SAMSUNG

LTN1785W
LT-P1795W

TFT-LCD TELEVISION

SAMSUNG
ELECTRONICS

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.samsungusa.com

Canada
Samsung Electronics Canada Inc.
Samsung Customer Care
7037 Financial Drive
Mississauga, Ontario
L5N 6R3

www.samsung.ca

BN68-00437Y-02

Owner's Instructions

This device is a Class B digital apparatus.

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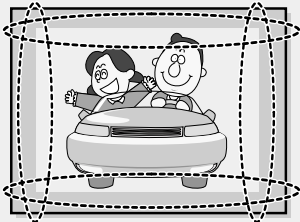
Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

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 the same problem with products by other manufacturers.

• Digital Ready TV: When the TV receives HD-grade signals (and the set-top box output is 1080i).
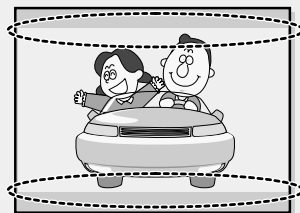
When you watch a digital HD-grade broadcast on a regular (4:3) TV with the screen size "16:9" or "Panorama" selected, you will be able to watch the program but the top and bottom edges of the screen will be cropped.

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 the same problem with products by other manufacturers.

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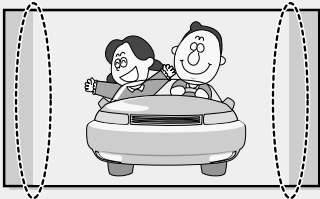
Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

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 the same problem with products by other manufacturers.

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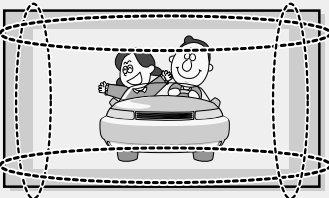
If you connect a DVD player, computer or a game console to the wide-screen TV and watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left and right side edges, or the top and bottom edges of the screen will be cropped.

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 the same problem with products by other manufacturers.

Important
Safety Instructions

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use attachments/accessories specified by the manufacturer.

12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

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

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

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

Note to CATV system installer: This reminder is provided to call CATV system
installer's attention to Article 820-40 of the National Electrical Code (Section 54 of
Canadian Electrical Code, Part I), that provides guidelines for proper grounding and,
in particular, specifies that the cable ground shall be connected to the grounding
system of the building as close to the point of cable entry as practical.

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

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

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

Important: One Federal Court has held that unauthorized recording of
copyrighted TV programs is an infringement of U.S. copyright laws.

Certain Canadian programs may also be copyrighted and any unauthorized recording
in whole or in part may be in violation of these rights.

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

As an ENERGY STAR Partner.

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

Important Warranty Information Regarding Television Format Viewing

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

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

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

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

[Note]
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.

FCC Information

User Instructions

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

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

If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

The party responsible for product compliance:
SAMSUNG ELECTRONICS CO., LTD
America QA Lab of Samsung
3351 Michelson Drive,
Suite #290, Irvine, CA92612 USA

Warning

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

IC Compliance Notice

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

Cet appareil Numérique de classe B respecte toutes les exigences du Règlemont NMB-03 sur les équipements produisant des interférences au Canada.

Notice de Conformité IC

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

VCCI

This is a Class B product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numéique de la classe B est conforme à la norme NMB-003 du Canada.

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

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CONTENTS

Chapter One

Your New TV

List of Features

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

• Easy-to-use remote control

• Easy-to-use on-screen menu system

• Automatic timer to turn the TV on and off

• Adjustable picture and sound settings that can be stored in the TV's memory

• Automatic channel tuning for up to 181 channels

• A special filter to reduce or eliminate reception problems

• Fine tuning control for the sharpest picture possible

• A built-in multi-channel sound decoder for stereo and bilingual listening

• Built-in, dual channel speakers

• Headphone jack for private listening

• 16:9 letter box format available depending upon source

List of Parts

Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.
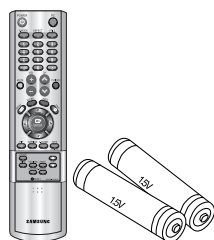
Remote Control
(BN59-00362B) &
Batteries (AAA x 2)
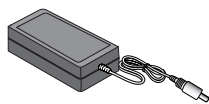
Adapter
(BN44-00074A)
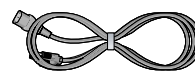
Power Cord
(3903-000085)
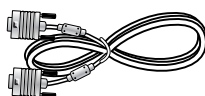
PC Video Cable
15-pin D-Sub Signal Cable
(BN39-00043A)
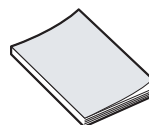
Owner's
Instructions

Familiarizing Yourself with Your New TV

Top Panel Buttons

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

☛ Colors may vary depending on the model you purchase.

❶ TV/VIDEO ⊟ (See Page 20)
Displays a menu of all of the available input sources (TV, VIDEO, S-VIDEO, Component 1, Component 2, PC).

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

❸ – VOL +
Press to increase or decrease the volume.

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 SPEAKER

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

❽ POWER INDICATOR
Lights up when you turn the power off.

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 7-14.

☞ Colors may vary depending on the model you purchase.

WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc.
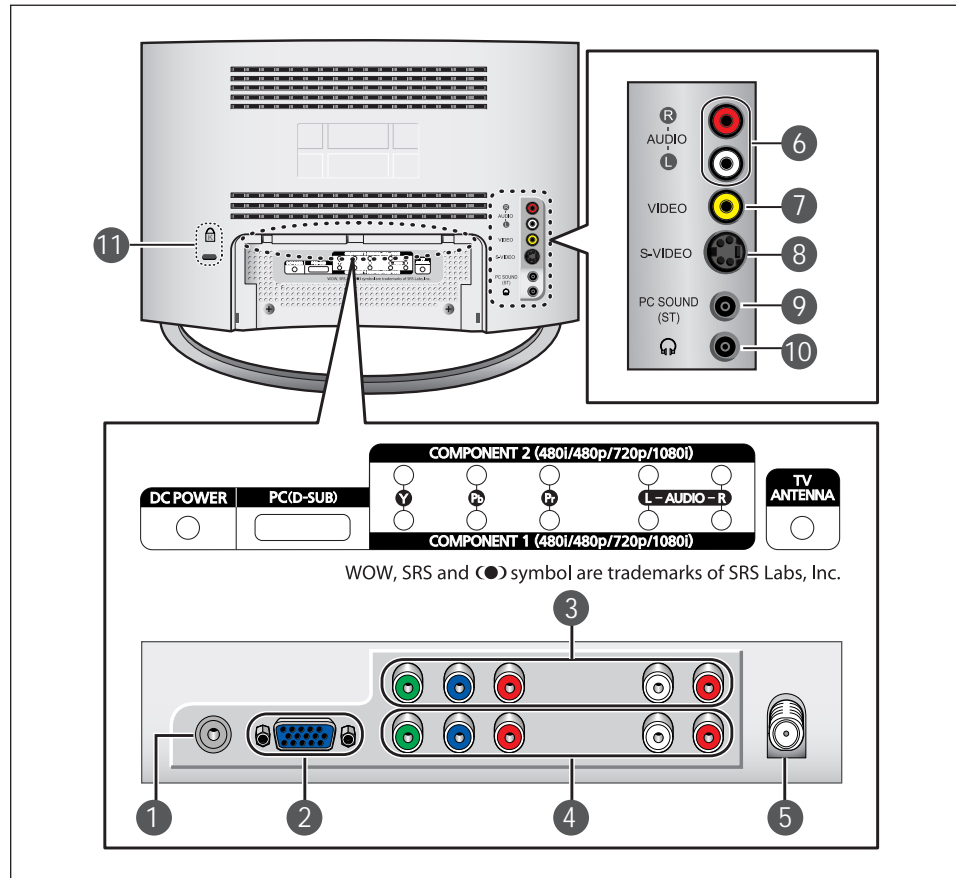
❶ POWER INPUT

❷ PC VIDEO INPUT
Connect to the video output port on your PC.

❸ COMPONENT 2
Connect a component video/audio.

❹ COMPONENT 1
Connect a component video/audio.

❺ TV ANTENNA
Connects to an antenna or to a cable
TV system.

❻ AUDIO INPUT
Connect audio signal(L/R) from a
camcorder or VCR.

❼ VIDEO INPUT
Connect a video signal from a
camcorder or VCR.

❽ SUPER VIDEO INPUT
Connect an S-Video signal from a
camcorder or VCR.

❾ PC SOUND INPUT

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

⓫ KENSINGTON LOCK
(See page 56)

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Remote Control

Frequently Used Buttons

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.

❶ POWER
Turns the TV on and off.
(See Page 15)

❷ P.MODE
Adjusts the TV picture by selecting
one of the preset factory settings.
(See Page 22)

❸ ASPECT
Use to toggle the five screen size
options among Wide, Panorama,
Zoom 1, Zoom 2 and Normal.
(See Page 31)

❹ MUTE
Press to temporarily cut off
the sound. (See Page 15)

❺ MENU
Displays the main on-screen menu.

❻ PC MODE
Press to switch to the PC mode.

❼ STILL
Press to stop the action during
a particular scene. Press again to
resume normal video.
(See Page 31)

**❽ CH⌃ and CH⌄
(Channel UP/Down)**
Press CH⌃ or CH⌄ to change
channels.
VOL + and VOL -
Press to increase or decrease
the volume.

❾ TV/VIDEO
Press to display all of the available
video sources.

❿ JOYSTICK
Use to select on-screen menu
items and change menu values.
(The remote control will only
function with VCR or DVD units
that are compatible with the LCD TV.)

YOUR NEW TV

Convenient Buttons

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.

❶ +100
Press to select channels over 100.
For example, to select channel 121,
press "+100", then press "2" and "1".
(See Page 19)

❷ Sleep Timer
Press to select a time for the TV to
turn off automatically.
(See Page 41)

❸ PIP
See the PIP screen section of this
manual. (See Page 29)

CAPTION (See Page 42)
Press to set caption on/off.

S.MODE
Adjust the TV sound by selecting
one of the preset factory settings
(or select your personal, customized
sound settings). (See Page 24)

MTS
(Multi channel Television Stereo)
Press to choose stereo, mono or
Separate Audio Program
(SAP broadcast). (See Page 35)

❹ PIP controls (See Page 29)
LOCATE
Press to move the PIP window to
any of the four corners of the
TV screen.
SIZE
Press to make the PIP window
double, large or small.
TV/VIDEO
Press to select one of the available
signal sources for the PIP window.
SWAP
Exchanges the video signal that is
currently displayed on the main
screen with the signal in the PIP
window.
⌃ CH ⌄
Displays the available channels
in sequence.
(These buttons change channels
in the PIP window only.)
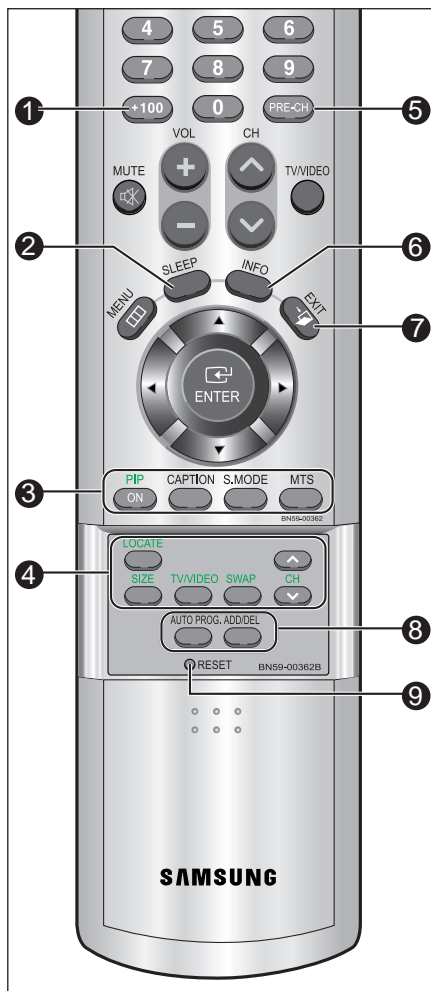
❺ PRE-CH
Tunes to the previous channel.
(See Page 15)

❻ Info Display
Use to see information on the
current broadcast. (See Page 16)

❼ EXIT
Press to exit the menu.

❽ AUTO PROG.
Use to store the broadcast/cable
channels that you receive.
(See Page 19)

ADD/DEL
Use to store and delete channels
to/from memory. (See Page 20)

❾ RESET
When your remote does not work,
change the batteries and press the
RESET button for 2-3 seconds
before use.

English-**5**

Installing Batteries in the Remote Control

1
Slide the cover out
completely.
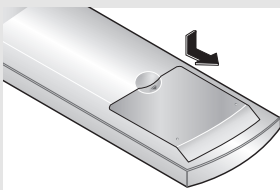
2
Install two AAA size
batteries.
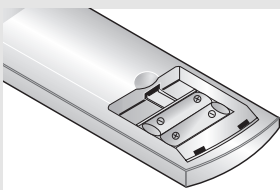
◀Make sure to match the "+" and
"−" ends of the batteries with the
diagram inside the compartment.

3
Replace the cover.
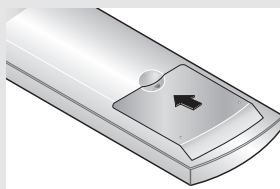
◀Remove the batteries and store them
in a cool, dry place if you won't be
using the remote control for a long
time.

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.)

The remote control doesn't work!

Check the following:

1. Is the TV power switch on?

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

3. Did the battery run out?

4. Is the power out, or is the power cord unplugged?

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

Chapter Two

INSTALLATION

Connecting VHF and UHF Antennas

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

If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads", on page 8.
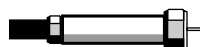
If you have two antennas, see "Separate VHF and UHF Antennas", on page 8.

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 adaptor (not supplied). Use a screwdriver to tighten the screws.
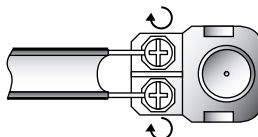
2

Plug the adaptor into the TV ANTENNA terminal on the bottom of the back panel.
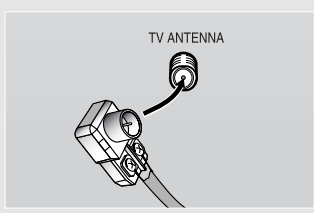
TV ANTENNA

INSTALLATION

Antennas with 75-ohm Round Leads

1

Plug the antenna lead into the TV ANTENNA terminal on the bottom of the back panel.
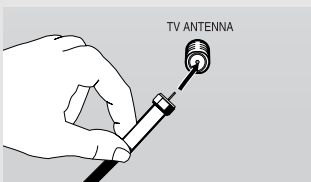
TV ANTENNA

Separate VHF and UHF Antennas

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

1

Connect both antenna leads to the combiner.

UHF
VHF
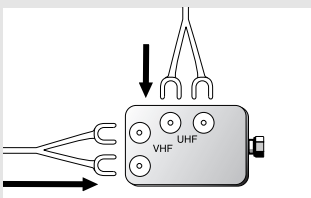
2

Plug the combiner into the TV ANTENNA terminal on the bottom of the rear panel.

UHF
VHF
TV ANTENNA
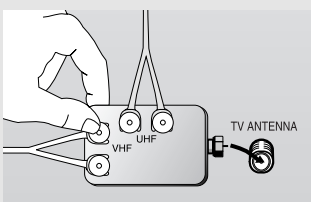
Connecting Cable TV

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

Cable without a Cable Box

1

Plug the incoming cable into the TV ANTENNA terminal on back of the TV.
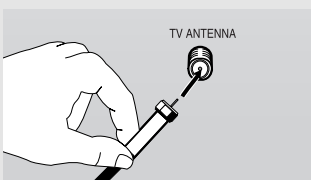
TV ANTENNA

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

INSTALLATION

Connecting to a Cable Box that Descrambles All Channels

1

Find the cable that is connected to the ANTENNA OUT terminal on your cable box.
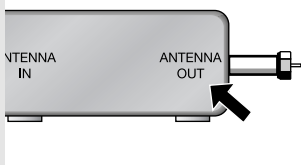
◀This terminal might be labeled "ANT OUT", "VHF OUT", or simply, "OUT".

2

Connect the other end of this cable to the TV ANTENNA terminal on the back of the TV.
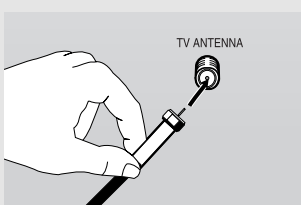
Connecting to a Cable Box that Descrambles Some Channels

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

1

Find and disconnect the cable that is connected to the ANTENNA IN terminal on your cable box.
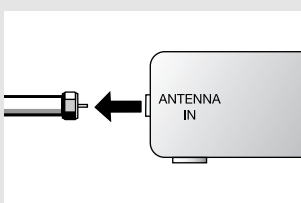
◀This terminal might be labeled "ANT IN", "VHF IN", or simply, "IN".

2

Connect this cable to a two-way splitter.

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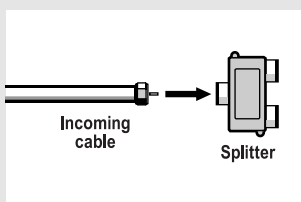
Connect a coaxial cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.

English-**9**
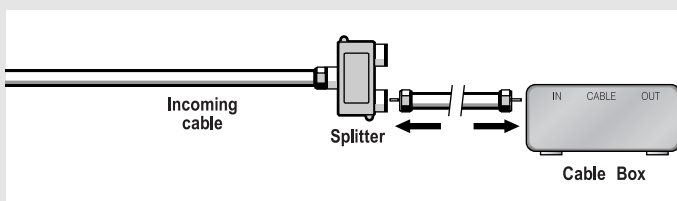
INSTALLATION

4

Connect a coaxial
cable between the
ANTENNA OUT
terminal on the
cable box and the
B–IN terminal on the
A/B switch.
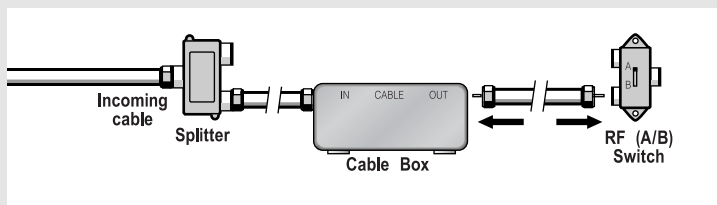
5

Connect another
cable between the
other OUT terminal
on the splitter and
the A–IN terminal on
the RF (A/B) switch.
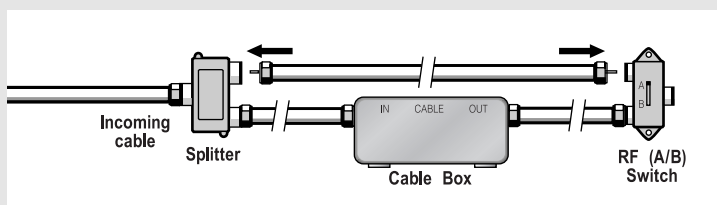
6

Connect the last
coaxial cable
between the OUT
terminal on the RF
(A/B) switch and the
VHF/UHF terminal
on the rear of the
TV.
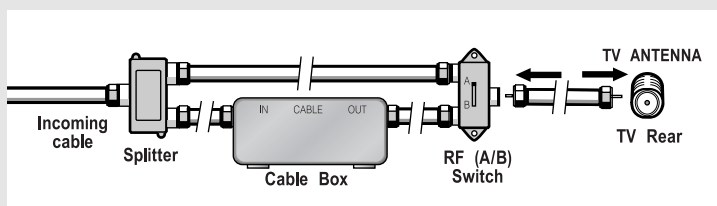
After you've made this connection, set the A/B switch to the "A" position for normal
viewing. Set the A/B switch to the "B" position to view scrambled channels.
(When you set the A/B switch to "B," you will need to tune your TV to the cable box's
output channel, which is usually channel 3 or 4.)

INSTALLATION

Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 7-9).
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.
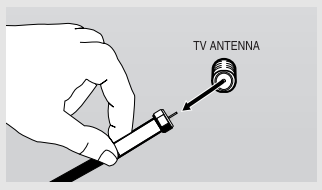
TV ANTENNA

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

VCR Rear Panel

Incoming Cable or Antenna
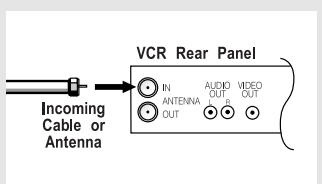
3
Connect a coaxial cable between the ANTENNA OUT terminal on the VCR and the antenna terminal on the TV.

VCR Rear Panel   TV Rear Panel
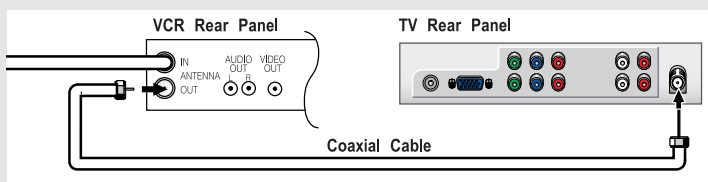
Coaxial Cable

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

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

VCR Rear Panel   TV Rear Panel
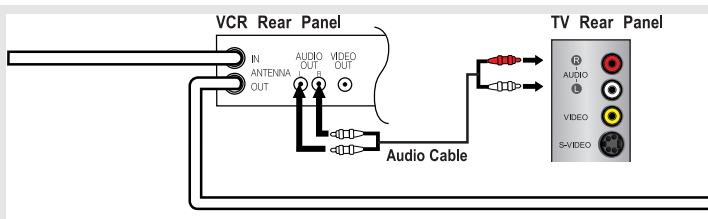
Audio Cable

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

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

VCR Rear Panel   TV Rear Panel

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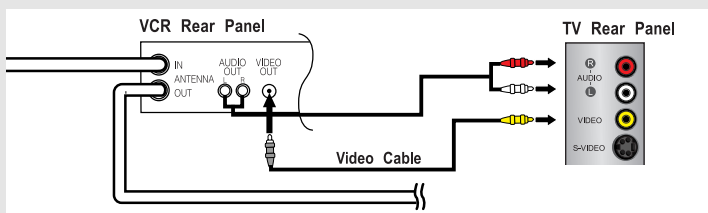
Follow the instructions in "Viewing a VCR or Camcorder Tape" to view your VCR tape.

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

English-**11**

INSTALLATION

Connecting an S-VHS VCR

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

1

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

VCR Rear Panel   TV Rear Panel

Coaxial Cable
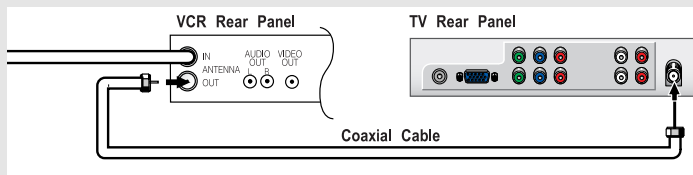
2

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

VCR Rear Panel   TV Rear Panel

Audio Cable
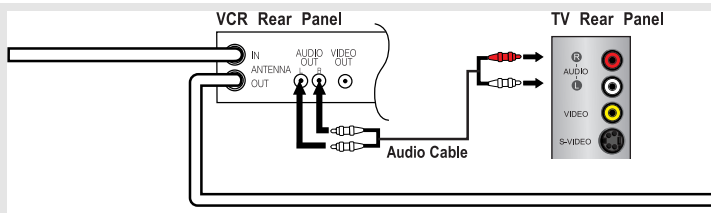
3

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

VCR Rear Panel   TV Rear Panel
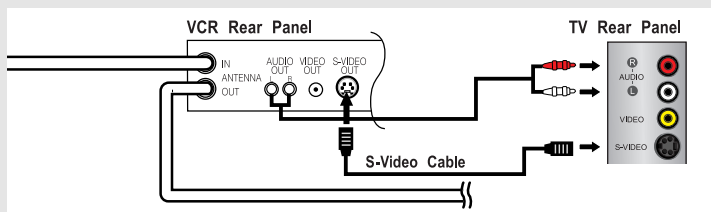
S-Video Cable

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.

Connecting a DVD Player

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

1

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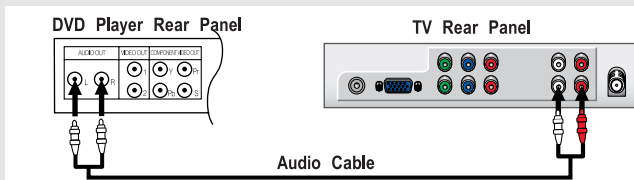
2

Connect a video cable between the COMPONENT1 (Y, Pb, Pr) jacks on the TV and the Y, Pb, Pr jacks on the DVD player.
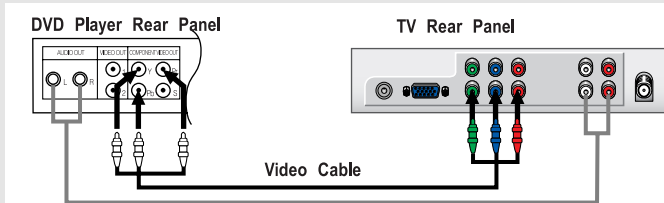
Note: For an explanation of Component video, see your DVD player owner's manual.

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

English-**13**

INSTALLATION

Connecting a PC

Note: This figure shows the Standard Connector-jack panel. The actual configuration on your TV may be different, depending on the model.

TV rear panel

PC rear

PC VIDEO INPUT (15-pin D-SUB)

PC SOUND INPUT (Optional)
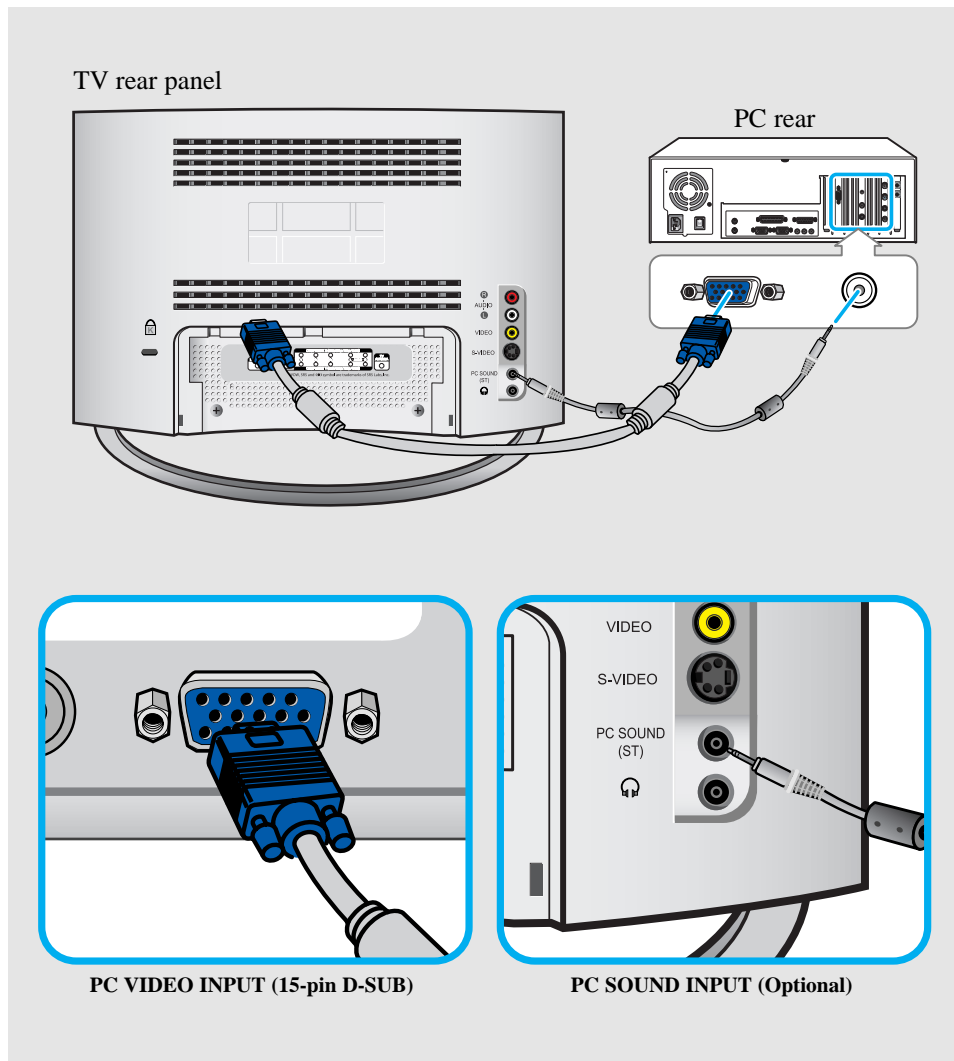
- **PC AUDIO INPUT**
  Connect these to the audio-output jacks on your PC.

- **PC VIDEO INPUT**
  Connect to the video output port on your PC.

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

English-**14**

Chapter Three

SPECIAL FEATURES

Turning the TV On and Off

Press the **POWER** button.
You can also use the Power button on the top 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.

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 temporarily cut off the sound using the Mute button.

1
Press **MUTE** and the sound cuts off.

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

2
To turn mute off, press the **MUTE** button again, or simply
press the **VOL +/-** buttons.

SPECIAL FEATURES

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 3	
Mono	
Picture	Dynamic
Sound	Custom
MTS	Stereo
WOW	Off
Clock	12 : 00 am

◀ The on-screen displays disappear after about ten seconds.
◀ Press the button once more or wait approximately 10 seconds and it disappears automatically.
◀ Allows the user to adjust the settings according to his/her preference and shows the current settings.

Viewing the Menus

1

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

The main menu appears on the screen. It's left side has five icons: Input, Picture, Sound, Channel and Setup.

TV		Input
Input	TV/Video : TV	▶
Picture	Edit Name	▶
Sound		
Channel		
Setup		
Move	Enter	Return

◀ The on-screen menus disappear from the screen after about thirty seconds.
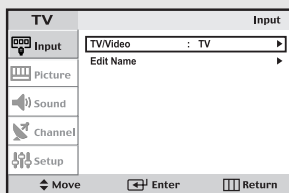
2

Use the **UP/DOWN ▲▼** buttons to select one of the 5 icons. Then press **ENTER(↵)** to access the icon's sub-menu.

3

Press the **MENU** button to exit.

◀ You can also use the TV/Video(↵) buttons on the control panel of the TV to make selections.

English-16

Chapter Four

OPERATION

Plug & Play Feature

When the TV is initially powered On, two basic customer settings proceed automatically and subsequently: Setting Auto program, Clock.

1

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

The message "Plug & Play" is displayed.

Plug & Play

2

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

Language
English
Français
Español
Português
‡ Move   ↵ Enter   ⫴ Stop
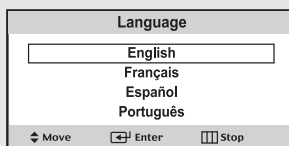
Press the **UP/DOWN ▲▼** buttons to select "Air", then press the **ENTER** button.

Air/CATV
Air
STD
HRC
IRC
‡ Move   ↵ Enter   ⫴ Stop

3

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

Auto Program
Antenna Input Check
Start   Exit
◀▶ Move   ↵ Enter   ⫴ Clock

Press the **ENTER** button to stop.

Auto Program
▮▬▬▬▬▬▬▬ Air 43
Stop   Exit
◀▶ Move   ↵ Enter   ⫴ Clock

4
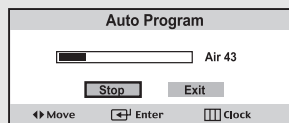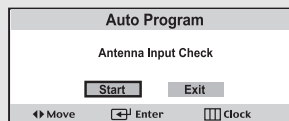
Press the **LEFT/RIGHT ◀▶** buttons to move to the hour or minute.
Set the hour or minute by pressing the **UP/DOWN ▲▼** buttons. (refer to "Setting the Clock" on page 38.)

Clock
Hour   Minute   am/pm
12   05   am
◀▶ Move   ‡ Adjust   ⫴ Stop
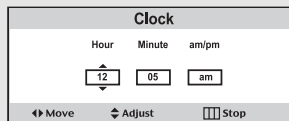
5

The message "Enjoy your watching." is displayed.

Enjoy your watching

English-**17**

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	Air/CATV : Air	▶
Picture	Auto Program	▶
Sound	Add/Delete	▶
Channel	Fine Tune	▶
Setup		
⬍ Move	Enter	Return
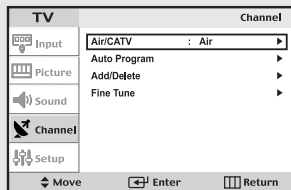
2

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

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

TV		Channel
Input	Air/CATV :	Air
Picture	Auto Program	STD
Sound	Add/Delete	HRC
Channel	Fine Tune	IRC
Setup		
⬍ Move	Enter	Return
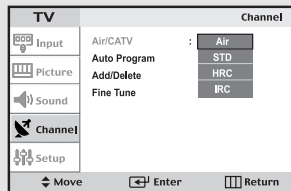
Note : STD, HRC and IRC identify various types of cable
       TV systems. Contact your local cable company to identify
       the type of cable system that exists in your particular area.

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

English-**18**

OPERATION

Storing Channels in Memory (Automatic Method)

1

First, select the correct signal source (Air, STD, HRC, IRC). See steps 1~2 on previous page.

Press the **MENU** button.

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

TV		Channel
Input	Air/CATV : Air	▶
Picture	Auto Program	▶
Sound	Add/Delete	▶
Channel	Fine Tune	▶
Setup		
◆ Move	Enter	Return

2
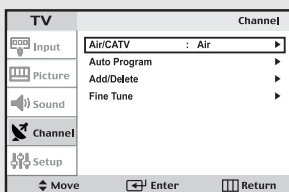
Press the **UP/DOWN** ▲▼ buttons to select "Auto program". Press the **ENTER** button.
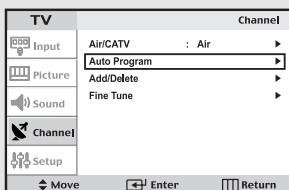
TV		Channel
Input	Air/CATV : Air	▶
Picture	Auto Program	▶
Sound	Add/Delete	▶
Channel	Fine Tune	▶
Setup		
◆ Move	Enter	Return

3

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

Auto Program

Air 21
Start   Return
◀▶ Move   Enter
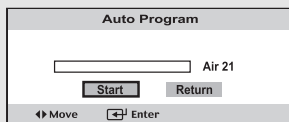
4

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

Auto Program

Air 40
Stop   Return
◀▶ Move   Enter
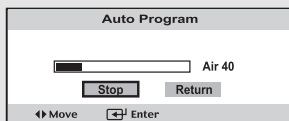
◀ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes.

Press **ENTER** at any time to interrupt the memorization process and return to the CHANNEL menu.

To check the channels stored in memory

Press the **CH** ∧ / ∨ button.

• Only the channels stored in memory are selected.

To select channels over 100,

Ex) Press ⬤100 → ⬤0 → ⬤8 to select channel 108.

English-**19**

ADD and DEL Channels (Manual Method)

1

Use the number buttons to directly select the channel to Add or Delete.

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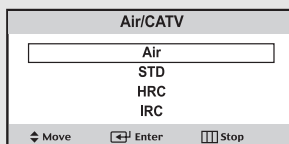
Press the **UP/DOWN ▲▼** buttons to select "Channel", then press the **ENTER** button.

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

Press the **LEFT/RIGHT ◀▶** buttons to select "Add" or "Delete". Press the **ENTER** button. Press the **EXIT** button.

```
TV                              Channel
  Input      Air/CATV        :  Air        ▶
  Picture    Auto Program                  ▶
             Add/Delete                    ▶
  Sound      Fine Tune                     ▶
  Channel
  Setup
  ◆ Move         Enter           Return
```

```
            Add/Delete
     Air  28    Not in Memory
           Add        Return
  ◇ CH Change   ◀▶ Move        Add
```

```
            Add/Delete
     Air  28     in Memory
           Delete      Return
  ◇ CH Change   ◀▶ Move        Delete
```
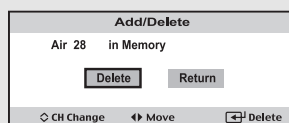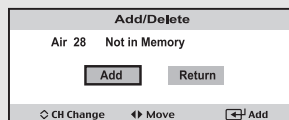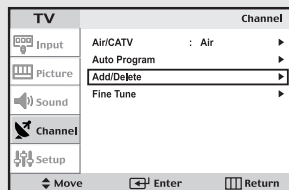
2(Alternate method)

Press the **ADD/DEL** button.
Repeatedly pressing **ENTER** will alternate between "Add" and "Delete".
Press the **LEFT/RIGHT ◀▶** buttons to select Exit, then press **ENTER** to exit.

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

To Select TV/Input

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

1

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

Press the **ENTER** button.

```
TV                         Input
  Input    TV/Video    :  TV        ▶
           Edit Name              ▶
  Picture
  Sound
  Channel
  Setup
  ◆ Move      Enter       Return
```

2
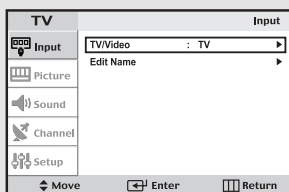
Press the **ENTER** button to select "TV", then press the **ENTER** button.

3

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

```
TV                         TV/Video
  Input     TV
            AV          :  ---
  Picture   S-Video     :  ---
            Component1  :  ---
  Sound     Component2  :  ---
            PC          :  ---
  Channel
  Setup
  ◆ Move      Enter       Return
```

English-20
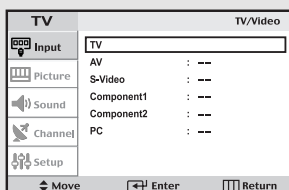
To Edit the Input Source Name

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

1

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

TV		Input
Input	TV/Video	: TV ▶
Picture	Edit Name	▶
Sound		
Channel		
Setup		
◆ Move	⊕ Enter	▥ Return

2
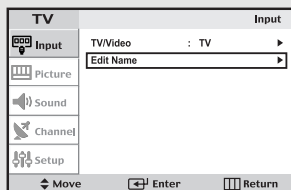
Press the
UP/DOWN ▲▼ buttons
to select
"AV", "S-Video",
"Component1",
"Component2" or "PC"
then press the
ENTER⊕ button.

TV		Edit Name
Input	AV	: --- ▶
Picture	S-Video	: --- ▶
Sound	Component1	: --- ▶
	Component2	: --- ▶
Channel	PC	: --- ▶
Setup		
◆ Move	⊕ Enter	▥ Return

3

Press the
UP/DOWN ▲▼ buttons
repeatedly until the
correct VCR appears.

After the VCR is
entered, press the
ENTER⊕ button.

TV		Edit Name
Input	AV	: —
Picture	S-Video	: VCR
	Component1	: DVD
Sound	Component2	: Cable STB
Channel	PC	: HD STB
		Satellite STB
Setup		AV Receiver
		▼
◆ Move	⊕ Enter	▥ Return

TV		Edit Name
Input	AV	: ▲
Picture	S-Video	: DVD Receiver
	Component1	: Game
Sound	Component2	: Camcorder
Channel	PC	: DVD Combo
		DHR
Setup		PC
◆ Move	⊕ Enter	▥ Return

English-**21**
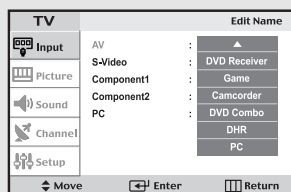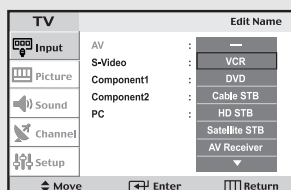
Using Automatic Picture Settings

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

1

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

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

TV		Picture
Input	Picture Mode	: Dynamic ▶
Picture	Custom Picture	▶
Sound	Color Tone	: Standard ▶
Channel	Size	: Wide ▶
Setup	PIP	▶
◆ Move	◀┘ Enter	Return

2
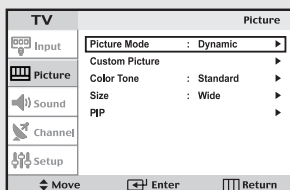
Press the **UP/DOWN** ▲▼ buttons to select the "Dynamic", "Standard", "Movie" or "Custom" picture setting.

Press **ENTER** . Press **MENU** twice to exit.

TV		Picture
Input	Picture Mode	: Custom
Picture	Custom Picture	Dynamic
Sound	Color Tone	: Standard
Channel	Size	: Movie
Setup	PIP	
◆ Move	◀┘ Enter	Return

Alternate method:

Simply press the **P.MODE** button on the remote control to select one of the standard picture settings.

- Choose *Dynamic* to increase the clarity and sharpness of the picture.
- Choose *Standard* for the standard factory settings.
- Choose *Movie* when viewing the Movie.
- Choose *Custom* if you want to adjust the settings according to personal preference (see "Customizing the Picture, page 23).

OPERATION

Customizing the Picture

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

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	Picture Mode : Dynamic	▶
Picture	Custom Picture	▶
Sound	Color Tone : Standard	▶
Channel	Size : Wide	▶
Setup	PIP	▶
◆ Move	Enter	Return

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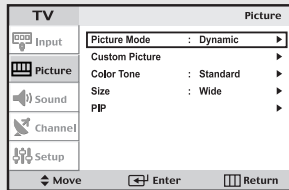
Press the **UP/DOWN ▲▼** buttons to select "Custom Picture", then press the **ENTER** button.

TV		Picture
Input	Picture Mode : Dynamic	▶
Picture	Custom Picture	▶
Sound	Color Tone : Standard	▶
Channel	Size : Wide	▶
Setup	PIP	▶
◆ Move	Enter	Return

3

Press the **ENTER** buttons to select a particular item.

TV		Custom Picture
Input	Contrast	90
Picture	Brightness	50
Sound	Sharpness	75
Channel	Color	50
Setup	Tint 50 G R	50
◆ 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 **ENTER** increases it.

Press the **MENU** button to exit.
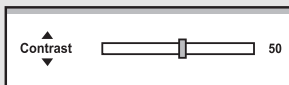
Contrast   50

Press the **UP/DOWN ▲▼** buttons to select Contrast, Brightness, Sharpness, Color or Tint.

English-**23**

Using Automatic Sound Settings

Your TV has five automatic sound settings ("Custom", "Standard", "Music", "Movie" and "Speech") that are preset at the factory. You can activate any of them by pressing the S.MODE button (or by making a selection from the on-screen menu). Or, you can select "Custom Sound", which automatically recalls your personalized sound settings.
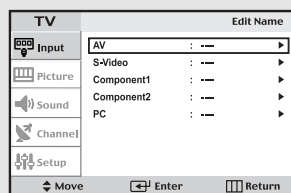
1

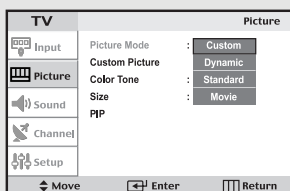Press the **MENU** button to display the menu.

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

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

TV		Sound
Input	Sound Mode	: Custom ▶
Picture	Custom Sound	▶
	WOW	: Off ▶
Sound	Auto Volume	: Off ▶
Channel	MTS	: Stereo ▶
	Headphone	▶
Setup	Sound Select	: Main ▶
↕ Move	⏎ Enter	Ⅲ Return

2
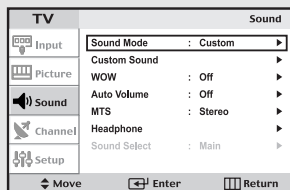
Press the **UP/DOWN ▲▼** buttons repeatedly to select the "Standard", "Music", "Movie", "Speech", or "Custom" sound settings. Press **MENU** to exit.

TV		Sound
Input	Sound Mode	: **Custom**
Picture	Custom Sound	**Standard**
	WOW	: **Music**
Sound	Auto Volume	: **Movie**
Channel	MTS	: **Speech**
	Headphone	
Setup	Sound Select	: Main
↕ Move	⏎ Enter	Ⅲ Return
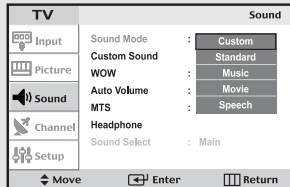
Alternate method:
Simply press the the **S.MODE** button on the remote control to select one of the standard sound settings.

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

English-**24**

Customizing the Sound

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

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	Sound Mode	: Custom ▶
	Custom Sound	▶
Picture	WOW	: Off ▶
Sound	Auto Volume	: Off ▶
	MTS	: Stereo ▶
Channel	Headphone	▶
Setup	Sound Select	: Main ▶
↕ Move	⊕ Enter	▥ Return

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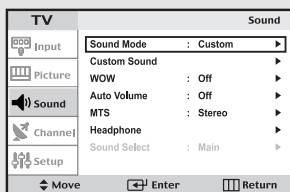
Press the
UP/DOWN ▲▼ buttons
to select "Custom Sound",
then press the **ENTER** ⊕
button.

TV		Sound
Input	Sound Mode	: Custom ▶
	Custom Sound	▶
Picture	WOW	: Off ▶
Sound	Auto Volume	: Off ▶
	MTS	: Stereo ▶
Channel	Headphone	▶
Setup	Sound Select	: Main ▶
↕ Move	⊕ Enter	▥ Return

3

Press the
LEFT/RIGHT ◀▶
buttons to select a
particular item to be
changed.

Press the
UP/DOWN ▲▼ buttons
to increase or decrease
the value of a particular
item.

Press the **MENU** button
to exit.

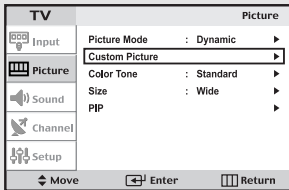| TV			Custom Sound
Input	Vol L-R 100 300 1K 3K 10K		
Picture			
Sound			
Channel			
Setup			
↕ Move	⊕ Enter	▥ Return	
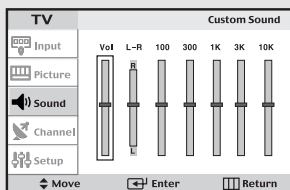
OPERATION

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.

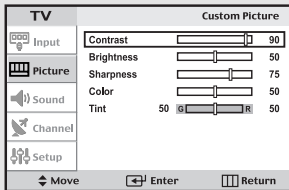| TV		Setup
📷 Input	Time	►
	Plug&Play	►
📺 Picture	V-Chip	►
🔊 Sound	Caption	►
	Language : English	►
📡 Channel	Blue Screen : Off	►
	PC Setup	►
🎛 Setup		
◆ Move	↵ Enter	Ⅲ Return

2
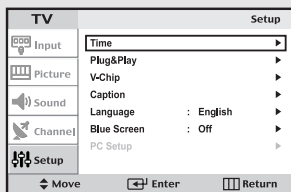
Press the **UP/DOWN** ▲▼ buttons to select Language.

Press the **ENTER** button.

TV		Setup
📷 Input	Time	►
	Plug&Play	►
📺 Picture	V-Chip	►
🔊 Sound	Caption	►
	Language : English	►
📡 Channel	Blue Screen : Off	►
🎛 Setup	PC Setup	►
◆ Move	↵ Enter	Ⅲ Return

3
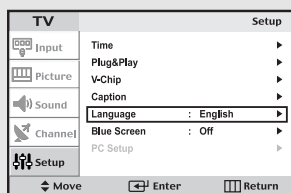
Press the **UP/DOWN** ▲▼ buttons to select Language, Français, Español, English or Português.

Press the **MENU** button to exit.
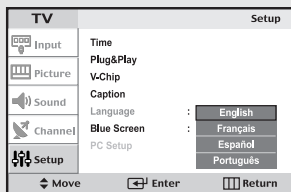
TV		Setup
📷 Input	Time	
	Plug&Play	
📺 Picture	V-Chip	
🔊 Sound	Caption	
	Language :	**English**
📡 Channel	Blue Screen :	**Français**
🎛 Setup	PC Setup	**Español**
		Português
◆ Move	↵ Enter	Ⅲ Return

Setting the Blue Screen Mode

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

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	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
	Language : English	▶
Channel	Blue Screen : Off	▶
Setup	PC Setup	▶
◆ Move	◀┘ Enter	▥ Return
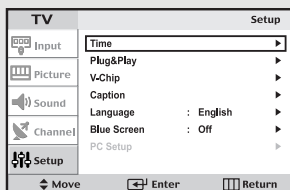
2
Press the **UP/DOWN ▲▼** buttons to select "Blue Screen", then press the **ENTER** button.

TV		Setup
Input	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
	Language : English	▶
Channel	Blue Screen : Off	▶
Setup	PC Setup	▶
◆ Move	◀┘ Enter	▥ Return

3
Press the **UP/DOWN ▲▼** buttons to set Blue Screen "On" or "Off".

Press the **MENU** button to exit.

TV		Setup
Input	Time	
Picture	Plug&Play	
	V-Chip	
Sound	Caption	
	Language : English	
Channel	Blue Screen : Off	
Setup	PC Setup On	
◆ Move	◀┘ Enter	▥ Return

◀Pressing the **UP/DOWN ▲▼** buttons will alternate between "On" and "Off".

OPERATION

Fine Tuning Channels

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

1

Select the appropriate channel.

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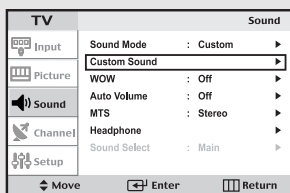
Press the **MENU** button to display the menu.

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

TV		Channel
Input	Air/CATV : Air	▶
Picture	Auto Program	▶
Sound	Add/Delete	▶
Channel	Fine Tune	▶
Setup		

◇ Move   Enter   Return

3
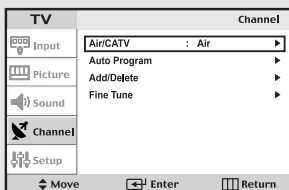
Press the **UP/DOWN** ▲▼ buttons to select "Fine Tune", then press the **ENTER** button.

TV		Channel
Input	Air/CATV : Air	▶
Picture	Auto Program	▶
Sound	Add/Delete	▶
Channel	Fine Tune	▶
Setup		

◇ Move   Enter   Return

4

Press the **RIGHT** ▶ and **LEFT** ◀ buttons to adjust the fine tuning.

Fine Tune

Air 28   0

Reset   Return

◇ CH Change   Adjust   Store

◀ If you do not store the channel in memory, adjustments to the settings are applied before you change the channel but are not saved. Therefore they return to the original settings once you move to another channel. User-adjusted channels are marked with an asterisk " ∗ " on the right-hand side of the channel number in the channel banner.

5

To store the fine tuning setting in the TV's memory, press the **ENTER** button.

To reset the fine tuning, press the **UP/DOWN** ▲▼ buttons to select "Reset", then press the **ENTER** button.

Press the **MENU** button to exit.

Fine Tune

Air 28   0

Reset   Return

◇ CH Change   Adjust   Store

Fine Tune

This Channel is fine tuned

Air 28   0

Reset   Return

◇ CH Change   Enter   Return

English-**28**

OPERATION

Viewing Picture-in-Picture

This product has one tuner built-in, which does not allow PIP to function in the same mode. 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.
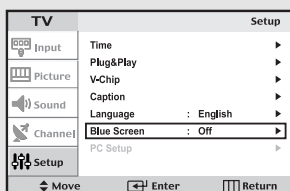
Activating Picture-in-Picture

1

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

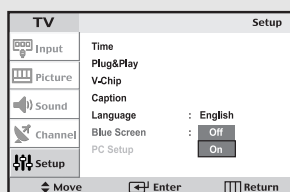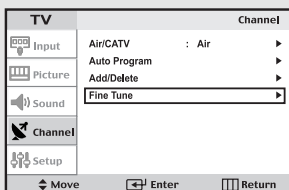Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER** ⊡ button. Press the **UP/DOWN** ▲▼ buttons to select "PIP".

TV		Picture
▒ Input	Picture Mode	: Dynamic ▶
▥ Picture	Custom Picture	▶
◄)) Sound	Color Tone	: Standard ▶
✗ Channel	Size	: Wide ▶
▓ Setup	PIP	▶
↕ Move	⊡ Enter	▥ Return
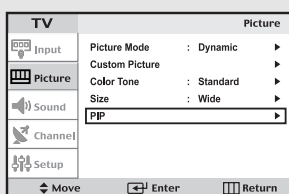
◄ Quick way to access the PIP menu: Simply press the PIP button on the remote control.

2

Press the **ENTER** ⊡ button to select PIP "Off".

TV		PIP
▒ Input	PIP	: Off ▶
▥ Picture	TV/Video	: TV ▶
◄)) Sound	Swap	▶
✗ Channel	Size	: ▯ ▶
▓ Setup	Position	: ▯ ▶
	Ch.No.	: Air 3 ▶
↕ Move	⊡ Enter	▥ Return
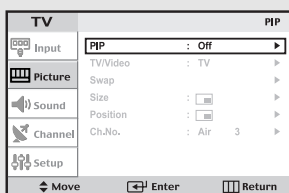
◄ If you turn the TV off while watching and turn it on again, the PIP window will disappear.

3

Press the **MENU** button to exit.
Note: Picture-in-Picture does not function when the V-chip is active.

PIP Settings

O : PIP operates
X : PIP doesn't operate

Sub Picture / Main Picture	TV	AV	S-Video	Component 1	Component 2	PC
TV	X	X	X	O	O	O
AV	X	X	X	O	O	O
S-Video	X	X	X	O	O	O
Component 1	O	O	O	X	X	X
Component 2	O	O	O	X	X	X
PC	O	O	O	X	X	X

OPERATION

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

Press the **TV/VIDEO(PIP)** button repeatedly to cycle through all of the available signal sources: "TV", "AV", "S-Video", "Component 1", "Component 2" and "PC".

◀If you select "TV",
the PIP image is the same as
the main image.

* You can change the PIP Screen according to the Main Source. (See the PIP Settings on page 29.)

Swapping the Contents of the PIP and Main image

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

Changing the PIP Channel

Press the PIP **CH** ∧/∨ button to change the channel
that appears in the PIP window.

Changing the Location of the PIP Window

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

Changing the Size of the PIP Window

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

• When the PC is in energy saving mode, you cannot choose the PIP option.

• Press the 🔘 button once more to deselect PIP mode.

• You may notice that the picture in the PIP window becomes slightly unnatural when you set the main screen to game or karaoke mode. Switch the main screen and the PIP window for normal viewing.

• You can adjust picture position only by using the ⬛ size menu.

English-**30**

OPERATION

Changing the Screen Size

1

Press the **ASPECT** button to change the screen size.
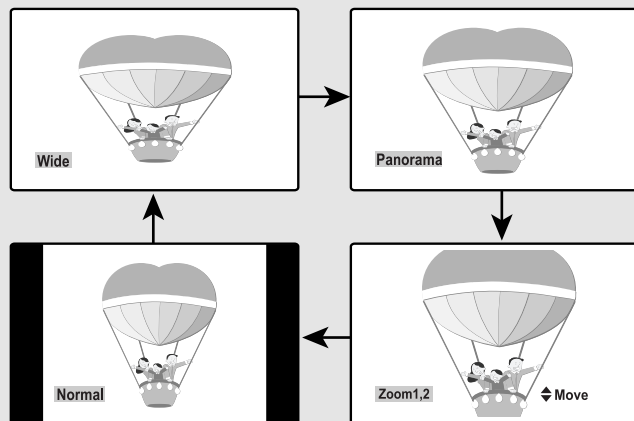
- Wide: Sets the picture to 16:9 wide mode.
- Panorama : Use this mode for the wide aspect ratio of a panoramic picture.
- Zoom 1,2 : Magnifies the size of the picture on screen.
- Normal: Sets the picture to 4:3 normal mode.
  This is the standard TV screen size.

Freezing the Picture

1

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

OPERATION

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	Picture Mode	: Dynamic ▶
	Custom Picture	▶
Picture	Color Tone	: Standard ▶
Sound	Size	: Wide ▶
	PIP	▶
Channel		
Setup		
‡ Move	⊡ Enter	▥ Return
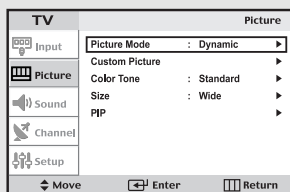
2
Press the **UP/DOWN** ▲▼ buttons to select "Color Tone", then press the **ENTER**⊡ button.

TV		Picture
Input	Picture Mode	: Dynamic ▶
	Custom Picture	▶
Picture	Color Tone	: Standard ▶
Sound	Size	: Wide ▶
	PIP	▶
Channel		
Setup		
‡ Move	⊡ Enter	▥ Return

3
Press the **UP/DOWN** ▲▼ buttons to select Color Tone.

Press the **MENU** button to exit.

TV		Picture
Input	Picture Mode	: Dynamic
	Custom Picture	
Picture	Color Tone	: Cool2
Sound	Size	: Cool1
	PIP	Standard
Channel		Warm1
Setup		Warm2
‡ Move	⊡ Enter	▥ Return

◀ You can select
"Cool 2", "Cool 1", "Standard", "Warm 1", "Warm 2" color tones according to personal preference.

English-**32**

For 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.

TV		Sound
Input	Sound Mode	: Custom ▶
Picture	Custom Sound	▶
Sound	WOW	: Off ▶
Channel	Auto Volume	: Off ▶
Setup	MTS	: Stereo ▶
	Headphone	▶
	Sound Select	: Main ▶
‡ Move	Enter	Return

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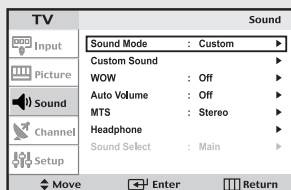
Press the **UP/DOWN ▲▼** buttons to select "Auto Volume", then press the **ENTER** button.

TV		Sound
Input	Sound Mode	: Custom ▶
Picture	Custom Sound	▶
Sound	WOW	: Off ▶
Channel	Auto Volume	: Off ▶
Setup	MTS	: Stereo ▶
	Headphone	▶
	Sound Select	: Main ▶
‡ Move	Enter	Return

3

Press the **UP/DOWN ▲▼** buttons to set Auto Volume "On".

Press the **MENU** button to exit.

TV		Sound
Input	Sound Mode	: Custom
Picture	Custom Sound	
Sound	WOW	: Off
Channel	Auto Volume	: Off
Setup	MTS	: On
	Headphone	
	Sound Select	: Main
‡ Move	Enter	Return

To select the WOW option

Emphasizes mid- and low-range sounds or gives you a surround-sound experience.

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

Press the **UP/DOWN** ▲▼ buttons to select "Sound", then press the **ENTER** button.
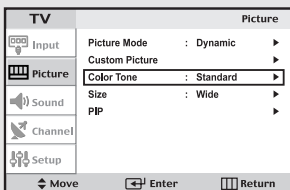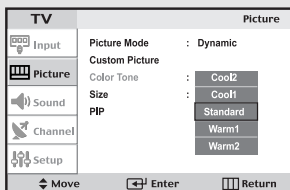
TV		Sound
Input	Sound Mode	: Custom ▶
Picture	Custom Sound	▶
Sound	WOW	: Off ▶
Channel	Auto Volume	: Off ▶
Setup	MTS	: Stereo ▶
	Headphone	▶
	Sound Select	: Main ▶

↕ Move   Enter   ▥ Return
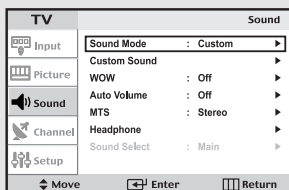
2
Press the **UP/DOWN** ▲▼ buttons to select "WOW", then press the **ENTER** button.

TV		Sound
Input	Sound Mode	: Custom ▶
Picture	Custom Sound	▶
Sound	WOW	: Off ▶
Channel	Auto Volume	: Off ▶
Setup	MTS	: Stereo ▶
	Headphone	▶
	Sound Select	: Main ▶

↕ Move   Enter   ▥ Return

3
Press the **UP/DOWN** ▲▼ buttons to set WOW "On".

Press the **MENU** button to exit.

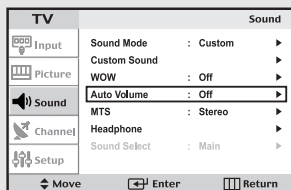| TV		Sound
Input	Sound Mode	: Custom
Picture	Custom Sound	
Sound	WOW	: Off
Channel	Auto Volume	: On
Setup	MTS	: Stereo
	Headphone	
	Sound Select	: Main

↕ Move   Enter   ▥ Return

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Or
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WOW technology is incorporated under license from SRS labs, Inc.

OPERATION

Special Sound Options

Choosing a Multi-Channel Sound (MTS) Soundtrack

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

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

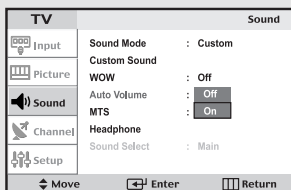Press the **UP/DOWN ▲▼** buttons to select "Sound", then press the **ENTER**⏎ button.

TV		Sound
Input	Sound Mode	: Custom ▶
Picture	Custom Sound	▶
	WOW	: Off ▶
Sound	Auto Volume	: Off ▶
Channel	MTS	: Stereo ▶
Setup	Headphone	▶
	Sound Select	: Main ▶

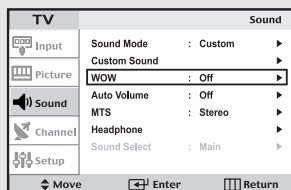◆ Move   ◄► Enter   ▯▯ Return
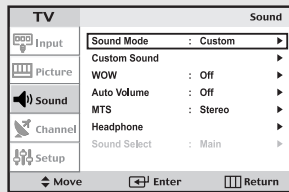
2
Press the **UP/DOWN ▲▼** buttons to select "MTS", then press the **ENTER**⏎ button.

TV		Sound
Input	Sound Mode	: Custom ▶
Picture	Custom Sound	▶
	WOW	: Off ▶
Sound	Auto Volume	: Off ▶
Channel	MTS	: Stereo ▶
Setup	Headphone	▶
	Sound Select	: Main ▶

◆ Move   ◄► Enter   ▯▯ Return

3
Press the **UP/DOWN ▲▼** buttons to select "Mono", "Stereo" or "SAP", then press the **ENTER**⏎ button.

TV		Sound
Input	Sound Mode	: Custom
Picture	Custom Sound	
	WOW	: Off
Sound	Auto Volume	: Off
Channel	MTS	: Mono / Stereo / SAP
Setup	Headphone	
	Sound Select	: Main

◆ Move   ◄► Enter   ▯▯ Return

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

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

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

O<small>PERATION</small>

Selecting the Main or Sub Sound

You can select either Main or Sub when PIP is On.

1

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

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

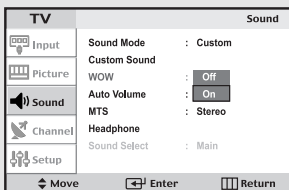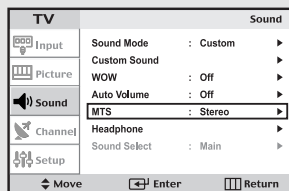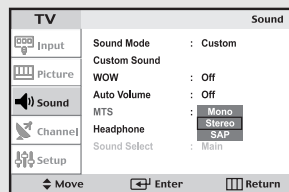| TV		Sound
Input	Sound Mode : Custom ▶	
	Custom Sound ▶	
Picture	WOW : Off ▶	
	Auto Volume : Off ▶	
Sound	MTS : Stereo ▶	
Channel	Headphone ▶	
Setup	Sound Select : Main ▶	
◆ Move	Enter	Return

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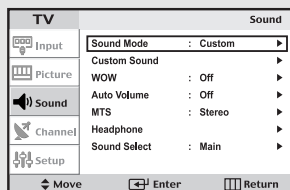
Press the **UP/DOWN ▲▼** buttons to select "Sound Select", then press the **ENTER** button.

TV		Sound
Input	Sound Mode : Custom ▶	
	Custom Sound ▶	
Picture	WOW : Off ▶	
	Auto Volume : Off ▶	
Sound	MTS : Stereo ▶	
Channel	Headphone ▶	
Setup	Sound Select : Main ▶	
◆ Move	Enter	Return

3

Press the **ENTER** button to select "Main" or "Sub".

Select "Main" to hear the main TV sound and select "Sub" to hear the PIP window sound.

Press the **MENU** button to exit.

TV		Sound
Input	Sound Mode : Custom	
	Custom Sound	
Picture	WOW : Off	
	Auto Volume : Off	
Sound	MTS : Stereo	
Channel	Headphone	
Setup	Sound Select Main	
	Sub	
◆ Move	Enter	Return
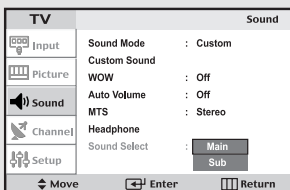
◀ Note : Sound Select can also be used to select the Main or Sub sound over the speakers.

English-**36**

OPERATION

Adjusting the Headphone Sound

The headphone option is especially useful when simultaneously watching the main screen and the PIP window.
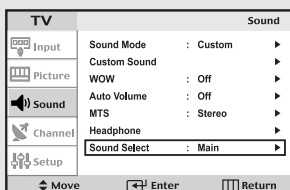
1

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

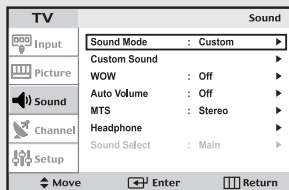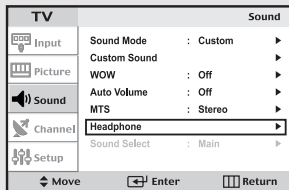Press the **UP/DOWN ▲▼** buttons to select "Sound", then press the **ENTER** button.

◀Note : Headphones must be purchased separately.

TV		Sound
Input	Sound Mode	: Custom ▶
Picture	Custom Sound	▶
	WOW	: Off ▶
Sound	Auto Volume	: Off ▶
Channel	MTS	: Stereo ▶
	Headphone	▶
Setup	Sound Select	: Main ▶
◆ Move	◀┘ Enter	⫞⫞⫞ Return

2

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

TV		Sound
Input	Sound Mode	: Custom ▶
	Custom Sound	▶
Picture	WOW	: Off ▶
Sound	Auto Volume	: Off ▶
	MTS	: Stereo ▶
Channel	Headphone	▶
Setup	Sound Select	: Main ▶
◆ Move	◀┘ Enter	⫞⫞⫞ Return

3

Press the **UP/DOWN ▲▼** buttons, then press the **ENTER** button to select the particular item to be changed.
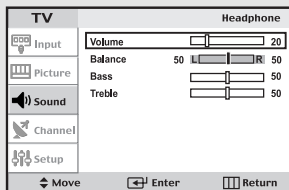
TV		Headphone
Input	Volume	20
Picture	Balance	50 L R 50
Sound	Bass	50
	Treble	50
Channel		
Setup		
◆ Move	◀┘ Enter	⫞⫞⫞ Return

4

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

TV		Headphone
Input	Volume	20
Picture	Balance	50 L R 50
Sound	Bass	50
	Treble	50
Channel		
Setup		
◆ Move	◀┘ Enter	⫞⫞⫞ Return

English-**37**
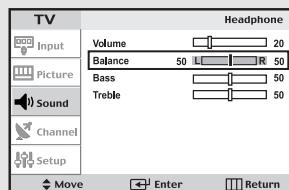
OPERATION

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.)

1

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

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

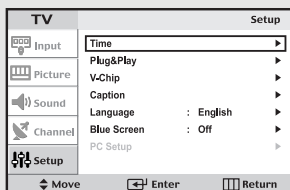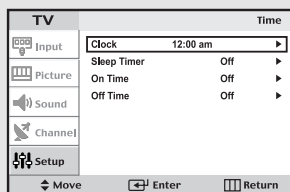| TV		Setup
Input	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
Channel	Language : English	▶
	Blue Screen : Off	▶
Setup	PC Setup	▶
◆ Move	← Enter	▥ Return

2

Press the **ENTER**
button to select
"Time" and press the
ENTER button to
select "Clock".

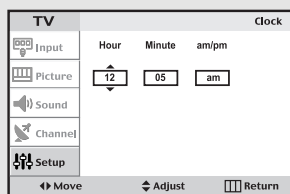| TV		Time
Input	Clock 12:00 am	▶
Picture	Sleep Timer Off	▶
	On Time Off	▶
Sound	Off Time Off	▶
Channel		
Setup		
◆ Move	← Enter	▥ Return

3

Press the
UP/DOWN ▲▼ buttons
repeatedly until the
correct hour appears.

Press the
LEFT/RIGHT◀▶ buttons
to select "Minute".

Press the
UP/DOWN ▲▼ buttons
until the correct minute
appears.
Press the
LEFT/RIGHT◀▶ buttons
to select am/pm and
adjust with the
UP/DOWN ▲▼ buttons.
Press the **MENU** button
to Exit.

TV			Clock
Input	Hour	Minute	am/pm
Picture			
	12	05	am
Sound			
Channel			
Setup			
◆▶ Move		◆ Adjust	▥ Return

◀Note : You can also set the time
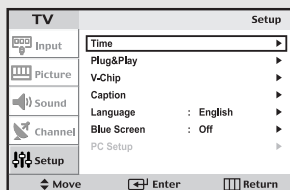using the numeric buttons
on the remote.

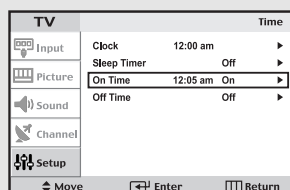English-**38**

Setting the On/Off Timer

1

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

Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER** button twice.
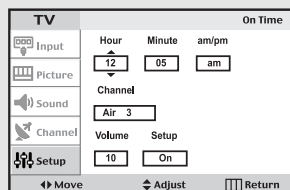
TV		Setup
Input	Time	▶
Picture	Plug&Play	▶
Sound	V-Chip	▶
	Caption	▶
Channel	Language : English	▶
Setup	Blue Screen : Off	▶
	PC Setup	▶

◆ Move   ⏎ Enter   ▯ Return

⏶ Before using the timer, you must set the TV's clock.
(See "Setting the Clock" on page 38)

2

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

TV			Time
Input	Clock	12:00 am	▶
Picture	Sleep Timer	Off	▶
Sound	On Time	12:05 am On	▶
	Off Time	Off	▶
Channel			
Setup			

◆ Move   ⏎ Enter   ▯ Return

⏶ When you set the hours, make sure the correct time of day (am or pm) appears to the right of the time.

3

Press the **UP/DOWN ▲▼** buttons repeatedly to select the appropriate hour.

Press the **LEFT/RIGHT ◀▶** buttons repeatedly to select the appropriate minute (i.e., the time when the TV will turn on).

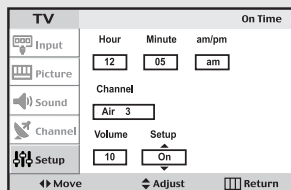| TV			On Time
Input	Hour	Minute	am/pm
	▲		
Picture	12	05	am
	▼		
Sound	Channel		
	Air 3		
Channel	Volume	Setup	
Setup	10	On	

◀▶ Move   ◆ Adjust   ▯ Return

O**PERATION**

4

Press the
LEFT/RIGHT ◀▶
buttons to select Setup.

Press the
UP/DOWN ▲▼ buttons
to on-timer "On".
(Repeatedly pressing
the **UP/DOWN ▲▼**
buttons will alternate
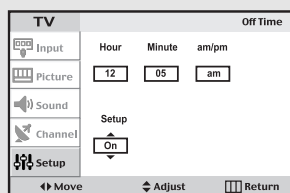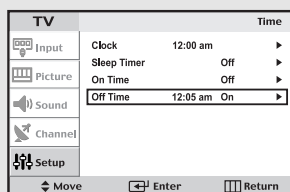between On and Off.)

When finished, press the
ENTER button.

```
┌──────────────────────────────────┐
│ TV                        On Time │
│                                   │
│  Input    Hour   Minute   am/pm   │
│  Picture  [12]   [05]    [am]     │
│  Sound    Channel                 │
│           [Air  3]                │
│  Channel  Volume    Setup         │
│  Setup    [10]    [ On ]          │
│                                   │
│  ◀▶ Move      ⬍ Adjust   ▥ Return │
└──────────────────────────────────┘
```

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

5

To set the Off time,
press the **UP/DOWN ▲▼**
buttons to select
"Off time".

Press the **ENTER**
button and set the hours
and minutes. (Follow the
same procedure as in
steps 1~4 above.)

```
┌──────────────────────────────────┐
│ TV                           Time │
│                                   │
│  Input    Clock       12:00 am  ▶ │
│  Picture  Sleep Timer     Off   ▶ │
│           On Time         Off   ▶ │
│  Sound    Off Time    12:05 am On▶│
│  Channel                          │
│  Setup                            │
│  ⬍ Move       ⏎ Enter    ▥ Return │
└──────────────────────────────────┘
```

```
┌──────────────────────────────────┐
│ TV                       Off Time │
│                                   │
│  Input    Hour   Minute   am/pm   │
│  Picture  [12]   [05]    [am]     │
│  Sound                            │
│           Setup                   │
│  Channel  [ On ]                  │
│  Setup                            │
│                                   │
│  ◀▶ Move      ⬍ Adjust   ▥ Return │
└──────────────────────────────────┘
```

6

When finished setting the timer, press the **MENU**
button to exit.

• **Auto Power Off**

When you set the timer on, your television will be turned
off if you do not operate any controls for 3 hours after
the TV has been turned on with the 'Timer On' function.
'Auto power off' operates only when the TV has been
turned on by the 'Timer on' function.

English-**40**

OPERATION

Setting the Sleep Timer

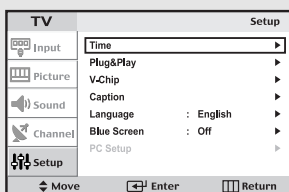Set the timer for the TV to turn off at the preset time automatically.

Setting the On/Off Timer Using the Menu
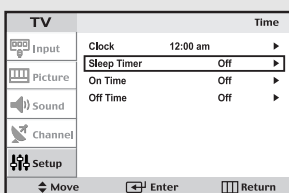
1
Press the **MENU** button to display the on-screen menu.

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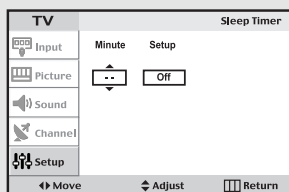
Press the **ENTER** button to select "Time".

TV		Setup
Input	Time	▶
Picture	Plug&Play	▶
Sound	V-Chip	▶
	Caption	▶
Channel	Language : English	▶
	Blue Screen : Off	▶
Setup	PC Setup	▶
⬍ Move	⏎ Enter	▥ Return

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

TV		Time
Input	Clock 12:00 am	▶
Picture	Sleep Timer Off	▶
	On Time Off	▶
Sound	Off Time Off	▶
Channel		
Setup		
⬍ Move	⏎ Enter	▥ Return

3
Press the **UP/DOWN ▲▼** buttons repeatedly until the correct time appears.

TV		Sleep Timer
Input	Minute Setup	
Picture	⏫ Off	
Sound	⏬	
Channel		
Setup		
◀▶ Move	⬍ Adjust	▥ Return

- **Easy Way to Set the Sleep Timer**
  Press the SLEEP button on the remote.
  The number on the screen changes from
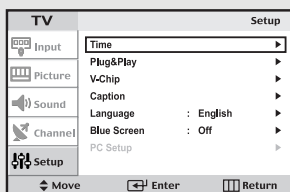 Off • 30 • 60 • 90 • 120 • 150 • 180 • Off

English-**41**

Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: [CC] .
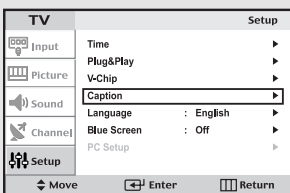
1
Press the **MENU** button to display the on-screen menu.

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

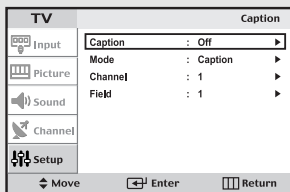| TV		Setup
Input	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
Channel	Language : English	▶
	Blue Screen : Off	▶
Setup	PC Setup	▶
♦ Move	↵ Enter	Return

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

TV		Setup
Input	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
Channel	Language : English	▶
	Blue Screen : Off	▶
Setup	PC Setup	▶
♦ Move	↵ Enter	Return

3
Press the **ENTER** button to select "Off".

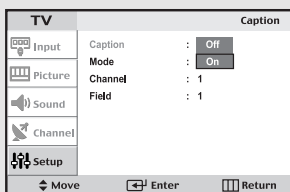| TV		Caption
Input	Caption : Off	▶
Picture	Mode : Caption	▶
Sound	Channel : 1	▶
Channel	Field : 1	▶
Setup		
♦ Move	↵ Enter	Return

4
Press the **UP/DOWN ▲▼** buttons to set caption "On/Off", then press the **ENTER** button.

Press the **MENU** button to exit.

TV		Caption
Input	Caption : Off	
Picture	Mode : On	
Sound	Channel : 1	
Channel	Field : 1	
Setup		
♦ Move	↵ Enter	Return

5
Depending on the particular broadcast, it might be necessary to make changes to "Channel" and "Filed":
Press the **MENU** button to exit the menu.

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

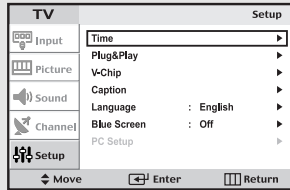English-**42**

OPERATION

Using the V-Chip

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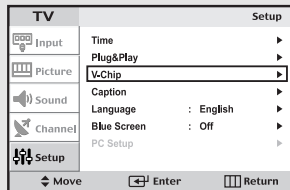
Setting Up Your Personal ID Number (PIN)

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

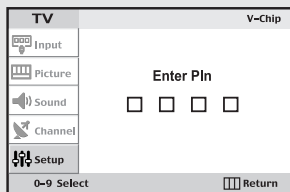Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

TV		Setup
Input	Time	►
Picture	Plug&Play	►
Sound	V-Chip	►
Channel	Caption	►
Setup	Language : English	►
	Blue Screen : Off	►
	PC Setup	►
◆ Move	↵ Enter	⊞ Return

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

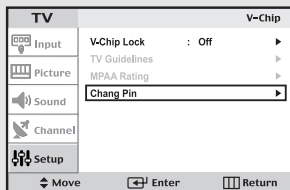| TV		Setup
Input	Time	►
Picture	Plug&Play	►
Sound	V-Chip	►
Channel	Caption	►
Setup	Language : English	►
	Blue Screen : Off	►
	PC Setup	►
◆ Move	↵ Enter	⊞ Return

3
The "Enter Pin" screen will appear. Enter your 4-digit Pin number. Note: The default Pin number for a new TV set is "**0-0-0-0.**"

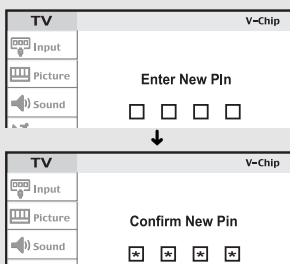| TV	V-Chip
Input	
Picture	Enter Pin
Sound	☐ ☐ ☐ ☐
Channel	
Setup	
0~9 Select	⊞ Return

4
After entering a valid PIN number, the "V-Chip" screen will appear. Press the **UP/DOWN** ▲▼ buttons to select "Change Pin."

TV	V-Chip
Input	V-Chip Lock : Off ►
Picture	TV Guidelines ►
Sound	MPAA Rating ►
Channel	Chang Pin ►
Setup	
◆ Move	↵ Enter ⊞ Return

5
Press the **ENTER** button.
The Change pin screen will appear. Choose any 4-digits for your Pin and enter them.

TV	V-Chip
Input	
Picture	Enter New Pin
Sound	☐ ☐ ☐ ☐

↓

TV	V-Chip
Input	
Picture	Confirm New Pin
Sound	✳ ✳ ✳ ✳

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 **MENU** button to exit.

◄Note: If you forget the Pin, press the remote-control buttons in the following sequence,which resets the pin to 0-0-0-0:
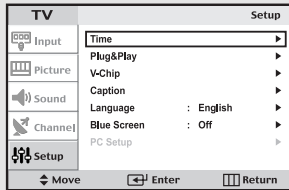POWER OFF ➔ MUTE ➔ 8 ➔ 2 ➔ 4 ➔ POWER ON.

OPERATION

How to Enable/Disable the V-Chip

Note: V-Chip cannot be used during PIP operation.

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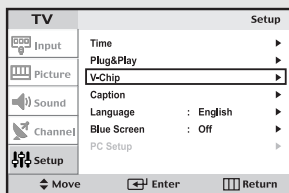Press the **MENU** button to display the menu.

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

TV		Setup
Input	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
Channel	Language : English	▶
	Blue Screen : Off	▶
Setup	PC Setup	▶

♦ Move   ◄┘ Enter   ▥ Return

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

TV		Setup
Input	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
Channel	Language : English	▶
	Blue Screen : Off	▶
Setup	PC Setup	▶

♦ Move   ◄┘ Enter   ▥ Return

3
The "Enter Pin" screen will appear. Enter your 4-digit Pin number.

TV	V-Chip
Input	
Picture	Enter Pin
Sound	□ □ □ □
Channel	
Setup	

0~9 Select   ▥ Return

4
The "V-Chip" screen will appear, and "V-Chip Lock" will be select.

To enable the V-Chip feature, press the **ENTER** button so that the "V-Chip Lock" is set to Yes. (Pressing the **UP/DOWN ▲▼** buttons will alternate between On and Off.)

TV		V-Chip
Input	V-Chip Lock : Off	▶
Picture	TV Guidelines	▶
	MPAA Rating	▶
Sound	Chang Pin	▶
Channel	
Setup	

♦ Move   ◄┘ Enter   ▥ Return
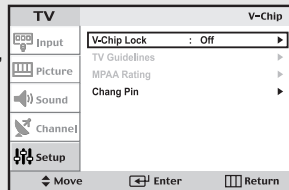
How to Set up Restrictions Using the 'TV guidelines'

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

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

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

TV		Setup
Input	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
Channel	Language : English	▶
	Blue Screen : Off	▶
Setup	PC Setup	▶

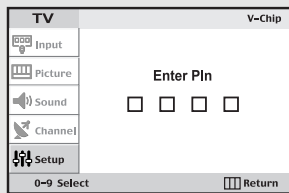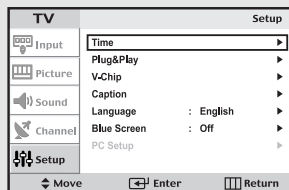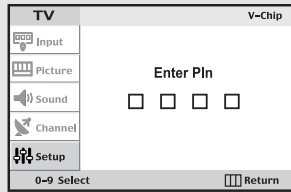♦ Move   ◄┘ Enter   ▥ Return

English-**44**

OPERATION

2

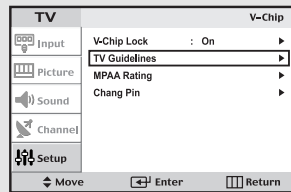Press the
UP/DOWN ▲▼ buttons
to select "V-chip", then
press the **ENTER**
button.

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

TV	V-Chip
Input	
Picture	Enter PIn
Sound	□ □ □ □
Channel	
Setup	
0~9 Select	Return

3

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

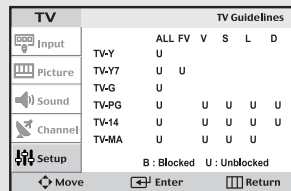| TV	V-Chip
Input	V-Chip Lock : On ▶
Picture	TV Guidelines ▶
Sound	MPAA Rating ▶
Channel	Chang Pin ▶
Setup	
Move	Enter Return

4

The "TV guidelines"
screen will appear.
Press the the **UP/DOWN**
▲▼ buttons to select
one of the six age-based
categories:

TV-Y   Young children
TV-Y7   Children 7 and over

TV-G   General audience
TV-PG   Parental guidance
TV-14   Viewers 14 and over
TV-MA   Mature audience

TV			TV Guidelines			
	ALL	FV	V	S	L	D
Input						
TV-Y	U					
Picture						
TV-Y7	U	U				
TV-G	U					
Sound						
TV-PG	U		U	U	U	U
TV-14	U		U	U	U	U
Channel						
TV-MA	U		U	U	U	
Setup						
	B : Blocked U : Unblocked					
Move	Enter				Return	

◀Note: These categories consist of
two separate groups : TV-Y and
TV-Y7 (young children through
age 7), and TV-G through TV-MA
(everybody else).
The restrictions for these two
groups work independently:
If a household includes very young
children as well as young adults,
the TV guidelines must be set up
separately for each age group.
(See next step.)

5

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

Press the **ENTER( )**button: Depending on your existing setup, the color of the letter "U" or "B"
will be highlighted. (U= Unblocked, B= Blocked)

When the color of the "U" or "B" is highlighted, press the **ENTER( )**button to block or unblock the category.

A TV-Rating will be highlighted.
To exit this screen, press the **MENU** again. To select a different TV-Rating, press the **UP/DOWN** ▲▼
buttons and then repeat the process.

Note 1: The TV-Y7, TV-PG, TV-14 and TV-MA have additional options.
          See the next step to change any of the following sub-ratings:
FV: **F**antasy **V**iolence
D: Sexual suggestive **D**ialog
L: Adult **L**anguage
S: **S**exual situation
V: **V**iolence
Note 2: The V-Chip will automatically block certain categories that are "more restrictive." For example,
          if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block
          the TV-G category, then all the categories in the "young adult" group will be blocked
          (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly.
   (See next section.)

English-**45**

6

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

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

A highlighted letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is
highlighted, press the **ENTER(⊡)**buttons to change the sub-rating.

Press **MENU** once to save the TV guidelines. A TV-Rating will be selected, and no letters
"U" or "B" will be changed to yellow.
To exit this screen, press the **MENU** button again. 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 three times to clear all the screens.
(Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

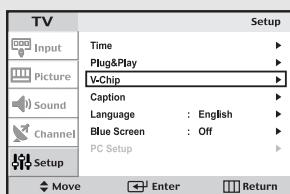### How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

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

1

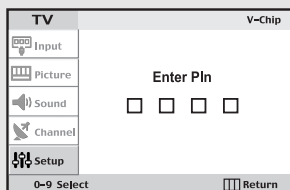Press the **MENU** button
to display the menu.

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

Press the
UP/DOWN ▲▼ buttons
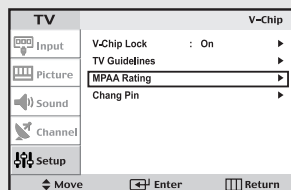to select "V-Chip", then
press the **ENTER** ⊡
button.

TV		Setup
Input	Time	▶
	Plug&Play	▶
Picture	V-Chip	▶
	Caption	▶
Sound	Language	: English ▶
	Blue Screen	: Off ▶
Channel	PC Setup	▶
Setup		
↕ Move	⊡ Enter	⫼ Return

2

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

TV	V-Chip
Input	
Picture	Enter Pin
Sound	☐ ☐ ☐ ☐
Channel	
Setup	
0~9 Select	⫼ Return

OPERATION

3
Press the
UP/DOWN ▲▼ buttons
to select "MPAA Rating",
then press the
ENTER ⊕ button.

TV		V-Chip
▤ Input	V-Chip Lock : On	▶
	TV Guidelines	▶
▥ Picture	MPAA Rating	▶
◀) Sound	Chang Pin	▶
⬃ Channel		
⬚ Setup		
♦ Move	⊕ Enter	▥ Return

4
Repeatedly press the
UP/DOWN ▲▼ buttons
to select a particular
MPAA category. (When
a category is selected,
its color changes to
yellow.) Pressing the
UP/DOWN ▲▼ buttons
will cycle through the
MPAA categories:

TV		MPAA Rating
▤ Input	G ▶	U
	PG ▶	U
▥ Picture	PG-13 ▶	U
	R ▶	U
◀) Sound	NC-17 ▶	U
⬃ Channel	X ▶	U
⬚ Setup	NR ▶	U
	B : Blocked	U : Unblocked
♦ Move	⊕ Enter	▥ Return
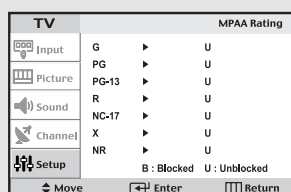
G	General audience (no restrictions).
PG	Parental guidance suggested.
PG-13	PG-13 (Parents strongly cautioned).
R	R (Restricted. Children under 17 should be accompanied by an adult).
NC-17	No children under age 17.
X	X (Adults only).
NR	Not rated.

Press the **UP/DOWN** ▲▼ buttons to select a category.

Press the **ENTER(⊕)** buttons to select "U" or "B".

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

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

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

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

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

Select the V-Chip on the Menu. Enter your PIN number, and press the **ENTER(⊕)** button to
temporarily disable the V-Chip Lock.

English-**47**

Chapter Five

PC DISPLAY

Using Your TV as a Computer (PC) Display

How to Set up Your PC Software (Windows only)

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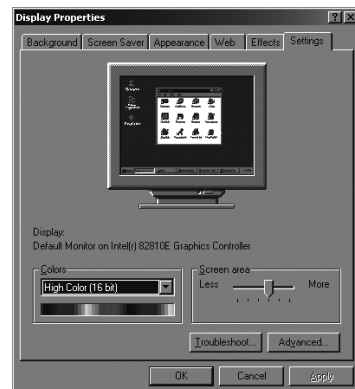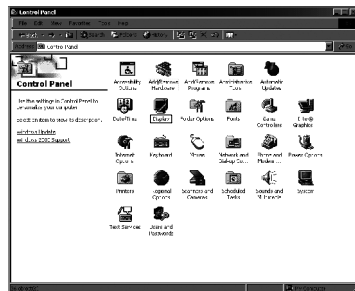(If not, contact your computer manufacturer or Samsung Dealer.)
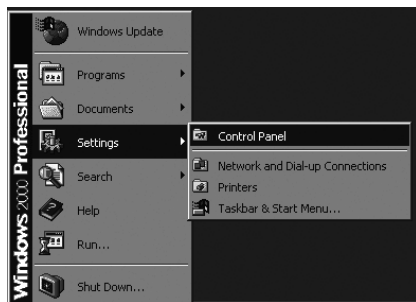
First, click on "Settings" on the Windows start menu.

While "Settings" is highlighted, move the cursor so that "Control Panel" is highlighted.

When the control panel screen appears, click on "Display" and a display dialog-box will appear.

Navigate to the "settings" tab on the display dialog-box.

The two key variables that apply the TV-PC interface are "resolution" and "colors." The correct settings for these two variables are:

* Size (sometimes called "resolution"): 1280 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 59.

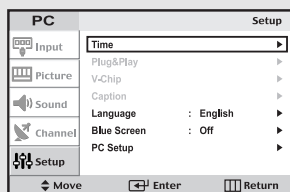# PC DISPLAY

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.

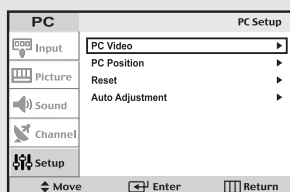Press the PC button on the remote control to select the PC mode.

1

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

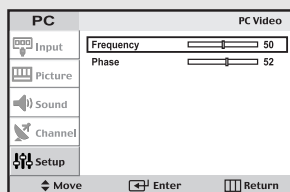Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER** button.

```
PC                              Setup
  Input      Time                    ▶
             Plug&Play               ▶
  Picture    V-Chip                  ▶
  Sound      Caption                 ▶
             Language    : English   ▶
  Channel    Blue Screen : Off       ▶
             PC Setup               ▶
  Setup
      Move        Enter        Return
```

2

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

```
PC                           PC Setup
  Input      PC Video             ▶
             PC Position          ▶
  Picture    Reset                ▶
  Sound      Auto Adjustment      ▶
  Channel
  Setup
      Move        Enter        Return
```
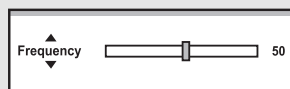
3

Press the **ENTER** button to select "PC Video". Press the **UP/DOWN ▲▼** buttons to select "Frequency" or "Phase".

```
PC                           PC Video
  Input      Frequency  ▭━▭ 50
             Phase      ▭━▭ 52
  Picture
  Sound
  Channel
  Setup
      Move        Enter        Return
```

4

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

```
        ▲
Frequency  ▭━▭▭   50
        ▼
```
<Adjusting Frequency>

```
        ▲
Phase   ▭━▭▭   52
        ▼
```
<Adjusting Phase>

5

When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.
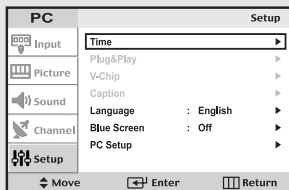
English-**49**

PC DISPLAY

Changing the Screen Position

Press the PC button on the remote control to select the PC mode.
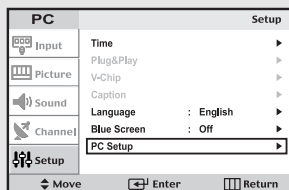
1
Press the **MENU** button to display the menu.

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

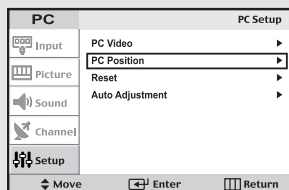| PC		Setup
Input	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
Channel	Language : English	▶
	Blue Screen : Off	▶
Setup	PC Setup	▶

‡ Move   Enter   Return

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

PC		Setup
Input	Time	▶
Picture	Plug&Play	▶
	V-Chip	▶
Sound	Caption	▶
Channel	Language : English	▶
	Blue Screen : Off	▶
Setup	PC Setup	▶

‡ Move   Enter   Return

3
Press the **UP/DOWN ▲▼** buttons to select "PC Position", then press the **ENTER** button.

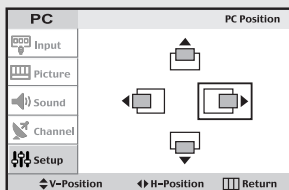| PC		PC Setup
Input	PC Video	▶
Picture	PC Position	▶
	Reset	▶
Sound	Auto Adjustment	▶
Channel		
Setup		

‡ Move   Enter   Return

4
Press the **UP/DOWN ▲▼** buttons to adjusting the V-Position.
Press the **LEFT/RIGHT ◀▶** buttons to adjusting the H-Position.

Press the **MENU** button to exit.

PC	PC Position
Input	
Picture	
Sound	
Channel	
Setup	

‡ V-Position   ◀▶ H-Position   Return

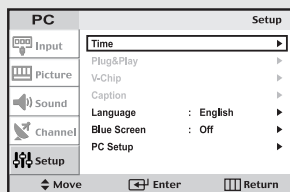English-**50**

PC DISPLAY

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
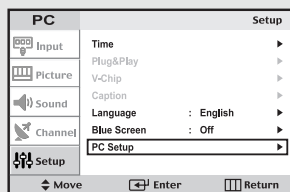adjusts the frequency values and positions.

1

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

Press the **DOWN ▼**
button to select
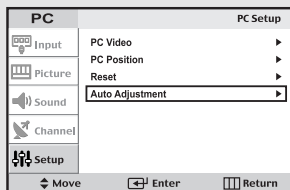"Setup", then press the
ENTER⏎ button.

PC		Setup
Input	Time	▶
	Plug&Play	▶
Picture	V-Chip	▶
Sound	Caption	▶
	Language : English	▶
Channel	Blue Screen : Off	▶
Setup	PC Setup	▶
	⬍ Move ⏎ Enter ▥ Return	

2

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

PC		Setup
Input	Time	▶
	Plug&Play	▶
Picture	V-Chip	▶
Sound	Caption	▶
	Language : English	▶
Channel	Blue Screen : Off	▶
Setup	PC Setup	▶
	⬍ Move ⏎ Enter ▥ Return	

3

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

PC		PC Setup
Input	PC Video	▶
Picture	PC Position	▶
	Reset	▶
Sound	Auto Adjustment	▶
Channel		
Setup		
	⬍ Move ⏎ Enter ▥ Return	

4

Press the **MENU** button
to exit.

Auto Adjustment

Chapter Six

TROUBLESHOOTING

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, 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 TV/VIDEO 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, DTV, 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.

TROUBLESHOOTING

Problem	Possible Solution
"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 Timing Chart.
The image is too light or too dark.	Adjust the Brightness and Contrast. Adjust the Fine function.
Horizontal bars appear to flicker, jitter or shimmer on the image.	Adjust the Coarse function and then adjust the Fine function.
Vertical bars appear to flicker, jitter or shimmer on the image.	Adjust the Coarse function and then adjust the Fine function.
Screen is black and power indicator light blinks steadily.	On your computer check: Power , Signal Cable(15-pin D-Sub) The TV is using its power management system. Move the computer's mouse or press a key on the keyboard.
Image is not stable and may appear to vibrate.	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: 30 kHz ~ 68 kHz • Vertical frequency: 56 Hz ~ 85 Hz • Maximum refresh rate: 1280 x 768 @ 60 Hz
Image is not centered on the screen.	Adjust the horizontal and vertical position.
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
(LTN1785W - 2,949,120 / LT-P1795W - 2,949,120) 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.

APPENDIX

How to assemble the TV set and stand base
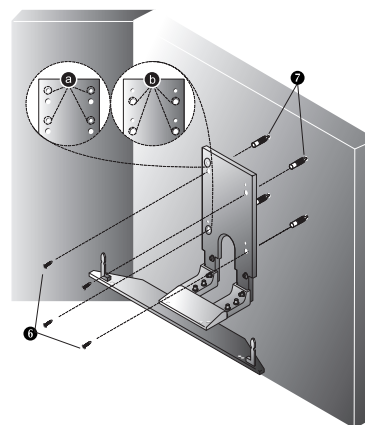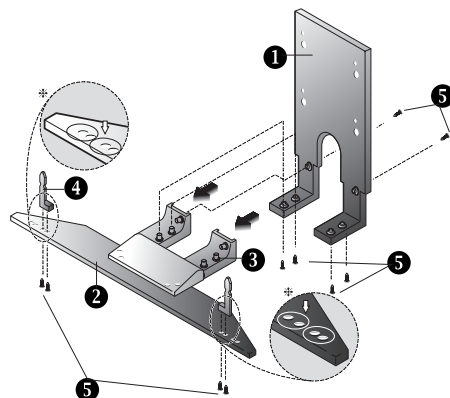
☞ Colors may vary depending on the model you purchase.
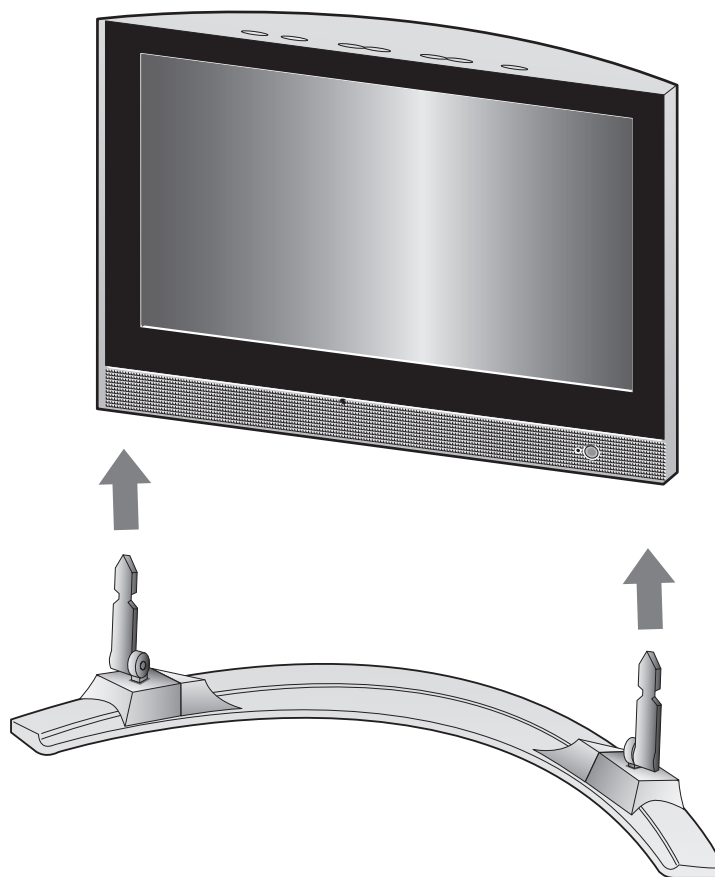
**NOTE : The curved side of the stand base should be placed
         at the back of the TV set as shown in the above figure.**

English-**54**

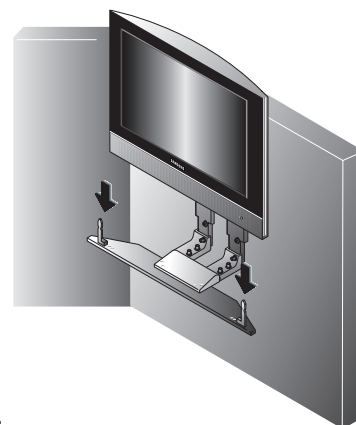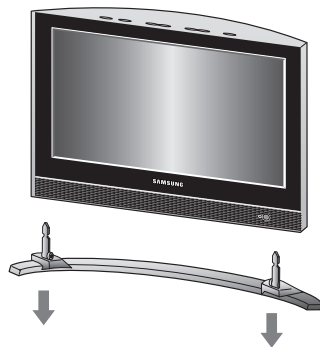**A**PPENDIX

Installing the Wall Mount Kit (sold separately)

This installation is to be used when attaching the wall mount to a concrete wall.
When attaching to other building materials, please contact your nearest dealer.

1 Connect the hinge to the wall mount bracket.
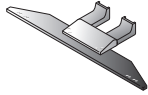
2 Secure the bracket to the wall.
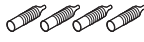
Use (a) holes to attach the VESA mount.
Use (b) holes to attach the wall mount.

3 Remove the base from the TV set.

4 Mount the TV on the wall mount bracket.

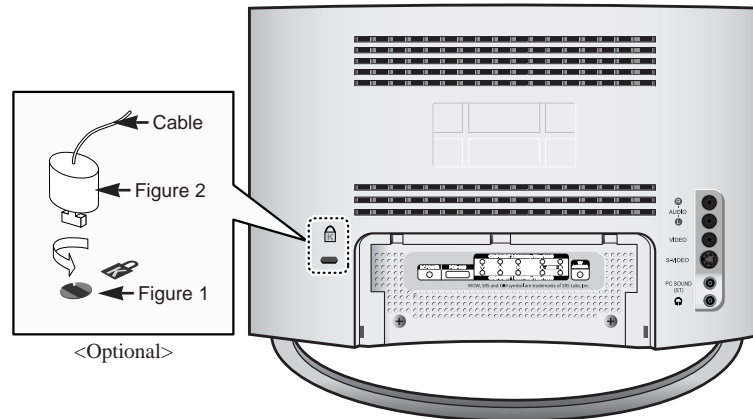☛ Colors may vary depending on the model you purchase.

❶ Holder-Wall : 1EA

❷ Holder-Ass'y : 1EA

❸ Rubber : 4EA

❹ Holder-LCD L/R : 2EA

❺ Screw FH 4 x 8 : 10EA

❻ Screw BH 4 x 25 : 4EA

❼ Anchor : 4EA

#The wall mount bracket is sold separately.

English-55

Using the Anti-Theft Kensington Lock

Cable

Figure 2

Figure 1

<Optional>

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.

Retractable Stand

Note: The maximum tilt angle is 10 degrees in the backward direction.
      Please do not tilt the TV outside the specified range. Using excessive force
      to tilt the TV may cause permanent damage to the mechanical part of the stand.

☛ Colors may vary depending on the model you purchase.

0~10°

English-56
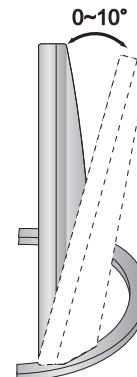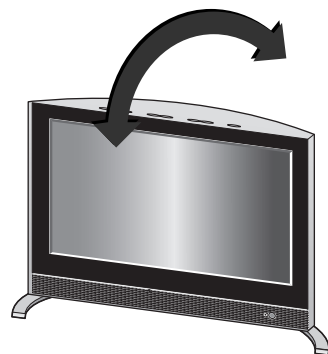
APPENDIX

Cleaning and Maintaining Your TV

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

Placement

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

Liquids

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

Cabinet

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

Temperature

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

Using Your TV in Another Country

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

APPENDIX

Specifications

Model Name		LTN1785W / LT-P1795W
Panel	Size Display Size Type Pixel Pitch Viewing Angle	17.0 inch Diagonal 14.58(H) X 8.75(V) inch a-si TFT active matrix 0.01139(H) X 0.01139(V) inch 170/170 (H/V)
*Frequency	Horizontal Vertical Display Color	30 ~ 68 kHz 56 ~ 85 Hz 16,777,216 colors
Display Resolution	Maximum Mode	1280 X 768 @ 60 Hz
Input Signal	Sync. Video signal	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75 ohm
Video	Color system Video system	NTSC CVBS, S-VHS, RGB
Component	Video In Audio In	1.0 Vp-p @ 75 ohm 500mVrms
Power Supply	Input Output	AC 100 ~ 240 V (50/60Hz), DC 14V / 4.5A
Power Consumption	Maximum Power Saving	70 W < 3 W
Dimensions / Weight	Unit (WxDxH): body With stand	18.26 x 3.45 x 13.60 inch / 9.7 lbs (463.8 x 87.7 x 345.0 mm / 4.4 kg) 18.26 x 7.05 x 14.32 inch / 10.4 lbs (463.8 x 179.0 x 363.7 mm / 4.72 kg)
Environmental Considerations	Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50 °F to 104 °F (10 °C to 40 °C) 10% to 80% -13 °F to 113 °F (-25 °C to 45 °C) 5% to 95%
Audio Characteristics	Audio Input 1 Audio Input 2 Headphone out Frequency Response	RCA Jack Red(R) White(L), 0.5Vrms (-9dB) 3.5ø Stereo Jack, 0.5Vrms (-9dB) Max. 10mW Output (3.5ø Stereo Jack 32) RF: 80Hz ~ 15KHz (at- 3dB) A/V: 80Hz ~ 20KHz (at - 3dB)

APPENDIX

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)
Macintosh	640 X 480	35.000	66.667	30.240	- / -
	832 X 624	49.726	74.551	49.500	+ / +
IBM	640 X 480	31.496	59.940	25.175	- / -
	720 X 400	31.469	70.087	28.322	- / -
VESA	640 X 480	37.861	72.809	31.500	- / -
	640 X 480	37.500	75.000	31.500	- / -
	640 X 480	43.269	85.008	36.000	- / -
	800 X 600	35.156	56.250	36.000	+ / -
	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	53.674	85.061	56.250	- / -
	1024 X 768	48.363	60.004	65.000	- / -
	1024 X 768	56.476	70.069	75.000	- / -
	1024 X 768	60.023	75.029	78.750	+ / +
	1024 X 768	68.677	84.997	94.500	+ / +
GTF	1280 X 768	47.700	60.000	80.136	- / +

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