SAMSUNG
ELECTRONICS

SAMSUNG

LN-R269D
LN-R329D
LN-R409D
LN-R469D
LN32M51BD
LN40M51BD
LN46M51BD

TFT-LCD TELEVISION

1-800-SAMSUNG(1-800-726-7864)

U.S.A
Samsung Electronics America Service Division
400 Valley Road, Suite 201 Mount Arlington, NJ 07856
www.samsung.com

Canada
Samsung Electronics Canada Inc. Samsung Customer Care
55 Standish Court Mississauga, Ontario L5R 4B2
www.samsung.ca

IMPORTADO POR: SAMSUNG ELECTRONICS MÉXICO. S.A. de C.V.
Vía Lopez Portillo No. 6,
Col. San Fco. Chilpan
Tultitlán, Estado de México, C.P. 54940
TEL. 01-55-5747-5100 / 01-800-726-7864

EXPORTADO POR: Samsung Electronics CO.,LTD.
416, Mae tan-3dong,Yeongtong - gu,
Suwon City, Gyeonggi-do Korea

Owner's Instructions

This device is a Class B digital apparatus.

Register your product at
www.samsung.com/global/register

Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

- Digital Ready TV: When you select the regular screen (4:3) mode to watch an SD-grade digital broadcast (and the Set-Top Box output is 480p).

- Digital Ready TV: When you select the wide screen (16:9) mode to watch an SD-grade digital broadcast (and the Set-Top Box output is 1080i).
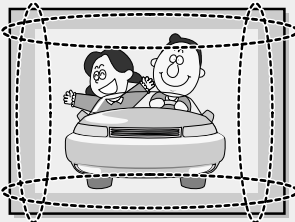
Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note: If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- Digital Ready TV: When the TV receives HD-grade signals (and the Set-Top Box output is 1080i).
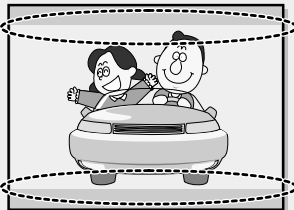
When you watch a digital HD-grade broadcast on a regular (4:3) TV with the screen size "16:9" or "Panorama" selected, you will be able to watch the program but the top and bottom edges of the screen will be cropped.
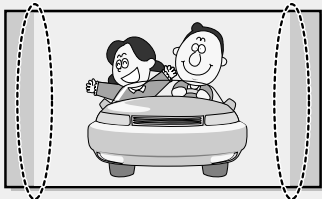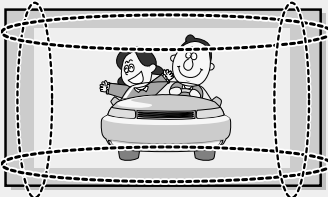
Note: If the borders at the top, bottom and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- Integrated Digital TV (Wide-screen): When the TV receives SD-grade (regular) broadcasting signals (receives 480p regular signals).

- Digital Ready TV (wide-screen): digital TV: When the TV receives SD-grade (regular) broadcasting signals (with a Set-Top Box).

- When you watch an analog (regular) broadcast on a wide-screen TV (with the 4:3 screen mode selected).

Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note: If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- When you watch a DVD, CD or a video in wide-screen (21:9) format on a wide-screen (16:9) TV.

- When you connect a computer or a game console to the TV and select the 4:3 screen mode.

If you connect a DVD player, computer or a game console to the wide-screen TV and watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left and right side edges, or the top and bottom edges of the screen will be cropped.

Note: If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

Chapter 1: General Information

Chapter 2: Connections

Chapter 3: Operation

Chapter 4: Picture Control

Chapter 5: Sound Control

Chapter 6: Channel Control

Chapter 7: PC Display

Chapter 1

List of Features

● Excellent Digital Interface & Networking :
  With a built-in HD digital tuner, this TV supports HD broadcasts with no
  Set-Top Box needed, and provides simple access with a single remote control.

● Excellent Picture Quality

  - DNIe technology provides life-like clear images.
  - My Color Control: Colors can be set to your preference by adjusting Red, Green, Blue,
    Yellow, Pink, and White.
  - Dynamic Contrast: Automatically detects the input visual signal and adjusts to create
    optimum contrast.
  - Brightness Sensor: Adjusts the screen brightness automatically depending on the
    brightness of the surrounding environment.

● SRS TruSurround XT
  - SRS TruSurround XT provides a virtual Dolby surround system.

● Convenience
  - The TV utilizes the HDMI system to implement perfect digital sound and picture quality.
  - The Anynet system enables you to easily control Samsung audio-video (AV) devices
    from this TV.
  - For more information about Anynet, refer to the Anynet AV Owner's Instructions.

List of Parts

Please make sure the following items are included with your LCD TV.
If any items are missing, contact your dealer.

Remote Control
(BN59-00460A)
& Batteries (AAA x 2)

Power Cord
(3903-000085)

Cleaning Cloth
(BN63-001798A)

Anynet Cable
(BN39-00518B)

Cover-Bottom
LN-R269D/LN-R329D/
LN32M51BD: BN63-01947A
LN-R409D/LN40M51BD:
BN63-01938A
LN-R469D/LN46M51BD:
BN63-01810A

Stand
LN-R269D: BN96-02203A
LN-R329D/LN32M51BD:
BN96-02202A

Anynet AV
Owner's
Instructions

Owner's
Instructions
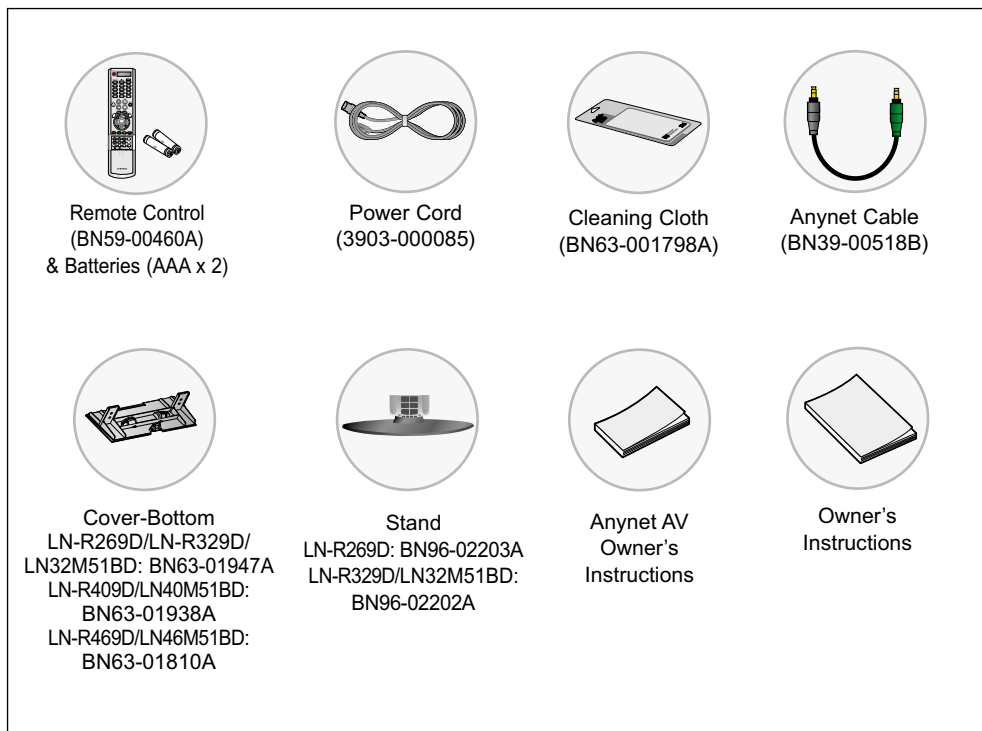
Familiarizing Yourself with Your New TV

Buttons on the Lower-Right Part of the Panel

The buttons on the lower-right panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.
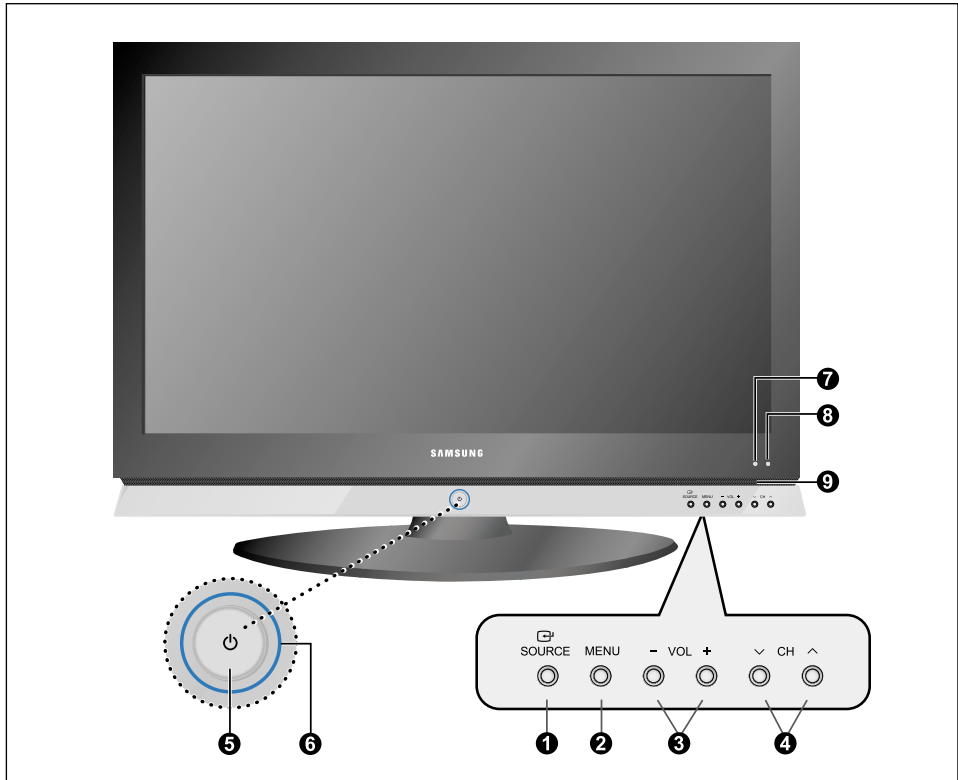
❶ SOURCE
Displays a menu of all of the available input sources.
- LN-R269D
  - TV, AV, S-VIDEO, Component 1, Component 2, PC, HDMI
- LN-R329D / LN32M51BD / LN-R409D / LN40M51BD / LN-R469D / LN46M51BD
  - TV, AV 1, AV 2, S-VIDEO 1, S-VIDEO 2, Component 1, Component 2, PC, HDMI

Also used to confirm your choice on the on-screen menu.

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

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

❹ ⌄ CH ⌃
Press to change channels. Also press to highlight various items on the on-screen menu.

❺ ⏻ (POWER)
Press to turn the TV on and off.

❻ POWER INDICATOR
Blinks and turns off when the power is on and lights up in stand-by mode.

❼ REMOTE CONTROL SENSOR
Aim the remote control towards this spot on the TV.

❽ LIGHT DETECTING SENSOR
Adjusts the brightness of the screen automatically by detecting brightness of the surrounding environment. This sensor works when the Brightness Sensor is on.

❾ SPEAKERS

English-2

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.
For more information on connecting equipment, see pages 8-18.

The TV surface can be different depending on the model.

LN-R269D

LN-R329D / LN32M51BD

LN-R409D/ LN40M51BD / LN-R469D / LN46M51BD

❶ PC IN
Connect to the video and audio output jacks on your PC.

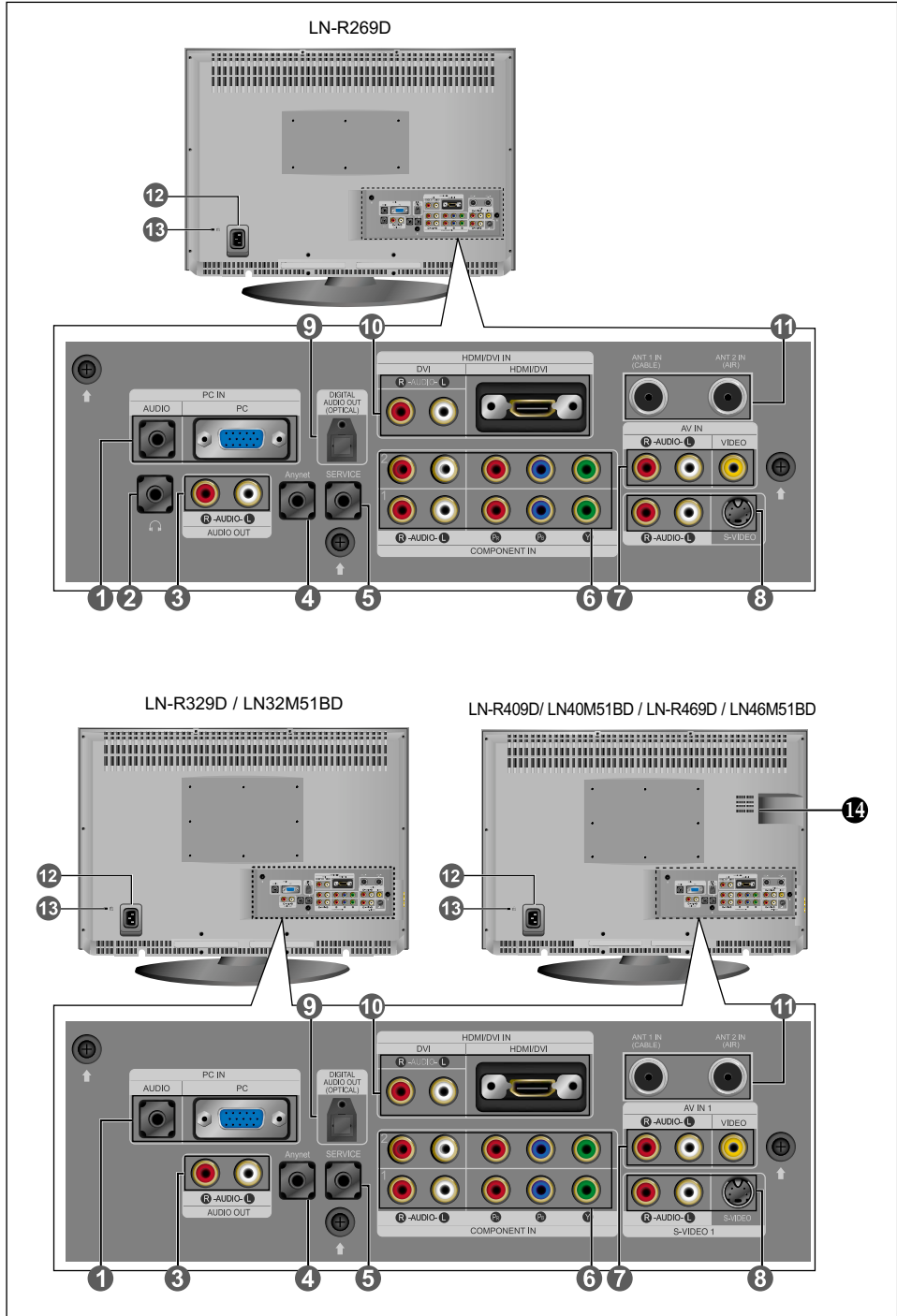**❷ HEADPHONE (LN-R269D)**
Connect a set of external headphones for private listening.

❸ AUDIO OUT
Connect to the audio input jacks on your Amplifier/Home theater.

❹ Anynet
Refer to "Anynet AV Owner's Instructions".

❺ SERVICE
Connector for service only.

❻ COMPONENT IN
Connect component video/audio from a DVD/Set-Top Box.

❼ AV IN (1)
Video and audio inputs for external devices, such as a camcorder or VCR.

❽ S-VIDEO IN (1)
Video inputs for external devices with an S-Video output, such as a camcorder or VCR.

❾ DIGITAL AUDIO OUT (OPTICAL)
Connect to a Digital Audio component.

❿ HDMI/DVI IN
Connect to the HDMI jack of a device with an HDMI output. Use the HDMI/DVI terminal for DVI connection to an external device. You should use the DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for the connection, and the 'R -AUDIO -L' terminal on DVI-IN for sound output.
 - HDMI/DVI IN terminal does not support PC.
 - No sound connection is needed for an HDMI to HDMI connection.

⓫ ANT IN
Connect to an antenna or to a cable TV system. (See pages 8-11, 61)

⓬ POWER INPUT
Connect the supplied power cord.

⓭ KENSINGTON LOCK
Refer to "Using the Anti-Theft Kensington Lock" on page 119.

⓮ CABLE CARD (LN-R409D/LN40M51BD/ LN-R469D/LN46M51BD)
Insert the cableCARD into the slot.

Side Panel Jacks

(LN-R329D, LN32M51BD, LN-R409D, LN40M51BD, LN-R469D, LN46M51BD)

Use the left side panel jacks to connect a component that is used only occasionally, such as a camcorder or video game. (See page 15)
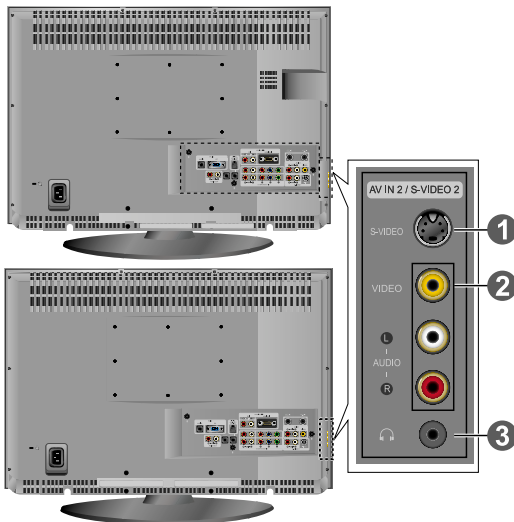
❶ S-VIDEO IN (2)
Video inputs for external devices with an S-Video output.

❷ AV IN (2)
Video and audio inputs for external devices.

❸ HEADPHONE
Connect a set of external headphones for private listening.

	Speaker			Audio Out		
	RF	AV, S-Video	Component, PC, HDMI	RF	AV, S-VIDEO	Component, PC, HDMI
Internal Mute Off	Speaker Output	Speaker Output	Speaker Output	Sound Output	Sound Output	Sound Output
Internal Mute On	Mute	Mute	Mute	Sound Output	Sound Output	Sound Output
Video No Signal	Mute	Mute	Mute	Mute	Sound Output	Sound Output

When "Internal mute" is set to "On", Sound menus except "Multi-Track Options" and "Digital Output" cannot be adjusted.

Remote Control

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV. You can also use your remote control to operate your VCR, Cable box, DVD player, or Set-Top Box.
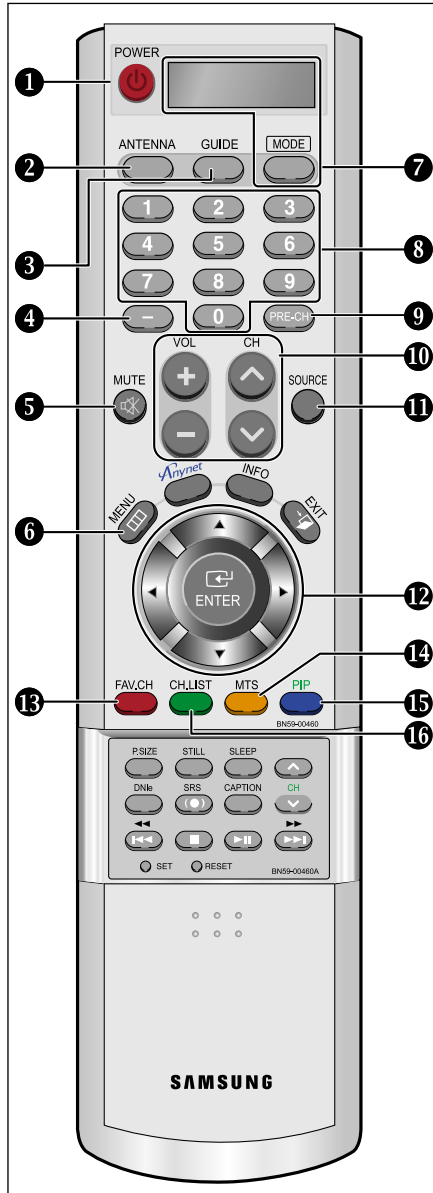
❶ POWER ○
Turns the TV on and off. (See page 19)

❷ ANTENNA
Press to select "AIR" or "CABLE". (See pages 8~11)

❸ GUIDE
Press to display the on-screen Electronic Program Guide (EPG). (See page 104)

❹ -
Press to select additional channels (digital and analog) being broadcast by the same station. For example, to select channel "54-3", press "54", then press "-" and "3".

❺ MUTE
Press to temporarily cut off the sound. (See page 19)

❻ MENU ▥
Displays the main on-screen menu. (See page 20)

❼ MODE
Selects a target device to be controlled by the Samsung remote control (TV, VCR, CATV, DVD, STB). (See pages 29~31)

❽ NUMERIC BUTTONS
Press to change the channel.

❾ PRE-CH
Turns to the previous channel. (See page 19)

❿ CH ∧ and CH ∨ (Channel UP/Down)
Press to change channels. (See page 19)

VOL + and VOL -
Press to increase or decrease the volume. (See page 19)

⓫ SOURCE
Press to display all of the available video sources.

⓬ UP / DOWN / LEFT / RIGHT / ENTER
Use to select on-screen menu items and change menu values.

⓭ FAV.CH
Press to switch to your favorite channels. (See page 62)

⓮ MTS
Press to choose stereo, mono or Separate Audio Program (SAP broadcast). (See pages 55~56)

⓯ PIP
Picture-in Picture ON/OFF. (See page 44)

⓰ CH.LIST
Displays the channel list. (See page 64)
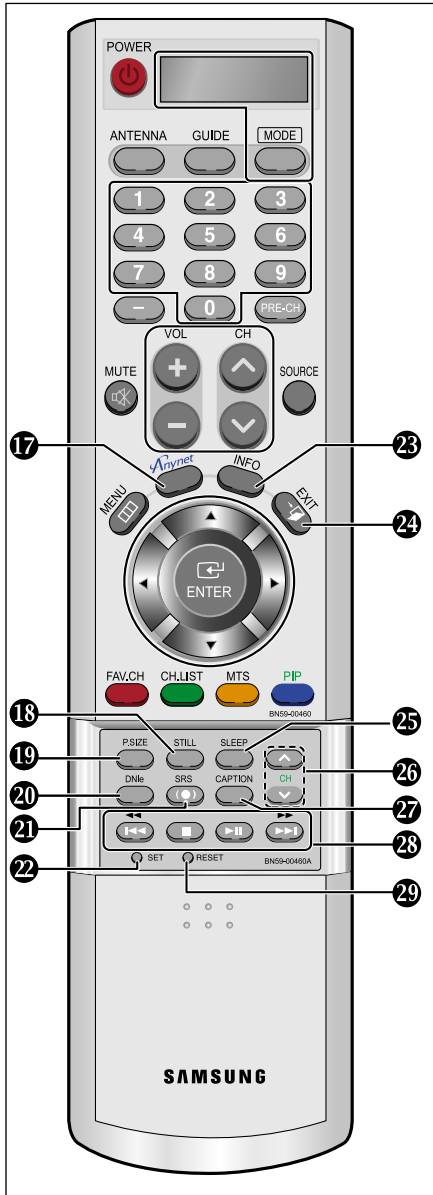
⑰ Anynet
Press the Anynet button to bring up the Anynet menu.
Refer to "Anynet AV Owner's Instructions".

⑱ STILL
Press to stop the action during a particular scene.
Press again to resume normal video. (See page 43)

⑲ P.SIZE
Press to change the screen size. (See page 41~42)

⑳ DNIe
Off : DNIe Demo mode is deactivated.
On : The right-hand side of the screen shows the improved DNIe image.
    The left-hand side of the screen shows the original image. (See page 40)

㉑ SRS
Selects TruSurround XT mode. (See page 54)

㉒ SET
Adjusts 5 separate devices - TV, VCR, Cable, DVD, or Set-Top Box. (See pages 29~31)

㉓ INFO
Use to see information on the current broadcast. (See page 20)

㉔ EXIT
Press to exit the menu.

㉕ SLEEP
Press to select a preset time interval for automatic shut off.

㉖ ⌃ CH ⌄
Displays the available channels in sequence. (These buttons change channels in the PIP window only.) (See page 46)

㉗ CAPTION
Controls the caption decoder. (See pages 87~91)

㉘ VCR/DVD Functions (Anynet mode only)
- Rewind
- Stop
- Play/Pause
- Fast/Forward

㉙ RESET
When your remote does not work, change the batteries and press the RESET button for 2-3 seconds before use.
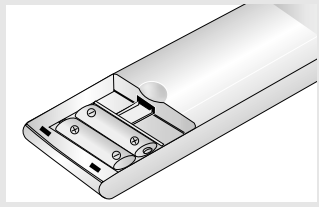
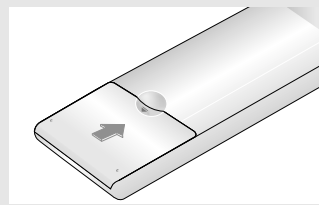## Installing Batteries in the Remote Control

1

Slide the Cover out completely.
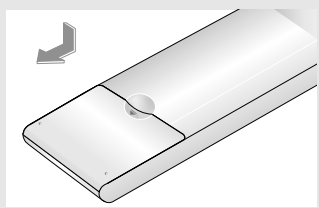
2

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.)

If the remote control doesn't work

Check the following:

1. Is the TV power on?

2. Are the plus and minus ends of the batteries reversed?

3. Are the batteries drained?

4. Is there a power outage, or is the power cord unplugged?

5. Is there a special fluorescent light or a neon sign nearby?

Chapter 2

CONNECTIONS

Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see "Antennas with 300-ohm Flat Twin Leads" below.
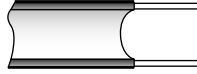
If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads" on page 9.
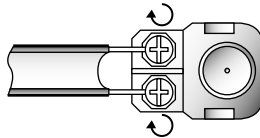
If you have two antennas, see "Separate VHF and UHF Antennas" on page 9.

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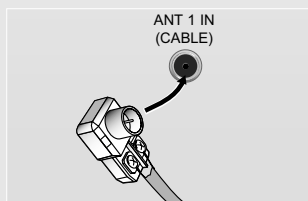
1 Place the wires from the twin leads under the screws on a 300-75 ohm adapter (not supplied). Use a screwdriver to tighten the screws.

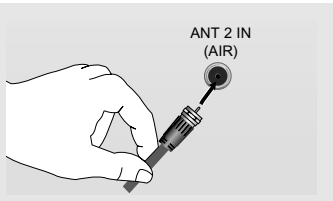**2** Plug the adaptor into the ANT 1 IN (CABLE) terminal on the back of the TV.

ANT 1 IN (CABLE)

Antennas with 75-ohm Round Leads

1

Plug the antenna lead into the ANT 2 IN (AIR) terminal on the back of the TV.
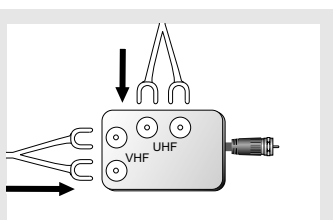
ANT 2 IN
(AIR)

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).
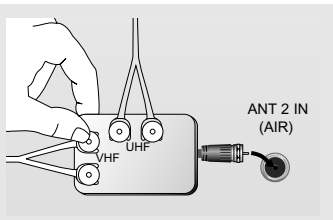
1

Connect both antenna leads to the combiner.

UHF
VHF

2

Plug the combiner into the ANT 2 IN (AIR) terminal on the bottom of the rear panel.
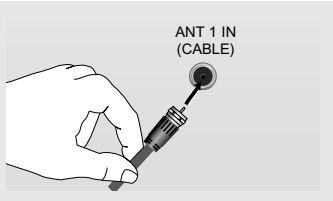
UHF
VHF

ANT 2 IN
(AIR)

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 ANT 1 IN (CABLE) terminal on the back of the TV.

ANT 1 IN
(CABLE)

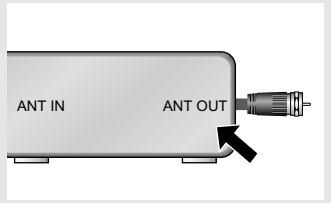◀ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

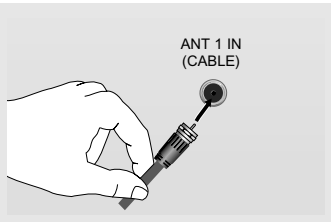## Connecting to a Cable Box that Descrambles All Channels

1
Find the cable that is connected to the ANT OUT terminal on your cable box.

ANT IN   ANT OUT

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

2
Connect the other end of this cable to the ANT 1 IN (CABLE) terminal on the back of the TV.

ANT 1 IN (CABLE)

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 RF cable. (These items are available at most electronics stores.)

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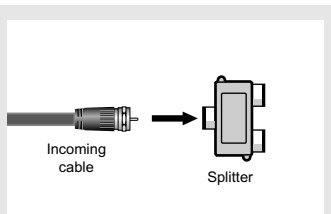Find and disconnect the cable that is connected to the ANT IN terminal on your cable box.
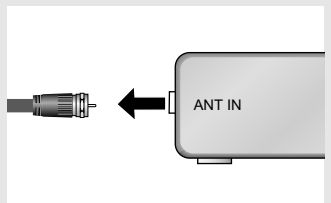
ANT IN

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

2
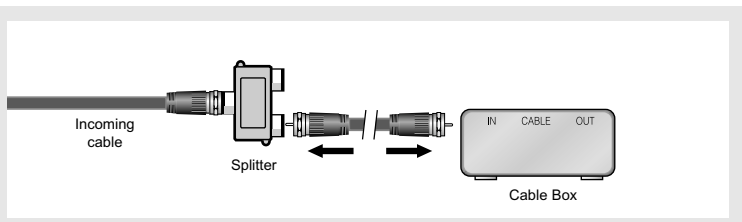Connect this cable to a two-way splitter.

Incoming cable

Splitter

3
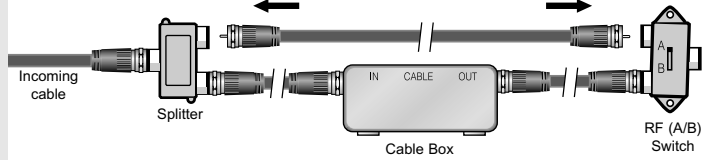Connect an RF cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.

Incoming cable

Splitter

IN   CABLE   OUT

Cable Box

English-10

4

Connect an RF cable between the ANT OUT terminal on the cable box and the B–IN terminal on the RF(A/B) switch.

Incoming cable

Splitter

IN   CABLE   OUT

Cable Box

A
B
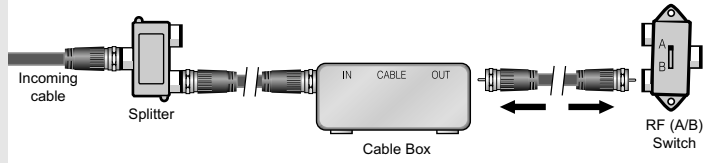
RF (A/B) Switch

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

IN   CABLE   OUT

Cable Box

A
B

RF (A/B) Switch

6

Connect the last RF cable between the OUT terminal on the RF (A/B) switch and the ANT 1 IN (CABLE) terminal on the rear of the TV.

Incoming cable

Splitter

IN   CABLE   OUT

Cable Box

A
B

RF (A/B) Switch

ANT 1IN (CABLE)

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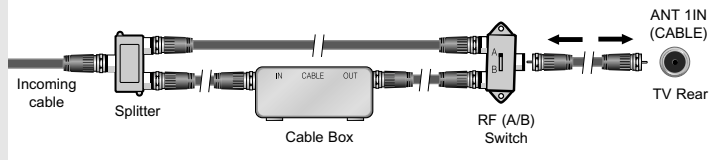
After you have made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels.
(When you set the A/B switch to "B", you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

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 8-11).
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.

ANT IN

2
Connect the cable or antenna to the ANT IN terminal on the back of the VCR.

VCR Rear Panel

Incoming Cable or Antenna

3
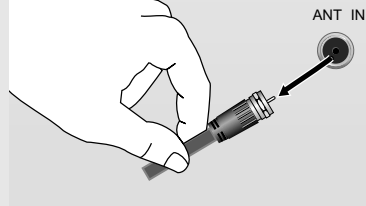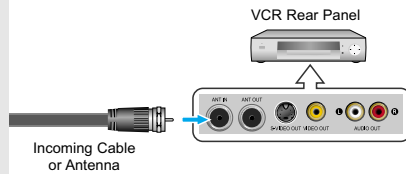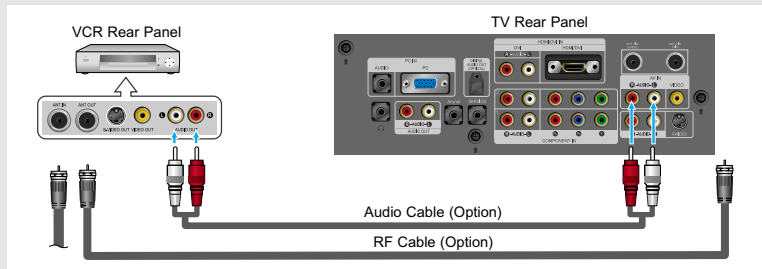Connect an RF cable between the ANT OUT terminal on the VCR and the ANT 1 IN (CABLE) or ANT 2 IN (AIR) terminal on the TV.
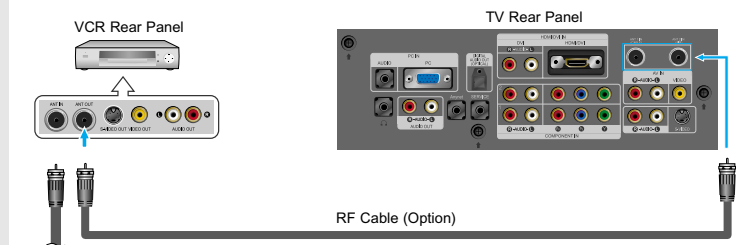
VCR Rear Panel

TV Rear Panel
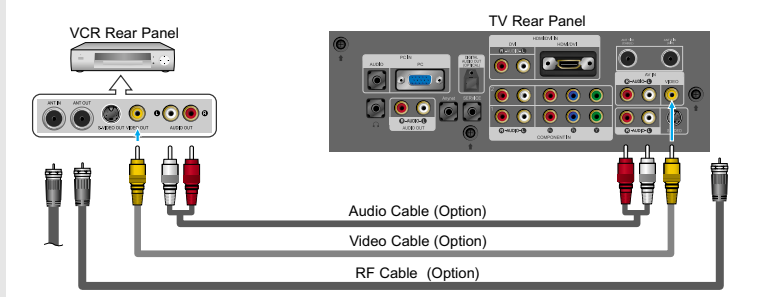
RF Cable (Option)

4

Connect an audio
cable between the
AUDIO OUT jacks on
the VCR and the
AV IN [R-AUDIO-L]
jacks on the TV.

VCR Rear Panel

TV Rear Panel

Audio Cable (Option)

RF Cable (Option)

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

5

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

VCR Rear Panel

TV Rear Panel

Audio Cable (Option)

Video Cable (Option)

RF Cable (Option)

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

* Each external input source device has a different back panel configuration.
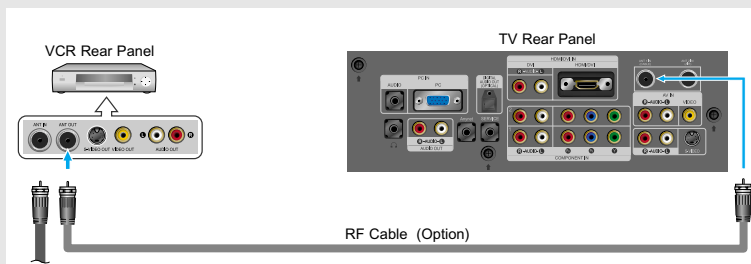* When connecting an external device, match the color of the connection terminal to the cable.

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.)
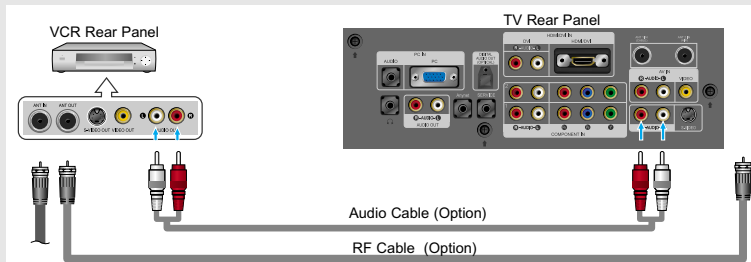
1

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

RF Cable (Option)

2

Connect an audio
cable between the
AUDIO OUT jacks on
the VCR and the
AV IN [R-AUDIO-L]
jacks on the TV.

VCR Rear Panel

TV Rear Panel

Audio Cable (Option)

RF Cable (Option)

3

Connect an S-video
cable between the
S-VIDEO OUT jack on
the VCR and the
AV IN [S-VIDEO] jack
on the TV.

VCR Rear Panel

TV Rear Panel

Audio Cable (Option)

S-Video Cable (Option)

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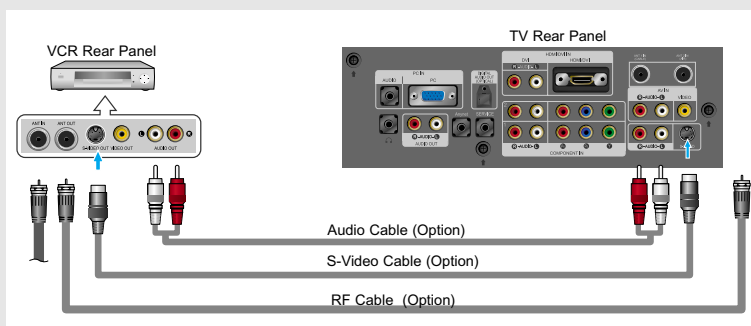
An S-Video cable is usually included with an S-VHS VCR.
(If not, check your local electronics store.)

* Each external input source device has a different back panel configuration.
* When connecting an external device, match the color of the connection terminal to the cable.

Connecting a Camcorder
(LN-R329D, LN32M51BD, LN-R409D, LN40M51BD, LN-R469D, LN46M51BD)

The side panel jacks on your TV make it easy to connect a camcorder to your TV.
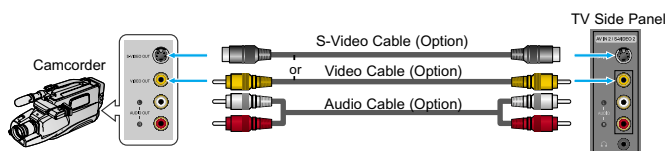They allow you to view the camcorder tapes without using a VCR.

1

Connect an audio
cables between the
AV IN 2 / S-VIDEO 2
[R-AUDIO-L]
jacks on the TV and
the AUDIO OUT jacks
on the camcorder.
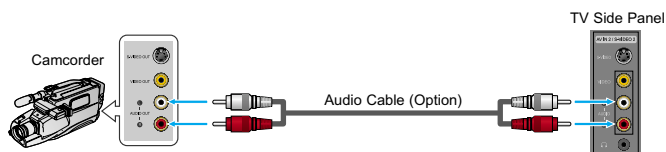
2

Connect a video cable
between the
AV IN 2 / S-VIDEO 2
[VIDEO] (or S-VIDEO)
jack on the TV and
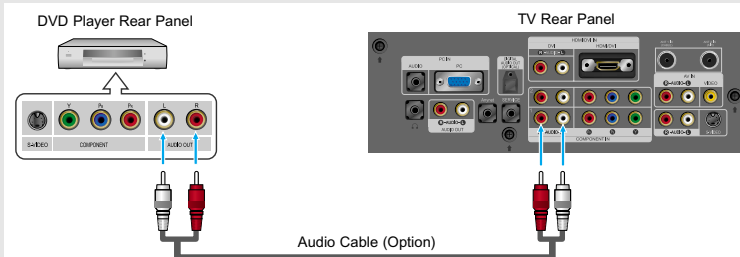the VIDEO OUT
jack on the
camcorder.

Connecting a DVD Player

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.
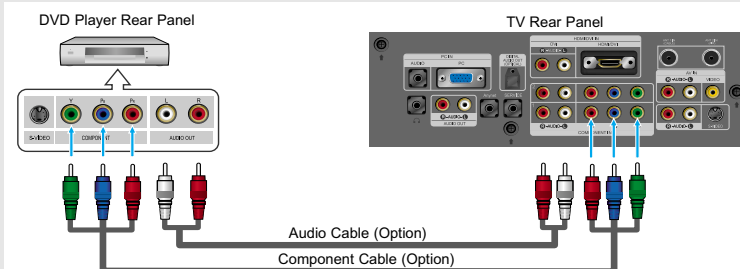
1

Connect an audio
cable between the
COMPONENT IN 1 or
COMPONENT IN 2
[R-AUDIO-L] jacks on
the TV and
the AUDIO OUT jacks
on the DVD player.

2

Connect a
Component Cable
between the
COMPONENT IN 1 or
COMPONENT IN 2
[PR, PB, Y] jacks on
the TV and the
COMPONENT [Y, PB,
PR] jacks on the DVD
player.

Note: For an explanation of Component video, see your DVD player owner's manual.
Be sure to match the component video and audio connections. For example, if connecting
the video cable to COMPONENT IN 1, connect the audio cable to COMPONENT IN 1 also.

* Each external input source device has a different back panel configuration.
* When connecting an external device, match the color of the connection terminal to the cable.

CONNECTIONS

Connecting a DVD Player/Set-Top Box via DVI

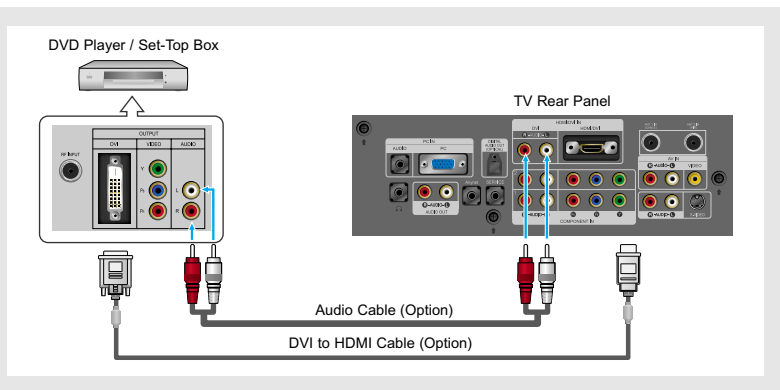This can be applied only if there is a DVI Output connector on the external device.

1

Connect a DVI to HDMI cable or DVI-HDMI Adapter between the HDMI/DVI connector on the TV and the DVI connector on the DVD player/Set-Top Box.

DVD Player / Set-Top Box

TV Rear Panel

DVI to HDMI Cable (Option)

2
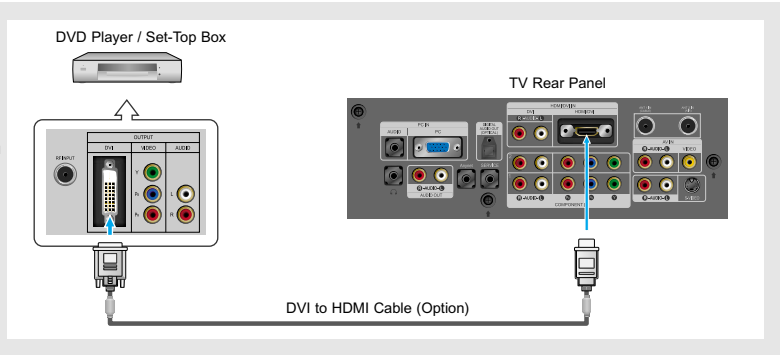
Connect an audio cable between the DVI IN [R-AUDIO-L] jack on the TV and the AUDIO OUT jacks on the DVD player/Set-Top Box.

DVD Player / Set-Top Box

TV Rear Panel
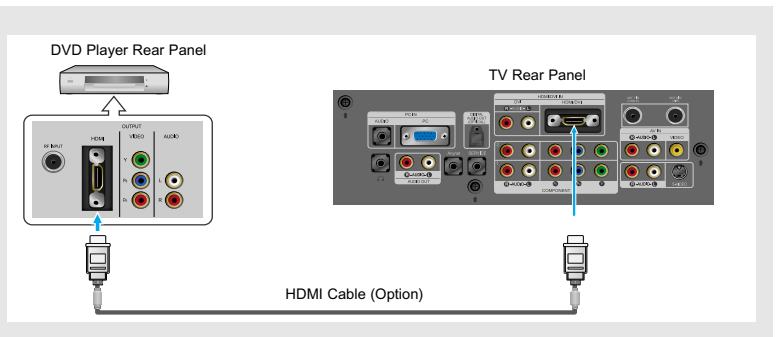
Audio Cable (Option)

DVI to HDMI Cable (Option)

Connecting a DVD Player/Set-Top Box via HDMI

This can be applied only if there is the HDMI Output connector on the external device.

1

Connect an HDMI cable between the HDMI/DVI connector on the TV and the HDMI connector on the DVD player/ Set-Top Box.

DVD Player Rear Panel

TV Rear Panel

HDMI Cable (Option)

What is HDMI?

• HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.

• "Multimedia interface" is a more accurate name for it especially because it allows multiple channels of digital audio (5.1 channels). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi-channel digital audio.

* Each external input source device has a different back panel configuration.
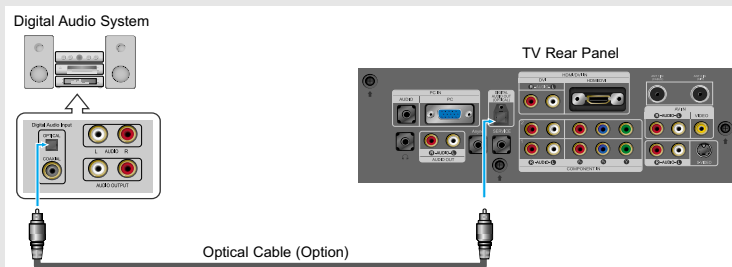* When connecting an external device, match the color of the connection terminal to the cable.

Connecting a Digital Audio System

The rear panel jacks on your TV make it easy to connect a Digital Audio System to your TV.

1

Connect an optical cable between the DIGITAL AUDIO OUT (OPTICAL) jacks on the TV and the Digital Audio Input jacks on the Digital Audio System.

Digital Audio System

TV Rear Panel

Optical Cable (Option)

Note: 5.1CH broadcasting is possible when it is connected to an external device supporting 5.1CH. For an explanation of Component video, see your Digital Audio System owner's manual.

# Connecting an Amplifier/DVD Home Theater

1

Connect an audio cable between the AUDIO OUT [R-AUDIO-L] on the TV and AUDIO IN [R-AUDIO-L] on the Amplifier/DVD Home Theater.

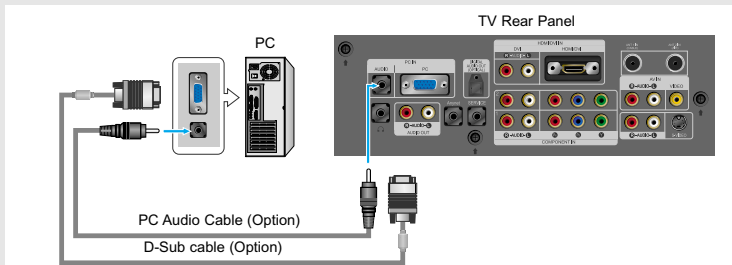Amplifier/DVD Home Theater

TV Rear Panel

Audio Cable (Option)
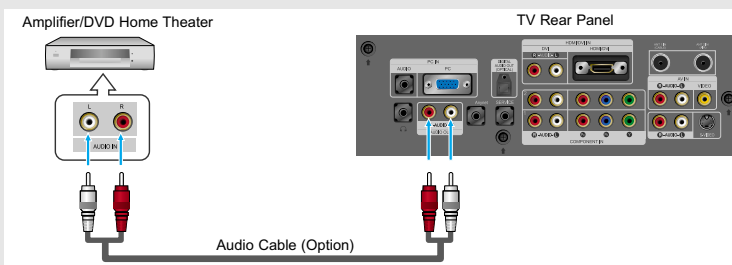
Connecting a PC

1

Connect a D-Sub cable between PC IN [PC] connector on the TV and the PC output connector on your computer.

PC

TV Rear Panel

D-Sub cable (Option)
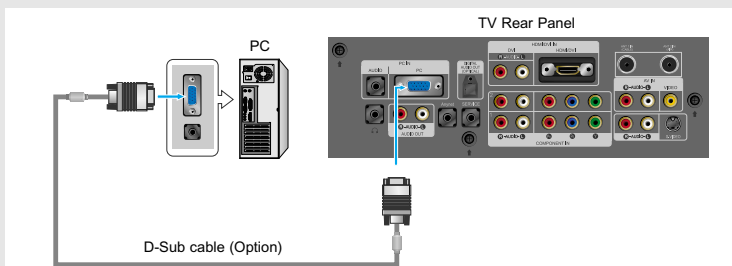
2

Connect a PC audio cable between PC IN [AUDIO] jack on the TV and the Audio Out jack of the sound card on your computer.

PC

TV Rear Panel

PC Audio Cable (Option)
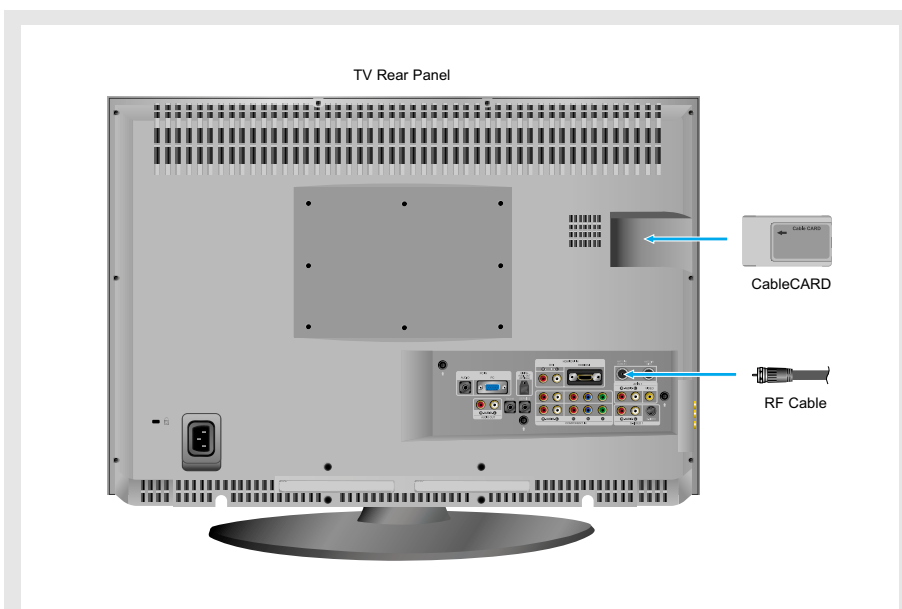
D-Sub cable (Option)

* Each external input source device has a different back panel configuration.

* When connecting an external device, match the color of the connection terminal to the cable.

Connecting CableCARD
(LN-R409D, LN40M51BD, LN-R469D, LN46M51BD)

You must obtain a CableCARD from a local cable service provider.

TV Rear Panel

CableCARD

RF Cable

1
Insert the CableCARD into the "CableCARD" slot and the message "CableCARD Inserted" is displayed on the screen. If the channel information does not exist, the message "Updating Channel List" is displayed during channel information configuration.
It could take several minutes to update the channel information depending on your cable service provider.

2
The pairing information containing a telephone number, CableCARD ID, Host ID, and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.

3
When the channel information configuration has finished, the message "Updating Completed" is displayed, indicating that the channel list is now updated.

4
The Channel list can now be displayed by pressing the CH.LIST button.

Note
• Once the channel list has been updated, only the channels on the channel list can be selected.
• Remove the cable card by carefully pulling it out with your hands since dropping the cable card may cause damage to it.
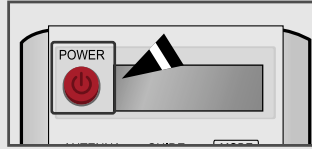
Turning the TV On and Off

1

Press the **POWER**⏻ button
on the remote.
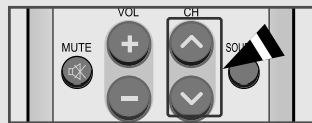You can also use the **POWER**⏻
button on the front of the panel.

Changing Channels

Using the Channel Buttons

1

Press the **CH** ∧ / ∨ buttons to change channels.

When you press the **CH**∧ / ∨ buttons, the TV changes channels in sequence.
You will see all the channels that the TV has memorized. (The TV must have
memorized at least three channels). You will not see channels that were either
erased or not memorized. See pages 21-28 to memorize channels.

Using the PRE-CH Button to select the Previous Channel

1

Press the **PRE-CH** button.
The TV will switch to the last channel viewed.

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

Adjusting the Volume

1

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

Using Mute

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

1

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

The word " 🔇 **MUTE** " will appear in

the lower-left corner of the screen.

2

To turn mute off, press the **MUTE** button again, or simply press the **VOL +/-** buttons.

Viewing the Display

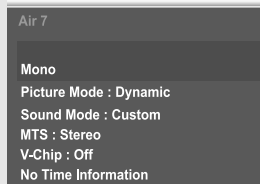The display identifies the current channel and the status of certain audio-video settings.

1

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

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

Air 7

Mono
Picture Mode : Dynamic
Sound Mode : Custom
MTS : Stereo
V-Chip : Off
No Time Information

◀ The screen displays disappear after about ten seconds.

◀ Press the INFO button once more or wait approximately 10 seconds and it disappears automatically.

Viewing the Menus

1

With the power on, press the **MENU** button.

The main menu appears on the screen. Its left side has six icons: Input, Picture, Sound, Channel, Setup, Guide.

T V	Input
Input	Source List : TV ▶
Picture	Edit Name ▶
Sound	Anynet ▶
Channel	
Setup	
Guide	
◆ Move	↵ Enter ▥ Exit
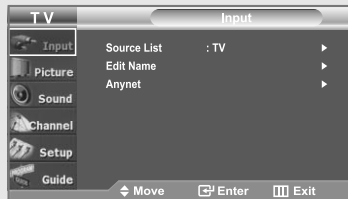
◀ The on-screen menus disappear from the screen after about two minutes.

2

Use the **UP/DOWN** ▲▼ buttons to select one of the six icons.

Then press the **ENTER** button to access the icon's sub-menu.

3

Press the **EXIT** button to exit.

Plug & Play Feature

When the TV is initially powered on, two basic customer settings proceed automatically and subsequently:

**Some OSD can be different depending on the model.**

1

Press the **POWER** ⏻ button on the remote control.

The message "Menu language, Channels and Time will be set." is displayed. Press the **ENTER** ⊡ button, then "Select the language of the OSD" menu is automatically displayed.

> ⓘ **Menu language, Channels and Time will be set.**
>
> **Start**

2
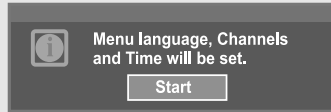
Press the **ENTER** ⊡ button to enter the language.

Press the **UP/DOWN** ▲▼ buttons to select language, then the **ENTER** ⊡ button. "Select the antennas to memorize." menu is automatically displayed.

> **Plug & Play**
>
> Select the language of the OSD.
>
> Menu language　　　: English　　　▶
>
> ⊡ Enter　　　　　▥ Skip

> **Plug & Play**
>
> Select the language of the OSD.
>
> Menu language　　English
> 　　　　　　　　Spanish
> 　　　　　　　　French
>
> ↕ Move　　⊡ Enter　　▥ Skip

3

Press the **UP/DOWN** ▲▼ buttons to memorize the channels of the selected connection.

Press the **ENTER** ⊡ button to select "Start".

> **Plug & Play**
>
> Select the antennas to memorize.
>
> Air　　　　　　　　Start
> Cable　　　　　　　Start
> Air + Cable　　　　Start
>
> ↕ Move　　⊡ Enter　　▥ Skip
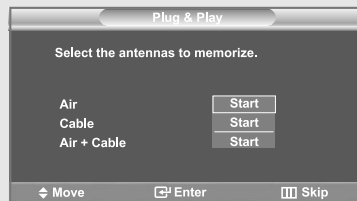
◀ • If the antenna is connected to ANT 1(CABLE), select "CABLE" and if it is connected to ANT 2 (AIR), select "AIR".
 • If both ANT 1 and ANT 2 are connected, select the "Air + Cable".
 • If the CableCARD is inserted into the "CableCARD" slot on the rear panel, "Cable" and "Air+Cable" are not available.

4-1 (LN-R269D / LN-R329D / LN32M51BD)

Press the **UP/DOWN** ▲▼ buttons to select "Cable" or "Air+Cable" then press the **ENTER** ⊕ button.

Press the **UP/DOWN** ▲▼ buttons to select "STD", "HRC" or "IRC", press the **ENTER** ⊕ button.

Plug & Play

Select the cable system.

STD
HRC
IRC

‡ Move   ⊕ Enter   ⊞ Skip

◄ 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.
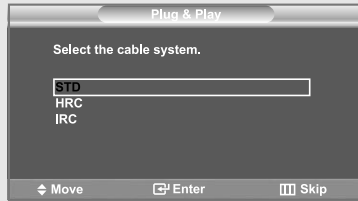At this point the signal source has been selected. Proceed to "Storing Channels in Memory".

4-2 (LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

Press the **UP/DOWN** ▲▼ buttons to select "Digital Channel", then press the **ENTER** ⊕ button.

Press the **UP/DOWN** ▲▼ buttons to select "STD", "HRC" or "IRC", press the **ENTER** ⊕ button.

Plug & Play

Select the cable system.

Digital Channel   : STD   ►
Analog Channel   : STD   ►
Start

‡ Move   ⊕ Enter   ⊞ Skip

Plug & Play

Select the cable system.

Digital Channel   : **STD**
Analog Channel   : HRC
Start   IRC

‡ Move   ⊕ Enter   ⊞ Skip

Press the **UP/DOWN** ▲▼ buttons to select "Analog Channel", then press the **ENTER** ⊕ button.
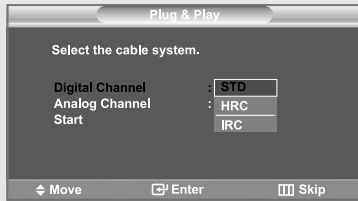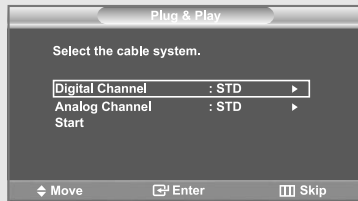
Press the **UP/DOWN** ▲▼ buttons to select "STD", "HRC" or "IRC", press the **ENTER** ⊕ button.

Plug & Play

Select the cable system.

Digital Channel   : STD
Analog Channel   : **STD**
Start   HRC
                      IRC

‡ Move   ⊕ Enter   ⊞ Skip
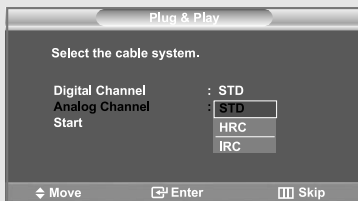
Press the **UP/DOWN** ▲▼ buttons to select "Start", then press the **ENTER** ⊕ button to memorize the channels.

Plug & Play

Select the cable system.

Digital Channel   : STD   ►
Analog Channel   : STD   ►
Start

‡ Move   ⊕ Enter   ⊞ Skip
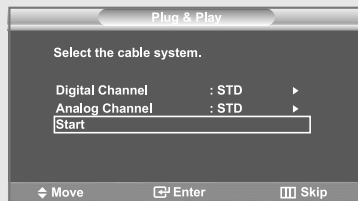
5

The TV will begin memorizing all of the available channels. After all the available channels are stored, the Auto program menu reappears. Press the **ENTER** ⊞ button when channel memorization is complete. "Set to daylight savings time." menu is automatically displayed.

> Plug & Play
> Auto Program in progress.
> Air Channel 40
> Stop
> ⊞ Enter   ⫴ Skip

> Plug & Play
> Updating Channel List
> OK
> ⊞ Enter   ⫴ Return

> Plug & Play
> Stop.
> 0 Channels were memorized.
> Check signal cable.
> OK
> ⊞ Enter   ⫴ Skip

Note
• To stop the search before it has finished, press the **ENTER** ⊞ button with stop selected.

6

Press the **ENTER** ⊞ button. Press the **UP/DOWN** ▲▼ buttons to select "Yes" or "No", then the **ENTER** ⊞ button. "Select your time zone in which you live" menu is automatically displayed.
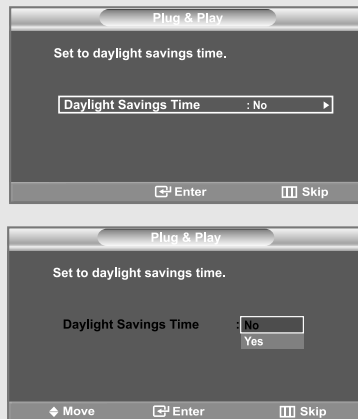
> Plug & Play
> Set to daylight savings time.
> Daylight Savings Time   : No   ►
> ⊞ Enter   ⫴ Skip

> Plug & Play
> Set to daylight savings time.
> Daylight Savings Time   : No
>   Yes
> ◆ Move   ⊞ Enter   ⫴ Skip

7

Press the **UP/DOWN** ▲▼ buttons to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States).

Press the **ENTER** button. If you have received a digital signal, the time will be set automatically.
If not, see page 76 to set the clock.

Plug & Play

Select your time zone in which you live.

Atlantic
Eastern
Central
Mountain
Pacific
Alaska
Hawaii

♦ Move   Enter   Skip

8

The message "Completed. Time will be updated automatically." is displayed. When you have finished, press the **ENTER** button.

Completed. Time will be updated automatically.

OK

If you want to reset this feature...

1

Press the **MENU** button.

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

T V   Setup

Input   Plug & Play   ▶
Picture   Language   : English   ▶
Sound   Time   ▶
Channel   V-Chip   ▶
Caption   ▶
Setup   Menu Transparency : Medium   ▶
Guide   ▼ More

♦ Move   Enter   Return

2

Press the **UP/DOWN** ▲▼ buttons to select "Plug & Play". Press the **ENTER** button.

For further details on setting up options, refer to the previous page.
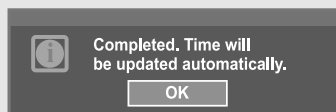
Menu language, Channels and Time will be set.

Start
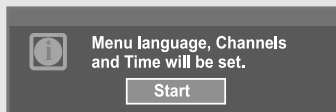
Note
• Plug and Play can only be accessed in the TV mode.

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 **UP/DOWN** ▲▼ buttons to select "Channel", then press the **ENTER** button.

| TV	Channel
Input	Antenna : Air ▶
Picture	Auto Program ▶
Sound	Add / Delete ▶
Channel	Favorite Channels ▶
Setup	Name ▶
Guide	Fine Tune ▶
	▼ More
	◆ Move ⊞ Enter ⫞⫞⫞ Return

2

Press the **ENTER** button select "Antenna".

Press the **UP/DOWN** ▲▼ buttons to select "Air" or "Cable", then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Channel
Input	Antenna : Air
Picture	Auto Program Cable
Sound	Add / Delete
Channel	Favorite Channels
Setup	Name
Guide	Fine Tune
	▼ More
	◆ Move ⊞ Enter ⫞⫞⫞ Return

Storing Channels in Memory (Automatic Method)

Some OSD can be different depending on the model.

1

Press the **MENU** button.
Press the **UP/DOWN** ▲▼
buttons to select "Channel",
then press the **ENTER**
button.

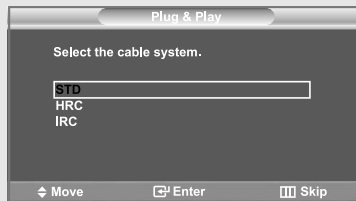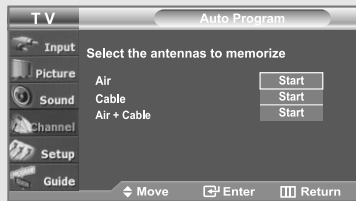| TV	Channel	
Input	Antenna : Air	►
Picture	Auto Program	►
Sound	Add / Delete	►
	Favorite Channels	►
Channel	Name	►
Setup	Fine Tune	►
Guide	▼ More	
	♦ Move ⊡ Enter Ⅲ Return	

2

Press the **UP/DOWN** ▲▼
buttons to select
"Auto Program", then press
the **ENTER** button.

TV	Channel	
Input	Antenna : Air	►
Picture	Auto Program	►
Sound	Add / Delete	►
	Favorite Channels	►
Channel	Name	►
Setup	Fine Tune	►
Guide	▼ More	
	♦ Move ⊡ Enter Ⅲ Return	

3-1 (LN-R269D / LN-R329D / LN32M51BD)

Press the **UP/DOWN** ▲▼
buttons to select the
antenna connection, then
press the **ENTER** button.
(See page 22)

TV	Auto Program	
Input	Select the antennas to memorize	
Picture	Air	Start
Sound	Cable	Start
Channel	Air + Cable	Start
Setup		
Guide	♦ Move ⊡ Enter Ⅲ Return	

Plug & Play	
Select the cable system.	
STD	
HRC	
IRC	
♦ Move ⊡ Enter Ⅲ Skip	

◄ • Air : "Air" antenna signal.
• Cable : "Cable" antenna
signal.
• Air+Cable : "Air" and
"Cable" antenna signals.

3-2 (LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

Press the **UP/DOWN** ▲▼
buttons to select the
antenna connection, then
press the **ENTER** button.
(See page 22)

TV	Auto Program	
Input	Select the antennas to memorize	
Picture	Air	Start
Sound	Cable	Start
Channel	Air + Cable	Start
Setup		
Guide	♦ Move ⊡ Enter Ⅲ Return	

Plug & Play	
Select the cable system.	
Digital Channel : STD	►
Analog Channel : STD	►
Start	
♦ Move ⊡ Enter Ⅲ Skip	
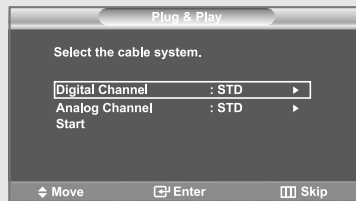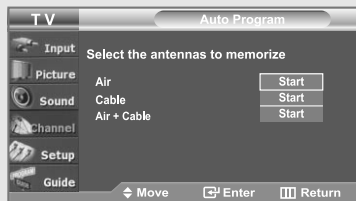
4

After all the available channels are stored, the "Auto Program" menu reappears.

Press the **EXIT** button to exit.

Auto Program

Auto Program in progress.

Air Channel 40

Stop

↵ Enter   Return

Auto Program

Updating Channel List

Auto Program

Stop.
0 Channels were memorized.
Check signal cable.

Return

Adding and Erasing Channels (Manual Method)

1

Press the **MENU** ⊞ button.
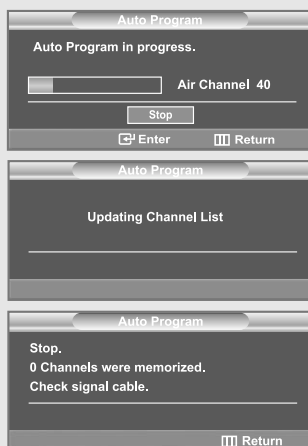
Press the **UP/DOWN** ▲▼ buttons to select "Channel", then press the **ENTER** ⊕ button.

T V	Channel	
Input	Antenna : Air	►
Picture	Auto Program	►
Sound	Add / Delete	►
Channel	Favorite Channels	►
Setup	Name	►
Guide	Fine Tune	►
	▼ More	
	‡ Move ⊕ Enter ⊞ Return	

2

Press the **UP/DOWN** ▲▼ buttons to select "Add/Delete", then press the **ENTER** ⊕ button.

T V	Channel	
Input	Antenna : Air	►
Picture	Auto Program	►
Sound	Add / Delete	►
Channel	Favorite Channels	►
Setup	Name	►
Guide	Fine Tune	►
	▼ More	
	‡ Move ⊕ Enter ⊞ Return	
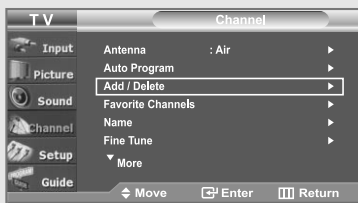
3

Repeatedly pressing the **ENTER** ⊕ button will alternate between add channel and delete channel.

Press the **CH** ∧ or **CH** ∨ buttons to switch to the appropriate channel, then repeat above.
Press the **EXIT** button to exit.

Add / Delete	
Air 38	Not in Memory
Press ENTER to add the channel.	
Add	
↻ Change ⊕ Enter ⊞ Return	

Add / Delete	
Air 38	In Memory
Press ENTER to delete the channel.	
Delete	
↻ Change ⊕ Enter ⊞ Return	

Setting Up Your Remote Control

After it has been set up properly, your remote control can operate in five different modes: TV, VCR, Cable, DVD, or Set-Top Box. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

Note
The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top Boxes.

Setting Up the Remote to Operate Your VCR

1 Turn off your VCR.

2 Press the MODE button and make sure that the VCR appears on the LCD screen.
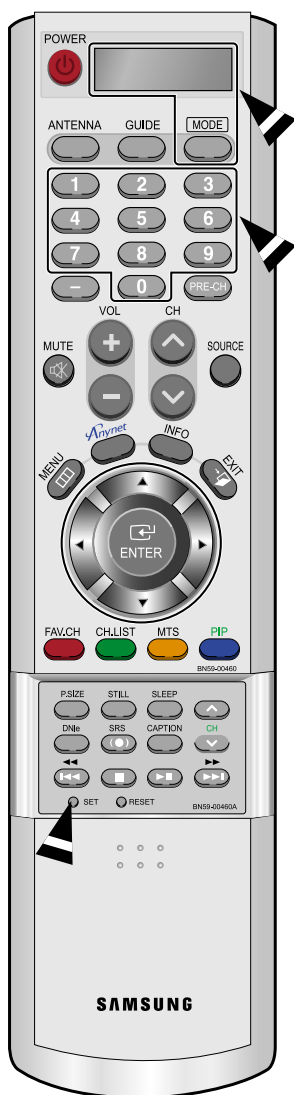
3 Press the **SET** button on your TV's remote control.

4 Using the number buttons on your remote control, enter three digits of the VCR code listed on page 32 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

5 Press the **POWER** button on the remote control. Your VCR should turn on if your remote is set up correctly.
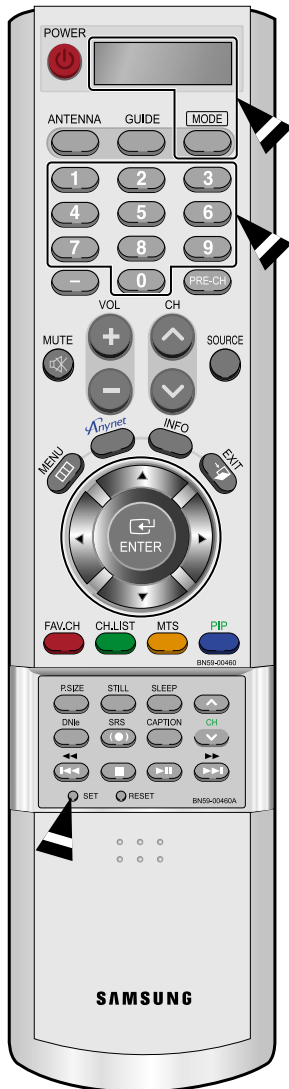
If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 072.

Note on Using Remote Control Modes: VCR
When your remote control is in "VCR" mode, the volume buttons still control your TV's volume.

Setting Up the Remote to Operate Your Cable Box

1 Turn off your cable box.

2 Press the MODE button and make sure that the CATV appears on the LCD screen.

3 Press the **SET** button on your TV's remote control.

4 Using the number buttons on your remote control, enter three digits of the cable box code listed on page 32 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a "0".
If there is more than one code listed, try the first one.

5 Press the Power button on the remote control. Your cable box should turn on if your remote is set up correctly.
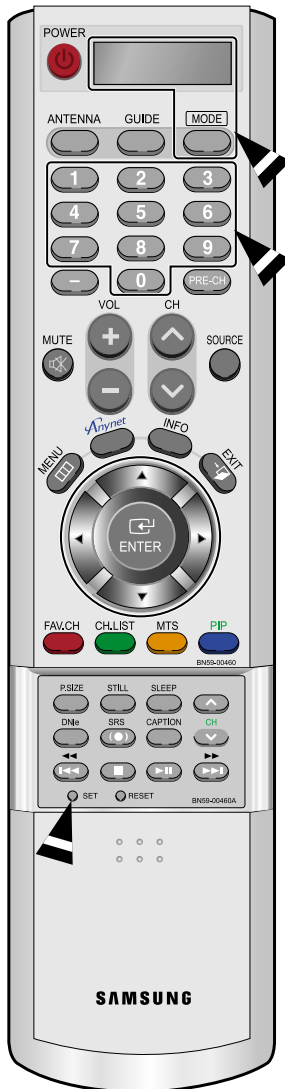
If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 045.

Note on Using Remote Control Modes: Cable Box
When your remote control is in "CATV" mode, the volume buttons still control your TV's volume.

Setting Up the Remote to Operate Your DVD

1 Turn off your DVD.

2 Press the MODE button and make sure that the DVD appears on the LCD screen.

3 Press the **SET** button on your TV's remote control.

4 Using the number buttons on your remote control, enter three digits of the DVD code listed on page 32 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0".
If there is more than one code listed, try the first one.

5 Press the Power button on the remote control. Your DVD should turn on if your remote is set up correctly.

If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 009.

Note on Using Remote Control Modes: DVD
When your remote control is in "DVD" mode, the volume buttons still control your TV's volume.

Remote Control Codes

VCR

Brand	Code
Aiwa	025
Curtis Mathes	002 017 007 008 021 025 056 064 066
Funai	025
GE	017 002 021 005 056
Hitachi	019 025 041 042
JC Penny	002 007 018 019 021 026 037 041 054 056
Kenwood	007 008 018 026 037
Magnavox	021 036 056 059
Marantz	008 007 018 021 026 036 037 062
NEC	018 007 026 037 008 062 064
Panasonic	021 056 071 072
Philco	021 036 056 059
Philips	021 036
Pioneer	019 026 036 053
RCA	017 019 002 021 035 041 043 057 068
Samsung	000
Sanyo	018 024
Sears	018 019 006 024 028 029 041 048 051
Sharp	020 034 045 015
Sony	027 033 044
Sylvania	021 025 036 056 059
Toshiba	003 019 029 051 052

Cable Box

Brand	Code
Hitachi	025 030
Panasonic	003 022 027 037 044
Philips	019 021 023 028
Pioneer	018 020 004 044
RCA	014 022 040
Samsung	000
Zenith	017 029 035 037 045

DVD

Brand	Code
Curtis Mathes	009
JVC	002
LG	006
Samsung	000 001
Sony	007
Panasonic	005
ProScan, RCA	003

To Select the Source

Use to select TV or other external input sources connected to the TV.
Use to select the input source of your choice.

Some OSD can be different depending on the model.

1

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

Press the **ENTER** button to select "Input".

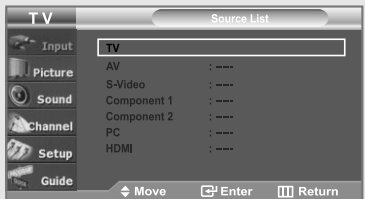| TV	Input	
Input	Source List	: TV	▶
Picture	Edit Name		▶
Sound	Anynet		▶
Channel		
Setup		
Guide		
	⬍ Move	⏎ Enter	⮺ Exit

2-1 **(LN-R269D)**

Press the **ENTER** button to select "Source List".

Press the **UP/DOWN** ▲▼ buttons to select signal source, then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Input	
Input	Source List	: TV	▶
Picture	Edit Name		▶
Sound	Anynet		▶
Channel		
Setup		
Guide		
	⬍ Move	⏎ Enter	⮺ Return

| TV	Source List	
Input	TV	
Picture	AV	: ----
Sound	S-Video	: ----
	Component 1	: ----
Channel	Component 2	: ----
Setup	PC	: ----
Guide	HDMI	: ----
	⬍ Move	⏎ Enter	⮺ Return

◀ (LN-R269D)
• When you connect equipment to the LCD, you can choose between the following sets of jacks: TV, AV, S-Video, Component 1, Component 2, PC, or HDMI on the TV's rear panel.

• HDMI input can only be selected when the external device is turned on and connected via HDMI.

2-2 **(LN-R329D / LN32M51BD / LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)**

Press the **ENTER** button to select "Source List".

Press the **UP/DOWN** ▲▼ buttons to select signal source, then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Input	
Input	Source List	: TV	▶
Picture	Edit Name		▶
Sound	Anynet		▶
Channel		
Setup		
Guide		
	⬍ Move	⏎ Enter	⮺ Return

TV	Source List	
Input	TV	
Picture	AV1	: ----
Sound	AV2	: ----
	S-Video1	: ----
Channel	S-Video2	: ----
Setup	Component 1	: ----
Guide	▼ More	
	⬍ Move	⏎ Enter	⮺ Return

TV	Source List	
Input	▲ More	
Picture	Component 2	: ----
Sound	PC	: ----
	HDMI	: ----
Channel		
Setup		
Guide		
	⬍ Move	⏎ Enter	⮺ Return

◀ (LN-R329D/LN32M51BD/LN-R409D/ LN40M51BD/LN-R469D/LN46M51BD)

• When you connect equipment to the LCD, you can choose between the following sets of jacks: TV, AV1, AV2, S-Video1, S-Video2, Component 1, Component 2, PC, or HDMI on the TV's rear panel.

• HDMI input can only be selected when the external device is turned on and connected via HDMI.

• For 32", 40" and 46", AV2/S-Video2 is placed on the side of the TV.

Alternate method:

Press the **SOURCE** button on the remote control to view an external signal source.
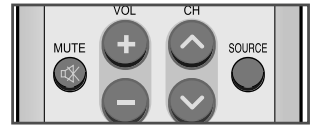
Note

You can choose only those external devices that are connected to the TV.

To Edit the Input Source Name

Name the device connected to the input jacks to make your input source selection easier.

Some OSD can be different depending on the model.
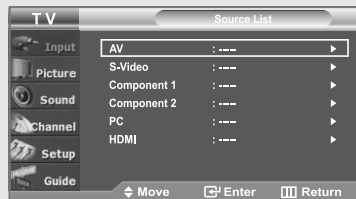
1

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

Press the **ENTER** button to select "Input".

Press the **UP/DOWN** buttons to select "Edit Name", then press the **ENTER** button.

TV	Input	
Input	Source List : TV	▶
Picture	Edit Name	▶
Sound	Anynet	▶
Channel		
Setup		
Guide		
	⬍ Move ◄┘ Enter ▥ Return	

TV	Input	
Input	Source List : TV	▶
Picture	Edit Name	▶
Sound	Anynet	▶
Channel		
Setup		
Guide		
	⬍ Move ◄┘ Enter ▥ Return	

2-1 (LN-R269D)

Press the **UP/DOWN** buttons to select "AV", "S-Video", "Component1", "Component2", "PC", or "HDMI" input jack, then press the **ENTER** button.

TV	Source List	
Input	AV : ----	▶
Picture	S-Video : ----	▶
Sound	Component 1 : ----	▶
Channel	Component 2 : ----	▶
Setup	PC : ----	▶
Guide	HDMI : ----	▶
	⬍ Move ◄┘ Enter ▥ Return	

2-2 (LN-R329D / LN32M51BD / LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

Press the **UP/DOWN** buttons to select "AV1", "AV2", "S-Video1", "S-Video2", "Component1", "Component2", "PC", or "HDMI" input jack, then press the **ENTER** button.

TV	Edit Name	
Input	AV1 : ----	▶
Picture	AV2 : ----	▶
Sound	S-Video1 : ----	▶
Channel	S-Video2 : ----	▶
Setup	Component 1 : ----	▶
Guide	▼ More	
	⬍ Move ◄┘ Enter ▥ Return	

TV	Edit Name	
Input	▲ More	
Picture	Component2 : ----	▶
Sound	PC : ----	▶
Channel	HDMI : ----	▶
Setup		
Guide		
	⬍ Move ◄┘ Enter ▥ Return	

3-1 (LN-R269D)

Press the **UP/DOWN** ▲▼ buttons to select "VCR", "DVD", "D-VHS", "Cable STB", "HD STB", "Satellite STB", "PVR STB", "AV Receiver", "DVD Receiver", "GAME", "Camcorder", "DVD Combo", "PC", "VOD STB", or "TV" input source, then press the **ENTER** button.

Press the **EXIT** button to exit.

	Source List
Input	AV : ──
Picture	S-Video : VCR
Sound	Component 1 : DVD
Channel	Component 2 : D-VHS
Setup	PC : Cable STB
Guide	HDMI : HD STB
	Satellite STB
	PVR STB ▼
◆ Move	⏎ Enter ▥ Return

	Source List
Input	AV : ▲
Picture	S-Video : AV Receiver
Sound	Component 1 : DVD Receiver
Channel	Component 2 : GAME
Setup	PC : Camcorder
Guide	HDMI : DVD Combo
	PC
	VOD STB
	TV
◆ Move	⏎ Enter ▥ Return

3-2 (LN-R329D / LN32M51BD / LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

Press the **UP/DOWN** ▲▼ buttons to select "VCR", "DVD", "D-VHS", "Cable STB", "HD STB", "Satellite STB", "PVR STB", "AV Receiver", "DVD Receiver", "GAME", "Camcorder", "DVD Combo", "PC", "VOD STB", or "TV" input source, then press the **ENTER** button.

Press the **EXIT** button to exit.

T V	Edit Name
Input	AV1 : ──
Picture	AV2 : VCR
Sound	S-Video1 : DVD
Channel	S-Video2 : D-VHS
Setup	Component 1 : Cable STB
Guide	More : HD STB
	Satellite STB
	PVR STB ▼
◆ Move	⏎ Enter ▥ Return

T V	Edit Name
Input	AV1 : ▲
Picture	AV2 : AV Receiver
Sound	S-Video1 : DVD Receiver
Channel	S-Video2 : GAME
Setup	Component 1 : Camcorder
Guide	More : DVD Combo
	PC
	VOD STB
	TV
◆ Move	⏎ Enter ▥ Return

Using Automatic Picture Settings

Your TV has four automatic picture settings ("Dynamic", "Standard", "Movie", and "Custom") that are preset at the factory. You can activate either Dynamic, Standard, Movie, or Custom by making a selection from the menu.
Or, you can select "Custom" which automatically recalls your personalized picture settings.
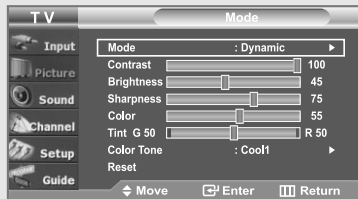
1

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

Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER**⏎ button.

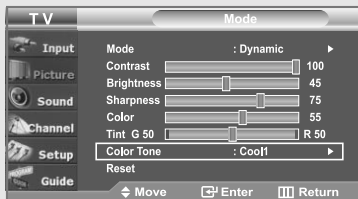| T V	Picture	
Input	Mode	: Dynamic ▶
Picture	Size	: 16:9 ▶
Sound	Digital NR	: On ▶
Channel	DNIe Demo	: Off ▶
Setup	My Color Control	▶
Guide	Dynamic Contrast	: On ▶
	▼ More	
	◆ Move ⏎ Enter ▦ Return	

2
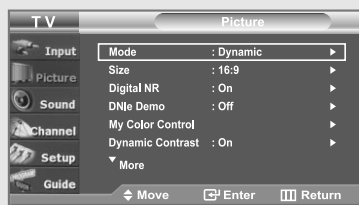
Press the **ENTER**⏎ button.

Press the **ENTER**⏎ button.

Press the **UP/DOWN** ▲▼ buttons to select the "Dynamic", "Standard", "Movie", or "Custom" picture setting.

Press the **ENTER**⏎ button.

◀ In case of the PC mode, Tint, Sharpness and Color are not available.

T V	Mode	
Input	Mode	: Dynamic ▶
Picture	Contrast	100
Sound	Brightness	45
Channel	Sharpness	75
Setup	Color	55
Guide	Tint G 50	R 50
	Color Tone	: Cool1 ▶
	Reset	
	◆ Move ⏎ Enter ▦ Return	

T V	Mode	
Input	Mode	Dynamic
Picture	Contrast	Standard
Sound	Brightness	Movie
Channel	Sharpness	Custom
Setup	Color	55
Guide	Tint G 50	R 50
	Color Tone	: Cool1
	Reset	
	◆ Move ⏎ Enter ▦ Return	
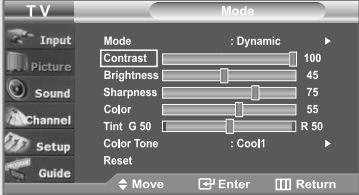
- Choose *Dynamic* to increase the clarity and sharpness of the picture.
- Choose *Standard* for the standard factory settings.
- Choose *Movie* when watching movies.
- Choose *Custom* if you want to adjust the settings according to personal preference.

Note
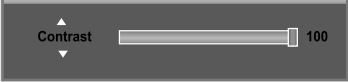
• Each adjusted value of Picture mode will be stored separately according to its input mode.

3

Press the **UP/DOWN** ▲▼
buttons to select "Contrast",
"Brightness", "Sharpness",
"Color", or "Tint", then press
the **ENTER** ⊞ button.

TV		Mode	
Input	Mode	: Dynamic	►
Picture	Contrast		100
Sound	Brightness		45
	Sharpness		75
Channel	Color		55
Setup	Tint G 50		R 50
Guide	Color Tone	: Cool1	►
	Reset		
	♦ Move	⊞ Enter	⊞ Return

4

Press the **LEFT/RIGHT** ◄►
buttons to decrease or
increase the value of a
particular item.

For example, if you select
"Contrast", pressing the
RIGHT ► button increases it.

Press the **ENTER** ⊞ button.

Press the **EXIT** button to
exit.

▲
Contrast ============ 100
▼

◄ The Tint can be adjusted in any
mode other than PC mode.

- "Tint" doesn't operate in HDMI or any Component modes.
- The Tint cannot be adjusted while watching Digital TV.
- Each adjusted setting will be stored separately according to its input mode.
- When you make changes to Contrast, Brightness, Color, Tint, OSD color will also
  be adjusted accordingly.

Adjusting the Color Tone

You can change the color of the entire screen according to your preference.

1

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

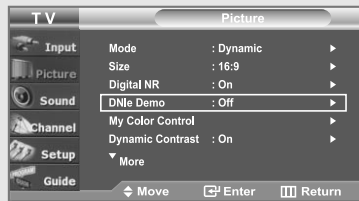Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER**⊕ button.

| TV	Picture	
Input	Mode	: Dynamic ▶
Picture	Size	: 16:9 ▶
Sound	Digital NR	: On ▶
Channel	DNIe Demo	: Off ▶
Setup	My Color Control	▶
Guide	Dynamic Contrast : On	▶
	▼ More	
	◆ Move ⊕ Enter ▭ Return	

2

Press the **ENTER**⊕ button.

TV	Mode	
Input	Mode	: Dynamic ▶
Picture	Contrast	100
Sound	Brightness	45
Channel	Sharpness	75
	Color	55
Setup	Tint G 50	R 50
Guide	Color Tone	: Cool1 ▶
	Reset	
	◆ Move ⊕ Enter ▭ Return	

3
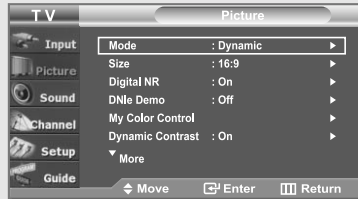
Press the **UP/DOWN** ▲▼ buttons to select "Color Tone", then press the **ENTER**⊕ button.

TV	Mode	
Input	Mode	: Dynamic ▶
Picture	Contrast	100
Sound	Brightness	45
Channel	Sharpness	75
	Color	55
Setup	Tint G 50	R 50
Guide	Color Tone	: Cool1 ▶
	Reset	
	◆ Move ⊕ Enter ▭ Return	

4

Press the **UP/DOWN** ▲▼ buttons to select "Cool2", "Cool1", "Normal", "Warm1", or "Warm2".

Press the **ENTER**⊕ button. Press the **EXIT** button to exit.

TV	Mode	
Input	Mode	: Dynamic ▶
Picture	Contrast	100
Sound	Brightness	45
	Sharpness	Cool2
Channel	Color	Cool1
	Tint G 50	Normal
Setup	Color Tone	Warm1
Guide	Reset	Warm2
	◆ Move ⊕ Enter ▭ Return	

◀ Choose from the following Color Tone settings: "Cool 2", "Cool 1", "Normal", "Warm 1", "Warm 2" according to personal preference.

Resetting the Picture Settings to the Factory Defaults

Press the **ENTER**⊕ button again to select "Mode". Press the **UP/DOWN** ▲▼ buttons to select "Reset", then press the **ENTER**⊕ button.

TV	Mode	
Input	Mode	: Dynamic ▶
Picture	Contrast	100
Sound	Brightness	45
Channel	Sharpness	75
	Color	55
Setup	Tint G 50	R 50
Guide	Color Tone	: Cool1 ▶
	Reset	
	◆ Move ⊕ Enter ▭ Return	
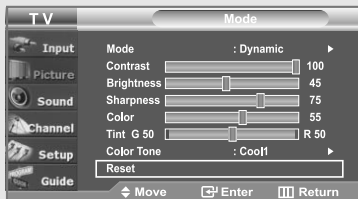
◀ Each mode can be reset.

DNIe (Digital Natural Image engine)

Samsung's new technology brings you more detailed images with contrast, white enhancement and 3D noise reduction.
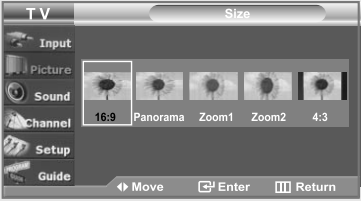You can see how DNIe improves the picture by setting DNIe demo mode to On.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER** button.

TV	Picture		
Input	Mode	: Dynamic	▶
Picture	Size	: 16:9	▶
Sound	Digital NR	: On	▶
	DNIe Demo	: Off	▶
Channel	My Color Control		▶
Setup	Dynamic Contrast	: On	▶
Guide	▼ More		
	♦ Move	Enter	Return

2
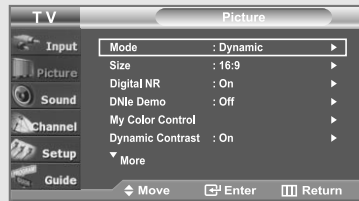
Press the **UP/DOWN** ▲▼ buttons to select "DNIe Demo", then press the **ENTER** button.

TV	Picture		
Input	Mode	: Dynamic	▶
Picture	Size	: 16:9	▶
Sound	Digital NR	: On	▶
	DNIe Demo	: Off	▶
Channel	My Color Control		▶
Setup	Dynamic Contrast	: On	▶
Guide	▼ More		
	♦ Move	Enter	Return

◀ This function doesn't work when Source is in PC mode.

3

Press the **UP/DOWN** ▲▼ buttons to select "Off" or "On", then press the **ENTER** button.

Press the **EXIT** button to exit.
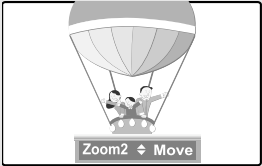
TV	Picture	
Input	Mode	: Dynamic
Picture	Size	: 16:9
Sound	Digital NR	: On
	DNIe Demo	Off
Channel	My Color Control	On
Setup	Dynamic Contrast	: On
Guide	▼ More	
	♦ Move	Enter Return
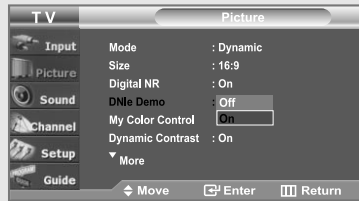
Alternate method :

Press the **DNIe** button under the remote's cover to change the DNIe Demo mode.
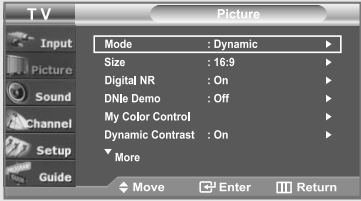
- DNIe Demo: Off

  DNIe Demo mode is deactivated.

- DNIe Demo: On

  The right-hand side of the screen shows the improved DNIe image.

  The left-hand side of the screen shows the original image.

- The "DNIe Demo" is designed to show the difference between the regular and DNIe pictures.
- By default, the product displays the picture with DNIe applied.
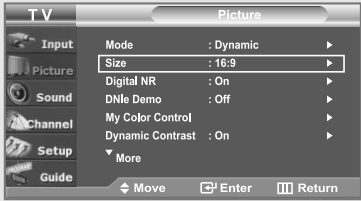
Changing the Screen Size

Screen size selection depends on the type of video input.

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

Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER** button.

TV	Picture	
Input	Mode : Dynamic	▶
Picture	Size : 16:9	▶
Sound	Digital NR : On	▶
Channel	DNIe Demo : Off	▶
Setup	My Color Control	▶
Guide	Dynamic Contrast : On	▶
	▼ More	
	◆ Move ⏎ Enter ▥ Return	

2
Press the **UP/DOWN** ▲▼ buttons to select "Size", then press the **ENTER** button.

TV	Picture	
Input	Mode : Dynamic	▶
Picture	Size : 16:9	▶
Sound	Digital NR : On	▶
Channel	DNIe Demo : Off	▶
Setup	My Color Control	▶
Guide	Dynamic Contrast : On	▶
	▼ More	
	◆ Move ⏎ Enter ▥ Return	

3
Press the **LEFT/RIGHT** ◀▶ buttons to select the screen format you want.

Press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Size	
Input		
Picture		
Sound		
Channel	16:9 Panorama Zoom1 Zoom2 4:3	
Setup		
Guide	◀▶ Move ⏎ Enter ▥ Return	
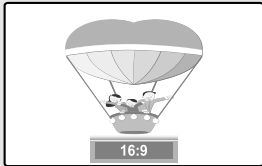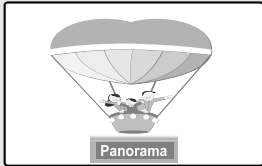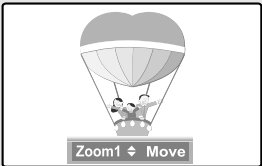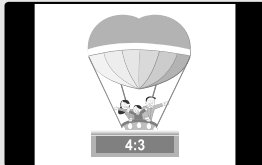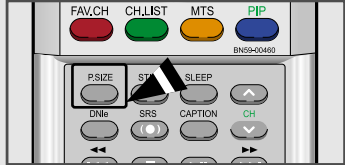
- 16:9 : Sets the picture to 16:9 wide mode.
- Panorama : Use this mode for the wide aspect ratio of a panoramic picture.
- Zoom1 : Magnifies the size of the picture on the screen.
- Zoom2 : Expands the Zoom1 format picture.
- 4:3 : Sets the picture to 4:3 normal mode.

When you press the P.SIZE button under the cover of the remote control, the TV's screen mode should appear in sequence. The screen displays in this order: 16:9, Panorama, Zoom1, Zoom2, 4:3.

Note
• If you watch a still image or the 4:3 mode for a long time (over 2 hours), an image may be burned onto the screen. View the TV in 16:9 or Panorama mode as much as possible.

• HD (High Definition)
   16:9 - 1080i (1920x1080)
          720P (1280x720)

16:9
Sets the picture to 16:9 wide mode.

Panorama
Converts regular 4:3 aspect ratio screen to wide screen.

Zoom1
The screen size when Wide screen is vertically enlarged.

Zoom2
The screen size when the Zoom1 screen is vertically enlarged.

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

Note
• In TV, VIDEO, S-VIDEO,and all COMPONENT (480i, 480p) modes, all screen modes can be selected. (16:9 • Panorama • Zoom1 • Zoom2 • 4:3).
• In TV(DTV), DVI, PC, HDMI, COMPONENT (720p, 1080i) modes, only 16:9 & 4:3 modes can be selected.
• In Zoom1, Zoom2 modes, you can move the picture on screen by pressing the **UP/DOWN** ▲▼ buttons.
• Picture size will not change when PIP size is Double.

Freezing the Picture

1

Press the **STILL** button to freeze a moving picture.
• Normal sound will still be heard.
  Press again to cancel.
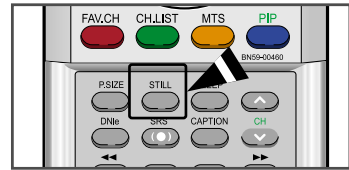
Viewing Picture-in-Picture

This product has one built-in tuner, which does not allow PIP to function in the same mode. For example, you cannot watch one TV channel in the main screen, and a different one in the PIP screen. Please see 'PIP Settings' below for details.

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

Note: While V-Chip is in operation, the PIP function cannot be used.

Activating Picture-in-Picture

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "PIP", then press the **ENTER** button.

TV	Picture	
Input		
Picture	Mode : Dynamic	►
	Size : 16:9	►
Sound	Digital NR : On	►
	DNIe Demo : Off	►
Channel	My Color Control	►
Setup	Dynamic Contrast : On	►
	▼ More	
Guide		
	♦ Move ⏎ Enter ⊞ Return	

| TV	Picture	
Input	▲ More	
Picture	Brightness Sensor : Off	►
	Film Mode : Off	►
Sound	PIP	►
Channel		
Setup		
Guide		
	♦ Move ⏎ Enter ⊞ Return	

2

Press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "On", then press the **ENTER** button.

TV	PIP	
Input	PIP : Off	►
Picture	Source : HDMI	►
	Swap	
Sound	Size : ▭	►
	Position : ▭	►
Channel	PIP Channel : Cable 3	►
Setup		
Guide		
	⏎ Enter ⊞ Return	

TV	PIP	
Input	PIP Off	
Picture	Source On	
	Swap	
Sound	Size : ▭	
	Position : ▭	
Channel	PIP Channel : Cable 3	
Setup		
Guide		
	♦ Move ⏎ Enter ⊞ Return	

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

Alternate method :
Press the **PIP** button on the remote control repeatedly to activate or deactivate the PIP.
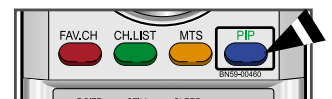
PIP Settings

O: PIP operates
X: PIP doesn't operate

Main Picture / Sub Picture	DTV	ATV	AV (1, 2)	S-Video (1, 2)	COM (1, 2)	PC	HDMI
DTV	X	X	O	O	O	X	X
ATV	X	X	X	X	X	O	O
AV (1, 2)	O	X	X	X	X	O	O
S-Video (1, 2)	O	X	X	X	X	O	O
COM (1, 2)	O	X	X	X	X	O	O
PC	X	X	X	X	X	X	X
HDMI	X	O	O	O	O	X	X

Note
• ATV : Analog TV
• DTV : Digital TV
• COM (1, 2) : Component (1, 2)

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

Some OSD can be different depending on the model.

3-1 (LN-R269D)

Press the **UP/DOWN** ▲▼ buttons to select "Source", then press the **ENTER** button.

Select the source of the sub picture (PIP) by pressing the **UP/DOWN** ▲▼ buttons and press the **ENTER** button.

◄ • MAIN : TV(ATV)
   PIP : HDMI

• The sub picture can serve different source selections based on what the main picture is set to.

◄ In the PIP Source selection menu, 'TV' represents both analog and digital tuning.

3-2 (LN-R329D / LN32M51BD / LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

Press the **UP/DOWN** ▲▼ buttons to select "Source", then press the **ENTER** button.

Select the source of the sub picture (PIP) by pressing the **UP/DOWN** ▲▼ buttons and press the **ENTER** button.

Swapping the Contents of the PIP and Main image

4

Press the **UP/DOWN** ▲▼ buttons to select "Swap", then press the **ENTER** button.

TV		PIP	
Input	PIP	: On	▶
Picture	Source	: HDMI	▶
Sound	Swap		
	Size	: ▣	▶
Channel	Position	: ▭	▶
Setup	PIP Channel	: Cable 3	▶
Guide			
	⬍ Move	⏎ Enter	▥ Return
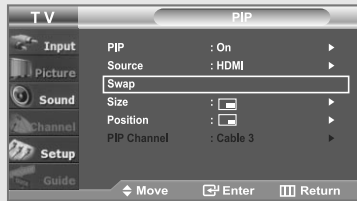
Changing the PIP Channel

5

Press the **UP/DOWN** ▲▼ buttons to select "PIP Channel", then press the **ENTER** button.
Press the **UP/DOWN** ▲▼ buttons to select the desired channel in the PIP window.

TV		PIP	
Input	PIP	: On	▶
Picture	Source	: HDMI	▶
Sound	Swap		
	Size	: ▣	▶
Channel	Position	: ▭	▶
Setup	PIP Channel	: Cable 3	▶
Guide			
	⬍ Move	⏎ Enter	▥ Return

TV		PIP	
Input	PIP	: On	
Picture	Source	: HDMI	
Sound	Swap		
	Size	: ▣	
Channel	Position	: ▭	
Setup	PIP Channel	: ▲ Cable3 ▼	
Guide			
	⬍ Move	⏎ Enter	▥ Return

Press the **ENTER** buttons.

TV		PIP	
Input	PIP	: On	▶
Picture	Source	: HDMI	▶
Sound	Swap		
	Size	: ▣	▶
Channel	Position	: ▭	▶
Setup	PIP Channel	: Cable 3	▶
Guide			
	⬍ Move	⏎ Enter	▥ Return

◀ • MAIN : AV(1, 2), S-Video(1, 2),
        COM(1, 2)
   PIP   : TV(DTV)

• MAIN : PC, HDMI
   PIP   : TV(ATV)

• The channel can be active when the sub picture is set to TV.

Alternate method :
Press the PIP Channel buttons under the remote's cover.

Changing the Position of the PIP Window

6

Press the **UP/DOWN** ▲▼ buttons to select "Position", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select the desired PIP window position.

T V		PIP
Input	PIP	: On ▶
Picture	Source	: HDMI ▶
Sound	Swap	
	Size	: ☐ ▶
Channel	Position	: ☐ ▶
Setup	PIP Channel	: Cable 3 ▶
Guide		
	↕ Move	⏎ Enter ⫼ Return

T V		PIP
Input	PIP	: On
Picture	Source	: HDMI
Sound	Swap	
	Size	: ☐
Channel	Position	☐
Setup	PIP Channel	: ☐
Guide		☐
		☐
	↕ Move	⏎ Enter ⫼ Return

Press the **ENTER** buttons.

T V		PIP
Input	PIP	: On ▶
Picture	Source	: HDMI ▶
Sound	Swap	
	Size	: ☐ ▶
Channel	Position	: ☐ ▶
Setup	PIP Channel	: Cable 3 ▶
Guide		
	↕ Move	⏎ Enter ⫼ Return

• The Double (☐) mode cannot be selected in position.

Changing the Size of the PIP Window

7

Press the **UP/DOWN** ▲▼ buttons to select "Size", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select the desired size of the PIP window.

Press the **ENTER** button.

Press the **EXIT** button to exit.

◀ If main picture is in **PC** mode, **Size** is not available.

T V		PIP
Input	PIP	: On ▶
Picture	Source	: HDMI ▶
Sound	Swap	
	Size	: ☐ ▶
Channel	Position	: ☐ ▶
Setup	PIP Channel	: Cable 3 ▶
Guide		
	↕ Move	⏎ Enter ⫼ Return

T V		PIP
Input	PIP	: On
Picture	Source	: HDMI
Sound	Swap	
	Size	☐
Channel	Position	: ☐
Setup	PIP Channel	: ☐
Guide		
	↕ Move	⏎ Enter ⫼ Return

• When the PC is in energy saving mode, you cannot choose the PIP option.
• You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
• You can adjust picture position only by using the ☐ size menu.

My Color Control

My Color Control allows users to adjust colors to their preference by adjusting Pink, Blue and Green using the predefined settings (Red, Green, Blue, Yellow, Pink, White, Standard, and Custom) without affecting other colors on the screen.
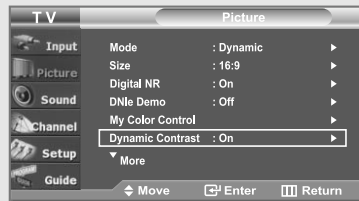
Easy Control

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER** button.

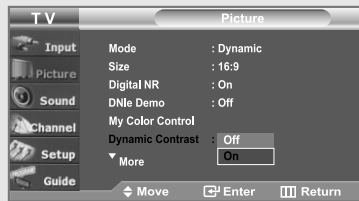Press the **UP/DOWN** ▲▼ buttons to select "My Color Control", then press the **ENTER** button.
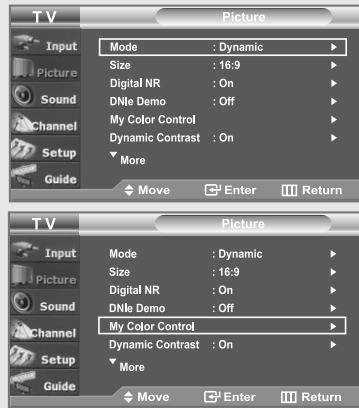
◄ You can also directly access "My Color Control" by pressing and holding the ENTER button for three seconds with no menu on the screen.

2
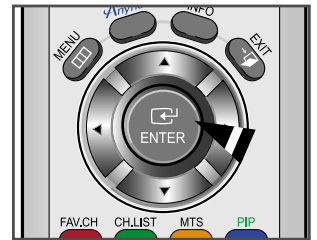
Press the **UP/DOWN** ▲▼ buttons to select "Easy Control", then press the **ENTER** button.
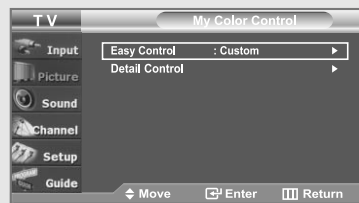
◄ This function doesn't work when Source is in PC mode.

3

Press the **LEFT/RIGHT** ◄► buttons to select the desired My Color Control color, then press the **ENTER** button.

The Original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.

◄ This captures the current screen in a still image to adjust the color.

* The sources are displayed in the following order:
  Red-Green-Blue-Yellow-Pink-White-Standard-Custom

Detail Control

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER** button.
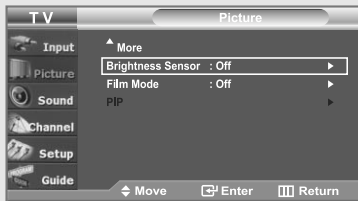
Press the **UP/DOWN** ▲▼ buttons to select "My Color Control", then press the **ENTER** button.

T V	Picture	
Input	Mode	: Dynamic ▶
Picture	Size	: 16:9 ▶
Sound	Digital NR	: On ▶
	DNIe Demo	: Off ▶
Channel	My Color Control	▶
Setup	Dynamic Contrast	: On ▶
Guide	▼ More	
	♦ Move ☐ Enter ▥ Return	

T V	Picture	
Input	Mode	: Dynamic ▶
Picture	Size	: 16:9 ▶
Sound	Digital NR	: On ▶
	DNIe Demo	: Off ▶
Channel	My Color Control	▶
Setup	Dynamic Contrast	: On ▶
Guide	▼ More	
	♦ Move ☐ Enter ▥ Return	
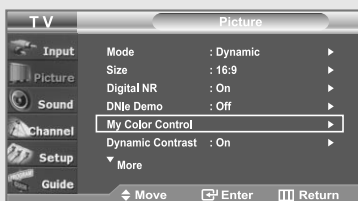
◀ You can adjust Red, Green, Blue, Yellow, Pink and White without using the predefined settings in custom mode.

2

Press the **UP/DOWN** ▲▼ buttons to select "Detail Control", then press the **ENTER** button.
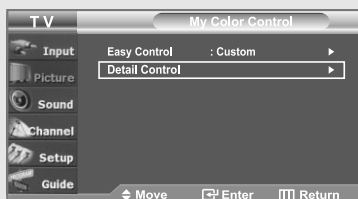
T V	My Color Control	
Input	Easy Control	: Custom ▶
Picture	Detail Control	▶
Sound		
Channel		
Setup		
Guide		
	♦ Move ☐ Enter ▥ Return	

◀ This function doesn't work when the Source is in PC mode.

3

Press the **UP/DOWN** ▲▼ buttons to select the desired My Color Control color and press the **ENTER** button. (To reset the "Detail Control", select "Reset" by pressing the **UP/DOWN** ▲▼ buttons and then press the **ENTER** button.)

Press the **LEFT/RIGHT** ◀▶ buttons to increase or decrease the value of a particular item.

Press the **ENTER** button .

Press the **EXIT** button to exit.

T V	Detail Control	
Input	Red	50
Picture	Green	50
Sound	Blue	50
	Yellow	50
Channel	Pink	55
Setup	White	50
Guide	Reset	
	♦ Move ☐ Enter ▥ Return	

Original   Adjusted

Detail Control
Red   50
♦ Move   ◀▶ Adjust   ▥ Return

Detail Control
Red   50
♦ Move   ◀▶ Adjust   ▥ Return
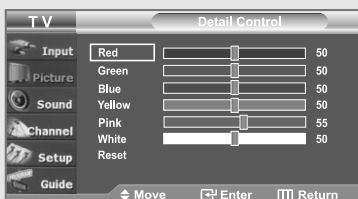
* The sources are displayed in the following order:
  Red-Green-Blue-Yellow-Pink-White-Reset

Dynamic Contrast

Dynamic Contrast detects the visual signal input and adjusts to create optimum contrast.

1

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

Press the **UP/DOWN** buttons to select "Picture", then press the **ENTER** button.

| TV		Picture	
Input	Mode	: Dynamic	▶
Picture	Size	: 16:9	▶
Sound	Digital NR	: On	▶
	DNIe Demo	: Off	▶
Channel	My Color Control		▶
Setup	Dynamic Contrast	: On	▶
Guide	▼ More		
	♦ Move	Enter	Return

2
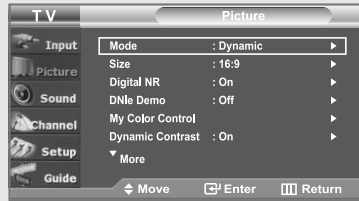
Press the **UP/DOWN** buttons to select "Dynamic Contrast", then press the **ENTER** button.

TV		Picture	
Input	Mode	: Dynamic	▶
Picture	Size	: 16:9	▶
Sound	Digital NR	: On	▶
	DNIe Demo	: Off	▶
Channel	My Color Control		▶
Setup	Dynamic Contrast	: On	▶
Guide	▼ More		
	♦ Move	Enter	Return

◄ This function doesn't work when the Source is in PC mode, or PIP is set to on.

3

Press the **UP/DOWN** buttons to select "On", then press the **ENTER** button.

Press the **EXIT** button to exit.

TV		Picture	
Input	Mode	: Dynamic	
Picture	Size	: 16:9	
Sound	Digital NR	: On	
	DNIe Demo	: Off	
Channel	My Color Control		
Setup	Dynamic Contrast	: Off	
Guide	▼ More	On	
	♦ Move	Enter	Return

Brightness Sensor

The Brightness Sensor adjusts the screen brightness automatically by using a light detecting sensor.

1

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

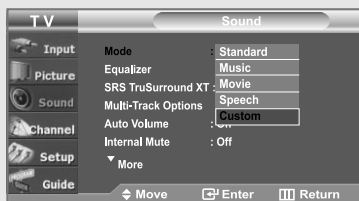Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER** button.

TV	Picture	
Input	Mode : Dynamic	▶
Picture	Size : 16:9	▶
Sound	Digital NR : On	▶
Channel	DNIe Demo : Off	▶
Setup	My Color Control	▶
Guide	Dynamic Contrast : On	▶
	▼ More	
	♦ Move Enter Return	

2
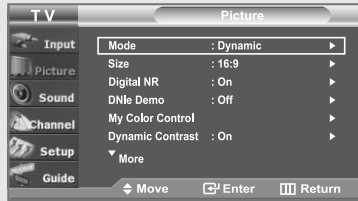
Press the **UP/DOWN** ▲▼ buttons to select "Brightness Sensor", then press the **ENTER** button.

TV	Picture	
Input	▲ More	
Picture	Brightness Sensor : Off	▶
Sound	Film Mode : Off	▶
Channel	PIP	▶
Setup		
Guide		
	♦ Move Enter Return	

◀ This function doesn't work when the Source is in PC mode.

3

Press the **LEFT/RIGHT** ◀▶ buttons to select "On", then press the **ENTER** button.

Press the **EXIT** button to exit.

Brightness Sensor

– ▯▯▯▯▯▯▯▯ +

Off   On

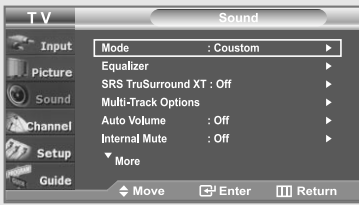◆ Move   Enter   Return

Brightness Sensor

– ▯▯▯▯▯▯▯ +

Off   On

◆ Move   Enter   Return
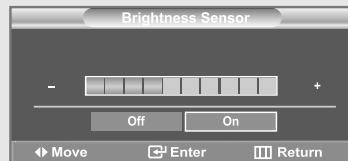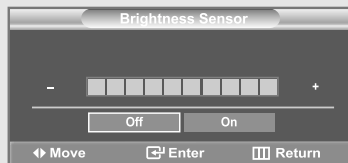
◀ Screen brightness is adjusted automatically depending on the brightness of the surrounding environment.

◀ You can also directly access "Brightness Sensor" by pressing and holding the EXIT button for three seconds with no Menu on the screen.

Customizing the Sound

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

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER** button.

2
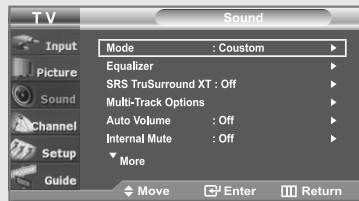
Press the **UP/DOWN** ▲▼ buttons to select "Equalizer", then press the **ENTER** button.

3
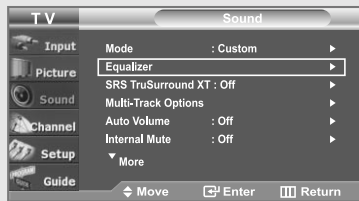
Press the **LEFT/RIGHT** ◄► buttons to select a particular frequency to adjust.
Press the **UP/DOWN** ▲▼ buttons to increase or decrease the level of the particular frequency.

Press the **ENTER** button.

Press the **EXIT** button to exit.
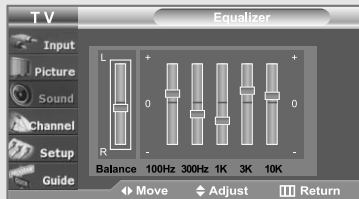
• **L/R Sound Balance Adjustment**
  To adjust the sound balance of the L/R speakers.

• **Bandwidth Adjustment (100, 300, 1K, 3K, 10K)**
  To adjust the level of different bandwidth frequencies.

Using Automatic Sound Settings

Your TV has automatic sound settings ("Standard", "Music", "Movie", "Speech", and "Custom") that are preset at the factory. Or, you can select "Custom", which automatically recalls your personalized sound settings.

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

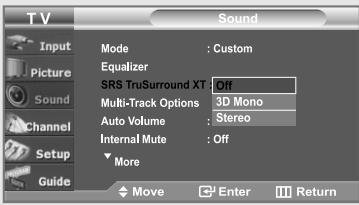Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER** button.

TV	Sound	
Input	Mode : Coustom	▶
Picture	Equalizer	▶
Sound	SRS TruSurround XT : Off	▶
	Multi-Track Options	▶
Channel	Auto Volume : Off	▶
Setup	Internal Mute : Off	▶
Guide	▼ More	
	◆ Move Enter Return	
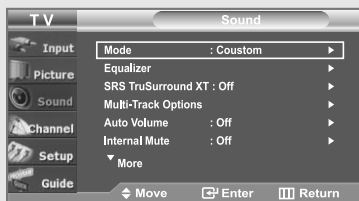
2
Press the **ENTER** button to select "Mode".

Press the **UP/DOWN** ▲▼ buttons to select "Standard", "Music", "Movie", "Speech", or "Custom" sound setting, then press the **ENTER** button.

Press the **EXIT** button to exit.

| TV	Sound	
Input	Mode : Standard	
Picture	Equalizer Music	
Sound	SRS TruSurround XT Movie	
	Multi-Track Options Speech	
Channel	Auto Volume Custom	
Setup	Internal Mute : Off	
Guide	▼ More	
	◆ Move Enter Return	

- Choose *Standard* for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose *Movie* when watching movies.
- Choose *Speech* when watching a show that is mostly dialog (i.e., news).
- Choose *Custom* to recall your personalized settings
 (see "Customizing the Sound", page 52).

Setting the TruSurround XT
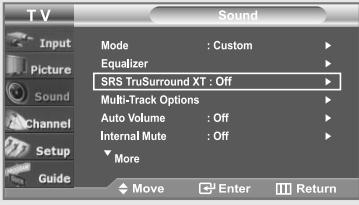
TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. Trusurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER** ⊕ button.

TV	Sound
Input	Mode : Coustom ▶
Picture	Equalizer ▶
Sound	SRS TruSurround XT : Off ▶
Channel	Multi-Track Options ▶
Setup	Auto Volume : Off ▶
Guide	Internal Mute : Off ▶
	▼ More
	⬍ Move ⊕ Enter ▥ Return

2

Press the **UP/DOWN** ▲▼ buttons to select "SRS TruSurround XT", then press the **ENTER** ⊕ button.

TV	Sound
Input	Mode : Custom ▶
Picture	Equalizer ▶
Sound	SRS TruSurround XT : Off ▶
Channel	Multi-Track Options ▶
Setup	Auto Volume : Off ▶
Guide	Internal Mute : Off ▶
	▼ More
	⬍ Move ⊕ Enter ▥ Return

3

Press the **UP/DOWN** ▲▼ buttons to select "Off", "3D Mono", "Stereo", then press the **ENTER** ⊕ button.

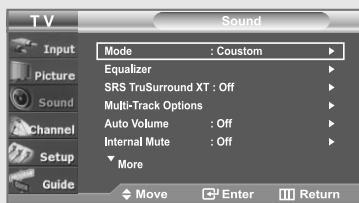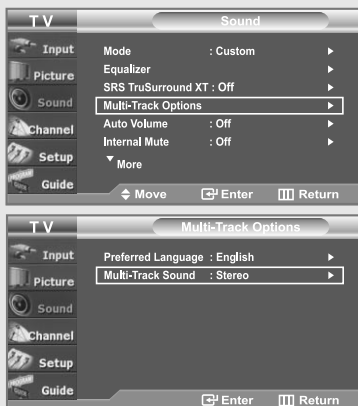Press the **EXIT** button to exit.

TV	Sound
Input	Mode : Custom
Picture	Equalizer
Sound	SRS TruSurround XT : Off
Channel	Multi-Track Options 3D Mono
Setup	Auto Volume : Stereo
Guide	Internal Mute : Off
	▼ More
	⬍ Move ⊕ Enter ▥ Return

TRADEMARK & LABEL LICENSE NOTICE

SRS ⦿
SRS TruSurround XT

TruSurround XT, SRS and ⦿ Symbol are trademarks of SRS Labs, Inc.
TruSurround XT technology is incorporated under license from SRS Labs, Inc.
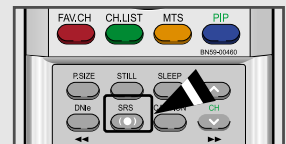
Choosing a Multi-Channel Sound (MTS) track - Digital

The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).
The availability of these additional "multitracks" depends upon the program.

Preferred Language

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER** button.
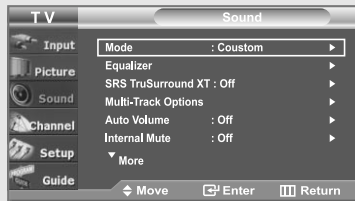
◀ Quick way to access the MTS menu: Just press the "MTS" button on the remote control.
You can listen in a language other than your chosen language by pressing the MTS button.
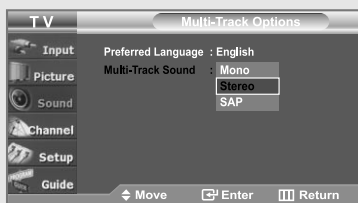
2

Press the **UP/DOWN** ▲▼ buttons to select "Multi-Track Options", then press the **ENTER** button.

3
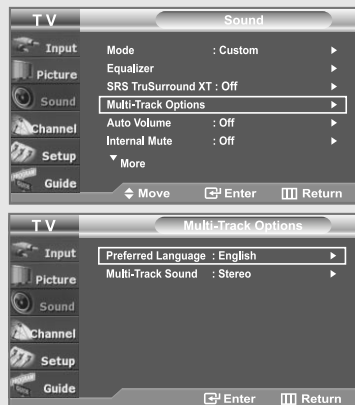
Press the **ENTER** button to select "Preferred Language". Press the **UP/DOWN** ▲▼ buttons to choose the language (English, Spanish or French) you want, then press the **ENTER** button.

Press the **EXIT** button to exit.

Multi-Track Sound

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

Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER** button.

TV	Sound
Input	Mode : Coustom ▶
Picture	Equalizer ▶
Sound	SRS TruSurround XT : Off ▶
Channel	Multi-Track Options ▶
Setup	Auto Volume : Off ▶
Guide	Internal Mute : Off ▶
	▼ More
	◆ Move ↵ Enter ▥ Return

2
Press the **UP/DOWN** ▲▼ buttons to select "Multi-Track Options", then press the **ENTER** button.

TV	Sound
Input	Mode : Custom ▶
Picture	Equalizer ▶
Sound	SRS TruSurround XT : Off ▶
Channel	Multi-Track Options ▶
Setup	Auto Volume : Off ▶
Guide	Internal Mute : Off ▶
	▼ More
	◆ Move ↵ Enter ▥ Return

TV	Multi-Track Options
Input	Preferred Language : English ▶
Picture	Multi-Track Sound : Stereo ▶
Sound	
Channel	
Setup	
Guide	↵ Enter ▥ Return

3
Press the **UP/DOWN** ▲▼ buttons to select "Multi-Track Sound", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select a setting you want, then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Multi-Track Options
Input	Preferred Language : English
Picture	Multi-Track Sound : Mono
Sound	Stereo
Channel	SAP
Setup	
Guide	◆ Move ↵ Enter ▥ Return

• 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.

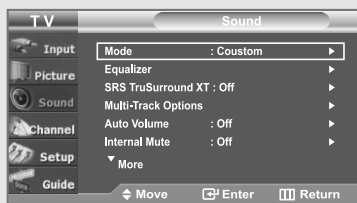## Automatic Volume Control

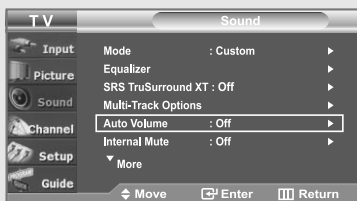Reduces the differences in volume level among broadcasters.

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

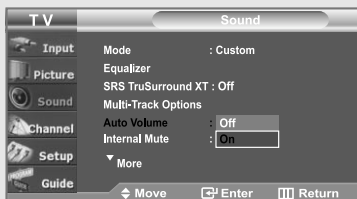Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER** button.

2
Press the **UP/DOWN** ▲▼ buttons to select "Auto Volume", then press the **ENTER** button.

3
Press the **UP/DOWN** ▲▼ buttons to set Auto Volume "On" then press the **ENTER** button.
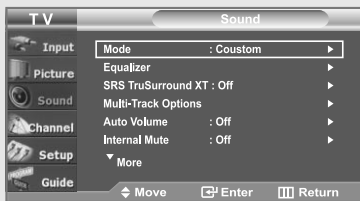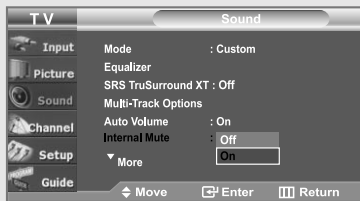
Press the **EXIT** button to exit.

Selecting the Internal Mute

Sound output from the TV speakers is muted.

1

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

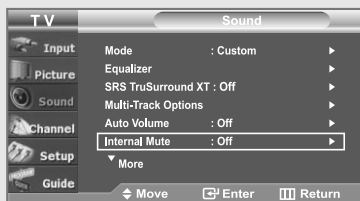Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER** button.

TV		Sound	
Input	Mode	: Coustom	▶
Picture	Equalizer		▶
Sound	SRS TruSurround XT : Off		▶
Channel	Multi-Track Options		▶
Setup	Auto Volume	: Off	▶
Guide	Internal Mute	: Off	▶
	▼ More		
	◆ Move	← Enter	⫶⫶⫶ Return

2

Press the **UP/DOWN** ▲▼ buttons to select "Internal Mute", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "On", then press the **ENTER** button.

Press the **EXIT** button to exit.

TV		Sound	
Input	Mode	: Custom	▶
Picture	Equalizer		▶
Sound	SRS TruSurround XT : Off		▶
Channel	Multi-Track Options		▶
Setup	Auto Volume	: Off	▶
Guide	Internal Mute	: Off	▶
	▼ More		
	◆ Move	← Enter	⫶⫶⫶ Return

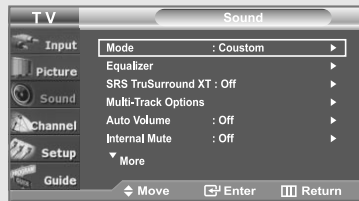| TV		Sound	
Input	Mode	: Custom	
Picture	Equalizer		
Sound	SRS TruSurround XT : Off		
Channel	Multi-Track Options		
Setup	Auto Volume	: On	
Guide	Internal Mute	: Off	
	▼ More	On	
	◆ Move	← Enter	⫶⫶⫶ Return

Choosing a Digital Sound Format

Digital sound can be output from the rear panel connector on your TV. The digital sound output is a connector labeled "Optical". After connecting a digital-audio component, you must specify the transmission format (Dolby or PCM, as appropriate to your digital audio component).

1

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

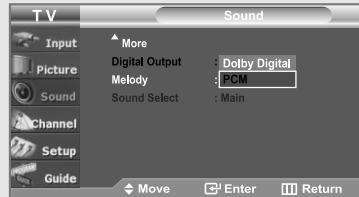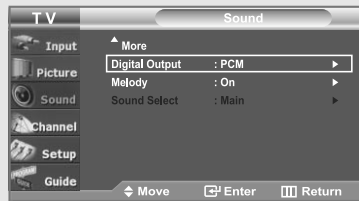Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER**⏎ button.

T V	Sound
Input	Mode : Coustom ▶
Picture	Equalizer ▶
Sound	SRS TruSurround XT : Off ▶
	Multi-Track Options ▶
Channel	Auto Volume : Off ▶
Setup	Internal Mute : Off ▶
Guide	▼ More
	⬍ Move ⏎ Enter ▥ Return

2

Press the **UP/DOWN** ▲▼ buttons to select "Digital Output", then press the **ENTER**⏎ button.
Press the **UP/DOWN** ▲▼ buttons to select "Dolby Digital" or "PCM", then press the **ENTER**⏎ button.

Press the **EXIT** button to exit.

T V	Sound
Input	▲ More
Picture	Digital Output : PCM ▶
Sound	Melody : On ▶
	Sound Select : Main ▶
Channel	
Setup	
Guide	
	⬍ Move ⏎ Enter ▥ Return

T V	Sound
Input	▲ More
Picture	Digital Output Dolby Digital
Sound	Melody : PCM
	Sound Select : Main
Channel	
Setup	
Guide	
	⬍ Move ⏎ Enter ▥ Return

• PCM (Pulse Coded Modulation): this is for use with 2 channel AVamplifiers that do not support Dolby digital.

## DOLBY DIGITAL

▥▥ DOLBY
D I G I T A L **Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.**
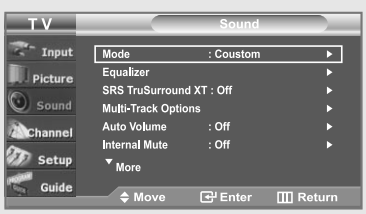
Setting the On/Off Melody

A melody sound can be set to come on when the TV is powered On or Off.

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

Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER**⏎ button.

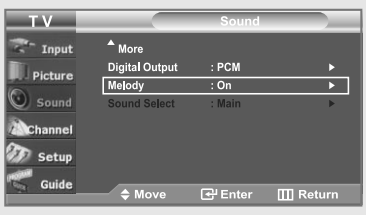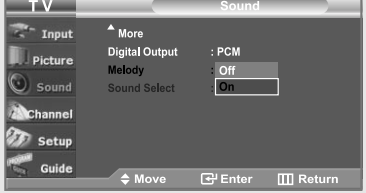| TV	Sound
Input	Mode : Coustom ▶
Picture	Equalizer ▶
Sound	SRS TruSurround XT : Off ▶
Channel	Multi-Track Options ▶
Setup	Auto Volume : Off ▶
Guide	Internal Mute : Off ▶
	▼ More
◆ Move	⏎ Enter ▥ Return

2
Press the **UP/DOWN** ▲▼ buttons to select "Melody", then press the **ENTER**⏎ button. Press the **UP/DOWN** ▲▼ buttons to select "On" or "Off", then press the **ENTER**⏎ button.

Press the **EXIT** button to exit.

TV	Sound
Input	▲ More
Picture	Digital Output : PCM ▶
Sound	Melody : On ▶
Channel	Sound Select : Main ▶
Setup	
Guide	
◆ Move	⏎ Enter ▥ Return

TV	Sound
Input	▲ More
Picture	Digital Output : PCM
Sound	Melody : Off
Channel	Sound Select On
Setup	
Guide	
◆ Move	⏎ Enter ▥ Return

Selecting the Antenna

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Channel", then press the **ENTER** button.

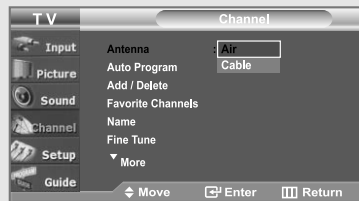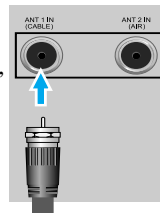| TV		Channel	
Input	Antenna	: Air	▶
Picture	Auto Program		▶
Sound	Add / Delete		▶
Channel	Favorite Channels		▶
Setup	Name		▶
Guide	Fine Tune		▶
	▼ More		
	♦ Move	Enter	Return

2

Press the **ENTER** button to select "Antenna".
Press the **UP/DOWN** ▲▼ buttons to select "Air" or "Cable", then press the **ENTER** button.

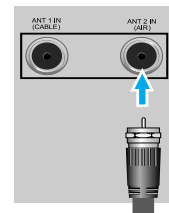Press the **EXIT** button to exit.

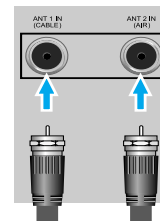| TV		Channel	
Input	Antenna	Air	
Picture	Auto Program	Cable	
Sound	Add / Delete		
Channel	Favorite Channels		
Setup	Name		
Guide	Fine Tune		
	▼ More		
	♦ Move	Enter	Return

ANTENNA GUIDE MODE

Note
• If the antenna is connected to ANT 1 IN (CABLE), select "CABLE" and if it is connected to ANT 2 IN (AIR), select "AIR".

ANT 1 IN (CABLE)   ANT 2 IN (AIR)   or   ANT 1 IN (CABLE)   ANT 2 IN (AIR)

• If both ANT 1 IN (CABLE) and ANT 2 IN (AIR) are connected, select the antenna input you want. If the antenna input is not selected properly, noise may appear on the screen.

ANT 1 IN (CABLE)   ANT 2 IN (AIR)

To Set-up Your Favorite Channels

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Channel", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "Favorite Channels", then press the **ENTER** button.

TV	Channel	
Input	Antenna : Air	▶
Picture	Auto Program	▶
Sound	Add / Delete	▶
Channel	Favorite Channels	▶
Setup	Name	▶
Guide	Fine Tune	▶
	▼ More	
	◆ Move ↵ Enter Ⅲ Return	

TV	Channel	
Input	Antenna : Air	▶
Picture	Auto Program	▶
Sound	Add / Delete	▶
Channel	Favorite Channels	▶
Setup	Name	▶
Guide	Fine Tune	▶
	▼ More	
	◆ Move ↵ Enter Ⅲ Return	

2

Press the **UP/DOWN** ▲▼ buttons to select your favorite channels to watch among the labeled channels.

Press the **UP/DOWN** ▲▼ buttons to select a channel as a favorite channel, then press the **ENTER** button.

Press the **ENTER** button again to deselect the selected channel.

Press the **EXIT** button to exit.

TV	Favorite Channels	
Input	Air 6	Select All
Picture	Air 7	Clear All
Sound	Air 9	
Channel	Air 11	
Setup	Air 13	
Guide	Air 14	
	Air 16	
	◇ Move ↵ Enter Ⅲ Return	

TV	Favorite Channels	
Input	Air 6 ✓	Select All
Picture	Air 7 ✓	Clear All
Sound	Air 9 ✓	
Channel	Air 11	
Setup	Air 13	
Guide	Air 14	
	Air 16	
	◇ Move ↵ Enter Ⅲ Return	

◀ Only memorized channels can be set as favorite channels.

◀ Select All : Press to select all channels.
Clear All : Press to clear all channels.

3

To select the favorite channels you have set up, press the **FAV.CH** button on the remote.
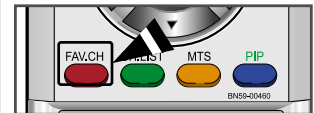
Labeling Channels

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Channel", then press the **ENTER** ⊕ button.

Press the **UP/DOWN** ▲▼ buttons to select "Name", then press the **ENTER** ⊕ button.

T V	Channel	
Input	Antenna : Air	▶
Picture	Auto Program	▶
Sound	Add / Delete	▶
	Favorite Channels	▶
Channel	Name	▶
Setup	Fine Tune	▶
Guide	▼ More	
	◆ Move ⊡ Enter ▥ Return	

T V	Channel	
Input	Antenna : Air	▶
Picture	Auto Program	▶
Sound	Add / Delete	▶
Channel	Favorite Channels	▶
	Name	▶
Setup	Fine Tune	▶
Guide	▼ More	
	◆ Move ⊡ Enter ▥ Return	

2

Press the **UP/DOWN** ▲▼ buttons to select the channel to be assigned to a new name, then press the **ENTER** ⊕ button.
Press the **UP/DOWN** ▲▼ buttons to select a letter, a number or a blank (Results in this sequence: A...Z, 0...9, +, -, •, /, blank). Press the **RIGHT** ▶ button to switch to the next field, which will be selected. Select a second letter or digit by pressing the **UP/DOWN** ▲▼ buttons, as above. Repeat the process to select the last three digits. When you have finished, press the **ENTER** ⊕ button to assign the new name.

To erase the assigned new name, select "Clear" by pressing the ◀ or ▶ button, then press the **ENTER** ⊕ button.

Press the **EXIT** button to exit.

T V	Name	
Input	Air 6	Clear
Picture	Air 7	Clear
Sound	Air 9	Clear
Channel	Air 11	Clear
Setup	Air 13	Clear
Guide	▼	
	♦ Move ⊡ Enter ▥ Return	

T V	Name	
Input	Air 6 A	Clear
Picture	Air 7	Clear
Sound	Air 9	Clear
Channel	Air 11	Clear
Setup	Air 13	Clear
Guide	▼	
	◆ Move ♦ Adjust ▥ Return	

• The names of digital broadcasting channels are automatically assigned and thus cannot be assigned by users.

• When you use cable card to watch cable broadcasting, it might take some time for a channel name to be displayed due to data-receiving time.

Viewing the Channel Lists

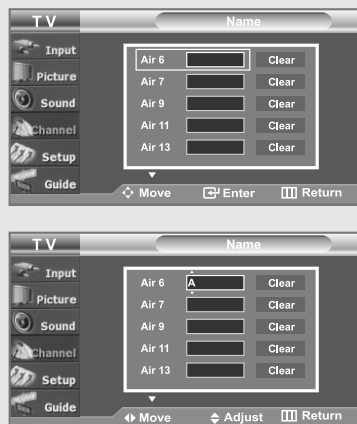You can display a list of all channels or your favorite channels.

1

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

Press the **UP/DOWN** buttons to select "Channel", then press the **ENTER** button.

TV		Channel
Input	Antenna	: Air ▶
Picture	Auto Program	▶
	Add / Delete	▶
Sound	Favorite Channels	▶
	Name	▶
Channel	Fine Tune	▶
Setup	▼ More	
Guide		
	♦ Move	↵ Enter □□ Return

2

Press the **UP/DOWN** buttons to select "Channel List", then press the **ENTER** button.
Press the **UP/DOWN** buttons to select "All" or "Favorite", then press the **ENTER** button.

TV		Channel
Input	▲ More	
Picture	Channel List	▶
	Signal Strength	▶
Sound	LNA	: On ▶
Channel		
Setup		
Guide		
	♦ Move	↵ Enter □□ Return

TV		Channel List
Input	All	▶
Picture	Edit	▶
	Favorite	▶
Sound		
Channel		
Setup		
Guide		
	♦ Move	↵ Enter □□ Return

3

Press the **UP/DOWN** buttons to select "Channel" and **ENTER** button.

To toggle between your favorite channels or all channels, use the yellow button on the remote control.

Channel List		
All ANALOG 3		2/4
▲ More		
3 ANALOG CH 3	11 ANALOG CH 11	104 104 COPY FREEL
4 ANALOG CH 4	12 ANALOG CH 12	105 105 COPY NEVER
5 ANALOG CH 5	13 ANALOG CH 13	106 106 COPY ONCE.
6 ANALOG CH 6	14 ANALOG CH 14	201 CAPTION TEST -
7 ANALOG CH 7	24 ANALOG CH 24	202 CAPTION TEST -
8 ANALOG CH 8	76 ANALOG CH 76	203 CAPTION TEST -
9 ANALOG CH 9	87 ANALOG CH 87	204 CAPTION TEST -
10 ANALOG CH 10	103 103 COPY FREEL	205 CAPTION TEST -
		▼ More
● Previous	● Next ● Favorite	● Exit
♦ Move	↵ Watch	□□ Return

FAV.CH   CH.LIST   MTS   PIP
BN59-00460

• Red button : Press to display the previous channel list page.
  Green button : Press to display the next channel list page.
  Yellow button : Press to toggle between your favorite channels or all channels.
  Blue or EXIT button : Press to exit.

Editing the Channel Lists

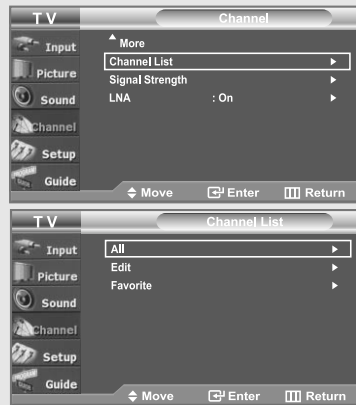You can edit channels to be added or deleted.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Channel", then press the **ENTER** button.

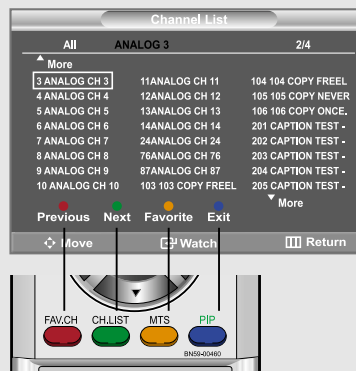|	Channel	
Antenna	: Air	▶
Auto Program		▶
Add / Delete		▶
Favorite Channels		▶
Name		▶
Fine Tune		▶
▼ More		

◆ Move　☒ Enter　▥ Return

2

Press the **UP/DOWN** ▲▼ buttons to select "Channel List", then press the **ENTER** button.
Press the **UP/DOWN** ▲▼ buttons to select "Edit", then press the **ENTER** button.

	Channel	
▲ More		
Channel List		▶
Signal Strength		▶
LNA	: On	▶

◆ Move　☒ Enter　▥ Return

	Channel List	
All		▶
Edit		▶
Favorite		▶

◆ Move　☒ Enter　▥ Return

3

Press the **UP/DOWN** ▲▼ buttons to select "Channel" and **ENTER** button.

Then, the channel can be deleted or added. If deleted, the channel number will be dimmed.

To make the deleted channels be back on the list, press the **ENTER** button.

Edit		
Add/Delete　ANALOG 3		2/4
▲ More		
3 ANALOG CH 3	11 ANALOG CH 11	104 104 COPY FREEL
4 ANALOG CH 4	12 ANALOG CH 12	105 105 COPY NEVER
5 ANALOG CH 5	13 ANALOG CH 13	106 106 COPY ONCE.
6 ANALOG CH 6	14 ANALOG CH 14	201 CAPTION TEST -
7 ANALOG CH 7	24 ANALOG CH 24	202 CAPTION TEST -
8 ANALOG CH 8	76 ANALOG CH 76	203 CAPTION TEST -
9 ANALOG CH 9	87 ANALOG CH 87	204 CAPTION TEST -
10 ANALOG CH 10	103 103 COPY FREEL	205 CAPTION TEST -
		▼ More

Previous　Next　Add All　Delete All

◆ Move　☒ Delete　▥ Return

• Enter button : Press to add or delete the channel.
• Red button : Press to display the previous channel list page.
• Green button : Press to display the next channel list page.
• Yellow button : Press to add all channels deleted.
• Blue button : Press to delete all channels memorized.
• EXIT button : Press to exit.

Fine Tuning Analog Channels

Use fine tuning to manually adjust a particular channel for optimal reception.
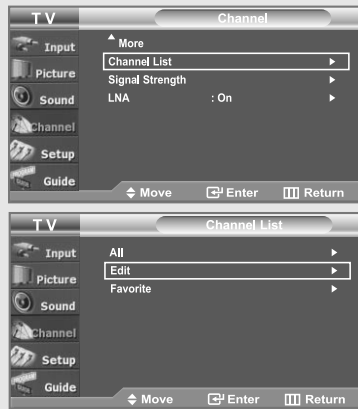
1
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select "Channel", then press the **ENTER** button.

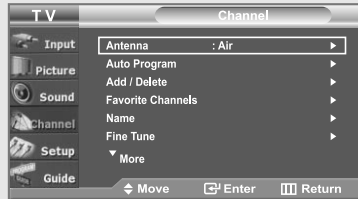| TV	Channel
Input	Antenna : Air ►
Picture	Auto Program ►
Sound	Add / Delete ►
Channel	Favorite Channels ►
Setup	Name ►
Guide	Fine Tune ►
	▼ More

‡ Move   Enter   Return

2
Press the **UP/DOWN** ▲▼ buttons to select "Fine Tune", then press the **ENTER** button.

TV	Channel
Input	Antenna : Air ►
Picture	Auto Program ►
Sound	Add / Delete ►
Channel	Favorite Channels ►
Setup	Name ►
Guide	Fine Tune ►
	▼ More

‡ Move   Enter   Return

Fine Tune
Air 24
0
Reset
Adjust   Save   Return

◄ • Only analog TV channels can be fine tuned.
• "*" will appear next to the name of fine-tuned channels.

3
Press the **LEFT/RIGHT** ◄► buttons to adjust the fine tuning.

Fine Tune
Air 24
10
Reset
Adjust   Save   Return

◄ If you do not store the fine-tuned channel in memory, adjustments are not saved.

4
To store the fine tuning setting in the TV's memory, press the **ENTER** button.
To reset the fine tuning setting, press the **DOWN** ▼ button to select "Reset", then press the **ENTER** button.

Press the **EXIT** button to exit.

Fine Tune
Air 24   Fine Tuned
10
Reset
Adjust   Save   Return

Fine Tune
Air 24
10
Reset
‡ Move   Enter   Return
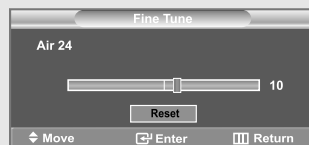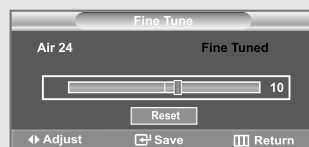
◄ Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.

Air 24*

Checking the Digital-Signal Strength

Unlike analog channels, which can vary in reception quality from "snowy" to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analog channels, you cannot fine tune a digital channel. You can, however, adjust your antenna to improve the reception of available digital channels.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Channel", then press the **ENTER** button.

TV	Channel	
Input	Antenna : Air	►
Picture	Auto Program	►
Sound	Add / Delete	►
Channel	Favorite Channels	►
Setup	Name	►
Guide	Fine Tune	►
	▼ More	
	◆ Move Enter Return	

2

Press the **UP/DOWN** ▲▼ buttons to select "Signal Strength", then press the **ENTER** button.

If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength.

Continue to adjust the antenna until you find the best position with the strongest signal.

Press the **EXIT** button to exit.

TV	Channel	
Input	▲ More	
Picture	Channel List	►
Sound	Signal Strength	►
Channel	LNA : On	►
Setup		
Guide		
	◆ Move Enter Return	

TV	Signal Strngth
Input	
Picture	
Sound	
Channel	
Setup	
Guide	Return

LNA (Low Noise Amplifier)

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

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Channel", then press the **ENTER** button.

T V		Channel	
Input	Antenna	: Air	▶
Picture	Auto Program		▶
	Add / Delete		▶
Sound	Favorite Channels		▶
Channel	Name		▶
Setup	Fine Tune		▶
Guide	▼ More		
	‡ Move	Enter	Return

2

Press the **UP/DOWN** ▲▼ buttons to select "LNA", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "On", then press the **ENTER** button.
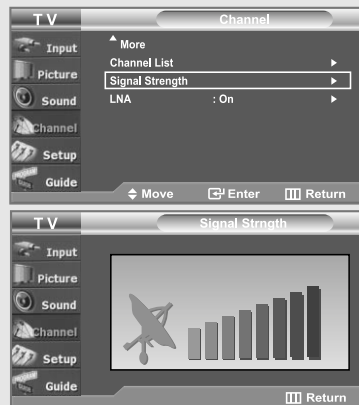
Press the **EXIT** button to exit.

T V		Channel	
Input	▲ More		
Picture	Channel List		▶
Sound	Signal Strength		▶
Channel	LNA	: On	▶
Setup			
Guide			
	‡ Move	Enter	Return

T V		Channel	
Input	▲ More		
Picture	Channel List		
Sound	Signal Strength		
Channel	LNA	:	Off
Setup			On
Guide			
	‡ Move	Enter	Return
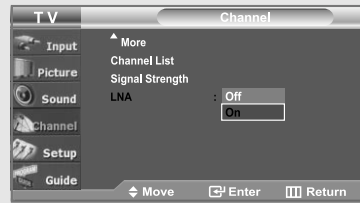
◀ • LNA functions only when antenna is set to AIR and the settings will be stored separately in each channel. (See "Selecting the antenna." on page 61.)
• For 26" and 32", LNA functions may operate when antenna is set to Cable.

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1 First, click on "**Control Panel**" on the Windows start menu.
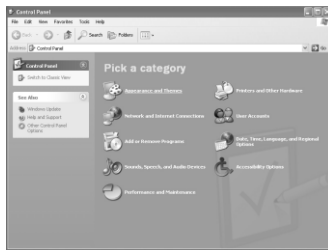
2 When the control panel window appears, click on "**Appearance and Themes**" and a display dialog-box will appear.
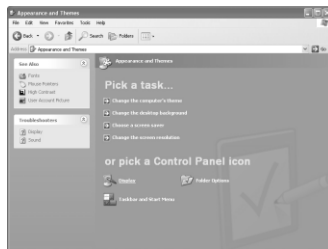
3 When the control panel window appears, click on "**Display**" and a display dialog-box will appear.

4 Navigate to the "**Settings**" tab on the display dialog-box.

The correct size setting (resolution)
Optimum: 1360 x 768 pixels

If a vertical-frequency option exists on your display settings dialog box, the correct value is "**60**" or "**60 Hz**". Otherwise, just click "**OK**" and exit the dialog box.

∗ See "Display Modes" on page 123.

How to Auto Adjust

Use the Auto Adjust function to have the TV set automatically adjust the video signals the monitor receives. The function also automatically fine-tunes the settings and adjusts the frequency values and positions.

Note: This function does not work in DVI-Digital mode.

Some OSD can be different depending on the model.

◀ Change to the PC mode first.

1-1 (LN-R269D / LN-R329D / LN32M51BD)

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "PC", then press the **ENTER** button.

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
Setup	Menu Transparency : Medium ▶
Guide	▼ More
	♦ Move 🞔 Enter 🞕 Return

TV	Setup
Input	▲ More
Picture	Blue Screen : Off ▶
Sound	Color Weakness : Off ▶
	PC ▶
Channel	Function Help : Off ▶
Setup	
Guide	♦ Move 🞔 Enter 🞕 Return

1-2 (LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "PC", then press the **ENTER** button.

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
Setup	Menu Transparency : Medium ▶
Guide	▼ More
	♦ Move 🞔 Enter 🞕 Return

TV	Setup
Input	▲ More
Picture	Blue Screen : Off ▶
Sound	Color Weakness : Off ▶
	PC ▶
Channel	Function Help : Off ▶
Setup	CableCARD™ ▶
Guide	CableCARD Setup ▶
	♦ Move 🞔 Enter 🞕 Return

2

Press the **UP/DOWN** ▲▼ buttons to select "Auto Adjustment", then press the **ENTER** button.

TV	PC
Input	Image Lock ▶
Picture	Position ▶
Sound	Auto Adjustment
	Reset
Channel	
Setup	
Guide	♦ Move 🞔 Enter 🞕 Return

Auto Adjustment in progress. Please wait.

PC DISPLAY

Adjusting the Screen Quality

The purpose of the picture quality adjustment is to remove or reduce picture noise.
If the noise is not removed by fine tuning alone, then do the frequency adjustments to
the utmost and fine tune again. After the noise has been reduced, re-adjust the picture
so that it is aligned on the center of screen.

Some OSD can be different depending on the model.

◀ Change to the PC mode first.

1-1 **(LN-R269D / LN-R329D / LN32M51BD)**

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

Press the **UP/DOWN** ▲▼
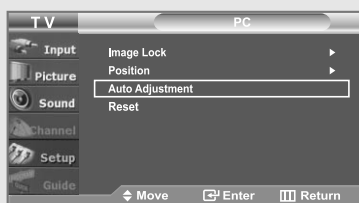buttons to select "Setup",
then press the **ENTER**⊕
button.

Press the **UP/DOWN** ▲▼
buttons to select "PC", then
press the **ENTER**⊕ button.

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
	V-Chip	▶
Channel	Caption	▶
Setup	Menu Transparency : Medium	▶
Guide	▼ More	
	♦ Move ⊞ Enter �III Return	

TV	Setup	
Input	▲ More	
Picture	Blue Screen : Off	▶
Sound	Color Weakness : Off	▶
	PC	▶
Channel	Function Help : Off	▶
Setup		
Guide	♦ Move ⊞ Enter III Return	

1-2 **(LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)**

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

Press the **UP/DOWN** ▲▼
buttons to select "Setup",
then press the **ENTER**⊕
button.

Press the **UP/DOWN** ▲▼
buttons to select "PC", then
press the **ENTER**⊕ button.

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
	V-Chip	▶
Channel	Caption	▶
Setup	Menu Transparency : Medium	▶
Guide	▼ More	
	♦ Move ⊞ Enter III Return	

TV	Setup	
Input	▲ More	
Picture	Blue Screen : Off	▶
Sound	Color Weakness : Off	▶
	PC	▶
Channel	Function Help : Off	▶
Setup	CableCARD™	▶
	CableCARD Setup	▶
Guide	♦ Move ⊞ Enter III Return	

2

Press the **ENTER**⊕
button to select
"Image Lock".

TV	PC	
Input	Image Lock	▶
Picture	Position	▶
Sound	Auto Adjustment	
	Reset	
Channel		
Setup		
Guide	♦ Move ⊞ Enter III Return	

3

Press the **UP/DOWN** ▲▼ buttons to select "Coarse" or "Fine", then press the **ENTER**⊡ button.

Press the **LEFT/RIGHT**◀▶ buttons to adjust the screen quality. Vertical stripes may appear or the picture may be blurry.

Press the **ENTER**⊡ button.

Press the **EXIT** button to exit.

TV	Image Lock
Input	
Picture	Coarse 50
Sound	Fine 50
Channel	
Setup	
Guide	

♦ Move   ⊡ Enter   ▥ Return

Coarse   50

<Adjusting Coarse>

Fine   50

<Adjusting Fine>

PC DISPLAY

Changing the Screen Position

Some OSD can be different depending on the model.

1-1 (LN-R269D / LN-R329D / LN32M51BD)

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "PC", then press the **ENTER** button.
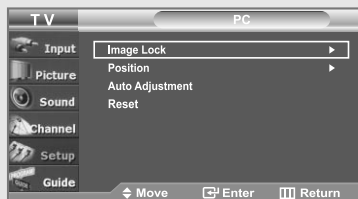
◄ Change to the PC mode first.

1-2 (LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "PC", then press the **ENTER** button.

2

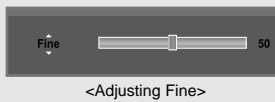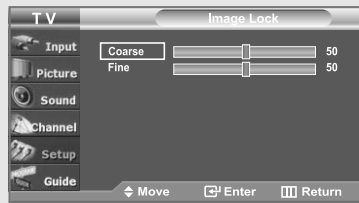Press the **UP/DOWN** ▲▼ buttons to select "Position", then press the **ENTER** button.

3

Press the **UP/DOWN** ▲▼ buttons to adjust the V-Position.

Press the **LEFT/RIGHT** ◀▶ buttons to adjust the H-Position.

Press the **ENTER** ⊞ button.

Press the **EXIT** button to exit.

TV	Position
Input	
Picture	
Sound	
Channel	
Setup	
Guide	
◆ Move	⊞ Enter ▥ Return

TV	Position
Input	
Picture	
Sound	
Channel	
Setup	
Guide	
◆ Move	⊞ Enter ▥ Return

Initializing the Screen Position or Color Settings
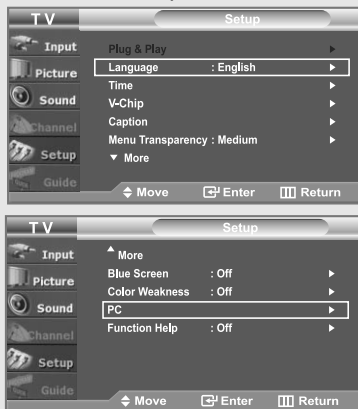
Some OSD can be different depending on the model.

1-1 (LN-R269D / LN-R329D / LN32M51BD)

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** ⊕ button.

Press the **UP/DOWN** ▲▼ buttons to select "PC", then press the **ENTER** ⊕ button.

◀ Change to the PC mode first.

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
Channel	V-Chip ▶
Setup	Caption ▶
Guide	Menu Transparency : Medium ▶
	▼ More
	⬍ Move ⊕ Enter ▥ Return

TV	Setup
Input	▲ More
Picture	Blue Screen : Off ▶
Sound	Color Weakness : Off ▶
Channel	PC ▶
Setup	Function Help : Off ▶
Guide	
	⬍ Move ⊕ Enter ▥ Return

1-2 (LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** ⊕ button.

Press the **UP/DOWN** ▲▼ buttons to select "PC", then press the **ENTER** ⊕ button.

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
Channel	V-Chip ▶
Setup	Caption ▶
Guide	Menu Transparency : Medium ▶
	▼ More
	⬍ Move ⊕ Enter ▥ Return

TV	Setup
Input	▲ More
Picture	Blue Screen : Off ▶
Sound	Color Weakness : Off ▶
Channel	PC ▶
Setup	Function Help : Off ▶
Guide	CableCARD™ ▶
	CableCARD Setup ▶
	⬍ Move ⊕ Enter ▥ Return

2

Press the **UP/DOWN** ▲▼ buttons to select "Image Reset", then press the **ENTER** ⊕ button.

Press the **EXIT** button to exit.

TV	PC
Input	Image Lock ▶
Picture	Position ▶
Sound	Auto Adjustment
Channel	Image Reset
Setup	
Guide	⬍ Move ⊕ Enter ▥ Return
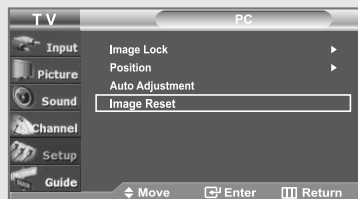
Image Reset is completed.

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.)

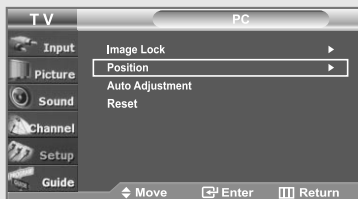## Option 1: Setting the Clock Manually

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER**⊕ button.

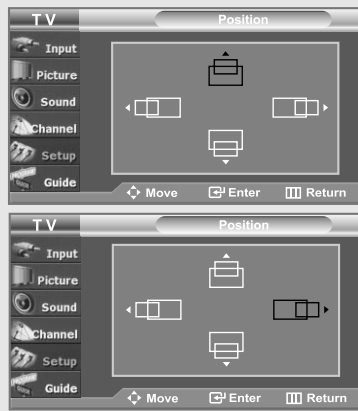Press the **UP/DOWN** ▲▼ buttons to select "Time", then press the **ENTER**⊕ button.

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
Channel	V-Chip	▶
Setup	Caption	▶
Guide	Menu Transparency : Medium	▶
	▼ More	
	↕ Move ⊕ Enter ▥ Return	

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
Channel	V-Chip	▶
Setup	Caption	▶
Guide	Menu Transparency : Medium	▶
	▼ More	
	↕ Move ⊕ Enter ▥ Return	

2

Press the **ENTER**⊕ button to select "Clock".

TV	Time	
Input	--/ --/ ---/ -- : ---	
Picture		
Sound	Clock	▶
Channel	Sleep Timer : Off	▶
Setup	On Timer : Off	▶
Guide	Off Timer : Off	▶
	↕ Move ⊕ Enter ▥ Return	

3

Press the **ENTER**⊕ button to select "Clock Mode".

Press the **UP/DOWN** ▲▼ buttons to select "Manual", then press the **ENTER**⊕ button.

TV	Clock	
Input	Clock Mode : Auto	▶
Picture	Clock Set	▶
Sound	Time Zone	▶
Channel	DST : No	▶
Setup		
Guide		
	↕ Move ⊕ Enter ▥ Return	

TV	Clock	
Input	Clock Mode : Manual	
Picture	Clock Set Auto	
Sound	Time Zone	
Channel	DST : No	
Setup		
Guide		
	↕ Move ⊕ Enter ▥ Return	

4
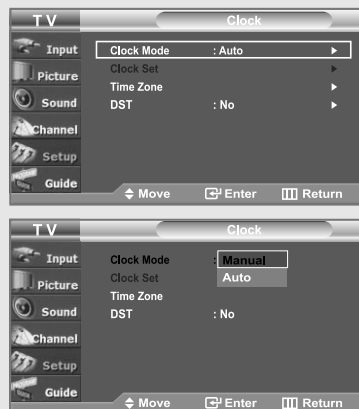
Press the **UP/DOWN** ▲▼ buttons to select "Clock Set", then press the **ENTER** ⊞ button.

T V	Clock	
Input	Clock Mode : Manual	▶
Picture	Clock Set	▶
Sound	Time Zone	▶
Channel	DST : No	▶
Setup		
Guide		

♦ Move   ⊞ Enter   Ⅲ Return

5

Press the **LEFT/RIGHT** ◀▶ buttons to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm". Set the date and time you want by pressing the **UP/DOWN** ▲▼ buttons, then press the **ENTER** ⊞ button.

Press the **EXIT** button to exit.

T V	Clock Set	
Input	Set current date and time.	
Picture	Month Day Year	
Sound	-- -- —	
Channel	Hour Minute am/pm	
Setup	-- -- --	
Guide		

◀▶ Move   ♦ Adjust   Ⅲ Return

T V	Clock Set	
Input	Set current date and time.	
Picture	Month Day Year	
Sound	1 1 2005	
Channel	Hour Minute am/pm	
Setup	12 00 am	
Guide		

◀▶ Move   ♦ Adjust   Ⅲ Return
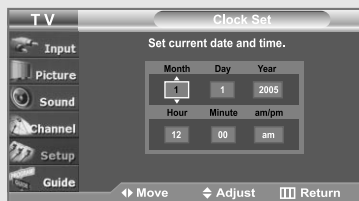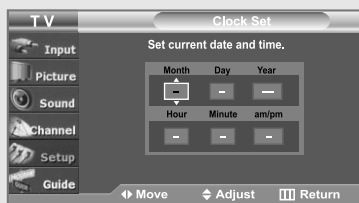
◀ • The current time will appear every time you press the INFO button.

 • You can set the month, day, year, hour, and minute directly by pressing the number buttons on the remote control.

Option 2: Setting the Clock Automatically

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "Time", then press the **ENTER** button.

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
Channel	V-Chip	▶
Setup	Caption	▶
Guide	Menu Transparency : Medium	▶
	▼ More	
	♦ Move 🖅 Enter 🎚 Return	

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
Channel	V-Chip	▶
Setup	Caption	▶
Guide	Menu Transparency : Medium	▶
	▼ More	
	♦ Move 🖅 Enter 🎚 Return	

2

Press the **ENTER** button to select "Clock".

TV	Time	
Input	--/ --/ ---/ -- : --	
Picture		
Sound	Clock	▶
Channel	Sleep Timer : Off	▶
Setup	On Timer : Off	▶
Guide	Off Timer : Off	▶
	♦ Move 🖅 Enter 🎚 Return	

3

Press the **ENTER** button to select "Clock Mode".

Press the **UP/DOWN** ▲▼ buttons to select "Auto", then press the **ENTER** button.

TV	Clock	
Input	Clock Mode : Manual	▶
Picture	Clock Set	▶
Sound	Time Zone	▶
Channel	DST : No	▶
Setup		
Guide		
	♦ Move 🖅 Enter 🎚 Return	

TV	Clock	
Input	Clock Mode : Manual	
Picture	Clock Set Auto	
Sound	Time Zone	
Channel	DST : No	
Setup		
Guide		
	♦ Move 🖅 Enter 🎚 Return	

4
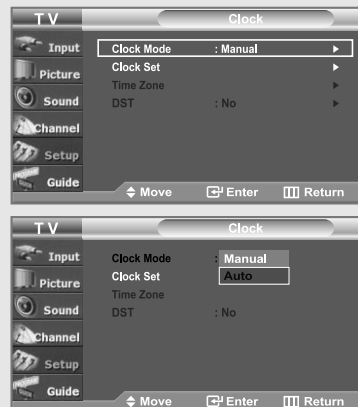
Press the **UP/DOWN** ▲▼ buttons to select "Time Zone", then press the **ENTER** ⊞ button.
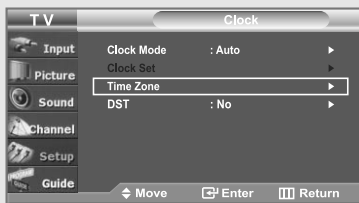
T V	Clock
Input	Clock Mode : Auto ►
Picture	Clock Set ►
Sound	Time Zone ►
Channel	DST : No ►
Setup	
Guide	
	⬍ Move ⊞ Enter ▥ Return

5

Press the **UP/DOWN** ▲▼ buttons to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States), then press the **ENTER** ⊞ button.

T V	Time Zone
Input	Select the time zone in which you live.
Picture	Atlantic
Sound	Eastern
	Central
Channel	Mountain
Setup	Pacific
	Alaska
Guide	Hawaii
	⬍ Move ⊞ Enter ▥ Return

6
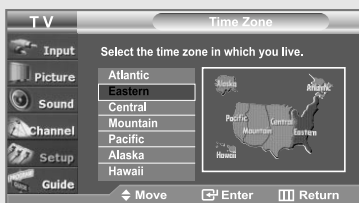
Press the **UP/DOWN** ▲▼ buttons to select "DST" (Daylight Saving Time), then press the **ENTER** ⊞ button.
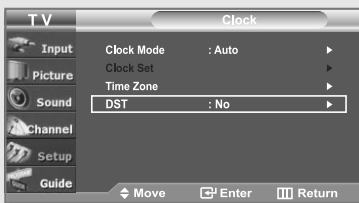
Press the **UP/DOWN** ▲▼ buttons to select "Yes" or "No", then press the **ENTER** ⊞ button.

Press the **EXIT** button to exit.

T V	Clock
Input	Clock Mode : Auto ►
Picture	Clock Set ►
Sound	Time Zone ►
Channel	DST : No ►
Setup	
Guide	
	⬍ Move ⊞ Enter ▥ Return

T V	Clock
Input	Clock Mode : Auto
Picture	Clock Set
Sound	Time Zone
Channel	DST : Yes
Setup	No
Guide	
	⬍ Move ⊞ Enter ▥ Return

◀ Depending on the broadcast station and signal, the auto time may not be set correctly. If this occurs, set the time manually.

◀ Antenna or cable must be connected in order to set the time automatically.

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.
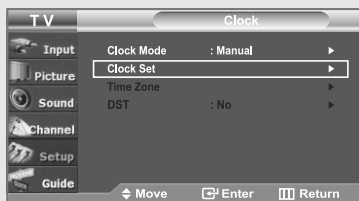
Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "Time", then press the **ENTER** button.

◀ Quick way to access the sleep timer setting: Simply press the "SLEEP" button under the cover of the remote control.

TV	Setup	
Input	Plug & Play	►
Picture	Language : English	►
Sound	Time	►
	V-Chip	►
Channel	Caption	►
Setup	Menu Transparency : Medium	►
Guide	▼ More	
	♦ Move ← Enter Ⅲ Return	

TV	Setup	
Input	Plug & Play	►
Picture	Language : English	►
Sound	Time	►
	V-Chip	►
Channel	Caption	►
Setup	Menu Transparency : Medium	►
Guide	▼ More	
	♦ Move ← Enter Ⅲ Return	

2

Press the **UP/DOWN** ▲▼ buttons to select "Sleep Timer", then press the **ENTER** button.

TV	Time	
Input	1/ 1/ 2005/ 12 : 00 am	
Picture		
Sound	Clock	►
	Sleep Timer : Off	►
Channel	On Timer : Off	►
Setup	Off Timer : Off	►
Guide	♦ Move ← Enter Ⅲ Return	

3

Press the **UP/DOWN** ▲▼ buttons to adjust "Minute".

TV	Sleep Timer	
Input	Set sleep timer.	
Picture		
Sound	Minute Activation	
Channel	--- No	
Setup		
Guide	◀▶ Move ♦ Adjust Ⅲ Return	

4

Press the **RIGHT** ▶ button to select "Activation".

Press the **UP/DOWN** ▲▼ buttons to select "Yes", then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Sleep Timer	
Input	Set sleep timer.	
Picture		
Sound	Minute Activation	
Channel	30 Yes	
Setup		
Guide	◀▶ Move ♦ Adjust Ⅲ Return	

Setting the On/Off Timer

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "Time", then press the **ENTER** button.

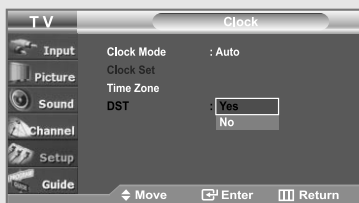|	Setup	
Plug & Play		▶
Language	: English	▶
Time		▶
V-Chip		▶
Caption		▶
Menu Transparency	: Medium	▶
▼ More		

♦ Move   Enter   Return

	Setup	
Plug & Play		▶
Language	: English	▶
Time		▶
V-Chip		▶
Caption		▶
Menu Transparency	: Medium	▶
▼ More		

♦ Move   Enter   Return

2

Press the **UP/DOWN** ▲▼ buttons to select "On Timer", then press the **ENTER** button.

	Time	
1/ 1/ 2005/ 12 : 00 am		
Clock		▶
Sleep Timer	: Off	▶
On Timer	: Off	▶
Off Timer	: Off	▶

♦ Move   Enter   Return

3

Press the **UP/DOWN** ▲▼ buttons to adjust "Hour", then press the **RIGHT** ▶ button to move to the next step.

Set other items using the same method as above.

	On Timer	
Set on timer.		
Hour	Minute	am/pm	Antenna
12	00	am	Air
Channel	Volume	Activation
3	10	No

◀▶ Move   ♦ Adjust   Return

◀ When finished, press the MENU button to return.

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

• You can set the hour, minute, channel, and volume directly by pressing the number buttons on the remote control.

4

Press the **UP/DOWN** ▲▼ buttons to select "Off Timer", then press the **ENTER** button.

	Time	
1/ 1/ 2005/ 12 : 00 am		
Clock		▶
Sleep Timer	: Off	▶
On Timer	: Off	▶
Off Timer	: Off	▶

♦ Move   Enter   Return

5

Press the **UP/DOWN** ▲▼ buttons to adjust "Hour", then press the **RIGHT** ▶ button to move to the next step.
Set other items using the same method as above.
Press the **EXIT** button to exit.

	Off Timer	
Set off timer.		
Hour	Minute	am/pm	Activation
12	00	am	No

◀▶ Move   ♦ Adjust   Return

Chapter 9

FUNCTION DESCRIPTION

Selecting a Menu Language

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

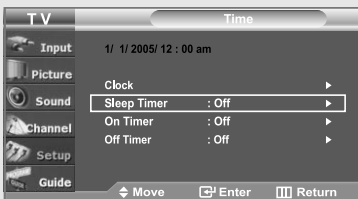Press the **UP/DOWN** ▲▼ buttons to select "Language", then press the **ENTER** button.

2

Press the **UP/DOWN** ▲▼ buttons to select the appropriate language: "English", "Spanish" or "French".
Press the **ENTER** button.

Press the **EXIT** button to exit.

Selecting the Film Mode

On: Automatically senses and processes film signals from all sources and adjusts
the picture for optimum quality.

Off: Switches off the Film mode.

1

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

Press the **UP/DOWN** ▲▼
buttons to select "Picture",
then press the **ENTER**
button.

TV	Picture	
Input	Mode	: Dynamic	▶
Picture	Size	: 16:9	▶
Sound	Digital NR	: On	▶
	DNIe Demo	: Off	▶
Channel	My Color Control		▶
Setup	Dynamic Contrast	: On	▶
Guide	▼ More		
	◆ Move	⏎ Enter	⫶⫶⫶ Return

2
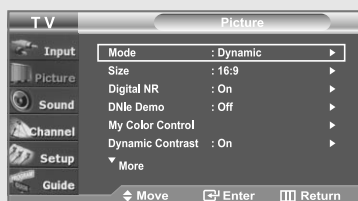
Press the
UP/DOWN ▲▼ buttons
to select "Film Mode",
then press the **ENTER**
button.

TV	Picture	
Input	▲ More	
Picture	Brightness Sensor : Off	▶
Sound	Film Mode : Off	▶
	PIP	▶
Channel		
Setup		
Guide		
	◆ Move	⏎ Enter	⫶⫶⫶ Return

3

Press the **UP/DOWN** ▲▼
buttons to select "On", then
press the **ENTER** button.

Press the **EXIT** button
to exit.

TV	Picture	
Input	▲ More	
Picture	Brightness Sensor : Off	
Sound	Film Mode	Off
	PIP	On
Channel		
Setup		
Guide		
	◆ Move	⏎ Enter	⫶⫶⫶ Return

Note

• Film mode is supported in TV, VIDEO, S-VIDEO, and
COMPONENT 480i

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** Ⅲ button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER** button.

TV	Picture		
Input	Mode	: Dynamic	▶
Picture	Size	: 16:9	▶
Sound	Digital NR	: On	▶
	DNIe Demo	: Off	▶
Channel	My Color Control		▶
Setup	Dynamic Contrast	: On	▶
Guide	▼ More		
	◆ Move	⊡ Enter	Ⅲ Return

2
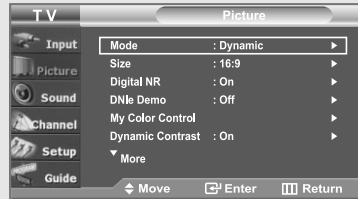
Press the **UP/DOWN** ▲▼ buttons to select "Digital NR", then press the **ENTER** button.

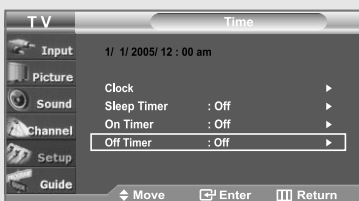| TV	Picture		
Input	Mode	: Dynamic	▶
Picture	Size	: 16:9	▶
Sound	Digital NR	: On	▶
	DNIe Demo	: Off	▶
Channel	My Color Control		▶
Setup	Dynamic Contrast	: On	▶
Guide	▼ More		
	◆ Move	⊡ Enter	Ⅲ Return

3

Press the **UP/DOWN** ▲▼ buttons to select "On", then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Picture		
Input	Mode	: Dynamic	
Picture	Size	: 16:9	
Sound	Digital NR	: Off	
	DNIe Demo	: On	
Channel	My Color Control		
Setup	Dynamic Contrast	: On	
Guide	▼ More		
	◆ Move	⊡ Enter	Ⅲ Return

Using the Color Weakness Enhancement Option

This option adjusts the Red, Blue or Green color to enhance the image according to the user's particular color weakness.

Some OSD can be different depending on the model.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
Setup	Menu Transparency : Medium ▶
Guide	▼ More
	♦ Move ⊞ Enter Ⅲ Return

2-1 (LN-R269D / LN-R329D / LN32M51BD)

Press the **UP/DOWN** ▲▼ buttons to select "Color Weakness", then press the **ENTER** button.

TV	Setup
Input	▲ More
	Blue Screen : Off ▶
Picture	Color Weakness : Off ▶
Sound	PC ▶
Channel	Function Help : Off ▶
Setup	
Guide	♦ Move ⊞ Enter Ⅲ Return

TV	Color Weakness
Input	Color Weakness : Off ▶
Picture	Red 0
Sound	Green 0
	Blue 0
Channel	
Setup	
Guide	⊞ Enter Ⅲ Return

2-2 (LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

Press the **UP/DOWN** ▲▼ buttons to select "Color Weakness", then press the **ENTER** button.

TV	Setup
Input	▲ More
	Blue Screen : Off ▶
Picture	Color Weakness : Off ▶
Sound	PC ▶
Channel	Function Help : Off ▶
Setup	CableCARD™ ▶
Guide	CableCARD™ Setup ▶
	♦ Move ⊞ Enter Ⅲ Return

TV	Color Weakness
Input	Color Weakness : Off ▶
Picture	Red 0
Sound	Green 0
	Blue 0
Channel	
Setup	
Guide	⊞ Enter Ⅲ Return

3

Press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "On", then press the **ENTER** button.

You will also see the items "Red", "Green" and "Blue".

TV	Color Weakness
Input	Color Weakness : Off
Picture	On
Sound	Red
Channel	Green 0
Setup	Blue 0
Guide	◆ Move Enter Return

TV	Color Weakness
Input	Color Weakness : On ►
Picture	
Sound	Red 0
Channel	Green 0
Setup	Blue 0
Guide	◆ Move Enter Return

4
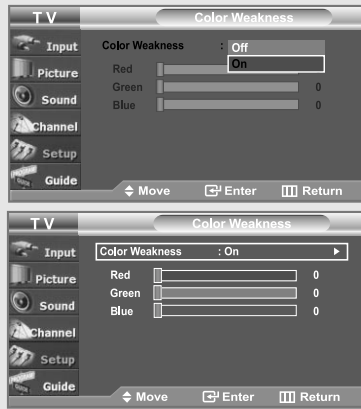
Press the **UP/DOWN** ▲▼ buttons to select the item you wish to change, then press the **ENTER** button.

Press the **LEFT/RIGHT** ◄► buttons to change the value of the item, then press the **ENTER** button.

Press the **EXIT** button to exit.

Color Weakness	
Red	0
◆ Move ◄► Adjust Return	

Viewing Closed Captions (On-Screen Text Messages) - Analog

The Analog Caption function operates in either analog RF channel mode or external signal mode.
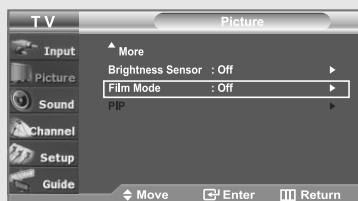
1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

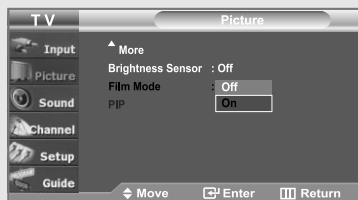| T V		Setup
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
	V-Chip	▶
Channel	Caption	▶
Setup	Menu Transparency : Medium	▶
Guide	▼ More	
	◆ Move ⊡ Enter ▥ Return	

2

Press the **UP/DOWN** ▲▼ buttons to select "Caption", then press the **ENTER** button.

T V		Setup
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
	V-Chip	▶
Channel	Caption	▶
Setup	Menu Transparency : Medium	▶
Guide	▼ More	
	◆ Move ⊡ Enter ▥ Return	

3

Press the **ENTER** button to select "Caption".

Press the **UP/DOWN** ▲▼ buttons to select "On", then press the **ENTER** button.

T V		Caption
Input	Caption : Off	▶
Picture	Caption Mode : Default	
Sound	Caption Options	▶
Channel		
Setup		
Guide	⊡ Enter ▥ Return	

T V		Caption
Input	Caption : Off	
Picture	Caption Mode On	
Sound	Caption Options	
Channel		
Setup		
Guide	◆ Move ⊡ Enter ▥ Return	

4

Press the **UP/DOWN** ▲▼ buttons to select "Caption Mode", then press the **ENTER**⊕ button.

Press the **UP/DOWN** ▲▼ buttons to select submenu (Default, CC1~CC4 or Text1~Text4) you want, the press the **ENTER**⊕ button.

Press the **EXIT** button to exit.

TV	Caption	
Input	Caption : On ▶	
Picture	Caption Mode : Default ▶	
Sound	Caption Options ▶	
Channel		
Setup		
Guide	♦ Move ⊕ Enter ▥ Return	

TV	Caption	
Input	Caption : **Default**	
Picture	Caption Mode CC1	
Sound	Caption Options CC2	
	CC3	
Channel	CC4	
	Text 1	
Setup	Text 2	
	Text 3	
Guide	Text 4	
	♦ Move ⊕ Enter ▥ Return	
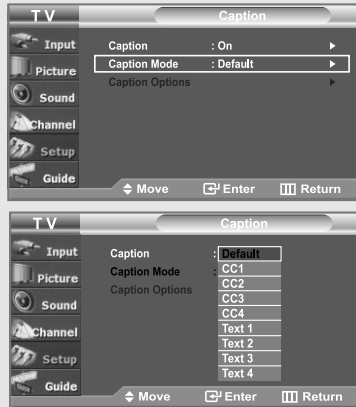
• The default is "CC1".

CC1 : The Primary Synchronous Caption Service.
These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.

CC2 : The Special Non-Synchronous Use Captions.
This channel carries data that is intended to augment information carried in the program.

CC3 : Secondary Synchronous Caption Service.
Alternate program-related caption data, typically second language captions.

CC4 : Special Non-Synchronous Use Captions.
Similar to CC2.

Text1: First Text Service. This may be various non-program related data.

Text2: Second Text Service. Additional data, usually not program related.

Text3/Text4: Third and Fourth Text Services. These data channels should be used only if Text1 and Text2 are not sufficient.

Note

• The Caption feature doesn't work in COMPONENT(480p, 720p, 1080i), HDMI modes.
• The availability of captions depends on the program being broadcast.

Viewing Closed Captions (On-Screen Text Messages) - Digital

The Digital Captions function operates on digital channels.
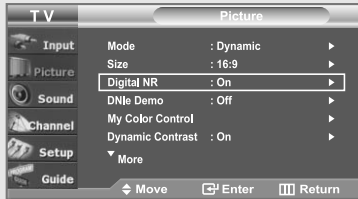
1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

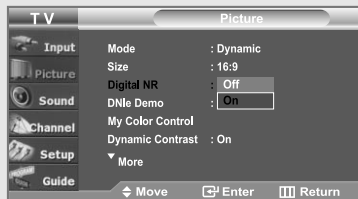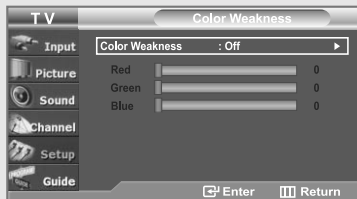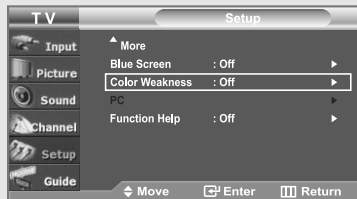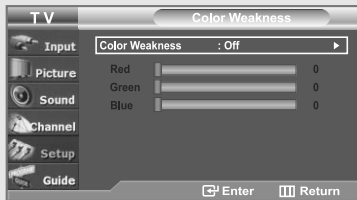| TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
	V-Chip	▶
Channel	Caption	▶
Setup	Menu Transparency : Medium	▶
Guide	▼ More	
	‡ Move ↵ Enter Ⅲ Return	

2

Press the **UP/DOWN** ▲▼ buttons to select "Caption", then press the **ENTER** button.

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
	V-Chip	▶
Channel	Caption	▶
Setup	Menu Transparency : Medium	▶
Guide	▼ More	
	‡ Move ↵ Enter Ⅲ Return	

3

Press the **ENTER** button to select "Caption".

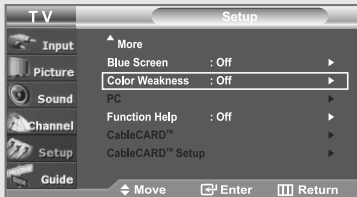Press the **UP/DOWN** ▲▼ buttons to select "On", then press the **ENTER** button.

TV	Caption	
Input	Caption : Off	▶
Picture	Caption Mode : Default	▶
Sound	Caption Options	▶
Channel		
Setup		
Guide	↵ Enter Ⅲ Return	

TV	Caption	
Input	Caption : Off	
Picture	Caption Mode On	
Sound	Caption Options	
Channel		
Setup		
Guide	‡ Move ↵ Enter Ⅲ Return	

4

Press the **UP/DOWN** ▲▼ buttons to select "Caption Mode", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select submenu (Default, Service1~Service6, CC1~CC4, or Text1~Text4) you want, the press the **ENTER** button.

TV		Caption	
Input	Caption	: On	▶
Picture	Caption Mode	: Default	▶
Sound	Caption Options		▶
Channel			
Setup			
Guide	⬍ Move	Enter	Return

TV		Caption	
Input	Caption	**Default**	
Picture	Caption Mode	Service1	
Sound	Caption Options	Service2	
Channel		Service3	
		Service4	
Setup		Service5	
		Service6	
Guide		CC1	
	⬍ Move	Enter	Return

◀ • "Caption Options" are available only when "Service1~Service6" can be selected in "Caption Mode".

• SERVICE1~6 in digital caption mode may not be available depending on the broadcast.

5

Press the **UP/DOWN** ▲▼ buttons to select "Caption Options", then press the **ENTER** button.
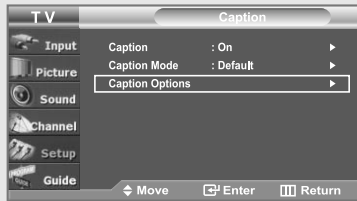
TV		Caption	
Input	Caption	: On	▶
Picture	Caption Mode	: Default	▶
Sound	Caption Options		▶
Channel			
Setup			
Guide	⬍ Move	Enter	Return

◀ • The availability of captions depends on the program being broadcast.

• "Default" means to follow the standard set by the broadcaster.

6

Press the **UP/DOWN** ▲▼ buttons to select "Size", then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select the desired Caption option, then press the **ENTER** button.

Press the Up or Down button to select the desired sub-menu options(see options below), then press **ENTER** .
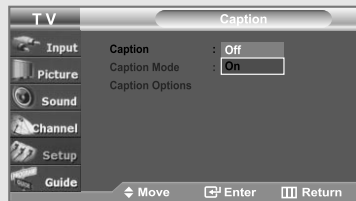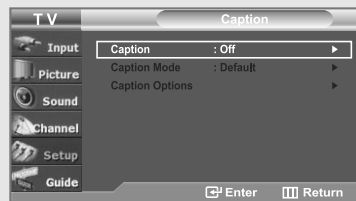
Press the **EXIT** button to exit.

TV		Caption Options	
Input	Size	: Default	▶
Picture	Font Style	: Default	▶
Sound	Foreground Color	: Default	▶
	Background Color	: Default	▶
Channel	Foreground Opacity	: Default	▶
Setup	Background Opacity	: Default	▶
Guide	Return to Default		
	⬍ Move	Enter	Return

• **Size**

  This option consists of "Default", "Small", "Standard", and "Large". The default is "Standard".

• **Font Style**

  This option consists of "Default", "Style0 ~ Style 7". You can change the font you want.
  The default is "Style 0".

• **Foreground Color**

  This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow",
  "Magenta", and "Cyan". You can change the color of the letter. The default is "White".

• **Background Color**

  This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow",
  "Magenta", and "Cyan". You can change the background color of the caption.
  The default is "Black".

• **Foreground Opacity**

  This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing".
  You can change the opacity of the letter.

• **Background Opacity**

  This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing".
  You can change the background opacity of the caption.

• **Return to Default**

  This option sets each of "Size", "Font Style", "Foreground Color", "Bakcground color",
  "Foreground Opacity", and "Background Opacity" to its default.

Alternate method:

Press the CAPTION button under the remote's
cover repeatedly to select "On" or "Off".

Caption : On
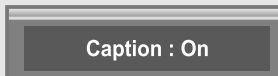
Menu Transparency Level

Adjusts the transparency of the menu screen.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** ⊞ button.

2

Press the **UP/DOWN** ▲▼ buttons to select "Menu Transparency", then press the **ENTER** ⊞ button.
Press the **UP/DOWN** ▲▼ buttons to select level, then press the **ENTER** ⊞ button.

Press the **EXIT** button to exit.

Some OSD can be different depending on the model.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

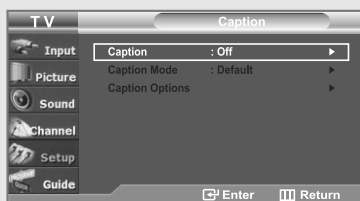| TV		Setup	
Input	Plug & Play		▶
Picture	Language	: English	▶
Sound	Time		▶
	V-Chip		▶
Channel	Caption		▶
Setup	Menu Transparency	: Medium	▶
Guide	▼ More		
	◆ Move	⊡ Enter	▥ Return

2-1 (LN-R269D / LN-R329D / LN32M51BD)

Press the **UP/DOWN** ▲▼ buttons to select "Function Help", then press the **ENTER** button.

TV		Setup	
Input	▲ More		
Picture	Blue Screen	: Off	▶
Sound	Color Weakness	: Off	▶
	PC		▶
Channel	Function Help	: Off	▶
Setup			
Guide			
	◆ Move	⊡ Enter	▥ Return

2-2 (LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

Press the **UP/DOWN** ▲▼ buttons to select "Function Help", then press the **ENTER** button.

TV		Setup	
Input	▲ More		
Picture	Blue Screen	: Off	▶
Sound	Color Weakness	: Off	▶
	PC		▶
Channel	Function Help	: Off	▶
Setup	CableCARD™		▶
Guide	CableCARD Setup		▶
	◆ Move	⊡ Enter	▥ Return

3-1 (LN-R269D / LN-R329D / LN32M51BD)

Press the **UP/DOWN** ▲▼
buttons to select "On", then
press the **ENTER** ⊞ button.

Press the **EXIT** button to
exit

T V		Setup
Input	▲ More	
Picture	Blue Screen	: Off
	Color Weakness	: Off
Sound	PC	
Channel	Function Help	: Off
Setup		On
Guide		
	◆ Move ⊞ Enter ▥ Return	

(?) Switches the Function Help on.

3-2 (LN-R409D / LN40M51BD / LN-R469D / LN46M51BD)

Press the **UP/DOWN** ▲▼
buttons to select "On", then
press the **ENTER** ⊞ button.

Press the **EXIT** button to
exit

T V		Setup
Input	▲ More	
Picture	Blue Screen	: Off
	Color Weakness	: Off
Sound	PC	
Channel	Function Help	: Off
Setup	CableCARD™	On
Guide	CableCARD Setup	
	◆ Move ⊞ Enter ▥ Return	

(?) Switches the Function Help on.

Using the V-Chip

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

Notes : • When the V-chip feature is activated, the PIP features do not function.

Setting Up Your Personal ID Number (PIN)

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

2

Press the **UP/DOWN** ▲▼ buttons to select "V-Chip", then press the **ENTER** button.
The message "Enter PIN" will appear. Enter your 4 digit PIN number.

• The default PIN number of a new TV set is "0-0-0-0".

3

The "V-Chip" screen will appear. Press the **UP/DOWN** ▲▼ buttons to select "Change PIN", then press the **ENTER** button.

The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them. As soon as the 4 digits are entered, the "Confirm 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.

◀ If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0 : Power Off.
→ Mute → 8 → 2 → 4 → Power On.

How to Enable/Disable the V-Chip

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

TV	Setup
Input	Plug & Play ►
Picture	Language : English ►
Sound	Time ►
Channel	V-Chip ►
Setup	Caption ►
Guide	Menu Transparency : Medium ►
	▼ More
	◆ Move Enter Return

2

Press the **UP/DOWN** ▲▼ buttons to select "V-Chip", then press the **ENTER** button.
The message "Enter PIN" will appear. Enter your 4 digit PIN number.

TV	Setup
Input	Plug & Play ►
Picture	Language : English ►
Sound	Time ►
Channel	V-Chip ►
Setup	Caption ►
Guide	Menu Transparency : Medium ►
	▼ More
	◆ Move Enter Return

TV	V-Chip
Input	
Picture	Enter PIN
Sound	* * * *
Channel	
Setup	
Guide	
	0~9 Enter PIN Return

3

The "V-Chip" screen will appear. To enable the V-Chip feature, press the **ENTER** button so that the "V-Chip Lock" field is "On". (Pressing the **UP/DOWN** ▲▼ buttons will alternate between "On" and "Off".) Press the **ENTER** button.

Press the **EXIT** button to exit.

TV	V-Chip
Input	V-Chip Lock : Off ►
Picture	TV Parental Guidelines ►
Sound	MPAA Rating ►
Channel	Canadian English ►
Setup	Canadian French ►
Guide	Change PIN ►
	◆ Move Enter Return

TV	V-Chip
Input	V-Chip Lock Off
Picture	TV Parental Guidelines On
Sound	MPAA Rating
Channel	Canadian English
Setup	Canadian French
Guide	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 guidelines or the MPAA rating.

1

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

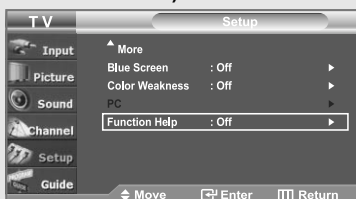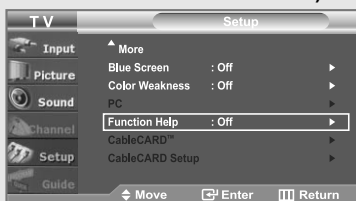Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

	Setup	
Plug & Play		▶
Language	: English	▶
Time		▶
V-Chip		▶
Caption		▶
Menu Transparency : Medium		▶
▼ More		

2

Press the **UP/DOWN** ▲▼ buttons to select "V-Chip", then press the **ENTER** button.
The message "Enter PIN" will appear. Enter your 4 digit PIN number.

	Setup	
Plug & Play		▶
Language	: English	▶
Time		▶
V-Chip		▶
Caption		▶
Menu Transparency : Medium		▶
▼ More		

Enter PIN

* * * *

0~9 Enter PIN   Return

3

The "V-Chip" screen will appear. Press the **UP/DOWN** ▲▼ buttons to select "TV Parental Guidelines", then press the **ENTER** button.

V-Chip		
V-Chip Lock	: On	▶
TV Parental Guidelines		▶
MPAA Rating		▶
Canadian English		▶
Canadian French		▶
Change PIN		▶

4

The "TV Parental Guidelines" screen will appear.
Press the **UP/DOWN** ▲▼ buttons to select one of the six aged based categories:

TV Parental Guidelines

ALL FV V S L D   Allow All
TV-Y   Block All
TV-Y7
TV-G
TV-PG
TV-14
TV-MA
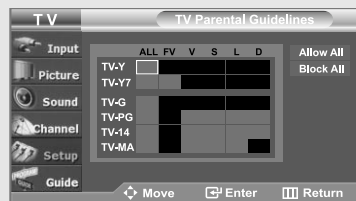
TV-Y	Young children
TV-Y7	Children 7 and over
TV-G	General audience
TV-PG	Parental guidance
TV-14	Viewers 14 and over
TV-MA	Mature audience

5

At this point, one of the TV-Ratings is selected. Press the **ENTER**⊞ button. Depending on your existing setup, a symbol will 🔒 be selected.
(Blank = Unblocked, 🔒 = Blocked)
While "🔒" is selected, press the **ENTER**⊞ button to block or unblock the category.

To select a different TV-Rating, press the **UP/DOWN** ▲▼ buttons and then repeat the process.

TV	TV Parental Guidelines	
Input	ALL FV V S L D	Allow All
Picture	TV-Y 🔒	Block All
Sound	TV-Y7 🔒 🔒	
Channel	TV-G	
Setup	TV-PG	
Guide	TV-14	
	TV-MA	
	✛ Move ⊞ Enter ▥ Return	
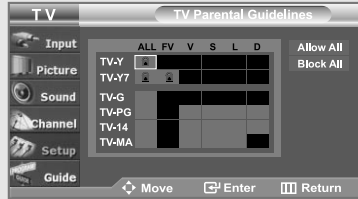
◀ Allow all: Press to unlock all TV ratings.

Block all: Press to lock all TV ratings.

Note 1: The TV-Y, TV-Y7, TV-G, 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: Sexually Suggestive 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-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-MA). The sub-rat ings (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-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA (See Step 4, on previous page), and press the **RIGHT** ▶ button. A symbol " 🔒 " will be displayed for each sub-rating.
While " 🔒 " is selected, press the **ENTER** ⊞ button to go to a sub rating. Press **ENTER** ⊞ to block the sub rating. To select a different TV-Rating, press the **UP/DOWN** ▲▼ buttons and then repeat the process.
Note: The V-chip will automatically block certain categories that are "More restrictive" .For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

7

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

Note
• These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else). The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

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. 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.

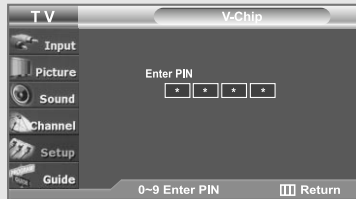Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

2

Press the **UP/DOWN** ▲▼ buttons to select "V-Chip", then press the **ENTER** button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.

3

The "V-Chip" screen will appear. Press the **UP/DOWN** ▲▼ buttons to select "MPAA Rating", then press the **ENTER** button.

4

The "MPAA Rating" screen will appear. Repeatedly press the **UP/DOWN** ▲▼ buttons to select a particular MPAA category. Pressing the **UP/DOWN** ▲▼ buttons will cycle through the MPAA categories:

◀ Allow all: Press to unlock all TV ratings.

Block all: Press to lock all TV ratings.

	TV	MPAA Rating
Input		Block
Picture	G	Allow All
Sound	PG	Block All
Channel	PG-13	
Setup	R	
Guide	NC-17	
	X	
	NR	
	◇Move	⏎ Enter ▥ Return

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

While a particular category is selected, press the **ENTER**⏎ button to activate it. A selected symbol " 🔒 " will be displayed. Press the **ENTER** ⏎ button to block or unblock the category.

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

How to Set up Restrictions Using the 'Canadian English'

1

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

Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER** button.

T V		Setup	
Input	Plug & Play		▶
Picture	Language	: English	▶
Sound	Time		▶
	V-Chip		▶
Channel	Caption		▶
Setup	Menu Transparency : Medium		▶
Guide	▼ More		
	◆ Move	↵ Enter	▥ Return

2

Press the **UP/DOWN ▲▼** buttons to select "V-Chip", then press the **ENTER** button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.

T V		Setup	
Input	Plug & Play		▶
Picture	Language	: English	▶
Sound	Time		▶
	V-Chip		▶
Channel	Caption		▶
Setup	Menu Transparency : Medium		▶
Guide	▼ More		
	◆ Move	↵ Enter	▥ Return

T V	V-Chip
Input	
Picture	
Sound	Enter PIN
	[*] [*] [*] [*]
Channel	
Setup	
Guide	
	0~9 Enter PIN ▥ Return

3

Press the **UP/DOWN ▲▼** buttons to select "Canadian English", then press the **ENTER** button.

T V	V-Chip	
Input	V-Chip Lock : On	▶
Picture	TV Parental Guidelines	▶
	MPAA Rating	▶
Sound	Canadian English	▶
Channel	Canadian French	▶
Setup	Change PIN	▶
Guide		
	◆ Move ↵ Enter	▥ Return

4

Press the **UP/DOWN ▲▼** buttons to select a appropriate restriction. Press the **ENTER** button to activate the restriction selected. The " 🔒 " symbol is indicated.
Press the **EXIT** button.to exit.

T V	Canadian English	
Input	Block	
Picture	E	Allow All
	C	Block All
Sound	C8+	
Channel	G	
	PG	
Setup	14+	
Guide	18+	
	◆ Move ↵ Enter	▥ Return

◀ Allow All: Press to unlock all TV ratings.
Block All: Press to lock all TV ratings.

Canadian English

- 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 acceptable for children 8 years and over to watch on their own.
- G   : General programming, suitable for all audiences.
- PG : Parental Guidance.
- 14+ : Programming contains themes or content which may not be suitable for viewers under the age of 14.
- 18+ : Adult programming.

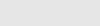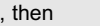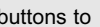## How to Set up Restrictions Using the 'Canadian French'

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

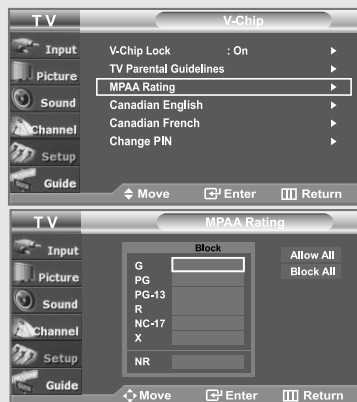| TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
	V-Chip	▶
Channel	Caption	▶
Setup	Menu Transparency : Medium	▶
Guide	▼ More	
	♦ Move Enter Return	

2

Press the **UP/DOWN** ▲▼ buttons to select "V-Chip", then press the **ENTER** button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.
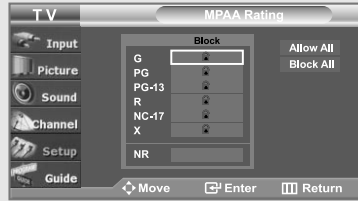
TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
	V-Chip	▶
Channel	Caption	▶
Setup	Menu Transparency : Medium	▶
Guide	▼ More	
	♦ Move Enter Return	

TV	V-Chip
Input	
Picture	
Sound	Enter PIN
	[*] [*] [*] [*]
Channel	
Setup	
Guide	
	0~9 Enter PIN Return

3

Press the **UP/DOWN** ▲▼ buttons to select "Canadian French", then press the **ENTER** button.

TV	V-Chip	
Input	V-Chip Lock : On	▶
Picture	TV Parental Guidelines	▶
Sound	MPAA Rating	▶
	Canadian English	▶
Channel	Canadian French	▶
Setup	Change PIN	▶
Guide		
	♦ Move Enter Return	

4

Press the **UP/DOWN** ▲▼ buttons to select a appropriate restriction.
Press the **ENTER** button to activate the restriction selected. The " 🔒 " symbol is indicated.
Press the **EXIT** button.to exit.

TV	Canadian French	
Input	Block	Allow All
Picture	E	Block All
Sound	G	
	8 ans+	
Channel	13 ans+	
Setup	16 ans+	
Guide	18 ans+	
	♦ Move Enter Return	
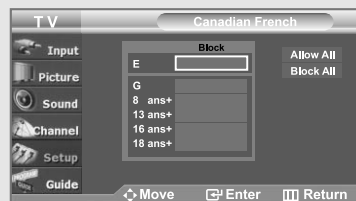
◀ Allow All: Press to unlock all TV ratings.
Block All: Press to lock all TV ratings.
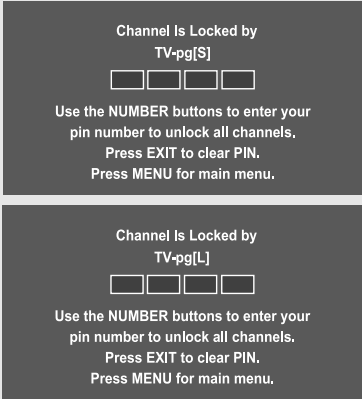
Canadian French

- 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.

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

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

1

Enter your PIN number.

Channel Is Locked by
TV-pg[S]

☐☐☐☐☐

Use the NUMBER buttons to enter your
pin number to unlock all channels.
Press EXIT to clear PIN.
Press MENU for main menu.

Channel Is Locked by
TV-pg[L]

☐☐☐☐☐

Use the NUMBER buttons to enter your
pin number to unlock all channels.
Press EXIT to clear PIN.
Press MENU for main menu.

To resume normal viewing, tune to a different channel using CH ⊙ or CH ⊙ button. 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":

1 Press the **MENU** ▥ button. Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** ↵ button.

**2** Press the **UP/DOWN** ▲▼ buttons to select "V-Chip", then press the **ENTER** ↵ button.

3 Enter your PIN number, press the **ENTER** ↵ button, and press the **UP/DOWN** ▲▼ buttons to temporarily disable the V-Chip Lock.

Electronic Program Guide

Your TV has an "Electronic Program Guide" to help you navigate through all the possible viewing options. The EPG supplies information, such as program lists, start and end times of all available channels.
In addition, detailed information about the program is often available in the EPG.
(The availability and the amount of program details will vary depending on the broadcaster.)
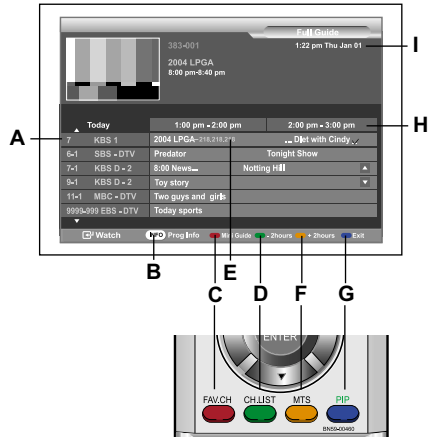
Viewing the Electronic Program Guide

A   Displays which channel is currently selected to show program information in the Channel Guide.

B   Press to view detailed information for the selected digital program.

C   Switches to the mini program guide. The mini guide shows the titles of the available programs of one channel. Press the Red button on the remote control. The set default guide is Mini Guide.

D   Scrolls backwards quickly (2 hours). Press the Green button on the remote control.

E   Displays titles and other details about upcoming programs of particular channels. Highlight the program and press the INFO button to see additional and detailed information. (The availability of additional details depends on the broadcaster.) Use the ▲/▼ buttons to search information about another channel.

F   Scrolls forward quickly (2 hours). Press the Yellow button on the remote control and repeatedly press the ENTER button so that the appropriate time is displayed.

G   Exits from the Program Guide and returns to normal viewing mode. Press the Blue button on the remote control.

H   Displays the program times (arranged in 1 hour time blocks).

I   Displays the current time and date.

Note
• You can use the GUIDE button on the remote control to display the Electronic Program Guide.
  The EPG begins its list with the channel that is currently active.
  The EPG will only work when you are receiving digital channels.

Using the Electronic Program Guide

1

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

Press the **UP/DOWN** ▲▼
buttons to select "Guide",
then press the **ENTER** ↵
button.

TV	Guide	
Input	Mini Guide	▶
Picture	Full Guide	▶
Sound	Remind List	▶
Channel	Default Guide : Mini Guide	▶
Setup		
Guide		
	◆ Move ↵ Enter ▥ Return	

2
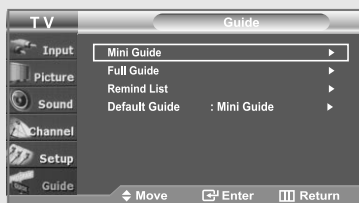
Press the **UP/DOWN** ▲▼
buttons to select "Default
Guide", then press the
ENTER ↵ button.

TV	Guide	
Input	Mini Guide	▶
Picture	Full Guide	▶
Sound	Remind List	▶
Channel	Default Guide : Mini Guide	▶
Setup		
Guide		
	◆ Move ↵ Enter ▥ Return	

3

Press the **UP/DOWN** ▲▼
buttons to select "Mini
Guide" or "Full Guide", then
press the **ENTER** ↵ button.
• Mini Guide : Displays the
  guide for one channel.
• Full Guide : Displays the
  guide for all channels.

Press the **EXIT** button
to exit.

TV	Guide	
Input	Mini Guide	
Picture	Full Guide	
Sound	Remind List	
Channel	Default Guide : Mini Guide	
Setup	Full Guide	
Guide		
	◆ Move ↵ Enter ▥ Return	

Viewing Information about a Single Channel

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Guide", then press the **ENTER** button.

TV	Guide
Input	Mini Guide ▶
Picture	Full Guide ▶
Sound	Remind List ▶
Channel	Default Guide : Mini Guide ▶
Setup	
Guide	
	◆ Move ⏎ Enter ▥ Return

2
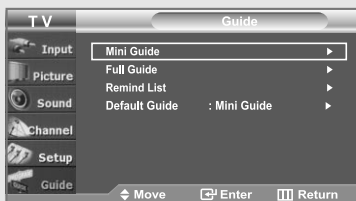
Press the **ENTER** button to select "Mini Guide".

Press the **UP/DOWN** ▲▼ buttons to view information about one channel by time.

You can switch between Full Guide mode and Mini Guide mode by pressing the Red button repeatedly.

Select the program you want by pressing the **UP/DOWN** ▲▼ buttons and press the INFO button on the remote control.

Mini Guide	
3	
5:00 pm	Program 1
7:30 pm	Program 2
8:00 pm	Program 3
9:30 pm	Program 4 ✓
10:00 pm	Program 5
11:30 pm	Program 6
1:04 pm Thu Jan 01	
⏎ Watch	INFO Prog Info
Full Guide	Exit

• ENTER button : Press to watch the current program or to add the program to remind list.
• Red button : Press to switch to the program guide for all channels. Press again to switch to the program information for the selected channel.
• Blue button : Press to exit.
• INFO button : Press to view detailed information for the selected digital program.

Press the **EXIT** button to exit.

Note
• You can also view information about a single channel by pressing the GUIDE button on the remote control. (The EPG should be pre-set in Mini Guide mode.)
• Press the INFO button on the remote control to view the program information for the current channel.

Viewing Information about Channels

Displays the program time and content for all channels.
This function is available only when the program is digital.

1

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

Press the **UP/DOWN** ▲▼
buttons to select "Guide",
then press the **ENTER**
button.

2
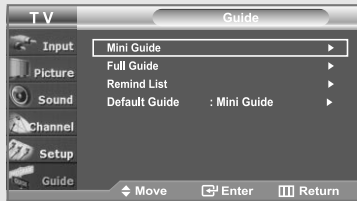
Press the
UP/DOWN ▲▼ buttons
to select "Full Guide", then
press the **ENTER** button.

3

Press the Green button to
activate "-2 Hours" and
the Yellow button to activate
"+2 Hours".
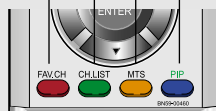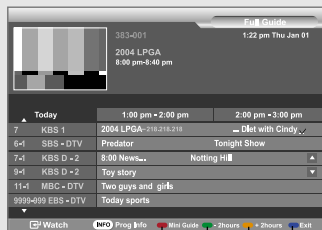
• INFO button : Displays detailed information for the selected digital
  program.
• ▲▼ ◄► button : Displays program information for each channel,
  based on the time. Select your desired program
  using the **UP/DOWN/LEFT/RIGHT** ▲▼ ◄►
  buttons, and then press the INFO button to view
  the program information for the selected program.
• Red button : Each press switches between program information for
  one channel and all channels.
• Green button : Press to view the program information from two
  hours ago.
• Yellow button : Press to view the program information for the next
  two hours.
• Blue button : Press to exit.
• ENTER button : Press to watch the current program or to add the
  program to remind list.

4

You may now:

• Jump to a channel directly : Use the **UP/DOWN** ▲▼ buttons to highlight the program in the **RIGHT** ▶ column and press the enter button.
• Obtain additional program details : Highlight the title of a program using the ▲, ▼, ◀, or ▶ buttons and press the INFO button.
• Exit from the Program Guide and return to normal viewing mode : Press the Blue button or the EXIT button.

Note
• The current time displayed on the program information is subject to the time information sent from the broadcasting station, so it may differ from the actual time.
• Press the GUIDE button on the remote control to view the program information for all channels. However, this function is available only when the default program guide setting is set to "Full Guide".

Remind List

Viewing the Remind List

If you have made a scheduled viewing list of programs you would like to see, the channel will be automatically switched to the scheduled program at the scheduled time even if you are watching another program.
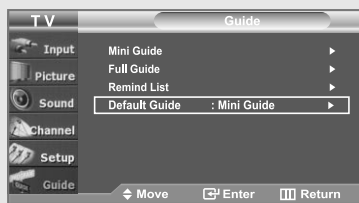
1

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

Press the **UP/DOWN** ▲▼ buttons to select "Guide", then press the **ENTER** button.

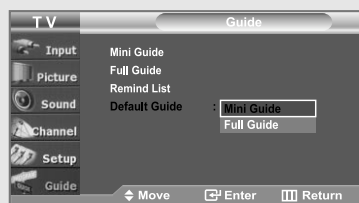| TV	Guide	
Input	Mini Guide	►
Picture	Full Guide	►
Sound	Remind List	►
Channel	Default Guide : Mini Guide	►
Setup		
Guide		
‡ Move ⊞ Enter ⊞ Return		

2

Press the **ENTER** buttons to select "Mini Guide".

Press the **UP/DOWN** ▲▼ buttons to select programs you would like to see, then press the enter button. The symbol "✔" will be displayed.

Each press of the **ENTER** button will switch between "Reminded" and "Clear".

Press the **EXIT** button to exit.

Mini Guide

3

5:00 pm	Program 1
7:30 pm	Program 2
8:00 pm	Program 3
9:30 pm	Program 4	⊘ ··· Remind List
10:00 pm	Program 5
11:30 pm	Program 6

1:04 pm Thu Jan 01

⊞ Watch   INFO Prog Info
● Full Guide   ● Exit

Full Guide

383-001   1:22 pm Thu Jan 01
2004 LPGA
8:00 pm-8:40 pm

		1:00 pm • 2:00 pm	2:00 pm • 3:00 pm
▲ Today			
7	KBS 1	2004 LPGA–216.218.218	•• Diet with Cind ⊘
6-1	SBS • DTV	Predator	Tonight Show
7-1	KBS D • 2	8:00 News▬	Notting Hi▉
9-1	KBS D • 2	Toy story	
11-1	MBC • DTV	Two guys and girls	
9999-999	EBS • DTV	Today sports	
▼			

⊞ Watch   INFO Prog Info   ● Mini Guide   ● -2hours   ● + 2hours   ● Exit

Note
• Up to 8 programs can be scheduled.

To View the Remind List

1

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

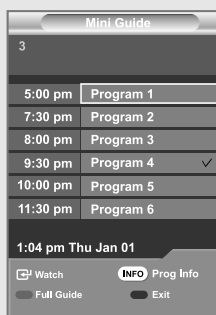Press the **UP/DOWN** ▲▼ buttons to select "Guide", then press the **ENTER** button.

T V	Guide
Input	Mini Guide ▶
Picture	Full Guide ▶
Sound	Remind List ▶
Channel	Default Guide : Mini Guide ▶
Setup	
Guide	↕ Move ⏎ Enter ▥ Return

2

Press the **UP/DOWN** ▲▼ buttons to select "Remind List", then press the **ENTER** button.

T V	Guide
Input	Mini Guide ▶
Picture	Full Guide ▶
Sound	Remind List ▶
Channel	Default Guide : Mini Guide ▶
Setup	
Guide	↕ Move ⏎ Enter ▥ Return

T V	Remind List
Input	TUE 12.14 1:57am-2:05am ✓ Cancel All
Picture	11-1 MBC DTV
Sound	TUE 12.14 2:05am-2:35am ✓
Channel	10-1 EBS DTV
Setup	TUE 12.14 3:57am-5:05am ✓
Guide	9-1 KBS DTV
	↔ Move ⏎ Enter ▥ Return
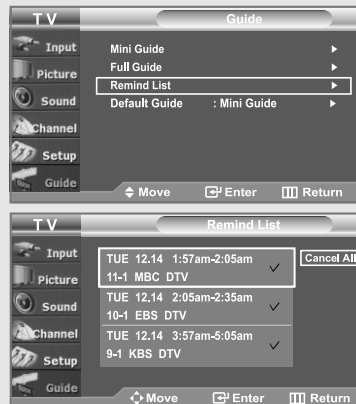
To Remove the Scheduled Programs

1

Press the **UP/DOWN** ▲▼ buttons to select a program to be removed, then press the **ENTER** button.

To cancel the channels added, press the **ENTER** button again.

To remove all programs, press the **LEFT/RIGHT** ◀▶ buttons to select "Cancel All", then press the **ENTER** button.

Press the **EXIT** button to exit.

T V	Remind List
Input	TUE 12.14 1:57am-2:05am ✓ Cancel All
Picture	11-1 MBC DTV
Sound	TUE 12.14 2:05am-2:35am
Channel	10-1 EBS DTV
Setup	TUE 12.14 3:57am-5:05am ✓
Guide	9-1 KBS DTV
	↔ Move ⏎ Enter ▥ Return

T V	Remind List
Input	TUE 12.14 1:57am-2:05am Cancel All
Picture	11-1 MBC DTV
Sound	TUE 12.14 2:05am-2:35am
Channel	10-1 EBS DTV
Setup	TUE 12.14 3:57am-5:05am
Guide	9-1 KBS DTV
	↔ Move ⏎ Enter ▥ Return
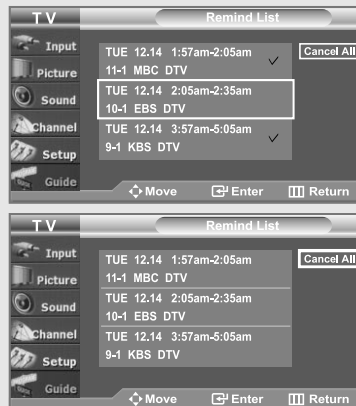
Using the CableCARD (Sold separately) (LN-R409D, LN40M51BD, LN-R469D, LN46M51BD)

This menu works with a CableCARD provided by a local cable service provider. Prior to accessing this menu, a CableCARD should be connected to the rear panel of the TV. For detailed connection instructions refer to the "Connecting CableCARD" section of this manual.

Displaying CableCARD related information

Accessing information on Status, Pairing, Network Setup of the CableCARD provided by the service provider in CableCARD menu.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER**⏎ button.

| T V	Setup
Input	Plug & Play ►
Picture	Language : English ►
	Time ►
Sound	V-Chip ►
	Caption ►
Channel	Menu Transparency : Medium ►
Setup	▼ More
Guide	
	◆ Move ⏎ Enter ▥ Return

2

Press the **UP/DOWN** ▲▼ buttons to select "CableCARD™", then press the **ENTER**⏎ button.

Press the **EXIT** button to exit.

T V	Setup
Input	▲ More
Picture	Blue Screen : Off ►
	Color Weakness : Off ►
Sound	PC ►
	Function Help : Off ►
Channel	CableCARD™ ►
Setup	CableCARD Setup ►
Guide	
	◆ Move ⏎ Enter ▥ Return
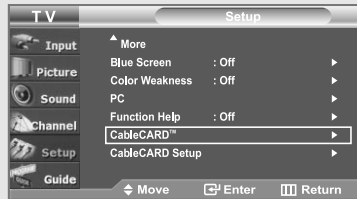
Using the CableCARD Setup Function
(LN-R409D, LN40M51BD, LN-R469D, LN46M51BD)

Sets up the relevant options for CableCARD.

CableCARD Reset
Resets CableCARD when the channels provided by CableCARD are not available.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

T V	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
Setup	Menu Transparency : Medium ▶
Guide	▼ More

♦ Move   Enter   Return

2

Press the **UP/DOWN** ▲▼ buttons to select "CableCARD Setup", then press the **ENTER** button.

T V	Setup
Input	▲ More
Picture	Blue Screen : Off ▶
Sound	Color Weakness : Off ▶
	PC ▶
Channel	Function Help : Off ▶
Setup	CableCARD™ ▶
Guide	CableCARD Setup ▶

♦ Move   Enter   Return

3
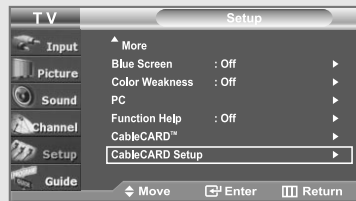
Press the **ENTER** button to select "CableCARD™ Reset".

T V	CableCARD Setup
Input	CableCARD™ Reset
Picture	Channel List Reorganization
Sound	
Channel	
Setup	
Guide	

♦ Move   Enter   Return
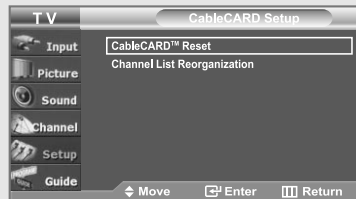
Channel List Reorganization

Deletes and reorganizes the channel list provided by the Cable Company and authorized by the CableCARD.

1

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

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

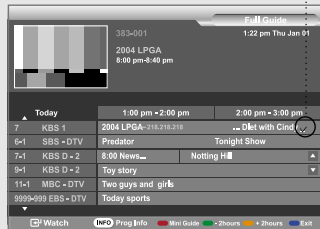| TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
Setup	Menu Transparency : Medium ▶
Guide	▼ More
	◆ Move ⏎ Enter Ⅲ Return

2

Press the **UP/DOWN** ▲▼ buttons to select "CableCARD Setup", then press the **ENTER** button.

| TV	Setup
Input	▲ More
Picture	Blue Screen : Off ▶
Sound	Color Weakness : Off ▶
	PC ▶
Channel	Function Help : Off ▶
Setup	CableCARD™ ▶
Guide	CableCARD Setup ▶
	◆ Move ⏎ Enter Ⅲ Return
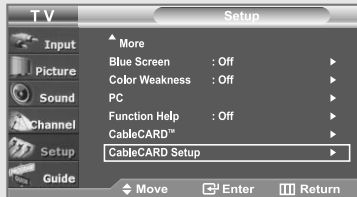
3

Press **DOWN**▼ to select "Channel List Reorganization", then press the **ENTER** button.

TV	CableCARD Setup
Input	CableCARD™ Reset
Picture	Channel List Reorganization
Sound	
Channel	
Setup	
Guide	
	◆ Move ⏎ Enter Ⅲ Return

Chapter 10

APPENDIX

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

Identifying Problems

Problem	Possible Solution
Poor picture	Try another channel.
	Adjust the antenna.
	Check all wire connections.
Poor sound quality.	Try another channel.
	Adjust the antenna.
No picture or sound.	Try another channel.
	Press the SOURCE button.
	Make sure the TV is plugged in.
	Check the antenna connections.
No sound or sound is too low at maximum volume.	First, check the volume of units connected to your TV (digital broadcasting receiver, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly.
Picture rolls vertically.	Check all wire connections.
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.
The TV won't turn on.	Make sure the wall outlet is working.
Remote control malfunctions	Replace the remote control batteries.
	Clean the upper edge of the remote control (transmission window).
	Check the battery terminals.
"Check signal cable" message.	Ensure that the signal cable is firmly connected to the PC sources.
"Not Supported Mode" message.	Check the maximum resolution and the frequency of the Video Adapter.
	Compare these values with the data in the Display Modes.
Digital broadcasting screen problem.	Please check the digital signal strength and input antenna.

Problem	Possible Solution
The image is too light or too dark.	Adjust the Brightness and Contrast. Adjust the Fine tuning.
Horizontal bars appear to flicker, jitter or shimmer on the image.	Adjust the Coarse tuning and then adjust the Fine tuning.
Vertical bars appear to flicker, jitter or shimmer on the image.	Adjust the Coarse tuning and then adjust the Fine tuning.
Screen is black and power indicator light blinks steadily.	On your computer check: Power, Signal Cable. The TV is using its power management system. Move the computer's mouse or press any key on the keyboard.
Image is not stable and may appear to vibrate when you have a computer connected to the PC input.	If the setting is not correct, use your computer utility program to change the display settings. NOTE: Your TV supports multiscan display functions within the following frequency domain:

Horizontal frequency (kHz)	30~60
Vertical frequency (Hz)	60~75
PC Maximum refresh rate (at 60Hz)	1360 x 768

Problem	Possible Solution
Image is not centered on the screen.	Adjust the horizontal and vertical position. The screen position must be adjusted on the output source (i.e. STB) with a digital signal.
If a still image is displayed for an extended period of time, residual images or blurring may appear.	When you need to leave the monitor unused for an extended period of time, adjust the settings so that the monitor automatically goes into energy saving mode or activates the screen saver to display moving images.

The TFT LCD panel uses a panel consisting of sub pixels (3,147,264) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Installing the Stand (LN-R269D, LN-R329D, LN32M51BD)

<2>   <3>
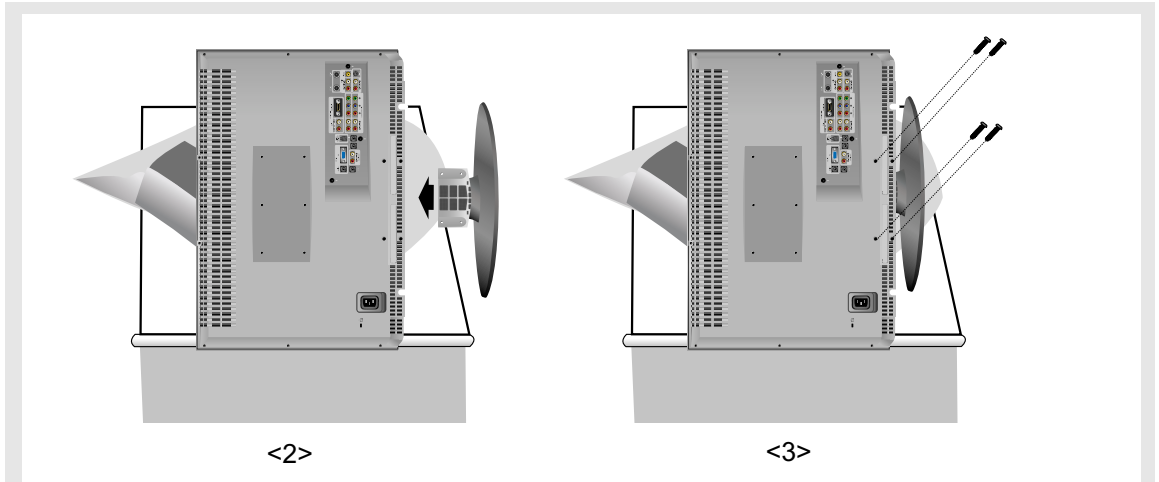
1. Place the TV faced down on a soft cloth or cushion on a table.
2. Attach the stand to the TV set as shown in the picture.
3. Use the four screws to tightly fix the stand.

Disconnecting the Stand

<2>   <3>   <4>
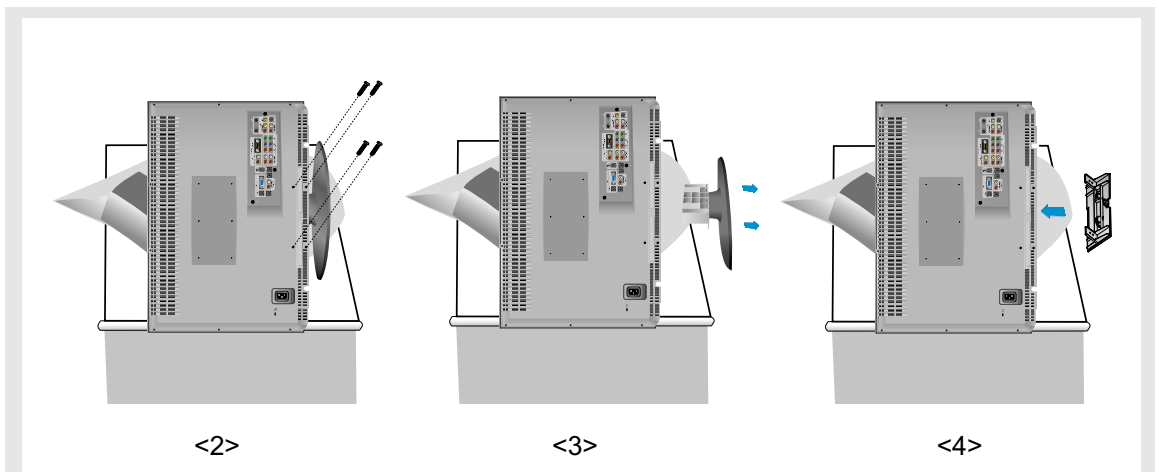
1. Place the TV faced down on a soft cloth or cushion on a table.
2. Remove four screws from the back of the TV.
3. Separate the stand from the TV.
4. Cover the bottom hole with a cap.

Installing the Wall Mount Kit (LN-R269D)

*Note: This installation is to be used when attaching the wall mount to a wall.
When attaching to other building materials, please contact your nearest dealer.*

Components (Sold separately)

		M4 X L12	M4 X L20		
ⓐ Wall-Bracket	ⓑ Set-Bracket	ⓒ Screw: 8EA	ⓓ Wood Screw: 4EA	ⓔ Anchor: 4EA	ⓕ Installation Guide

How to assemble the Wall Mount Bracket

1 ① Mark the location on the wall where the hole will be drilled.
   ② Make over 35mm-depth-hole on the marked location using drill.
   ③ Fix anchors ⓔ on each hole on the wall.
   ④ Connect wall-bracket ⓐ to the wall with wood screws ⓓ after fitting
      anchors ⓔ into the wall-bracket ⓐ .
      Note: If the bracket is not firmly fixed to the wall, LCD TV can fall off.

2 ① Turn the power off and unplug the power cord from the outlet.
   ② Place the TV faced down on a soft cloth or cushion on a table.
   ③ Attach the set-bracket ⓑ onto the rear side of the TV set and secure the screws ⓒ .

   ②   ③

3 ① Insert three Hangers of the set-bracket ⓑ into the grooves of the wall-bracket ⓐ .
   ② Fix set-bracket ⓑ and wall-bracket ⓐ with screws ⓒ .
   Note: Before installing the set on the wall, connect the cables to the set first.

   ①   ②

Installing the Wall Mount Kit (LN-R329D, LN32M51BD, LN-R409D, LN40M51BD, LN-R469D, LN46M51BD)

Note: This installation is to be used when attaching the wall mount to a wall.
When attaching to other building materials, please contact your nearest dealer.

Components (Sold separately)

| ⓐ Wall-Bracket | ⓑ Set-Bracket | ⓒ Screw: 8EA | ⓓ Wood Screw: 7EA | ⓔ Anchor: 7EA | ⓕ Screw: 3EA | ⓖ Installation Guide |

M4 X L15   M4 X L20   M4 X L8

How to assemble the Wall Mount Bracket

1 ① Mark the location on the wall where the hole will be drilled.
   ② Make over 35mm-depth-hole on the marked location using drill.
   ③ Fix anchors ⓔ on each hole on the wall.
   ④ Connect wall-bracket ⓐ to the wall with wood screws ⓓ after fitting
      anchors ⓔ into the wall-bracket ⓐ .
      Note: If the bracket is not firmly fixed to the wall, LCD TV can fall off.

2 ① Turn the power off and unplug the power cord from the outlet.
   ② Place the TV faced down on a soft cloth or cushion on a table.
   ③ Loosen two screws on the rear side of the TV set (only model LN-409D, LN40M51BD applied).
   ④ Attach the set-bracket ⓑ onto the rear side of the TV set and secure the screws ⓒ .
      For 40 inches model, attach the bracket into the two holes with the two screws removed
      in step 3 above.
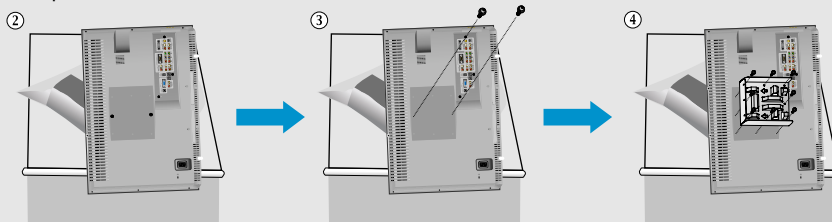
(Only Model LN-409D, LN40M51BD Applied)

3 ① Insert three Hangers of the set-bracket ⓑ into the grooves of the wall-bracket ⓐ .
   ② Fix set-bracket ⓑ and wall-bracket ⓐ with screws ⓕ .
      Note: Before installing the set on the wall, connect the cables to the set first.
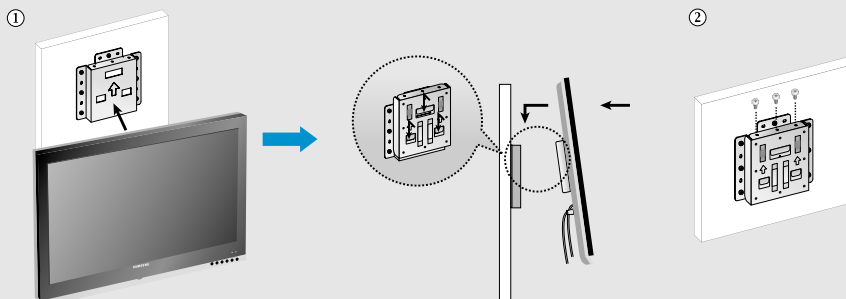
Using the Anti-Theft Kensington Lock

The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.
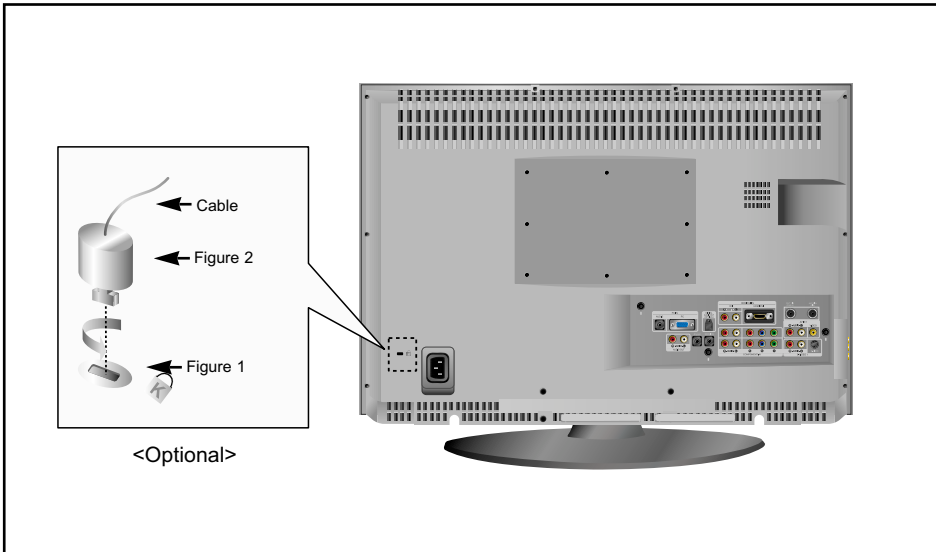
1. Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).

2. Connect the Kensington lock cable.

3. Fix the Kensington lock to a desk or a heavy stationary object.

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.

CableCARD and Digital Cable Ready TVs

CableCARD and Digital Cable Ready TVs are the products of a new digital cable standard.
This new standard is called OpenCable and it is a concerted effort to standardize the digital cable
service network interface in North America. For more information, please refer to www.cablelabs.com.

Digital Cable Ready TVs are equipped with a proper digital cable tuner to receive digital cable signals
from your local cable service provider. They are also designed to work with digital cable card modules
(PCMCIA card modules called CableCARDs). These PCMCIA card modules or CableCARDs will be
provided by your local cable service provider after a proper subscription process.

The provided CableCARD from your local cable service provider needs to be inserted into the
CableCARD slot of a Digital Cable Ready TV. Please refer to page 28 for how to insert the
CableCARD.
A digital Set-Top Box which used to be provided by the cable service provider is no longer needed
with Digital Cable Ready TVs and CableCARDs.

When the CableCARD is inserted into the slot, the TV screen will show a message that CableCARD
is inserted and necessary data such as channel information or subscription information will be
downloaded from your digital cable service provider. When you insert CableCARD for the first time,
this process may take few minutes depending on the amount of data your cable provider needs to
send. During this process, the digital cable service provider or CableCARD may display messages
on the TV screen to help or give you further information.

Please contact your local cable provider for more information on service availability and how to
acquire a CableCARD.

Note
• This television receiver supports the copy protection system regulated by DTLA (Digital Transmission
  Licensing Administrator). It should be noted that copy protected content may not be viewable depending on
  your particular connections.
• Some channels may be scrambled depending on your cable service provider.
  When you tune to these channels, no screen or a still screen may appear. In order to view the screen properly,
  you have to go through a subscription process after contacting your service provider.
  It will take several minutes to update the channel information depending on your cable service provider.

Specifications

Model	LN-R269D	LN-R329D	LN32M51BD
Power Supply			
Input	AC 110V~120V, 60Hz	AC 110V~120V, 60Hz	AC 100V~240V, 60Hz
Panel			
Size	26 inch	32 inch	
Display Size(HXV)	22.67 (H) X 12.74 (V) inches (575.77 (H) X 323.71 (V) mm)	27.47 (H) X 15.44 (V) inches (697.68 (H) X 392.26 (V) mm)	
Type	a-si TFT active matrix	a-si TFT active matrix	
Pixel Pitch	0.017 (H) X 0.017 (V) inches (0.511 (H) X 0.511 (V) mm)	0.017 (H) X 0.017 (V) inches (0.511 (H) X 0.511 (V) mm)	
Viewing Angle	170/170 (H/V)	170/170 (H/V)	
Resolution	1366(H) X 768(V)	1366(H) X 768(V)	
Frequency			
Horizontal	30 ~ 60 kHz	30 ~ 60 kHz	
Vertical	60 ~ 75 Hz	60 ~ 75 Hz	
Display Color	16,777,216 colors	16,777,216 colors	
PC Resolution			
Maximum mode	1360 x 768 @ 60 Hz	1360 x 768 @ 60 Hz	
Optimum mode	1360 x 768 @ 60 Hz	1360 x 768 @ 60 Hz	
Input Signal			
Sync Signal	H/V Separate, TTL, P. or N.	H/V Separate, TTL, P. or N.	
Video Signal	0.7 Vp-p @ 75ohm	0.7 Vp-p @ 75ohm	
TV			
Video System	NTSC(Analog), ATSC(Digital)	NTSC(Analog), ATSC(Digital)	
Sound System	STEREO(MTS)	STEREO(MTS)	
Video			
Color System	NTSC	NTSC	
Video System	CVBS, S-VHS	CVBS, S-VHS	
Component			
Video In	10. Vp-p @ 75ohm	10. Vp-p @ 75ohm	
Audio In	500mVrms	500mVrms	
Power Consumption			
Normal	140W	184W	
Power Saving	<3W	<3W	
Dimensions(W X D X H)			
Unit: body	26.69 X 4.37 X 18.74 inches (678 X 111 X 476 mm)	31.65 X 4.45 X 22.20 inches (804 X 113 X 564 mm)	
With Stand	26.69 X 8.90 X 20.94 inches (678 X 226 X 532 mm)	31.65 X 9.84 X 24.50 inches (804 X 250 X 622.5 mm)	
Weight			
With Stand	29.32 lbs (13.3 kg)	42.32 lbs (19.2 kg)	
Environmental Considerations			
Operating Temperature	50°F to 104°F (10°C to 40°C)	50°F to 104°F (10°C to 40°C)	
Operating Humidity	10% to 80%, non-condensing	10% to 80%, non-condensing	
Storage Temperature	-4°F to 113°F (-20°C to 45°C)	-4°F to 113°F (-20°C to 45°C)	
Storage Humidity	5% to 95%, non-condensing	5% to 95%, non-condensing	
Audio Characteristics			
Audio Input 1	RCA jack (L, R), 0.5Vrms (-9dB)	RCA jack (L, R), 0.5Vrms (-9dB)	
Audio Input 2	3.5ø Stereo Jack, 0.5Vrms (-9dB)	3.5ø Stereo Jack, 0.5Vrms (-9dB)	
Headphone Output	Max. 10mW Output(3.5ø Stereo jack 32)	Max. 10mW Output(3.5ø Stereo jack 32)	
Frequency	RF: 80Hz ~ 15kHz (at- 3dB)	RF: 80Hz ~ 15kHz (at- 3dB)	
Response	A/V: 80Hz ~ 20kHz (at- 3dB)	A/V: 80Hz ~ 20kHz (at- 3dB)	

Model	LN-R409D	LN40M51BD	LN-R469D	LN46M51BD
Power Supply				
Input	AC 110V~120V, 60Hz	AC 100V~240V, 60Hz	AC 110V~120V, 60Hz	AC 100V~240V, 60Hz
Panel				
Size	40 inch		46 inch	
Display Size(HXV)	34.84 (H) X 19.59 (V) inches		40.09 (H) X 22.54 (V) inches	
	(885.17 (H) X 497.67 (V) mm)		(1018.353 (H) X 572.544 (V) mm)	
Type	a-si TFT active matrix		a-si TFT active matrix	
Pixel Pitch	0.0255 (H) X 0.0085 (V) inches		0.0293 (H) X 0.0097 (V) inches	
	(0.648 (H) X 0.216 (V) mm)		(0.7455 (H) X 0.2485 (V) mm)	
Viewing Angle	170/170 (H/V)		170/170 (H/V)	
Resolution	1366(H) X 768(V)		1366(H) X 768(V)	
Frequency				
Horizontal	30 ~ 60 kHz		30 ~ 60 kHz	
Vertical	60 ~ 75 Hz		60 ~ 75 Hz	
Display Color	16,777,216 colors		16,777,216 colors	
PC Resolution				
Maximum mode	1360 x 768 @ 60 Hz		1360 x 768 @ 60 Hz	
Optimum mode	1360 x 768 @ 60 Hz		1360 x 768 @ 60 Hz	
Input Signal				
Sync Signal	H/V Separate, TTL, P. or N.		H/V Separate, TTL, P. or N.	
Video Signal	0.7 Vp-p @ 75ohm		0.7 Vp-p @ 75ohm	
TV				
Video System	NTSC(Analog), ATSC/QAM(Digital)		NTSC(Analog), ATSC/QAM(Digital)	
Sound System	STEREO(MTS)		STEREO(MTS)	
Video				
Color System	NTSC		NTSC	
Video System	CVBS, S-VHS		CVBS, S-VHS	
Component				
Video In	10. Vp-p @ 75ohm		10. Vp-p @ 75ohm	
Audio In	500mVrms		500mVrms	
Power Consumption				
Normal	285W		330W	
Power Saving	<20W		<20W	
Dimensions(W X D X H)				
Unit: body	39.52 X 4.52 X 26.77 inches		44.33 X 5.51 X 29.60 inches	
	(1004 X 115 X 680 mm)		(1126 X 140 X 752 mm)	
With Stand	39.52 X 12.99 X 29.49 inches		44.33 X 14.17 X 32.28 inches	
	(1004 X 330 X 749 mm)		(1126 X 360 X 820 mm)	
Weight				
With Stand	60.62 lbs (27.5 kg)		81.56 lbs (37 kg)	
Environmental Considerations				
Operating Temperature	50°F to 104°F (10°C to 40°C)		50°F to 104°F (10°C to 40°C)	
Operating Humidity	10% to 80%, non-condensing		10% to 80%, non-condensing	
Storage Temperature	-4°F to 113°F (-20°C to 45°C)		-4°F to 113°F (-20°C to 45°C)	
Storage Humidity	5% to 95%, non-condensing		5% to 95%, non-condensing	
Audio Characteristics				
Audio Input 1	RCA jack (L, R), 0.5Vrms (-9dB)		RCA jack (L, R), 0.5Vrms (-9dB)	
Audio Input 2	3.5ø Stereo Jack, 0.5Vrms (-9dB)		3.5ø Stereo Jack, 0.5Vrms (-9dB)	
Headphone Output	Max. 10mW Output(3.5ø Stereo jack 32)		Max. 10mW Output(3.5ø Stereo jack 32)	
Frequency	RF: 80Hz ~ 15kHz (at- 3dB)		RF: 80Hz ~ 15kHz (at- 3dB)	
Response	A/V: 80Hz ~ 20kHz (at- 3dB)		A/V: 80Hz ~ 20kHz (at- 3dB)	

* Referring to Display Modes, page 123.

Display Modes

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your videocard user guide; otherwise there may be no video. For the display modes listed below, the screen image has been optimized during manufacture.

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 X 350	31.469	70.086	25.175	+ / -
	720 X 400	31.469	70.087	28.322	- / +
	640 X 480	31.469	59.940	25.175	- / -
VESA	640 X 480	35.000	70.000	28.560	- / -
	640 X 480	37.861	72.809	31.500	- / -
	640 X 480	37.500	75.000	31.500	- / -
	800 X 600	37.879	60.317	40.000	+ / +
	800 X 600	48.077	72.188	50.000	+ / +
	800 X 600	46.875	75.000	49.500	+ / +
	800 X 600	43.750	70.000	45.500	- / -
	1024 X 768	48.363	60.004	65.000	- / -
	1024 X 768	56.476	70.069	75.000	- / -
	1024 X 768	56.672	72.000	78.434	- / -
	1024 X 768	60.023	75.029	78.750	+ / +
	1360 X 768	47.712	60.015	85.800	+ / +