, you may also choose to block all programming that is unrated. Unrated programming consists of shows that the MPAA (Motion Picture Association of America) or the TV broadcasters have chosen not to rate.

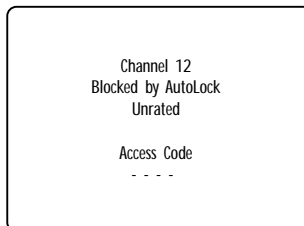
BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
- 3** Press the **CURSOR RING RIGHT**. Then press the **CURSOR RING DOWN** once to highlight the **AutoLock** control.
- 4** Press the **CURSOR RING RIGHT** again to highlight **ACCESS CODE**.
- 5** Enter your **four-digit ACCESS CODE**.
- 6** Press the **CURSOR RING DOWN** repeatedly until **BLOCK OPTIONS** is highlighted.
- 7** Press the **CURSOR RING RIGHT** to enter the **BLOCK OPTIONS** submenu.
- 8** Press the **CURSOR RING DOWN** once to select **BLOCK UNRATED**.
- 9** Press the **CURSOR RING RIGHT** or **LEFT** to turn **BLOCK UNRATED ON** or **OFF**.
- 10** Press the **STATUS/EXIT** button to exit the menu.



HELPFUL HINT

When the **BLOCK UNRATED** control is turned **ON**, attempts to view unrated programs will bring to the screen a message like the one shown to the right. To watch the program, enter your access code or go into the **BLOCK OPTIONS** submenu and turn the **BLOCK UNRATED** control **OFF**.



USING AUTOLOCK™ TO BLOCK BROADCASTS THAT HAVE NO RATING



Some programs contain no content advisory information from the Motion Picture Association of America or the television broadcasters (see page 42). To block programs with no rating, follow these steps.

BEGIN

- 1 Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
- 2 Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
- 3 Press the **CURSOR RING RIGHT**. Then press the **CURSOR RING DOWN** once to highlight the AutoLock control.
- 4 Press the **CURSOR RING RIGHT** again to highlight the **ACCESS CODE** input area.
- 5 Enter your **four-digit ACCESS CODE**.
- 6 Press the **CURSOR RING DOWN** repeatedly until **BLOCK OPTIONS** is highlighted.
- 7 Press the **CURSOR RING RIGHT** to enter the **BLOCK OPTIONS** submenu.
- 8 Press the **CURSOR RING DOWN** twice to highlight **NO RATING**.
- 9 Press the **CURSOR RING RIGHT** or **LEFT** to turn **NO RATING** ON or OFF.
- 10 Press the **STATUS/EXIT** button to exit the menu.

- PICTURE
- SOUND
- **FEATURES**
- INSTALL

TIMER
AutoLock
PIP
CLOSED CAP
FORMAT

FEATURES

- **TIMER**
- AutoLock
- PIP
- CLOSED CAP
- FORMAT
-

TIME
START TIME
STOP TIME
CHANNEL
ACTIVATE

FEATURES

- TIMER
- **AutoLock**
- PIP
- CLOSED CAP
- FORMAT
-

ACCESS CODE
- - - -

FEATURES

- TIMER
- **AutoLock**
- PIP
- CLOSED CAP
- FORMAT
-

ACCESS CODE
X X X X

FEATURES

- TIMER
- **AutoLock**
- PIP
- CLOSED CAP
- FORMAT
-

ACCESS CODE
- - - -

FEATURES

AutoLock

- **BLOCK CHANNEL**
- SETUP CODE
- MOVIE RATING
- TV RATING
- BLOCK OPTIONS

2 3 4 5 6

FEATURES

AutoLock

- BLOCK CHANNEL
- SETUP CODE
- MOVIE RATING
- TV RATING
- **BLOCK OPTIONS**

BLOCKING
BLOCK UNRATED
NO RATING

AutoLock

BLOCK OPTIONS

- BLOCKING
- BLOCK UNRATED
- **NO RATING**
- OFF

AutoLock

BLOCK OPTIONS

- BLOCKING
- BLOCK UNRATED
- **NO RATING**
- ON



HELPFUL HINT

If the **NO RATING** control is turned on, all programs having no content advisory information will activate a screen like the one shown to the right. To watch the channel, enter your access code or turn the **NO RATING** option OFF.

Channel 12
Blocked by AutoLock
No rating
Access Code
- - - -



REVIEWING YOUR CURRENT AUTOLOCK™ SETTINGS

AutoLock™ provides a screen that shows the settings you have selected. Here's how to access the screen.

BEGIN

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. Nonetheless, the subratings 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 to exit the menu.



HELPFUL HINT

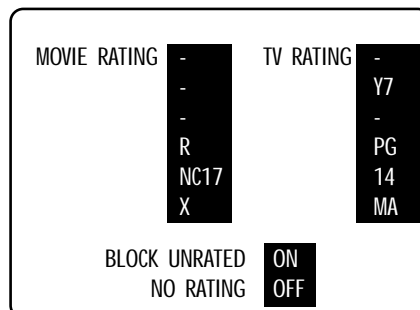
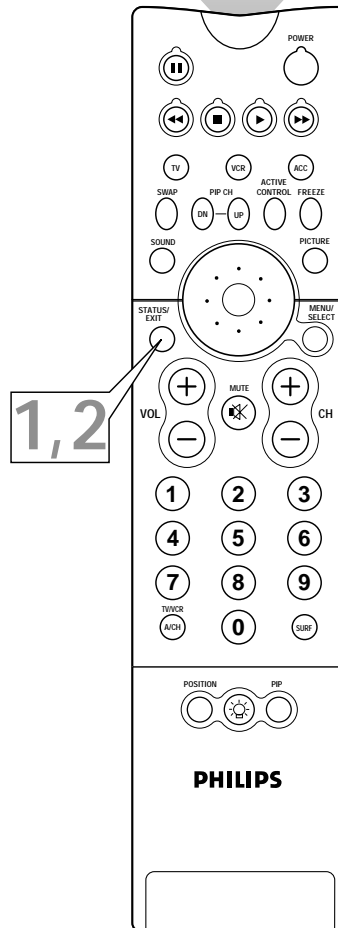
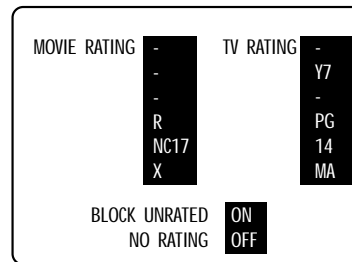
The AutoLock™ review screen will appear only if you have turned ON the BLOCKING control (see page 47).

MOVIE RATING—shows all the movie ratings that you have chosen to block within the MOVIE RATING control. **NOTE:** If a lower rating is blocked, higher ratings will also be blocked automatically. For example, if you block R-rated programs, those that are rated X will also be blocked.

TV RATING—shows all the TV ratings that you have chosen to block within the TV RATING control. **NOTE:** If a lower rating is blocked, higher ratings will also be blocked automatically. For example, if you block TV-PG-rated programs, those rated TV-14 and TV-MA will also be blocked. The TV rating controls also have subratings for Violence (V), Fantasy Violence (FV), Sexual Situations (S), Coarse Language (L), and Suggestive Language (D). If you turn off a main rating but turn on a subrating of that main rating control, programs having the subrating will be blocked; however, the main rating will not appear within the AutoLock review submenu because you did not turn it ON.

BLOCK UNRATED—shows whether you have turned this control ON or OFF.

BLOCK NO RATING—shows whether you have turned this control ON or OFF.



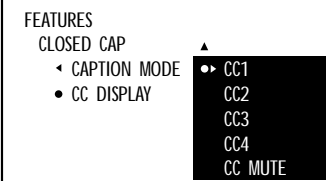
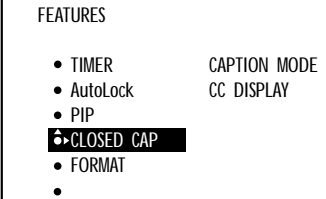
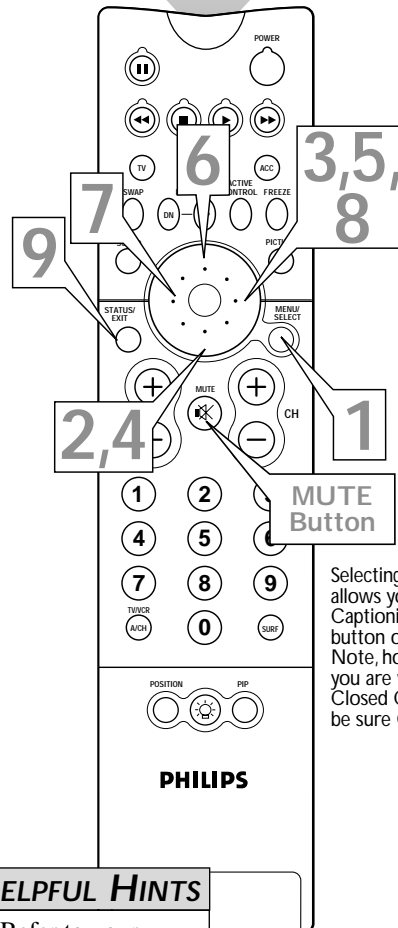
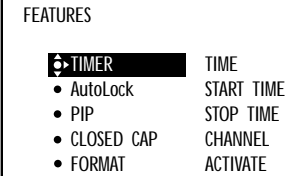
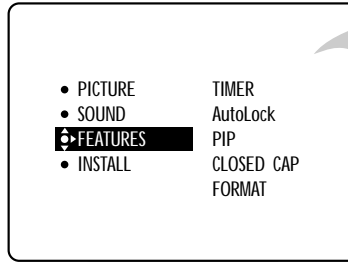
USING THE CLOSED CAPTIONING CONTROL



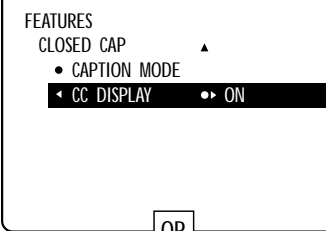
Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen text boxes to show dialogue and conversations while the TV program is in progress.

BEGIN

- 1** Press the **MENU/SELECT** button on the remote control to show the onscreen menu.
 - 2** Press the **CURSOR RING DOWN** twice to highlight **FEATURES**.
 - 3** Press the **CURSOR RING RIGHT** to enter the **FEATURES** submenu.
 - 4** Press the **CURSOR RING DOWN** repeatedly until the **CLOSED CAP** control is highlighted.
 - 5** Press the **CURSOR RING RIGHT**. The submenu will shift to the left and **CAPTION MODE** will be highlighted. Then press the **CURSOR RING RIGHT** again to highlight the **CAPTION MODEs** area.
 - 6** Press the **CURSOR RING UP** or **DOWN** to select a **CAPTION MODE**.
- NOTES:**
- CC1 mode is the usual setting. CC2, CC3, and CC4 may not be supported by broadcast stations.
 - The **CC MUTE** option turns the Closed Captioning mode on whenever the **MUTE** button on the remote control is pushed. Select **CC MUTE** in the onscreen submenu to turn this feature on.
- 7** Press the **CURSOR RING LEFT** to return to the **CLOSED CAP** submenu. Then press the **CURSOR RING DOWN** to highlight **CC DISPLAY**.
 - 8** Press the **CURSOR RING RIGHT** to turn the onscreen display of Closed Captioning on or off. Closed Captioning will be shown only if the TV station broadcasting on the channel has the feature available.
 - 9** Press the **STATUS/EXIT** button to exit the menu.



Selecting the **CC MUTE** option allows you to display Closed Captioning by pressing the **MUTE** button on the remote control. Note, however, that the program you are watching must be providing Closed Captioning. You must also be sure **CC DISPLAY** is turned **ON**.



OR



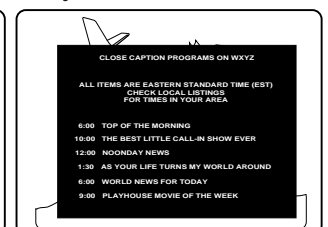
HELPFUL HINTS

- Refer to your area's TV program listings for the stations and times of shows being broadcast with Closed Captioning.
- Broadcasters determine the content of captions. Any occurrences of misspellings, incorrect grammar, or strange characters are not the result of TV malfunction.

CAPTION Mode
Example Display



TEXT Mode
Example Display
The TV program is blocked by the Text screen.



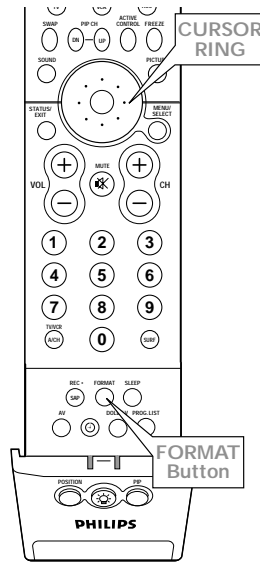


USING THE PICTURE-FORMAT CONTROL

The TV's picture-format options allow flexibility in displaying video sources. The choices for the high-definition (HD) inputs (AV4) are 4:3 and Compress 16:9. The options for TV, AV1, CVI, AV2, and AV3 (side-panel inputs) are 4:3, AUTO, and EXPAND 4:3. See the descriptions of the options to the right and illustrations of them below.

Selecting a Picture Format Using the Remote Control

While watching a video source—with no onscreen menu or display present—press the CURSOR RING RIGHT or LEFT until you select the picture format you want. Or press the FORMAT button to perform the same function.



Picture-format Options

NOTE: Your TV's screen has what is referred to as a 4:3 aspect ratio, which is conventional, standard size.

Use the **4:3** picture-format option to view standard-size, full-screen video sources. The 4:3 format is the one most commonly used by broadcast stations.

AUTO zooms the picture. Detects the presence of black borders in widescreen-format movies and fills the screen as much as possible, reducing the size of—or eliminating—the black borders. When you select AUTO while watching widescreen-format movies on commercial television, AUTO expands the picture, automatically readjusts the picture for correct viewing when commercials appear, and then returns the picture to expanded mode when the movie reappears. AUTO provides a more expansive zoom than EXPAND 4:3.

EXPAND 4:3 zooms the picture. Use to expand a widescreen-format movie picture broadcast on commercial TV, reducing the size of—or eliminating—black borders.

COMPRESS 16:9 squeezes the picture, forming black borders. Allows you to show high-definition video signal sources of the highest resolution (called 1080i) in their original widescreen (16:9) format, thus providing a more natural-looking picture. This option is available with the AV4 source only.



COMPRESS (16:9) (Available Only with the AV4 Source)

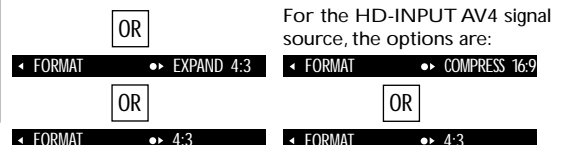
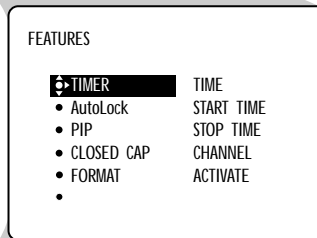
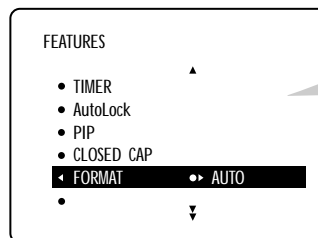
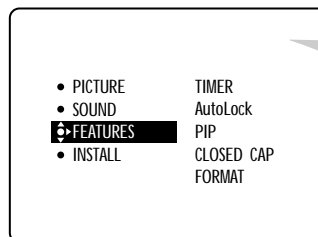


Selecting a Picture Format Using the TV Buttons

Should your remote control become lost or otherwise unavailable for use, follow the steps below to use the buttons on the front of the TV to access the onscreen menu and select a picture-format control.

BEGIN

- 1 Press the Volume + and – buttons simultaneously. The onscreen menu appears.
- 2 Press the Channel Down button repeatedly until FEATURES is highlighted. Then press the Volume + button to enter the FEATURES submenu.
- 3 Press the Channel Down button repeatedly until FORMAT is highlighted. Then press the Volume + or – button until you select the picture format you want.
- 4 Press the Volume + and – buttons simultaneously and repeatedly until you back out of the menu screens.



WARNING

To prevent uneven picture-tube aging, do not leave nonmoving images or black borders on the screen for an extended period. See page 57.

USING ACTIVE CONTROL™



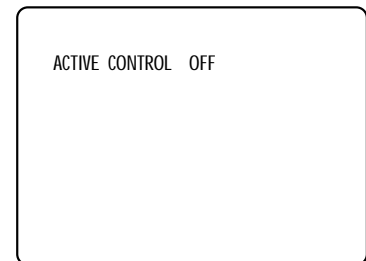
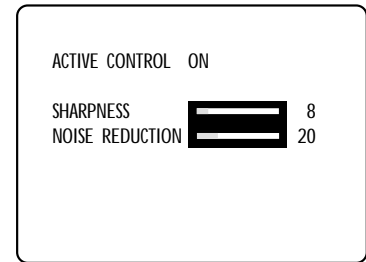
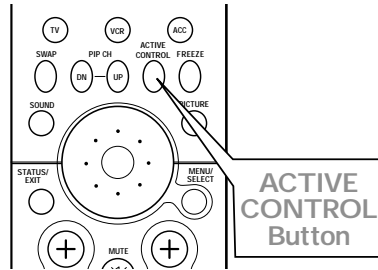
Active Control™ Measures and corrects all incoming signals to provide the best picture-quality settings.

When you choose to turn Active Control™ on, picture sharpness and noise reduction are controlled automatically. Active Control™ adapts picture settings continuously and automatically.

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

Turning Active Control™ on or off Using the Remote Control

While watching TV, press the ACTIVE CONTROL button on the remote control to turn the feature on or off. When Active Control™ is on, the onscreen display shows the up-to-the-moment picture Sharpness and Noise Reduction settings.



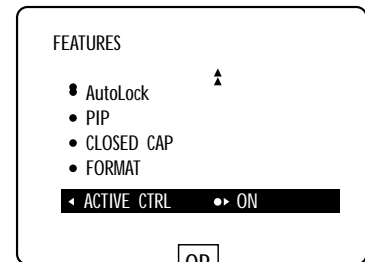
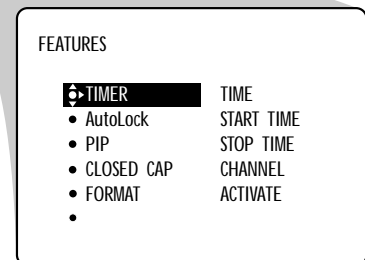
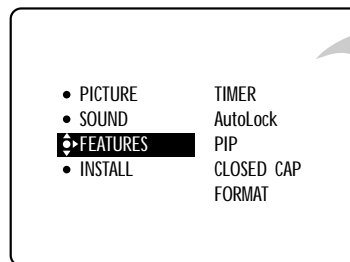
Turning Active Control™ on or off Using the TV Buttons

Should your remote control become lost or otherwise unavailable for use, follow the steps below to use the buttons on the front of the TV to access the onscreen menu and turn Active Control™ on or off.

BEGIN

- 1** Press the **Volume +** and **–** buttons **simultaneously**. The onscreen menu appears.
- 2** Press the **Channel Down** button **repeatedly** until **FEATURES** is highlighted. Then press the **Volume +** button to enter the **FEATURES** submenu.
- 3** Press the **Channel Down** button **repeatedly** until **ACTIVE CTRL** is highlighted. Then press the **Volume +** or **–** button to turn Active Control™ on or off.
- 4** Press the **Volume +** and **–** buttons **simultaneously** and repeatedly until you back out of the menu screens.

STOP



OR



COMPATIBILITY INFORMATION FOR THE TV'S HIGH-DEFINITION INPUTS

The HD INPUT-AV 4 jacks are designed to accept high-definition signal standards 480p and 1080i as specified by the Electronic Industries Association. They are compatible with some digital equipment having RGB outputs with "sync on green" or RGB with "separate H and V sync." As with HD component video signals, output standards may vary by manufacturer. Refer to the directions-for-use manual for the receiver before connecting.

HELPFUL HINTS

- No industry standards have been established for HD television RGB signal systems, timing, synchronization, and signal strengths. The HD INPUT-AV 4 RGB inputs on your Philips TV will not be compatible with all digital equipment that offers RGB outputs. If the digital equipment you want to connect offers both component video and RGB, component video is the suggested type of connection to use.
- Your TV's onscreen INSTALL submenu provides the option of switching the HD INPUT-AV 4 signal source between YPbPr and RGB color space settings. The option is available only when have selected the AV4 signal source (using the AV button on the remote or the Source Select button on the TV). YPbPr is the default setting. See page 56.

When the Inputs Are Used with Component Video Signals

Y INPUT: 1.0 Vp-p (includes sync), 75 ohms

Pr INPUT: 700m Vp-p, 75 ohms

Pb INPUT: 700m Vp-p, 75 ohms

NOTES:

The Pb INPUT jack can also receive signals from outputs labeled Cb or B-Y.

The Pr INPUT jack can also receive signals from outputs labeled Cr or R-Y.

When the Inputs Are Used with RGB Video Signals

G/Y: 1.0 Vp-p, 75 ohms (compatible with sync on green)

R/Pr: 700 mVp-p, 75 ohms

B/Pb: 700 mVp-p, 75 ohms

H: 3 Vp-p \pm 1.0V, 1 kohm (when using separate H and V sync)

V: 3 Vp-p \pm 1.0V, 1 kohm (when using separate H and V sync).

MODEL SPECIFICATIONS

B
 Appendix

Product Type

Rear-projection HDTV Monitor

Television System

NTSC standard

Channel Coverage

VHF: 2–13

UHF: 14–69

Cable TV: Midband
 Superband
 Hyperband
 Ultraband

Power Source

AC 110V \pm 10%, 60 Hz

Power Consumption

43PP9202: 255 W (average), standby <1 W

50PP9202: 255 W (average), standby <1 W

60PP9202: 255 W (average), standby <1 W

Audio Power

2 x 10 W, 50 Hz–10 kHz at 5% THD (flat response),
 8-ohm load

Speaker Type

4 x 6 oval, 15 W

Video/Audio Terminals

INPUT-AV 1

VIDEO (composite): 1 Vp-p, 75 ohms

AUDIO: 500 mVrms, 30 kohm

COMPONENT VIDEO INPUTS (YPbPr)

Y INPUT: 1.0Vp-p (includes sync), 75 ohms

Pb INPUT: 700mVp-p, 75 ohms

Pr INPUT: 700mVp-p, 75 ohms

(The Pb INPUT jack can also receive signals from outputs labeled Cb or B-Y. The Pr INPUT jack can also receive signals from outputs labeled Cr or R-Y.)

S-VIDEO INPUT (INPUT-AV 1, INPUT-AV2, side panel [AV3])

Y-INPUT: 1 Vp-p (includes sync), 75 ohms

C-INPUT: 300 mVp-p, 75 ohms

INPUT-AV 2

VIDEO (composite): 1 Vp-p, 75 ohms

AUDIO: 500 mVrms, 30 kohm

HD INPUT-AV 4

Component Video YPrPb/RGB (See page 54.)

AUDIO: 500 mVrms, 30 kohm

VIDEO/AUDIO OUTPUT

VIDEO: 1 Vpp, 75 ohms

AUDIO: Fixed: 500 mVrms into $>$ 10 kohm

Variable: 0–2 Vrms into $>$ 10 kohm

Side Panel (AV3)

VIDEO (composite): 1 Vp-p, 75 ohms

AUDIO: 500 mVrms, 30 kohm

HEADPHONE: 1.5 Vrms, 16 ohm

Picture Visible Area

43PP9202: 1092.2 mm

(43 in.)

50PP9202: 1270 mm

(50 in.)

60PP9202: 1524 mm

(60 in.)

Dimensions

43PP9202: 957.6 mm (W) x 1147 mm (H) x 529.6 mm (D)
 (37.7 in. x 45.2 in. x 20.85 in.)

50PP9202: 1132 mm (W) x 1477 mm (H) x 617 mm (D)
 (44.6 in. x 58.2 in. x 24.3 in.)

60PP9202: 1337 mm (W) x 1629 mm (H) x 686.8 mm (D)
 (52.6 in. x 64.1 in. x 27.0 in.)

Weight (does not include carton)

43PP9202: 63.5 kg (140 lb)

50PP9202: 77.1 kg (170 lb)

60PP9202: 87.1 kg (192 lb)

Supplied Accessories

Remote control with two size "AA" batteries.

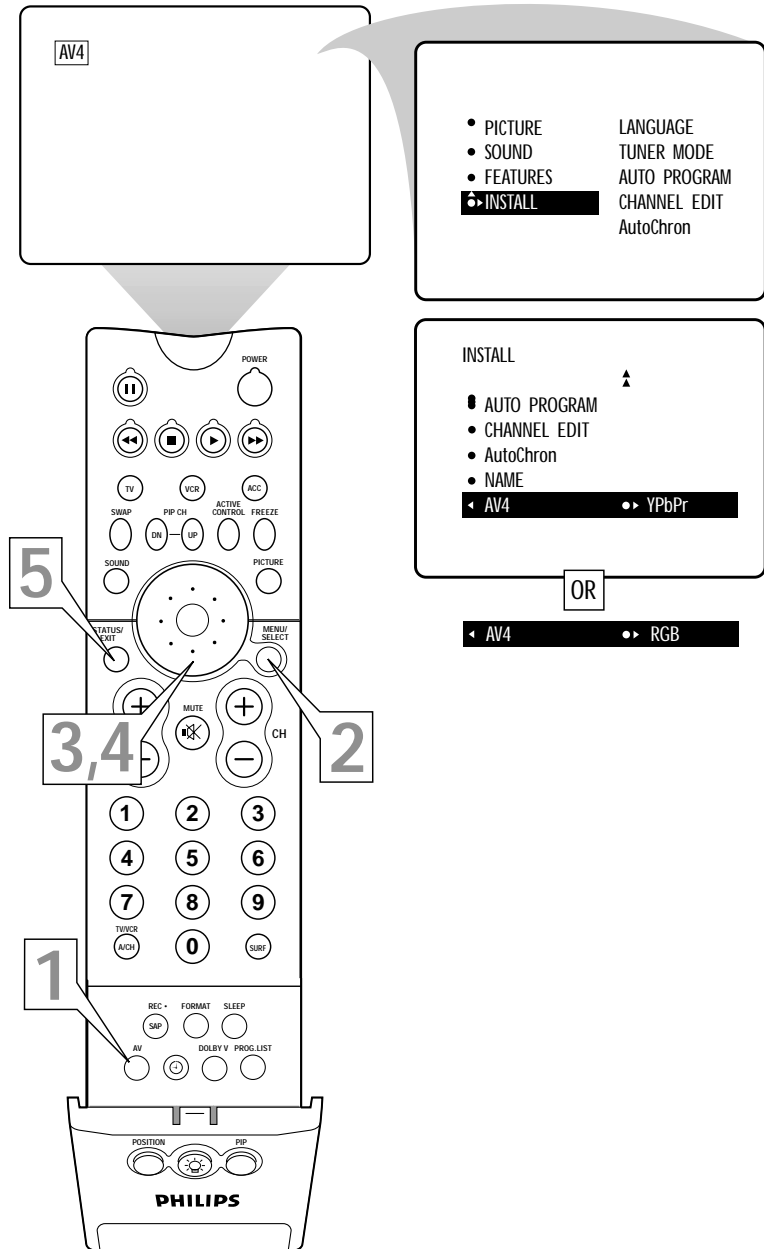
Design and specifications are subject to change without notice.

SELECTING THE HD INPUT-AV 4 COLOR SPACE

Color space refers to how colors are defined and appear on your TV. Your TV's default color-space setting for HD INPUT-AV 4 is YPbPr. RGB is also an option. If the picture's color looks grossly incorrect, try changing the color-space setting on either the digital equipment or the TV. For more information on setting the color space on the digital equipment, see its directions-for-use manual. To set the TV's color space, follow the steps below.

BEGIN

- 1** Press the **AV** button on the remote control until AV4 is selected.
 - 2** Press the **MENU/SELECT** button. The onscreen menu appears.
 - 3** Press the **CURSOR RING DOWN** until **INSTALL** is highlighted. Then press the **CURSOR RING LEFT** or **RIGHT** to enter the **INSTALL** sub-menu.
 - 4** Press the **CURSOR RING DOWN** until **AV4** is highlighted. The current color space is shown (either YPbPr or RGB).
- If you want to change the setting, press the **CURSOR RING LEFT** or **RIGHT**.
- 5** Press the **STATUS/EXIT** button to exit the menu.



CARE AND CLEANING



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. Avoid showing the same stationary images more than 15 percent of your total viewing in any one week. Sources of stationary images may be DVD discs, laser discs, video games, CD-i discs, 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 disc content
- **“Letterbox” black borders**—black bars shown along the edges of the picture when a widescreen (16:9) movie is played on TV
- **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.

All picture tubes age with use, with their light output diminishing over time. But by maintaining normal use—mixing television picture types—you will create conditions in the tubes age at an even rate. The result will be a TV picture that is evenly bright over the entire 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.
Specially designed screen-cleaning kits are also available. These kits contain anti-static cleaners and cloths designed to get into the ridges of the TV screen. Purchase the kits at stores that sell electronics. Or call our Customer Care Center at 1-800-531-0039.
- 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.



TROUBLESHOOTING

Check This List of Symptoms and Possible Solutions Before Requesting Service

You may be able to solve the problem yourself. Charges for TV installation and adjustment of customer controls are not covered under your warranty. If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representative will be happy to assist you. **To reach our Customer Care Center, call 1-800-531-0039.**

Difficulties and Possible Solutions (*Q refers to the *Quick Use and Setup Guide* that came with your TV.)

The TV remote control does not work

- Check that the batteries are installed correctly. *See page Q-2*.*
- If the batteries are dead, replace them with two “AA” size heavy duty (zinc chloride) or alkaline batteries. *See page *Q-2.*
- Be no farther than 30 feet from the TV when using the remote control and point the remote toward the remote-sensor window on the TV. *See page *Q-2 for the location of the remote-sensor window.*
- Clean the remote control and the remote-sensor window on the TV. *See page *Q-2 for the location of the remote-sensor window.*
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the remote power or TV power/standby button again. *To locate the TV power/standby button, see page *Q-2.*
- If you have your TV plugged into an AC power strip, ensure that the fuse on the power strip is not blown.
- Check to see if the TV is on a wall switch.

The TV has no power

- Check the TV’s power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the remote-control power or TV power/standby button again. *The location of the TV power/standby button is illustrated on page *Q-2.*
- Check that the outlet is not on a wall switch.
- If you are using an AC power strip, be sure the fuse on the power strip is not blown.

You cannot get a picture

- Be sure that you have made signal connections correctly and securely. *See pages *Q-1, *Q-2, 6–8, and 10–14.*
- Check the Tuner Mode control for the correct tuner setting. *See page *Q-4.*
- Try running the Auto Program feature. *See page *Q-4.*
- Ensure that you have selected the correct picture signal source using the AV (remote) or Source Select (TV) buttons. *See page 22.*
- If you are attempting to view a picture from a progressive-scan-capable DVD player connected to the HD INPUT-AV 4 jacks, ensure that you have switched the DVD player to progressive-scan mode. *See 11, as well as the DVD player’s directions-for-use manual.*
- If you are using an HD receiver, ensure that its output is set correctly (HD or SD) based on the connection to the TV you have made. *Refer to the directions-for-use manual that came with the HD receiver.*

Picture is fuzzy or out of focus

- Check the set’s convergence and adjust if necessary. *See page *Q-8.*

You cannot see a picture when you play a VCR tape

- Press the AV button on the remote control or the Source Select button on the TV until you have selected the source to which you connected the VCR. *See page 22 (AV button on remote control) or page *Q-2 (Source Select button on TV).*

You cannot access a particular channel

- Use the number buttons on the remote instead of the CH +/- buttons. *See page *Q-3 (remote-control buttons).*
- If necessary, select the Tuner Mode and run Auto Program to store channels to the set’s memory. *See page *Q-4.*

You see scrolling images

Check to ensure that you have made connections correctly. *See pages *Q-1, *Q-2, 6–8, and 10–14.*

The picture has no color or colors are not correct

- Check to ensure that you have made connections correctly. *See pages *Q-1, *Q-2, 6–8, and 10–14.*
- If you have connected digital equipment to the HD inputs, check/change the color-space setting on the equipment or TV. *See page 56.*
- If the picture has red or blue fringes, you may need to adjust the convergence. *See page *Q-8.*

You are not able to get sound

- Check the Volume buttons on the remote control or on the TV. *See pages *Q-2 (TV buttons) and *Q-3 (remote-control buttons).*
- Check the Mute button on the remote. *See page *Q-3 for the location of the Mute button.*
- Check the Audio Out and Speaker controls. *See page 9.*
- If you have connected auxiliary equipment, check to ensure that you have made the audio connections correctly. *See pages 6–14. (If you have connected an external audio hi-fi system, see page 9 to ensure that you have made the connections and set the AUDIO OUT control correctly.)*
- If using a DVD player, check the sound settings through the DVD disc’s menu.

TV displays wrong channel or no channels above 13

- Try selecting the channel again.
- Add the desired channel numbers into the TV using the Channel Edit control. *See page *Q-5.*
- Check to ensure that the Tuner Mode is properly set. *See page *Q-4.*



GLOSSARY OF TELEVISION TERMS

Active Control™ • Proactive video-control system for NTSC (see definition below) sources. Active Control™ continuously measures and corrects the incoming signals to provide the best picture possible.

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

ATSC • Advanced Television Systems Committee, the U.S. committee (reporting to the FCC [Federal Communications Commission]) that has specified a set of American digital TV standards. There are 18 voluntary ATSC video formats.

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

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

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

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

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

Comb Filter • TV filter that removes distortion, resulting in a sharper and purer color display. The comb filter addresses the annoying cross-color distortion that may occur in TV broadcasts when, for example, the presenter wears a striped or checked jacket.

Component Video Inputs • Inputs that allow the separate reception of blue, red, and luminance signals. These inputs provide the highest possible color and picture resolution in the playback of digital signal-source material, such as the kind available from DVD players. Component video inputs allow for improved bandwidth information not possible through composite video or S-Video connections.

Composite Video Input • An input in which all the components required for displaying the onscreen image are combined in one signal.

Convergence • The technique used in color TV for bringing the red, green, and blue color beams together so that they hit the same part of the picture-tube screen at the same time. This avoids color fringes around images in the picture.

High-definition Television (HDTV) • High-resolution digital television. HDTV is high-resolution digital television. It has life-like pictures, and with it films retain their original width, enhancing the home theater experience.

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

Interlaced • A picture-scanning technique that improves the appearance of onscreen motion. It also helps smooth jagged lines that are sometimes seen on curved and angled surfaces in the picture.

Menu • An onscreen list of feature controls available for you to adjust or set.

NTSC • National Television Standards Committee format devised in the 1940s for TV broadcast analog video signals (525 lines: 30 Hz).

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

Picture-in-Picture • The showing of two pictures on the TV screen at the same time (one main screen picture and one small picture, or PIP).

Progressive Scan • A picture-scanning technique that doubles the number of picture lines, eliminating the flicker and providing a jitter-free picture.

PTV • Projection Television. (Rear- and/or front-projection design systems are available.)

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

RGB • Red, green, and blue signal. These are the primary colors of light that are used to produce a picture in television. By mixing levels of R, G, and B, all colors (chrominance and luminance) are reproduced.

RF • Radio Frequency or modulated signal design used as the carrier for television broadcasts.

Second Audio Program (SAP) • An additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. A monaural soundtrack included within the recorded or video signal (usually containing a second language translation for the displayed programming).

Status/Exit Button • Remote-control button that, when pressed, shows the current channel number, name (if set), time (if set), Sleep Timer setting, and sound setting (stereo, mono, SAP, or mute). Pressing the button twice shows the current AutoLock™ settings. Pressing the button once when an onscreen display is showing removes the onscreen display. You can use Status/Exit rather than having to wait for the displays to "time out," or automatically disappear from the screen.

S-Video Input • Signal input that allows direct connection of high-resolution video sources, such as a satellite receiver, DVD player, S (Super)-VHS videocassette recorder, or video games. Provides improved picture resolution, sharpness, and clarity.

1080i • The highest vertical resolution defined for ATSC (see definition on this page). The format 1080i has 1920 x 1080 pixels.

Tint • TV function that allows you to change the general color balance between cool and warm. Adjust tint according to your personal preference.

Twin-lead Wire • The more commonly used name for the two-strand, 300-ohm antenna wire used with many indoor and outdoor antenna systems. In many cases, this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75-ohm input terminals designed into the more recent TVs and VCRs.

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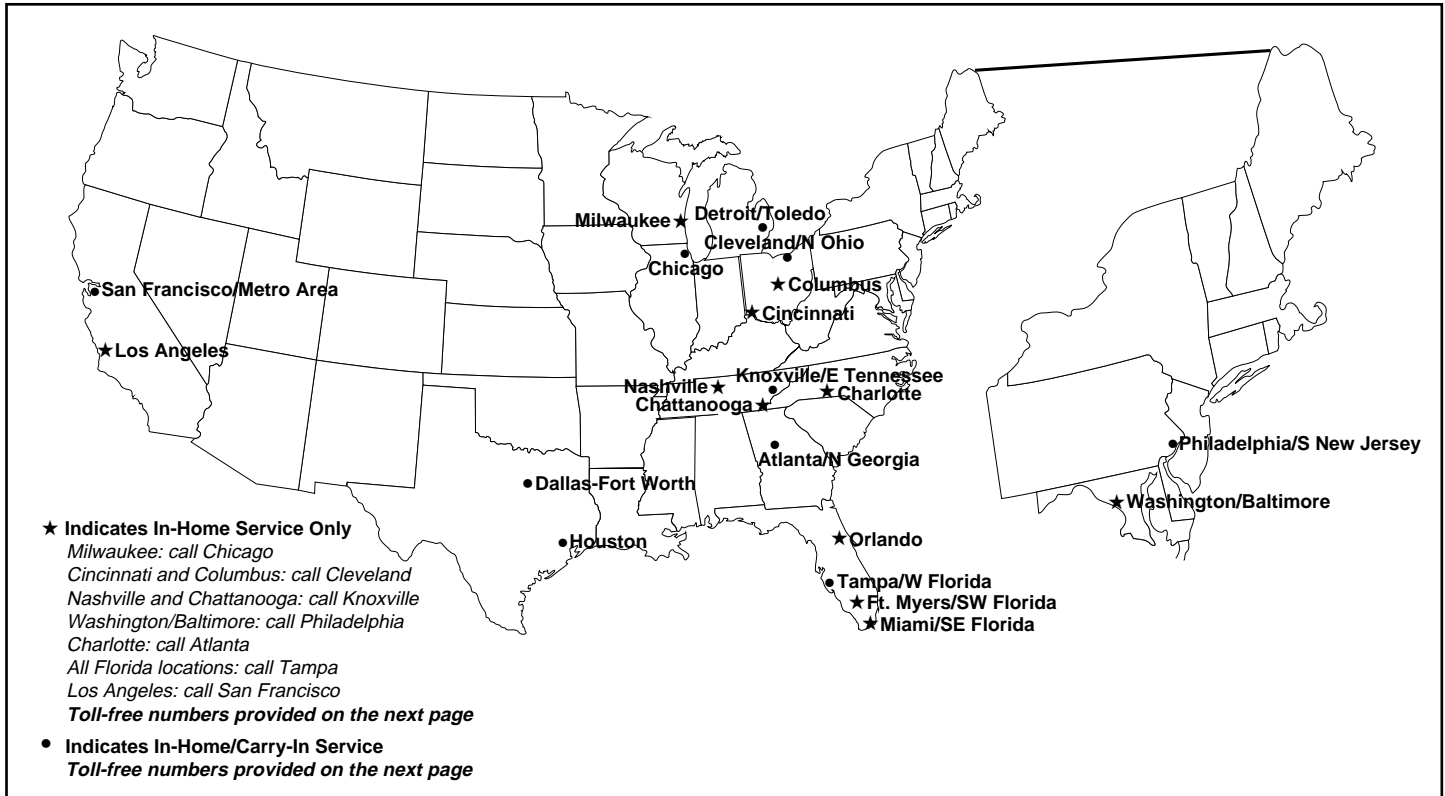
Y

YPbPr Color Space Setting (See HD INPUT-AV4 Color Space Control)

*Q refers to the *Quick Use and Setup Guide* that came with your TV.



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)

1-800-531-0039 (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

Veillez contacter philips à:

1-800-661-6162 (Francophone)

1-800-531-0039 (Anglais ou Espagnol)

En la 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 (Francés)

1-800-531-0039 (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 APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

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

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-FORT WORTH

Philips Factory Service
415 N. Main Street, #107
Eules, 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

PROJECTION TELEVISION

One Year Free Labor

One Year Free Service on Parts

Two Years Free Service on Cathode Ray Tube Parts / 30 days Free Service on Projection TV Screen

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 one year thereafter (30 days for the projection TV screen), all parts will be repaired or replaced, and labor and transportation are free. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the cathode ray tube and the "Clear-Vu" lens, and for all labor and transportation charges. After two years from the day of purchase, you pay for the replacement or repair of all parts except the "Clear-Vu" lens (which is guaranteed against manufacturer's defects for the life of the product), and for all labor and transportation 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...

Repair must be performed by an authorized service center or a factory service center. *If you do not live near a factory service center*, contact your dealer. If your dealer is an authorized service center, he will arrange repair. If your dealer is not an authorized service center, he will direct you to the authorized service center engaged by him to service the products he sells.

(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.)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

IF YOU HAVE QUESTIONS...

Please contact Philips at:

- 1-800-661-6162, if calling from Canada (French Speaking)
- 1-800-531-0039, if calling from Canada (English or Spanish Speaking)
- 1-800-531-0039, if calling from the USA (English or 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 Consumer Electronics, P.O. Box 520890, Miami, FL 33152, (402) 536-4171

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