



PROJECTION TELEVISION



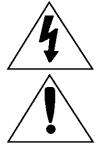
Owner's Instructions

AA68-01413A(ENG)

Warning! Important Safety Instructions



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.



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Note to CATV system installer: This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), 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.

Caution: FCC/CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

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

Attention: pour eviter les chocs electriques, introduire la lame le plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws. Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

Thank You for Choosing Samsung

Thank you for choosing Samsung! Your new Samsung Projection TV represents the latest in television technology. We designed it with easy-to-use on-screen menus and closed captioning capabilities, making it one of the best products in its class. We are proud to offer you a product that will provide convenient, dependable service and enjoyment for years to come.

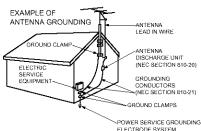
Important Safety Information

- Always be careful when using your TV receiver. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.
- Read all safety and operating instructions before operating your TV.
- Keep the safety and operating instructions for future reference.
- Heed all warnings on the TV receiver and in the operating instructions.
- · Follow all operating and use instructions.
- Unplug the TV receiver from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.
- Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.
- Do not use the TV receiver where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.
- Do not place the TV on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling TV can cause serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the TV. Follow the manufacturer's instructions when mounting the unit, and use a mounting accessory recommended by the manufacturer. Move the TV and cart with care. Quick stops, excessive force, and uneven surfaces can make the unit and cart unsteady and likely to overturn.



- Provide ventilation for the TV receiver. The unit is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block these openings with any object, and do not place the TV receiver on a bed, sofa, rug, or other similar surface. Do not place it near a radiator or heat register. If you place the TV receiver on a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.
- Operate your TV receiver only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.
- Use only a grounded or polarized outlet. For your safety, this TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.

- Protect the power cord. Power supply cords should be routed so that they won't be walked on
 or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- Unplug the TV from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.
- Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.
- Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.
- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the TV.
- Ground outdoor antennas. If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



ELECTRODE SYSTEM NEC — NATIONAL ELECTRICAL CODE (NEC ART 250, PART H)

- Do not attempt to service the TV yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - when the power-supply cord or plug is damaged
 - if liquid has been spilled on the unit or if objects have fallen into the unit
 - if the TV has been exposed to rain or water
 - if the TV does not operate normally by following the operating instructions
 - if the TV has been dropped or the cabinet has been damaged
 - when the TV exhibits a distinct change in performance
- If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to normal.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.
- Upon completion of any service or repairs to this TV, ask the service technician to perform safety checks to determine that the TV is in a safe operating condition.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may cause undesired operation.
This television receiver provides display of television closed captioning in accordance with 15.119 of the FCC rules.

2 SAFETY

FCC Information

User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation .

If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product. Declaration of conformity for products marked with FCC Logo. This device complies with Part 15 of the

FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device may not cause harmful interference.

(2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for product compliance:

SAMSUNG ELECTRONICS CO., LTD America QA Lab of Samsung 85 West Tasman Drive San Jose, CA 95134 USA Tel) 408-544-5124 Fax) 408-544-5191

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating. For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6015P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Notice de Conformité IC

Cet appareil numérique de classe B respecte toutes les exigences du Règlement ICES-003 sur les équipements produisant des interférences au Canada.

MPR II Compliance

This monitor complies with SWEDAC (MPR II) recommendations for reduced electric and magnetic fields.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) Radio Frequency Interference
- EN50082-1 : 1992 Electromagnetic Immunity
- EN60555-2 (IEC555-2) Power Line Harmonics
- EN60555-3 (IEC555-3) Voltage Fluctuations
- EN60950 (IEC950) Product Safety.

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Chapter One

Your New TV

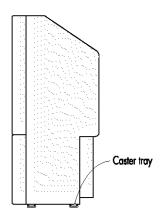
List of Features

Your Samsung TV was designed with the latest technology. This TV is a high-performance unit that includes the following special features:

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer
- Picture-in-Picture
- · Component Video Input jacks to obtain a sharper image from external sources
- Perfect Focus

Precautions When Moving and Installing the Unit

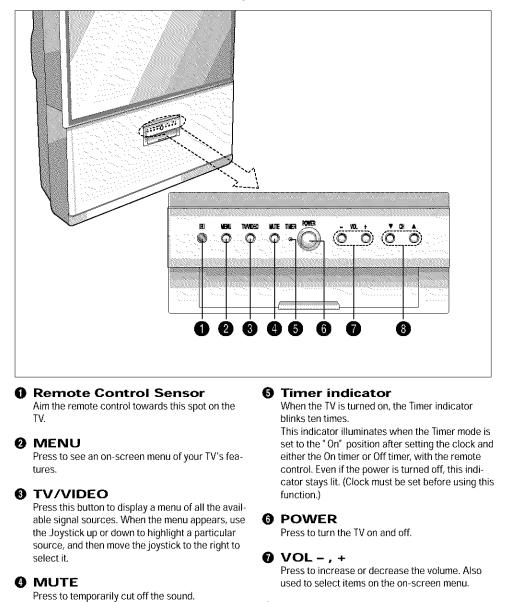
- This Projection Television is provided with casters at itsbottom so it can be moved easily. Depending on the material of the floor, it may get scratched when the unit is moved. Care should be taken when moving the unit.
- When you want to install the Projection Television in a given location, or use it on the carpet, make sure to use the accompanying caster trays (4 units). When placing the caster tray beneath the casters, be sure your fingers do not get caught.



Familiarizing Yourself with The TV

Front Panel Buttons

The buttons on the front panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.

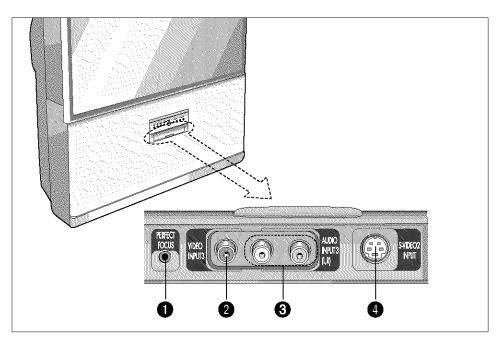


8 CH▼and CH▲

Press to change channels. Also press to highlight various items on the on-screen menu.

Front Panel Jacks

You can use the front panel jacks to connect an A/V component that is used only occasionally, such as a camcorder or video game. (For information on connecting equipment, see pages 2.1 - 2.8.)



0 PERFECT FOCUS

Press to adjust for the optimum picture set in the Factory.

VIDEO INPUT jack Use to connect a video signal from a camcorder or a video game.

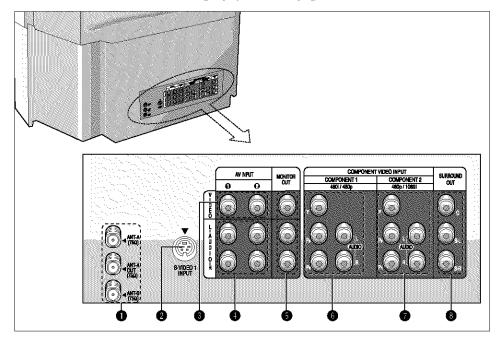
- **3 AUDIO INPUT jacks** Use to connect the audio signals from a camcorder or video game.
- S-VIDEO INPUT jack Use to connect an S-Video signal from a camcorder or a video game.

Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player.

Because there are two sets of input jacks, you can connect two different A/V components (i.e., a VCR and a DVD, 2 VCRs, etc.)

For more information on connecting equipment, see pages 2.1 - 2.8.



O ANTENNA terminals

Two independent cables or antennas can be connected to these terminals. Use ANT-A and ANT-B terminals to receive a signal from VHF/UHF antennas or your cable system. Use the ANT-A OUT terminal to send the signal being received by the ANT-A terminal out to another component (such as a Cable Set Top Box). The PIP channel can be received only when a signal source is connected to ANT-A.

O S-VIDEO INPUT jack

Connect to an S-VHS VCR or DVD player.

VIDEO INPUT jacks Connect to the video output jacks of VCRs, DVD players and similar devices (Two sets are available: Video1 and Video2).

O AUDIO INPUT jacks Connect to the audio output jacks of VCRs, DVD players and similar devices.

O AUDIO-VIDEO MONITOR OUTPUT jacks

Connect to the audio/video input jacks of a recording VCR. Note: The monitor out does not operate in DVD or DTV mode.

COMPONENT 1(480i, 480p) INPUT jacks

Connect a source that outputs 480i/480p Y,P $_{\rm B}$ and P $_{\rm R}$ signals, such as a DVD Player.

COMPONENT 2(480p, 1080i) INPUT jacks

Connect a source that outputs 480p/1080i Y,P $_{\rm B}$ and P $_{\rm R}$ signals, such as a DTV Set-Top Box.

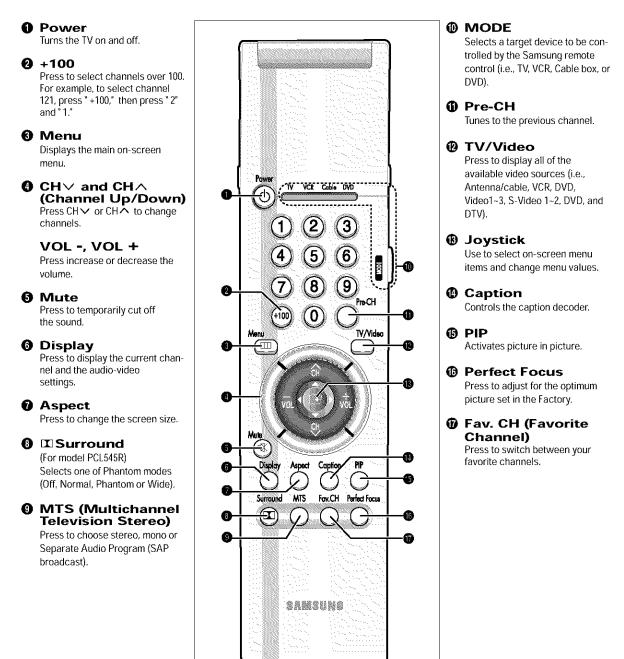
SURROUND OUT

Connects to a (optional) rear-surround amp: Surround Left, Surround Right and Center.

Remote Control

You can use the remote control up to about 23 feet from the TV. When using the remote, always point it directly at the TV.

You can also use your remote control to operate your VCR and cable box. See page 4.19 for details.



1.5 Chapter One: Your New TV

Remote Control (continued)

① ANT A/B

Press to select the ANT A or ANT B.

R.surf

Press to automatically return to a preferred channel after a userpreset time delay.

③ S.Mode

Adjust the TV sound by selecting one of the preset factory settings (or select your personal, customized sound settings).

P.Mode

Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings).

Ø VCR controls

Controls VCR tape functions: Rewind, Play, fast Forward, Stop, Pause.

PIP Controls Source

Press to select one of the available signal sources for the PIP window.

<u>Scan</u>

Press to memorize (scan) the available channels.

Locate

Press to move the PIP window to any of the four corners of the TV screen.

<u>Swap</u>

Exchanges the video signal that is currently displayed on the main screen with the signal in the PIP window.

<u>Size</u>

Press to make the PIP window small, large or double screen.

• Double window doesn't function on the models PCL5415R/PCL6215R.

<u>CH</u>

Displays the available channels in sequence. (These buttons change channels in the PIP window only).



Ø V.chip

Press to set up and activate the parental locks.

🕲 Set

Used during set up of this Samsung remote control, so that it will work compatibly with other devices (VCR, cable box, DVD.)

Ø Sleep

Press to select a preset time interval for automatic shutoff.

Add/Erase

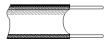
Press to add or erase channels in the TV's memory.

Chapter Two

INSTALLATION

Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see "Antennas with 300-ohm Flat Twin Leads," below.



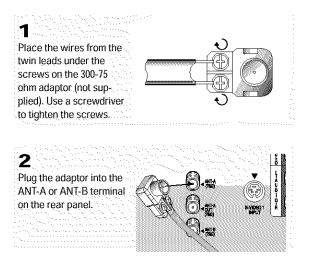
If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads," on page 2.2.

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229 2007/2007/2007/2007/2007 /2007/2007/2007	

If you have two antennas, see "Separate VHF and UHF Antennas," on page 2.2.

Antennas with 300-ohm Flat Twin Leads

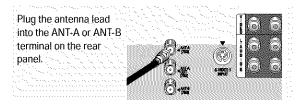
If you are using an off-air antenna (such as a roof antenna or "rabbit ears") that has 300-ohm twin flat leads, follow the directions below.



2.1 Chapter Two: Installation

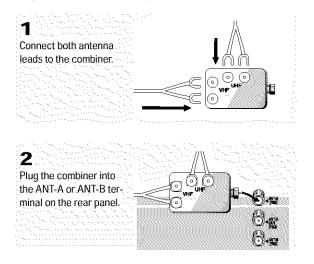
INSTALLATION

Antennas with 75-ohm Round Leads



Separate VHF and UHF Antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires a an optional combiner-adaptor (available at most electronics shops).

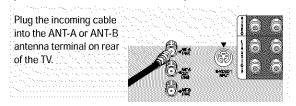


Connecting Cable TV

You can connect different cable systems to your TV, including cable without a cable box, and cable with a cable box that descrambles some or all channels.

Cable without a Cable Box

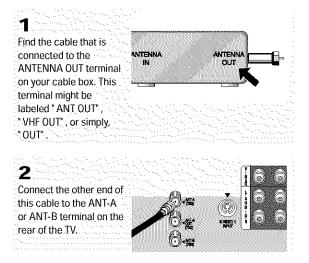
If you want to connect cable, and you do not need to use a cable box:



CHAPTER TWO: INSTALLATION 2.2

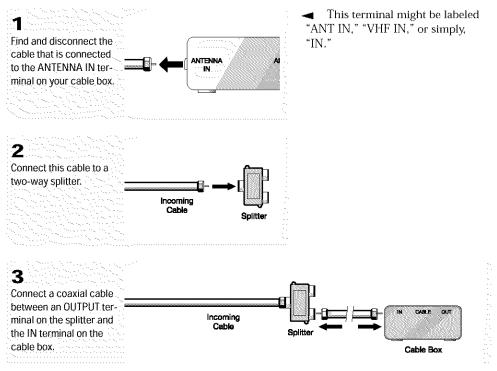
INSTALLATION

Cable with a Cable box that Descrambles All Channels

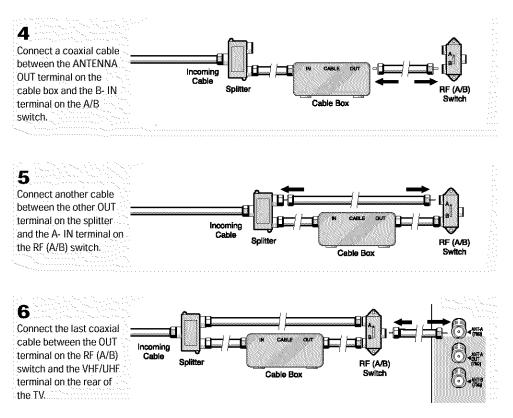


Connecting to a Cable Box that Descrambles Some Channels

If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of coaxial cable. (These items are available at most electronics stores.)



2.3 Chapter Two: Installation



After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B," you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 2.1-2.3). Skip step **1** if you have not yet connected to an antenna or a cable system.

1 Connect a coaxial cable between the ANTENNA OUT terminal on the VCR and the antenna terminal on the TV. A coaxial cable is usually included with

a VCR. (If not, check your local electronics store).

2

Connect a set of audio cables between the AUDIO OUT jacks on the VCR and the AUDIO jacks on the TV.

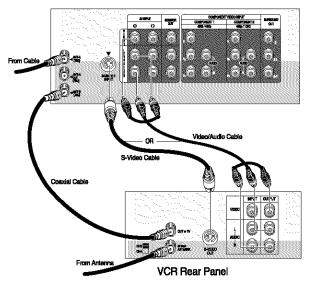
If you have mono VCR, connect L(mono) to VCR audio out using only one audio cable.

3 Connect a video cable between the VIDEO OUT jack on the VCR and the VIDEO jack on the TV.

If you have a S-VHS VCR, use the S-Video connections and remove the video cable. Do not connect the video cable and the S-Video cable to video 1 simultaneously.

Follow the instructions in "Viewing a VCR or Camcorder Tape" to view your VCR tape.

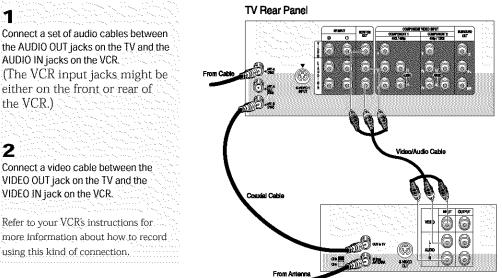
TV Rear Panel



INSTALLATION

Connecting a Second VCR to Record from the TV

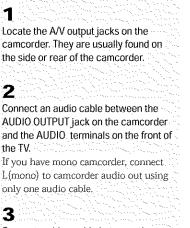
Your TV can send out signals of its picture and sound to be recorded by a second VCR. To do this, connect your second VCR as follows:



VCR Rear Panel

Connecting a Camcorder

The front panel jacks on your TV make it easy to connect a camcorder to your TV. They allow you to view the camcorder tapes without using a VCR. (Also see "Selecting a Signal Source (External A/V)" on page 3.21)

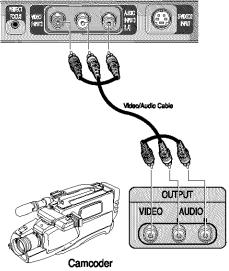


Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the VIDEO terminal on the front of the TV.

The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to

connect a set of two cables.

TV Front Panel

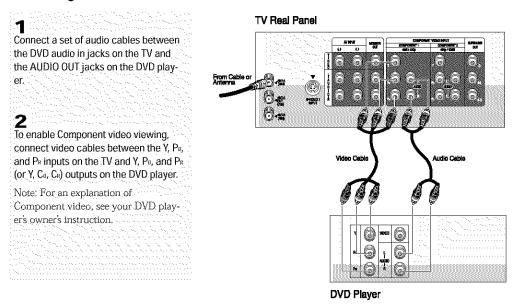


CHAPTER TWO: INSTALLATION 2.6

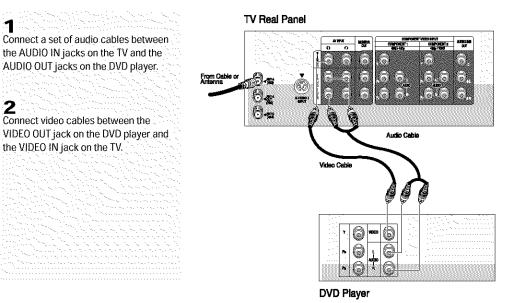
Connecting a DVD (480i, 480p) Player

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

Connecting Y, P_B , P_R



Connecting audio and video jacks

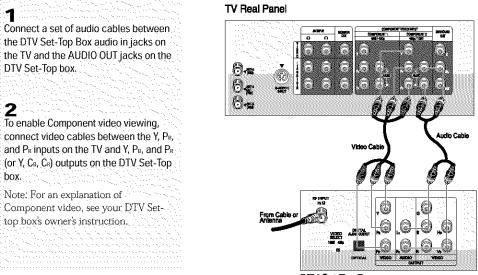


2.7 Chapter Two: Installation

Connecting a DTV Set-Top Box (480p, 1080i)

When switching to the DTV mode, either 480p or 1080i format is automatically selected according to the input signal.

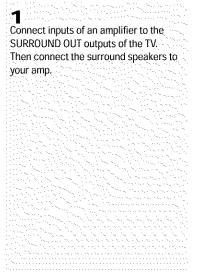
Note: Only 480p and 1080i formats are supported.



DTV Set-Top Box

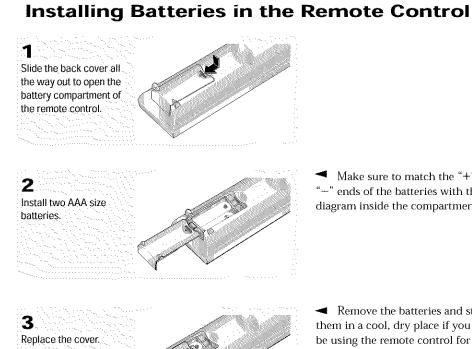
TV Real Panel

Connecting Surround Speakers

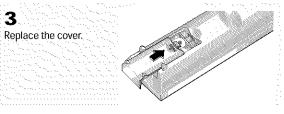


urround Speaker A Sunround Speaker B Center Speaker

Chapter Two: Installation 2.8



Make sure to match the "+" and "--" ends of the batteries with the diagram inside the compartment.



 Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

The remote control can be used up to about 23 feet from the TV.

(Assuming typical TV usage, the Batteries last for about one year.)

Chapter Three

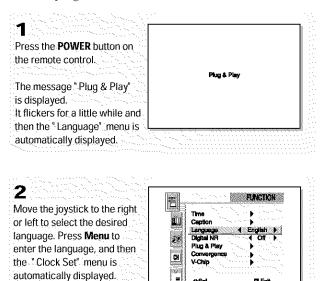
OPERATION

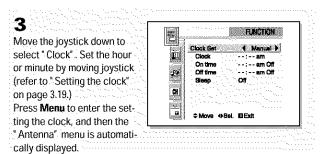
Turning the TV On and Off

Press POWER. You can also use the POWER button on the front panel.

Plug & Play Feature

When the TV is initially powered On, five basic customer settings proceed automatically and subsequently: Setting the language, Setting the Clock, Setting the Antenna, Ant. input check, and Auto program.

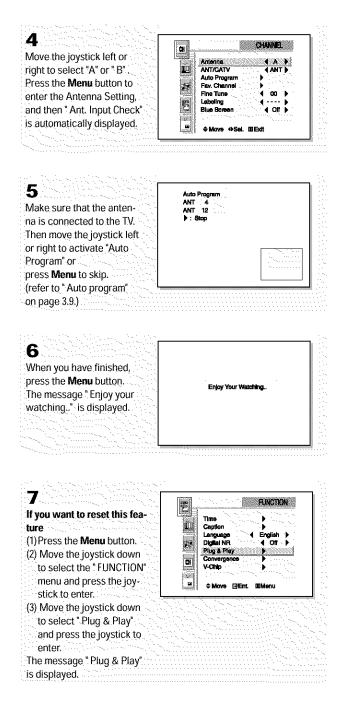




continued...

00 Exit

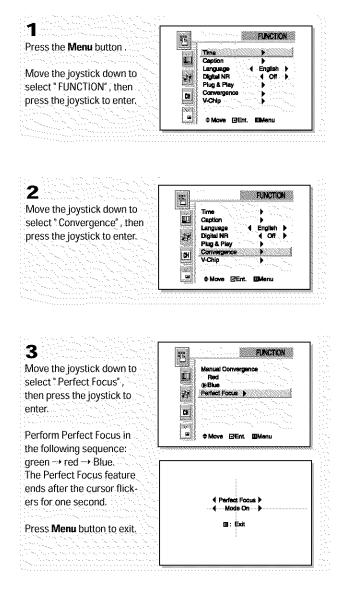
Operation



Note: Plug & Play feature doesn't work when the V-chip is on or when in the $A\!/\!V$ mode.

Using the Perfect Focus Feature

When the picture size is distorted after moving the TV set, use the Perfect Focus feature to adjust for the optimum picture size set in the Factory.



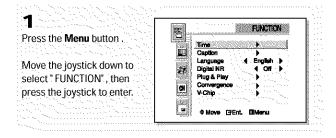
Notes

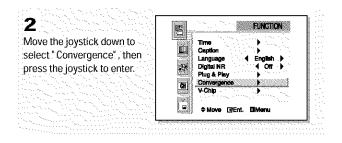
- If any error happens during Perfect Focus, then perform Perfect Focus once again.
- If you can't make adjustments after Perfect Focus, then make manual adjustments. If you still can't make adjustments, contact your Service Center.

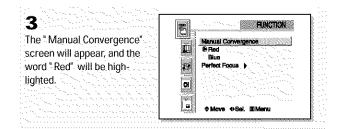
Adjusting Manual Convergence

If the color appears spread out or "smeared" on the screen, the convergence probably needs alignment. Be sure to use the remote control for the convergence adjustments.

First steps:



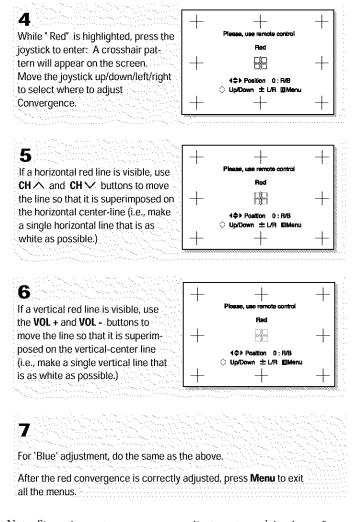




continued...

3.4 CHAPTER THREE: TV OPERATION

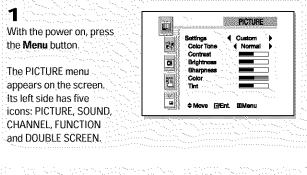
Adjust Red Convergence



Note: Since the center convergence adjustments can't be done after completing the side convergence adjustments, do the center convergence adjustments first. If you have done the side convergence adjustments first, then end the Convergence Adjustments by pressing the Menu button, Then re-start from No. 3 on page 3.4 to adjust the center convergence.

Viewing the Menus and On-Screen Displays

Viewing the Menus



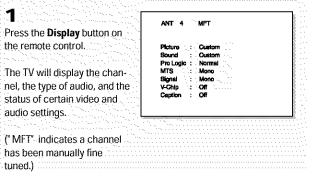
 The on-screen menus disappear from the screen after thirty seconds.

2 Use the joystick(up and down) to the move items in the menu (the icons blink when highlighted). Use joystick (left, right) to display, change, or use the selected items. Use the joystick () to enter items in the menu. ✓ You can also use the MENU, CHANNEL, and VOLUME buttons on the control panel of the TV to make selections.

Viewing the Display

Press the Menu button to exit.

The display identifies the current channel and the status of certain audio-video settings.



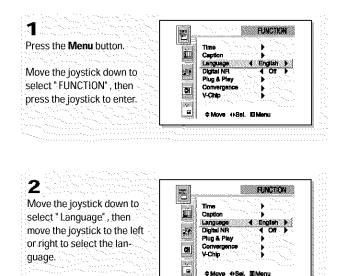
 The on-screen displays disappear after ten seconds. Press the Menu button to

Press the Menu button to

exit.

exit.

Selecting a Menu Language



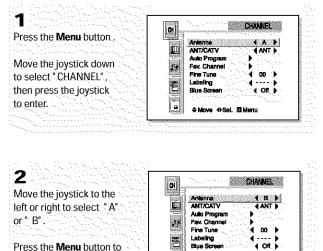
Selecting the Antenna Input

You can connect to two different signal sources by choosing the antenna input (Antenna A or Antenna B).

Off

≑Move ⊕Sel. III Menu

≑Moye ♦Sel. IIIMenu



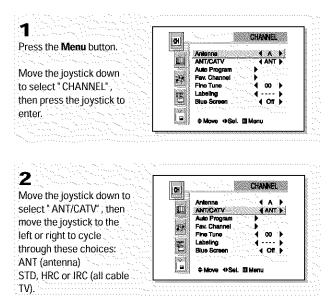
CHAPTER THREE: TV OPERATION 3.7

Memorizing the Channels

Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH \wedge and CH \vee buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

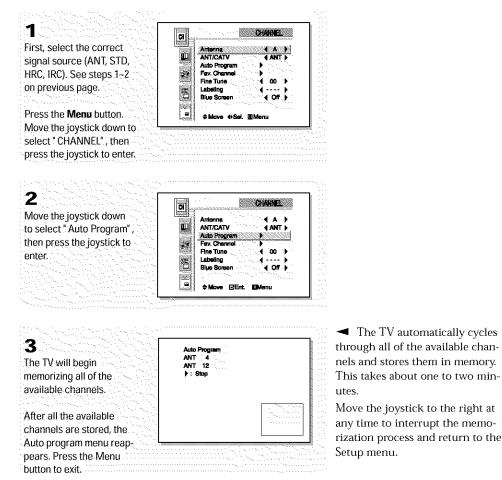
Selecting the Video Signal-source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).



Note: STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

At this point the signal source has been selected. Proceed to "Storing Channels in Memory" (next page).



Storing Channels in Memory (Automatic Method)

Note: Channel auto program does not function when the V-chip is active.

Adding and Erasing Channels (Manual Method)

1
Use the number buttons to directly select the channel that will be added or erased.
unat will be added of erased.
2 Press the Add/Erase button: Repeatedly pressing this button will alternate between
"Channel added" and "Channel erased."
Press the Menu button to exit.

You can view any channel (including an erased channel) by using the number buttons on the remote control.

Changing Channels

Using the Channel Buttons

Press the **CH** \land or **CH** \checkmark button to change channels.

When you press $CH \land$ or $CH \lor$, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

Using the Number Buttons

Use the number buttons to quickly tune to any channel.

Press the number buttons to go directly to a channel. For example, to select channel 27, press " 2," then " 7." The TV will change channels when you press the second number.

When you use the number buttons, you can directly select channels that were either erased or not memorized.

To select a channel over 100, press the +100 button. (For channel 122, press "+100," then "2," then "2.")

To change to single-digit channels (0-9) faster, press "0" before the single digit. (For channel "4," press "0," then "4.")

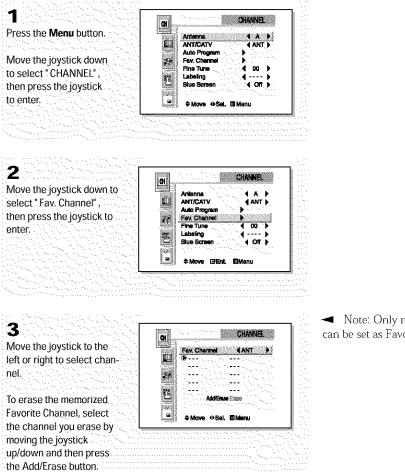
Using the Previous Channel

```
Press the Pre-CH button. The TV changes to the last channel you were watching.
```

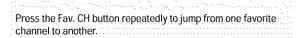
Selecting Your Favorite Channels

You can store up to ten of your favorite channels for each available input source (such as TV and CATV). Then, when you press the Fav.CH button on the remote control, the TV displays only the favorite channels you previously stored, allowing you to quickly and easily find frequently watched channels.

To Store Your Favorite Channels:



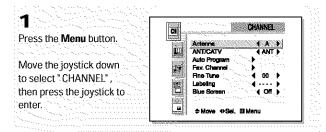
To View Your Favorite Channels:

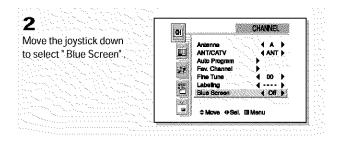


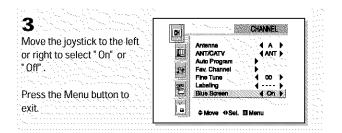
 Note: Only memorized channels can be set as Favorite channels.

Setting the Blue Screen Mode

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue screen" mode to "Off".



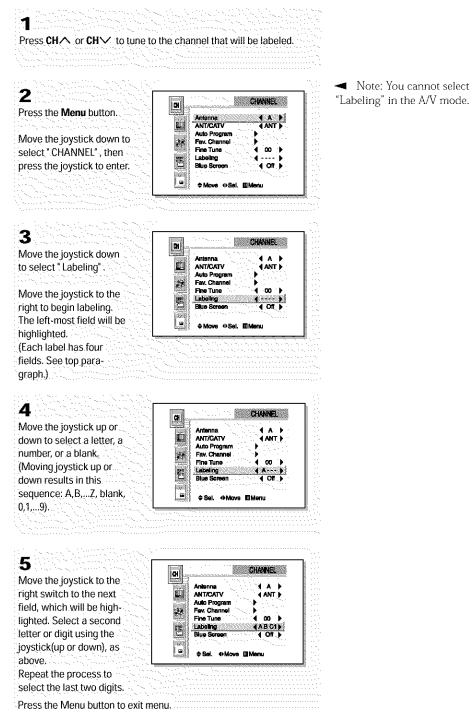




3.12 CHAPTER THREE: TV OPERATION

Labeling the Channels

Use this feature to assign an easy-to-remember label to any channel (i.e., "CBS", "ESPN", "PBS2", CNN1", etc.) A label consists of four fields, where each field is a letter, a number, "*", or a blank. When the DISPLAY button is pressed, the channel label will appear next to the channel number.

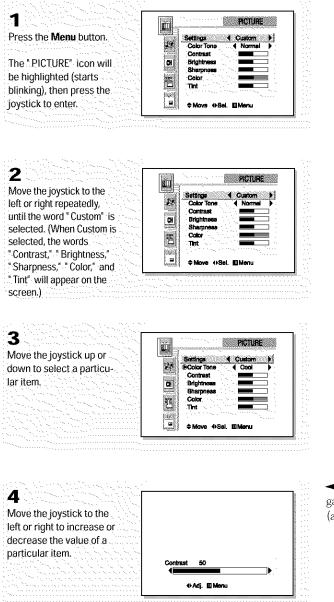


Chapter Three: TV Operation 3.13

Picture Control

You can use the on-screen menus to change the contrast, brightness, tint, color, and sharpness according to personal preference. (Alternatively, you can use one of the "automatic" settings. See next page.)

Customizing the Picture

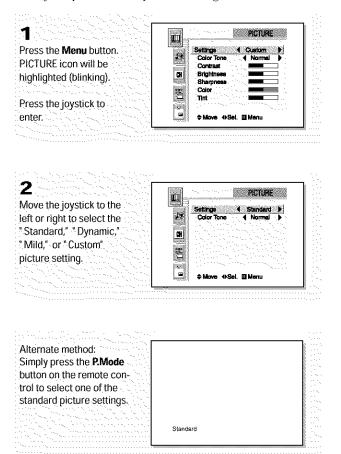


After adjusting an item, the gauge will automatically disappear (after about 5 seconds).

3.14 CHAPTER THREE: TV OPERATION

Using Automatic Picture Settings

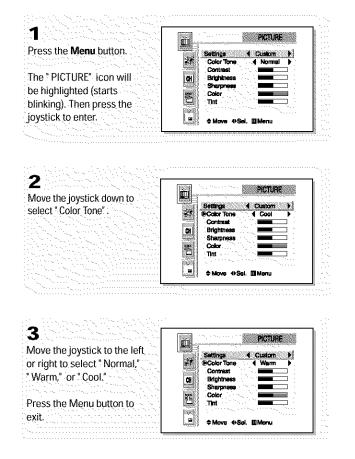
Your TV has two automatic picture settings ("Standard", "Dynamic" and "Mild") that are preset at the factory. You can activate either Standard, Dynamic or Mild by pressing P.Mode (or by making a selection from the menu). Or, you can select "Custom" which automatically recalls your personalized picture settings.



- Choose Standard for the standard factory settings.
- Choose *Dynamic* for viewing the TV during the day or when there is bright light in the room.
- Choose *Mild* ("Mild Contrast") when viewing the TV in low light, or when playing video games.
- Choose *Custom* if you want to adjust the settings according to personal preference (see "Customizing the Picture, page 3.14).

Operation

Selecting the Color Tone



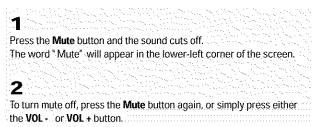
Sound Control

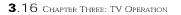
Adjusting the Volume

Press the VOL- or VOL+ buttons to increase or decrease the volume.

Using Mute

At any time, you can temporarily cut off the sound using the Mute button.

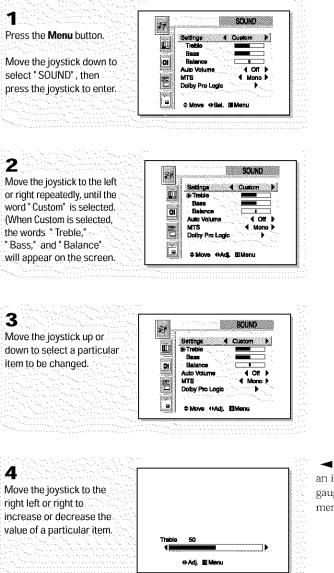




OPERATION

Customizing the Sound

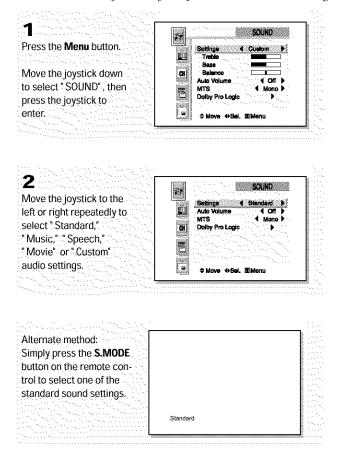
You can use the on-screen menus to adjust the bass, treble, and balance according to individual preference. (Alternatively, you can use one of the "automatic" settings. See next page.)



← When you are finished adjusting an item, wait about 10 seconds. The gauge will disappear and the Audio menu will return.

Using Automatic Sound Settings

Your TV has four automatic sound settings ("Standard," "Music," "Speech," and "Movie") that are preset at the factory. You can activate any of them by pressing the S.Mode button (or by making a selection from the on-screen menu). Or, you can select "Custom," which automatically recalls your personalized sound settings.

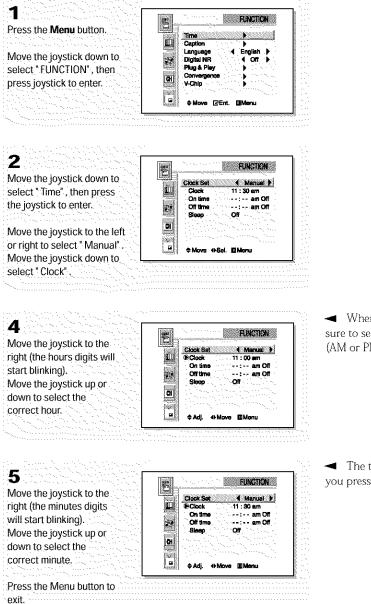


- Choose Standard for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose Speech when watching a show that is mostly dialogue (i.e., news).
- Choose Movies when watching movies.
- Choose Custom to recall your personalized settings.

Setting the Clock

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press Display.)

Option 1: Setting the Clock Manually

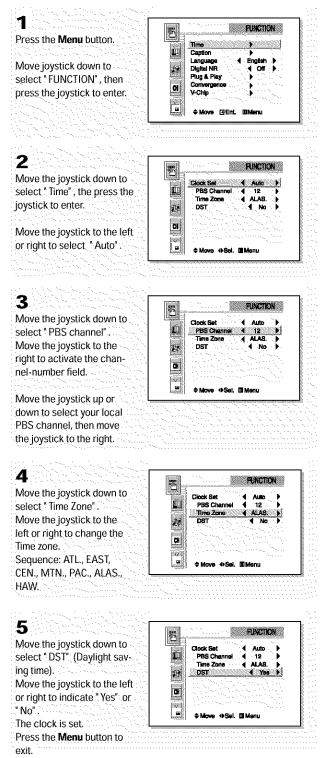


✓ When selecting the hours, be sure to select the proper time of day (AM or PM).

 The time will appear every time you press th Display button.

CHAPTER THREE: TV OPERATION 3.19

Option 2: Using the Local PBS Channel to Automatically Set the TV Clock



3.20 CHAPTER THREE: TV OPERATION

Selecting a Signal Source (External A/V)

You must select the appropriate mode in order to view the VCR or Camcorder signal on the TV.

Make sure that the remote control is control- ling the TV set. (Press the MODE button and make sure that the "TV". LED is illuminated.)	TV
2 Press the TV/Video button	ANT A @ ANT/CATV Video1 Video2 Not connected S-Video2 Not connected S-Video2 Not connected Component1 Connected Component1 Not connected Component2 Not connected Component2 Not connected Move E Ent. TV/Video Edt
3 Move the joystick up or down to highlight a par- ticular signal source, and then press the joystick to enter.	ANT 4 ANT/CATV Video1 Connected Video2 Not connected S-Video1 Not connected S-Video2 Not connected S-Video2 Not connected S-Video2 Not connected Component Connected
Press TV/Video to exit.	≑Move ⊡ Ent. TV/Video Exit

When you press the TV/Video button, the on-screen display identifies all the active video sources (and their corresponding input jacks):

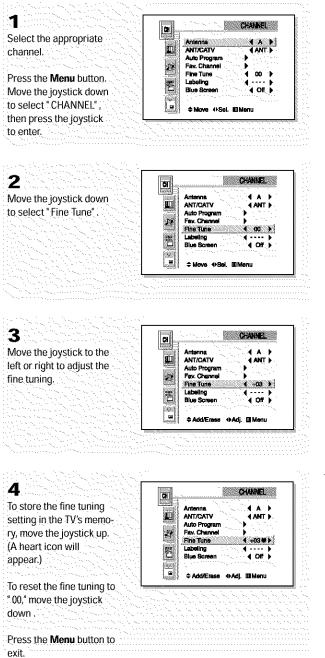
Select	Video jack	Audio jack
Video 1	Video 1 (rear panel)	Audio 1 "L+R"
Video 2	Video 2 (rear panel)	Audio 2 "L+R"
Video 3	Video 3 (front panel)	Audio 3 "L+R"
S-Video 1	S-Video 1 (rear panel)	Audio 2 "L+R"
S-Video 2	S-Video 2 (front panel)	Audio 3 "L+R"
Component 1	Component 1-Y, Pb, Pr (rear panel)	
Component 2	Component 2-Y, Pb, Pr (rear panel)	Component 2-Audio "L+R"

Chapter Four

Special Features

Fine Tuning Channels

Use fine tuning to manually adjust a particular channel for optimal reception.

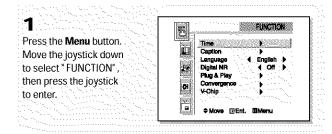


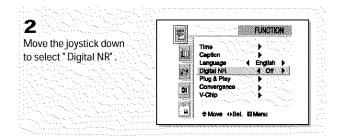
◄ After you adjust the fine tuning, the letters "MFT" will appear when you press the Display button while watching this channel.

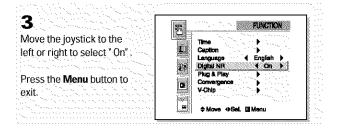
^{4.1} Chapter Four: Special Features

Digital Noise Reduction

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

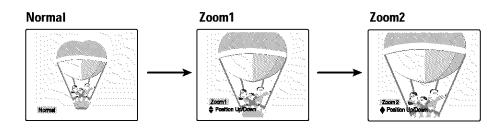






Changing the Screen Size

Press the Aspect button to change the screen.



• Normal: Sets the picture to 4:3 normal mode.

• Zoom1: Magnifies the size of the picture on screen.

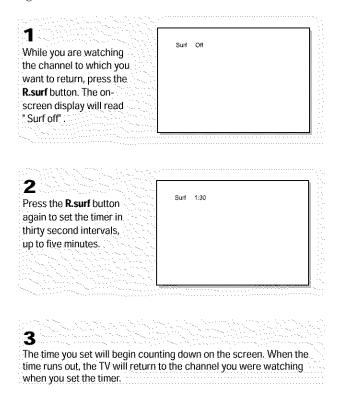
You can also move the picture on screen using the joystick up or down.

• Zoom2: Magnifies the size of the picture more than Zoom1. You can also move the picture on screen using the joystick up or down.

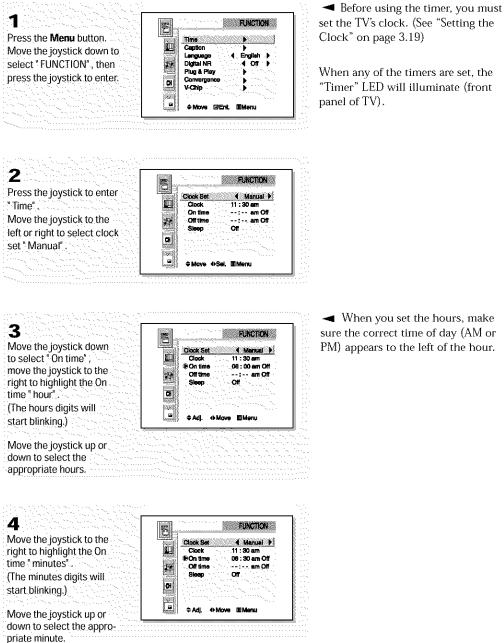
Notes: Screen size cannot be changed in the PIP mode. When the Aspect button is selected and then the appropriate OSD is displayed, the Channel Up/Down buttons don't operate for about three seconds.

Using the R.surf feature

This feature allows you to set the TV to return to a particular channel after a certain amount of time. For example, you may be watching a channel when commercials start. You can set the R.Surf to "5 minutes", then switch channels. After 5 minutes, the TV will return to the original channel. To use the R.surf:



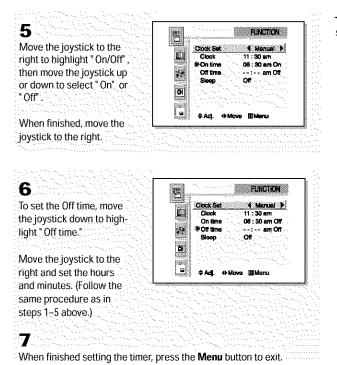
Setting the On/Off Timer



set the TV's clock. (See "Setting the Clock" on page 3.19)

When any of the timers are set, the "Timer" LED will illuminate (front

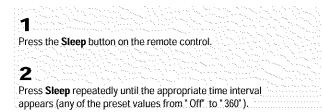
Special Features



To deactivate the "On time," select "Off" during this step.

Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 10 to 360 minutes).



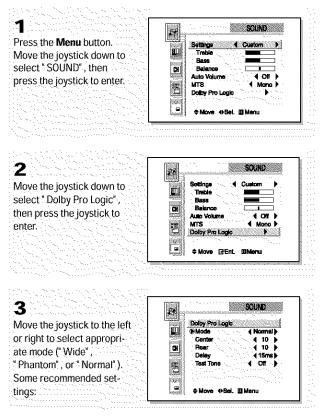
◄ After about 5 seconds, the sleep display will disappear from the screen, and the time interval will be set.

Dolby Surround (PCL545R)

The Dolby Surround Pro Logic option allows you to enjoy programs in surround sound.

Dolby Pro Logic

Dolby Pro Logic will provide you with full surround sound from Dolby Surround encoded program sources. For best results, look for programs and movies that are marked with the following logo: **DOLBY SURROUND**



✓ Quick way to access dolby surround mode: Simply press the "Surround" button on the remote control.

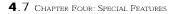
- Phantom : Selected when the center speaker is either not present or not used. In Phantom Mode, the center sound is output through both left and right speakers.
- Normal : Selected when the center speaker is smaller than the left and right speakers and can not reproduce bass sounds effectively. In Normal Mode, the bass frequencies of the center channel are reproduced by the left and right speakers.
- Wide : Selected when the center speaker can accurately reproduce bass frequencies. In wide Mode, all center channel sounds are reproduced by the center speaker.

After selecting the mode, move the joystick down, and highlight "Center." Next, move the joystick to the left or right and, depending on personal preference, select any value between -12 and +12. Follow a similar procedure for "Rear" and "Delay." (Some trial-and-error experimenting is necessary to find the optimal setting, which will vary according to individual preference).

After entering values for "Center," "Rear," and "Delay," use the joystick to activate "Test Tone." During "Test Tone," a tone will cycle through the speakers so you can hear the surround effect and make additional changes as needed.

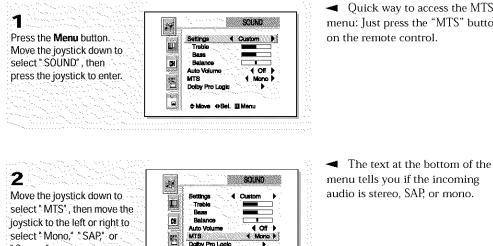
Press the Menu button to exit.

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



Choosing a Multi-Channel Sound (MTS)track

Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)



 Quick way to access the MTS menu: Just press the "MTS" button on the remote control.

menu tells you if the incoming audio is stereo, SAP, or mono.

Press the Menu button to exit

" Stereo."

Choose Stereo for channels that are broadcasting in stereo.

Choose Mono for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.

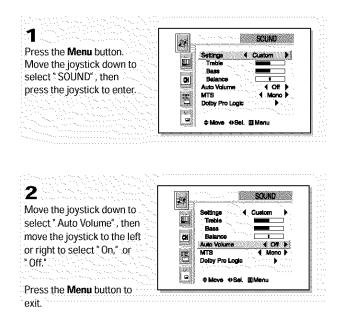
≜ Move

4èSei ≣Menu

Choose SAP to listen to the Separate Audio Program, which is usually a foreign-language translation.

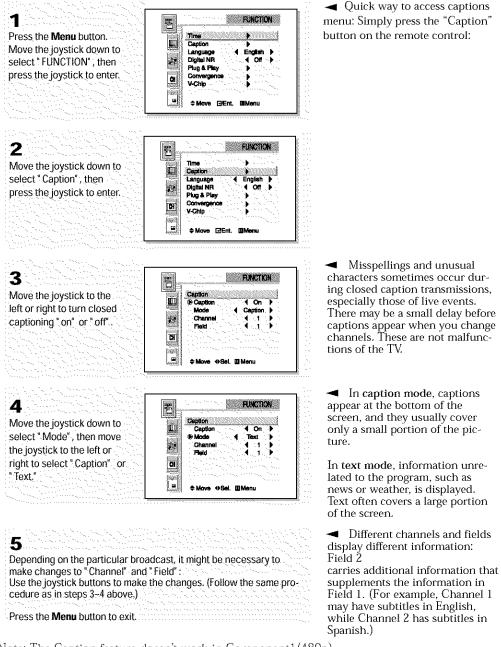
Auto Volume

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. "Auto Volume" lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.



Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: **CC**.



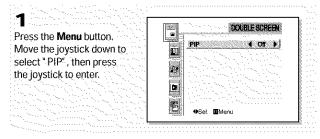
Note: The Caption feature doesn't work in Component1(480p), Component2, Zoom1, or Zoom2 mode.

CHAPTER FOUR: SPECIAL FEATURES 4.10

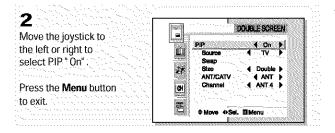
Viewing Picture-in-Picture

You can use the PIP feature to simultaneously watch two video sources.

Activating Picture-in-Picture



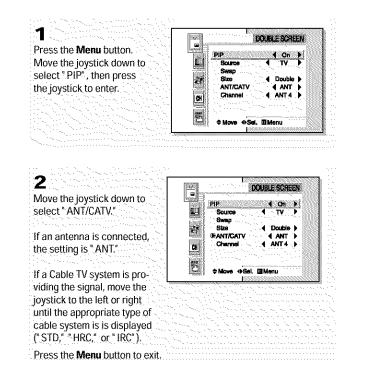
 Quick way to access the PIP menu: Simply press the "PIP" button on the remote control.



 If you turn TV off while watching and turn it on again, the PIP window will disappear.

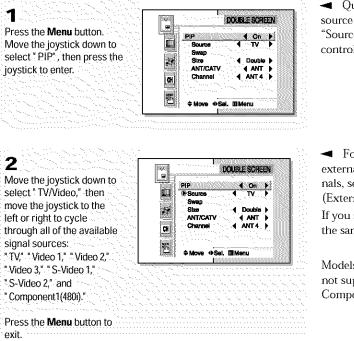
Notes

- Picture-in-Picture doesn't function when the V-chip is active.
- Screen size cannot be changed in the PIP mode.
- The PIP feature doesn't work with Component1 (480p) or Component2 signals.
- When the cable box output is connected to ANT-B, it cannot be viewed in the PIP window.
- Double Window doesn't function on models PCL5415R/PCL6215R.



Selecting a Signal Source (Antenna or Cable) for PIP

Selecting a Signal Source (External A/V) for PIP

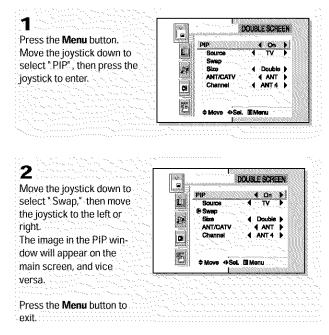


 Quick way to access the signal source (PIP): Simply press the "Source" button on the remote control.

✓ For more information about external A/V components and signals, see "Selecting a Signal Source (External A/V)" on page 3.21. If you select "TV", the PIP image is the same as the main image.

Models PCL5415R/PCL6215R do not support Component1, Component2 on the PIP subscreen.

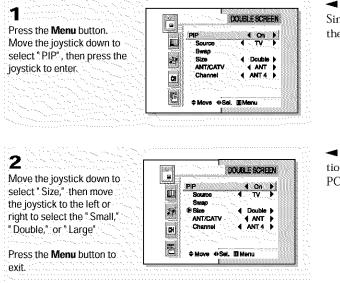




 Quick way to access swapping: Simply press the "Swap" button on the remote control.

Note: When the selection of ANT-B or Component mode is made, the PIP Swap function doesn't work.

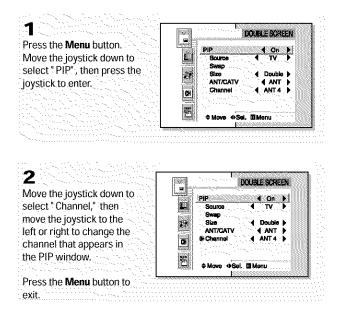
Changing the Size of the PIP Window



 Quick way to access PIP size:
 Simply press the "Size" button on the remote control.

◄ Double Window doesn't function on the models PCL5415R/PCL6215R.

Changing the PIP Channel



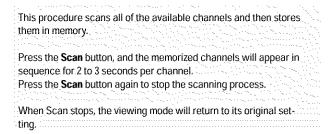
 Quick way to access PIP CH:
 Simply press the (PIP) "CH" button on the remote control.

Note: The PIP channels are not available when RF is set to ANT-B. (The PIP channels link to ANT-A).

Changing the Location (Rotating) in PIP mode

When you press the **Locate** button repeatedly, the PIP window moves from corner to corner on the TV screen.

Scanning the Available Channels

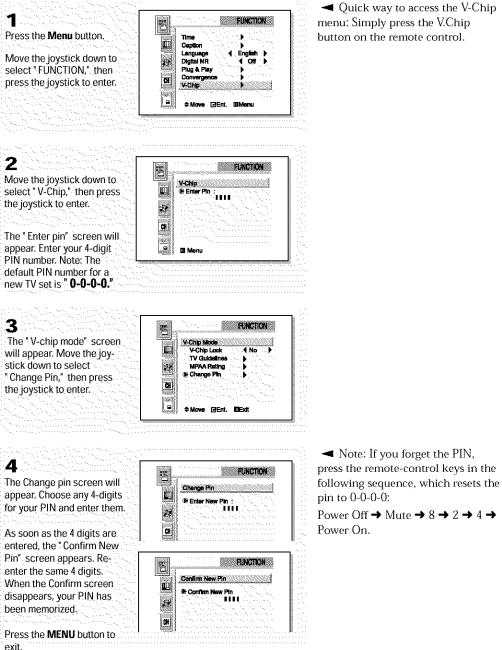


Using the V-Chip

The V-Chip feature automatically locks out programming that is deemed inappropriate for children. The user must first enter a PIN (personal ID number) before any of the V-Chip restrictions can be set up or changed.

Note : When the V-chip feature is active, the PIP and channel-auto program features do not function.

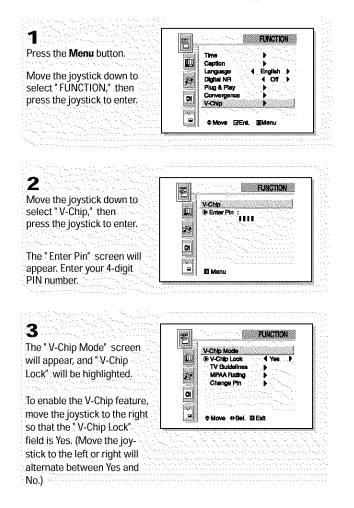
Setting Up Your Personal ID Number (PIN)



 Quick way to access the V-Chip menu: Simply press the V.Chip button on the remote control.

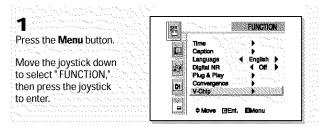
4.15 Chapter Four: Special Features

How to Enable/Disable the V-Chip

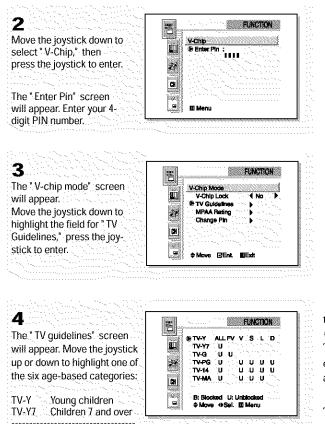


How to Set up Restrictions Using the "TV guidelines"

First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.



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◄ Note: These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else). The TV-Y and TV-Y7 categories are colored blue.

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

5 At this point, one of the TV-Ratings is highlighted.

General audience

Parental guidance

TV-MA Mature audience

Viewers 14 and over

Move the joystick to the right: Depending on your existing setup, a letter "U" or "B" will start blinking. (U= Unblocked, B= Blocked)

While the "U" or "B" is blinking, move the joystick up or down to block or unblock the category.

Move the joystick to the right to save the TV guidelines. A TV-Rating will be highlighted, and no letters will blink. To select a different TV-Rating, move the joystick up or down and then repeat the process.

Note 1: The TV-Y7, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings:

FV: Fantasy violence

D: Dialog

TV-G

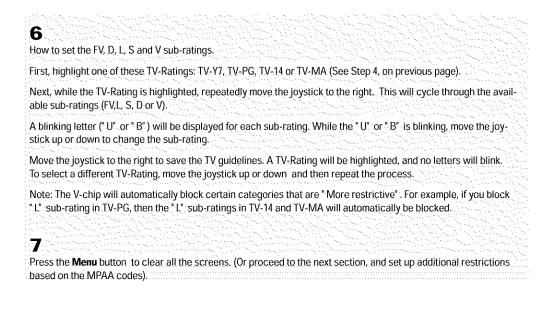
TV-PG

TV-14

L: L S: Sexual situation

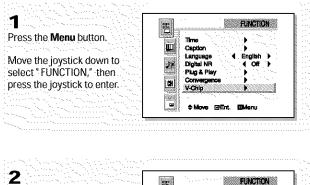
V: Violence

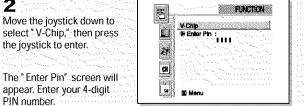
Note 2: The V-Chip will automatically block certain categories that are "more restrictive." For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)



How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

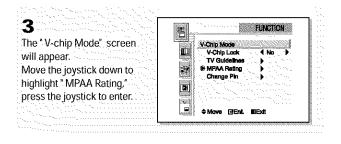
The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. (Eventually, movie videocassettes will be encoded with MPAA ratings.) When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).

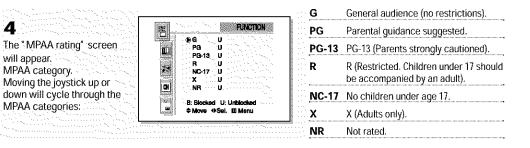




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4





While a particular category is highlighted, move the joystick to the right to activate it. A blinking letter ("U" or "B") will be displayed. Move the joystick up or down to select "U" or "B".

Move the joystick to the right to save the settings.

Note: The V-Chip will automatically block any category that is "more restrictive." For example, if you block the "PG-13" category, then " R," " NC-17," and " X" will automatically be blocked also.

How to Reset the TV after the V-Chip Blocks a Channel ("Emergency Escape")

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear: "Excessive rating."

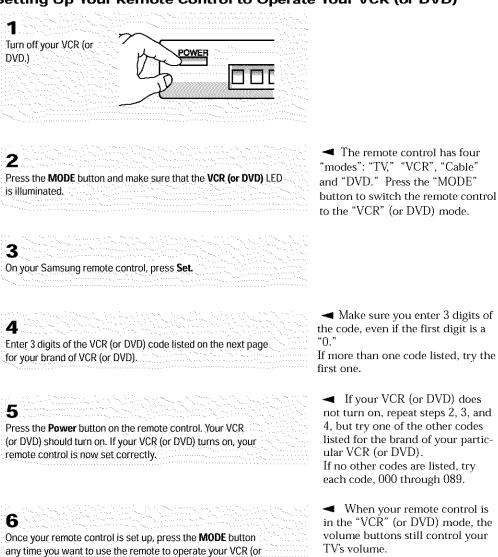
To resume normal viewing, tune to a different channel using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V.Chip button for an "emergency escape":

Press the V-chip button on the remote control. Enter your PIN number, and move the joystick to the right to temporarily disable the V-Chip Lock.

Customizing Your Remote Control

Your TV comes equipped with a "universal" remote control. In addition to controlling the TV, the universal remote can also operate a VCR, DVD and cable box (even if your VCR and cable box are made by manufacturers other than Samsung).

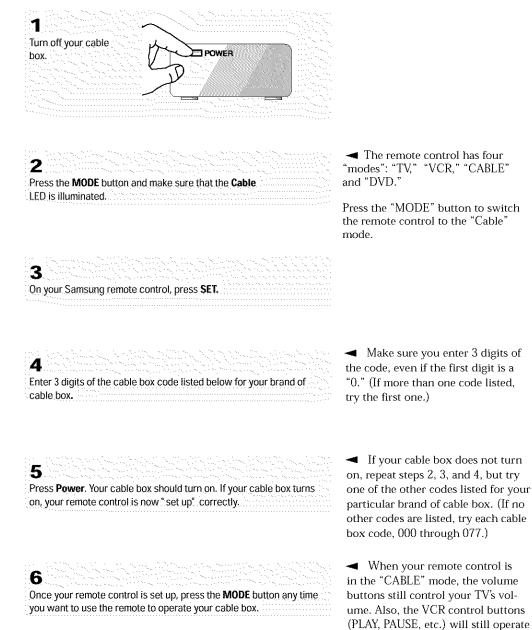
Setting Up Your Remote Control to Operate Your VCR (or DVD)



DVD).

When your remote is in the "TV" mode, the VCR control buttons (PLAY, PAUSE, etc.) will still operate your VCR.

Special Features



your VCR.

Setting Up Your Remote Control to Operate Your Cable Box

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Special Features

VCR Codes

s	Admiral 006, 079	KLH	073	RCA	000, 005, 007, 008, 028,
	Aiwa 015	LG 009, 014,	046,060	1	035, 037, 054, 069
	Akai 017, 022, 023, 027, 030	Lloyd	015	Samsung	007, 013, 022, 032, 042, 077
	Audio Dynamics 014, 016	Logik	031	Sansui	016
	Bell & Howell 002	LXI	015	Sanyo	002, 012
	Broksonic 010	Magnavox 008, 029,	053, 056	Scott	013, 041, 049, 068
	Candle 007, 009, 013, 045, 046, 052	Marantz 002, 008, 6	014, 016,	Sears	002, 005, 009, 012, 018,
	Cannon 008, 053	029, 030,	046, 061		019, 035, 043, 048
	Citizen 007, 009, 013, 045, 046, 052	Marta	009	Sharp	006, 027, 039, 045
	Colortyme 014	MEI	008	Shintom	017, 026, 031, 055
	Craig 007, 012	Memorex 008, 009,	012, 015	Signature	015
	Curtis-Mathes 000, 007, 008, 014,	MGA	027	Sony	017, 026, 038
	015, 046, 053, 064, 067	Midland	032	Sylvania	008, 015, 029, 053, 056
	Daewoo 013, 045, 076		005, 035	Symphoni	c 015
	DBX 014, 016	Mitsubishi 005, 027,	035, 040	Tandy	002, 015
	Dimensia 000	Montgomery ward	006	Tashiko	009
	Dynatech 015		007, 015	Tatung	030
	Electrohome 027	Multitech 007, 015,		Teac	015, 030, 069
	Emerson 008, 009, 010, 013, 015, 020, 023, 027,	NEC 002, 014, 016, 030, 046,	061,064	Technics	008
	034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070	Optimus	006	Ternika	008, 009, 015, 021
	Fisher 002, 012, 018, 019, 043, 048, 058	Panasonic 008, 053,	075, 077	TMK	067
	Funai 015		005, 035	Toshiba	005, 013, 019, 048, 049
	GE 000, 007, 008, 032, 053	Pentex Reserch+	046	Totevision	
	Go Video 007	Philco 008, 029,	,	Unitech	007
	Harman Kardon 014		008, 029	Vector Res	,
	Hitachi 005, 015, 035, 036	Pioneer 005, 016,	,	Victor	016
	Instant Replay 008	,	045, 052	Video Con	
	JC Penney 002, 005, 007, 008, 014,	ProScan	000	Videosonio	
	016, 030, 035, 051, 053	Quartz	002	Wards	005, 006, 007, 008, 009,
Γ	JCL 008, 002, 014, 016, 030, 046	•	008, 053		012, 013, 015, 027, 031, 035
	JVC 002, 014, 088, 089	Radio Shack/Realistic 002,		Yamaha	002, 014, 016, 030, 046
	Kenwood 002, 014, 016, 030, 046	009, 012, 015, 019, 027,	045, 053	Zenith	011, 017, 026, 079
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Cable Box

Anvision	007, 008	NSC	009	Signature	046
S Cablestar	007, 008	Oak	016, 038	Sprucer	027
Eagle	007, 008	Osk Sigma	016	Starcom	046
Eastern Int.	002	Panasonic	003, 027, 039, 061,	Stargate 2000	058
General Instrumen	t 046		073, 074	Sylvania	011, 059
GI 004, 00	5, 015, 023, 024,	Philips	007, 008, 019, 021, 026,	Texscan	011, 059
025, 030, 03	36, 067, 068, 069	028	8, 029, 032, 033, 040, 041	Tocom 017, 021,	049, 050, 055, 073
Hamlin 003, 03	l2, 013, 034, 048	Pioneer	018, 020, 044, 074, 077	Unika	031, 032, 041
Hitachi	037, 043, 046	Randtek	007, 008	Universal	051, 052
Jerroid 004, 00	5, 015, 023, 024,	RCA	000, 027, 066	Viewster 007, 0	08, 019, 021, 026,
025, 030, 03	36, 046, 062, 065	Regal	003, 012, 013	028, 029, 0	032, 033, 040, 041
Macom	037, 043	Regency	002, 033	Warner Amex	0 11
Magnavox 00	7, 008, 019, 021,	SA	070, 071, 072	Zenith 0	14, 042, 057, 061,
026, 028, 029, 0	32, 033, 040, 041	Samsung	044, 003, 022, 063, 064		075, 076

DVD Codes

Philips	001
Proscan	002
RCA	002
Toshiba	003
Panasonic	004
Sony	008
Samsung	000

Chapter Five

Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest service center.

Identifying Problems

Problem	Possible Solution
Poor picture.	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna.
No picture or sound.	Try another channel. Press the TV/Video button. Make sure the TV is plugged in. Check the antenna connections.
No color, wrong colors or tints.	Make sure the program is broadcast in color. Adjust the picture settings.
Picture rolls vertically.	Adjust the antenna. Check all wire connections.
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.
Your remote control does not operate your TV.	Press the "MODE" button to put your remote control in the "TV" mode.
The TV won't turn on.	Make sure the wall outlet is working.

Note: If you watch a still image or the screen in the 16:9 aspect ratio format for a long time, images may be burned onto the screen.

Cleaning and Maintaining Your TV

With proper care, your TV unit will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

Placement

- Do not place the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

Liquids

• Do not handle liquids near or on the TV. Liquids that spill into it can cause serious damage.

Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

Temperature

• If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies

Specifications

Model	PCL545R / PCL5415R / PCL6215R		
Voltage	AC 120V		
Frequency of Operation	60Hz		
Power Consumption	230 Watts		
Dimensions	PCL545R / PCL5415R : 1161 x 605 x 1400mm ; 45.70 x 23.82 x 55.12 inches		
	PCL6215R : 1319 x 705 x 1529mm ; 51.93 x 27.76 x 60.20 inches		
Weight	PCL545R / PCL5415R : 68 Kg; 149.92 lbs		
	PCL6215R: 88 Kg;194.00 lbs		