

ST43T7P / ST43T8HR ST54T8HR / ST62T8HR ST47W3HR / ST55W3HR ST65W3HR

PROJECTION TELEVISION



Owner's Instructions

Warning! Important Safety Instructions



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



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



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

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

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

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

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

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

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

Thank You for Choosing Samsung

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

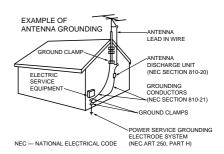
Important Safety Information

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



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

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



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

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 (CRTs) 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 CRT aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.

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Chapter One

Your New TV

List of Features

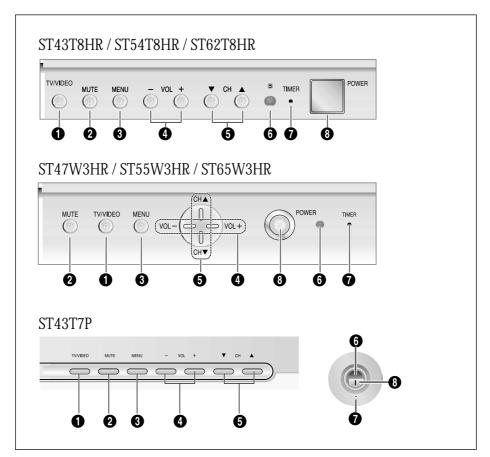
Your Samsung TV was designed with the latest technology. This TV is a high-performance unit that includes the following special features:

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

Familiarizing Yourself with The TV

Front Panel Buttons

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



TV/VIDEO

All the inputs connected to the external component jacks will be shown in regular sequence.

2 MUTE

Press to temporarily cut off the sound.

3 MENU

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

4 VOL -, +

Press to increase or decrease the volume.

Also used to select items on the on-screen menu.

6 CH▼ and CH▲

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

Remote Control Sensor

Aim the remote control towards this spot on the TV.

Timer indicator

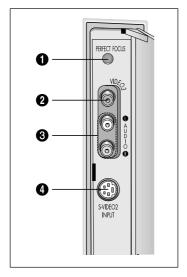
When the TV is turned on, the Timer indicator blinks about ten times. This indicator illuminates when the Timer mode is set to the "On" position after setting the clock and either the On timer or Off timer, with the remote control. Even if the power is turned off, this indicator stays lit. (Clock must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

O POWER

Press to turn the TV on and off.

Side Panel Jacks

You can use the side panel jacks to connect an A/V component that is used only occasionally, such as a camcorder or video game. (For information on connecting equipment, see pages 14-21.)



1 PERFECT FOCUS

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

Q VIDEO INPUT jack

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

3 AUDIO INPUT jacks

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

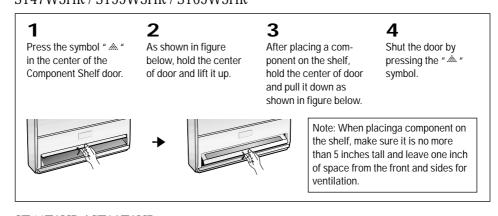
4 S-VIDEO INPUT jack

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

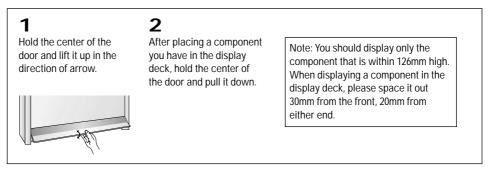
Using the Component Shelf

You can place a VCR, a DVD player, etc. on the Component Shelf.

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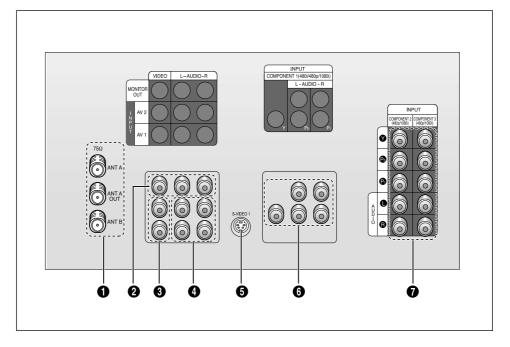


Rear Panel Jacks

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

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

For more information on connecting equipment, see pages 14-21.



ANTENNA terminals

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

2 AUDIO-VIDEO MONITOR OUTPUT jacks

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

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

3 VIDEO INPUT jacks

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

4 AUDIO INPUT jacks

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

6 S-VIDEO INPUT jack

Connect to an S-VHS VCR or DVD player.

6 COMPONENT 1(480i, 480p, 1080i) AUDIO/VIDEO INPUT jacks

Connect a source that outputs 480i/480p/1080i Y,P_B and P_R signals, such as a DVD (or DTV SetTop Box.

© COMPONENT 2, 3(480p, 1080i) AUDIO/VIDEO INPUT jacks

Connect a source that outputs 480p/1080i Y, P_B and P_R signals, such as a DTV Set-Top Box.

Your New TV

Remote Control

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

You can also use your remote control to operate your VCR and cable box. See page 59 for details.

O Power

Turns the TV on and off.

2 +100

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

Still(Main)

Press to stop the action during a particular scene. Press again to resume normal video.

CH ∨ and CH ∧ (Channel Up/Down) CH ∨ and CH ∧ (Channel Up/Down)

Press CH ✓ or CH ˆ to change channels.

VOL -, VOL +

Press increase or decrease the volume.

Sleep

Press to select a preset time interval for automatic shutoff.

O Display

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

Aspect

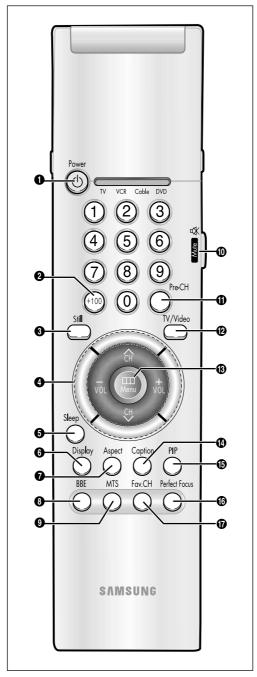
Press to change the screen size.

8 BBE

BBE is a built-in effect that adds clarity, punch and dynamics to the sound.

MTS (Multichannel Television Sound)

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



Mute

Press to temporarily cut off the sound.

1 Pre-CH

Tunes to the previous channel.

② TV/Video

All the inputs connected to the external component jacks will be shown in regular sequence.

Menu

Displays the main on-screen menu.

Caption

Controls the caption decoder.

(B) PIP

Activates picture in picture.

6 Perfect Focus

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

Fav. CH (Favorite Channel)

Press to switch between your favorite channels.

YOUR NEW TV

Remote Control (continued)

(B) ANT A/B

Press to select the ANT A or ANT B

R.surf

Press to automatically return to a preferred channel after a user-preset time delay.

S.Mode

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

② P.Mode

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

WCR controls

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

PIP Controls

Source

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

Scan

Press to memorize (scan) the available channels.

Locate

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

Swap

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

Size

Press to make the PIP window large, small or stock ticker.

CH

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



Mode

Selects a target device to be controlled by the Samsung remote control(i.e., TV, VCR, Cable box or DVD).

Set

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

V.Chip

Press to set up and activate the parental locks. (Not available)

Add/Erase

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

Chapter Two

Installation

Connecting VHF and UHF Antennas

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



If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads," on page 15.

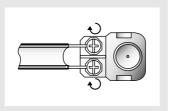


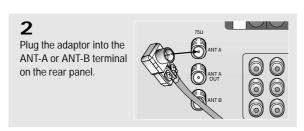
If you have two antennas, see "Separate VHF and UHF Antennas," on page 15.

Antennas with 300-ohm Flat Twin Leads

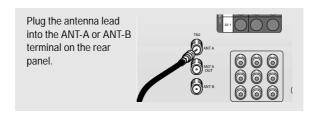
If you are using an off-air antenna (such as a roof antenna or "rabbit ears") that has 300-ohm twin flat leads, follow the directions below.

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



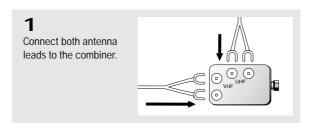


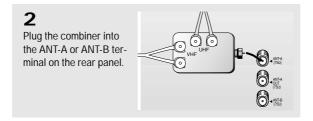
Antennas with 75-ohm Round Leads



Separate VHF and UHF Antennas

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



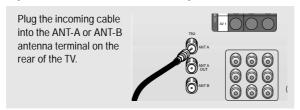


Connecting Cable TV

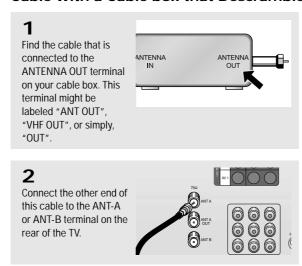
You can connect different cable systems to your TV, including cable without a cable box, and cable with a cable box that descrambles some or all channels.

Cable without a Cable Box

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

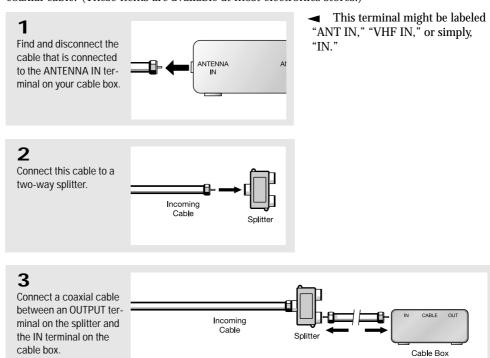


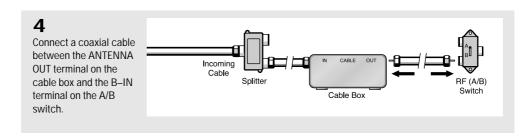
Cable with a Cable box that Descrambles All Channels

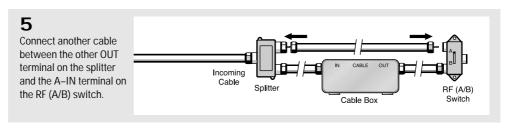


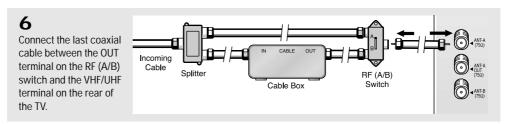
Connecting to a Cable Box that Descrambles Some Channels

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









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

Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 14-16). Skip step 1 if you have not yet connected to an antenna or a cable system.

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

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

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

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

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

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

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

TV Rear Panel O ANTA 000 S-Video Cable Coaxial Cable VCR Rear Panel

Connecting a Second VCR to Record from the TV

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

1

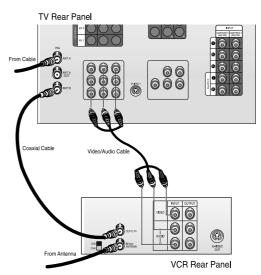
Connect a set of audio cables between the AUDIO OUT jacks on the TV and the AUDIO IN jacks on the VCR.

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

2

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

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



Connecting a Camcorder

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

1

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

2

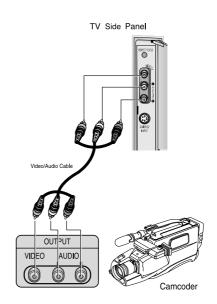
Connect an audio cable between the AUDIO OUTPUT jack on the camcorder and the AUDIO terminals on the side of the TV

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

3

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

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



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

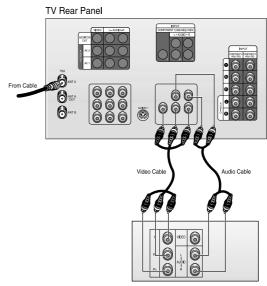
The rear panel jacks on your TV make it easy to connect a DVD player (or DTV Set-Top Box) to your TV.

Connecting to Y, P_{B} , P_{R}

Connect a set of audio cables between the DVD audio in jacks on the TV and the AUDIO OUT jacks on the DVD player (or DTV Set-Top Box).

2To enable Component video viewing, connect video cables between the Y, P_B , and P_R inputs on the TV and Y, P_B , and P_R (or Y, C_B , C_R) outputs on the DVD player (or DTV Set-Top Box).

Note: For an explanation of Component video, see your DVD player's (or DTV Set-Top Box) owner's instruction.

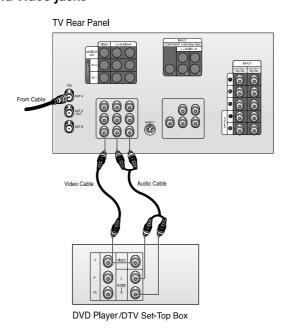


DVD Player/DTV Set-Top Box

Connecting to regular audio and video jacks

Connect a set of audio cables between the AUDIO IN jacks on the TV and the AUDIO OUT jacks on the DVD player (or DTV Set-Top Box).

Connect video cables between the VIDEO OUT jack on the DVD player (or DTV Set-Top Box) and the VIDEO IN jack on the TV.



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

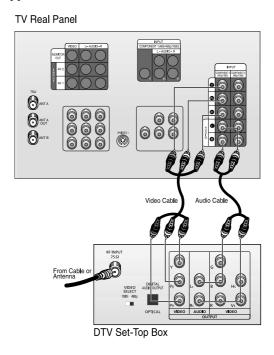
When switching to the DTV mode, either 480p or 1080i format is automatically selected according to the input signal.

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

Connect a set of audio cables between the DTV Set-Top Box audio in jacks on the TV and the AUDIO OUT jacks on the DTV Set-Top box.

2 To enable Component video viewing, connect video cables between the Y, P_B , and P_R inputs on the TV and Y, P_B , and P_R (or Y, C_B , C_R) outputs on the DTV Set-Top box.

Note: For an explanation of Component video, see your DTV Settop box's owner's instruction.



Installing Batteries in the Remote Control

1 Slide the back cover all the way out to open the battery compartment of the remote control.



2 Install two AAA size batteries.



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





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

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

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

Chapter Three

OPERATION

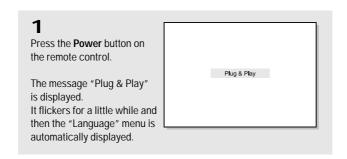
Turning the TV On and Off

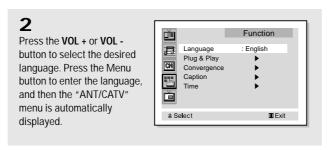
Press the **Power** button.

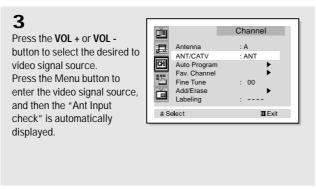
You can also use the POWER button on the front panel.

Plug & Play Feature

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

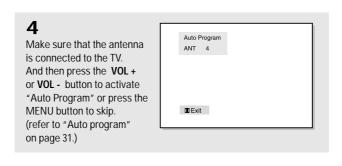






continued...

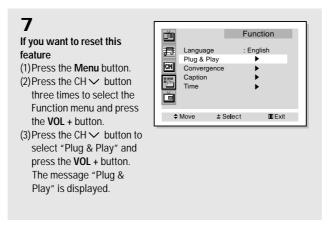
OPERATION





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

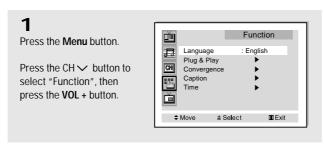




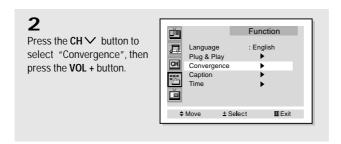
Note: Plug & Play feature doesn't work when in the A/V mode.

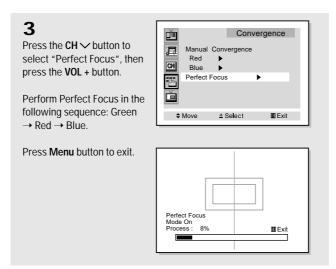
Using the Perfect Focus Feature

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



▼ You can also select Perfect
Focus by pressing the Perfect Focus button.





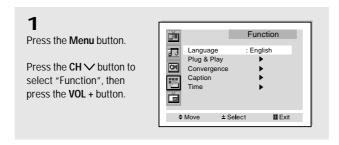
Notes

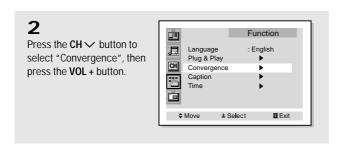
- If any error happens during Perfect Focus, then perform Perfect Focus once again.
- If you can't make adjustments after Perfect Focus, then make manual adjustments. Still you can't make adjustments, contact your Service Center.
- The Perfect Focus function doesn't operate when component input is in 480P.

Adjusting Manual Convergence

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

First steps:







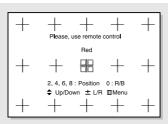
continued...

OPERATION

Adjust Red Convergence

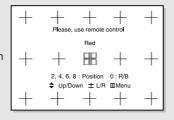
4

While "Red" is highlighted, press the VOL + button: A crosshair pattern will appear on the screen. After moving the cursor to the position you want to adjust using the number buttons 2(up), 4(left), 6(right), 8(down) on the remote control, adjust Red Convergence by pressing the VOL +/ VOL -/CH ✓ /CH ✓ buttons.



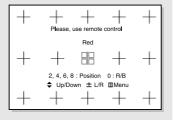
5

If a horizontal red line is visible, use CH and CH buttons to move the line so that it is superimposed on the horizontal center-line (i.e., make a single horizontal line that is as white as possible.)



6

If a vertical red line is visible, use the VOL + and VOL - buttons to move the line so that it is superimposed on the vertical-center line (i.e., make a single vertical line that is as white as possible.)



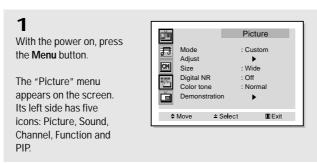
7

For 'Blue' adjustment, do the same as the above.

After the red convergence is correctly adjusted, press **Menu** to exit all the menus.

Viewing the Menus and On-Screen Displays

Viewing the Menus



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

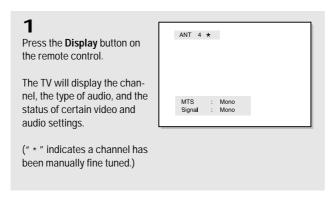
Press the CH or CH button to the move items in the menu (the icons blink when highlighted). Press the VOL + or VOL - button to display, change, or use the selected items. Press the VOL + button to enter items in the menu.

3
Press the Menu button to exit.

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

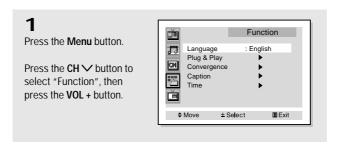
Viewing the Display

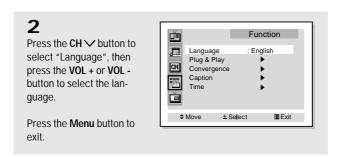
The display identifies the current channel and the status of certain audio-video settings.



■ The on-screen displays disappear after ten seconds.

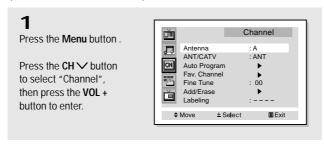
Selecting a Menu Language

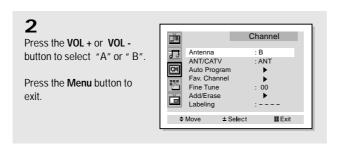




Selecting the Antenna Input

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



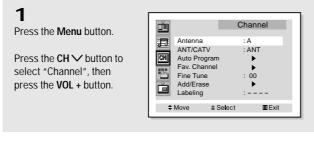


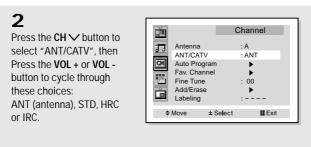
Memorizing the Channels

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

Selecting the Video Signal-source

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



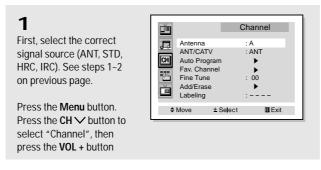


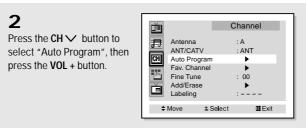
Note: STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

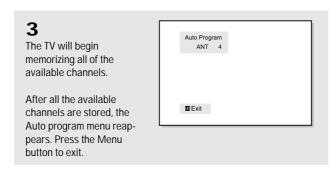
At this point the signal source has been selected. Proceed to "Storing Channels in Memory" (next page).

OPERATION

Storing Channels in Memory (Automatic Method)



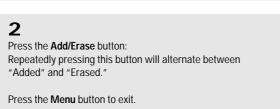




■ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes

Adding and Erasing Channels (Manual Method)





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

Changing Channels

Using the Channel Buttons

Press the $\mathbf{CH} \wedge$ or $\mathbf{CH} \vee$ button to change channels.

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

Using the Number Buttons

Use the number buttons to quickly tune to any channel.

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

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

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

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

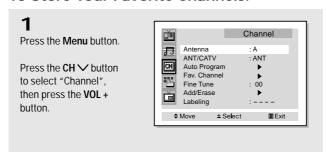
Using the Previous Channel

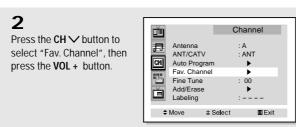
Press the **Pre-CH** button. The TV changes to the last channel you were watching.

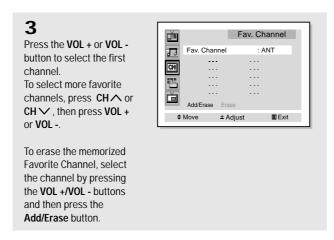
Selecting Your Favorite Channels

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

To Store Your Favorite Channels:





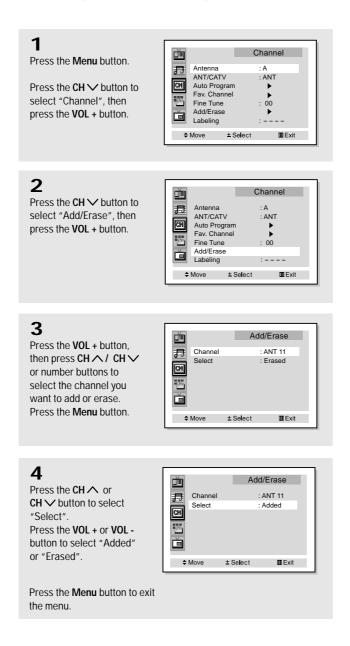


■ Note: Only memorized channels can be set as Favorite channels.

To View Your Favorite Channels:

Press the **Fav.CH** button repeatedly to jump from one favorite channel to another.

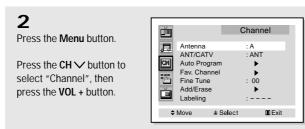
Adding and Erasing Channels (Manual Method)



Labeling the Channels

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





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



Press the **VOL** + button to begin labeling. The left-most field will be highlighted. (Each label has four fields. See top paragraph.)



4

Press the CH o or CH button to select a letter, a number, or a blank. (Press the CH o or CH ✓ button results in this sequence: A,B,...Z, blank, 0,1,...9).



5

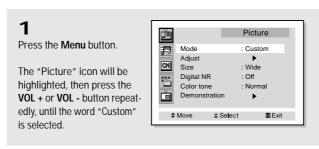


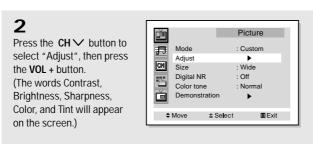
Press the Menu button to exit the menu.

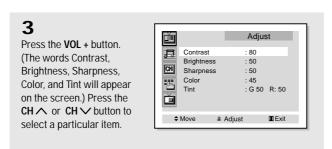
Picture Control

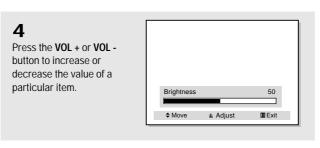
You can use the on-screen menus to change the contrast, brightness, tint, color, and sharpness according to personal preference. (Alternatively, you can use one of the "automatic" settings. See next page.)

Customizing the Picture





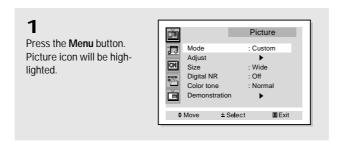


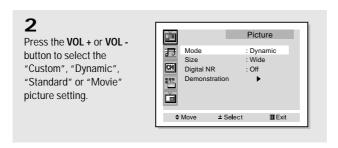


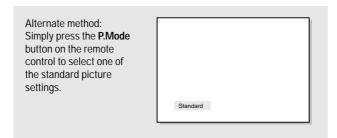
■ After adjusting an item, the gauge will automatically disappear(after about 4 seconds).

Using Automatic Picture Settings

Your TV has three automatic picture settings ("Dynamic", "Standard" and "Movie") that are preset at the factory. You can activate either Dynamic, Standard 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.

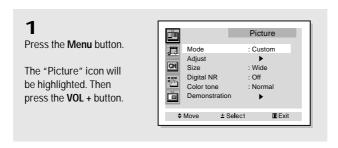


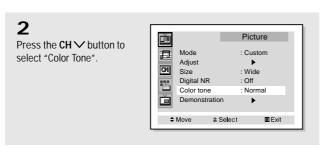


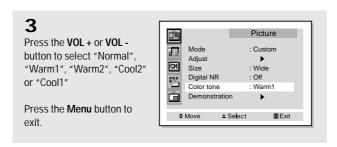


- Choose Standard for the standard factory settings.
- Choose *Dynamic* for viewing the TV during the day or when there is bright light in the room.
- Choose Movie when viewing the Movie.
- Choose *Custom* if you want to adjust the settings according to personal preference (see "Customizing the Picture, page 36.).

Selecting the Color Tone







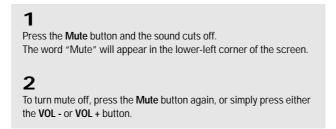
Sound Control

Adjusting the Volume

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

Using Mute

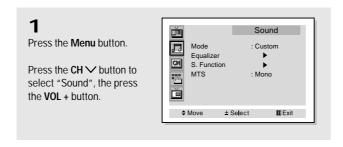
At any time, you can temporarily cut off the sound using the Mute button.

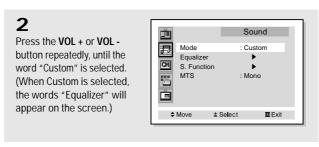


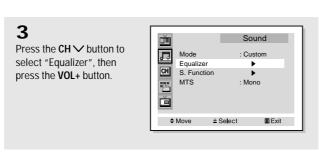
OPERATION

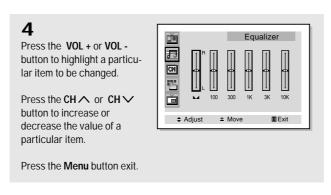
Customizing the Sound

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



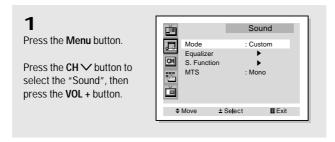


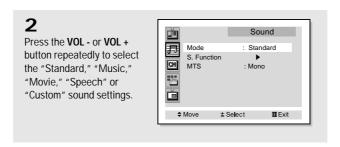




Using Automatic Sound Settings

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







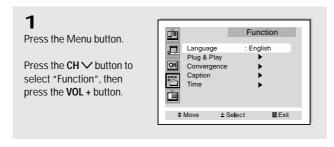
- Choose Standard for the standard factory settings.
- Choose Music when watching music videos or concerts.
- Choose Speech when watching a show that is mostly dialogue (i.e., news).
- Choose Movies when watching movies.
- Choose *Custom* to recall your personalized settings.

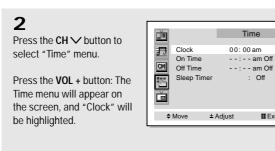
Setting the Clock

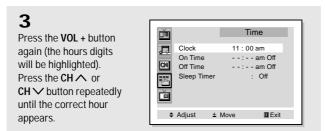
Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press Display.)

: Off

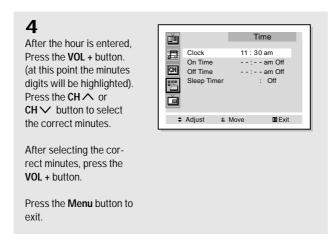
■ Exit







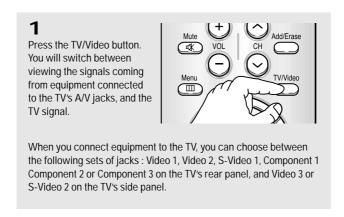
■ When selecting the hours, be sure to select the proper time of day (AM or PM).



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

Viewing an External Signal Source

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

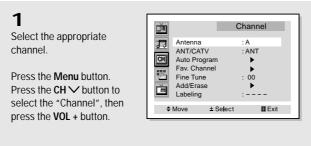


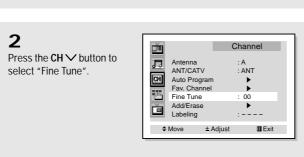
Chapter Four

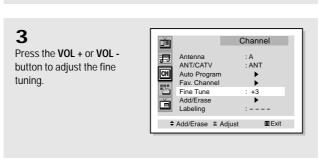
SPECIAL FEATURES

Fine Tuning Channels

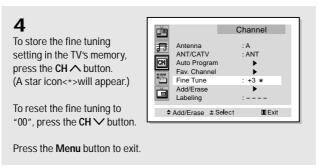
Use fine tuning to manually adjust a particular channel for optimal reception.







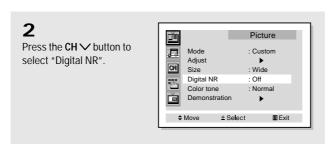
■ After you adjust the fine tuning, "*" will appear when you press Display while watching this channel.

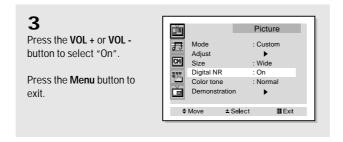


Digital Noise Reduction

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



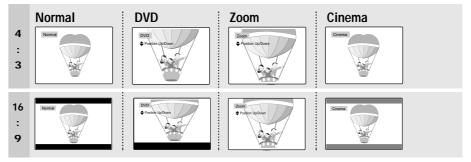




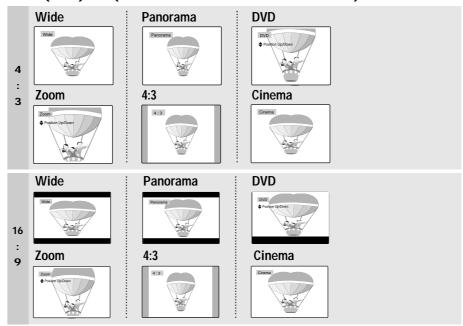
Changing the Screen Size

Press the Aspect button to change the screen.

Normal TV(4:3) (ST43T7P/ ST43T8HR / ST54T8HR/ ST62T8HR)



Wide(16:9) TV (ST47W3HR/ ST55W3HR / ST65W3HR)



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

Use this mode for the wide aspect ratio of a panoramic picture. • Panorama:

Magnifies the size of the picture and moves the magnified picture up. • DVD:

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

You can also move the picture on screen pressing the $CH \land$ or $CH \lor$ button.

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

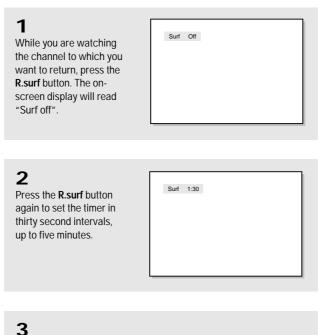
The broadcasting signal is enlarged automatically to optimum screen size. The margins appear grayed. ST43T8HR, ST54T8HR, ST62T8HR have no change in screen size and only margins will turn gray. • Cinema:

Notes

- Changing the Screen size doesn't work with Component1, 2, 3(480p) signals. The ST43T8HR, ST54T8HR models operate olny Zoom function with Component1, 2, 3 (1080i) signals.
- Changing the Screen size doesn't work with Component1 2(480p) signals. Zoom function operates only on Component 2 signals.
- Screen size cannot be changed in the PIP mode.
- It's possible to be a little difference to perform a grey letterbox by the specification of the DVD or VCR Tapes.

Using the R.surf feature

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



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

3

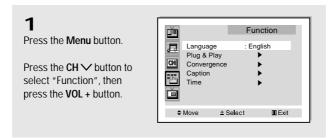
select the "On time" hours. (The hours digits will be

Press the CH ∧ or CH ∨ button repeatedly to select the appropriate hours (i.e., the hour when the TV will

highlighted.)

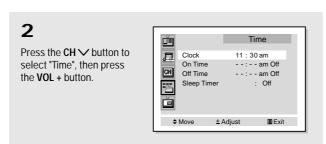
turn on.)

Setting the On/Off Timer



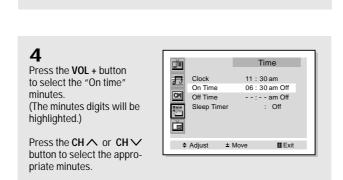
■ Before using the timer, you must set the TV's clock. (See "Setting the Clock" on page 41.)

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

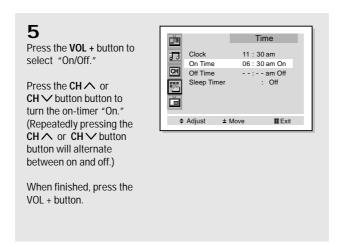


■ When you set the hours, make sure the correct time of day (AM or Time Press the CH ✓ button to PM) appears to the left of the hour. Ð Clock 11:30 am select "On time". On Time 06:00 am Off CH 1 Off Time Press the VOL + button to Sleep Time : Off

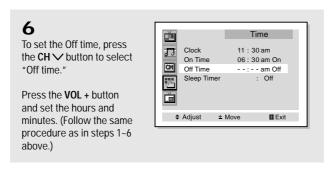
Ⅲ Exit



SPECIAL FEATURES



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



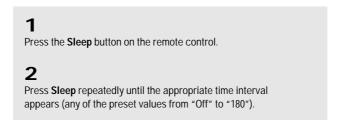
■ If no function buttons (including remote control buttons or front panel buttons) are operated for three hours after the TV is turned on with the by "On time" feature, the TV will be automatically turned off.

7

When finished setting the timer, press the $\mbox{\bf Menu}$ button to exit.

Setting the Sleep Timer

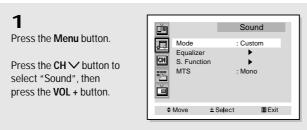
The sleep timer automatically shuts off the TV after a preset time (from 10 to 180 minutes).



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

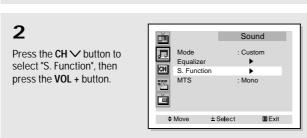
Extra sound settings (Surround, Auto Volume, Melody, BBE)

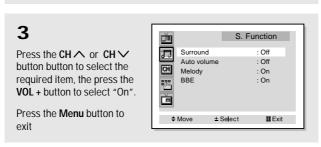
The following sound settings can be adjusted to suit your personal preferences.



■ Before using the timer, you must set the TV's clock. (See "Setting the Clock" on page 41.)

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





• Surround

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

• Auto Volume

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

Melody

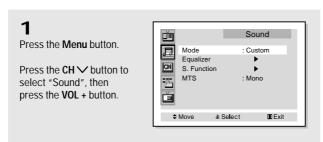
You can hear clear a melody sound when the TV is powered on or Off.

BBE

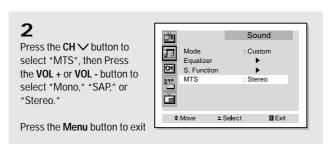
BBE is a built-in effect that adds clarity, punch and dynamics to the sound.

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.)



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



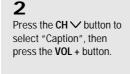
- Choose Stereo for channels that are broadcasting in stereo.
- Choose *Mono* for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose SAP to listen to the Separate Audio Program, which is usually a foreign-language translation.

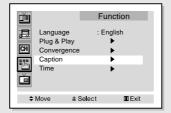
Viewing Closed Captions

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].

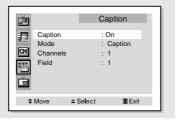


■ Quick way to access captions menu: Simply press the "Caption" button on the remote control:

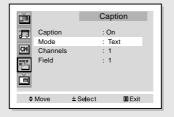




3Press the **VOL** + or **VOL** button to turn closed captioning "on" or "off".



Press the CH ✓ button to select "Mode", then press the VOL + or VOL - button to select "Caption" or "Text."



5

Depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field": Use the CH \wedge , CH \vee , VOL + and VOL - buttons to make the changes. (Follow the same procedure as in steps 3–4 above.)

Press the Menu button to exit.

- Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.
- In **caption mode**, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture

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

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.)

■ Different channels and fields

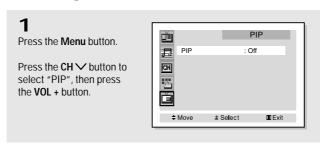
Note: The Caption feature doesn't work in Component1(480p, 1080i), Component2, and Component3 mode.

Viewing Picture-in-Picture

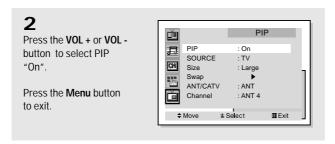
You can use the PIP feature to simultaneously watch two video sources.

Note: The PIP feature does not work with Component1, Component2 and Component3 mode. When PIP is selected in the Zoom mode, the Mode is automatically converted into the Normal mode.

Activating Picture-in-Picture



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

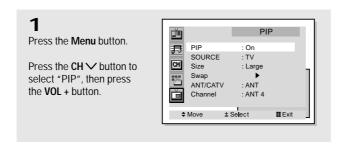


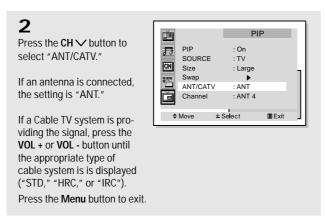
■ If you turn TV off while watching and turn it on again, the PIP window will disappear.

Notes

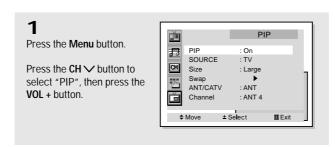
- Picture in Picture doesn't function when the V-Chip is active.
- Screen size cannot be changed in the PIP mode.
- The PIP feature doesn't work with Component1, Component2 or Component3 signals.
- When the cable box output is connected to ANT-B, it cannot be viewed in the PIP window.

Selecting a Signal Source (Antenna or Cable) for PIP

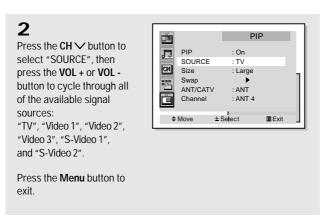




Selecting a Signal Source (External A/V) for PIP

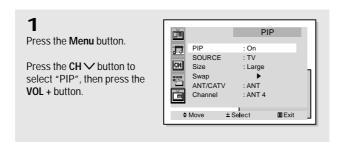


■ Quick way to access the signal source (PIP): Simply press the "Source" button on the remote control.

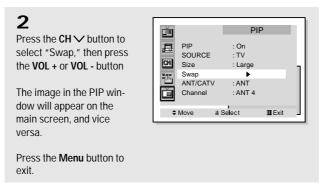


■ If you select "TV", the PIP image is the same as the main image.

Swapping the Contents of the PIP Image and Main Image

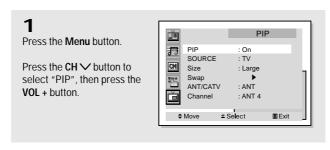


■ Quick way to access swapping: Simply press the "Swap" button on the remote control.

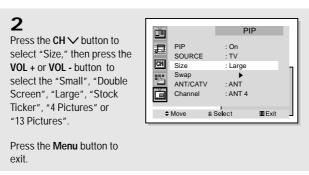


Note: When ANT-B is selected, the PIP Swap function doesn't work.

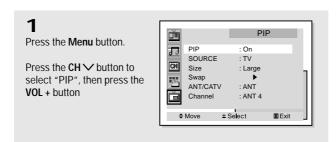
Changing the Size of the PIP Window



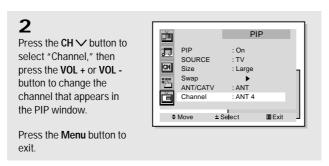
■ Quick way to access PIP size: Simply press the "Size" button on the remote control.



Changing the PIP Channel



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



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

Changing the Location (Rotating) in PIP mode

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

Scanning the Available Channels

This procedure scans all of the available channels and then stores them in memory. Press the Scan button, and the memorized channels will appear in

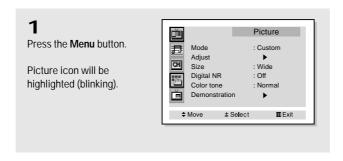
sequence for 2 to 3 seconds per channel. Press the ${\bf Scan}$ button again to stop the scanning process.

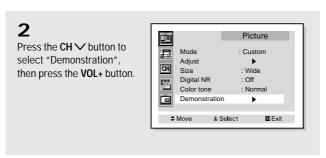
When Scan stops, the viewing mode will return to its original set-

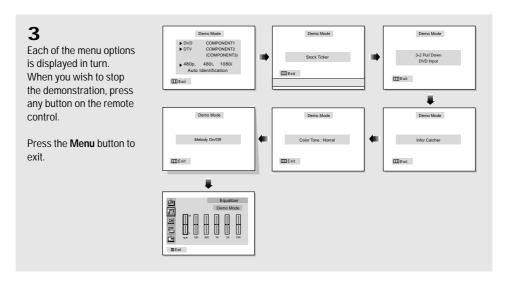
ting.

Viewing the Demonstration

To become familiar with the various menus provided by your television, you can view the built-in demonstration.



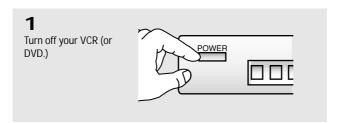




Customizing Your Remote Control

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

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



2

Press the \mbox{MODE} button and make sure that the \mbox{VCR} (or \mbox{DVD} LED is illuminated.

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

3

On your Samsung remote control, press Set.

4

Enter 3 digits of the VCR (or DVD) code listed on page 59 for your brand of VCR (or DVD).

■ Make sure you enter 3 digits of the code, even if the first digit is a "0"

If more than one code listed, try the first one.

5

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

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

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

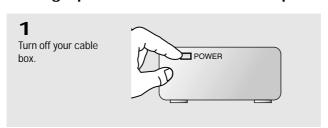
6

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

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

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

Setting Up Your Remote Control to Operate Your Cable Box



2

Press the **MODE** button and make sure that the **Cable** LED is illuminated.

→ The remote control has four "modes": "TV," "VCR," "CABLE" and "DVD."

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

3

On your Samsung remote control, press SET.

4

Enter 3 digits of the cable box code listed below for your brand of cable box.

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

5

Press **Power**. Your cable box should turn on. If your cable box turns on, your remote control is now "set up" correctly.

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

6

Once your remote control is set up, press the **MODE** button any time you want to use the remote to operate your cable box.

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

SPECIAL FEATURES

VCR Codes

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

Cable Box Codes

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

DVD Codes

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

Note: The remote control might not be compatible with all DVD Players, VCRs, and Cable boxes.

Chapter Five

TROUBLESHOOTING

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

Identifying Problems

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

Cleaning and Maintaining Your TV

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

Placement

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

Liquids

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

Cabinet

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

Temperature

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

Using Your TV in Another Country

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

Specifications

Model	ST43T7P	ST43T8HR	ST54T8HR	ST62T8HR	ST47W3HR	ST55W3HR	ST65W3HR
Voltage	100-240Vca	100-240Vca	100-240Vca	100-240Vca	100-240Vca	100-240Vca	100-240Vca
Frequency of Operation	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Power Consumption	240 Watts	230 Watts	230 Watts	230 Watts	230 Watts	230 Watts	240 Watts
Dimensions	959 x 505 x 1110 mm ; 37.8 x 19.9 x 43.7 inches	959 x 505 x 1417 mm (with Rack) ; 37.8 x 19.9 x 55.8 inches	1162 x 635 x 1502 mm ; 45.7 x 25.0 x 59.1 inches	1321 x 738 x 1694 mm ; 52.0 x 29.0 x 66.7 inches	1132 x 588 x 1325 mm ; 44.6 x 23.1 x 52.1 inches	1312 x 651 x 1435 mm ; 51.6 x 25.6 x 56.5 inches	1529x 736 x 1587 mm ; 60.1 x 30.0 x 62.5 inches
Weight	47 Kg ; 103.6 lbs	69 Kg ; 152.0 lbs	78 Kg ; 171.0 lbs	99 Kg ; 218.0 lbs	76 Kg ; 167.0 lbs	99.5 Kg ; 219.0 lbs	136 Kg ; 299.0 lbs

MEMO

MEMO