

Instructions for use



Let's make things better.

PHILIPS MAGNAVOX

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

Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS MAGNAVOX 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 MAGNAVOX warranty.

Owner Confirmation

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

<u>Model</u> 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 MAGNAVOX



Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. 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 MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

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

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 MAGNAVOX product.

Sincerely,



Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS MAGNAVOX 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.

SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- Retain Instructions The safety and operating instructions should be retained for future reference.
- **Heed Warnings** All warnings on the appliance and in the operating instructions should be adhered to.
- Follow Instructions All operating and use instructions should be
- 5. Water and Moisture - The appliance should not be used near water for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
- Carts and Stands The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

- 6B. 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.
- Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- Ventilation The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a builtin installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- **Power Sources** The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

- 11. Power-Cord Protection Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning The appliance should be cleaned only as recommended by the manufacturer.
- Power Lines An outdoor antenna should be located away from power lines.
- 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

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antennadischarge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.

- Non-use Periods The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- 16. Object and Liquid Entry Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- Damage Requiring Service The appliance should be serviced by qualified service personnel when:
 - The power supply cord or the plug has been damaged; or
 - Objects have fallen, or liquid has been spilled into the appliance;
 - C. The appliance has been exposed to rain; or
 - The appliance does not appear to operate normally or exhibits a D. marked change in performance; or
 - The appliance has been dropped, or the enclosure damaged.
- Servicing The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

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.

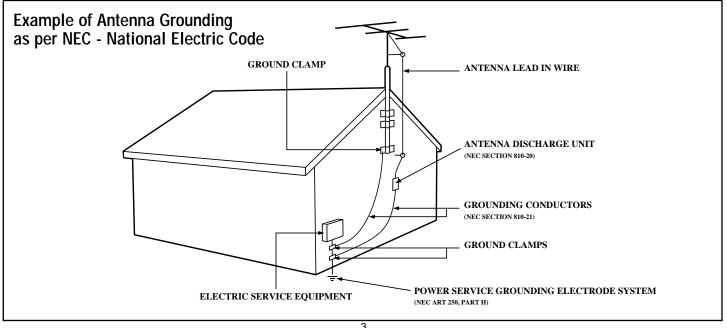


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SET-UP AND QUICK USE GUIDE

Use the simple Set-Up Guide (supplied with your TV information packet) for details on:

- Cable/Antenna Hook-ups
- Auto-Programming of Channels
- Channel Editing
- Basic TV and Remote Control Operation
- Tuner Settings
- External Input Naming

 $SmartPicture^{TM}, SmartSound^{TM}, SmartSurf^{TM}, and SmartLock^{TM} \ are \ all \\ registered \ trademarks \ of \ Philips Consumer \ Electronics \ Company.$

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FEATURES

SmartLockTM feature allows you to block the viewing of certain channel or external audio/video connections where you might not want your children viewing inappropriate material.

Infrared Remote Control works your TV set, VCR, and a variety of wireless remote control Cable Converters (Satellite Receivers, DBS, etc.).

Standard broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Stereo Ready TV with built-in audio amplifier and twin speaker system for receiving TV programs broadcast in stereo sound.

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

Automatic Programming of Channels for quick and easy selection of favorite stations available in your area.

Onscreen Features (in either English, French, or Spanish) show helpful messages for setting of TV controls

Audio/Video Jackpanel for direct connections with VCRs (or other video accessories) providing quality TV picture and sound playback.

On Timer automatically turns the TV ON at a preset time, and channel.

Sleep-Timer automatically turns the TV OFF at preset times.

SmartPictureTM allows you to change the picture settings (color, tint, contrast, etc.) for various types of programming, such as Personal, Sports, Movies, or Weak Signals, with the push of one button.

SmartSoundTM controls the sudden volume changes during program changes and commercials. It eliminates the peaks and valleys in the TV's sound and creates one pleasant listening level. You also may tailor the SmartSound setting to the type of program you are watching (Music, Theatre, etc.).

Picture-In-Picture (PIP) allows you view to different programs (or picture sources) on the TV screen at the same time. PIP will also let you swap the pictures, move the PIP picture to any of the four corners, and even freeze the picture until you shut it off.

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

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 which need to be properly disposed.

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

Please find out about the local regulations on how to dispose of your old television, batteries, and packing materials whenever you replace existing equipment.

How to Adjust the TV Picture

To adjust your TV picture controls, select a channel and follow the steps shown below:

(BEGIN)

Press the MENU button on the remote to display the onscreen menu.

Press the CURSOR UP ➤ or

DOWN ■ buttons until the word

BRIGHTNESS is highlighted. (Or,
COLOR, PICTURE, SHARPNESS,
TINT, COL. TEMP. depending on
the adjustment you want to make.)

Press the CURSOR RIGHT ►►

3 or the CURSOR LEFT ←

buttons to increase or decrease the brightness of the picture.



SMART HELP

BRIGHTNESS Press the

■ ➤ or ◀ buttons until darkest
parts of the picture are as bright as you
prefer.

<u>COLOR</u> Press the ▶▶ or ◀◀ buttons to add or eliminate color.

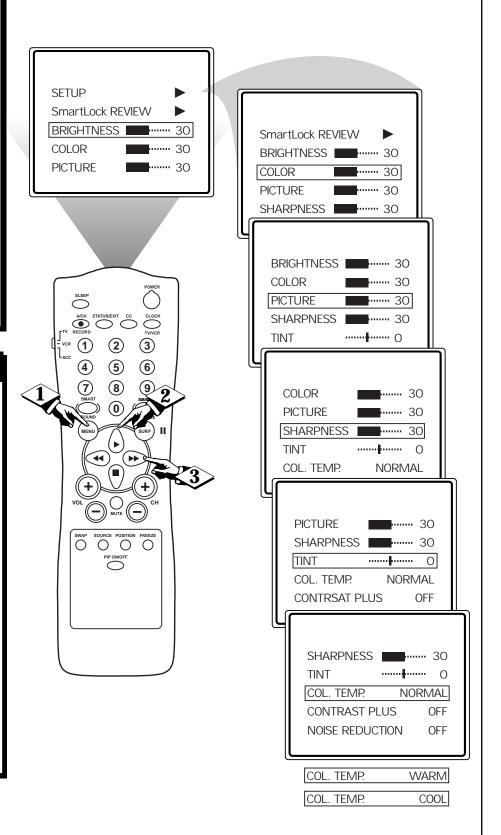
<u>PICTURE</u> Press the ▶▶ or ◀◀ buttons until lightest parts of the picture show good detail.

SHARPNESS Press the ▶▶ or ◀◀ buttons to improve detail in the picture.

<u>TINT</u> Press the ▶▶ or ◀◀ buttons to obtain natural skin tones.

COLOR TEMP Press the ▶▶ or ◀◀ buttons to select NORMAL, COOL, or WARM picture preferences. (NORMAL will keep the whites, white; COOL will make the whites, bluish; and WARM will make the whites, reddish.)

The onscreen menu will time out and disappear from the screen when you finish, or you can press the STATUS/EXIT button to clear the menu from the screen.



ACTIVATING THE CONTRAST PLUS (BLACK STRETCH) CONTROL

The Contrast Plus (Black Stretch) feature helps to "sharpen" the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.

(BEGIN)

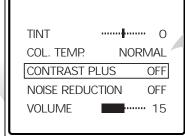
- Press the MENU button on the remote to display the onscreen menu.
- 2 Press the CURSOR UP ▶ or CURSOR DOWN buttons until the words CONTRAST PLUS are highlighted.
- 3 Press the CURSOR RIGHT

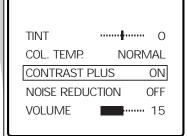
 ▶ or CURSOR LEFT buttons to activate or deactivate the

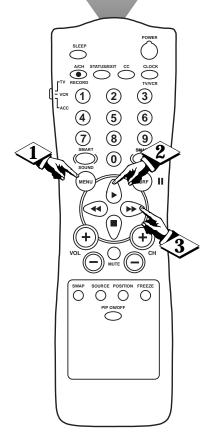
 Contrast Plus (Black Stretch) feature.

Remember: The onscreen menu will disappear in a few seconds after you have finished your adjustment.

SMART HELP







ACTIVATING THE NOISE REDUCTION (PICTURE) CONTROL

For reasons such as poor cable reception, the picture can sometimes appear slightly "speckled" (or signal noise shown in the picture). The NOISE REDUCTION control can help eliminate this type of interference and improve the quality of the picture.

BEGIN

Press the MENU button on the remote to display the onscreen menu.

2 Press the CURSOR UP ▶ or CURSOR DOWN ■ button until the words NOISE REDUCTION are highlighted.

3 Press the CURSOR RIGHT

▶▶ or CURSOR LEFT ◀◀ buttons to activate or deactivate the

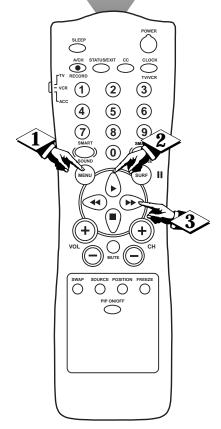
Noise Reduction Feature.



SMART HELP

Remember: The onscreen menu will disappear in a few seconds after you have finished your adjustment.

"Noise" Reduction is a video adjustment feature that affects the picture quality of the TV not the sound.



SETTING THE TV'S CLOCK

Your television comes with an onscreen clock. During normal operation the clock appears on the screen when the STATUS/EXIT button is pressed or when a channel change occurs.

(BEGIN)

- Press the CLOCK button on the remote to display the onscreen CLOCK menu.
- 2 Press the CURSOR UP ➤ OR CURSOR DOWN buttons until the words SET CLOCK are highlighted.
- 3 Enter the current time using the NUMBERED buttons. If the first number is a single digit first enter a zero then the digit (i.e., press "0", then press "8").
- Press the CURSOR RIGHT

 → or CURSOR LEFT ← but
 tons to set either AM or PM time.

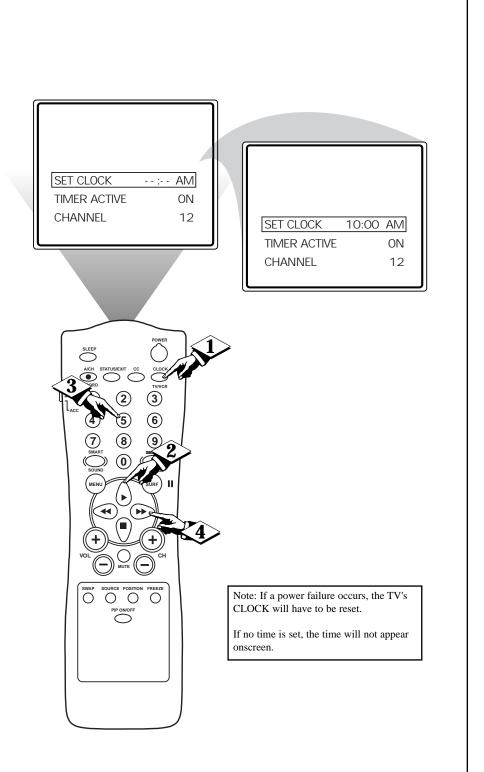
Note: The CLOCK onscreen menu can also be accessed through the main menu by pressing the MENU button; then scrolling up/down with the CURSOR UP ▶ or CURSOR DOWN ■ buttons until the word CLOCK is highlighted. Press the CURSOR RIGHT ▶▶ button to activate the CLOCK menu and follow the steps above to set the time.



SMART HELP

Remember: Be sure to press "0" first and then the hour number for single digit entries.

To clear the onscreen menu press the STATUS/EXIT button, or wait a few seconds after you have finished your adjustment and the menu will automatically disappear from the screen.



ACTIVATING THE TV'S ON TIMER CONTROL

Just like an alarm clock you can set the TV to turn itself on at the same time everyday.

BEGIN

1 Press the CLOCK button to display the Clock onscreen menu.

2 Press the CURSOR UP ▶ or CURSOR DOWN ■ button until the words TIMER ACTIVE are highlighted.

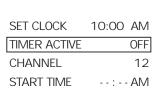
3 Press the CURSOR RIGHT
b or CURSOR LEFT button to select ON (if activating) or OFF (if deactivating) the Timer control.

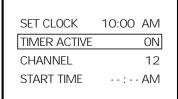


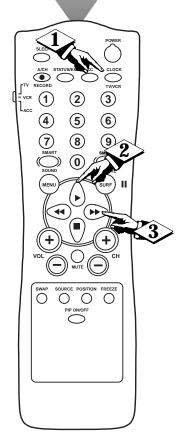
SMART HELP

Remember: Be sure to set the clock to the current time, then set the time you want the television to turn on using the START TIME control as described on page 12.

The onscreen menu will time out and disappear from the screen when you finish, or you can press the STATUS/EXIT button to clear the menu from the screen.







ACTIVATING THE START UP CHANNEL

Used along with the Clock features, you can select a specific channel that the television will tune to when the Timer Active control is turned ON.

(BEGIN)

Press the CLOCK button to display the Clock onscreen menu.

2 Press the CURSOR UP ▶ or CURSOR DOWN ■ button until the word CHANNEL is highlighted.

3 Press the number buttons to enter the start up channel you would like the television to start on.

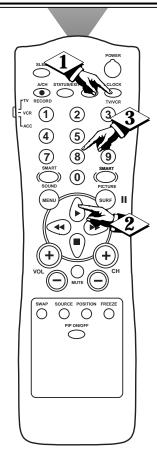


SMART HELP

Remember: Be sure to set the Timer Active control to ON.

The onscreen menu will time out and disappear from the screen when you finish, or you can press the STATUS/EXIT button to clear the menu from the screen.

SET CLOCK 10:00 AM
TIMER ACTIVE ON
CHANNEL 12
START TIME --:-AM



SETTING THE TV'S START UP TIME

Used along with the Clock feature, you can select a specific time the television will turn on when the Timer Active control is turned ON.

BEGIN

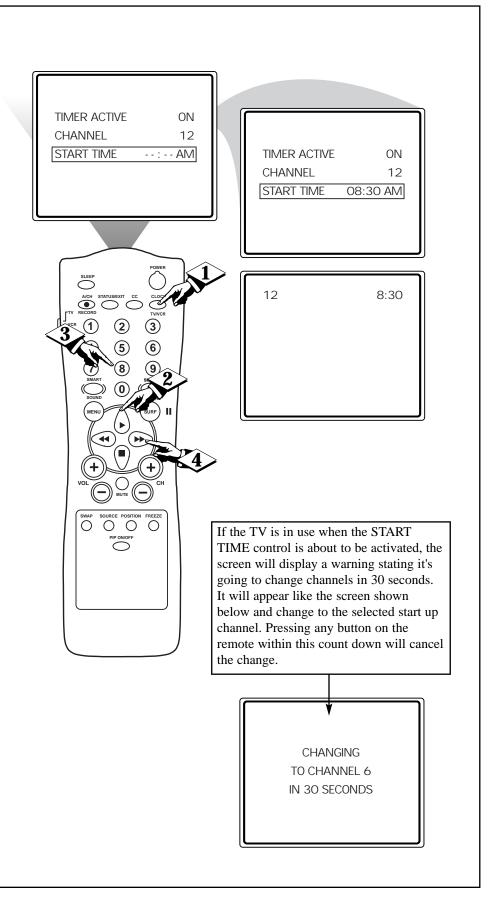
- Press the CLOCK button to display the Clock onscreen menu.
- 2 Press the CURSOR UP ▶ or CURSOR DOWN button until the words START TIME are highlighted.
- TV using the NUMBERED buttons. If the first number is a single digit first enter a zero then the digit (i.e., press "0", then press "8").
- Press the CURSOR RIGHT

 | ▶ or CURSOR LEFT ← but
 tons to set either AM or PM time.



SMART HELP

Remember: Be sure to set the Timer Active to ON.



USING THE CLOSED CAPTION CONTROL

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

BEGIN

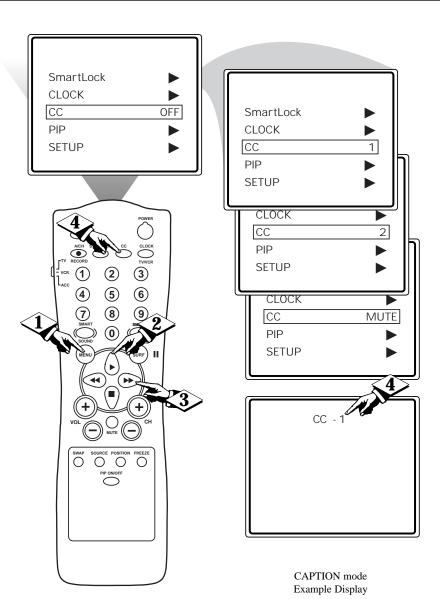
- 1 Press the MENU button on the remote to display the onscreen menu.
- 2 Press the CURSOR UP ▶ or CURSOR DOWN button until the word CC (Closed Caption) is highlighted.
- Press the CURSOR RIGHT
 button to select the CLOSED CAPTION option you want (OFF, 1, 2, or MUTE). Dialogue (and descriptions) for the action on the captioned TV program will appear onscreen.
- NOTE: You can also set the Closed Caption by **pressing the CC button** on the remote. When pressed repeatedly the screen will display the options: CC-OFF, CC-1, CC-2, or CC-MUTE.



SMART HELP

Remember: The onscreen menu will time out and disappear from the screen when you finish, or you can press the STATUS/EXIT button to clear the menu from the screen.

NOTE: Not all TV programs and product commercials are made for broadcast with Closed Caption (CC) information included. Neither are all Closed Caption modes (CC-1, or CC-2) necessarily being used by a broadcast station during the transmission of a closed caption program. Refer to your area's TV program listings for the stations and times of Closed Caption shows.



NOTE: The CC-MUTE option can be used to set the TV to turn the Closed Caption mode "ON" whenever the MUTE button on the remote is pressed. This activates the CC-1 option. MUTE will appear smaller in the upper center of the screen.



USING 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 screeching in your ears? Well, your TV can save you all that trouble by automatically turning itself off.

(BEGIN)

Press the SLEEP button on the remote control and the SLEEP timer will appear on the screen.

2 Press the SLEEP button

repeatedly to pick the amount of time (in 15 minute increments up to 60 minutes; then 30 minute increments up to 120; then 60 minute increments up to 240) before the TV will turn itself off.

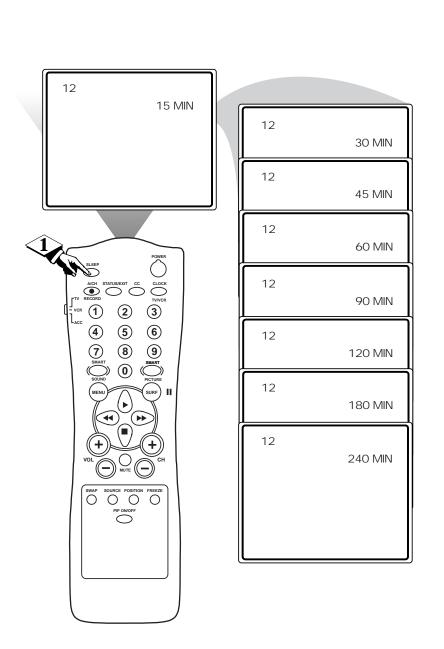
An onscreen count down will appear during the last minute before the TV shuts itself off.



SMART HELP

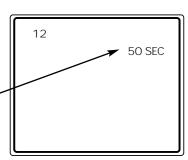
Remember: The SLEEP
TIMER control can also be set within the TV's main menu

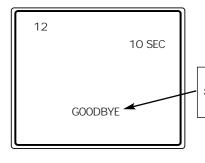
The onscreen menu will time out and disappear from the screen when you finish, or you can press the STATUS/EXIT button to clear the menu from the screen.



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

Pressing any button on the remote during this count down will cancel the SLEEP timer setting.





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

Understanding the SmartLocktm Control



The SmartLock feature is an integrated circuit that receives and processes data sent by broadcasters, or other program providers, that contain program content advisories. When programmed by the viewer, a TV with SmartLock 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 viewing children may watch.

Over the next few pages you'll learn how to block channels and certain rated programming. Below is a brief explanation of some terms and ratings you will find in the SmartLock feature.

SmartLock offers various BLOCKING OPTION controls from which to choose:

MASTER DISABLE: This is what might be called the "master switch" for SmartLock. When in the ON position, ALL blocking/censoring is turned off (or disabled). When in the OFF position, ALL blocking based on specifically blocked settings will take place.

BLOCK UNRATED: ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to ON and the MASTER DISABLE feature is set to OFF.

BLOCK NO RATINGS: ALL programming with NO content advisory data can be blocked if this feature is set to ON and the MASTER DISABLE feature is set to OFF.

After an access code has been programmed, you can block up to 5 individual channels. But more than just blocking channels, certain blocking options exist which will block programming based on ratings patterned by the Motion Pictures Association of America and TV broadcasters. (See description of ratings on this page.)

G	OFF		
PG	OFF		
PG-13	OFF		
R	ON		
NC-17	ON		
Χ	ON		

Movie Ratings

(MOTION PICTURE ASSOCIATION OF AMERICA)

G: General Audience - All ages admitted. 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 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 is programming is specifically designed for adults. Anyone under the age of 17 should only view this programming 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-Y	OFF		
TV-Y7	>		
TV-G	OFF		
TV-PG			
TV-14	•		
TV-MA	>		

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 age 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 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).



UNDERSTANDING THE SMARTLOCKTM CONTROL (ACCESS CODE)

Over the next few pages you'll learn how to block channels and get a better understanding of the rating terms for certain programming.

First, let's start by learning how to set a personal access code:

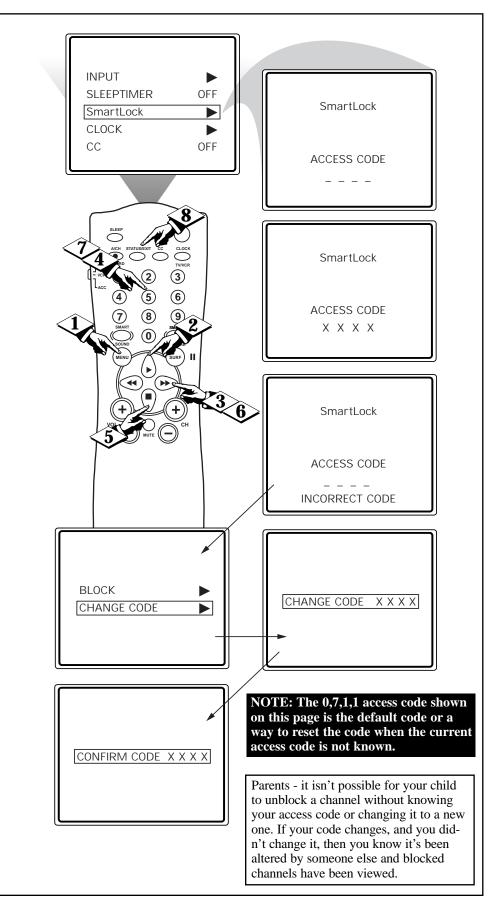
(BEGIN)

- Press the MENU button on the remote to display the onscreen menu.
- 2 Press the CURSOR UP ▶ or CURSOR DOWN buttons until the words SmartLock are highlighted.
- Press the CURSOR RIGHT

 button to display the
 SmartLock Access Code screen.
- 4 Using the NUMBERED buttons, enter 0, 7, 1, 1. "XXXX" appears on the Access Code screen as you press the numbered buttons. "INCORRECT CODE" will
 - "INCORRECT CODE" will appear on the screen, and you will need to enter 0, 7, 1, 1 again.
- 5 Press the CURSOR DOWN button until the words CHANGE CODE are highlighted.
- Press the CURSOR RIGHT

 button to change your personal Access Code.
- 7 "Next enter a "new" 4 digit code using the NUMBERED buttons. The screen will then ask you to confirm the code you just entered. Enter your new code again. "XXXX" will appear when you enter your new code.
- 8 Press the STATUS/EXIT button after the new code has been entered to set the code in the TV's memory.





UNDERSTANDING THE SMARTLOCKTM CONTROL (BLOCK CHANNEL)



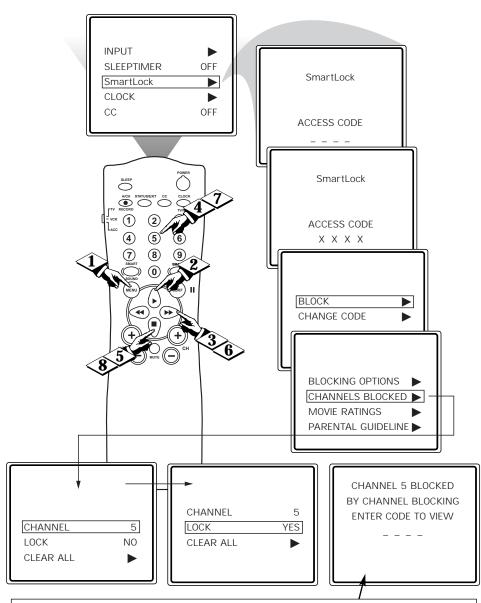
After your personal access code has been set (see previous page), you are now ready to select the channels you want to block out or censor.

(BEGIN)

- Press the MENU button on the remote to show the onscreen menu.
- 2 Press the CURSOR UP ▶ or CURSOR DOWN button until the words SmartLock are highlighted.
- Press the CURSOR RIGHT

 button to display the
 SmartLock Access screen.
- 4 Enter the correct access code number. "XXXX" shows on the Access Code display as you press the NUMBERED buttons.
- 5 Press the CURSOR UP ▶ or DOWN buttons until the word BLOCK is highlighted. Press the CURSOR RIGHT ▶ button then highlight CHANNELS BLOCKED.
- With CHANNEL highlighted, use the NUMBERED buttons to enter the channel number you wish to block.
- 8 Use the CURSOR DOWN ■
 button to highlight the word
 LOCK, then press the CURSOR
 RIGHT ▶ button to select YES
 (block) or NO (do not block). The
 channel chosen is now blocked from
 viewing.

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



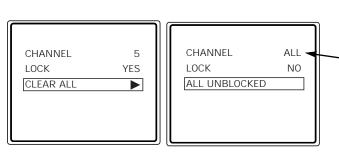
When a blocked channel is viewed, this is what the screen will display. To view the blocked channel, simply enter the current access code. Note: Once the access code is entered ALL blocked channels will be viewable until the TV is powered off. Once the set is turned off and then back on the previously blocked channels will again be blocked.

To clear blocked channels follow the steps below:

Press the CURSOR DOWN ■ button until the words CLEAR ALL are highlighted, then press the CURSOR RIGHT ▶ button.

The screen will read "ALL UNBLOCKED" for a moment. At this point ALL the previously blocked channels will be unblocked.





Note: When the CLEAR ALL option is selected, the CHANNEL option will display ALL.

If at this point if you change the LOCK option to YES, *ALL* channels will be blocked from viewing.



Understanding the SmartLockTM Control (Blocking Options)

SmartLock offers the viewer other blocking features as well. With these Blocking Option features, the censoring can be turned ON or OFF.

BEGIN

- Press the MENU button on the remote to display the onscreen menu.
- 2 Press the CURSOR UP ▶ or CURSOR DOWN buttons until the words SMART LOCK are highlighted.
- Press the CURSOR RIGHT

 bb button to display the

 SmartLock Access Code screen.
- 4 Using the NUMBERED buttons on the remote, enter your personal Access Code.
- With the word BLOCK highlighted, Press the CURSOR RIGHT ▶▶ button.
- 6 Scroll the menu using the
 CURSOR UP ▶ or CURSOR
 DOWN buttons until the words
 BLOCKING OPTIONS are highlighted.
- 7 Press the CURSOR RIGHT

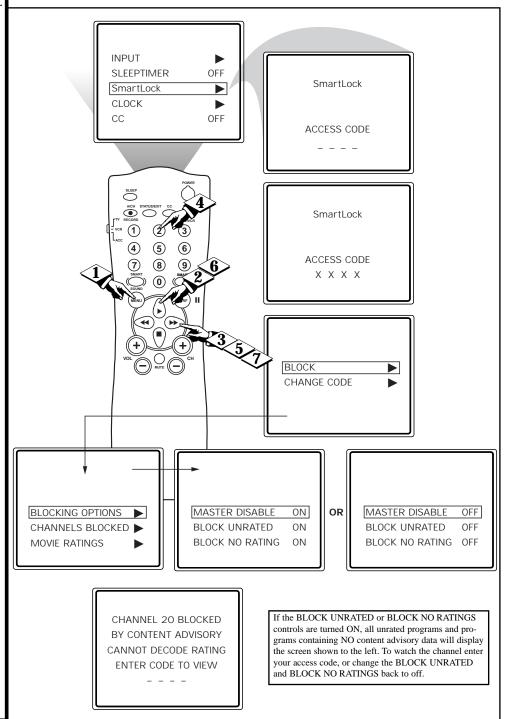
 ▶ button to display the

 Blocking Options (MASTER

 DISABLE, BLOCK UNRATED,

 or BLOCK NO RATING). When
 highlighted, each feature can be
 turned ON or OFF using the

 CURSOR RIGHT ▶ or CUR
 SOR LEFT ◀ buttons on the
 remote.



BLOCKING OPTIONS:

MASTER DISABLE: This is what might be called the "master switch" for SmartLock. When in the ON position, ALL blocking/censoring is turned off (or disabled). When in the OFF position, ALL blocking based on specifically blocked settings will take place.

BLOCK UNRATED: ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to ON and the MASTER DISABLE feature is set to OFF.

BLOCK NO RATINGS: ALL programming with NO content advisory data can be blocked if this feature is set to ON and the MASTER DISABLE feature is set to OFF.

Understanding the SmartLock $^{\text{TM}}$ Control (Movie Ratings)



There are two types of program ratings within the SmartLock feature. One is based on the Movie Industry ratings while the other is based on the TV Industry ratings. Both can be used to block or censor programming that has been rated in either manner.

Let's first look at the Movie Rating options of SmartLock:

(BEGIN)

- Press the MENU button on the remote to display the onscreen menu.
- Press the CURSOR UP ▶ or CURSOR DOWN buttons until the words SMART LOCK are highlighted.
- 3 Press the CURSOR RIGHT

 ▶ button to display the

 SmartLock Access Code screen.
- Using the NUMBERED buttons on the remote, enter your Personal Access Code.
- With the word BLOCK highlighted, Press the CURSOR RIGHT >> button.
- 6 Scroll the menu using the
 CURSOR UP ▶ or CURSOR
 DOWN buttons until the words
 MOVIE RATINGS are highlighted
- Press the CURSOR RIGHT

 button to display the MOVIE

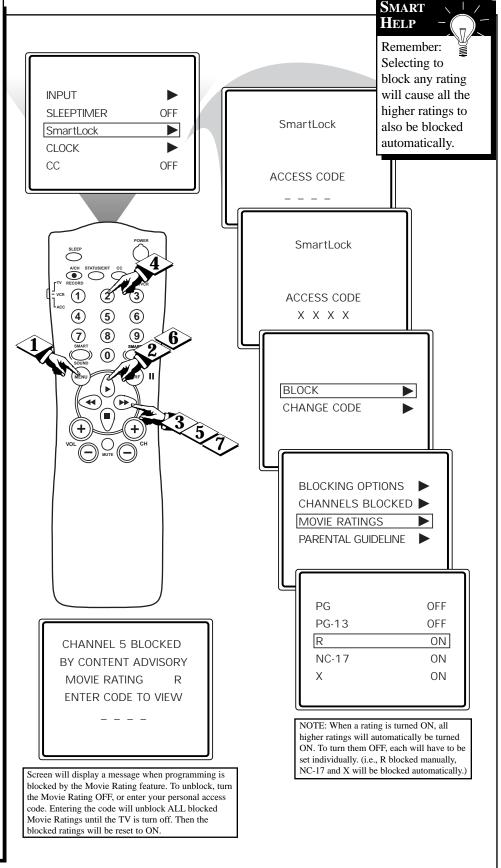
 RATINGS (G, PG, PG-13, R,

 NC17, or X).

When highlighted, all these options can be turned **ON** (which will allow blocking) or **OFF** (which will allow viewing).

Use the CURSOR RIGHT ▶▶ or CURSOR LEFT ◀◀ buttons on the remote to turn the rating option ON or OFF.







NDERSTANDING THE SMARTLOCKTM CONTROL (PARENTAL GUIDELINES)

his portion of the SmartLock **I** features cover program ratings based on the TV Industry rating system. This is know as Parental Guideline within SmartLock.

After selecting the SmartLock feature and entering your personal access code, the BLOCK/CHANGE CODE screen appears;

(BEGIN)

- 1 With the word **BLOCK** highlighted, Press the CURSOR **RIGHT** ▶▶ button.
- 2 Scroll the menu using the **CURSOR UP** ▶ or **CURSOR DOWN buttons** until the words **PARENTAL GUIDELINES** are highlighted.
- 3> Press the CURSOR RIGHT **button** to display the Parental (TV) Guidelines (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA).

When highlighted, the TV-Y and TV-G can be turned ON (which will allow blocking) or **OFF** (which will allow viewing), of these rated programs.

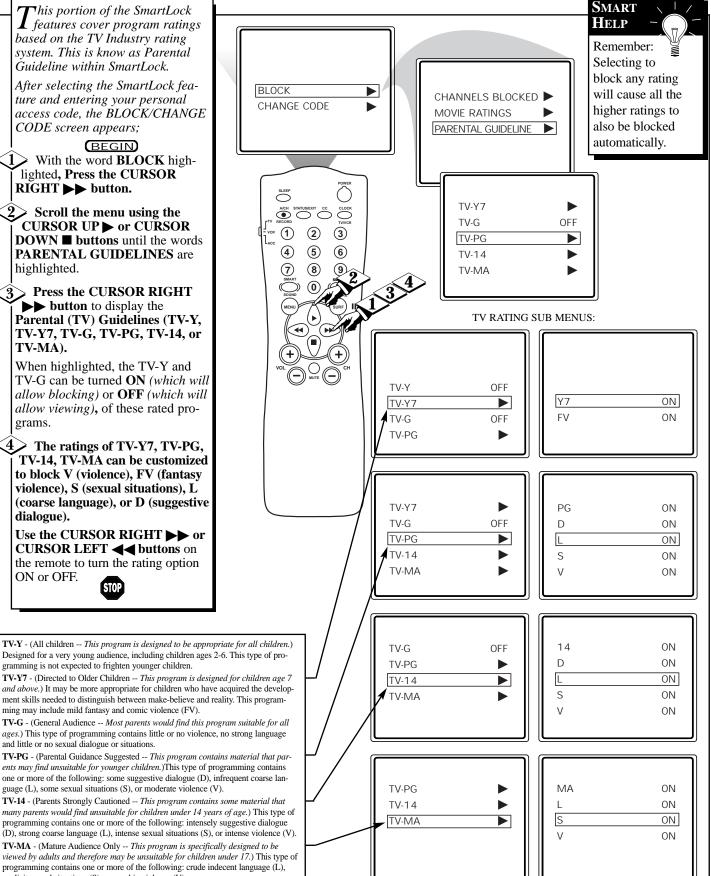
4> The ratings of TV-Y7, TV-PG, TV-14, TV-MA can be customized to block V (violence), FV (fantasy violence), S (sexual situations), L (coarse language), or D (suggestive dialogue).

Use the CURSOR RIGHT ▶▶ or **CURSOR LEFT ◄ buttons** on the remote to turn the rating option ON or OFF.

gramming is not expected to frighten younger children.

ming may include mild fantasy and comic violence (FV).

and little or no sexual dialogue or situations.



guage (L), some sexual situations (S), or moderate violence (V).

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: crude indecent language (L), explicit sexual situations (S), or graphic violence (V).

UNDERSTANDING THE SMARTLOCKTM CONTROL (REVIEW SCREEN)



Now that you've learn how to block channels or censor your viewing using the Movie Ratings or Parental (TV) Guidelines let's review what you've done. The SmartLock Review feature allows you to see what has been blocked. Whenever the Menu button is pressed the onscreen menu will be displayed with the SmartLock Review highlighted.

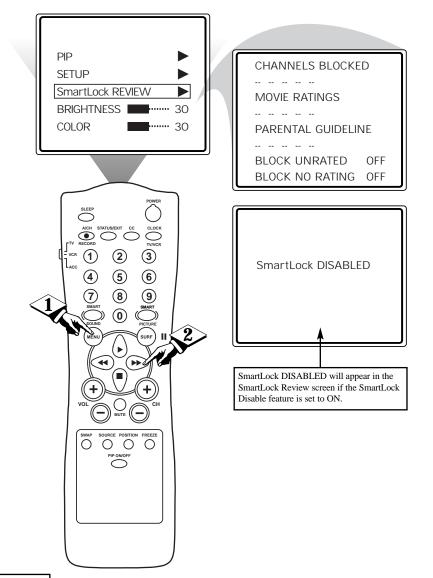
(BEGIN)

Press the MENU button on the remote to show the onscreen menu. SmartLock REVIEW will be highlighted.

Press the CURSOR RIGHT

button and the SmartLock
Review Menu will appear.

This menu will display what channels have been blocked; what Movie Ratings have been blocked; what Parental (TV Ratings) Guideline have been blocked. This review screen will also display that status of Unrated and No Rating settings. If the Master Disable feature has been turned ON, the SmartLock Review screen will display "SmartLock DISABLED."



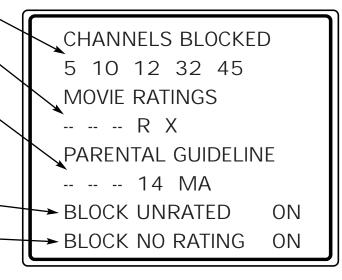
CHANNELS BLOCKED - Shows all blocked channels that where set within the CHANNELS BLOCKED feature. Up to 5 channels may be blocked at one time.

MOVIE RATINGS - Shows all blocked Movie Ratings that were set within the MOVIE RATINGS feature. All or some may be blocked at one time. Note: If a lower rating is blocked; this will automatically cause the higher ratings to be blocked also. (i.e., if R is set to be blocked, X will automatically be blocked also.)

PARENTAL GUIDELINE - Shows all blocked TV Ratings that were set within the PARENTAL GUIDELINES feature. All or some may be blocked at one time. Note: If a lower rating is blocked; this will automatically cause the higher ratings to be blocked also. (i.e., if TV-14 is set to be blocked, TV-MA will automatically be blocked.) Parental Guidelines also have sub ratings for Violence (V), Fantasy Violence (FV), Sexual Situations (S), Coarse Language (L), and Suggestive Language (D). If the main rating is turned off but the sub rating is turned ON, the program will be blocked but the rating will not appear within the SmartLock Review menu.

BLOCK UNRATED - Shows ON or OFF depending on the status of the BLOCK UNRATED feature. Based on the Movie Ratings or Parental (TV) Guidelines.

BLOCK NO RATING - Shows ON or OFF depending on the status of the BLOCK NO RATING feature. Based on programming with NO content advisory data.



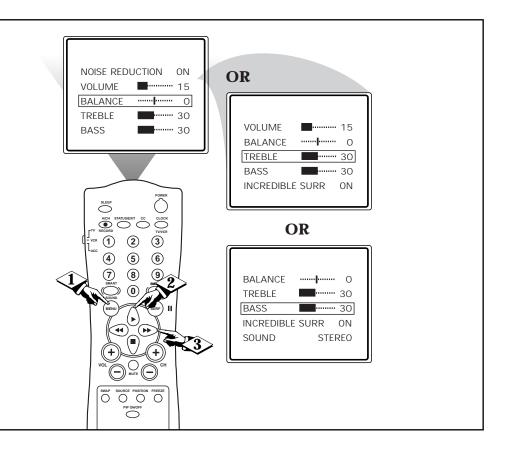
USING THE TREBLE, BASS AND BALANCE CONTROLS

Besides the normal volume level control, your TV also has BALANCE, BASS and TREBLE controls for sound adjustments. The BALANCE control allows the listener to adjust the sound being heard between the right and left TV speakers. The controls work just like the BASS, TREBLE and BALANCE controls on any hi-fi stereo audio system.

BEGIN

- Press the MENU button on the remote to show the onscreen menu.
- 2 Press the CURSOR UP ▶ or CURSOR DOWN buttons to select and highlight the name of the control you wish to change (BAL-ANCE, BASS or TREBLE).
- 3 Use the CURSOR LEFT ◀◀ or RIGHT ▶▶ buttons to adjust the levels of each highlighted control.





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Using the Incredible Surround Feature

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

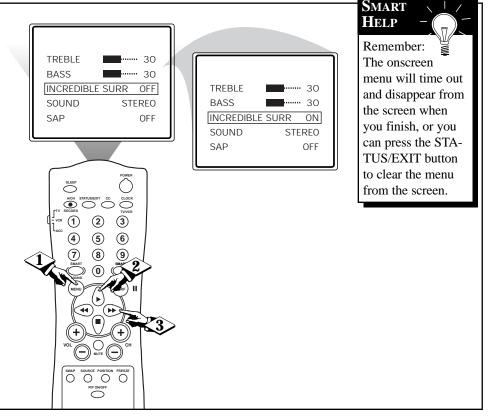
BEGIN

- Press the MENU button on the remote to display the onscreen menu.
- 2 Press the CURSOR UP ▶ or CURSOR DOWN button until the words INCREDIBLE SURR are highlighted.
- 3 Press the CURSOR RIGHT

 ▶ or the CURSOR LEFT

 buttons to turn the Incredible
 Surround control ON or OFF.





USING THE TV VOLUME BAR CONTROL

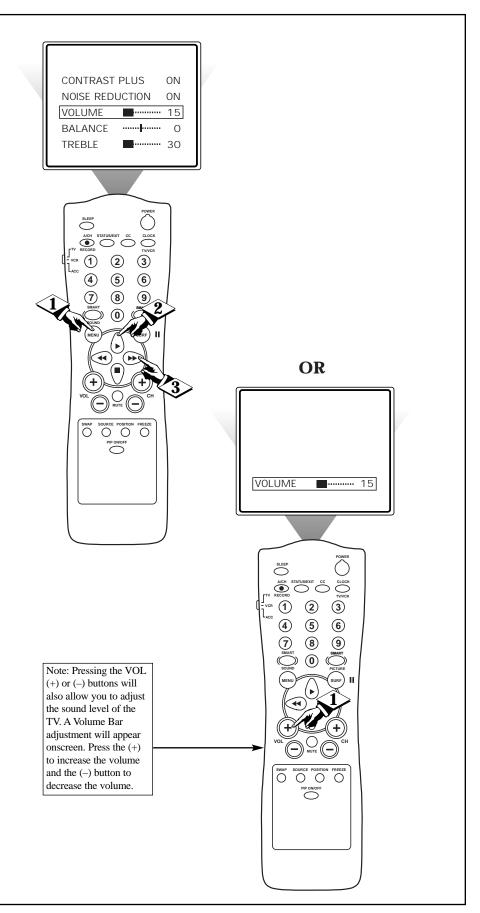
Use the Volume Bar control to see the TV's volume level settings on the TV screen. The Volume Bar will be seen each time the VOLUME buttons (on the TV or remote) are pressed.

BEGIN

- Press the MENU button to display the onscreen menu.
- Press the CURSOR UP ▶ or CURSOR DOWN buttons until the word VOLUME is highlighted.
- Press the CURSOR RIGHT

 button to increase the TV's volume or the CURSOR LEFT
 button to decrease the sound.







How to Set the TV for Stereo Programs

Jour TV can detect a stereo sig-**▲** nal and will set itself automatically so the stereo sound can be heard. However, there may be occasions when you might want to set the TV to mono. The following steps describe how to change the SOUND control:

(BEGIN)

- 1> Press the MENU button on the remote to show the onscreen menu.
- 2> Press the CURSOR UP ▶ or **CURSOR DOWN** ■ **button** until the word SOUND is highlighted.
- 3 Press the CURSOR RIGHT **▶▶** or CURSOR LEFT **◄**◀ **buttons** to choose between STEREO or MONO.

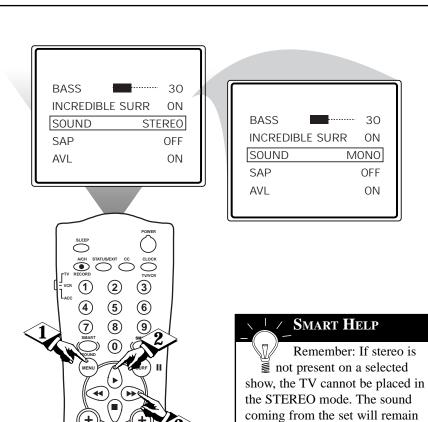
With STEREO selected, the television will reproduce any stereo broadcast signal it receives. Please note that you can force a stereo broadcast signal to MONO, but you cannot force a mono broadcast signal to stereo.



SECOND AUDIO PROGRAM (SAP)

SAP is an additional part of the stereo broadcast system. Sent as a third audio channel SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes, but many experts believe it will be used for foreign language translations of TV shows (or for weather and news bulletins.)

If a 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 (and you will have to reselect the SAP feature.)

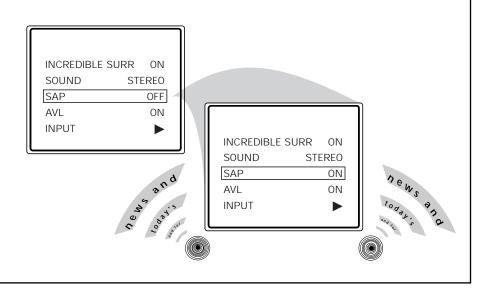


30

ON

OFF

ON



monaural (mono).

How to Use the Input Control (A/V Inputs)



AUDIO/VIDEO INPUTS

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.

(BEGIN)

- Connect the VIDEO (yellow)

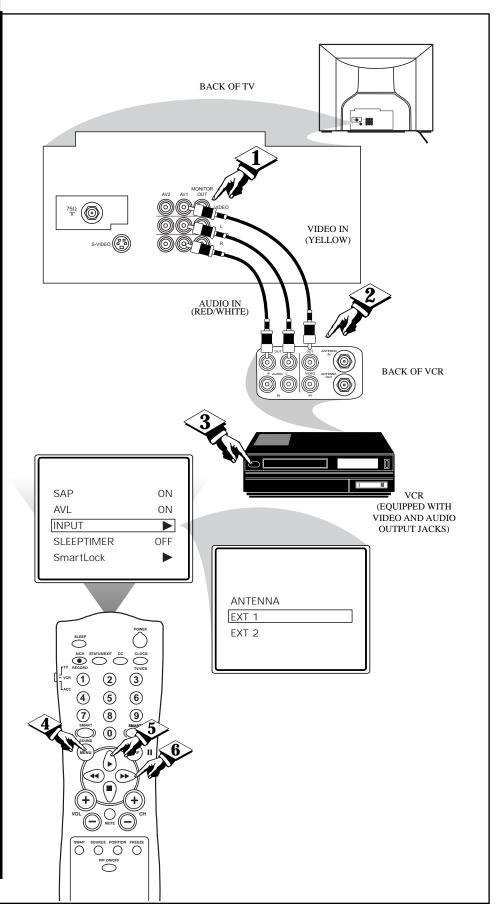
 CABLE to the VIDEO AV1 jack on the back of the TV. Then connect the AUDIO (red and white)

 CABLES to the AUDIO (left and right) AV1 jacks on the rear of the TV.
- Connect the VIDEO (yellow)
 CABLE to the VIDEO OUT jack on the back of the VCR. Then connect the AUDIO (red and white) CABLES to the AUDIO (left and right) OUT jacks on the rear of the VCR.
- Turn the VCR and the TV ON.
- Press the MENU button on the remote to display the onscreen menu.
- 5 Press the CURSOR UP ▲ or CURSOR DOWN buttons until the word INPUT is highlighted.
- 6 Press the CURSOR RIGHT

 ▶ or CURSOR LEFT
 button to display the INPUT
 menu (ANTENNA, EXT 1, EXT
 2). Use the CURSOR UP
 or
 DOWN
 buttons to select. If
 using the Audio/Video AV1
 jacks, select EXT 1. If using the
 Audio/Video AV2 jacks, select
 EXT 2.

Now your ready to place a prerecorded video tape in the VCR and press the PLAY ▶ button.





HOW TO USE THE AUDIO/VIDEO INPUT JACKS

S-VIDEO INPUT

The S(uper)-Video connection on the rear of the television can give you better picture detail and clarity, for the playback of S-VHS VCR tapes, or Digital Video Discs than the normal antenna picture connections.

Note: The accessory device being used must have a S-Video Output to complete this connection. The following steps show the connections to the S-VIDEO and AUDIO IN 2 input jacks.

BEGIN

- Connect the S-VIDEO
 CABLE to the S-VIDEO input
 jack on the rear of the television,
 then the AUDIO (red and white)
 to the AUDIO AV2 (left and right)
 jacks on the rear of the TV.
- Connect the S-VIDEO
 CABLE to the S-VIDEO output jack on the accessory device.
 Then connect the red and white AUDIO CABLES to the AUDIO (left and right) output jacks on the rear of the accessory device.
- Turn the VCR (or Digital Video Disc Player) ON.
- Press the MENU button on the remote to display the onscreen menu.
- Press the CURSOR UP ▲ or CURSOR DOWN buttons until the word INPUT is highlighted.
- 6 Press the CURSOR RIGHT

 ▶ or CURSOR LEFT

 button to display the INPUT menu

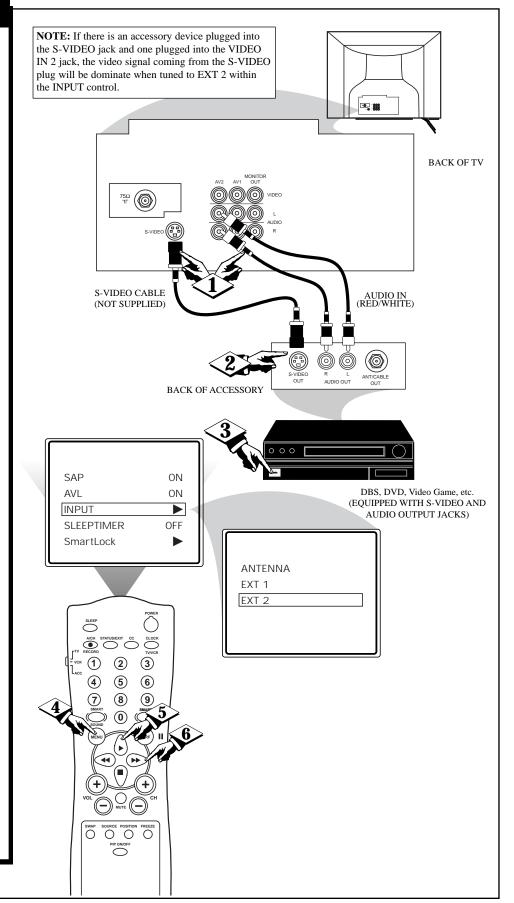
 (ANTENNA, EXT 1, EXT 2). Use
 the CURSOR UP

 or DOWN

 buttons to select EXT 2.

Now your ready to use the accessory device with the S-Video outputs.





USING THE AUDIO/VIDEO OUPUT JACKS



A/V OUTPUTS

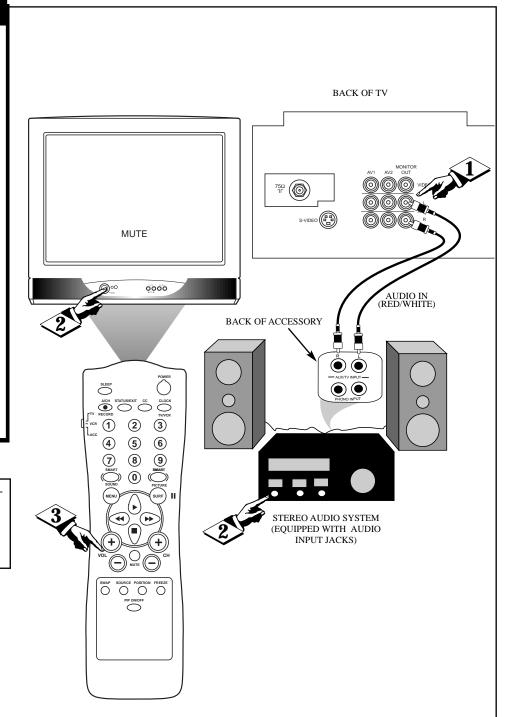
Would you like to hear TV programs through your audio hi-fi system? The TV's Audio output jacks can be used to perform this TV sound option.

(BEGIN)

- Connect the R(ight) and L(eft) AUDIO MONITOR
 OUT jacks on the TV to the R and L Audio Input jacks on you amplifier or sound system. Set the audios system's volume to a normal listening level.
- 2 Turn the TV and the audio system ON.
- You can now adjust the sound level coming from the audio system with the VOLUME (+) or (-) buttons on the remote.



Note: The Video and Audio MONITOR OUT Jacks can be used as a direct connection to a VCR for the recording of programs to video tapes.





USING THE SMARTPICTURETM CONTROL

Whether you're watching a movie or a video game, your TV has automatic video control settings matched for your current program source or content. The SmartPicture feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home. Each SmartPicture setting is preset at the factory to automatically adjust the TV's Brightness, Color, Picture, Sharpness, Tint, and Color Temperature levels.

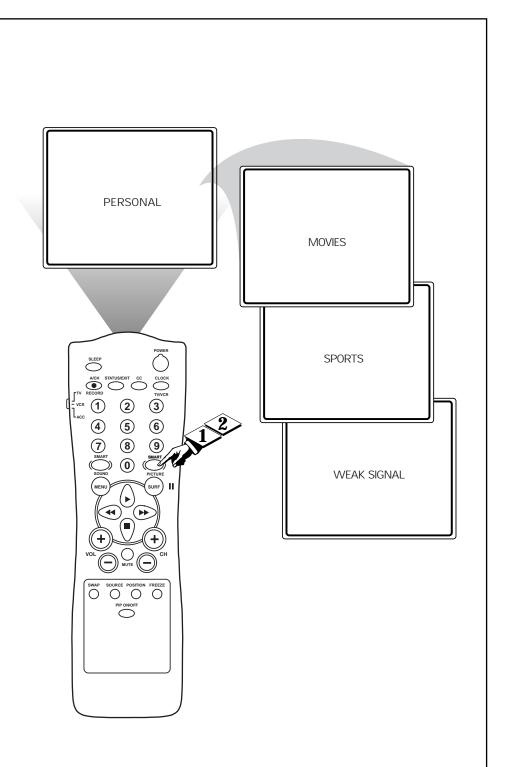
BEGIN

button on the remote control. The current SmartPicture setting will appear in the middle of the screen.

Press the SmartPicture button repeatedly to select either PER-SONAL, MOVIES, SPORTS, or WEAK SIGNAL picture settings.

Note: The PERSONAL setting is the setting that you setup using the PICTURE options within the onscreen menu. This is the only SmartPicture control setting that can be changed. All other settings are setup at the factory during the time of production. If settings are changed while using the Movie, Sports, or Weak Signal selections, the changes you make will become the "new" Personal settings. The Movie, Sports, and Weak Signal settings cannot be changed.





USING THE SMARTSOUNDTM CONTROL



The SmartSound feature allows the listener to select between four different factory set sound options. Personal (which can be set by the user), Theater (for movie viewing), Music (for musical type programming) and Voice (when the program is mainly dialogue). To select any of the options follow the directions below.

(BEGIN)

ton on the remote control. The current SmartSound setting will appear in the middle of the screen.

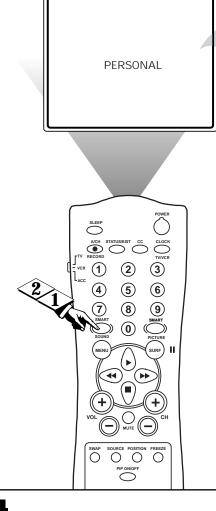
Dutton repeatedly to toggle between the four settings.

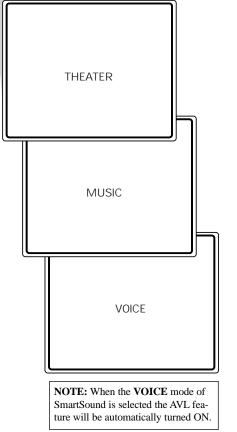
Remember, only the PERSONAL control can be changed by the viewer. This changes the settings in the main onscreen menu's sound controls. All other settings are setup at the factory during the time of production. If settings are changed while using the Theater, Music or Voice selections, the changes you make will become the "new" Personal settings. The Theater, Music and Voice settings cannot be changed.



SMART HELP

Remember, SmartSound works only with the programs coming through the 75 Ω input jack on the rear of the TV (RF audio). It will not control the sound levels for the External connections.





AVL CONTROL

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

SOUND	STERE0
SAP	ON
AVL	OFF
INPUT	EXT 1
SLEEPTIMER	OFF

SOUND	STERE0
SAP	ON
AVL	ON
INPUT	EXT 1
SLEEPTIMER	OFF



USING THE TV'S SMARTSURFTM CONTROL

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 programs that currently interest you. The SmartSurf control allows you set up to eight channels in its quick viewing "list".

(BEGIN)

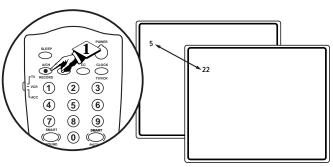
- Press the CHANNEL (+) or (-) buttons (or the NUMBER buttons) to select a channel to add to the SURF list.
- 2 Press the SURF button on the remote while the channel number is still displayed to ADD the channel to the SURF list.
- Repeat steps 1 through 2 to add additional channels (up to 8) to the SURF list.

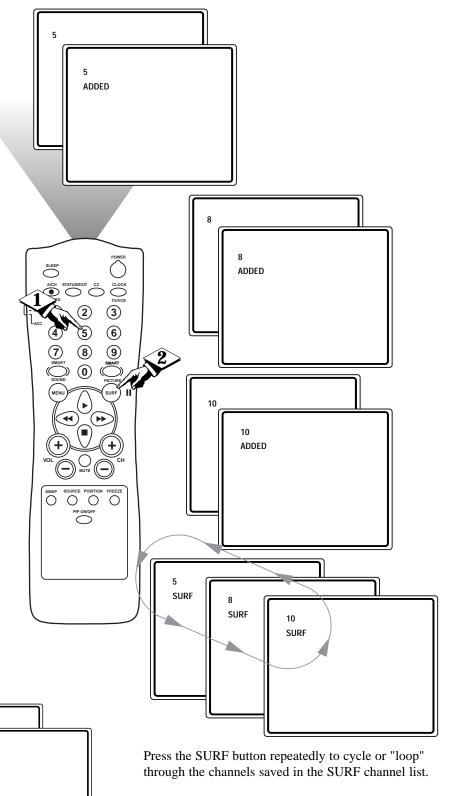
To remove a channel for the SURF list, simply choose the channel with the numbered buttons and press the SURF button while the channel number is still displayed and the screen will read DELETED.



A/CH BUTTON

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





SETTING THE REMOTE CONTROL TO WORK WITH OTHER DEVICES



Your remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable Boxes, Satellite Systems, DBS, etc. However, an easy onetime step may be necessary before the remote will work your VCR.

Try this initial check to see if going on to the following section is necessary.

BEGIN

- Place the TV/VCR/ACC
 Mode Switch in the proper position.
- Point the remote control at the device and press the POWER button.
- 3 Does the remote turn the device ON?

If YES, stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.

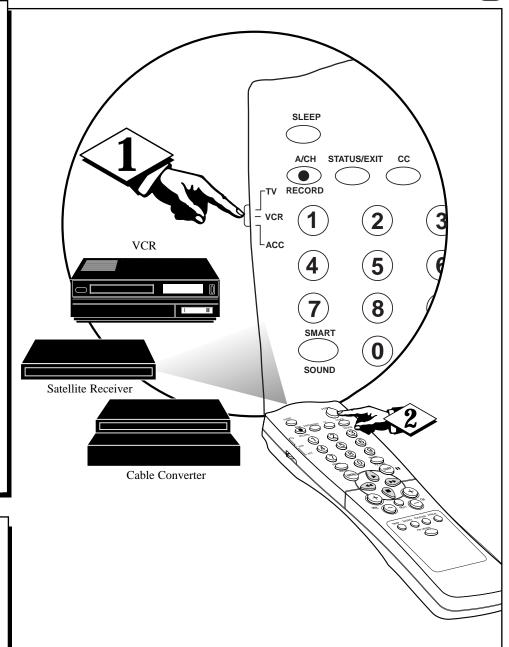
If NO, continue...

First look up a **THREE-DIGIT**remote control number for your
brand of Device before going
through the simple steps on the
following page.

Find your Three-Digit Code on pages 34-35.

SMART HELP

Remember, if more than one number is listed, you may have to try more than the first Three-Digit code given in order to locate your Device's remote code.





SETTING THE REMOTE CONTROL TO WORK WITH OTHER DEVICES

Direct Access Method

Now that you have looked up the three-digit Remote Code Number for your brand of device, you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

(BEGIN)

- Place the TV/VCR/ACC
 Mode Switch in the proper position.
- 2 Press the VCR RECORD button on the remote control and release.
- on the remote within 30 seconds, then release.
- 4 Enter the THREE-DIGIT REMOTE CODE NUMBER for your desired device. The remote is now ready to send commands to the unit.
- Device. Press the POWER button on the remote to turn the unit ON.

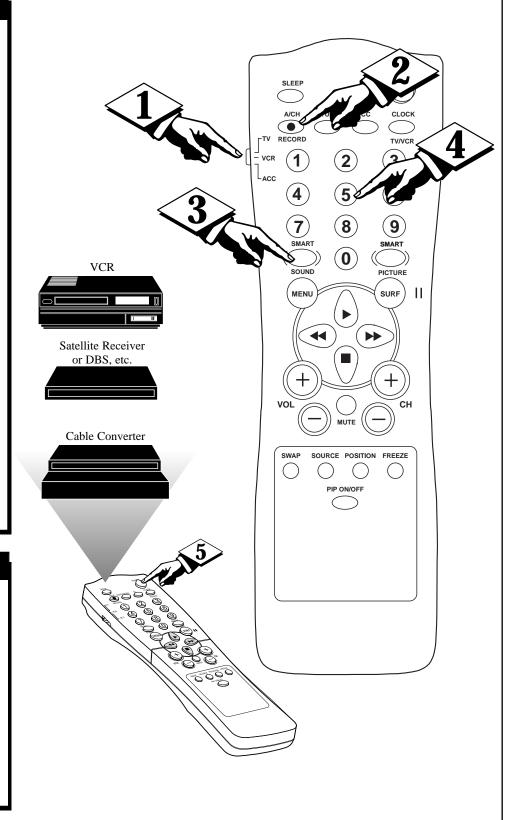


SMART HELP

Remember, if this doesn't work the first time, repeat steps using the same remote code number.

After a second try and the remote does not operate your device, see if there is another three-digit code number (pages 34-35) listed for your device and repeat the steps above using the new number.

If after repeated attempts the code number method does not work you device, try the **SEARCH METHOD** on page 33.



SETTING THE REMOTE CONTROL TO WORK WITH OTHER DEVICES



Search Method

Your TV remote can be set to work various external devices such as VCRs, Cable Boxes, Satellite Receivers, DBS, etc. by what is called the search method of remote control programming. If the "DIRECT ACCESS" code number method (shown on the previous page) did not set your remote to work your accessory device, then follow the easy steps listed below.

Note: The Search Method only works with devices equipped with channel display indicators or capability.

Please read steps 1-4 before beginning.

BEGIN

- Press the POWER button on the device your are attempting to program to turn it ON.
- Place the TV/VCR/ACC
 Mode Switch in the proper position.
- 3 Press the (A/CH) RECORD and the SMART SOUND buttons simultaneously and hold them down.
- The device will begin to change channels after the remote identifies the correct code. When the channels start to change release the VCR RECORD and SMART SOUND buttons. The remote should be ready to operate the device.

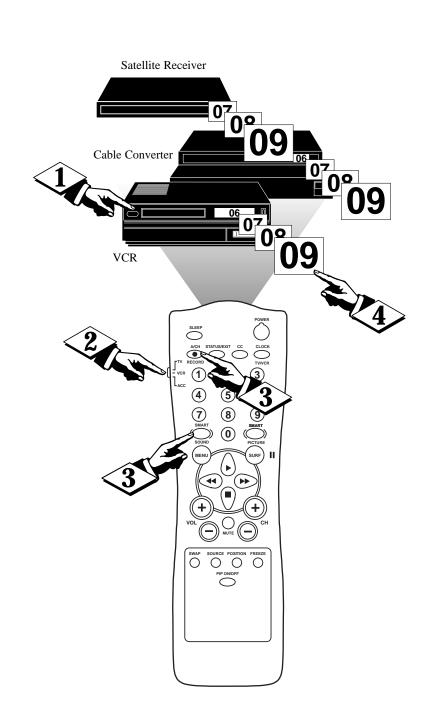


SMART HELP

This method can take up to two minutes to perform.

Don't let the device scan up more than five channels. If you do the remote may pass up the right code and another two minute search cycle will have to be repeated.

If no channel change happens within two minutes, repeat steps 1-4. Should a channel change still not occur, the remote will not work the desired device.





REMOTE CONTROL DIRECT ENTRY CODES

REMOTE	REMOTE	REMOTE
VCR CODE NO.	VCR CODE NO.	VCR CODE NO.
Admiral	Loewe	Sanyo
Advantz	Logik	Saville
Adventure	MEI	Scott
Aiko	MGA	Sears
Aiwa	MGN Technology	
Akai	MTC	Sharp
Akai041, 049, 053, 001, 100, 515 Alba	Magnavox	Shintom
Amercian High	Marta	Shogun
Amstrad		Shoral
Asha	Matsushita	Siemens
Audiovox	Memmorex	Singer
Baird	Memorex	Sinudyne
Beaumark		Sony
Bell & Howell	Metz	
Blaupunkt	Minolta	Sunkel
Brandt	Mitsubishi043, 061, 067, 075, 173, 443	Sunpak
Broksonic	Motorola	Sylvania000, 035, 043, 081, 103, 110
Bush	Multitech	Symphonic
CCE	NAD	TMK
Calix	NEC	Tatung
Canon	Nikko	Teac
Capehart	Nikon	Technics
Carver	Noblex	Teknika
Citizen	Nordmende	Telefunken
Colt	Okano346	Tansal
Combitach	Olympus	Thomas
Craig	Optimus	Thomson
Curtis Mathes	162, 432, 454	Toshiba
Cybermax	Optonica	Totavision
Daewoo	Orion	Towada
Daytron	Panasonic	Unitech
Denon		Universum
Dynatech	Penney	Vactor
Electrophonic		Vactor Research
Emerex	Pentax	Video Concepts
Emerson000, 002, 036, 037, 043, 061	Philco	Videosonic
	Philips	Wards000, 035, 042, 047, 048, 060, 062,
	Pilot	
Ferguson	Pioneer	XR-1000
Fisher	Portland	Yamaha
Fuji	Profax	Zenith
Funai	Profitronic	Zeman
GE	Protec	CABLE REMOTE
Garrard	Pulsar	CONVERTOR CODE NO.
Go Video	Quarter	ABC
Gold Star	Quartz	
Gradiente	Quasar	Aliegio
Grundig	RCA	Andover
HI-Q		Antronix
Harley Davidson	Radio Shack	Archer
Harman/Kardon	Radix	Balcor
Harwood	Randex	British Telecom
Headquarter	Realistic	Cable Star
Hinari		Cablatenna
Hitachi	Ricoh	Cabletime
	Runco	
		Captury
Ingersol	SEG	Century
Jensen	STS	Clyde
KEC	Saba	Colour Voice
KLH	Saisho	Comtec
Kenwood	Salora	Comtronics
Kodak	Samsung	Contec
LXI	Sanky	Cryptovision
Lloyd's	Sansui	Deceat

REMOTE CONTROL DIRECT ENTRY CODES



CABLE	REMOTE	CABLE	REMOTE		REMOTE
CONVERTOR	CODE NO.	CONVERTOR	CODE NO.	Satellite	CODE NO.
Eastern		United Artists		Hirschmann	397, 573
Everquest		United Cable			
Filmnet		Universal	022, 056, 153, 191	Huth	
Focus		Videoway		ITT	
France Telecom		Viewstar		Intervision	
GC Electronics		Visi Cable+		JVC	
GEC		Westminster			092, 504, 622, 658
Ganard		Wolsey Gaine			
Gemini		Zenith			
General Instrument		Zentek			369
Gold Star					
Grundig	529		REMOTE	Manhatten	
Hamlin		DBS	CODE NO.	Maspro	
Hitachi		Alpha Star			
Hytex		Echostar		Mediamarkt	
Jasco		HTS		Minerva	
Jerrold	, 011, 012, 014,	Hitachi	819	Mintec	
		Hughes Network Syste	m	Morgan's	
M.N.E. T		Jerrold			
MNet		Magnavox		Nikko	
Macon		Memorex		Nokia	108, 397, 573
Magnavox	.027, 032, 334	Panasonic		Nordmende	
Memorex		Philips		Orbitech	
Movie Time		Primestar		Pace	.067, 183, 336, 455, 791
NSC	063, 070	RCA		Paliadium	
Oak		Sony			
Optimus		Toshiba			200, 292, 571, 750
Panasonic		Uniden			
Paragon					
Philips025, 027, 031, 153			REMOTE		
Pioneer		<u>Satellite</u>	CODE NO.		
Popular Mechanics		AST			
Pulsar		Akai			396
RCA		Alba			351, 461
Radio Shack		Aldea			
Regal		Amstrad			
Regency		Anitron	, ,		
Rembrandt		Armstrong			183, 504
Runco	,	Astra			
SL Marx		Avalon			
Salora		Axis			
Samsung		BT			421
Satbox		Beko			421
Scientific Atlanta	.008, 017, 477	Best			
Signal		Boca			
Signature		Bush	,		
Sprucer		Cambridge			243, 613
Star Sight		Channel Master			
Starcom		Commlink			351
Stargate	,	Connexions			
Starquest		Conrad	607	Vtech	
Sylvania		Crown		Wisi	
TV85		DDC			
Tandy		DNT			REMOTE
Tele+1		Echostar		<u>DVD</u>	CODE NO.
Teleservice		Farguson			
Teleview		Fidelity			521
Texscan		Finiux			490
Timeless		Fuba			539
Tocom		G-Bat			
Toshiba		Galaxis			
Tudl		Gooding		•	
Unike		Hinari		1051110α	
Cinic					

USING THE REMOTE'S VCR BUTTONS

When using the TV remote with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method).

(BEGIN)

Set the TV/VCR/ACC mode switch to VCR on the remote.

Point the top of the remote toward the front of the VCR (remote sensor window) when pressing the buttons.



RECORD BUTTON

Hold the (A/CH) • RECORD button down to begin a VCR recording.

VCR SYSTEM SWITCH

Set in the VCR position to send remote commands to the VCR.

PLAY BUTTON

Press to begin playback of a video tape.

REWIND BUTTON ◀◀

Press to rewind tapes. For some VCR's the STOP button may have to be pressed first, then REWIND. In playback mode hold down the button to view picture moving rapidly in reverse.

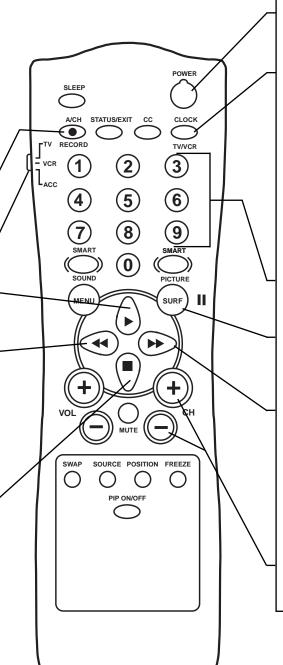
STOP BUTTON ■

Press to stop the motion of a tape in playback, rewind, fast forward, etc.

SMART HELP

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

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



POWER BUTTON

Press to turn the VCR ON and OFF.

TV/VCR BUTTON

Press while in the VCR mode (VCR indicator on the front of the unit will light) to view the playback of a tape. Press again to place in the TV position (VCR indicator light will go off) to view one program while recording another program. When used in the TV mode, the TV/VCR/CLOCK button will access the TV's Clock menu options.

NUMBER BUTTON

Press buttons for direct VCR channel selections.

PAUSE BUTTON II

Press to temporarily stop the tape during a playback or recording. Press again to release Pause.

FAST FORWARD BUTTON ▶▶

Press to rapidly advance the tape. For some VCR's you may need to press the STOP button first, then the FAST FORWARD button. In playback mode hold the button down to view the picture moving rapidly in the forward direction.

CHANNEL + & - BUTTONS

Press to scan up or down through the VCR channel numbers.

USING THE PIP (PICTURE-IN-PICTURE) FEATURE



Hooking up PIP

Picture-In-Picture (PIP) is the showing of two pictures on the TV screen at the same time. (One main screen picture and one small inset picture - or PIP).

Please Note: A VCR (or Accessory Device) is needed to supply the PIP signal.

The follow steps describe the basic hookup needed to use PIP:

(BEGIN)

- First use an optional signal splitter and connect the original cable TV signal to both the CABLE/ANT IN on the VCR and the 75Ω input jack on the rear of the television.
- Onnect the VIDEO OUT jack on the VCR to the VIDEO AV1 jack on the TV.
- (right and left) jacks from the VCR to the AUDIO AV1 (right and left) jacks on the television.

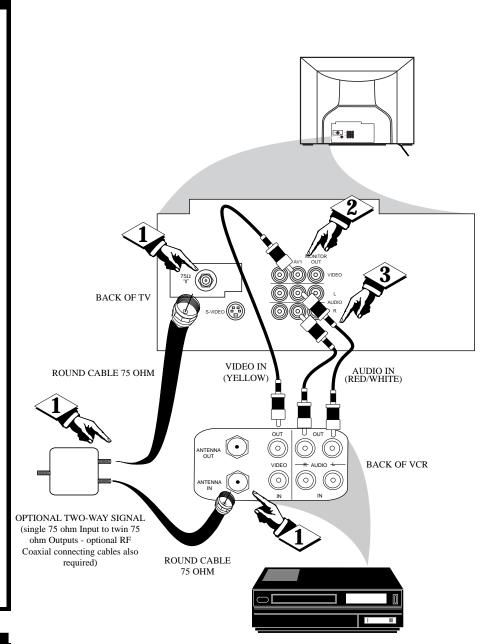
Be sure to turn the VCR ON while using the PIP features. The signal supplied through the VCR will appear in the PIP window once the PIP Source has been selected. Please refer to the next page to learn ho to set the PIP Source control.

SMART HELP

For other possible PIP connections see pages 41-42 for the "More PIP Connections" section.

If you need any accessories or parts to complete the described PIP connections, contact your dealer, or our Parts Information Center at:

1-800-851-8885



VCR WITH AUDIO/VIDEO OUPUTS

SELECTING THE PIP (PICTURE-IN-PICTURE) SOURCE

CHOOSING THE PIP SOURCE

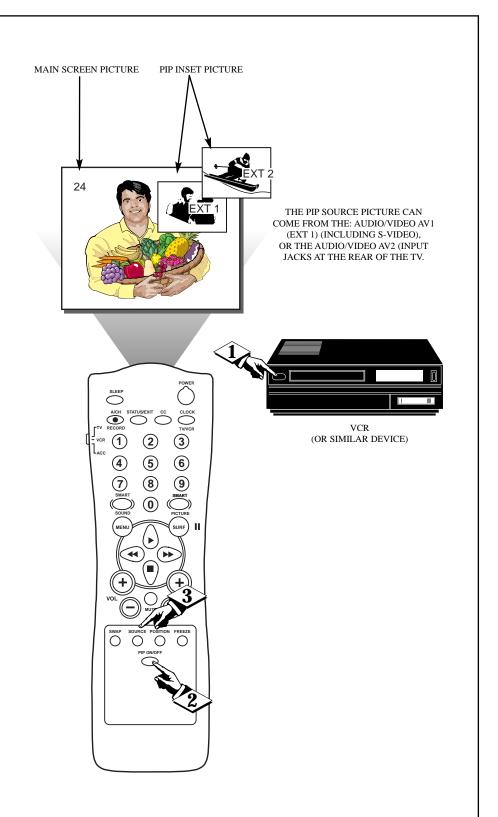
The picture for the PIP window can come through either the 75Ω Input or any the the external Audio/Video Inputs (in 1, in 2 or S-VIDEO) at the rear of the TV. PIP Source simply tells the TV which one of these sources it is to show in the PIP window.

(BEGIN)

- other device hooked to one 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.
- 2 Press the SOURCE button
 on the remote to toggle between
 the different external connections.

The PIP SOURCE may come from the following:

AV1 (including S-VIDEO), or AV2: for picture signal coming from the external Audio/Video jacks on the TV. (Must have an external device hooked up at these locations.)



USING THE PIP (PICTURE-IN-PICTURE) FEATURE



REMOTE CONTROL BUTTONS

By using the PIP buttons on the remote control the PIP picture can be moved and swapped with the main screen. The PIP inset picture can also be frozen within the PIP window.

(BEGIN)

ton to show the PIP ON/OFF butappears in one of the four corners of the screen.

Press the PIP ON/OFF button again and the PIP picture is reduced in size.

Pressing the PIP ON/OFF button a third time will remove the PIP picture from the screen.

- on the remote to move the PIP picture to any of the four corners.
- 3 Press the FREEZE button
 on the remote to stop the action
 within the PIP window. Press the
 FREEZE button again to
 resume the normal viewing
 action.

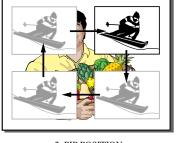
If the FREEZE button is pressed while PIP is OFF, it will freeze the picture from the main screen in the PIP window.

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

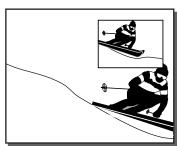




1. PIP ON/OFF



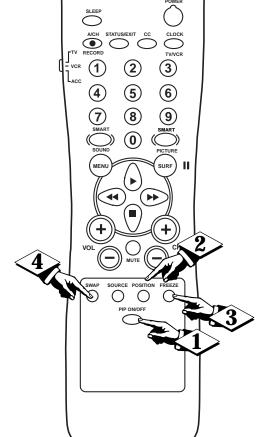
2. PIP POSITION



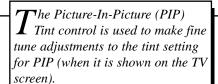
3. PIP FREEZE



4. PIP SWAP



ADJUSTING THE PIP TINT



(BEGIN)

Press the MENU button on the remote to show the onscreen menu.

2 Press the CURSOR UP ▶ or the CURSOR DOWN ■ button until the word PIP is highlighted.

3 Press the CURSOR RIGHT
| **b b** button to display the PIP
TINT control.

Press the CURSOR RIGHT

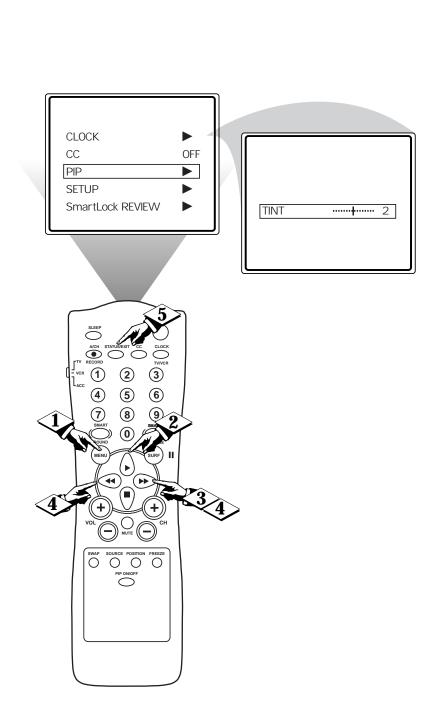
→ or the CURSOR LEFT
buttons to adjust the TINT bar to the desired levels.

ton to clear the menu from the screen when the adjustment is complete.



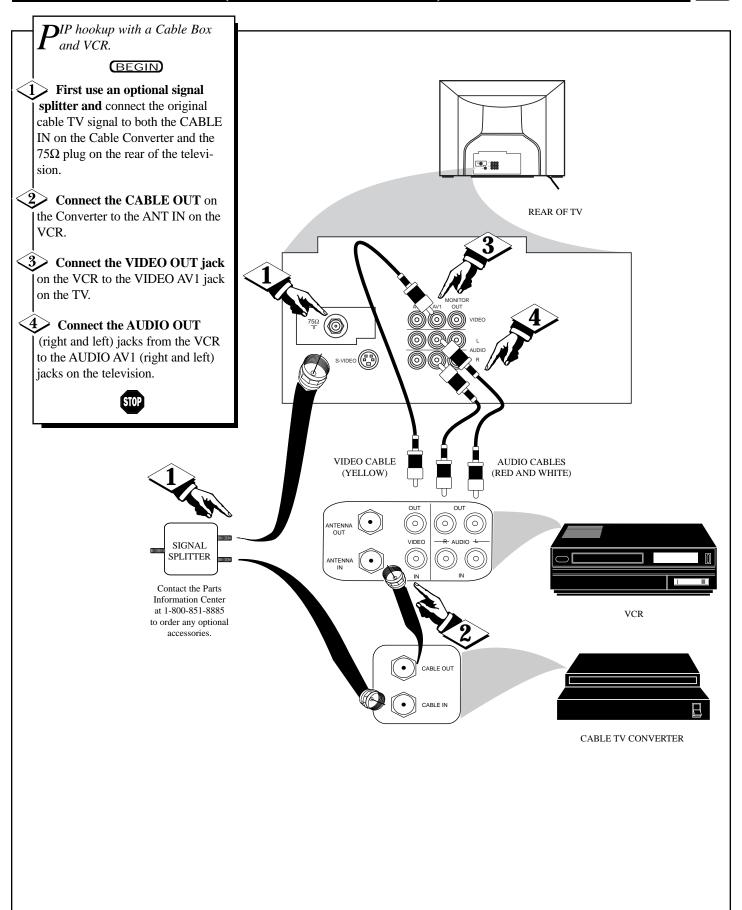
SMART HELP

Remember, although there is a separate TINT control for PIP, the adjustment levels for this control depend on the TV's main picture. For example: If the main picture screen is showing a black and white picture, PIP would also be seen in black and white (even though the PIP picture source is in color).



MORE PIP (PICTURE-IN-PICTURE) CONNECTIONS





More PIP (PICTURE-IN-PICTURE) CONNECTIONS

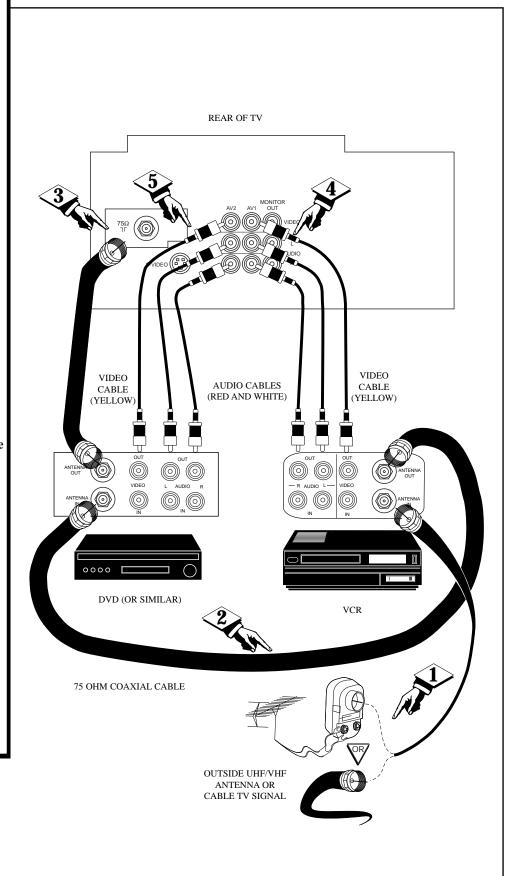
PIP hookup with a VCR and a Digital Video Disc Player (or similar device).

BEGIN

- TV signal or Antenna signal to the ANT IN jack on the back of the VCR.
- 2 Connect the ANT OUT jack on the rear of the VCR to the ANT IN jack on the rear of the Video Disc Player.
- (3) Connect the ANT OUT jack on the rear of the Video Disc Player to the 75Ω input on the rear of the TV.
- from the VIDEO OUT jack on the VCR to the VIDEO AV1 jack on the TV. Then, connect the red and white Audio Cables from the AUDIO OUT jacks on the VCR to the AUDIO AV1 jacks on the rear of the TV (labeled AUDIO L & R AV1).
- from the VIDEO OUT jack on the Video Disc Player to the VIDEO AV2 jack on the TV. Then, connect the red and white Audio Cables from the AUDIO OUT jacks on the VCR to the AUDIO AV2 jacks on the rear of the TV (labeled AUDIO L & R AV2).

Note: When selecting the PIP SOURCE, the VCR will appear on the EXT 1 channel, and the Video Disc Player will appear on the EXT 2 channel.





TIPS IF SOMETHING ISN'T WORKING



Please make these simple checks before calling for service. These tips can save you time and money since charges for TV installation and adjustment of customer controls are not covered under your warranty.

CAUTION: A video source (such as a video game, Compact Disc Interactive - CDI, or TV information channel) which shows a constant non-moving pattern on the TV screen, can cause picture tube damage. When your TV is continuously used with such a source the pattern of the non-moving portion of the game (CDI, etc.) could leave an image permanently on the picture tube. When not in use, turn the video source OFF. Regularly alternate the use of such video sources with normal TV viewing.

No Power

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

No Picture

- Check antenna connections. Are they properly secured to the TV's 75Ω plug?
- Check the TUNER control for CABLE or ANTENNA setting.
- Check Audio/Video Input jack connections if using a VCR or other external device.

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- Check Audio/Video Input jack connections if using a VCR or other external device.

Remote Does Not Work

- Check batteries. Replace with AA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary.
- Clean the remote and the remote sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again. Be sure fuse is not blown on AC Power strip if one is being used.
- Check to be sure TV outlet is not on a wall switch.

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add desired channel numbers (CHANNEL control) into TV memory.
- Check to be sure the TUNER control is set to the CABLE option.

Cleaning and Care

- To avoid possible shock hazard be sure the TV is unplugged from the electrical outlet before cleaning.
- When cleaning the TV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive). 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. Use a clean dry cloth to dry the wiped surfaces.
- 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

Coaxial Cable • A single solid antenna 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.

Closed Caption • Broadcast standard which 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.

Direct Audio/Video Inputs • Located on the rear of the TV these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

Identify • Method by which a remote control searches and finds an operating code for another product (such as a VCR or Cable Converter). Once the code has been "identified" then the TV remote can operate and send commands to the other product.

On Screen Displays (OSD) • Refers to the wording or messages generated by the television (or VCR) to help the user with specific feature controls (color adjustment, programming, etc.).

Menu • An onscreen listing of feature controls shown on the Television screen that are made available for user adjustments.

Multichannel Television Sound (MTS) • The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

PIP (**Picture In Picture**) • Allows viewing of different programs (or picture sources) on the TV screen at the same time. PIP will also let you swap the pictures, move the PIP picture to any of the four corners, and even freeze the picture until you shut it off.

Programming • The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers

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

Setup Mode • Automatic feature control settings made by the TV. Designed for first time setup and use. Settings for signal connections (antenna or cable TV), plus channel program memory are held in the TV's memory (even if the set is unplugged and moved to a new location.)

Second Audio Program (SAP) • Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. The most frequently proposed use for SAP is the simultaneous bilingual broadcast of TV program material.

Status • Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

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

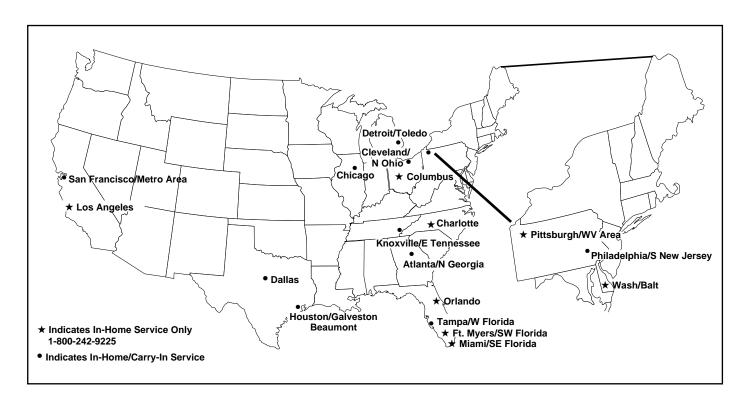
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Philips Consumer Electronics Company

Factory Service Center Locations



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

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

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

In Canada

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

Please contact Philips at 1-800-661-6162 (French speaking) 1-800-363-7278 (English 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)

1-800-363-7278

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 (francófono) 1-800-363-7278 (anglófono)

MAC2929 12/99 EL4482-3 Rev. BB 3135 015 07541

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. And, if the phone number listed for your area is long distance, call 1-800-242-9225 for 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.

GEORGIA

Philips Factory Service of Georgia 200 N. Cobb Pkwy., Suite 120 Marietta, GA 30062 (770) 795-0085

FLORIDA

Philips Factory Service of Florida 1911 US Highway 301 North Tampa, FL 33619 (813) 621-8181

WESTERN U.S.A.

Philips Factory Service Western Region 681 East Brokaw Rd. San Jose, CA 95112 (408) 436-8566

TEXAS

Philips Factory Service of Texas 1110 N. Post Oak Rd., Suite 100 Houston, TX 77055 (713) 682-3990

CENTRAL U.S.A.

Philips Factory Service Central US 950 Keynote Circle Brooklyn Heights, OH 44131 (216) 741-3334

MICHIGAN

Philips Factory Service of Michigan 25173 Dequindre Madison Heights, MI 48071 (248) 544-2110

DALLAS AREA

Philips Factory Service of Dallas 415 N. Main Street, #107 Euless, TX 76040 (713) 682-3990

ILLINOIS

Philips Factory Service of Illinois 1279 W. Hamilton Pkwy. Itasca, IL 60143 (630) 775-0990

TENNESSEE

Philips Factory Service of East Tennessee 6700 D Papermill Rd. Knoxville, TN 37919 (423) 584-6614

MID-ATLANTIC

Philips Factory Service Mid-Atlantic 352 Dunks Ferry Rd. Bensalem, PA 19020 (215) 638-7500

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.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking) 1-800-363-7278 (English Speaking)

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

REMEMBER...

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

MODEL#	
SERIAL#	

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

Philips Consumer Electronics Company, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

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