



# LCD TV

LE15S5  
LE20S5

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## - AFTER SALES SERVICE

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- Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.



## Owner's Instructions

Before operating the unit,  
please read this manual thoroughly,  
and retain it for future reference.



**Correct Disposal of This Product**  
**(Waste Electrical & Electronic Equipment)**  
(Applicable in the European Union and other European countries with separate collection systems)

■ This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.


**ON-SCREEN MENUS**  
**PC DISPLAY**  
**TELETEXT**

BN68-00940G-00

This device is a Class B digital apparatus.  
Register your product at [www.samsung.com/global/register](http://www.samsung.com/global/register)

#### Precautions When Displaying a Still Image

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

- Do not display a still image on the LCD panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.
-  Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause a similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

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




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Symbol	Press	Important	Note	One-Touch Button

## CONNECTING AND PREPARING YOUR TV

### 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  
& Batteries (AAA x 2)

♦ Warranty card



Power Cord

♦ Service Network Card



Wall Mount kit

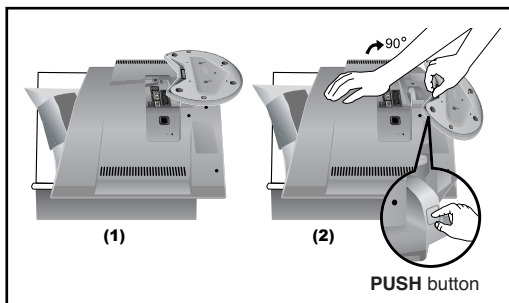
♦ Safety Guide



Owner's Instructions

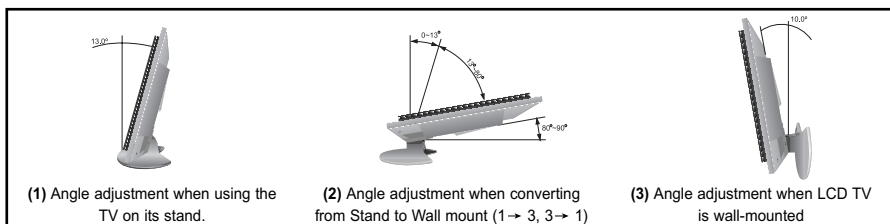
♦ Registration Cards

### How to Adjust the Stand



- Place the front of the TV onto a soft cloth or cushion on a table as in Figure (1).  
- Align the TV bottom along the table edge.
  - Press on the center of the TV back. Adjust the stand as in Figure (2) while pressing the "PUSH" button on the back of the stand.
  - Place the TV on the table so that the TV sits safely.
- ☛ When you adjust the stand, press the "PUSH" button on the back of the stand.

### How to Adjust the Angle of the TV



(1) Angle adjustment when using the TV on its stand.

(2) Angle adjustment when converting from Stand to Wall mount (1 → 3, 3 → 1)

(3) Angle adjustment when LCD TV is wall-mounted

☛ When you adjust the stand, press the "PUSH" button on the back of the stand.

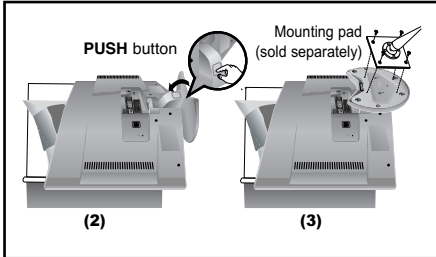
- Figure (1) shows the adjustment angle (0°~13°) when you use the LCD on its stand . Excessive tilting can turn the LCD TV over which may cause damage.
- Figure (2) shows the adjustment angle (13°~80°) when you convert the LCD from stand-based use to wall-mount.
- Figure (3) shows the adjustment angle (0°~10°) when you mount the LCD TV to a wall.

➤ You will hear a "Click " sound when changing the angle from 1 to 2 or 3 to 2.

## Installing the Wall Mount Kit

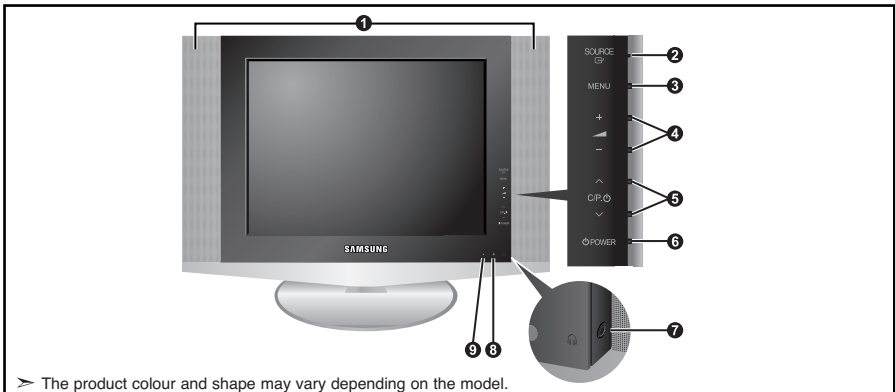
Wall mount items (sold separately) allow you to mount the TV on the wall. For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

## Installing VESA compliant mounting devices



1. Place the TV faced down on a soft cloth or cushion on a table.
  2. Adjust the stand, pressing the "PUSH" button on the back of the stand.
  3. Align the mounting interface pad (not supplied) with the holes in the stand bottom and secure it with the four screws that come with the arm-type base, wall mount hanger or other bases (not supplied).
- ☛ When you adjust the stand, press the "PUSH" button on the back of the stand.

## Viewing the Control Panel




➤ The product colour and shape may vary depending on the model.

### 1 Speakers

### 2 SOURCE

Toggles between all the available input sources (TV - Ext. - AV - S-Video - PC).





In the on-screen menu, use this button as you use the **ENTER**  button on the remote control.

### 3 MENU






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

### 4

Press to decrease or increase the volume.

In the on-screen menu, use the   buttons as you use the  and  buttons on the remote control.

### 5 C/P

Press to change channels. In the on-screen menu, use the    buttons as you use the  and  buttons on the remote control. (Without the Remote Control, You can turn on TV by using the Channel buttons.)

### 6 POWER

Press to turn the TV on and off.

### 7 (Headphone Jack)

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

### 8 Remote Control Sensor

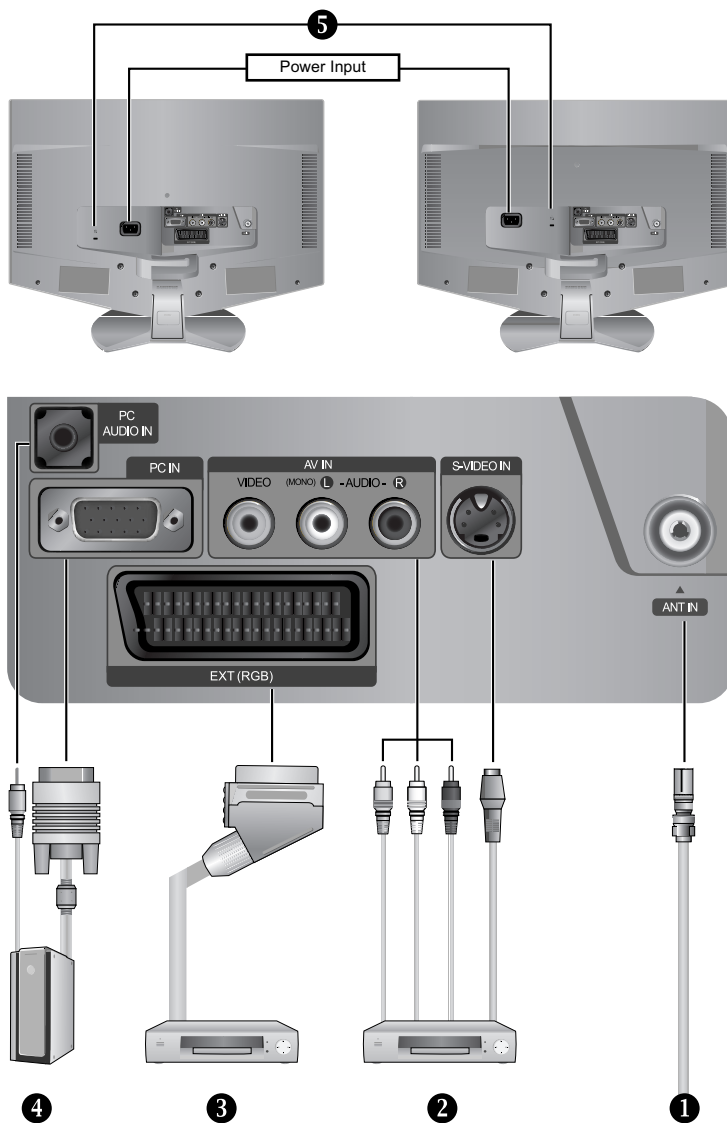
Aim the remote control towards this spot on the TV.

### 9 Power Indicator

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

## Viewing the Connection Panel

➤ The product colour and shape may vary depending on the model.



- Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
- When connecting an external device, match the colour of the connection terminal to the cable.

### 1 Connecting an Aerial or Cable Television Network

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial / A cable television network / A satellite network

### 2 Connecting External A/V Devices

- Connect RCA (optional) or S-VIDEO cable (optional) to an appropriate external A/V device such as VCR, DVD or Camcorder.
- Connect RCA audio cables (optional) to "L - AUDIO - R" on the rear of your set and the other ends to corresponding audio out connectors on the A/V device.

### 3 Connecting Set-Top Box, VCR or DVD

- Connect the VCR or DVD SCART cable (optional) to the SCART connector of the VCR or DVD.
- If you wish to connect both the Set-Top Box and VCR (or DVD), you should connect the Set-Top Box to the VCR (or DVD) and connect the VCR (or DVD) to your set.

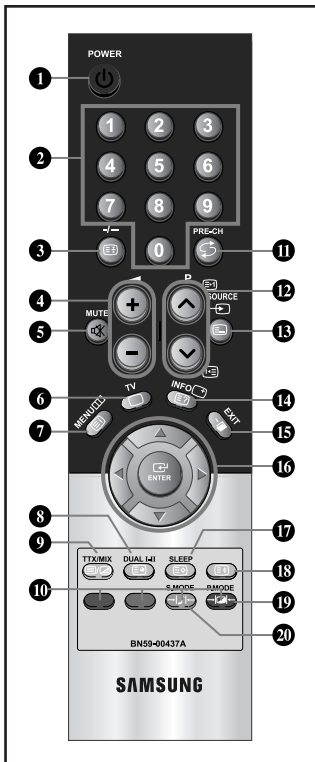
### 4 Connecting Computer

- Connect the D- Sub cable (optional) to "PC IN" on the rear of your set and the other end to the Video Card of your computer.
- Connect the stereo audio cable (optional) to "PC AUDIO IN" on the rear of your set and the other end to "Audio Out" of the sound card on your computer.

### 5 Kensington Lock

- The Kensington lock (optional) is a device used to physically fix the system when used in a public place.
- If you want to use a locking device, contact the dealer where you purchased the TV.
- The place of the Kensington Lock may be different depending on its model.

## Viewing the Remote Control



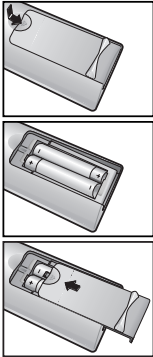
- 1 Television Standby button
- 2 Number buttons for direct channel access
- 3 One/Two-digit channel selection
- 4  $\oplus$ : Volume increase  
 $\ominus$ : Volume decrease
- 5 Temporary sound switch-off
- 6 Selects the TV mode directly
- 7 Displays the main on-screen menu
- 8 Sound effect selection
- 11 Previous channel
- 12 P  $\rightarrow$ : Next channel  
P  $\leftarrow$ : Previous channel
- 13 Available source selection
- 14 Use to see information on the current broadcast
- 15 Exit the on-screen menu
- 16 Control the cursor in the menu
- 17 Automatic Power-off
- 19 Picture effect selection
- 20 Sound mode selection

### Teletext Functions

- 3 Teletext hold
- 6 Exit from the teletext display
- 7 Teletext index
- 8 Teletext sub page
- 9 Teletext display/mix both teletext information and the normal broadcast
- 10 Fastest topic selection
- 12 P  $\rightarrow$ : Teletext next page  
P  $\leftarrow$ : Teletext previous page
- 13 Teletext mode selection (LIST/FLOF)
- 14 Teletext reveal
- 17 Teletext store
- 18 Teletext size selection

- The performance of the remote control may be affected by bright light.
- For details, refer to further instructions.








## Installing Batteries in the Remote Control



1. Slide the cover out completely.
  2. Install two AAA size batteries.
    - Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.
  3. Replace the cover.
    - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries last for about one year.)
- 
- **If the remote control doesn't work, check the following:**
1. Is the TV power on?
  2. Are the plus and minus ends of the batteries reversed?
  3. Are the batteries drained?
  4. Is there a power outage, or is the power cord unplugged?
  5. Is there a special fluorescent light or neon sign nearby?





## Switching On and Off

*The mains lead is attached to the rear of your set.*

1. Plug the mains lead into an appropriate socket.
  - The standby indicator lights up on the lower-right panel.
2. Press the **POWER**  button on the right side of the panel.
  - The programme that you were watching last is reselected automatically.
3. Press the numeric button (0-9) or channel up/down ( /  button) on the remote control or  **C/P**   button on the right side of the panel.
  - When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
4. To switch your set off, press the **POWER**  button again.

## Placing Your Television in Standby Mode






*Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).*

1. Press the **POWER**  button on the remote control.
  - The screen is turned off and a standby indicator appears on the lower-right panel.
2. To switch your set back on, simply press the **POWER**  button, numeric buttons (0-9) or channel up/down ( /  button) again.
  - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

## Plug & Play



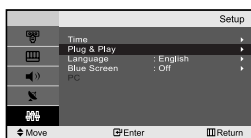
*When the TV is initially powered on, several basic settings proceed automatically and subsequently. The following settings are available.*

1. Press the **POWER**  button on the remote control. The message "Start Plug & Play" is displayed with "OK" selected.
2. Select the appropriate language by pressing the  or  button. Press the **ENTER**  button to confirm your choice.
3. The message "Check antenna input." is displayed with "OK" selected. Press the **ENTER**  button.
  - Please check that the antenna cable is connected correctly.



4. Select the appropriate country by pressing the  $\blacktriangle$  or  $\blacktriangledown$  button. Press the **ENTER**  $\square$  button to confirm your choice.
5. The "Auto Store" menu is displayed with the "Start" selected. Press the **ENTER**  $\square$  button.
  - $\blacktriangleright$  The channel search will start and end automatically.
  - After all the available channels are stored, the "Clock Set" menu appears.
  - $\blacktriangleright$  Press the **ENTER**  $\square$  button at any time to interrupt the memorization process.
6. Press the **ENTER**  $\square$  button.
  - Select the "Hour" or "Minute" by pressing the  $\blacktriangleleft$  or  $\blacktriangleright$  button.
  - Set the "Hour" or "Minute" by pressing the  $\blacktriangle$  or  $\blacktriangledown$  button.
  - $\blacktriangleright$  You can also set the hour and minute by pressing the number buttons on the remote control.
7. Press the **ENTER**  $\square$  button to confirm your setting.

- $\blacklozenge$  **Language:** Select your language.
- $\blacklozenge$  **Country:** Select your country.
- $\blacklozenge$  **Auto Store:** Automatically scans for and stores channels available in the local area.
- $\blacklozenge$  **Clock Set:** Sets the current time for the TV clock.

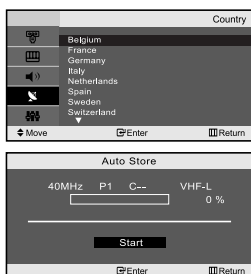


*If you want to reset this feature...*

1. Press the **MENU** button to display the menu. Press the  $\blacktriangle$  or  $\blacktriangledown$  button to select "Setup", then press the **ENTER**  $\square$  button.
2. Press the  $\blacktriangle$  or  $\blacktriangledown$  button to select "Plug & Play", then press the **ENTER**  $\square$  button.
3. This will change or reset the settings.

## SETTING THE CHANNELS

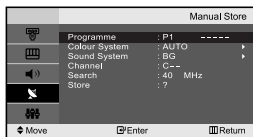
### Storing Channels Automatically



*You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However, you can sort numbers manually and clear any channels you do not wish to watch.*

1. Press the **MENU** button to display the menu. Press the  $\blacktriangle$  or  $\blacktriangledown$  button to select "Channel", then press the **ENTER**  $\square$  button.
2. Press the **ENTER**  $\square$  button to select "Country".
3. Select the appropriate country by pressing the  $\blacktriangle$  or  $\blacktriangledown$  button. Press the **ENTER**  $\square$  button to confirm your choice.
4. Press the  $\blacktriangle$  or  $\blacktriangledown$  button to select "Auto Store", then press the **ENTER**  $\square$  button.
5. Press the **ENTER**  $\square$  button.
  - $\blacktriangleright$  The TV will begin memorizing all of the available channels.
  - $\blacktriangleright$  Press the **ENTER**  $\square$  button at any time to interrupt the memorization process and return to the "Channel" menu.
6. After all the available channels are stored, the "Sort" menu appears.

## Storing Channels Manually



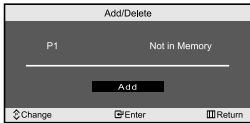
You can store up to 100 channels, including those received via cable networks. When storing channels manually, you can choose:

- ◆ Whether or not to store each of the channels found.
- ◆ The programme number of each stored channel which you wish to identify.

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Manual Store", then press the **ENTER** button.
3. Press the **ENTER** button to select "Programme".
4. To assign a programme number to a channel, find the correct number by pressing the **▲** or **▼** button and then press the **ENTER** button.
5. Press the **▲** or **▼** button to select "Colour System", then press the **ENTER** button.
6. Select the colour standard required by pressing the **▲** or **▼** button, then press the **ENTER** button.
7. Press the **▲** or **▼** button to select "Sound System", then press the **ENTER** button.
8. Select the sound standard required by pressing the **▲** or **▼** button, then press the **ENTER** button.
  - If there is an abnormal sound or no sound, re-select the sound system required.
9. If you know the number of the channel to be stored, press the **▲** or **▼** button to select "Channel". Press the **ENTER** button. Select **C** (Air channel) or **S** (Cable channel) by pressing the **▲** or **▼** button. Press the **▶** button to select channel. Select the required number by pressing the **▲** or **▼** button and then press the **ENTER** button.
  - Channel mode: P (Programme mode)  
C (Air channel mode)  
S (Cable channel mode)
10. If you do not know the channel numbers, press the **▲** or **▼** button to select "Search". Press the **ENTER** button. Search by pressing the **▲** or **▼** button and then press the **ENTER** button.
11. Press the **▲** or **▼** button to select "Store", then press the **ENTER** button. Press the **▲** or **▼** button to select "OK", then press the **ENTER** button.
12. Repeat steps 3 to 11 for each channel to be stored.

- ◆ **Programme**: Selects a program number for the channel.
- ◆ **Colour System**: Sets the colour supporting system.
- ◆ **Sound System**: Sets the sound supporting system.
- ◆ **Channel**: Selects a channel.
- ◆ **Search**: Scans for the frequency value for the channel.
- ◆ **Store**: Saves your settings.

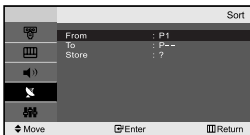
## Editing the Channels



*You can exclude the channels you chose from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed. All channels that you do not specifically choose to skip are displayed during scanning.*

1. Use the number buttons to directly select the channel that will be added or deleted.
  2. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
  3. Press the **▲** or **▼** button to select "Add/Delete", then press the **ENTER** button.
  4. Repeatedly pressing the **ENTER** button will alternate between add channel and delete channel.
  5. Press the **P** or **P** buttons to switch to the appropriate channel, then repeat above.
  6. Press the **EXIT** button to exit.
- You can view any channel (including an erased channel) by using the number buttons on the remote control.

## Sorting the Stored Channels

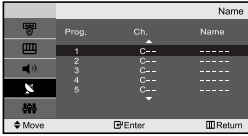


*You can exchange the numbers of two channels, in order to:*

- ◆ *Modify the numeric order in which the channels have been automatically stored.*
- ◆ *Give easily remembered numbers to the channels that you watch most often.*

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Sort", then press the **ENTER** button.
3. Press the **ENTER** button to select "From". Press the **▲** or **▼** button until the channel number that you wish to change is displayed. Press the **ENTER** button.
4. Press the **▲** or **▼** button to select "To", then press the **ENTER** button. Press the **▲** or **▼** button until the new number by which you wish to identify the channel is displayed. Press the **ENTER** button.
5. Press the **▲** or **▼** button to select "Store", then press the **ENTER** button. Press the **▲** or **▼** button to select "OK", then press the **ENTER** button.
  - The selected channel is exchanged with the one previously stored to the chosen number.
6. Repeat steps 3 to 5 for another channel to be sorted.
7. Press the **EXIT** button to exit.

## Assigning Channels Names



**Channel names will be assigned automatically when channel information is broadcast.**

**These names can be changed, allowing you to assign new names.**

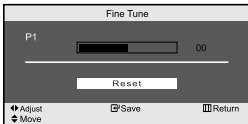
1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Name", then press the **ENTER** button.
3. If necessary, select the channel to be assigned to a new name by pressing the **▲** or **▼** button. Press the **ENTER** button.

To...	Then...
Select a letter, number or symbol	Press the <b>▲</b> or <b>▼</b> button
Move on the next letter	Press the <b>▶</b> button
Move back the previous letter	Press the <b>◀</b> button
Confirm the name	Press the <b>ENTER</b> button

➤ The characters available are :  
 Letters of the alphabet (A-Z)  
 Numbers (0-9)  
 Special characters ( , - , space)

5. Repeat steps 3 to 4 for each channel to be assigned to a new name.
6. Press the **EXIT** button to exit.

## Fine Tuning Channel Reception

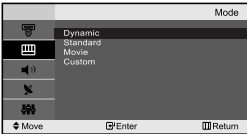


**Use fine tuning to manually adjust a particular channel for optimal reception.**

1. Use the number buttons to directly select the channel that you want to fine tune.
2. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "Fine Tune", then press the **ENTER** button.
4. Press the **◀** or **▶** button to adjust the fine tuning. Press the **ENTER** button.
5. Press the **EXIT** button to exit.
  - Fine tuned channels that have been saved are marked with an asterisk "\*" on the right-hand side of the channel number in the channel banner. And the channel number turns red.
  - To reset the fine-tuning, select "Reset" by pressing the **▲** or **▼** button and then press the **ENTER** button.

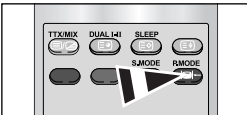
# SETTING THE PICTURE

## Changing the Picture Standard



*You can select the type of picture which best corresponds to your viewing requirements.*

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Picture", then press the **ENTER** button.
2. Press the **ENTER** button to select "Mode".
3. Press the **▲** or **▼** button to select the desired picture effect. Press the **ENTER** button.
4. Press the **EXIT** button to exit.



You can also press the **P.MODE** button on the remote control to select one of the picture settings.

- **Dynamic:** Selects the picture for high-definition in a bright room.
- **Standard:** Selects the picture for optimum display in a normal environment.
- **Movie:** Selects the picture for comfortable display in a dark room.
- **Custom:** Select to view your favorite display settings.  
(Refer to "Adjusting the Custom Picture" on page 11)

➤ The Picture mode must be adjusted separately for each input source.

## Adjusting the Custom Picture



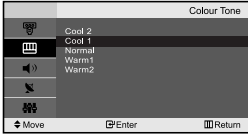
*Your set has several settings which allow you to control picture quality.*

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Picture", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Custom", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select a particular item. Press the **ENTER** button.
4. Press the **◀** or **▶** button to decrease or increase the value of a particular item. Press the **ENTER** button.
5. Press the **EXIT** button to exit.

- **Contrast:** Adjusts the lightness and darkness between objects and the background.
- **Brightness:** Adjusts the brightness of the whole screen.
- **Sharpness:** Adjusts the outline of objects to either sharpen them or make them more dull.
- **Colour:** Adjusts the colours, making them lighter or darker.
- **Tint (NTSC only):** Adjusts the colour of objects, making them more red or green for a more natural look.

➤ If you make any changes to these settings, the picture mode is automatically switched to "Custom".

## Changing the Colour Tone



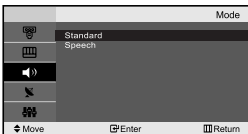
*You can select the most comfortable colour tone to your eyes.*

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Picture", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Colour Tone", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select the desired colour tone setting. Press the **ENTER** button.
4. Press the **EXIT** button to exit.

- ♦ **Cool 2:** Makes the colour temperature bluer than "Cool 1" menu.
- ♦ **Cool 1:** Makes whites bluish.
- ♦ **Normal:** Keeps whites white.
- ♦ **Warm1:** Makes whites reddish.
- ♦ **Warm2:** Makes the colour temperature redder than "Warm1" menu.

## SETTING THE SOUND

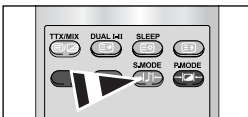
### Changing the Sound Standard



*You can select the type of the special sound effect to be used when watching a given broadcast.*

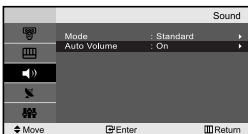
1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **ENTER** button to select "Mode".
3. Press the **▲** or **▼** button to select the desired sound effect. Press the **ENTER** button.
4. Press the **EXIT** button to exit.

- ♦ **Standard:** Selects the normal sound mode.
- ♦ **Speech:** Emphasizes voices over other sounds.



You can also select these options by simply pressing the **S.MODE** button on the remote control.

### Adjusting the Volume Automatically

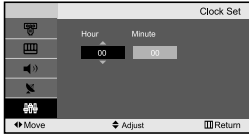


*Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature let you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.*

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Auto Volume", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "On" or "Off". Press the **ENTER** button.
4. Press the **EXIT** button to exit.

# SETTING THE TIME

## Setting and Displaying the Current Time

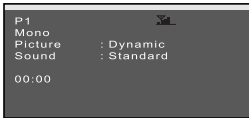


You can set the TV's clock so that the current time is displayed when you press the **INFO** button. You must also set the time if you wish to use the automatic On/Off timers.

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **ENTER** button to select "Time".
3. Press the **ENTER** button to select "Clock Set".

To...	Press the...
Move to "Hour" or "Minute"	<b>◀</b> or <b>▶</b> button.
Set the "Hour" or "Minute"	<b>▲</b> or <b>▼</b> button.
Press the <b>ENTER</b> button.	

5. Press the **EXIT** button to exit.
  - If you disconnect the power cord, you have to set the clock again.
  - You can also set hour and minute by pressing the number buttons on the remote control.

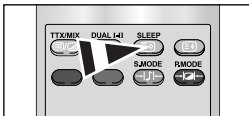


## Setting the Sleep Timer



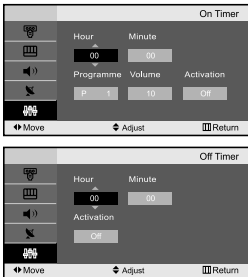
You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **ENTER** button to select "Time".
3. Press the **▲** or **▼** button to select "Sleep Timer", then press the **ENTER** button.
4. Press the **▲** or **▼** button repeatedly until the desired time appears (Off, 30, 60, 90, 120, 150, 180). Press the **ENTER** button.
  - The TV automatically switches to standby mode when the timer reaches 0.
5. Press the **EXIT** button to exit.



Press the **SLEEP** button on the remote control repeatedly until the appropriate time interval appears.

## Switching the Television On and Off Automatically



You can set the On/Off timers so that the set will:

- ◆ Switch on automatically and tune to the channel of your choice at the time you select.
- ◆ Switch off automatically at the time you select.

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **ENTER** button to select "Time".
3. Press the **▲** or **▼** button to select "On Timer", then press the **ENTER** button.
4. Press the **▲** or **▼** button to adjust "Hour", then press the **▶** button to move to the next step. Set other items using the same method as above. When finished, press the **ENTER** button to return.
5. Press the **▲** or **▼** button to select "Off Timer", then press the **ENTER** button.
6. Press the **▲** or **▼** button to adjust "Hour", then press the **▶** button to move to the next step. Set other items using the same method as above. When finished, press the **ENTER** button to return.
7. Press the **EXIT** button to exit.
  - The first step is to set the television's clock. (refer to "Setting and Displaying the Current Time" on page 13)
  - You can also set hour and minute by pressing the number buttons on the remote control.
  - The "Activation" setting must be set to "On" in order for the timers to work.

## SETTING THE OTHERS

### Choosing Your Language



When you start using your set for the first time, you must select the language which will be used for displaying menus and indications.

1. Press the **MENU** button to display the on-screen menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Language", then press the **ENTER** button.
3. Select a particular language by pressing the **▲** or **▼** button repeatedly. Press the **ENTER** button.
  - You can choose one of 12 languages.
4. Press the **EXIT** button to exit.



## 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 **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Blue Screen" then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "On" or "Off". Press the **ENTER** button.
4. Press the **EXIT** button to exit.

## Selecting the Source

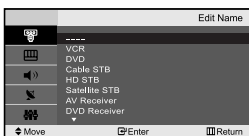


*You can select among external sources connected to your TV's input jacks.*

1. Press the **MENU** button to display the menu. Press the **ENTER** button to select "Input".
  2. Press the **ENTER** button to select "Source List".
  3. Select the required device by pressing the **▲** or **▼** button. Press the **ENTER** button.
-  Press the **SOURCE** button on the remote control to toggle between all the available source. TV mode can be selected by pressing the **TV** or **P** button on the remote control but you cannot select it by pressing the **SOURCE** button.



## Editing the Input Source Names

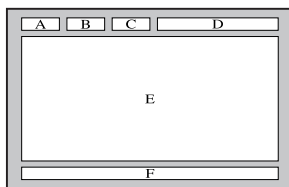


*Name the device connected to the input jacks to make your input source selection easier.*

1. Press the **MENU** button to display the menu. Press the **ENTER** button, to select "Input".
2. Press the **▲** or **▼** button to select "Edit Name", then press the **ENTER** button.
3. Press the **▲** or **▼** button to input select input source that you wish to edit. Press the **ENTER** button.
4. Press the **▲** or **▼** button to select the required device. Press the **ENTER** button.
5. Press the **EXIT** button to exit.

# USING THE TELETEXT FEATURE

## Teletext Decoder



Most set channels carry "teletext", pages of written information that provide information such as:

- ◆ Television programme times.
- ◆ News bulletins and Weather forecasts.
- ◆ Sports results.
- ◆ Subtitles for the hard of hearing.

The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting station identity.
C	Current page number or search status.
D	Date and time.
E	Text.
F	Status information.

## Displaying the Teletext Information



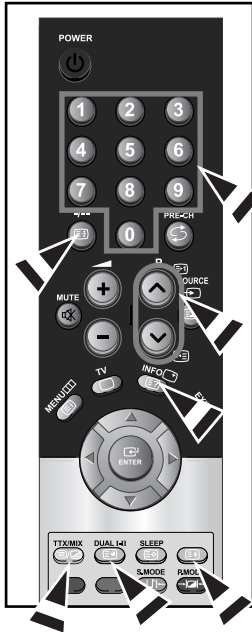
You can display teletext information at any time, but signal reception must be good. Otherwise:

- ◆ Information may be missing.
- ◆ Some pages may not be displayed.

To activate the teletext mode and display the contents page:

1. Using the P ( ) or P ( ) button, select the channel providing the teletext service.
2. Press the TTX/MIX ( ) button to activate the teletext mode.
  - The contents page is displayed. It can be redisplayed at any time by pressing the MENU ( ) button.
3. Press the TTX/MIX ( ) button again.
  - The actual broadcast will be displayed simultaneously with the teletext page on the screen.
4. Press the TV ( ) button again to exit from the Text display.
  - If any broken character appears while Text is being viewed, make sure that the Text language is identical with the language in the "Setup" menu mode. If both languages are different, select the same language with the Text language on the "Setup" menu.

## Selecting a Specific Teletext Page

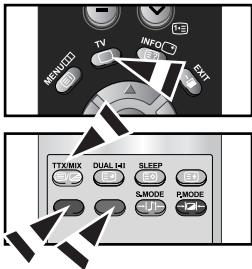


**Press the number buttons on the remote control to enter the page number directly:**

1. Enter the three-digit page number listed in the contents by pressing the corresponding numeric buttons.
2. If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the **↵** (E3). Press the **↵** (E3) button again to resume.
3. Using the various display options:

To display...	Press the...
Both teletext information and the normal broadcast	<b>TTX/MIX</b> (E1/E2)
Hidden text (answers to quiz games, for example)	<b>INFO</b> (E7)
The normal screen	<b>INFO</b> (E7)
A secondary page, by entering its 4-digit number	<b>DUAL I-II</b> (E8)
The next page	<b>P</b> (E1)
The previous page	<b>P</b> (E2)
Double-size letters in the:	(E9)
• Upper half of the screen	• Once
• Lower half of the screen	• Twice
Normal screen	• Three times

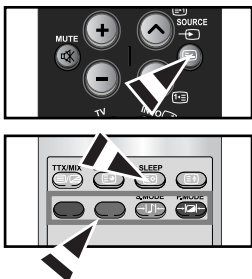
## Using Fastext to Select a Teletext Page



**The various topics included in the teletext pages are colour-coded, and can be selected by pressing the coloured buttons on the remote control.**

1. Display the teletext contents page by pressing the **TTX/MIX** (E1/E2) button.
2. Press the coloured button corresponding to the topic that you wish to select (The available topics are listed on the status information line).
3. Press the Red button to display the previous page. Press the Green button to display the next page.
4. Press the **TV** (E4) button again to exit from the Text display.

## Storing Teletext Pages



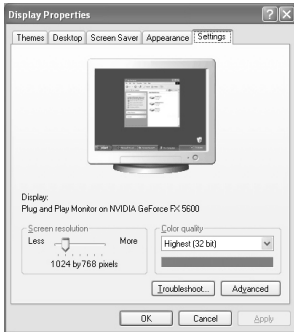
**You can store up to four teletext pages to display them later at leisure.**

1. Select the LIST mode using the **SOURCE** (E5) button.
  - The **SOURCE** (E5) button is used to switch between the LIST and FLOF modes.
2. Press the coloured button corresponding to the page that will be replaced.
3. Enter the new page number using the numeric buttons.
4. Repeat steps 2 and 3 for each page to be stored, using a different coloured button each time.
5. Press the **SLEEP** (E9) button until the corresponding blocks blink.

## SETTING THE PC

### Setting up Your PC Software (Based on Windows XP)

*The Windows display-settings for a typical computer are shown below. The actual screens on your PC may be 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 almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)*



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

The correct size setting (resolution):

Optimum - LE15S5: 1024 X 768

LE20S5: 800 X 600

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.

### Display Modes

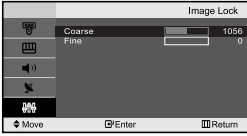
*Both screen position and size will vary depending on the type of PC monitor and its resolution.*

*The resolutions in the table are recommended. (All resolutions between the supported limits are supported)*

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
VGA	720X400	31.469	70.087	28.322	- / +
	640X480	31.469	59.940	25.175	- / -
	640X480	37.500	75.000	31.500	- / -
SVGA	800X600	46.875	75.000	49.500	+ / +
	800X600	37.879	60.317	40.000	+ / +
XGA LE15S5	1024X768	48.363	60.004	65.000	- / -
	1024X768	60.023	75.029	78.750	+ / +

- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.

## Setting the PC

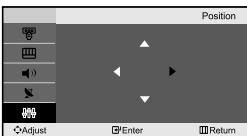


### Coarse and Fine Tuning of the Image (Image Lock):

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.



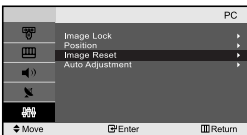
1. Preset: Press the **SOURCE** button to select PC mode.
2. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "PC", then press the **ENTER** button.
4. Press the **ENTER** button to select "Image Lock".
5. Press the **▲** or **▼** button to select "Coarse" or "Fine", then press the **ENTER** button.
6. Press the **◀** or **▶** button to adjust the screen quality. Press the **ENTER** button.
7. Press the **EXIT** button to exit.



### Changing the Image Position (Position):

Adjust the PC's screen positioning if it does not fit the TV screen.

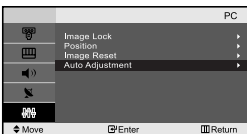
1. Follow the "Coarse and Fine Tuning of the Image (Image Lock)" instructions number 1 to 3.
2. Press the **▲** or **▼** button to select "Position", then press the **ENTER** button.
3. Press the **▲** or **▼** button to adjusting the Vertical-Position. Press the **◀** or **▶** button to adjust the Horizontal-Position. Press the **ENTER** button.
4. Press the **EXIT** button to exit.



### Initializing the Image Settings (Image Reset):

You can replace all image settings with the factory default values.

1. Follow the "Coarse and Fine Tuning of the Image (Image Lock)" instructions number 1 to 3.
2. Press the **▲** or **▼** button to select "Image Reset", then press the **ENTER** button.
3. Press the **EXIT** button to exit.



### Adjusting the PC Screen Automatically (Auto Adjustment):

Auto adjustment allows the PC screen of set to self-adjust to the incoming PC video signal. The values of fine, coarse and position are adjusted automatically.

1. Follow the "Coarse and Fine Tuning of the Image (Image Lock)" instructions number 1 to 3.
2. Press the **▲** or **▼** button to select "Auto Adjustment", then press the **ENTER** button.
3. Press the **EXIT** button to exit.

## RECOMMENDATIONS FOR USE

### Troubleshooting: Before Contacting Service Personnel

No sound or picture	<ul style="list-style-type: none"> <li>• Check that the mains lead has been connected to a wall socket.</li> <li>• Check that you have pressed the <b>POWER</b> ⏻ buttons on the right side of the panel.</li> <li>• Check the picture contrast and brightness settings.</li> <li>• Check the volume.</li> </ul>
Normal picture but no sound	<ul style="list-style-type: none"> <li>• Check the volume.</li> <li>• Check whether the <b>MUTE</b> 🔇 button has been pressed on the remote control.</li> </ul>
No picture or black and white picture	<ul style="list-style-type: none"> <li>• Adjust the colour settings.</li> <li>• Check that the broadcast system selected is correct.</li> </ul>
Sound and picture interference	<ul style="list-style-type: none"> <li>• Try to identify the electrical appliance that is affecting the set and move it further away.</li> <li>• Plug your set into a different mains socket.</li> </ul>
Blurred or snowy picture, distorted sound	<ul style="list-style-type: none"> <li>• Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.</li> </ul>
Remote control malfunctions	<ul style="list-style-type: none"> <li>• Replace the remote control batteries.</li> <li>• Clean the upper edge of the remote control (transmission window).</li> <li>• Check the battery terminals.</li> </ul>
"Check signal cable." message is displayed.	<ul style="list-style-type: none"> <li>• Check that the signal cable is firmly connected to the PC or video sources.</li> <li>• Check that the PC or video sources are turned on.</li> </ul>
On PC mode, "Not Supported Mode." message is displayed.	<ul style="list-style-type: none"> <li>• Check the maximum resolution and the frequency of the video adaptor.</li> <li>• Compare these values with the data in the Display Modes.</li> </ul>

The TFT LCD panel uses a panel consisting of sub pixels (LE15S5 - 2,359,296, LE20S5 - 1,440,000) 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.

### Technical and Environmental Specifications

Model Name	LE15S5	LE20S5
<b>Panel Size</b>	15" Diagonal	20" Diagonal
Display Size	304.1 (H) x 228.1 (V) mm	408.0 (H) x 306.0 (V) mm
Pixel Pitch	0.297 (H) x 0.297 (V) mm	0.6375 (H) x 0.6375 (V) mm
<b>Frequency</b>		
Horizontal / Vertical	30 ~ 69 kHz / 50 ~ 75 Hz	28 ~ 33 kHz / 50 ~ 75 Hz
<b>PC Resolution</b> (Optimum)	1024 x 768 @ 60 Hz	800 x 600 @ 60 Hz
<b>Power Supply</b> (Input)	AC 220 V ~ 240 V (50 / 60 Hz)	AC 220 V ~ 240 V (50 / 60 Hz)
<b>Power Consumption</b>		
Normal / Power Saving	40 W / < 3 W	55 W / < 3 W
<b>Dimension (WxDxH)</b>		
Body	496.0 x 82.0 x 333.0 mm	607.0 x 94.0 x 436.0 mm
With stand	496.0 x 170.0 x 359.0 mm	607.0 x 215.0 x 464.0 mm
<b>Weight</b>		
With stand	4.0 kg (8.81 lbs)	7.8 kg (17.19 lbs)
<b>Environmental Considerations</b>		
Operating Temperature	10 °C to 40 °C (50 °F to 104 °F)	10 °C to 40 °C (50 °F to 104 °F)
Operating Humidity	10 % to 80 %, non-condensing	10 % to 80 %, non-condensing
Storage Temperature	-20 °C to 45 °C (-4 °F to 113 °F)	-20 °C to 45 °C (-4 °F to 113 °F)
Storage Humidity	5 % to 95 %, non-condensing	5 % to 95 %, non-condensing

## Warning! Important Safety Instructions

Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.

### CAUTION

#### RISK OF ELECTRIC SHOCK DO NOT OPEN

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



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



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

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
- Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not place sources of heat on this apparatus, such as a candles, ash trays, incense or other similar items.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.).  
If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.  
You can clean this apparatus with damp cloth when necessary, but be sure to unplug the apparatus first.
- Do not expose this apparatus to extreme temperature conditions or to extreme humidity conditions.
- This apparatus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- To cut off the power source, unplug this apparatus from the wall outlet.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.  
This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Be sure to hold the plug, not the cord, when disconnecting this apparatus from an electric socket.
- Locate this apparatus near an easily accessible AC outlet.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it
  - unplug it immediately and contact an authorized dealer or service center.
- Unplug this apparatus from the AC outlet before any service.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
  - Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.

## Wiring the Mains Power Supply Plug(UK Only)

### IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS11362 of the same rating must be used. Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug. Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

### IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows: The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

### WARNING:

DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL , OR COLOURED GREEN OR GREEN AND YELLOW.

## Warranty Card



### UNITED KINGDOM

This Samsung product is warranted for a period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

**Samsung Electronics (U.K.) Ltd.,**  
**Unit C, Customer Care Centre, Stafford Park 12,**  
**TELFORD, Shropshire TF3 3BJ,**  
**Tel: 0870) 242 0303, Fax: 01952) 297617**

### WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursment will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured.



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