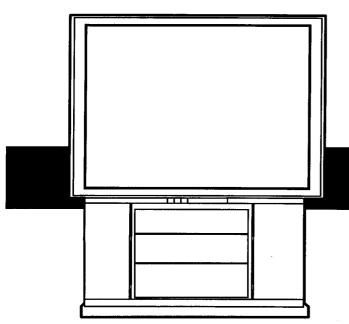
MAGNAVOX
Smart. Very smart.\*

QUESTIONS ABOUT THIS PRODUCT? CALL OUR INFORMATION CENTER. 800-531-0039



# Projection Television Owner's Manual

MPORTANT

Return Your Warranty Registration Card Within 10 Days. See Why Inside.

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

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

### Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your MAGNAVOX 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 MAGNAVOX product owner:**

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

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

**MAGNAVO** 

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 MAGNAVOX product.

Robert Minkhorst President and Chief Executive Officer

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

#### For Customer Use

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

### Know these **safety**symbols



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

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

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

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

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

### SAFETY INSTRUCTIONS - Read before operating equipment

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

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

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

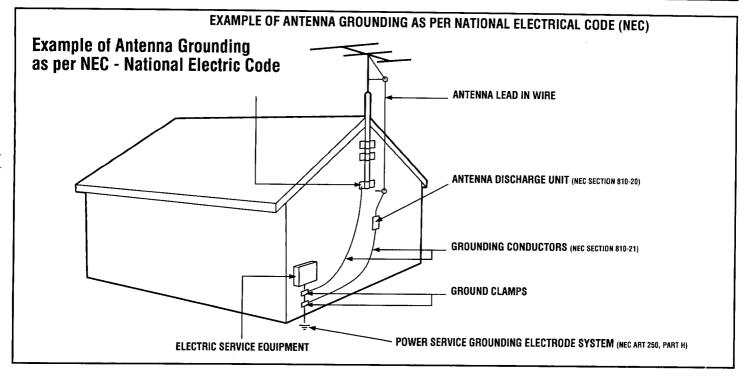
- 7. Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8. Ventilation The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated 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 hear sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 10. Power Sources The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 11. Power-Cord Protection Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.

- Cleaning The appliance should be cleaned only as recommended by the manufacturer.
- Power Lines An outdoor antenna should be located away from power lines.
- 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.

- 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.



MAC3964

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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

#### **FEATURES**



First Time Set Up - automatically sets the TV for local channels and the correct picture signal (antenna or cable). It even helps you make the necessary connections for the Picture-In-Picture (PIP) feature.

Infrared Remote Control - operates your TV set and a variety of wireless remote control VCRs and Cable TV Converters. A special "Locator" feature can also help you find the remote when it has been stuck out of sight or misplaced.

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.

**Stereo-Ready 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.

**On-Screen Features -** display helpful information for the setting of TV controls (such as help messages, operating tips and glossary).

**Audio/Video Jacks -** for direct connections with VCRs (and other accessories) for quality TV picture and sound playback.

**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.

Smart Button - for the control of TV Sound and the Picture levels. Use the Smart Button on the remote to quickly adjust Smart Sound (to set TV Volume levels during program changes or commercial breaks); Smart Picture (for programmed video video level adjustments on a variety of program sources); and Smart Surf (for quick one button channel selection of up to 10 of your favorite channels).

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

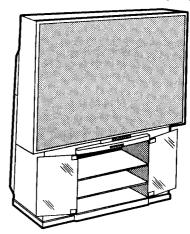
Please take a few minutes to complete your registration card. The serial number for the TV is on the back of the set.

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

### ACCESSORY SHELF COMPARTMENT

An accessory storage shelf compartment has been designed into your TV for the placement of such items as VCRs, CD-i (Compact Disc Interactive) Players, or other pieces of audio/video equipment.

Use the connection tunnel (located on the rear wall of the storage compartment) to route Antenna, Cable, or other signal supply wires from the accessories to the TV's rear cabinet jackpanel.



### PICTURE MENU CONTROL ADJUSTMENTS

#### COLOR, BRIGHTNESS, SHARPNESS, TINT, PICTURE

¬o 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 MENU (M) buttons. Then press the MENU button.

2 Press the (+) or (-) 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.

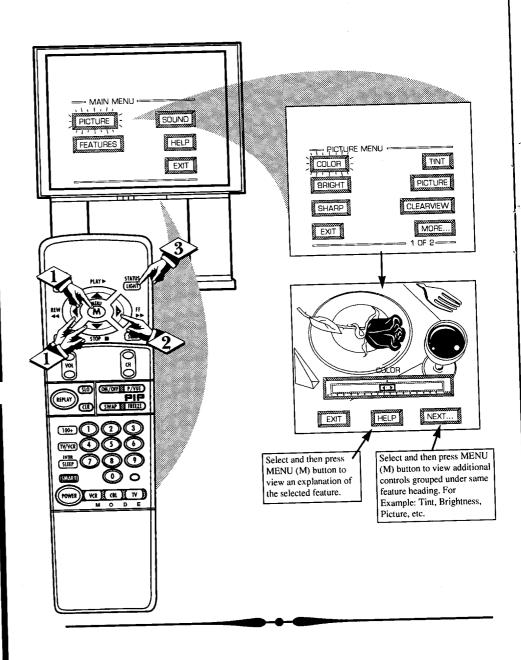
BRIGHTNESS Press (-) or (+) until dark parts of the picture show good detail.

PICTURE Press (-) or (+) until whitest parts of the picture are as bright as you prefer.

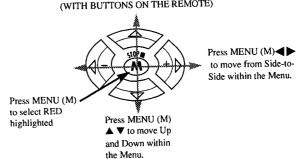
COLOR Press (-) or (+) to add or eliminate color.

TINT Press (-) or (+) to obtain natural skin tones. (Also see Flesh Correction on page 14 for more information).

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



HOW TO SELECT FEATURES (WITH BUTTONS ON THE REMOTE)



#### **CLEARVIEW**

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

#### **BEGIN**

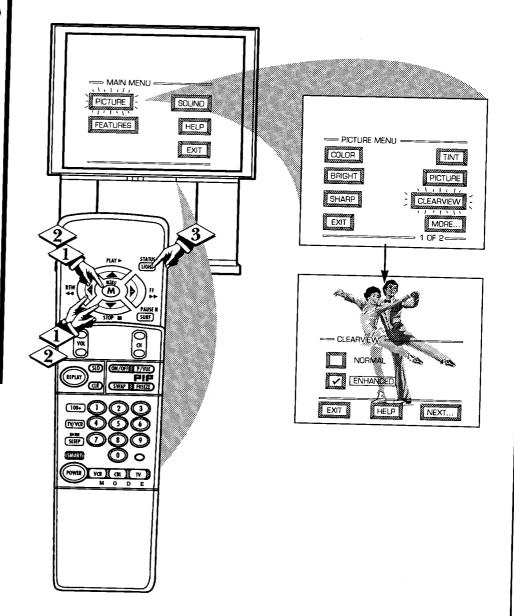
Select CLEARVIEW control.

With the PICTURE MENU on screen, move the RED highlight with the MENU (M) ( b) buttons. Then press the MENU button.

2 Press the MENU ▲▼ buttons to move the RED highlight. Press the 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 MENU (M) buttons.

Then press the MENU button.

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

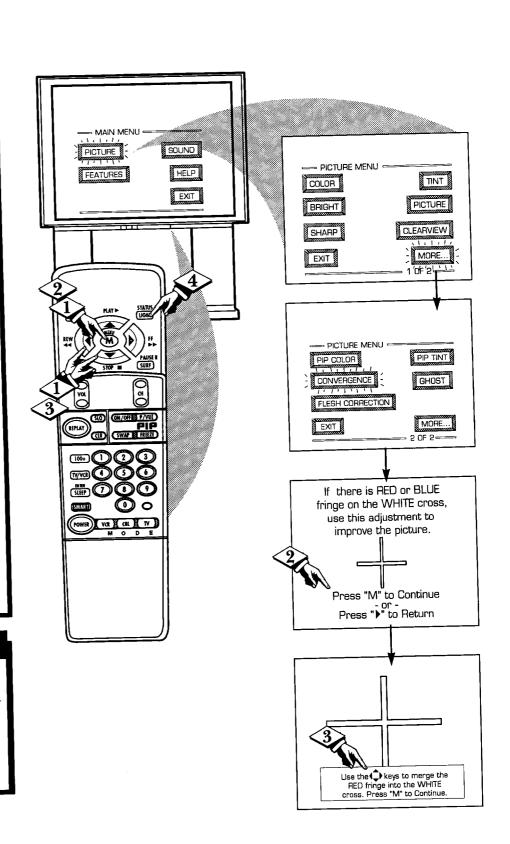
The red or blue cross is properly adjusted when it is completely merged with the white cross. (No color appears around the edge of the white cross).

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**

Use 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.

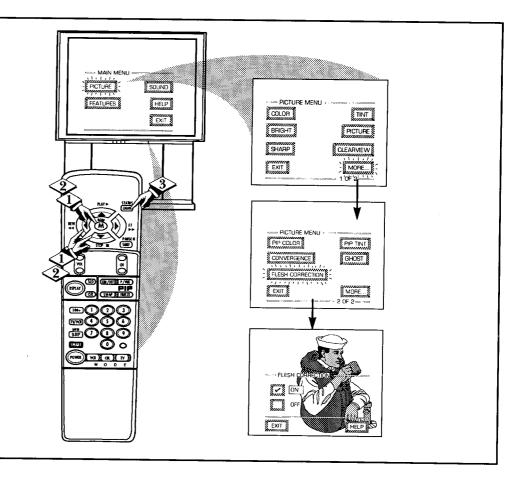
With PICTURE MENU (2 of 2) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

2 Press the MENU ▲▼ buttons to move the RED highlight. Press the MENU button to turn (▶) the FLESH CORRECTION control ON.

3 Press the STATUS button to clear the screen.



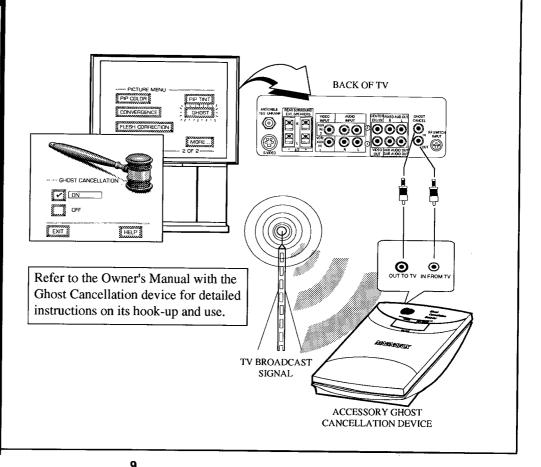


#### **GHOST CANCELLATION**

Wouldn't it be great to view your TV picture free of ghosts or other image problems? Well, your TV offers the first real step toward reducing or totally eliminating ghosting and other image interference. This should be especially good news for those home viewer's that currently use external or outdoor antennas to supply their picture.

Soon local stations will broadcast their TV programs with Ghost Cancellation information encoded in the TV signal. These encoded signals, when passed through an accessory device and the special circuitry provided in your TV, can dramatically reduce ghost line images and other interference problems.

Contact your dealer or call our Information Center number (423) 475-8869 for more details on this exciting new development in television broadcast technology.



#### FEATURE MENU CONTROL ADJUSTMENTS

#### PICTURE SOURCE

The picture for the TV can come The picture joi .... 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 MENU (M) ( buttons. Then press the MENU button.

2> Press the MENU ▲▼ buttons to move the RED highlight. Press the MENU button to turn the desired PICTURE SOURCE control ON ().

**ANTENNA-** for a picture signal coming from the ANTENNA plug on the TV.

VCR/AUX 1- for a picture signal coming from the VCR/AUX 1 Video Input jack on the rear of the TV.

AUX 2for a picture signal coming from the AUX/IN 2 Video Input jack on the rear of the TV. AUX 3- for a picture signal coming from the Video Input jack on the front of the TV.

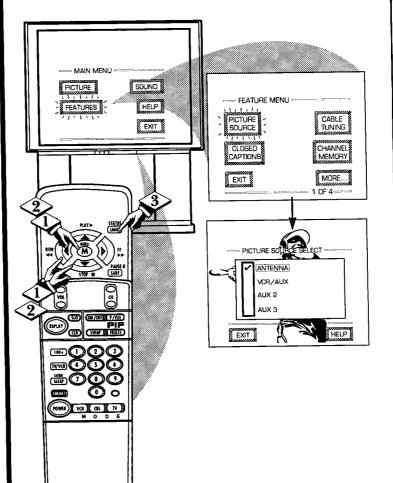
3> Press the STATUS button to clear the screen

#### RF SWITCHER

n optional RF Switcher is available  $m{1}$ that will allow an Antenna/Cable TV signal and another video accessory (VCR, Video Disc Player, etc.) to be connected to the TV at the same time.

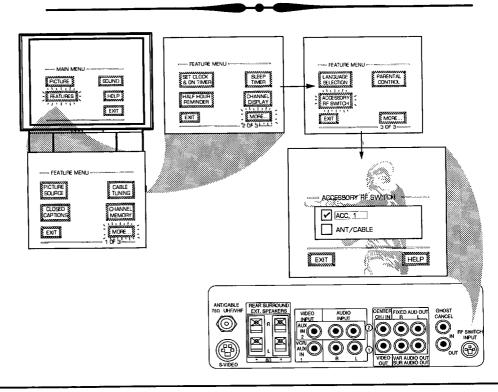
Connection instructions are given with the accessory RF Switcher, but be sure to turn the TV's power OFF (and unplug its AC power cord) when connecting the RF Switcher to the RF Switch Input jack on the rear of the TV. Replug the TV's AC Power Cord into the wall outlet and turn the TV ON. The TV's Picture Source Menu will now show an Accessory Signal Source option available for selection.

The accessory RF Switcher can be purchased or ordered from your dealer. If your dealer does not carry the accessory, call the Information Center number (listed with your warranty) for further assistance.



**SMART** HELP

Remember, the VCR/AUX 1, AUX 2, and AUX 3 modes must have a video signal source connected (to their INPUT plug) or the TV screen will be blank. (See page 30 for connection details).



#### **CLOSED CAPTION**

Nosed 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 MENU (M) buttons. Then press the MENU button.

2> Press the MENU ▲▼ buttons

to move the RED highlight. Press the MENU button to select () the desired Closed Caption mode - For Example: "ALWAYS ON" and "CAPTION 1".

**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.

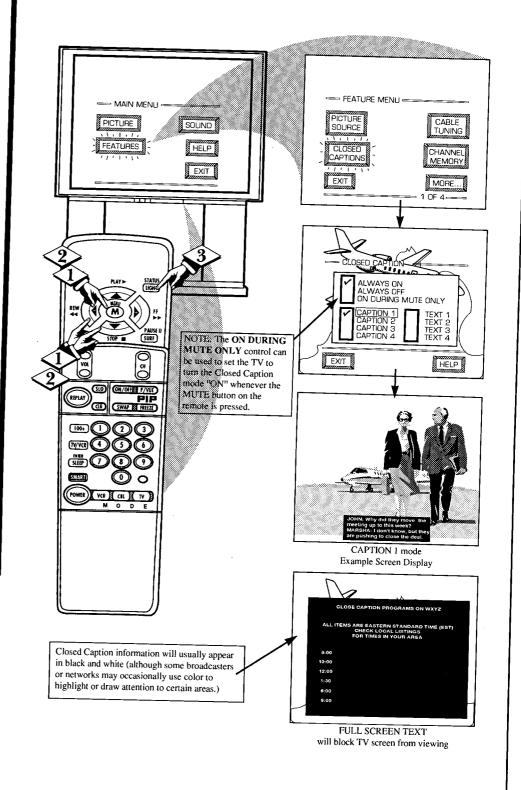
To cancel, set the Closed Captioned feature to OFF when finished.



#### 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

**V**ou need to make sure the TV is **I** 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 MENU (M) buttons. Then press the MENU button.

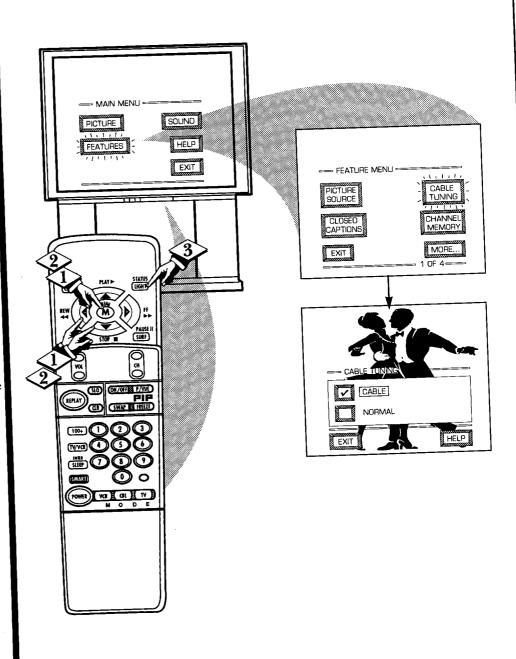
2 Press the MENU ▲▼ buttons to move the RED highlight. Press the MENU button to select () the desired mode - For Example: CABLE.

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

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

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 MENU (M) buttons. Then press the MENU button.

Press the 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 (M) button to clear the screen.



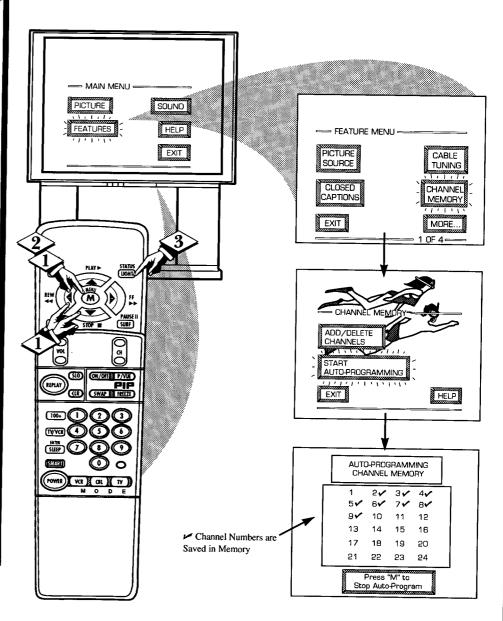
#### SMART HELP

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

Auto-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 MENU (M) buttons. Then press the MENU button.

2 Press the CHANNEL ▲▼ or number buttons to select the channel you want to add or delete.

3 Press the MENU ▶ button to ADD the channel into the TV's memory.

Press the MENU ◀ button to DELETE the channel from memory.

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

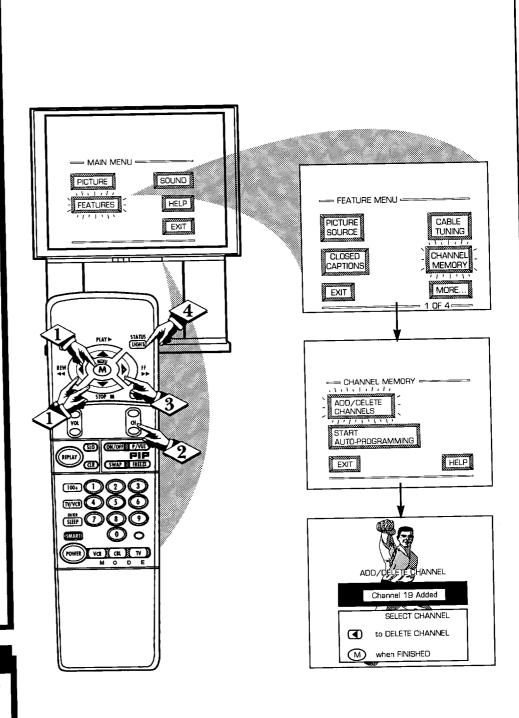
Press the STATUS or MENU button to clear the screen when through.



#### SMART HELP

Remember. You can also add the VCR/AUX, AUX 2, or AUX 3 modes just like a channel. Then by pressing the CHANNEL AV buttons the AUX(iliary) mode can quickly be selected to use the desired set of Input jacks on the TV (see page 30).

Note: VCR/AUX, AUX 2, and AUX 3 modes are located between the lowest and highest channel numbers within the ADD/DELETE CHANNEL control screen.



#### 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).

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

**BEGIN** 

Select SET CLOCK control.

With FEATURES MENU (2 of 4) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

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

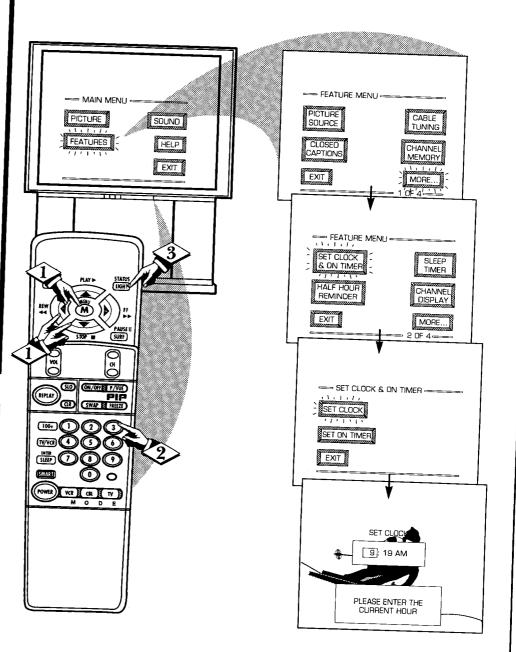
3 Press the STATUS button to set the clock in operation and clear the screen.

#### SMART HELP

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

The remote's MENU (M) 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 ON TIMER

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

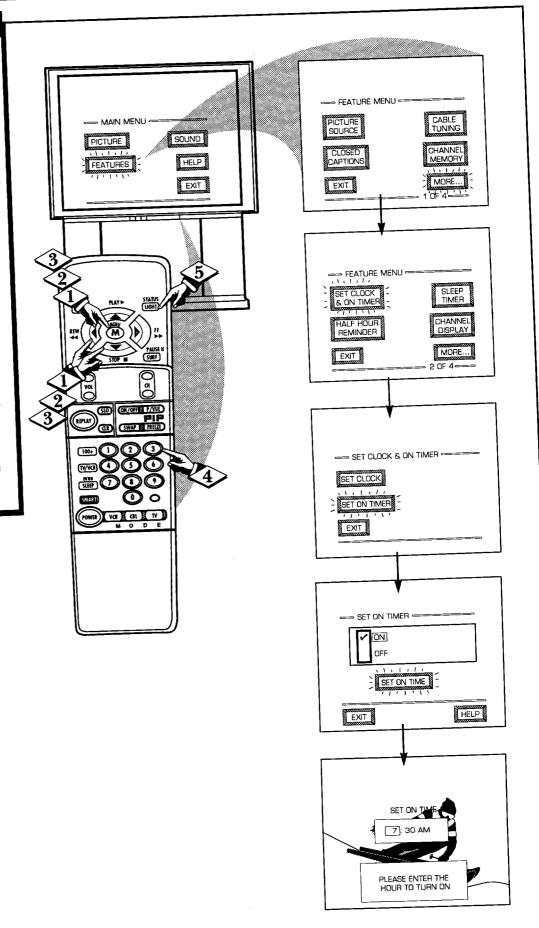
#### BEGIN

Select SET ON TIMER control.

With FEATURES MENU (2 of 4) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

- Press the MENU ▲▼ and MENU (M) buttons to highlight and select "ON" ().
- 3 Press the MENU ▲▼ and then the MENU (M) buttons to select "SET ON TIME".
- 4 Press the remote's number buttons to set the "TURN ON" time for the TV. (Press MENU ▲ ▼ for AM or PM.)
- Fress the STATUS button to set the "ON 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

Select SLEEP TIMER control.

With FEATURES MENU (2 of 4) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

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

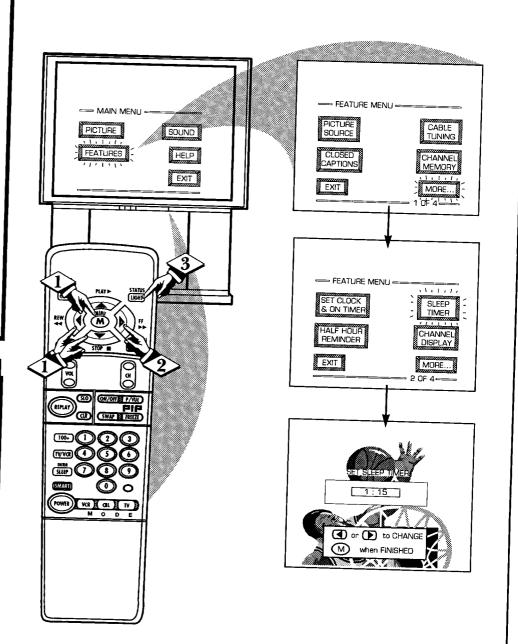
Press the STATUS or MENU
(M) button to clear the screen after you have set the time for the TV to turn off.

#### 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

With 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 FEATURES MENU (2 of 4) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ and MENU (M) buttons to highlight and select () the LARGE or SMALL display control.

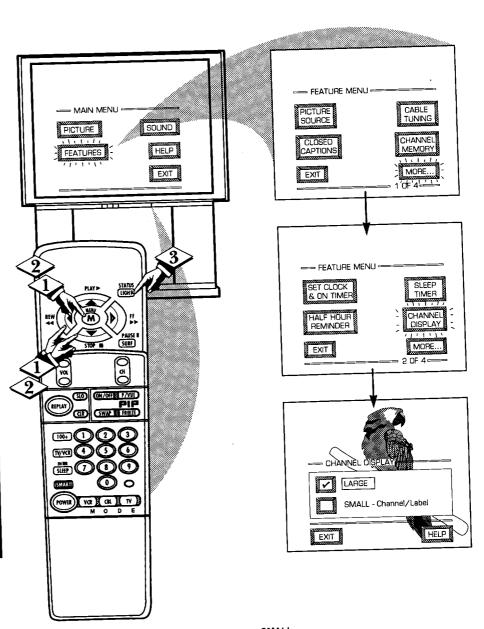
3 Press the STATUS button to clear the screen.

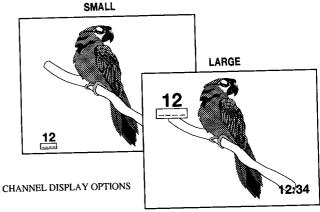


#### SMART HELP

Try it out. Press the CHANNEL ▲▼ buttons and you should see the Display Size you selected.

Remember. The SMALL SIZE display shows only the channel number, not the time (or clock).





#### HALF HOUR REMINDER

With 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 FEATURES MENU (2 of 4) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

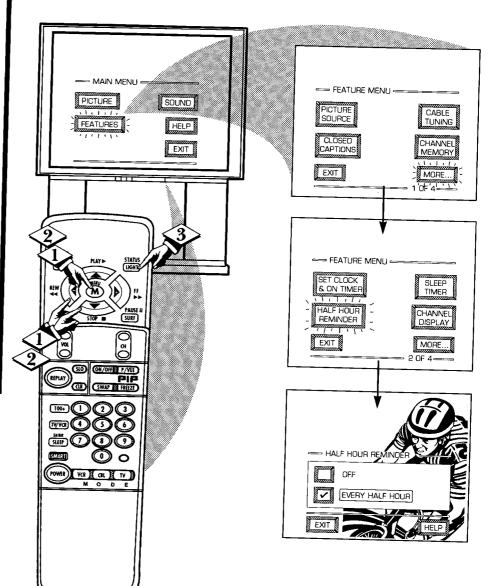
② Press the MENU ▲▼ and MENU (M) buttons to highlight and select () the EVERY HALF HOUR item.

3 Press the STATUS button to clear the screen.



#### SMART HELP

Remember. The Time and Channel Reminders will show on the hour and the halfhour for about five seconds.



#### PARENTAL CONTROL

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 FEATURES MENU (3 of 4) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

"BLOCK CHANNELS" and "SETUP CODE" show on screen.

Press the MENU ▲▼ and
MENU (M) buttons to highlight
and select the SETUP CODE item.

"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.

Enter a new four digit number code using the remote.

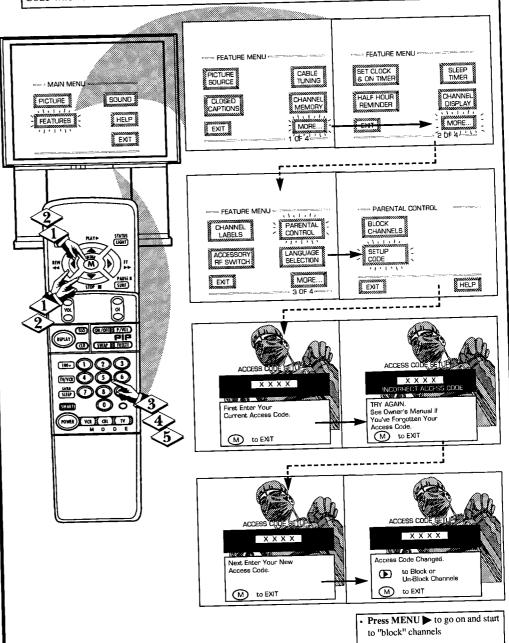
"Access Code Changed" shows on the screen to let you know the new code has been set.

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 MENU to return to the Parental Control Menu screen.
- · Press STATUS to clear the screen.

#### PARENTAL CONTROL

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

#### (BEGIN)

1 Select the BLOCK CHANNELS control.

> With FEATURES MENU (3 of 4) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

- **②** Press the MENU **▲** ▼ and MENU (M) buttons to highlight and select the BLOCK CHANNELS item.
- 3> Enter the correct Parental Code number.
- **4** Press Channel **▲** or Channel Number buttons to select the channel you want to block.
- **5** Press the MENU ▶ button to "BLOCK VIEWING" on the selected channel. "ALLOW VIEWING" on a blocked channel.

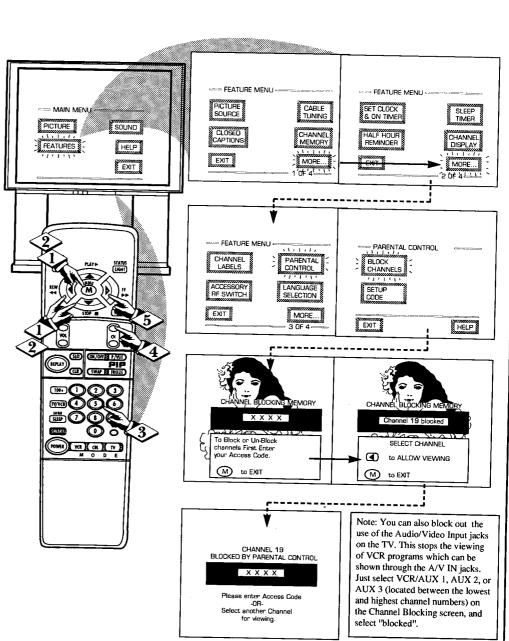
Repeat steps 3 and 4 for any other channels you wish to block out.



#### SMART HELP

Remember, to make TV viewing easier all channels (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, Parental Control is back in place for all channels.



BLOCKED CHANNEL SCREEN MESSAGE (Appears when an attempt to select a blocked channel is made and Parental Control is ON.)

#### 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 Labelled 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

With the FEATURE MENU screen (3 of 4) on the TV's screen, move the RED highlight using the MENU (M) buttons to select CHANNEL LABLES. Press the MENU (M) button.

Press the MENU ▲▼ and

MENU (M) buttons to highlight
and select either:

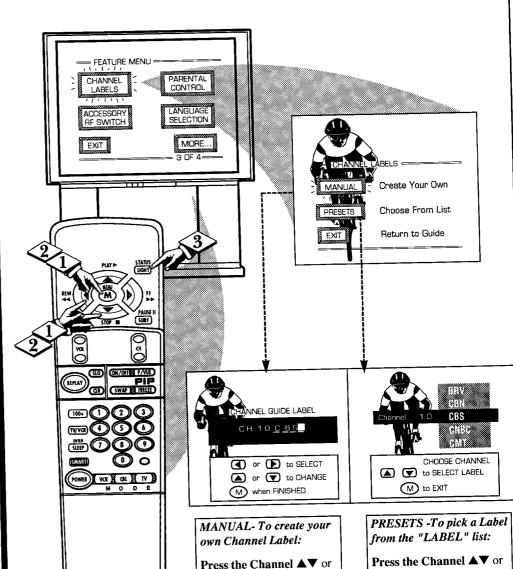
"MANUAL" to create your own label for a channel.

"PRESETS" to choose from a list of prewritten channel labels.

(See instruction details on this page.)

Press the STATUS button to clear the screen.





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

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

Press the MENU ▲ ▼
buttons to pick any of the
letters or symbols that are

given for your use.

Press the MENU buttons 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 A volumber buttons to select desired station.

Press the MENU ▲▼ buttons to move up and down the Channel Label

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 4) on screen, move the RED highlight with the MENU buttons. Then press the MENU (M) button.

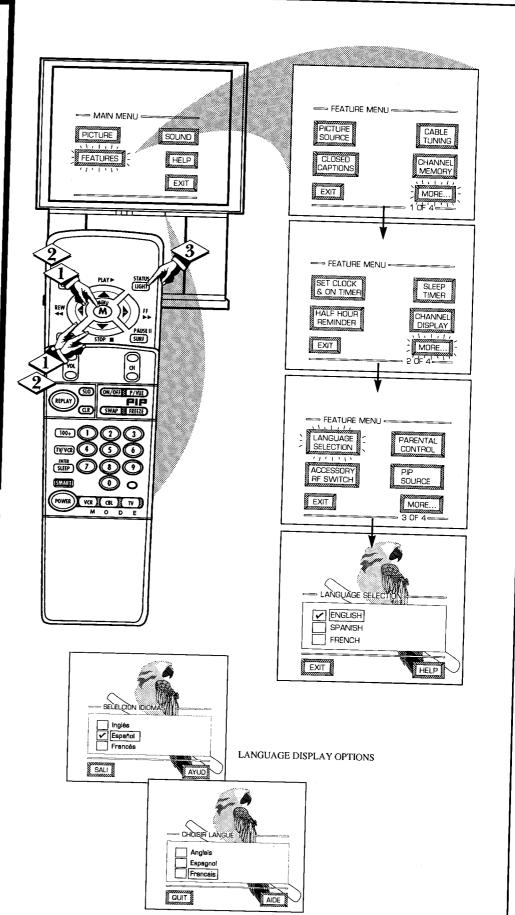
Press the MENU A and MENU (M) buttons to highlight and select ( Espansh (Espanol), or French (FRANCAIS) on the display control.

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)

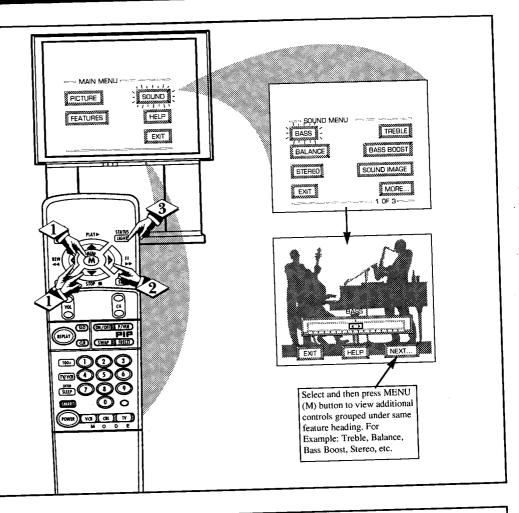
> Select BASS, or TREBLE, or BALANCE sound control.

With the SOUND MENU on the screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the (+) or (-) buttons to adjust the sound control to levels you prefer.

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.

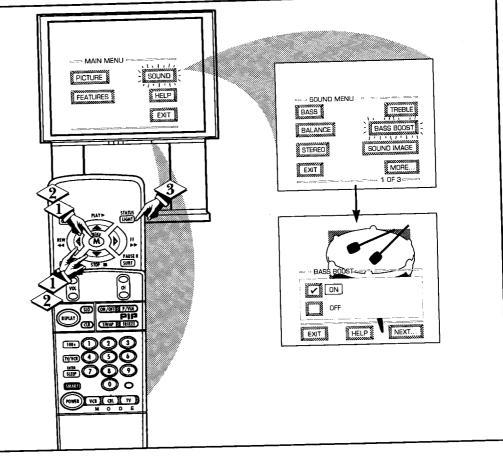
With the SOUND MENU on the screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ and

MENU (M) 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.

A RED stereo light (on the front of the TV) will come on when a stereo broadcast is received.

#### **BEGIN**

Select STEREO sound control.

With the SOUND MENU on the screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ and MENU (M) buttons to highlight and turn ON () the STEREO mode.

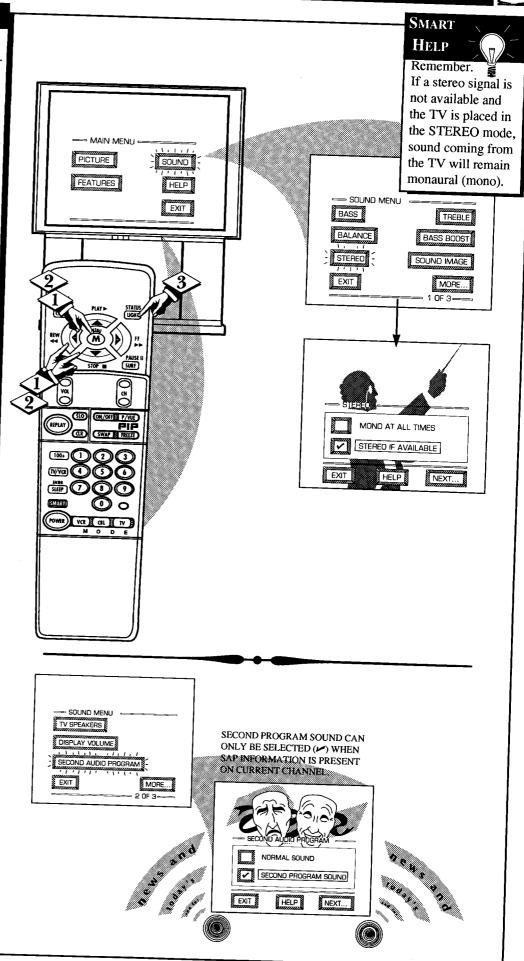
Press the STATUS button to clear the screen.



#### 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.



#### SOUND IMAGE

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

#### BEGIN

Select SOUND IMAGE control.

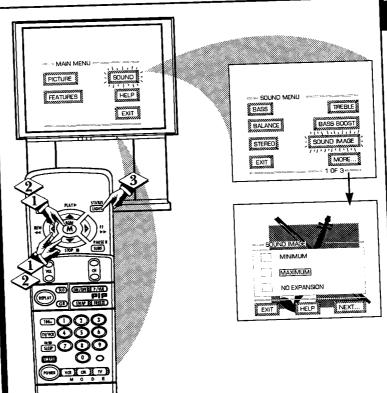
With the SOUND MENU on the screen, move the RED highlight with the MENU (M)  $\bigoplus$  buttons. Then press the MENU button.

Press the MENU ▲▼ and MENU (M) buttons to highlight and turn ON () the SOUND IMAGE mode.

For Example: "MAXIMUM" spreads the Sound Image effect as wide as possible.

3 Press the STATUS button to clear the screen.





#### Smart Help

Remember, with the Sound Image control turned ON even monaural (mono) audio source material can be heard through rear Surround Sound speaker connections (see page 28). Note: The monaural version of Surround Sound may be louder at the rear set of speakers than what is normally heard with true stereo signal Surround Sound, but this is normal.

#### **DISPLAY VOLUME**

Use 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.

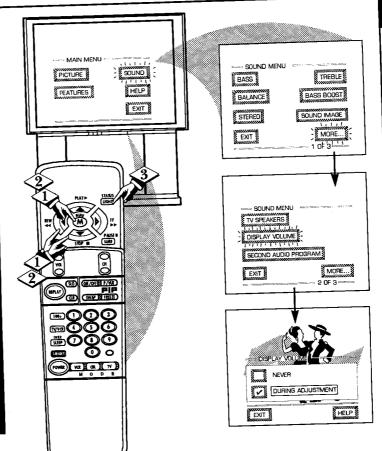
Select DISPLAY VOLUME control.

With SOUND MENU (2 of 3) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

2 Press the MENU ▲▼ and MENU (M) buttons to highlight and turn ON (✓) the DISPLAY VOLUME control.

3 Press the STATUS button to clear the screen.





#### SMART HELP

Remember, "DURING ADJUSTMENT" means the volume level will be on screen whenever the Volume buttons are pressed.

#### TV SPEAKERS

Would 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

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.

- ON. You can now adjust the sound level coming from the audio system with the Volume AV buttons on the TV or remote.
- 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 MENU (M) buttons.

Then press the MENU button.

4 Press the MENU ▲▼ and MENU (M) buttons to highlight and turn OFF () the TV SPEAKERS control.

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

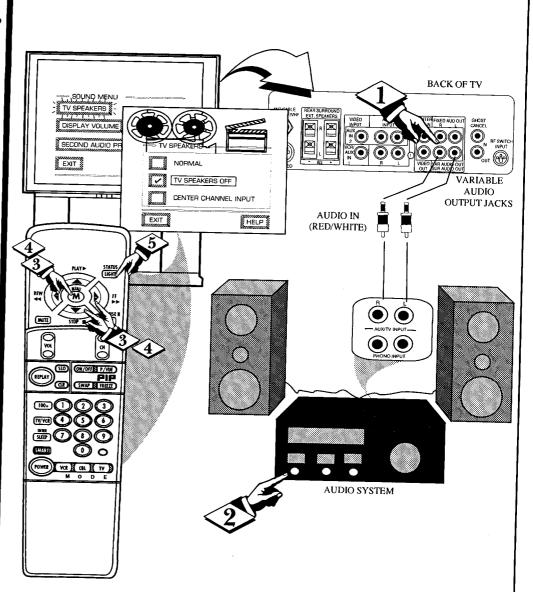
Press the STATUS button to clear the screen.



#### 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.



#### 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)

Connect both external 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.)
- 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)

- 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.
- Turn TV ON and place the

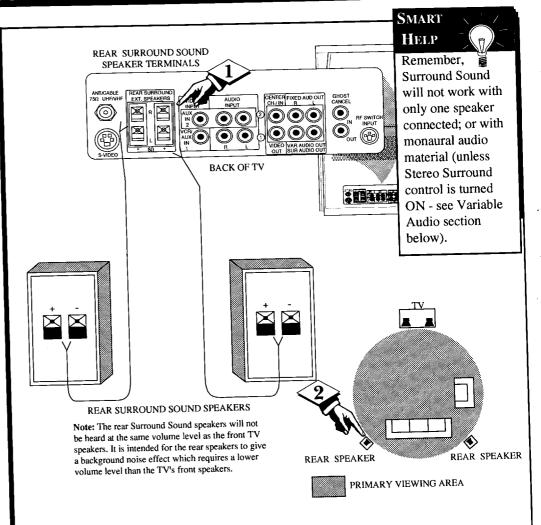
  VARIABLE AUDIO OUTPUT on
  screen control to the SURROUND

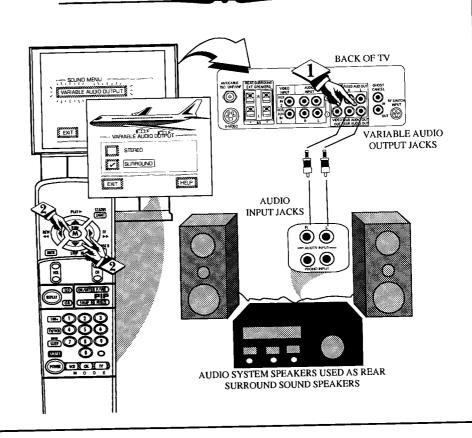
  (✓) position. (Sound Menu 3 of 3).

  Note:This will change the
  Left/Pight changel audio line level

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 AND USE

With the use of an optional Dolby Surround Prologic Amplifier you can receive the added sound dimension found only in Dolby Surround programs. Dolby Surround combines wide left-to-right stereo separation with solid center channel imaging, complemented by a front-to-back soundfield effect. The result for you the listener is to create a movie theater or concert hall "you are there" sound sensation.

#### (BEGIN)

- Output jacks on the TV to the AUX INPUT jacks on a Dolby Prologic Audio Amplifier system.
- CHANNEL Input jack on the TV to the CENTER PRE-AMP jack on the Dolby Prologic Amplifier.
- Sound speakers to the (+,-) connections on the Dolby Surround Amplifier.

Place the Audio System's Front and Rear Surround speakers as shown in the picture on this page.

Turn the TV ON. Set TV Volume to normal listening level. Place the TV's TV SPEAKERS (Sound Menu 2 of 3) control to "CENTER CHANNEL INPUT".

Turn the Dolby Prologic Amplifier ON. Place its SURROUND MODE control to the Dolby Prologic mode.

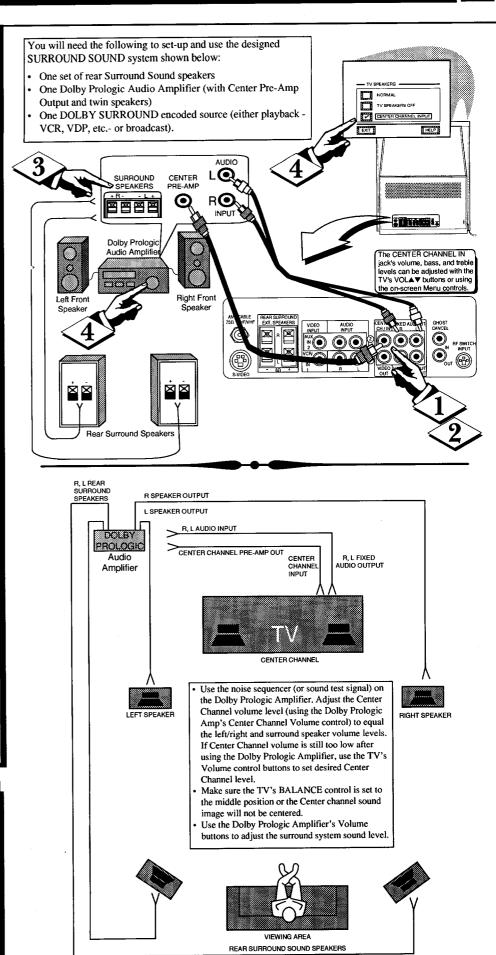
The full effect of DOLBY

SURROUND programs (either broadcast, VCR, or VDP) can now be heard through the TV and Amplifier system speakers.



#### SMART HELP

Remember. R(ight)/L(eft)
channel stereo sound and rear
Surround sound will be heard from the
external (or Dolby Prologic Amplifier
system) speakers. The TV's front
cabinet speakers are used for true
Center Channel sound necessary to
complete the Dolby Prologic Surround
arrangement.



#### USING THE AUDIO/VIDEO INPUT JACKS

#### VCR/AUX 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 VCR/AUX
VIDEO IN jack on the TV.

- 2 Connect the AUDIO OUT jacks R(ight) and L(eft) from the VCR to the VCR/AUX AUDIO IN jacks on the TV.
  - Select the "VCR/AUX 1"
    PICTURE SOURCE SELECT
    control on the TV.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

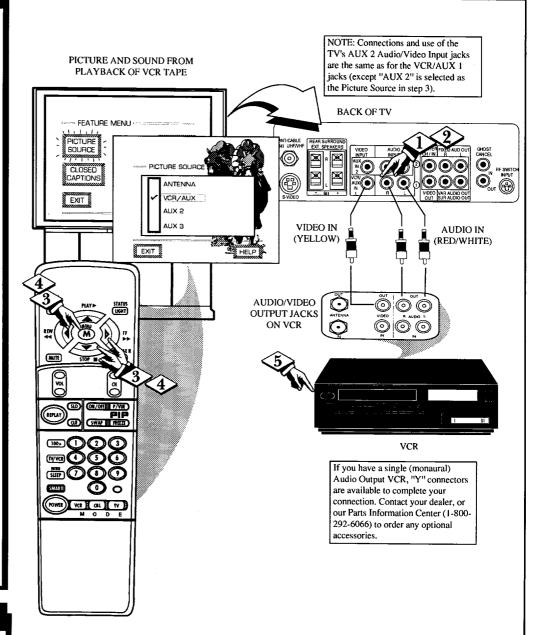
- Press the MENU ▲▼ and MENU (M) buttons to highlight and select () the VCR/AUX mode.
- Turn the VCR ON and press PLAY to view the tape on the TV.



#### SMART HELP

Remember, after it is connected an easy way to select the VCR/AUX mode is to press the VCR button on the front of the TV (or the TV/VCR button on the remote.) Channels 3 and 4 can also be selected in this way.

If you have added VCR/AUX to the TV's channel memory (see page 14), just press the CHANNEL AV buttons to select the VCR/AUX mode.



# Using the Audio/Video Input Jacks (continued)

#### **AUX 3 INPUTS**

or more convenient Direct playback connections the TV's Front Audio/Video Input panel can be used. Located next to the TV's front control panel (under a small cover door) these Input jacks allow for quick and easy connections, particularly for the playback of Camcorder tape recordings.

To view the playback of a Camcorder recording using the Audio/Video Input jacks on the front of the TV:

#### **BEGIN**

Connect the VIDEO OUT jack from the Camcorder to the Front VIDEO IN jack on the TV.

**2** Connect the AUDIO OUT jacks R(ight) and L(eft) from the Camcorder to the Front AUDIO IN jacks on the TV.

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

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

A Press the MENU ▲▼ and MENU (M) buttons to highlight and select () the AUX 3 mode.

5 Turn the Camcorder ON and press PLAY to view the tape on the TV.

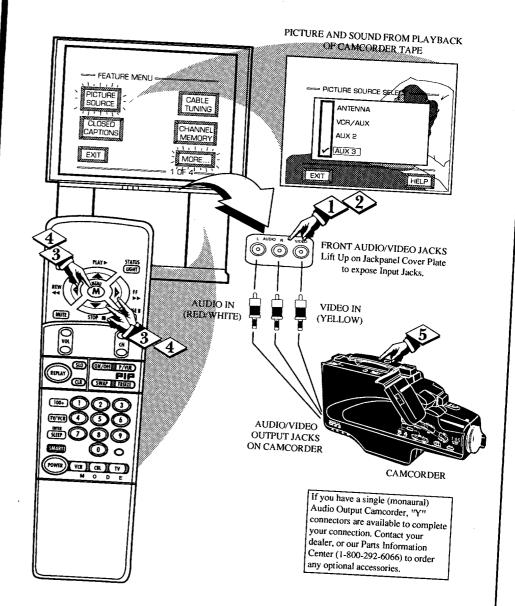


#### SMART HELP

Remember, after it is connected an easy way to select the AUX 3 mode is to press the VCR button on the front of the TV (or the TV/VCR button on the remote.) Channels 3 and 4 can also be selected in this way.

If you have added AUX 3 to the TV's channel memory (see page 14), just press the CHANNEL ▲▼ buttons to select the

VCR/AUX mode.



# USING THE AUDIO/VIDEO INPUT JACKS (CONTINUED)

### VCR/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

Connect the S-VIDEO (S-VHS) OUT jack from the VCR to the S-VIDEO jack on the TV.

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

- 2 Connect the AUDIO OUT jacks R(ight) and L(eft) from the VCR to the AUX IN1 jacks on the TV.
- Select the "S-VIDEO"
  | PICTURE SOURCE control.

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

The "S VIDEO" picture source option appears only when a S-VIDEO cable has been connected to the TV.

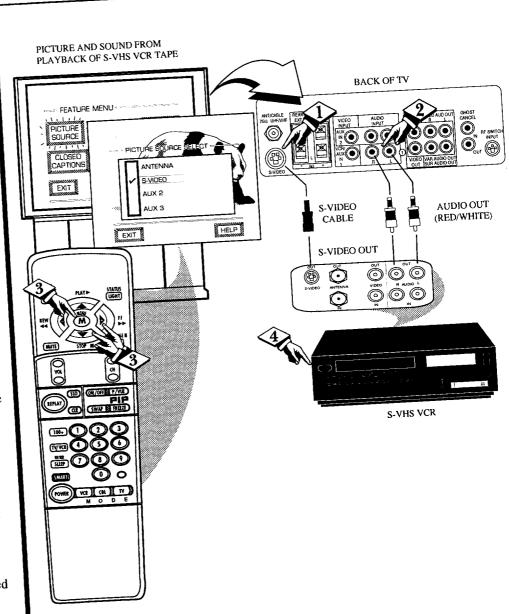
Turn the VCR ON and place it in the S-VIDEO (or S-VHS) playback mode. Insert S-VHS cassette tape and playback in a normal manner.



#### SMART HELP

Remember, after it is connected an easy way to select the S-VIDEO mode is to press the VCR button on the front of the TV (or the TV/VCR button on the remote.)

If you have added VCR/AUX to the TV's channel memory, just press the CHANNEL ▲▼ buttons to select the S-VIDEO mode.



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

With the FEATURES MENU on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

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

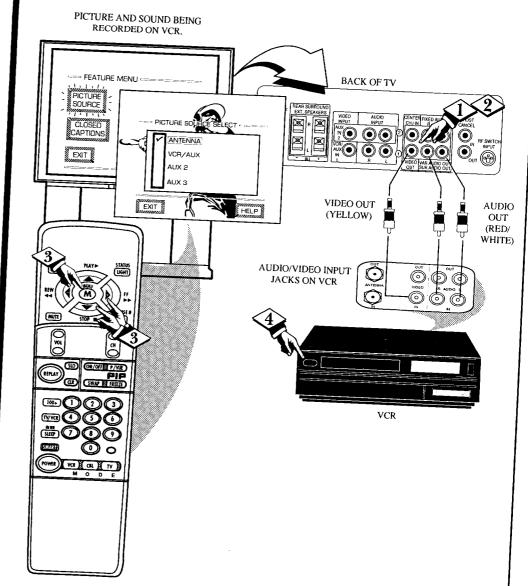
Turn the VCR ON. Put a cassette tape in the unit and place the VCR in the RECORD mode.



#### 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.



### USING THE REMOTE LOCATOR FEATURE

Have you ever played hide and seek with your remote control? Are you tired of tearing the house apart trying to find if someone has stuffed the remote under the couch, put it on the shelves, or hid it in the desk? Well, your TV remote can save you all that looking by automatically signaling its location to you.

Here's how it works:

#### (BEGIN)

Press the POWER button on the set to turn the TV ON.

Note: Normally you can press any button on the front of the TV to turn the set ON. But for the remote locator to work you need to be sure to use the Power button at the TV.

A "locating remote" message shows on the TV screen.

Within a few seconds a chirping or beeping sound will begin to come from the remote control hand unit.

The remote will continue to signal its location for around 30 seconds. Normal TV program sound will not be heard while the remote locator is working.

Once you find the remote just press any button on the remote and the beeping sound will stop.

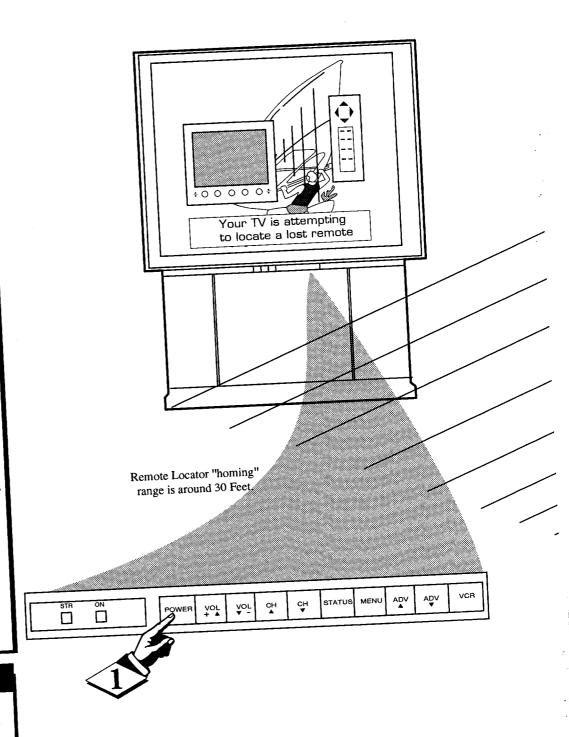
The remote is now ready for normal TV feature use.



#### SMART HELP

Remember, the remote locator may not properly receive its "homing" signal from the TV if it has been placed on a metal shelf or counter material.

Also, since there's a special type of radio frequency "homing" signal receiver inside the remote we are required to notify you that any changes or modifications not expressly approved by Philips Consumer Electronics Company could void the user's authority to operate the remote equipment.



#### Address Code Programming of Remote

For most homes this step would not be needed but for your information:

Up to 9 different remote locator address codes can be set on which the TV can send out its "homing" signal.

This is done in case there is more than one TV (with a remote locator) present, and you want only one specific remote to be signaled when the TV is turned ON.\*

To set a Locator Address Code:

#### BEGIN

With TV turned ON, press the LOCATOR CODE button on the remote. (Also be sure the TV SYSTEM button on the remote has been pressed.)

You will need a pencil or pen to press the recessed button.

The TV shows the present Remote Locator Code.

Remote Locator Code is set to 1 Press Any Number

Press any number button (0-9) on the remote to set or change the Locator Code.

Remute Locator Code Has Been Changed New Code Is 2

The remote will beep to let you know it has received the new Locator Code and then return to its normal operating mode.

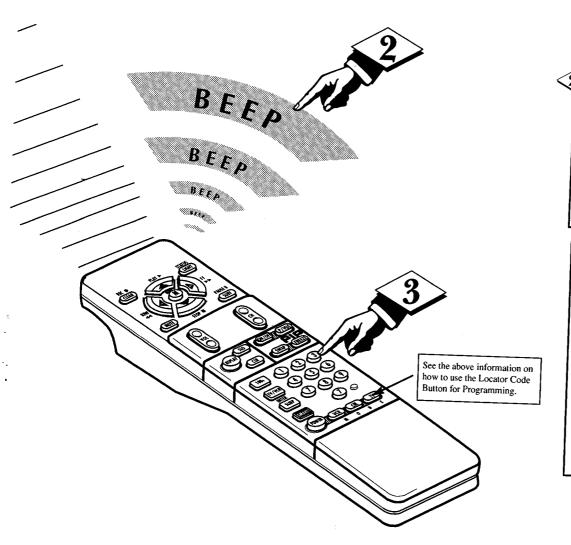
## Re

#### SMART HELP

Remember, if batteries are replaced the Locator Code will need to be reentered.

When setting the Locator Code if any button, other than the number buttons, are pressed the remote will return to its normal operation mode.

\*For owners who live in an apartment (townhouse or condominium) complex, this task may be necessary since the remote locator's signal can be sent and detected directly through adjoining walls.





### REMOTE CONTROL OPERATION (CONTINUED)

#### SMART PICTURE

Regardless of what type of program your watching, your TV has automatic video control settings matched for your current program source or content. The Smart Picture feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home.

#### BEGIN

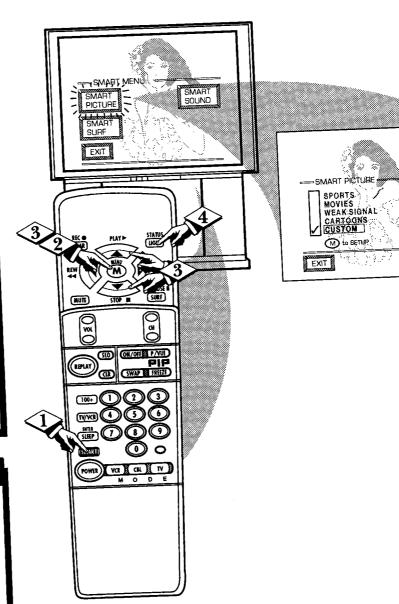
- Press the SMART button on the remote.
- Press the MENU (M) button to select the Smart Picture feature (highlighted in RED).
- buttons to choose any of the preset viewing categories (Example: Cartoons, Movies, etc.). Then press the Menu (M) button to select the highlighted control.
- Press the STATUS button on the remote to clear the screen.



#### SMART HELP

Remember, with Smart
Picture "Custom" mode
selected you can set a number of
video controls to your own
preference. Use the remote's Smart
button to reselect these personally
adjusted Custom settings contained
within the Smart Picture feature.
(See the next page for more detailed
instructions.)

The video control settings for the Smart Picture categories (except CUSTOM) are memorized into the TV at the factory and can only be reset by field and service technicians.



# REMOTE CONTROL OPERATION (CONTINUED)



#### **SMART PICTURE**

To use the Smart Picture settings you placed in memory (see previous page):

#### (BEGIN)

Press the SMART button on the remote.

List of "SMART PICTURE" categories shows on the TV screen.

Press the SMART button repeatedly to highlight the Smart Picture category you desire.

For example: press SMART PICTURE to select "CUSTOM". (See the "Change Label" section below on how to write new titles for the Smart Picture labels.)



Press the MENU buttons to move the RED highlight to the control your wish to adjust, then press the Menu (M).

Press the STATUS button after you have finished your adjustments to clear the screen.





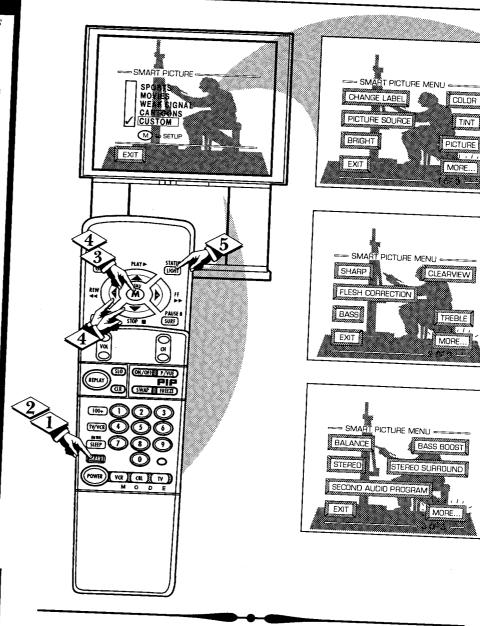
The "CHANGE LABEL" control can be used to change the title of a SMART PICTURE setting into a name or label that may be easier for you to remember.

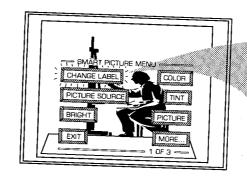
#### BEGIN

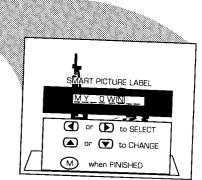
With the "SMART PICTURE LABEL" control on the screen, press the MENU ▲▼ buttons to spell out a new label or title for the selected SMART PICTURE.

Press the MENU 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)

### SMART SOUND

Are you tired of the sound of commercials following you into the next room or all through the house? Smart 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 program changes or commercial breaks.

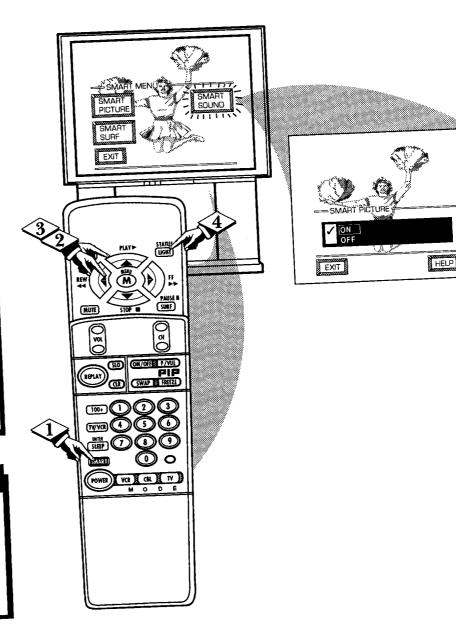
#### BEGIN

- Press the SMART button on the remote.
- with the SMART Menu on the screen, move the RED highlight with the MENU (buttons. Then press the MENU (M) button to select the highlighted Smart Sound control.
- Press the MENU ▲ or ▼ and then the MENU (M) button to turn the Smart Sound control ON (or OFF).
- Press the STATUS button to clear the screen when completed.



#### SMART HELP

Remember, Smart 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.



# REMOTE CONTROL OPERATION (CONTINUED)

## 2-CHANNEL SURF/SMART 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 Smart Surf control allows you to set up to 10 channels in its quick viewing "list".

#### (BEGIN)

Press the Smart button on the remote.

- With the SMART Menu on screen, move the RED highlight with the Menu (M) buttons. Press the MENU button to select the highlighted Smart Surf control.
- 3 Press the Menu ▲ or ▼, then the Menu (M) button to select either Smart 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.



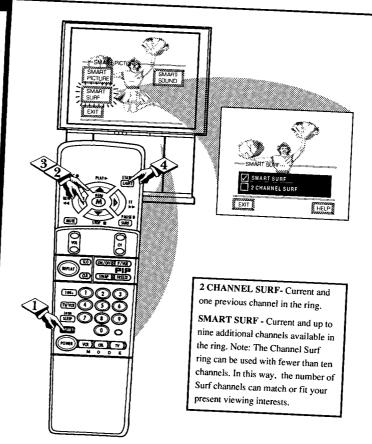
## How To Use Smart Surf

#### BEGIN

With the Smart 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.)
- 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.







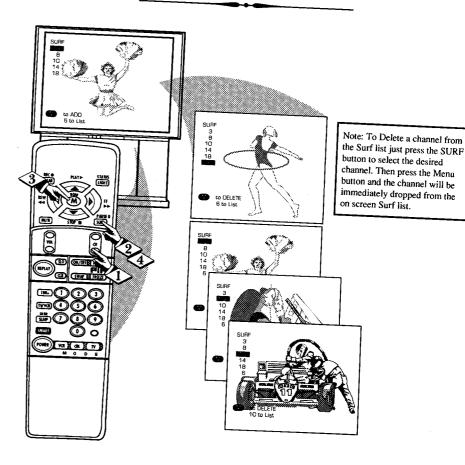


To Use 2-Channel Surf:

With the 2-Channel Surf control ON, select the two desired channels for viewing with the number buttons on the remote control.

Press the SURF

button on the remote to "toggle" between the two selected channels.





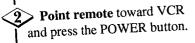
# SETTING THE REMOTE TO WORK VCRS

 $oldsymbol{Y}^{our}$  remote control is set to work your TV and many infrared remote (IR) control VCRs. However, an easy onetime step may be necessary before the remote will work your VCR.

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

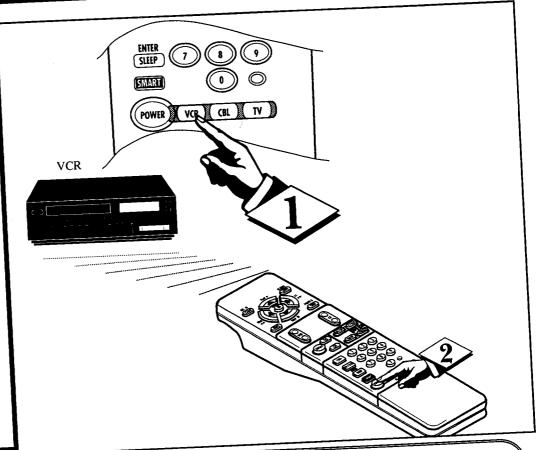
#### BEGIN

> Press the VCR System button on the remote.



3 Does the remote turn the VCR ON?

IF YES, and try the other VCR buttons on the remote. If they also work the VCR, then the remote is ready and no further steps are needed. If NO, continue...





First look up a TWO-DIGIT remote code number for your brand VCR before going through the simple "1,2,3" steps (on the following page).

continue to next page

## SMART HELP

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

VCR BRAND Akai Capehart Conoid Curtis Mathes Daewoo Emerson Fisher Goldstar Go Video Hitachi JVC Magnavox Matsushita Mitsubishi Multitech	REMOTE CODE NO.  24, 25, 36  33  13  42  33  20, 31, 34, 40  06, 07  23  45, 46  03, 51  14, 47, 48  00, 05  01, 02  16, 17, 38, 39, 50  27, 28  21	VCR BRAND Panasonic Philips Philips Video Cl RCA Samsung Sansui Sanyo Sears Sharp Shintom Sony Teknika Toshiba Video Concept Zenith	04, 32, 42, 43, 44 22, 30 49 13 08 11, 12 35 09, 10,41 26 18, 19
Multitech NEC	27,28	Zemui	

# SETTING THE REMOTE TO WORK VCRs (CONTINUED)

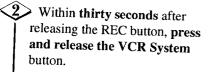


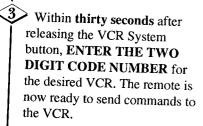
Now that you have looked up the two-digit Remote Code Number for your brand of VCR (on previous page), you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

#### **BEGIN**

> Press and release the REC (RECORD) button.





Point the remote at the VCR.
Press the POWER button on the



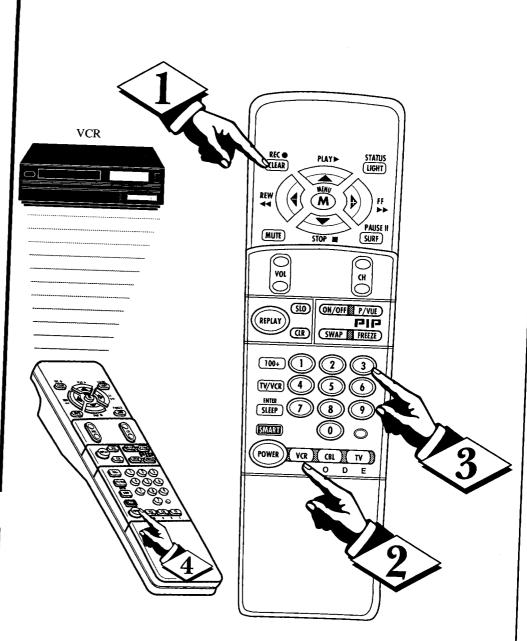
#### SMART HELP

Try it out. The Channel and VCR buttons on the remote should now operate the VCR.

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

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

If after repeated attempts the code number method does not work your VCR, try the "VCR SEARCH" method on page 44.





# SETTING THE REMOTE TO WORK CABLE TV CONVERTERS

Your remote control is set to work your TV and many infrared remote (IR) control Cable Converters. However, an easy one-time step may be necessary before the remote will work your Converter.

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

#### BEGIN

Press the CBL System button on the remote.

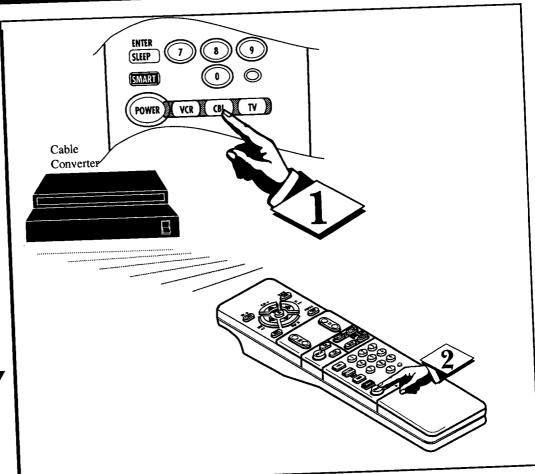
Point remote toward Cable
Converter and press the POWER button.

Does the remote turn the Converter ON?

and CH number buttons on the remote. If they also work the Converter then the remote is ready and no further steps are needed. 

▼

If NO, continue...



First look up a **TWO-DIGIT** remote code number for your brand Converter before going through the simple "1,2,3" steps (on the following page).

continue to next page

### SMART HELP

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

Macom Magnavox NSC Oak Panasonic Philips	28 23 37 45 14, 15 25 1,02,03,04,05,46,55 29, 38 17, 31 49 06, 27, 39 18, 35 19, 20, 21, 24, 26	CONVERTER BRAND  Rembrant Salora Scientific Atlanta Sheritech Starcom Sylvania Texscan Tocom Toshiba Uniden Satellite Unika United Satellite Universal Video Tech	33 52 08, 22, 47 34 30 16 48 12,13, 53 43 44 50 54 36 40
U	•	_	

# SETTING THE REMOTE TO WORK CABLE TV CONVERTERS (CONTINUED)



Now that you have looked up the two-digit Remote Code Number for your brand of Cable Converter (on previous page), you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

#### (BEGIN)

- Press and release the REC (RECORD) button.
- Within thirty seconds after releasing the REC button, press and release the CBL System button.
- Within thirty seconds after releasing the CBL System button, ENTER THE TWO DIGIT CODE NUMBER for the desired Converter. The remote is now ready to send commands to the Converter.
- Point the remote at the Converter. Press the POWER button on the remote to turn the Converter ON.



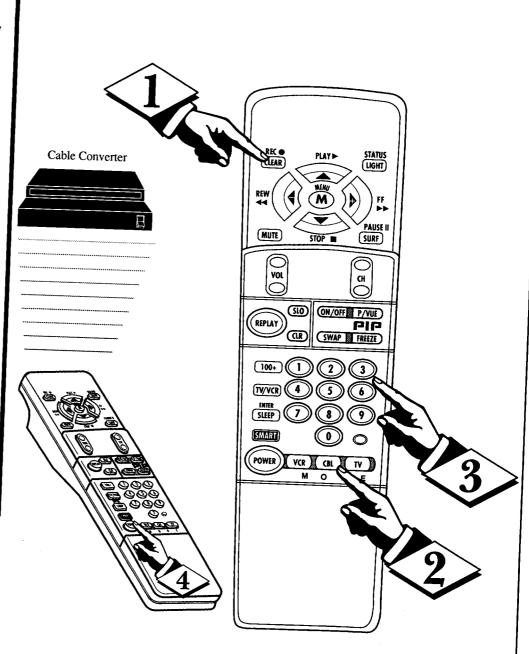
#### SMART HELP

Try it out. The Channel and POWER buttons on the remote should now operate the Converter.

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

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

If after repeated attempts the code number method does not work your Converter, try the "CONVERTER SEARCH" method on page 44.





# SETTING YOUR REMOTE TO WORK VCRs, CONVERTERS - SEARCH

Your TV remote can be set to work your VCR or Cable Converter by what is called the SEARCH method.

If the "REMOTE CODE" number method shown in the previous section did not set your remote to work your VCR or Converter, then follow the easy steps listed below.

Please read through steps 1-4 before beginning.

#### BEGIN

> Press the POWER button on the VCR or Converter to turn the unit ON.

Stand at least six feet away from the front of the VCR or Converter.

Point the remote toward the unit. HOLD DOWN the SURF and the desired System (VCR or CBL-Converter) buttons at the same time. KEEP HOLDING BUTTONS DOWN.

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.

Release the SURF and System
(VCR or CBL) buttons as soon
as channel numbers start to scan
up. The code has been identified
and the remote is ready to operate
with the VCR or Converter.

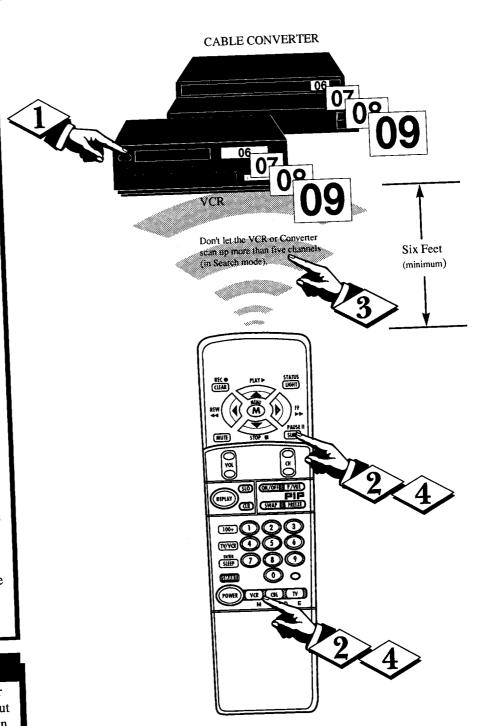


#### SMART HELP

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

Don't let the VCR or Converter 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.



# USING THE REMOTE'S VCR BUTTONS



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

#### (BEGIN)

Press the VCR System button on the remote.

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



#### **Record Button**

Hold the RECORD button down, and then press the PLAY button to begin a VCR recording.

### **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.

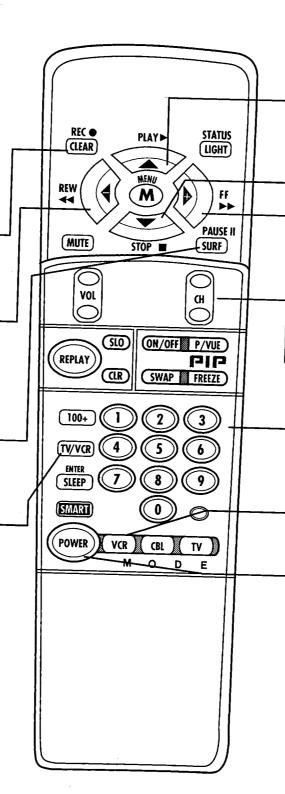
#### Pause Button

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

Press to the VCR position ("VCR"

#### TV-VCR Button

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 TV the TV/VCR button works as a source button. Each press cycles the TV between channels 3 and 4; the last view channel; and any AUX(iliary) Input mode (if it has been connected.) It is a quick one-button way to select these channels and modes (without directly entering the TV's Menu system.)



#### Play Button

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

#### 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.

### **Channel Scan Buttons**

Press to scan up or down through VCR channel numbers.

#### Number Buttons

Press buttons for direct VCR channel selections.

#### VCR System Button

Press to send remote commands to the VCR.

#### Power Button

Press to turn the VCR ON and OFF.

#### 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).

Note: The PIP picture must be supplied by a VCR (or other accessory equipped with a VIDEO OUTPUT jack). If you already went through FIRST TIME SETUP (in the Quick-Use Guide), then the connections for PIP have been completed.

To see how channels selected on a VCR can be shown as PIP:

#### (BEGIN)

Jeck on the VCR to the VCR/AUX VIDEO IN jack (yellow) on the TV.

Also connect the AUDIO OUT (R and L) jacks from the VCR to the VCR/AUX AUDIO IN jacks (red and white) on the TV.

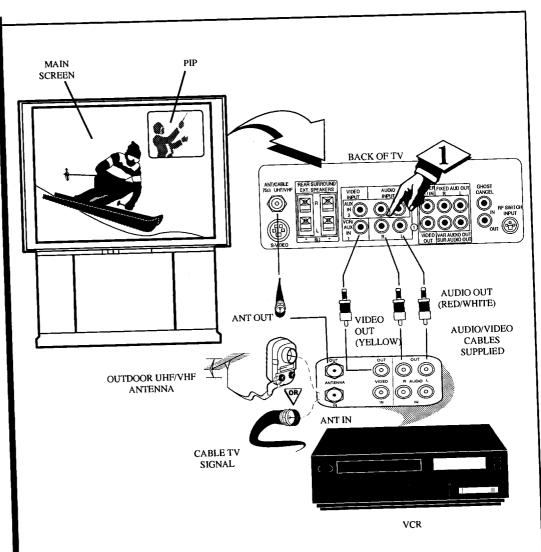
Also be sure the normal antenna connection between the VCR and TV are in place.

Move to the next page after the VCR to TV PIP connections are completed.

#### SMART HELP

For other possible PIP connections see page 52 for the "More PIP Connections" section.

If you have a single (monaural) Audio Output VCR, "Y" connectors are available to complete your connection.
Contact your dealer, or our Parts Information Center (1-800-292-6066), for details.



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

Turn the VCR and TV ON.

Place the VCR in the TV mode -Use the TV/VCR button on the VCR (or on the TV remote if it has been set to work with your VCR - see page 40.)

# Place the TV's PIP INPUT control to "VCR/AUX"-

With FEATURES MENU (4 of 4) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU ▲▼ and MENU (M) buttons to highlight and select the "VCR/AUX 1" (🛩) item.

Select the channel on the VCR to view in the PIP window.

Select the channel on the TV to view on the main screen.

Press the PIP ON/OFF button on the remote.

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

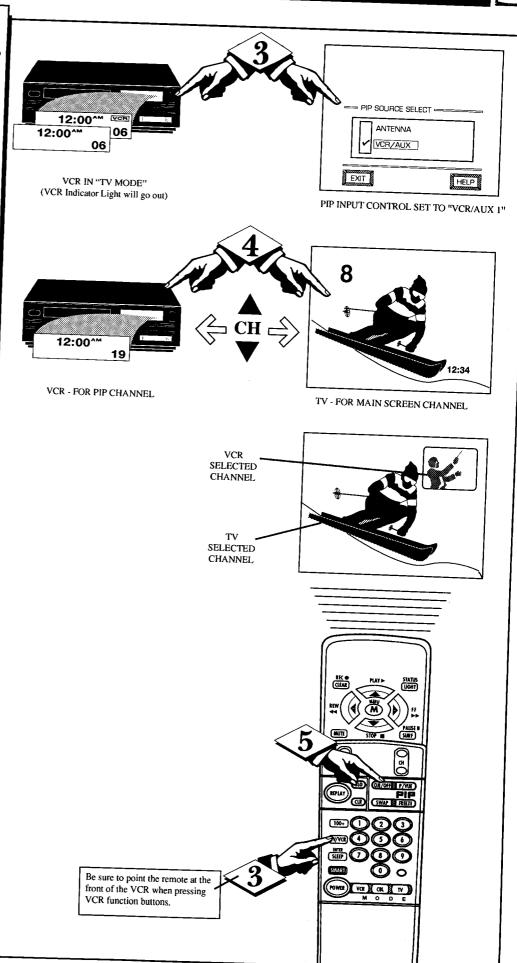


#### SMART HELP

Remember, if you see the same picture on the main screen and in the PIP window, you need to be sure the TV's PIP Picture Source control (page 50) is set to "VCR/AUX".

No sound will be heard with the PIP picture. See page 48 on how to "SWAP" the PIP picture with the main screen picture so that sound can be heard.

Also see the following page on how to operate other PIP features with the remote control.



# How to Use PIP with the TV 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

> Press the PIP ON button to show the PIP picture.

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

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.

3 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 or swap a frozen PIP picture.

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

### 4> Press PREVIEW (P/VUE)

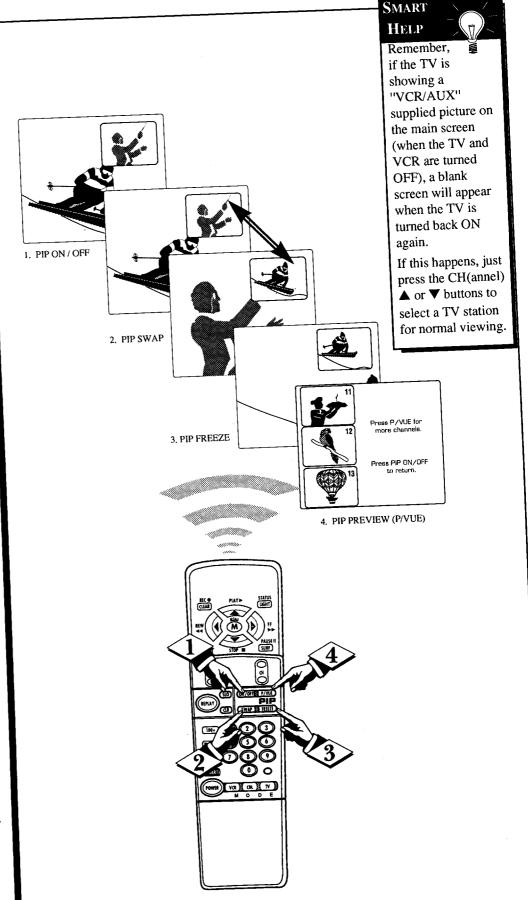
button to see what is showing on three channels. P/VUE starts with the current channel and shows the next two channels in memory.

Every few seconds each P/VUE picture will be updated with a current scene for that channel.

Press P/VUE again to go to the next three channels in memory and so on. Just press the number buttons to select any previewed channel.

Press PIP ON/OFF button to clear the screen and return to normal viewing.





# How to Use PIP with the Remote Control

#### PIP REPLAY

The PIP REPLAY buttons on the remote can be used to store and then replay live action occurring on the main TV screen. Two Replay Mode settings also allow you to view longer Replay segments (about 8 seconds), or higher resolution segments with shorter replay duration time (about 4 seconds). You can even watch the stored Replay in Slow Motion.

#### (BEGIN)

(1) Press the  $\overline{\text{CLEAR}}$  (CLR)

**button** on the remote to store the current TV scene into Replay memory. "Loading Replay Memory shows on the TV screen.

Press the REPLAY button to view the stored TV scene action in the PIP window.

Replay continues to repeat the TV scene stored in memory.

The state of the s

Press the REPLAY button to drop the Replay Window from the TV screen. (Or press the CLR button to drop the current Replay and begin to store a new Replay segment into memory.)



#### REPLAY MODE SETTINGS

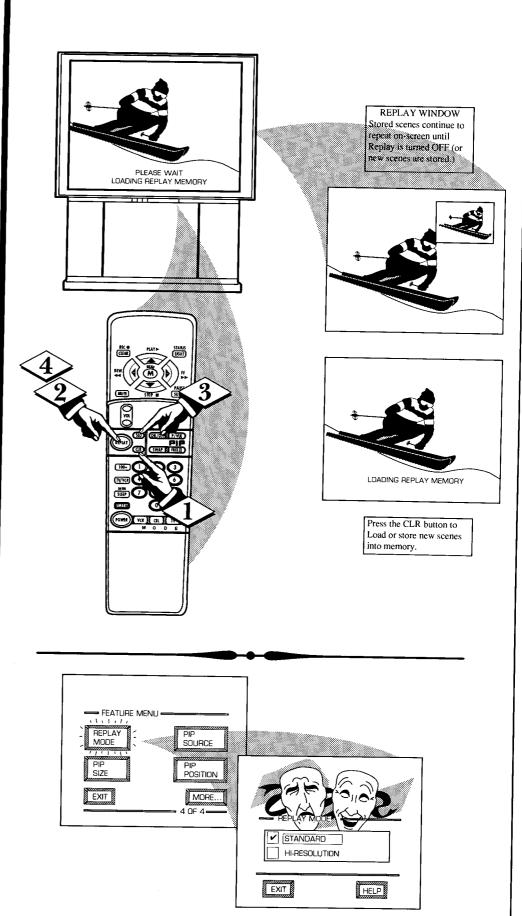
The Replay Mode settings allow you to choose either higher video resolution segments (with shorter replay time); or longer lasting Replay segments that have less video detail than the high resolution setting.

#### (BEGIN)

Select REPLAY MODE control.

With the FEATURES MENU (4 of 4) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

2> Press the MENU ▲▼ buttons
to move the RED highlight. Press
the MENU button to select ()
the desired Replay mode.



# SELECTING THE PICTURE SOURCE FOR PIP

#### PIP SOURCE

The picture for the PIP window can come through either the ANT/CABLE or VCR/AUX Inputs (on the rear of the TV). PIP Picture Source simply tells the TV which one of these sources it is to show in the PIP window.

#### BEGIN

> Select PIP SOURCE control.

With FEATURES MENU (4 of 4) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

2 Press the MENU ▲▼ and MENU (M) buttons to highlight and select either the ANTENNA or VCR/AUX () item.

VCR/AUX1- for a picture signal coming from the VCR/AUX IN Audio/Video jacks on the TV.

ANTENNA- for a picture signal coming from the ANT/CABLE Input on the TV.

Press the STATUS button to clear the screen.



#### PIP POSITION AND SIZE

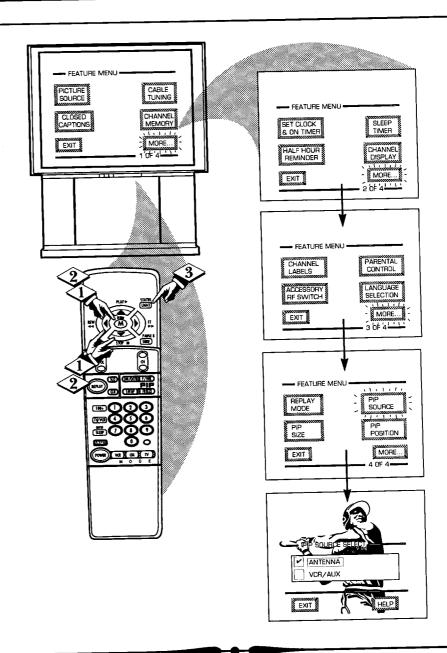
The PIP Position and Size controls allow you to move and resize the PIP window on the TV screen so as not to block any TV screen action

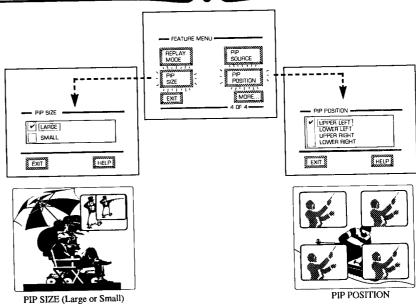
#### (BEGIN)

1 Select PIP POSITION or PIP SIZE control.

With the FEATURES MENU (4 of 4) on screen, move the RED highlight with the MENU (M) buttons. Then press the MENU button.

Press the MENU AV buttons
to move the RED highlight. Press
the MENU button to select ()
the desired Position and Size that
you want for your PIP window to
appear.





# 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).

Select PIP COLOR (or PIP TINT) control.

With PICTURE MENU (2 of 2) on screen, move the RED highlight with the MENU (M) buttons.

Then press the MENU button.

Press the MENU ▲▼ 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.

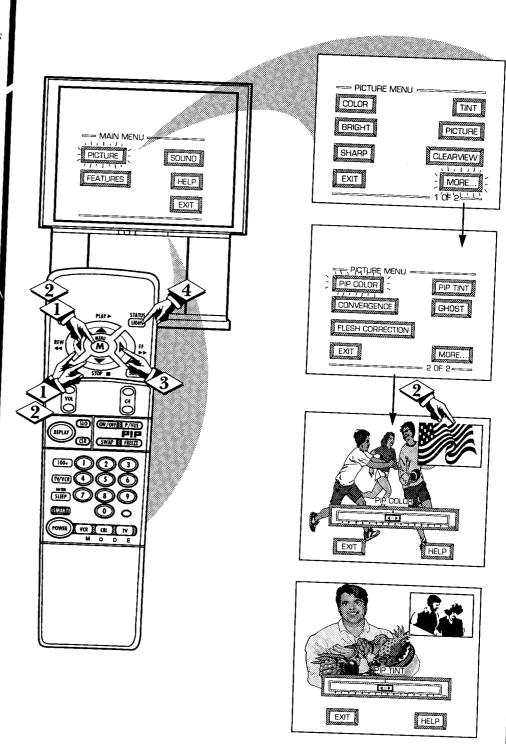
3 Press the (+) and (-) buttons to adjust the PIP for Color (or Tint) levels you prefer.

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 **SMART** HELP **D**IP hookup with Cable Converter Box and VCR. Remember to use the Cable TV BEGIN First use an optional signal Converter Box to splitter and connect the original select channels for PIP, the VCR must cable TV signal to both the be set to the same CABLE IN on the Cable Converter and the ANTENNA plug on the channel as the channel selection rear of the TV. switch on the rear of REAR OF TV the Cable Converter 2 Connect the CABLE OUT on (either channel 3 or the Converter to the ANT. IN on 4). the VCR. <del>őő</del> Jóóó 3 Connect the VIDEO OUT jack on the VCR to the VIDEO IN jack on the TV. 2 1 3 88 883 8 Also connect the AUDIO OUT (R and L) jacks from the VCR to the AUDIO IN jacks on the TV. STOP AUDIO VIDEO CABLES SUPPLIED 9 0 SIGNAL $\widehat{\circ}$ SPLITTER ANTENNA

VCR

CABLE TV CONVERTER

Contact the Parts

Information Center 1 800 292-6066 to order any optional



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)

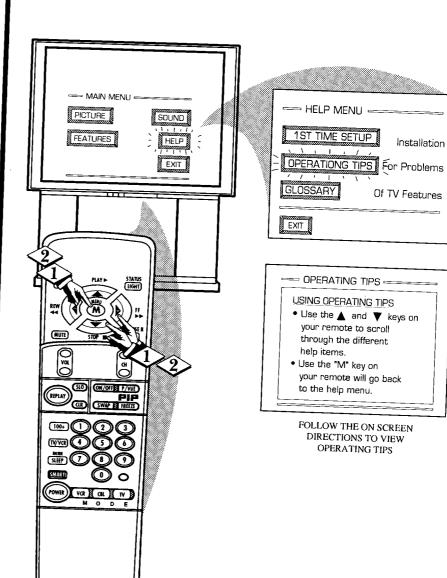
Select "HELP" on the TV's Main Menu.

Press the remote's Menu (buttons to move UP/DOWN and from SIDE-TO-SIDE within the list of on-screen features.

**Press MENU** (M) to select the highlighted "HELP" item.

Press the MENU ▲▼ and then the MENU (M) buttons to select either the OPERATING TIPS or GLOSSARY item.







# TIPS IF SOMETHING ISN'T WORKING

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

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

### No Power

- Check the TV power cord. Unplug the TV, wait 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 VCR/AUX, AUX 2, or AUX 3 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 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.

## **Remote Does Not** Work

- Check TV-VCR-CBL "System" buttons on the remote. Press the remote's TV System button to send commands to the TV; VCR 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 the MAG4600 Projection TV Screen Cleaning Kit or call our toll-free Accessory Parts ordering number 1-800-292-6066.
- 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



A/V Inputs \* Connector plugs which allow the introduction of distinct audio and video signals into the TV from accessory VCRs, camcorders, etc. These plugs bypass the normal tuner or RF/Antenna signal circuitry.

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 his Television feature controls. See On Screen Displays (OSD).

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

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

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 television (or VCR) to help the user with specific feature controls (color adjustment, programming, etc.).

**Menu** \* An on-screen listing of feature controls shown on the Television screen that are made available for user adjustments.

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 Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

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

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

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

S-Video Input \* Allows direct connection of high-resolution video sources, such as a Super VHS videocassette recorder, Laser Disc player, etc. Provides optimum 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.



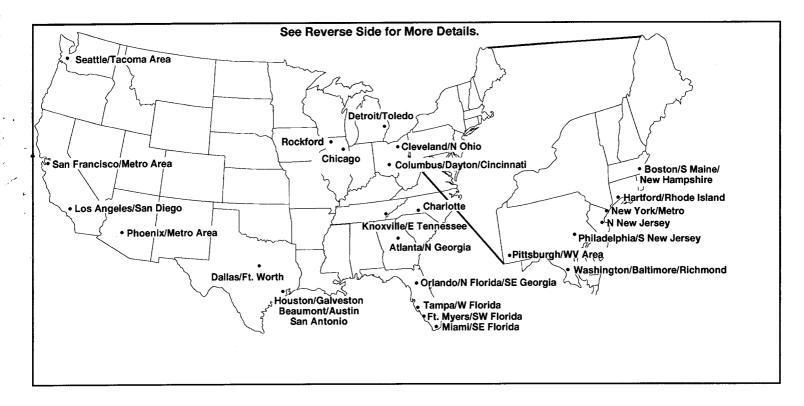
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<sup>\*</sup> Information contained in Quick-Use (Q/U) Guide - page listed

### **Philips Consumer Electronics Company**

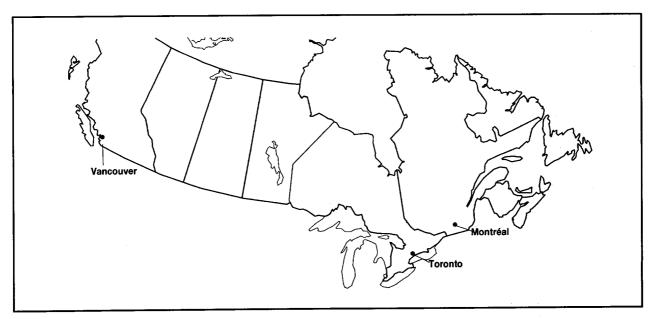
## **Factory Service Center Locations**



**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.



EL4482-3 Rev. O

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 PAÍS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

#### Atlanta-Athens-Macon-Chattanooga, TN-North Georgia Area 1898 Leland Drive

Marietta, GA 30067 (404) 952-3279

#### Boston-Southern Maine-Southern New Hampshire Area

1 North Avenue Burlington, MA 01803 (617) 272-4825

#### Charlotte-Winston Salem-Greensboro-Chapel Hill-Raleigh-Spartanburg, SC Area

520-G Clanton Road Charlotte, NC 28217 (704) 529-6330

#### Chicago-Gary Area

1360 W. Hamilton Parkway Itasca, IL 60143 (708) 775-0990

#### Cleveland-Akron-Youngstown Area

24090 Detroit Road Westlake, OH 44145 (216) 899-2040

#### Columbus-Dayton-Cincinnati Area

6333 Busch Blvd. Columbus, Ohio 43229 (614) 781-2605

#### Connecticut—Rhode Island— Springfield, MA Area

1294 Blue Hills Avenue Bloomfield, CT 06002 (860) 726-9612

#### Dallas-Ft. Worth Area

13375 Stemmons Freeway, Suite 200 Dallas, Texas 75234 (214) 243-4775

#### Detroit/Toledo Area

25173 Dequindre Madison Heights, MI 48071 (810) 544-2110

#### Knoxville-Greeneville-Tri Cities-East Tennessee Area

6700 D. Papermill Road Papermill Plaza Knoxville, TN 37919 (423) 584-6614

#### Ft. Myers–Naples– Southwest Florida Area

11601 Cleveland Ave., Suite 15 Ft. Myers, FL 33907 (813) 278-4242

#### Houston-Galveston-Beaumont-Austin-

San Antonio Area 1110 North Post Oak Road Suite 100 Houston, TX 77055 (713) 682-3990

#### Los Angeles-San Diego Area

2910 E. LaPalma, Suite E Anaheim, CA 92806 (714) 238-7250

# Miami-Southeast Florida Area 2099 W. Atlantic Blvd.

Pompano Beach, FL 33069 (305) 978-0467

#### North NJ-Staten Island-Rockland County, NY Area

140J Commerce Way Totowa, NJ 07512 (201) 890-7200

#### **New York Metro Area**

116 Charlotte Avenue Hicksville, NY 11801 (516) 933-1780 Nassau County

#### Orlando-Jacksonville-North Florida-Southeast Georgia Area

2452 Sand Lake Road Orlando, FL 32809 (407) 857-8998

#### Philadelphia/S. New Jersey Area

352 Dunks Ferry Road Bensalem, PA 19020 (215) 638-7500

#### Phoenix-Scottsdale-Mesa-Tempe Area

5032 S. Ash Avenue, Ste. 101 Tempe, AZ 85282 (602) 897-7358

# Pittsburgh, PA-Steubenville, OH-Wheeling/Morgantown, WV Area

2891 Banksville Road Pittsburgh, PA 15216 (412) 563-8020

#### Rockford-Kenosha-Beloit-Madison Area

5602 N. Second Loves Park, IL 61111 (815) 654-7343

#### San Francisco-Oakland-San Jose Area

3370 Montgomery Drive Santa Clara, CA 95054 (408) 492-9013

#### Seattle-Tacoma/Olympia Area

1055 Andover Park East Tukwila, WA 98188 (206) 575-6288

#### Tampa-St.Petersburg-Sarasota Area

Center Point Business Park, Building B-1, Suite 100 1911 U.S. Hwy. 301 North Tampa, FL 33619 (813) 621-8181

#### Washington, DC-Baltimore-Richmond, VA Area

6671-J Santa Barbara Road Elkridge, MD 21227 (410) 796-0105

HOW YOU CAN OBTAIN EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE IN CANADA FOR YOUR PRODUCT THROUGH A PHILIPS CONSUMER SERVICE CENTER

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA EN EL CANADA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO AL CONSUMIDOR

TORONTO 601 Milner Avenue Scarborough, Ontario M1B 1M8 (416) 754-6064 (Tel.) (416) 292-5161 (Tel.) (416) 754-6290 (Fax) MONTRÉAL 4977 Levy Street St. Laurent, Québec H4R 2N9 (514) 956-0120 (Tel.) (514) 956-0828 (Fax) VANCOUVER 1741 Boundary Road Vancouver, B.C. V5M 3Y7 (604) 294-3441 (Tel.) (604) 294-3574 (Fax)

#### 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...

In U.S.A., Puerto Rico, or the U.S. Virgin Islands, contact Philips Service Company at the address listed below.

In Canada, contact:

Philips Electronics Ltd.
601 Milner Avenue, Scarborough, Ontario, M1B 1M8
(416) 292-5161
4977 Levy Street, St. Laurent, Québec, H4R 2N9
(514) 956-0120
1741 Boundary Road, Vancouver, B.C., V5M 3Y7
(614) 294-3441

#### 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#
SFRIAL#

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

## **Optional Accessories**

Prices subject to change without notice. Availability subject to change at time of purchase. When ordering accessories outside the U.S.A., please refer to the accessories material, address, and prices for that country.

Maximize your viewing pleasure
with state-of-the-art accessories
designed specifically for your
Projection Television. The
optional accessories shown in
this booklet may be purchased
from your local dealer, or may
be ordered direct from Philips
Consumer Electronics
Company.

Call toll-free

1-800-292-6066

Or write

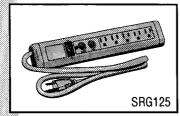
Philips Consumer

Electronics Co.,

Accessories Marketing Dept.,

P.O. Box 967.

Greeneville, TN 37744-0967



### TV/Cable Surge Protector

Your Cost \$19.95

Electrical fluctuations and power surges can damage your valuable electronic entertainment equipment. Protect your antenna, cable, and electrical lines with Magnavox Audio/Video Equipment Surge Protectors.

#### Features:

- Coaxial cable input/output
- Five grounded outlets
- . Built-in LED and reset button

#### Screen Enhancers and Screen Enhancer Cleaning Kit

Enhances your TV picture while protecting the TV screen. This easy-to-install tinted, plexiglass screen visibly improves picture sharpness and provides protection from scratches and foreign material. Order the Screen Enhancer Cleaning Kit to maintain the quality and performance of your screen enhancer.

Screen Enhancer Cleaning Kit 4835 395 17265



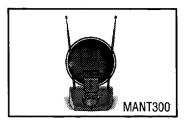
#### Universal Night Lite™ Audio/Video Remote

Your Cost \$24.95

Replace your lost or broken remote control, or consolidate all your remotes into one. Plus, make remote easier to use in dimly-lit areas, with our Night Lite<sup>TM</sup> lighted keypad.

#### Features:

- Preprogrammed
- Autoscan and manual code setup
- · On-screen capabilities
- · Menu programming
- · Spanish instructions included
- Toll-free customer assistance number included



#### Smart Amplifier Amplified VHF/UHF/FM Indoor Antenna

Your Cost \$34.95

Drastically improves VHF/UHF/FM reception on your TV or stereo. Simply attach antenna to your TV/stereo and enjoy crisper, clearer sound and improved picture quality. Adjustable UHF loop tilts and rotates for the best possible reception.

#### Features:

- 39" retractable dipoles
- 6' 75 ohm coax connection cable
- . Matching transformer included
- Soft base prevents scratching surfaces
- Active antenna with amplifier with up to 20 dB gain
- LED power indicator on front of antenna: easy to see while watching TV
- Knob on top of antenna serves as gain and power switch
- AC/DC power adapter included
- 90-day warranty

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