Projection
Television

Instructions for use
9P5031C1
9P5531C1
9P6031C1
9P5034C1
9P5534C1
9P6034C1

Let's make things better.

PHILIPS **MAGNAVOX**

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

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

•Warranty Verification

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

•Owner Confirmation

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

•Model Registration

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

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

PHILIPS MAGNAVOX

REGISTRATION NEEDED WITHIN 10 DAYS Hurry! PHILIPS MAGNAVOX

Dear PHILIPS MAGNAVOX product owner:

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

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

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

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome–and thanks for investing in a PHILIPS MAGNAVOX product.

Sincerely,

Robert Minkhorst
President and Chief Executive Officer

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

Know these **safety** *symbols*

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

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

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

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

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

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

PHILIPS MAGNAVOX *Visit our World Wide Web Site at http://www.philipsmagnavox.com*

SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.
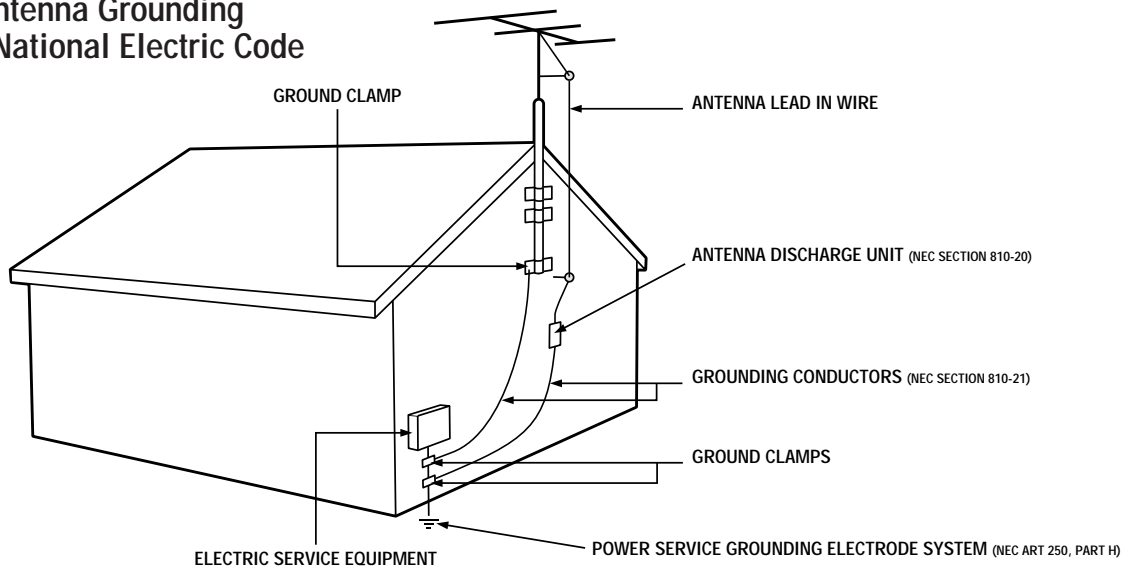
1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **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.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
6B. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
   - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
   - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
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.
9. **Heat** - The appliance should be situated away from heat 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.
12. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
13. **Power Lines** - An outdoor antenna should be located away from power lines.
14. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

    Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.
15. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
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
    B. Objects have fallen, or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
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.

Example of Antenna Grounding as per NEC - National Electric Code

GROUND CLAMP

ANTENNA LEAD IN WIRE

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUND CLAMPS

ELECTRIC SERVICE EQUIPMENT

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

TABLE OF CONTENTS

SET-UP AND QUICK USE GUIDE

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

• Antenna Hook-ups

• First Time Set-Up
 (Automatic Settings)

• Basic TV and Remote
 Control Operation

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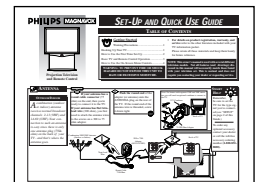
NOTE: This owner's manual is used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television set. This is normal and does not require you contacting your dealer or requesting service.

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

First Time Set Up - automatically sets the TV for local channels and the correct picture signal (antenna or cable). See your Set-up and Quick Use Guide for details.

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

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

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

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

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

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

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

Parental Controls - for "censoring" or blocking out channels to keep children from watching undesirable programming.

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

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

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

Smart Button - for the control of TV Sound and 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 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).

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

While there may exist some digital devices with connections not available on this television, you should be adequately prepared for the vast majority of products coming onto the digital consumer electronics' market. Note: You should always use the connection output on digital devices that gives the highest level of picture quality possible. As listed above the Component Video (or Y P_B P_R) input delivers the best color and picture reproduction; followed by S-Video; and then Composite Video. In addition to the above listed inputs, your television also includes the standard 75ohm cable signal connector for use with antennas or analog cable boxes.

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

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

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

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

End-of-Life disposal

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

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

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

COLOR, BRIGHTNESS, SHARPNESS, TINT, PICTURE

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

(BEGIN)

1 **Select BRIGHTNESS, PIC-TURE, COLOR, TINT, or SHARPNESS** picture control.

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

2 **Press the (+) or (-) buttons** to adjust the selected control.

3 **Press the STATUS** button to clear the screen.

STOP

SMART HELP

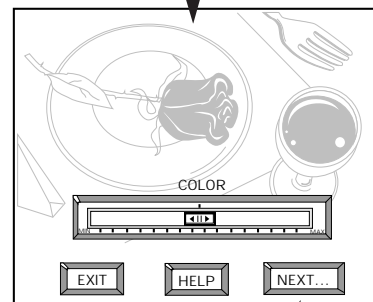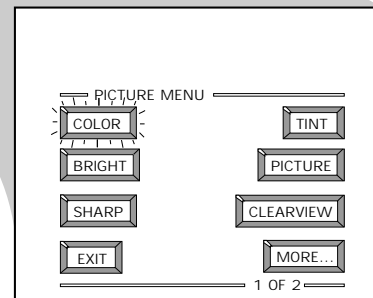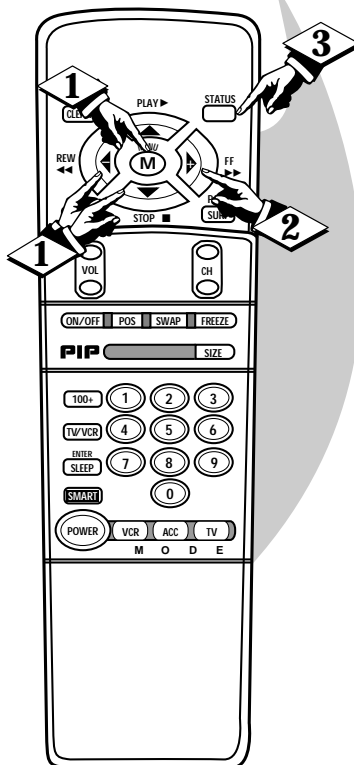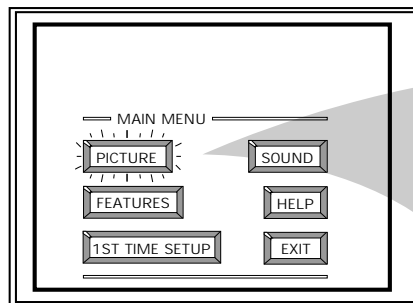Remember. When the bar scale is centered, control settings are at normal mid-range levels.

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 7 for more information).

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

— MAIN MENU —

PICTURE   SOUND

FEATURES   HELP

1ST TIME SETUP   EXIT

— PICTURE MENU —

COLOR   TINT

BRIGHT   PICTURE

SHARP   CLEARVIEW

EXIT   MORE…

1 OF 2

COLOR

EXIT   HELP   NEXT…

Select and then press MENU (M) button to view an explanation of the selected feature.

Select and then press MENU (M) button to view additional controls grouped under same feature heading. For Example: Tint, Brightness, Picture, etc.

PLAY ▶   STATUS

REW ◀◀   FF ▶▶

M

STOP ■

VOL   CH

ON/OFF   POS   SWAP   FREEZE

PIP   SIZE

100+   1   2   3

TV/VCR   4   5   6

ENTER/SLEEP   7   8   9

SMART   0

POWER   VCR   ACC   TV

M O D E

CLEARVIEW

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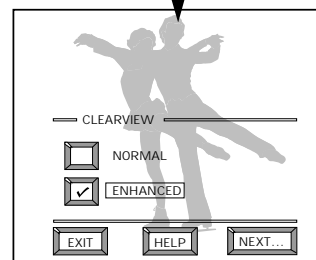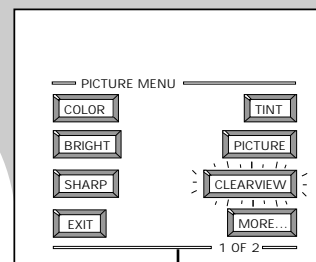
(BEGIN)

1 **Select CLEARVIEW** control.

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

2 **Press the MENU ▲▼ buttons** to move the RED highlight. Press the MENU button to select (✔) the ENHANCED mode.

3 **Press the STATUS** button to clear the screen.

STOP
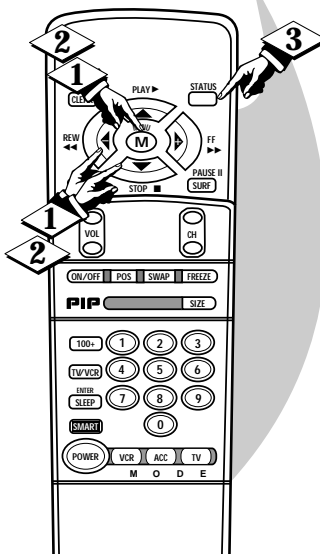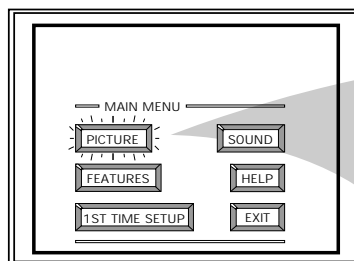
FLESH CORRECTION

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 ✦ buttons. Then press the MENU (M) 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.

STOP
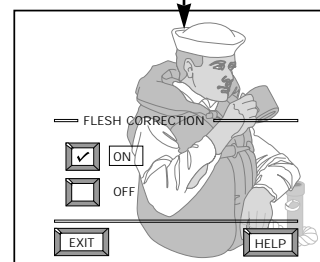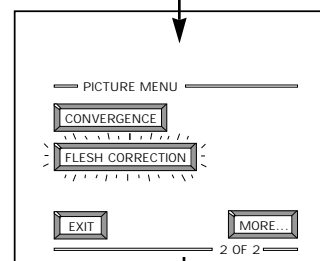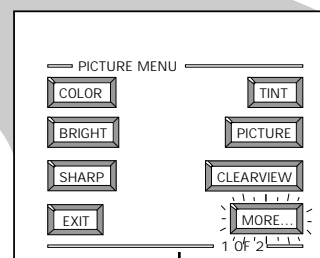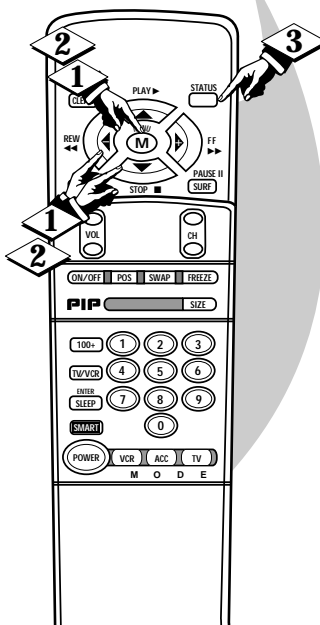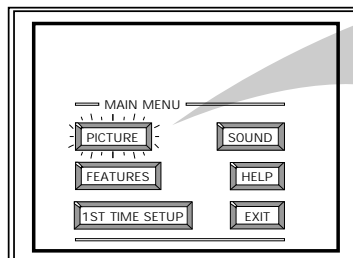
RED/BLUE CONVERGENCE

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

1 **Select CONVERGENCE** control.

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

2 **If there is RED or BLUE** color fringing on the White cross, press the MENU button to continue.

3 **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).

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

STOP

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.

MAIN MENU

PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

PICTURE MENU

COLOR   TINT
BRIGHT   PICTURE
SHARP   CLEARVIEW
EXIT   MORE...

1 OF 2

PICTURE MENU

CONVERGENCE
FLESH CORRECTION

EXIT   MORE...

2 OF 2
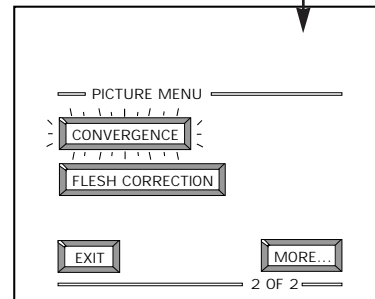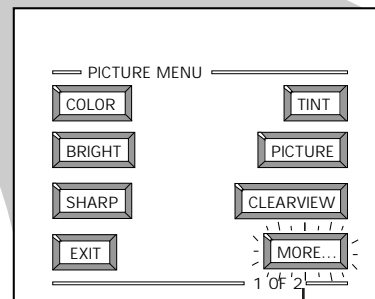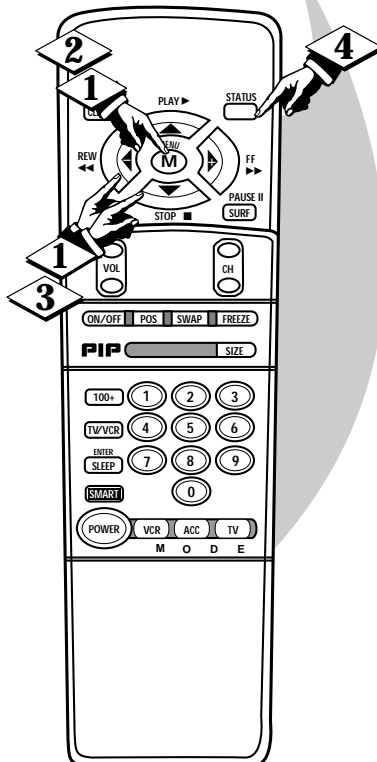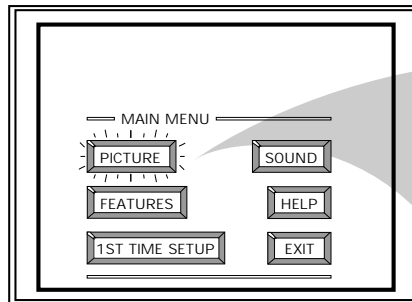
If there is RED or BLUE fringe on the WHITE cross, use this adjustment to improve the picture.

Press "M" to Continue
- or -
Press "▶" to Return

Use the ⬥ keys to merge the RED fringe into the WHITE cross. Press "M" to Continue.
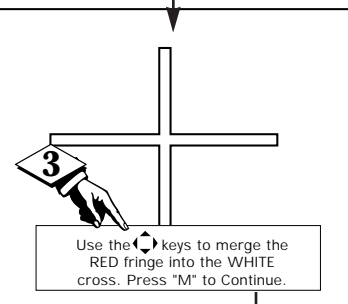
NOTE: Adjustments for "Multi-Point" on-screen color fringing can also be made as part of the TV's Convergence control system. Follow the TV's on-screen menu directions to select individual screen areas that can be readjusted and set for varying red/blue color fringing conditions. These multi-point settings can then be "Saved" to memory for the specific areas of the TV screen (or Factory Settings for convergence can be recalled and put back into place for use).

MULTI-POINT CONVERGENCE

Use the ⬥ keys to adjust

+ + + +
+ + [+] +
+ + + +
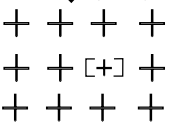
Press "M" to Adjust or
Press "STATUS" to Continue

Press "M" to Save
Press "▶" to Undo

+ + + +
+ + [+] +
+ + + +
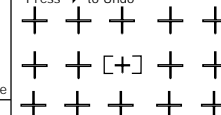
Press "▲" to
recall Factory Settings

PICTURE SOURCE

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

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

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

AUX 2 VIDEO- for a picture signal coming from the AUX 2 Video Input jack on the rear of the TV.

3 **Press the STATUS** button to clear the screen.

(STOP)
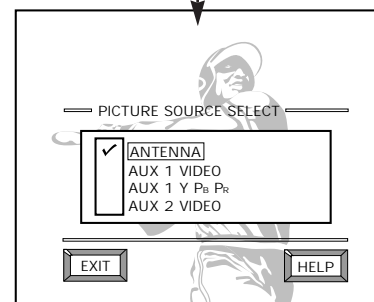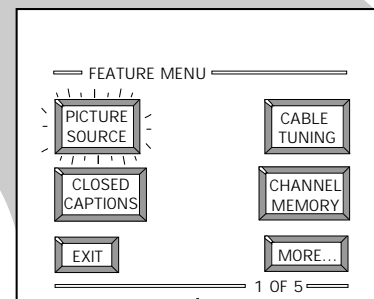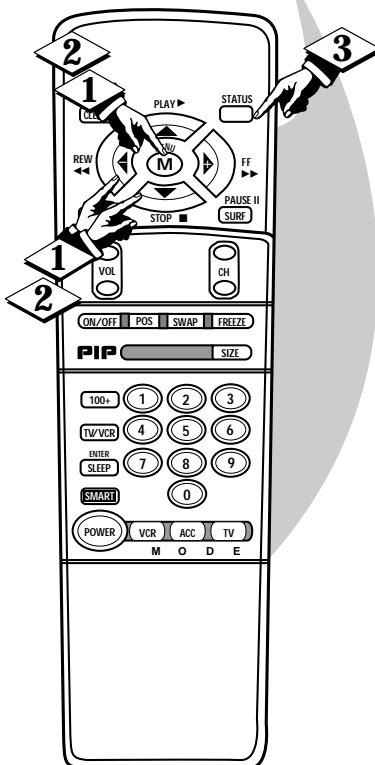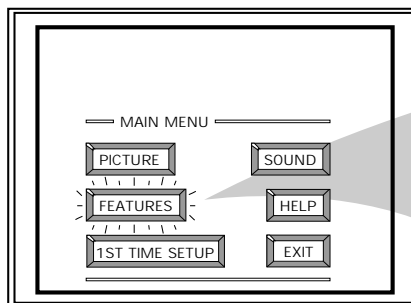
SMART HELP

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

MAIN MENU

PICTURE   SOUND

FEATURES   HELP

1ST TIME SETUP   EXIT

FEATURE MENU

PICTURE SOURCE   CABLE TUNING

CLOSED CAPTIONS   CHANNEL MEMORY

EXIT   MORE…

1 OF 5

PICTURE SOURCE SELECT

✓ ANTENNA
AUX 1 VIDEO
AUX 1 Y PB PR
AUX 2 VIDEO

EXIT   HELP

CLOSED CAPTION

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

(BEGIN)

1 **Select CLOSED CAPTIONING** control.

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

3 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 viewing.

(STOP)

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.
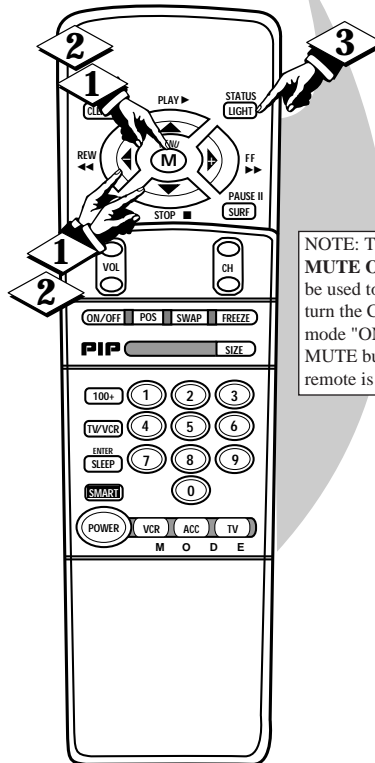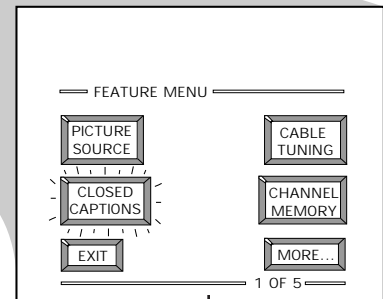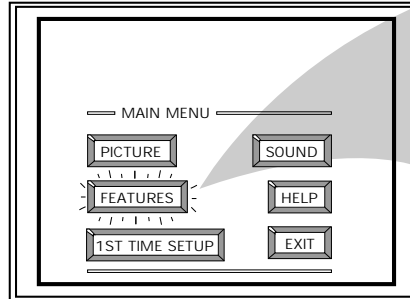
NOTE: The **ON DURING MUTE ONLY** control can be used to set the TV to turn the Closed Caption mode "ON" whenever the MUTE button on the remote is pressed.
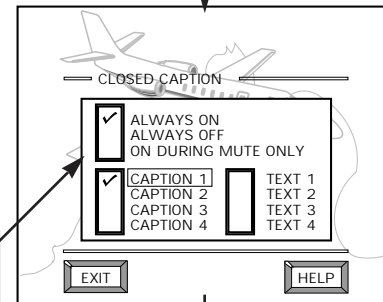
CAPTION 1 mode
Example Screen Display

Closed Caption information will usually appear in black and white (although some broadcasters or networks may occasionally use color to highlight or draw attention to certain areas.)
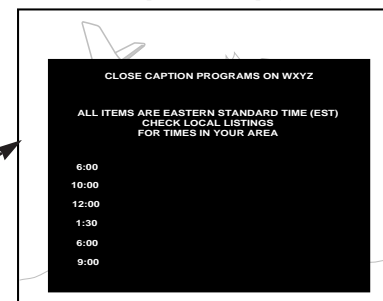
FULL SCREEN TEXT
will block TV screen from viewing

This symbol will appear on channels that contain Closed Captioning material whenever the status display is shown.

CC
12:00

10
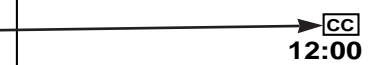
CABLE TUNING

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

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

(BEGIN)

1 **Select CABLE CHANNEL TUNING** control.

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

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

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

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

3 **Press the STATUS** button to clear the screen.

STOP

MAIN MENU

PICTURE   SOUND

FEATURES   HELP

1ST TIME SETUP   EXIT

FEATURE MENU

PICTURE SOURCE   CABLE TUNING

CLOSED CAPTIONS   CHANNEL MEMORY

EXIT   MORE…

1 OF 5

CABLE TUNING

✔ CABLE

☐ NORMAL

EXIT   HELP

CHANNEL MEMORY

AUTO-PROGRAMMING

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

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.

(BEGIN)

1 **Select CHANNEL MEMORY (START AUTO-PROGRAM-MING)** control.

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

2 **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.

3 **Press the STATUS or Menu (M)** button to clear the screen.

(STOP)

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.

MAIN MENU

PICTURE   SOUND

FEATURES   HELP

1ST TIME SETUP   EXIT

FEATURE MENU

PICTURE SOURCE   CABLE TUNING

CLOSED CAPTIONS   CHANNEL MEMORY

EXIT   MORE…

1 OF 5

CHANNEL MEMORY

ADD/DELETE CHANNELS

START AUTO-PROGRAMMING

EXIT   HELP

AUTO-PROGRAMMING CHANNEL MEMORY

1	2✔	3✔	4✔
5✔	6✔	7✔	8✔
9✔	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Press "M" to Stop Auto-Program
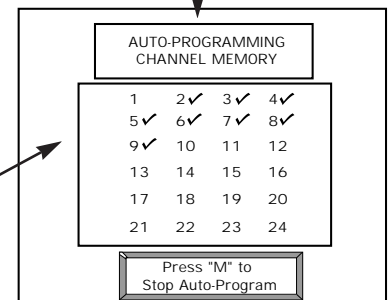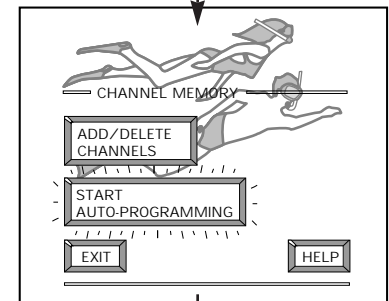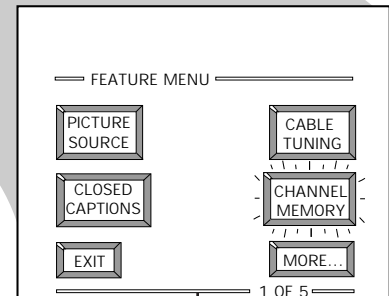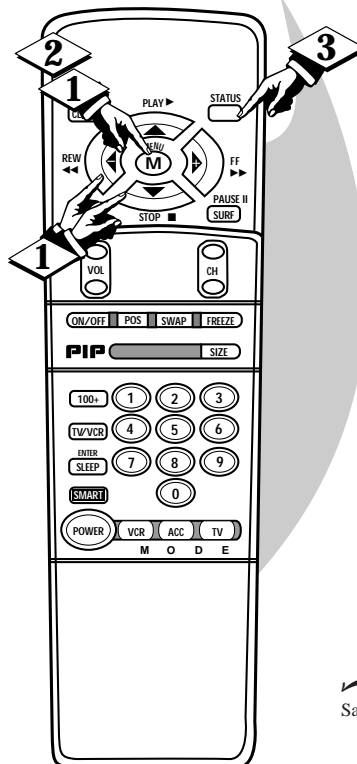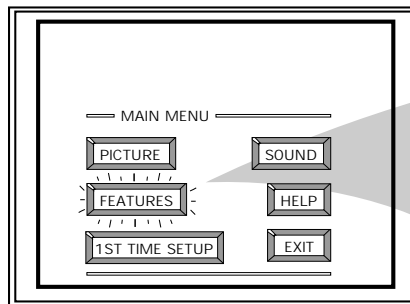
✔ Channel Numbers are Saved in Memory

PLAY ► STATUS
REW ◄◄ M FF ►►
STOP ■ PAUSE II SURF
VOL CH
ON/OFF POS SWAP FREEZE
PIP SIZE
100+ 1 2 3
TV/VCR 4 5 6
ENTER SLEEP 7 8 9
SMART 0
POWER VCR ACC TV
M O D E

ADD/DELETE CHANNELS

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

(BEGIN)

1 **Select CHANNEL MEMORY (ADD/DELETE CHANNELS)** control.

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

4 **Press the STATUS or MENU** button to clear the screen.

(STOP)
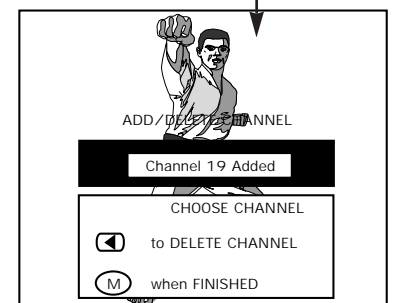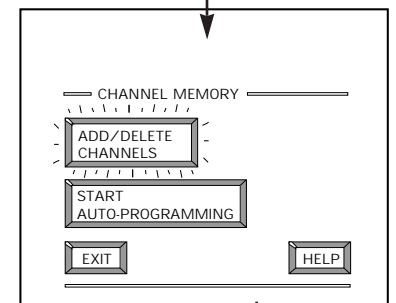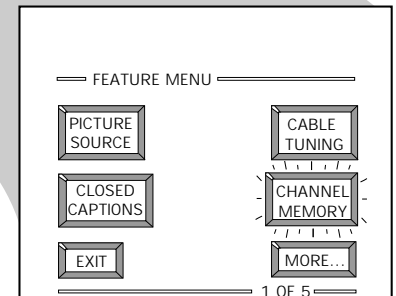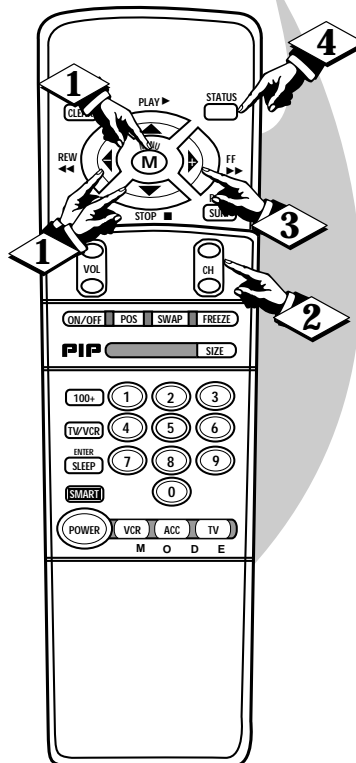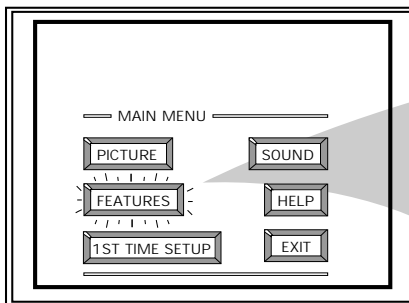
SMART HELP

Remember. You can also add the AUX 1 VIDEO, AUX 2 VIDEO, or AUX 1 Y PB PR, modes just like a channel. Then by pressing the CHANNEL ▲▼ buttons the AUX(iliary) mode can quickly be selected to use the desired set of Input jacks (see page 28).

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

MAIN MENU — PICTURE, SOUND, FEATURES, HELP, 1ST TIME SETUP, EXIT

FEATURE MENU — PICTURE SOURCE, CABLE TUNING, CLOSED CAPTIONS, CHANNEL MEMORY, EXIT, MORE… 1 OF 5

CHANNEL MEMORY — ADD/DELETE CHANNELS, START AUTO-PROGRAMMING, EXIT, HELP

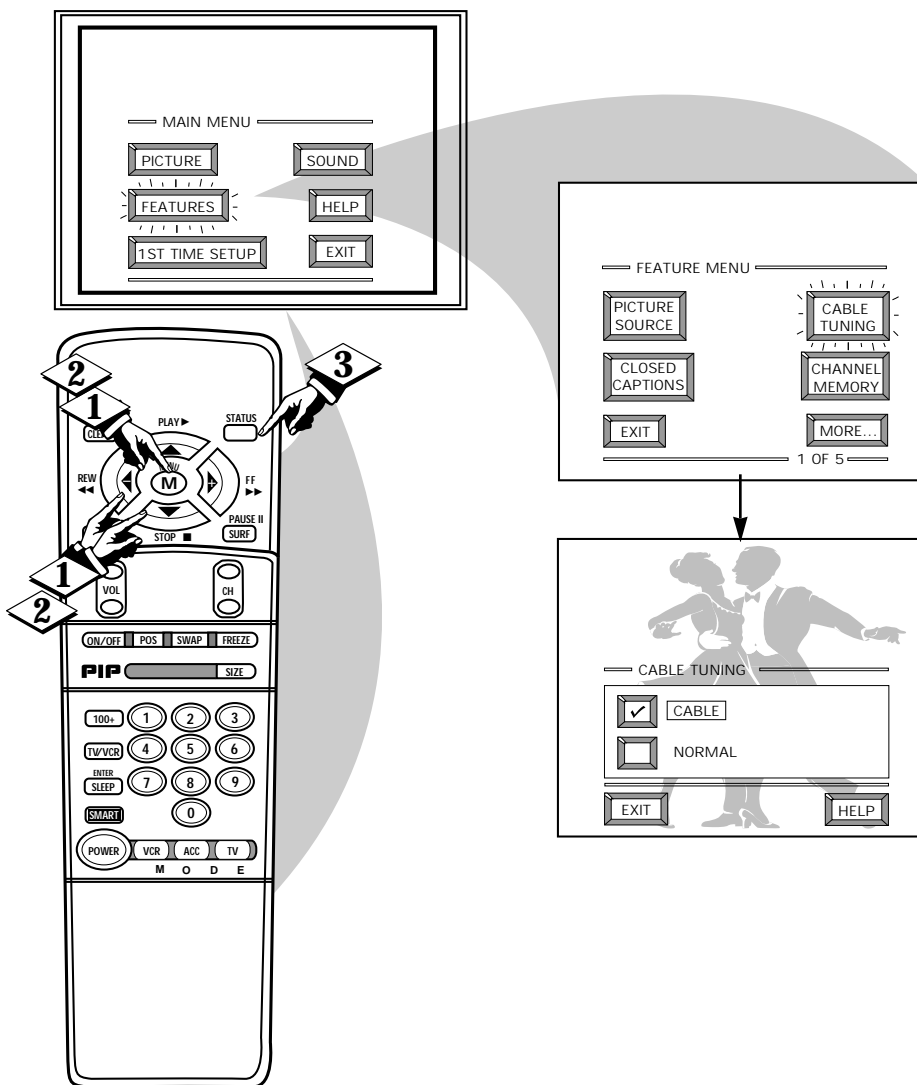ADD/DELETE CHANNEL — Channel 19 Added — CHOOSE CHANNEL — ◀ to DELETE CHANNEL — M when FINISHED

SET CLOCK

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

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

(BEGIN)

1 **Select SET CLOCK** control.

With FEATURES MENU (2 of 5) on screen, move the RED highlight with the MENU ◆ buttons. Then press the MENU (M) button.

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

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

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

(STOP)

MAIN MENU
PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

FEATURE MENU
PICTURE SOURCE   CABLE TUNING
CLOSED CAPTIONS   CHANNEL MEMORY
EXIT   MORE...
1 OF 5

FEATURE MENU
SET CLOCK & ALARM TIMER   SLEEP TIMER
HALF HOUR REMINDER   CHANNEL DISPLAY
EXIT   MORE...
2 OF 5

SET CLOCK & ALARM TIMER
SET CLOCK
SET ALARM TIMER
EXIT

SET CLOCK
9 : 19 AM
PLEASE ENTER THE CURRENT HOUR
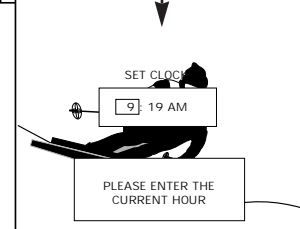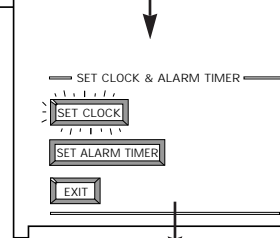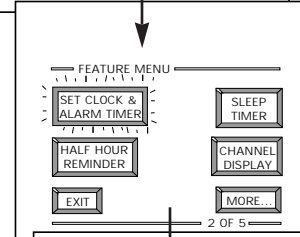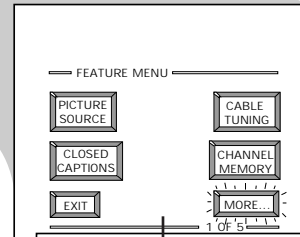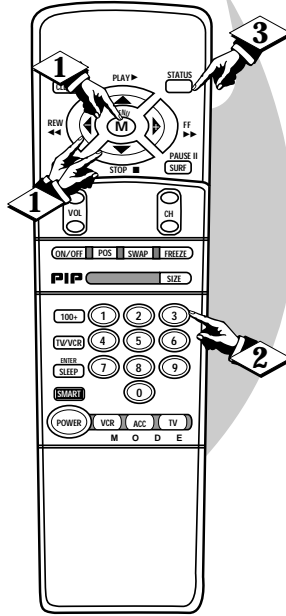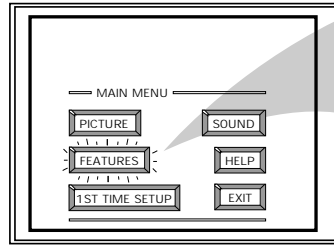
SMART HELP

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

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

HALF HOUR REMINDER

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

(BEGIN)

1 **Select HALF HOUR REMINDER** control.

With FEATURES MENU (2 of 5) on screen, move the RED high-light with the MENU ◆ buttons. Then press the MENU (M) 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.

(STOP)

MAIN MENU
PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

FEATURE MENU
PICTURE SOURCE   CABLE TUNING
CLOSED CAPTIONS   CHANNEL MEMORY
EXIT   MORE...
1 OF 5

FEATURE MENU
SET CLOCK & ALARM TIMER   SLEEP TIMER
HALF HOUR REMINDER   CHANNEL DISPLAY
EXIT   MORE...
2 OF 5

HALF HOUR REMINDER
OFF
✔ EVERY HALF HOUR
EXIT   HELP
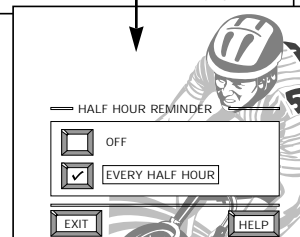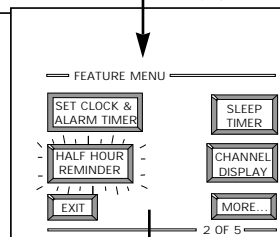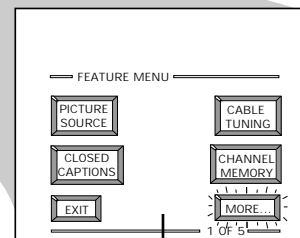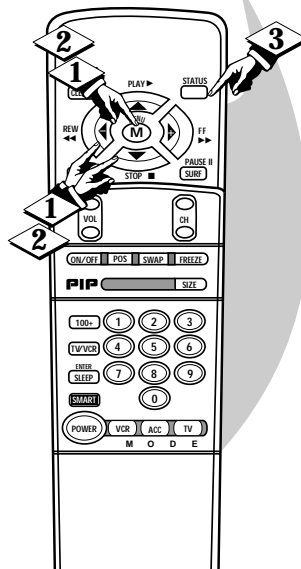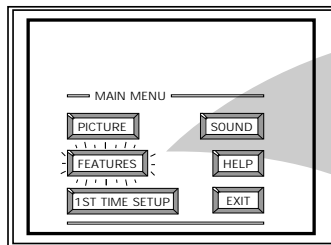
SMART HELP

Remember, the Time and Channel Reminders will show on the hour and the half-hour for several seconds.

SET ALARM TIMER

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

(BEGIN)

1 **Select SET ALARM TIMER** control.

With FEATURES MENU (2 of 5) 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 "ON" (✓).

3 **Press the MENU ▲▼ and then the MENU (M)** buttons to select "SET ALARM TIME".

4 **Press the remote's number buttons** to set the "TURN ON" time for the TV. (Press MENU ▲ ▼ for AM or PM.)

5 **Press the STATUS** button to set the "ALARM TIME" and clear the screen. **(STOP)**

--- MAIN MENU ---
PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

--- FEATURE MENU ---
PICTURE SOURCE   CABLE TUNING
CLOSED CAPTIONS   CHANNEL MEMORY
EXIT   MORE...
1 OF 5

--- FEATURE MENU ---
SET CLOCK & ALARM TIMER   SLEEP TIMER
HALF HOUR REMINDER   CHANNEL DISPLAY
EXIT   MORE...
2 OF 5

--- SET CLOCK & ALARM TIMER ---
SET CLOCK
SET ALARM TIMER
EXIT

--- SET ALARM TIMER ---
✓ ON
OFF
SET ALARM TIME
EXIT   HELP

SET ALARM TIME
7 : 30 AM
PLEASE ENTER THE HOUR TO TURN ON

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)

1 **Press the SLEEP** button on the remote control.

Note: you can also select the SLEEP control with the TV's on-screen FEATURES MENU (2 of 5). Move the RED highlight with the MENU (M) buttons. Then press the MENU button.

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

The (+), (-) buttons can also be used to set the amount of time.

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

SET SLEEP TIMER
1 : 15
Press SLEEP to CHANGE
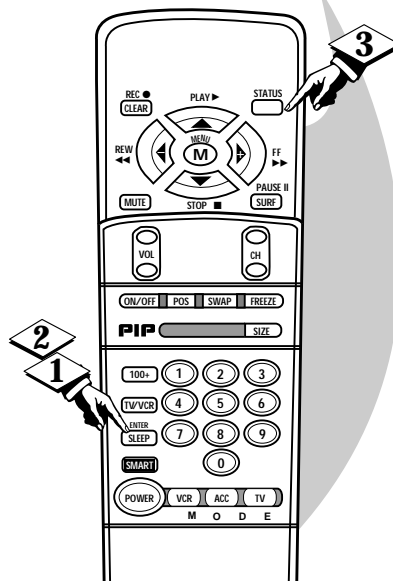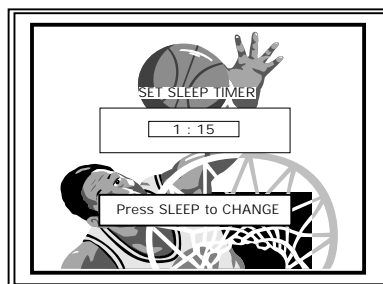
SMART HELP

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.*

PARENTAL CONTROL
SETUP CODE NUMBER

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

First let's set your Parental Code:

BEGIN

1 **Select the PARENTAL CONTROL.**

With FEATURES MENU (3 of 5) on screen, move the RED highlight with the MENU ▼ buttons. Then press the MENU (M) button.

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

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

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

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

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

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

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

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

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

SMART HELP

Note to Parents - it isn't possible to unlock or defeat your Censor Access 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.

--- MAIN MENU ---

PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

--- FEATURE MENU ---

PICTURE SOURCE   CABLE TUNING
CLOSED CAPTIONS   CHANNEL MEMORY
EXIT   MORE...
1 OF 3

--- FEATURE MENU ---

SET CLOCK & ALARM TIMER   SLEEP TIMER
HALF HOUR REMINDER   CHANNEL DISPLAY
EXIT   MORE...
2 OF 3

--- FEATURE MENU ---

PARENTAL CONTROL
LANGUAGE SELECTION
EXIT   MORE...
3 OF 5

--- PARENTAL CONTROL ---

CONTENT ADVISORY   SETUP CODE
CHANNEL BLOCKING
EXIT   HELP

ACCESS CODE SETUP

X X X X

First Enter Your Current Access Code.
M to EXIT

ACCESS CODE SETUP

X X X X
INCORRECT ACCESS CODE

TRY AGAIN. If You've Forgotten Your Access Code go to SETUP CODE and see Owner's Manual.
M to EXIT

ACCESS CODE SETUP

X X X X

Next Enter Your New Access Code.
M to EXIT

ACCESS CODE SETUP

X X X X

Access Code Changed.
▶ for CHANNEL BLOCKING
◀ for CONTENT ADVISORY
M to EXIT

- **Press MENU ▶** to go on and start to "block" channels.
- **Press MENU ◀** to go to "Content Advisory" (or TV and Movie Ratings system of channel blocking).
- **Press MENU** to return to the Parental Control Menu screen.
- **Press STATUS** to clear the screen.

PARENTAL CONTROL
CHANNEL BLOCKING

After you Setup your personal Parental Access Code number (see previous page), you are now ready to select the channels you want to block out or censor from viewing.

BEGIN

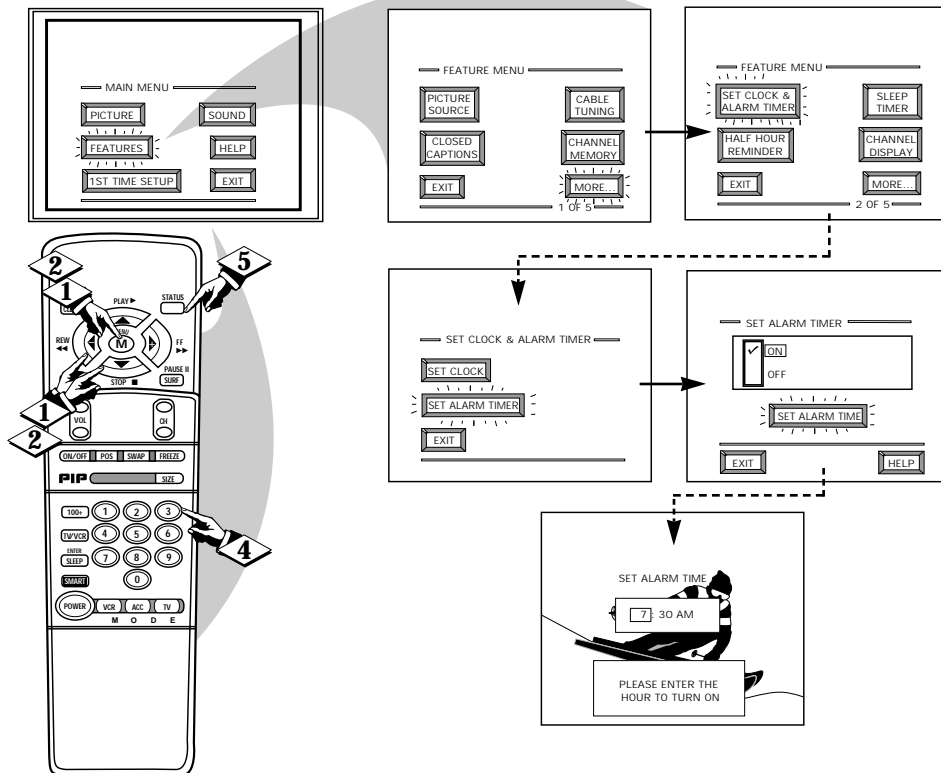**1** **Select the CHANNEL BLOCKING** control.

With FEATURES MENU (3 of 5) on screen, move the RED highlight with the MENU ⬆⬇ buttons. Then press the MENU (M) button.

2 **Press the MENU ▲▼ and MENU (M) buttons** to highlight and select the CHANNEL BLOCKING Menu item.

3 **Enter the correct Parental Code** number (see previous page).

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.
Press the MENU ◀ button to "ALLOW VIEWING" on a blocked channel.

Repeat steps 4 and 5 for any other channels you wish to block out.

STOP

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.

MAIN MENU
PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

FEATURE MENU
PICTURE SOURCE   CABLE TUNING
CLOSED CAPTIONS   CHANNEL MEMORY
EXIT   MORE...
1 OF 3

FEATURE MENU
SET CLOCK & ALARM TIMER   SLEEP TIMER
HALF HOUR REMINDER   CHANNEL DISPLAY
EXIT   MORE...
2 OF 3

FEATURE MENU
PARENTAL CONTROL
LANGUAGE SELECTION
EXIT   MORE...
3 OF 5

PARENTAL CONTROL
CONTENT ADVISORY   SETUP CODE
CHANNEL BLOCKING
EXIT   HELP

CHANNEL BLOCKING MEMORY
X X X X
To Block or Un-Block Channels, First Enter your Access Code.
M   to EXIT

CHANNEL BLOCKING MEMORY
Channel 19 blocked
SELECT CHANNEL
◀   to ALLOW VIEWING
M   to EXIT

CHANNEL 19
CHANNEL BLOCKING ACTIVE
X X X X
Please enter Access Code
-OR-
Select another Channel
for viewing.

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

Note: You can also block out the use of the Audio/Video Input jacks on the rear of the TV. This stops the viewing of VCR programs which can be shown through the A/V IN jacks. Just select AUX 1 or AUX 2 VIDEO (located between the lowest and highest channel numbers) on the Channel Blocking screen, and select "blocked".

PARENTAL CONTROL
CONTENT ADVISORY

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

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

BEGIN

1 Select the CONTENT ADVI-SORY Menu option

With PARENTAL CONTROL Menu on screen, move the RED highlight with the MENU ◆ buttons. Then press the MENU (M) button.

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

2 Press the MENU ▶ button to select the ENTER ACCESS CODE Menu item.

3 Enter the correct Parental Code number (see note at the top of this page).

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

STOP

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

PARENTAL CONTROL

CONTENT ADVISORY   SETUP CODE

CHANNEL BLOCKING

EXIT   HELP

CONTENT ADVISORY [DISABLED]

TV PARENTAL GUIDELINES BLOCKED	MOVIE RATINGS BLOCKED
TV-Y	PG
TV-Y7 FV	PG-13
TV-G	R
TV-PG DLSV	NC-17
TV-14 DLSV	X
TV-MA LSV	

▶ to ENTER ACCESS CODE
Ⓜ to EXIT

CONTENT ADVISORY ACCESS

X X X X

To Block or Un-Block Programs, First Enter your Access Code.

Ⓜ to EXIT

CONTENT ADVISORY

PARENTAL GUIDELINES   MOVIE RATINGS

REVIEW SETTINGS   BLOCKING OPTIONS

EXIT   HELP

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

X X X X

Please enter Access Code
-OR-
Select another Channel
for viewing.

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

CONTENT ADVISORY
MOVIE RATINGS

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

(BEGIN)

1 ▷ Select the MOVIE RATINGS Menu option.

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

2 ▷ Press the MENU ▲▼ and MENU (M) buttons to highlight and select (✔) the desired MOVIE BLOCKING level.

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

STOP

SMART HELP

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

CONTENT ADVISORY

PARENTAL GUIDELINES | MOVIE RATINGS
REVIEW SETTINGS | BLOCKING OPTIONS

EXIT | HELP

MOVIE BLOCKING

G
PG
✔ PG-13
R
NC-17
X

EXIT | HELP

PLAY ▶ STATUS
REW ◀◀ MENU (M) FF ▶▶
PAUSE II
MUTE STOP ■
VOL CH
ON/OFF POS SWAP FREEZE
PIP SIZE
100+ 1 2 3
TV/VCR 4 5 6
ENTER/SLEEP 7 8 9
SMART 0
POWER VCR ACC TV
M O D E
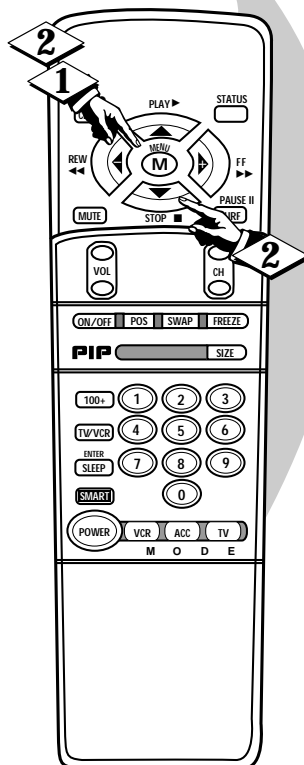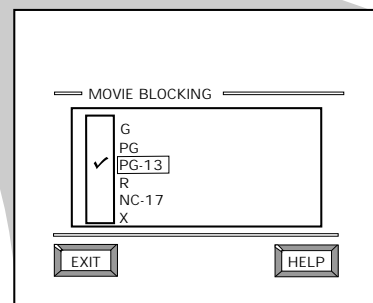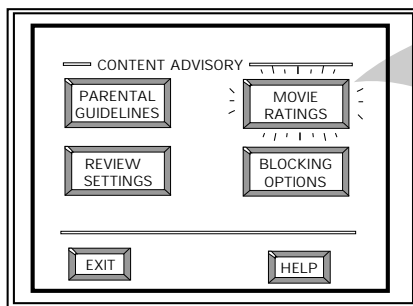
- **G - General Audience:** Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.
- **PG - Parental Guidance:** This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.
- **PG-13**: This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.
- **R - Restricted:** This programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian. It contains one or more of the following: intense violence, intense sexual situations, strong coarse language, or intensely suggestive dialogue.
- **NC-17 - No one under 17 admitted**: This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude indecent language.
- **X - Mature audience only**: This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

CONTENT ADVISORY
PARENTAL GUIDELINES

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

(BEGIN)

1 ▷ Select the PARENTAL GUIDELINES Menu option.

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

2 ▷ Press the MENU ◄ ► to highlight and select the desired PARENTAL GUIDELINE rating level (TV-Y, TV-Y7, etc.).

3 ▷ Press the MENU ▲▼ and MENU (M) buttons to Block (✔) the selected Parental Guideline category (or to set other individual blocking feature items available within that Guideline category (L, V. S, D, etc.) as desired).

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

STOP

SMART HELP

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

CONTENT ADVISORY

PARENTAL GUIDELINES | MOVIE RATINGS

REVIEW SETTINGS | BLOCKING OPTIONS

EXIT | HELP

PARENTAL GUIDELINES

◄► To Select Rating
TV Y | TV Y7 | TV G | TV PG | TV 14 | TV MA

▲▼ To Select Blocking
NOT BLOCKED
✔ ALWAYS BLOCKED
(FV) FANTASY VIOLENCE

EXIT

PARENTAL GUIDELINES

◄► To Select Rating
TV Y | TV Y7 | TV G | TV PG | TV 14 | TV MA

▲▼ To Select Blocking
NOT BLOCKED
ALWAYS BLOCKED
✔ (L) LANGUAGE
✔ (V) VIOLENCE
✔ (S) SEXUAL CONTENT
✔ (D) SUGGESTIVE DIALOG

EXIT | HELP

• **TV-Y - Appropriate for all children:** Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

• **TV-Y7 -Appropriate for children seven and older:** It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

• **TV-G - General Audience:** This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

• **TV-PG - Parental Guidance suggested:** This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

• **TV-14 - Unsuitable for children under 14:** This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

• **TV-MA - Mature audience only:** This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

• **(V) - Violence**
• **(S) - Sexual situations**
• **(L) - Language**
• **(D) - Inappropriate dialogue**
• **(FV) - Fantasy Violence** may frighten children under seven. Some cartoons may have this rating. Available in the TV-Y7 category only.

CONTENT ADVISORY BLOCKING OPTIONS

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

(BEGIN)

1 Select the BLOCKING OPTIONS Menu control.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU ♥ buttons. Then press the MENU (M) button.

2 Press the MENU ▲▼ and MENU (M) buttons to turn the Blocking System On (highlight and select ✔ ENABLED). Then use the remote Menu buttons to select the desired programming and information blocking options.

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

(STOP)

```
═══ CONTENT ADVISORY ═══
PARENTAL              MOVIE
GUIDELINES           RATINGS

REVIEW               BLOCKING
SETTINGS             OPTIONS

EXIT                 HELP
```

```
═══ BLOCKING OPTIONS ═══

Blocking System:
   DISABLED
 ✔ ENABLED

Set ✔ To Block On:
 ✔ CHANNEL CHANGE
 ✔ UNRATED PROGRAMMING
 ✔ NO RATING INFORMATION

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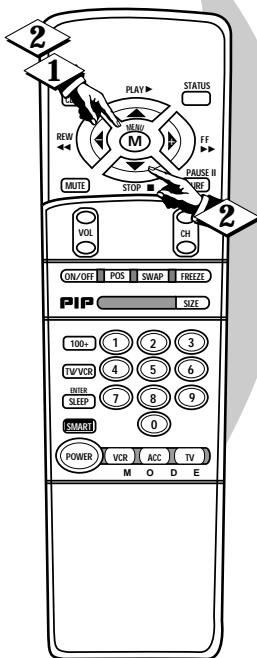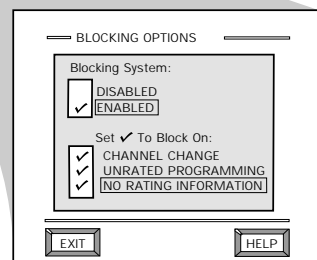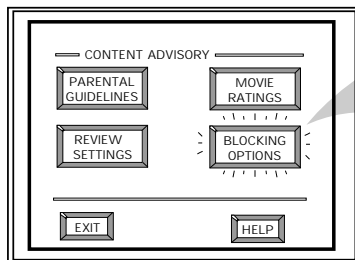
Note: Remember that Content Advisory data or encoded information is not available with all received TV programming (this also includes commercials, and other program spot announcements). Broadcaster's can decide **not to encode** any kind of content advisory ratings with their programming, or they can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

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

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

CONTENT ADVISORY REVIEW SETTINGS

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

(BEGIN)

1 Select the REVIEW SETTINGS Menu option.

With CONTENT ADVISORY Menu on screen, move the RED highlight with the MENU ♥ buttons. Then press the MENU (M) button.

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

(STOP)

```
═══ CONTENT ADVISORY ═══
PARENTAL              MOVIE
GUIDELINES           RATINGS

REVIEW               BLOCKING
SETTINGS             OPTIONS

EXIT                 HELP
```

```
CONTENT ADVISORY  ENABLED

TV PARENTAL          MOVIE
GUIDELINES          RATINGS
BLOCKED             BLOCKED

TV-Y                PG
TV-Y7 FV            PG-13
TV-G                R
TV-PG DLSV          NC-17
TV-14 DLSV          X
TV-MA  LSV

        M  to EXIT
```
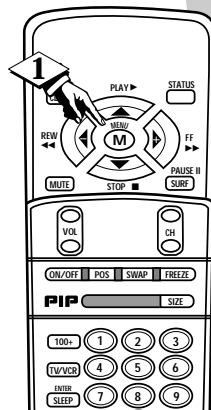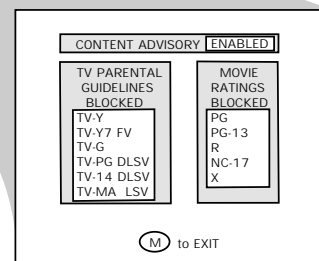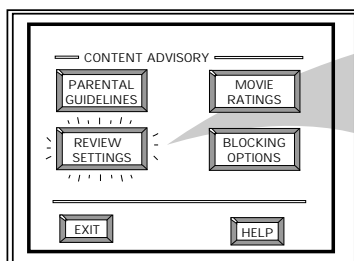
CHANNEL DISPLAY

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

(BEGIN)

1 **Select CHANNEL DISPLAY** control.

With FEATURES MENU (2 of 5) on screen, move the RED highlight with the MENU ⬥ buttons. Then press the MENU (M) button.

2 **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.

(STOP)
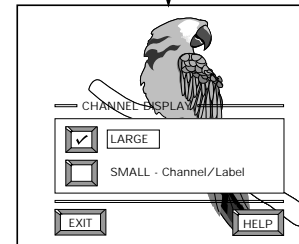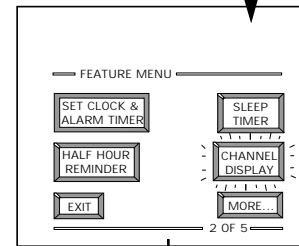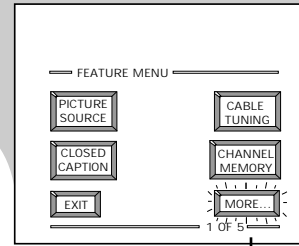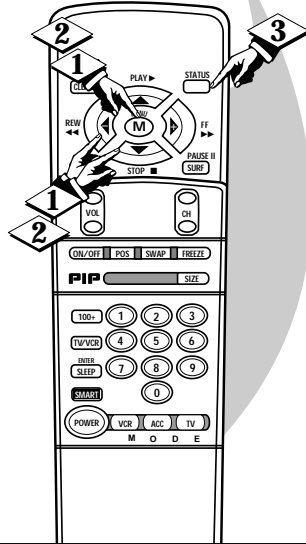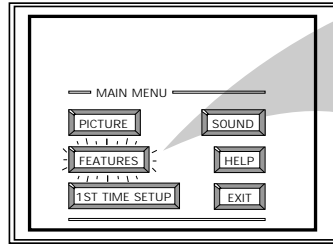
SMART HELP

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).

MAIN MENU

PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

FEATURE MENU

PICTURE SOURCE   CABLE TUNING
CLOSED CAPTION   CHANNEL MEMORY
EXIT   MORE...
1 OF 5

FEATURE MENU

SET CLOCK & ALARM TIMER   SLEEP TIMER
HALF HOUR REMINDER   CHANNEL DISPLAY
EXIT   MORE...
2 OF 5

CHANNEL DISPLAY

✔ LARGE
☐ SMALL - Channel/Label

EXIT   HELP

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)

1 **Select the LANGUAGE DISPLAY** control.

With FEATURES MENU (3 of 5) on screen, move the RED highlight with the MENU ⬥ buttons. Then press the MENU (M) button.

2 **Press the MENU ▲▼ and MENU (M) buttons** to highlight and select (✔) English, Spanish (ESPAÑOL), or French (FRANCAIS) on the display control.

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

3 **Press the STATUS** button to clear the screen.

(STOP)
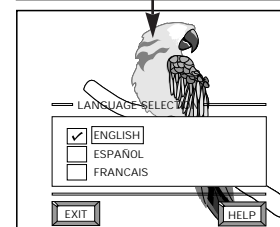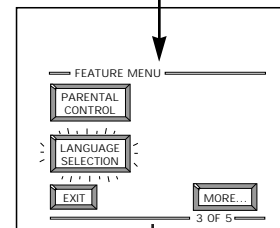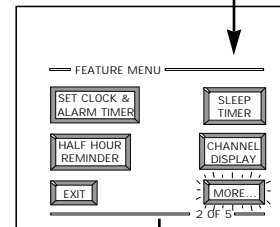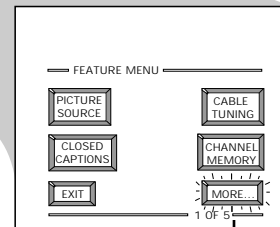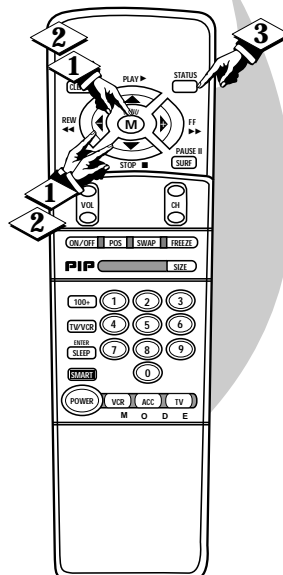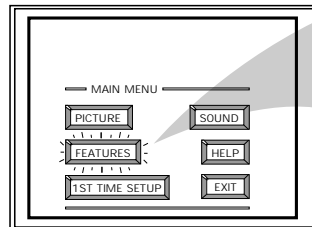
SMART HELP

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.

MAIN MENU

PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

FEATURE MENU

PICTURE SOURCE   CABLE TUNING
CLOSED CAPTIONS   CHANNEL MEMORY
EXIT   MORE...
1 OF 5

FEATURE MENU

SET CLOCK & ALARM TIMER   SLEEP TIMER
HALF HOUR REMINDER   CHANNEL DISPLAY
EXIT   MORE...
2 OF 5

FEATURE MENU

PARENTAL CONTROL
LANGUAGE SELECTION
EXIT   MORE...
3 OF 5

LANGUAGE SELECT

✔ ENGLISH
☐ ESPAÑOL
☐ FRANCAIS

EXIT   HELP

BASS, TREBLE, BALANCE

*Y*our *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)

1 **Select BASS, or TREBLE, or BALANCE** sound control.

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

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

3 **Press the STATUS** button to clear the screen.
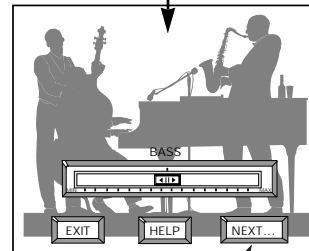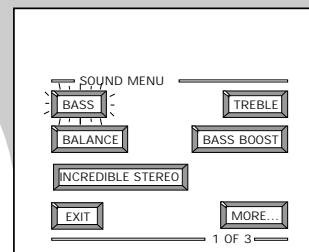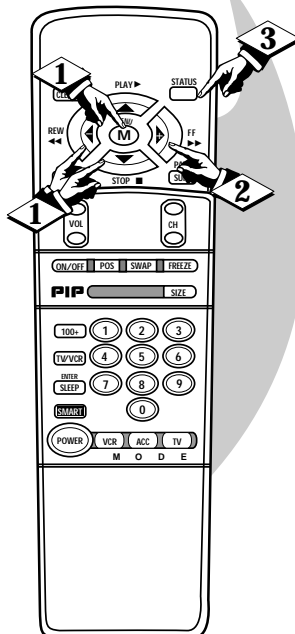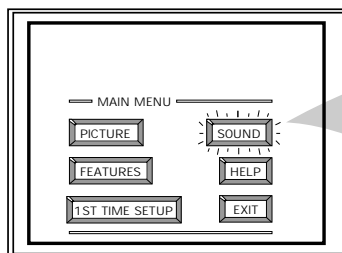
STOP

MAIN MENU

PICTURE SOUND
FEATURES HELP
1ST TIME SETUP EXIT

SOUND MENU

BASS TREBLE
BALANCE BASS BOOST
INCREDIBLE STEREO
EXIT MORE…
1 OF 3

BASS

EXIT HELP NEXT…

Select and then press MENU (M) button to view additional controls grouped under same feature heading. For Example: Treble, Balance, Bass Boost, Stereo, etc.

BASS BOOST

*T*he *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)

1 **Select BASS BOOST** sound control.

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

2 **Press the MENU ▲▼ and MENU (M) buttons** to highlight and turn ON (✔) the BASS BOOST control.

3 **Press the STATUS** button to clear the screen.

STOP

MAIN MENU

PICTURE SOUND
FEATURES HELP
1ST TIME SETUP EXIT

SOUND MENU

BASS TREBLE
BALANCE BASS BOOST
INCREDIBLE STEREO
EXIT MORE…
1 OF 3

BASS BOOST

✔ ON
☐ OFF

EXIT HELP NEXT…
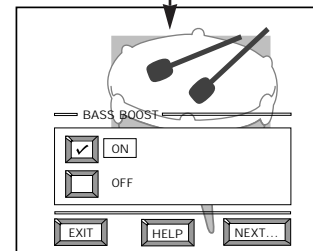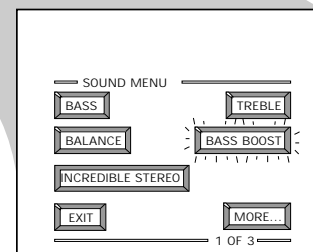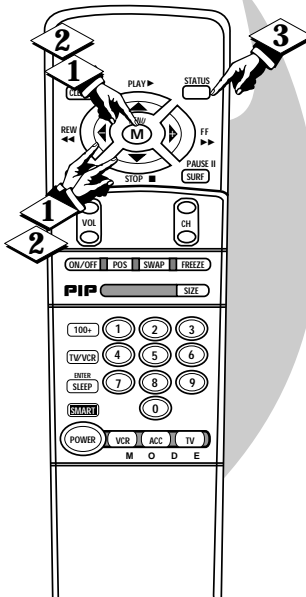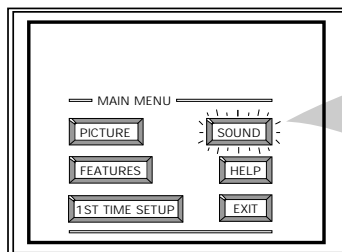
STEREO

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

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

(BEGIN)

1 **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.

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

3 **Press the STATUS** button to clear the screen.

STOP
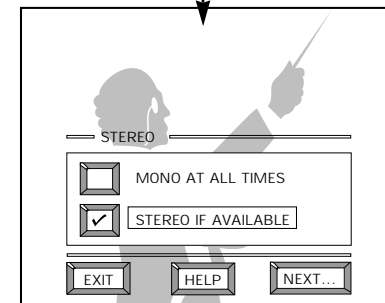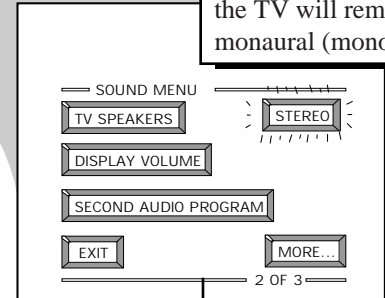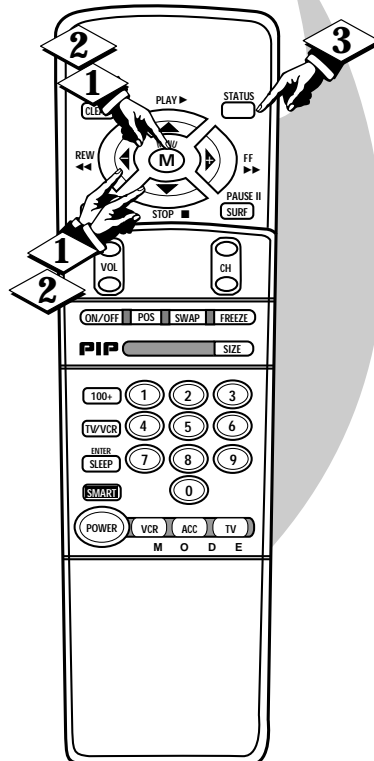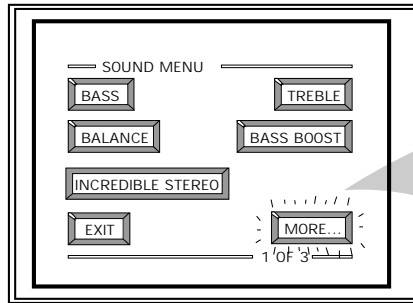
SMART HELP

Remember. If a stereo signal is not available and the TV is placed in the STEREO mode, sound coming from the TV will remain monaural (mono).

SOUND MENU
BASS   TREBLE
BALANCE   BASS BOOST
INCREDIBLE STEREO
EXIT   MORE…
1 OF 3

SOUND MENU
TV SPEAKERS   STEREO
DISPLAY VOLUME
SECOND AUDIO PROGRAM
EXIT   MORE…
2 OF 3

STEREO
☐ MONO AT ALL TIMES
✔ STEREO IF AVAILABLE
EXIT   HELP   NEXT…

PLAY ▶   STATUS
REW ◀◀   FF ▶▶
M
STOP ■   PAUSE II SURF
VOL   CH

ON/OFF POS SWAP FREEZE
PIP   SIZE

100+ 1 2 3
TV/VCR 4 5 6
ENTER/SLEEP 7 8 9
SMART 0
POWER VCR ACC TV
M O D E

SECOND AUDIO PROGRAM

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

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 MENU
TV SPEAKERS   STEREO
DISPLAY VOLUME
SECOND AUDIO PROGRAM
EXIT   MORE…
2 OF 3

SOUND MENU
BASS   TREBLE
BALANCE   BASS BOOST
INCREDIBLE STEREO
EXIT   MORE…
1 OF 3
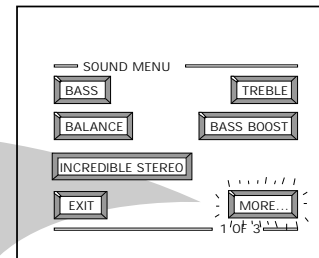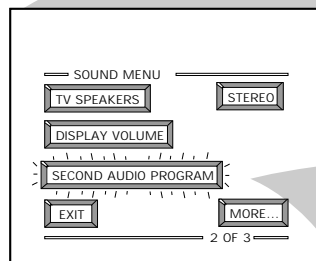
SECOND PROGRAM SOUND CAN ONLY BE SELECTED (✔) WHEN SAP INFORMATION IS PRESENT ON CURRENT CHANNEL.

SECOND AUDIO PROGRAM
☐ NORMAL SOUND
✔ SECOND PROGRAM SOUND
EXIT   HELP   NEXT…
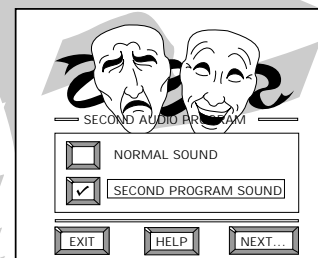
INCREDIBLE STEREO

*T*he Incredible Stereo control can be used to add greater depth and dimension to both monaural (MONO) and STEREO TV sound.   **BEGIN**

1 **Select INCREDIBLE STEREO** control.

With the SOUND MENU on the 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 INCREDI-BLE STEREO mode.

For Example: "MAXIMUM" spreads the Incredible Stereo effect as wide as possible.

3 **Press the STATUS** button to clear the screen.   **STOP**
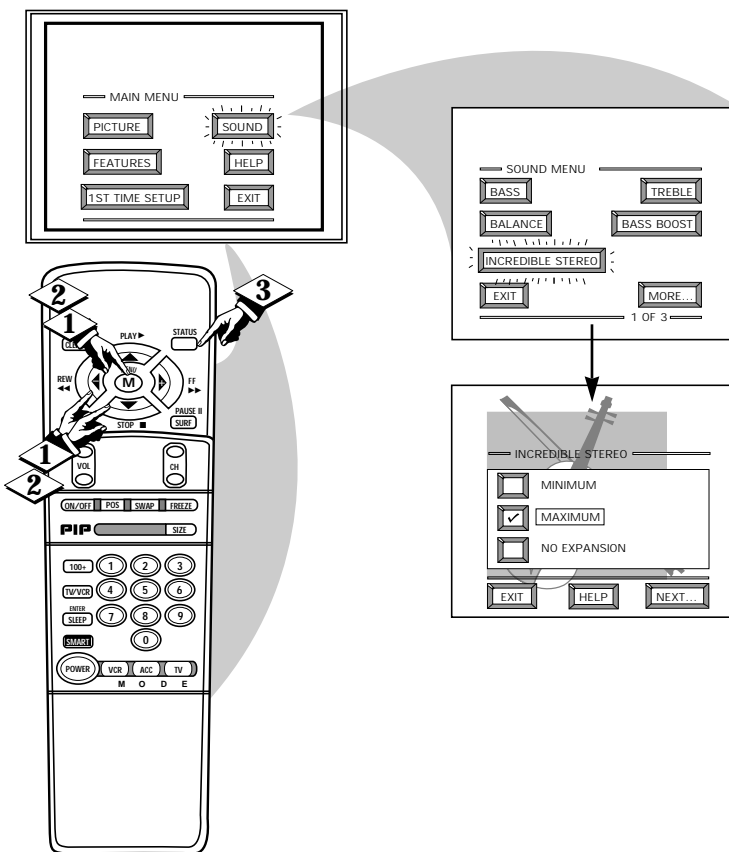
— MAIN MENU —
PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

— SOUND MENU —
BASS   TREBLE
BALANCE   BASS BOOST
INCREDIBLE STEREO
EXIT   MORE...
                  1 OF 3

— INCREDIBLE STEREO —
☐ MINIMUM
✔ MAXIMUM
☐ NO EXPANSION
EXIT   HELP   NEXT...

DISPLAY VOLUME

*U*se the DISPLAY VOLUME control to see the TV's volume level settings on the TV screen. Once set, the Volume Display will be seen each time the VOLUME buttons (on the TV or remote) are pressed.   **BEGIN**

1 **Select DISPLAY VOLUME** control.

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

— MAIN MENU —
PICTURE   SOUND
FEATURES   HELP
1ST TIME SETUP   EXIT

— SOUND MENU —
BASS   TREBLE
BALANCE   BASS BOOST
INCREDIBLE STEREO
EXIT   MORE...
                  1 of 3

— SOUND MENU —
TV SPEAKERS   STEREO
DISPLAY VOLUME
SECOND AUDIO PROGRAM
EXIT   MORE...
                  2 OF 3

— DISPLAY VOLUME —
☐ NEVER
✔ DURING ADJUSTMENT
EXIT   HELP
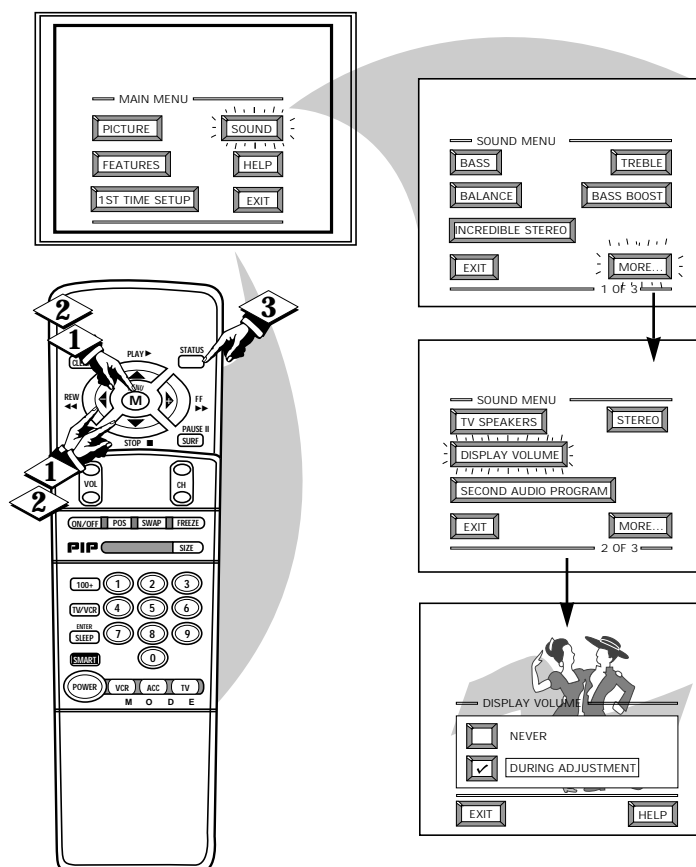
SMART HELP

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

BEGIN

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

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

2 **Turn the TV** and audio system ON. You can now adjust the sound level coming from the audio system with the Volume ▲▼ buttons on the TV or remote.

3 To hear the TV sound from only the audio system speakers, **select TV SPEAKERS** control.

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

4 **Press the MENU ▲▼ and MENU (M) buttons** to highlight and turn OFF (✔) the TV SPEAK-ERS control.

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

5 **Press the STATUS** button to clear the screen.

STOP

SOUND MENU
TV SPEAKERS   STEREO
DISPLAY VOLUM
SECOND AUDIO
EXIT

TV SPEAKERS
☐ NORMAL
☑ TV SPEAKERS OFF
EXIT   HELP

BACK OF TV

VARIABLE AUDIO OUTPUT JACKS

AUDIO IN (RED/WHITE)

R L
AUX/TV INPUT
PHONO INPUT
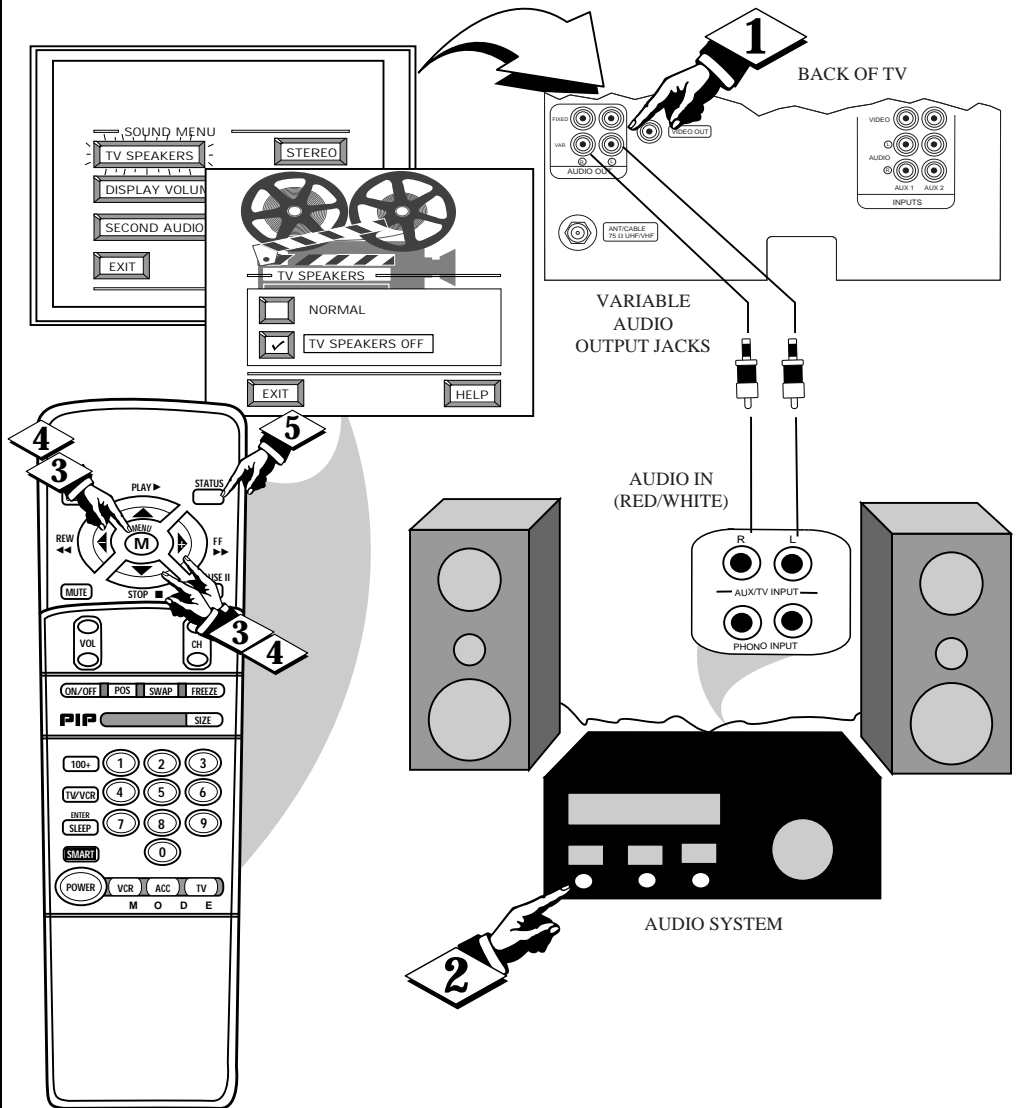
AUDIO SYSTEM

SMART HELP

Remember, the audio sys-tem 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.

FIXED
VAR
R L
AUDIO OUT
VIDEO OUT
ANT/CABLE
75 Ω UHF/VHF
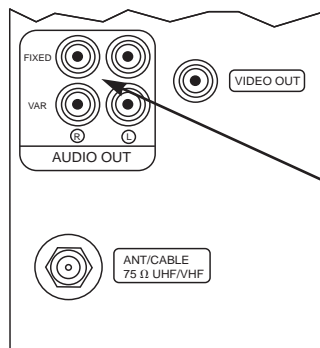
NOTE: The TV's FIXED AUDIO OUTPUT jacks can also be used for the playback of TV program sound with an external audio amplifier, or home theater hi-fi system. Connection of the FIXED AUDIO OUT(puts) is similar to the Variable Audio Outputs (as shown above). However, specific sound level adjust-ments will be made with the controls at the external ampli-fier or home sound system (instead of through the TV's audio level controls.)

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)

1 **Connect both external speakers** to the speaker wire terminals on the TV.

Recommended speakers: 8ohm, 15 watt minimum. Be sure the (+) and (-) speaker wires are connected to the correct R(ight) and L(eft) speaker terminals on the TV.

2 **Place the speakers** so the viewing area is between the TV and the rear surround speakers. (See overhead view drawing.)

3 **Turn TV ON** and place the STEREO control to the "STEREO IF AVAILABLE" (✔) position.

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

STOP

SMART HELP

Remember, Surround Sound will not work with only one speaker connected; or with monaural audio material (unless Variable Audio Surround control is turned ON - see section below).

BACK OF TV

REAR SURROUND SOUND SPEAKER TERMINALS

REAR SURROUND SPEAKERS

REAR SURROUND SOUND SPEAKERS

Note: The rear Surround Sound speakers will not be heard at the same volume level as the front TV speakers. It is intended for the rear speakers to give a background noise effect which requires a lower volume level than the TV's front speakers.

TV

REAR SPEAKER   REAR SPEAKER

PRIMARY VIEWING AREA

VARIABLE AUDIO OUTPUT

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

(BEGIN)

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

2 **Turn TV ON** and place the VARIABLE AUDIO OUTPUT on screen control to the SURROUND (✔) position. (Select the Main Menu Sound option, screen 3 of 3).

STOP

SOUND MENU
VARIABLE AUDIO OUTPUT
EXIT

VARIABLE AUDIO OUTPUT
STEREO
SURROUND
HELP

BACK OF TV

VARIABLE AUDIO OUTPUT JACKS

AUDIO INPUT JACKS

AUX/TV INPUT
PHONO INPUT
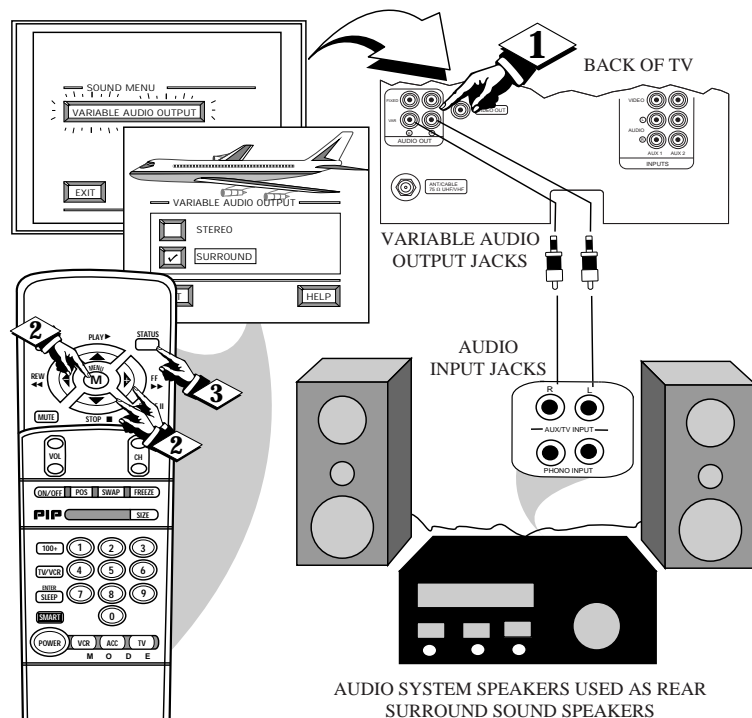
AUDIO SYSTEM SPEAKERS USED AS REAR SURROUND SOUND SPEAKERS

AUX 1 VIDEO INPUTS

*T*he 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

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

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

3 S**elect the "AUX 1 VIDEO" 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.

4 **Press the MENU ▲▼ and MENU (M) buttons** to highlight and select (✔) the AUX 1 VIDEO mode.

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

STOP

NOTE: Connections and use of the TV's rear AUX 2 VIDEO Input jacks are the same as for the AUX 1 jacks (except "AUX 2" is selected as the Picture Source in step 3).

PICTURE AND SOUND FROM PLAYBACK OF VCR TAPE

BACK OF TV

FEATURE MENU

PICTURE SOURCE

CLOSED CAPTIONS

EXIT

PICTURE SOURCE SELECT

ANTENNA
✓ AUX 1 VIDEO
AUX 1 Y Pв Pʀ
AUX 2 VIDEO

EXIT   HELP

VIDEO IN (YELLOW)

AUDIO IN (RED/WHITE)

AUDIO/VIDEO OUTPUT JACKS ON VCR

VCR

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 (1-800-851-8885) to order any optional accessories.

SMART HELP

Remember, after it is connected an easy way to select the AUX 1 VIDEO mode is to press the TV/VCR button on the remote. AUX 2 VIDEO; AUX 1 Y Pв Pʀ; and the last channel viewed can also be selected in this way.

Also, if you have added AUX 1 VIDEO to the TV's channel memory (see page 13), you can just press the CHANNEL ▲▼ buttons to select the AUX 1 mode.
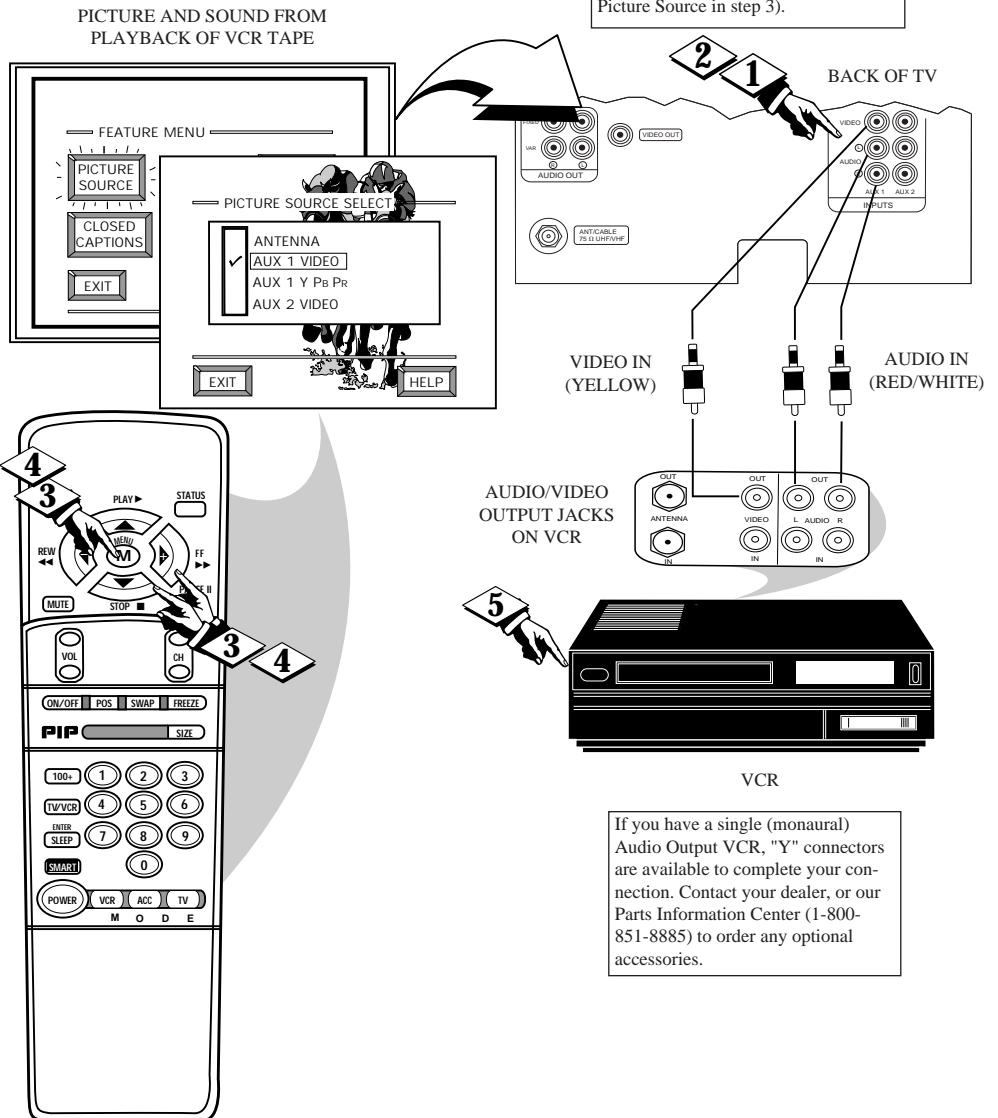
AUX1 - S-VIDEO INPUTS

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)

1 Connect the S-VIDEO (S-VHS) OUT jack from the VCR to the S-VIDEO AUX 1 IN(put) jack on the TV.
The S-VIDEO connecting cable will be supplied with the S-VHS VCR (or Video Disc Player).

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

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

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

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

4 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.

(STOP)

SMART HELP

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

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

NOTE: Connections and use of the TV's AUX 2 S-VIDEO Input jacks are the same as for the AUX 1 S-VIDEO jacks (except "AUX 2 S-VIDEO" is selected as the Picture Source in step 3).

PICTURE AND SOUND FROM PLAYBACK OF S-VHS VCR TAPE PLAYBACK

BACK OF TV

FEATURE MENU
PICTURE SOURCE
CLOSED CAPTIONS
EXIT

PICTURE SOURCE SELECT
ANTENNA
AUX 1 S-VIDEO
AUX 1 Y PB PR
AUX 2 VIDEO
EXIT   HELP

S-VIDEO CABLE
AUDIO OUT (RED/WHITE)

S-VIDEO OUT

S-VHS VCR
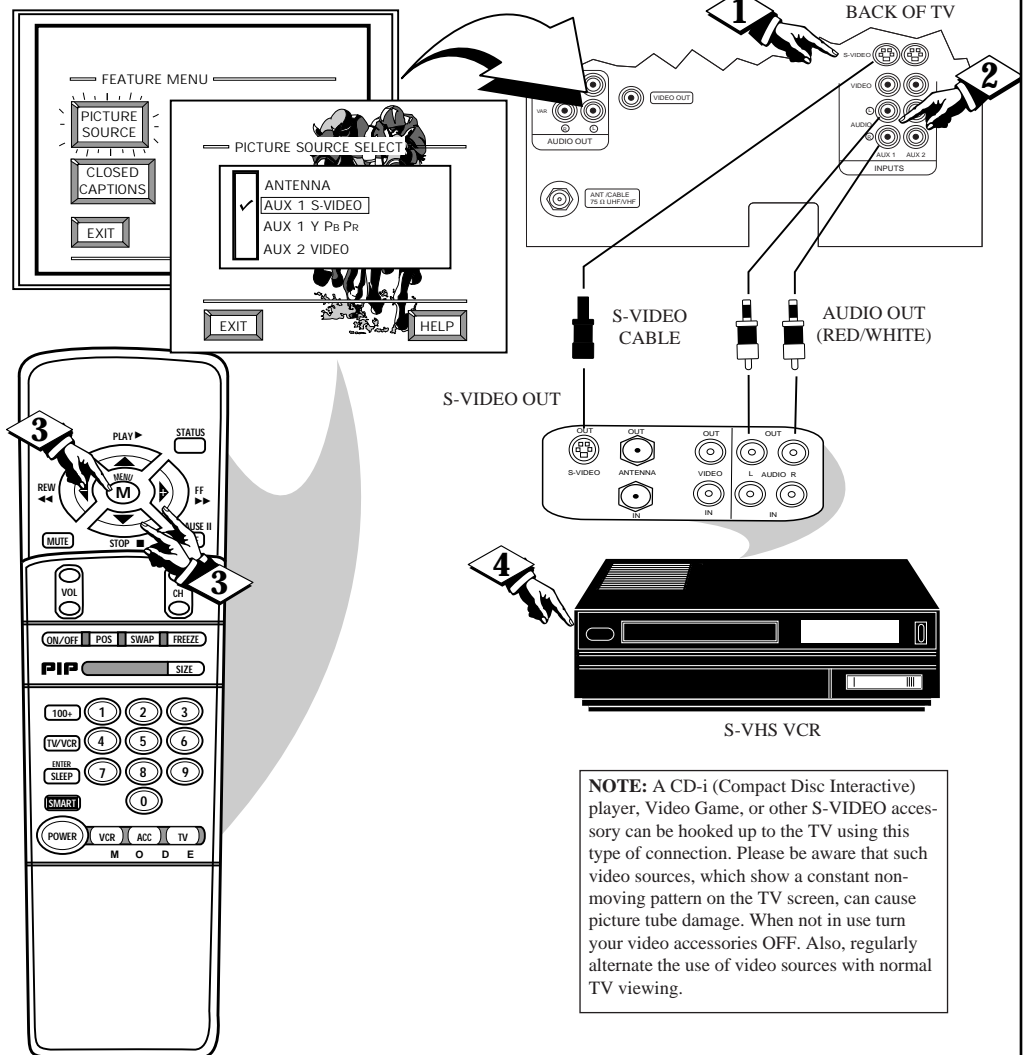
NOTE: A CD-i (Compact Disc Interactive) player, Video Game, or other S-VIDEO accessory can be hooked up to the TV using this type of connection. Please be aware that such video sources, which show a constant non-moving pattern on the TV screen, can cause picture tube damage. When not in use turn your video accessories OFF. Also, regularly alternate the use of video sources with normal TV viewing.

COMPONENT VIDEO INPUTS

Component Video Inputs pro-vide for the highest possible color and picture resolution in the playback of digital signal source material such as with DVD play-ers. The color difference signals (PB, PR) and the luminance (Y) sig-nal are connected and received separately which permits for improved color bandwidth infor-mation (not possible when using composite video or S-Video con-nections).

BEGIN

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

2 **Connect the AUDIO OUT** jacks R(ight) and L(eft) from the DVD player to the AUX 1 AUDIO IN jacks on the TV.

3 S**elect the "AUX 1 Y PB PR" 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.

4 **Press the MENU ▲▼ and MENU (M) buttons** to highlight and select (✔) the AUX 1 Y PB PR mode.

5 **Turn the DVD player ON** and press PLAY to view the source material playback on the TV.

STOP

PICTURE AND SOUND FROM PLAYBACK
OF DVD SOURCE MATERIAL

BACK OF TV

FEATURE MENU

PICTURE SOURCE

CLOSED CAPTIONS

EXIT

PICTURE SOURCE SELECT

ANTENNA
AUX 1 VIDEO
✓ AUX 1 Y PB PR
AUX 2 VIDEO

HELP
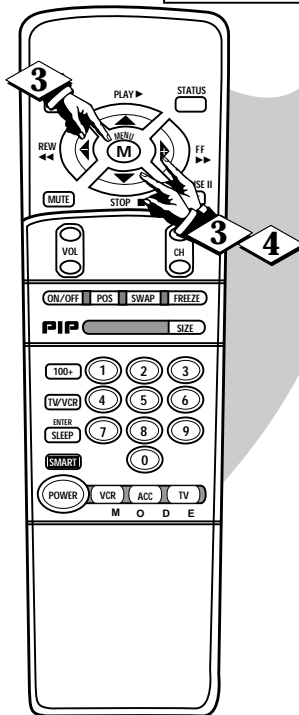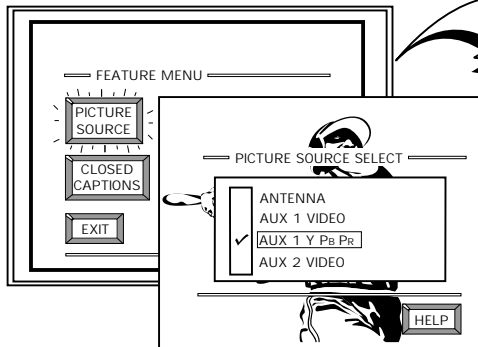
AUDIO OUT (L/R)
(RED/WHITE)
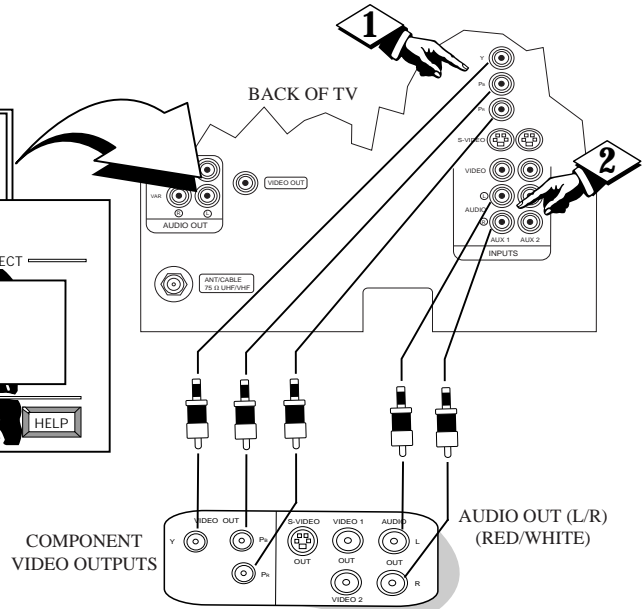
COMPONENT
VIDEO OUTPUTS
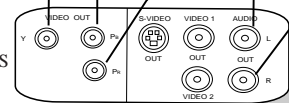
DVD PLAYER
(equipped with Component Color
& Luminance Outputs)

Optional Video/Audio Cables (with standard RCA plug connectors) are available to com-plete your Component Input Jack connec-tions. Contact your dealer, or our Parts Information Center (1-800-851-8885) to order any optional accessories.

SMART HELP

The description for the com-ponent video connectors may differ depending on the DVD player or accessory digital source equipment used (e.g. Y PB PR; R-Y/B-Y/Y; Cr/Cb/Y, etc.). Although abbreviations and terms may vary, the letters "B" and "R" stand for the blue and red color component signal connectors and "Y" indicates the luminance signal. Refer to your DVD or digital accessory Owner's Manual for definitions and connection details.

USING THE AUDIO/VIDEO OUTPUT JACKS

AUDIO/VIDEO OUTPUTS

*T*he 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)

1 **Connect the VIDEO OUT** jack from the TV to the VIDEO IN jack on the VCR.

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

3 S**elect the "ANTENNA" PIC-TURE SOURCE** control on the TV.

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

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

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

(STOP)

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.

PICTURE AND SOUND BEING RECORDED ON VCR.

FEATURE MENU

PICTURE SOURCE SELECT

✓ ANTENNA
AUX 1 VIDEO
AUX 1 Y PB PR
AUX 2 VIDEO

BACK OF TV

VIDEO OUT (YELLOW)

AUDIO OUT (RED/WHITE)

AUDIO/VIDEO INPUT JACKS ON VCR

VCR
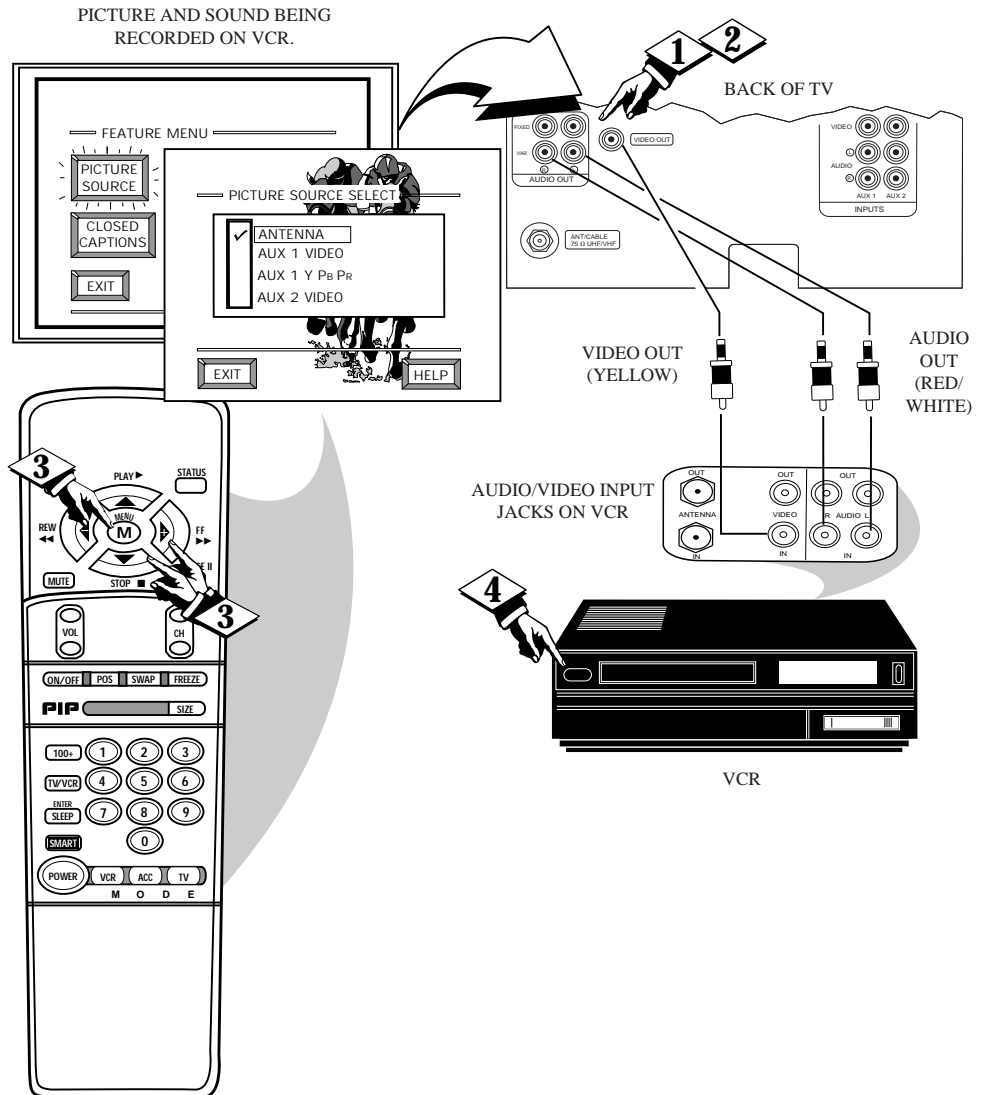
SMART PICTURE

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)

1 **Press the Smart button** on the remote.

2 **Press the Menu (M)** button to select the Smart Picture feature (highlighted in red).

3 **Press the Menu (M) ▲ or ▼** buttons to choose any of the preset viewing categories (Example: Sports, Movies, etc.). Then press the Menu (M) button to select the highlighted control.

4 **Press STATUS button** on the remote control to clear the screen.

STOP

SMART HELP

Remember, with the 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.

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.

SMART SOUND

Are you tired of the sound of commercials following you throughout 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 commercials.

(BEGIN)

1 **Press the Smart button** on the remote.

2 **With the SMART Menu** on screen, move the RED highlight with the Menu ▼ buttons. Then press the MENU (M) button to select the highlighted Smart Sound control.

3 **Press the Menu ▲ or ▼** and then the Menu (M) button to turn the Smart Sound control ON (or OFF.)

4 **Press the STATUS** button to clear the screen when completed.

STOP

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

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)

1 **Press the Smart button** on the remote.

2 **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.)

4 **Press STATUS button** on the remote control to clear the screen.

(STOP)

HOW TO USE SMART SURF

(BEGIN)

1 **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).

2 **Press the SURF** button on the remote. (Some channel numbers may already appear within the Surf channel list.)

3 **Press the Menu** button to "ADD" the selected channel to the Surf list.

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

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

(STOP)

2 CHANNEL SURF- Current and one previous channel in the ring.

SMART SURF - Current and up to nine additional channels available in the ring. Note: The Channel Surf ring can be used with fewer than ten channels. In this way, the number of Surf channels can match or fit your present viewing interests.
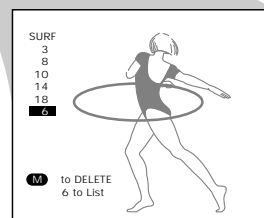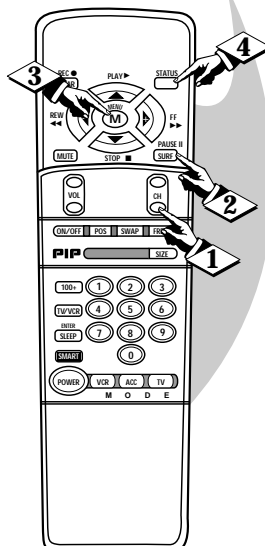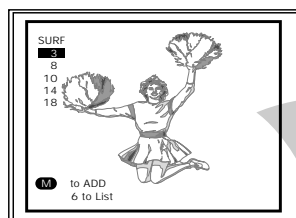
Note: To Delete a channel from the Surf list just press the SURF button to select the desired channel. Then press the Menu button and the channel will be immediately dropped from the on screen Surf list.
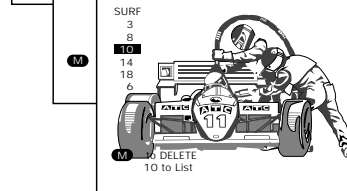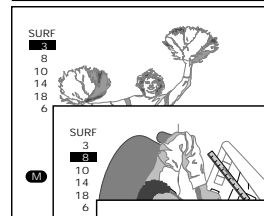
*Y*our remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable TV Converter Boxes, DVD players, Home Satellite receivers, etc. However, an easy one-time step may be necessary before the remote will work with your accessory device.

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

(BEGIN)

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

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

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

3 **Does the remote turn the accessory device ON?**
IF YES, ⬛ and try other function buttons on the TV remote. If they also work the accessory device, then the remote is ready and no further steps are needed.

If NO, continue...

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

Find your Three Digit Code Number on pages 37-38.

TV REMOTE
VCR/ACCESSORY
SYSTEM BUTTONS

ENTER
SLEEP   7   8   9

SMART   0

POWER   VCR   ACC   TV

VCR

SATELLITE RECEIVER

CABLE CONVERTER

PIP

SMART HELP

Remember, if more than one number is listed, you may have to try more than the first three-digit code given in order to locate your device's correct code.
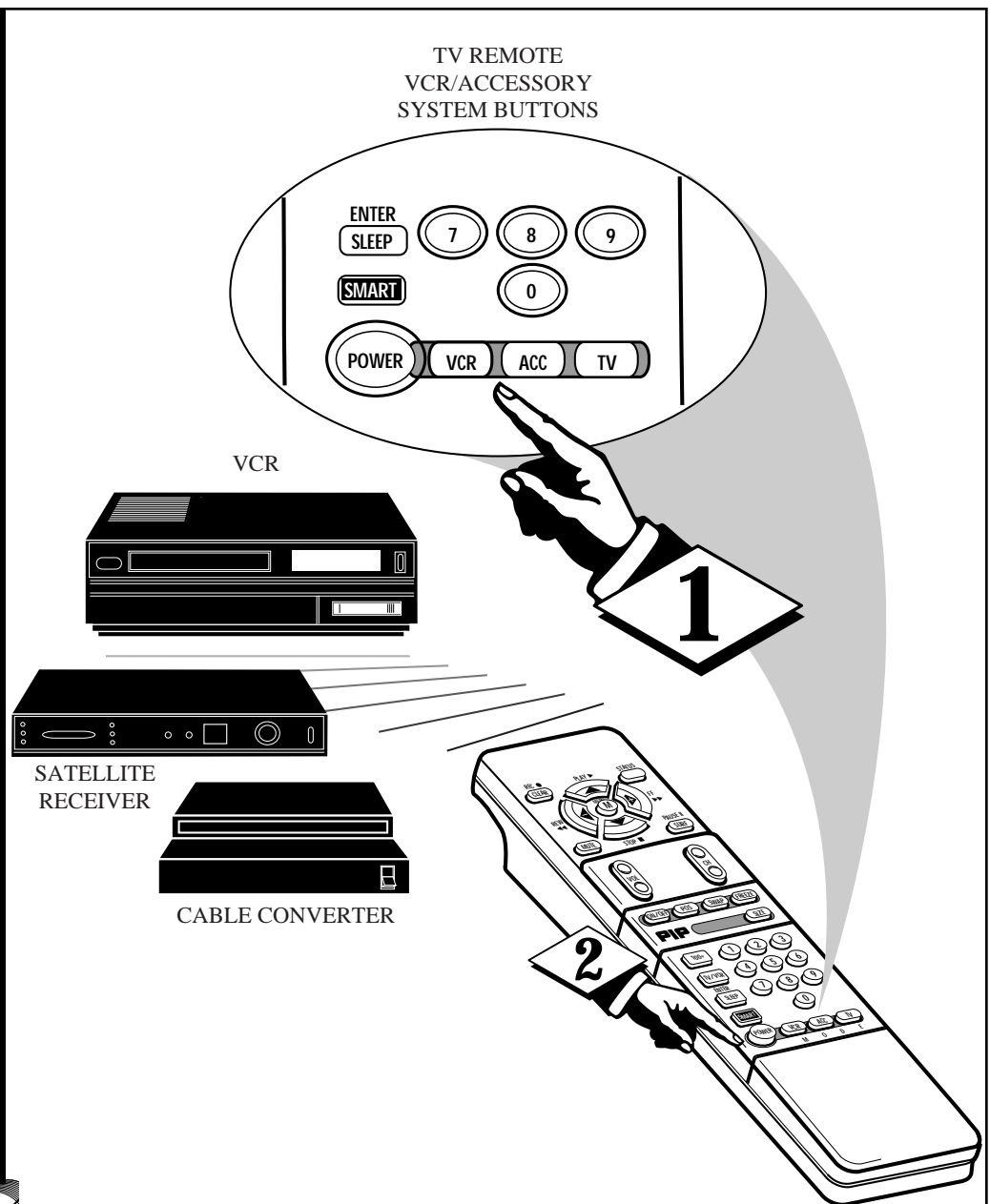
DIRECT ACCESS METHOD

Now that you have looked up the three-digit Remote Code Number for your brand of accessory device (see page 37-38), you are ready to follow the simple steps shown below.

Please read through all the steps before beginning.

BEGIN

1 **Press and release the REC** (RECORD) button.

2 Within **three seconds** after releasing the REC button, **press and release the correct VCR or ACC(essory) System** button.

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

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

STOP

SATELLITE RECEIVER

CABLE TV CONVERTER

DVD

VCR

SMART HELP

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

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

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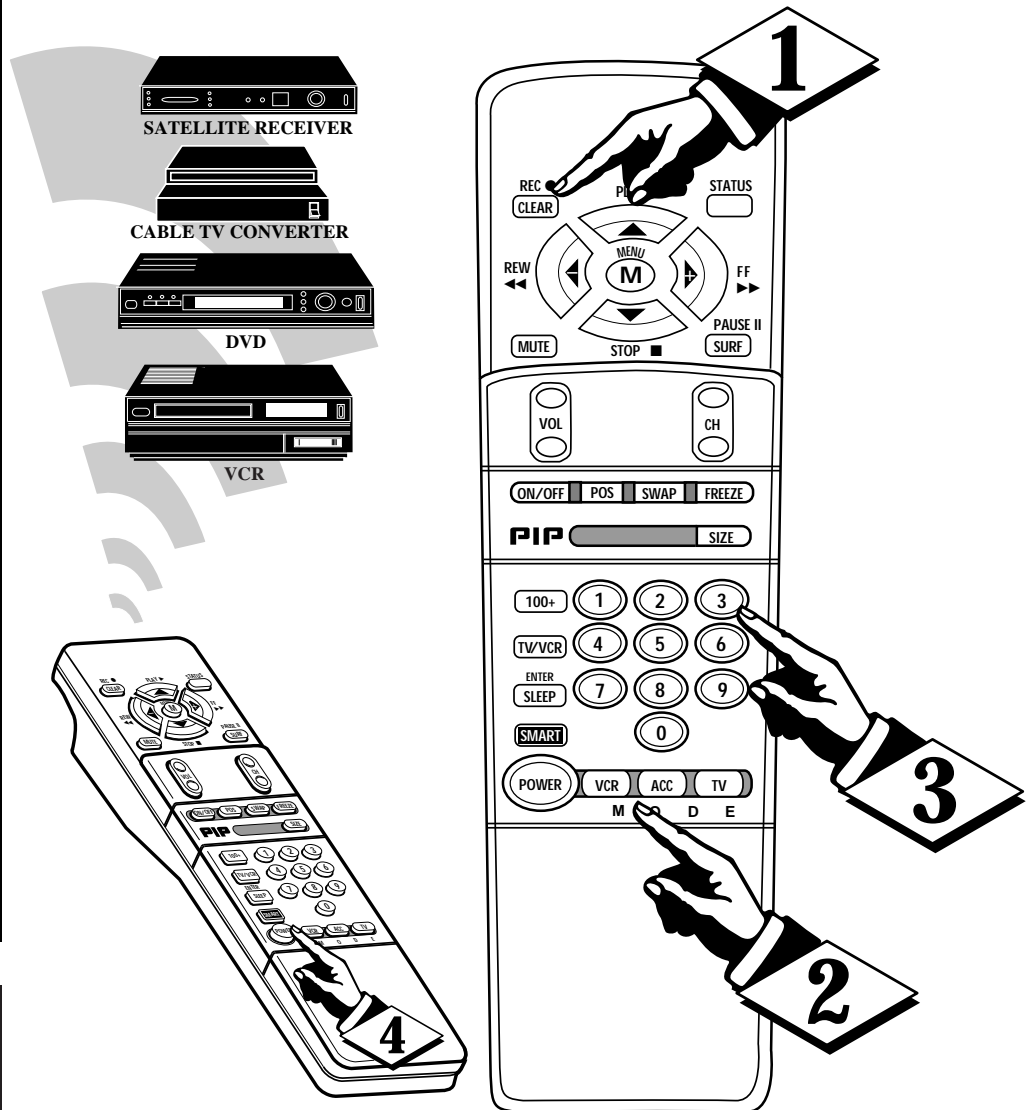
SEARCH METHOD

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

BEGIN

1 **Turn ON the desired device. Press the correct VCR or ACC** system button on the remote.

2 Stand at least six feet away from the front of the accessory device. **Point the remote** toward the unit. **HOLD DOWN** the **SURF** and **the desired System (VCR or ACC)** buttons at the same time. KEEP HOLDING BUTTONS DOWN.

3 **Watch the Channel Indicator** on the unit. Channel Numbers will SCAN UP when the unit has been identified. This may take up to two minutes.

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

STOP

SMART HELP

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

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

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

SATELLITE RECEIVER

CABLE TV CONVERTER

VCR

Don't let the Accessory Device scan up more than five channels (in Search mode).

Six Feet
(minimum)
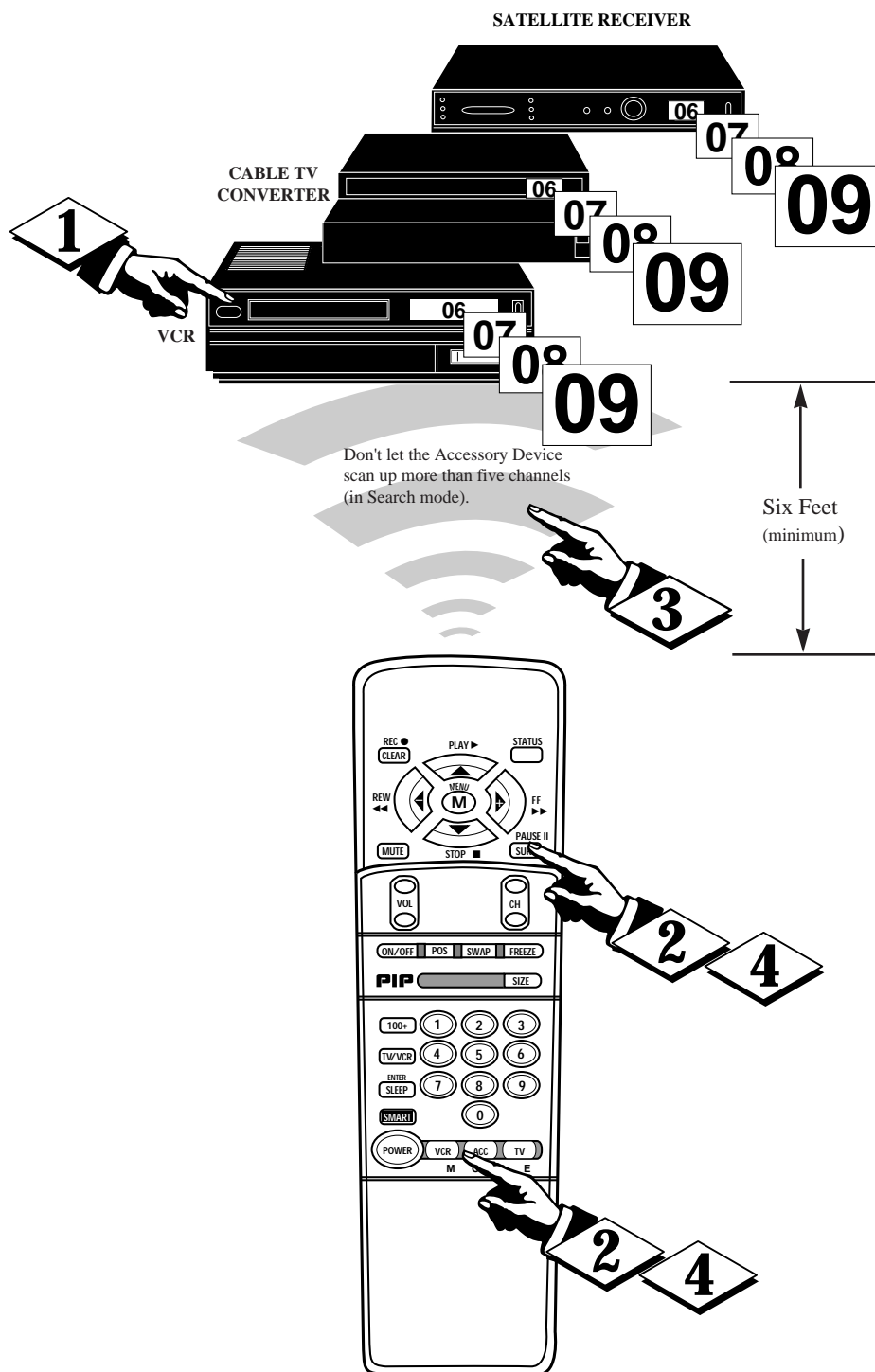
VCR BRAND	REMOTE CODE NO.
Action	317
Admiral	048
Advantz	356
Adventura	000
Aiko	278
Aiwa	406, 307, 468, 000, 037
Akai	106, 053, 041, 049, 061, 156, 242, 315
American High	035
Asha	240
Audiovox	037
Beaumark	240
Bell & Howell	104
Broksonic	121, 184, 002, 209, 211, 295, 361, 479
CCE	072, 278
Calix	037
Canon	167, 035
Capehart	020, 554
Carver	081
Cineral	278
Citizen	278, 037
Colt	072
Craig	037, 072, 047, 240, 271
Curtis Mathes	035, 041, 060, 162
Cybernex	051, 240
Daewoo	278, 561, 020, 554, 017, 045, 087
Daytron	020, 554
Denon	042
Dynatech	000
Electrohome	037
Electrophonic	037
Emerex	032
Emerson	184, 002, 209, 278, 036, 121, 211, 208, 294, 479, 561, 061, 088, 212, 000, 037, 043, 068, 295, 361, 510
Fisher	047, 104, 054, 066
Fuji	033, 035
Fujitsu	000
Funai	000
GE	035, 060, 048, 065, 202, 240
Garrard	000
Go Video	279, 432, 526, 350, 232
GoldStar	037, 018, 038, 471, 480
Gradiente	008, 000, 408
Grundig	195
HI-Q	047
Harley Davidson	000
Harman/Kardon	038, 075, 081
Harwood	068, 072
Headquarter	046
Hitachi	042, 166, 105, 065, 292, 000, 041, 082, 235
JVC	067, 008, 206, 207, 041, 384
Jensen	041

VCR BRAND	REMOTE CODE NO.
KEC	037, 278
KLH	072
Kenwood	041, 067, 384, 038
Kodak	035, 037
LXI	037
Lloyd's	000, 208
Logik	072
MEI	035
MGA	043, 061, 240
MGN Technology	240
MTC	000, 240
Magnasonic	278
Magnavox	035, 081, 000, 039, 149
Magnin	240
Marantz	081, 035
Marta	037
Matsushita	035, 162
Memorex	104, 047, 000, 037, 048, 035, 046, 240, 307, 039, 162, 299
Minolta	105, 042
Mitsubishi	043, 173, 061, 075, 214, 242, 048, 067, 443
Motorola	035, 048
Multitech	000, 072
NAD	058, 104
NEC	038, 040, 041, 050, 067, 082, 104
Nikko	037
Nikon	034, 253
Noblex	240
Olympus	035, 226
Optimus	048, 058, 037, 104, 162, 432
Optonica	062
Orion	479, 002, 184, 295
Panasonic	035, 226, 077, 162, 378, 225, 227, 246
Penney	035, 240, 037, 042, 038, 040, 054
Pentax	042, 065, 105
Philco	035, 209, 479
Philips	081, 035, 062, 403
Pilot	037
Pioneer	058, 168, 067
Portland	020, 554
Profitronic	240
Proscan	060, 202
Protec	072
Pulsar	039, 051
Quarter	046
Quartz	046, 155
Quasar	035, 162, 077
RCA	060, 149, 202, 042, 105, 035, 048, 065, 077, 106, 240, 277
Radio Shack	000
Radix	037
Randex	037

VCR BRAND	REMOTE CODE NO.
Realistic	000, 104, 047, 048, 037, 035, 062, 046, 066
Ricoh	034, 253
Runco	039
STS	042
Salora	075
Samsung	045, 051, 053, 240
Sanky	039, 048
Sansui	041, 479, 000, 067, 082, 271
Sanyo	047, 046, 104, 240
Scott	184, 211, 121, 043, 045, 210, 212
Sears	054, 105, 037, 042, 000, 035, 046, 047, 057, 066, 104
Semp	045
Sharp	048, 062
Shintom	072
Shogun	051, 240
Singer	072
Sony	033, 034, 032, 253, 000, 011, 035
Sunpak	253
Sylvania	035, 081, 000, 043
Symphonic	000
TMK	036, 208, 240
Tandy	000, 104
Tatung	041
Teac	000, 041
Technics	035, 162, 246
Teknika	000, 035, 037, 052
Thomas	000
Toshiba	045, 057, 210, 212, 043, 066, 366
Totevision	037, 240
Unitech	240
Vector	045
Vector Research	038, 040
Video Concepts	040, 045, 061, 221
Videosonic	240
Wards	035, 060, 062, 000, 047, 212, 240, 042, 048, 072, 081, 149
White Westinghouse	278
XR-1000	072, 000, 035
Yamaha	038
Zenith	039, 000, 033, 034

CABLE CONVERTER REMOTE CODE NO.

ABC 003, 001, 007, 008, 011, 013,
. . . . .014, 017, 047, 206
ABC Cable .033
Allegro 153, 315
Antronix 022, 207
Archer 022, 039, 153, 207, 797
BBT 267
Belcor 056
Bell & Howell 014
Cable Star 056
Cabletenna 022
Cableview 022
Century .153
Citizen 153, 315
Colour Voice 025, 031
Comband 232, 233
Comtec 274
Comtronics 040, 060
Contec 019
Digi 637
Eastern 002, 274
Electricord 078
Emerson .797
Everquest 015, 040
Focus 400
GC Electronics 056, 207
GE 232, 233
GMI 057
Garrard 153
Gemini 015, 057, 070, 242
General Instrument .276, 476, 011, 810
GoldStar 040, 144
Goodmind 797
Hamlin . . .020, 009, 259, 034, 206, 273
Hitachi 011
Hytex 007
Jasco 015, 153, 315
Jerrold 003, 012, 276, 014, 011,
. . . . .024, 476, 015, 047, 098, 810
Linsay 440
Macom 033
Magnavox 027, 334
Memorex .000
Movie Time 063, 078, 156, 203
NSC 156, 063, 070, 203
Northcoast 314
Novaplex .618
Oak 019, 007, 248
Optimus .021
Panasonic 021, 107, 000
Panther 637
Paragon .000
Philips 025, 030, 031, 242, 290,
. . . . .027, 028, 029, 153, 334, 652
Pioneer 44, 023, 260, 533
Popular Mechanics 400

CABLE CONVERTER REMOTE CODE NO.

Prelude 770
Pulsar 000
Quasar 000
RCA 021
RK 304
Radio Shack 015, 315, 797, 883
Realistic .207
Recoton .400
Regal 273, 279, 020, 259
Regency .002
Rembrandt 011, 070
Runco 000
SL Marx .040
Samsung 040, 144
Scientific Atlanta . . .008, 017, 006, 477
Seam 510
Signal 015, 040
Signature 011
Sprucer 307, 021
Standard Components 096
StarSight 542, 422
Starcom 003, 015, 047, 098
Stargate 040, 015, 770, 797
Starquest .015
Sylvania .001
TFC 310
TV86 063
Tandy 258
Tatung 097
Teknika .146
TeleCaption 221
Teleview .040
Texscan 096, 001
Timeless 274, 418
Tocom 012, 013, 059
Toshiba 000
Tusa 015
Uniden 225
Unika 153, 207, 022
United Artists 007
Universal 207, 022, 039, 056, 077,
. . . . .078, 153, 191, 322
Videoway 250
Vidtech 244
Viewstar 258, 027, 060, 063, 111,
. . . . .211, 289
Zenith 000, 525, 054
Zentek 400

SATELLITE RECEIVER REMOTE CODE NO.

AlphaStar .772
Echostar .775
Expressvu 775
General Instrument 361, 869, 627
HTS 775
Hitachi 819
Hughes Network Systems 749
JVC 775
Jerrold 361, 627
Magnavox 722, 724
Memorex .724
Next Level 869
Panasonic 701
Philips 200, 722, 724
Primestar 627, 361
RCA 566, 143, 855
Sony 639
Star Choice 869
Toshiba .790
Uniden 724, 722
Zenith 856

DVD BRAND REMOTE CODE NO.

Harman/Kardon 818
JVC 814
Kenwood .807
Magnavox 802
Mitsubishi 803
Onkyo 802
Panasonic 800, 801
Philips 802, 808
Pioneer 805, 815
Proscan .804
RCA 804
Samsung .816
Sony 806
Technics .800
Toshiba 802
Yamaha 800, 813
Zenith 822, 802

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 sections).

BEGIN

1 **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.

STOP

Record Button

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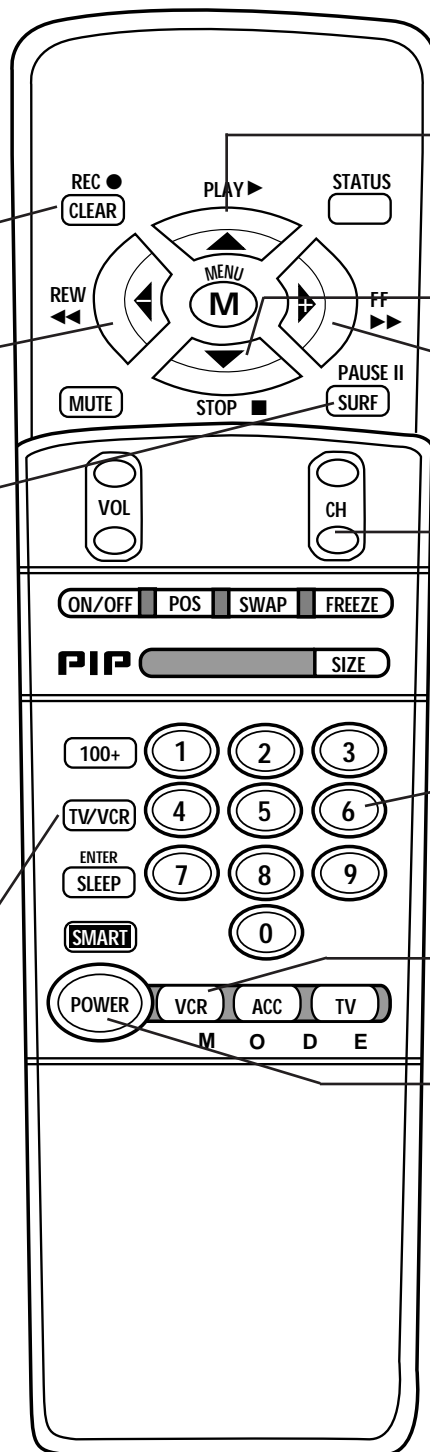
Rewind Button

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.

TV-VCR Button

Press to the VCR position ("VCR" indicator on the VCR will light) to view the playback of a tape. Press again to place in the TV position ("VCR" indicator on the VCR will go OFF) to view one program while recording another program.
When used with the TV the TV/VCR button works as a source button. Each press cycles the TV between the AUX(iliary) Input modes, Antenna input, and the the last view channel. It is a quick one-button way to select these channels and modes (without directly entering the TV's Menu system.)

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.

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).

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

BEGIN

1 **Connect the VIDEO OUT jack** on the VCR to the AUX 1 VIDEO IN jack (yellow) on the TV.

Also connect the AUDIO OUT (R and L) jacks from the VCR to the AUX 1 AUDIO IN jacks (red and white) on the TV.

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

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

MAIN SCREEN

PIP

BACK OF TV

VIDEO OUT

AUDIO OUT

AUX 1   AUX 2

INPUTS

VIDEO OUT
(YELLOW)

AUDIO OUT
(RED/WHITE)

ANT OUT

OUTDOOR UHF/VHF
ANTENNA

OUT

OUT

OUT

ANTENNA

VIDEO

L AUDIO R

IN

IN

OR

IN

ANT IN

CABLE TV
SIGNAL

VCR

SMART HELP

For other possible PIP connections see page 45 for the "More PIP Connections" section.

If you need any accessories or parts to complete the described PIP connections, contact your dealer, or our Parts Information Center at (1-800-851-8885) for details.
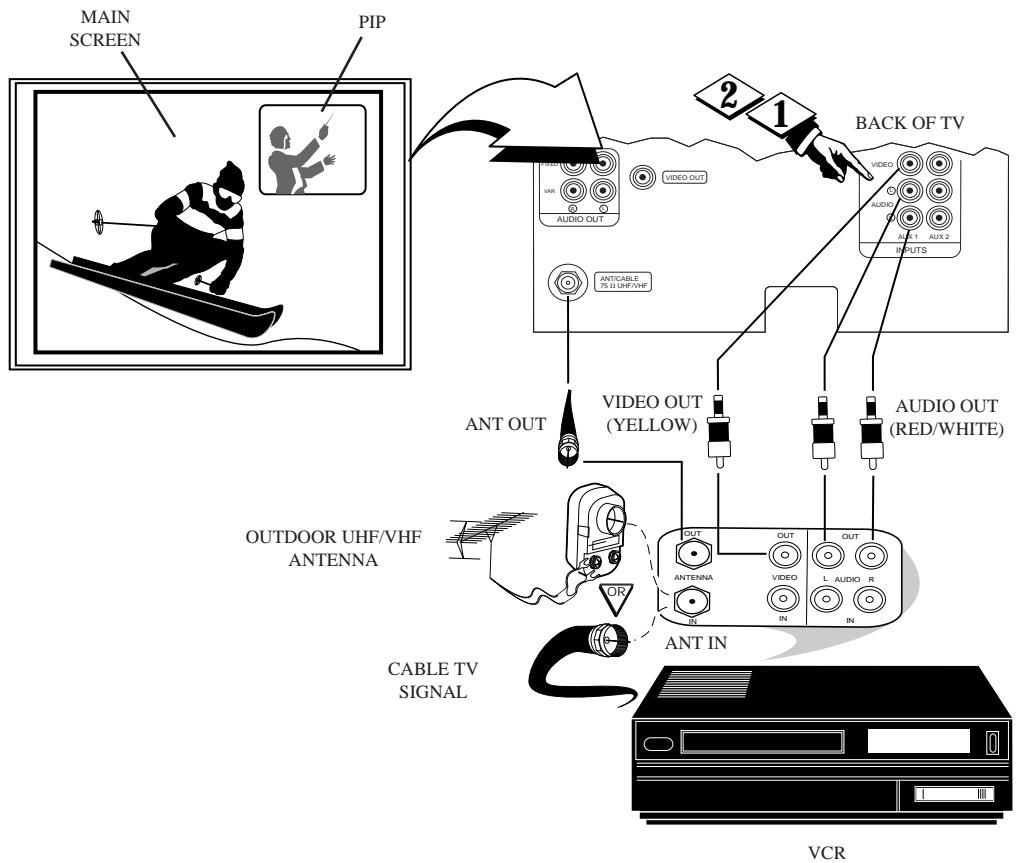
Now that you have completed the required connections on the previous page you are ready to follow the simple steps shown below.

3 **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 34.)

Set the TV's PIP SOURCE SELECT control to AUX1 VIDEO With FEATURES MENU (4 of 5) 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 "AUX 1 VIDEO" (✔) item.

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

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

5 **Press the PIP ON/OFF button** on the remote.

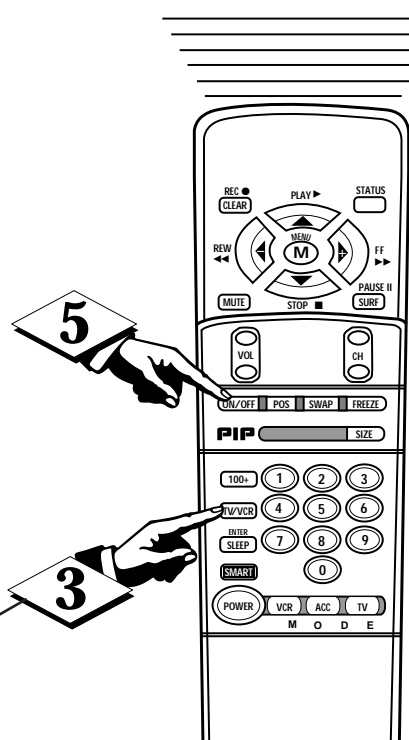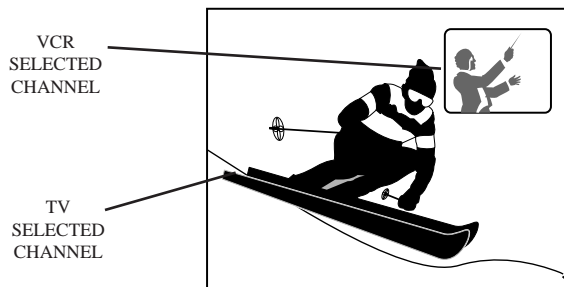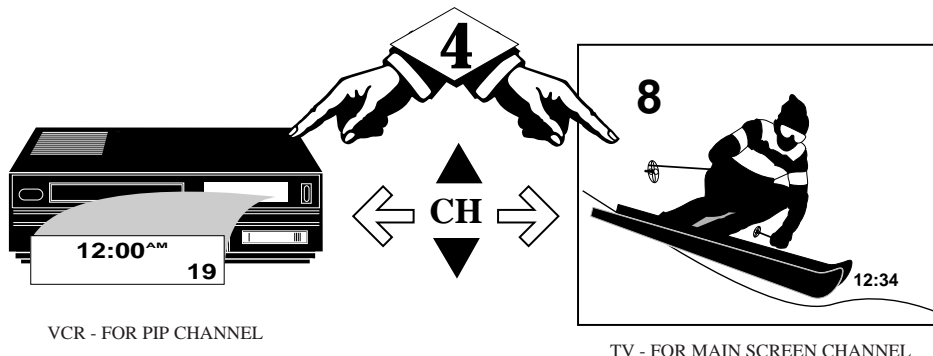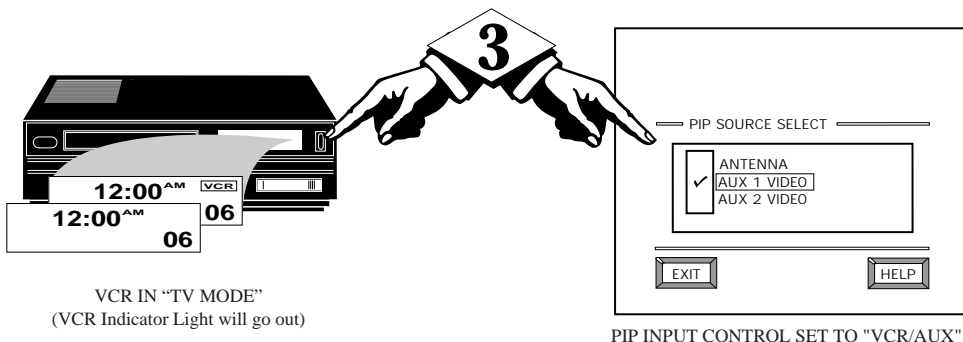The PIP window should show in one of the corners of the TV screen.

STOP

☀ **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 43) is set to "AUX 1 VIDEO".

No sound will be heard with the PIP picture. See the next page 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 controls.

3

12:00ᴬᴹ VCR
12:00ᴬᴹ 06
06

VCR IN "TV MODE"
(VCR Indicator Light will go out)

═ PIP SOURCE SELECT ═

ANTENNA
✔ AUX 1 VIDEO
AUX 2 VIDEO

EXIT   HELP

PIP INPUT CONTROL SET TO "VCR/AUX"

4

8

12:00ᴬᴹ
19

VCR - FOR PIP CHANNEL

CH

12:34

TV - FOR MAIN SCREEN CHANNEL

VCR SELECTED CHANNEL

TV SELECTED CHANNEL

REC ● CLEAR   PLAY ►   STATUS
REW ◄◄   MENU M   FF ►►
MUTE   STOP ■   PAUSE II SURF

5

VOL   CH

ON/OFF POS SWAP FREEZE

PIP   SIZE

100+ 1 2 3
TV/VCR 4 5 6
ENTER SLEEP 7 8 9
SMART 0
POWER VCR ACC TV
M O D E

3

Be sure to point the remote at the front of the VCR when pressing VCR function buttons.

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

(BEGIN)

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

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

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

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

3 With PIP on the TV screen, **press the SWAP button** to swap the main screen picture with the PIP picture. See "Smart Help" note on this page.

4 **Press FREEZE** to hold the current MAIN screen picture in the PIP window (Main picture is still active).

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

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

You cannot reposition a frozen PIP picture.

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

5 **Press the PIP SIZE button** to change the size of the PIP window shown on the TV screen.

Press the PIP SIZE button again to see and compare the large and small size PIP windows.

You cannot change the size of a frozen PIP picture.

STOP

1. PIP ON / OFF

2. PIP POSITION

3. PIP SWAP

4. PIP FREEZE

5. PIP SIZE (Large or Small)
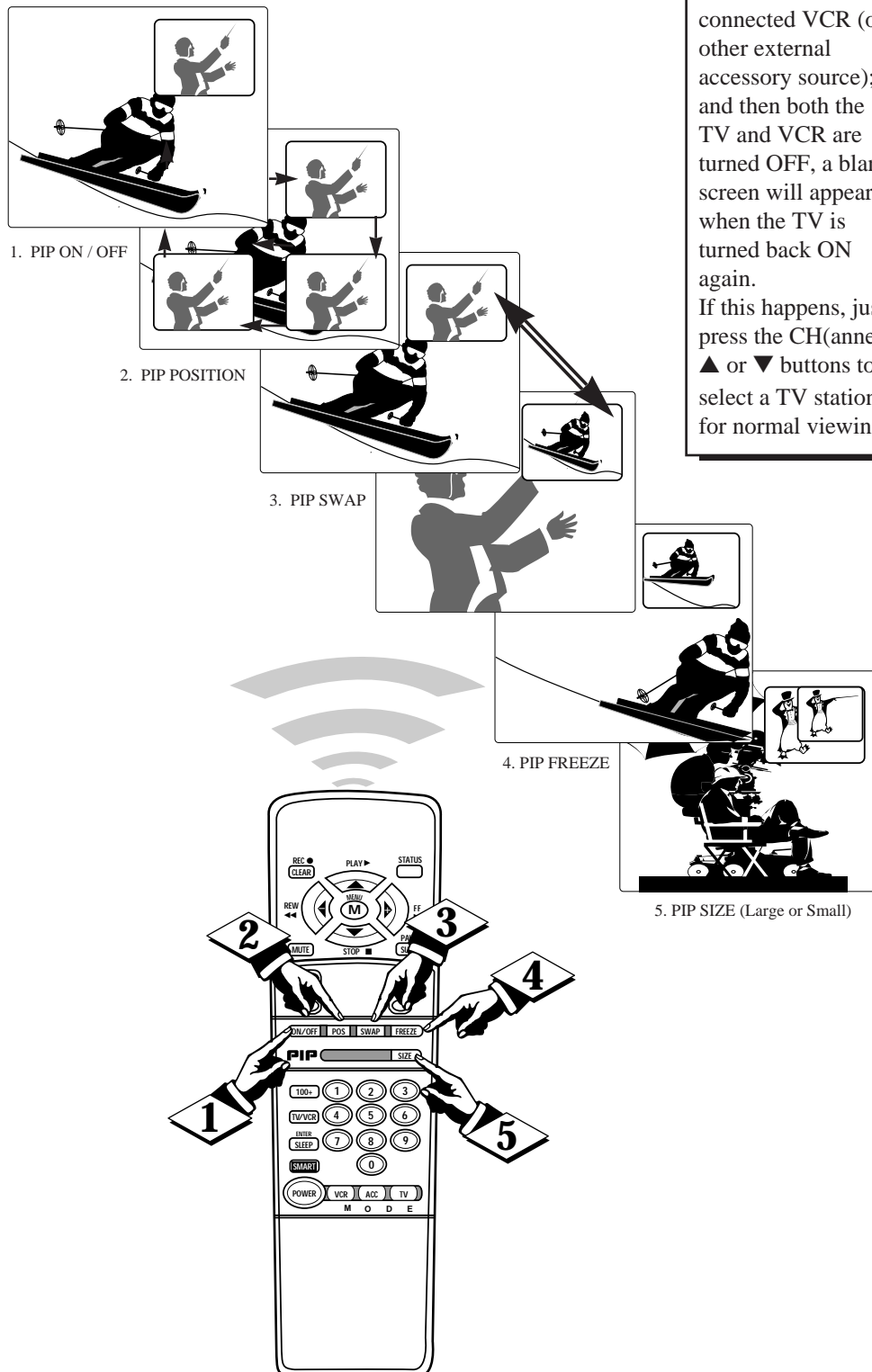
SMART HELP

Remember, if the TV's Main screen picture is being supplied by an AUX VIDEO connected VCR (or other external accessory source); and then both the TV and VCR are turned OFF, a blank screen will appear when the TV is turned back ON again.

If this happens, just press the CH(annel) ▲ or ▼ buttons to select a TV station for normal viewing.

PIP SOURCE

The picture for the PIP window can come through either the ANT/CABLE or AUX VIDEO 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)

1 **Select PIP SOURCE** control.

With FEATURES MENU (4 of 5) on screen, move the RED highlight with the MENU ◆ buttons. Then press the MENU (M) button.

2 **Press the MENU ▲▼ and MENU (M) buttons** to highlight and select the desired (✔) AUX VIDEO or ANTENNA item.

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

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

AUX 2 VIDEO- for a picture signal coming from the AUX 2 Video Input jack on the rear of the TV.
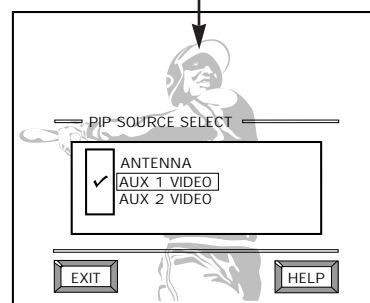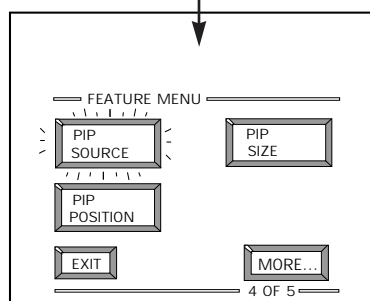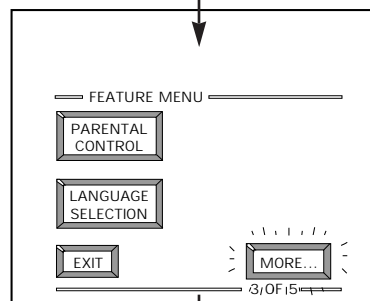
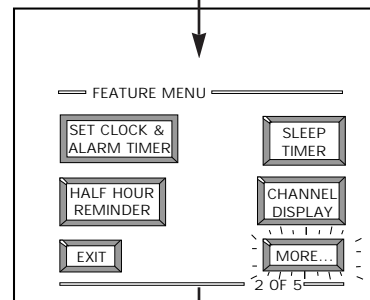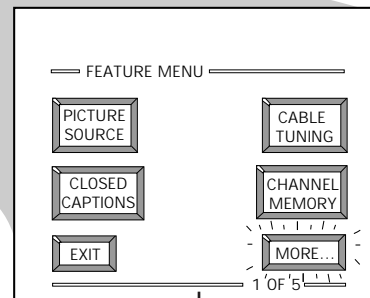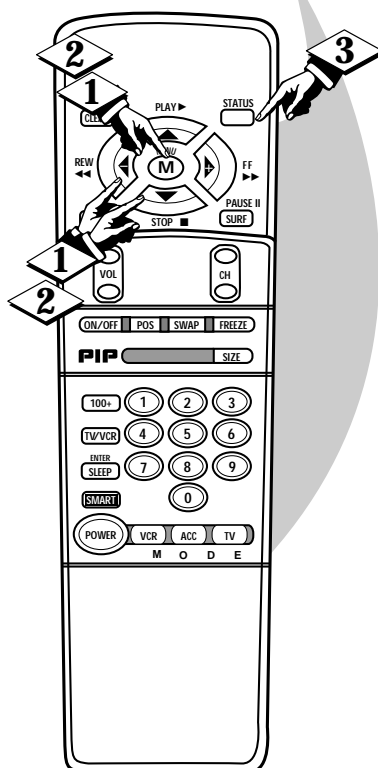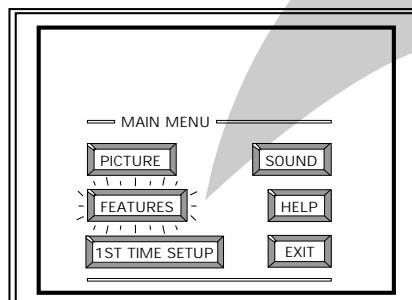**3** **Press the STATUS** button to clear the screen.

(STOP)

SMART HELP

Remember. The PIP screen will be blank unless a signal is connected to the selected source (either ANT/CABLE or AUX VIDEO Inputs) on the rear of the TV.

Note: The Component Video Inputs (AUX 1 Y PB PR) can not be selected as a source for PIP.

PIP COLOR / PIP TINT

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

BEGIN

1 **Select PIP COLOR (or PIP TINT)** control.

With PICTURE MENU (5 of 5) on screen, move the RED highlight with the MENU ⬩ buttons. Then press the MENU (M) button.

2 **Press the MENU ▲▼ buttons** to move the RED highlight. Press the MENU button to turn the PIP COLOR or TINT control ON.

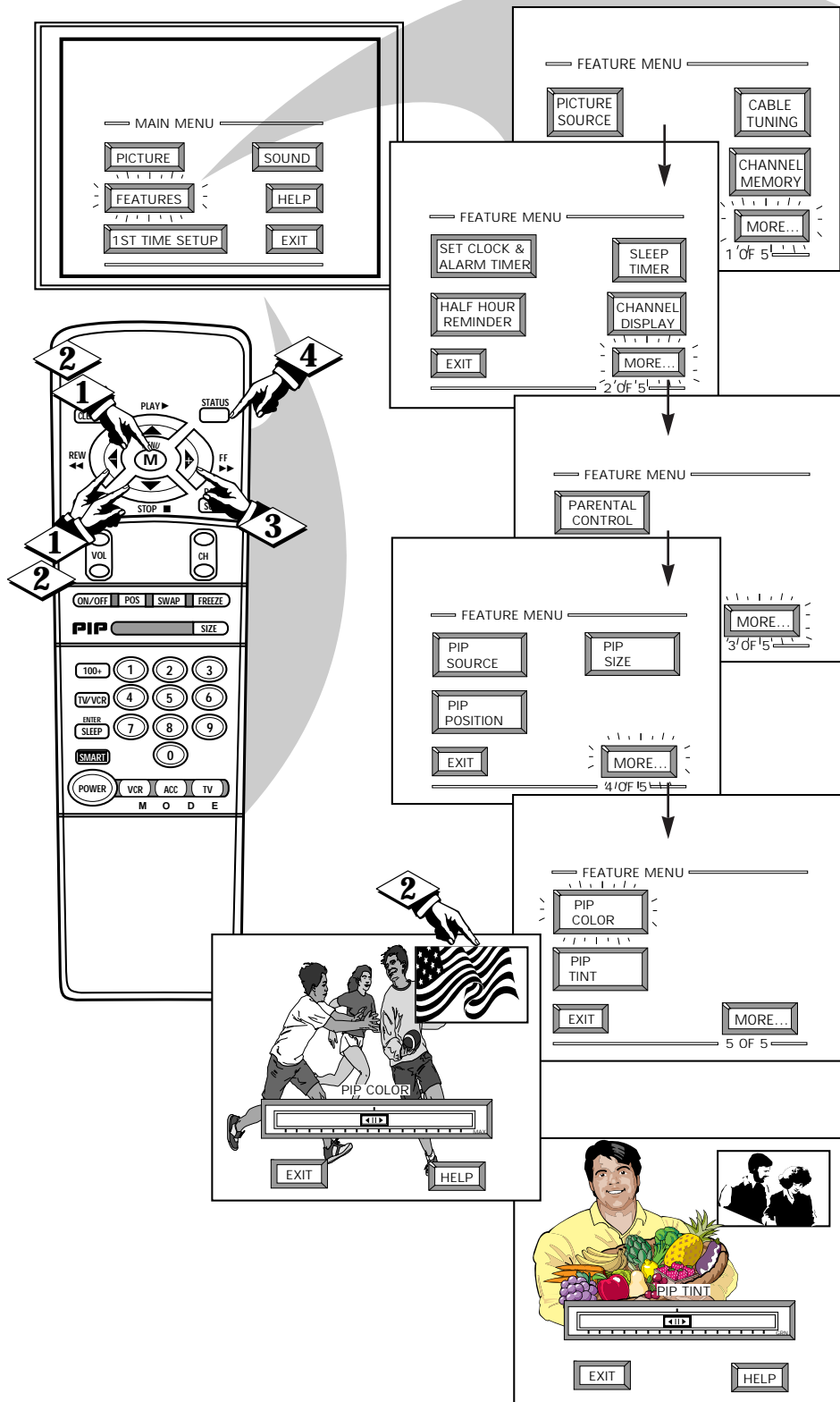The PIP automatically comes on to show the PIP window on the TV screen.

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

4 **Press the STATUS** button to clear the screen.

STOP

☀ **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).

--- MAIN MENU ---

PICTURE	SOUND
FEATURES	HELP
1ST TIME SETUP	EXIT

--- FEATURE MENU ---

PICTURE SOURCE	CABLE TUNING
	CHANNEL MEMORY
	MORE…
1 OF 5

--- FEATURE MENU ---

SET CLOCK & ALARM TIMER	SLEEP TIMER
HALF HOUR REMINDER	CHANNEL DISPLAY
EXIT	MORE…
2 OF 5

--- FEATURE MENU ---

| PARENTAL CONTROL |

MORE…
3 OF 5

--- FEATURE MENU ---

PIP SOURCE	PIP SIZE
PIP POSITION	
EXIT	MORE…
4 OF 5

--- FEATURE MENU ---

| PIP COLOR |
| PIP TINT |
| EXIT | MORE… |
5 OF 5

PIP COLOR
EXIT   HELP

PIP TINT
EXIT   HELP

The following example is for an alternative PIP connection hookup using an external Cable Converter Box and a VCR (as the picture source for the PIP window).

(BEGIN)

1 **First use an optional signal splitter and** connect the original cable TV signal to both the CABLE IN on the Cable Converter and the ANTENNA A plug on the rear of the TV.

2 **Connect the CABLE OUT** on the Converter to the ANT. IN on the VCR.

3 **Connect the VIDEO OUT jack** on the VCR to the VIDEO IN jack on the TV.

Also connect the AUDIO OUT (R and L) jacks from the VCR to the AUDIO IN jacks on the TV.
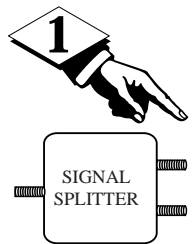
(STOP)

SMART HELP

Remember to use the Cable TV Converter Box to select channels for PIP, the VCR must be set to the same channel as the channel selection switch on the rear of the Cable Converter (either channel 3 or 4).

REAR OF TV

FIXED
VAR
AUDIO OUT
VIDEO OUT
VIDEO
AUDIO
AUX 1   AUX 2
INPUTS
ANT/CABLE
75 Ω UHF/VHF
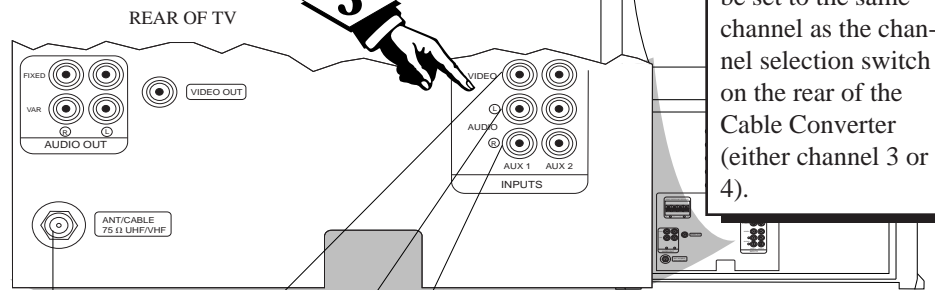
The ANTENNA signal input supplies the TV's Main screen picture, and the AUX 1 VIDEO Input connection from the VCR serves as the picture source for PIP. Be sure to set the TV's PIP SOURCE SELECT control to the "AUX 1 VIDEO" mode in order to display the Audio/Video Input signals within the PIP window.

AUDIO VIDEO CABLES
(RCA Plug Cables - optional)

1

SIGNAL SPLITTER

Contact the Parts Information Center 1 800 851-8885 to order any optional accessories

OUT   OUT
ANTENNA OUT
VIDEO   L AUDIO R
ANTENNA IN
IN   IN

VCR

2

CABLE OUT

CABLE IN

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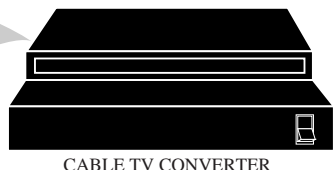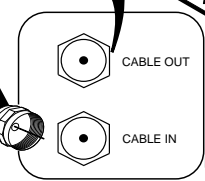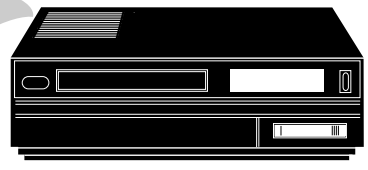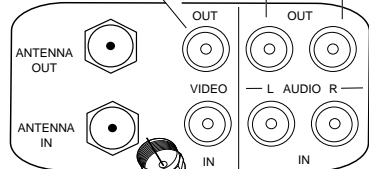
The on screen HELP menu offers both Operating Tips and a list of Glossary definitions for different features on your TV. These items are given to provide you with more information and details on a select group of feature operations.

(BEGIN)

1 **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.

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

STOP

─── MAIN MENU ───

PICTURE	SOUND
FEATURES	HELP
1ST TIME SETUP	EXIT

─── HELP MENU ───

OPERATIONG TIPS   For Problems

GLOSSARY   Of TV Features

EXIT

─── OPERATING TIPS ───

USING OPERATING TIPS
• Use the ▲ and ▼ keys on your remote to scroll through the different help items.
• Use the "M" key on your remote will go back to the help menu.
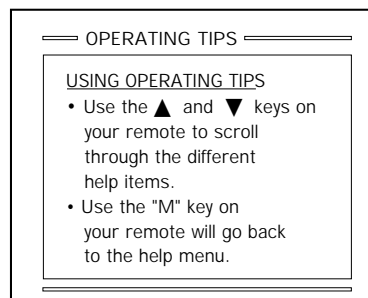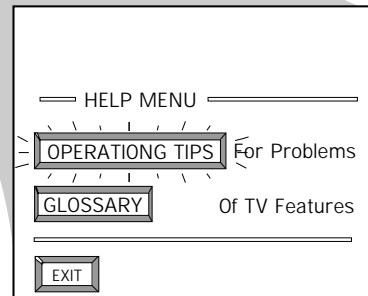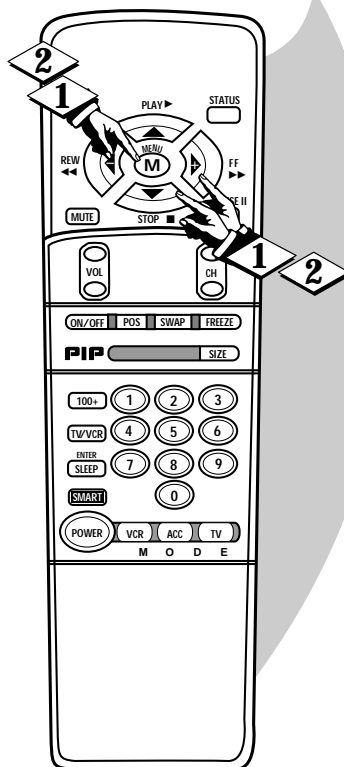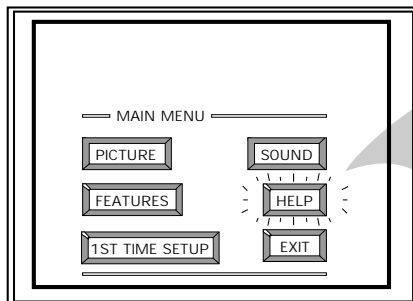
FOLLOW THE ON SCREEN DIREC-
TIONS TO VIEW OPERATING TIPS

*P*lease 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 ANTENNA; AUX 1/AUX2 VIDEO; or AUX Y P$_B$ P$_R$ position without a signal source connection will result in a blank screen.
- Check the CLOSED CAPTIONS control. Some TEXT modes could block the screen.

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- Check the TV SPEAKER ON/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 VCR-ACC-TV "System" buttons on the remote. Press the remote's <u>TV</u> System button to send commands to the TV; <u>VCR</u> System to send to VCR; etc.
- Check batteries. Replace with AA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary.
- Clean the remote and the remote sensor window on the TV.

TV Displays Wrong Channel or No Channels Above 13

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

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

Cleaning and Care
- To avoid possible shock hazard be sure the TV is unplugged from the electrical outlet before cleaning.
- When cleaning the TV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive- do not use household cleaners). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Specially designed screen cleaning kits are also available which contain anti-static cleaners and cloths designed to get into the ridges of the TV screen. If interested, ask your dealer about an optional Projection TV Screen Cleaning Kit or call our toll-free Accessory Parts ordering number 1-800-851-8885.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water and a mild soap or detergent. Use a clean dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the cabinet back.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

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

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

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

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

LED * Light Emitting Diode or indicator.

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

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

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

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

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

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

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

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

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

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

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

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

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

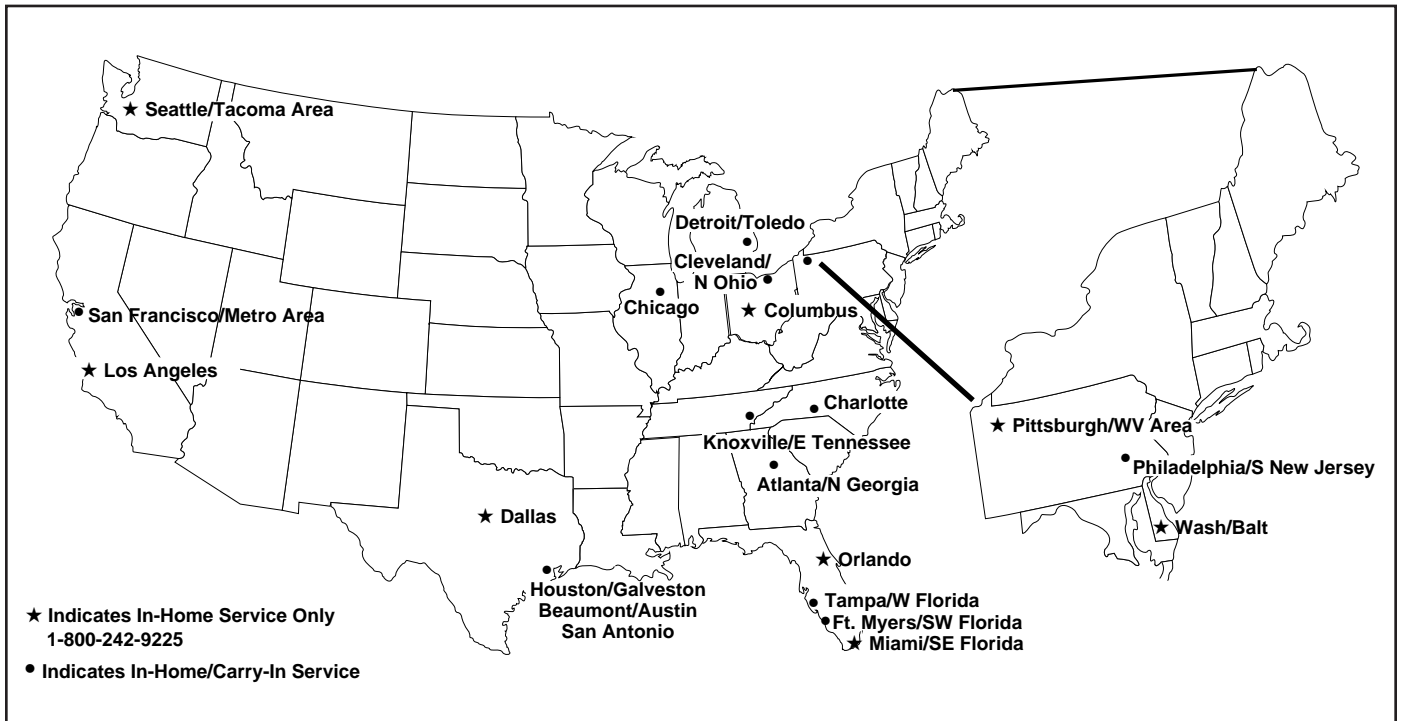**Variable Audio Output *** An adjustable audio output which allows for volume variations at the source.

INDEX

* Information contained in Quick-Use (Q/U) Guide - page listed

Philips Consumer Electronics Company
Factory Service Center Locations

★ Seattle/Tacoma Area

● San Francisco/Metro Area

★ Los Angeles

Detroit/Toledo

Cleveland/
N Ohio

● Chicago

★ Columbus

Charlotte

Knoxville/E Tennessee

Atlanta/N Georgia

★ Pittsburgh/WV Area

● Philadelphia/S New Jersey

★ Wash/Balt

★ Dallas

Houston/Galveston
Beaumont/Austin
San Antonio

★ Orlando

● Tampa/W Florida
● Ft. Myers/SW Florida
★ Miami/SE Florida

★ Indicates In-Home Service Only
  1-800-242-9225

● Indicates In-Home/Carry-In Service

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

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

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

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product
Please contact Philips at   1-800-661-6162 (French speaking)
                                    1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile
Veuillez contacter philips á: 1-800-661-6162 (Francophone)
                                    1-800-363-7278

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo
Favor de comunicarse con Philips al: 1-800-661-6162 (francófono)
                                        1-800-363-7278 (anglófono)

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QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE. AND, IF THE PHONE NUMBER LISTED FOR YOUR AREA IS LONG DISTANCE, CALL **1-800-242-9225** FOR FACTORY SERVICE.

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

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

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

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

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

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

CENTRAL U.S.A.
Philips Factory Service Central US
950 Keynote Circle
Brooklyn Heights, OH 44131
(216) 741-3334

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

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

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

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

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

LIMITED WARRANTY

PROJECTION TELEVISION

One Year Free Labor

One Year Free Service on Parts

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

This product can be repaired in-home.

WHO IS COVERED?

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

WHAT IS COVERED?

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

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

WHAT IS EXCLUDED?

Your warranty does not cover:

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

WHERE IS SERVICE AVAILABLE?

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

MAKE SURE YOU KEEP...

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

BEFORE REQUESTING SERVICE...

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

TO GET WARRANTY SERVICE...

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

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

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

IF YOU HAVE QUESTIONS...

Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-363-7278 (English Speaking)

REMEMBER...

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

MODEL # _____

SERIAL # _____

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

Philips Service Company, P.O. Box 2976, Longview, TX 75606, (903) 242-4800

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