

Instructions for use



Let's make things better.



PHILIPS

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

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

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!"







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,



Robert Minkhorst
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 which 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.

Let's make things better

INTERNET ADDRESS: http://www.philipsusa.com

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.
- 2. 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 followed
- 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.
- 8. 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 built-in 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.
- **12. Cleaning** The appliance should be cleaned only as recommended by the manufacturer.
- Power Lines An outdoor antenna should be located away from power lines.
- 14. 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 mats 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 Fig. below.

- 15. Non-use Periods The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- Object and Liquid Entry Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 17. 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
 - 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.
- 18. 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.

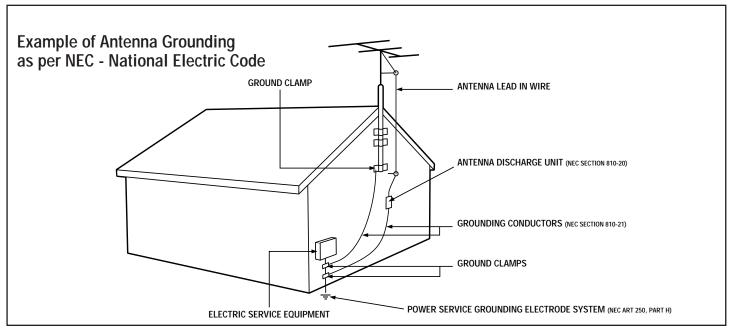


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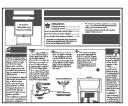
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SET-UP AND QUICK USE GUIDE

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

- Antenna Hook-ups
- First Time Set-Up (Automatic Settings)
- Basic TV and Remote Control Operation
- On-Screen Menu Use



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 you contacting your dealer or requesting service.

Because of continuous product improvements, the information mentioned in the documents accompanying your product are subject to change without notice.

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FEATURES



First Time Set Up - automatically sets the TV for local channels, the correct picture signal (antenna or cable), and assists in the setting of TV's Guide Plus+feature.

Infrared Remote Control - operates your TV set and a variety of wireless remote control VCRs, Cable TV Converters, and other accessory equipment.

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

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

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

Picture-In-Picture (PIP) - can show a TV program and the direct video output from an accessory (VCR, etc.) onto the TV screen at the same time.

Parental Control for "Censoring" - this feature can block out channels to keep children from watching undesirable programming. Parental Guideline and Movie Rating settings can also be used as part of the new Content Advisory Data system available with TV programming.

Stereo-TV - with a built-in audio amplifier and a twin speaker system, reception of TV programs in both broadcast stereo sound or (SAP) bilingual broadcast are available.

Twin Antenna (A/B) Inputs - for easy displaying of two separate signal sources on the TV. An A/B button on the remote control switches the TV's Main screen between the two Antenna (A & B) Input options.

Audio/Video Jacks - for direct connections with VCRs (and other accessories) for quality TV picture and sound playback.Component Video Input connectors are also available for high fidelity color and picture resolution when using digital video source material, such as DVD.

Surround Sound - this TV set contains external; audio speaker connections for a more dynamic sound effect.

Sleep-Timer - automatically turns the TV OFF at preset time intervals.

Auto Button - for the control of TV Sound and the Picture levels. Use the Auto Button on the remote to quickly adjust Auto Sound (to select various audio modes matched to specific types of TV programming); Auto Picture (for programmed video level adjustments on a variety of program sources); and Auto Surf (for quick one button channel selection of up to 10 of your favorite channels).

Digital Ready - Projection Television capable of connecting to both the current analog television signals of today as well as interfacing with new upcoming digital source playback products and devices. This TV includes multiple signal connectors (Component Video, S-Video, Composite Video) which give you a variety of equipment playback options for digital set top boxes, satellite receivers, cable boxes, and other digital devices.

While there may exist some digital devices with connections not available on this television, you should be adequately prepared for the vast majority of products coming onto the digital consumer electronics' market. Note: You should always use the connection output on digital devices that gives the highest level of picture quality possible. As listed above the Component Video (or Y PB PR) input delivers the best color and picture reproduction; followed by S-Video; and then Composite Video. In addition to the above listed inputs, your television also includes the standard 750hm cable signal connector for use with antennas or analog cable boxes.

As you unpack your TV please note that the following items have been included with your set:

- · Owner's Manual
 - Safety Tip Information
 - Factory Service Center Locations
- · Warranty Registration Card
- Remote Control Transmitter
- · Batteries for Remote Control Use

Please take a few minutes to complete your registration card. The serial number for the TV is on the back of the set.

Refer to the back of this manual for instructions on the cleaning and care of the TV.

End-of-Life disposal

Your new projection television and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts which need to be properly disposed.

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

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

PICTURE MENU CONTROL ADJUSTMENTS

COLOR, BRIGHTNESS, SHARPNESS, TINT, PICTURE

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

BEGIN

1 Select BRIGHTNESS,
PICTURE, COLOR, TINT, or
SHARPNESS picture control.

With the PICTURE MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

2 Press the outer MENU ring buttons to adjust the selected control.

Press the STATUS button to clear the screen.



SMART HELP

Remember. When the bar scale is centered, control settings are at normal mid-range levels.

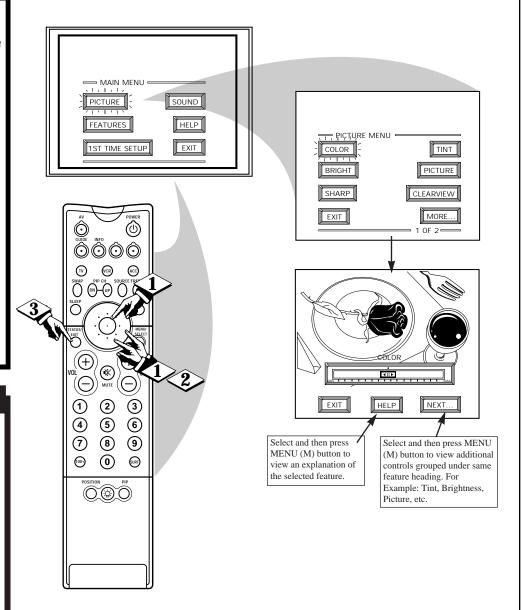
BRIGHTNESS Press (-) **or** (+) until dark parts of the picture show good detail.

<u>PICTURE</u> Press (-) **or** (+) until whitest parts of the picture are as bright as you prefer.

<u>COLOR</u> Press (-) or (+) to add or eliminate color.

<u>TINT</u> Press (-) or (+) to obtain natural skin tones. (Also see Flesh Correction on page 9 for more information).

SHARPNESS Press (-) **or** (+) to improve detail in the picture.



CLEARVIEW

Nearview is a sharpness feature which smoothes out background snow (or picture noise) without losing picture image detail or crispness.

BEGIN

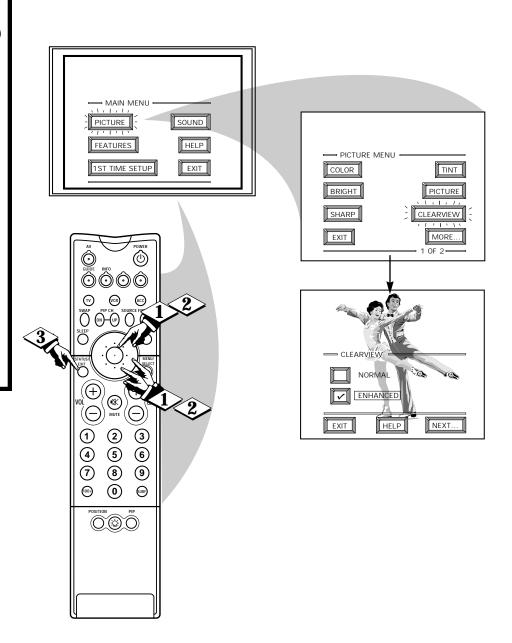
Select CLEARVIEW control.

With the PICTURE MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

2 Press the outer MENU ring buttons to move the RED highlight. Press the center MENU button to select () the ENHANCED mode.

Press the STATUS button to clear the screen.





RED/BLUE CONVERGENCE

Convergence is the correct lining up of the red and blue light paths on the TV screen.

NOTE: If no color fringing (see Smart Help) shows, then no Convergence adjustments are necessary for your TV.

(BEGIN)

Select CONVERGENCE control.

With PICTURE MENU (2 of 2) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

- If there is RED or BLUE color fringing on the White cross, press the center MENU button to continue.
- 3 Press the MENU ring
 buttons to move the red or blue
 cross directly over the white cross
 on the TV screen.

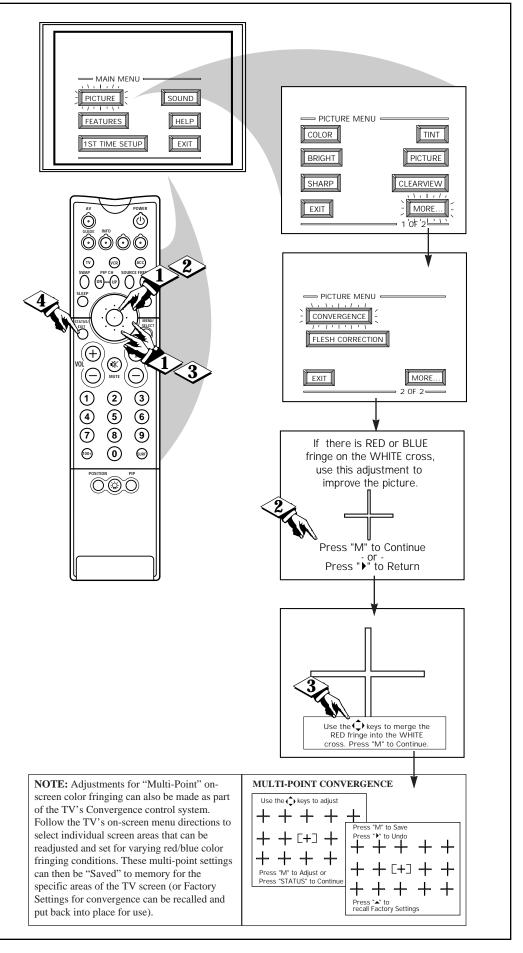
The red or blue cross is properly adjusted when it is completely merged with the white cross. (No color appears around the edge of the white cross).

Press the STATUS button to clear the screen when convergence adjustments are complete.



SMART HELP

Remember. Convergence has been set at the factory for best viewing, but if one or more of the (red or blue) colors appear around the edges of objects (color fringing) follow the steps given in this section.



FLESH CORRECTION

Tse the Flesh Correction control to keep skin tone hues (or facial tint) from varying from TV channel to TV channel.

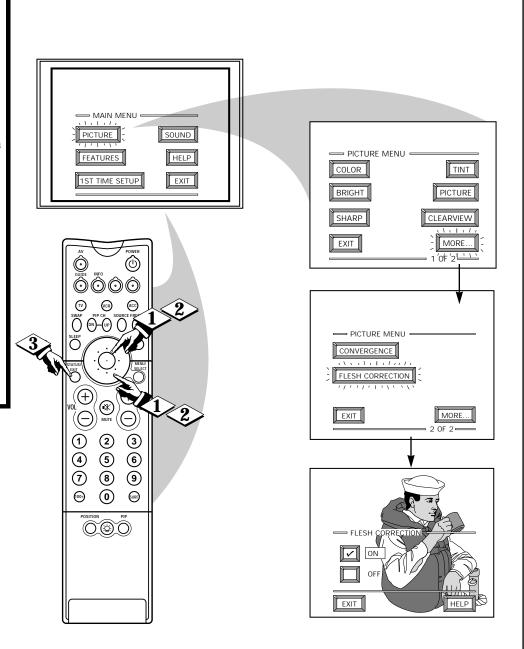
(BEGIN)

1 Select FLESH **CORRECTION** control.

> With PICTURE MENU (2 of 2) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

- **2** Press the MENU ring **buttons** to move the RED highlight. Press the center MENU button to turn () the FLESH CORRECTION control ON.
- 3 Press the STATUS button to clear the screen.





FEATURE MENU CONTROL ADJUSTMENTS

PICTURE SOURCE

The picture for the TV can come **I** through either the ANTENNA plug or the AUDIO/VIDEO INput jacks (on the rear of the TV). The Picture Source control simply tells the TV which one of these picture sources it is to show on the TV screen. (BEGIN)

1 > Select PICTURE SOURCE SELECT control.

With the FEATURES MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

2 Press the MENU ring **buttons** to move the RED highlight. Press the center MENU button to turn the desired PICTURE SOURCE control ON (**1**/1).

ANT A or B- for a picture signal coming from either the ANT(enna) A or B Input plugs on the TV.

AUX 1 (2 or 3)VIDEO- for a picture signal coming from the AUX 1 (2 or 3) Video Input jacks on the rear of the TV.

AUX 1 (or 2) Y PB PR- for picture signals coming from the AUX 1 (or 2) component (Y PB PR) luminance and color input jacks on the rear of the TV.

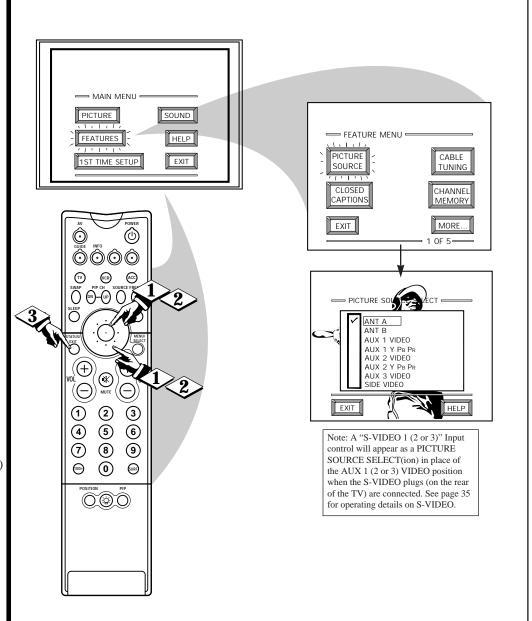
SIDE VIDEO- for a picture signal coming from the Video Input jack on the right side panel of the TV.

> Press the STATUS button to clear the screen.



SMART HELP

Remember, the Auxiliary Input modes (AUX 1 VIDEO, € AUX 1 Y PB PR, etc.) must have a compatible video signal source properly connected (to the INPUT plug on the rear of the TV), or the TV screen will be blank.



CLOSED CAPTION

*losed 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 on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

(BEGIN)

Select CLOSED CAPTIONING control.

> With the FEATURES MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

2 Press the MENU ring buttons to move the RED highlight. Press the center MENU button to select () the desired Closed Caption mode - For Example: "ALWAYS ON" and "CAPTION

CAPTION 1, 2, 3, 4:

dialogue (and descriptions) for the action on the captioned TV program shows on-screen. (See Important Note on this page.)

TEXT 1, 2, 3, 4:

often used for channel guide, schedules, or bulletin board information for CC programs.

After making your Caption mode selection, press the STATUS button to clear the TV screen. The selected Closed Caption mode will be active.

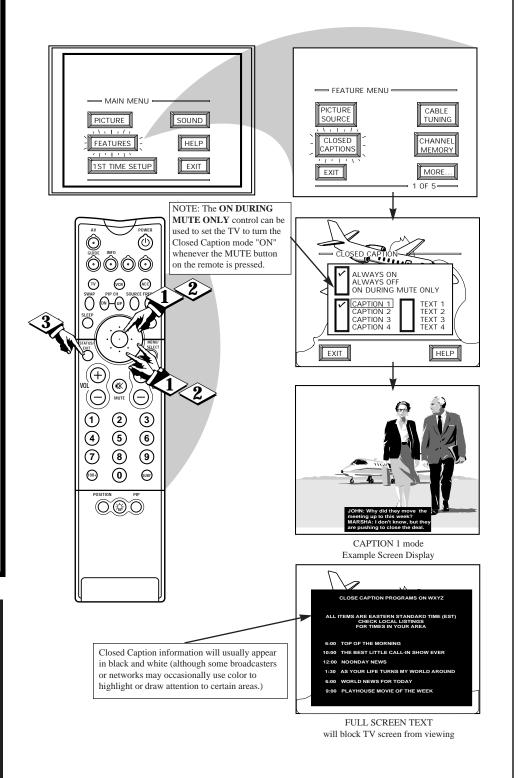
To cancel, set the Closed Captioned feature to OFF when finished.



SMART HELP

Remember. Broadcast stations will often use spelling abbreviations, symbols, dropouts and other grammatical shortcuts in order to keep pace with the on-screen action. These type factors vary upon the source of the captioned text material and do not indicate a need for service on the part of the TV.

NOTE: Not all TV programs and product commercials are made for broadcast with Closed Caption (CC) information included. Neither are all Closed Caption modes (CAPTION 1-4; or TEXT 1-4) necessarily being used by a broadcast station during the transmission of a closed caption program. Usually "CAPTION 1" is the most used mode to view captioned material. Refer to your area's TV program listings for the stations and times of Closed Caption shows.



CABLE TUNING

You need to make sure the TV is set to pick up either Cable TV or Antenna signals. In other words, the TV needs to know if you connected a Cable TV signal or a normal antenna to its ANTENNA plug.

NOTE: If you went through First Time Setup (in your Quick Use Guide), this task has already been completed for you.

BEGIN

Select CABLE CHANNEL TUNING control.

With the FEATURES MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

2 Press the MENU ring

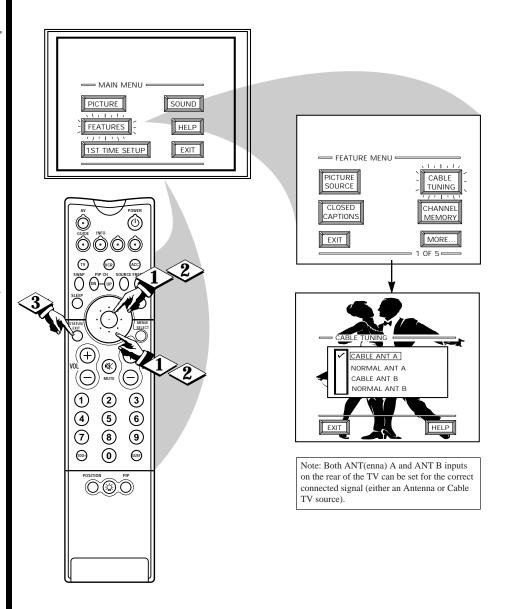
buttons to move the RED highlight. Press the center MENU button to select () the desired mode - For Example: CABLE.

CABLE- If you DO have
Cable TV connected
to the TV. Channels
1-125 available.

NORMAL- If you have an Antenna connected to the TV. Channels 2-69 available.

3 Press the STATUS button to clear the screen.





CHANNEL MEMORY AUTO-PROGRAMMING

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 when the CHANNEL ▲▼ buttons are pressed.

NOTE: If you went through First Time Setup (in your Quick Use Guide), this task has already been completed for you.

(BEGIN)

Select CHANNEL MEMORY
(START AUTO-PROGRAMMING)
control.

With the FEATURES MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

Press the center MENU button to turn AUTO-PROGRAMMING ON .

The TV shows which channel numbers are "SAVED" (►) as they are added into memory.

"Auto-programming CHANNEL MEMORY is finished" shows when the TV is through adding channels.

Press the STATUS or Menu button to clear the screen.



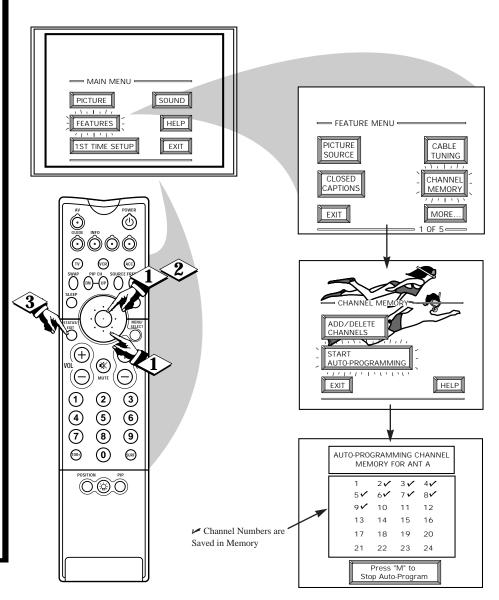


Try it out. **Press the CHANNEL**▼ buttons

and see which channels you can select.

Remember, an Antenna or Cable TV signal must first be connected to your TV so that channels can be saved.

If you want to delete any unwanted channels from the TV's memory, see "ADD/DELETE CHANNELS" on the next page.



ADD/DELETE CHANNELS

A uto-Programming (see previous page) adds all the channels it can find (on your Antenna or Cable TV system) into the TV's memory. Add/Delete Channels makes it easy for you to add other channels, or drop unwanted channels, from the list of channels in the TV's memory.

(BEGIN)

Select CHANNEL MEMORY
(ADD/DELETE CHANNELS)
control.

With the FEATURES MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

- 2 Press the CHANNEL ▲▼ or number buttons to select the channel you want to add or delete.
- Press the outer MENU ring button (on the Right) to ADD the channel into the TV's memory.

Press the outer MENU ring button (on the Left) to DELETE the channel from memory.

Repeat steps 2 and 3 for each channel you wish to add or delete.

Press the STATUS or MENU button to clear the screen when through.

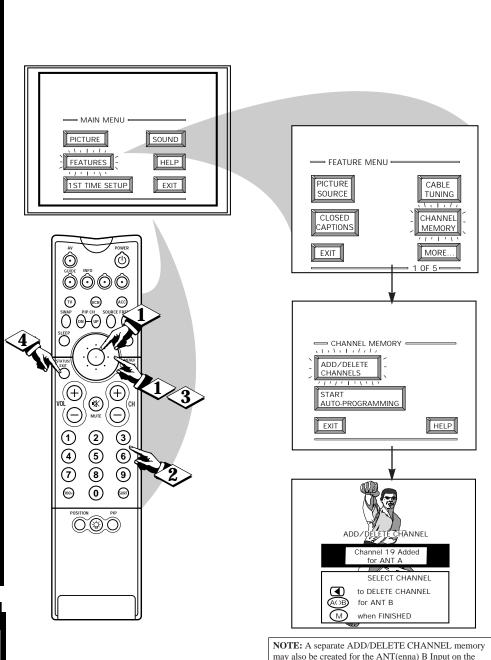


SMART HELP

Remember. You can also add the Auxiliary modes
(AUX 1 VIDEO, AUX 1 Y PB PR, etc.) just like a channel. Then by pressing the CHANNEL

buttons the AUX(iliary) mode can quickly be selected to use the desired set of Input jacks (see page 33).

Note: AUX(iliary) VIDEO modes are located between the lowest and highest channel numbers within the ADD/DELETE CHANNEL control screen.



NOTE: A separate ADD/DELETE CHANNEL memory may also be created for the ANT(enna) B Input on the rear of the set (if an Antenna or Cable TV signal has been connected). Press the "AV" button on the remote, while in the ADD/DELETE CHANNEL mode, to switch between the ANT A and ANT B channel memory lists. Then follow steps 2 and 3 as shown to the left to add or delete the desired channels.

SET CLOCK

Your TV comes with an onscreen clock. During normal operation the clock appears on the screen with every channel change (and when the STATUS button is pressed).

BEGIN

Select SET CLOCK control.

With the FEATURES MENU (2 of 5) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

Press the remote's number buttons to set the time clock.

3 Press the STATUS button to set the clock in operation and clear the screen.

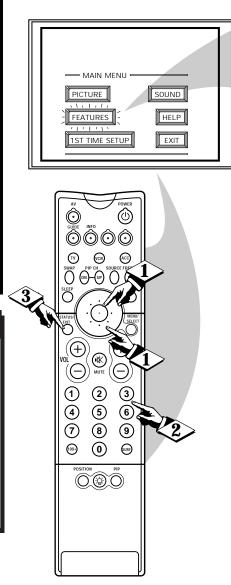


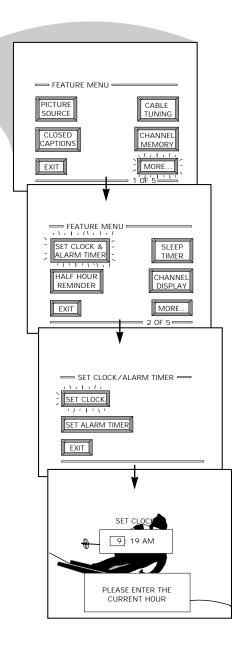
SMART HELP

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

The remote's MENU ring buttons can also be used to set the hours, minutes and AM/PM portions of the clock.

TV Clock settings may be lost when the TV is unplugged (or AC power to the set is interrupted).





SET ALARM TIMER

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

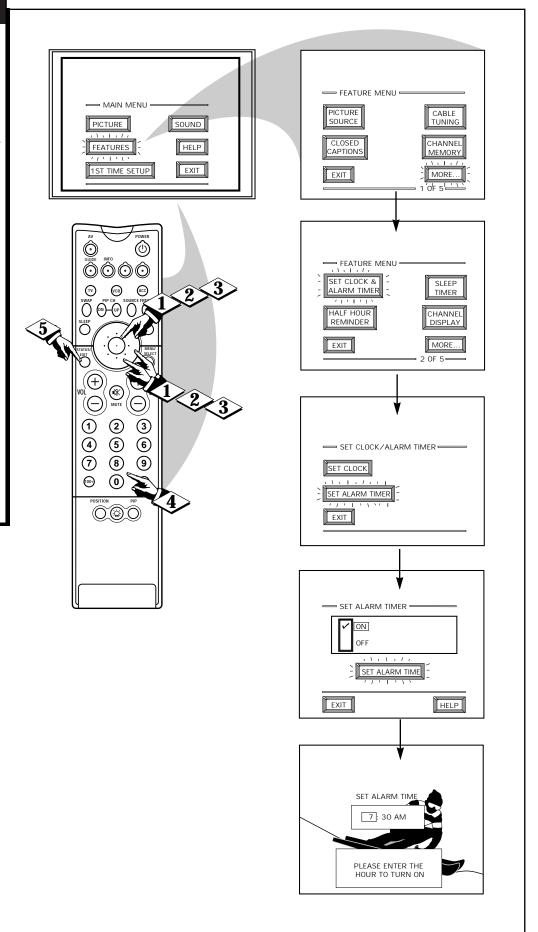
BEGIN



With the FEATURES MENU (2 of 5) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

- Press the outer MENU ring and center MENU buttons to highlight and select "ON" ().
- Press the outer MENU ring and center MENU buttons to select "SET ALARM TIME".
- Press the remote's number
 buttons to set the "TURN ON"
 time for the TV. (Press the MENU
 ring buttons for the AM or PM
 settings.)
- Set the "ALARM TIME" and clear the screen.





SLEEP TIMER

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.

Note: you can also select the SLEEP control with the TV's onscreen FEATURES MENU (2 of 5). Move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

2 Press the SLEEP button

repeatedly to pick the amount of time (15 minutes to 2 hours ahead) before the TV will turn itself off.

The Menu ring buttons can also be used to set the amount of time.

<3> Press the STATUS or MENU

button to clear the screen after you have set the time for the TV to turn off.

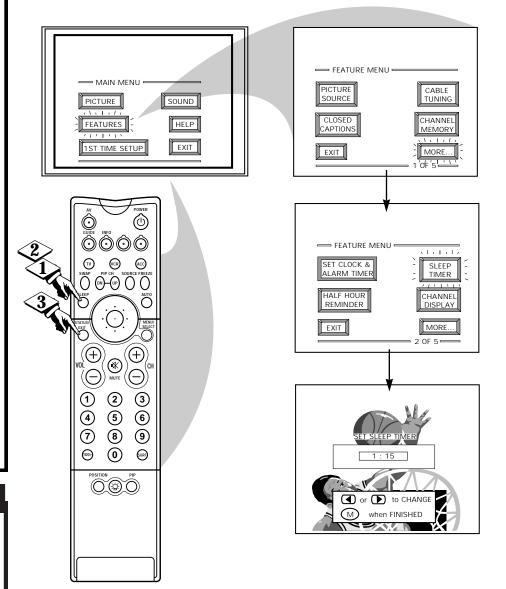


SMART HELP

Remember, to see how many minutes are left before the TV shuts itself off, reselect the SLEEP TIMER control screen.

To stop a SLEEP TIMER setting, reset the timer back to OFF. (Turning the TV off and on, or pressing a button during the last minute of a timer setting, will also cancel a setting.)

A few seconds before the TV is to shut off a message will come on the screen telling you GOOD NIGHT.



CHANNEL DISPLAY

Ith the Channel Display control you can change the size and location of the on screen channel and clock information.

BEGIN

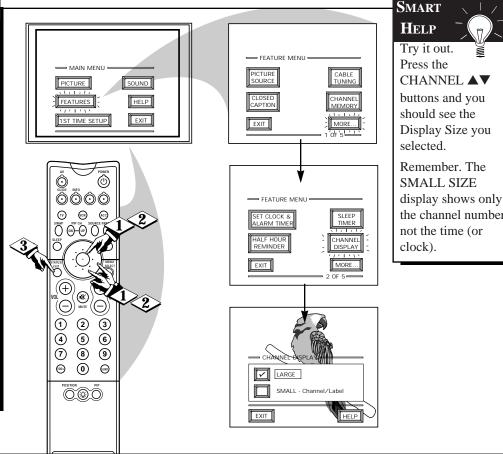
Select CHANNEL DISPLAY control.

> With the FEATURES MENU (2) of 5) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

2> Press the MENU ring and center MENU buttons to highlight and select () the LARGE or SMALL display control.

3> Press the STATUS button to clear the screen.





display shows only the channel number,

HALF HOUR REMINDER

Tith the Half Hour Reminder control the TV automatically shows you the current time and channel every thirty minutes.

BEGIN

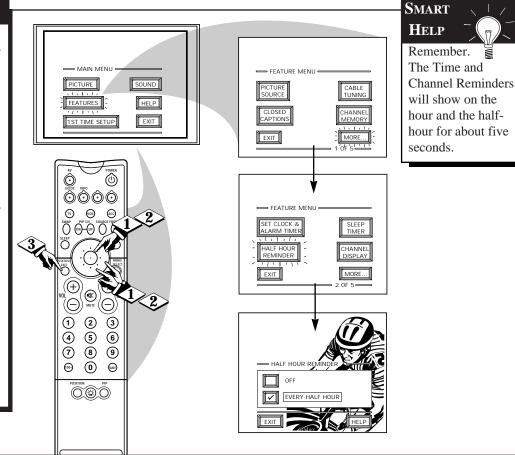
Select HALF HOUR **REMINDER** control.

> With the FEATURES MENU (2 of 5) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

2 Press the MENU ring and center MENU buttons to highlight and select () the EVERY HALF HOUR item.

3 Press the STATUS button to clear the screen.





PARENTAL CONTROL SETUP CODE NUMBER

Parental Control allows parents to block out, or "censor", any channels they think children should not watch. A channel placed under Parental Control cannot be viewed until a correct access code is used to unlock the channel for viewing.

First let's set your Parental Code:
BEGIN

> Select the PARENTAL CONTROL.

With the FEATURES MENU (3 of 5) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

"CHANNEL BLOCKING" and "SETUP CODE" show on screen.

Press the MENU ring and center MENU buttons to highlight and select the SETUP CODE item.

3 Press 0, 7, 1, 1 on the remote.

"XXXX" shows on the ACCESS CODE SETUP screen as you press the number buttons.

"INCORRECT ACCESS CODE - TRY AGAIN" will also show on the screen.

Press 0, 7, 1, 1 on the remote again.

"Next Enter Your New Access Code" shows on the screen.

5 Enter a new four digit number code using the remote.

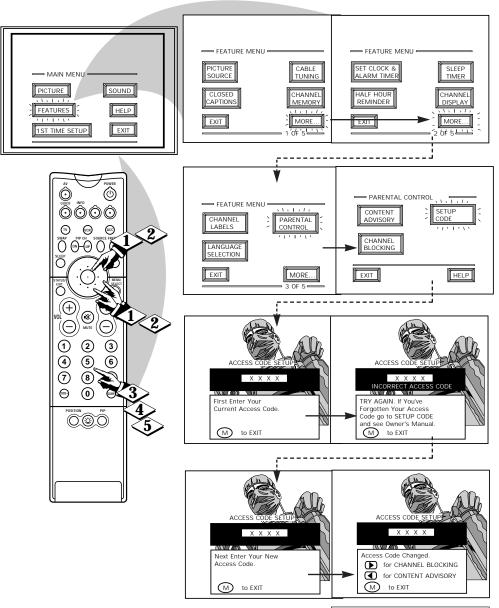
"Access Code Changed" shows on the screen to let you know the new code has been set.

Continue to the next page to find out how to "BLOCK" channels from viewing.

SMART HELP

Parents - it isn't possible to unlock or defeat your Censor Code without changing to a new code number. So if your Code number changes, and you didn't change it yourself, then you will know that someone has altered the code and the blanked out channel has been viewed.

NOTE:Your TV left the factory with the Parental Code set to "0000". If you are using your TV and the Parental Control for the first time, and don't want to SETUP a new Access code number, you can use the "0000" number to block channels - see next page. The "0711" Parental Code (shown on this page) is given as a default or way to reset the Code when the current Access number is not known.



- Press outer MENU ring button (on the Right) to go on and start to "block" channels.
- Press outer MENU ring button (on the Left) to go to "Content Advisory" (or TV and Movie Ratings system of channel blocking).
- Press the center MENU button to return to the Parental Control Menu screen.
- Press STATUS to clear the screen.

PARENTAL CONTROL CHANNEL BLOCKING

A fter your personal Parental Code number has been set (see previous page), you are now ready to select the channels you want to block out or censor.

BEGIN

Select the BLOCK CHANNELS control.

With the FEATURES MENU (3 of 5) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

- 2 Press the MENU ring and center MENU buttons to highlight and select the CHANNEL BLOCKING item.
- Enter the correct Parental Code number.
- Press Channel ▲▼ or Channel

 Number buttons to select the channel you want to block.
- button (on the right) to "BLOCK VIEWING" on the selected channel.

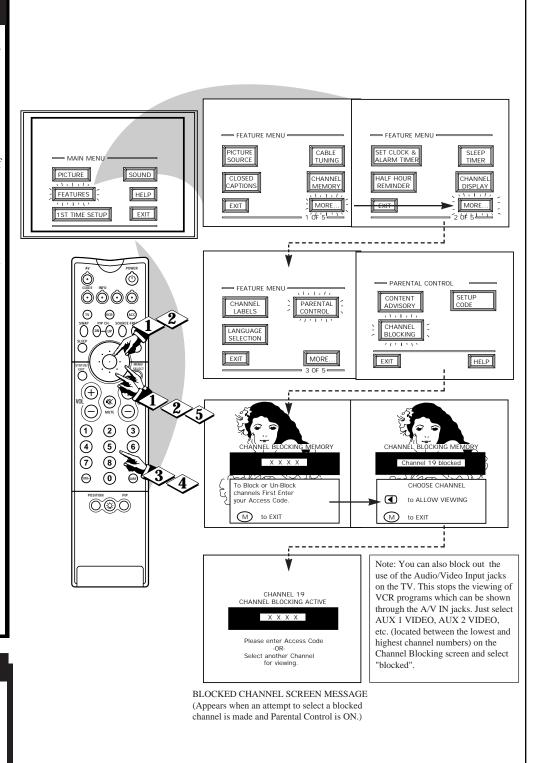
Press the **outer MENU ring button** (on the left) to "ALLOW
VIEWING" on a blocked channel.

Repeat steps 3 and 4 for any other channels you wish to block out.



SMART HELP

Remember, once set Parental Control blocks out the selected channel number on both the ANT A and ANT B channel rings. Also, to make TV viewing easier all channels (for both ANT A/B and Audio/Video Input jacks) will be unblocked, once the correct Parental Code number has been entered. When the TV is turned OFF and then back ON again, is when Parental Control is back in place for all blocked out channels.



PARENTAL CONTROL CONTENT ADVISORY

nother new area available to $oldsymbol{1}$ parents for the censoring of program material is through the TV Guidelines and Movie Ratings system. Program Content Advisory data will soon be contained within the broadcast signals of received TV programs. When setup by the parent or viewer, the TV can respond to transmitted advisory data by blocking out or denying access to TV shows (based on whether the program meets or exceeds the limitations you select as viewable). The TV program can then only be viewed by entering the correct and current Parental Code Access number.

The Content Advisory system uses both "Movie Ratings" and a "Parental Guidelines" form of censoring. Refer to the following page sections for explanations on the different Rating system levels and their uses.

BEGIN

1 Select the CONTENT ADVISORY Menu option

With PARENTAL CONTROL Menu on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

A Parental Guideline/Movie Rating status screen will appear with a review of currently BLOCKED Content Advisory categories.

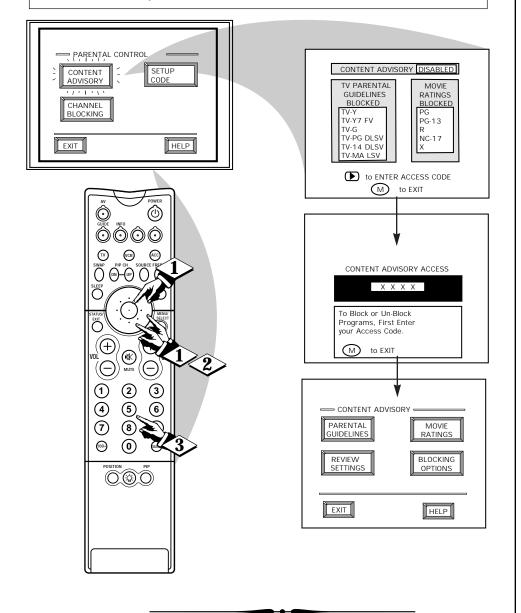
Press the outer MENU ring button (on the right) to select the ENTER ACCESS CODE Menu item.

Code number (see note at the top of this page).

"CONTENT ADVISORY" Menu screen appears. Parental Guidelines, Movie Ratings and other blocking control items are ready for selection and use.



Note: Please remember that a vailid and current Access Code number will be required in the setup and use of the TV's "Content Advisory" system. Review the previous **SETUP CODE** section on how to obtain a valid Parental Access Code number before attempting to make adjustments within the Movie Ratings and Parental Guidelines system.



CHANNEL 8
BLOCKED BY CONTENT ADVISORY
TV GUIDELINES TV-14 D

X X X X

Please enter Access Code
ORSelect another Channel

NOTE: In normal Content Advisory system operation the TV screen will display a message when programming is blocked by a Movie Rating, Parental Guideline, or Blocking Option control feature. Entering the correct ACCESS CODE number will unblock all the blocked Content Advisory Rated channels until the TV is turned Off. The blocked Advisory Ratings will be back in place when the TV is turned back On again.

CONTENT ADVISORY MOVIE RATINGS

Movie Ratings set viewing access levels for TV programming according to current Motion Picture Association of America (MPAA) ratings. These ratings are similar to the categories used with the rated movies appearing in cinema theaters and with video rental material.

(BEGIN)

Select the MOVIE RATINGS
Menu option.

With CONTENT ADVISORY
Menu on screen, move the RED
highlight with the outer MENU
ring buttons. Then press the center
MENU button to select the feature.

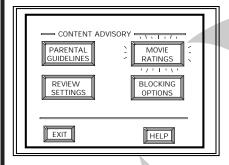
Press the MENU ring and center MENU buttons to highlight and select () the desired MOVIE BLOCKING level.

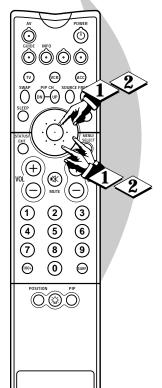
When in operation a "Blocked - Movie Rating" TV screen appears when movies are received which include the same selected rating as the Movie Blocking setting(s). Only the correct Access Code number, entered by the viewer, will unblock or allow the viewing of a block rated program.

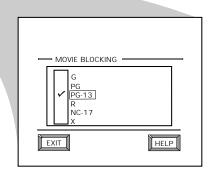


SMART HELP

Note: When a Movie Rating is selected () all higher level ratings are automatically blocked (although each individual Movie Rating can be manually selected and turned On or Off as desired). Programs with lower than the selected rating level are allowed for viewing or unblocked.







- **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.
- PG Parental Guidance: 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: 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 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 17 admitted: This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude indecent language.
- **X Mature audience 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.

CONTENT ADVISORY PARENTAL GUIDELINES

Parental Guidelines can be even more defined and specific in the degree and extent of material parents may allow for TV program viewing. Sub-settings for Language, Violence, and other blocking factors can be manually switched On or Off for use within the major Parental Guideline categories (TV-Y7, TV-PG, etc.).

(BEGIN)

Select the PARENTAL GUIDELINES Menu option.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

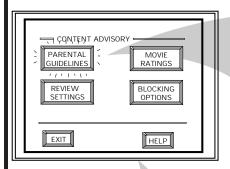
- 2 Press the MENU ring (Left and Right side) buttons to highlight and select the desired PARENTAL GUIDELINE rating level (TV-Y, TV-Y7, etc.).
- Press the MENU ring and center MENU buttons to Block () the selected Parental Guideline category (or to set other individual blocking feature items available within that Guideline category (L, V. S, D, etc.) as desired).

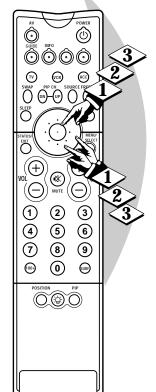
Note: Selecting "ALWAYS BLOCKED" (or individually adjusting the L, V, S, D settings) for any one rating will set all other higher level ratings to be automatically blocked as well.

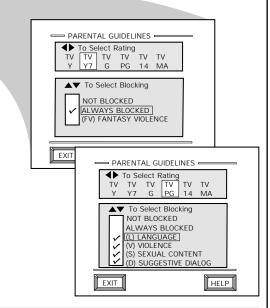


SMART HELP

The TV-Y7; TV-PG; TV-14; and TV-MA guidelines also include customized settings for various additional items such as V (violence), S (sexual situations), L (coarse language), D (suggestive dialogue), and FV (fantasy violence). These additional settings are category specific and can be individually selected for use as desired.







- TV-Y 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 -Appropriate for children seven and older: 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: 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 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 Unsuitable for children under 14: 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 audence only: This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).
- (V) Violence
- (S) Sexual situations
- (L) Language
- (D) Inappropriate dialogue
- (FV) Fantasy Violence may frighten children under seven. Some cartoons may have this rating. Available in the TV-Y7 category only.

CONTENT ADVISORY BLOCKING OPTIONS

The Content Advisory system also has "Blocking Option" controls which can be used to deny viewing access for channel programs and movies even when they are "unrated", or contain "no rating" information as broadcasted.

(BEGIN)

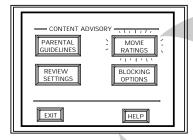
Select the BLOCKING OPTIONS Menu control.

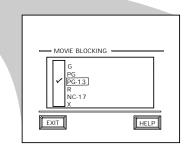
With CONTENT ADVISORY Menu on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

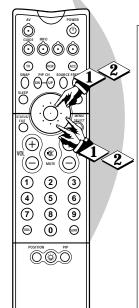
Press the MENU ring and center MENU buttons to turn the Blocking System On (highlight and select > ENABLED). Then use the remote Menu buttons to select the desired programming and information blocking options.

Please refer to Note shown with this page section for details on "unrated" and "no rating" program control options.









Note: Remember that Content Advisory data or encoded information is not available with all received TV programming (this also includes commercials, and other program spot announcements). Broadcaster's can decide **not to encode** any kind of content advisory ratings with their programming, or they can actually choose to **encode programs to be "unrated**."

The TV Blocking Options allow the viewer to block any program without content advisory data with the use of its "NO RATING INFORMATION" control. And to block programs that are encoded as "unrated" with its "UNRATED PROGRAMMING" control option.

Since the reception of Content Advisory data can take a few seconds, you may want to use the "CHANNEL CHANGE" option to be sure no viewing is allowed during blocked program channel changes. This can eliminate the display of a few seconds of undesirable video on the TV, or receiving scenes from a Ratings blocked channel source.

CONTENT ADVISORY REVIEW SETTINGS

Use the Review Settings control to quickly check the status for Content Advisory system Parental Guidelines and Movie Rating "Blocked" program levels.

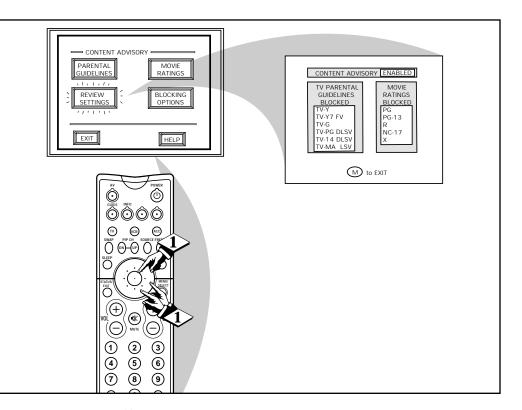
BEGIN

Select the REVIEW SETTINGS Menu option.

With CONTENT ADVISORY
Menu on screen, move the RED
highlight with the outer MENU
ring buttons. Then press the center
MENU button to select the feature.

The TV screen will display the current Parental Guideline and Movie Ratings Blocked program settings. Content Advisory system status will also be shown (Enabled -On, or Disabled - Off).





CHANNEL LABELS

Do you ever have trouble remembering on which channel a particular station or network is located? The Channel Labels Control is a quick way to view and select channels from a list of Labeled channels.

A Label is a four letter callout you can set to appear with the on screen channel number. Example Label: WXYZ - for a TV station's call letters.

To select channels from the Channel Labels Control:

(BEGIN)

of 5) on the TV screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select CHANNEL LABELS.

Press the MENU ring and center MENU buttons to highlight and select either:

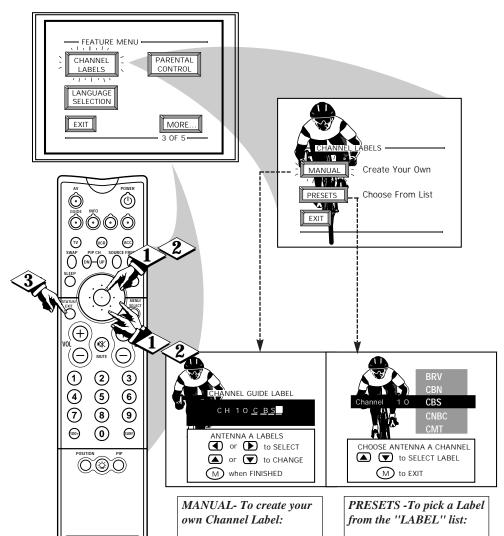
"MANUAL" to create your own label for a channel.

"PRESETS" to choose from a list of prewritten channel labels. (See instruction details on this

(See instruction details on this page.)

3 Press the STATUS button to clear the screen.





Press the Channel ▲▼ or Number buttons to select desired station.

A red highlight shows the active letter space for the channel label.

Press the outer MENU ring (top or bottom)

buttons on the remote to pick any of the letters or symbols that are given for your use.

Press the outer MENU ring (Left and Right)

buttons on the remote to move the red highlight to the other letter spaces and repeat.

Press the STATUS button to clear the screen when finished.

Press the Channel ▲▼ or

Number buttons to select desired station.

Press the outer MENU ring (top or bottom)

buttons to move up and down the Channel Label list.

Just stop on any label you might want to use.

The selected label automatically appears with channel changes and when the STATUS button is pressed.

Press the STATUS button to clear the screen when finished.

LANGUAGE

Note: If you went through First Time Setup, This task has already been completed for you.

For our Spanish and French speaking TV owners an on-screen LANGUAGE option is present. With the LANGUAGE control you can set the TV's on-screen features to be shown in either English, Spanish or French.

(BEGIN)

Select the LANGUAGE DISPLAY control.

With FEATURES MENU (3 of 5) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

Press the MENU ring and center MENU buttons to highlight and select () English, Español, or Francais on the display control.

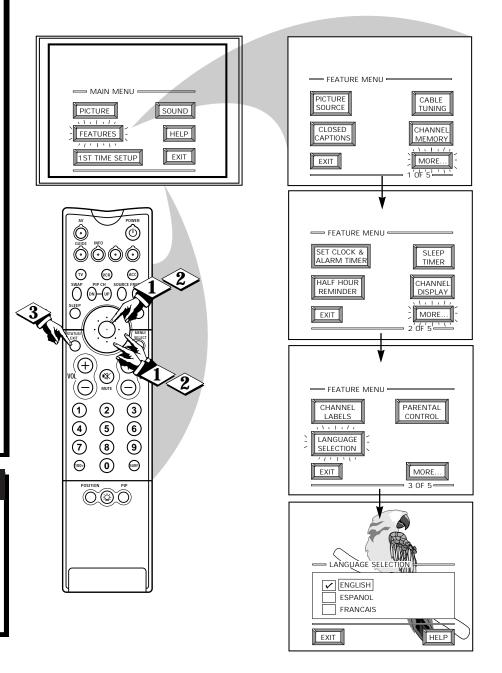
Text for the on-screen Menu will change to the selected language.

Press the STATUS button to clear the screen.



SMART HELP

Remember, the Language control only makes the TV's on-screen (MENU) items appear in English, Spanish, or French text. It does not change the other on-screen text features such as Closed Captioned (CC) TV shows.



SOUND MENU CONTROL ADJUSTMENTS

BASS, TREBLE, BALANCE

Your TV also has individual sound adjustment controls. The BASS (low frequency), TREBLE (high frequency), and Speaker BALANCE may all be used to adjust the sound playback of TV programs.

(BEGIN)

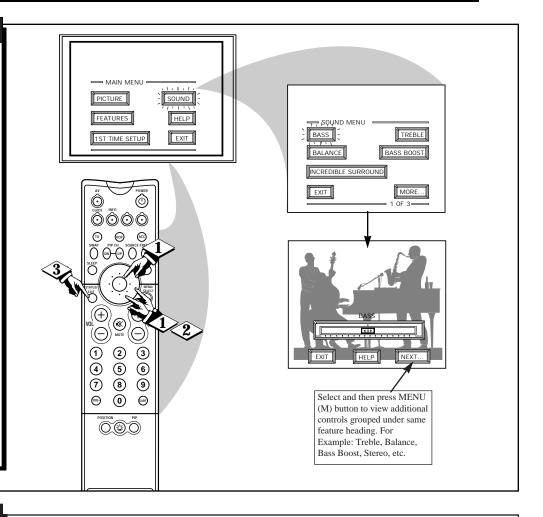
Select BASS, or TREBLE, or BALANCE sound control.

With the SOUND MENU on the screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

2 Press the outer MENU ring
(Left and Right) buttons to adjust the sound control to levels you prefer.

3 Press the STATUS button to clear the screen.





BASS BOOST

The BASS BOOST control increases the low frequency audio range of the TV. This creates a deeper, fuller playback sound which can be heard through the TV's speakers.

(BEGIN)

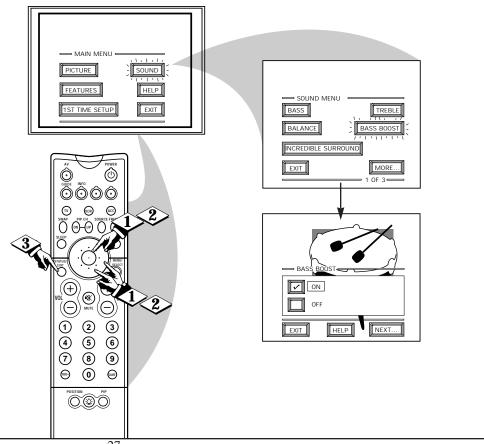
Select BASS BOOST sound control.

With the SOUND MENU on the screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

Press the MENU ring and center MENU buttons to highlight and turn ON () the BASS BOOST control.

Press the STATUS button to clear the screen.





STEREO

Your TV is able to receive broadcast stereo TV programs. The TV is equipped with an amplifier and twin speaker system through which the stereo sound can be heard.

Note: STEREO will appear on the TV's channel status screen to indicate when a stereo broadcast signal is available and received.

(BEGIN)

Select STEREO sound control.

With the SOUND MENU on the screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

Press the MENU ring and center MENU buttons to highlight and turn ON () the STEREO mode.

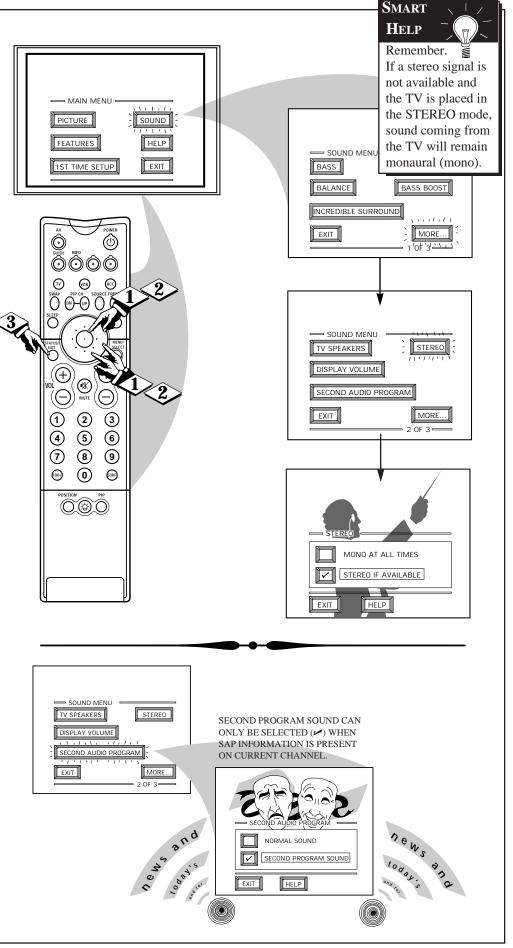
3 Press the STATUS button to clear the screen.



SECOND AUDIO PROGRAM

Second Audio Program (SAP) is part of the stereo broadcast system. Sent as a additional 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.)

NOTE: If a SAP signal is not present with a selected program, the SAP option can not be selected. "This program does not contain SAP information" will show on the TV screen.



INCREDIBLE SURROUND

The Incredible Surround control L can be used to add greater depth and dimension to both monaural (MONO) and STEREO TV sound.

(BEGIN)

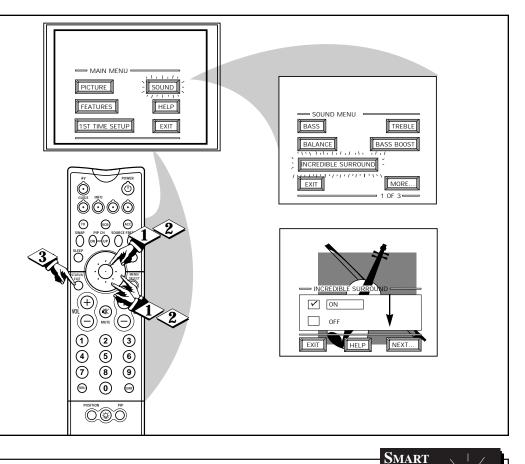
1 Select the INCREDIBLE **SURROUND** control.

> With the SOUND MENU on the screen, move the RED highlight with the outer MENU buttons. Then press the center MENU button to select the feature.

2 Press the MENU ring and center MENU buttons to highlight and turn ON (>>) the INCREDIBLE SURROUND mode.

3 Press the STATUS button to clear the screen.





DISPLAY VOLUME

Tse the DISPLAY VOLUME Control to see the TV's volume level settings on the TV screen. Once set the Volume Display will be seen each time the VOLUME buttons (on the TV or remote) are pressed.

(BEGIN)

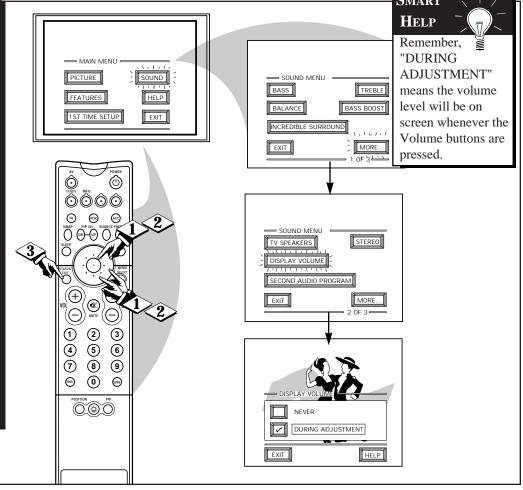
1 Select DISPLAY VOLUME control.

With SOUND MENU (2 of 3) on screen, move the RED highlight with the outer MENU buttons. Then press the center MENU button to select the feature.

 $\langle 2 \rangle$ Press the MENU ring and center MENU buttons to highlight and turn ON () the DISPLAY VOLUME control.

3> Press the STATUS button to clear the screen.





TV SPEAKERS

Jould you like to hear TV programs through your audio hi-fi system? The TV's Variable Audio Output jacks and TV Speaker On/Off control work together to offer you this TV sound option.

(BEGIN)

1 Connect the R(ight) and L(eft) VARIABLE AUDIO OUT jacks on the TV to the R and L Audio Input jacks on your amplifier or sound system.

Set the audio system's volume to normal listening level.

- **2** Turn the TV and audio system ON. You can now adjust the sound level coming from the audio system with the Volume AV buttons on the TV or remote.
- 3 To hear the TV sound from only the audio system speakers, select TV SPEAKERS control.

With SOUND MENU (2 of 3) on screen, move the RED highlight with the outer MENU buttons. Then press the center MENU button to select the feature.

Press the MENU ring and center MENU buttons to highlight and turn OFF () the TV SPEAKERS control.

You should now only hear TV sound coming from the audio system speakers.

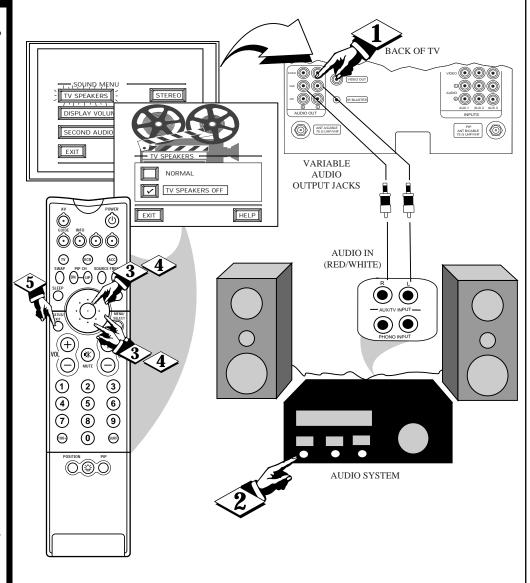
5 Press the STATUS button to clear the screen.

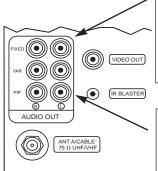


SMART HELP

Remember, the audio system may have to be in AUX(iliary) mode to play sound from the TV (Outputs).

Note: When the TV SPEAKER control is set to "NORMAL" (for TV speaker operation) make sure the VARIABLE AUDIO OUTPUT control (see next page) is also set to "STEREO" in order for the TV's AUDIO OUTPUT jacks to work properly.





NOTE: The TV's FIXED AUDIO OUTPUT jacks can also be used for the playback of TV program sound with an external audio amplifier, or home theater hi-fi system, Connection of the FIXED AUDIO OUT(puts) is similar

to the Variable Audio Outputs (as shown above). However, specific sound level adjustments will be made with the controls at the external amplifier or home sound system (instead of through the TV's audio level controls.)

NOTE: The TV's PIP AUDIO OUTPUT jacks can also be used for additional stereo playback options such as wireless transmitter headphone hook-up, or as an external amplifier connection source. However, with normal PIP feature operations (when

the ANT A and ANT B Input sources are connected for use), the PIP AUDIO OUTPUTs will switch from stereo to monaural (mono) sound. Stereo sound will only be available with the TV's Main screen (or ANT A supplied signal) at that time.

SURROUND SOUND

By adding optional external speakers to the TV's sound system, you can create the feeling of reflected sound that surrounds you at a movie theater or concert hall.

(BEGIN)

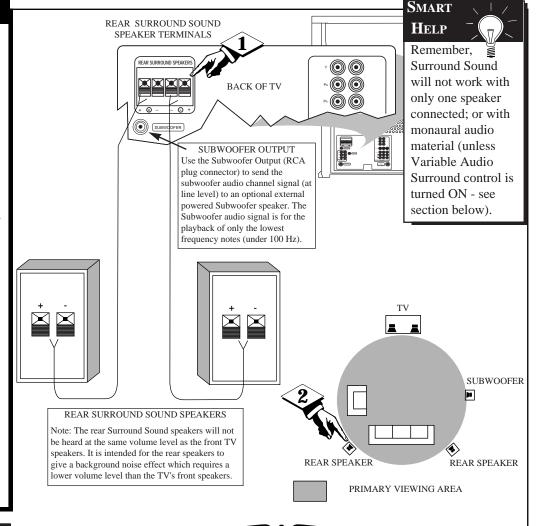
Speakers to the speaker wire terminals on the TV.

Recommended speakers: 80hm, 15 watt minimum. Be sure the (+) and (-) speaker wires are connected to the correct R(ight) and L(eft) speaker terminals on the TV.

- Place the speakers so the viewing area is between the TV and the rear surround speakers. (See overhead view drawing.)
- 3 Turn TV ON and place the STEREO control to the "STEREO IF AVAILABLE" (▶) position.

After setup whenever a stereo signal is received the audio will be heard in Surround Sound.





VARIABLE AUDIO OUTPUT

The TV's Variable Audio Output jacks can also be used for Surround Sound. Once they are connected to an external hi-fi system its speakers can be used for the playback of Surround Sound.

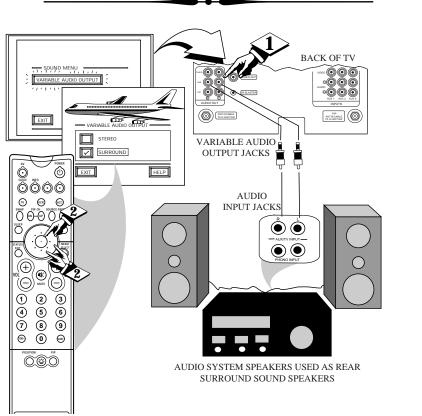
(BEGIN)

- VARIABLE AUDIO OUT jacks on the TV to the R and L Audio Input jacks on your amplifier or sound system.
- VARIABLE AUDIO OUTPUT on screen control to the SURROUND

 () position. (Sound Menu 3 of 3).

Note:This will change the Left/Right channel audio line level signal at the Audio Output jacks to the same signal found at the TV's Surround Sound Speaker terminals.





OPTIONAL SURROUND SOUND CONNECTIONS

Extra speaker connections have been supplied on the rear of the TV. These extra connections are especially important for some of the optional Amplifier and multispeaker arrangements that are possible with Dolby Pro Logic Surround Sound audio features.

For example: With the Surround mode six speakers are needed to complete the setup for proper DOLBY SURROUND sound playback-

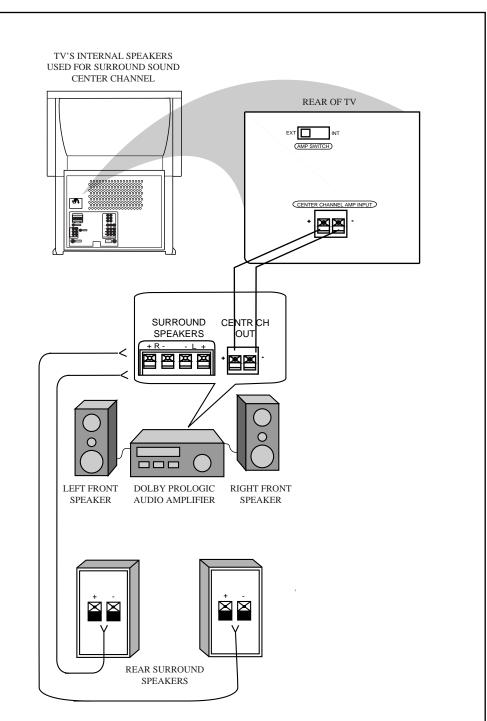
- 2 Front Left/Right Speakers
- 1 Center Channel Speaker
- 2 Rear Surround Speakers

The Front Left/Right, Center, and Rear Surround Speakers have their signals supplied by the connections located on the back of the Dolby ProLogic Audio Receiver.

Note: A CENTER CHANNEL AMP(plifier) INPUT is also located on the TV. This input can be used to connect the external Audio Receiver's Center Channel Output in order to play Center Channel sound through the internal TV speakers.

When an Audio Receiver is used as the audio source for the CENTER CHANNEL AMP INPUT:

• Place the TV's AMP SWITCH to the EXTERNAL position



USING THE AUDIO/VIDEO INPUT JACKS

AUX 1 VIDEO INPUTS

The TV's Audio/Video Input jacks are for direct picture and sound connections between the TV and a VCR (or Video Disc Player, etc.) that has Audio/Video Output jacks.

To view the playback of a VCR tape by using the Audio/Video Input jacks on the TV:

(BEGIN)

from the VCR to the AUX 1
VIDEO IN jack on the TV.

jacks R(ight) and L(eft) from the VCR to the AUX 1 AUDIO IN jacks on the TV.

3 Select the "AUX 1 VIDEO"
PICTURE SOURCE SELECT
control on the TV.

With the FEATURES MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

Press the MENU ring and center MENU buttons to highlight and select () the AUX 1 VIDEO mode.

Turn the VCR ON and press

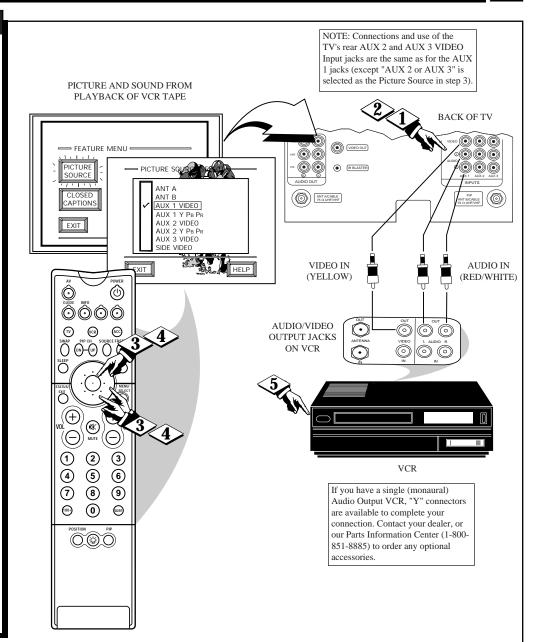
PLAY to view the tape on the TV.



SMART HELP

Remember, after it is connected an easy way to select the AUX 1 VIDEO mode is to press the AV button on the remote. Other Auxiliary modes (AUX 2 VIDEO, AUX 1 Y PB PR, etc.); ANT A/B, and the last channel viewed can also be selected by pressing the AV button.

Also, if you have added AUX 1 VIDEO to the TV's channel memory (see page 14), you can just press the CHANNEL ▲▼ buttons to select the AUX 1 mode.





USING THE AUDIO/VIDEO INPUT JACKS (CONTINUED)

AUX1 - S-VIDEO INPUTS

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

Note: The VCR (or Video Disc Player) must have a S-VIDEO OUT(put) jack in order for you to complete the connections shown on this page.

(BEGIN)

VHS) OUT jack from the VCR to the S-VIDEO AUX 1 IN(put) jack on the TV.

The S-VIDEO connecting cable will be supplied with the S-VHS VCR (or Video Disc Player).

jacks R(ight) and L(eft) from the VCR to the AUDIO AUX 1IN(put) jacks on the TV.

3 Select the "AUX 1 S-VIDEO" | PICTURE SOURCE control.

With the FEATURES MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

The "AUX 1 S VIDEO" picture source option appears only when a S-VIDEO cable has been connected to the TV's AUX 1 IN(puts).

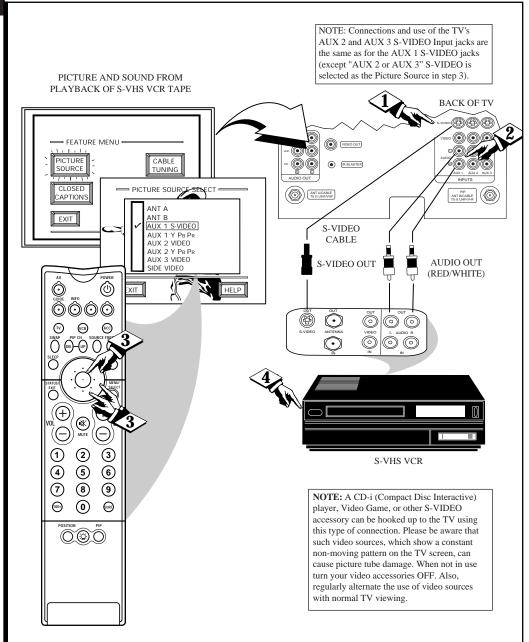
Turn the VCR ON and place it in the S-VIDEO (or S-VHS) playback mode. Insert S-VHS cassette tape and playback in a normal manner.



SMART HELP

Remember, after it is connected an easy way to select the AUX 1 S-VIDEO mode is to press the AV button on the remote.)

Also, if you have added AUX 1 to the TV's channel memory, you can just press the CHANNEL ▲▼ buttons to select the S-VIDEO mode (when active).



Using the Audio/Video Input Jacks (continued)

COMPONENT VIDEO INPUTS

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

BEGIN

PR) VIDEO OUT jacks from the DVD player to the (Y PB PR) VIDEO IN(put) jacks on the TV.

- 2 Connect the AUDIO OUT

 jacks R(ight) and L(eft) from the

 DVD player to the AUX 1 AUDIO

 IN jacks on the TV.
- 3 Select the "AUX 1 Y PB PR" PICTURE SOURCE control on the TV.

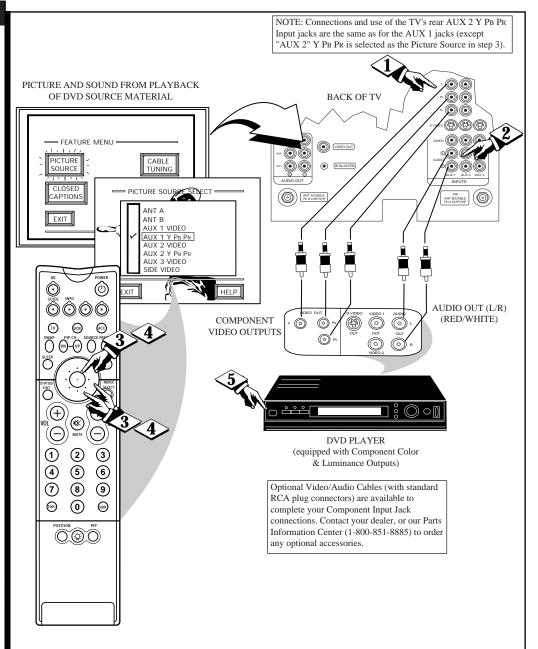
With the FEATURES MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

- Press the MENU ring and center MENU buttons to highlight and select () the AUX 1 Y PB PR mode.
- Turn the DVD player ON and press PLAY to view the source material playback on the TV.



SMART HELP

The description for the component video connectors may differ depending on the DVD player or accessory digital source equipment used (e.g. Y PB PR; R-Y/B-Y/Y; Cr/Cb/Y, etc.). 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.



Using the Audio/Video Output Jacks (continued)

AUDIO/VIDEO OUTPUTS

The Audio/Video Output jacks on the TV can be used to record TV programs on VCRs which have Audio/Video Input jacks.

To record TV programs by using the Audio/Video jacks on the TV:

(BEGIN)

- Connect the VIDEO OUT jack from the TV to the VIDEO IN jack on the VCR.
- jacks R(ight) and L(eft) from the TV to the AUDIO IN jacks on the VCR.
- Select the "ANTENNA A"
 PICTURE SOURCE control on the TV.

With the FEATURES MENU on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

Select the channel on the TV that you want to record.

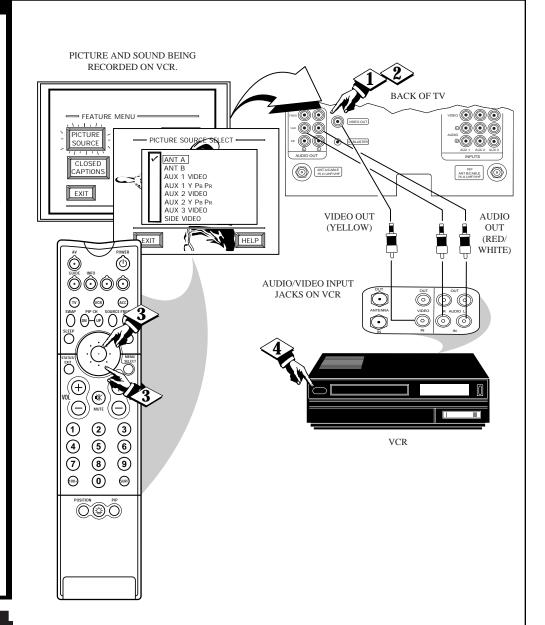
Turn the VCR ON. Put a cassette tape in the unit and place the VCR in the RECORD mode.



SMART HELP

Remember, If the VCR has an INPUT SELECTOR switch, place it in the LINE or CAMERA position.

Unattended Timer Recordings with a VCR are possible, but not recommended with this connection since the TV must be left ON for the VCR to record.



REMOTE CONTROL OPERATION

AUTO PICTURE

With Auto Picture you can set a number of video and audio controls to your own personal preference. Once the individual controls have been adjusted to the levels you desire, use the list of Auto Picture feature category titles to quickly reselect these "personalized" settings contained within the memory of the TV. (See the next page for more details on the labeling options and use of Auto Picture.)

(BEGIN)

Press the AUTO button on the remote.

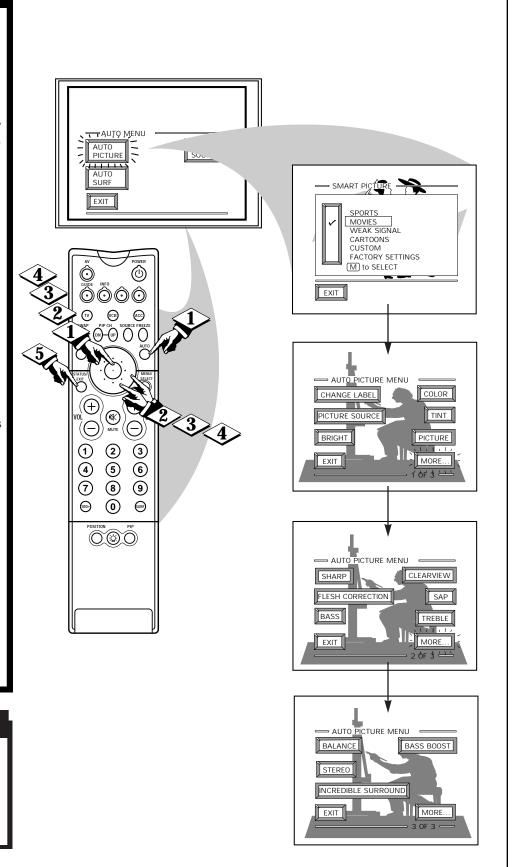
Press the center MENU button to select the Auto Picture feature (highlighted in RED).

- and bottom) buttons to highlight the category list for Auto Picture. Press the center MENU button to select
- Press the MENU ring buttons to choose any of the individual controls you wish to adjust for the Auto Picture selected title. Then press the center Menu button to select the highlighted control.
- Press the Menu ring and center Menu buttons to adjust the selected control.
- Fress the STATUS button on the remote to clear the screen after you have finished with all of your Auto Picture feature control adjustments.



SMART HELP

Note: Select the "FACTORY SETTINGS" category to automatically return the TV to the video and audio control levels preset at the factory prior to product shipment.



REMOTE CONTROL OPERATION (CONTINUED)



AUTO PICTURE

Following your initial setup adjustments (see previous page), just select the desired Auto Picture category in order to place the TV to the personalized set of audio and video control settings for that title.

BEGIN

Press the AUTO button on the remote.

Then press the MENU button to select the AUTO PICTURE control feature.

(top and bottom) buttons with the list of "AUTO PICTURE" categories on the TV screen to highlight the desired category. Then press the center Menu button to select the audio and video control settings for that particular title.

3 Press the STATUS button on the remote to clear the screen.



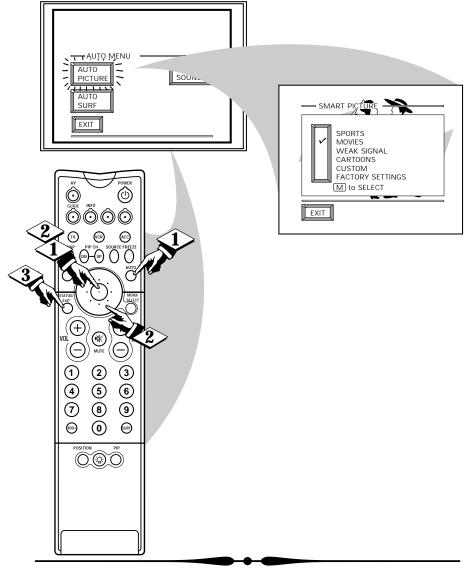
CHANGE LABEL

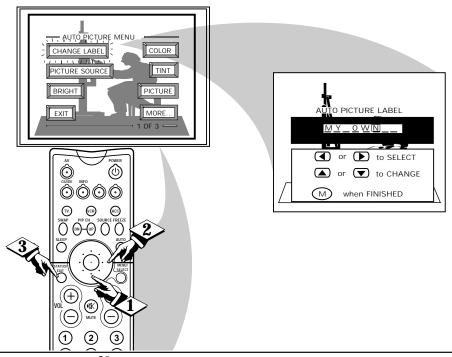
The "CHANGE LABEL" control can be used to change the title of a AUTO PICTURE setting into a name or label that may be easier for you to remember.

BEGIN

- "CHANGE LABEL" control on the screen, press the outer MENU ring (top and bottom) buttons to spell out a new label or title for the selected AUTO PICTURE category.
- Press the outer MENU ring (left and right) buttons to move the red highlight to each letter space.
- Press the STATUS button to clear the screen when the new label is finished.









REMOTE CONTROL OPERATION (CONTINUED)

AUTO SOUND

re you tired of the sound of **1** commercials following you throughout the house? Auto Sound allows you to preset a desired volume level that the TV sound will not go above. This makes for an even, more consistent sound by reducing the "peaks" and "valleys" that can occur during commercials.

BEGIN

remote.

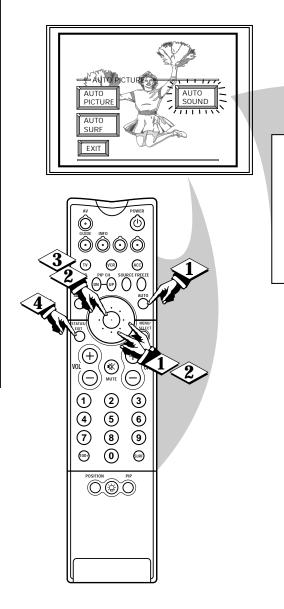
- 2 With the AUTO Menu on screen, move the RED highlight with the outer MENU buttons. Then press the center MENU button to select the highlighted Auto Sound control.
- 3 Press the Menu ring and the center Menu buttons to turn the Auto Sound control ON (or OFF.)
- **4** Press the STATUS button to clear the screen when completed.



SMART HELP

Remember, Auto Sound works for sound levels coming from either the Antenna/Cable input on the rear of the TV (RF audio); or the Auxiliary (VCR/AUX IN) audio inputs.

When using a Cable Converter Box with the Auto Sound Control ON, the TV's volume level may take up to ten seconds to gradually increase to normal listening levels (when the TV's first turned on). This is considered NORMAL with various Cable Converter Box use.



OFF

HELP

EXIT



REMOTE CONTROL OPERATION (CONTINUED)

 $\bigcirc \otimes \bigcirc$



2-CHANNEL SURF/AUTO SURF

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 Auto Surf control allows you to set up to 10 channels in its quick viewing "list".

BEGIN

Press the AUTO button on the remote.

- With the AUTO Menu on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the highlighted Auto Surf control.
- Press the Menu ring then the center Menu button to select either Auto Surf or 2-Channel Surf. (See explanation of Surf options with the illustration on this page.)
- Press STATUS button on the remote control to clear the screen.



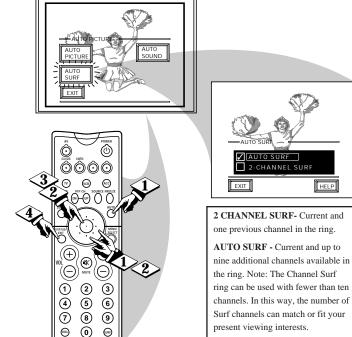
How To Use Auto Surf

(BEGIN)

- With the Auto Surf control ON (see above), select a desired channel for viewing. You can use the number buttons on the remote (or the Channel ▲▼ buttons).
- Press the SURF button on the remote. (Some channel numbers may already appear within the Surf channel list.)
- Press the center Menu button to "ADD" the selected channel to the Surf list.

Select the next desired channel and repeat steps 2 and 3. Continue until all desired channels are on the Surf list.

Press the SURF button on the remote to quickly review current action on channels contained within the Surf list.

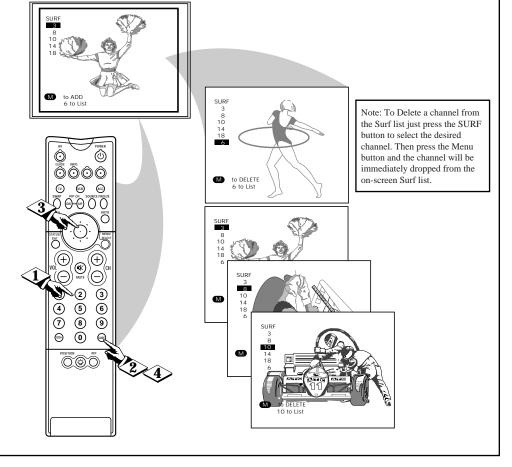


SMART HELP



To Use 2-Channel Surf:

With the 2-Channel Surf control ON, select the two desired channels for viewing with the number buttons on the remote control. Then press the SURF button on the remote to "toggle" between the two selected channels.





SETTING THE TV REMOTE TO WORK ACCESSORY DEVICES

Vour remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable TV Converter Boxes, DVD players, Home Satellite receivers, etc. However, an easy one-time step may be necessary before the remote will work with your accessory device.

To begin, try this initial check to see if going on to the following section is necessary.

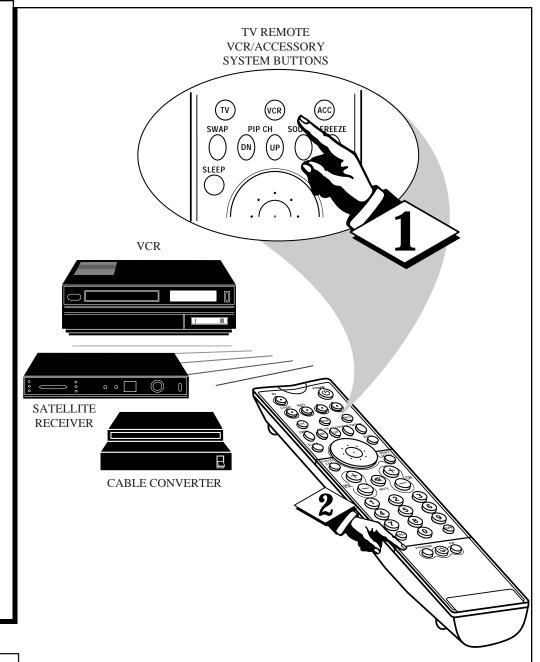
(BEGIN)

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

> Note: The ACC(essory) system button contains product codes for Cable TV Converters, DVD players, and Satellite receivers.

- **2** Point the TV remote toward the desired accessory device and press the POWER button.
- $\langle 3 \rangle$ Does the remote turn the accessory device ON? IF YES, so and try other function buttons on the TV remote. If they also work the accessory device, then the remote is ready and no further steps are needed.

If NO, continue...





1> First look up a **THREE-DIGIT** remote code number for your brand of Accessory Device before going through the simple Direct Access Method steps shown on the following page.

> Find your Three Digit Code Number on pages 45-46.

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 correct code.

SETTING THE TV REMOTE TO WORK ACCESSORY DEVICES



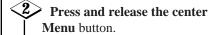
DIRECT ACCESS METHOD

Tow that you have looked up the three-digit Remote Code Number for your brand of accessory device (see page 45-46), you are ready to follow the simple steps shown below.

Please read through all the steps before beginning.

BEGIN

Press and release the correct VCR or ACC(essory) System button.



3 Within **thirty seconds** after releasing the center Menu button, ENTER THE THREE **DIGIT CODE NUMBER** for the desired device. The remote is now ready to send commands to the accessory.

4 Point the remote at the accessory device. Press the POWER button on the remote to turn the device ON.

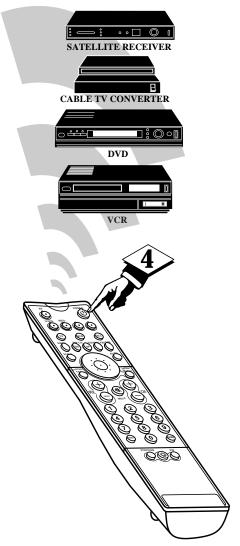


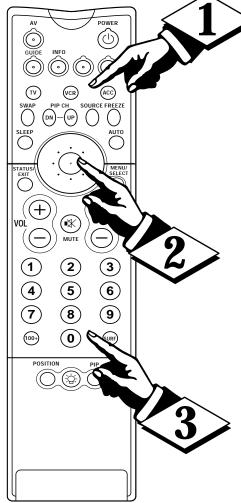
SMART HELP

Remember, if this does not work the first time, repeat steps using the same remote code number.

If after a second try the remote does not operate your accessory device, and there are more code numbers listed for your brand, use the next listed code number.

If after repeated attempts the code number method does not work your accessory device, try the "SEARCH METHOD" shown on the following page.





Note: For TV remote's equipped with a backlight option, the unit may "blink" or flash as the three-digit Direct Access code numbers are entered on the keypad. (Two blinks indicate a valid code number entry has been accepted; one long blink indicates an invalid code number or the thirty second time interval for entering code numbers has expired.)



SETTING THE REMOTE TO WORK OTHER DEVICES - SEARCH

SEARCH METHOD

Your TV remote can be set to **I** work various accessory devices (VCRs, Cable Converters, Satellite Receivers) by what is called the SEARCH method. Note: The Search Method only works with devices equipped with Channel Display Indicators or capability. If the "Direct Access" code number method (shown in the previous section) did not set your remote to work your accessory device, then follow the easy steps listed below.

(BEGIN)

- 1> Turn ON the desired device. Press the correct VCR or ACC system button on the remote.
- **2** Stand at least six feet away from the front of the accessory device. Point the remote toward the unit. HOLD DOWN the SURF and the desired System (VCR or ACC) buttons at the same time. KEEP HOLDING BUTTONS DOWN.
- **3** Watch the Channel Indicator on the unit. Channel Numbers will SCAN UP when the unit has been identified. This may take up to two minutes.
- **4** Release the SURF and System (VCR or ACC) buttons as soon as channel numbers start to scan up. The code has been identified and the remote is ready to operate with the accessory device.

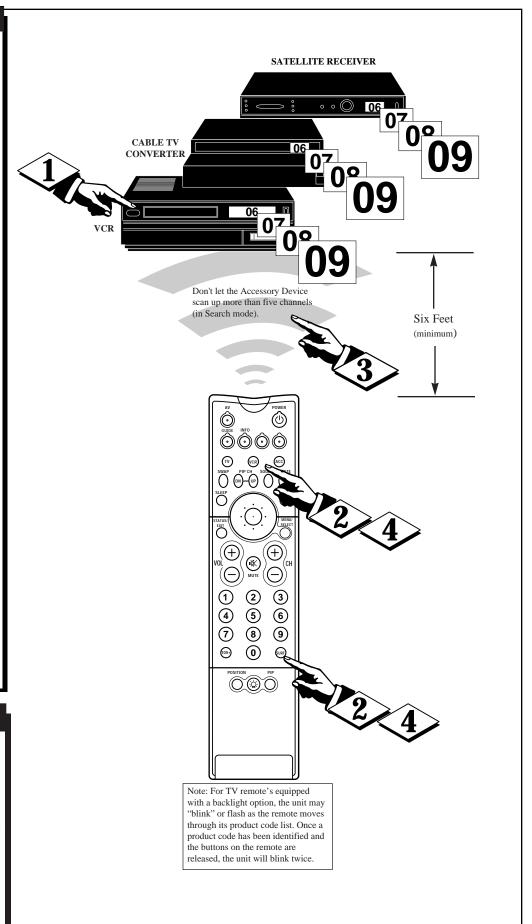


SMART HELP

Remember, a minute or two can seem very long, but the code should be located within two minutes

Don't let the accessory device scan up more than five channels. 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 with the desired unit.



REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES



Admiral. 0.75	VCR BRAND REMOTE CODE NO.	VCR BRAND REMOTE CODE NO.	VCR BRAND REMOTE CODE NO.
Adventura 0.27 Logis 0.99 STS 0.69 Alixo 3.365 MEI 0.062 Salora 1.02 Alixo 3.34 4.95, 0.17, 0.64 MGA 0.70, 0.88, 267 Samsung 267, 0.72, 0.80, 0.06, 0.75 American High 0.062 MTC 0.27, 267 Samsung 267, 0.72, 0.80, 0.06, 0.75 American High 1.062 Magnawox 0.62, 108, 137, 130, 0.27, 0.66, 107 Samsung 0.267, 0.72, 0.80, 0.06, 0.75 Andicrox 0.064 Magnawox 0.62, 108, 137, 130, 0.27, 0.61, 176 Scars 3.05, 0.68, 109, 298, 0.27, 0.94 Magnawox 0.62, 108, 137, 130, 0.27, 0.61, 176 Scars 3.069, 132, 0.81, 0.74, 0.27, 0.61, 176 Scars 3.069, 132, 0.81, 0.74, 0.27, 0.61, 0.75 Scars 3.069, 132, 0.81, 0.74, 0.27, 0.61, 0.75 Scars 3.069, 132, 0.81, 0.76, 0.77 Scars 3.069, 132, 0.81, 0.75, 0.77 Scars 3.069, 132, 0.81, 0.77 Scars 3.069, 132, 0.77 Scars 3.069		Lloyd's 027, 235	
Aiko			STS
Aiva.		ě .	
Akai 133, 080, 076, 088, 183, 269, 068 MTC 0.27, 267 Asaha 267 Aadiovox 0.64 Asha 267 Aadiovox 0.64 Magnasonic 3.05 Sanyo 0.73, 074, 131, 267 Aadiovox 0.64 Magnasonic 3.05 Sanyo 0.73, 074, 131, 267 Magnasonic 3.05 Sanyo 0.73, 074, 131, 267 Magnasonic 3.05 Sanyo 0.73, 074, 131, 267 Magnasonic 2.05 Sanyo 0.73, 074, 131, 267 Magnasonic 3.05 Sanyo 0.05, 064, 065, 062 Semp 0.75, 089 Sogut 0.73, 074, 075 Sogut 0.75, 089 Sogut			
American High			•
Ashla 267			•
Audiovox			
Bell & Howell		•	
Bell & Howell 313			
Broksonic 211, 148, 388, 029, 236, Maratz 108, 065, 062 Semp 072 O75, 089 C2 C2 C3 C3 C3 C3 C3 C3			
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CCE			*
Calix			
Canon. 194, 062, 129 267, 334, 073, 066, 828, 829 Singature 0.62 Capehart. 0.47 Minolta 132, 069 Singer. 0.99 Carver 1.08 Mitsubishi 070, 088, 200, 241, 102,	· ·		
Capelbart			•
Cairer			
Citizen	1		e e e e e e e e e e e e e e e e e e e
Citizen	Cineral		•
Colt			÷
Craig			•
Curtis Mathes 062, 068, 087, 189 NAP .060, 061, 062, 064, 066, 069, Cybernex Tatung .068 Cybernex .078, 267 .093, 132 Teac .027, 068 Daewoo .305, 588, 047, 072 NEC .065, 067, 068, 077, 094, 109, 131 Technics 062, 189, 273, 066, 087, 229, 254 Daytron .069 Nikkon .064 Technics .02, 189, 273, 066, 087, 229, 254 Dynatech .027 Noblex .267 Toshiba .072, 239, 237, 093, 393, 070 Electrohome .064 Olympus .062, 253 Totevision .064, 267 Electrophonic .064 Optimus .827, 828, 085, 829, 075 Unitech .267 Emerso .211, 029, 148, 236, 063, 238, Optonica .089 .064, 459, 131, 189, 481 Unitech .267 Emerson .211, 029, 148, 236, 063, 238, Optonica .089 .070, 202, 299, 182, 282, 253, 104, 189, 243 .089 Video concepts .067, 088, 248, 072 Fisher .074, 131, 081, 093 .056, 282, 253, 104, 189, 104, 481 .072, 267, 239, 069, 099, 176, 108 Funia	1		* *
Cybernex	Curtis Mathes 062, 068, 087, 189	NAP 060, 061, 062, 064, 066, 069,	
Daytron			_
Denon	Daewoo 305, 588, 047, 072	NEC 065, 067, 068, 077, 094, 109, 131	Technics 062, 189, 273, 066, 087, 229, 254
Dynatech	Daytron	Nikko	Teknika 027, 062, 079, 064
Electrohome.	Denon	Nikon	Thomas
Electrophonic	Dynatech	Noblex	Toshiba 072, 239, 237, 093, 393, 070
Emerex 059	Electrohome	Olympus	Totevision
Emerson . 211, 029, 148, 236, 063, 238,	Electrophonic	Optimus 827, 828, 085, 829, 075,	Unitech
305, 321, 115, 235, 506, 088, 239,	Emerex		Vector
.588, 095, 322, 388, 537, 027, 064, 070	Emerson . 211, 029, 148, 236, 063, 238,	Optonica	Vector Research
Fisher 074, 131, 081, 093	305, 321, 115, 235, 506, 088, 239,	Orion 506, 322, 029, 211	
Fuji 060, 062 Penney 062, 267, 064, 065, 069, 067, 081			
Funai 027 Pentax 092, 069, 132 White Westinghouse 305 GE 062, 087, 092, 229, 075, 267 Philco 062, 506, 236 XR-1000 099, 027, 062 Garrard 027 Philips 108, 062, 089, 137, 803, 804 Yamaha 065, 068 Go Video 306, 259, 459, 553 Pilot 064 Zenith 066, 060, 061, 027, 506 GoldStar 064, 045, 065, 498, 507 Pioneer 085, 195, 094 Gradiente 035, 027, 435 Portland 047 Grundig 222 Profitronic 267 HI-Q 074 Proscan 087, 229 Harley Davidson 027 Protec 099 Harman/Kardon 108, 065, 102 Pulsar 066, 078 Hadquarter 073 Quartz 073 Hitachi 069, 193, 132, 092, 423, 027, Quasar 062, 189, 104, 481, 828	I		
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Kodak			
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·	221	10011	



REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES

CABLE CONVERTER REMOTE CODE NO.	CABLE CONVERTER REMOTE CODE NO.	SATELLITE RECEIVER REMOTE CODE NO.
ABC030, 035, 038, 040, 028, 034,	SL Marx	Philips
	Samsung	Pico
Allegro	Scientific Atlanta035, 044, 504	President
Antronix	Seam	Primestar
Archer	Signal	Proscan
BBT	Signature	RCA
Belcor	Sprucer	Radio Shack
Bell & Howell041	Starcom	Ramsey
Cable Star	Stargate	Realistic
Cabletenna	Starquest	STS
Cableview	Sylvania	Sony
Century	TFC	Star Choice
Citizen	TV86090	Star Trak
Colour Voice	Tandy	Toshiba
Comtronics	TeleCaption	Uniden .265, 397, 079, 101, 751, 103, 749
Contec	Teleview	Zenith
Digi	Texscan	
Eastern	Timeless	DVD BRAND REMOTE CODE NO.
Emerson824	Tocom	Harman/Kardon
Everquest	Toshiba	JVC
Focus	Tusa	Kenwood865
GC Electronics	Unika	Magnavox
Garrard	United Artists	Mitsubishi
Gemini	Universal	Onkyo
		Optimus
General Instrument303, 503, 038, 837	Viewstar	Panasonic
GoldStar	Zenith 027, 552, 081, 035, 042, 234	
Goodmind	Zentek	Philips
Hamlin	CAMELLINE DECEMBED DEMONE CODE NO	Pioneer
Hitachi	SATELLITE RECEIVER REMOTE CODE NO.	Proscan
Hytex	AlphaStar	RCA 862
Jasco	Amplica	Samsung
Jerrold030, 039, 303, 038, 041, 042,	Amway	Sony
051, 503, 837	Astro Industries	Technics
Linsay	BSR	Toshiba
Magnavox	Capetronic	Yamaha
Memorex	Channel Maste	Zenith
Movie Time	Chaparral	
NAP	Curtis Mathes	LASER DISC REMOTE CODE NO.
NSC	DX Antenna	Aiwa855
Novaplex	Drake	Carver
Oak046, 034	Echostar	Denon
Optimus	Expressvu802	Disco Vision
Panasonic	General Instrument	Funai855
Panther	HTS802	Harman/Kardon
Paragon	Hitachi846	Hitachi
Philips	Homecable	Magnavox
Pioneer	Hughes Network Systems	Marantz
Popular Mechanics	Hytek	Mitsubishi
Proscan	IQ237	NAD849
Pulsar	IQ Prism	Panasonic856
Quasar	JVC802	Philips
RCA	Janeil	Pioneer
Radio Shack824, 042, 342, 847	Jerrold	Quasar
Realistic	Legend	Realistic855
Recoton	Macom	Sam
	Magnavox	Sony
Regal	Memorex	•
Regency	Next Level	Technics
Rembrandt	Panasonic	Theta Digital853
Runco	1 anasonic	Yamaha857

USING THE REMOTE'S VCR BUTTONS



with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method - see earlier sections).

(BEGIN)

Press the VCR System button on the remote.

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



TV-VCR (AV) Button

Press to the VCR position ("VCR"

indicator on the VCR will light) to

view the playback of a tape. Press again to place in the TV position ("VCR" indicator on the VCR will go OFF) to view one program while recording another program.

When used with the television the AV button works as a source button. Each press cycles the TV between the AUX(iliary) Input modes, ANT A/B inputs, and the the last view channel. It is a quick one-button way to select these channels and modes (without directly entering the TV's Menu system.)

Status/Exit Button

Press to clear the screen of menu controls or display a feature operation status screen.

Record/VCR Plus+ Button

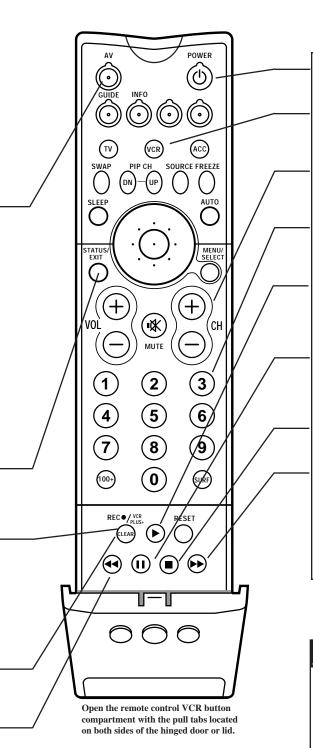
Press the RECORD button to start a recording (with some VCR models you may also need to press the PLAY button on the remote to begin recording). Also use this button to set timer recordings with the VCR Plus+programming system.

Clear Button

Press to erase incorrect entries or data when programming VCR functions.

Rewind Button

Press to rewind tapes. For some VCRs you may need to press STOP button first then REWIND. In playback mode, hold button down to view picture moving rapidly in reverse.



Power Button

Press to turn the VCR ON and OFF.

VCR System Button

Press to send remote commands to the VCR.

Channel Scan Buttons

Press to scan up or down through VCR channel numbers.

Number Buttons

Press buttons for direct VCR channel selections.

Play Button

Press to playback a tape. Hold down after pressing the RECORD button to start a recording.

Pause Button

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

Stop Button

Press to stop the tape.

Fast Forward Button

Press to rapidly advance the tape. For some VCRs you may need to press STOP first then FF. In Playback mode hold button down to view the picture moving rapidly in the forward direction.

SMART HELP

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

How to Use the Picture-In-Picture (PIP) Feature

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). For your ease and convenience this TV has two separate inputs (ANTenna A and ANTenna B) for your home's Antenna and/or Cable TV system signal.

The ANT A input is primarily for the TV's main screen picture.
The ANT B input is provided as a second, dedicated source option for the TV's PIP "window" and its feature operations. The signal connected to the ANT B input can be either a Split Signal Input (as described in the section on this page), or another type of external signal source (such as a satellite dish system, additional home antenna, video accessory, etc.).

See the following steps on how channels connected to the ANT(enna) B Input can be shown and used within the PIP window:

(BEGIN)

Connect your Antenna or Cable TV signal to the single 75 ohm INPUT plug on a two-way Signal Splitter (not supplied).

Connect two lengths of RF Coaxial Cable (F-type connectors on both ends) to the two OUTPUT plugs on the two-way Signal Splitter.

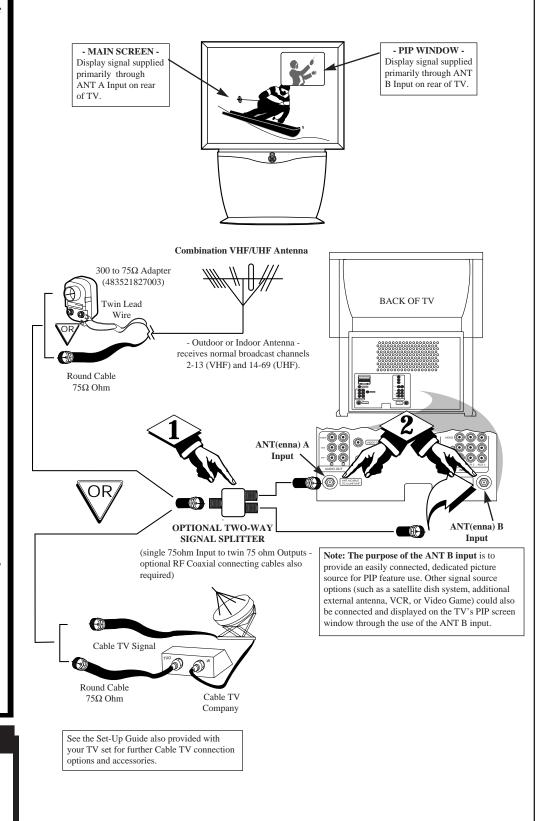
2 Connect the twin OUTPUT plugs on the Signal Splitter to the ANT A and ANT B Inputs on the rear of the TV.

continue to next page

SMART HELP

For other possible PIP connections see page 53 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) for details.





Tow that you have completed the required connections on the previous page you are ready to follow the simple steps shown below.

Turn the TV ON.

Place the TV's PIP SOURCE SELECT control to "ANT B"-

Press the PIP Source button on the remote to select "ANT B" as the PIP source, (or use the FEATURES MENU 4 of 5 control screen to select the PIP Source Select item as ANT B.

Also place the TV's Main screen PICTURE SOURCE SELECT control to "ANT A"-

See the Picture Source option FEATURES MENU (1 of 5).

Press the STATUS button to clear the screen when the above Menu items have been set.

4 Press the PIP ON/OFF button on the remote.

The PIP window should show in one of the corners of the TV screen.

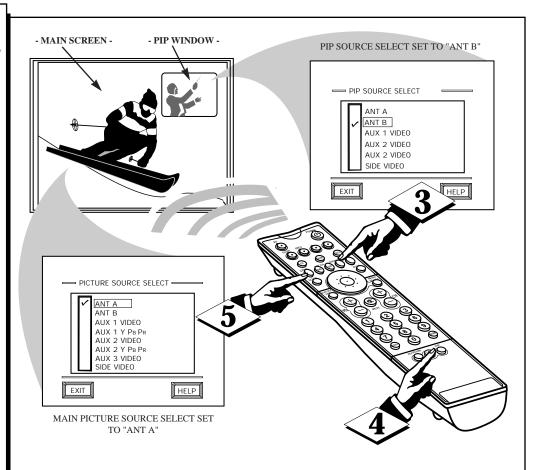
5 Press the SWAP buttons on the remote to move the ANT B and ANT A Input pictures between the PIP window and Main screen.

> Use the PIP CH(annel) Up and Down buttons to select desired programs for viewing in the PIP window. Program Sound occurs with the channels displayed on the Main screen.

SMART HELP

Remember, if you see the same picture on the main screen and in the PIP window. check to be sure the TV's PIP Source Select and Main screen Picture Source select are set for ANT B and ANT A respectively.

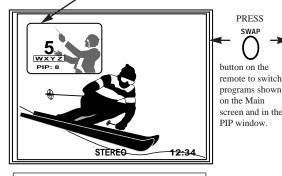
See the following page on how to operate other PIP features with the TV's remote control.



PRESS

SWAP

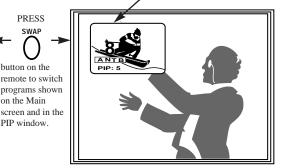
BLACK frame around the PIP window appears when the ANT A Input is on the Main screen.



Main Screen is CH 5 from ANT A input.

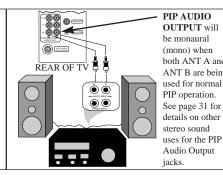
PIP is CH 8 from ANT B input

WHITE frame around the PIP window appears when the ANT B Input is on the Main screen.



- Main Screen shows CH 8 from ANT B input.
- PIP is CH 5 from ANT A input.

NOTE: Sound for TV programs displayed in the PIP window can also be heard through the use of PIP AUDIO OUT jacks on the rear of the TV. Just connect the TV's Left/Right PIP AUDIO OUTPUTs to the correct AUX(iliary) Inputs on an external stereo sound system (through which the PIP audio will be played).



OUTPUT will be monaural (mono) when both ANT A and ANT B are being used for normal PIP operation. See page 31 for details on other stereo sound

USING PIP WITH THE REMOTE CONTROL

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

(BEGIN)

1 Press the PIP ON/OFF button to show the PIP picture.

PIP appears in a corner of TV screen. Press PIP ON/OFF again to remove PIP from the main screen.

2 Press the PIP POSITION
button to move the PIP picture
(from corner-to-corner on the TV
screen.)

This feature allows you to move PIP and avoid blocking off any main screen action.

- With PIP on the TV screen, press the SWAP button to swap the main screen picture with the PIP picture. See "Smart Help" note on this page.
- 4 Press FREEZE to hold the current MAIN screen picture in the PIP window (Main picture is still active).

If PIP is currently OFF, the PIP window will automatically appear.

Press FRZ repeatedly to update the frozen PIP with current pictures from the Main screen.

You cannot reposition a frozen PIP picture.

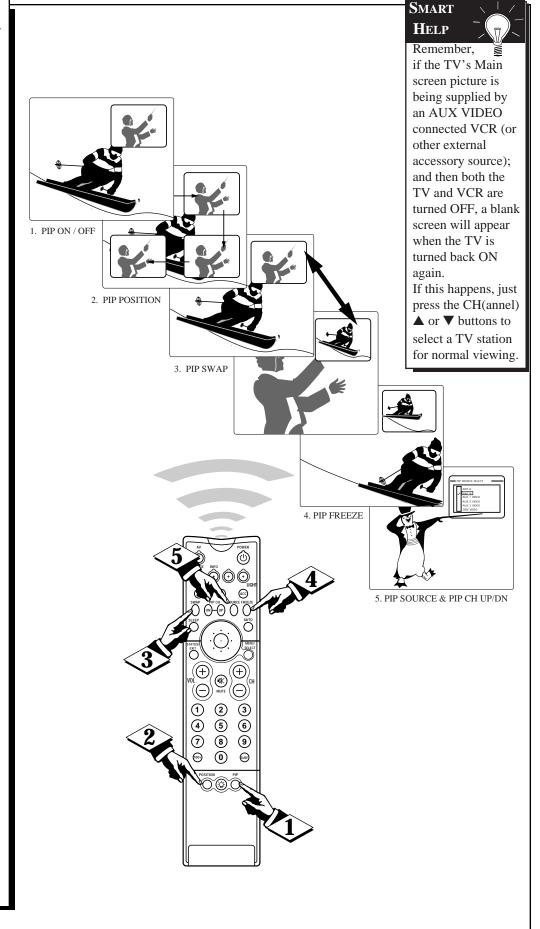
Press the PIP ON/OFF button to drop the frozen PIP picture from the screen.

5 Press the PIP SOURCE

button to change the signal input source (ANT B, etc.) for the PIP window shown on the TV screen.

Press the PIP CH(annel) Up and Down (DN) buttons to select channels shown within the PIP window (when an antenna/cable signal source is connected for use with PIP).





SELECTING THE PICTURE SOURCE FOR PIP



PIP SOURCE

The picture for the PIP window **I** can come through either the ANT(enna) A / B Inputs or the AUX Video Inputs (on the rear and side of the TV). PIP Picture Source simply tells the TV which one of these sources it is to show in the PIP window.

(BEGIN)

1 Select PIP SOURCE control.

With FEATURES MENU (4 of 5) on screen, move the RED highlight with the outer MENU buttons. Then press the center MENU button to select the feature.

Note: The remote control's PIP SOURCE button can also be used to quickly select picture source inputs on the rear of the TV for the PIP window.

2 Press the MENU ring and center MENU buttons to highlight and select the desired () PIP Picture Source.

ANT A or B- for a picture signal coming from either the ANT(enna) A or B Input plug on the TV.

AUX 1 (2 or 3) VIDEO - for a picture signal coming from the AUX 1 (2 or 3) VIDEO IN jack on the rear of the TV.

SIDE VIDEO- for a picture signal coming from the SIDE VIDEO Input jack on the right side of the TV cabinet.

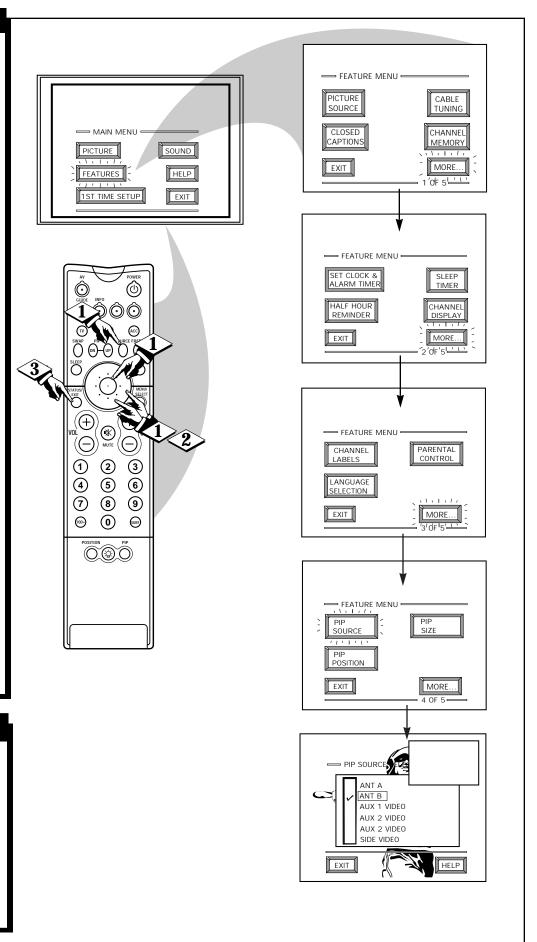
3> Press the STATUS button to clear the screen.



SMART HELP

Remember, the PIP window will be blank unless a signal is connected to the selected PIP Picture Source (ANT B, AUX 1 VIDEO, SIDE VIDEO, etc.) on the set.

If you see the same picture on the main screen and in the PIP window, you may have the Main Screen and PIP window set to the same video input source.



ADJUSTING PICTURE-IN-PICTURE COLOR AND TINT

PIP COLOR / PIP TINT

The Picture-In-Picture (PIP)
Color and Tint controls are
used to make fine tune adjustments
to the color settings for PIP (when
it is shown on the TV screen).

BEGIN

Select PIP COLOR (or PIP | TINT) control.

With FEATURES MENU (5 of 5) on screen, move the RED highlight with the outer MENU ring buttons. Then press the center MENU button to select the feature.

buttons to move the RED highlight. Press the MENU button to turn () the PIP COLOR or TINT control ON.

The PIP automatically comes on to show the PIP window on the TV screen.

- 3 Press the outer Menu ring (Left and Right) buttons to adjust the PIP for Color (or Tint) levels you prefer.
- Press the STATUS button to clear the screen.

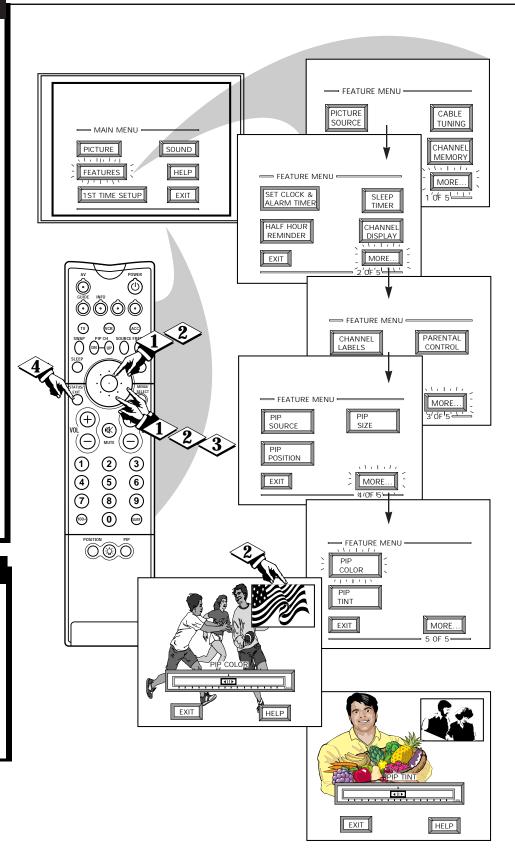


SMART HELP

Remember. Although

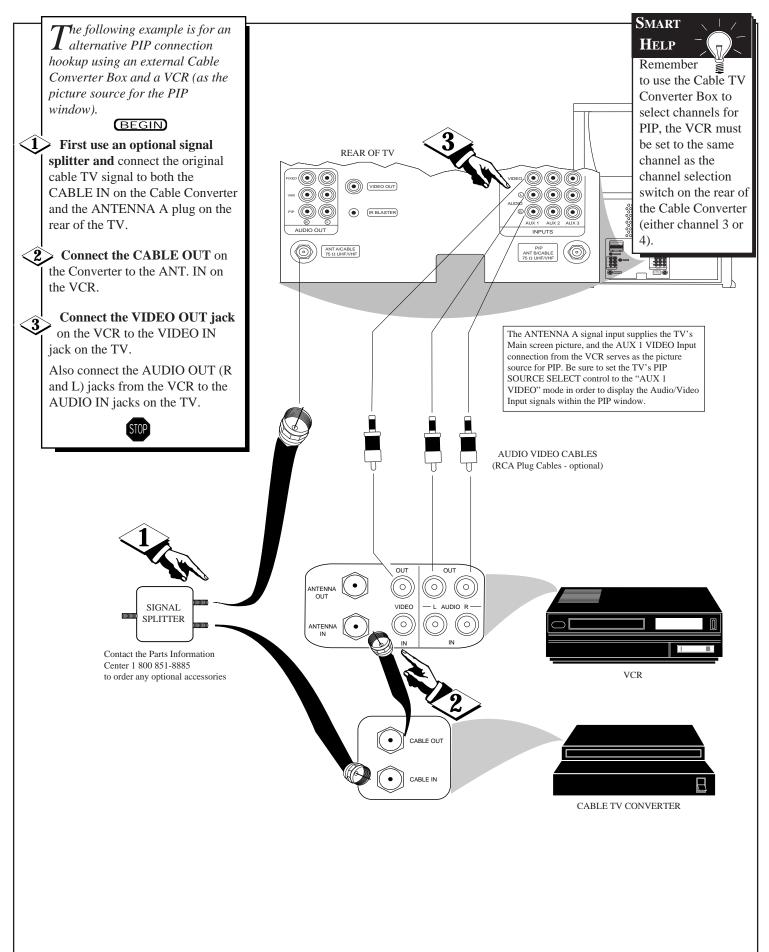
there are separate COLOR

and TINT controls for PIP, the
adjustment levels for these
controls depend on the TV's main
picture. For example: If the main
screen is showing a black and
white picture, PIP would also be
in black and white (even though
its source is in color).



More PIP Connections







The on screen HELP menu Offers both Operating Tips and a list of Glossary definitions for different features on your TV. These items are given to provide you with more information and details on a select group of feature operations.

BEGIN

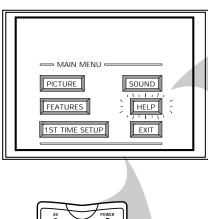
Select "HELP" on the TV's Main Menu.

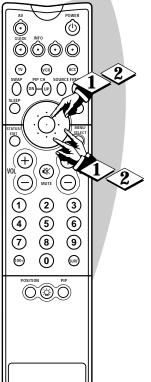
> **Press the outer Menu** buttons to move UP/DOWN and from SIDE-TO-SIDE within the list of on-screen features.

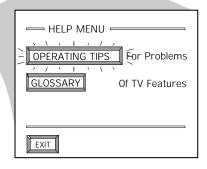
Press the center MENU button to select the highlighted "HELP" item.

2 Press the MENU ring and then the center MENU buttons to select either the OPERATING TIPS or GLOSSARY item.









OPERATING TIPS

USING OPERATING TIPS

- Use the ▲ and ▼ keys on your remote to scroll through the different help items.
- Use the "M" key on your remote will go back to the help menu.

FOLLOW THE ON SCREEN DIRECTIONS TO VIEW OPERATING TIPS

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.

No Power

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.

- Check the TV power cord. Unplug the TV, wait 1 minute, then reinsert plug into outlet and push POWER button again.
- Check to be sure outlet is not on a wall switch.

No Picture

- Check antenna connections on the rear of the TV. Are they properly secured to the antenna plug on the TV?
- Check the CABLE TUNING control for correct position.
- Check PICTURE SOURCE control for correct position ANT A or B; AUX 1/2/3 VIDEO; AUX 1/2 Y PB PR; or SIDE VIDEO position without a signal source will result in a blank screen.
- Check the CLOSED CAPTIONS control. Some TEXT modes could block the screen.

No Sound

- Check the VOLUME and MUTE buttons on the TV and remote.
- Check the TV SPEAKER NORMAL/OFF sound control for the correct position.
- If attempting auxiliary equipment hook-ups, check audio jack connections and that the auxiliary equipment is on and in the proper operating modes.
- Check AMP Switch on rear of TV. Place in INT(ernal) position for normal TV sound. EXT(ernal) for optional Dolby ProLogic Surround Sound connections using the TV's speakers as Center channel.

Remote Does Not Work

- Check VCR-ACC-TV "System" buttons on the remote. Press the remote's <u>TV</u> System button to send commands to the TV; <u>VCR</u> System to sent to VCR; etc.
- 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.

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add desired channel numbers (ADD/DELETE CHANNELS control) into TV memory.
- Check CABLE TUNING control for correct position.

This TV is equipped with protective circuitry that shuts the TV off in case of moderate power surges. Should this occur turn the TV back on by pressing the POWER button once or twice, or unplug and then replug the power cord at the AC outlet. This feature is NOT designed to prevent damage due to high power surges such as those caused by lightning, which is not covered by your warranty.

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- do not use household cleaners). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Specially designed screen cleaning kits are also available which contain anti-static cleaners and cloths designed to get into the ridges of the TV screen. If interested, ask your dealer about an optional Projection TV Screen Cleaning Kit or call our toll-free Accessory Parts ordering number 1-800-851-8885.
- 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 cabinet back.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

GLOSSARY TO TELEVISION TERMS

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.

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.

Display * An on screen message or graphics that help the user operate and adjust TV feature controls. See On Screen Displays (OSD).

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.

LED * Light Emitting Diode or indicator.

Menu * An on-screen listing of feature controls shown on the TV 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.

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

Picture -In-Picture (PIP) * Term used when two pictures are shown on the TV screen at the same time. The smaller PIP picture is supplied by a VCR (or other tuner/video playback source). The PIP picture can also be moved and swapped with the TV's main screen picture.

Pre-Amplifier * The control center of a hi-fi system. Not only amplifies source inputs, but also allows for source selection, volume, tone, balance and all other controls that affect the sound.

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

PTV * Projection Television (Rear and/or Front projection design systems are available.)

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

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

Second Audio Program (SAP) * Another or 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 * Allows the user to quickly confirm what channel number is currently being viewed. Status can also be used to clear the TV of on-screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

Subwoofer * A speaker designed for audio playback of only the lowest-frequency notes (under 100 Hz.)

S-Video Input * Allows direct connection of high-resolution video sources, such as a Super VHS videocassette recorder, Laser Disc player, etc. Provides improved picture resolution, sharpness, and clarity.

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.

Variable Audio Output * An adjustable audio output which allows for volume variations at the source.

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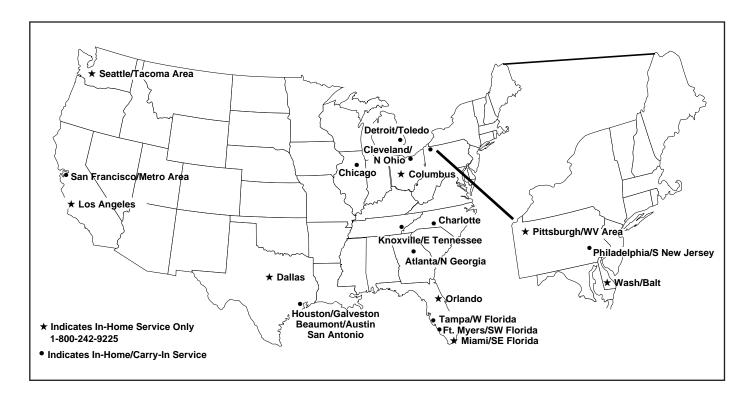
Accessories/Optional	31-37, 48, 53, *Q/U-1
Add/Delete Channels	13-14, *Q/U-2
Audio Controls	27-32
Audio/Video Input	33-37, 48, 53, *Q/U-2
Automatic Programming	13, *Q/U-2
Auto Picture	38-39
Auto Sound	40
Auto Surf	41
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^{*} Q/U indicates page number reference in the separate Quick Use Guide

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 à: 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)

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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 DÉPOTS 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

PROJECTION TELEVISION

One Year Free Labor

One Year Free Service on Parts

Two Years Free Service on Cathode Ray Tube Parts / 30 days Free Service on Projection TV Screen This product can be repaired in-home.

WHO IS COVERED?

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

WHAT IS COVERED?

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

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

WHAT IS EXCLUDED?

Your warranty does not cover:

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

WHERE IS SERVICE AVAILABLE?

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

MAKE SURE YOU KEEP...

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

BEFORE REQUESTING SERVICE...

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

TO GET WARRANTY SERVICE...

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

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

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

IF YOU HAVE QUESTIONS...

Please contact Philips at:

1-800-661-6162 (French Speaking) 1-800-363-7278 (English 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 Service Company, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

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