

**SAMSUNG**

TSK2792F/TSK2790F  
TSK3292F/TSK3290F  
TSK3092WF/TSL3294HF  
TSL3095WHF/TSL3295HF  
TSL2795HF

**COLOR TELEVISION**

**SAMSUNG**  
ELECTRONICS



**Owner's  
Instructions**

# **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 éviter les chocs électriques, 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.**


<Option>

As an ENERGY STAR Partner,  
Samsung Electronics America, Inc. has determined that this product or product model meets the ENERGY STAR guidelines for energy efficiency.

# Thank You for Choosing Samsung

Thank you for choosing Samsung! Your new Samsung 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.

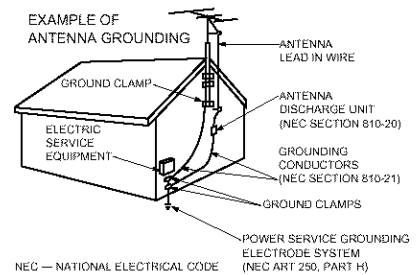
## Important Safety Information

 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.



- 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.**

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# Chapter One

## YOUR NEW TV

### List of Features

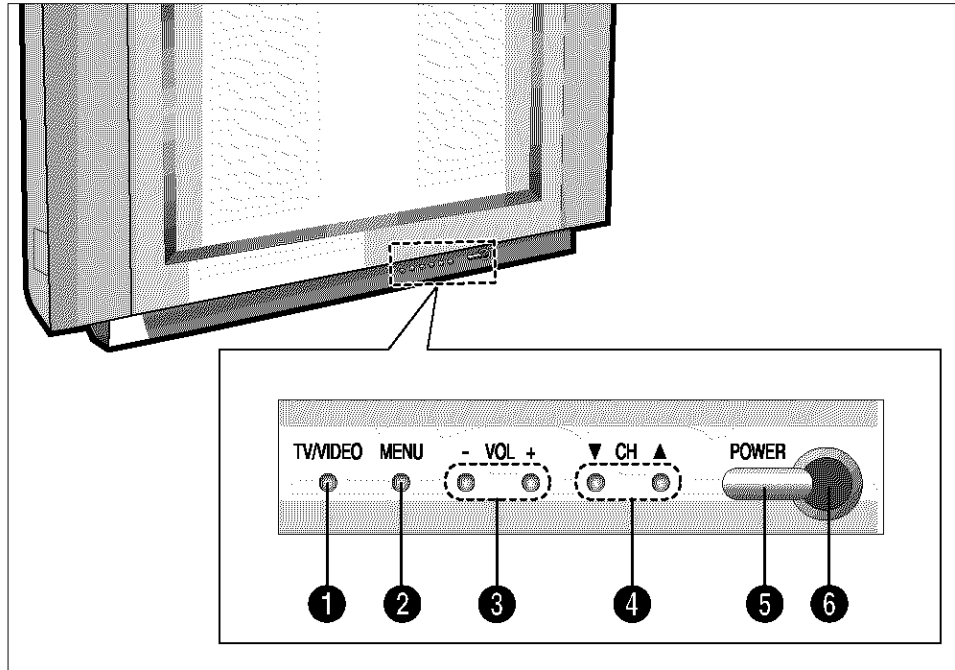
Your TV was designed with the latest technology. This TV is a high-performance unit that includes the following special features:

- 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
- Double screen
- Headphone jack for private listening
- 16:9 letter box format available depending upon source

## 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.



**1 TV/VIDEO**

Press this button to display a menu of all the available signal sources. When the menu appears, use the CH buttons to highlight a particular source, and then press the VOL+ button to select it.

**2 MENU**

Press to see an on-screen menu of your TV's features.

**3 VOLUME - , +**

Press to increase or decrease the volume. Also used to select items on the on-screen menu.

**4 CH ▼ and CH ▲**

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

**5 POWER**

Press to turn the TV on and off.

**6 Remote Control Sensor**

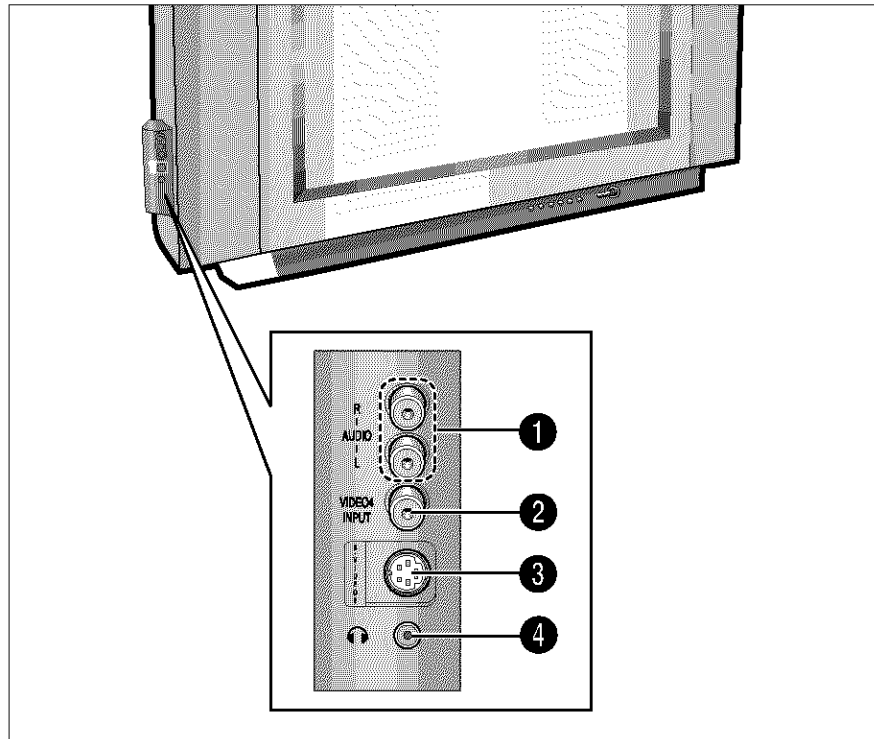
Aim the remote control towards this spot on the TV.



### Side Panel Jacks

You can use the side 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 – 2.9.)

The TV illustration shown does not necessarily match the design of your TV set.



**❶ AUDIO IN jacks**

Used to connect the audio signals from a camcorder or video game.

**❷ VIDEO IN jack**

Used to connect a video signal from a camcorder or a video game.

**❸ SUPER VIDEO IN jack**

Used to connect an S-Video signal from a camcorder or a video game.

**❹ HEADPHONE JACK**

Connect a set of external headphones to this jack for private listening.

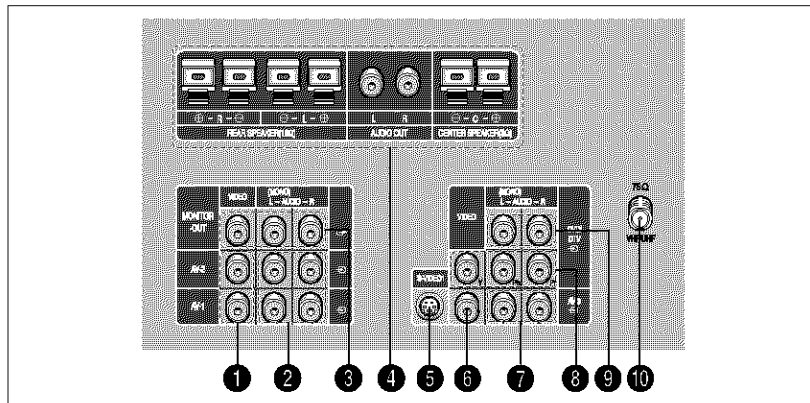
## YOUR NEW TV

### 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 laserdisc player.

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

For more information on connecting equipment, see pages 2.1 – 2.9.



#### 1, 6 VIDEO INPUTS

Video signals from VCRs, laserdisc players and similar devices (Three sets are available: AV1, AV2 and AV3).

#### 2, 7 AUDIO INPUTS

Audio signals from VCRs, laserdisc players and similar devices.

#### 3 AUDIO-VIDEO MONITOR OUTPUTS

Connect to the audio/video input jacks of a recording VCR.

Note: The monitor out does not operate in DVD or DTV mode.

#### 4 SURROUND OUTPUTS

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

Here are two ways to connect an audio amplifier:

1. TV - amp - speaker
2. TV - speaker(amp built-in)

#### 5 SUPER VIDEO IN

S-Video signal from an S-VHS VCR or DVD player.

#### 8 DVD & DTV VIDEO INPUTS

Connects component video from a DVD player & Set-Top Box.

#### 9 DVD & DTV AUDIO INPUTS

Connect to the audio output jacks of a DVD player or SET-TOP BOX.

#### 10 VHF/UHF

Connect to an antenna or to a cable TV system.

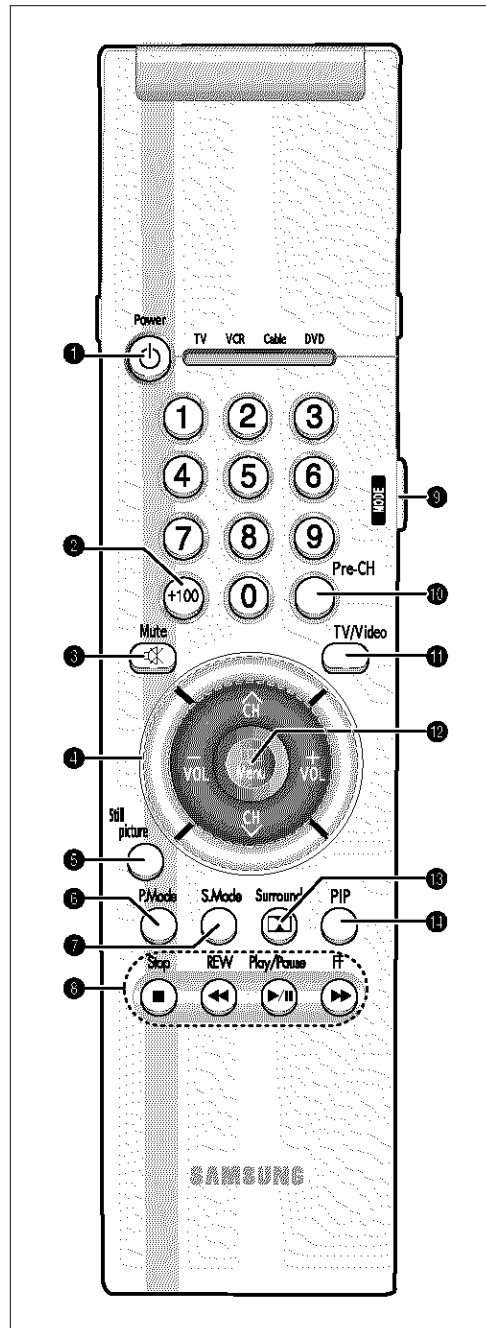
## YOUR NEW TV

### 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 4.1 for details.

- 1 Power**  
Turns the TV on and off.
- 2 +100**  
Press to select channels over 100. For example, to select channel 121, press "+100," then press "2" and "1."
- 3 Mute**  
Press to temporarily cut off the sound.
- 4 CH▲ and CH▼ (Channel Up/Down)**  
Press CH▲ or CH▼ to change channels. (Also used to highlight selections on the on-screen menus.)  
  
**VOL -, VOL +**  
Press increase or decrease the volume. (Also used to make selections on the on-screen menus.)
- 5 Still picture**  
Press to stop the action during a particular scene. Press again to resume normal video.
- 6 P.Mode**  
Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings).
- 7 S.Mode**  
Adjust the TV sound by selecting one of the preset factory settings (or select your personal, customized sound settings).
- 8 VCR controls**  
**Stop**  
Press to stop a tape in your VCR.  
**REW (Rewind)**  
Press to rewind a tape.  
**Play/Pause**  
Press to play or pause the tape.  
**FF (Fast Forward)**  
Press to fast forward a tape.



- 9 MODE**  
Selects a target device to be controlled by the Samsung remote control (i.e., TV, VCR, Cable box, or DVD).
- 10 Pre-CH**  
Tunes to the previous channel.
- 11 TV/Video**  
Press to display all of the available video sources (i.e., Antenna/cable, VCR, DVD, Video 1-4 and S-Video 1-2).
- 12 Menu**  
Displays the main on-screen menu.
- 13 Surround**  
Selects one of Phantom modes (Off, Normal, Phantom or Wide).
- 14 PIP**  
Activates picture in picture.

# YOUR NEW TV

## Remote Control (continued)

### 15 Display

Press to display the current channel and the audio-video settings.

### 16 Sleep

Press to select a preset time interval for automatic shutoff.

### 17 Aspect

Press to change the screen size.

### 18 V.chip (Option)

Press to set up and activate the parental locks.

### 19 PIP Controls

#### Locate

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

#### Scan

Press to memorize (scan) the available channels.

#### Source

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

#### Swap

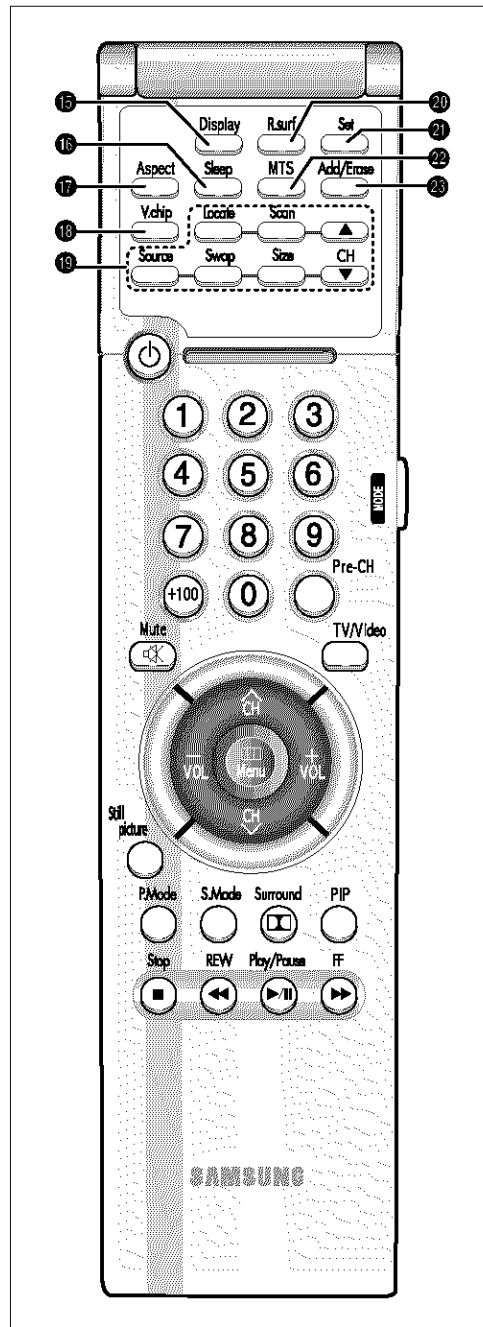
Exchanges the video signal that is currently displayed on the main screen with the signal in the PIP window.

#### Size

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

#### CH

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



### 20 R.surf

Press the R.surf button to automatically return to a preferred channel after a user-preset time delay.

### 21 Set

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

### 22 MTS (Multichannel Television Stereo)

Press to choose stereo, mono or Separate Audio Program (SAP broadcast).

### 23 Add/Erase

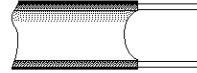
Press to add or erase channels in the TV's memory.

# 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.



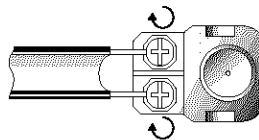
If you have two antennas, see “Separate VHF and UHF Antennas,” on page 2.2.

#### 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.

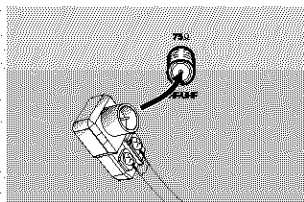
**1**

Place the wires from the twin leads under the screws on the 300-75 ohm adaptor (not supplied). Use a screwdriver to tighten the screws.



**2**

Plug the adaptor into the VHF/UHF terminal on the bottom of the back panel.

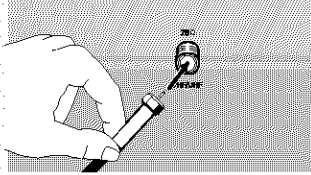


## INSTALLATION

### Antennas with 75-ohm Round Leads

**1**

Plug the antenna lead into the VHF/UHF terminal on the bottom of the back panel.

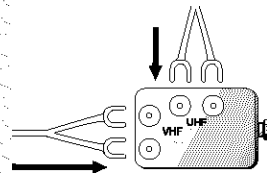


### Separate VHF and UHF Antennas

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).

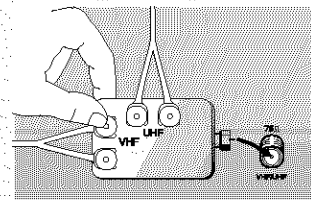
**1**

Connect both antenna leads to the combiner.



**2**

Plug the combiner into the VHF/UHF terminal on the bottom of the rear panel.



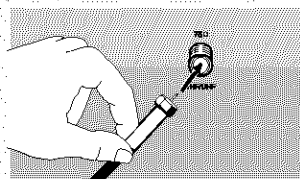
### Connecting Cable TV

To connect to a cable TV system, follow the instructions below.

#### Cable without a Cable Box

**1**

Plug the incoming cable into the VHF/UHF antenna terminal on back of the TV.

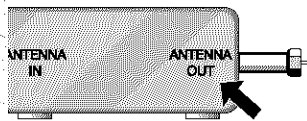


◀ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

# INSTALLATION

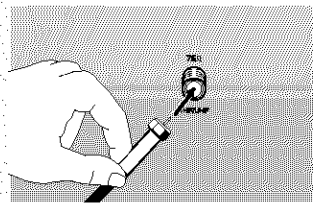
## Connecting to a Cable Box that Descrambles All Channels

- 1** Find the cable that is connected to the ANTENNA OUT terminal on your cable box.



◀ This terminal might be labeled "ANT OUT," "VHF OUT," or simply, "OUT."

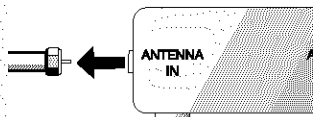
- 2** Connect the other end of this cable to the VHF/UHF antenna terminal on the back of the TV.



## Connecting to a Cable Box that Descrambles Some Channels

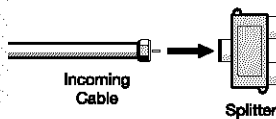
If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of coaxial cable. (These items are available at most electronics stores.)

- 1** Find and disconnect the cable that is connected to the ANTENNA IN terminal on your cable box.

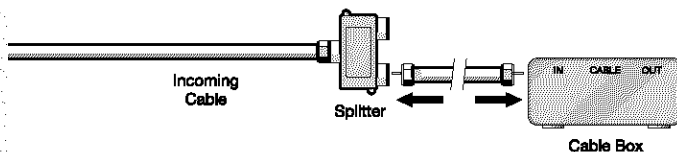


◀ This terminal might be labeled "ANT IN," "VHF IN," or simply, "IN."

- 2** Connect this cable to a two-way splitter.



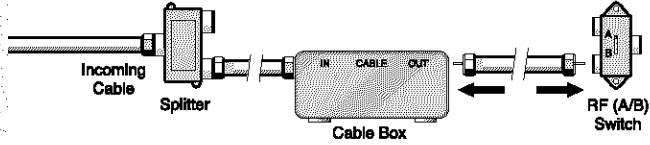
- 3** Connect a coaxial cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.



## INSTALLATION

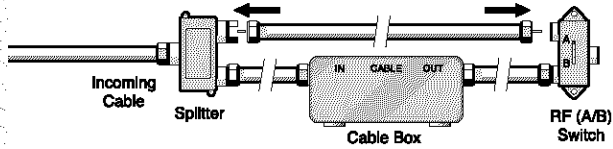
**4**

Connect a coaxial cable between the ANTENNA OUT terminal on the cable box and the B-IN terminal on the A/B switch.



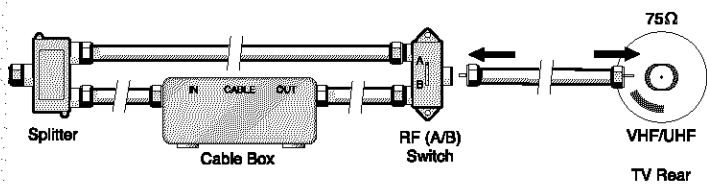
**5**

Connect another cable between the other OUT terminal on the splitter and the A-IN terminal on the RF (A/B) switch.



**6**

Connect the last coaxial cable between the OUT terminal on the RF (A/B) switch and the VHF/UHF terminal on the rear of the TV.



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.)

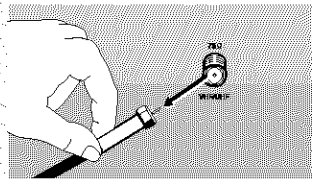


# INSTALLATION

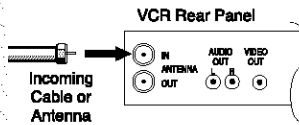
## Connecting a VCR

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.

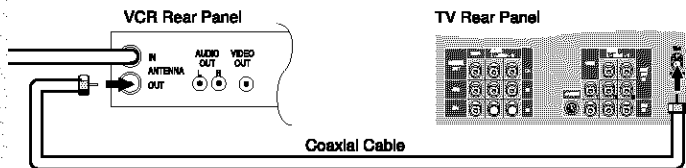
- 1**  
Unplug the cable or antenna from the back of the TV.



- 2**  
Connect the cable or antenna to the ANTENNA IN terminal on the back of the VCR.

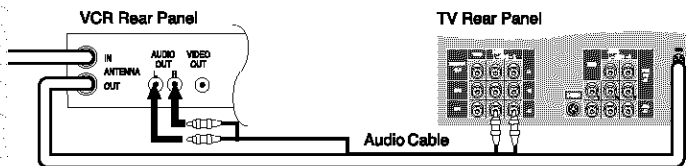


- 3**  
Connect a coaxial cable between the ANTENNA OUT terminal on the VCR and the antenna terminal on the TV.



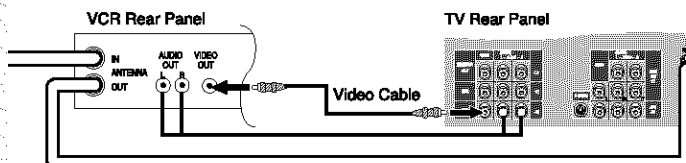
A coaxial cable is usually included with a VCR. (If not, check your local electronics store).

- 4**  
Connect a set of audio cables between the AUDIO OUT jacks on the VCR and the AUDIO jacks on the TV.



If you have a "mono" (non-stereo) VCR, use the Y-connector (not supplied) to hook up to the left and right audio input jacks of the TV. If your VCR is stereo, you must connect two cables.

- 5**  
Connect a video cable between the VIDEO OUT jack on the VCR and the VIDEO jack on the TV.



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

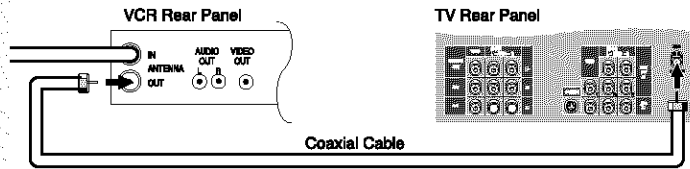
## INSTALLATION

### Connecting an S-VHS VCR

Your Samsung TV can be connected to an S-Video signal from an S-VHS VCR. (This connection delivers a better picture as compared to a standard VHS VCR.)

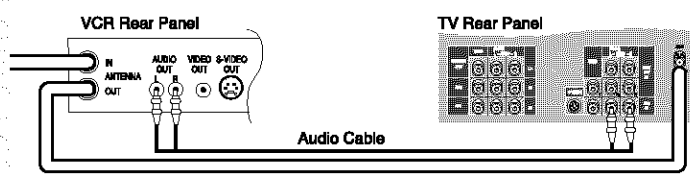
**1**

To begin, follow steps 1-3 in the previous section to connect the antenna or cable to your VCR and your TV.



**2**

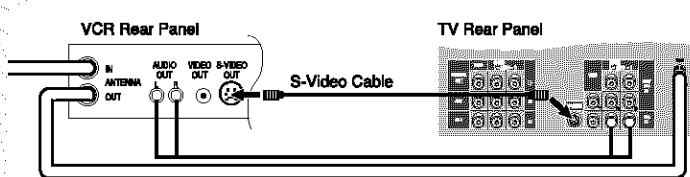
Connect a set of audio cables between the AUDIO OUT jacks on the VCR and the AUDIO INPUT 3 jacks on the TV.



Make sure the jacks you are using are underneath the number "3."

**3**

Connect an S-video cable between the S-VIDEO OUT jack on the VCR and the S-VIDEO INPUT jack on the TV.



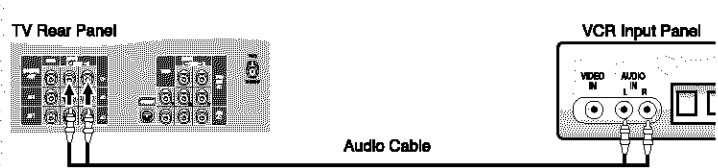
An S-video cable is usually included with an S-VHS VCR. (If not, check your local electronics store.)

### 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:

**1**

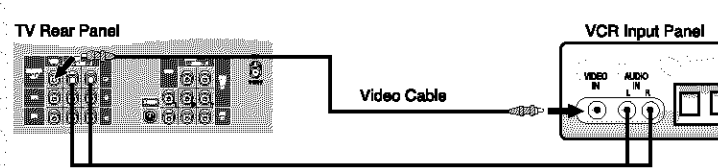
Connect a set of audio cables between the AUDIO OUT jacks on the TV and the AUDIO IN jacks on the VCR.



(The VCR input jacks might be either on the front or on back of the VCR.)

**2**

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



Refer to your VCR's instructions for more information about how to record using this kind of connection.

## INSTALLATION

### Connecting a DVD Player

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

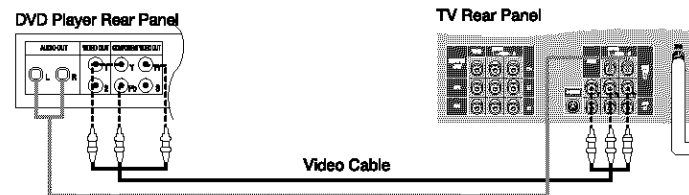
**1**

Connect a set of audio cables between the AUDIO INPUT 2 jacks on the TV and the AUDIO OUT jacks on the DVD player.



**2**

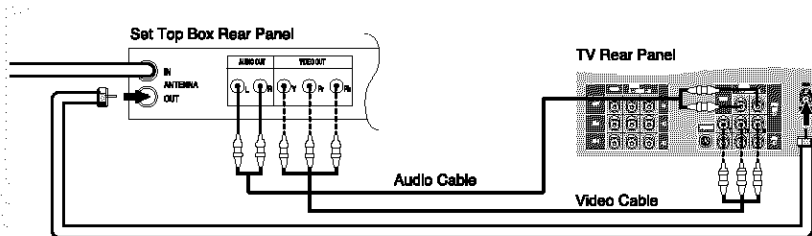
Connect a video cable between the DVD-IN (Y, Pb, Pr) jacks on the TV and the DVD-OUT (Y, Pb, Pr) jacks on the DVD player.



Note: For an explanation of Component video, see your DVD player's owner's manual.

### Connecting a Digital TV Set-Top Box

Connect the Y, Pb, and Pr video outputs of the set-top box to their corresponding inputs on the TV. Next, connect the Left and Right audio from the set-top box to the corresponding L and R terminals on the TV. (The connections for a typical set-top box are shown below.)



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

Notes:

DVD menu mode selection- Intended for standard interlaced source material at 480i such as a DVD Player (Non Progressive Scan).

DTV menu mode selection- Intended for 480p or 1080i source material. Use this menu option for a Progressive Scan DVD Player that outputs 480p (refer to page 3.17).

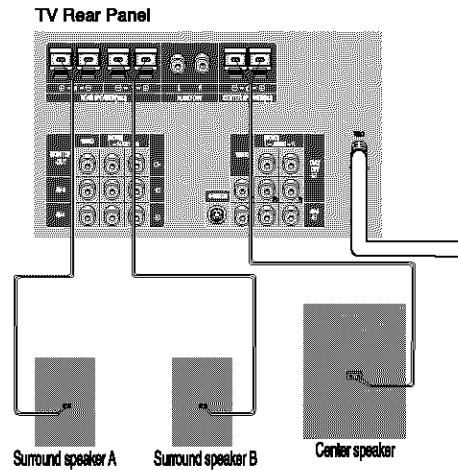
When a signal is connected to the DTV/DVD Component Video input, the external input select menu (On-Screen Display) will show both DVD and DTV as "connected".

When a DTV (or DVD) signal is connected to the DTV/DVD Component Video Input and at the same time DVD (or DTV) is selected as the external input, the picture will show a double or skewed image. To resolve this problem, please select DTV (or DVD) as the external input on the select menu (On Screen Display).

## Connecting a Surround Speakers

**1**

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

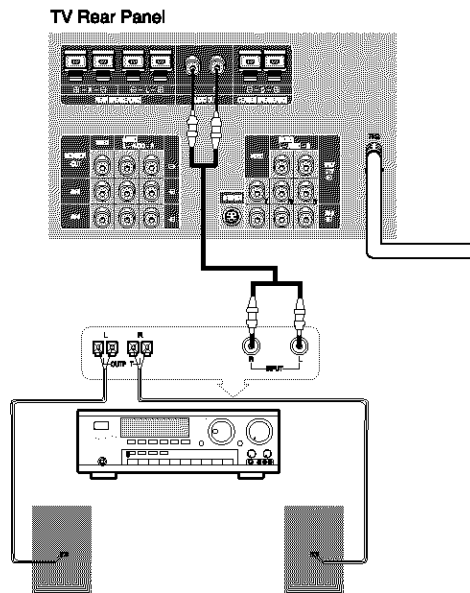


## Connecting a Speakers (Variable Audio Output)

**1**

The "VARIABLE AUDIO OUT" terminals cannot be used for external speakers. You must hook them up to an amplifier.

When an audio amplifier is connected to the "VARIABLE AUDIO OUT" terminals:  
Decrease the gain (volume) of the audio amplifier, and adjust the volume level with the volume control on the TV.  
(See page 4.14)

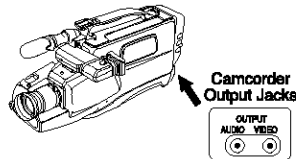


## INSTALLATION

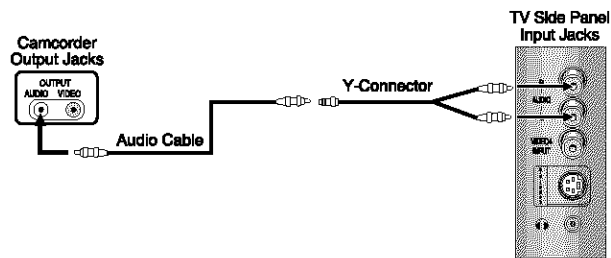
### Connecting a Camcorder

The side 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 “Viewing a VCR or Camcorder Tape” on page 3.17)

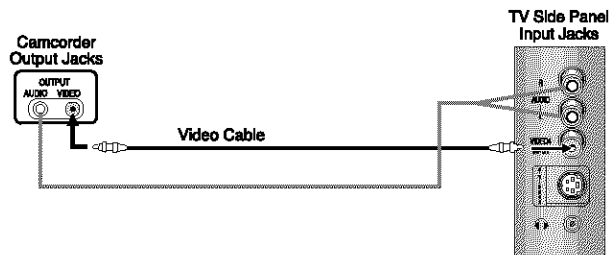
- 1** Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.



- 2** Connect an audio cable between the AUDIO OUTPUT jack on the camcorder and the AUDIO terminals on the side of the TV.



- 3** Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the VIDEO terminal on the side of the TV.

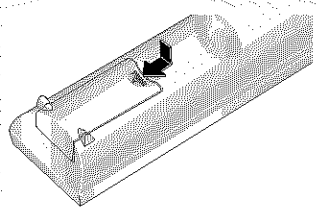


The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to connect a set of two cables.

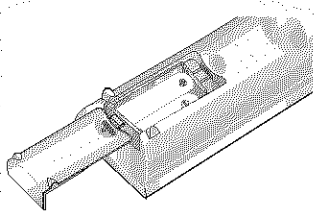
## INSTALLATION

### Installing Batteries in the Remote Control

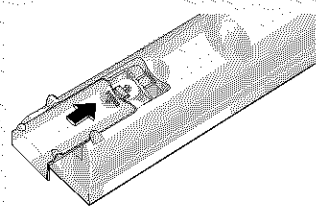
- 1**  
Slide the cover out completely.



- 2**  
Install two AAA size batteries.



- 3**  
Replace the cover.



◀ 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** button.

You can also use the Power button on the front panel.

### Plug & Play Feature

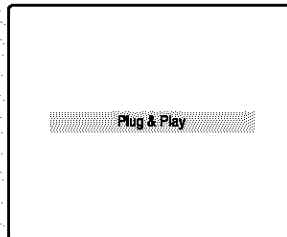
When the TV is initially powered On, five basic customer settings proceed automatically and subsequently: Setting the language, video signal source, Ant. input check, Auto program, Clock.

**1**

Press the **Power** button on the remote control.

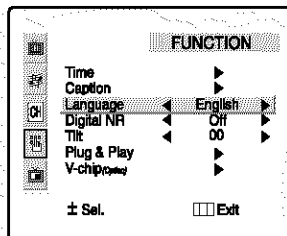
The message "Plug & Play" is displayed.

It flickers for a little while and then the "Language" menu is automatically displayed.



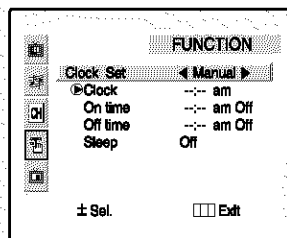
**2**

Press the **VOL+** or **VOL-** buttons to select the desired language. Press the Menu button to enter the language, and then the "Clock set" menu is automatically displayed.



**3**

Press the **VOL+** or **VOL-** buttons to move to the hour or minute. Set the hour or minute by pressing the **CH▲** or **CH▼** buttons. (refer to "Setting the clock" on page 3.10.)

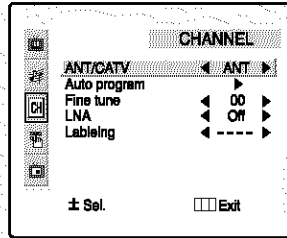


*continued...*

## OPERATION

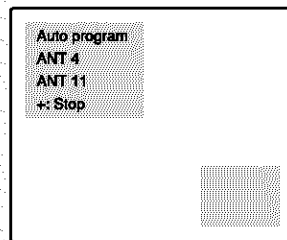
**4**

Press the **VOL+** or **VOL-** buttons to select the desired video signal source. Press the **Menu** button to enter the video signal source, and then "Ant. Input check" is automatically displayed.



**5**

Make sure that the antenna is connected to the TV. Press the **VOL+** or **VOL-** buttons. The "Auto Program" is active. Press the **Menu** button to skip. (refer to "Auto program" on page 3.6.)



**6**

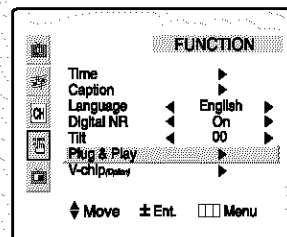
The message "Enjoy viewing your new TV" is displayed.



**7**

**If you want to reset this feature**

- (1) Press the **Menu** button.
- (2) Press the **CH▼** button three times to highlight the FUNCTION menu and press the **VOL+** button.
- (3) Press the **CH▼** button five times to select the Plug & Play and press the **VOL+** button.  
The message "Plug & Play" is displayed.



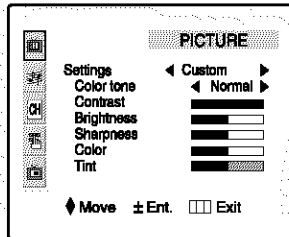


## Viewing the Menus and On-Screen Displays

### Viewing the Menus

**1**  
With the power on, press the **Menu** button.

The main menu appears on the screen. Its left side has five icons: PICTURE, SOUND, CHANNEL, FUNCTION and DOUBLE SCREEN.



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

**2**  
Use the **CH▲** and **CH▼** buttons to highlight one of the 5 icons (the icons blink when highlighted). Then press **VOL+** to access the icon's sub-menu.

**3**  
Press the **Menu** button to exit.

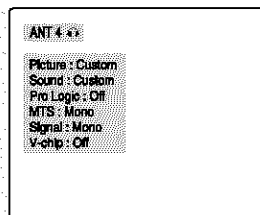
◀ You can also use the **Menu**, **CHANNEL**, and **VOLUME** buttons on the control panel of the TV to make selections.

### Viewing the Display

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

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

The TV will display the channel, the type of sound, and the status of certain picture and sound settings.

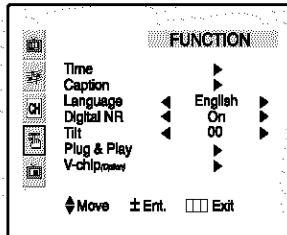


◀ The on-screen displays disappear after about ten seconds.

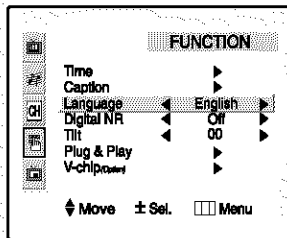
\* *V-chip Option*

## Selecting a Menu Language

- 1**  
Press the **Menu** button to display the menu.  
  
Press the **CH ▾** button twice to select "FUNCTION."



- 2**  
Press the **VOL +** button to display the "FUNCTION" menu.  
  
Press the **CH ▾** button twice to select Language.



- 3**  
Press the **VOL +** button to select the appropriate language: English, Spanish, or French.

- 4**  
Press the **Menu** button twice to exit.

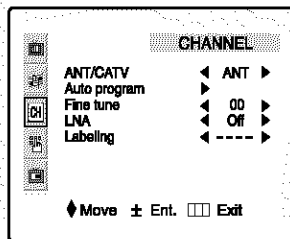
## Memorizing the Channels

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 ▲ and CH ▼ 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

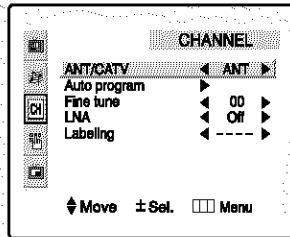
Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

- 1**  
Press the **Menu** button to display the menu.

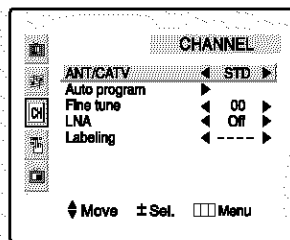


- 2**  
Press the **CH ▼** button twice to highlight "CHANNEL".

- 3**  
Press the **VOL +** button. "ANT/CATV" will be selected.



- 4**  
Repeatedly press the **VOL +** button to cycle through these choices: ANT (antenna) STD, HRC or IRC (all cable TV).



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).

## OPERATION

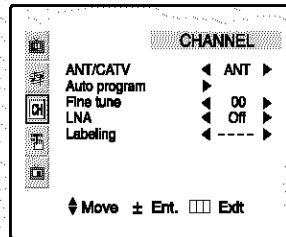
### Storing Channels in Memory (Automatic Method)

**1**

First, select the correct signal source (ANT, STD, HRC, IRC). See steps 1-4 on previous page.

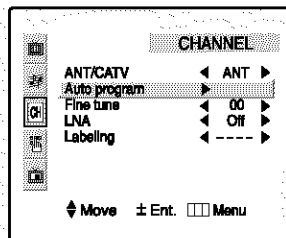
Press the **Menu** button, then press the **CH ▼** button twice to highlight "CHANNEL."

Press the **VOL +** button to access the CHANNEL sub-menu.



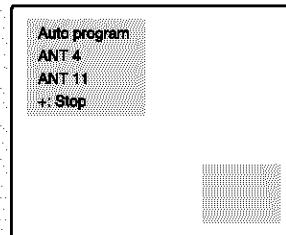
**2**

Press the **CH ▼** button to select the "Auto program".



**3**

Press the **VOL +** button. The TV will begin memorizing all of the available channels.



**4**

After all the available channels are stored, the Auto program menu reappears. Press the **Menu** button three times to exit.

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

◀ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes. Press VOL+ at any time to interrupt the memorization process and return to the CHANNEL menu.

### Adding and Erasing Channels (Manual Method)

**1**

Use the number buttons to directly select the channel that will be added or erased.

**2**

Press the **Add/Erase** button:

Repeatedly pressing this button will alternate between "Channel added" and "Channel erased."

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

## Changing Channels

### Using the Channel Buttons

**1**

Press the **CH ▲** or **CH ▼** buttons to change channels.

When you press the **CH ▲** or **CH ▼** buttons, 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.

### Directly Accessing Channels

Use the number buttons to quickly tune to any channel.

**1**

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 Pre-CH Button to select the Previous Channel

**1**

Press the **Pre-CH** button.

The TV will switch to the last channel viewed.

To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the Pre-CH button to quickly alternate between them.

## Adjusting the Volume

**1**

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.

**1**

Press **Mute** and the sound cuts off.

The word "Mute" will appear in the lower-left corner of the screen.

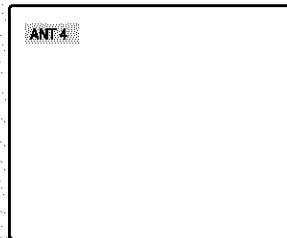
**2**

To turn mute off, press the **Mute** button again, or simply press either the **VOL -** or **VOL +** button.

## 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.

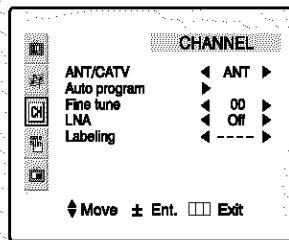
- 1**  
Press the **CH ▲** or **CH ▼** button to tune to the channel that will be labeled.



- 2**  
Press the **Menu** button to display the menu.

Press the **CH ▼** button twice to highlight "CHANNEL".

Press the **VOL +** button.

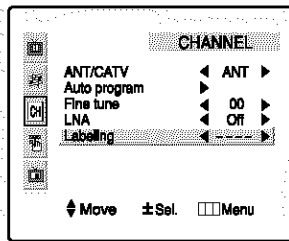


◀ Note: You cannot select "Labeling" in the A/V mode.

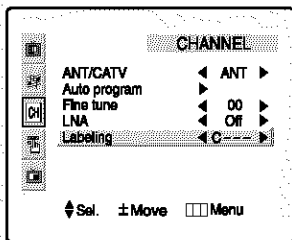
- 3**  
Press the **CH ▼** button five times to select "Labeling".

Press the **VOL +** button to begin labeling. The left-most field will be highlighted.

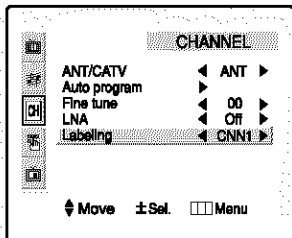
(Each label has four fields. See top paragraph.)



- 4**  
Press the **CH ▲** or **CH ▼** button to select a letter, number, "\*", or a blank. (Pressing the **CH ▲** button results in this sequence: A, B, ..., Z, \*, blank, 0, 1, ..., 9).



- 5**  
Press the **VOL +** button to switch to the next field, which will be highlighted. Select a second letter or digit using the **CH ▲** and **CH ▼** buttons, as above.  
Repeat the process to select the last two digits.



Press **Menu** twice to set the label and clear the menus from the screen.

## 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.)

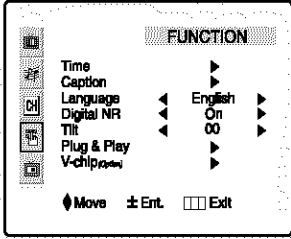
### Option 1: Setting the Clock Manually

**1**

Press the **Menu** button to display the on-screen menu.

Press the **CH ▼** button three times to select "FUNCTION."

Press the **VOL +** button.

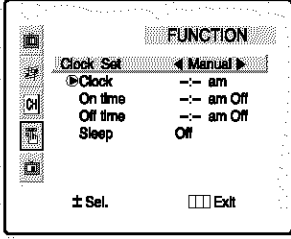


The screenshot shows a menu titled "FUNCTION" with the following options: Time, Caption, Language, Digital NR, Tilt, Plug & Play, and V-chip. The "Language" option is currently selected, and it is set to "English On". Navigation arrows are visible on the left and right sides of the menu. At the bottom, there are controls for "Move", "Ent.", and "Exit".

**2**

Press the **VOL +** button: The Time menu will appear on the screen, and "Clock set" will be selected.

Press the **CH ▼** button to select "Clock"



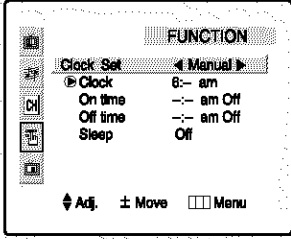
The screenshot shows the "FUNCTION" menu with "Clock Set" selected. Below it, there are options for "Clock", "On time", "Off time", and "Sleep". The "Clock" option is currently selected, and it is set to "Manual". Navigation arrows are visible on the left and right sides of the menu. At the bottom, there are controls for "Sel." and "Exit".

**3**

Press the **VOL +** button again (the hours digits will be highlighted).

Press the **CH ▲** or **CH ▼** buttons repeatedly until the correct hour appears.

After the hour is entered, press the **VOL +** button. (at this point the minutes digits will be highlighted).



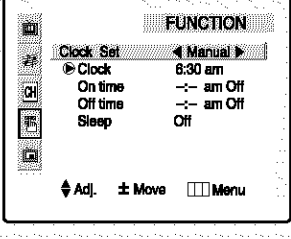
The screenshot shows the "FUNCTION" menu with "Clock Set" selected. Below it, there are options for "Clock", "On time", "Off time", and "Sleep". The "Clock" option is currently selected, and it is set to "8-- am". Navigation arrows are visible on the left and right sides of the menu. At the bottom, there are controls for "Adj.", "Move", and "Menu".

**4**

Press the **CH ▲** or **CH ▼** buttons to select the correct minutes.

After selecting the correct minutes, press the **VOL +** button.

Press the **Menu** button three times to exit.



The screenshot shows the "FUNCTION" menu with "Clock Set" selected. Below it, there are options for "Clock", "On time", "Off time", and "Sleep". The "Clock" option is currently selected, and it is set to "6:30 am". Navigation arrows are visible on the left and right sides of the menu. At the bottom, there are controls for "Adj.", "Move", and "Menu".

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

You can change the hours by pressing the **CH ▲** or **CH ▼** buttons repeatedly (or by holding down either of these buttons).

◀ The time will appear every time you press the Display button.



## OPERATION

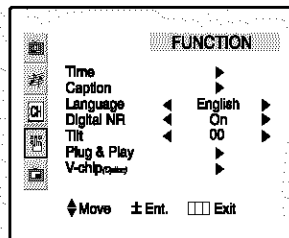
### Option 2: Using the Local PBS Channel to Automatically Set the TV Clock

#### 1

Press the **Menu** button to display the menu.

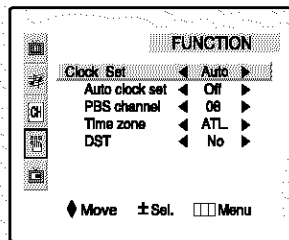
Press the **CH** ▼ button three times to highlight "FUNCTION."

Press the **VOL +** button.



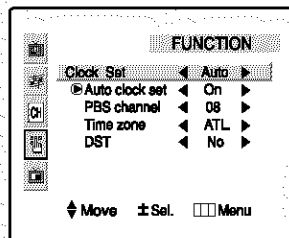
#### 2

Press the **VOL +** button to select Clock set "Auto".



#### 3

Press the **CH** ▼ button to select "Auto clock set" and press the **VOL +** button to select Auto clock set "On".

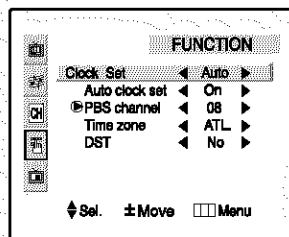


#### 4

Press the **CH** ▼ button to select "PBS channel". While "PBS channel" is selected, press the **VOL +** button.

Press the **CH** ▼ button to select your local PBS channel.

Press the **VOL +** button to set.

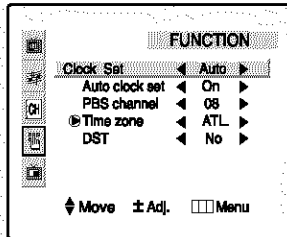


*continued...*

## OPERATION

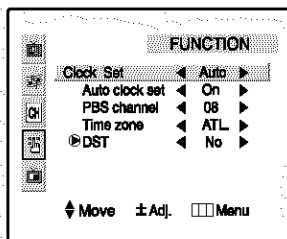
**5**

Press the **CH ▾** button to select "Time zone". While "Time zone" is selected, press either the **VOL+** or **VOL-** buttons to change the Time zone. Sequence: ATL, EAST, CEN., MTN, PAC, ALAS, HAW.



**6**

Press the **CH ▾** button to select "DST" (Daylight Saving Time). While "DST" is selected, press **VOL+** or **VOL-** buttons to indicate "Yes" or "No". The clock is set. Press the **Menu** button three times to exit.



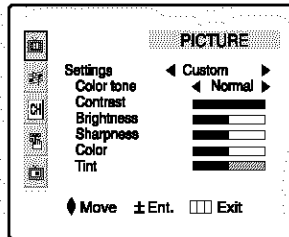
## Customizing the Picture

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.)

**1**

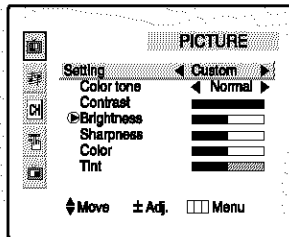
Press the **Menu** button to display the menu.

The PICTURE icon will be highlighted (starts blinking).



**2**

Press the **CH ▼** or **CH ▲** buttons to highlight a particular item.

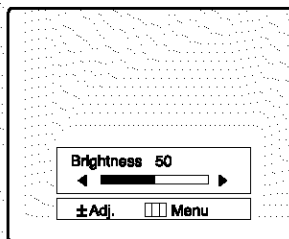


◀ The customer can select “Normal”, “Warm”, or “Cool” according to personal preference.

**3**

Press the **VOL -** or **VOL +** buttons to increase or decrease the value of a particular item. For example, if you select “Brightness,” pressing **VOL +** increases it.

Press the **Menu** button twice to exit.



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

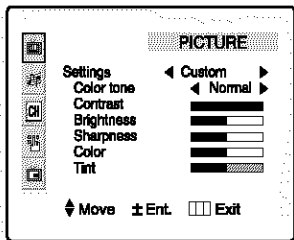
## Using Automatic Picture Settings

Your TV has two automatic picture settings (“Standard” and “Mild”) that are preset at the factory. You can activate either Standard 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.

**1**

Press the **Menu** button to display the menu. PICTURE icon will be highlighted (blinking).

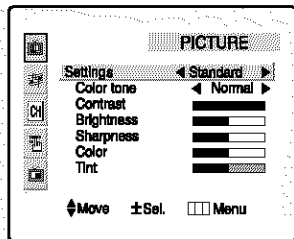
Press the **VOL +** button to display the PICTURE menu.



The screenshot shows the TV's PICTURE menu. At the top, the word 'PICTURE' is displayed in a box. Below it, the 'Settings' menu is open, and 'Custom' is selected with left and right arrow keys. Under 'Custom', 'Normal' is selected with left and right arrow keys. Below the menu items are five horizontal sliders for Contrast, Brightness, Sharpness, Color, and Tint. At the bottom of the screen, there are three icons: a left arrow, a right arrow, and a square, with the labels 'Move', '± Ent.', and 'Exit' respectively.

**2**

Press the **VOL -** or **VOL +** buttons to select the “Standard,” “Mild,” or “Custom” picture setting.



The screenshot shows the TV's PICTURE menu. At the top, the word 'PICTURE' is displayed in a box. Below it, the 'Settings' menu is open, and 'Standard' is selected with left and right arrow keys. Under 'Standard', 'Normal' is selected with left and right arrow keys. Below the menu items are five horizontal sliders for Contrast, Brightness, Sharpness, Color, and Tint. At the bottom of the screen, there are three icons: a left arrow, a right arrow, and a square, with the labels 'Move', '± Sel.', and 'Menu' respectively.

**3**

Alternate method:  
Simply press the **P.Mode** button on the remote control to select one of the standard picture settings.

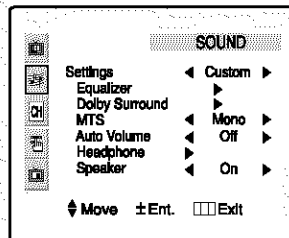
- Choose *Standard* for the standard factory settings.
- Choose *Mild* (“Mild Contrast”) when viewing the TV in low light, or when playing video games.
- Choose *Custom* if you want to adjust the settings according to personal preference (see “Customizing the Picture, page 3.13).

## Customizing the Sound

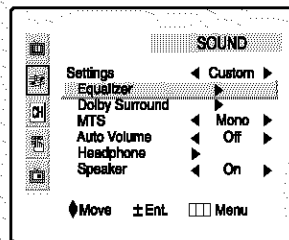
The sound settings can be adjusted to suit your personal preferences. (Alternatively, you can use one of the “automatic” settings. See next page.)

**1**  
Press the **Menu** button to display the menu.

Press the **CH ▼** button to highlight the **SOUND** icon (starts blinking).



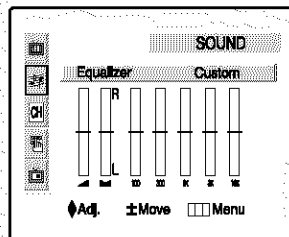
**2**  
Press the **CH ▼** button to select “Equalizer” and press the **VOL+** button.



**3**  
Press the **VOL -** or **VOL +** buttons to highlight a particular item to be changed.

Press the **CH ▼** or **CH ▲** buttons to increase or decrease the value of a particular item.

Press the **Menu** button twice to exit.



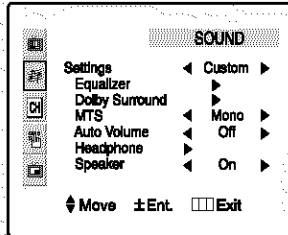
## Using Automatic Sound Settings

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 "Equalizer," which automatically recalls your personalized sound settings.

**1**

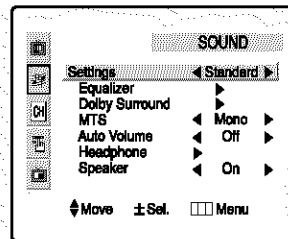
Press the **Menu** button to display the menu.

Press the **CH▼** button once to highlight the **SOUND** menu.



**2**

Press the **VOL -** or **VOL +** buttons repeatedly to select the "Standard," "Music," "Speech," "Movie" or "Custom" sound settings.



**3**

Alternate method:

Simply press the the **S.Mode** button on the remote control to select one of the standard sound settings.

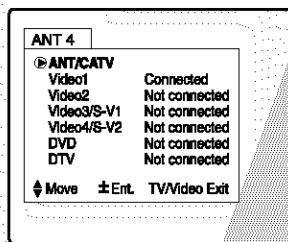
- Choose *Standard* for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose *Speech* when watching a show that is mostly dialogue (i.e., news).
- Choose *Movie* when watching movies.
- Choose *Custom* to recall your personalized settings.

## Viewing a VCR or Camcorder Tape

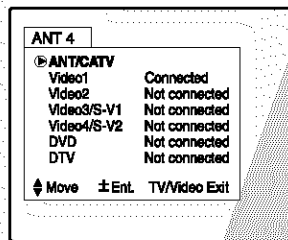
You must select the appropriate mode in order to view the VCR or Camcorder signal on the TV.

**1** Make sure that the remote control is controlling the TV set. (Press the **MODE** button and make sure that the "TV" LED is illuminated.)

**2** Press the **TV/Video** button on the remote control, and the following on-screen menu will appear:



**3** Use the **CH▲** or **CH▼** button to highlight a particular signal source, and then press the **VOL+** button to activate it.



Press the **TV/Video** button to 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 (rear panel)	Audio 3 "L+R"
Video 4	Video 4 (side panel)	Audio 4 "L+R"
S-Video 1	S-Video 1 (rear panel)	Audio 3 "L+R"
S-Video 2	S-Video 2 (side panel)	Audio 4 "L+R"
DVD	DVD-Y, Pb, Pr(rear panel)	DVD Audio "L+R"
DTV	DTV-Y, Pb, Pr(rear panel)	DTV Audio "L+R"

Notes:

DVD menu mode selection- Intended for standard interlaced source material at 480i such as a DVD Player (Non Progressive Scan).

DTV menu mode selection- Intended for 480p or 1080i source material. Use this menu option for a Progressive Scan DVD Player that outputs 480p.

# Chapter Four

## SPECIAL FEATURES

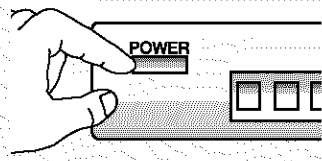
### Customizing Your Remote Control

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 a 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)

**1**

Turn off your VCR (or DVD.)



**2**

Press the **MODE** button and make sure that the **VCR (or DVD)** LED is illuminated.

**3**

On your Samsung remote control, press **Set**.

**4**

Enter 3 digits of the VCR (or DVD) code listed on the next page for your brand of VCR (or DVD).

**5**

Press the **Power** button on the remote control. Your VCR (or DVD) should turn on. If your VCR (or DVD) turns on, your remote control is now set correctly.

**6**

Once your remote control is set up, press the **MODE** button any time you want to use the remote to operate your VCR (or DVD).

◀ The remote control has four “modes”: “TV,” “VCR,” “Cable” and “DVD.” Press the “MODE” button to switch the remote control to the “VCR” (or DVD) mode.

◀ Make sure you enter 3 digits of the code, even if the first digit is a “0.” If more than one code listed, try the first one.

◀ If your VCR (or DVD) does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for the brand of your particular VCR (or DVD).

If no other codes are listed, try each code, 000 through 089.

◀ When your remote control is in the “VCR” (or DVD) mode, the volume buttons still control your TV’s volume.

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



## SPECIAL FEATURES

### VCR Codes

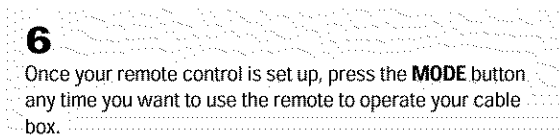
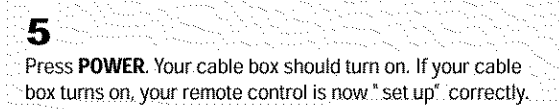
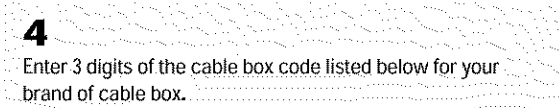
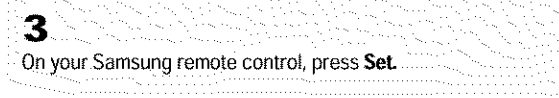
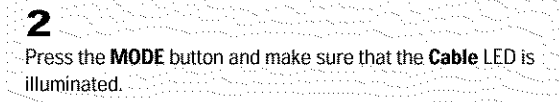
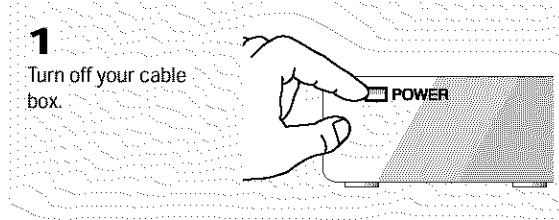
Admiral	006, 079	KLH	073	RCA	000, 005, 007, 008, 028, 035, 037, 054, 069
Aiwa	015	LG	009, 014, 046, 060	Samsung	007, 013, 022, 032, 042, 077
Akai	017, 022, 023, 027, 030	Lloyd	015	Sansui	016
Audio Dynamics	014, 016	Logik	031	Sanyo	002, 012
Bell & Howell	002	LXI	015	Scott	013, 041, 049, 068
Broksonic	010	Magnavox	008, 029, 053, 056	Sears	002, 005, 009, 012, 018, 019, 035, 043, 048
Candle	007, 009, 013, 045, 046, 052	Marantz	002, 008, 014, 016, 029, 030, 046, 061	Sharp	006, 027, 039, 045
Cannon	008, 053	Marta	009	Shintom	017, 026, 031, 055
Citizen	007, 009, 013, 045, 046, 052	MEI	008	Signature	015
Colortyme	014	Memorex	008, 009, 012, 015	Sony	017, 026, 038
Craig	007, 012	MGA	027	Sylvania	008, 015, 029, 053, 056
Curtis-Mathes	000, 007, 008, 014, 015, 046, 053, 064, 067	Midland	032	Symphonic	015
Daewoo	013, 045, 076	Minota	005, 035	Tandy	002, 015
DBX	014, 016	Mitsubishi	005, 027, 035, 040	Tashiko	009
Dimensia	000	Montgomery ward	006	Tatung	030
Dynatech	015	MTC	007, 015	Teac	015, 030, 069
Electrohome	027	Multitech	007, 015, 031, 032	Technics	008
Emerson	008, 009, 010, 013, 015, 020, 023, 027, 034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070	NEC	002, 014, 016, 030, 046, 061, 064	Ternika	008, 009, 015, 021
Fisher	002, 012, 018, 019, 043, 048, 058	Optimus	006	TMK	067
Funai	015	Panasonic	008, 053, 075, 077	Toshiba	005, 013, 019, 048, 049
GE	000, 007, 008, 032, 053	Pentax	005, 035	Totevision	007, 009
Go Video	007	Pentex Reserch+	046	Unitech	007
Harman Kardon	014	Philco	008, 029, 053, 056	Vector Research	014, 016
Hitachi	005, 015, 035, 036	Philips	008, 029	Victor	016
Instant Replay	008	Pioneer	005, 016, 033, 050	Video Concepts	014, 016
JC Penney	002, 005, 007, 008, 014, 016, 030, 035, 051, 053	Portland	044, 045, 052	Videosonic	007
JCL	008, 002, 014, 016, 030, 046	ProScan	000	Wards	005, 006, 007, 008, 009, 012, 013, 015, 027, 031, 035
JVC	002, 014, 088, 089	Quartz	002	Yamaha	002, 014, 016, 030, 046
Kenwood	002, 014, 016, 030, 046	Quasar	008, 053	Zenith	011, 017, 026, 079
		Radio Shack/Realist	002, 006, 008, 009, 012, 015, 019, 027, 045, 053		

### DVD Codes

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

## SPECIAL FEATURES

### Setting Up Your Remote Control to Operate Your Cable Box



◀ The remote control has four "modes": "TV," "VCR," "Cable" and "DVD."

Press the "MODE" button to switch the remote control to the "Cable" mode.

◀ Make sure you enter 3 digits of the code, even if the first digit is a "0." (If more than one code listed, try the first one.)

◀ If your cable box does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for your particular brand of cable box. (If no other codes are listed, try each cable box code, 000 through 077.)

◀ When your remote control is in the "CABLE" mode, the volume buttons still control your TV's volume. Also, the VCR control buttons (PLAY, PAUSE, etc.) will still operate your VCR.

#### Cable Box Codes

Anvision	007, 008	NSC	009	Signature	046
Cablestar	007, 008	Oak	016, 038	Sprucer	027
Eagle	007, 008	Osk Sigma	016	Starcom	046
Eastern Int.	002	Panasonic	003, 027, 039, 061, 073, 074	Stargate 2000	058
General Instrument	046	Philips	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041	Sylvania	011, 059
GI	004, 005, 015, 023, 024, 025, 030, 036, 067, 068, 069	Pioneer	018, 020, 044, 074, 077	Texscan	011, 059
Hamlin	003, 012, 013, 034, 048	Randtek	007, 008	Tocom	017, 021, 049, 050, 055, 073
Hitachi	037, 043, 046	RCA	000, 027, 066	Unika	031, 032, 041
Jerroid	004, 005, 015, 023, 024, 025, 030, 036, 046, 062, 065	Regal	003, 012, 013	Universal	051, 052
Macom	037, 043	Regency	002, 033	Viewster	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041
Magnavox	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041	SA	070, 071, 072	Warner Amex	044
		Samsung	044, 003, 022, 063, 064	Zenith	014, 042, 057, 061, 075, 076

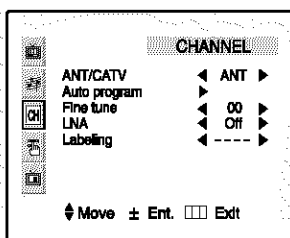
## Fine Tuning Channels

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

**1**  
Select the appropriate channel.

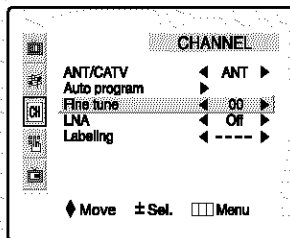
**2**  
Press the **MENU** button to display the menu.

Press the **CH ▼** button twice to highlight "CHANNEL."

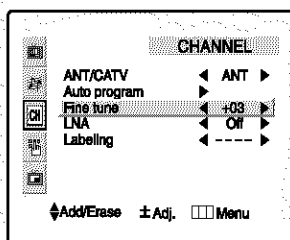


**3**  
Press the **VOL +** button to select CHANNEL menu.

Press the **CH ▼** button twice to select "Fine tune."



**4**  
Press the **VOL –** and **VOL +** buttons to adjust the fine tuning.



**5**  
To store the fine tuning setting in the TV's memory, press the **CH ▲** button. (A heart icon will appear.)

To reset the fine tuning to "00," press the **CH ▼** button.

◀ After you adjust the fine tuning, the "heart icon" will appear when you press Display while watching this channel.

◀ Press the Menu button to resume normal viewing.

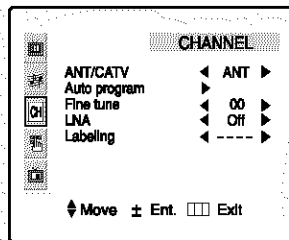
## LNA (Low Noise Amplifier)

If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).

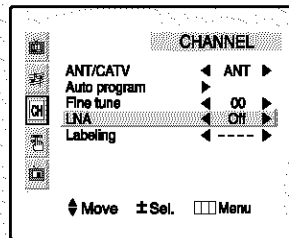
- Press the **MENU** button to display the menu.

Press the **CH ▼** button twice to highlight the "CHANNEL" menu.

Press the **VOL +** button to select the CHANNEL menu.

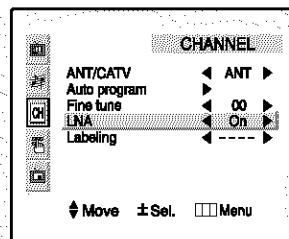


- Press the **CH ▼** button three times to select "LNA."



- Press the **VOL -** or **VOL +** button to select LNA "on."

Press the **Menu** button twice to exit.

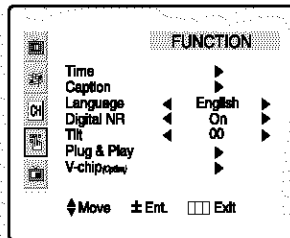


◀ Pressing VOL - or VOL + will alternate between "On" and "Off."

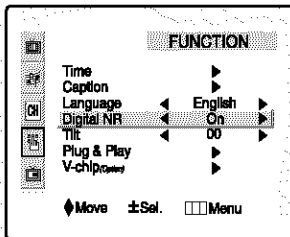
## Digital Noise Reduction

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.

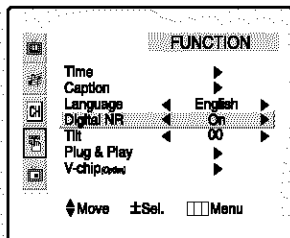
- 1**  
Press the **Menu** button to display the menu.
- Press the **CH ▾** button three times to highlight "FUNCTION."



- 2**  
Press the **VOL +** button.
- Press the **CH ▾** button three times to select "Digital NR."



- 3**  
Press the **VOL +** or **VOL -** buttons to select Digital NR "On".
- Press the **Menu** button twice to exit.



◀ Pressing the VOL- or VOL+ buttons will alternate between "On" and "Off".

## SPECIAL FEATURES

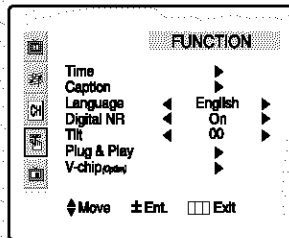
### Tilt

Due to the Earth's magnetic field there may be some minor image tilt depending on the TV's location. When this occurs, follow the steps below.

**1**

Press the **MENU** button to display the menu.

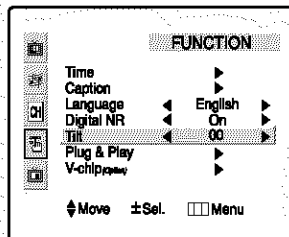
Press the **CH▼** button three times to highlight the "FUNCTION" menu.



**2**

Press the **VOL+** button.

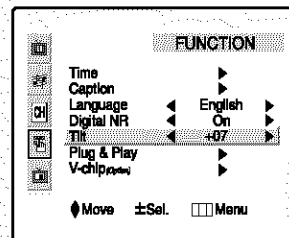
Press the **CH▼** four times to select "Tilt".



**3**

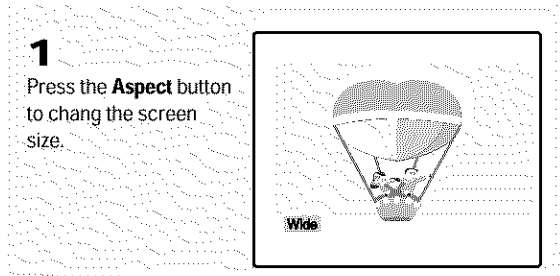
Press the **VOL-** or **VOL+** buttons to adjust the Tilt.

Press the **Menu** button to exit.



## Changing the Screen Size

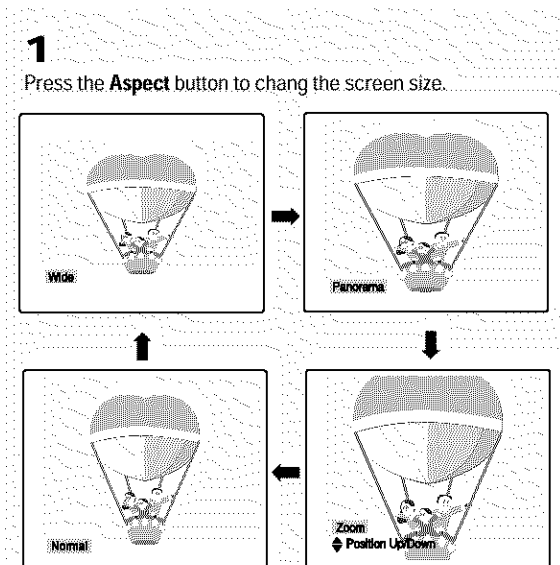
(For models TSK2792F/TSK2790F/TSK3292F/TSK3290F/  
TSL3294HF/TSL3295HF/TSL2795HF)



- Normal : Sets the picture to 4:3 normal mode. This is a standard TV screen size.
- Wide : Sets the picture to 16:9 wide mode.
- Zoom : Sets the picture to Zoom mode.

## Changing the Screen Size

(For models TSK3092WF/TSL3095WHF)



- Wide: Sets the picture to 16:9 wide mode.
- Panorama : Use this mode for the wide aspect ratio of a panoramic picture.
- Zoom: Magnifies the size of the picture on screen. Before “Position Up/Down” disappears from the screen, press the CH▲ or ▼ buttons to scroll the picture up and down.
- Normal: Sets the picture to 4:3 normal mode. This is a standard TV screen size.

## Freezing the Picture

**1**

Press the **Still picture** button to freeze a moving picture.  
(Normal sound will still be heard.)

Press again to cancel.

## Using the R.Surf

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 Surf to “5 minutes”, then switch channels. After 5 minutes, the TV will return to the original channel. To use the R.Surf:

**1**

While you are watching the channel to which you want to return, press the **R.surf** button. The on-screen display will read “Surf off”.

A rectangular box representing the TV screen. In the top-left corner, the text "Surf Off" is displayed in a small, dark font.

**2**

Press the **R.surf** button again to set the timer in thirty second intervals, up to five minutes.

A rectangular box representing the TV screen. In the top-left corner, the text "Surf 1:30" is displayed in a small, dark font.

**3**

The time you set will begin counting down on the screen. When the time runs out, the TV will return to the channel you were watching when you set the timer.

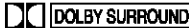


## Special Sound Options: Dolby Surround, MTS, Auto Volume, and Headphone

Depending on the particular type of audio that is being broadcast, you can listen to any of three modes: Mono, Stereo and SAP (Secondary Audio Programming, which is typically a foreign-language translation).

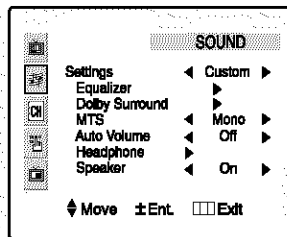
The Dolby Surround Pro Logic option allows you to enjoy programs in surround sound. The headphone option is especially useful when simultaneously watching the main screen and the PIP window.

### 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**

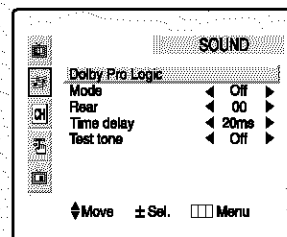
**1**

Press the **Menu** button to display the menu. Press the **CH▼** button to highlight "SOUND" and press the **VOL+** button.



**2**

Press the **CH▼** button twice to select "Dolby Surround" and press the **VOL+** button.



Select the mode: Press the **VOL+** button repeatedly until the appropriate mode appears ("Wide," "Phantom," or "Normal"). Some recommended settings:

- 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, press the **CH▼** button, and highlight "Center." Next, press the **VOL+** or **VOL-** buttons and, depending on personal preference, select any value between -12 and +12. Follow a similar procedure for "Rear" and "Time 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 "Time delay," use the **CH▼** and **VOL+** buttons 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.

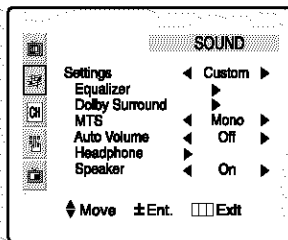
Press the **Menu** three times to exit.

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

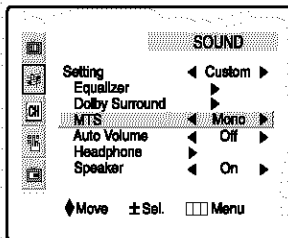
### Choosing a Multi-Channel Sound (MTS) Soundtrack

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.)

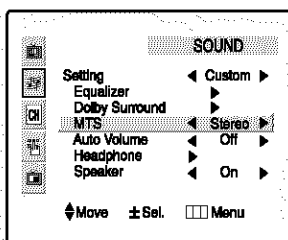
**1**  
Press the **Menu** button to display the menu.  
  
Press the **CH▼** button once to highlight the **SOUND** menu.



**2**  
Press the **VOL +** button to select the **SOUND** menu.  
  
Press the **CH▼** button three times to select "MTS".



**3**  
Press the **VOL +** button repeatedly to select "Mono," "SAP," or "Stereo."  
  
Press the **Menu** button twice to exit.



◀ The text at the bottom of the menu tells you if the incoming audio is stereo, SAP, or mono.

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

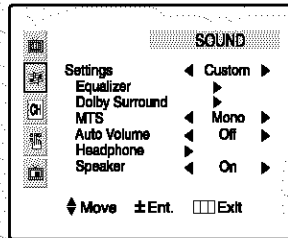
You can also change the MTS setting by pressing the "MTS" button on the remote control. (When you change channels, MTS is set to "Stereo" automatically. To listen in 'SAP' or 'Mono,' change the MTS setting.)

### Adjusting the Headphone Sound

The headphone option is especially useful when simultaneously watching the main screen and the PIP window.

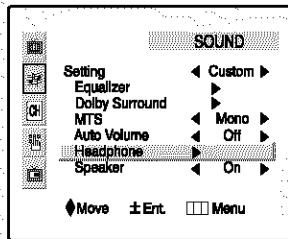
- Press the **Menu** button to display the menu.

Press the **CH▼** button once to highlight "SOUND" and press the **VOL+** button.

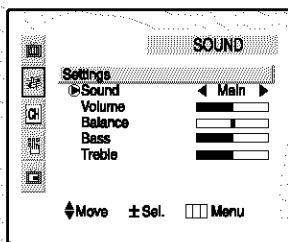


◀ Note: Headphones must be purchased separately.

- Press the **CH▼** button five times to select the "Headphone" and press the **VOL+** button.

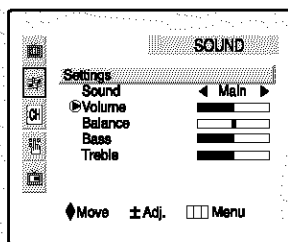


- Press the **VOL+** or **VOL-** buttons to select "Main" or "Sub".



◀ Note: You can select either Main or Sub during PIP On.

- Press the **CH▲** or **CH▼** button to select the particular item to be changed. Press the **VOL+** or **VOL-** buttons to increase or decrease the value of a particular item.



◀ Note: When you want to listen to TV with headphones only, press the MUTE or VOL- button on the remote control to set the TV speaker volume to zero(0).

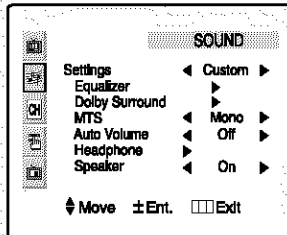
## SPECIAL FEATURES

### Auto Volume

Each broadcasting station has its own signal conditions, and it is inconvenient to adjust the volume every time the channel is changed. "Auto volume" automatically adjusts 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.

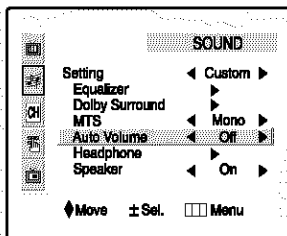
**1**  
Press the **Menu** button to display the menu.

Press **CH▼** once to highlight the "SOUND" menu.



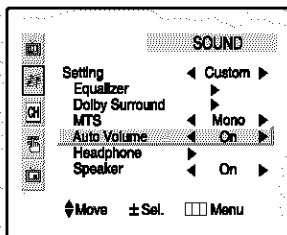
**2**  
Press the **VOL +** button to select the SOUND menu.

Press the **CH▼** button four times to select "Auto volume".



**3**  
Press the **VOL +** button to select "On".

Press the **Menu** button twice to exit.



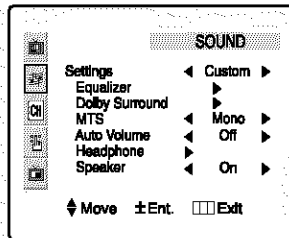
## Switching the Internal Speakers On/Off

When the internal speakers are switched off, all the sound is routed to the external speakers.

**1**

Press the **Menu** button to display the menu.

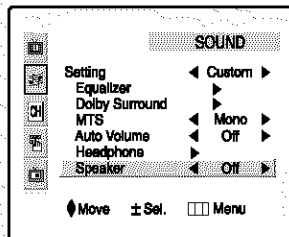
Press the **CH▼** button once to highlight "SOUND" and press the **VOL+** button.



**2**

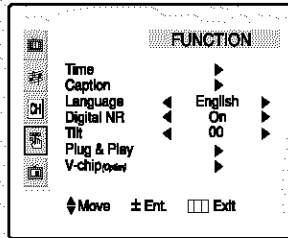
Press the **CH▼** button six times to select "Speaker".

Press the **VOL+** or **VOL-** button to select "On" or "Off".



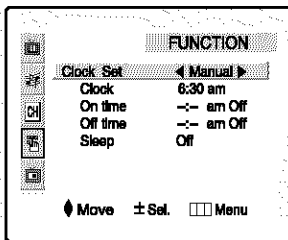
## Setting the On/Off Timer

- 1**  
Press the **Menu** button to display the menu.
- Press the **CH**  $\blacktriangledown$  button three times to highlight the "FUNCTION" menu.

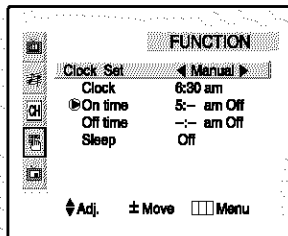


◀ Before using the timer, you must set the TV's clock. (See "Setting the Clock" on page 3.10)

- 2**  
Press the **VOL +** button to select the "FUNCTION" sub-menu.



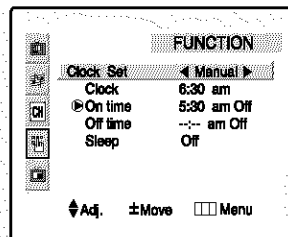
- 3**  
Press the **CH**  $\blacktriangledown$  button to select "On time."
- Press the **VOL +** button to highlight the "On time" hours. (The hours digits will start blinking.)



- Press the **CH**  $\blacktriangle$  or **CH**  $\blacktriangledown$  buttons repeatedly to select the appropriate hours (i.e., the hour when the TV will turn on.)

◀ When you set the hours, make sure the correct time of day (AM or PM) appears to the left of the hour.

- 4**  
Press the **VOL +** button to highlight the "On time" minutes. (The minutes digits will start blinking.)
- Press the **CH**  $\blacktriangle$  or **CH**  $\blacktriangledown$  buttons to select the appropriate minutes.



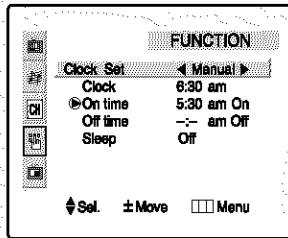
continued...

## SPECIAL FEATURES

### 5

Press the **VOL +** button to highlight "On/Off."

Press the **CH ▲** or **CH ▼** buttons to turn the on-timer "On." (Repeatedly pressing the **CH ▲** or **CH ▼** buttons will alternate between on and off.)



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

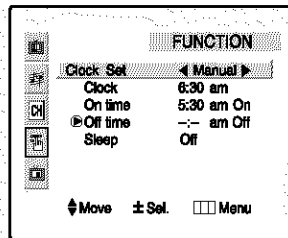
### 6

When finished, press the **VOL +** button.

### 7

To set the Off time, press the **CH ▼** button to highlight "Off time."

Press the **VOL +** button and set the hours and minutes. (Follow the same procedure as in steps 1–6 above.)



### 8

When finished setting the timer, press the **Menu** button three times to exit.

## Setting the Sleep Timer

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

### 1

Press the **Sleep** button on the remote control.

### 2

Press **Sleep** repeatedly until the appropriate time interval appears (any of the preset values from "Off" to "360").

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

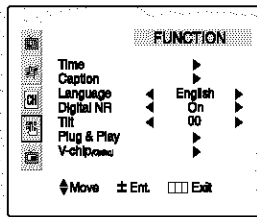
## Viewing Closed Captions

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 does not work with DVD or DTV signals.

- Press the **Menu** button to display the menu.

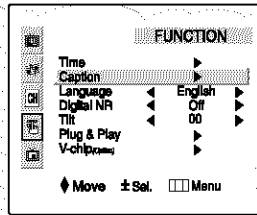
Press the **CH**  $\blacktriangledown$  button three times to select the "FUNCTION" menu. Press the **VOL+** button.



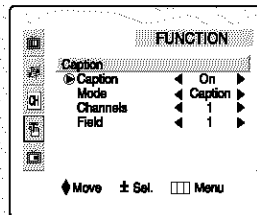
◀ Quick way to access captions menu: Simply press the Caption button on the remote control:

- Press the **CH**  $\blacktriangledown$  button once to select "Caption".

Press the **VOL+** button to open the Caption menu.



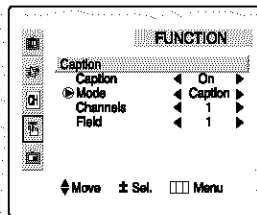
- Press the **VOL+** or **VOL-** buttons to turn closed captioning on/off.



◀ Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.

- Press the **CH**  $\blacktriangledown$  button to highlight "Mode."

Press the **VOL -** or **VOL +** buttons to select "Caption" or "Text."



◀ In caption mode, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.

In text mode, information unrelated to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

- Depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field":

Use the **CH**  $\blacktriangle$ , **CH**  $\blacktriangledown$ , **VOL +** and **VOL -** buttons to make the changes. (Follow the same procedure as in steps 3-4 above.)

Press the **Menu** button three times to exit.

◀ Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)



## Viewing Picture-in-Picture

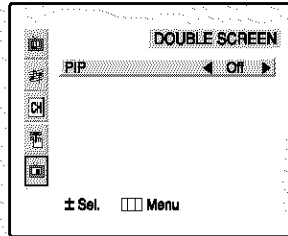
You can use the PIP feature to simultaneously watch two video sources.  
 Note: The PIP feature does not work with DVD or DTV signals.

### Activating Picture-in-Picture

- Press the **Menu** button to display the menu.

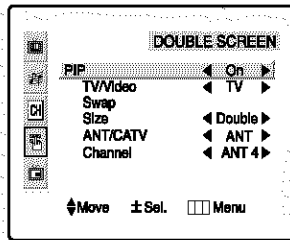
Press the **CH▼** four times to highlight the PIP menu.

Press the **VOL +** button to select the PIP menu.



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

- Press the **VOL +** button to select PIP "On."



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

- Press the **Menu** button twice to exit.

Note: Picture-in-Picture does not function when the V-chip is active.

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

Press the **Source** button repeatedly to cycle through all of the available signal sources:  
"TV," "Video 1," "Video 2," "Video 3," "Video 4," "S-Video 1,"  
"S-Video 2" and "DVD".

◀ For more information about external A/V components and signals, see "Viewing a VCR or Camcorder Tape" on page 3.17. If you select "TV", the PIP image is the same as the main image.

### Swapping the Contents of the PIP image and Main image

When you press the **Swap** button:  
The image in the PIP window will appear on the main screen, and vice versa.

### Changing the PIP Channel

Press the PIP **CH▲** or **CH▼** button to change the channel that appears in the PIP window.

### Changing the Location (Rotating) the PIP Window

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

### Changing the Size of the PIP Window

Press the **Size** button to alternate between a smaller and larger PIP window.

### Scanning the Available Channels

This procedure scans all of the available channels and then stores them in memory.

Press the **Scan** button, and the memorized channels will appear in sequence for 2 to 3 seconds per channel.  
Press the **Scan** button again to stop the scanning process.

When the **Scan** button stops, the viewing mode will return to its original setting.

## Using the V-Chip (Option)

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.

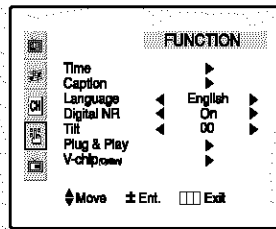
Note : When the V-chip feature is active, the PIP and channel-auto program features does not function.

### Setting Up Your Personal ID Number (PIN)

- Press the **Menu** button to display the menu.

Press the **CH ▼** button three times to select the "FUNCTION" menu.

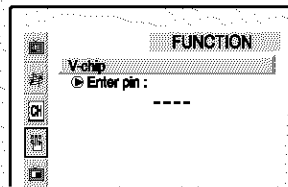
Press the **VOL +** button.



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

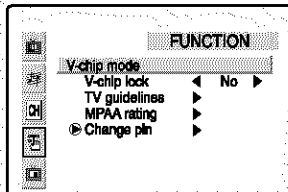
- Press the **CH ▼** button six times to select the "V-chip" menu.

Press the **VOL+** button.

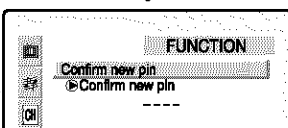


The "Enter pin" screen will appear. Enter your 4-digit PIN number. Note: The default PIN number for a new TV set is "0-0-0-0."

- After entering a valid PIN number, the "V-chip mode" screen will appear. Press the **CH ▼** button three times and highlight "Change pin."



- While the "Change pin" field is selected, press the **VOL+** button. The Change pin screen will appear. Choose any 4-digits for your PIN and enter them.



As soon as the 4 digits are entered, the "Confirm pin" screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your PIN has been memorized.

Press the **Menu** button to exit.

◀ Note: If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0:

POWER OFF → MUTE → 8 → 2 → 4 → POWER ON.

## SPECIAL FEATURES

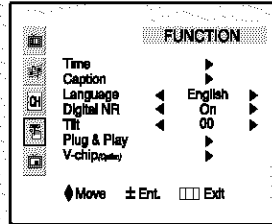
### How to Enable/Disable the V-Chip

**1**

Press the **Menu** button.

Press the **CH ▾** button three times to select the "FUNCTION" menu.

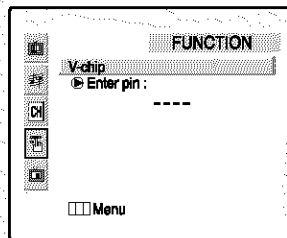
Press the **VOL +** button.



**2**

Press the **CH ▾** button six times to highlight the "V-chip" menu.

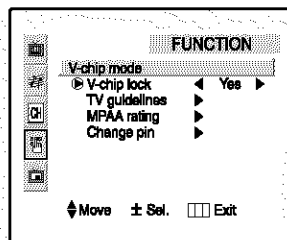
Press the **VOL+** button. The "Enter pin" screen will appear. Enter your 4-digit PIN number.



**3**

The "V-Chip mode" screen will appear, and "V-Chip lock" will be highlighted (turns blue color).

To enable the V-Chip feature, press the **VOL+** button so that the "V-Chip lock" field is YES. (Pressing the **VOL+** button will alternate between YES and NO.)



### How to Set up Restrictions Using the "TV guidelines"

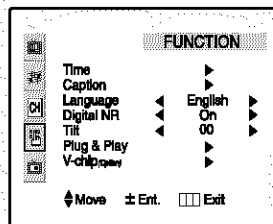
First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

**1**

Press the **Menu** button to display the menu.

Press the **CH ▾** button two times to highlight the "FUNCTION" menu.

Press the **VOL +** button.



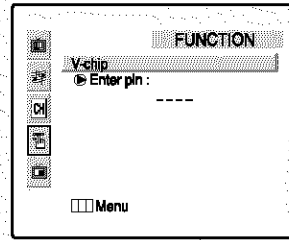
## SPECIAL FEATURES

### 2

Press the **CH ▼** button six times to highlight the "V-chip" menu.

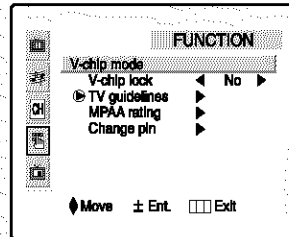
Press the **VOL+** button.

The "Enter pin" screen will appear. Enter your 4-digit PIN number.



### 3

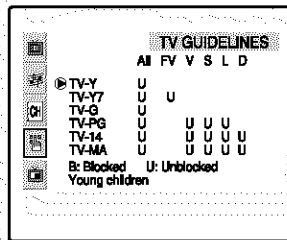
The "V-chip mode" screen will appear. Press the **CH ▼** button, and highlight the field for "TV Guidelines."



### 4

Press the **VOL+** button. The "TV guidelines" screen will appear. Press the **CH ▲**, **CH ▼** buttons to highlight one of the six age-based categories:

TV-Y	Young children
TV-Y7	Children 7 and over
<hr/>	
TV-G	General audience
TV-PG	Parental guidance
TV-14	Viewers 14 and over
TV-MA	Mature audience



◀ 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 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.

Press the **VOL+** button: Depending on your existing setup, a letter "U" or "B" will start blinking. (U= Unblocked, B= Blocked)

While the "U" or "B" is blinking, press the **CH ▲** or **CH ▼** buttons to block or unblock the category.

Press the Menu button once to save the TV guidelines. A TV-Rating will be highlighted, and no letters will blink. To exit this screen, press the Menu again. To select a different TV-Rating, press the **CH ▲** or **CH ▼** buttons 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
- 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.)

## SPECIAL FEATURES

### 6

How to set the FV, D, L, S and V sub-ratings.

First, highlight one of these TV-Ratings: TV-Y7, TV-PG, TV-14 or TV-MA (See Step 4, on previous page). Next, while the TV-Rating is highlighted, repeatedly press the VOL+ button. This will cycle through the available sub-ratings (FV, L, S, D or V).

A blinking letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is blinking, press the **CH ▲** or **CH ▼** buttons to change the sub-rating.

Press **Menu** once to save the TV guidelines. A TV-Rating will be highlighted, and no letters will blink. To exit this screen, press the **Menu** button again. To select a different TV-Rating, press the **CH ▲** or **CH ▼** buttons and then repeat the process.

Note: The V-chip will automatically block certain categories that are "More restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

### 7

Press the **Menu** button three times to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

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

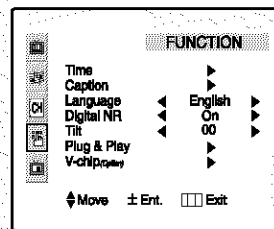
The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. (Eventually, movie videocassettes will be encoded with MPAA ratings.) When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable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

### 1

Press the **Menu** button to display the menu.

Press the **CH ▼** button three times to highlight the "FUNCTION" menu.

Press the **VOL+** button.

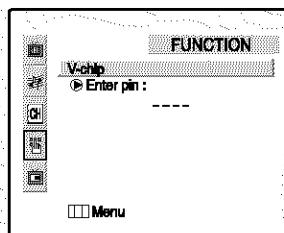


### 2

Press the **CH ▼** button six times to select the "V-chip" menu.

Press the **VOL+** button.

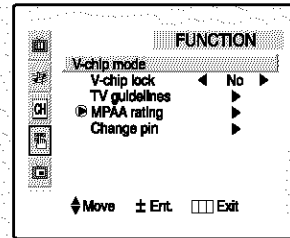
The "Enter pin" screen will appear. Enter your 4-digit PIN number.



## SPECIAL FEATURES

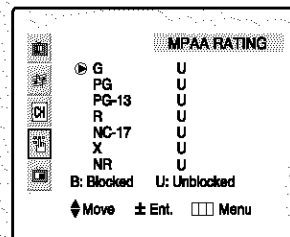
**3**

The "V-chip mode" screen will appear. Press the **CH ▼** button twice, and highlight "MPAA rating."



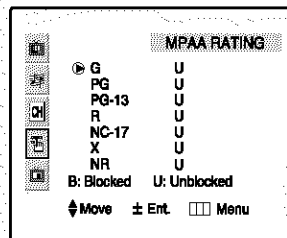
**4**

While "MPAA rating" is highlighted, press the **VOL +** button. The "MPAA rating" screen will appear.



**5**

Repeatedly press the **CH ▼** button to highlight a particular MPAA category. (When a category is highlighted, its color changes to blue.) Pressing the **CH ▼** button will cycle through the MPAA categories:



<b>G</b>	General audience (no restrictions).
<b>PG</b>	Parental guidance suggested.
<b>PG-13</b>	PG-13 (Parents strongly cautioned).
<b>R</b>	R (Restricted. Children under 17 should be accompanied by an adult).
<b>NC-17</b>	No children under age 17.
<b>X</b>	X (Adults only).
<b>NR</b>	Not rated.

While a particular category is highlighted, press the **VOL+** button to activate it. A blinking letter ("U" or "B") will be displayed. Press the **CH ▲** or **CH ▼** buttons to select "U" or "B".

Press the **Menu** button three times to save the settings and to clear all screens.

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 press the **VOL +** button to temporarily disable the V-Chip Lock.

# 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.



## 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	TSK2792F / TSK2790F TSL2795HF	TSK3292F/TSK3290F TSL3294HF/TSL3295HF	TSK3092WF TSL3095WHF
Voltage	AC 120V		
Frequency of Operation	60Hz		
Power Consumption	180 watts	180 watts	180 watts
Dimension	862 x 515 x 585mm/31.31 x 23.27 x 23.03inches	911 x 587 x 682mm/35.87 x 23.11 x 26.85inches	934 x 544 x 567mm/36.77 x 21.42 x 22.32inches
Weight	56.3kg/124.12lbs	75.4kg/166.23lbs	60.6kg/133.6lbs