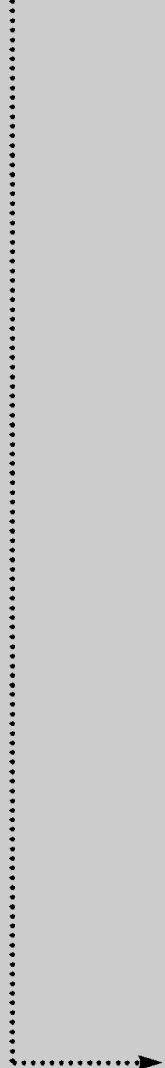**SAMSUNG**

**TX-N2668WH**

**COLOR TELEVISION**

# Owner's Instructions

# Important Warranty Information Regarding Television Format Viewing

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. *Displaying any stationary images that exceed the above guide - lines can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily dis - play full screen moving images, not stationary patterns or dark bars.* On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven CRT aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.

## List of Features

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

- Full Flat Screen
- 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
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer
- V-Chip function

## Accessories

Once you have unpacked your TV, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.

| | | |
|---|---|---|
| Remote Control(AA59-00322B)/ AAA Batteries(4301-000121) | Owner's Instructions/ Safety Guide Manual | Warranty Card; 2EA/ Registration Card |
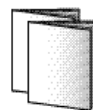
# Familiarizing Yourself with The TV

### 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.
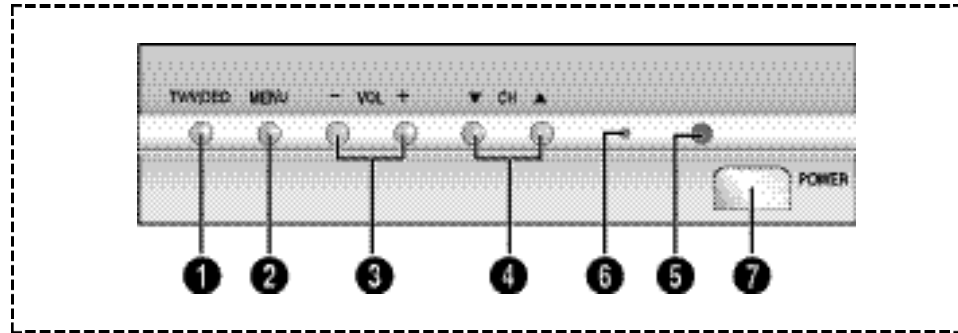


❶ **TV/VIDEO**
Press to change between viewing TV programs and signals from other components.

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

❸ **VOL − and +**
Press to increase or decrease the volume. Also used to select items on the on-screen menu.

❹ **CH ▼ and CH ▲**
Press to change channels. Also press to select various items on the on-screen menu.

❺ **Remote Control Sensor**
Aim the remote control towards this spot on the TV.

❻ **TIMER indicator**
When the TV is turned on, the TIMER indicator blinks five times. This indicator illuminates when the TIMER mode is set to the "On" position after setting the clock and either the On timer or Off timer, with the remote control. Even if the power is turned off, this indicator stays lit. (Clock must be set before using this function.)

❼ **POWER**
Press to turn the TV on and off.

## 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 page 20.)
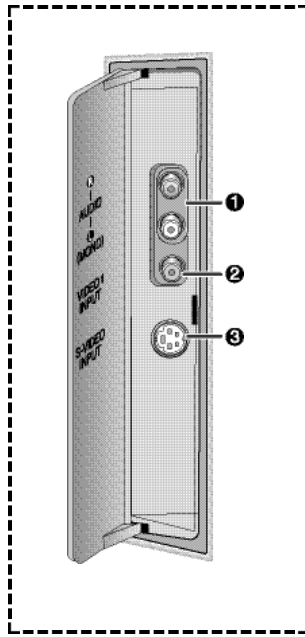
❶ **AUDIO INPUT jacks**
Used to connect the audio signals from a camcorder or video game.

❷ **VIDEO INPUT jack**
Used to connect a video signal from a camcorder or video game.

❸ **SUPER VIDEO INPUT jack**
S-Video signal from an S-VHS VCR or DVD player.
Note: In S-Video mode, Audio Output depends what kind of audio input source is connected to the side audio input jacks (AV1).

**Rear Panel Jacks**

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player.
Because there are three sets of input jacks, you can connect three different A/V components (i.e., a VCR and a DVD, 2 VCRs, etc.)

For more information on connecting equipment, see pages 11 – 19.
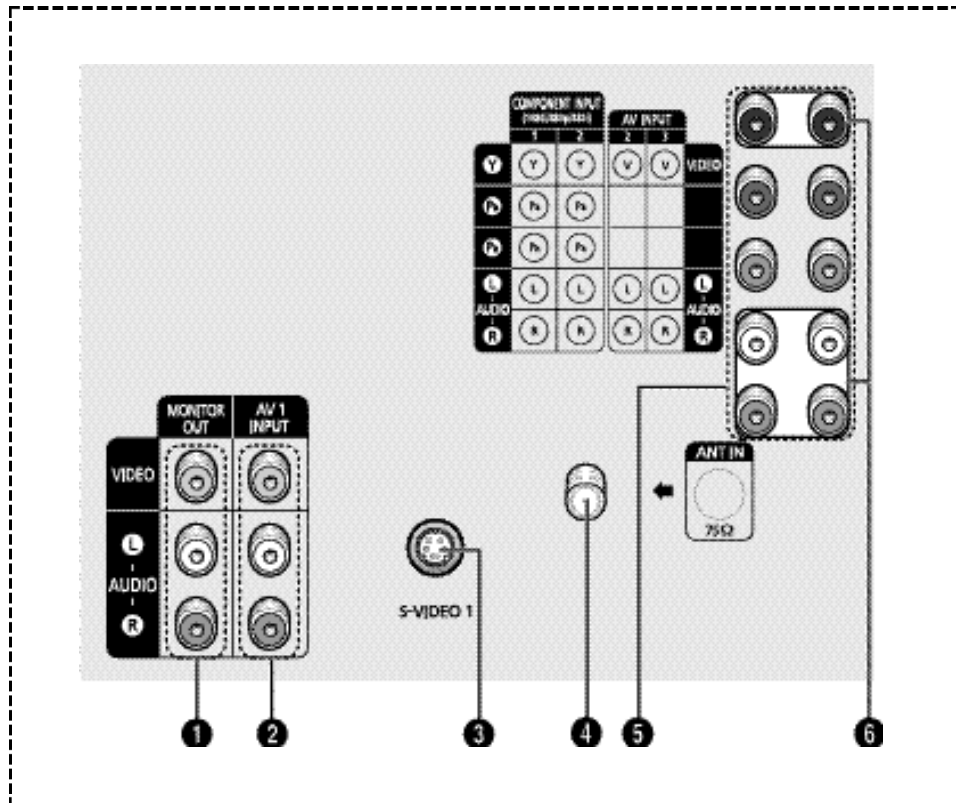


❶ **AUDIO-VIDEO MONITOR OUTPUT jacks**
These audio-video signals are identical to A/V signals being displayed on the big screen.
(Typically used as the input signals for a recording VCR.)

❷,❻ **VIDEO/AUDIO INPUT jacks**
Video and Audio signals from VCRs, DVD players and similar devices.
Note: The common jack of component 1 and AV2, component 2 and AV3 input jacks are exclusive relation with each other.

❸ **SUPER VIDEO INPUT jack**
S-Video signal from an S-VHS VCR or DVD player.

Note: In S-Video mode, Audio Output depends what kind of audio input source is connected to the side audio input jacks (AV1).

❹ **VHF/UHF**
Connect to an antenna or to a cable TV system.

❺ **COMPONENT 1, 2 INPUT jacks (480i/480p/1080i)**
Connect to the audio and component output jacks of a DVD player or Set-Top Box.
Note: Only black and white signals are output from a monitor in DVD/DTV mode.

## 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 Set-Top Box, VCR, DVD and cable box. See page 63 for details.

**➊ POWER**
Turns the TV on and off.

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

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

**➍ Number buttons**
Press to select channels directly on the TV.

**+100**
Press to select channels over 100. For example, to select channel 121, press "+100," then press "2" and "1."

**➎ VOL -, VOL +**
Press to increase or decrease the volume.

**➏ MUTE**
Press to temporarily cut off the sound.

**➐ SLEEP**
Press to select a preset time interval for automatic shutoff.

**➑ MENU**
Displays the main on-screen menu.

**➒ P.SIZE**
Press to change the screen size.

**➓ R.SURF**
Press the R.SURF button to automatically return to a preferred channel after a user-preset time delay.
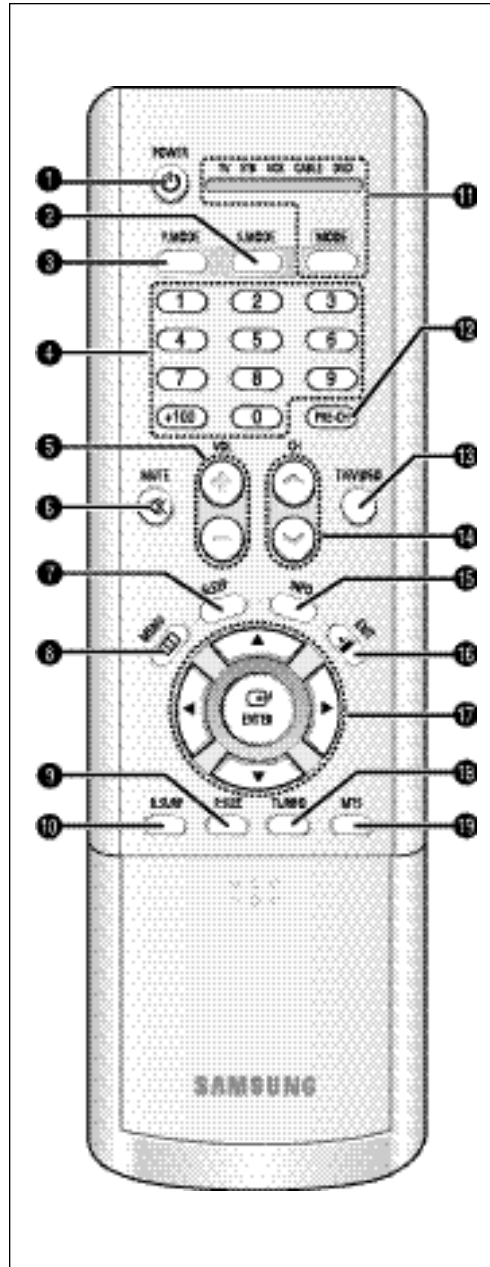
**⓫ MODE**
Selects a target device to be controlled by the Samsung remote control (i.e., TV, Set Top Box, VCR, Cable box, or DVD).

**⓬ PRE-CH**
Tunes to the previous channel.

**⓭ TV/VIDEO**
Press to display all of the available video sources (i.e., Antenna/Cable, VCR).

**⓮ CH⌃ and CH⌄ (Channel Up/Down)**
Press CH⌃ or CH⌄ to change channels.

**⓯ INFO**
Press to see the time, channel, etc., on-screen.

**⓰ EXIT**
Press to exit the menu.

**⓱ Up,Down,Left, Right (▲,▼,◄,►)/ ENTER**
Press to select highlight up, down, left, or right. While using the on-screen menus, press ENTER to activate (or change) a particular item.

**⓲ TURBO**
Press to turn the TURBO sound On or Off.

**⓳ MTS (Multichannel Television Stereo)**
Press to choose stereo, mono or Separate Audio Program (SAP broadcast).

9

## Remote Control

**⑳ TV/COMPONENT**
Press to switch the TV, COMPO-NENT1, or 2 mode

**㉑ VCR(DVD, DVR or STB) Controls**

**REW (Rewind)**
Press to rewind a tape in your VCR(DVD, DVR or STB).

**STOP**
Press this button to stop a tape during play, record, rewind or fast forward. If the button is pressed during Full-Automatic play, the function will be cancelled.

**PLAY/PAUSE**
Press the PLAY/PAUSE button to play back prerecorded tapes or pause the tape.

**FF**
Press to fast forward the tape in your VCR(DVD, DVR or STB).

**㉒ SET**
Use this button when you are setting up your remote control to operate your Set Top Box, VCR, Cable box or DVD.
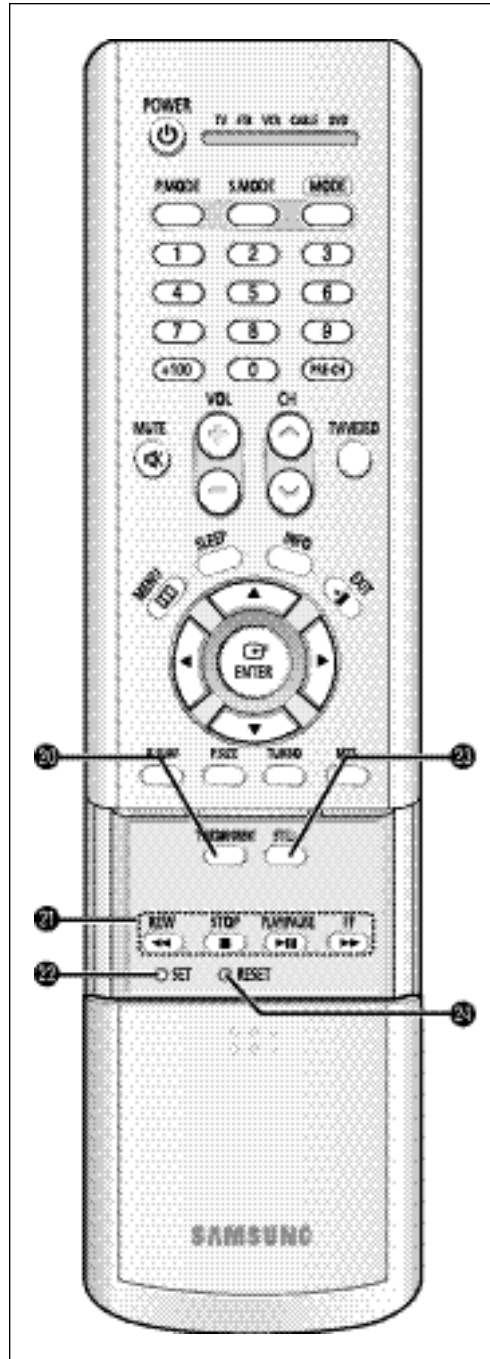
**㉓ STILL**
Press to stop the action during a particular scene. Press again to resume normal video.
Note: The still function doesn't operate in Component 1, or 2 mode.

**㉔ RESET**
If your remote control is not functioning properly, take out the batteries and press the reset button for about 2~3 seconds. Re-insert the batteries and try using the remote control again.

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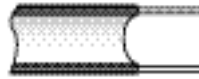
If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads" on next page.

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

### 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.
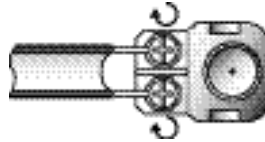
**2**

Plug the adaptor into the VHF/UHF terminal on the bottom of the back panel.
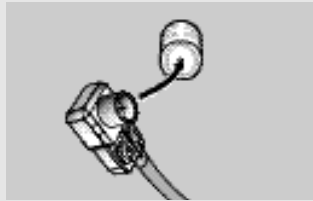
### Antennas with 75-ohm Round Leads

**1**

Plug the antenna lead into the VHF/UHF terminal on the bottom of the back panel.
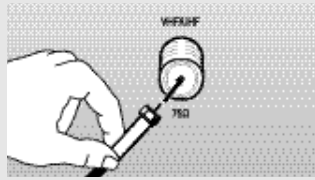
### Separate VHF and UHF Antennas

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 an optional combiner-adaptor (available at most electronics shops).

**1**

Connect both antenna leads to the combiner.
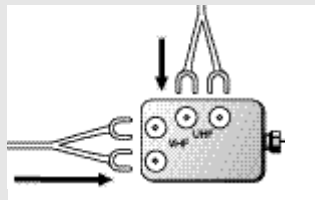
**2**

Plug the combiner into the VHF/UHF terminal on the bottom of the rear panel.
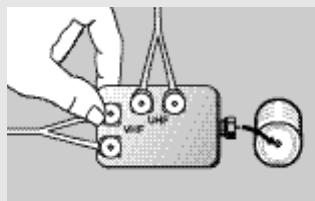
## Connecting Cable TV

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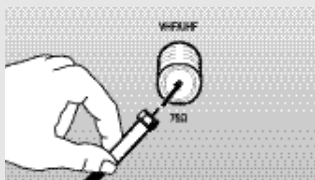
◄ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

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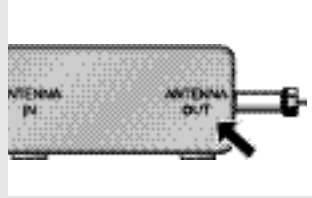
◄ This terminal might be labeled "ANT OUT", "VHF OUT" or simply, "OUT".

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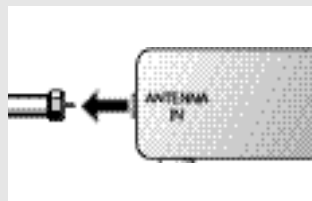
◄ This terminal might be labeled "ANT IN", "VHF IN" or simply, "IN".

**2**

Connect this cable to a two-way splitter.

Incoming Cable

Splitter

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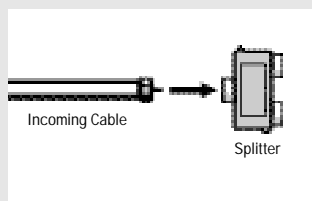
Connect a coaxial cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.

Incoming Cable
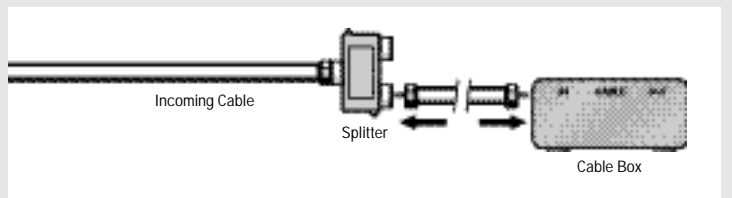
Splitter

Cable Box

**4**

Connect a coaxial cable between the ANTENNA OUT terminal on the cable box and the B–IN terminal on the RF(A/B) switch.

Incoming Cable

Splitter

Cable Box
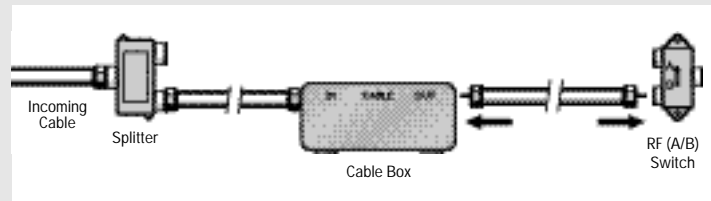
RF (A/B) Switch

**5**

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

Incoming Cable

Splitter

Cable Box
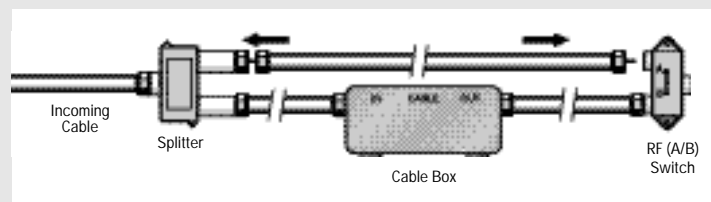
RF (A/B) Switch

**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.

Incoming Cable

Splitter

Cable Box

RF (A/B) Switch

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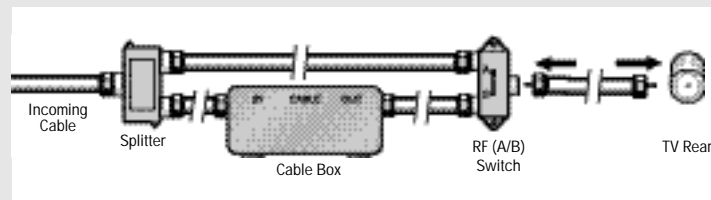
After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

## Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 11-14). 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**
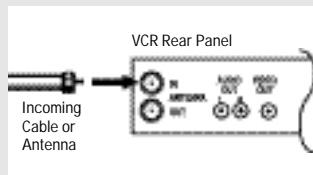
Connect a coaxial cable between the ANTENNA OUT terminal on the VCR and the antenna terminal on the TV.

A coaxial cable is usually included with a VCR. (If not, check your local electronics store).
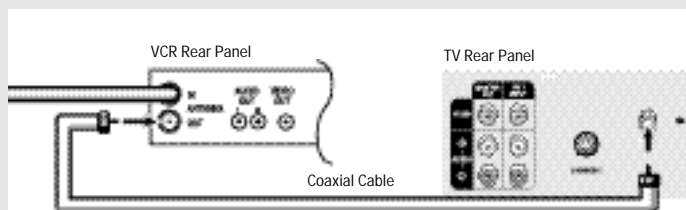
**4**

Connect a set of audio cables between the AUDIO OUT jacks on the VCR and the AUDIO jacks on the TV.
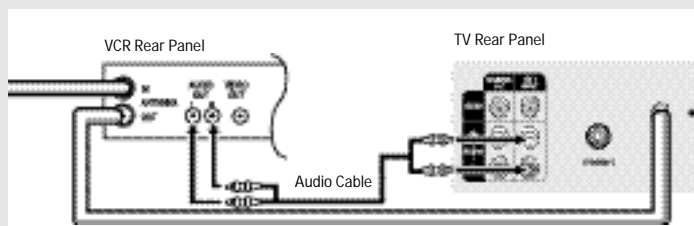
**5**

Connect a video cable between the VIDEO OUT jack on the VCR and the VIDEO jack on the TV.
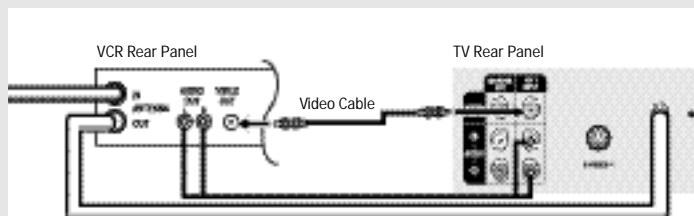
Follow the instructions in "Viewing an External Signal Source" to view your VCR tape.

## 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.

VCR Rear Panel    TV Rear Panel

Coaxial Cable
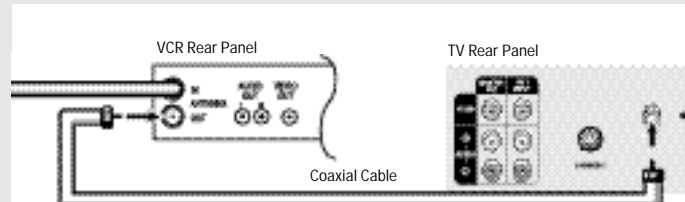
**2**
Connect a set of audio cables between the AUDIO OUT jacks on the VCR and the 1 AUDIO INPUT jacks on the TV.

VCR Rear Panel    TV Rear Panel

Audio Cable
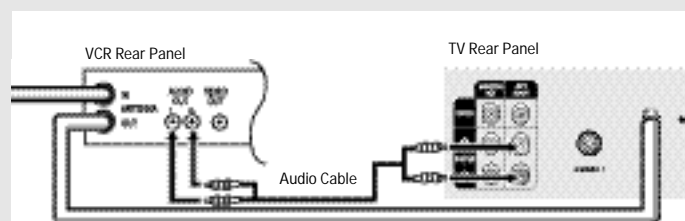
Make sure the jacks you are using are underneath the number "1."

**3**
Connect an S-video cable between the S-VIDEO OUT jack on the VCR and the S-VIDEO INPUT jack on the TV.

VCR Rear Panel    TV Rear Panel
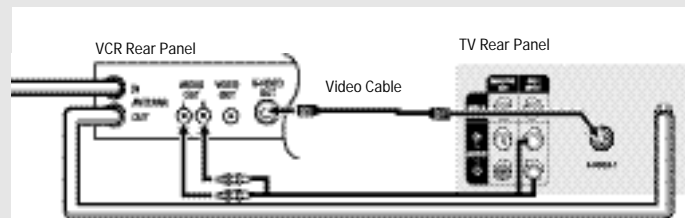
Video Cable

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.

TV Rear Panel                VCR Input Panel

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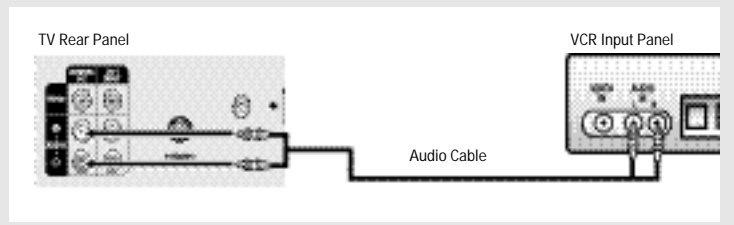
(The VCR input jacks might be either on the front or on back of the VCR.)

**2**
Connect a video cable between the VIDEO OUT jack on the TV and the VIDEO IN jack on the VCR.

TV Rear Panel                VCR Input Panel

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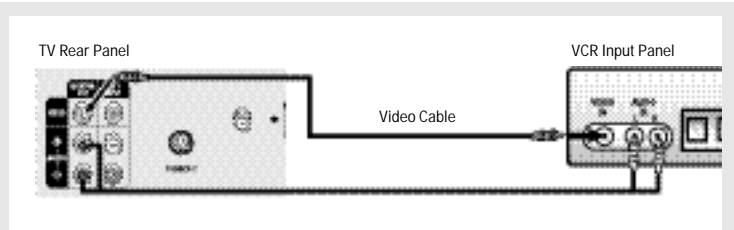
Refer to your VCR's instructions for more information about how to record using this kind of connection.

## Connecting a DVD Player (480i)

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 COMPONENT INPUT 1 (L, R) or COMPONENT INPUT 2 (L, R) jacks on the TV and the AUDIO OUT jacks on the DVD player.

DVD Player Rear Panel         TV Rear Panel

Audio Cable

**2**
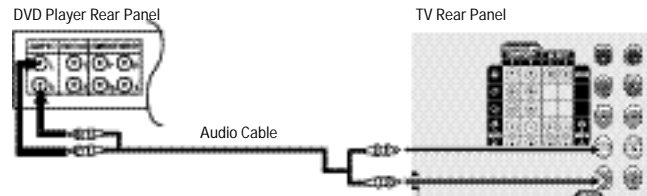
Connect a video cable between the COMPONENT INPUT 1 (Y, P$_B$, P$_R$) or COMPONENT INPUT 2 (Y, P$_B$, P$_R$) jacks on the TV and the COMPONENT VIDEO OUT (Y, P$_B$, P$_R$) jacks on the DVD player.

DVD Player Rear Panel         TV Rear Panel

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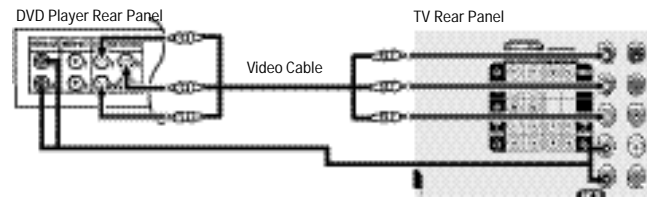
Note: For an explanation of Component video, see your DVD player's owner's manual.

## Connecting a Digital TV Set-Top Box (480p/1080i)

### Connecting to Y,P$_B$,P$_R$

Connect the Y, P$_B$, and P$_R$ 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.)

**1**

Connect a coaxial cable between the ANTENNA OUT terminal on the Set Top Box and the antenna terminal on the TV.



**2**
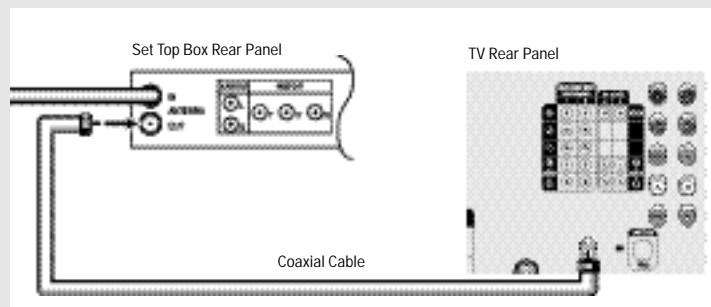
Connect a set of audio cables between the COMPONENT INPUT 2 (L, R) or COMPONENT INPUT 1 (L, R) jacks on the TV and the AUDIO OUT jacks on the Set Top Box.



**3**
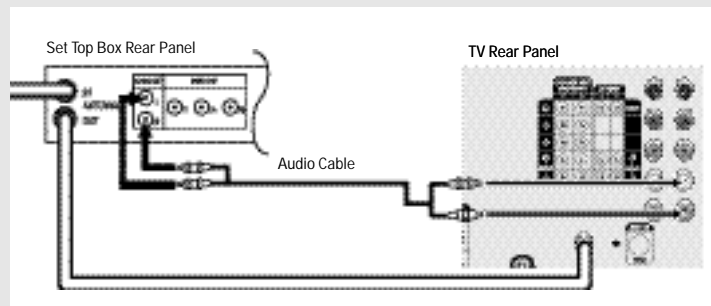
Connect a video cable between the COMPONENT INPUT 2 (Y, P$_B$, P$_R$) or COMPONENT INPUT 1 (Y, P$_B$, P$_R$) jacks on the TV and the VIDEO OUT (Y, P$_B$, P$_R$) jacks on the Set Top Box.
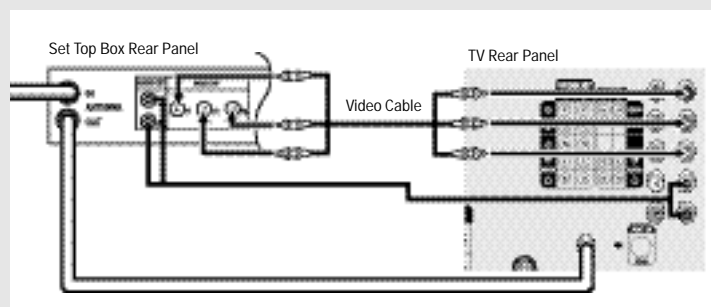


Note: For detailed information, refer to the Set Top Box instruction manual.

## 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 an External Signal Source" on page 39).

**1**

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

Camcorder Output Jacks
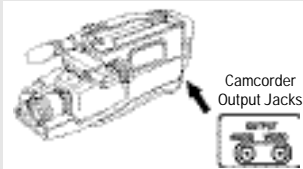
**2**

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

Camcorder Output Jacks

TV Side Panel

Audio Cable     Y-Connector

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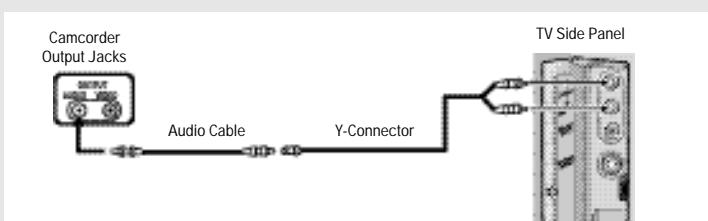
Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the VIDEO terminal on the side of the TV.

Camcorder Output Jacks

TV Side Panel
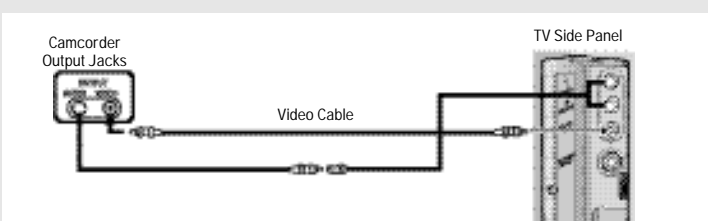
Video Cable

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.

## Installing Batteries in the Remote Control

**1**

Slide the cover out completely.
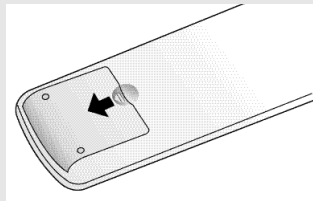
**2**

Install two AAA size batteries.
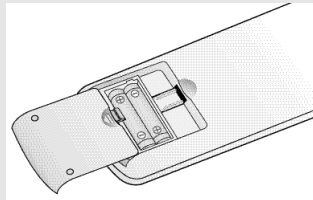
◄ Make sure to match the "+" and "−" ends of the batteries with the diagram inside the compartment.

**3**

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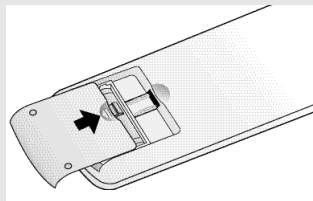
◄ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

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 the **POWER** button on the remote control.
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 and 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.

| |
|---|
| **Plug & Play** |

### 2

Press the ◄ or ► button to select the desired language.
Press the **MENU** button to enter the language, then the "Channel" menu is automatically displayed.

| TV | **Setup** | |
|---|---|---|
| 🖵 | Plug & Play | ► |
| 🎚 | Time | ► |
| | **Language ◄      English** | **►** |
| 🔊 | Caption | ► |
| 🚫 | Melody    :         On | |
| | V-chip | ► |
| 🎛 | | |
| ◄► **Adjust** | | ▥ **Skip** |

### 3

Press the ◄ or ► button to select the desired video signal source.
Press the **MENU** button to enter the video signal source, then the "Check antenna input." is automatically displayed.

| TV | **Channel** | |
|---|---|---|
| 🖵 | Auto program | ► |
| 🎚 | Add/Delete | ► |
| | Fine tune         :    00 | |
| 🔊 | **Air/CATV        ◄      Air** | **►** |
| 🚫 | Name              : - - - - | |
| 🎛 | | |
| ◄► **Adjust** | | ▥ **Skip** |

| |
|---|
| **Check antenna input.** |
| **Auto program**    **Skip** |

22
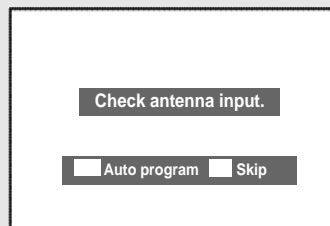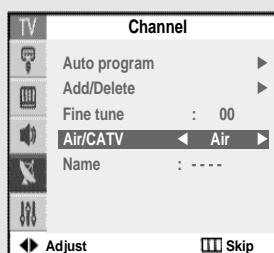
## 4

Make sure that the antenna is connected to the TV. And then press the ◀ or ▶ button to activate "Auto Program" or press the **MENU** button to skip. (refer to "Auto program" on page 27.)

**Auto program**
Air    3

☐ Exit

## 5
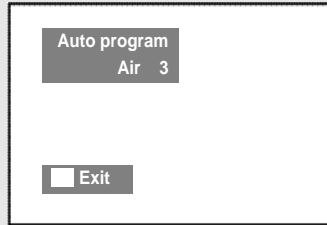
Press the ▶ button to move to the hour or minute.
Set the hour or minute by pressing the ▲ or ▼ button. (refer to "Setting the Clock" on page 31.)

| TV | Time | |
|---|---|---|
| | Clock | - - : - - am |
| | On Timer | - - : - - am Off |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |

◆ Move    ◀▶ Adjust    ▥ Skip

## 6

When you have finished, press the **MENU** button. The message "Enjoy your watching.." is displayed.

Enjoy your watching..
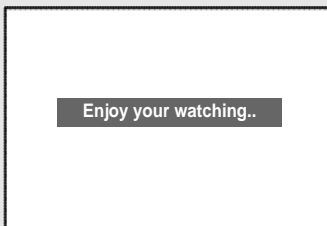
## 7

**If you want to reset this feature**
(1) Press the **MENU** button.
(2) Press the ▲ or ▼ button to select the "Setup", then press the **ENTER** button.
(3) Press the **ENTER** button to select "Plug & Play". The message "Plug & Play" is displayed.

| TV | Setup | |
|---|---|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: | English |
| | Caption | ▶ |
| | Melody : | On |
| | V-chip | ▶ |

◆ Move    ↵ Enter    ▥ Return
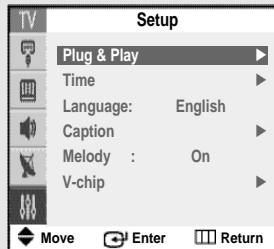
Note: Plug & Play feature doesn't work when the V-chip is on or when in the A/V mode.

# 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: Input, Picture, Sound, Channel and Setup.

| TV | **Input** | |
| --- | --- | --- |
| | Source List : TV | ▶ |
| | Edit Name | ▶ |

◆ Move   ⊕ Enter   ▥ Exit
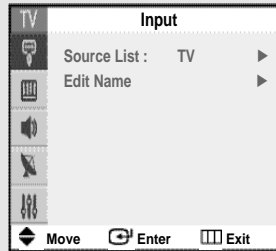
◀ The on-screen menus disappear from the screen after two minutes.

**2**

Use the ▲ and ▼ buttons to highlight one of the 5 icons. Then press the **ENTER** button to access the icon's sub-menu.

**3**

Press the EXIT button to exit the menu.

◀ You can also use the **MENU**, **CH** and **VOL** buttons on the control panel of the TV to make selections.

## Viewing the Display

**1**

Press the **INFO** button.

The on-screen display shows any or all of the following: Active channel, the channel label, signal, MTS and the current time.

**Air   10**
**12 : 00 am**

**MTS   : Stereo**
**Signal  : Mono**

◀ The on-screen displays disappear after ten seconds.

# Selecting a Menu Language

### 1

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

Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

| | Setup | |
|---|---|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: English | |
| | Caption | ▶ |
| | Melody : On | |
| | V-chip | ▶ |

♦ Move    ⏎ Enter    ▥ Return

### 2

Press the ▲ or ▼ button to select "Language".

| | Setup | |
|---|---|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language ◀ English | ▶ |
| | Caption | ▶ |
| | Melody : On | |
| | V-chip | ▶ |

♦ Move    ◀▶ Adjust    ▥ Return

### 3

Press the ◀ or ▶ button to select the appropriate language: "English", "Español" or "Français".

Press the EXIT button to exit the menu.

| | Configuración | |
|---|---|---|
| | Plug & Play | ▶ |
| | Tiempo | ▶ |
| | Idioma ◀ Español | ▶ |
| | Subtítulo | ▶ |
| | Melodía : Enc. | |
| | V-chip | ▶ |

♦ Mover    ◀▶ Ajustar    ▥ Regresar

# 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.

Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button

|  | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | : Air |
| | Name | : - - - - |

◆ Move    Enter    Return

## 2
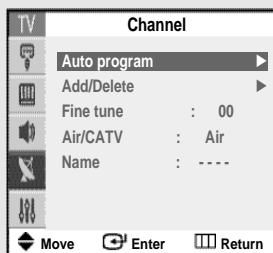
Press the ▲ or ▼ button to select "Air/CATV".

|  | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | ◀ Air ▶ |
| | Name | : - - - - |

◆ Move    ◆ Adjust    Return

## 3

Repeatedly press the ◀ or ▶ button to cycle through these choices: "Air" (antenna) "STD", "HRC" or "IRC" (all cable TV).

Press the EXIT button to exit the menu.

|  | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | ◀ Air ▶ |
| | Name | : - - - - |

◆ Move    ◆ Adjust    Return

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

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

## Storing Channels in Memory (Automatic Method)

### 1

First, select the correct signal source (Air, STD, HRC, IRC). See steps 1~3 on previous page.

| TV | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV ◀ | Air ▶ |
| | Name | : - - - - |

◆ Move   ◀▶ Adjust   ▥ Return

### 2

Press the ▲ or ▼ button to select "Auto Program".
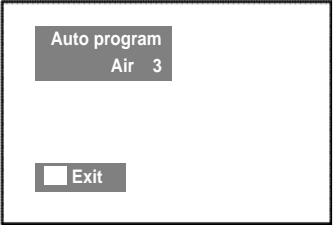
| TV | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | : Air |
| | Name | : - - - - |

◆ Move   ↵ Enter   ▥ Return

### 3

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

After all the available channels are stored, the channel menu reappears.

Press the EXIT button to exit the menu.

Auto program
Air   3

▭ Exit

◀ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes.

◀ Press the MENU button at any time to interrupt the memorization process and return to the channel menu.

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### Adding and Erasing Channels (Manual Method)

First, press the CH ∧ or CH ∨ button or the number buttons to select the channel you want to add or delete.

**1**

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

Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button.

| TV | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | : Air |
| | Name | : - - - - |

◆ Move    ⏎ Enter    ⊞ Return

**2**

Press the ▲ or ▼ button to select "Add/Delete", then press the **ENTER** button.

| TV | Add/Delete | |
|---|---|---|
| | Channel | ◀ Air 11 ▶ |
| | Select | : Deleted |

◆ Move    ◀▶ Adjust    ⊞ Return

**3**

Press the ◀ or ▶ button or the number buttons to select the channel you want to add or delete.

| TV | Add/Delete | |
|---|---|---|
| | Channel | ◀ Air 11 ▶ |
| | Select | : Deleted |

◆ Move    ◀▶ Adjust    ⊞ Return

**4**

Press the ▲ or ▼ button to select "Select", then press the ◀ or ▶ button to select "Added" or "Deleted".

Press the EXIT button to exit the menu.

| TV | Add/Delete | |
|---|---|---|
| | Channel | : Air 11 |
| | Select | ◀ Deleted ▶ |

◆ Move    ◀▶ Adjust    ⊞ Return

# Changing Channels

### Using the Channel Buttons

Press the **CH** ⌃ or **CH** ⌄ button to change channels.

When you press **CH** ⌃ or **CH** ⌄, 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.

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

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.

# 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 INFO 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.

> **Air  11**

## 2

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

Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button.

| TV | Channel | |
|----|---------|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | : Air |
| | Name | : - - - - |
| | ◆ Move   ⏎ Enter   ⊞ Return | |

◀  Note: You cannot select "Name" in the AV mode.

## 3

Press the ▲ or ▼ button to select "Name".
Press the ▶ button to begin labeling. The left-most field will be highlight.
(Each label has four fields. See top paragraph.)

| TV | Channel | |
|----|---------|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | : Air |
| | Name | : - - - - |
| | ◆ Move   ◀▶ Adjust   ⊞ Return | |

## 4

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

| TV | Channel | |
|----|---------|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | : Air |
| | Name | ◀ P- - -  ▶ |
| | ◀▶ Move   ◆ Adjust   ⊞ Return | |

## 5

Press the ▶ button to switch to the next field, which will be highlight.
Select a second letter or digit using the ▲ or ▼ button, as above.
Repeat the process to select the last two digits.

Press the EXIT button to exit the menu.

| TV | Channel | |
|----|---------|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | : Air |
| | Name | ◀ PB S 1  ▶ |
| | ◀▶ Move   ◆ Adjust   ⊞ Return | |

# 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 the **INFO** button.)

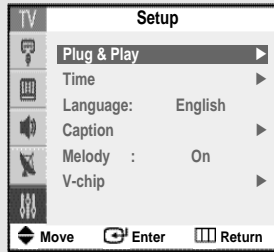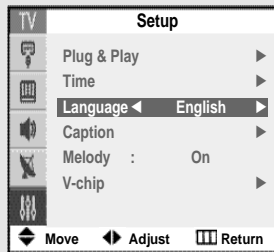## Option 1: Setting the Clock Manually

### 1
Press the **MENU** button to display the menu.

Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

| TV | Setup | |
|----|-------|--|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: English | |
| | Caption | ▶ |
| | Melody : On | |
| | V-chip | ▶ |
| ◆ Move | ↩ Enter | ▥ Return |

### 2
Press the ▲ or ▼ button to select "Time", then press the **ENTER** button.

| TV | Time | |
|----|------|--|
| | Clock | - - : - - am |
| | On Timer | - - : - - am Off |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◆ Move | ↩ Enter | ▥ Return |
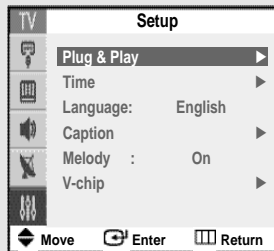
### 3
Press the ◀ or ▶ button to move to "Hour" or "Minute". Set the clock you want by pressing the ▲ or ▼ button, then press the ◀ or ▶ button.

Press the EXIT button to exit the menu.

| TV | Time | |
|----|------|--|
| | Clock | 10 : 30 am |
| | On Timer | - - : - - am Off |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◀▶ Move | ◆ Adjust | ▥ Return |

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

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

The current time will appear every time you press the INFO button.

## Option 2: Setting the Clock Automatically

The Clock can be set automatically if you are receiving a digital signal.

**1**

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

Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

| TV | Setup | |
|---|---|---|
| | **Plug & Play** | ▶ |
| | Time | ▶ |
| | Language: | English |
| | Caption | ▶ |
| | Melody : | On |
| | V-chip | ▶ |
| ♦ Move | Enter | Return |

**2**

Press the ▲ or ▼ button to select "Time", then press the **ENTER** button.

| TV | Time | |
|---|---|---|
| | **Clock** | - - : - - am |
| | On Timer | - - : - - am Off |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ♦ Move | Enter | Return |

**3**
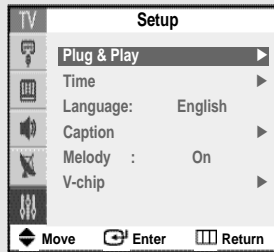
Press the ▲ or ▼ button to select "Auto Clock Set", then press the **ENTER** button.

| TV | Auto Clock Set | |
|---|---|---|
| | **Auto Clock Set** | ◀ Off ▶ |
| | PBS Channel | : Air - - - |
| | Time Zone | : ATL. |
| | DST | : No |
| ♦ Move | ◀▶ Adjust | Return |

**4**

Press the ◀ or ▶ button to select "On".

| TV | Auto Clock Set | |
|---|---|---|
| | **Auto Clock Set** | ◀ On ▶ |
| | PBS Channel | : Air - - - |
| | Time Zone | : ATL. |
| | DST | : No |
| ♦ Move | ◀▶ Adjust | Return |

◀ Certain broadcasts may not transmit the correct time. In this case, set the time manually.

## 5

Press the ▲ or ▼ button to
select "PBS Channel", then
press the ◄ or ► button to
select your local PBS channel.

| TV | Auto Clock Set | |
|----|----|----|
| | Auto Clock Set | : On |
| | PBS Channel | ◄ Air  - - - ► |
| | Time Zone | : ATL. |
| | DST | : No |
| | | |
| | | |
| ◆ Move | ◆▶ Adjust | ▥ Return |

## 6

Press the ▲ or ▼ button to
select "Time Zone", then press
the ◄ or ► button to select the
time zone for your local area.

  ATL.  : Atlantic
  EAST  : Eastern
  CEN.  : Central
  MTN.  : Mountain
  PAC.  : Pacific
  ALAS. : Alaska
  HAW.  : Hawaii

| TV | Auto Clock Set | |
|----|----|----|
| | Auto Clock Set | : On |
| | PBS Channel | : Air    3 |
| | Time Zone | ◄  ATL. ► |
| | DST | : No |
| | | |
| ◆ Move | ◆▶ Adjust | ▥ Return |

◄  The set time can be changed
according to the broadcasting station
and signal when you set up auto
time.
If there is a difference between the
real time and set time, please set up
manual time.

## 7

Press the ▲ or ▼ button to
select "DST" (**D**aylight
**S**aving **T**ime), then press
the ◄ or ► button to select
"Yes" or "No".

Press the EXIT button to
exit the menu.

| TV | Auto Clock Set | |
|----|----|----|
| | Auto Clock Set | : On |
| | PBS Channel | : Air    3 |
| | Time Zone | : ATL. |
| | DST | ◄ Yes ► |
| | | |
| ◆ Move | ◆▶ Adjust | ▥ Return |

# Customizing the Picture

You can use the on-screen menus to change the Contrast, Brightness, Sharpness, Color, Tint and  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.

Press the ▲ or ▼ button to select "Picture", then press the **ENTER** button.

| TV | **Picture** | |
|----|----|----|
| | Mode | ◀ Dynamic ▶ |
| | Custom | ▶ |
| | Color tone | :Warm1 |
| | Size | : Wide |
| | Digital NR | : On |
| | Tilt | : 0 |
| ♦ Move | ◀▶ Adjust | ▥ Return |

## 2
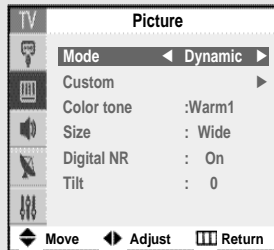
Press the ▲ or ▼ button to select "Custom", then press the **ENTER** button. (The words Contrast, Brightness, Sharpness, Color and Tint will appear on the screen.)

| TV | **Custom** | |
|----|----|----|
| | Contrast | ◀ 100 ▶ |
| | Brightness | : 45 |
| | Sharpness | : 60 |
| | Color | : 50 |
| | Tint | : R 50 G 50 |
| ♦ Move | ◀▶ Adjust | ▥ Return |

## 3

Press the ▲ or ▼ button to select a particular item.

| TV | **Custom** | |
|----|----|----|
| | Contrast | ◀ 100 ▶ |
| | Brightness | : 45 |
| | Sharpness | : 60 |
| | Color | : 50 |
| | Tint | : R 50 G 50 |
| ♦ Move | ◀▶ Adjust | ▥ Return |

## 4

Press the ◀ or ▶ button to increase or decrease the value of a particular item.
For example, if you select "Contrast", pressing the ▶ button increases it.

Press the EXIT button to exit the menu.

| Contrast | 100 |
|----|----|
| ▭ Move | ▭ Adjust ▭ Return |
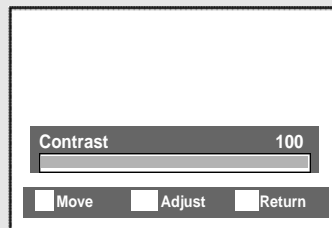
◀ After adjusting an item, the gauge will automatically disappear (after about 10 seconds).

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# Using Automatic Picture Settings

Your TV has three automatic picture settings ("Dynamic", "Standard" and "Movie" ) that are preset at the factory. You can activate either Dynamic, Standard, Movie or Custom by pressing the P.MODE button (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.

Press the ▲ or ▼ button to select "Picture", then press the **ENTER** button.

| TV | Picture | |
|---|---|---|
| | **Mode** | **◄ Dynamic ►** |
| | Custom | ► |
| | Color tone | :Warm1 |
| | Size | : Wide |
| | Digital NR | : On |
| | Tilt | : 0 |
| | ◆ Move   ◀▶ Adjust   ▥ Return | |

## 2
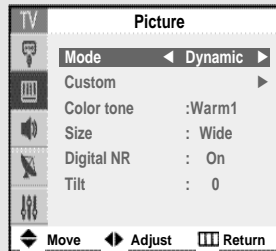
Press the ◄ or ► button to select the "Dynamic" "Standard" "Movie" or "Custom" picture setting.
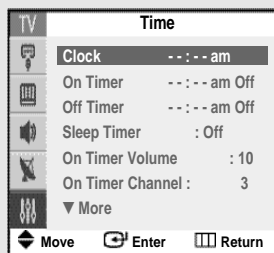
Press the EXIT button to exit the menu.

| TV | Picture | |
|---|---|---|
| | **Mode** | **◄ Custom ►** |
| | Custom | ► |
| | Color tone | :Warm1 |
| | Size | : Wide |
| | Digital NR | : On |
| | Tilt | : 0 |
| | ◆ Move   ◀▶ Adjust   ▥ Return | |
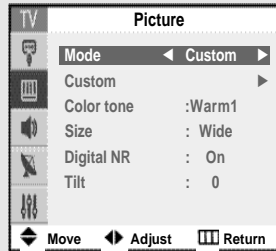
• Choose *Dynamic* for viewing the TV during the day or when there is bright light in the room.

• Choose *Standard* for the standard factory settings.

• Choose *Movie* when viewing the movie.

• Choose *Custom* if you want to adjust the settings according to personal preference (see "Customizing the Picture", page 34).

# Adjusting the Volume

Press the **VOL +** or **VOL –** button to increase or decrease the volume.

### Using the MUTE Button

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

**1**

Press the **MUTE** button and the sound cuts off.
The word "Mute" will appear in the lower-left corner of the screen.
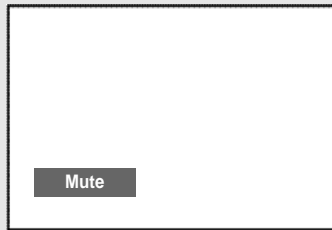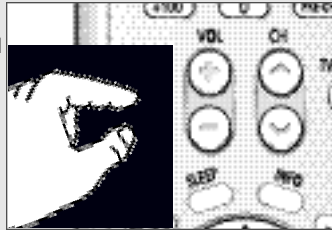
Mute

**2**

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

## Customizing the Sound

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

**1**

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

Press the ▲ or ▼ button to select the "Sound", then press the **ENTER** button.

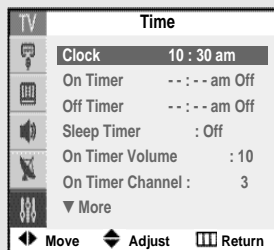| TV | Sound | |
|---|---|---|
| | **Mode** | **◄ Custom ►** |
| | Equalizer | ► |
| | MTS | : Stereo |
| | Auto volume | : Off |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| ♦ Move | ◄► Adjust | ▥ Return |

**2**
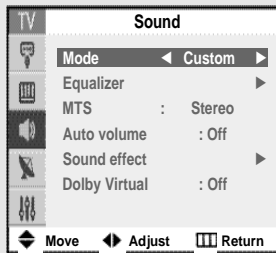
Press the ▲ or ▼ button to select "Equalizer", then press the **ENTER** button.

| TV | Equalizer |
|---|---|
| ◄► Move | ♦ Adjust ▥ Return |

**3**

Press the ◄ or ► button to select a particular item.

| TV | Equalizer |
|---|---|
| ◄► Move | ♦ Adjust ▥ Return |

**4**

Press the ▲ or ▼ button to increase or decrease the value of a particular item.

Press the EXIT button to exit the menu.

| TV | Equalizer |
|---|---|
| ◄► Move | ♦ Adjust ▥ Return |

37
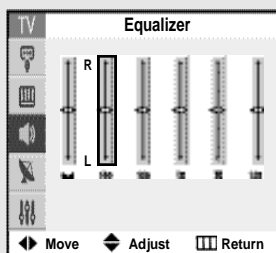
## Using Automatic Sound Settings

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

### 1

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

Press the ▲ or ▼ button to select the "Sound", then press the **ENTER** button.

| TV | Sound | |
|----|-------|---|
| | Mode | ◄ Custom ► |
| | Equalizer | ► |
| | MTS : | Stereo |
| | Auto volume | : Off |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| | ♦ Move ◄► Adjust ▥ Return | |

### 2
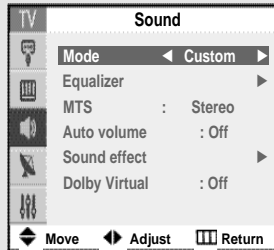
Press the ◄ or ► button to select the "Standard", "Music" "Movie", "Speech" or "Custom" sound settings.

Press the EXIT button to exit the menu.

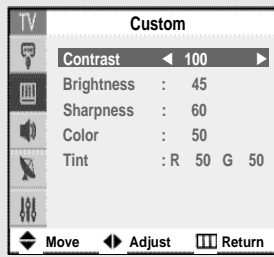| TV | Sound | |
|----|-------|---|
| | Mode | ◄ Music ► |
| | Equalizer | ► |
| | MTS : | Stereo |
| | Auto volume | : Off |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| | ♦ Move ◄► Adjust ▥ Return | |
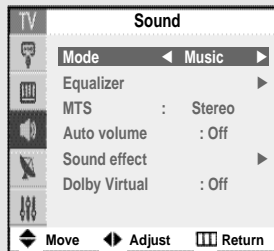
- Choose *Standard* for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose *Movie* when watching movie.
- Choose *Speech* when watching a show that is mostly dialogue (i.e., news).
- Choose *Custom* to recall your personalized settings.
  (see "Customizing the Sound", page 37).

# Viewing an External Signal Source

Use the remote control to switch between viewing signals from connected equipment, such as VCRs, DVD, Set-Top Box and the TV source (broadcast or cable).

## Setting the Signal Source

**1**

Press the **MENU** button to display menu, then press the **ENTER** button.

| | Input | |
|---|---|---|
| | Source List : | TV ▶ |
| | Edit Name | ▶ |

◆ Move    ⏎ Enter    ▥ Return
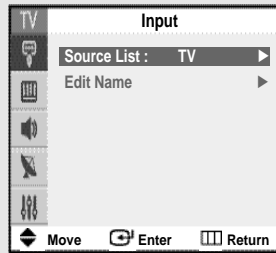
**2**

Press the **ENTER** button again. Press the ▲ or ▼ button to select signal source, then press the **ENTER** button.

| Source List | |
|---|---|
| **TV** | |
| AV1 | - - - - |
| AV2 | - - - - |
| AV3 | - - - - |
| S-Video | - - - - |
| COMPONENT1 | - - - - |
| ▼ More | |

◆ Move    ⏎ Enter    ▥ Return
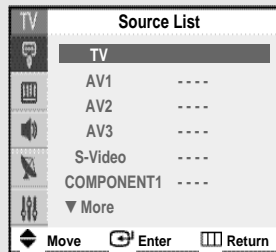
**Alternate method:**
Simply press the **TV/VIDEO** or **TV/COMPO-NENT** button on the remote control to select an External Signal Source.

AV1
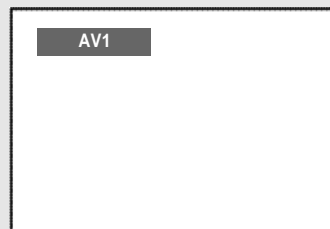
## Assigning Names to External input mode

**1**

Press the **MENU** button to display menu, then press the **ENTER** button.

| TV | Input | |
|---|---|---|
| | **Source List :** TV | ▶ |
| | Edit Name | ▶ |

◆ Move  ⏎ Enter  ⊞ Return

**2**
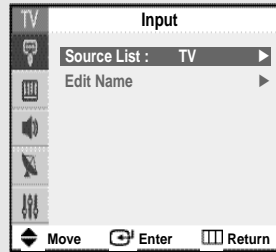
Press the ▲ or ▼ button to select the "Edit Name", then press the **ENTER** button.

| TV | Edit Name | | |
|---|---|---|---|
| | **AV1** | ◀ - - - - ▶ | |
| | AV2 | : - - - - | |
| | AV3 | : - - - - | |
| | S-Video | : - - - - | |
| | COMPONENT1 | : - - - - | |
| | COMPONENT2 | : - - - - | |

◆ Move  ◀▶ Adjust  ⊞ Return

**3**
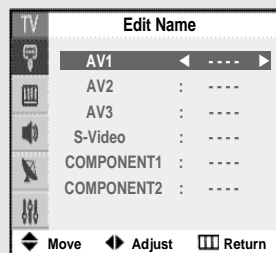
Press the ▲ or ▼ button to select the source list.

| TV | Edit Name | | |
|---|---|---|---|
| | **AV1** | ◀ - - - - ▶ | |
| | AV2 | : - - - - | |
| | AV3 | : - - - - | |
| | S-Video | : - - - - | |
| | COMPONENT1 | : - - - - | |
| | COMPONENT2 | : - - - - | |

◆ Move  ◀▶ Adjust  ⊞ Return

**4**
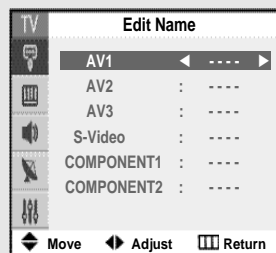
Press the ◀ or ▶ button to select external device (VCR, DVD, Cable STB, Sat. STB, AV Recv., DVD Recv., Game, Camcorder, DVD Combo).

Set other signal sources (AV2, AV3, S-Video, COMPONENT1, COMPONENT2) using the same method as listed above.

Press the EXIT button to exit the menu.

| TV | Edit Name | | |
|---|---|---|---|
| | **AV1** | ◀ VCR ▶ | |
| | AV2 | : - - - - | |
| | AV3 | : - - - - | |
| | S-Video | : - - - - | |
| | COMPONENT1 | : - - - - | |
| | COMPONENT2 | : - - - - | |

◆ Move  ◀▶ Adjust  ⊞ Return
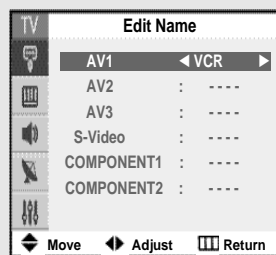
## Fine Tuning Channels

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

### 1

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

Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button.

| TV | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | : 00 |
| | Air/CATV | : Air |
| | Name | : - - - - |

◆ Move    ⏎ Enter    ▥ Return

### 2

Press the ▲ or ▼ button to select "Fine tune".

| TV | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | ◀ 00 ▶ |
| | Air/CATV | : Air |
| | Name | : - - - - |

◆ Move    ◀▶ Adjust    ▥ Return

### 3

Press the ◀ or ▶ button to adjust the fine tuning.

| TV | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | ◀ + 01 ▶ |
| | Air/CATV | : Air |
| | Name | : - - - - |

◆ Move    ◀▶ Adjust    ▥ Return

### 4

To store the fine tuning setting in the TV's memory, press the ▲ button. ("*" will appear).

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

Press the EXIT button to exit the menu.

| TV | Channel | |
|---|---|---|
| | Auto program | ▶ |
| | Add/Delete | ▶ |
| | Fine tune | ◀ + 01* ▶ |
| | Air/CATV | : Air |
| | Name | : - - - - |

◆ Add/Delete    ▥ Return
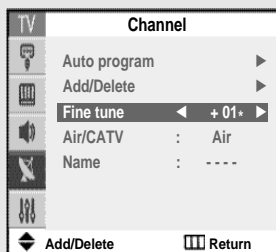
◀ After you adjust the fine tuning, "*" will appear when you press INFO while watching this channel.
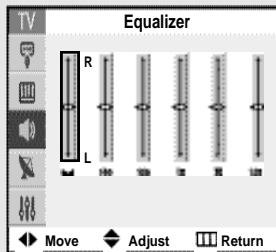
## Changing the Color Tone

### 1

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

Press the ▲ or ▼ button to select "Picture", then press the **ENTER** button.

```
TV          Picture
    Mode          ◄ Dynamic ►
    Custom                   ►
    Color tone    :  Warm1
    Size          :  Wide
    Digital NR    :  On
    Tilt          :  0

  ◆ Move   ◄► Adjust   ▥ Return
```
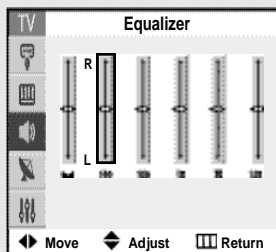
### 2
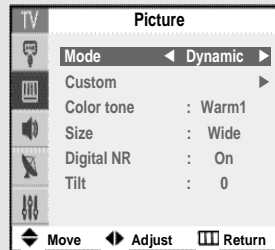
Press the ▲ or ▼ button to select "Color tone".

```
TV          Picture
    Mode          :  Dynamic
    Custom                   ►
    Color tone    ◄ Warm1 ►
    Size          :  Wide
    Digital NR    :  On
    Tilt          :  0

  ◆ Move   ◄► Adjust   ▥ Return
```

### 3

Press the ◄ or ► button to select "Cool2", "Cool1", "Normal", "Warm1" or "Warm2" according to personal preference.

Press the EXIT button to exit the menu.

```
TV          Picture
    Mode          :  Dynamic
    Custom                   ►
    Color tone    ◄ Warm1 ►
    Size          :  Wide
    Digital NR    :  On
    Tilt          :  0

  ◆ Move   ◄► Adjust   ▥ Return
```

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# Changing the Screen Size

## 1

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

Press the ▲ or ▼ button to select "Picture", then press the **ENTER** button.

| TV | Picture | |
|---|---|---|
| | Mode | ◄ Dynamic ► |
| | Custom | ► |
| | Color tone | : Warm1 |
| | Size | : Wide |
| | Digital NR | : On |
| | Tilt | : 0 |
| ♦ Move | ◄► Adjust | ▥ Return |

## 2

Press the ▲ or ▼ button to select "Size".

| TV | Picture | |
|---|---|---|
| | Mode | : Dynamic |
| | Custom | ► |
| | Color tone | : Warm1 |
| | Size | ◄ Wide ► |
| | Digital NR | : On |
| | Tilt | : 0 |
| ♦ Move | ◄► Adjust | ▥ Return |

## 3
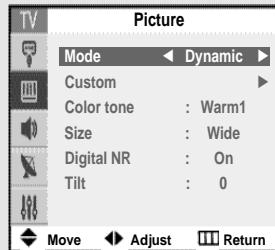
Press the ◄ or ► button to select "Wide", "Panorama (Depending on the model)", "Zoom1", "Zoom2", or "4:3" (Normal).

Press the EXIT button to exit the menu.

| TV | Picture | |
|---|---|---|
| | Mode | : Dynamic |
| | Custom | ► |
| | Color tone | : Warm1 |
| | Size | ◄ Wide ► |
| | Digital NR | : On |
| | Tilt | : 0 |
| ♦ Move | ◄► Adjust | ▥ Return |

**Alternate method:**
Simply press the **P.SIZE** button on the remote control to change a screen size.

Wide

- Wide:          Sets the picture to 16:9 wide mode.
- Panorama:     Use this mode for the wide aspect ratio of a panoramic picture.
                (Option)
- Zoom1:        Magnifies the size of the picture on screen.
                You can also move the picture on screen using the ▲ or ▼ button on the
                remote control.
- Zoom2:        Magnifies the size of the picture more than Zoom1.
                You can also move the picture on screen using the ▲ or ▼ button on the
                remote control.
- 4:3(Normal):  Sets the picture to 4:3 normal mode.

## 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 ▲ or ▼ button to select "Picture", then press the **ENTER** button.

| | Picture | |
|---|---|---|
| Mode | ◄ Dynamic | ► |
| Custom | | ► |
| Color tone | : Warm1 | |
| Size | : Wide | |
| Digital NR | : On | |
| Tilt | : 0 | |

◆ Move    ◀▶ Adjust    ▥ Return

### 2
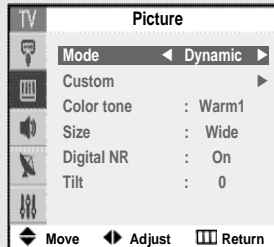
Press the ▲ or ▼ button to select "Digital NR".

| | Picture | |
|---|---|---|
| Mode | : Dynamic | |
| Custom | | ► |
| Color tone | : Warm1 | |
| Size | : Wide | |
| Digital NR | ◄ On | ► |
| Tilt | : 0 | |

◆ Move    ◀▶ Adjust    ▥ Return

### 3

Press the ◄ or ► button to select "On" or "Off".

Press the EXIT button to exit the menu.

| | Picture | |
|---|---|---|
| Mode | : Dynamic | |
| Custom | | ► |
| Color tone | : Warm1 | |
| Size | : Wide | |
| Digital NR | ◄ Off | ► |
| Tilt | : 0 | |

◆ Move    ◀▶ Adjust    ▥ Return

## Tilt

Due to the Earth's magnetic field there may be same 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.

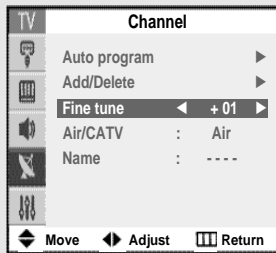Press the ▲ or ▼ button to select "Picture", then press the **ENTER** button.

| | Picture | |
|---|---|---|
| Mode | ◄ Dynamic | ► |
| Custom | | ► |
| Color tone | : Warm1 | |
| Size | : Wide | |
| Digital NR | : On | |
| Tilt | : 0 | |

◆ Move  ◀▶ Adjust  ▥ Return

**2**

Press the ▲ or ▼ button to select "Tilt".

| | Picture | |
|---|---|---|
| Mode | : Dynamic | |
| Custom | | ► |
| Color tone | : Warm1 | |
| Size | : Wide | |
| Digital NR | : Off | |
| Tilt | ◄ 0 | ► |

◆ Move  ◀▶ Adjust  ▥ Return

**3**
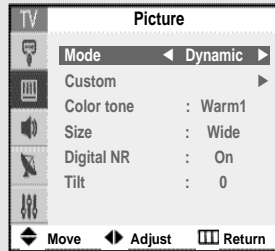
Press the ◄ or ► button to adjust the Tilt.

Press the EXIT button to exit the menu.

| | Picture | |
|---|---|---|
| Mode | : Dynamic | |
| Custom | | ► |
| Color tone | : Warm1 | |
| Size | : Wide | |
| Digital NR | : Off | |
| Tilt | ◄ 2 | ► |

◆ Move  ◀▶ Adjust  ▥ Return

## Using the R.Surf Feature

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

### 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".

> **Surf     Off**
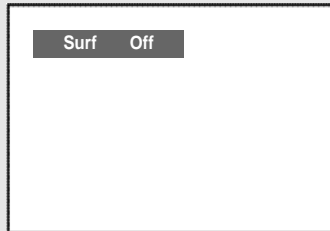
### 2

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

> **Surf     1: 30**

◄ The time will be decreasing while you are setting up the timer. And you will reset it when you pass five minutes or turn it off.

### 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.

## Freezing the Picture

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

Press again to cancel.

◄ Note: The still function doesn't operate in the COMPONENT mode.

## 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.)
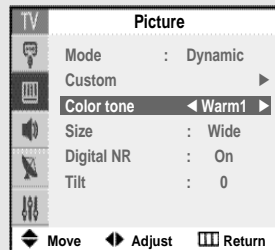
### 1

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

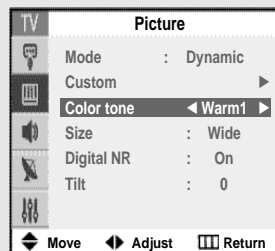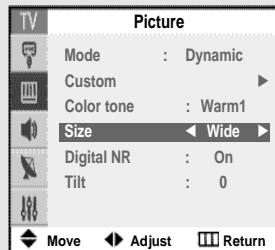Press the ▲ or ▼ button to select the "Sound", then press the **ENTER** button.

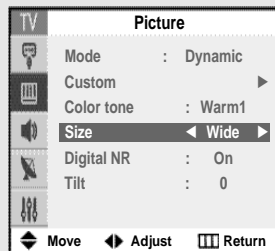| TV | Sound | |
|---|---|---|
| | **Mode** | ◄ Standard ► |
| | Equalizer | ► |
| | MTS | : Stereo |
| | Auto volume | : Off |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| ◆ Move | ◀▶ Adjust | ▥ Return |

### 2

Press the ▲ or ▼ button to select "MTS".

| TV | Sound | |
|---|---|---|
| | Mode | : Standard |
| | Equalizer | ► |
| | **MTS** | ◄ Stereo ► |
| | Auto volume | : Off |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| ◆ Move | ◀▶ Adjust | ▥ Return |

### 3
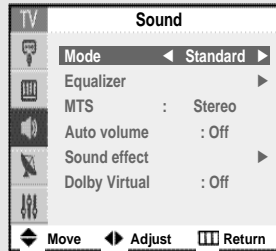
Press the ◄ or ► button to select "Mono", "Stereo" or "SAP".

Press the EXIT button to exit the menu.

| TV | Sound | |
|---|---|---|
| | Mode | : Standard |
| | Equalizer | ► |
| | **MTS** | ◄ Stereo ► |
| | Auto volume | : Off |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| ◆ Move | ◀▶ Adjust | ▥ Return |

**Alternate method:**
Simply press the **MTS** button on the remote control to select the MTS setting.

MTS    : Stereo
Signal    : Stereo
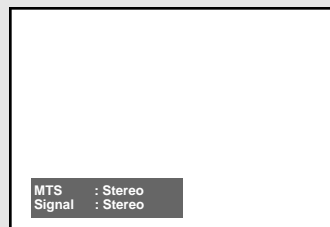
◄ The text at the bottom of the menu tells you if the incoming audio is Mono, Stereo or SAP.

- Choose *Mono* for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose *Stereo* for channels that are broadcasting in stereo.
- Choose *SAP* to listen to the Separate Audio Program, which is usually a foreign-language translation.

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## Adjusting the Volume Automatically

Each broadcasting station has its own signal conditions, which can make it necessary to adjust the volume every time the channel is changed. "Auto volume" lets you automatically adjust the volume of the desired channel by lowering the sound out put when the modulation signal is high or by raising the sound output when the modulation signal is low.
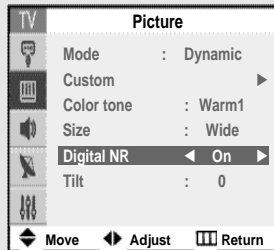
**1**

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

Press the ▲ or ▼ button to select the "Sound", then press the **ENTER** button.

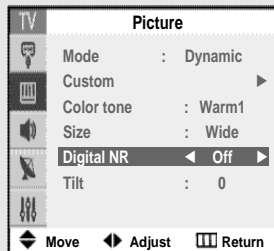| TV | Sound | |
|---|---|---|
| | Mode | ◄ Standard ► |
| | Equalizer | ► |
| | MTS | : Stereo |
| | Auto volume | : Off |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| ◆ Move | ◀▶ Adjust | ⊞ Return |

**2**
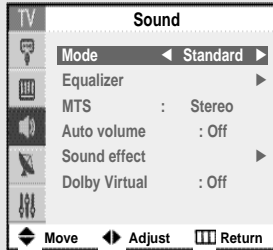
Press the ▲ or ▼ button to select "Auto volume".

| TV | Sound | |
|---|---|---|
| | Mode | : Standard |
| | Equalizer | ► |
| | MTS | : Stereo |
| | Auto volume | ◄ Off ► |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| ◆ Move | ◀▶ Adjust | ⊞ Return |

**3**

Press the ◄ or ► button to select "On" or "Off".

Press the EXIT button to exit the menu.

| TV | Sound | |
|---|---|---|
| | Mode | : Standard |
| | Equalizer | ► |
| | MTS | : Stereo |
| | Auto volume | ◄ On ► |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| ◆ Move | ◀▶ Adjust | ⊞ Return |

## Setting the Surround

Your Samsung TV can create a "surround" effect such that the sound seems to come from all directions. Once the "Surround" is set to "On", the setting applies to sound effects such as Standard, Music, Movie and Speech.
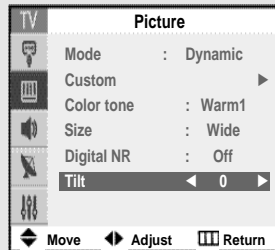
**1**

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

Press the ▲ or ▼ button to select the "Sound", then press the **ENTER** button.

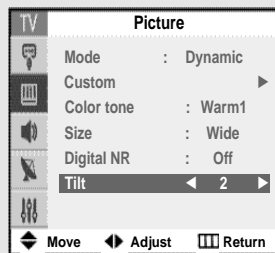| TV | Sound | |
|---|---|---|
| | Mode | ◄ Standard ► |
| | Equalizer | ► |
| | MTS | : Stereo |
| | Auto volume | : Off |
| | Sound effect | ► |
| | Dolby Virtual | : Off |
| ◆ Move | ◀▶ Adjust | ⊞ Return |

**2**

Press the ▲ or ▼ button to select "Sound effect" then press the **ENTER** button.

| TV | Sound effect | | |
|---|---|---|---|
| | Surround | ◄ | Off ► |
| | Turbo sound | : | Off |

♦ Move   ◄► Adjust   ⊞ Return

**3**

Press the ◄ or ► button to select "On" or "Off".

Press the EXIT button to exit the menu.

| TV | Sound effect | | |
|---|---|---|---|
| | Surround | ◄ | On ► |
| | Turbo sound | : | Off |

♦ Move   ◄► Adjust   ⊞ Return
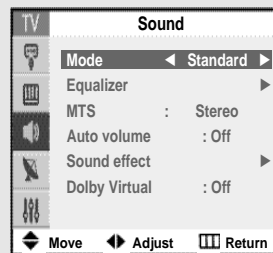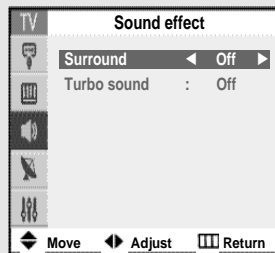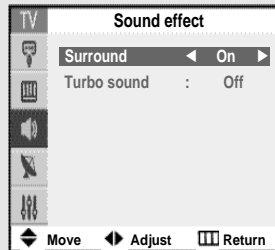
## Setting the Turbo Sound

Turbo sound emphasizes the bass and treble frequencies to add fullness to the sound.

**1**

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

Press the ▲ or ▼ button to select the "Sound", then press the **ENTER** button.

| TV | Sound | | |
|---|---|---|---|
| | Mode | ◄ | Standard ► |
| | Equalizer | | ► |
| | MTS | : | Stereo |
| | Auto volume | | : Off |
| | Sound effect | | ► |
| | Dolby Virtual | | : Off |

♦ Move   ◄► Adjust   ⊞ Return

**2**

Press the ▲ or ▼ button to select "Sound effect" then press the **ENTER** button.

| TV | Sound effect | | |
|---|---|---|---|
| | Surround | ◄ | Off ► |
| | Turbo sound | : | Off |

♦ Move   ◄► Adjust   ⊞ Return

**3**
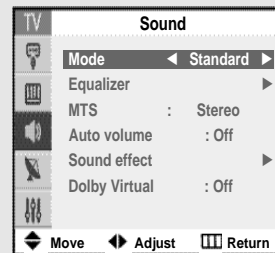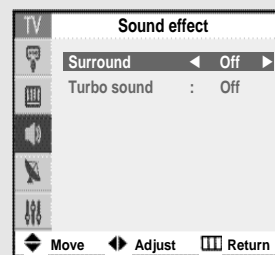
Press the ▲ or ▼ button to select "Turbo sound".
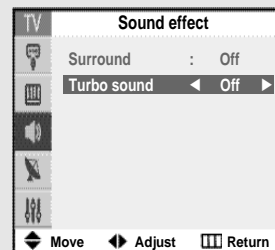
| TV | Sound effect | | |
|---|---|---|---|
| | Surround | : | Off |
| | Turbo sound | ◄ | Off ► |

♦ Move   ◄► Adjust   ⊞ Return

**4**

Press the ◄ or ► button to select "On" or "Off".

Press the EXIT button to exit the menu.

| TV | Sound effect | | |
|---|---|---|---|
| | Surround | : | Off |
| | **Turbo sound** | ◄ | **On** ► |

**♦ Move    ◄► Adjust    ▥ Return**
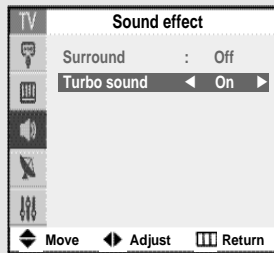
**Alternate method:**
Simply press the **TURBO** button on the remote control to select the Turbo sound setting.
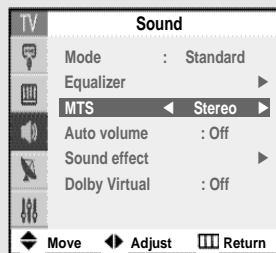
Turbo : On
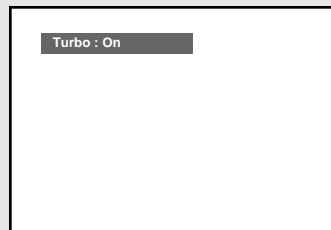
## Setting the Dolby Virtual

**1**

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

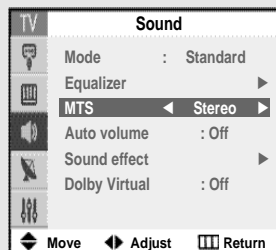Press the ▲ or ▼ button to select the "Sound", then press the **ENTER** button.

| TV | Sound | | |
|---|---|---|---|
| | **Mode** | ◄ **Standard** ► |
| | Equalizer | ► |
| | MTS | : | Stereo |
| | Auto volume | : Off |
| | Sound effect | ► |
| | Dolby Virtual | : Off |

**♦ Move    ◄► Adjust    ▥ Return**

**2**

Press the ▲ or ▼ button to select "Dolby Virtual".

| TV | Sound | | |
|---|---|---|---|
| | Mode | : | Standard |
| | Equalizer | ► |
| | MTS | : | Stereo |
| | Auto volume | : Off |
| | Sound effect | ► |
| | **Dolby Virtual** | ◄ **Off** ► |

**♦ Move    ◄► Adjust    ▥ Return**

**3**

Press the ◄ or ► button to select "On" or "Off".

Press the EXIT button to exit the menu.

| TV | Sound | | |
|---|---|---|---|
| | Mode | : | Standard |
| | Equalizer | ► |
| | MTS | : | Stereo |
| | Auto volume | : Off |
| | Sound effect | ► |
| | **Dolby Virtual** | ◄ **On** ► |

**♦ Move    ◄► Adjust    ▥ Return**

## Setting the On/Off Timer

**1**

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

Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

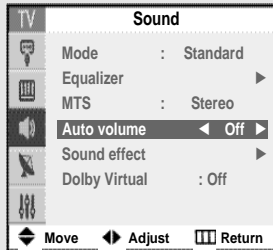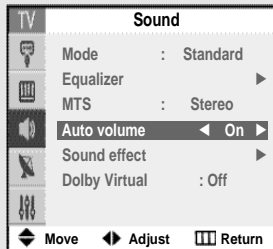| TV | Setup | |
|---|---|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: | English |
| | Caption | ▶ |
| | Melody : | On |
| | V-chip | ▶ |
| ◆ Move | ⮐ Enter | ▥ Return |

◀ Before using the timer, you must set the TV's clock. (See "Setting the Clock" on page 31).

When any of the timers are set, the "Timer" LED will illuminate (front panel of TV.)

**2**

Press the ▲ or ▼ button to select "Time", then press the **ENTER** button.

| TV | Time | |
|---|---|---|
| | Clock | 10 : 30 am |
| | On Timer | - - : - - am Off |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◆ Move | ⮐ Enter | ▥ Return |

**3**
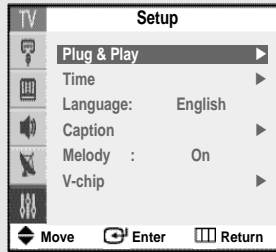
Press the ▲ or ▼ button to select "On Timer".

Press the ▶ button to select the hours. (The minutes digits will be highlighted.)
Press the ▲ or ▼ button repeatedly to select the appropriate hours (i.e., the hour when the TV will turn on.)

| TV | Time | |
|---|---|---|
| | Clock | 10 : 30 am |
| | On Timer | 06 : 00 am Off |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◀▶ Move | ◆ Adjust | ▥ Return |

**4**

Press the ▶ button to select the minutes. (The minutes digits will be highlighted.)
Press the ▲ or ▼ button to select the appropriate minutes.

| TV | Time | |
|---|---|---|
| | Clock | 10 : 30 am |
| | On Timer | 06 : 30 am Off |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◀▶ Move | ◆ Adjust | ▥ Return |

**5**
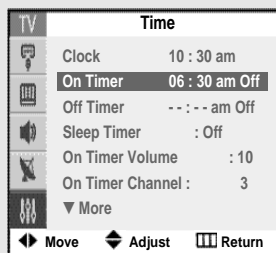
Press the ▶ button to select "On" or "Off".

Press the ▲ or ▼ button to turn the on-timer "On". (Repeatedly pressing the ▲ or ▼ button will alternate between "On" and "Off".)
When finished, press the ▶ button.

| TV | Time | |
|---|---|---|
| | Clock | 10 : 30 am |
| | On Timer | 06 : 30 am On |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◀▶ Move | ◆ Adjust | ▥ Return |

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

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## 6

To set the Off Timer, press the ▲ or ▼ button to select "Off Timer".
Press the ► button and set the hours and minutes. (Follow the same procedure as in steps 3~5 above.)

When finished setting the timer, Press the EXIT button to exit the menu.

| TV | Time | |
|----|------|--|
| | Clock | 10 : 30 am |
| | On Timer | 06 : 30 am On |
| | **Off Timer** | **- - : - - am Off** |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◆ Move | ◄► Adjust | Return |
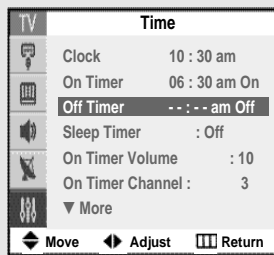
◄ **Absent Power Off**
When you set the timer "On", your television will eventually be turned off, if you do not operate any controls during the 3 hours after the TV is turned on by timer.
This function is available in only the timer "On" mode and will prevent a leakage accident or overheating, caused by your TV left on for a long time due to the timer "On" (when you are away on holiday, for example).

## Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).

## 1

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

Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

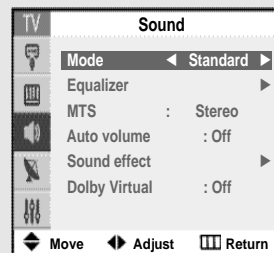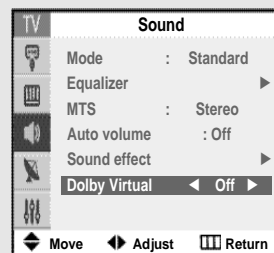| TV | Setup | |
|----|-------|--|
| | **Plug & Play** | **►** |
| | Time | ► |
| | Language: | English |
| | Caption | ► |
| | Melody : | On |
| | V-chip | ► |
| ◆ Move | ⏎ Enter | Return |

## 2

Press the ▲ or ▼ button to select "Time", then press the **ENTER** button.

| TV | Time | |
|----|------|--|
| | **Clock** | **10 : 30 am** |
| | On Timer | - - : - - am Off |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◆ Move | ⏎ Enter | Return |

## 3
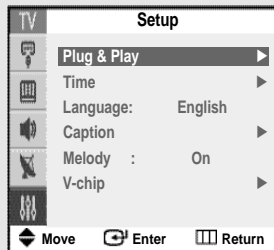
Press the ▲ or ▼ button to select "Sleep Timer".

Press the ◄ or ► button repeatedly until the appropriate time interval appears (any of the preset values from "Off" to "180"). Press the EXIT button to exit the menu.

| TV | Time | |
|----|------|--|
| | Clock | 10 : 30 am |
| | On Timer | - - : - - am Off |
| | Off Timer | - - : - - am Off |
| | **Sleep Timer** | **◄ 30 ►** |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◆ Move | ◄► Adjust | Return |

**Alternate method:**
Simply press the **SLEEP** button repeatedly until the appropriate time interval appears (any of the preset values from "Off" to "180).

| Sleep Timer 30 |
|---|
| |
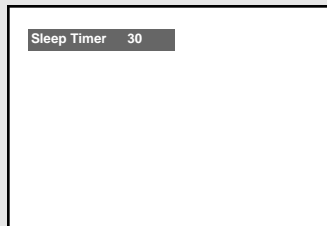
◄ After about 5 seconds, the sleep display will disappear from the screen, and the time interval will be set.

## Setting the Preferred Volume Level and Channel

The preferred volume and channel can be set for when the timer automatically turns on the TV.

**1**

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

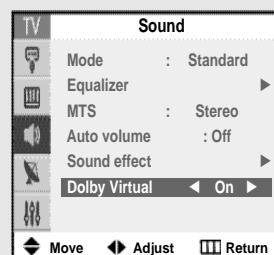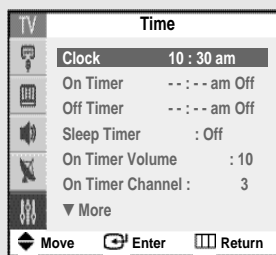Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

| TV | Setup | |
|----|-------|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: English | |
| | Caption | ▶ |
| | Melody : On | |
| | V-chip | ▶ |
| ◆ Move | ↵ Enter | ⊞ Return |

**2**

Press the ▲ or ▼ button to select "Time", then press the **ENTER** button.

| TV | Time | |
|----|------|---|
| | Clock | 10 : 30 am |
| | On Timer | 06 : 30 am On |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◆ Move | ↵ Enter | ⊞ Return |

**3**
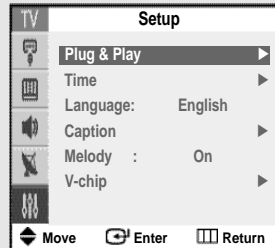
Press the ▲ or ▼ button to select "On Timer Volume".

Press the ◄ or ► button to adjust volume level.

| TV | Time | |
|----|------|---|
| | Clock | 10 : 30 am |
| | On Timer | 06 : 30 am On |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | ◄ 10 ► |
| | On Timer Channel : | 3 |
| | ▼ More | |
| ◆ Move | ◄► Adjust | ⊞ Return |

**4**

Press the ▲ or ▼ button to select "On Timer Channel".

Press the ◄ or ► button to select channel

Press the EXIT button to exit the menu.

| TV | Time | |
|----|------|---|
| | Clock | 10 : 30 am |
| | On Timer | 06 : 30 am On |
| | Off Timer | - - : - - am Off |
| | Sleep Timer | : Off |
| | On Timer Volume | : 10 |
| | On Timer Channel ◄ | 3 ► |
| | ▼ More | |
| ◆ Move | ◄► Adjust | ⊞ Return |
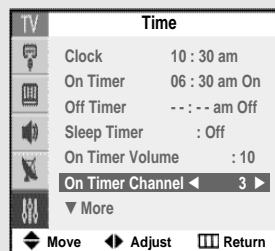
# Viewing Closed Captions

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 .

## 1

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

Press the ▲ or ▼ button to select the "Setup", then press the **ENTER** button.

| TV | Setup | |
|---|---|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: | English |
| | Caption | ▶ |
| | Melody : | On |
| | V-chip | ▶ |
| | ◆ Move ⏎ Enter Ⅲ Return | |

## 2
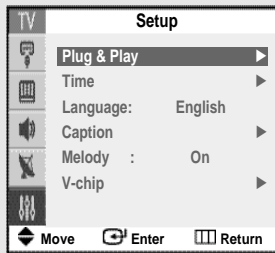
Press the ▲ or ▼ button to select the "Caption", then press the **ENTER** button.

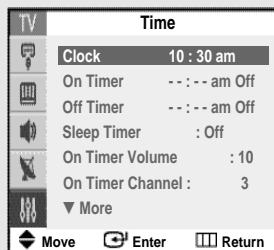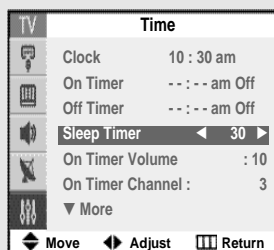| TV | Caption | |
|---|---|---|
| | Caption ◀ | Off ▶ |
| | Mode : Caption | |
| | Channel : | 1 |
| | Field : | 1 |
| | ◆ Move ◀▶ Adjust Ⅲ Return | |

## 3
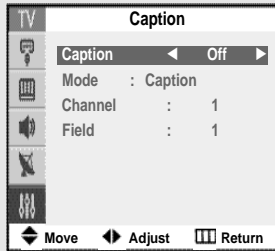
Press the ◀ or ▶ button to turn closed captioning "On" or "Off".

| TV | Caption | |
|---|---|---|
| | Caption ◀ | On ▶ |
| | Mode : Caption | |
| | Channel : | 1 |
| | Field : | 1 |
| | ◆ Move ◀▶ Adjust Ⅲ Return | |

◀ 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.

## 4
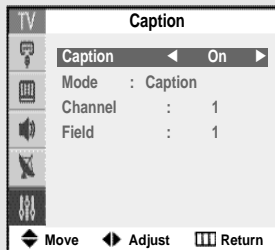
Press the ▲ or ▼ button to select "Mode", press the ◀ or ▶ button to select "Caption" or "Text".

| TV | Caption | |
|---|---|---|
| | Caption : | On |
| | Mode ◀ | Caption ▶ |
| | Channel : | 1 |
| | Field : | 1 |
| | ◆ Move ◀▶ Adjust Ⅲ Return | |

◀ 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.

## 5

Depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field":
Use the ▲, ▼, ◀ and ▶ buttons to make the changes.
(Follow the same procedure as in steps 3~4 above.)

Press the EXIT button to exit the menu.

◀ 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.)

## Setting The On/Off Melody

You can hear clear a melody sound when the TV is powered On or Off.

## 1

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

Press the ▲ or ▼ button to select the "Setup", then press the **ENTER** button.

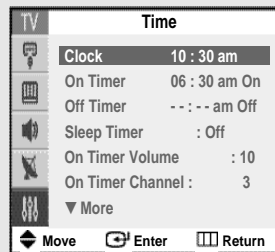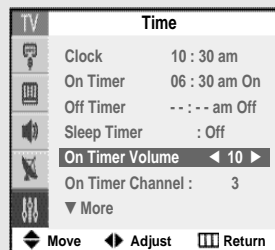| TV | Setup | |
|---|---|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: | English |
| | Caption | ▶ |
| | Melody : | On |
| | V-chip | ▶ |
| ◆ Move | ⊡ Enter | ⊞ Return |

## 2

Press the ▲ or ▼ button to select "Melody".

| TV | Setup | |
|---|---|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: | English |
| | Caption | ▶ |
| | Melody ◄ | On ▶ |
| | V-chip | ▶ |
| ◆ Move | ◄▶ Adjust | ⊞ Return |

## 3
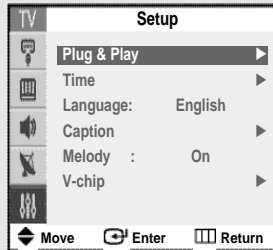
Press the ◄ or ▶ button to select "On"/ "Off".

Press the EXIT button to exit the menu.

| TV | Setup | |
|---|---|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: | English |
| | Caption | ▶ |
| | Melody ◄ | On ▶ |
| | V-chip | ▶ |
| ◆ Move | ◄▶ Adjust | ⊞ Return |

# Using the V-Chip

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

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

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

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

Press the ▲ or ▼ button to select the "Setup", then press the **ENTER** button.

| TV | Setup | |
|---|---|---|
| | Plug & Play | ▶ |
| | Time | ▶ |
| | Language: | English |
| | Caption | ▶ |
| | Melody : | On |
| | V-chip | ▶ |
| ◆ Move | ⏎ Enter | Ⅲ Return |

**2**
Press the ▲ or ▼ button to select the "V-Chip", then press the **ENTER** button.
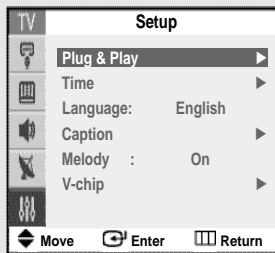
The "Enter Pin" screen will appear. Enter your 4-digit PIN number,

**Enter Pin**
**Enter Pin** **: - - - -**

Note: The default PIN number for a new TV set is **"0-0-0-0".**
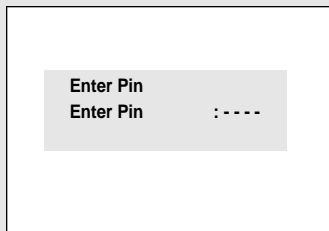
**3**
After entering a valid PIN number, the "V-Chip" screen will appear. Press the ▲ or ▼ button and select "Change Pin."

<USA>

| TV | V-chip | |
|---|---|---|
| | V-Chip Lock : No | |
| | TV Parental Guidelines | ▶ |
| | MPAARating | ▶ |
| | Change Pin | ▶ |
| ◆ Move | ⏎ Enter | Ⅲ Return |

<Canada>

| TV | V-chip | |
|---|---|---|
| | V-Chip Lock : No | |
| | TV Parental Guidelines | ▶ |
| | MPAARating | ▶ |
| | Canadian English | ▶ |
| | Canadian French | ▶ |
| | Change Pin | ▶ |
| ◆ Move | ⏎ Enter | Ⅲ Return |

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

**Change Pin**
**Enter New Pin** **: - - - -**

↓

**Confirm New Pin**
**Confirm New Pin** **: - - - -**

As soon as the 4 digits are entered, the "Confirm New Pin" screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your PIN has been memorized.
Press the EXIT button to exit the menu.
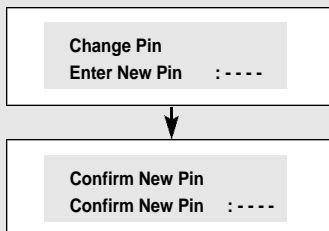
◄ Note: If you forget the PIN, press the remote-control keys in the following sequence, which resets the pin to 0-0-0-0:
POWER OFF ➜ MUTE ➜ 8 ➜ 2 ➜ 4 ➜ POWER ON.

## How to Enable/Disable the V-Chip

**1**

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

Press the ▲ or ▼ button to select the "Setup", then press the **ENTER** button.

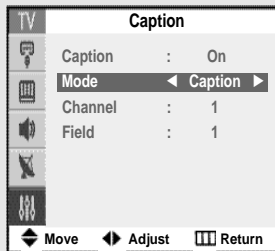| TV | Setup | |
|----|-------|---|
| | **Plug & Play** | ▶ |
| | Time | ▶ |
| | Language: English | |
| | Caption | ▶ |
| | Melody : On | |
| | V-chip | ▶ |

◆ Move   ↵ Enter   ▥ Return

**2**
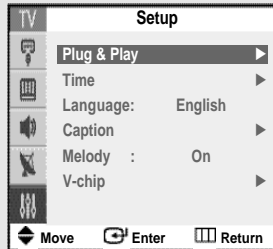
Press the ▲ or ▼ button to select the "V-Chip", then press the **ENTER** button.

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

**Enter Pin**
**Enter Pin** : - - - -
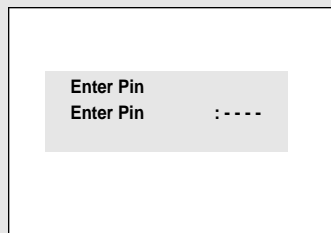
**3**

To enable the V-Chip feature, press the ▶ button so that the "V-Chip Lock" field is Yes. (Pressing the ▶ button will alternate between Yes and No.)

Press the EXIT button to exit the menu.

&lt;USA&gt;

| TV | V-chip | |
|----|--------|---|
| | **V-Chip Lock** ◀ **Yes** ▶ | |
| | TV Parental Guidelines | ▶ |
| | MPAARating | ▶ |
| | Change Pin | ▶ |

◆ Move   ↵ Enter   ▥ Return

&lt;Canada&gt;

| TV | V-chip | |
|----|--------|---|
| | **V-Chip Lock** ◀ **Yes** ▶ | |
| | TV Parental Guidelines | ▶ |
| | MPAARating | ▶ |
| | Canadian English | ▶ |
| | Canadian French | ▶ |
| | Change Pin | ▶ |

◆ Move   ↵ Enter   ▥ Return

## How to Set up Restrictions Using the "TV Parental 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:
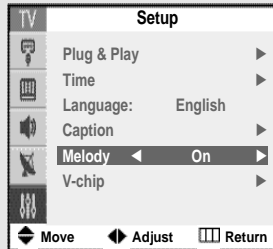The TV Parental Guidelines or the MPAA rating.

**1**

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

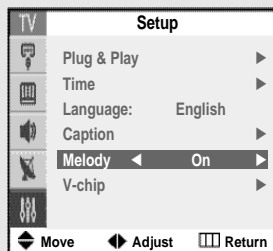Press the ▲ or ▼ button to select the "Setup", then press the **ENTER** button.

| TV | Setup | |
|----|-------|---|
| | **Plug & Play** | ▶ |
| | Time | ▶ |
| | Language: English | |
| | Caption | ▶ |
| | Melody : On | |
| | V-chip | ▶ |

◆ Move   ↵ Enter   ▥ Return

**2**

Press the ▲ or ▼ button to select the "V-Chip", then press the **ENTER** button.

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

**Enter Pin**
**Enter Pin** : - - - -

*continued...*

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**3**
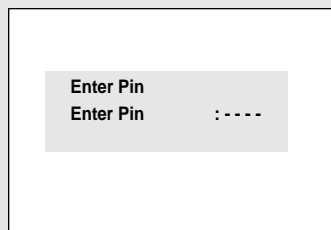
Press the ▲ or ▼ button to select the "TV Parental Guidelines", then press the **ENTER** button.

| TV | **TV Parental Guidelines** | | | | | | |
|---|---|---|---|---|---|---|---|
| | | All | FV | V | S | L | D |
| | TV-Y | ◄ U | | | | | ► |
| | TV-Y7 | : U | U | | | | |
| | TV-G | : U | | | | | |
| | TV-PG | : U | | U | U | U | U |
| | TV-14 | : U | | U | U | U | U |
| | TV-MA | : U | | U | U | U | |
| | B: Blocked | | | | | | |
| | U: Unblocked | | | | | | |
| | Young Children | | | | | | |
| ◆ Move | ◀▶ Adjust | | | ▥ Return | | | |

**4**

The "TV Parental Guidelines" screen will appear.
Press the ▲, ▼ buttons to select one of the six age-based categories:

TV-Y          Young children
TV-Y7        Children 7 and over
-----------------------------------
TV-G          General Audience
TV-PG        Parent guidance
TV-14         Viewers 14 and over
TV-MA        Mature Audience

| TV | **TV Parental Guidelines** | | | | | | |
|---|---|---|---|---|---|---|---|
| | | All | FV | V | S | L | D |
| | TV-Y | ◄ U | | | | | ► |
| | TV-Y7 | : U | U | | | | |
| | TV-G | : U | | | | | |
| | TV-PG | : U | | U | U | U | U |
| | TV-14 | : U | | U | U | U | U |
| | TV-MA | : U | | U | U | U | |
| | B: Blocked | | | | | | |
| | U: Unblocked | | | | | | |
| | Young Children | | | | | | |
| ◆ Move | ◀▶ Adjust | | | ▥ Return | | | |
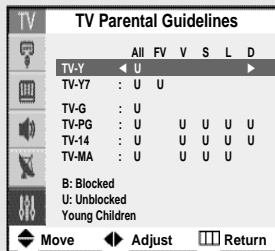
◄ Note: These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else).

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

**5**

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

Press the ▶ button: Depending on your existing setup, a letter "U" or "B" will be selected. (U= Unblocked, B= Blocked)

While the "U" or "B" is red, press the ▲ or ▼ button to block or unblock the category.

Press the ◀ button once to save the TV Parental Guidelines. A TV-Rating will be selected, and no letters will be selected. To exit this screen, press the **MENU** button again. To select a different TV-Rating, press the ▲ or ▼ button 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:  Adult language
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.)

## 6

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

First, select 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 selected , repeatedly press the ► button. This will cycle through the available sub-ratings (FV,L, S, D or V).

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

Press the ► button to save the TV Parental Guidelines. A TV-Rating will be selected, and no letters will be selected. To exit this screen, press the **MENU** button again. To select a different TV-Rating, press the ▲ or ▼ button 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 **EXIT** button 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, NR

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 ▲ or ▼ button to select the "Setup", then press the **ENTER** button.

| TV | Setup | |
|----|-------|---|
| | **Plug & Play** | ▶ |
| | Time | ▶ |
| | Language: English | |
| | Caption | ▶ |
| | Melody : On | |
| | V-chip | ▶ |
| ◆ Move | ⏎ Enter | ☐ Return |

## 2

Press the ▲ or ▼ button to select the "V-Chip", then press the **ENTER** button.

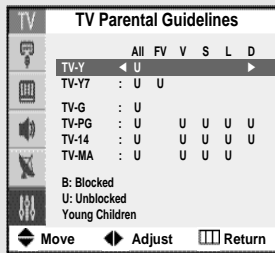The "Enter Pin" screen will appear. Enter your 4-digit PIN number.

**Enter Pin**
**Enter Pin** : - - - -

**3**
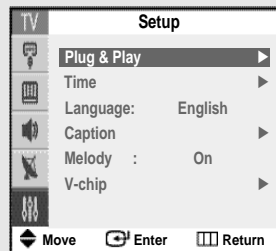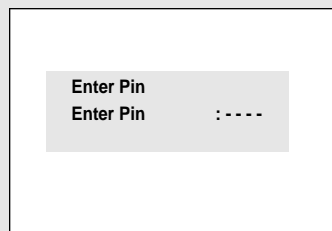
Press the ▲ or ▼ button to select the "MPAA Rating", then press the **ENTER** button.

| | MPAARating | | |
|---|---|---|---|
| | | B/U | |
| G | ◄ | U | ► |
| PG | : | U | |
| PG-13 | : | U | |
| R | : | U | |
| NC-17 | : | U | |
| X | : | U | |
| NR | : | U | |

B: Blocked
U: Unblocked
General audience

◆ Move     ◆▶ Adjust     ⊞ Return

◄ 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.

**4**

The "MPAA Rating" screen will appear. Repeatedly press the ▲ or ▼ button to select a particular MPAA category. Pressing the ▲ or ▼ button will cycle through the MPAA categories:

| | MPAARating | | |
|---|---|---|---|
| | | B/U | |
| G | ◄ | U | ► |
| PG | : | U | |
| PG-13 | : | U | |
| R | : | U | |
| NC-17 | : | U | |
| X | : | U | |
| NR | : | U | |

B: Blocked
U: Unblocked
General audience

◆ Move     ◆▶ Adjust     ⊞ Return

| | |
|---|---|
| **G** | General audience. |
| **PG** | Parental guidance suggested. |
| **PG-13** | Parents strongly cautioned. |
| **R** | Restricted. Children under 17 requires. to be accompanied by an adult. |
| **NC-17** | No children under age 17 admitted. |
| **X** | Adults only. |
| **NR** | Not rated. |

While a particular category is selected, press ▶ to activate it. A letter ("U" or "B") will be selected. Press the ▲ or ▼ button to select "U" or "B".

Press the **EXIT** button to save the settings and to clear all screens.

### How to Set up Restrictions Using the Canadian English

**1**

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

Press the ▲ or ▼ button to select the "Setup", then press the **ENTER** button.

| TV | Setup | |
|---|---|---|
| | **Plug & Play** | ► |
| | Time | ► |
| | Language: | English |
| | Caption | ► |
| | Melody     : | On |
| | V-chip | ► |

◆ Move     ⏎ Enter     ⊞ Return

**2**

Press the ▲ or ▼ button to select the "V-Chip", then press the **ENTER** button.

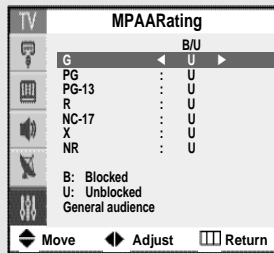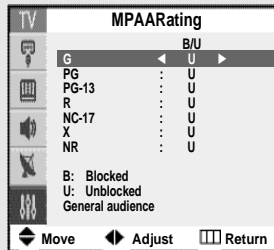The "Enter Pin" screen will appear. Enter your 4-digit PIN number.

Enter Pin
Enter Pin          : - - - -

60

**3**
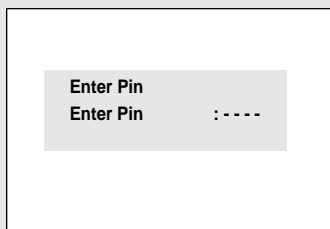
Press the ▲ or ▼ button to select the "Canadian English", then press the **ENTER** button. The "Canadian English" screen will appear.

| TV | V-chip | |
|---|---|---|
| | **V-Chip Lock** | ◄ **Yes** ► |
| | TV Parental Guidelines | ► |
| | MPAARating | ► |
| | Canadian English | ► |
| | Canadian French | ► |
| | Change Pin | ► |

♦ Move 　 Enter 　 Return

**4**

Repeatedly press the ▲ or ▼ button to select a particular Canadian English category. Pressing the ▲ or ▼ button will cycle through the Canadian English categories:

| TV | Canadian English | |
|---|---|---|
| | | B/U |
| | **E** | ◄ **U** ► |
| | C | : U |
| | C8+ | : U |
| | G | : U |
| | PG | : U |
| | 14+ | : U |
| | 18+ | : U |
| | B: Blocked | |
| | U: Unblocked | |

♦ Move 　◄► Adjust 　 Return

| | | |
|---|---|---|
| **E** | Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming. |
| **C** | Programming intended for children under age 8. |
| **C8+** | Programming generally considered accept able for children 8 years and over to watch on their own. |
| **G** | General programming, suitable for all audi ences. |
| **PG** | Parental Guidance. |

| | |
|---|---|
| **14+** | Programming contains themes or content which may not be suitable for viewers under the age of 14. |
| **18+** | Adult programming. |

While a particular category is selected, press the ► button to activate it.
A letter ("U" or "B") will be selected. Press the ▲ or ▼ button to select "U" or "B".

Press the **EXIT** button to save the settings and to clear all screens.
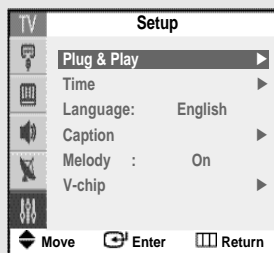
## How to Set up Restrictions Using the Canadian French

**1**

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

Press the ▲ or ▼ button to select the "Setup", then press the **ENTER** button.

| TV | Setup | |
|---|---|---|
| | **Plug & Play** | ► |
| | Time | ► |
| | Language: | English |
| | Caption | ► |
| | Melody : | On |
| | V-chip | ► |

♦ Move 　 Enter 　 Return

**2**

Press the ▲ or ▼ button to select the "V-Chip", then press the **ENTER** button.

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

**Enter Pin**
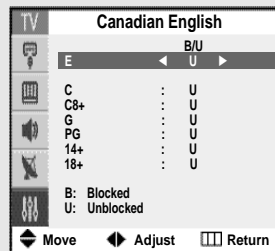**Enter Pin** 　　 : - - - -

*continued...*

## 3
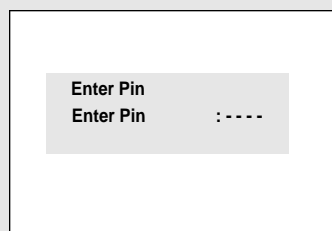
Press the ▲ or ▼ button to select the "Canadian French", then press the **ENTER** button.

| TV | **V-chip** | | |
|----|-----------|----|----|
| | **V-Chip Lock** | ◄ **Yes** | ► |
| | TV Parental Guidelines | | ► |
| | MPAARating | | ► |
| | Canadian English | | ► |
| | Canadian French | | ► |
| | Change Pin | | ► |
| ◆ Move | ⏎ Enter | ⊞ Return | |

## 4

The "Canadian French" screen will appear.
Repeatedly press the ▲ or ▼ button to select a particular Canadian French category.
Pressing the ▲ or ▼ button will cycle through the Canadian French categories:

| TV | **Canadian French** | |
|----|---------------------|---|
| | B/U | |
| | E ◄ U ► | |
| | G : U | |
| | 8 ans+ : U | |
| | 13 ans+ : U | |
| | 16 ans+ : U | |
| | 18 ans+ : U | |
| | B: Blocked | |
| | U: Unblocked | |
| ◆ Move | ◄► Adjust | ⊞ Return |

| | |
|---|---|
| **E** | Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming. |
| **G** | General. |
| **8 ans+** | 8+ General-Not recommended for young children. |
| **13 ans+** | Programming may not be suitable for children under the age of 13. |

| | |
|---|---|
| **16 ans+** | Programming is not suitable for children under the age of 16. |
| **18 ans+** | Programming restricted to adults. |

While a particular category is selected, press the ► button to activate it.
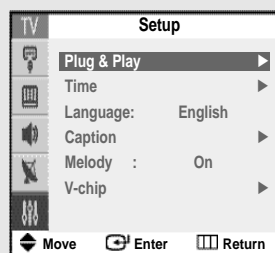A letter ("U" or "B") will be selected. Press the ▲ or ▼ button to select "U" or "B".

Press the **EXIT** button to save the settings and to clear all screens.

### How to Reset the TV after the V-Chip Blocks ("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 function for an "emergency escape":

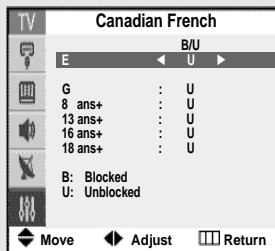Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select the "Setup" menu and press the **ENTER** button.
Press the ▲ or ▼ button to select the "V-Chip" menu and press the **ENTER** button. Enter your PIN number, and press the ► button to temporarily disable the V-Chip Lock.
Press the **EXIT** button to exit the menu.

## Customizing Your Remote Control

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

• The remote control might not be compatible with all VCRs, DVD players and Cable boxes.

### Setting Up Your Remote Control to Operate Your VCR (Cable box or DVD player)

**1**

Turn off your VCR (Cable box or DVD player).

**2**

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

◄ The remote control has five modes: **TV**, **STB**, **VCR**, **CABLE** and **DVD**.

**3**

On your Samsung remote control, press the **SET** button.

**4**

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

◄ 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.)

**5**

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

◄ If your VCR (Cable box or DVD player) 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 (Cable box or DVD player).

**6**

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

• When your remote is in the **TV** mode, the VCR (or DVD player) control buttons (**REW**, **STOP**, **PLAY/PAUSE** and **FF**) will still operate your VCR (or DVD player).

• When your remote control is in the **VCR** (**CABLE** or **DVD**) mode, the volume buttons still control your TV's volume.

## Remote Control Codes

### VCR Codes

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 000 | Samsung | 018 | Candle, Citizen, Emerson, LG(Goldstar), Radio Shack, Realistic, Sears, Toshiba, Teknika, Totevision | 036 | Electrohome, Emerson, Radio Shack, Realistic, Sharp | 059 | Pioneer |
| 001 | LG(Goldstar) | | | 037 | RCA | 060 | JC Penny |
| 002 | | | | 038 | Magnavox, Marantz, Philco, Philips, Sylvania | 061 | Candle, Citizen, Portland |
| 003 | Daewoo | 019 | Broksonic, Emerson | 039 | JC Penny, JCL, Kenwood, Marantz, NEC, Totung, Teac | 062 | Canon, Curtis Mathes, General Electric, JC Penny, Magnavox, Panasonic, Philco, Radio Shack, Realistic, Sylvania |
| 004 | | 021 | Craig, Fisher, Radio Shack, Realistic, Sanyo, Sears | | | | |
| 005 | | 022 | Audio Dynamics, Candle, Citizen, Daewoo, Emerson, Samsung, Scott, Toshiba | 040 | logik, Multitech, Shinton | | |
| 006 | | | | 041 | General Electric, Multitech, Samsung | 063 | RCA |
| 007 | Daewoo, LG(Goldstar) | 023 | Colortyme, Curtis Mathes, DB, LG(Goldstar), Harman Kardon, JC Penny, JCL, Kenwood, Marantz, NEC | 042 | Pioneer | 064 | Shinton |
| 008 | Daewoo | | | 043 | Emerson | 065 | Magnavox, Philco, Sylvania |
| 009 | Curtis Mathes, Dimensia, General Electric, PROSCAN, RCA | | | 044 | Hitachi, JC Penny, Pentax, RCA, Sears | 066 | Emerson |
| | | 024 | Aiwa, Curtis Mathes, Dynatech, Emerson, Fisai, Hitachi, Lloyd, LXL, MTC, Multitech, Radio Shack, Realistic, Signature, Sylvania, Symphonic, Tandy, Teac, Teknika | 045 | Hitachi | 067 | Fisher |
| 011 | Bell & Howell, Fisher, JC Penny, JCL, Kenwood, Marantz, NEC, Quartz, Radio Shack, Realistic, Sanyo, Sears, Tandy | | | 046 | RCA | 069 | LG(Goldstar) |
| | | | | 047 | Sony | 070 | Marantz, NEC |
| | | | | 048 | Sharp | 071 | Emerson |
| 014 | Hitachi, JC Penny, Pentax, Pioneer, RCA, Sears, Toshiba | 025 | Audio Dynamics, DB, JC Penny, JCL, Kenwood, Marantz, NEC, Pioneer, Sansui | 050 | Emerson, Scott | 073 | Curtis Mathes, NEC |
| 015 | Admiral, Optimus, Radio Shack, Realistic, Sharp | | | 051 | Emerson, Samsung | 074 | Emerson |
| | | 026 | Akai, Shintom, Sony | 052 | Fisher, Radio Shack, Realistic, Sears | 076 | Curtis Mathes, Emerson, TMK |
| 016 | Candle, Citizen, Craig, Curtis Mathes, General Electric, Go Video, JC Penny, MTC, Multitech, RCA, Samsung, Totevision | 027 | Fisher, Sears | | | 077 | Emerson, Scott |
| | | 028 | Fisher, Radio Shack, Realistic, Sears, Toshiba | 053 | Portland, Quasar | 078 | RCA, Teac |
| | | 029 | Emerson | 054 | Candle, Citizen, Daewoo, Portland, Sharp | 079 | Emerson |
| | | 030 | Teknika | | | 082 | KLH |
| 017 | Canon, Curtis Mathes, Emerson, General Electric, Instant Replay, JC Penny, JCL, Magnavox, Marantz, Panasonic, Philco, Philips, Quasar, Radio Shack, Realistic, RCA, Sylvania, Technics, Teknika | 031 | Akai, Samsung | 055 | Candle, Citizen, Curtis Mathes, LG(Goldstar), JCL, Kenwood, Marantz, NEC, Pentex Research+ | 084 | Panasonic |
| | | 032 | Akai, Emerson | 056 | Emerson | 085 | Daewoo |
| | | 035 | Shintom, Sony | 057 | Fisher, Sears, Toshiba | 086 | Panasonic |
| | | | | 058 | Emerson, Scott, Toshiba | 088 | Admiral |

### Cable Box Codes

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 000 | Samsung | 020 | Eastern International, Hamlin, Regal | 038 | GI, Jerrold | 057 | Tocom |
| 001 | Navco | | | 039 | Unika | 058 | |
| 002 | TaePyungYang | 021 | Hamlin, Regal | 040 | Magnavox, Philips, Unika, Viewstar | 059 | Universal |
| 003 | DaeRyung | 022 | Zenith | | | 060 | |
| 004 | DongKuk | 023 | GI, Jerrold | 041 | Magnavox, Philips, Regency, Viewstar | 063 | Tocom |
| 005 | DaeHan | 024 | Oak, Ork Sigma | | | 065 | Zenith |
| 006 | LG(Goldstar) | 025 | Tocom | 042 | Hamlin | 066 | Stargate 2000 |
| 007 | Saewoo | 026 | Pioneer | 044 | GI, Jerrold | 067 | Sylvania, Texscan |
| 008 | RCA | 027 | Magnavox, Philips, Viewstar | 045 | Hitachi, Macom | 069 | Panasonic, Zenith |
| 010 | Regency | 028 | Pioneer | 046 | Oak | 070 | Jerrold |
| 011 | Hamlin, Panasonic, Regal, Samsung | 029 | Magnavox, Philips, Tocom, Viewstar | 047 | Panasonic | 071 | Samsung |
| | | | | 048 | Magnavox, Philips, Viewstar | 072 | |
| 012 | GI, Hamlin, Jerrold | 030 | Samsung | 049 | Magnavox, Philips, Unika, Viewstar | 073 | Jerrold |
| 013 | GI, Jerrold | 031 | | | | 074 | RCA |
| 015 | Anvision, Cable Star, Eagle, Magnavox, Philips, Rondak, Viewstar | 032 | GI, Jerrold | 050 | Zenith | 075 | GI |
| 016 | | 033 | | 051 | Hitachi, Macom | 076 | |
| | | 034 | Magnavox, Philips, Viewstar | 052 | Pioneer, Samsung, Warner Amex | 077 | |
| 017 | NSC | 035 | RCA, Panasonic, Spencer | 054 | General Instrument, Hitachi, Jerrold, Signature, Starcom | | |
| 019 | Sylvania, Texscan | 036 | Magnavox, Philips, Viewstar | | | | |
| | | 037 | | 056 | Hamlin | | |

### DVD Codes

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 000 | Samsung | 003 | JVC | 006 | Panasonic | 009 | Curtis Mathes |
| 001 | LG(Goldstar) | 004 | Sony | 007 | Philips | | |
| 002 | Toshiba | 005 | Sharp | 008 | PROSCAN, RCA | | |

# Chapter Five

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.<br>Adjust the antenna.<br>Check all wire connections. |
| Poor sound quality. | Try another channel.<br>Adjust the antenna. |
| No picture or sound. | Try another channel.<br>Press the TV/VIDEO button.<br>Make sure the TV is plugged in.<br>Check the antenna connections. |
| No color, wrong colors or tints. | Make sure the program is broadcast in color.<br>Adjust the picture settings.<br>If the set is moved or turned in a different direction, the power should be OFF for at least 30 minutes. |
| Picture rolls vertically. | Adjust the antenna.<br>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 | TX-N2668WH |
| --- | --- |
| Voltage | AC 120 V |
| Frequency of Operation | 60 Hz |
| Dimensions (mm/inches) | 800 X 553 X 505 / 31.50 X 21.77 X 19.88 |
| Weight (Kg/ lbs) | 40.4 / 89.07 |

| Memo |
| --- |

| Memo |
| --- |

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