Color TV

Directions for Use

Important!
Return your
Warranty
Registration Card
within 10 days.
See why inside.

Need help? Call us!

Philips representatives are ready to help you with any questions about your new product. We can guide you through Connections, First-time Setup, or any of the Features. We want you to start enjoying your new product right away!

CALL US BEFORE YOU CONSIDER RETURNING THE PRODUCT.

1-800-531-0039

or

Visit us on the web at www.philips.com

Let's make things better.

PHILIPS

3121 235 20911

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

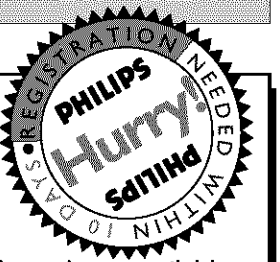
Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

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

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.

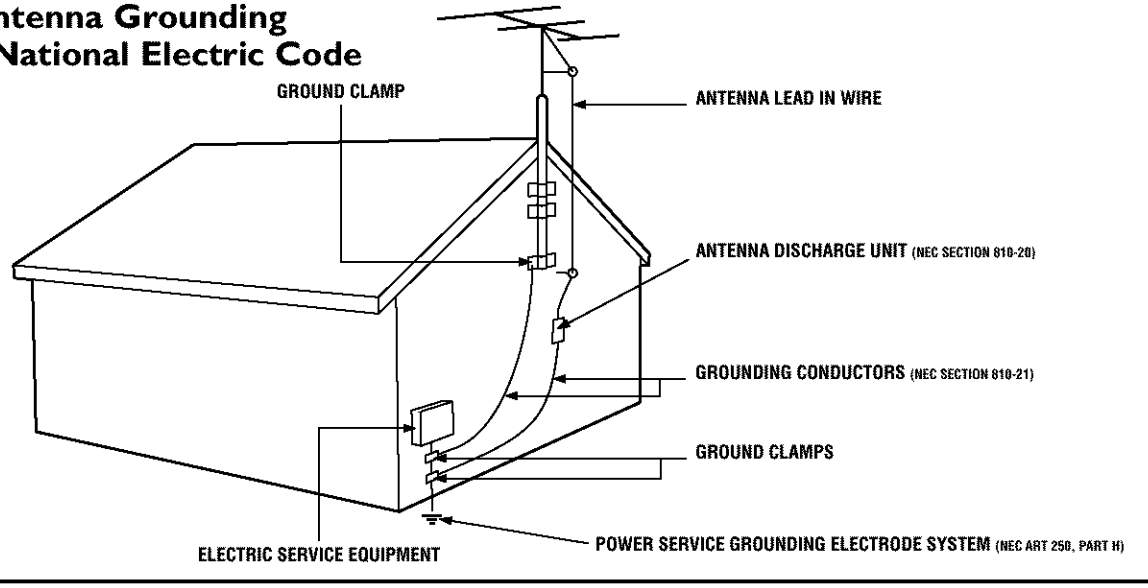
ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

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

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

Example of Antenna Grounding as per NEC - National Electric Code



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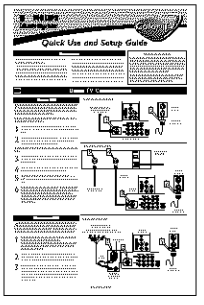
QUICK USE AND SETUP GUIDE

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

- Basic TV connections
- Advanced TV connections
- Basic TV operation
- Basic Remote Control operation
- Remote Control Button Descriptions



FEATURES

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

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

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

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

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

Auto Programming scans (when activated) for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

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

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

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

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

Dynamic Contrast helps to sharpen the picture quality by improving the contrast between the darkest and brightest parts of the picture.

Eye Fidelity (also know as Digital Options) give a choice of two different scanning technics – Progressive Scan or Interlaced. Progressive Scan doubles the number of visible lines per field by displaying all picture frame lines at once, eliminating any picture flicker. The Interlaced mode provides a double vertical display scan, which reduces annoying motion sweeps. The Interlaced mode will also smooth out the jagged lines sometimes seen on the edges of curved or angled surfaces.

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

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

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

Standard Broadcast (VHF/UHF) or Cable TV (CATV) channel capability allows for viewing by antenna or cable.

Stereo capability, including a built-in audio amplifier and twin-speaker system, allows for the reception of TV programs broadcast in stereo sound.

Surf Button allows you to easily switch among only the channels that are of interest to you (the ones that you have programmed into the TV's Surf control through the onscreen menu).

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

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.

END-OF-LIFE DISPOSAL

Your new television and its packing 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.

Your product also uses batteries that should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

When you replace your existing equipment, please find out about the local regulations regarding disposal of your old television, batteries, and packing materials.

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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How to Use the Language Control

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

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

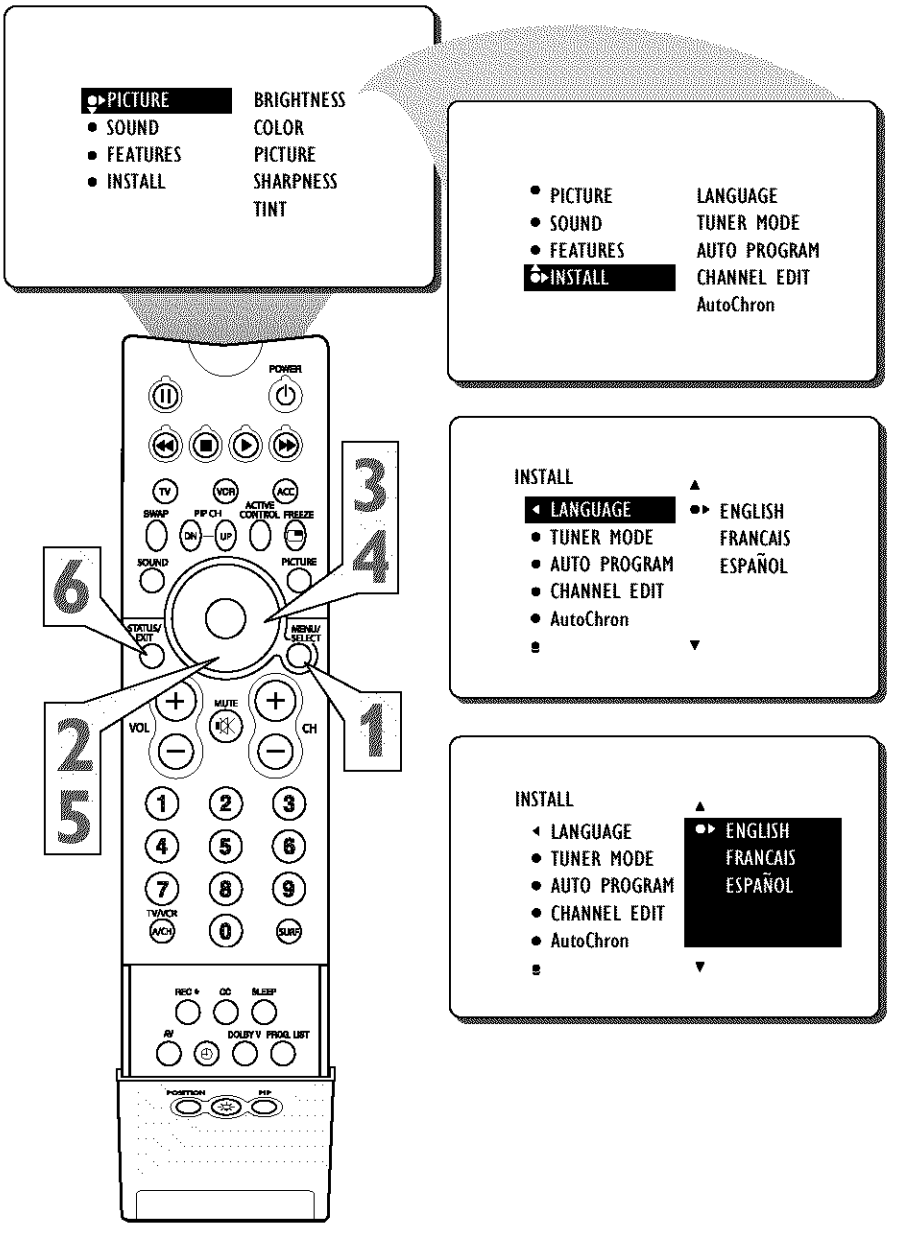
2. **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.

3. **Press the CURSOR RIGHT button** to shift the menu to the left and highlight LANGUAGE.

4. **Press the CURSOR RIGHT button** to highlight the LANGUAGE control options.

5. **Press the CURSOR UP or CURSOR DOWN button** to select ENGLISH, ESPANOL (Spanish), or FRANCAIS (French).

6. **Press the STATUS/EXIT button** to clear the menu from the screen.



Helpful Hint

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

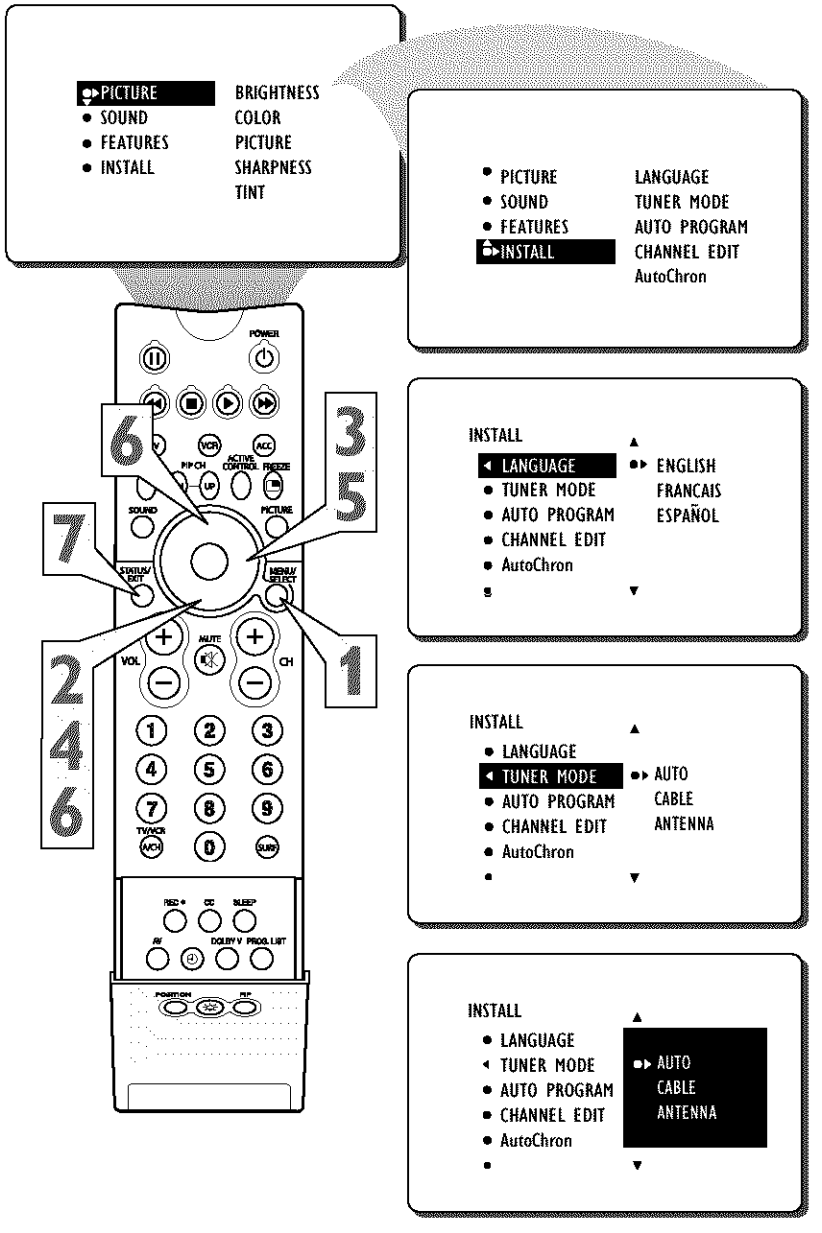
How to Use the Tuner Mode Control

The TUNER MODE feature allows you to change the TV's signal input to CABLE, ANTENNA, or AUTO mode. It's important for the TV to know if you want to receive channels from a cable TV signal or a normal antenna signal.

***NOTE:** The AUTO mode setting helps the TV determine the type of signal or channels being received when AUTO PROGRAM is activated.*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left.
4. **Press the CURSOR DOWN button** once to highlight TUNER.
5. **Press the CURSOR RIGHT button** to highlight the tuner options.
6. With the TUNER MODE control set to AUTO, Auto Program (see below) will detect whether or not cable input is present.

   If, however, you want to set the TUNER MODE to CABLE or ANTENNA, **press the CURSOR UP or CURSOR DOWN button** until either CABLE or ANTENNA is highlighted.
7. **Press the STATUS/EXIT button** to clear the menu from the screen.



Helpful Hint

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

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

How to Automatically Program Channels

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

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

2 **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.

3 **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.

4 **Press the CURSOR DOWN button** repeatedly until the AUTO PROGRAM control is highlighted.

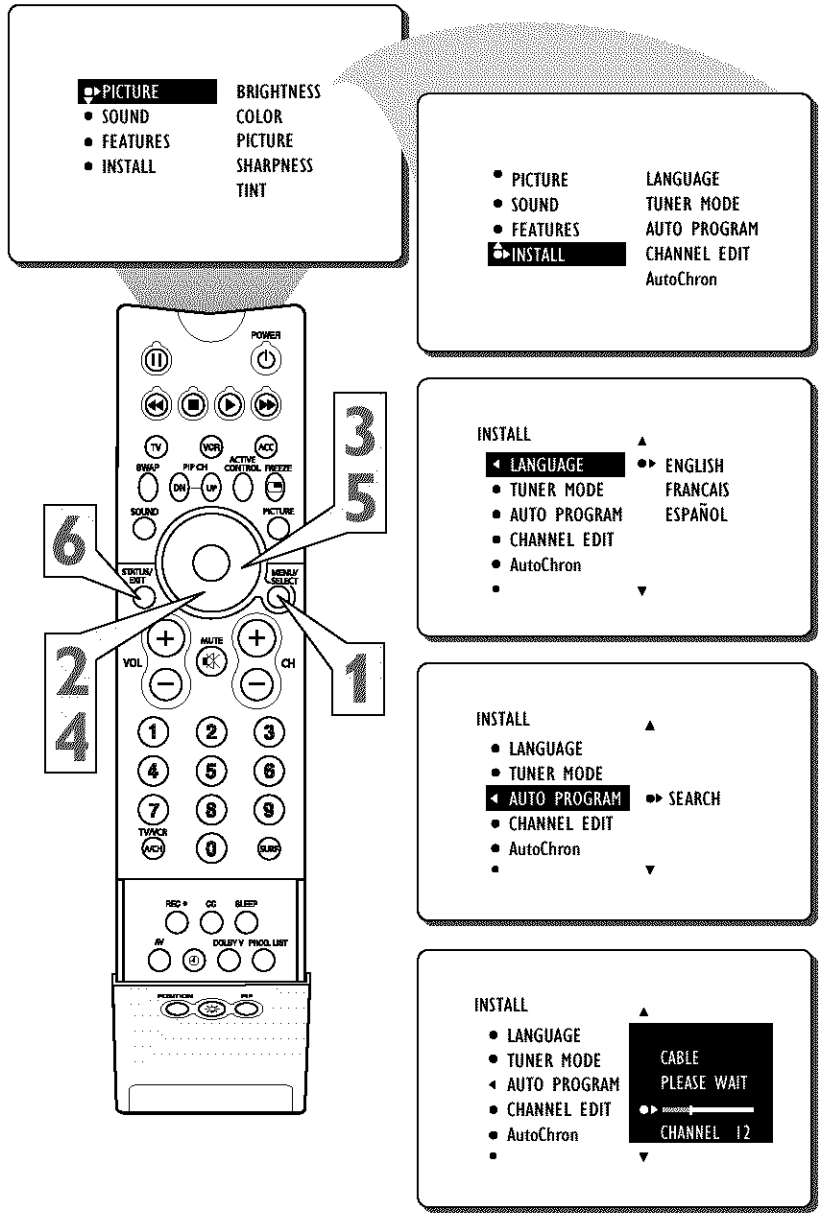
5 **Press the CURSOR RIGHT button** to start the Auto Program scanning of channels.

6 **Press the STATUS/EXIT button** to clear the menu from the screen.

Helpful Hint

After you've run Auto Program, check out the results. Press the CHANNEL (+) or (–) button and see which channels you can select.

Remember, an antenna or cable TV signal must first be connected to your TV (see instructions for making connections on page 1 of this guide).



How to Add or Delete Channels

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

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

2. **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.

3. **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.

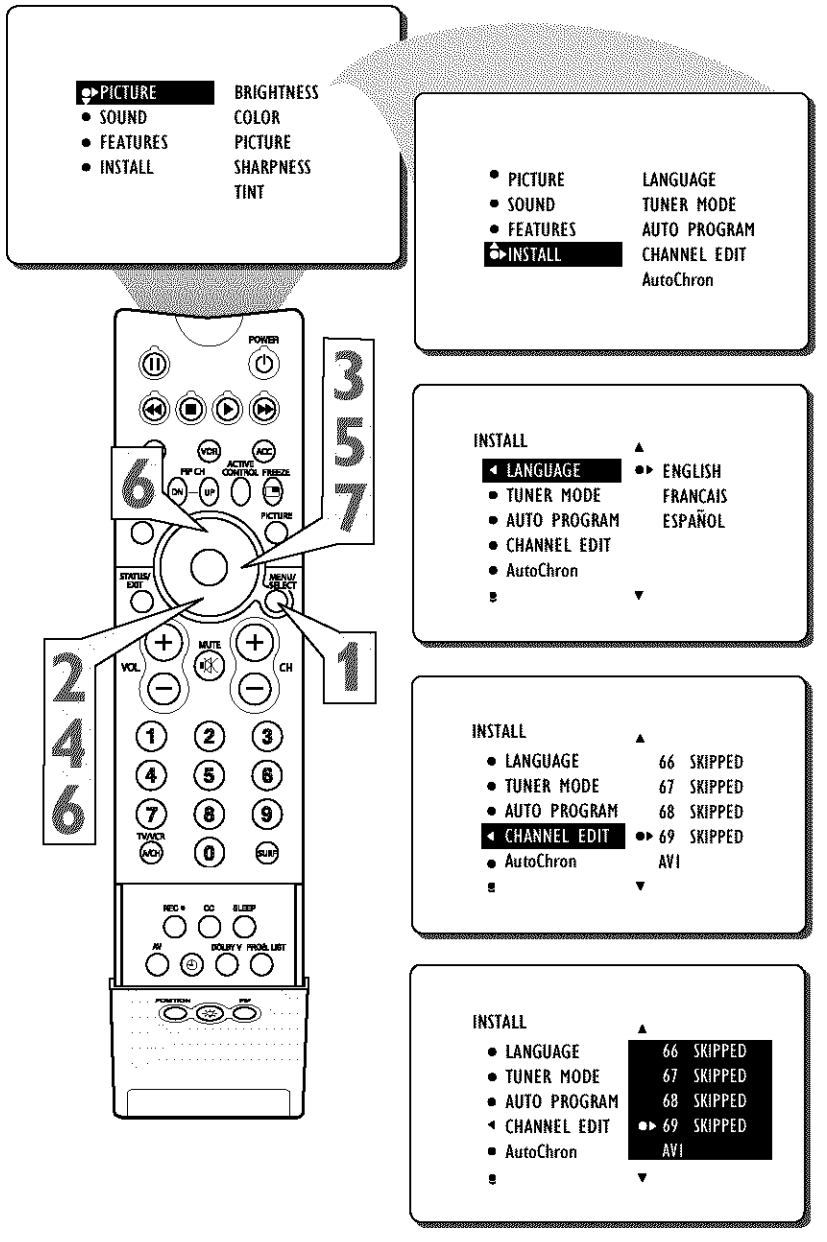
4. **Press the CURSOR DOWN button** repeatedly until the CHANNEL EDIT control is highlighted.

5. **Press the CURSOR RIGHT button** to access the CHANNEL EDIT menu.

6. **Press the CURSOR UP or CURSOR DOWN button** to scroll through the list of available channels. Or press the number buttons on your remote control to select a specific channel (for example, press *0* and then *2* to select channel 2).

7. With the channel you want to edit selected, **press the CURSOR RIGHT button** to mark the channel as SKIPPED. The channel you've marked SKIPPED will not appear when you are changing from channel to channel while watching TV.

NOTE: When you want to add a channel that has been marked SKIPPED, **press the CURSOR UP or CURSOR DOWN button** to highlight the channel; then **press the CURSOR RIGHT button** to remove the word SKIPPED.



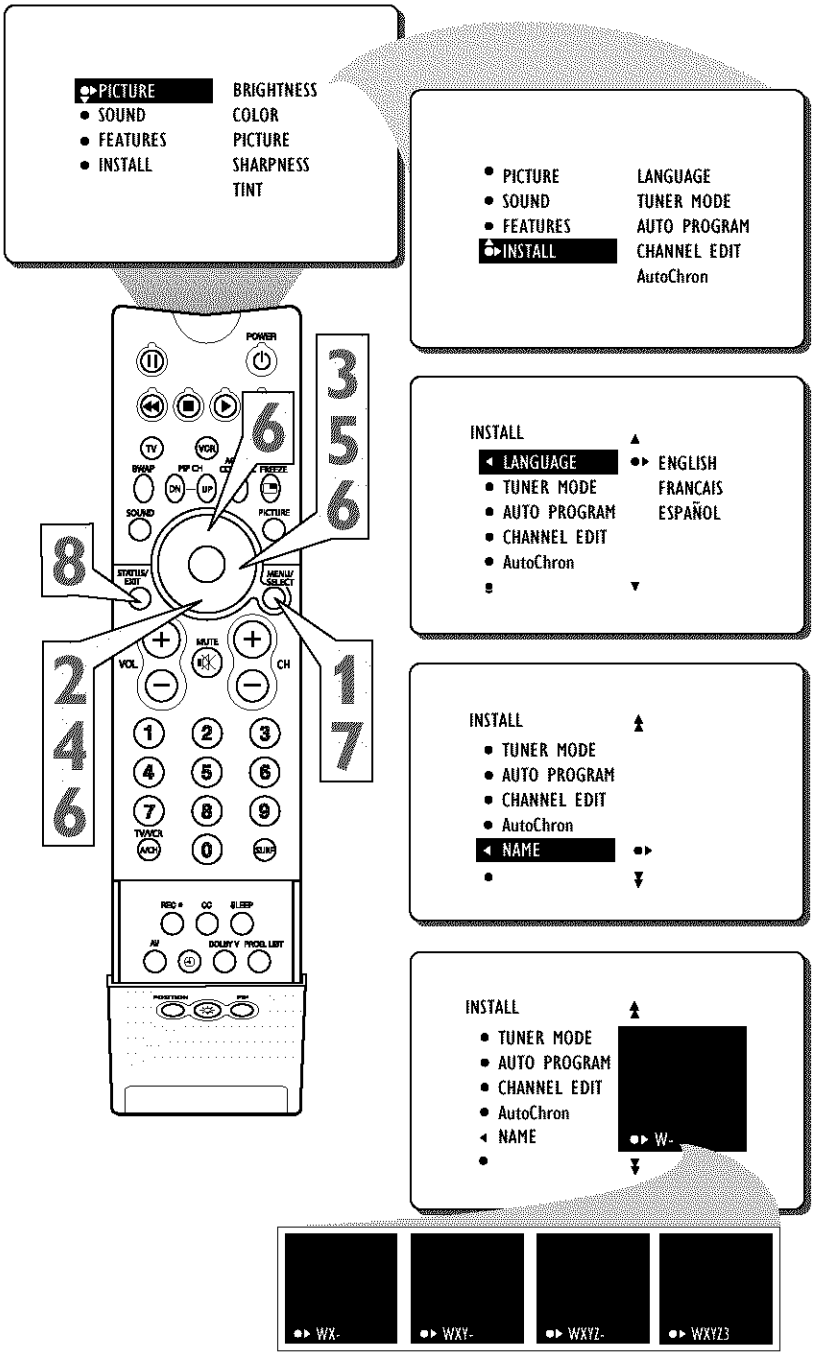
Helpful Hint

The channels available for you to edit are the ones that the AUTO PROGRAM feature found through a search of your TV antenna or cable TV signals. Channels not found during the search are marked SKIPPED.

How to Automatically Program Channels

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

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until INSTALL in highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.
4. **Press the CURSOR DOWN button** repeatedly until the NAME control is highlighted.
5. **Press the CURSOR RIGHT button** to highlight the NAME options area.
6. **Press the CURSOR RIGHT button again**; then **press the CURSOR UP or CURSOR DOWN button** to scroll through a list of options for the first character (A through Z, 0 through 9). **Press the CURSOR RIGHT button** and repeat for the second, third, fourth, and fifth characters.
7. After you have selected a name for the channel, **press the MENU button** to save the name in the TV's memory.
8. **Press the STATUS/EXIT button** to clear the menu from the screen.



Helpful Hint

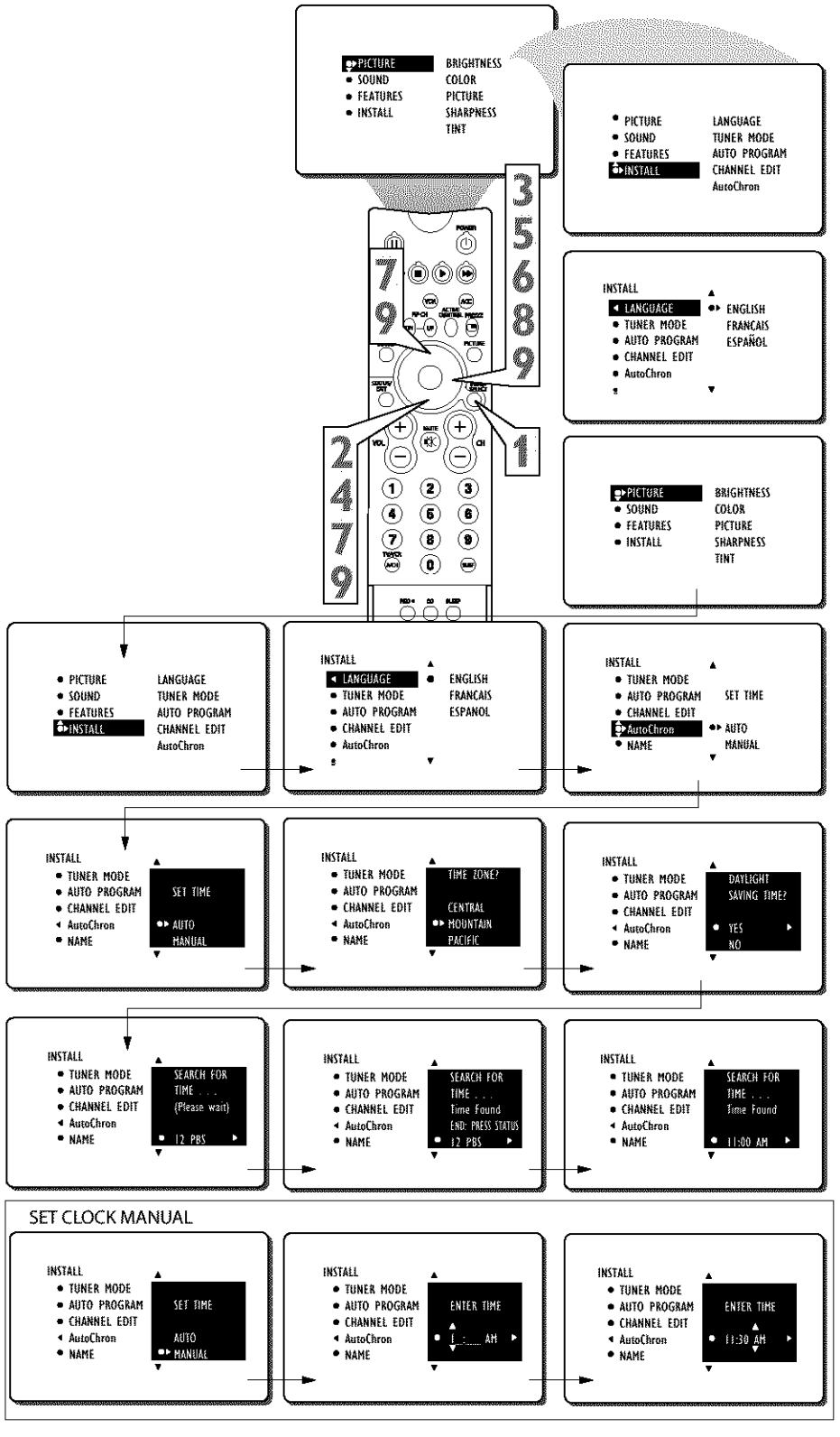
The five characters that the channel NAME feature allows you to input can be letters, a dash character, or the numbers 0 through 9.

How to Set the Clock with AutoChron™

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

1. **Press the MENU button** on the remote to show the onscreen menu.
2. **Press the CURSOR DOWN button** repeatedly until INSTALL is highlighted.
3. **Press the CURSOR RIGHT button** to shift the menu to the left. LANGUAGE will be highlighted.
4. **Press the CURSOR DOWN button** until the AutoChron control is highlighted.
5. **Press the CURSOR RIGHT button** to start the AutoChron™ feature. Then just follow the onscreen instructions to set the clock.
6. **Press the CURSOR RIGHT button** to select AUTO. Within a few seconds, a menu for choosing your time zone will appear.
7. **Press the CURSOR UP or CURSOR DOWN button** to highlight your correct time zone.
8. **With your correct time zone highlighted, press the CURSOR RIGHT button.** Within a few seconds, you will be given the option to choose whether you want to select Daylight Savings Time.
9. **Press the CURSOR UP or CURSOR DOWN button** to navigate through the YES and NO selection list; then **with the item you want to select highlighted, press the CURSOR RIGHT button.** Follow the onscreen instructions (shown below) to set the AutoChron™ time either automatically or manually.

Note: When turned ON, the AutoChron™ feature can affect the start up of your television. When the power button is press and the AutoChron™ feature is set to the AUTO position, the TV will scan the channels for a PBS channel to set the clock automatically. It may take SEVERAL seconds before the TV powers itself ON.



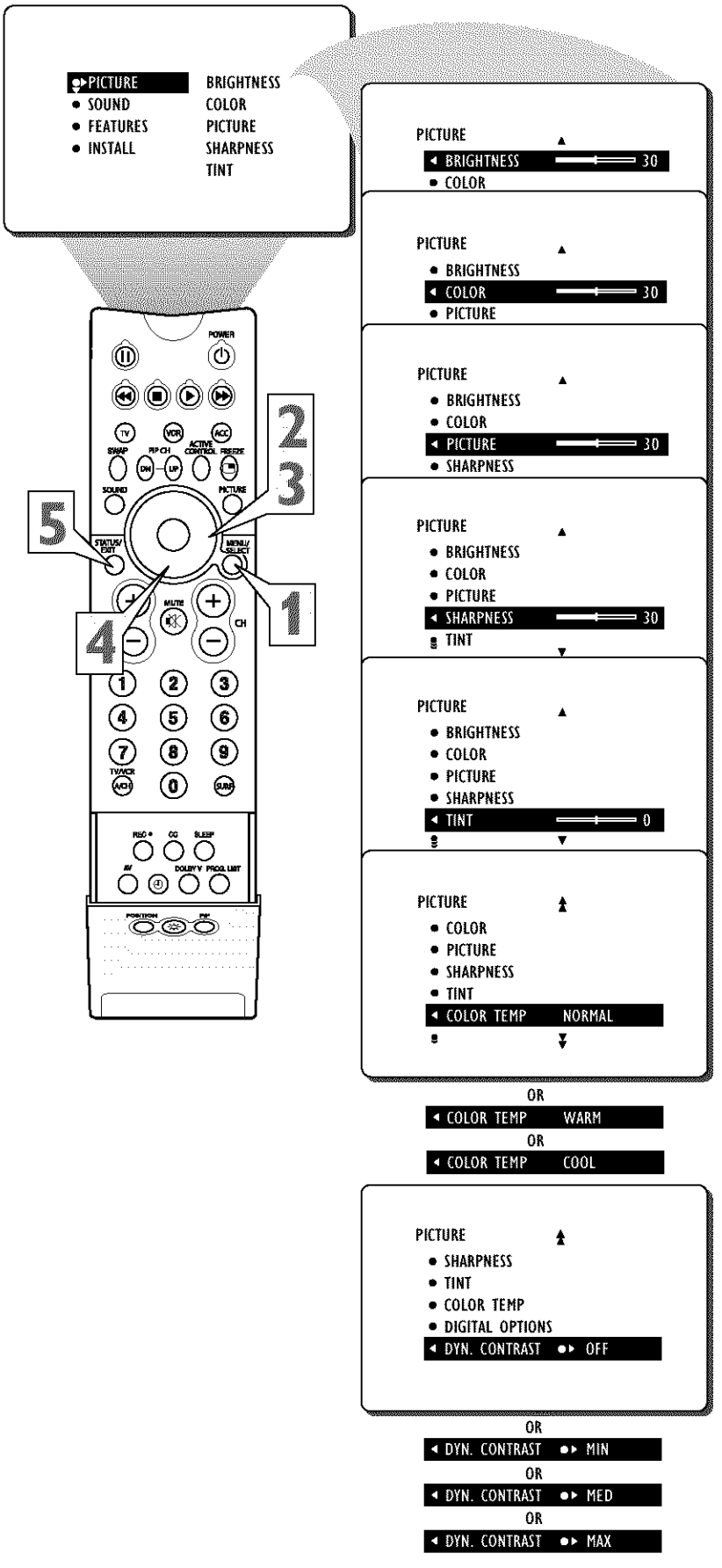
ADJUSTING THE PICTURE CONTROLS

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

1. **Press the MENU button** on the remote control to show the onscreen menu. PICTURE will be highlighted.
2. **Press the CURSOR RIGHT button** and the menu will shift to the left. BRIGHTNESS will be highlighted and an adjustment bar will be shown to the right.
3. **Use the CURSOR LEFT or CURSOR RIGHT button** to adjust the BRIGHTNESS level of the picture.
4. After adjusting the BRIGHTNESS control, **press the CURSOR DOWN button** to select another picture adjustment: COLOR, PICTURE, SHARPNESS, TINT, COLOR TEMP, DIGITAL OPTIONS, or DYN(amic) CONTRAST. **Press the CURSOR LEFT or CURSOR RIGHT button** to adjust the selected control.

NOTE: The menu will show only five items at a time, so you will need to continue scrolling with the CURSOR DOWN button to adjust the COLOR TEMP, DIGITAL OPTIONS, or DYN(amic) CONTRAST.

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



HELPFUL HINT

NOTE: The SHARPNESS and TINT Controls will not be available when tuned to the AV4 Inputs (AV4 Channel) and CVI Inputs (CVI Channel).

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.
- **COOL** – makes whites, bluish.
- **WARM** – makes whites, reddish.

DIGITAL OPTIONS – Progress Scan or Interlaced 1050i Mode

- **PROGRESSIVE SCAN** – doubles the number of picture lines, eliminating line flicker and providing a jitter-free picture.
- **INTERLACED 1050i** – 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.

DYNAMIC CONTRAST – sharpen the picture quality by making dark portions of the picture darker and light portions of the picture more noticeable. Choose MINIMUM, MEDIUM, or MAXIMUM.

ADJUSTING THE TREBLE, BASS, AND BALANCE CONTROLS

Besides the normal volume level control, your TV also has individual sound-adjustment controls. The TREBLE (high frequency), BASS (low frequency), and Speaker BALANCE may all be used to adjust the sound playback of TV programs.

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

2. **Press the CURSOR DOWN button** once to highlight SOUND.

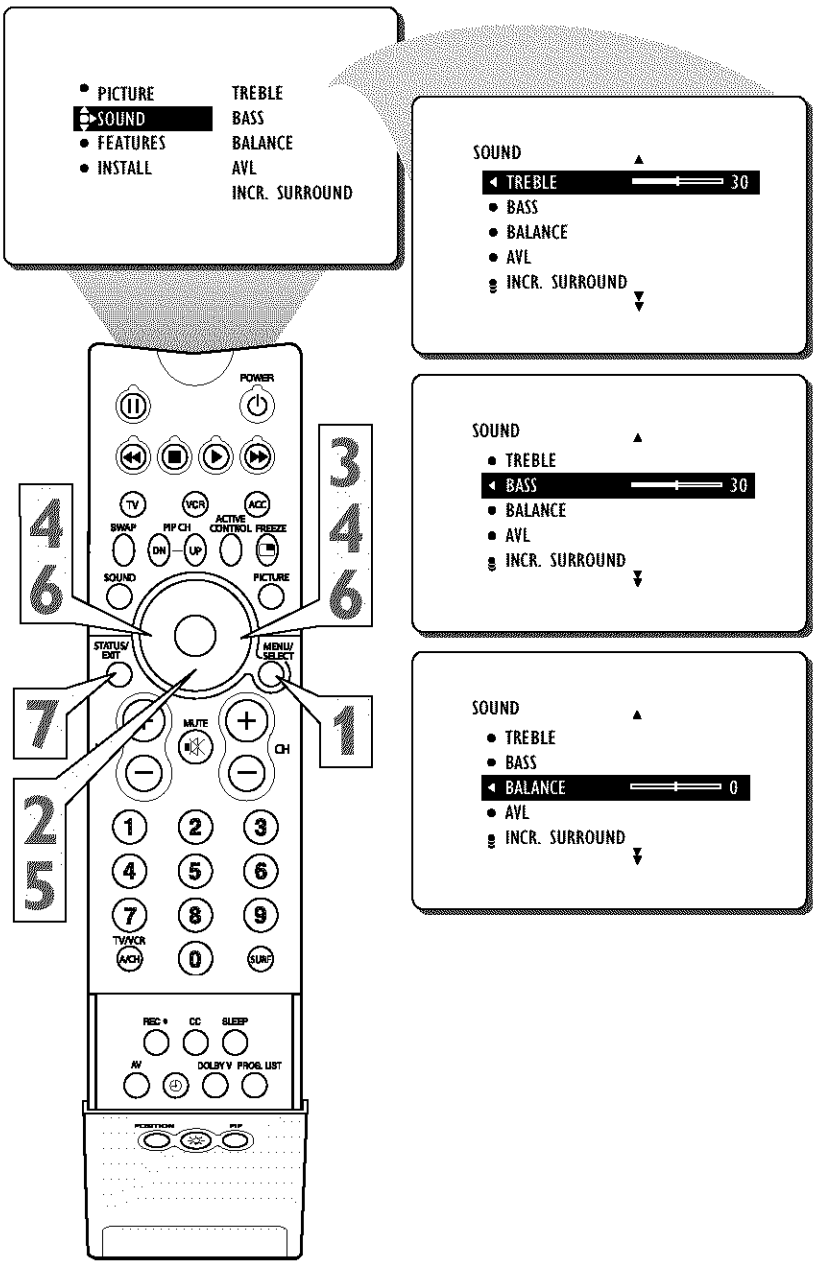
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.

4. **Use the CURSOR RIGHT or CURSOR LEFT button** to adjust the TREBLE (high frequency) level of the television's sound.

5. After adjusting the TREBLE control, **press the CURSOR DOWN button** to select another sound adjustment: BASS or BALANCE.

6. **Press the CURSOR RIGHT or CURSOR LEFT button** to adjust the selected control.

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



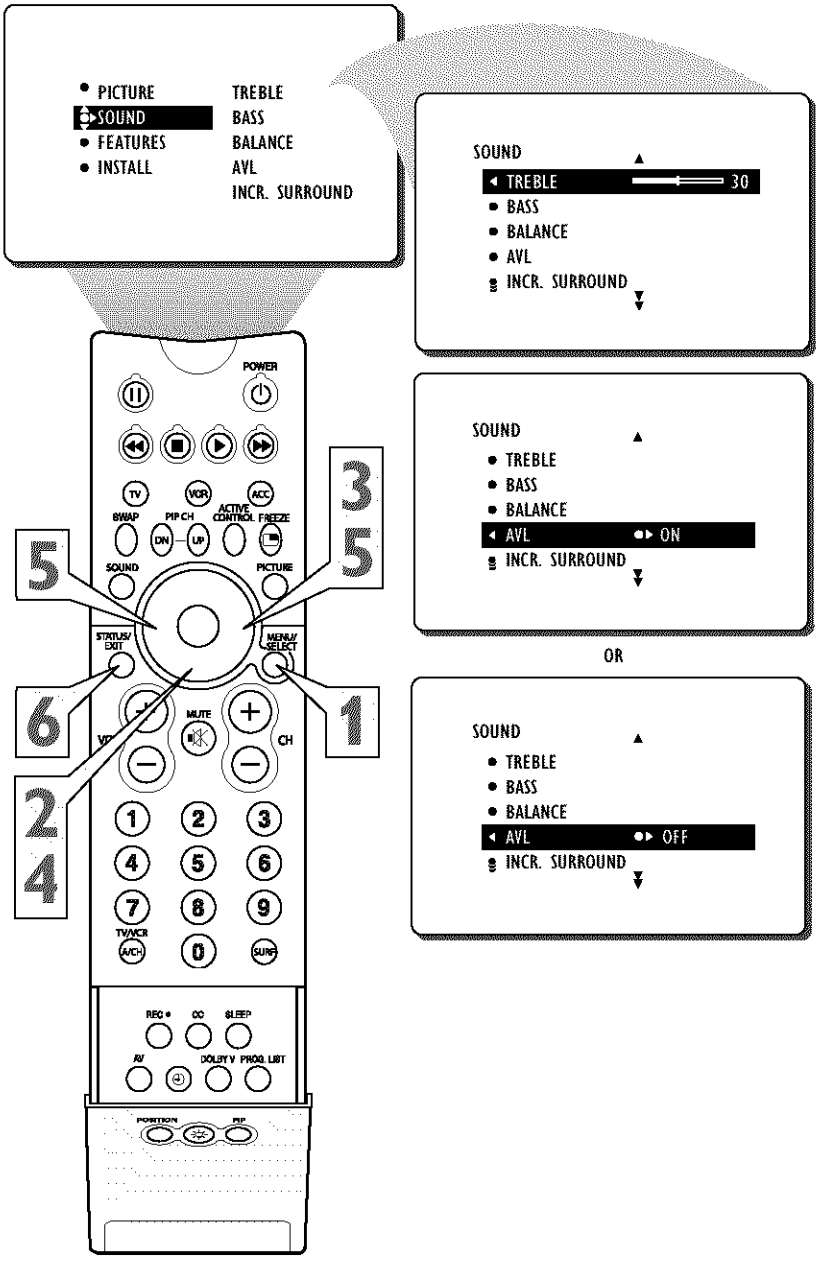
HELPFUL HINT

Remember, when the bar scale is centered, speaker BALANCE is centered between the TV's left and right side speakers.

How to Use the AVL Control

In most cases, the volume levels coming from broadcast programming or commercials are never the same. With the AVL (Audio Volume Leveler) control turned ON, you can have the TV level out sound that is being heard. This makes for a more consistent sound by reducing the peaks and valleys that occur during program changes or commercial breaks. To turn the AVL ON, follow these steps.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN button** repeatedly until AVL is highlighted.
5. **Press the CURSOR RIGHT or CURSOR LEFT button** to toggle AVL ON or OFF.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.



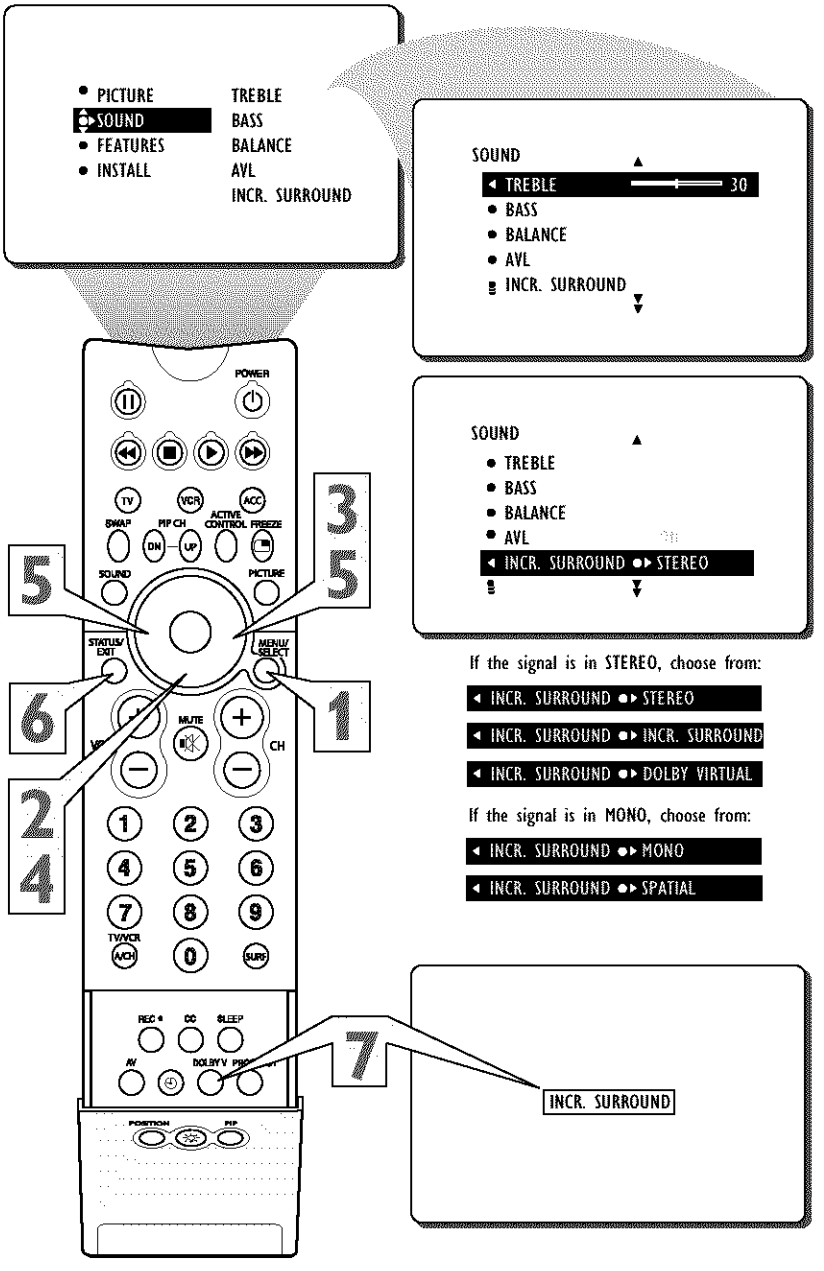
How to Use the Incredible Surround Control

The Incredible Surround feature adds greater depth and dimension to both monaural (MONO) and stereo TV sound. With the control set to INCR. SURROUND (Incredible Surround), the TV's speakers can add even wider sound separation to normal broadcasts.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN button** repeatedly until INCR. SURROUND is highlighted. (Incredible Surround)
5. **Press the CURSOR RIGHT or CURSOR LEFT button** to toggle the INCR. SURROUND control settings.

   If signal is Stereo: Select STEREO, INCR. SURROUND, or DOLBY* VIRTUAL.

   If signal is MONO: Select MONO, or SPATIAL.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.
7. You can also change the INCR. SURROUND onscreen menu control settings by **pressing the DOLBY V button** on the remote control.



Helpful Hint

SPATIAL – widens the sound, simulating a broader, fuller sound.

INCR. SURROUND – widens the sound, simulating a broader, fuller sound.

DOLBY* VIRTUAL (with Virtual Dolby Surround signals) simulates the surround-sound experience from two speakers using Dolby Pro Logic* providing the listener with the sensation of being surrounded by additional speakers.

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

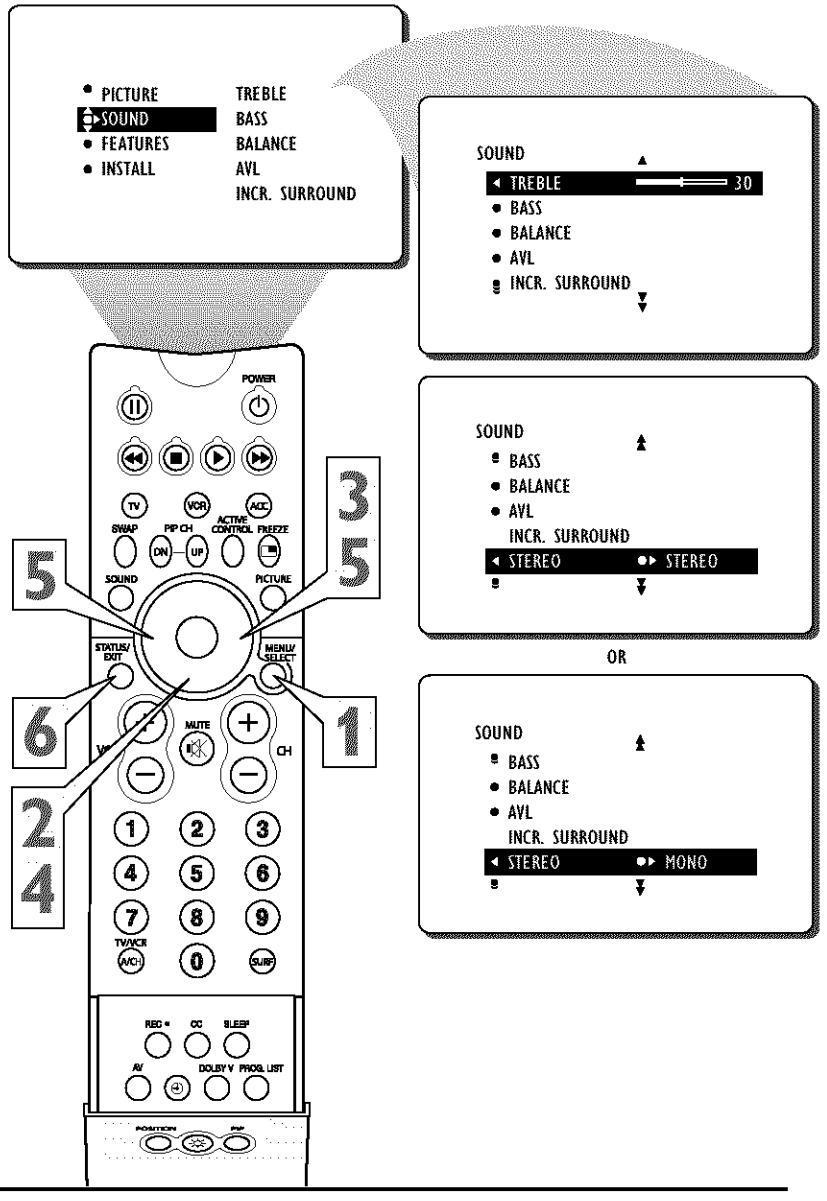
How to Set the Stereo Control

You can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN button** repeatedly until STEREO is highlighted.
5. **Press the CURSOR RIGHT or CURSOR LEFT button** to select STEREO or MONO.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

Helpful Hint

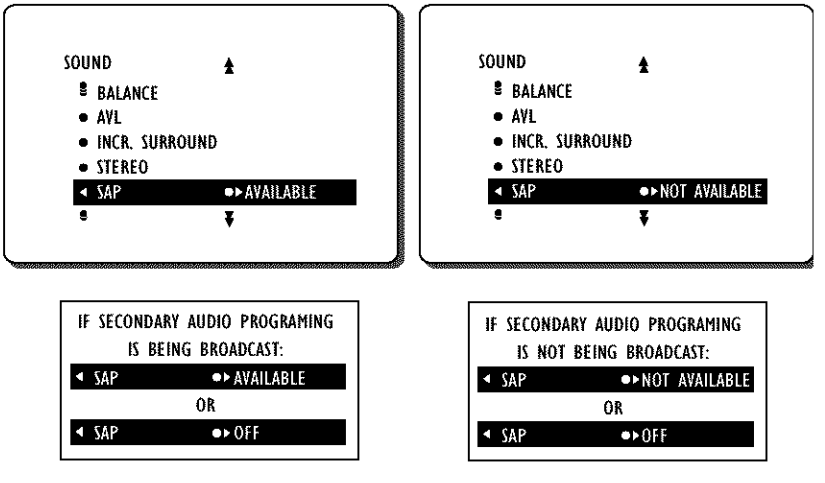
Remember, if stereo is not present on a selected show and the TV is placed in the STEREO mode, the sound coming from the set will remain monaural.



SAP-Secondary Audio Program

An SAP 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.

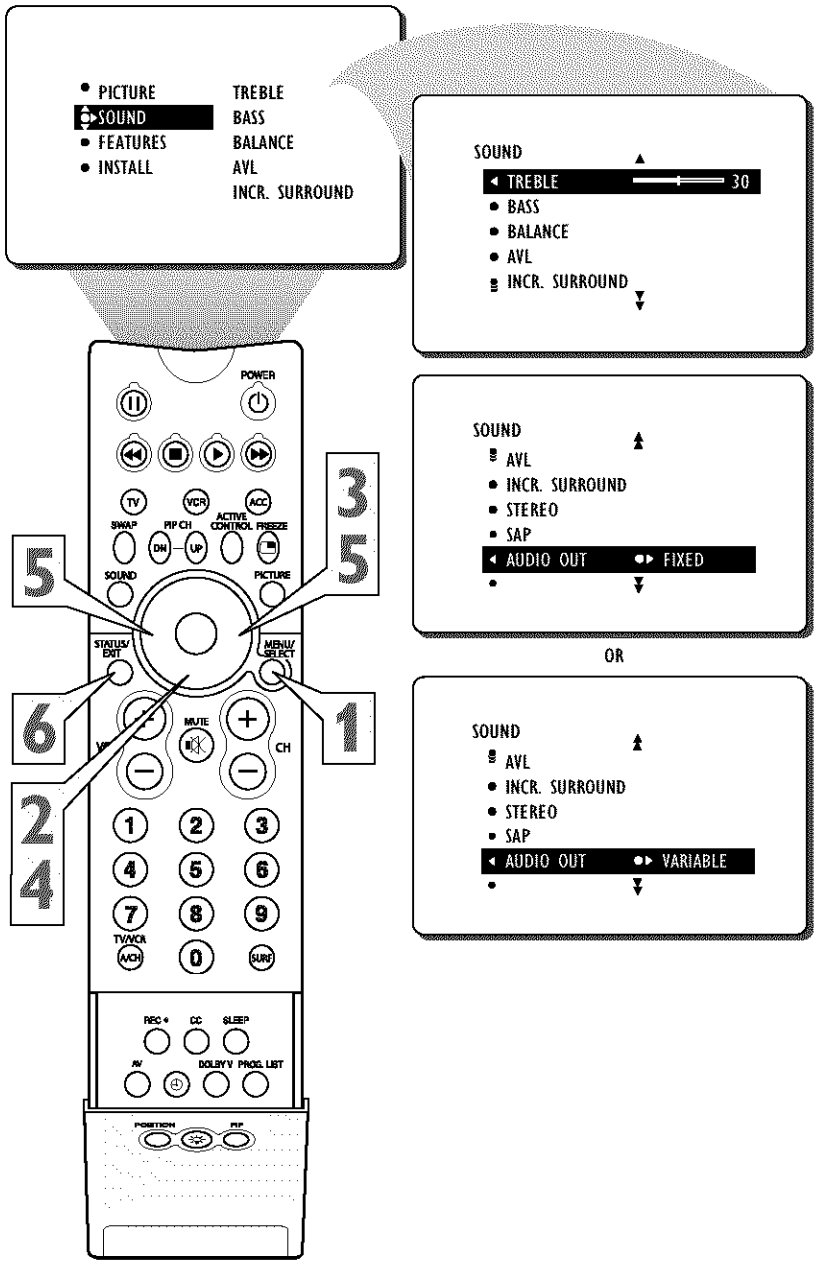
If an SAP signal is not present with a selected program, the SAP option cannot be selected. Also, if SAP is selected on a channel (with SAP) and you select another channel, when you return to the original channel, SAP will be OFF. You will have to reselect the SAP feature.



How to Use the Audio Out Control

If you have connected the TV's AUDIO OUTPUT jacks to the AUDIO INPUT jacks on a stereo receiver (see page 12 for connection instructions), set AUDIO OUT to either VARIABLE or FIXED to determine whether you adjust the volume at the stereo or at the TV. If you select VARIABLE, change the volume at the TV using the TV's remote control. If you select FIXED, adjust the volume at the stereo using the stereo's controls. To select FIXED or VARIABLE, follow these steps.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN button** repeatedly until AUDIO OUT is highlighted.
5. **Press the CURSOR RIGHT or CURSOR LEFT button** to select FIXED or VARIABLE.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.



Helpful Hint

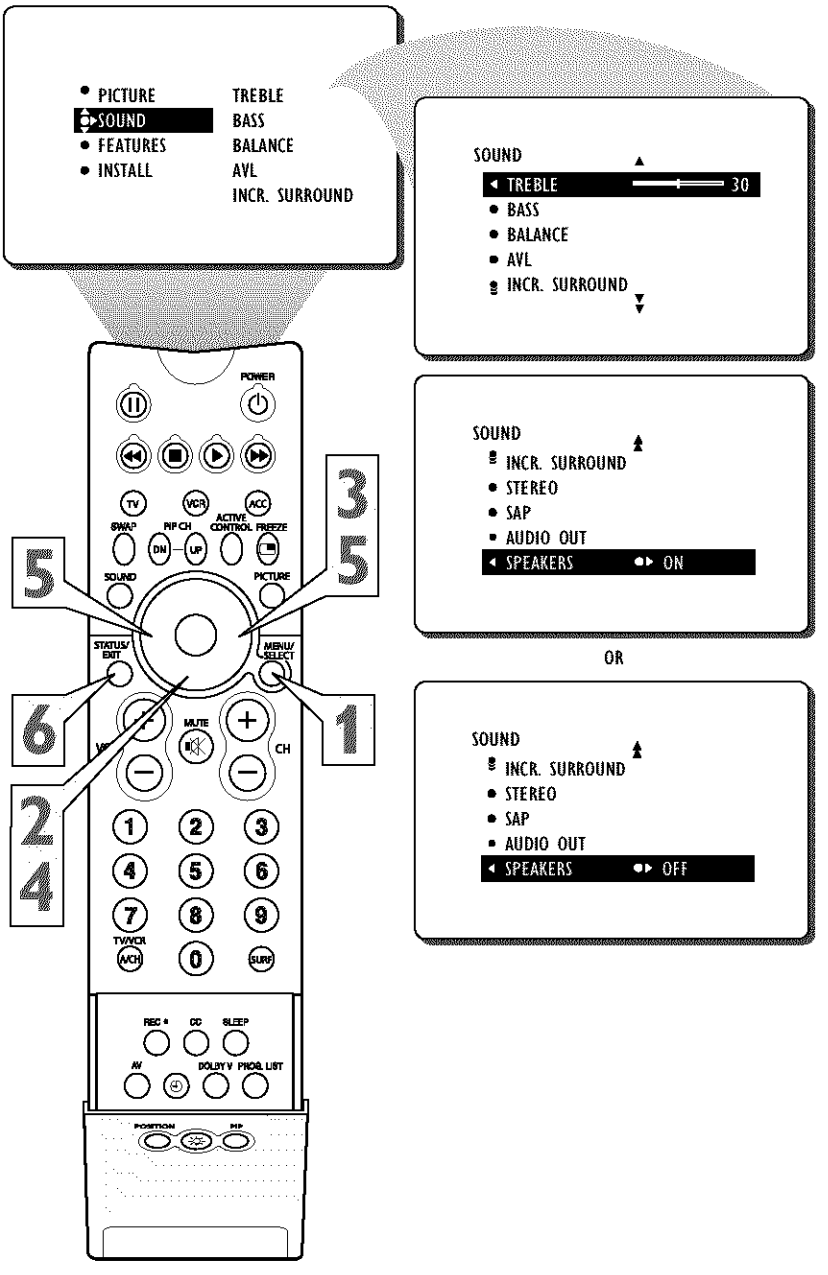
FIXED – If FIXED is selected, the sound coming from the TV and being heard through an external audio system is not adjustable with the television's volume controls. The volume would have to be adjusted at the audio system.

VARIABLE – If VARIABLE is selected, the sound coming from the TV and being heard through an external audio system can be adjusted at the TV using the Volume + or – buttons on the television or remote control.

Remember, the connection instructions for an external audio system is located on page 13.

How to Turn the TV Speakers On or Off

Using the TV's Audio (Monitor) Output jacks and TV Speaker ON/OFF control an external audio system can be used to hear the sound coming from the TV. The Speaker Control will allow you to turn the television's speakers off so the TV sound would only be heard through the audio system. Please refer to page 13 for the proper connections needed to hookup an external audio system.



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

2 **Press the CURSOR DOWN button** once to highlight SOUND.

3 **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.

4 **Press the CURSOR DOWN button** repeatedly until SPEAKERS is highlighted.

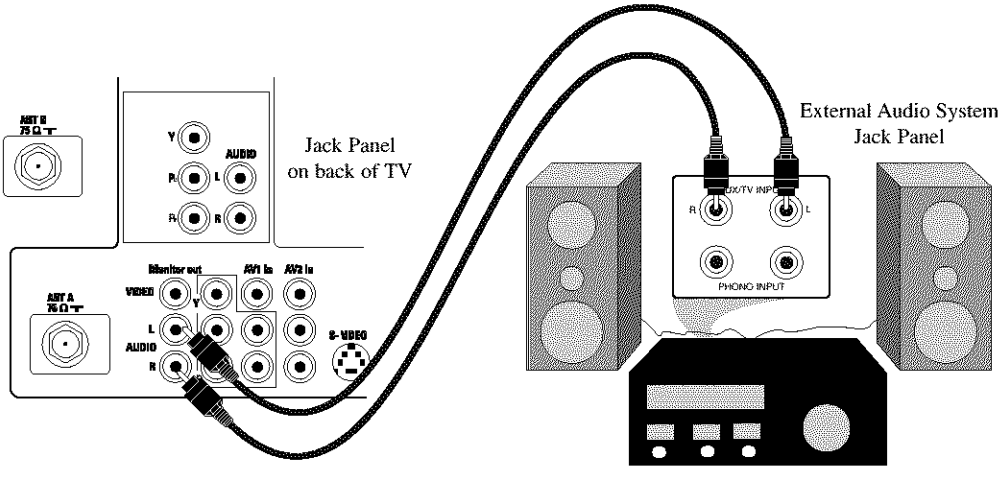
5 **Press the CURSOR RIGHT or CURSOR LEFT button** to turn the television's speakers ON or OFF.

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

Helpful Hint

Be sure to first connect an external audio system to the television's Monitor Output (audio) jacks.

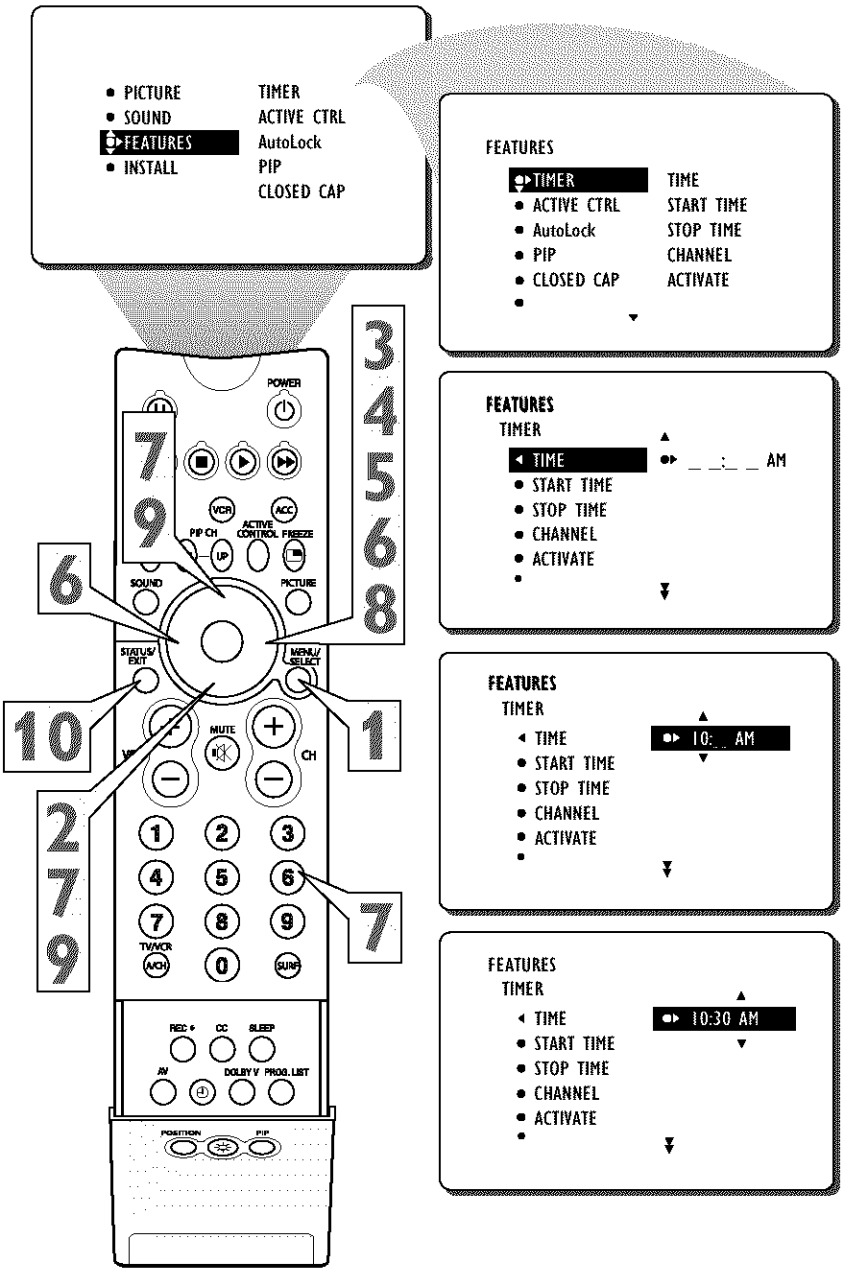
If the SPEAKERS Control is turned OFF and no external audio system is connected, there will be no sound heard at the TV.



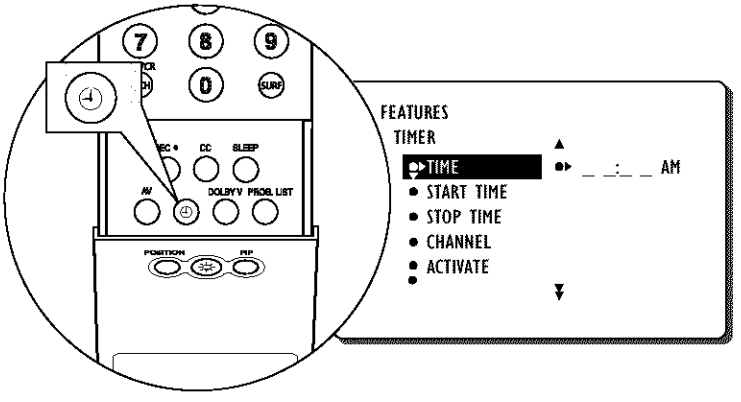
SETTING THE TV CLOCK USING THE TIMER CONTROL

Your television comes with an on-screen clock. During normal operation, the clock appears on the screen when the STATUS/EXIT button is pressed or if the TIMER DISPLAY control is turned ON.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left and highlight the TIME control.
5. **Press the CURSOR RIGHT button** again to highlight the time indicator area.
6. **Press the CURSOR LEFT or CURSOR RIGHT button** to select the position or digit you wish to enter.
7. **Press the CURSOR UP or CURSOR DOWN button** to select the digits for the time. **Or press the NUMBERED buttons** to enter the correct time.
8. **Press the CURSOR RIGHT button** to move to the AM or PM position.
9. **Press the CURSOR UP or DOWN button** to set AM or PM.
10. **Press the STATUS/EXIT button** to remove the menu from the screen.



NOTE: The **TIMER Controls** can also be accessed by **pressing the CLOCK button on the remote control**. See lower diagram on this page.



HELPFUL HINT

Remember, be sure to press *0* first and then the hour number for single-digit entries.

The TV's clock settings may be lost when the TV is unplugged (or when AC power to the set is interrupted).

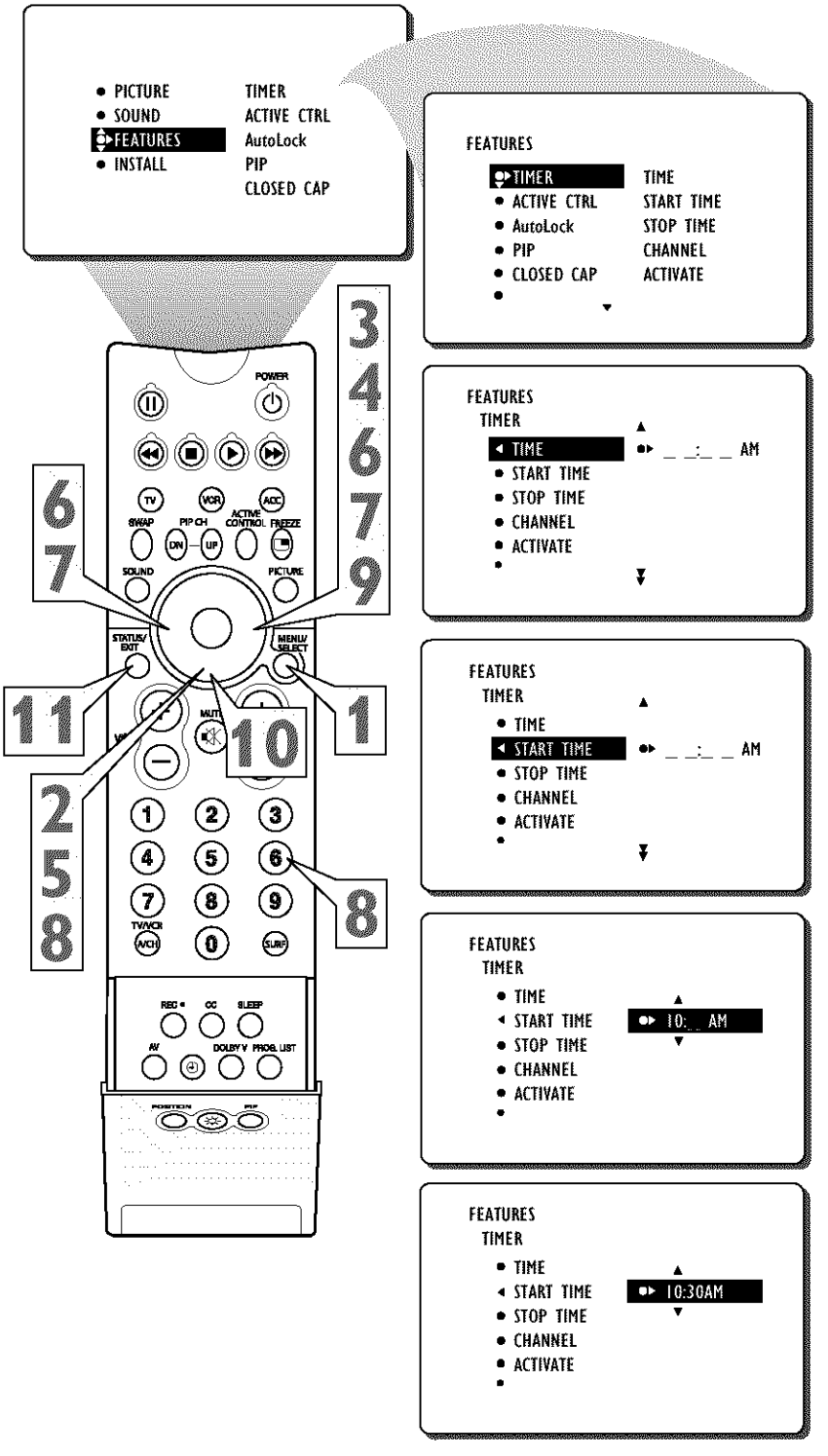
Setting the TV to Turn Itself On Using the Start Time Control

Just as you would an alarm clock, you can set the TV to turn itself ON once or at the same time every day. Follow these steps to set the Start Time.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the START TIME control.
6. **Press the CURSOR RIGHT button** again to highlight the time indicator area.
7. **Press the CURSOR RIGHT or CURSOR LEFT button** to move among the positions where the time is input.
8. **Press the CURSOR UP or CURSOR DOWN button** to select the digits for the time. **Or press the NUMBERED buttons** to enter the time you want the television to turn itself on.
9. **Press the CURSOR RIGHT button** to move to the AM or PM position.
10. **Press the CURSOR UP or DOWN button** to set AM or PM.

NOTE: The **ACTIVATE Control** (page 23) must be set to ONCE or DAILY for the START TIME Control to take effect.

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



Helpful Hint

Remember, be sure to press *0* first and then the hour number for single-digit entries.

The ACTIVATE Control must be set to ONCE or DAILY for the television to shut itself off at the specified time. See page 23 for more details about the ACTIVATE Control.

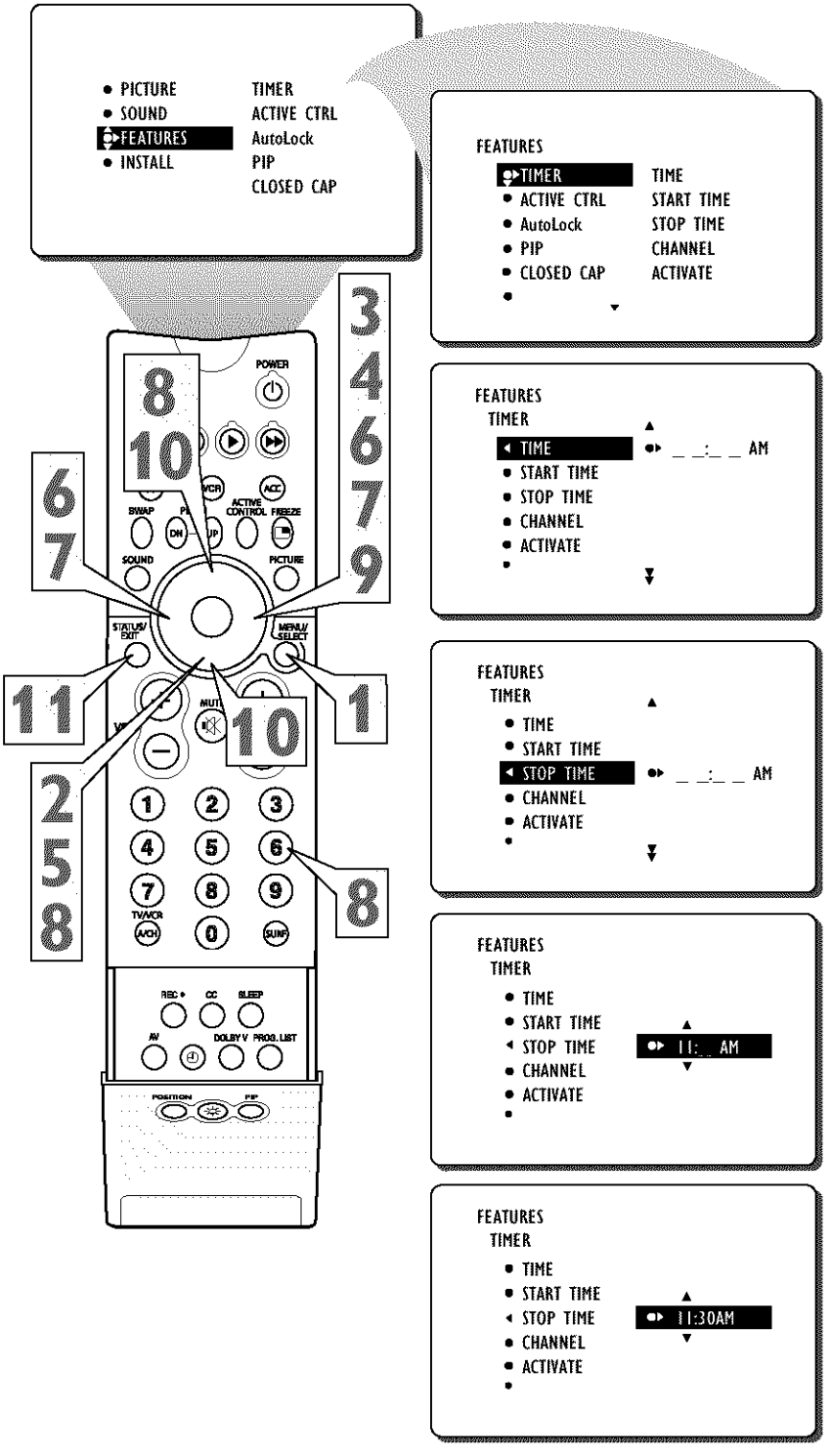
SETTING THE TV TO TURN ITSELF OFF USING THE STOP TIME CONTROL

The following steps will guide you in setting the TV to turn itself OFF at a specific time.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the STOP TIME control.
6. **Press the CURSOR RIGHT button** again to highlight the time indicator area.
7. **Press the CURSOR RIGHT or CURSOR LEFT button** to move among the positions where the time is input.
8. **Press the CURSOR UP or CURSOR DOWN button** to select the digits for the time. **Or press the NUMBERED buttons** to enter the time you want the television to turn itself off.
9. **Press the CURSOR RIGHT button** to move to the AM or PM position.
10. **Press the CURSOR UP or DOWN button** to set AM or PM.

NOTE: The **ACTIVATE Control** (page 23) must be set to ONCE or DAILY for the STOP TIME Control to take effect.

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



HELPFUL HINT

Remember, be sure to press *0* first and then the hour number for single-digit entries.

The ACTIVATE Control must be set to ONCE or DAILY for the television to shut itself off at the specified time. See page 23 for more details about the ACTIVATE Control.

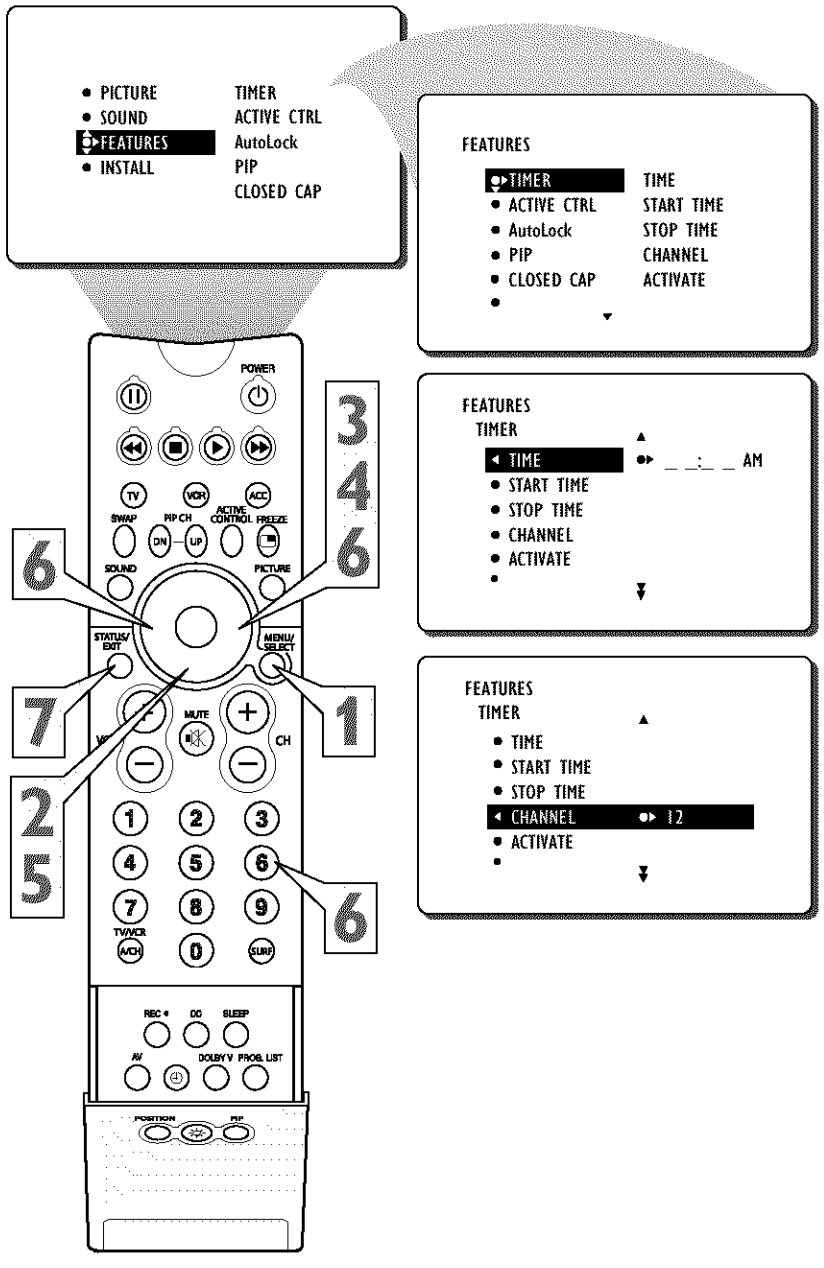
SETTING THE TV TO STARTUP ON A SPECIFIC CHANNEL USING THE CHANNEL CONTROL

You can select a specific channel that the television will tune to when the timer turns the set ON. Follow these steps to select the channel.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the CHANNEL Control.
6. **Press the NUMBERED buttons** to enter the desired start-up channel. **Or, press the CURSOR RIGHT or CURSOR LEFT button** repeatedly to enter the start-up channel you want.

NOTE: The **ACTIVATE Control** (page 23) must be set to ONCE or DAILY for this Channel Control to take effect.

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



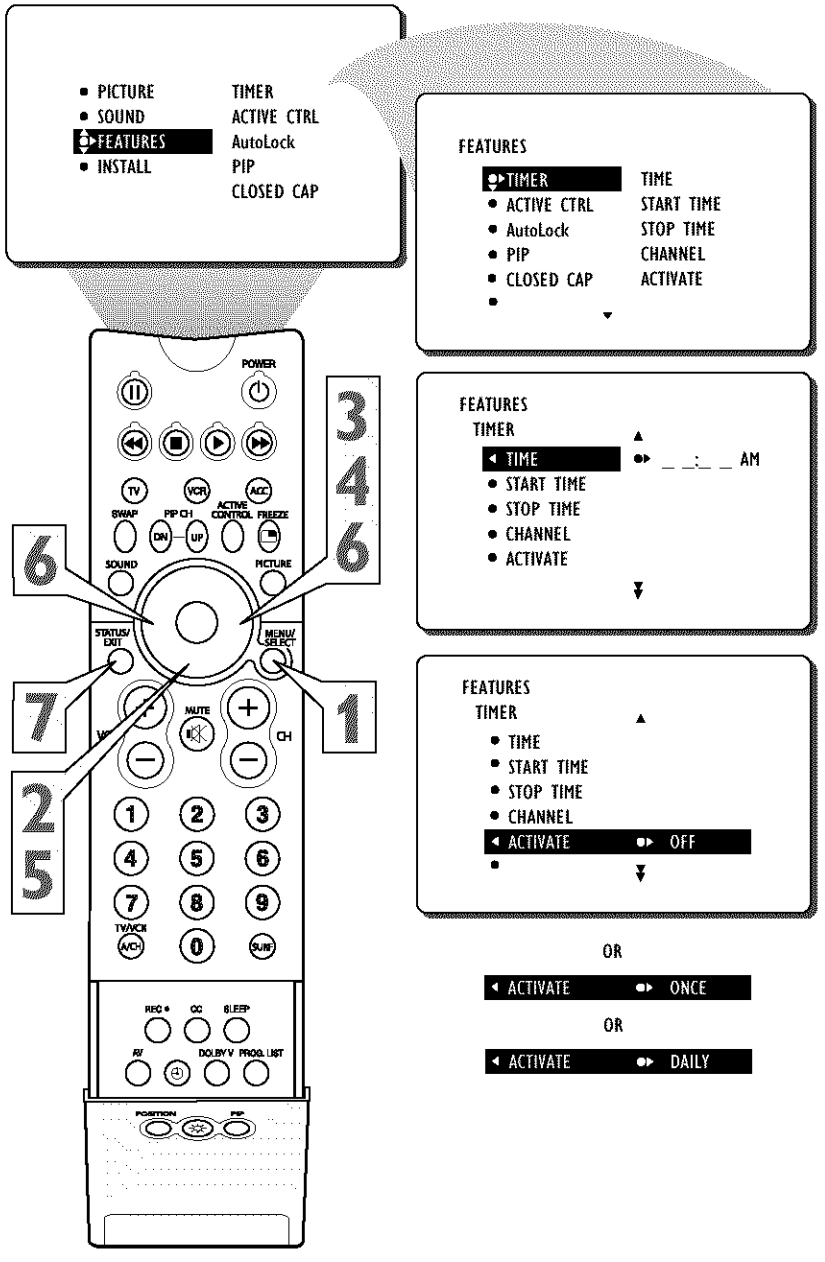
HELPFUL HINT

The ACTIVATE Control must be set to ONCE or DAILY for the television to shut itself off at the specified time. See page 23 for more details about the ACTIVATE Control.

How to Activate the Timer Control Using the Activate Control

After you have set the Time, Start Time, Stop Time, and Start Channel, the timer must be set to come on ONCE or DAILY, or turned OFF through the ACTIVATE Control.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the ACTIVATE Control.
6. **Press the CURSOR RIGHT or CURSOR LEFT button** repeatedly to select ONCE, DAILY or OFF.
7. **Press the STATUS/EXIT button** to remove the menu from the screen.



☑ Check It Out

With the ACTIVATE Control set to ONCE, the START TIME, STOP TIME, and START CHANNEL Controls will only be activated one time.
With the ACTIVATE Control set to DAILY, the START TIME, STOP TIME, and START CHANNEL Controls will be activated every day of the week until it is turned OFF or set to ONCE.

Helpful Hint

Remember, before setting the TIMER controls, the TV's clock must be set to the correct time manually (see page 19) or by using the AutoChron™ feature described on page 11.

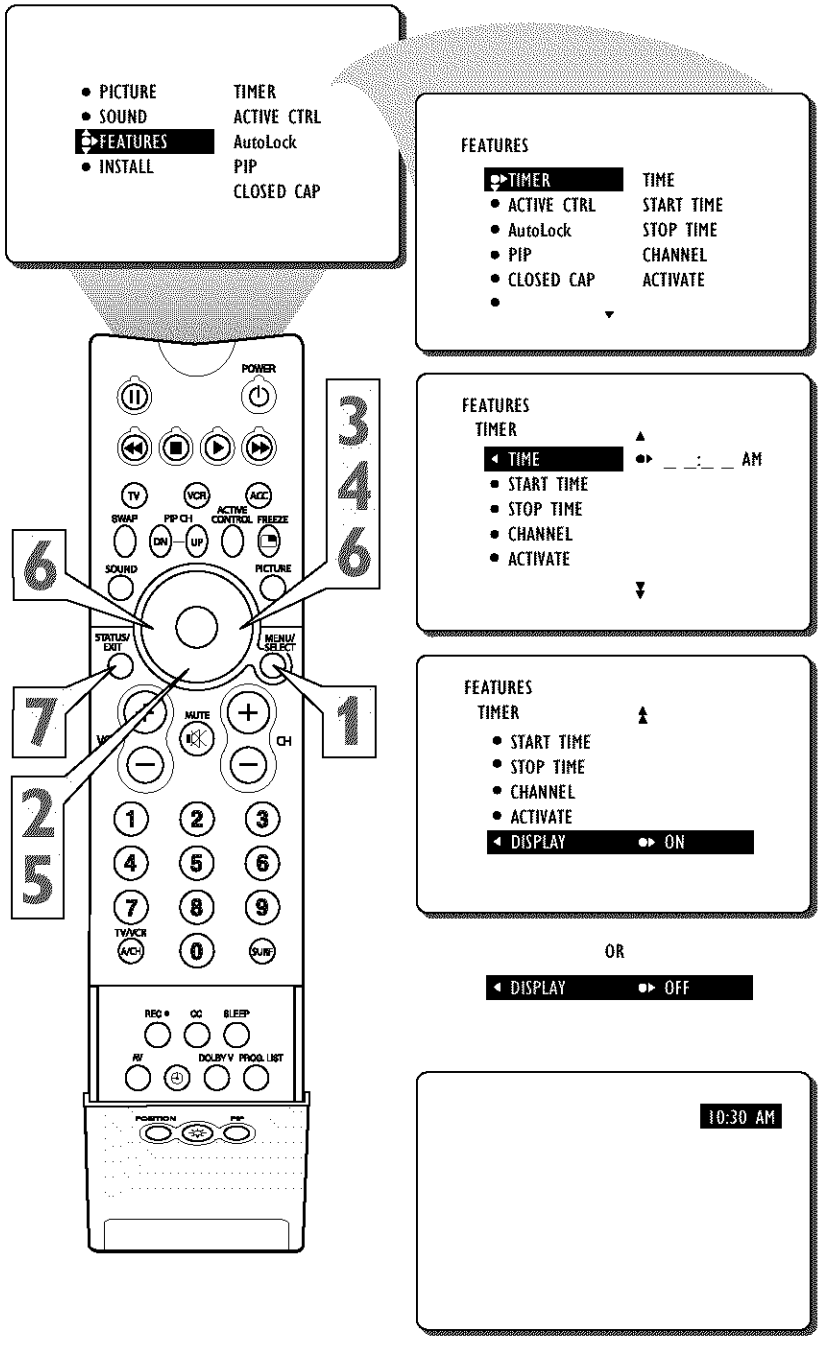
How to View the Time Using the Display Control

After the TV's clock has been set, you can use your TV as a clock. The TIMER DISPLAY control allows you to permanently display the time in the upper right corner of the screen.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left.
5. **Press the CURSOR DOWN button** to highlight the DISPLAY Control.
6. **Press the CURSOR RIGHT or CURSOR LEFT button** repeatedly to select ON or OFF.
7. **Press the STATUS/EXIT button** to remove the menu from the screen.

☑ Check It Out

If the TIME has been set and the DISPLAY Control set to ON, the current time will appear in the upper right corner of the TV screen while the TV is powered on.



How to Use the Active Control

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

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

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

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

2 **Press the CURSOR DOWN button** twice to highlight FEATURES.

3 **Press the CURSOR RIGHT button** and the menu will shift to the left.

4 **Press the CURSOR DOWN button** repeatedly until the ACTIVE CTRL (control) is highlighted.

5 **Press the CURSOR RIGHT or CURSOR LEFT button** repeatedly to toggle the ACTIVE CONTROL ON or OFF.

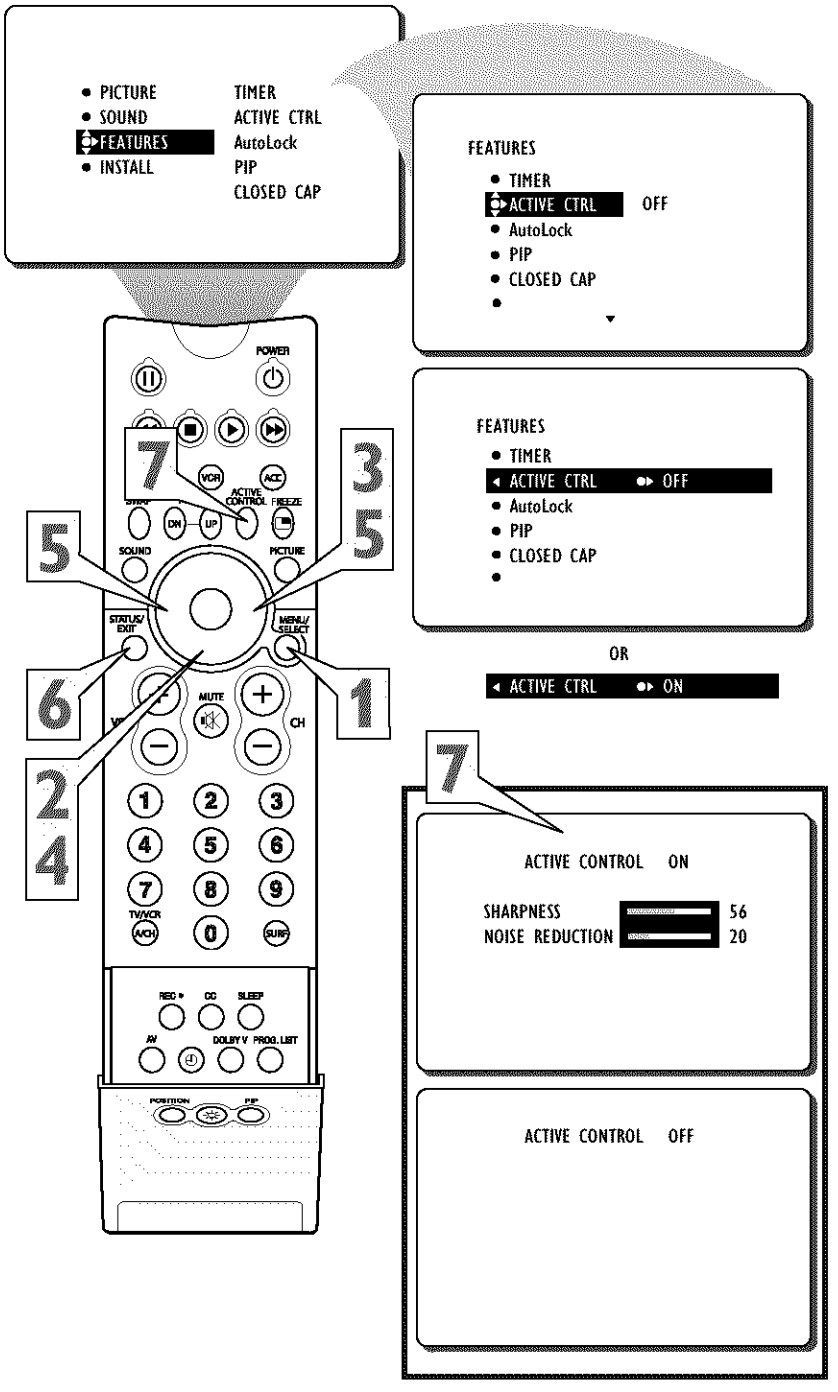
6 **Press the STATUS/EXIT button** to remove the menu from the screen.

---

7 You can also **press the ACTIVE CONTROL button** on the remote control to toggle the ACTIVE CONTROL ON or OFF.

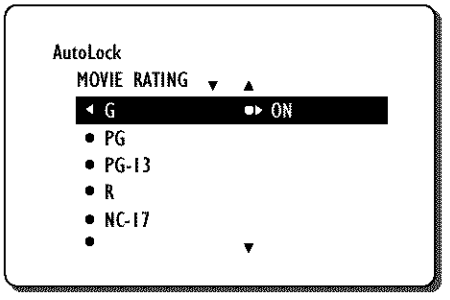
☑ Check It Out

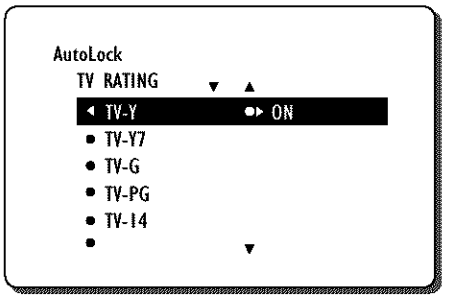
Toggle the ACTIVE CONTROL ON with the remote control and a screen display will appear showing the Active Control in work. You will see the sharpness and noise reduction settings changing to provide the best possible picture quality.



UNDERSTANDING THE AUTOLOCK™ FEATURE

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





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

AutoLock™ offers various Blocking Options from which to choose:

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

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

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

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

MOVIE RATINGS
(MOTION PICTURE ASSOCIATION OF AMERICA)

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

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

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

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

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

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

TV PARENTAL GUIDELINES
(TV BROADCASTERS)

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

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

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

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

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

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

SETTING UP AN AUTOLOCK™ ACCESS CODE

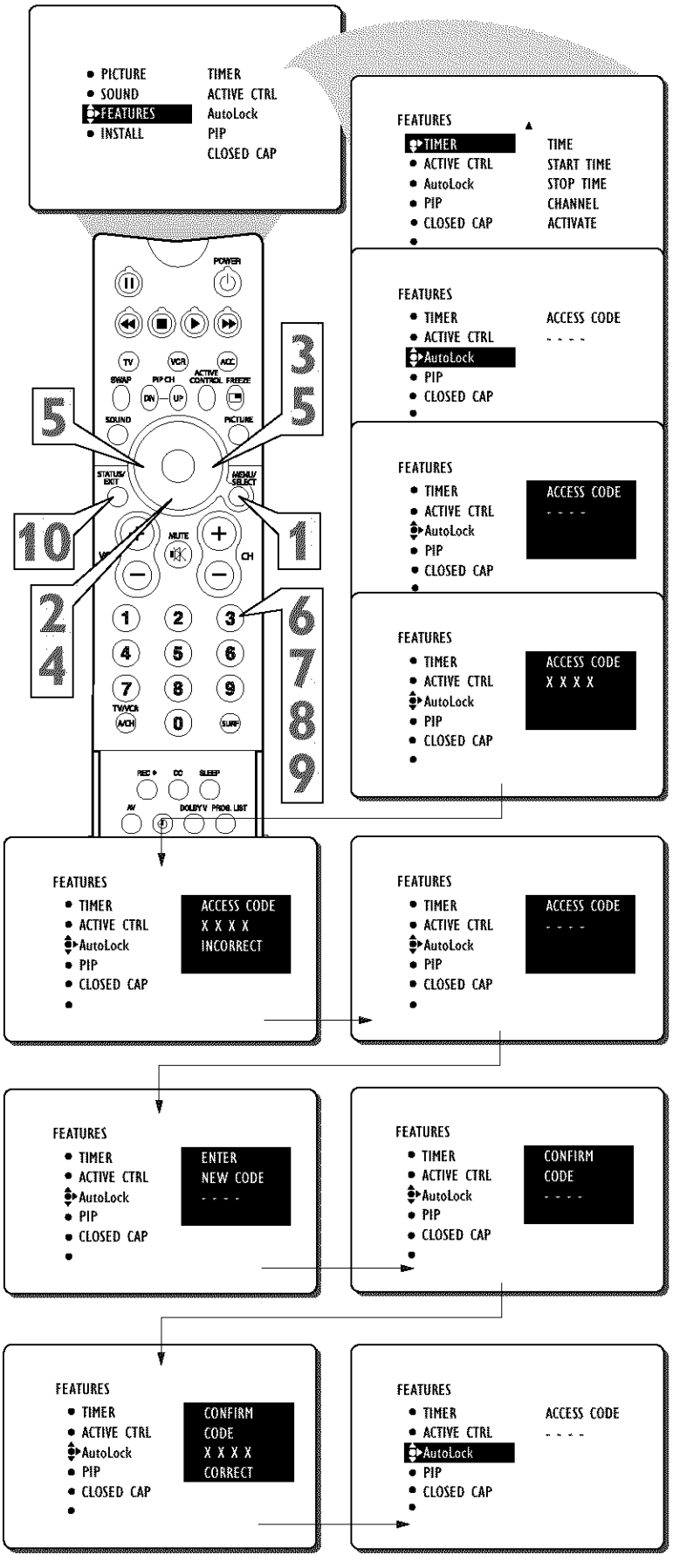
AutoLock™ allows parents to block out or "censor" any channels they think children should not watch. A channel blocked by the AutoLock™ control cannot be viewed until a correct access code is used to unlock the channel for viewing. First, let's set your AutoLock access code.

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

HELPFUL HINT

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

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



How to Block Channel Using AutoLock™

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

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock™ control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR RIGHT button** to highlight the TV's available channels.
8. **Press the CURSOR UP or CURSOR DOWN button** to highlight the channel you want to block. You can also select **ALL** to block all channel at once.
9. **Press the CURSOR RIGHT button** to block the channel. A padlock image appears to the right of the channel number, or to unblock any channels that have already been blocked including the selection **ALL**.

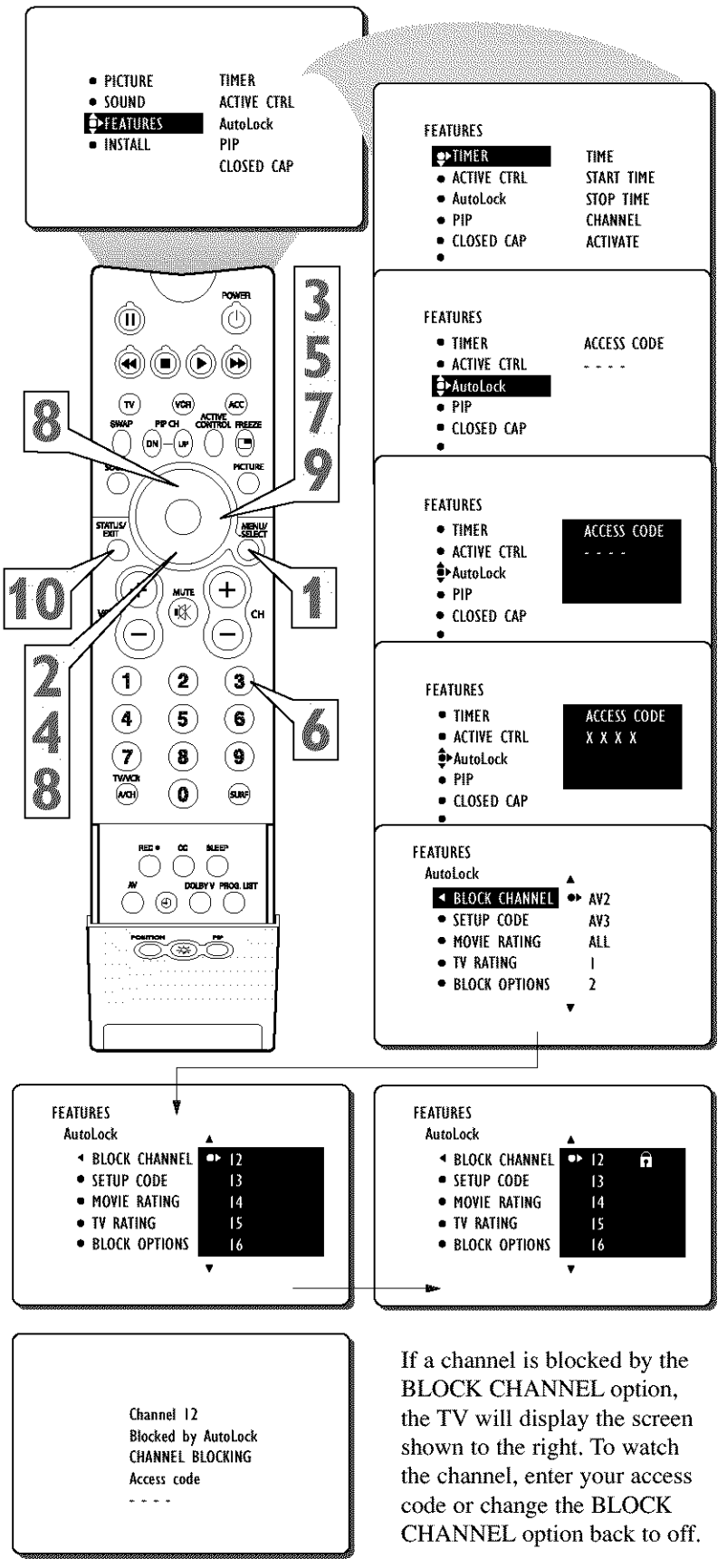
Repeat steps 7 and 8 for any channels you want to block from viewing.

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

Helpful Hint

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

NOTE: You also can block out the use of the A/V external inputs on the rear of the TV. This stops the viewing of VCR, DVD, and other sources that can be shown through the A/V input jacks. Select AV1, CVI, AV2, SIDE (AV3), or AV4; and then select BLOCK.



If a channel is blocked by the BLOCK CHANNEL option, the TV will display the screen shown to the right. To watch the channel, enter your access code or change the BLOCK CHANNEL option back to off.

How to Block Programming Based on Movie Ratings

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

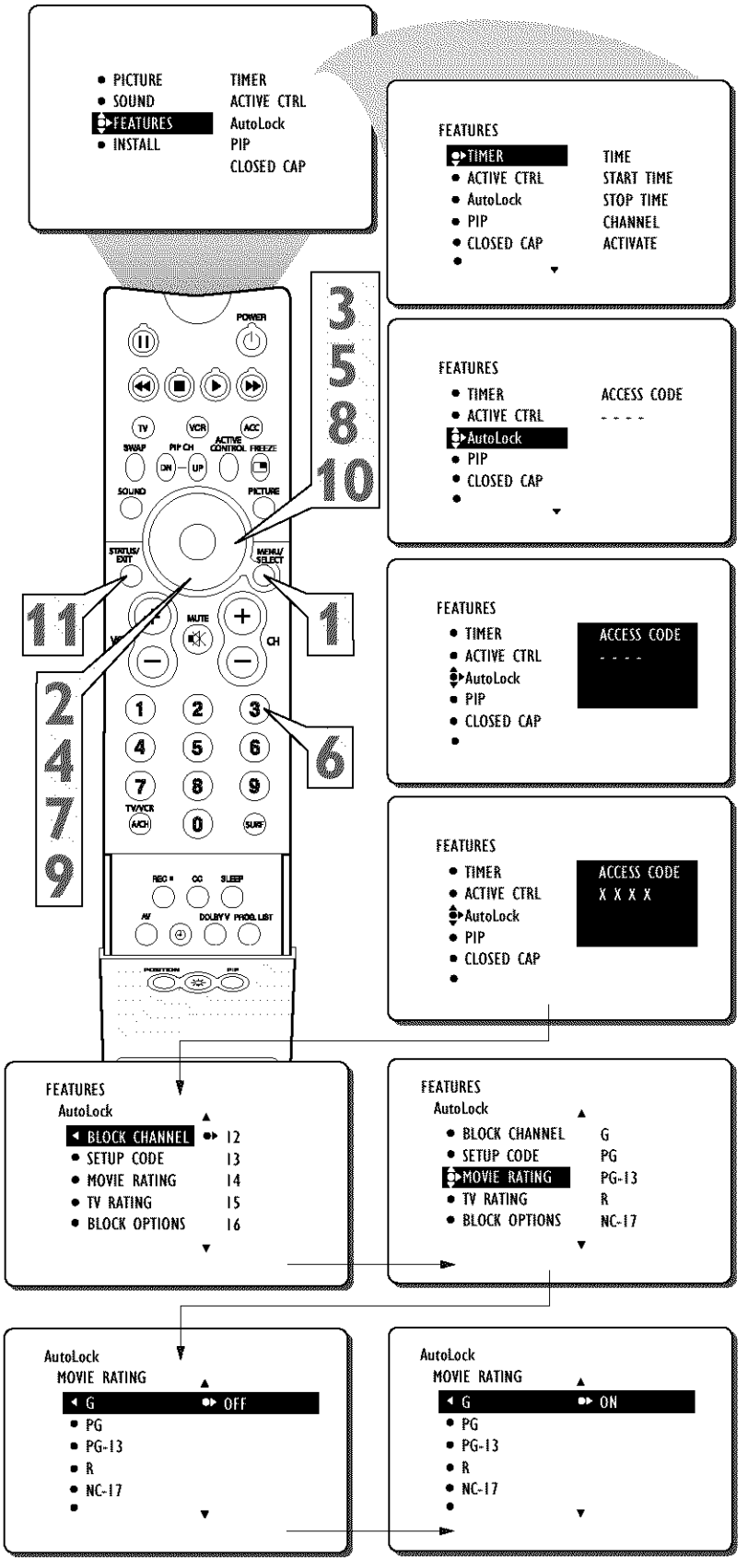
1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock™ control.
5. **Press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

Helpful Hint

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

All Movie Ratings can be turned ON or OFF.

Refer to page 26 for Movie Rating definitions.



How to Block Programming Based on TV Ratings

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

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock™ control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN button** repeatedly until TV RATING is highlighted.
8. **Press the CURSOR RIGHT button** and the menu will shift to highlight the TV RATING options.
9. **Press the CURSOR UP or DOWN button** to select a rating.
10. **Press the CURSOR RIGHT or LEFT button** to turn the block on the rating ON or OFF.

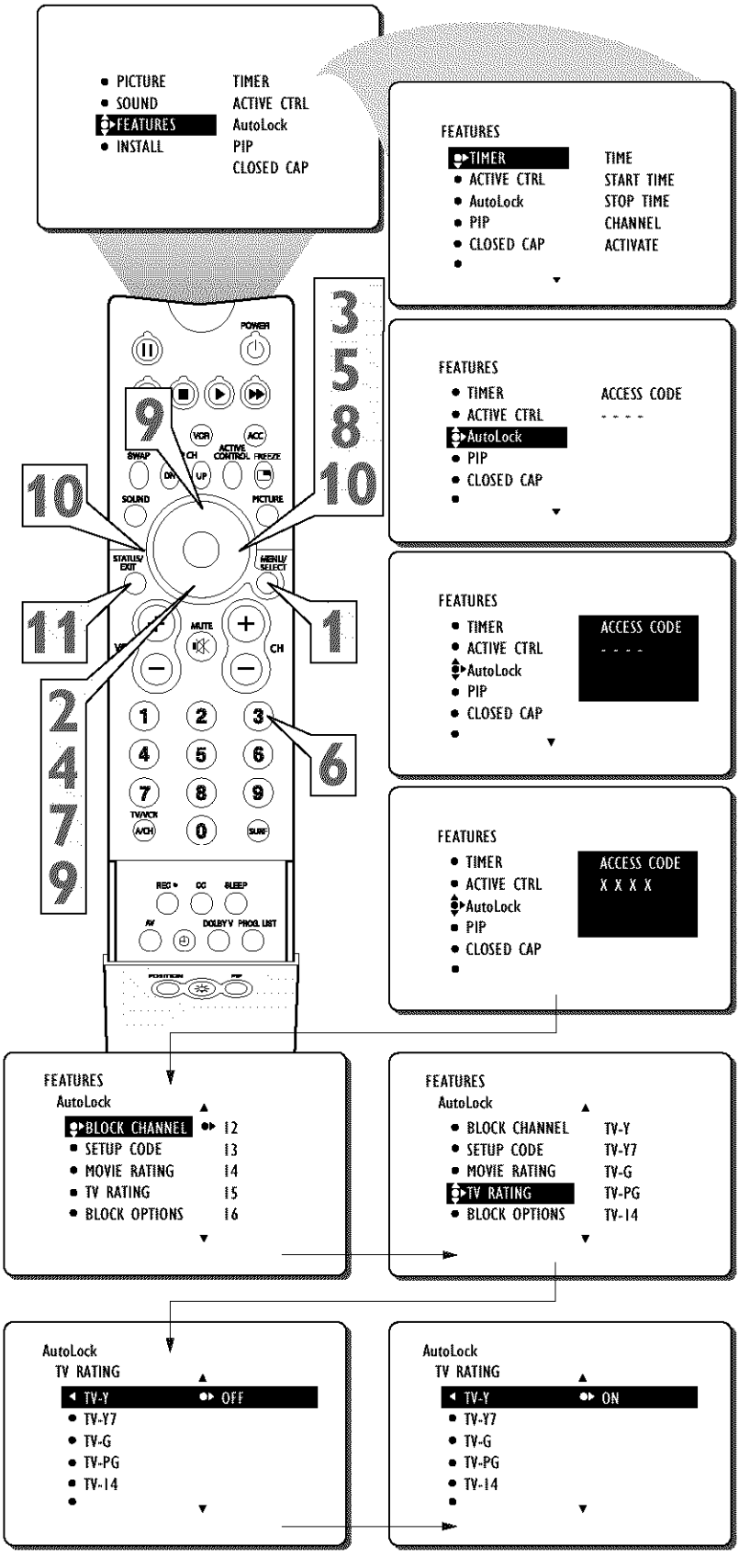
NOTE: More specific subratings (for violence, sexual content, dialogue, or fantasy violence) are available for TV-Y7, TV-PG, TV-14, and TV-MA. (Refer to page 30 for definitions.)

To access these subratings, with the main rating selected, **press the CURSOR RIGHT button.** Then, repeat steps 9 and 10 to turn the sub-ratings ON or OFF.

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

Helpful Hint

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



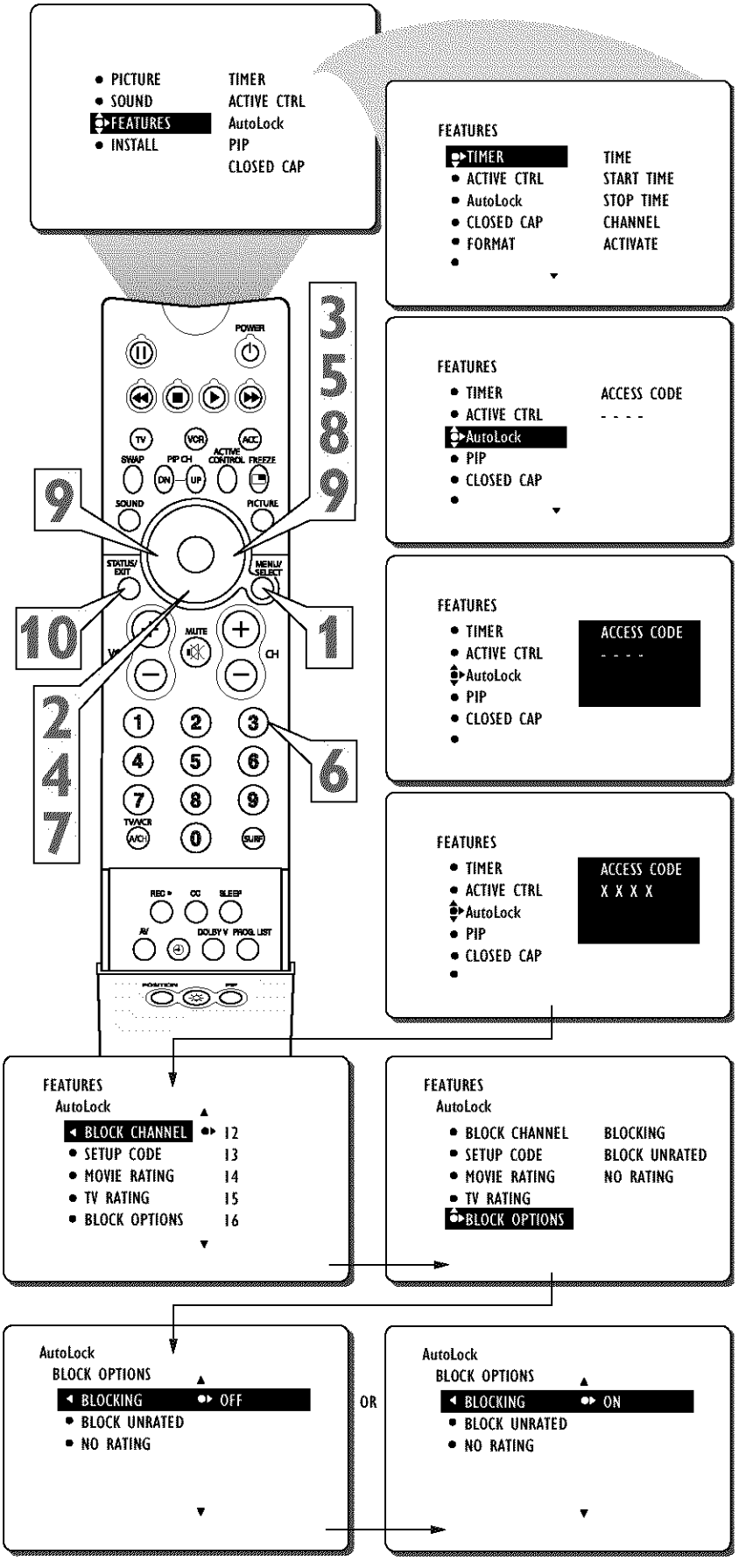
OTHER AUTOLOCK BLOCKING OPTIONS - BLOCKING CONTROL

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

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN button** repeatedly until BLOCK OPTIONS is highlighted.
8. **Press the CURSOR RIGHT button** to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
9. **Press the CURSOR RIGHT or LEFT button** to toggle BLOCKING ON or OFF.
10. **Press the STATUS/EXIT button** to remove the menu from the screen.

HELPFUL HINT

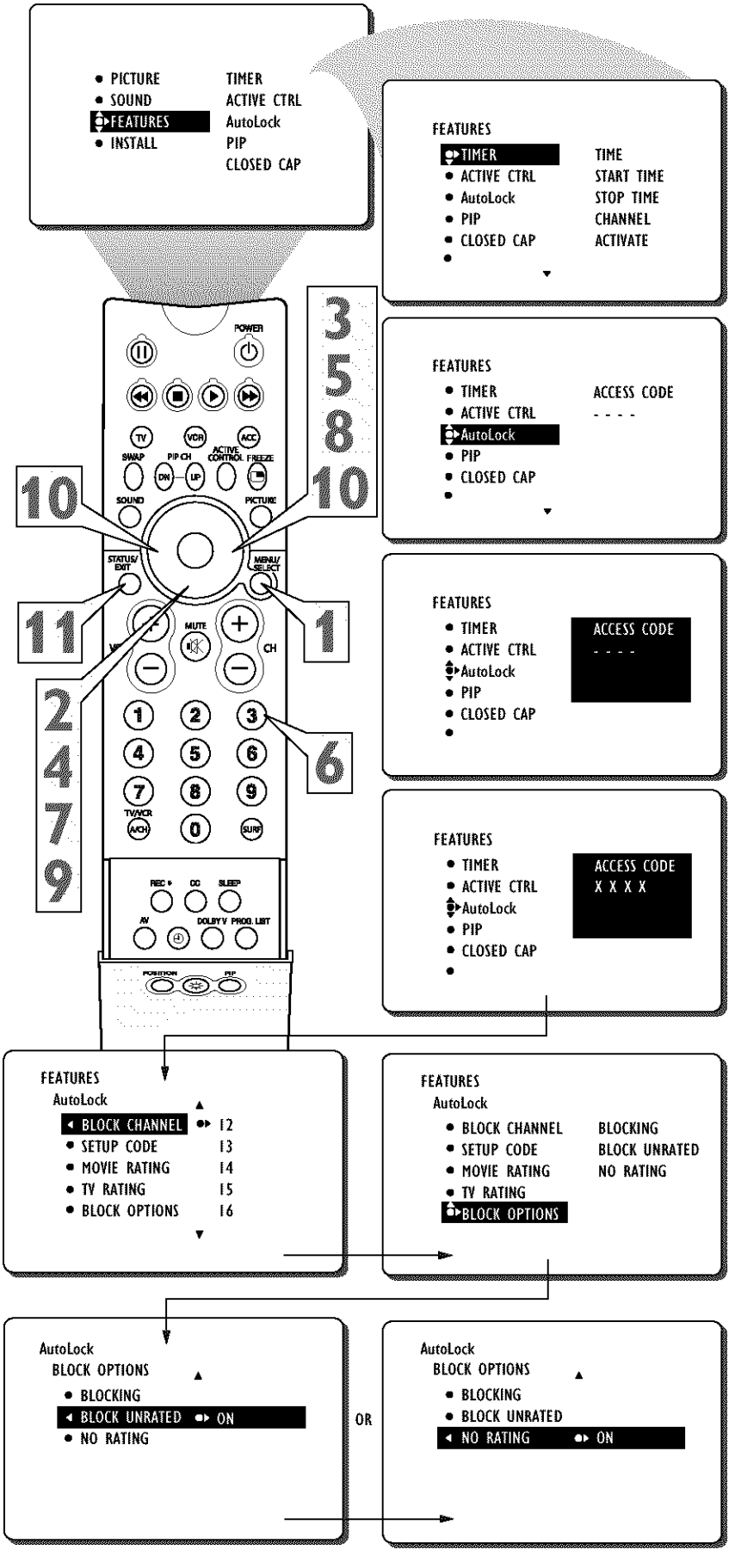
Remember, when the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen.



OTHER AUTOLOCK BLOCKING OPTIONS - UNRATED AND NO RATING

Some programming is not encoded with content advisory data by the MPAA (Motion Picture Association of America) or the television broadcasters (see the explanation on page 26). To block unrated or no rating programming, follow these steps.

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** once to highlight the AutoLock control.
5. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
6. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
7. **Press the CURSOR DOWN button** repeatedly until BLOCK OPTIONS is highlighted.
8. **Press the CURSOR RIGHT button** to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
9. **Press the CURSOR DOWN button** to highlight either the BLOCK UNRATED or NO RATING option.
10. **Press the CURSOR RIGHT or LEFT button** to toggle either the BLOCK UNRATED or NO RATING ON or OFF.
11. **Press the STATUS/EXIT button** to remove the menu from the screen.



How to Review the AutoLock™ Status Screen

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

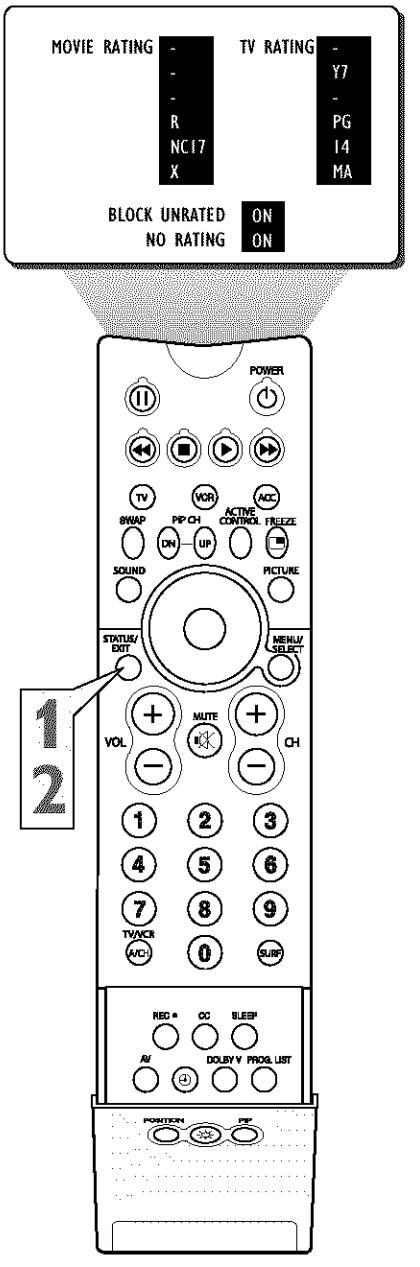
1 **Press the STATUS/EXIT button** on your remote control **TWICE**. Your AutoLock™ settings will appear on the screen.

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

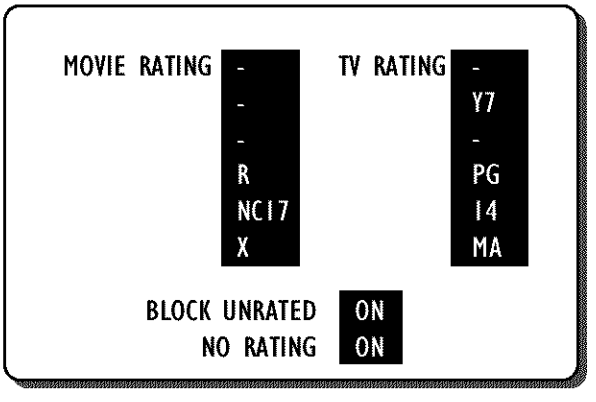
2 After a few seconds, the settings will leave the screen automatically, or you can **press the STATUS/EXIT button** a third time to remove them from the screen.

Helpful Hint

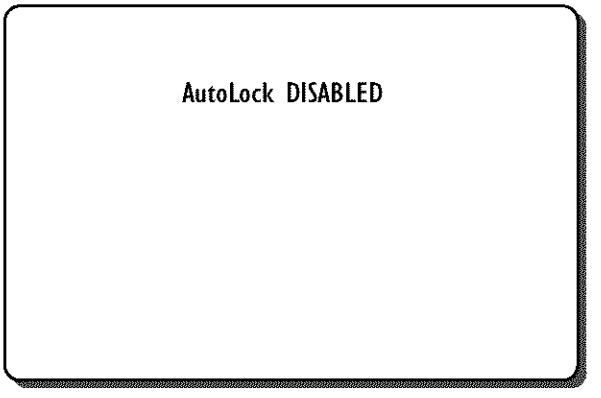
The AutoLock™ Status screen will only appear if the BLOCKING option is set to ON. For details, see page 32.



This display will appear after the step 1 above is completed if the AutoLock™ BLOCKING option is set to ON.



This display will appear after the step 1 above is completed if the AutoLock™ BLOCKING option is set to OFF.



How to use the Closed Captioning Control

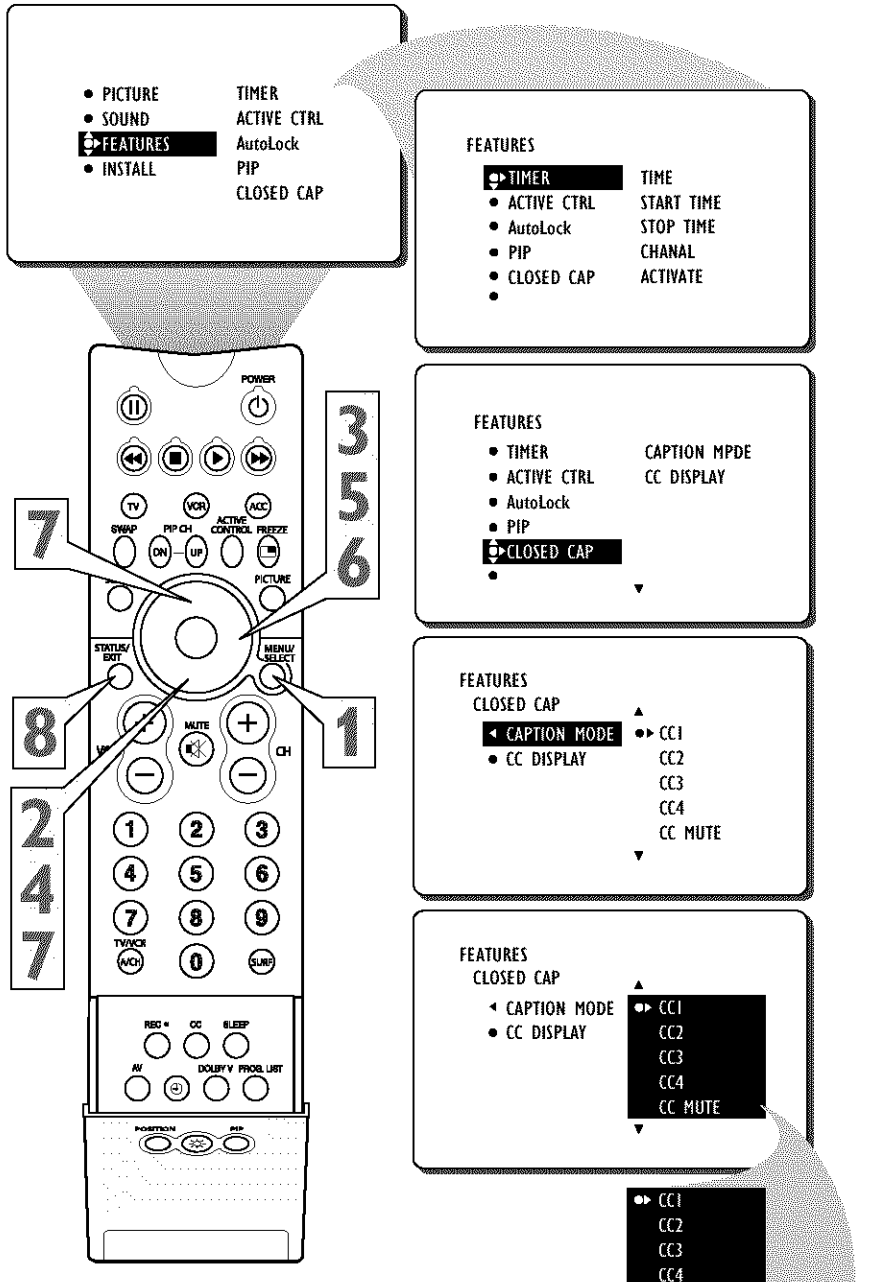
Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.

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

1. **Press the MENU button** on the remote control to show the on-screen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the CLOSED CAP control is highlighted.
5. **Press the CURSOR RIGHT button** again. The menu will shift to the left and CAPTION MODE will be highlighted.
6. **Press the CURSOR RIGHT button** to highlight CAPTION MODEs.
7. **Press the CURSOR UP or CURSOR DOWN button** to select a CAPTION MODE: CC1, CC2, CC3, CC4, CC MUTE, TXT1, TXT2, TXT3, or TXT4. CC DISPLAY turns text OFF or ON if the TV station broadcasting on the channel is making CLOSED CAPTIONING available. With CC DISPLAY highlighted, press the CURSOR RIGHT button to toggle Closed Captioning ON or OFF.

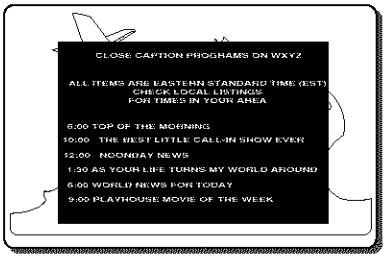
NOTE: You also can press the CC button on the remote control to turn the CC TEXT option ON or OFF.

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



CAPTION Mode Example Display

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



How to Use the Screen Format Control

You can change the screen format size to match the type of program you're watching. Select the normal 4:3 aspect ratio or any of the zoom or wide screen aspect ratios.

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

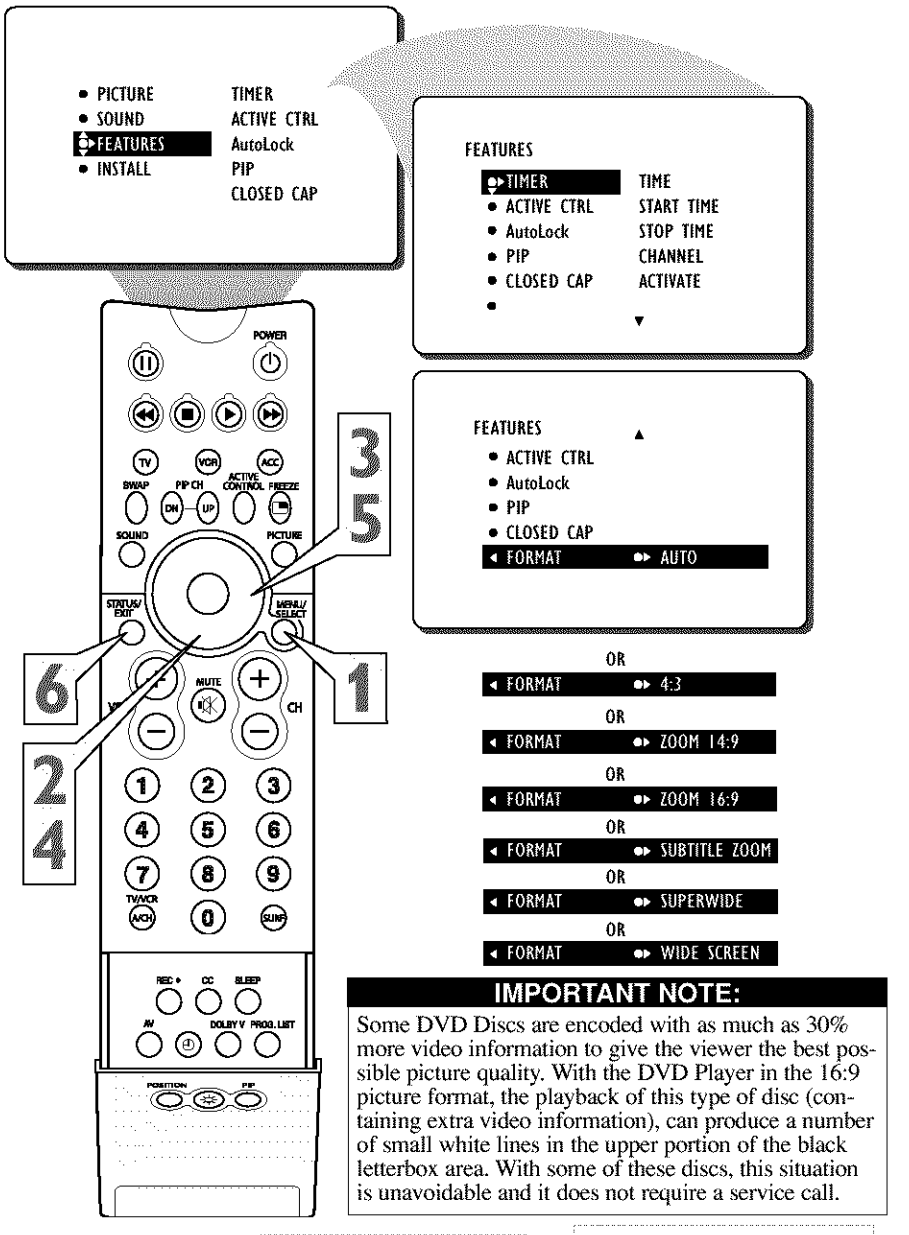
2 **Press the CURSOR DOWN button** twice to highlight FEATURES.

3 **Press the CURSOR RIGHT button** and the menu will shift to the left.

4 **Press the CURSOR DOWN button** repeatedly until the FORMAT control is highlighted.

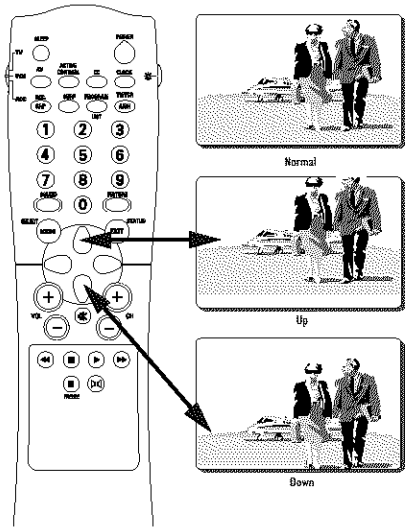
5 **Press the CURSOR RIGHT button** repeatedly to toggle among the six screen format sizes – AUTO, 4:3, ZOOM 14:9, ZOOM 16:9, SUBTITLE ZOOM, SUPER WIDE or WIDE SCREEN.

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



Helpful Hint

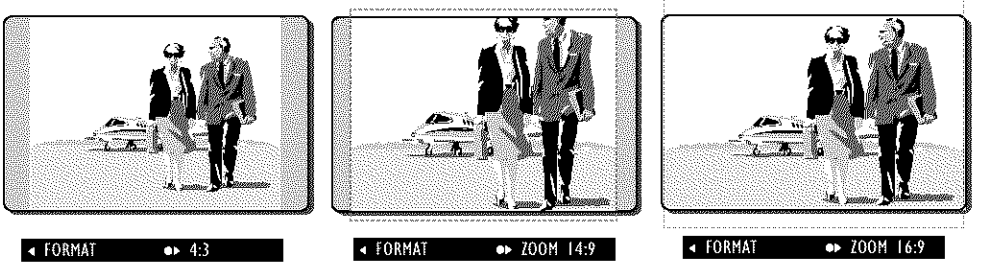
When the onscreen menu is not displayed, pressing the CURSOR RIGHT or LEFT buttons will toggle the screen FORMAT options.

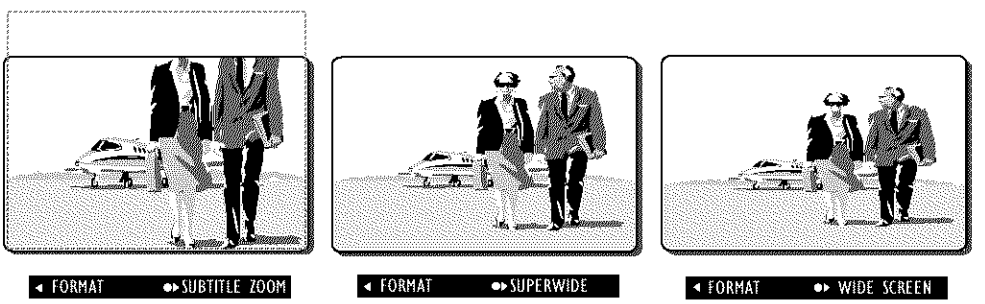


Use the CURSOR UP or DOWN buttons to move *(pan)* the picture up or down in short movements when needed. This will work in all formats except 4:3, and WIDE SCREEN.

IMPORTANT NOTE:

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

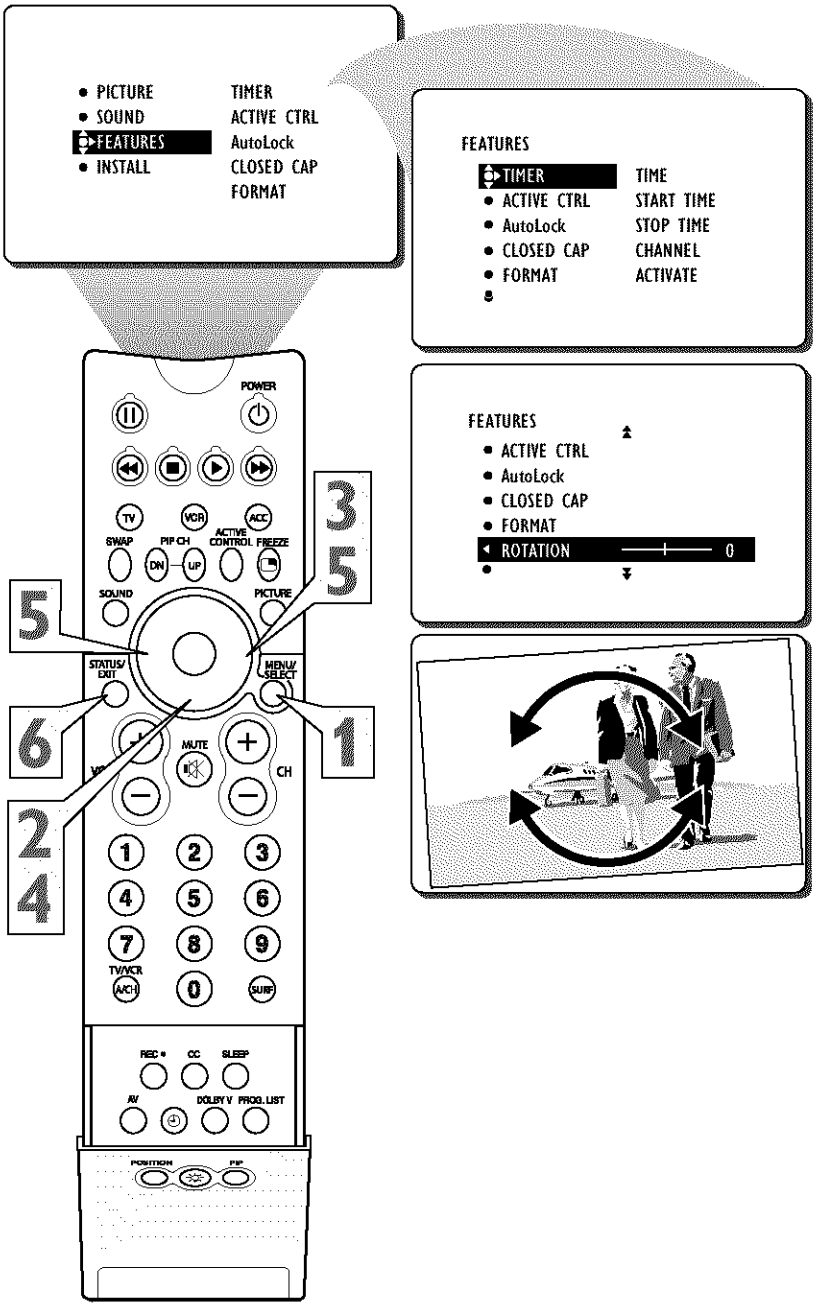




How to use the Rotation Control

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

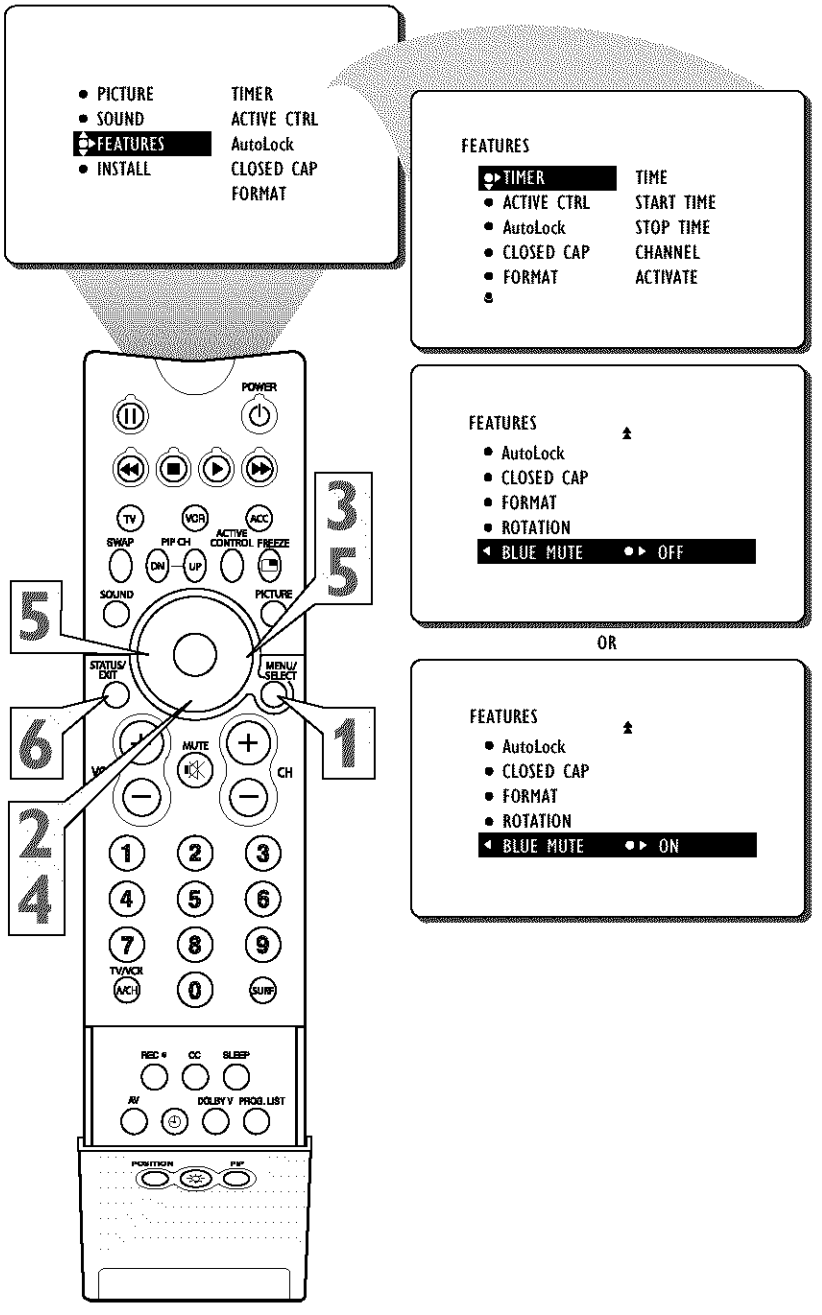
1. **Press the MENU button** on the remote control to show the on-screen menu.
2. **Press the CURSOR DOWN button** until FEATURES is highlighted.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the ROTATION control is highlighted.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

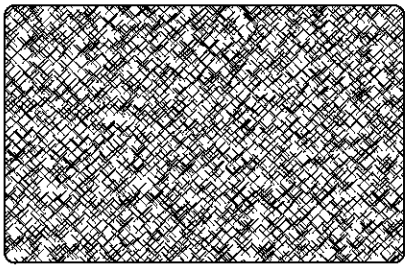


How to set the Blue Mute Control

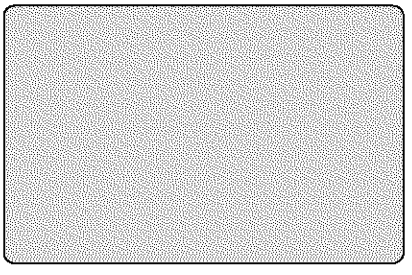
Normally, the television would display a "snowy" looking screen with a lot of static sounds when the signal is lost. The Blue Mute control will automatically set the screen to a pleasant blue background when it detects no signal available if turned on.

1. **Press the MENU/SELECT button** on the remote control to show the on-screen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the BLUE MUTE control is highlighted.
5. **Press the CURSOR RIGHT or LEFT button** to toggle the control ON or OFF.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.





BLUE MUTE OFF
"Snowy" Picture



BLUE MUTE ON
Pleasant Blue Screen

How to Set the Sleep Timer Control

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

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

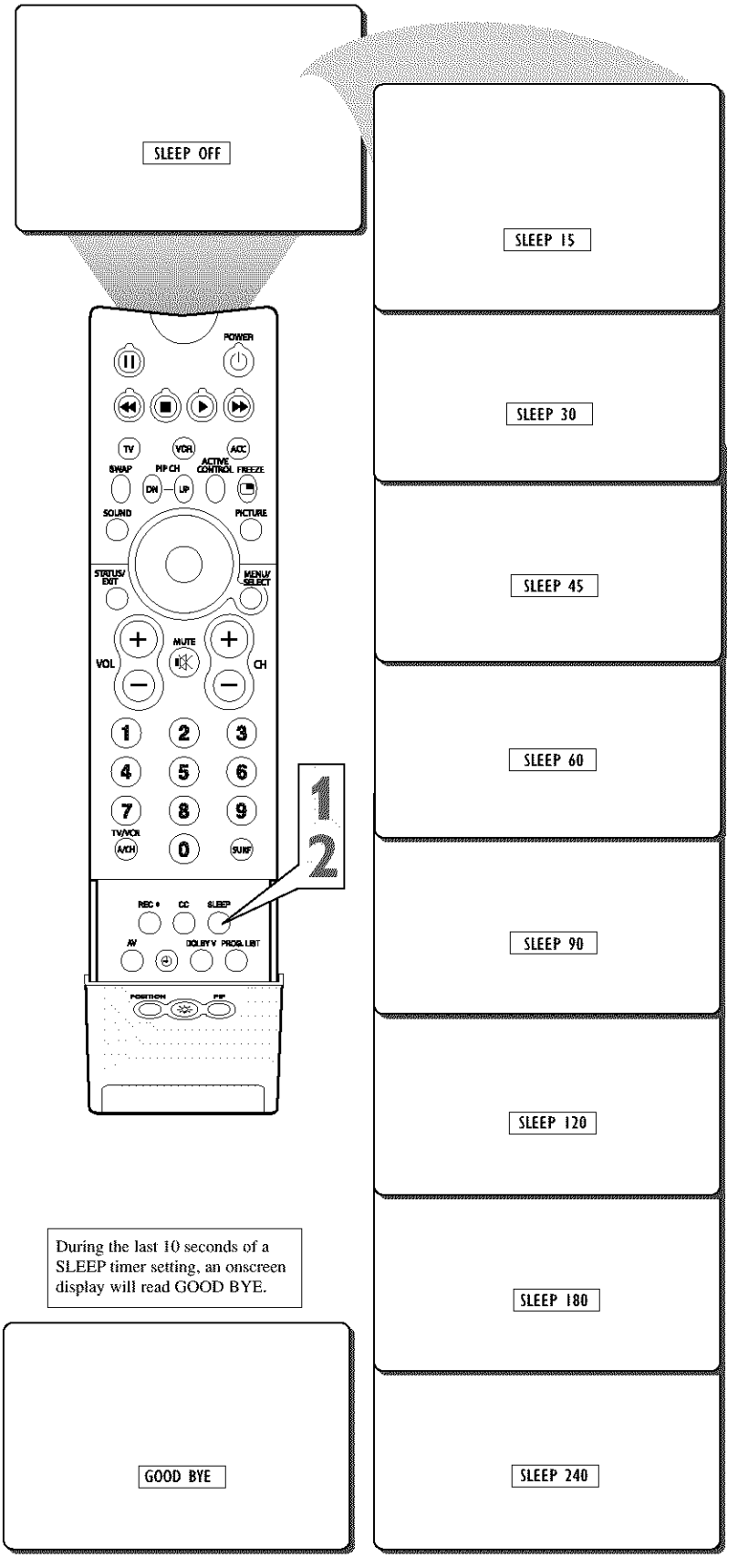
2 **Within five seconds, press the SLEEP button** repeatedly to pick the amount of time (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes) before the TV will turn itself off.

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

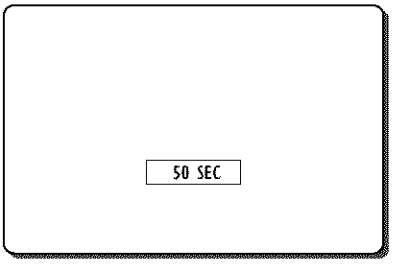
Helpful Hint

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

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



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



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

How to Use the Freeze Control

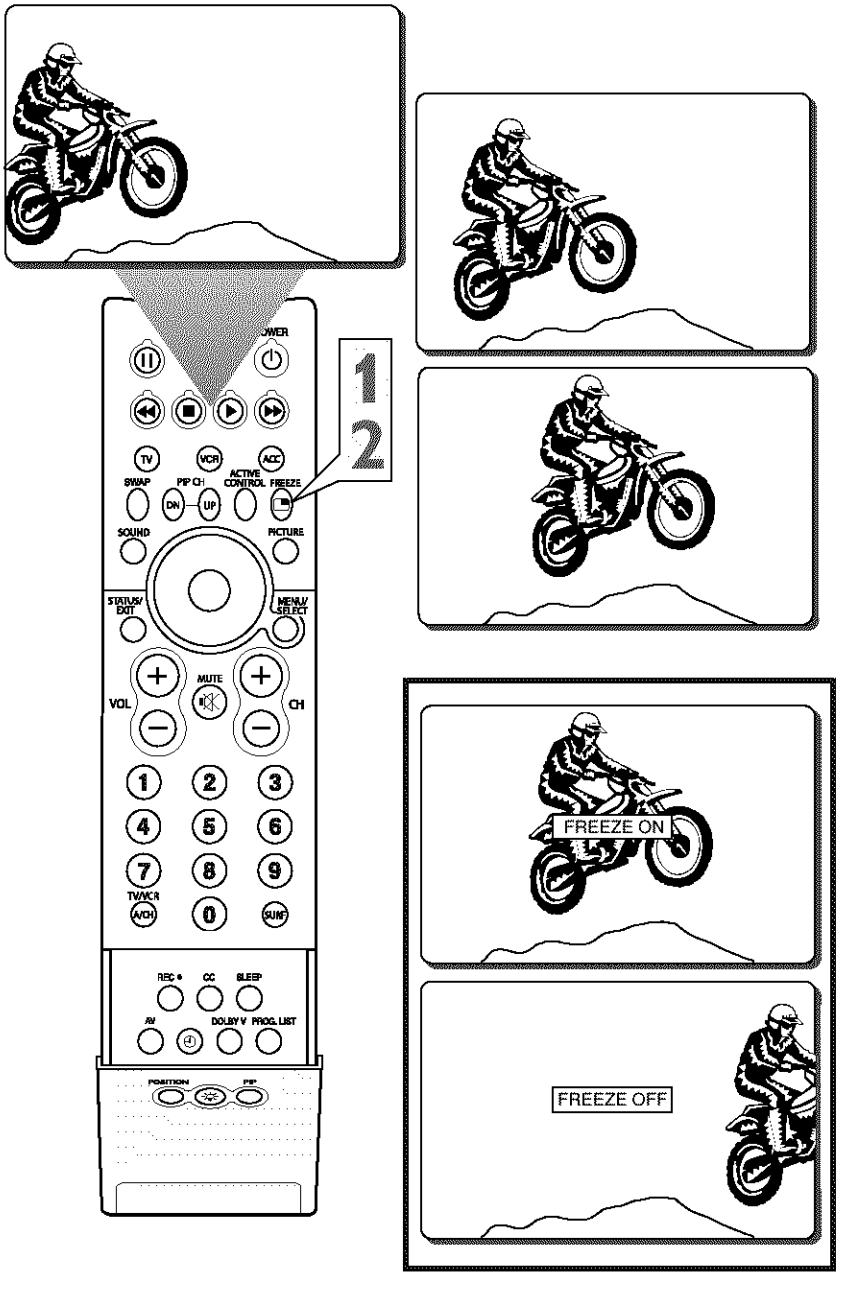
Have you ever wished you could freeze the picture on the television broadcast to write down a special telephone number or to capture a needed address? Your television will allow you to do just that with the press of just one button on the remote control.

1 With a signal on the television screen, simply **press the FREEZE button** on the remote control to stop the picture at any given moment.

The screen will read **"FREEZE ON"** momentarily and the picture frozen on the screen.

2 **Press the FREEZE button** on the remote control again to resume normal viewing.

The screen will read **"FREEZE OFF"** momentarily while the television displays a normal moving picture again.



Helpful Hint

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

If the FREEZE button is pressed when the AV4 Inputs (AV4 Channel) is tuned, the screen will read "FREEZE NOT AVAIL."

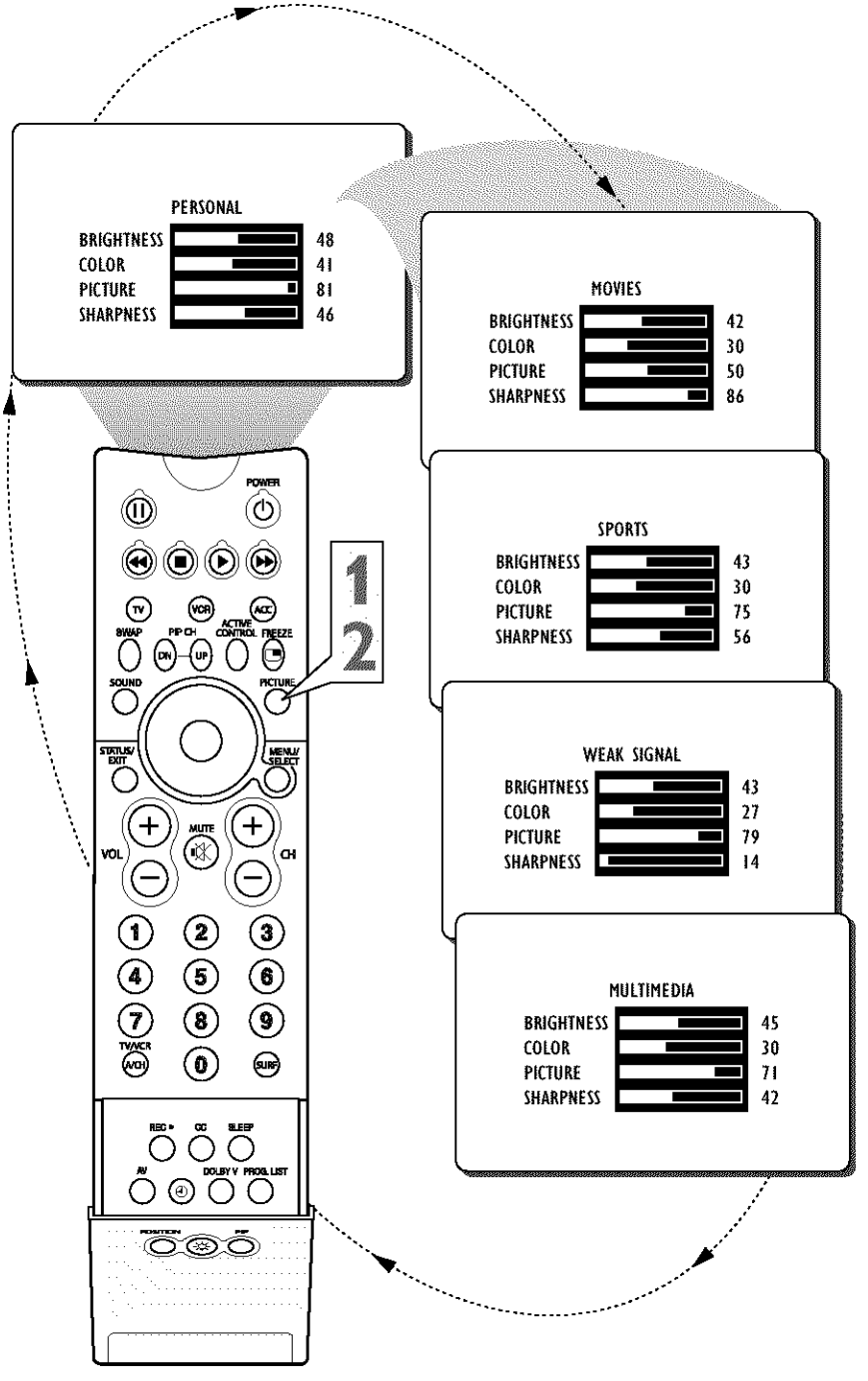
How to Use the AutoPicture™ Control

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

1 **Press the PICTURE button** on the remote control. The current AutoPicture™ setting will appear in the middle of the screen.

2 **Press the PICTURE button repeatedly** to select either PERSONAL, MOVIES, SPORTS, WEAK SIGNAL, or MULTIMEDIA picture settings.

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



NOTE: The values shown in the diagram above are sample values only. Your television's values may vary and display different numbers.

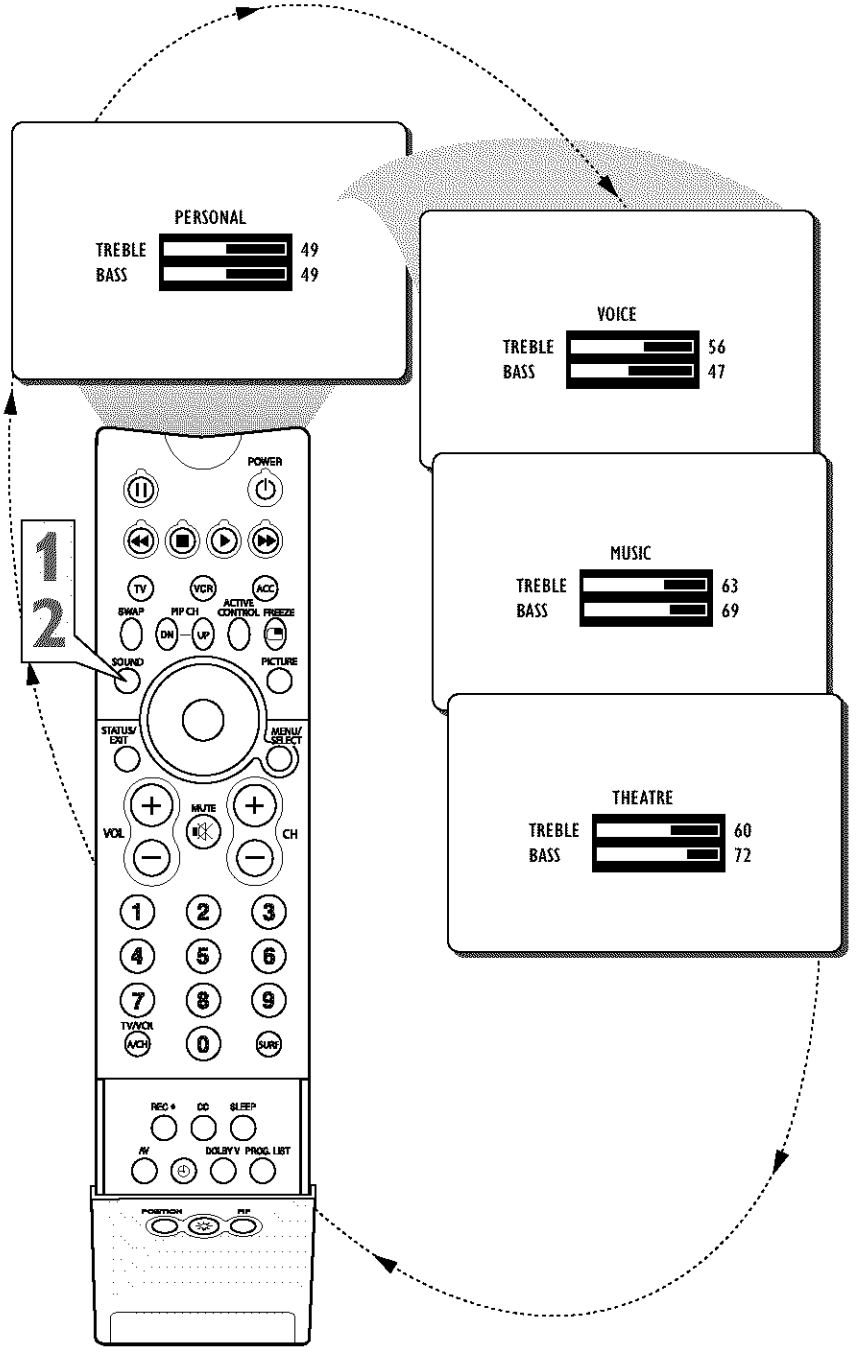
How to Use the AutoSound™ Control

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 menu. The three factory-set controls (Voice, Music, and Theatre) enable you to tailor the TV sound so as to enhance the particular program you are watching. Follow these steps to select any of the options.

1 **Press the SOUND button** on the remote control. The current AutoSound™ setting will appear in the middle of the screen.

2 **Press the SOUND button repeatedly** to toggle among the four settings: PERSONAL, VOICE, MUSIC, or THEATRE.

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



Helpful Hint

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

☑ *Check It Out*

PERSONAL – presents the TV's sound according to the settings you make within the sound menu.

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.

NOTE: The values shown in the diagram above are sample values only. Your television's values may vary and display different numbers.

How to Use Surf Control (and Alternate Channel)

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

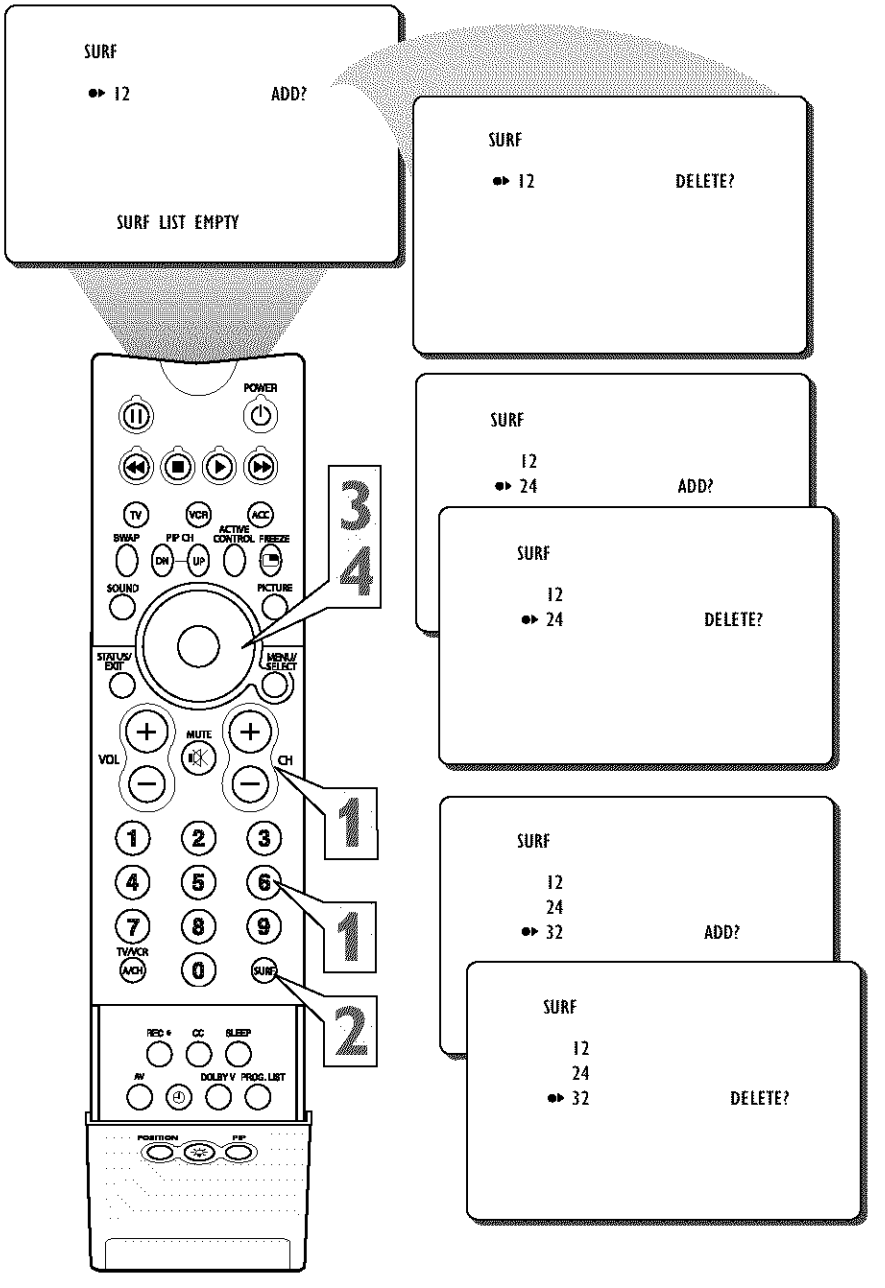
1 **Press the CHANNEL(+) or (–) button** (or the numbered buttons) to select a channel to add to the SURF list.

2 **Press the SURF button** on the remote control. The onscreen display may read, "SURF LIST EMPTY." The number of the current channel will be shown with "ADD?" to the right.

3 While the SURF list message or the SURF channel list appears on the screen, **press the CURSOR RIGHT button** to add the present channel to the SURF list.

4 If you want to delete the present channel from the SURF list, **press the CURSOR RIGHT button** again.

Repeat steps 1 through 3 to add more channels (up to 10) to the SURF list.



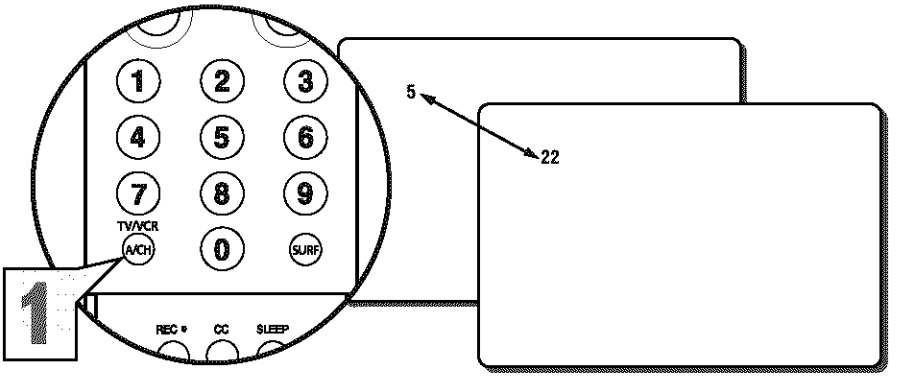
Helpful Hint

Along with regularly programmed channels, the external video source connections can be added to the SURF list. This means that the AV1, CVI, AV2, AV3, and AV4 channels can be added to your SURF list. Just tune to their channel and use the same procedure described on this page.

Alternate Channel Button

Your remote also has an A/CH (Alternate Channel) button. Pressing this button will toggle between the current and one previous channel.

1 **Press the A/CH button** toggle between the present channel and the last previously viewed channel.



USING THE REMOTE WITH ACCESSORY DEVICES - DIRECT ACCESS

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.

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?

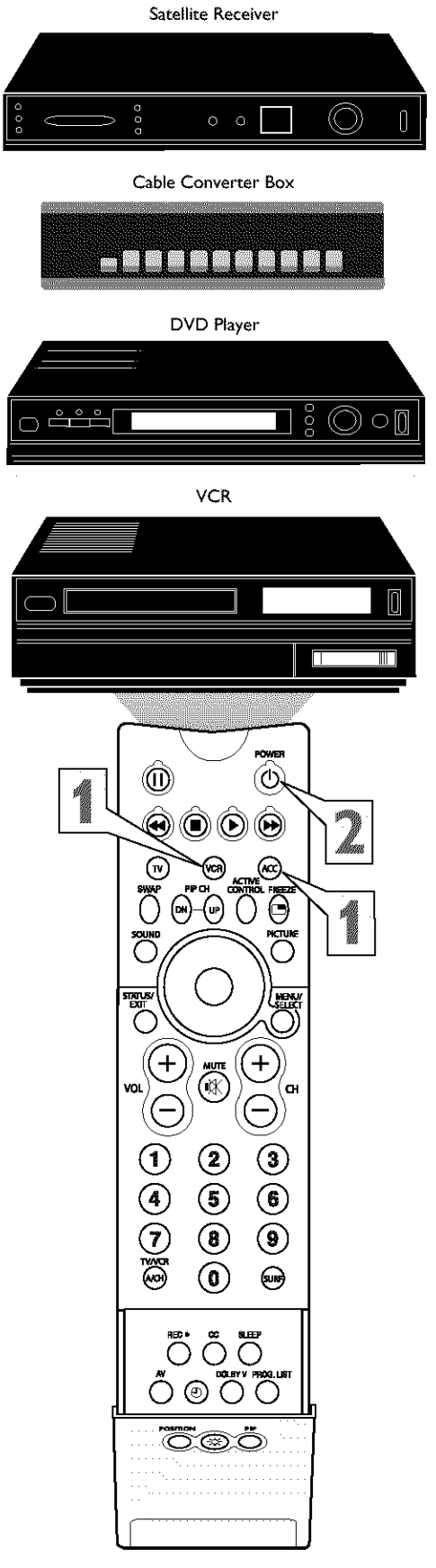
If yes, then try other function buttons on the TV remote. With a VCR, for example, try the Play, Stop, and Rewind buttons, for example. If they also work the accessory device, then the remote is ready and no further steps are needed.

If not, do the following:

Look up a four-digit remote code number on pages 46 and 47 for your brand of accessory device. Then go through the simple steps for entering a four-digit code as explained on the next page.

HELPFUL HINT

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



USING THE REMOTE WITH ACCESSORY DEVICES - CODE ENTRY

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.

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 46 and 47).

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.

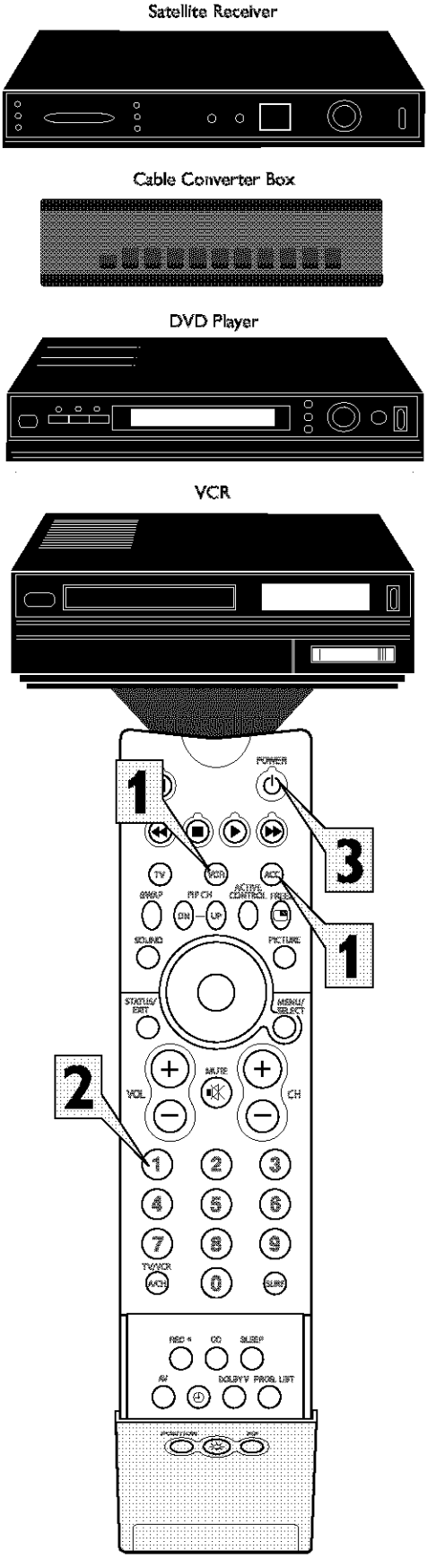
3 **Point the remote at the accessory device.** Then press the POWER button on the remote to turn the device on.

HELPFUL HINT

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 the procedure explained above does not work the first time, repeat the steps using the same remote 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.



USING THE REMOTE WITH ACCESSORY DEVICES - SEARCH

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.*

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.

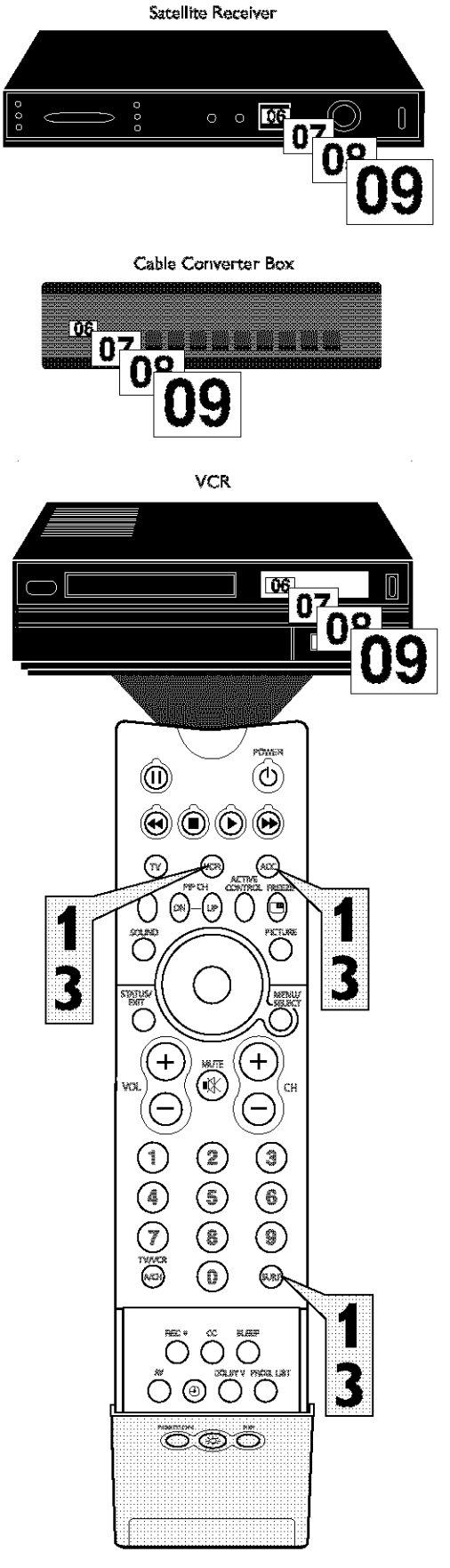
NOTE: If no channel change happens after several minutes, repeat steps 1 and 2. Then if a channel change still does not occur, the remote will not work with the desired accessory device.

HELPFUL HINT

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.

This process can take 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.



CODE-ENTRY CODE LIST FOR ACCESSORY DEVICES

VCR

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

DVD PLAYER

	CODE NUMBER
DENON	0859
GE	0862
HARMAN/KARDON	0871
HITACHI	0870
JVC	0868
KENWOOD	0865
MAGNAVOX	0860
MARANTZ	0866
MITSUBISHI	0861
ONKYO	0860
OPTIMUS	0869
PANASONIC	0859
PHILIPS	0866, 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

Code-Entry Code list for Accessory Devices

Laser-disc Player

Code number
ADS 0880
Aiwa 0855
Carver 0853, 0850, 0858
Denon 0851, 0849, 0875
Disco Vision 0848
Funai 0855
Harman/Kardon 0853
Hitachi 0848
Kenwood 0877
Magnavox 0853, 0857, 0875
Marantz 0853, 0850
Mitsubishi 0849
NAD 0849
NEC 0879
Nikkodo 0884
Optimus 0849
Panasonic 0856
Philips 0853, 0850
Pioneer 0849, 0848
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
ABC 0030, 0028, 0034, 0035, 0038, 0040, 0041, 0044, 0060
Allegro 0180, 0342
Antronix 0049, 0234
Apache 0797
Archer 0049, 0066, 0180, 0234, 0824
BBT 0294
Belcor 0083
Bell & Howell 0041
Cable Star 0083
Cabletenna 0049
Cableview 0049
Century 0180
Citizen 0180, 0342
Colour Voice 0052, 0058
Comband 0259
Comtronics 0067, 0087
Contec 0046
Dic 0664
Eastern 0029
Emerson 0824
Everquest 0042, 0067
Focus 0427
GC Electronics 0083, 0234
GE 0259
Garrard 0180
Gemini 0042, 0097, 0269, 0824
General Instrument 0303, 0038, 0503, 0837
GoldStar 0067, 0171
Goodmind 0797, 0824
Hamlin 0047, 0036, 0286, 0061, 0300
Hitachi 0038
Hytex 0034
Jasco 0042, 0180, 0342
Jerrold 0030, 0039, 0303, 0041, 0503, 0038, 0051, 0042, 0837
Lindsay 0467
Macom 0060
Magnavox 0054
Memorex 0027
Movie Time 0090, 0183
NSC 0183, 0090, 0097
Nexus 0797
Novaplex 0645
Oak 0046, 0034
Optimus 0048
Panasonic 0048, 0134, 0027
Panther 0664
Paragon 0027
Philips 0052, 0058, 0269, 0317, 0054, 0180
Pioneer 0171, 0050, 0560
Popular Mechanics 0427
Prelude 0797
Pulsar 0027
Quasar 0027
RCA 0048
Radio Shack 0042, 0847, 0342, 0824
Realistic 0234
Recoton 0427
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
StarSight 0569, 0449
Starcom 0030, 0042
Stargate 0067, 0042, 0797, 0824
Starquest 0042
Sylvania 0028
TFC 0337
TV86 0090
Tandy 0285
TeleCaption 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
Zentek 0427

Satellite Receiver/Digital Satellite System

Code number
AlphaStar 0799
Amplica 0099
Amway 0070, 0102
Arunta 0548
Astro Industries 0122
BMC 0114
BSR 0122
Cable Innovations 0581
Capetronic 0122
Century 0565
Channel Master 0045, 0239
Chaparral 0080, 0236, 0243
Citoh 0191
Conifer 0031
Curtis Mathes 0088, 0099
DX Antenna 0068
Drake 0091, 0272, 0045, 0176
EchoStar 0307, 0802, 0175, 0186, 0296
Expressvu 0802
GE 0593
General Instrument 0388, 0896, 0574, 0581, 0654
Gould 0082
HNS 0644
HTS 0802
Hitachi 0846
Homecable 0265
Hughes Network Systems 0776
Hytek 0122
IQ 0237
IQ Prism 0237
Intersat 0070
JVC 0802
Janel 0179
Jerrold 0388, 0654
Legend 0296
Macom 0088, 0045
Magnavox 0749, 0751
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

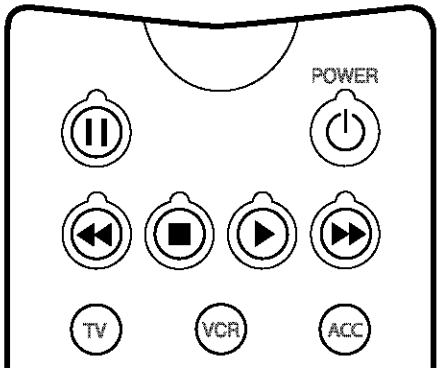
Remote Control with Accessory Devices

The chart below provides you with common accessory-device functions associated with the buttons on your Philips TV remote control.

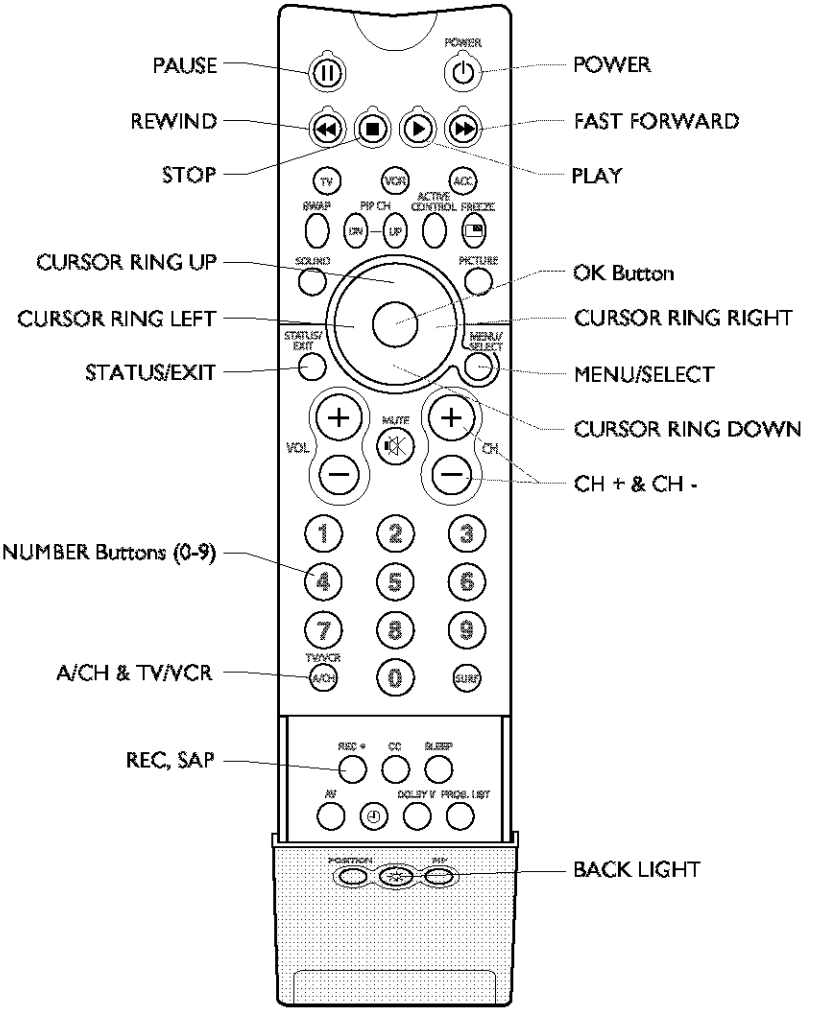
***NOTES:** Functions can vary according to the manufacturer's specifications for each accessory device.*

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.

PIP – Selecting the Signal Source

The picture for the PIP window can come through either the ANT/CABLE or any of the external Audio/Video connections at the rear of the TV. PIP SOURCE simply tells the TV which one of these sources it is to show in the PIP window.

1 **Turn the TV and VCR** (or other device hooked to the external A/V connections) ON.

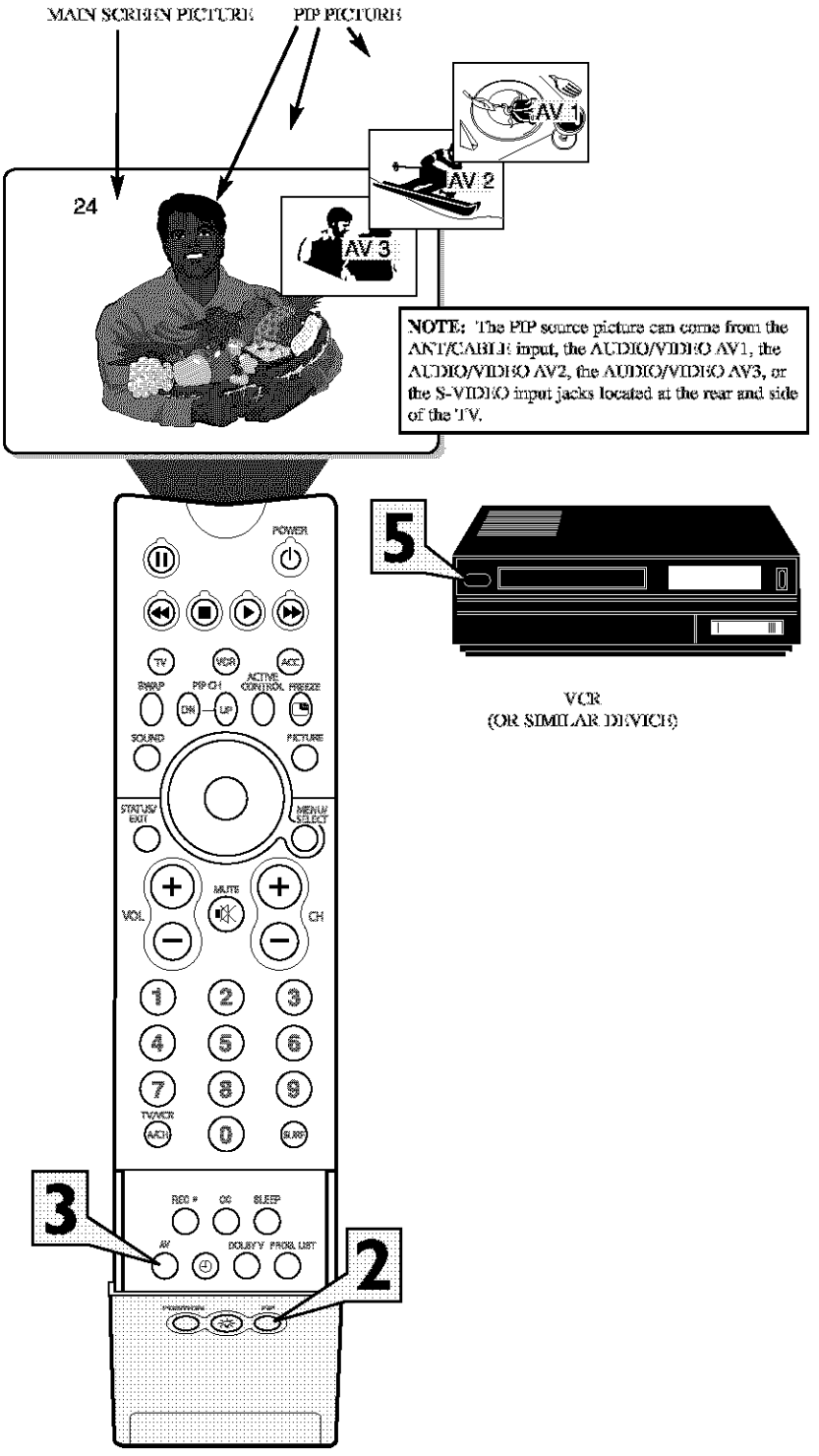
2 **Press the PIP ON/OFF button** on the remote control. The PIP window should appear in the upper right-hand portion of the screen.

3 **Press the AV button** on the remote control to toggle among the different external connections.

The PIP SOURCE may come from the following:

AV1, AV2, AV3, S-VIDEO, CVI: for picture signal coming from the external audio/video jacks on the TV. (You must have an external device hooked up at these locations.)

ANTENNA/CABLE: for a picture signal coming from the ANT/CABLE input on the back of the TV.



PIP – Remote Control Buttons

By using the PIP buttons on the remote control, you can change the size of the PIP window and move and swap the PIP picture with the main screen. The PIP picture also can be frozen within the PIP window.

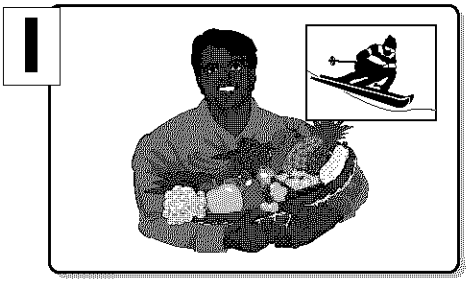
1 **Press the PIP button** to show the PIP window. PIP appears in one of the four corners of the screen.
The PIP button will also change the PIP Window size and format (refer to the next page, PIP Window Size & Double Window PIP section).

2 **Press the POSITION button** on the remote control to move the PIP picture to any of the four corners.

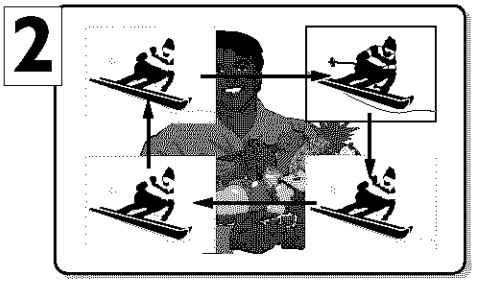
3 **Press the FREEZE button** on the remote control to stop the action within the PIP window. **Press the FREEZE button** again to resume the normal viewing action.

4 **Press the PIP CH(annel) UP/DN buttons** on the remote control to choose a different channel or a different PIP source.

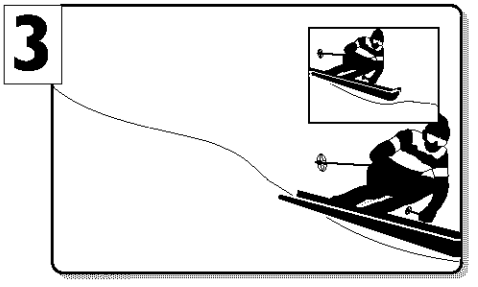
5 **Press the SWAP button** to swap the main screen picture with the PIP picture. Pressing the SWAP button again will return the main picture to the screen.



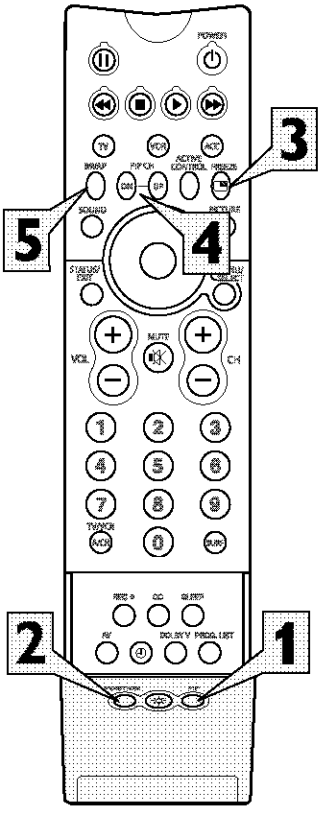
1. PIP ON/OFF



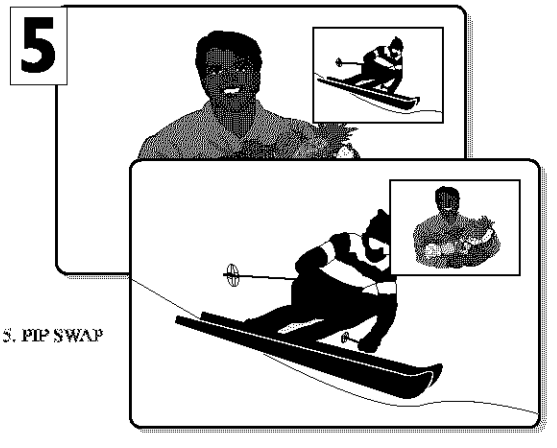
2. PIP POSITION



3. PIP FREEZE



4. PIP CHANNEL UP/DN

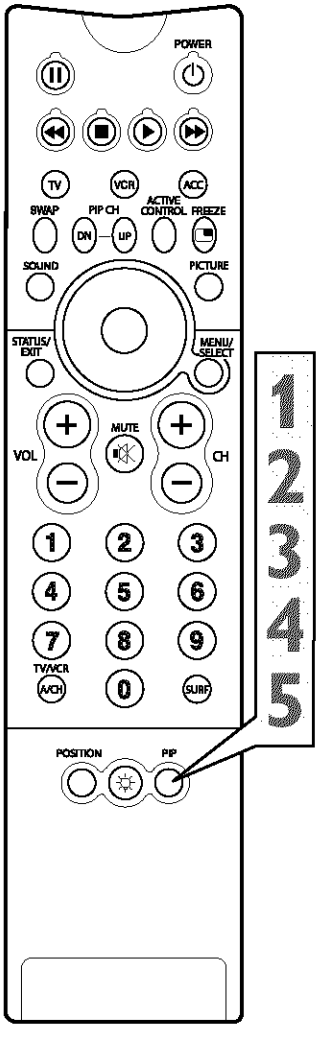


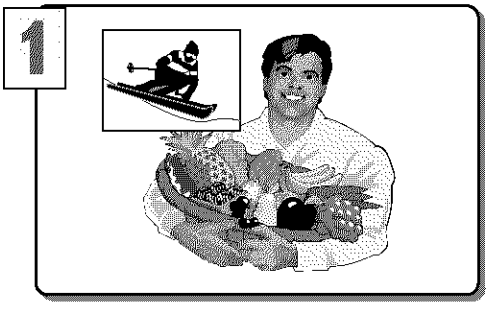
5. PIP SWAP

PIP – Adjusting the PIP Window Size and Double Window PIP

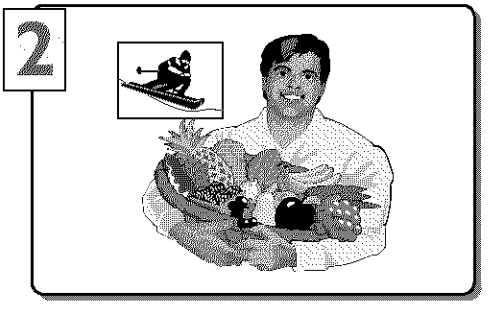
The PIP Window can be viewed in four different formats. There is a "large" PIP window, a "small" PIP window, a double PIP window, and a double PIP window in the 16:9 aspect ratio. The steps below show how to access the PIP Window and how to size them.

1. **Press the PIP ON/OFF button on the remote** to show the PIP Window. The PIP window will appear in the *LARGE* format.
2. **Press the PIP ON/OFF button on the remote again** and the PIP Window will reduce in size to the *SMALL* format.
3. **Press the PIP ON/OFF button on the remote a third time** to display Double Window PIP. Double Window PIP will split the screen with the main picture on one side and the PIP picture on the other.
4. **Press the PIP ON/OFF button a forth time** to change the Double Window PIP to a 16:9 aspect ratio.
5. **Press the PIP ON/OFF button on the remote a forth time** and the PIP window will be shut OFF, clearing the PIP window from the screen.

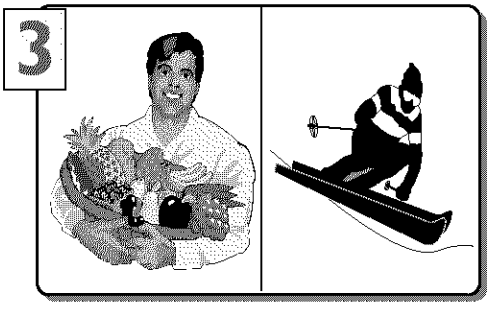




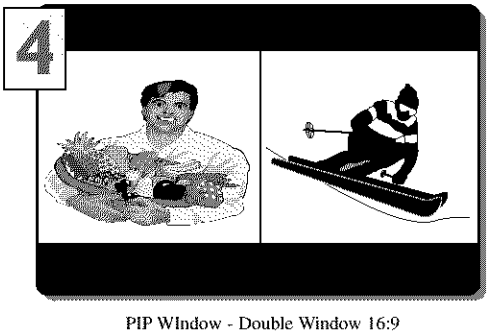
PIP Window - LARGE



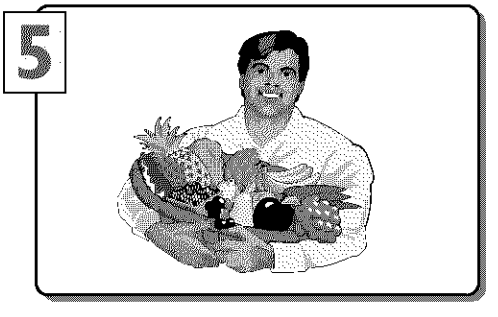
PIP Window - SMALL



PIP WIndow - Double Window



PIP WIndow - Double Window 16:9

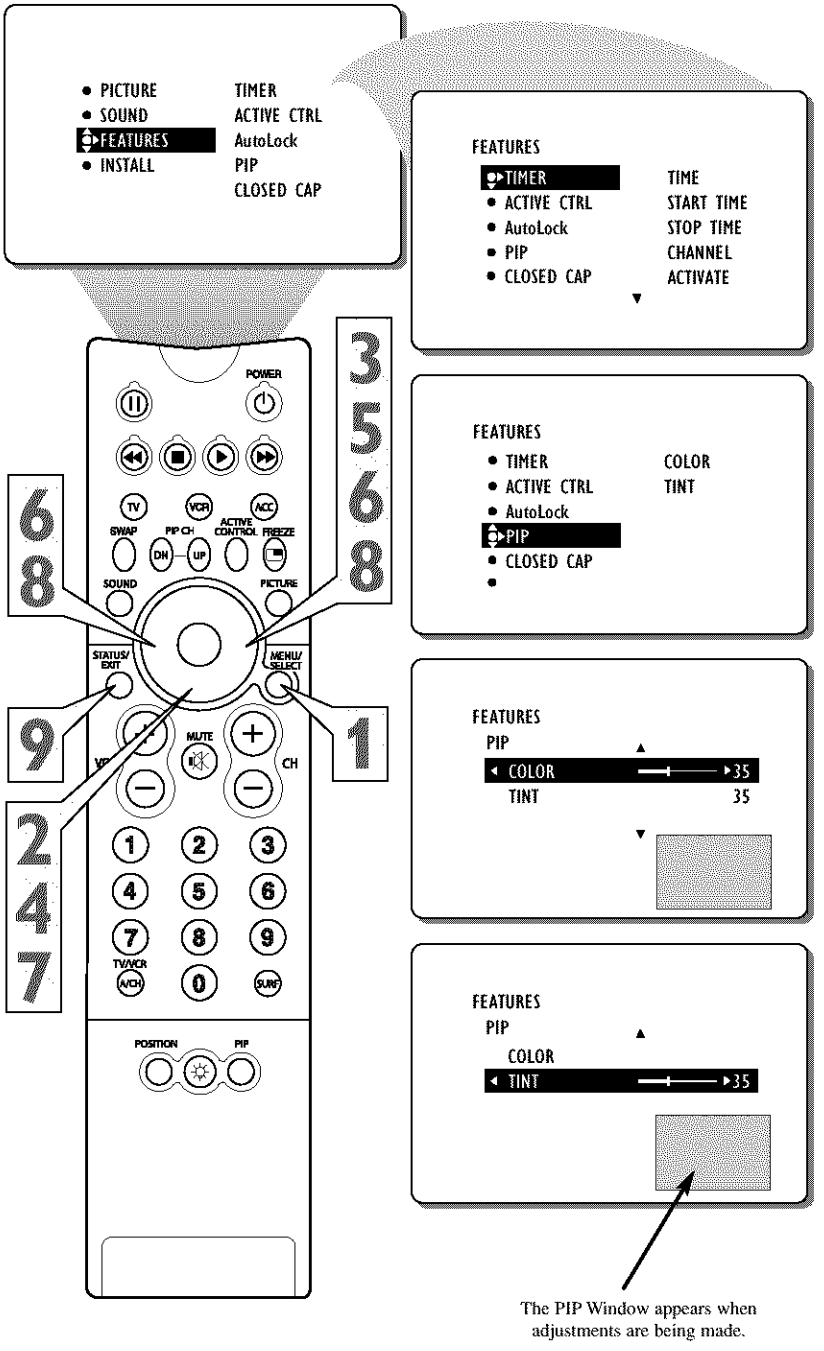


PIP WIndow - OFF

PIP – Adjusting the Color and Tint

The Picture-in-Picture (PIP) COLOR and TINT controls are used to make fine-tune adjustments to the picture settings for PIP (when shown on the TV screen).

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN** twice to highlight **FEATURES**.
3. **Press the CURSOR RIGHT** and the menu will shift to the left.
4. **Press the CURSOR DOWN** twice to highlight PIP.
5. **Press the CURSOR RIGHT** again to shift the display to the COLOR adjustment bar.
6. **Press the CURSOR RIGHT or the CURSOR LEFT** to adjust the COLOR bar to the desired level.
7. **Press the CURSOR DOWN** to highlight the TINT adjustment bar.
8. **Press the CURSOR RIGHT or the CURSOR LEFT** to adjust the TINT bar to the desired level.
9. **Press the STATUS/EXIT button** to remove the menu from the screen.



The PIP Window appears when adjustments are being made.

No Power

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

No Picture

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

No Sound

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

Remote Does Not Work

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

Remote Does Not Work Continued

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

TV Displays Wrong Channel or No Channels Above 13

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

TV Displays white lines in letterbox when viewing a DVD disc

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

WARNING Concerning Stationary Images on the TV Screen:

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

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

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

PLACEMENT OF THE TV

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

CLEANING

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

Glossary of Television Terms

Active Control • Active Control continuously measures and corrects the incoming signals to provide the best picture possible.

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

Audio/Video Inputs • These jacks are designed to receive higher picture resolution and offer sound-connection options.

Auto Programming • This feature 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.

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 shows 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.

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.

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

High-definition Television (HDTV) • High-resolution digital television.

Incredible Stereo (or Surround) • FProduces a dramatic expansion of the wall of sound that surrounds the listener.

Menu • An onscreen list of feature controls.

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).

Remote Control Sensor Window • The window found on the television through which infrared command signals are received.

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 • The remote control function that allows you to confirm the current channel. Status/Exit can also be used to clear the screen of menu displays or information.

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.

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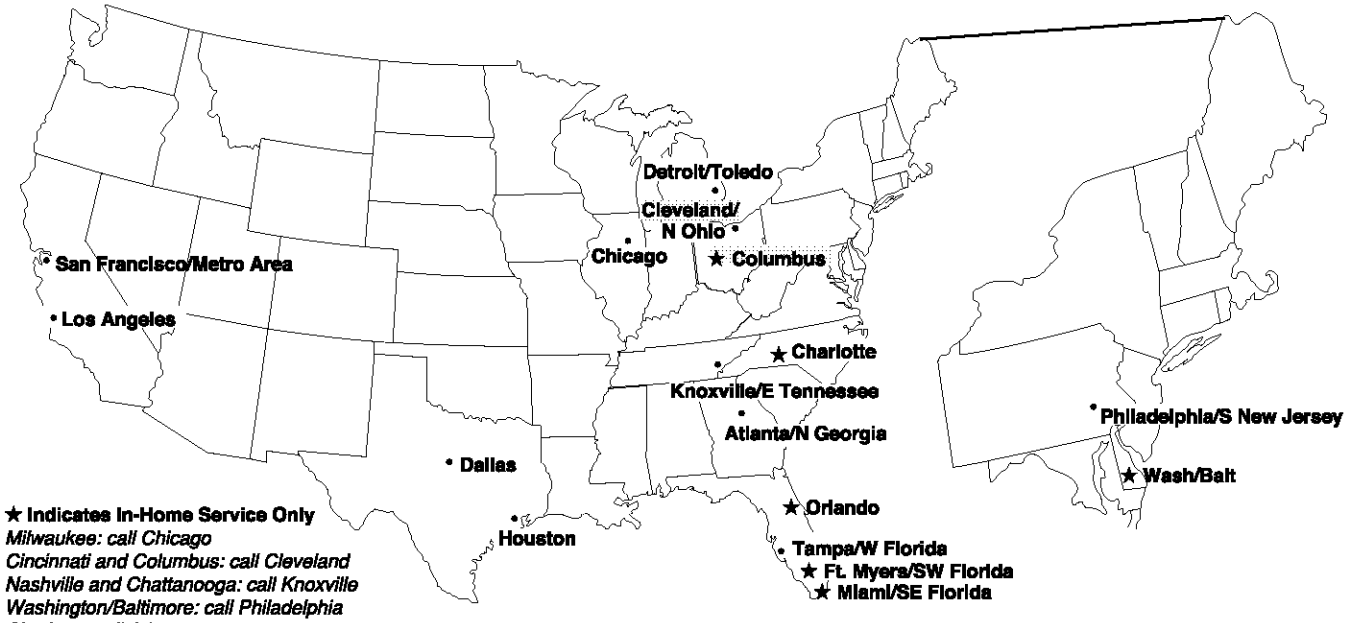
FACTORY SERVICE LOCATIONS



★ Indicates In-Home Service Only
Milwaukee: call Chicago
Cincinnati and Columbus: call Cleveland
Nashville and Chattanooga: call Knoxville
Washington/Baltimore: call Philadelphia
Charlotte: call Atlanta
All Florida locations; call Tampa

• Indicates In-Home/Carry-In Service
Toll-free numbers provided on the next page

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
Veuillez contacter philips á: 1-800-661-6162 (Francophone)
1-800-531-0039 (Anglais ou Espagnol)

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo
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, Suite 100
Tampa, FL 33619
800-442-2027

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

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

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

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

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

LOS ANGELES
Philips Factory Service
20930 Bonita, Ste. V
Carson, CA 90746
800-300-9013

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

KNOXVILLE
Philips Factory Service
One Philips Drive
Knoxville, TN 37914
800-821-1767

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

NOTES

LIMITED WARRANTY

COLOR TELEVISION

90 Days Free Labor

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

This product can be repaired in-home.

WHO IS COVERED?

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

WHAT IS COVERED?

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

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

WHAT IS EXCLUDED?

Your warranty does not cover:

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

WHERE IS SERVICE AVAILABLE?

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

MAKE SURE YOU KEEP...

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

BEFORE REQUESTING SERVICE...

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

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

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

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

FOR WARRANTY COVERAGE IN CANADA...

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

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

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

REMEMBER...

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

MODEL # _____

SERIAL # _____

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

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

Printed in U.S.A.

34" Widescreen HDTV Monitor with Double Window PIP

Highlights

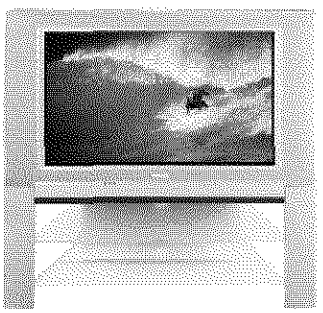
- Double Window, Two-tuner PIP
- Two HD Component inputs plus DVI (1080i/480p)
- 34" Real Flat™ invar picture tube
- Active Control™ continuously optimizes picture
- 6 Widescreen viewing modes plus Auto
- Eye Fidelity™ progressive/ interlaced line doubling
- Scan Velocity Modulation

Features

- Side stereo AV in with S-Video and headphone jack
- Rear stereo AV inputs/outputs with CVI and S-Video
- 3D digital comb filter for finest picture detail
- 20 watt audio with Virtual Dolby™ sound
- Universal remote controller

AutoFeaturePak

- AutoPicture™
- AutoSound™
- AutoMute™
- AutoLock™



Shown above with optional matching TC34PV2 stand.

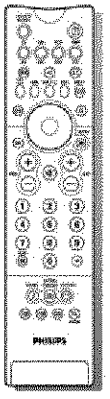
PHILIPS

34" Epic Series Television

34PW862H

Technical specifications

Picture Quality



• ***High Definition picture***
True high definition 1080i picture with 6 widescreen plus full-screen (4:3) display modes.
• ***34" Real Flat™ invar picture tube***
The flatter tube provides a wider viewing angle while minimizing reflections for the best picture possible. The special alloy invar shadow mask helps maintain tighter focus and eliminate "color blooming" as compared to standard tubes.
• ***Active Control™***
Noise and sharpness improvement settings are continuously optimized 60x second.
• ***Eye Fidelity™***
Provides the viewer the choice between progressive scan (480p) or a line doubled (1050i) picture when viewing non-HD programming.
• ***3D Y/C digital comb filter***
Separates chrominance (color) from luminance (brightness) information for independent processing to improve picture resolution and minimize distortion.
• ***Scan Velocity Modulation***
Varies the electron beam speed for a more finely rendered picture with improved sharpness.

Ease of Use

• ***Universal Remote***
Controls all TV features plus virtually all brands of VCR, DVD, Cable TV converters and Digital Broadcast Satellite receivers.
• ***AutoPicture™***
Instantly optimizes brightness, contrast, color, tint and sharpness settings with picture presets for Movies, Sports, Video games and weak signal reception.
• ***AutoSound™***
Audio volume levels are automatically adjusted and optimized with the choice of three presets: Movies, Voice, Music plus an adjustable Personal setting.
• ***AutoMute™***
Automatically activates the closed-captioning when the MUTE button is pressed.
• ***AutoLock™***
Protects young children from objectionable programming with V-chip technology.

Any-Button-On Top Controls
Channel Auto-Programming
English/Spanish/French menu
240-minute Sleep Timer
Closed Caption viewing

This television receiver provides display of television closed captioning in accordance with 15.119 of the FCC rules.

➢ **Optional TC34PV2 television stand**
Provides the ideal solution to TV and accessory placement with an emphasis on high design and safety.

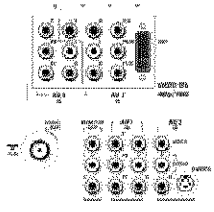
Sound Quality

• ***20 watt Stereo Sound system***
Receives stereo broadcasts for high power performance through dual speakers with exciting and lifelike sound.
• ***Virtual Dolby™ surround sound***
Creates a soundstage in front and around the viewer for more immersing home entertainment experience, utilizing the built-in speakers only.

Connectivity

• ***Digital Visual Interface (DVI)***
Removes an unnecessary analog-digital-analog conversion step to enable pure digital signal to display.
• ***Two HD Component inputs (1080i/480p)***
Easy connections for HD set-top decoders and Progressive Scan DVD players.
• ***Component Video inputs***
The best possible input for high resolution analog sources such as DVD, STB and game consoles for superb color purity, detail and reduced color noise, surpassing even S-Video.
• ***S-Video input (Side & Rear)***
The ideal way to connect high resolution picture sources like DVD, Digital Satellite & Cable TV and video games consoles for even better detail than standard Video inputs.
• ***Rear stereo AV inputs and outputs***
Connect a VCR, DVD, Satellite and video game through S-Video or stereo AV connection. Audio/video output jacks make adding a home theatre surround sound even easier!
• ***Side stereo AV in + headphone jack***
Digital cameras and video games can be connected quickly and easily to S-Video or stereo AV inputs. Connect your headphones (optional) for convenient private listening.

Side AV + Headphone Inputs/Outputs



Rear AV

UPC:	0 37849 93572 9
Product Dimensions:	36.5"W x 25"H x 23"D
Product Weight:	166 lbs.
Carton Dimensions:	41.5"W x 30"H x 30"D
Carton Weight:	196 lbs.
Carton contains:	Universal Remote Control w/ batteries, operating instructions, warranty information

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Let's make things better.

Color TV

Quick Use and Hookup Guide

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IMPORTANT

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

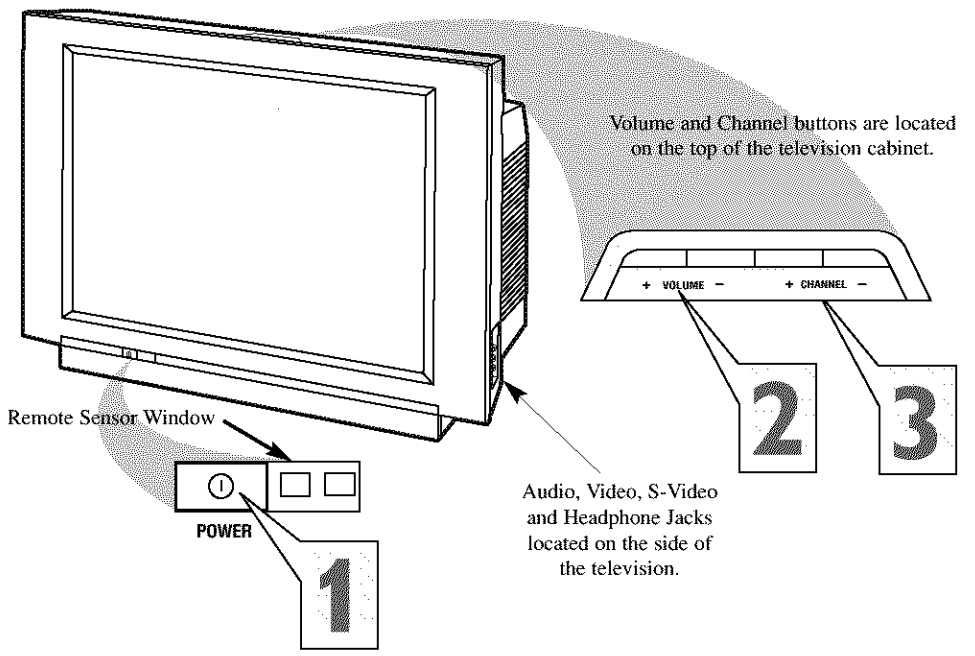
WARNING: TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THIS UNIT TO RAIN OR EXCESSIVE MOISTURE.

Basic TV Operation

Your television has a set of controls located on the top and front of the cabinet for use when the remote control is not needed.

1. **Press the POWER button** on the front of the TV cabinet to turn the TV ON.
   Note: With AutoChron ON, the TV will search for a PBS channel to set the clock before powering itself on. This can take several seconds.
2. **Press the VOLUME + button** to increase the sound level **or the VOLUME – button** to lower the sound level.
   Pressing both buttons at the same time will display the onscreen menu. After you are in the menu, use these buttons to make adjustments or selections.
3. **Press the CHANNEL + or – button** to select TV channels. Use these buttons to make adjustments or selections in the onscreen menu.

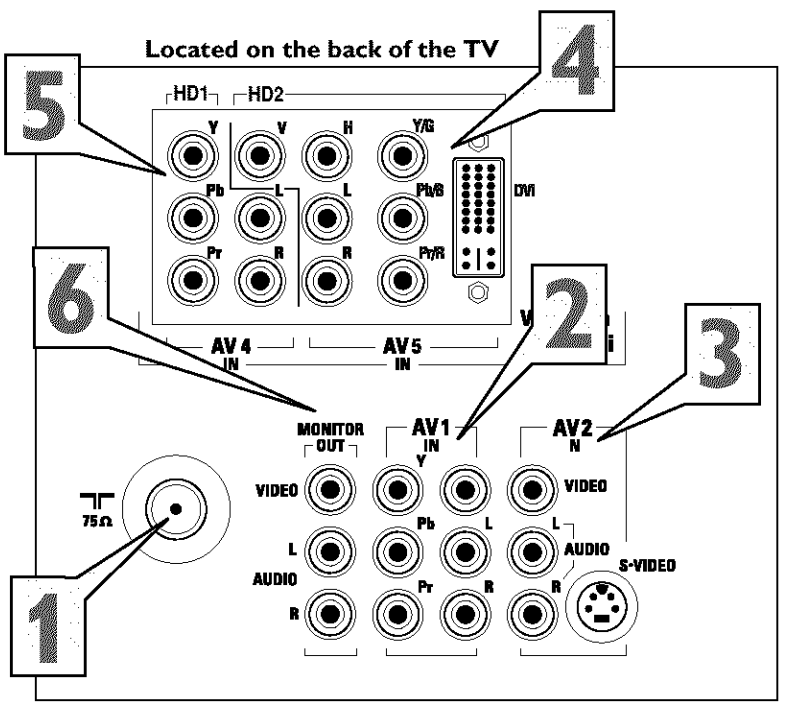
There is also a set of Audio and Video Input jacks located on the side of the television cabinet. Refer to the Side AV3 Input section on page 6 of this *Quick Use and Hookup Guide*.

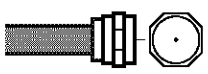


Jack Panel Descriptions and Required Cables

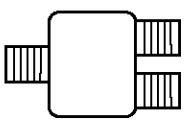
The television is equipped with external input and output jacks for use with optional accessory devices such as Home entertainment Receivers, VCRs, DVD Player, Gaming Units, Video Cameras, etc.

1. **75Ω RF -** Cable/Antenna Input connection jack.
2. **AV 1 IN -** Audio/Video connection jacks including Component Video Inputs.
3. **AV 2 IN -** Audio/Video Input connection jacks including S-Video connections.
4. **AV 5 IN -** High Definition 1080i or 480p Video, DVI (Digital Video Input), Audio Inputs, Horizontal and Vertical Sync connection jacks.
5. **AV 4 IN -** High Definition 1080i or 480p Video and Audio Input connection jacks.
6. **Monitor Out -** Audio/Video Output connection jacks (TV tuner signal only).
7. **SIDE (AV 3) -** Audio/Video Input jacks include a S-Video jack, plus a Headphone jack located on the side of the cabinet.

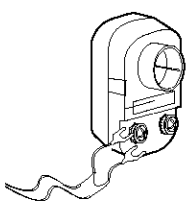




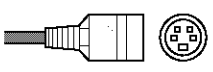
A 75-ohm **coaxial cable** connects signals from an antenna or a cable TV company to the antenna jack on the back of the TV. Coaxial cables use "F" connectors.



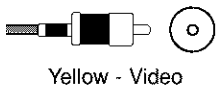
A **two-way signal splitter** enables you to take a single antenna or cable TV signal and supply it to two different inputs.



A **300- to 75-ohm twin-lead adapter** accepts the antenna cables (called twin-lead wires) from an antenna, allowing you to connect the antenna signal to the TV.

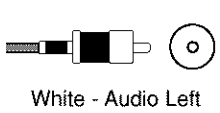


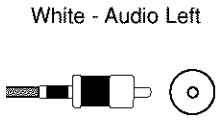
A **S-Video cable** provides better picture performance than regular (composite) video connections.
S-Video cables can be used only with S-Video-compatible accessory devices. You must also connect the left and right audio cables to the AV 2 Audio in jacks because the S-Video jack carries only the picture signal, not the sound.

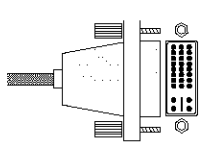


Video and audio cables with standard RCA (phono) connectors connect the video and audio jacks of accessory devices such as VCRs and DVD players to the jacks on the TV.

These connectors are usually color coded. The jacks on your TV are also color coded to match the colors of the connectors. Yellow for video (composite) and Red and White for the right and left audio channels. The video cables used to connect component video or RGB (high-resolution) jacks are color coded red, green, and blue.







A **DVI (Digital Video) cable** that will support digital connection from a PC. Only Single Digital Link DVI is supported for PCs with 480p or 1080i output.

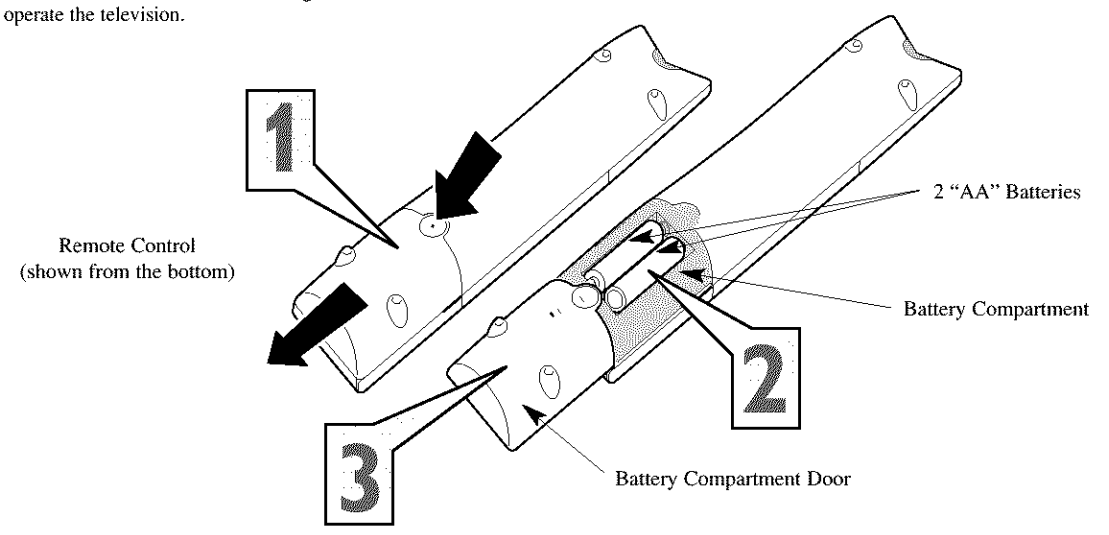
Basic Remote Control Operation

Remote Control Batteries

To load the supplied batteries into the remote:

1. **Remove the battery compartment door** on the back of the remote.
2. **Place the batteries (2-AA) in the remote.** Be sure the (+) and (–) ends of the batteries line up correctly (the inside of the case is marked).
3. **Reattach the battery compartment door.**

Be sure to point the remote at the Remote Sensor window on the front of the television when using the remote control to operate the television.



Remote Control Buttons

VCR control buttons - Press to pause, rewind, stop, play, or fast forward a videotape.

TV • VCR • ACC - (Mode buttons) Press to send remote signals to either the TV, VCRs, or other accessory devices such as cable TV converters, satellite receivers, DVDs, or laser disc players. (You may need to program the remote to work accessory devices. Refer the *Directions for Use* manual.

PIP buttons: SWAP, PIP CH DN/UP, FREEZE - Press to operate the Picture-in-Picture (PIP) features.

Sound - Press to select an AutoSound™ control. Choose from three factory-set controls—Voice, Music, and Theatre—and a Personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls will tailor the TV sound so as to enhance the type of program you are watching.

Status/Exit - Pressing the button once 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.

Cursor Ring - Up/Down: allows you to select the next or previous menu item in the menu. Left/Right: allows you to access the submenus and adjust the settings. When no onscreen displays or menus are present, use the Cursor Ring Left/Right to select a picture format for a video source connected to the ANTENNA, AV1, CVI, AV2, or AV3 (side panel inputs) on the TV.

Volume (+/–) - Press to adjust the TV sound level.

Number Buttons - Press to select TV channels. When selecting single-digit channels, press the number of the desired channel. The TV will pause for a few seconds and then tune to the selected channel.

TV/VCR - Press while in VCR mode to view the playback of a videotape. Press again to return to TV mode.

A/CH - When in the TV mode, press to alternate between the currently viewed channel and the previously viewed channel.

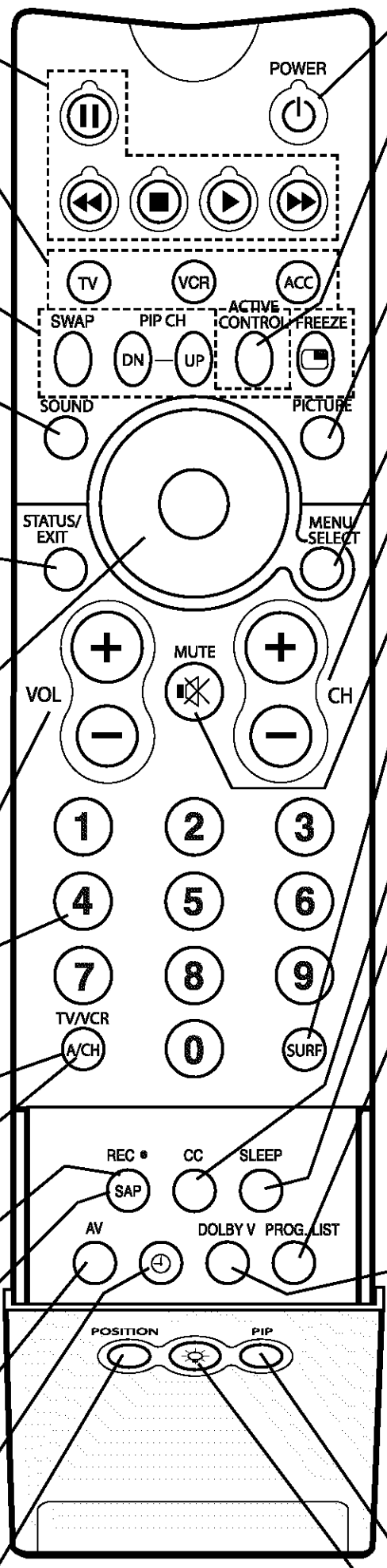
Rec ● - Press this button simultaneously with the ► button when in VCR mode to record.

SAP - When in the TV mode, press to select between main sound and SAP (Second Audio Program) when you tune to a program offering SAP.

AV - Press repeatedly to select the different signal sources connected to the TV: TV (current channel), AV1, CVI, AV2, AV3 (side jack panel), AV4 and AV5.

Clock - Press to access the onscreen Timer menu, where you can set the time for the TV's clock or set the TV's Timer features, such as channel switch over, power on set, and power off set.

Position - Press to move the PIP picture to any of the four corners of the screen.



Power - Press to turn the TV on or off.

Active Control™ - Measures and corrects all incoming signals to provide the best picture-quality settings. Press to turn Active Control™ on or off. When Active Control™ is on, it automatically and continuously controls Sharpness and Noise Reduction settings.

Picture - Press to select an AutoPicture™ control. Choose from four factory-set controls—Movies, Sports, Weak Signal, and Multimedia—and a PERSONAL control that you set according to your own preferences through the onscreen Picture menu.

Menu/Select - Press to display the onscreen menu. Press to return to a higher menu level.

Channel (+/–) - Press to select channels in ascending or descending order or cycle through the signal inputs.

Mute - Press to turn the TV sound off. To restore the sound to its previous level, press the button again.

Surf - Press to select previously entered channels. With the TV's AutoSurf™ control, you can place up to 10 favorite channels or sources in memory. Then by pressing the Surf button, you can quickly view the selected channels.

CC Button - Press to select Closed Captioning options within the menu.

Sleep - Press to set the TV to automatically turn itself off after a period of time. Choose 15, 30, 45, 60, 90, 120, 180, or 240 minutes before the TV will automatically turn off.

Program List - Press to display a list of channel numbers and their names. Each channel will appear as a selectable menu item. The current channel will be highlighted as default. Five channels will be listed on screen at one time. Press the Cursor Ring up or down to scroll the list and and highlight a channel. 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. Each channel that is being blocked by AutoLock™ will appear with a padlock icon to indicate that the channel is not viewable.

Dolby V - Press to select various factory surround sound listening modes.

Dolby* Virtual (Virtual Dolby Surround) (with Virtual Dolby Surround signals) - Dolby Virtual uses two speakers to simulate the surround effect produced by a multichannel system.

Incredible Surround™ - In **Stereo** sound mode—when Incredible Surround™ is turned on—it seems as though the loudspeakers are spread farther apart from each another. In **Mono** sound mode—when Incredible Surround™ is turned on—enables you to hear a spatial sound effect.

PIP - Press to turn PIP (picture-in-picture) on or off or control the size of the PIP window.

Back Light button - Press to light the buttons on the remote control.

Hooking Up the Television

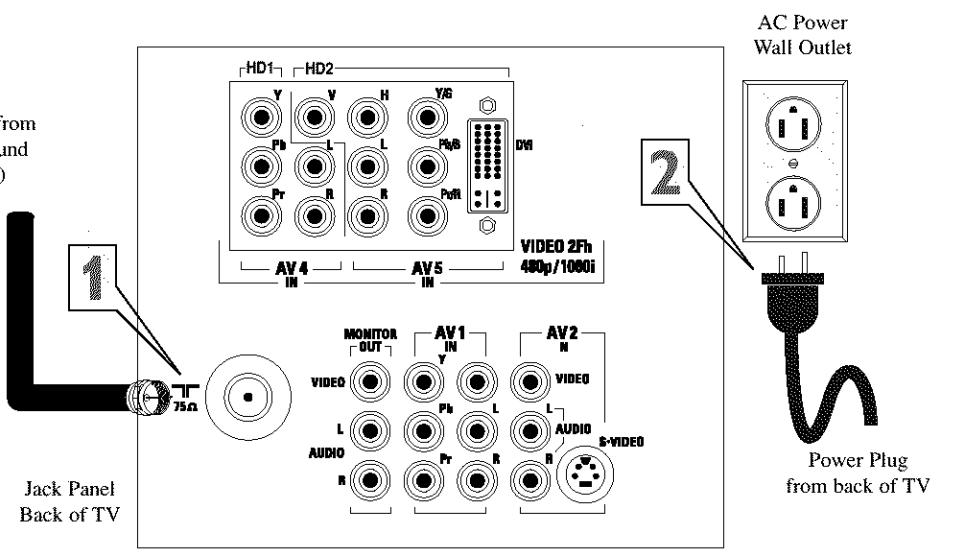
Direct Cable TV Input

Your Cable TV input into your home may be a single (75 ohm) cable or a converter box installation. In either case, the connection to the TV is very easy. Follow the steps below to connect your cable signal to your new television.

If your cable signal comes directly from a round 75Ω coaxial cable use the following steps:

1. **Connect the open end of the round Cable Company supplied cable** to the 75Ω input on the TV. Screw it down finger tight.
2. **Plug the television into the wall outlet** and turn the TV on. Refer to the AUTOPROGRAM feature to program all the available channels on your cable signal.

Direct Cable Connection:

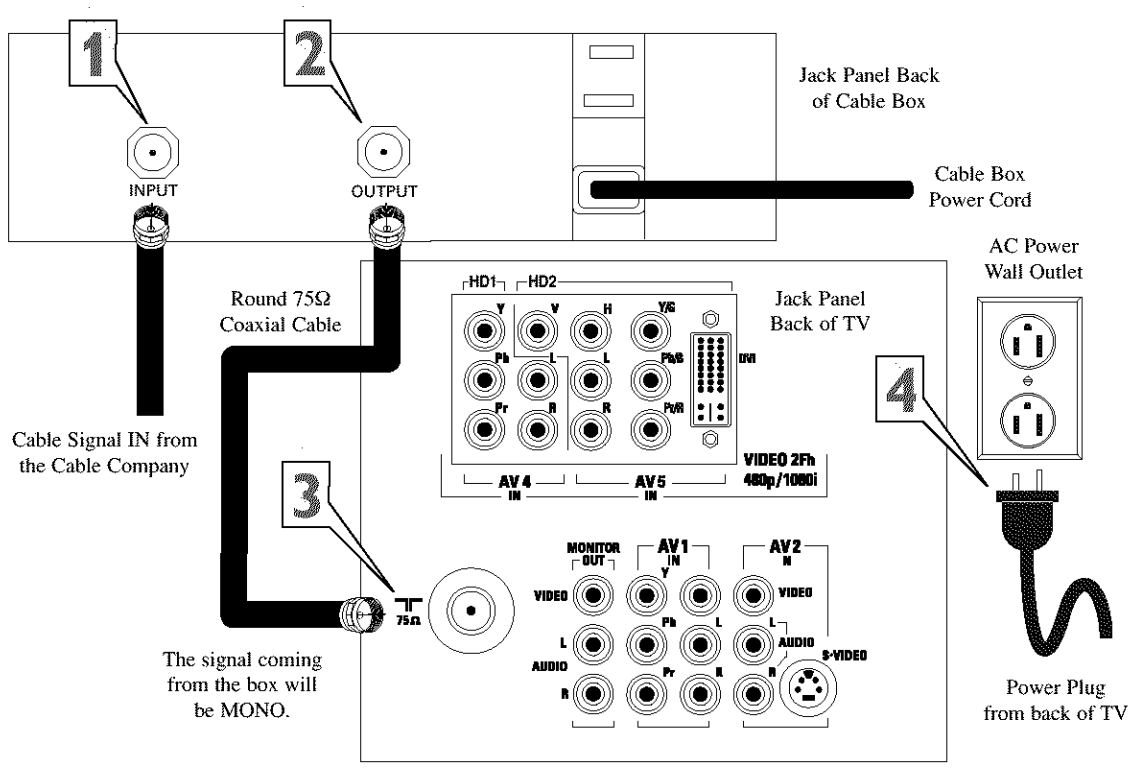


Cable TV Box Input

If your cable signal comes from a cable box, use the following steps: (This connection will be mono. Some Cable boxes use Left and Right channel audio output jacks for stereo connections. This type of Cable Box can be connected to the AV1 or AV2 Audio Left and Right Audio Inputs. Please refer to your Cable Box instructions.)

1. **Connect the open end of the round Cable Company supplied cable** to the cable signal IN(put) plug on the back of the Cable Box.
2. Using a separate round coaxial cable, **connect one end to the OUT(put) plug on the back of the Cable Box.**
3. **Connect the other end of the round coaxial cable** to the 75Ω input on the back of the television. Screw it down finger tight.
4. **Plug the television into the wall outlet** and turn the TV on. Refer to the TUNER and AUTOPROGRAM features on page 4 of this Quick Use Guide. TUNER should be set to the CABLE option. AUTOPROGRAM can be set to program all the available channels on your cable signal into the television's memory.

Cable Box Connection:

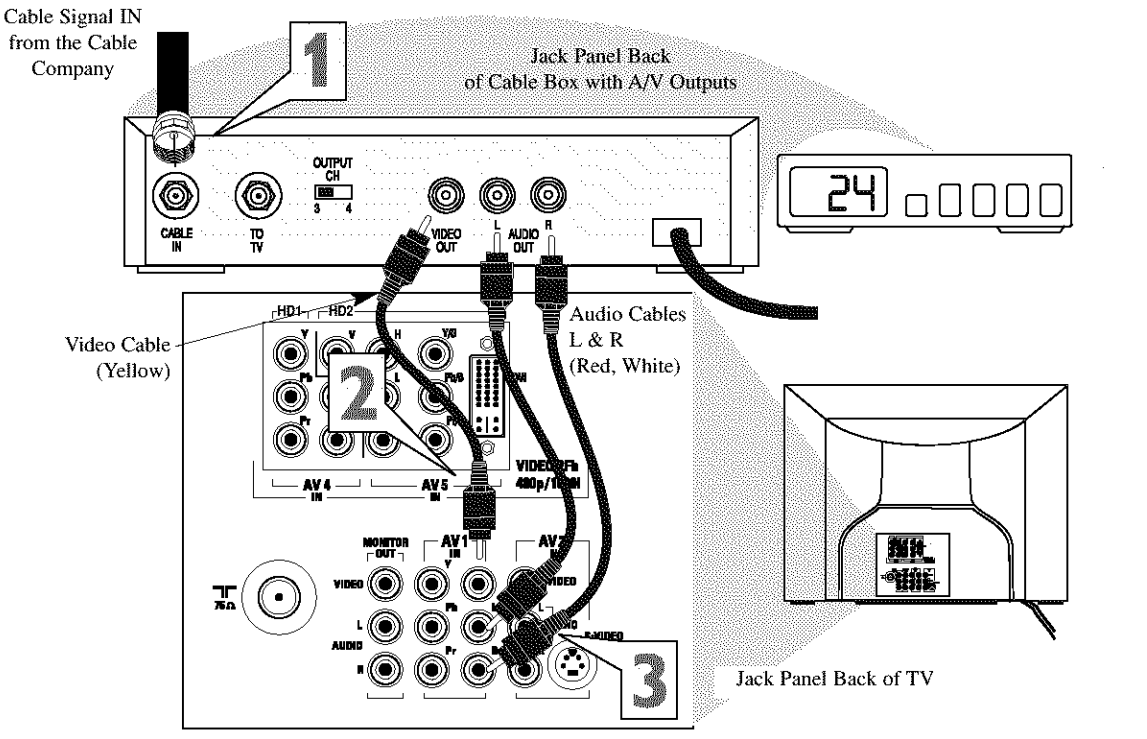


Cable TV Box with A/V Inputs

This connection will supply Stereo sound to the TV.

1. **Connect the open end of the round Cable Company supplied cable** to the cable signal IN(put) plug on the back of the Cable Box.
2. Using a RCA type Video Cable, **connect one end of the cable to the Video** (or ANT, your cable box may be labeled differently) **Out jack** on the cable box and the other end to the AV1 Video Input on the TV.
3. Using a RCA type Audio Left and Right Cable, **connect one end to the left and right Audio Out L & R jacks on the cable box.** Connect the other end to the AV1 Audio L & R Input jacks on the TV.

NOTE: Use the AV button on the TV remote control to tune to the AV1 channel for the cable box signal. Once tuned, change channels at the cable box, not the television. Pressing the AV button repeatedly will scroll all the AV Input channels, including the presently tuned channel.

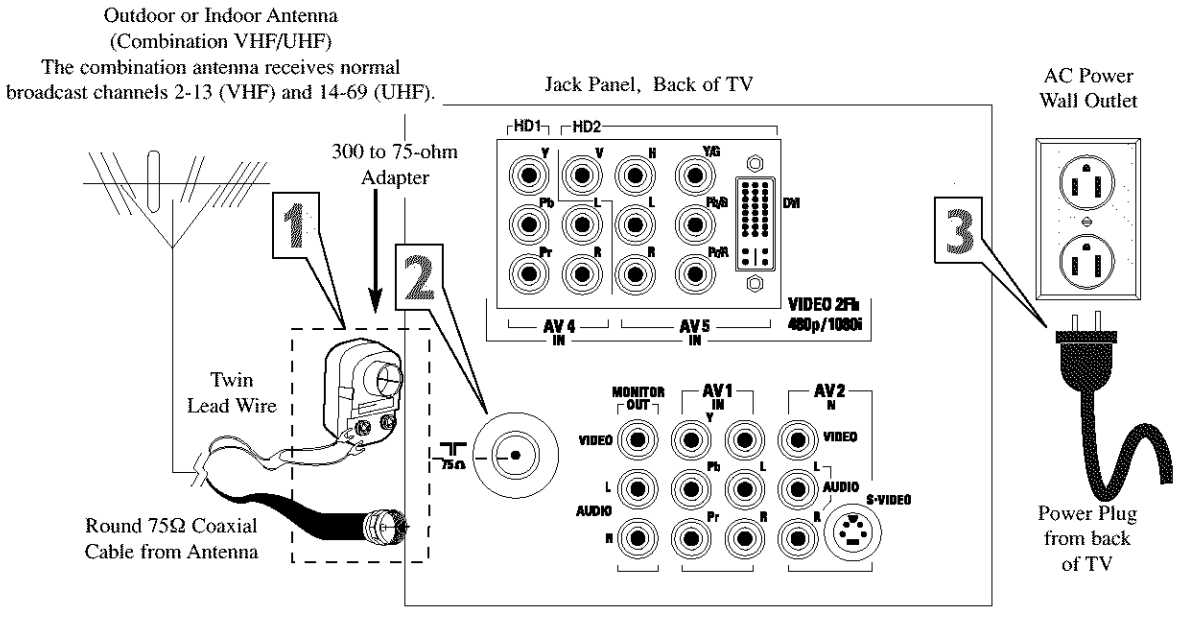


Antenna TV

A combination antenna receives normal broadcast channels (VHF 2–13 and UHF 14–69). Your connection is easy because there is only one 75Ω (ohm) antenna plug on the back of your TV, and that's where the antenna goes.

1. **If your antenna has a round cable** (75 ohm) on the end, then you're ready to connect it to the TV.
   If your antenna has flat, twin-lead wire (300 ohm), you first need to attach the antenna wires to the screws on a 300- to 75-ohm adapter.
2. **Push the round end** of the adapter (or antenna) onto the 75Ω (ohm) plug on the back of the TV. If the round end of the antenna wire is threaded, screw it down finger tight.
3. **Plug the television into the wall outlet** and turn the TV on. Refer to the TUNER and AUTOPROGRAM features on page 4 of this Quick Use Guide. TUNER should be set to the ANTENNA option. AUTOPROGRAM can be set to program all the available channels on your cable signal into the television's memory.

Antenna Connection:

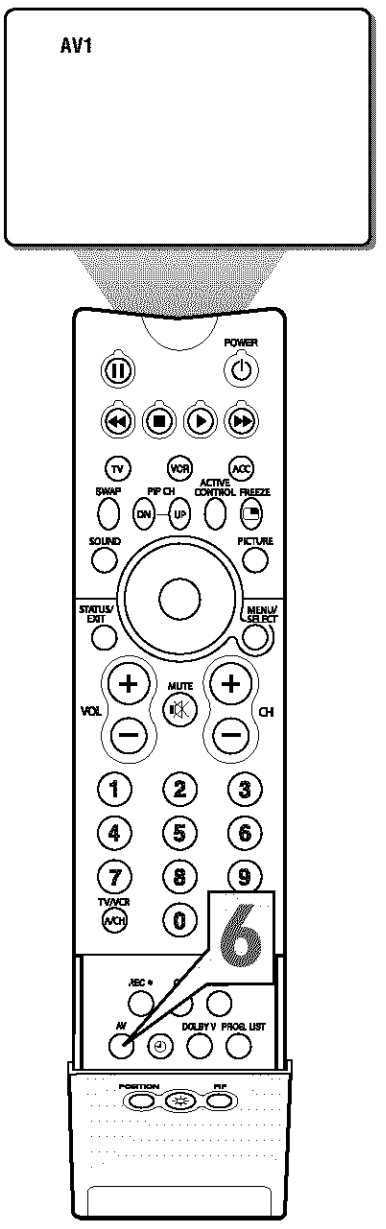


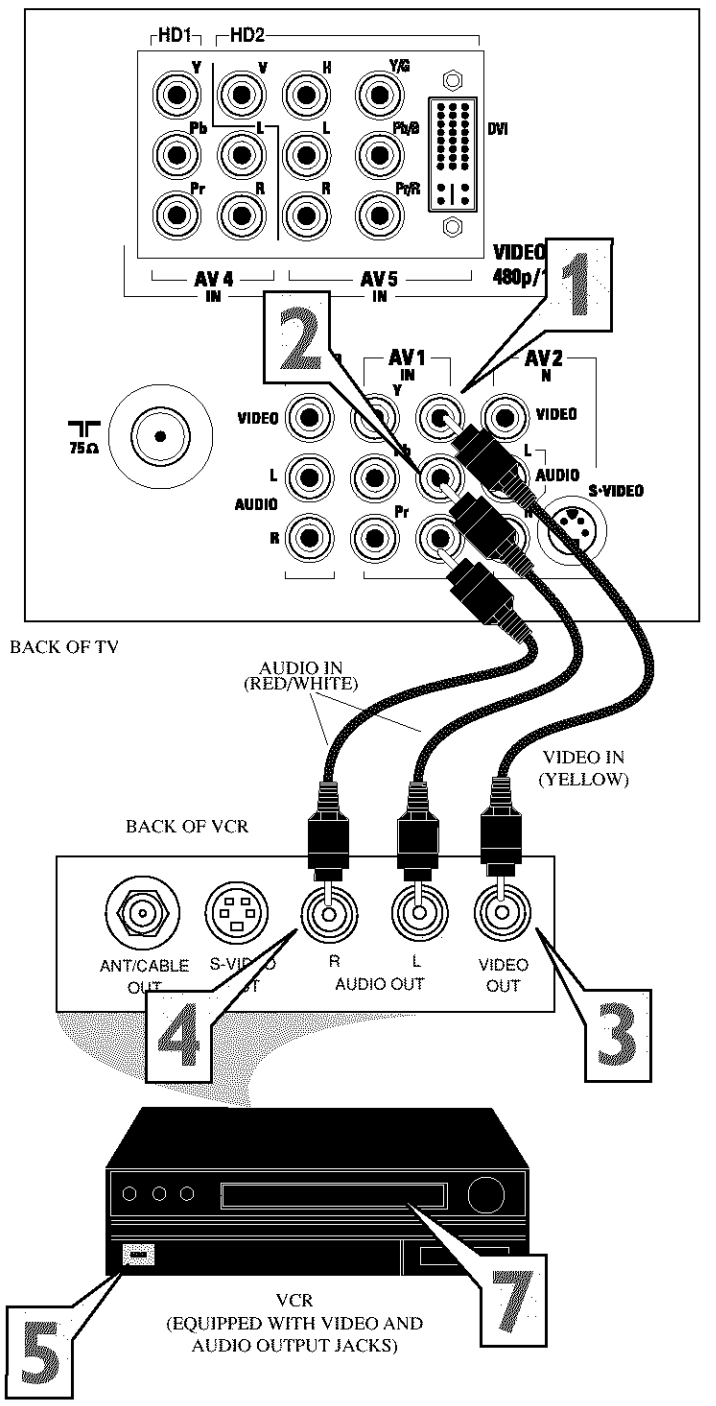
HOOKING UP THE TELEVISION

USING THE AV 1 INPUT JACKS

The TV's audio/video input jacks are for direct picture and sound connections between the TV and a VCR (or similar device) that has audio/video output jacks. Follow the easy steps below to connect your accessory device to the AV 1 Input Jacks located on the back of the TV.

1. **Connect the VIDEO (yellow) cable** to the VIDEO AV1 IN jack on the back of the TV.
2. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) AV1 IN jacks on the rear of the TV.
3. **Connect the VIDEO (yellow) cable** to the VIDEO OUT jack on the back of the VCR.
4. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) OUT jacks on the rear of the VCR.
5. **Turn the VCR (accessory device) and the TV ON.**
6. **Press the AV button** on the remote control to tune the AV1 channel.
7. **Insert a prerecorded tape** (or CD, DVD, depending on the type of accessory device being used) and, **press the PLAY button** on the accessory device to view the playback.

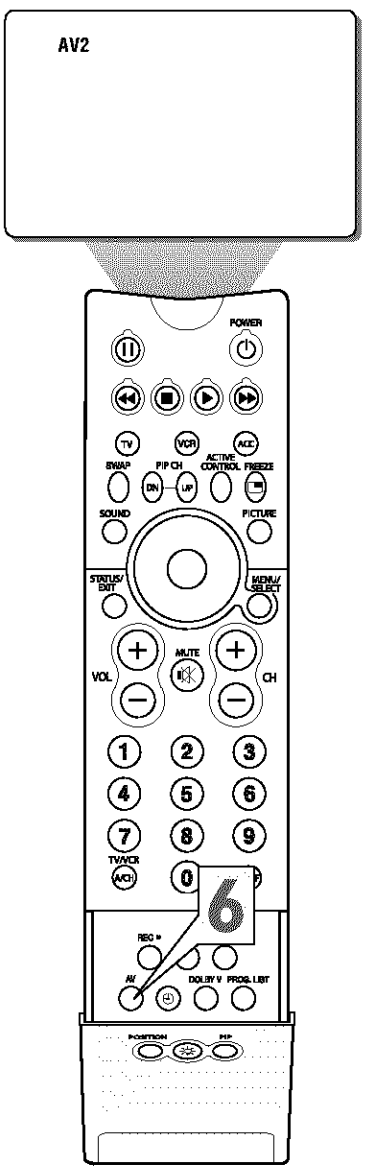


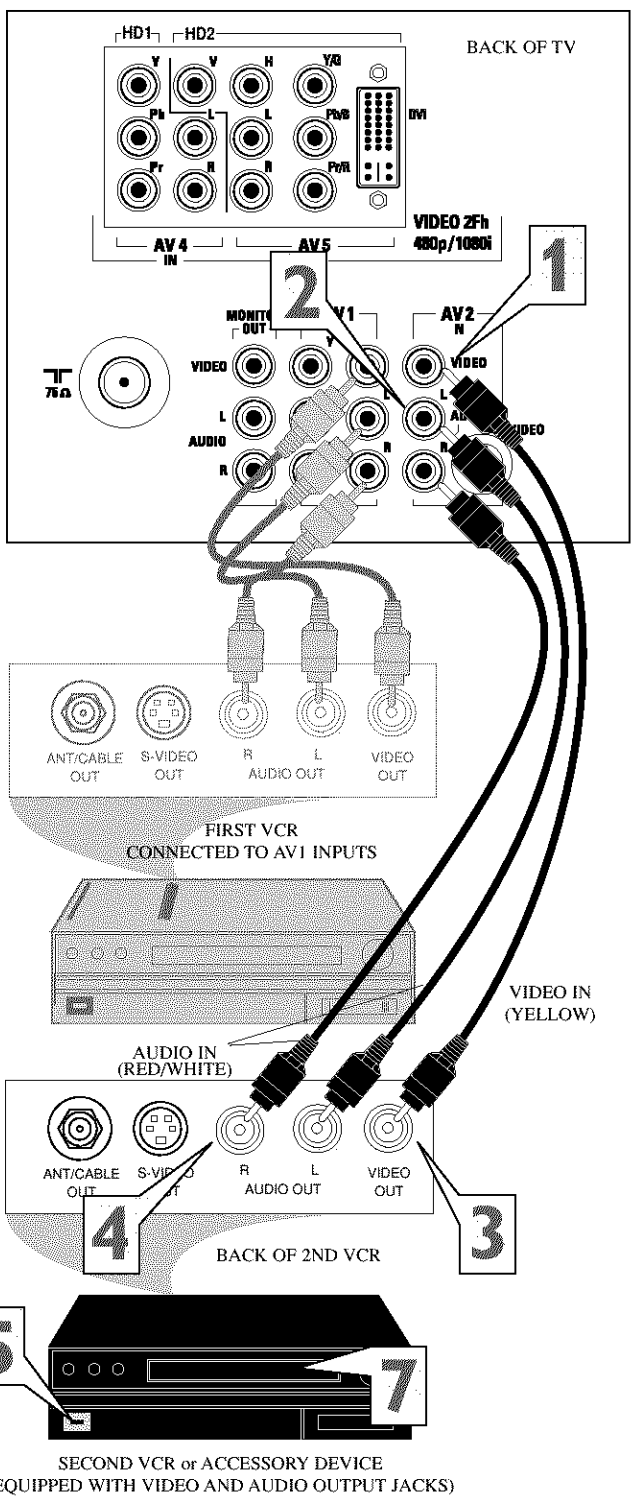


USING THE AV 2 INPUT JACKS

The TV's audio/video input jacks allow you connect multiple accessory devices at one time to different sets of input jacks.. Follow the easy steps below to connect an additional accessory device to the AV 2 Input Jacks located on the back of the TV.

1. **Connect the VIDEO (yellow) cable** to the VIDEO AV2 IN jack on the back of the TV.
2. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) AV2 IN jacks on the rear of the TV.
3. **Connect the VIDEO (yellow) cable** to the VIDEO OUT jack on the back of the VCR.
4. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) OUT jacks on the rear of the VCR.
5. **Turn the VCR (accessory device) and the TV ON.**
6. **Press the AV button** on the remote control to tune to the AV2 channel.
7. **Insert a prerecorded tape** (or CD, DVD, depending on the type of accessory device being used) and, **press the PLAY button** on the accessory device to view the playback.





HOOKING UP THE TELEVISION

USING THE AV 5 INPUT JACKS

The AV5 Input Jacks provide High Definition Video Inputs at 1080i or 480p, for accessories like a HD Receiver and Digital DVD Players. There is also a DVI jack supplied allowing encrypted transmission of uncompressed HD content. .

1. **Connect the Component (Y, Pb, Pr) Video OUT** jacks from the HD accessory device to the (Y, Pb, Pr) AV5 IN(put) jacks on the TV. If the device your using is equipped with separate Horizontal and Vertical sync, connect the H and V Outputs on the accessory device to the H and V Inputs of AV5 IN.

2. **Connect the red and white AUDIO CABLES** to the Audio (left and right) output jacks on the rear of the HD accessory device to the Audio (L and R) AV5 IN(put) jacks on the TV.

3. **Connect a DVI cable** from the DVI OUT on the HD accessory device to the AV5 DVI jack on the back of the TV.

4. **Connect a 75Ω round cable** from the OUT TO TV jack on the HD accessory device to the 75Ω IN on the back of the TV.

5. If using a Satellite Dish, Cable signal or Antenna signal, **connect the 75Ω round cable** from a Satellite Dish to the SATELLITE IN and/or the Cable and Antenna signals to the ANTENNA "A" or "B" IN on the back of the HD accessory device.

6. **Press the AV button** on the remote control repeatedly to tune to the AV5 channel.

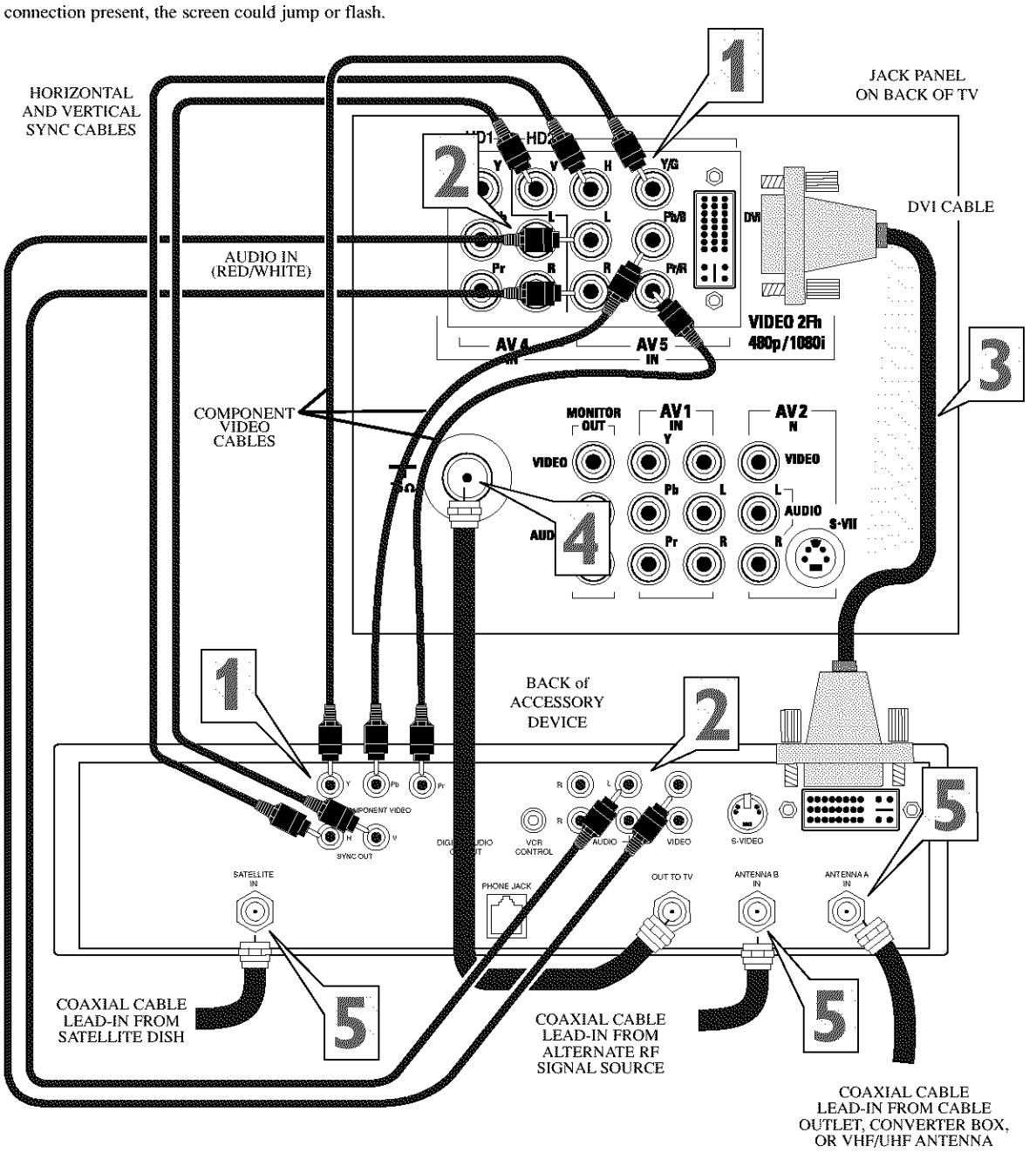
Your now ready to use your digital device to begin playback of high definition quality.

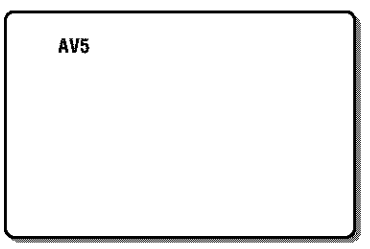
NOTE: This television is designed to accept high definition signals 1080i and 480p as specified by the Electronic Industries Association standard EIA770.3. Digital devices from different manufacturers have the possibility of differing output standards which my cause difficulties for the television to properly display.

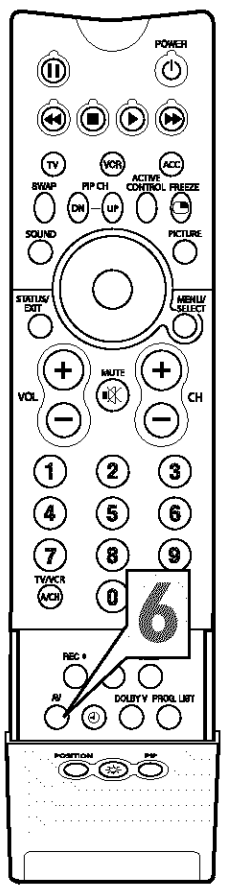
☑ CHECK IT OUT

DVI - DVI is a specific digital input allowing encrypted transmission of uncompressed HD content. DVI includes HDCP (high-bandwidth digital content protection), which is supported by Hollywood, satellite providers, and most of the consumer electronics industry. DVI is gaining momentum and quickly becoming an industry standard for the consumer to view high-definition material while keeping content protected.
NOTE: The Picture-in-Picture (PIP) feature is not available for use with AV5.

Note: If the AV5 channel is tuned and no signal connection present, the screen could jump or flash.







HOOKING UP THE TELEVISION

USING THE AV 4 INPUT JACKS

The AV4 Input Jacks provide High Definition Video Inputs at 1080i or 480p, for accessories like a HD Receiver and Digital DVD Players. Using the color difference signals (Pb, Pr) and the luminance (Y) signal will improve color bandwidth information.

1 **Connect the Component (Y, Pb, Pr) Video OUT** jacks from the DVD player (or similar device) to the (Y, Pb, Pr) AV4 IN(put) jacks on the TV.

2 **Connect the red and white AUDIO CABLES** to the AUDIO (left and right) OUT(put) jacks on the rear of the accessory device to the Audio (L and R) AV4 IN(put) jacks on the TV.

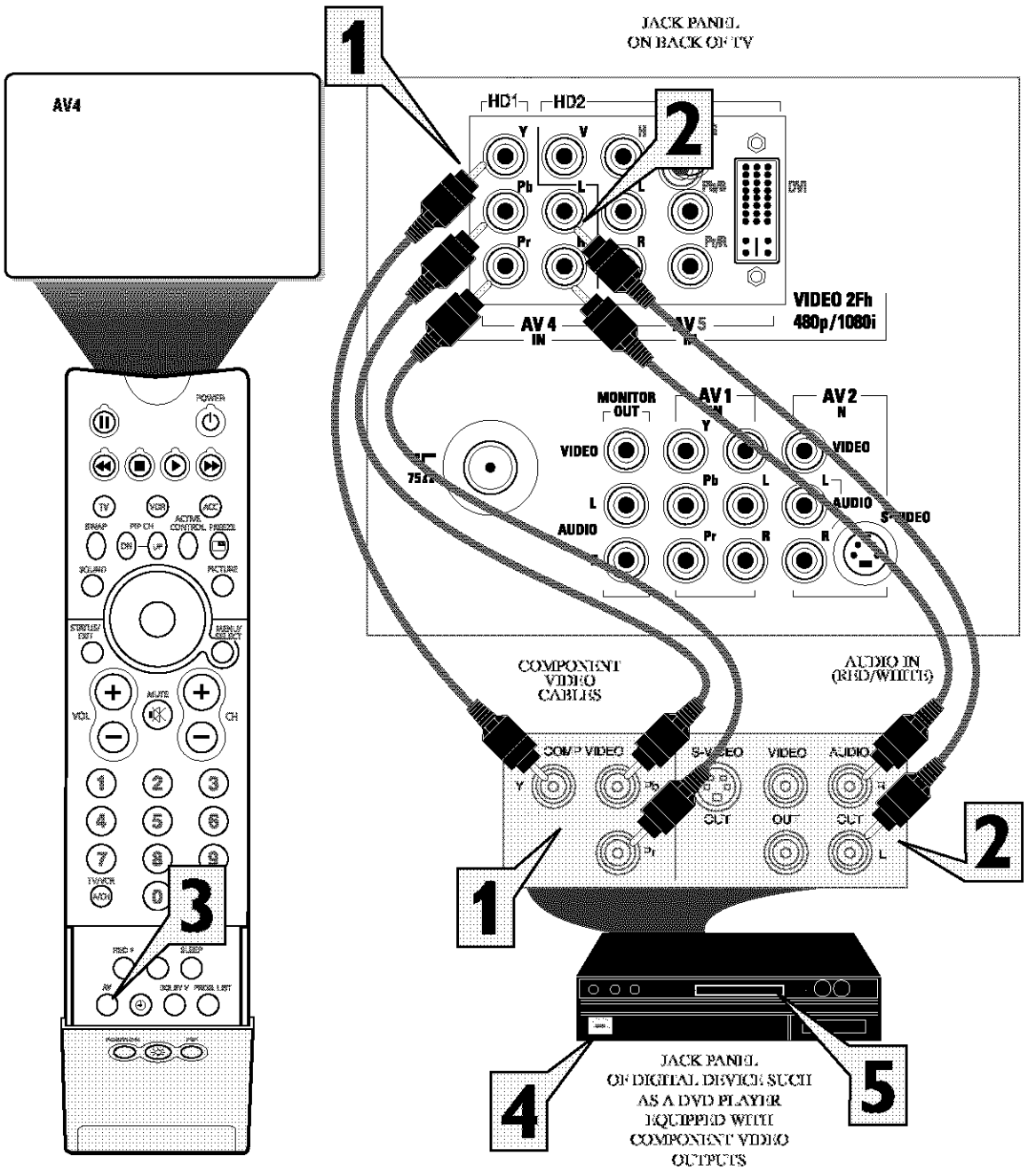
3 **Press the AV button** on the remote control repeatedly to tune to the AV4 channel.

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

5 **Press the PLAY button** on the DVD (or digital accessory device) to view the program on the television.

NOTE: This television is designed to accept high definition signals 1080i and 480p as specified by the Electronic Industries Association standard EIA770.3. Digital devices from different manufacturers have the possibility of differing output standards which my cause difficulties for the television to properly display.

Note: If the AV4 channel is tuned and no signal connection present, the screen could jump or flash.



USING THE SIDE AV 3 INPUT JACKS

This television has input jacks conveniently located on the side of the cabinet. These jack are for easy hook-ups (without having to move around to the back of the TV) for cameras, gaming units, and other accessory devices that wouldn't be connected permanently. Follow the easy steps below to connect your accessory device to the SIDE Input Jacks located on the right side of the TV.

1 **Connect the VIDEO (yellow) cable** to the VIDEO IN jack on the side of the TV.

2 **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) IN jacks on the side of the TV.

3 **Connect the VIDEO (yellow) cable** to the VIDEO OUT jack on the back of the camera (or accessory device).

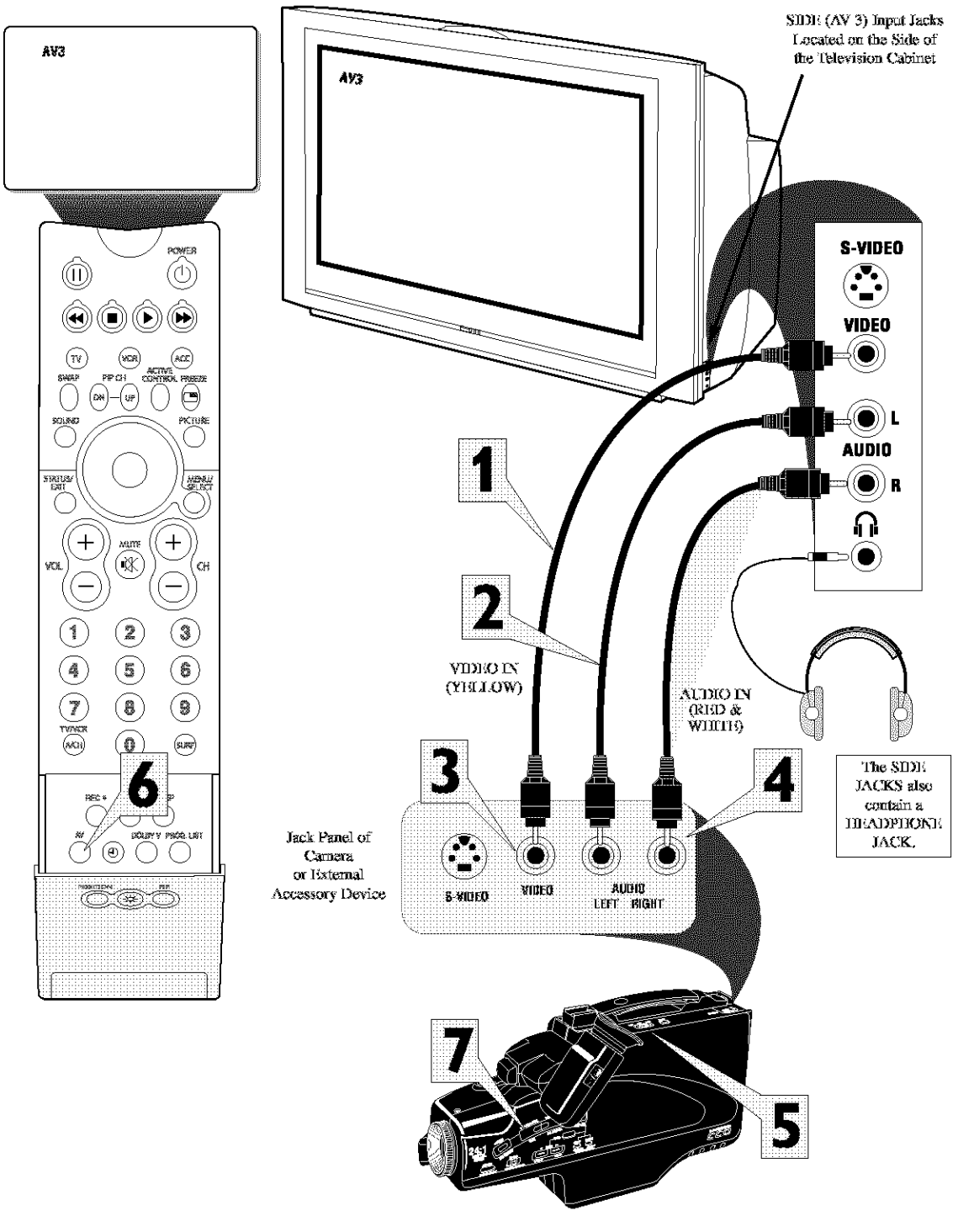
4 **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) OUT jacks on the rear of the camera (or accessory device).

5 **Turn the camera (or accessory device) and the TV ON.**

6 **Press the AV button** on the remote control repeatedly to tune to the AV3 channel.

7 With the camera (or accessory device) ON and a prerecorded tape (or other media depending on type of accessory device being used) inserted, **press the PLAY button** to view the tape on the television.

NOTE: The S-Video Cable can be used in place of the Yellow Video cable shown in this diagram. If your camera or accessory device has a S-Video output jack, connecting the video signal through the S-Video jack will reproduce the video signal with greater quality.



HOOKING UP THE TELEVISION

COMPONENT VIDEO INPUT (CVI)

If using an accessory device that is not high definition but uses Component Video jacks. The AV1 jacks on the TV offer the user the possibility of better video reproduction using the Component Video Inputs. The color difference signals (Pb, Pr) and the luminance (Y) signal are connected and received separately, which allows for improved color bandwidth information (not possible when using composite video or S-Video connections).

1 **Connect the Component (Y, Pb, Pr) Video OUT** jacks from the DVD player (or similar device) to the (Y, Pb, Pr) IN(put) jacks on the TV. When using the Component Video Inputs, it is best not to connect a signal to the AV1 Video Input.

2 **Connect the yellow VIDEO CABLE along with the red and white AUDIO CABLES** to the AUDIO (left and right) OUT(put) jacks on the rear of the accessory device to the AV1 VIDEO and AUDIO IN(put) jacks on the TV.

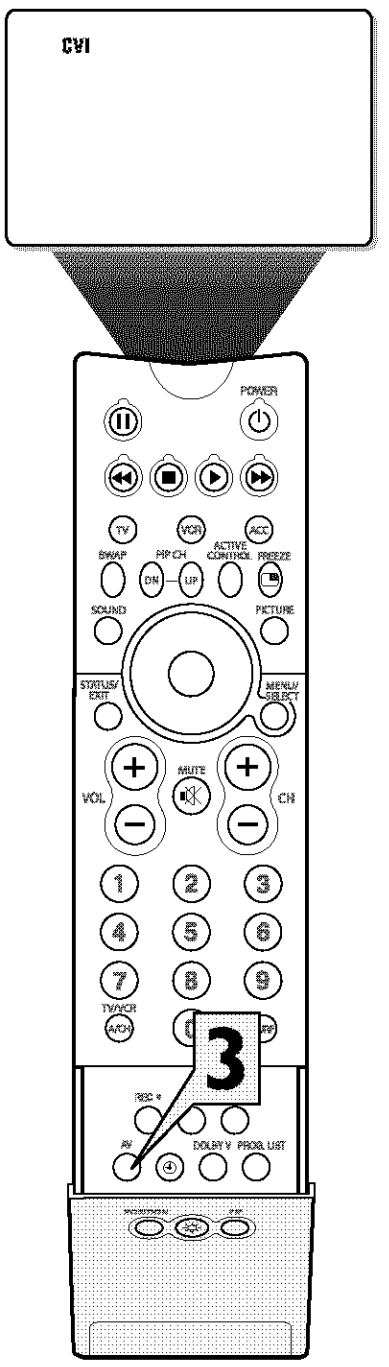
3 **Press the AV button** on the remote control repeatedly to tune to the CVI channel.

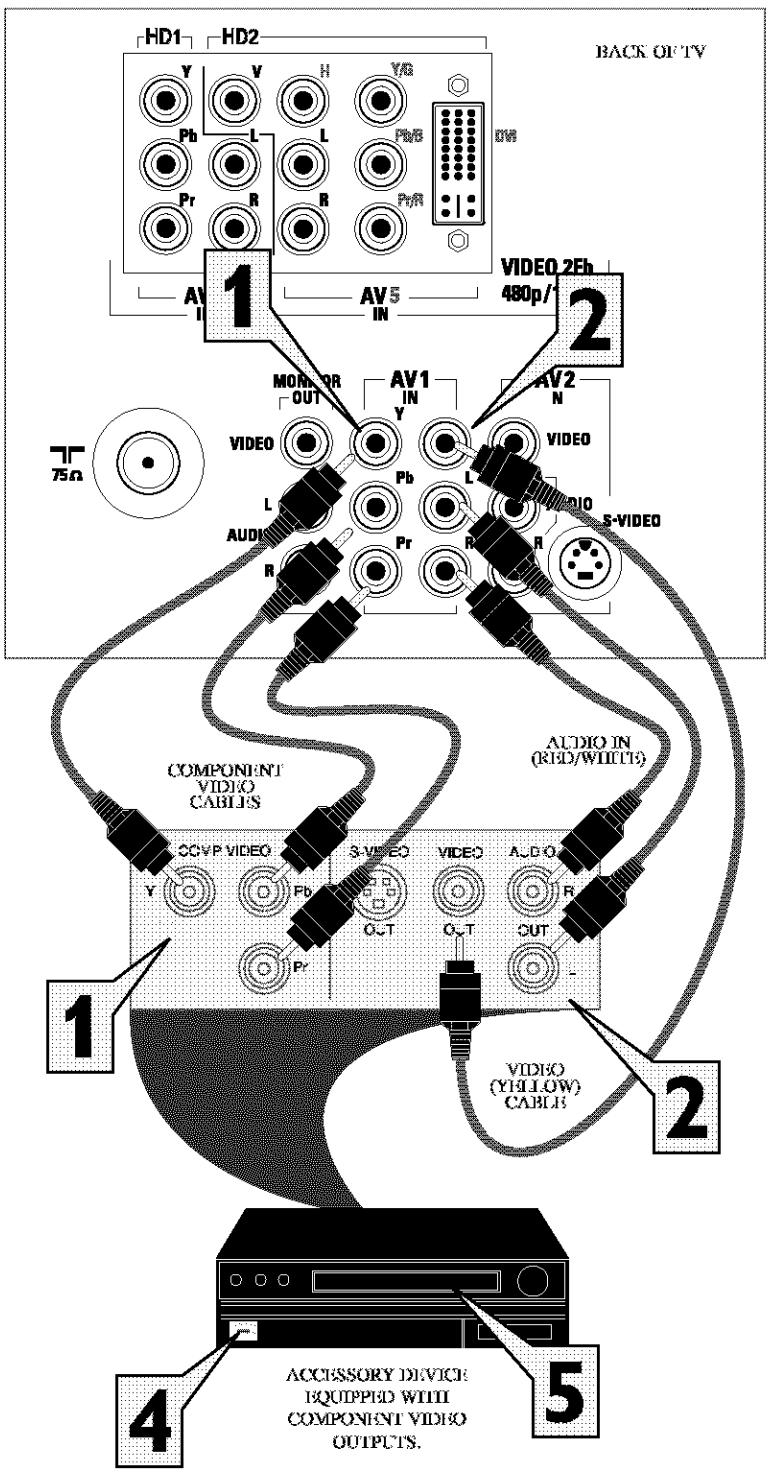
4 **Turn the TV and the DVD (or digital accessory device) ON.**

5 Insert a DVD disc into the DVD player and **press the PLAY ▶ button on the DVD Player (or digital accessory device).**

HELPFUL HINT

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





S-VIDEO INPUT

The S(uper)-Video connection on the rear of the TV can provide you with better picture detail and clarity for the playback of accessory sources such as DBS (digital broadcast satellite), DVD (digital video discs), video games, and S-VHS VCR (video cassette recorder) tapes than the normal antenna picture connections.

***NOTE:** The accessory device must have an S-VIDEO OUT(put) jack in order for you to complete the connection on this page.*

1 **Connect the S-VIDEO CABLE** to the S-VIDEO input jack on the rear of the television.

2 **Connect the AUDIO (red and white) cables** to the AUDIO AV2 IN jacks on the rear of the TV.

3 **Connect the S-VIDEO CABLE** to the S-VIDEO OUT(put) jack on the accessory device.

4 **Connect the red and white AUDIO cables** to the AUDIO (left and right) OUT(put) jacks on the rear of the accessory device.

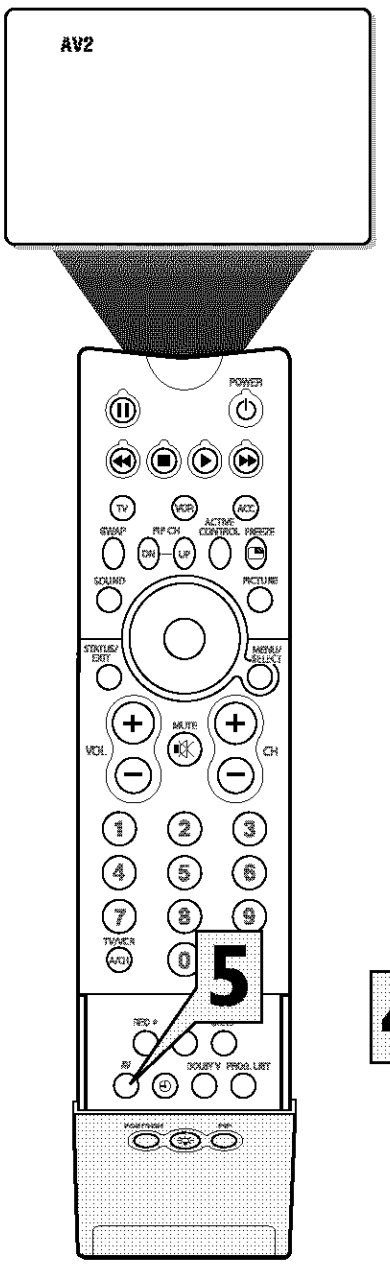
5 **Press the AV button** on the remote control repeatedly to tune the AV2 channel. The S-Video Input is dominate over the AV2 Video Input.

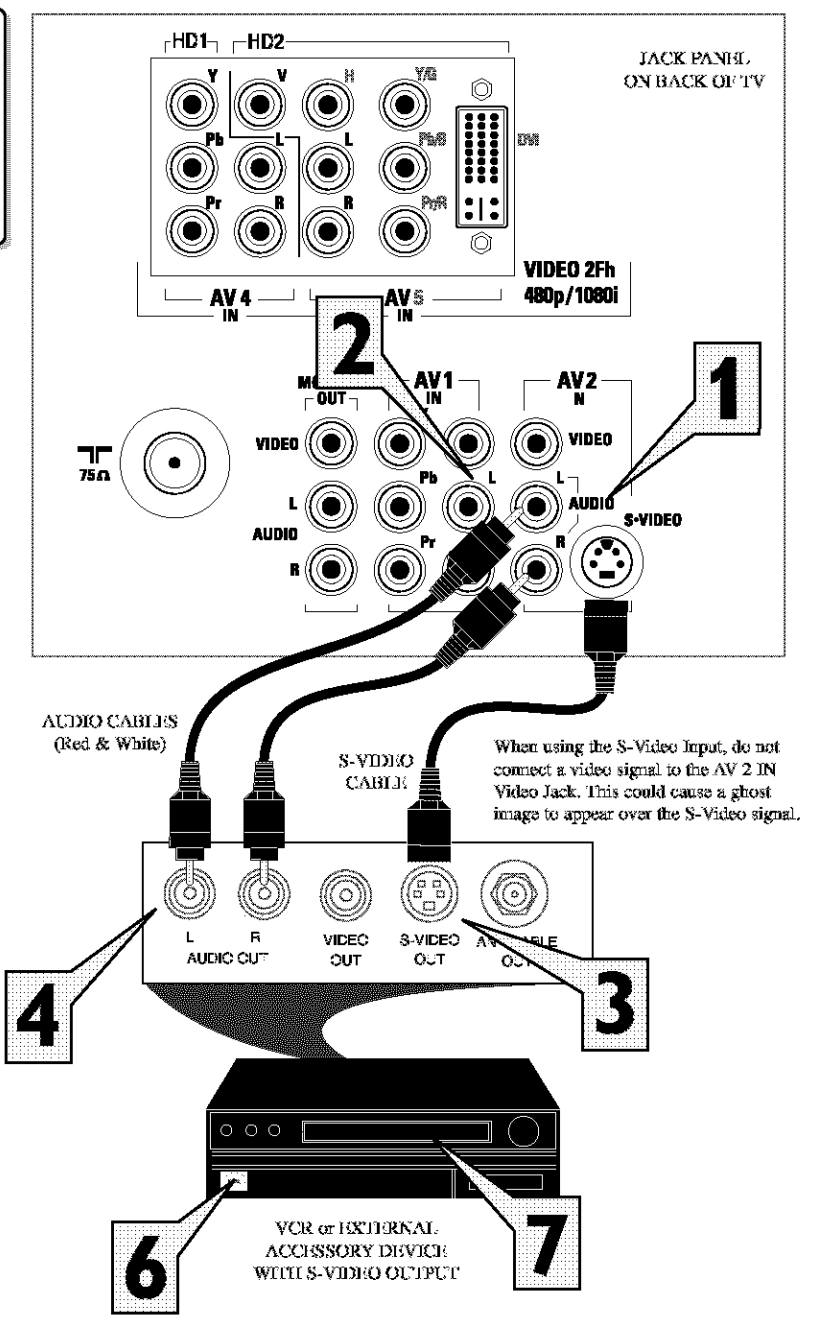
6 **Turn the VCR, DVD or other accessory device ON.**

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

☑ *CHECK IT OUT*

The S-Video jack and the AV 2 jacks work together. When a device is connected to the S-Video jack, do not connect a signal to the AV 2 IN Video jack. This could cause an over-lapping of two video images on the TV screen.





HOOKING UP THE TELEVISION

MONITOR OUTPUT JACKS SECOND VCR FOR RECORDING

The Audio/Video (Monitor) Output jacks can be used for recording a selected TV (Antenna Input/tuner signal source) Channel. This recording can even be completed while viewing another external Audio/Video Source Select option. (For example: DVD program playback shown through the A/V 1 or 2 Input source connection.)

NOTE: Refer to page 4 for the proper hookup of an accessory device to the AV 1 IN(put) jacks. Follow the instructions on how to tune to the AV 1 channel to view a DVD program playback or pre-recorded VCR tape.

The following steps allow you to connect a VCR to record a selected TV channel program through the Monitor Outputs.

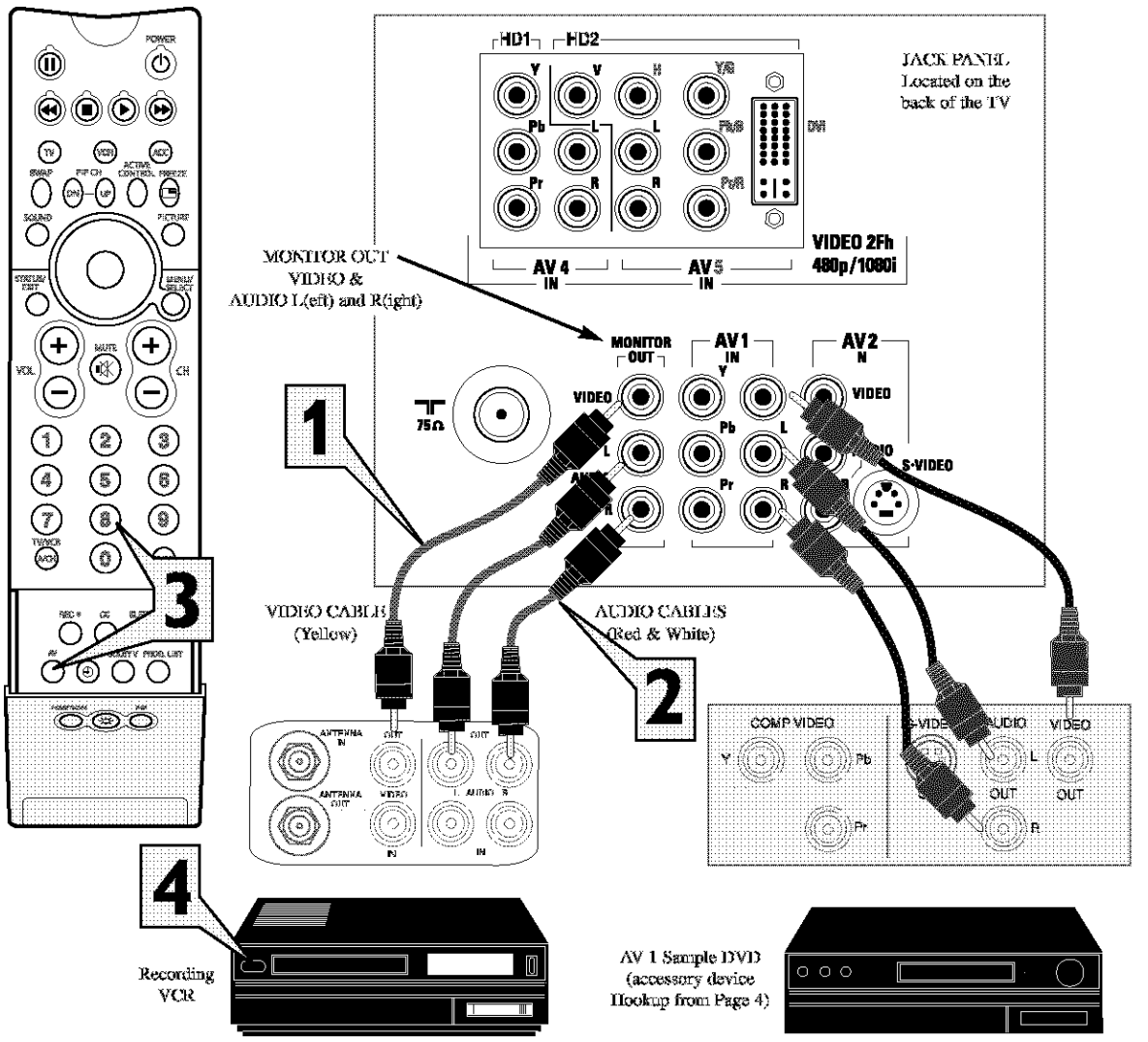
1 **Connect one end of the yellow Video Cable** to the Monitor Out VIDEO plug. Connect the other end to the VIDEO IN plug on the VCR.

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

3 **Tune the TV to the program** channel you wish to record by **pressing the AV or NUMBERED buttons.**

Note: Once selected be sure to leave the TV channel tuned to the desired program until the complete recording is finished.

4 **Turn the recording VCR ON,** insert a blank VHS tape and it's ready to record the channel program you selected previously in step #3.



MONITOR OUTPUT JACKS EXTERNAL AUDIO SYSTEM

The Audio Output jacks are great for connecting to an external audio system or a set of external speakers. This will enhance the sound coming from the television to improve your viewing and listening experience.

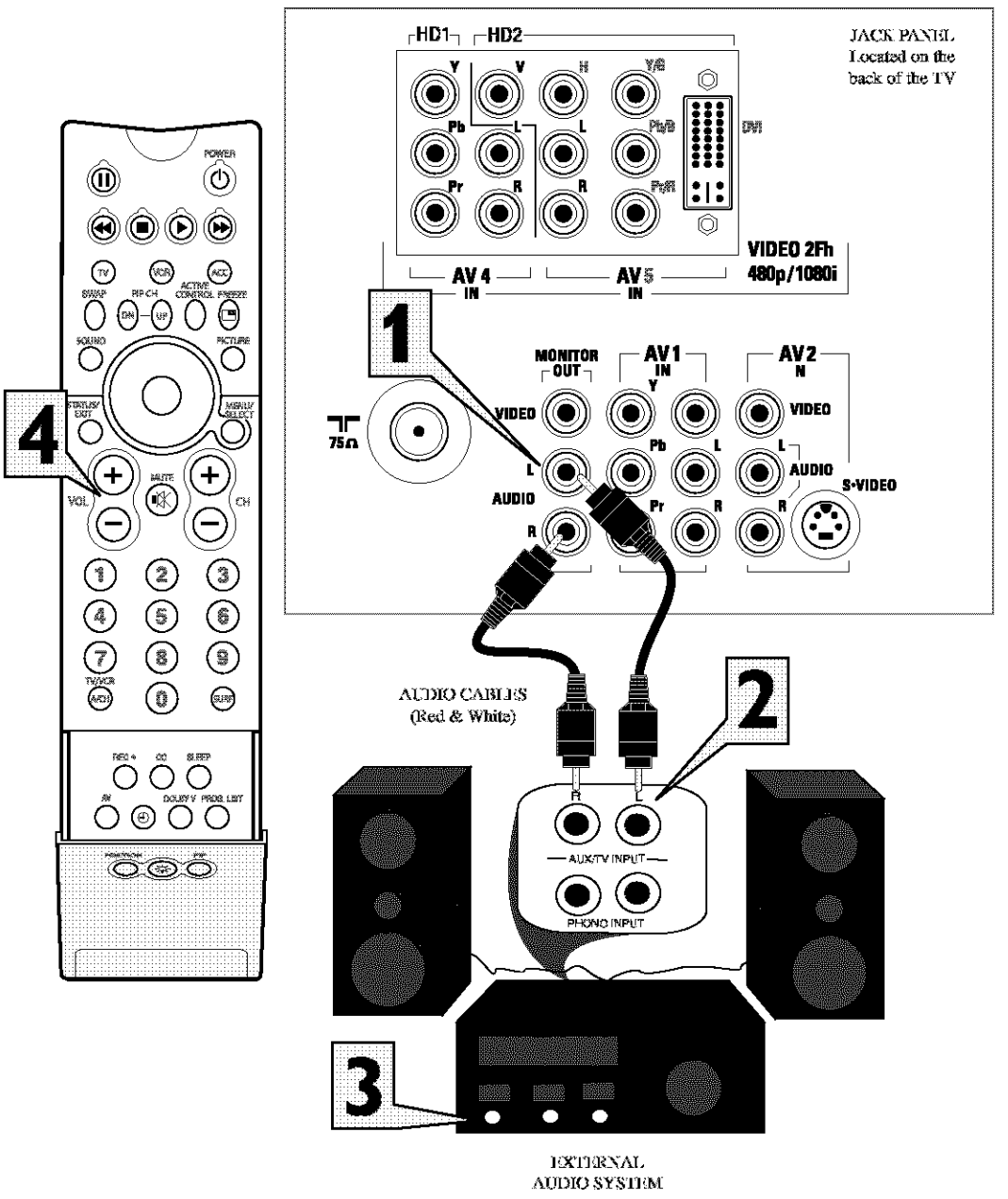
For Audio System Connection:

1 **Connect one end of the R(ight) and L(eft) Audio Cables (red and white)** to the AUDIO OUT (Left and Right) jacks on the television.

2 **Connect the other ends of the R(ight) and L(eft) Audio Cables (red and white)** to the Audio Left and Right Input jacks on the external Audio System.

3 **Turn the Audio System and the TV on.** Adjust the volume coming from the Audio System to a pleasant listening level.

4 You can now adjust the sound level coming from the audio system by **pressing the VOLUME (+) or (–) button** on the TV or remote control.



30" Widescreen HDTV Monitor with Double Window PIP

Highlights

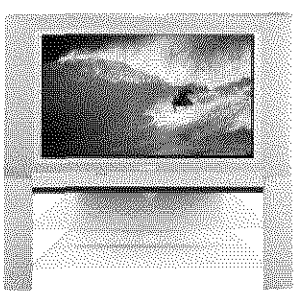
- Double Window, Two-tuner PIP
- Two HD Component inputs plus DVI (1080i/480p)
- 30" Real Flat™ invar picture tube
- Active Control™ continuously optimizes picture
- 6 Widescreen viewing modes plus Auto
- Eye Fidelity™ progressive/interlaced line doubling
- Scan Velocity Modulation

Features

- Side stereo AV in with S-Video and headphone jack
- Rear stereo AV inputs/outputs with CVI and S-Video
- 3D digital comb filter for finest picture detail
- 20 watt audio with Virtual Dolby™ sound
- Universal remote controller

AutoFeaturePak

- AutoPicture™
- AutoSound™
- AutoMute™
- AutoLock™



Shown above with optional matching TC30PV2 stand.

PHILIPS

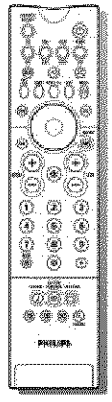
30" Epic Series Television

30PW862H

Technical specifications

Picture Quality

• ***High Definition picture***
True high definition 1080i picture with 6 widescreen plus full-screen (4:3) display modes.
• ***30" Real Flat™ invar picture tube***
The flatter tube provides a wider viewing angle while minimizing reflections for the best picture possible. The special alloy invar shadow mask helps maintain tighter focus and eliminate "color blooming" as compared to standard tubes.
• ***Active Control™***
Noise and sharpness improvement settings are continuously optimized 60x second.
• ***Eye Fidelity™***
Provides the viewer the choice between progressive scan (480p) or a line doubled (1050i) picture when viewing non-HD programming.
• ***3D Y/C digital comb filter***
Separates chrominance (color) from luminance (brightness) information for independent processing to improve picture resolution and minimize distortion.
• ***Scan Velocity Modulation***
Varies the electron beam speed for a more finely rendered picture with improved sharpness.



Ease of Use

• ***Universal Remote***
Controls all TV features plus virtually all brands of VCR, DVD, Cable TV converters and Digital Broadcast Satellite receivers.
• ***AutoPicture™***
Instantly optimizes brightness, contrast, color, tint and sharpness settings with picture presets for Movies, Sports, Video games and weak signal reception.
• ***AutoSound™***
Audio volume levels are automatically adjusted and optimized with the choice of three presets: Movies, Voice, Music plus an adjustable Personal setting.
• ***AutoMute™***
Automatically activates the closed-captioning when the MUTE button is pressed.
• ***AutoLock™***
Protects young children from objectionable programming with V-chip technology.

Any-Button-On Top Controls
Channel Auto-Programming
English/Spanish/French menu
240-minute Sleep Timer
Closed Caption viewing

This television receiver provides display of television closed captioning in accordance with 15.119 of the FCC rules.

➢ **Optional TC30PV2 television stand**
Provides the ideal solution to TV and accessory placement with an emphasis on high design and safety.

Sound Quality

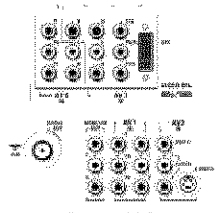
• ***20 watt Stereo Sound system***
Receives stereo broadcasts for high power performance through dual speakers with exciting and lifelike sound.
• ***Virtual Dolby™ surround sound***
Creates a soundstage in front and around the viewer for more immersing home entertainment experience, utilizing the built-in speakers only.

Connectivity

• ***Digital Visual Interface (DVI)***
Removes an unnecessary analog-digital-analog conversion step to enable pure digital signal to display.
• ***Two HD Component inputs (1080i/480p)***
Easy connections for HD set-top decoders and Progressive Scan DVD players.
• ***Component Video inputs***
The best possible input for high resolution analog sources such as DVD, STB and game consoles for superb color purity, detail and reduced color noise, surpassing even S-Video.
• ***S-Video input (Side & Rear)***
The ideal way to connect high resolution picture sources like DVD, Digital Satellite & Cable TV and video games consoles for even better detail than standard Video inputs.
• ***Rear stereo AV inputs and outputs***
Connect a VCR, DVD, Satellite and video game through S-Video or stereo AV connection.Audio/video output jacks make adding a home theatre surround sound even easier!
• ***Side stereo AV in + headphone jack***
Digital cameras and video games can be connected quickly and easily to S-Video or stereo AV inputs. Connect your headphones (optional) for convenient private listening

.

Side AV + Headphone Inputs/Outputs



Rear AV

UPC:	0 37849 93565 1
Product Dimensions:	35"W x 23.5"H x 21.5"D
Product Weight:	123 lbs.
Carton Dimensions:	39.5"W x 28.5"H x 28"D
Carton Weight:	140 lbs.
Carton contains:	Universal Remote Control w/ batteries, operating instructions, warranty information

Active Control™, AutoSound™, AutoPicture™, AutoMute™, AutoLock™, Real Flat™, Incredible Surround™ are trademarks of Philips Consumer Electronics Company.
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Specifications subject to change without notice.

PHILIPS

PHILIPS

Let's make things better.

Color TV

Quick Use and Hookup Guide

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Side Input Jacks Connections 6
Component Video Input Jacks Connections 7
S-Video Input Connection 7
Monitor Output Jack Connections 8

IMPORTANT

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

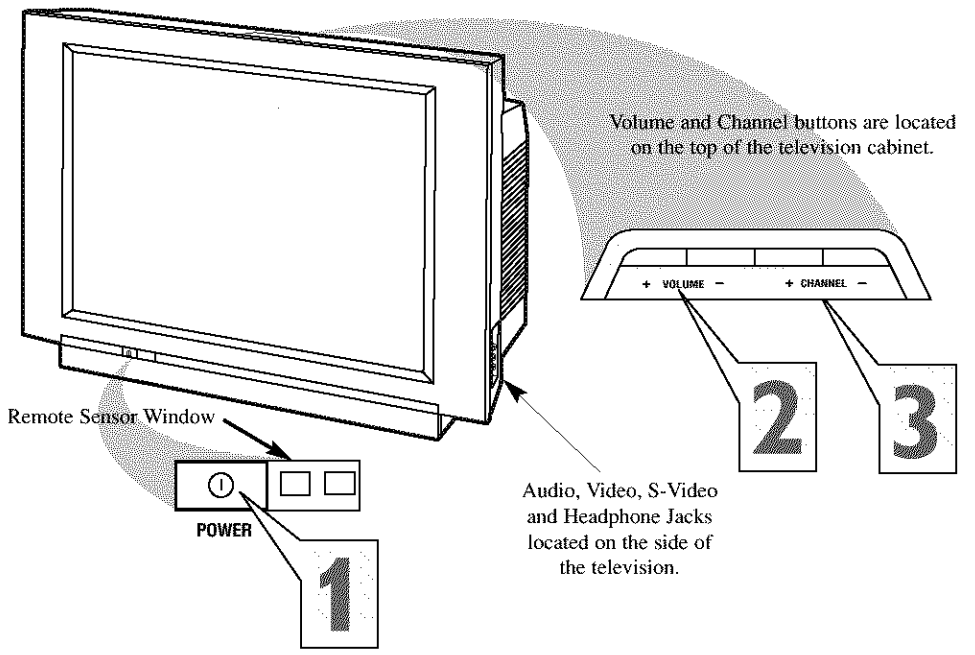
WARNING: TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THIS UNIT TO RAIN OR EXCESSIVE MOISTURE.

Basic TV Operation

Your television has a set of controls located on the top and front of the cabinet for use when the remote control is not needed.

1. **Press the POWER button** on the front of the TV cabinet to turn the TV ON.
   Note: With AutoChron ON, the TV will search for a PBS channel to set the clock before powering itself on. This can take several seconds.
2. **Press the VOLUME + button** to increase the sound level **or the VOLUME – button** to lower the sound level.
   Pressing both buttons at the same time will display the onscreen menu. After you are in the menu, use these buttons to make adjustments or selections.
3. **Press the CHANNEL + or – button** to select TV channels. Use these buttons to make adjustments or selections in the onscreen menu.

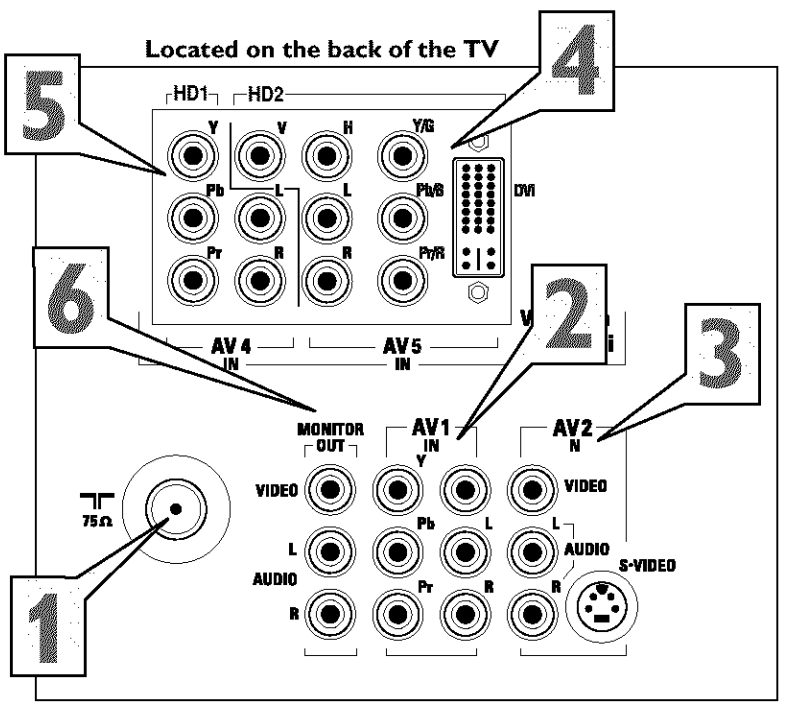
There is also a set of Audio and Video Input jacks located on the side of the television cabinet. Refer to the Side AV3 Input section on page 6 of this *Quick Use and Hookup Guide*.

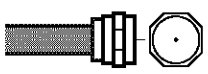


Jack Panel Descriptions and Required Cables

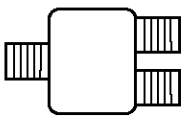
The television is equipped with external input and output jacks for use with optional accessory devices such as Home entertainment Receivers, VCRs, DVD Player, Gaming Units, Video Cameras, etc.

1. **75Ω RF -** Cable/Antenna Input connection jack.
2. **AV 1 IN -** Audio/Video connection jacks including Component Video Inputs.
3. **AV 2 IN -** Audio/Video Input connection jacks including S-Video connections.
4. **AV 5 IN -** High Definition 1080i or 480p Video, DVI (Digital Video Input), Audio Inputs, Horizontal and Vertical Sync connection jacks.
5. **AV 4 IN -** High Definition 1080i or 480p Video and Audio Input connection jacks.
6. **Monitor Out -** Audio/Video Output connection jacks (TV tuner signal only).
7. **SIDE (AV 3) -** Audio/Video Input jacks include a S-Video jack, plus a Headphone jack located on the side of the cabinet.

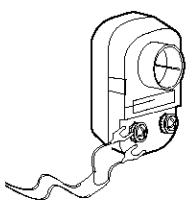




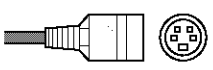
A 75-ohm **coaxial cable** connects signals from an antenna or a cable TV company to the antenna jack on the back of the TV. Coaxial cables use "F" connectors.



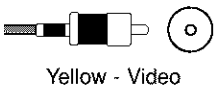
A **two-way signal splitter** enables you to take a single antenna or cable TV signal and supply it to two different inputs.

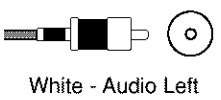


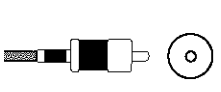
A **300- to 75-ohm twin-lead adapter** accepts the antenna cables (called twin-lead wires) from an antenna, allowing you to connect the antenna signal to the TV.



A **S-Video cable** provides better picture performance than regular (composite) video connections.
S-Video cables can be used only with S-Video-compatible accessory devices. You must also connect the left and right audio cables to the AV 2 Audio in jacks because the S-Video jack carries only the picture signal, not the sound.

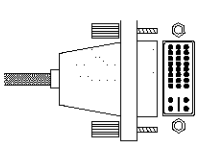






Video and audio cables with standard RCA (phono) connectors connect the video and audio jacks of accessory devices such as VCRs and DVD players to the jacks on the TV.

These connectors are usually color coded. The jacks on your TV are also color coded to match the colors of the connectors. Yellow for video (composite) and Red and White for the right and left audio channels. The video cables used to connect component video or RGB (high-resolution) jacks are color coded red, green, and blue.



A **DVI (Digital Video) cable** that will support digital connection from a PC. Only Single Digital Link DVI is supported for PCs with 480p or 1080i output.

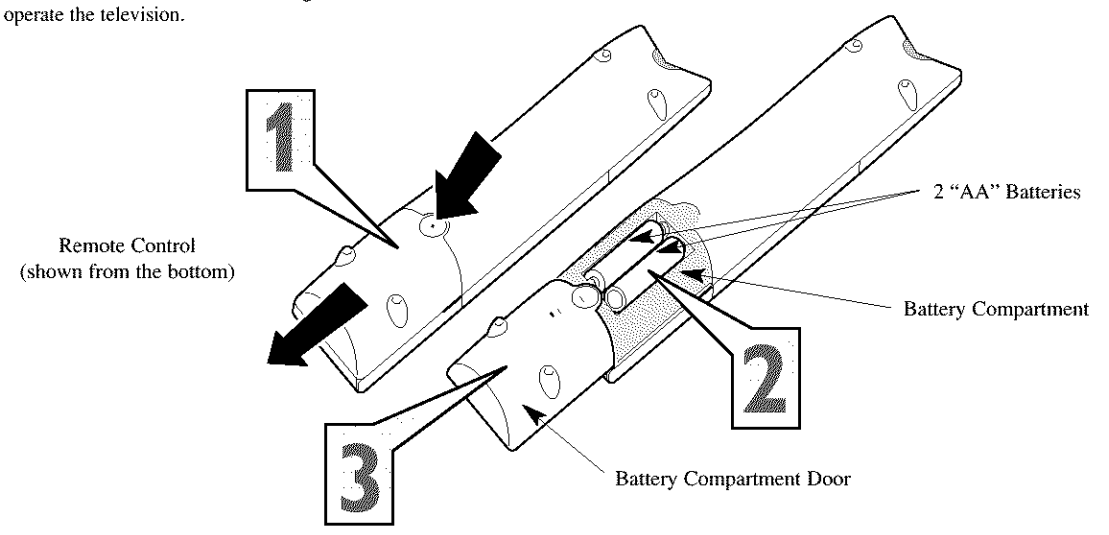
Basic Remote Control Operation

Remote Control Batteries

To load the supplied batteries into the remote:

1. **Remove the battery compartment door** on the back of the remote.
2. **Place the batteries (2-AA) in the remote.** Be sure the (+) and (–) ends of the batteries line up correctly (the inside of the case is marked).
3. **Reattach the battery compartment door.**

Be sure to point the remote at the Remote Sensor window on the front of the television when using the remote control to operate the television.



Remote Control Buttons

VCR control buttons - Press to pause, rewind, stop, play, or fast forward a videotape.

TV • VCR • ACC - (Mode buttons) Press to send remote signals to either the TV, VCRs, or other accessory devices such as cable TV converters, satellite receivers, DVDs, or laser disc players. (You may need to program the remote to work accessory devices. Refer the *Directions for Use* manual.

PIP buttons: SWAP, PIP CH DN/UP, FREEZE - Press to operate the Picture-in-Picture (PIP) features.

Sound - Press to select an AutoSound™ control. Choose from three factory-set controls—Voice, Music, and Theatre—and a Personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls will tailor the TV sound so as to enhance the type of program you are watching.

Status/Exit - Pressing the button once 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.

Cursor Ring - Up/Down: allows you to select the next or previous menu item in the menu. Left/Right: allows you to access the submenus and adjust the settings. When no onscreen displays or menus are present, use the Cursor Ring Left/Right to select a picture format for a video source connected to the ANTENNA, AV1, CVI, AV2, or AV3 (side panel inputs) on the TV.

Volume (+/–) - Press to adjust the TV sound level.

Number Buttons - Press to select TV channels. When selecting single-digit channels, press the number of the desired channel. The TV will pause for a few seconds and then tune to the selected channel.

TV/VCR - Press while in VCR mode to view the playback of a videotape. Press again to return to TV mode.

A/CH - When in the TV mode, press to alternate between the currently viewed channel and the previously viewed channel.

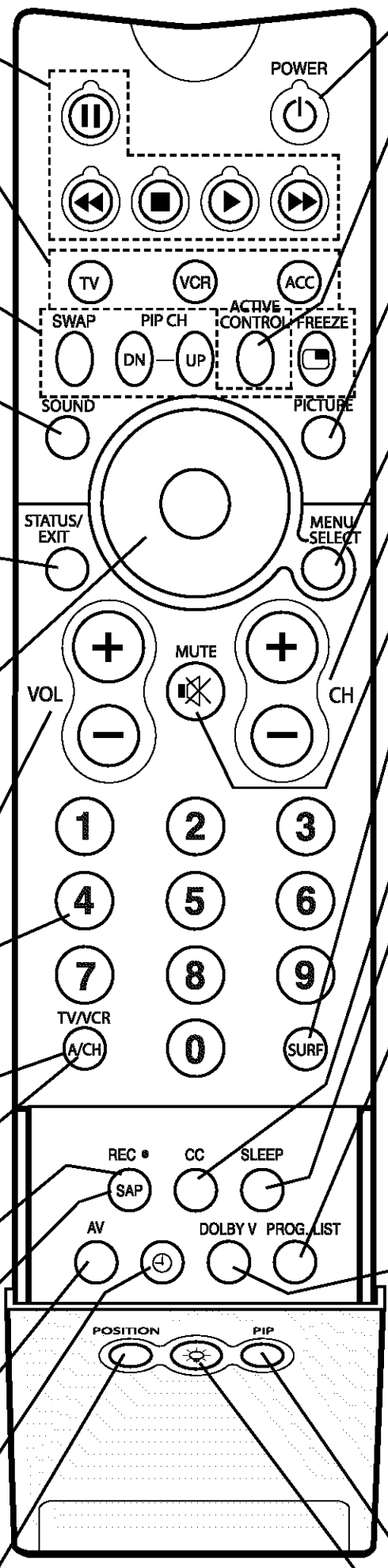
Rec ● - Press this button simultaneously with the ► button when in VCR mode to record.

SAP - When in the TV mode, press to select between main sound and SAP (Second Audio Program) when you tune to a program offering SAP.

AV - Press repeatedly to select the different signal sources connected to the TV: TV (current channel), AV1, CVI, AV2, AV3 (side jack panel), AV4 and AV5.

Clock - Press to access the onscreen Timer menu, where you can set the time for the TV's clock or set the TV's Timer features, such as channel switch over, power on set, and power off set.

Position - Press to move the PIP picture to any of the four corners of the screen.



Power - Press to turn the TV on or off.

Active Control™ - Measures and corrects all incoming signals to provide the best picture-quality settings. Press to turn Active Control™ on or off. When Active Control™ is on, it automatically and continuously controls Sharpness and Noise Reduction settings.

Picture - Press to select an AutoPicture™ control. Choose from four factory-set controls—Movies, Sports, Weak Signal, and Multimedia—and a PERSONAL control that you set according to your own preferences through the onscreen Picture menu.

Menu/Select - Press to display the onscreen menu. Press to return to a higher menu level.

Channel (+/–) - Press to select channels in ascending or descending order or cycle through the signal inputs.

Mute - Press to turn the TV sound off. To restore the sound to its previous level, press the button again.

Surf - Press to select previously entered channels. With the TV's AutoSurf™ control, you can place up to 10 favorite channels or sources in memory. Then by pressing the Surf button, you can quickly view the selected channels.

CC Button - Press to select Closed Captioning options within the menu.

Sleep - Press to set the TV to automatically turn itself off after a period of time. Choose 15, 30, 45, 60, 90, 120, 180, or 240 minutes before the TV will automatically turn off.

Program List - Press to display a list of channel numbers and their names. Each channel will appear as a selectable menu item. The current channel will be highlighted as default. Five channels will be listed on screen at one time. Press the Cursor Ring up or down to scroll the list and and highlight a channel. 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. Each channel that is being blocked by AutoLock™ will appear with a padlock icon to indicate that the channel is not viewable.

Dolby V - Press to select various factory surround sound listening modes.

Dolby* Virtual (Virtual Dolby Surround) (with Virtual Dolby Surround signals) - Dolby Virtual uses two speakers to simulate the surround effect produced by a multichannel system.

Incredible Surround™ - In **Stereo** sound mode—when Incredible Surround™ is turned on—it seems as though the loudspeakers are spread farther apart from each another. In **Mono** sound mode—when Incredible Surround™ is turned on—enables you to hear a spatial sound effect.

PIP - Press to turn PIP (picture-in-picture) on or off or control the size of the PIP window.

Back Light button - Press to light the buttons on the remote control.

Hooking Up the Television

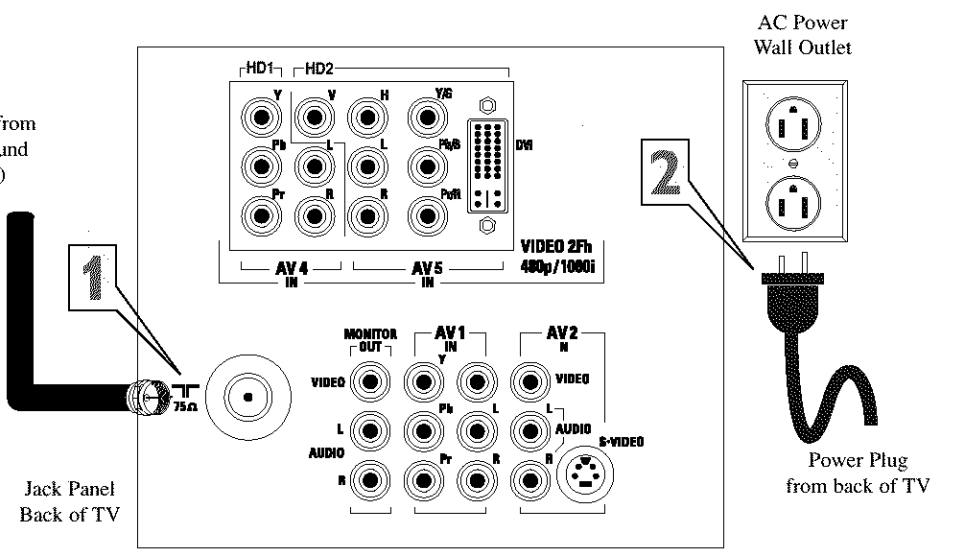
Direct Cable TV Input

Your Cable TV input into your home may be a single (75 ohm) cable or a converter box installation. In either case, the connection to the TV is very easy. Follow the steps below to connect your cable signal to your new television.

If your cable signal comes directly from a round 75Ω coaxial cable use the following steps:

1. **Connect the open end of the round Cable Company supplied cable** to the 75Ω input on the TV. Screw it down finger tight.
2. **Plug the television into the wall outlet** and turn the TV on. Refer to the AUTOPROGRAM feature to program all the available channels on your cable signal.

Direct Cable Connection:

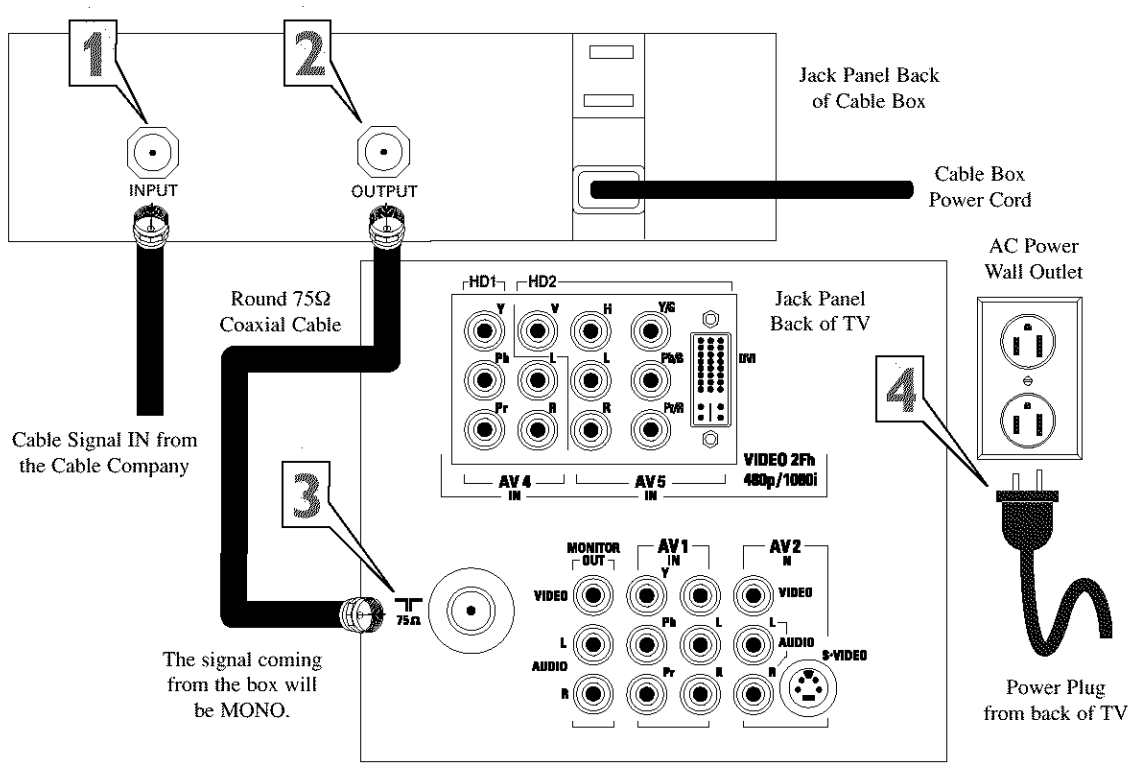


Cable TV Box Input

If your cable signal comes from a cable box, use the following steps: (This connection will be mono. Some Cable boxes use Left and Right channel audio output jacks for stereo connections. This type of Cable Box can be connected to the AV1 or AV2 Audio Left and Right Audio Inputs. Please refer to your Cable Box instructions.)

1. **Connect the open end of the round Cable Company supplied cable** to the cable signal IN(put) plug on the back of the Cable Box.
2. Using a separate round coaxial cable, **connect one end to the OUT(put) plug on the back of the Cable Box.**
3. **Connect the other end of the round coaxial cable** to the 75Ω input on the back of the television. Screw it down finger tight.
4. **Plug the television into the wall outlet** and turn the TV on. Refer to the TUNER and AUTOPROGRAM features on page 4 of this Quick Use Guide. TUNER should be set to the CABLE option. AUTOPROGRAM can be set to program all the available channels on your cable signal into the television's memory.

Cable Box Connection:

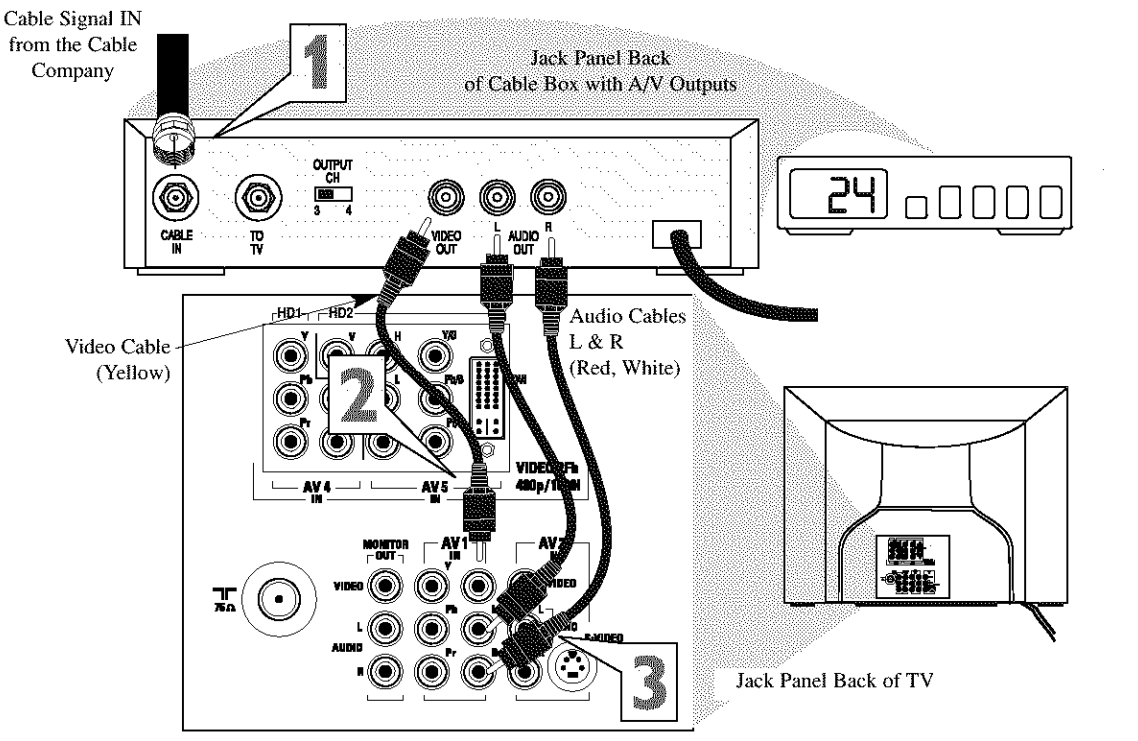


Cable TV Box with A/V Inputs

This connection will supply Stereo sound to the TV.

1. **Connect the open end of the round Cable Company supplied cable** to the cable signal IN(put) plug on the back of the Cable Box.
2. Using a RCA type Video Cable, **connect one end of the cable to the Video** (or ANT, your cable box may be labeled differently) **Out jack** on the cable box and the other end to the AV1 Video Input on the TV.
3. Using a RCA type Audio Left and Right Cable, **connect one end to the left and right Audio Out L & R jacks on the cable box.** Connect the other end to the AV1 Audio L & R Input jacks on the TV.

NOTE: Use the AV button on the TV remote control to tune to the AV1 channel for the cable box signal. Once tuned, change channels at the cable box, not the television. Pressing the AV button repeatedly will scroll all the AV Input channels, including the presently tuned channel.

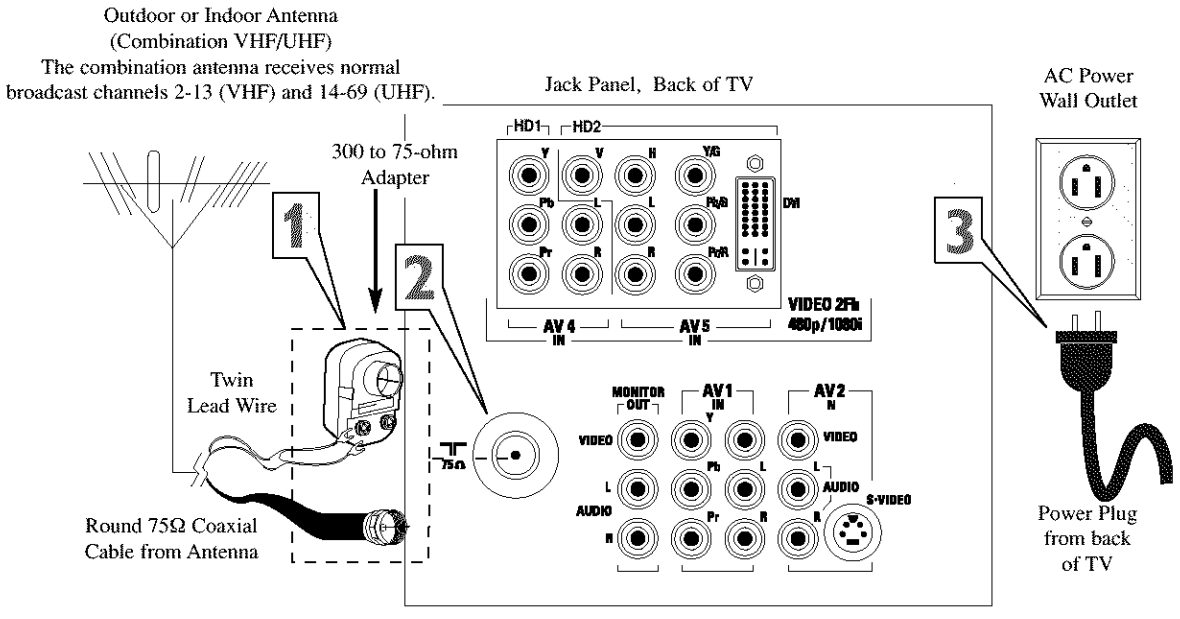


Antenna TV

A combination antenna receives normal broadcast channels (VHF 2–13 and UHF 14–69). Your connection is easy because there is only one 75Ω (ohm) antenna plug on the back of your TV, and that's where the antenna goes.

1. **If your antenna has a round cable** (75 ohm) on the end, then you're ready to connect it to the TV.
   If your antenna has flat, twin-lead wire (300 ohm), you first need to attach the antenna wires to the screws on a 300- to 75-ohm adapter.
2. **Push the round end** of the adapter (or antenna) onto the 75Ω (ohm) plug on the back of the TV. If the round end of the antenna wire is threaded, screw it down finger tight.
3. **Plug the television into the wall outlet** and turn the TV on. Refer to the TUNER and AUTOPROGRAM features on page 4 of this Quick Use Guide. TUNER should be set to the ANTENNA option. AUTOPROGRAM can be set to program all the available channels on your cable signal into the television's memory.

Antenna Connection:

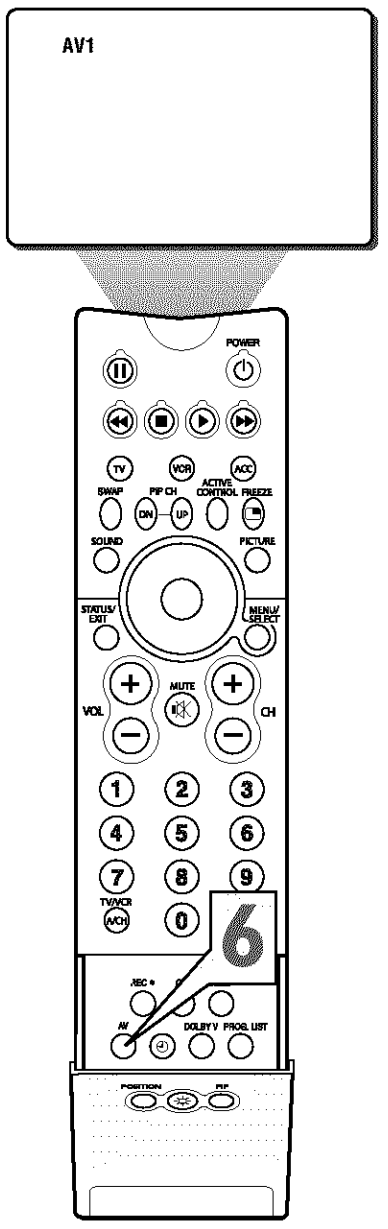


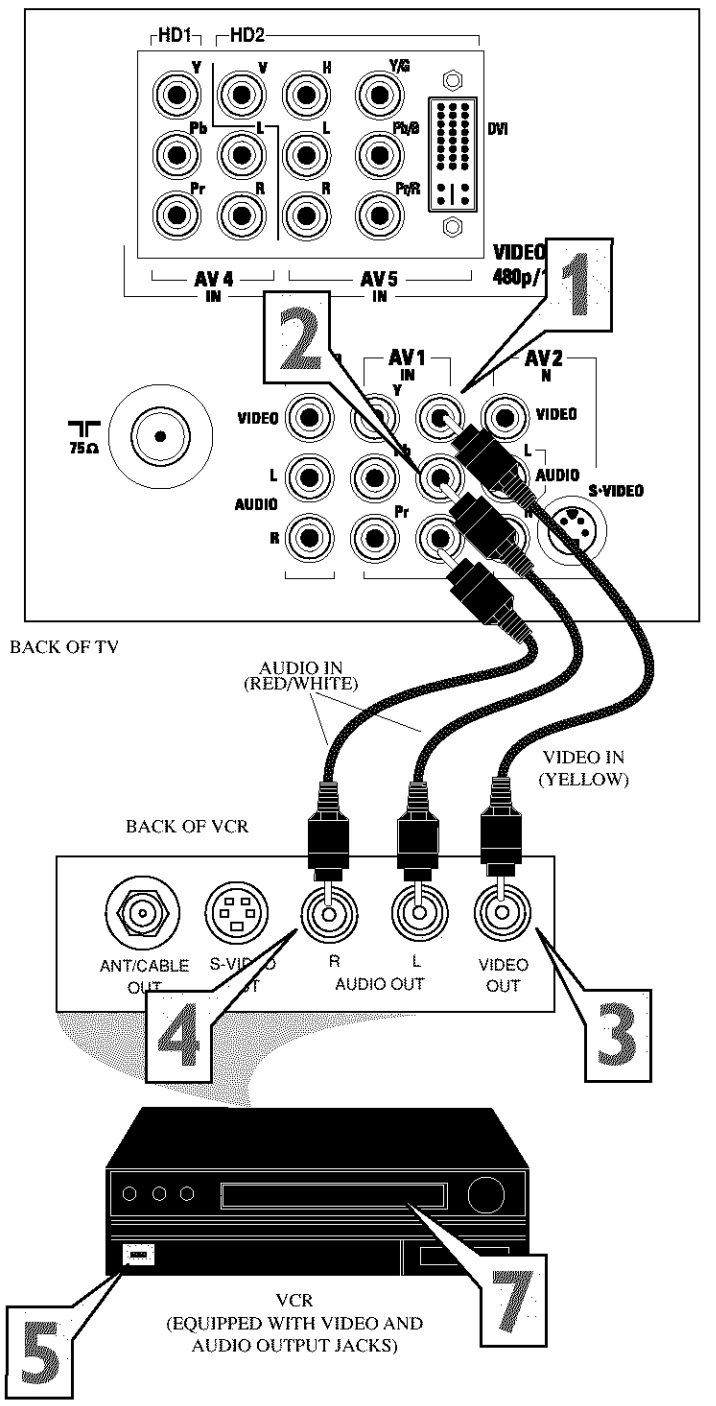
HOOKING UP THE TELEVISION

USING THE AV 1 INPUT JACKS

The TV's audio/video input jacks are for direct picture and sound connections between the TV and a VCR (or similar device) that has audio/video output jacks. Follow the easy steps below to connect your accessory device to the AV 1 Input Jacks located on the back of the TV.

1. **Connect the VIDEO (yellow) cable** to the VIDEO AV1 IN jack on the back of the TV.
2. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) AV1 IN jacks on the rear of the TV.
3. **Connect the VIDEO (yellow) cable** to the VIDEO OUT jack on the back of the VCR.
4. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) OUT jacks on the rear of the VCR.
5. **Turn the VCR (accessory device) and the TV ON.**
6. **Press the AV button** on the remote control to tune the AV1 channel.
7. **Insert a prerecorded tape** (or CD, DVD, depending on the type of accessory device being used) and, **press the PLAY button** on the accessory device to view the playback.

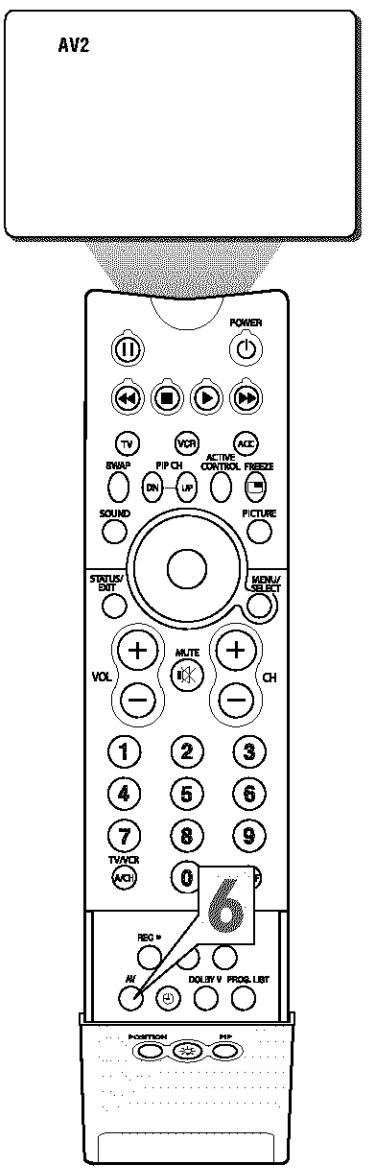


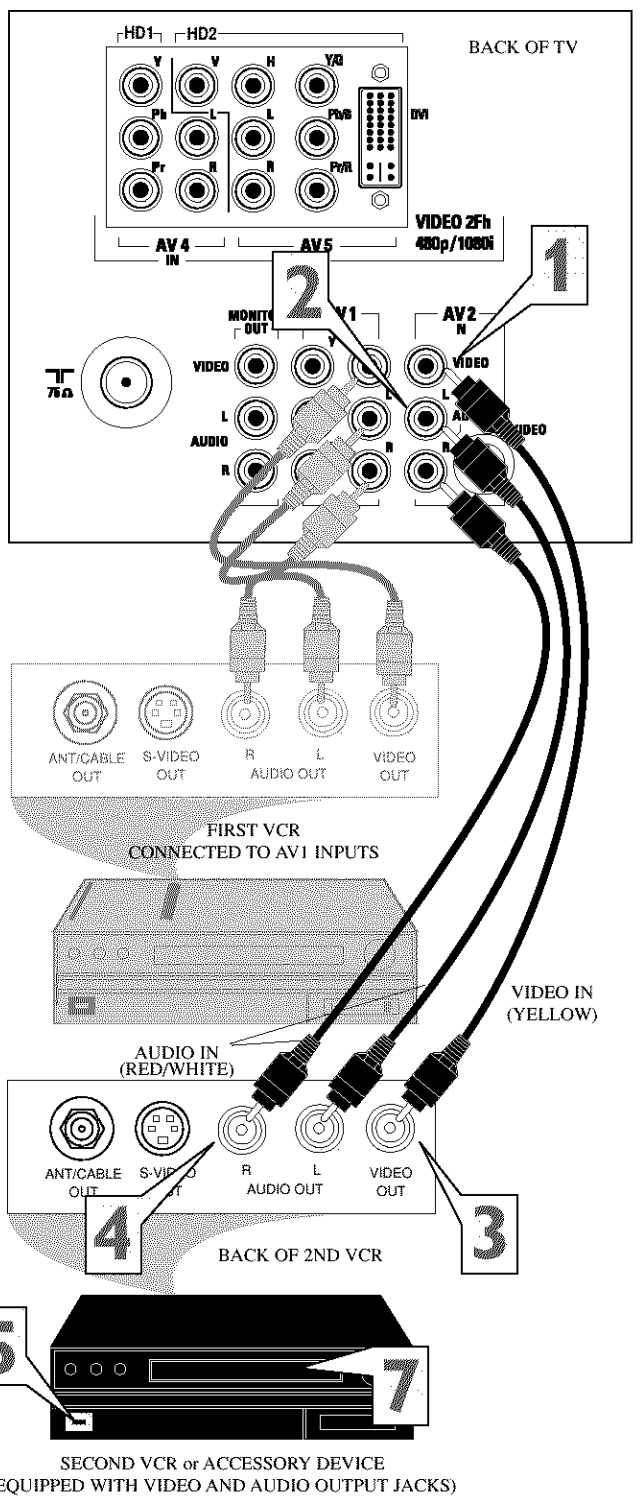


USING THE AV 2 INPUT JACKS

The TV's audio/video input jacks allow you connect multiple accessory devices at one time to different sets of input jacks.. Follow the easy steps below to connect an additional accessory device to the AV 2 Input Jacks located on the back of the TV.

1. **Connect the VIDEO (yellow) cable** to the VIDEO AV2 IN jack on the back of the TV.
2. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) AV2 IN jacks on the rear of the TV.
3. **Connect the VIDEO (yellow) cable** to the VIDEO OUT jack on the back of the VCR.
4. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) OUT jacks on the rear of the VCR.
5. **Turn the VCR (accessory device) and the TV ON.**
6. **Press the AV button** on the remote control to tune to the AV2 channel.
7. **Insert a prerecorded tape** (or CD, DVD, depending on the type of accessory device being used) and, **press the PLAY button** on the accessory device to view the playback.





HOOKING UP THE TELEVISION

USING THE AV 5 INPUT JACKS

The AV5 Input Jacks provide High Definition Video Inputs at 1080i or 480p, for accessories like a HD Receiver and Digital DVD Players. There is also a DVI jack supplied allowing encrypted transmission of uncompressed HD content. .

1. **Connect the Component (Y, Pb, Pr) Video OUT** jacks from the HD accessory device to the (Y, Pb, Pr) AV5 IN(put) jacks on the TV. If the device your using is equipped with separate Horizontal and Vertical sync, connect the H and V Outputs on the accessory device to the H and V Inputs of AV5 IN.

2. **Connect the red and white AUDIO CABLES** to the Audio (left and right) output jacks on the rear of the HD accessory device to the Audio (L and R) AV5 IN(put) jacks on the TV.

3. **Connect a DVI cable** from the DVI OUT on the HD accessory device to the AV5 DVI jack on the back of the TV.

4. **Connect a 75Ω round cable** from the OUT TO TV jack on the HD accessory device to the 75Ω IN on the back of the TV.

5. If using a Satellite Dish, Cable signal or Antenna signal, **connect the 75Ω round cable** from a Satellite Dish to the SATELLITE IN and/or the Cable and Antenna signals to the ANTENNA "A" or "B" IN on the back of the HD accessory device.

6. **Press the AV button** on the remote control repeatedly to tune to the AV5 channel.

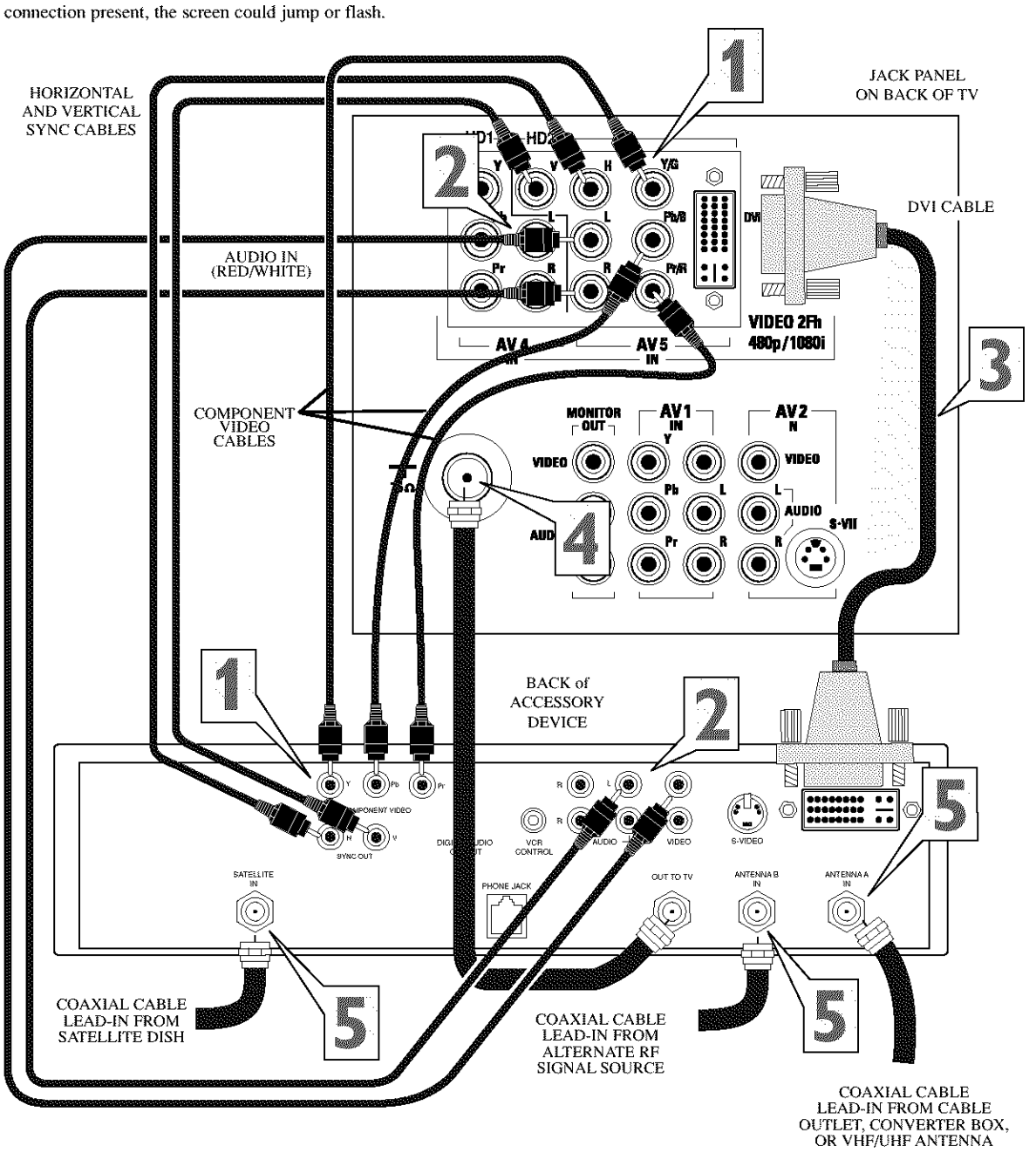
Your now ready to use your digital device to begin playback of high definition quality.

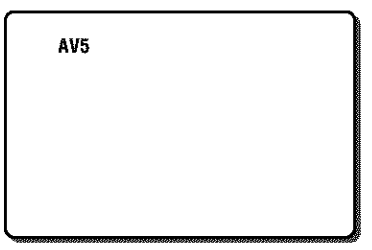
NOTE: This television is designed to accept high definition signals 1080i and 480p as specified by the Electronic Industries Association standard EIA770.3. Digital devices from different manufacturers have the possibility of differing output standards which my cause difficulties for the television to properly display.

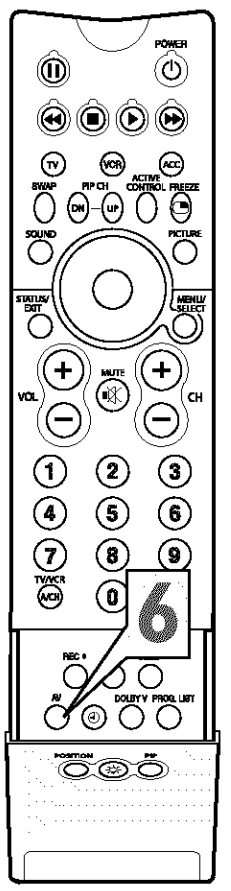
☑ CHECK IT OUT

DVI - DVI is a specific digital input allowing encrypted transmission of uncompressed HD content. DVI includes HDCP (high-bandwidth digital content protection), which is supported by Hollywood, satellite providers, and most of the consumer electronics industry. DVI is gaining momentum and quickly becoming an industry standard for the consumer to view high-definition material while keeping content protected.
NOTE: The Picture-in-Picture (PIP) feature is not available for use with AV5.

Note: If the AV5 channel is tuned and no signal connection present, the screen could jump or flash.







HOOKING UP THE TELEVISION

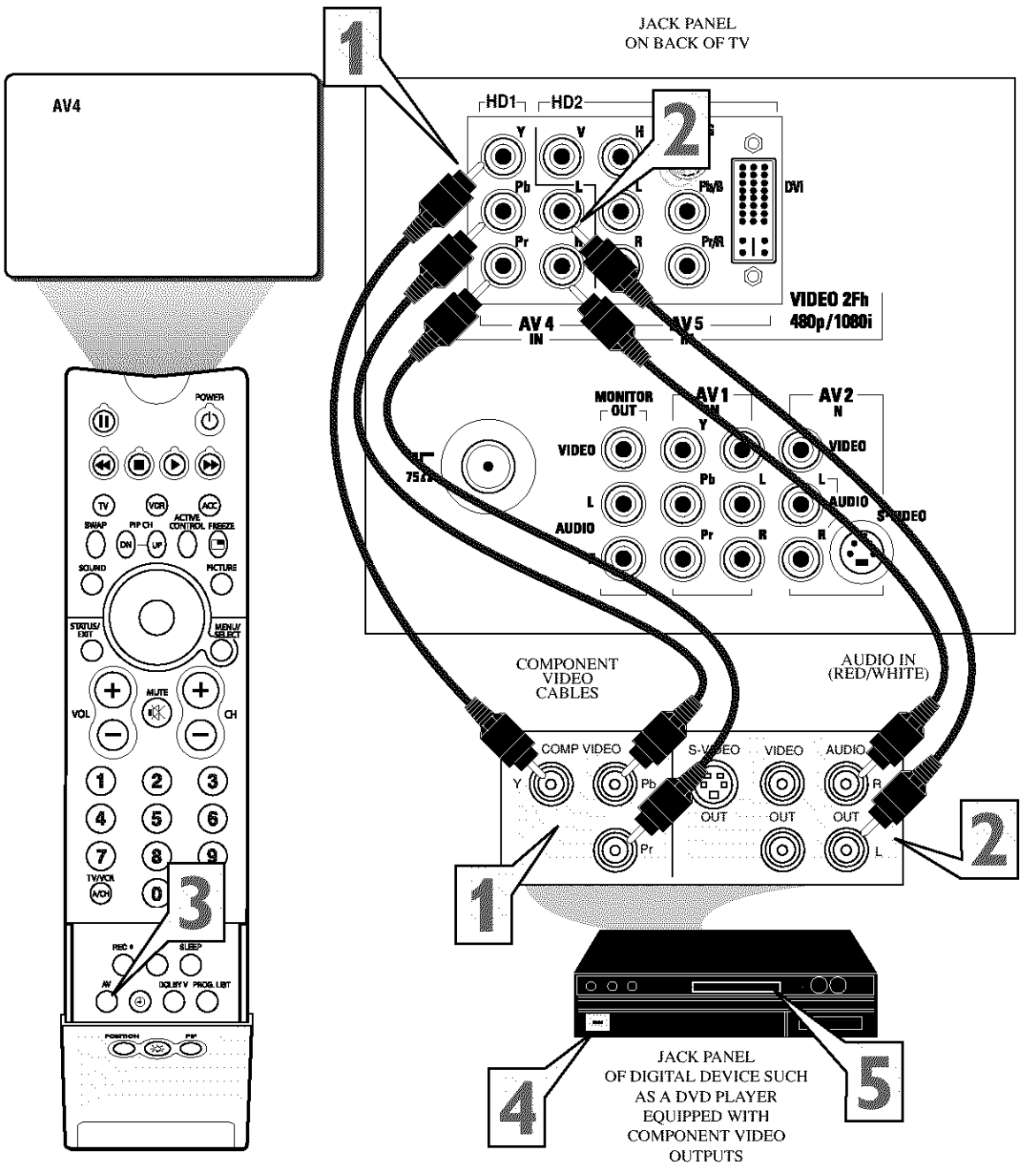
USING THE AV 4 INPUT JACKS

The AV4 Input Jacks provide High Definition Video Inputs at 1080i or 480p, for accessories like a HD Receiver and Digital DVD Players. Using the color difference signals (Pb, Pr) and the luminance (Y) signal will improve color bandwidth information.

1. **Connect the Component (Y, Pb, Pr) Video OUT** jacks from the DVD player (or similar device) to the (Y, Pb, Pr) AV4 IN(put) jacks on the TV.
2. **Connect the red and white AUDIO CABLES** to the AUDIO (left and right) OUT(put) jacks on the rear of the accessory device to the Audio (L and R) AV4 IN(put) jacks on the TV.
3. **Press the AV button** on the remote control repeatedly to tune to the AV4 channel.
4. **Turn the TV and the DVD (or digital accessory device) ON.**
5. **Press the PLAY button** on the DVD (or digital accessory device) to view the program on the television.

NOTE: This television is designed to accept high definition signals 1080i and 480p as specified by the Electronic Industries Association standard EIA770.3. Digital devices from different manufacturers have the possibility of differing output standards which my cause difficulties for the television to properly display.

Note: If the AV4 channel is tuned and no signal connection present, the screen could jump or flash.

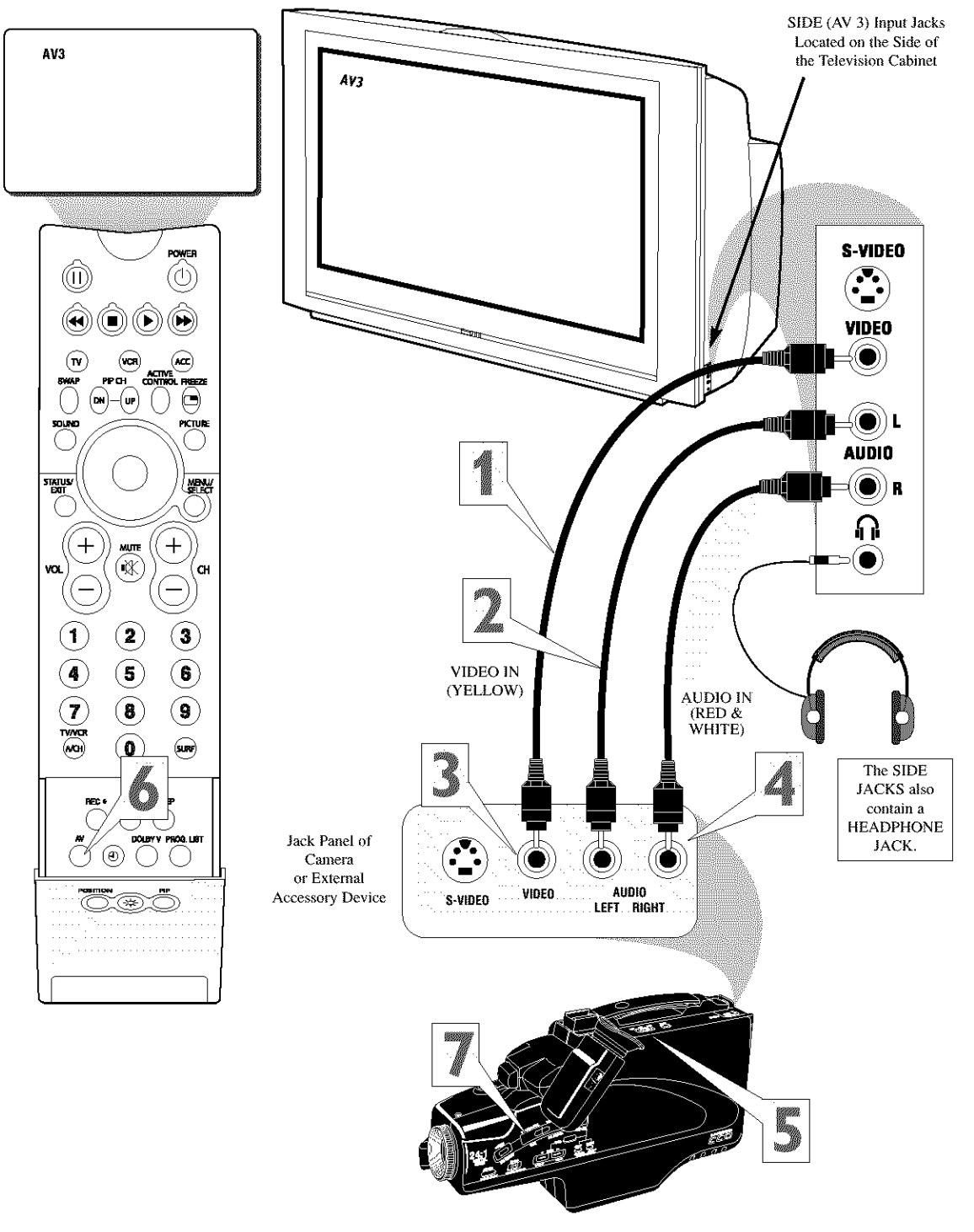


USING THE SIDE AV 3 INPUT JACKS

This television has input jacks conveniently located on the side of the cabinet. These jack are for easy hook-ups (without having to move around to the back of the TV) for cameras, gaming units, and other accessory devices that wouldn't be connected permanently. Follow the easy steps below to connect your accessory device to the SIDE Input Jacks located on the right side of the TV.

1. **Connect the VIDEO (yellow) cable** to the VIDEO IN jack on the side of the TV.
2. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) IN jacks on the side of the TV.
3. **Connect the VIDEO (yellow) cable** to the VIDEO OUT jack on the back of the camera (or accessory device).
4. **Connect the AUDIO (red and white) cables** to the AUDIO (left and right) OUT jacks on the rear of the camera (or accessory device).
5. **Turn the camera (or accessory device) and the TV ON.**
6. **Press the AV button** on the remote control repeatedly to tune to the AV3 channel.
7. With the camera (or accessory device) ON and a prerecorded tape (or other media depending on type of accessory device being used) inserted, **press the PLAY button** to view the tape on the television.

NOTE: The S-Video Cable can be used in place of the Yellow Video cable shown in this diagram. If your camera or accessory device has a S-Video output jack, connecting the video signal through the S-Video jack will reproduce the video signal with greater quality.



HOOKING UP THE TELEVISION

COMPONENT VIDEO INPUT (CV1)

If using an accessory device that is not high definition but uses Component Video jacks. The AV1 jacks on the TV offer the user the possibility of better video reproduction using the Component Video Inputs. The color difference signals (Pb, Pr) and the luminance (Y) signal are connected and received separately, which allows for improved color bandwidth information (not possible when using composite video or S-Video connections).

1. **Connect the Component (Y, Pb, Pr) Video OUT** jacks from the DVD player (or similar device) to the (Y, Pb, Pr) IN(put) jacks on the TV. When using the Component Video Inputs, it is best not to connect a signal to the AV1 Video Input.

2. **Connect the yellow VIDEO CABLE along with the red and white AUDIO CABLES** to the AUDIO (left and right) OUT(put) jacks on the rear of the accessory device to the AV1 VIDEO and AUDIO IN(put) jacks on the TV.

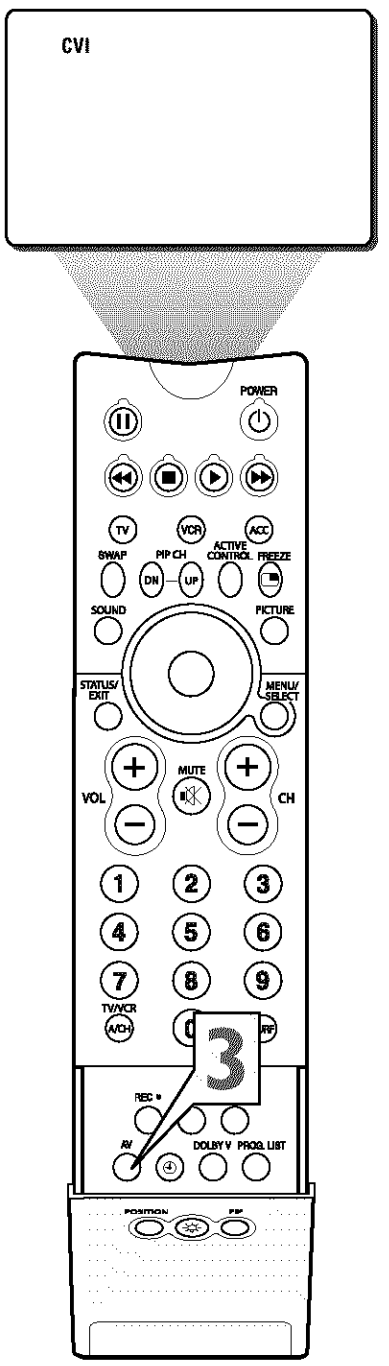
3. **Press the AV button** on the remote control repeatedly to tune to the CVI channel.

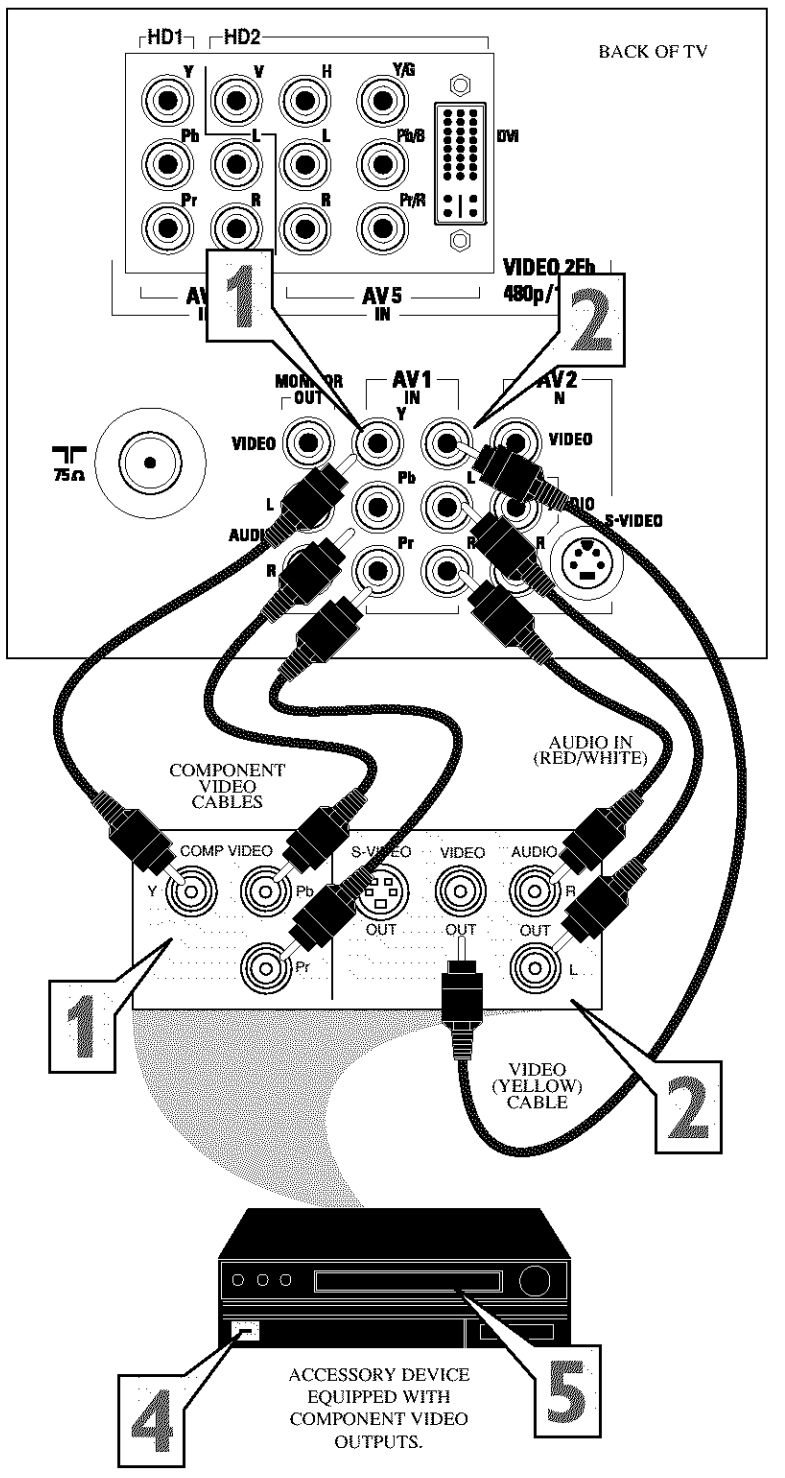
4. **Turn the TV and the DVD (or digital accessory device) ON.**

5. Insert a DVD disc into the DVD player and **press the PLAY ▶ button on the DVD Player (or digital accessory device).**

HELPFUL HINT

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





S-VIDEO INPUT

The S(uper)-Video connection on the rear of the TV can provide you with better picture detail and clarity for the playback of accessory sources such as DBS (digital broadcast satellite), DVD (digital video discs), video games, and S-VHS VCR (video cassette recorder) tapes than the normal antenna picture connections.

NOTE: *The accessory device must have an S-VIDEO OUT(put) jack in order for you to complete the connection on this page.*

1. **Connect the S-VIDEO CABLE** to the S-VIDEO input jack on the rear of the television.

2. **Connect the AUDIO (red and white) cables** to the AUDIO AV2 IN jacks on the rear of the TV.

3. **Connect the S-VIDEO CABLE** to the S-VIDEO OUT(put) jack on the accessory device.

4. **Connect the red and white AUDIO cables** to the AUDIO (left and right) OUT(put) jacks on the rear of the accessory device.

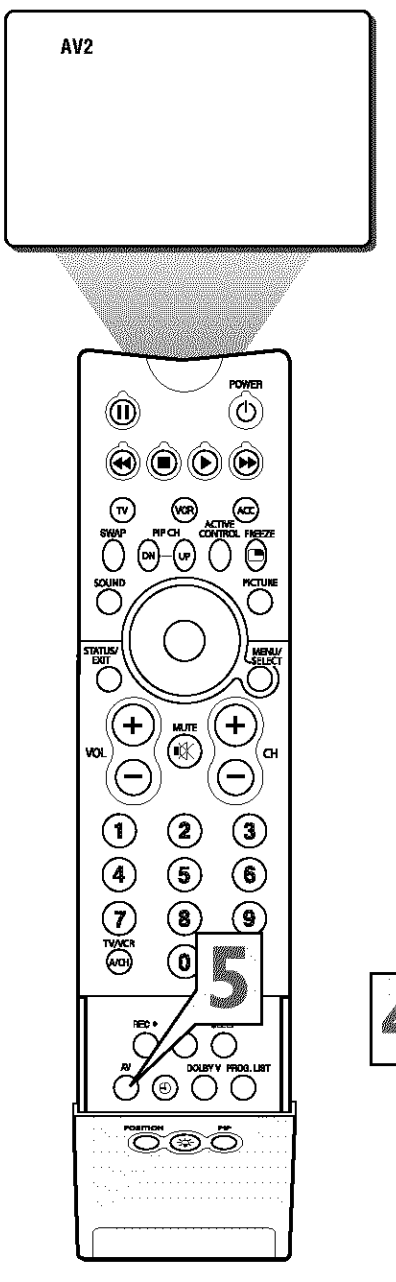
5. **Press the AV button** on the remote control repeatedly to tune the AV2 channel. The S-Video Input is dominate over the AV2 Video Input.

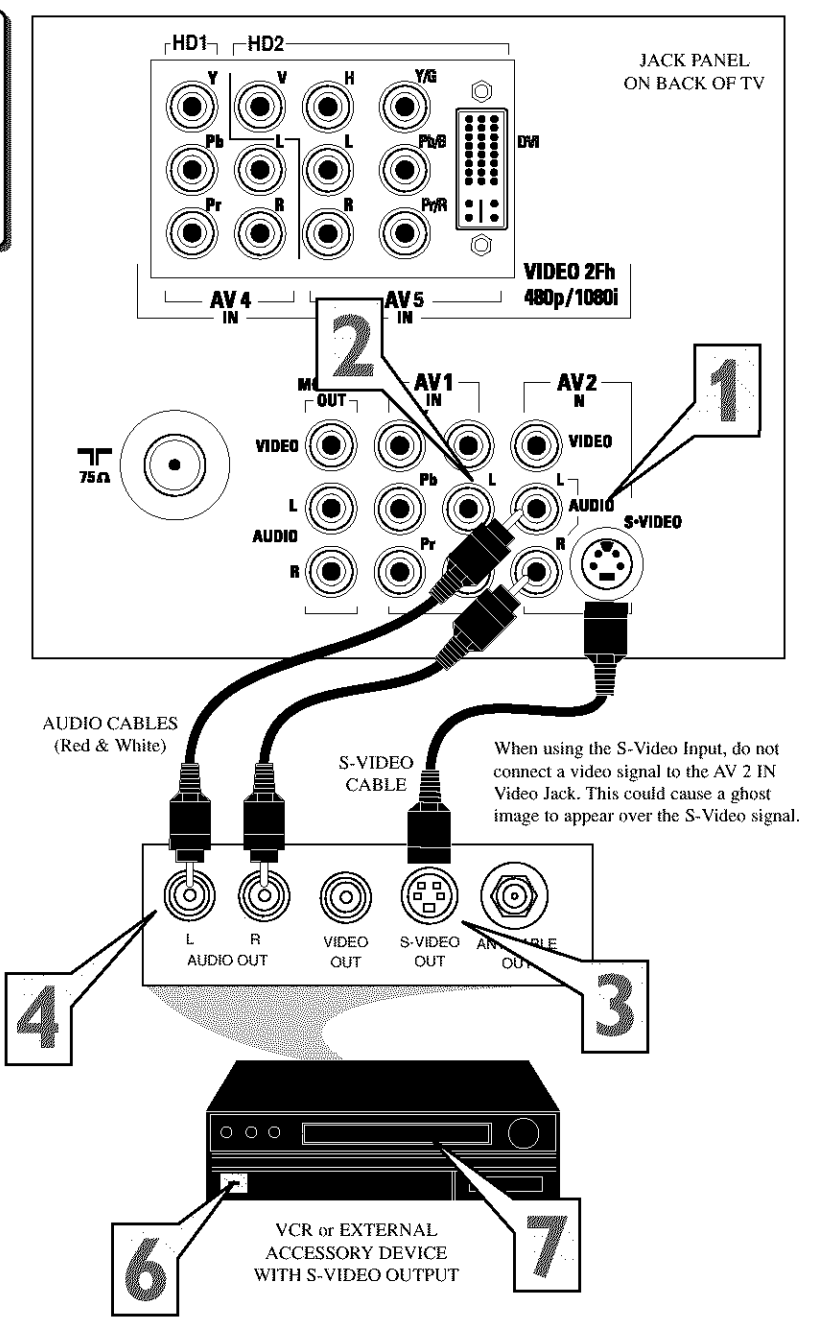
6. **Turn the VCR, DVD or other accessory device ON.**

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

☑ *CHECK IT OUT*

The S-Video jack and the AV 2 jacks work together. When a device is connected to the S-Video jack, do not connect a signal to the AV 2 IN Video jack. This could cause an over-lapping of two video images on the TV screen.





HOOKING UP THE TELEVISION

MONITOR OUTPUT JACKS SECOND VCR FOR RECORDING

The Audio/Video (Monitor) Output jacks can be used for recording a selected TV (Antenna Input/tuner signal source) Channel. This recording can even be completed while viewing another external Audio/Video Source Select option. (For example: DVD program playback shown through the A/V 1 or 2 Input source connection.)

NOTE: Refer to page 4 for the proper hookup of an accessory device to the AV 1 IN(put) jacks. Follow the instructions on how to tune to the AV 1 channel to view a DVD program playback or pre-recorded VCR tape.

The following steps allow you to connect a VCR to record a selected TV channel program through the Monitor Outputs.

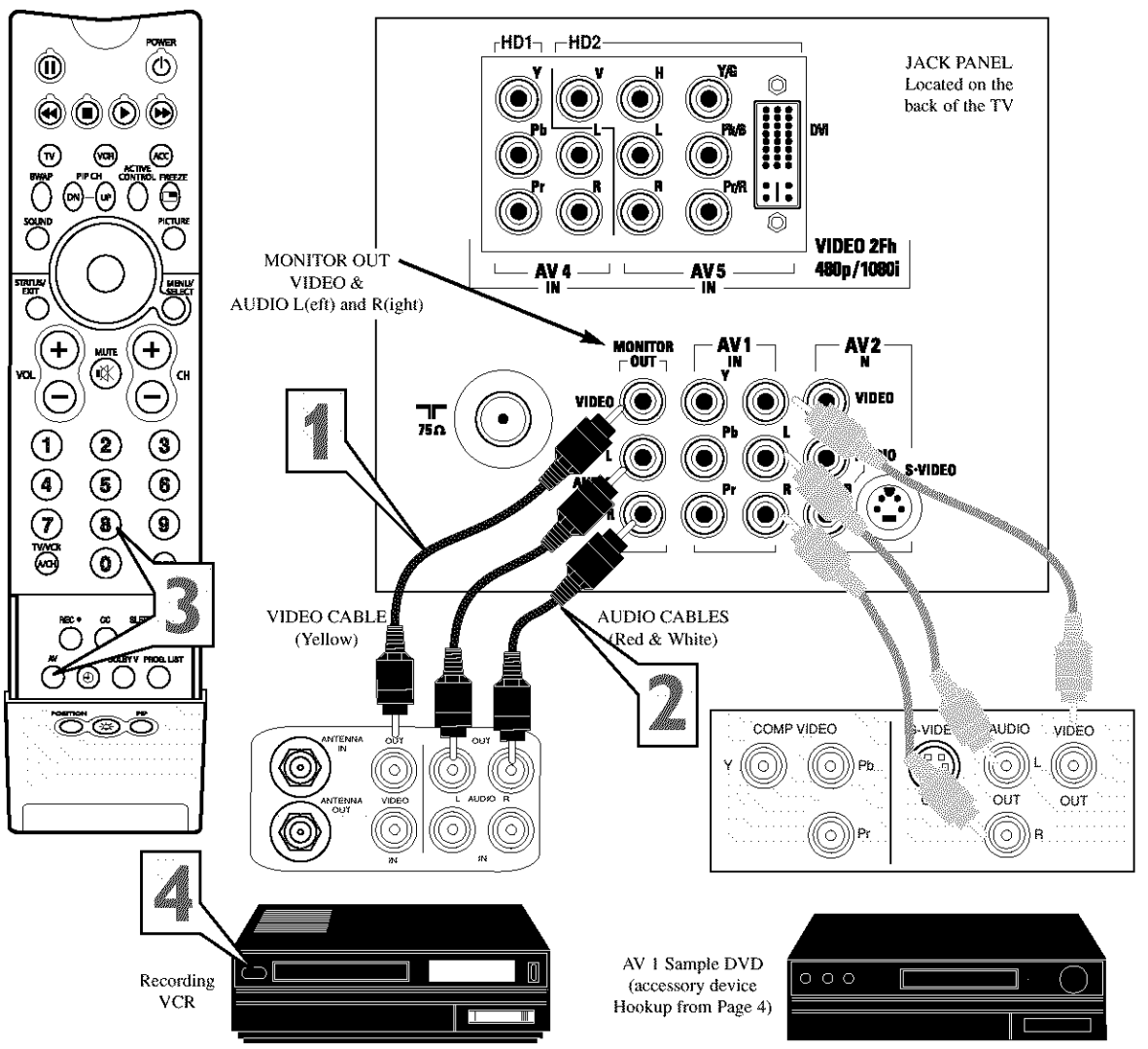
1. **Connect one end of the yellow Video Cable** to the Monitor Out VIDEO plug. Connect the other end to the VIDEO IN plug on the VCR.

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

3. **Tune the TV to the program** channel you wish to record by **pressing the AV or NUMBERED buttons.**

   Note: Once selected be sure to leave the TV channel tuned to the desired program until the complete recording is finished.

4. **Turn the recording VCR ON,** insert a blank VHS tape and it's ready to record the channel program you selected previously in step #3.



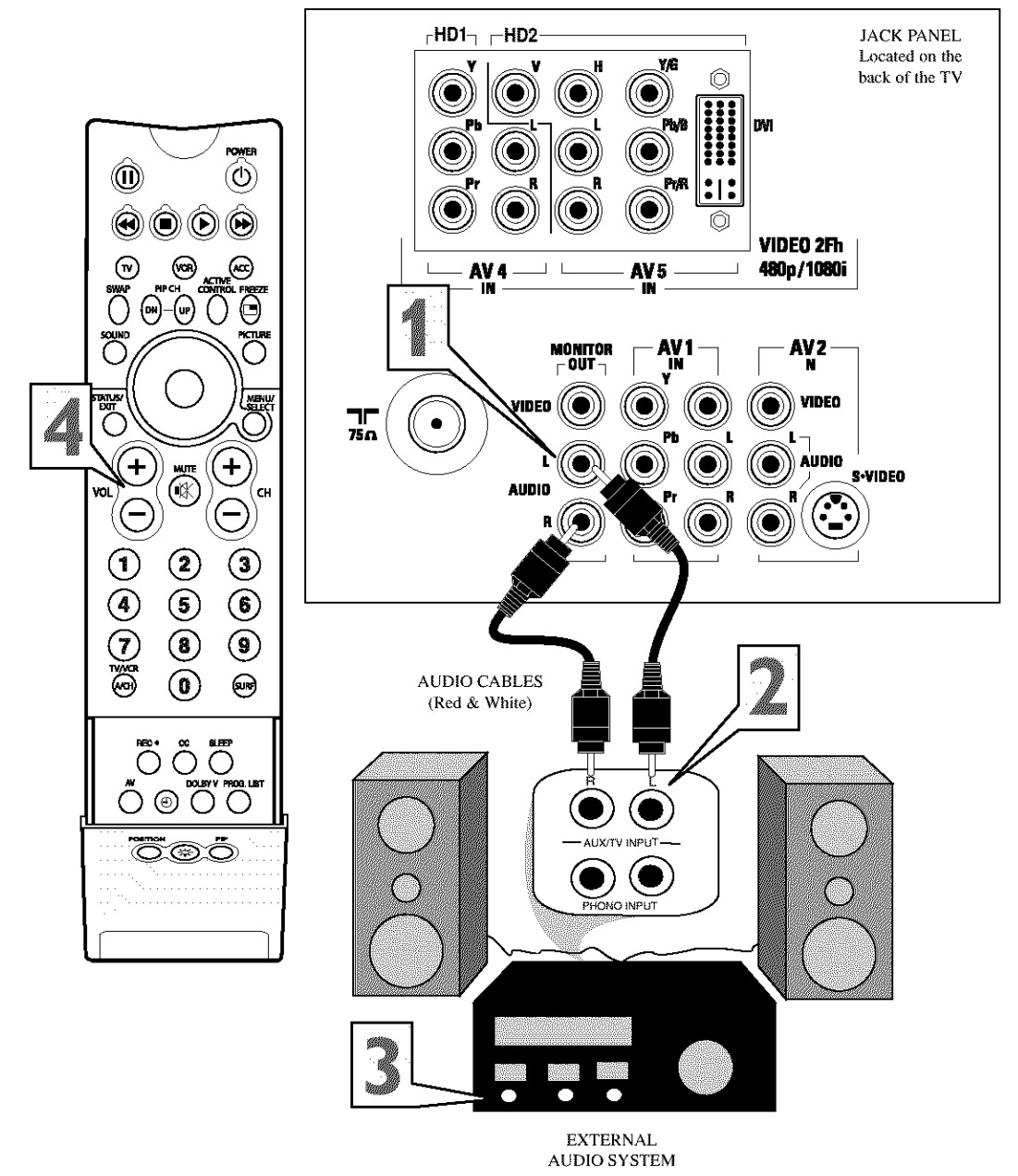
MONITOR OUTPUT JACKS EXTERNAL AUDIO SYSTEM

The Audio Output jacks are great for connecting to an external audio system or a set of external speakers. This will enhance the sound coming from the television to improve your viewing and listening experience.

For Audio System Connection:

1. **Connect one end of the R(ight) and L(eft) Audio Cables (red and white)** to the AUDIO OUT (Left and Right) jacks on the television.

2. **Connect the other ends of the R(ight) and L(eft) Audio Cables (red and white)** to the Audio Left and Right Input jacks on the external Audio System.

3. **Turn the Audio System and the TV on.** Adjust the volume coming from the Audio System to a pleasant listening level.

4. You can now adjust the sound level coming from the audio system by **pressing the VOLUME (+) or (–) button** on the TV or remote control.