



COLOUR TELEVISION

Owner's Instructions

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

**ON-SCREEN MENUS
TELETEXT**



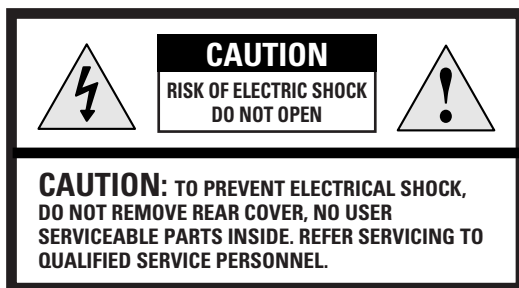
Safety Instructions

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- ◆ *Do not expose the television to extreme temperature conditions or to extreme humidity conditions.*
- ◆ *Do not expose the television to direct sunlight and other sources of heat.*
- ◆ *Do not expose the television to any liquids.*
- ◆ *Never put objects of any kind into the television, and do not place a water-containing vessel on the television.*
- ◆ *During a storm conditions (especially when there is lightning) unplug the television from the mains socket and aerial.*
- ◆ *Do not step on or twist the power cord.*
- ◆ *Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock.*
- ◆ *Please use a soft and dry cloth (not containing volatile matter) when you clean the TV.*
- ◆ *If the television is broken, do not try to repair it yourself. Contact qualified service personnel.*
- ◆ *If the remote control is not used for a long period of time, remove the batteries and store it in a cool, dry place.*
- ◆ *Do not drop the remote control.*

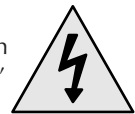
This device is not for use in industrial environments.

Caution




WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The lightning flash and arrow head within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.



 *The main voltage is indicated on the rear of the TV set and the frequency is 50 or 60Hz.*

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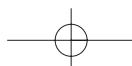
Press



Important



Note





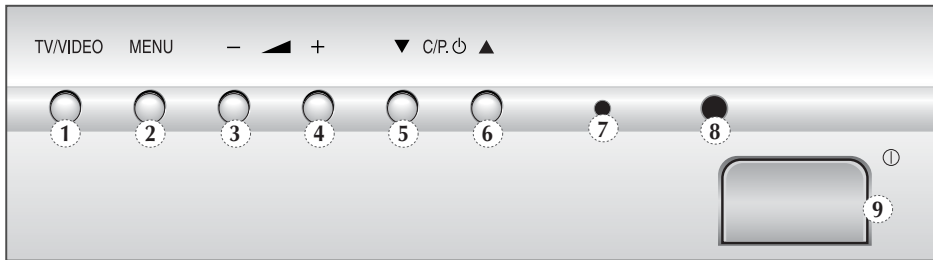
View of Your Television (depending on the model)

➤ The actual configuration on your TV may be different, depending on your model.

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Control Panels

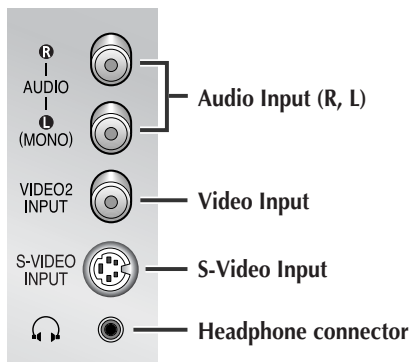
Front of the TV



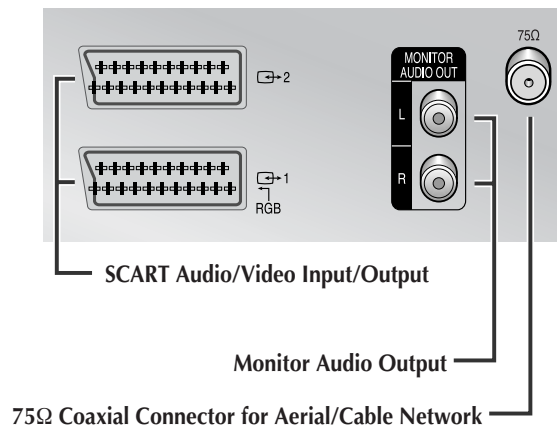
- | | |
|---------------------------|--------------------------|
| 1) Input source selection | 6) Next channel |
| 2) Menu display | 7) Standby indicator |
| 3) Volume decrease | 8) Remote control sensor |
| 4) Volume increase | 9) Power On/Off |
| 5) Previous channel | |

Connection Panels

Side of the TV

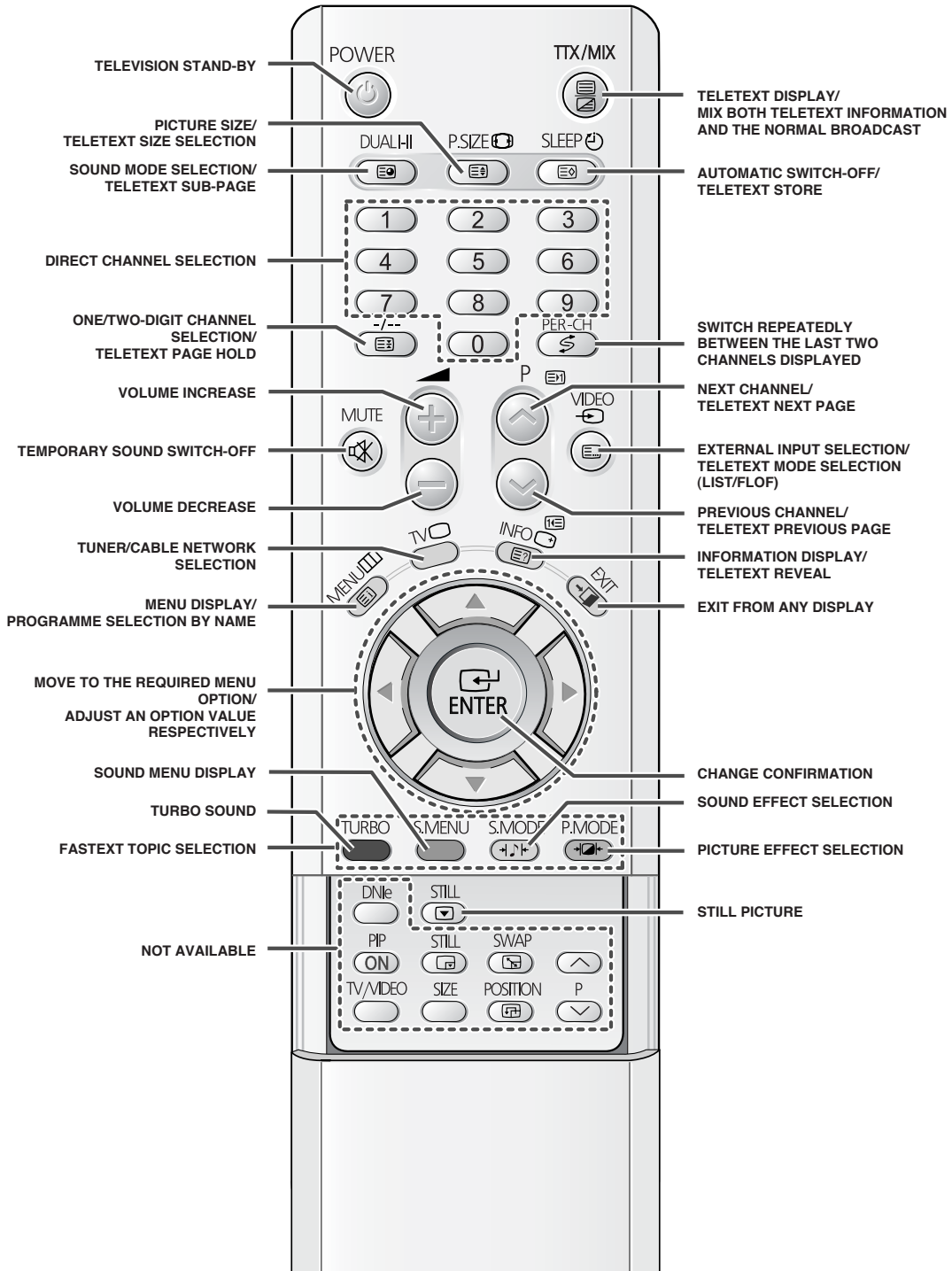


Rear of the TV



Infrared Remote Control

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➤ The performance of the remote control may be affected by bright light.

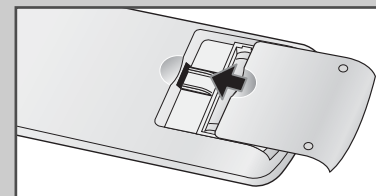
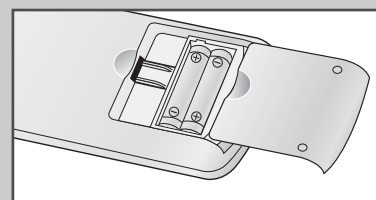
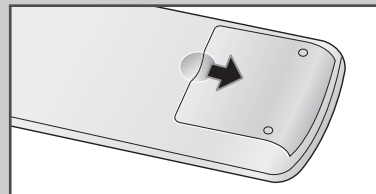


Inserting the Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

- ◆ *Purchase the television*
- ◆ *Find that the remote control is no longer operating correctly*

- 1 Remove the cover on the rear of the remote control by pressing the symbol (▼) downwards and then pulling firmly to remove it.
- 2 Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities:
 - ◆ - on the battery against - on the remote control
 - ◆ + on the battery against + on the remote control
- 3 Replace the cover by aligning it with the base of the remote control and pressing it back into place.



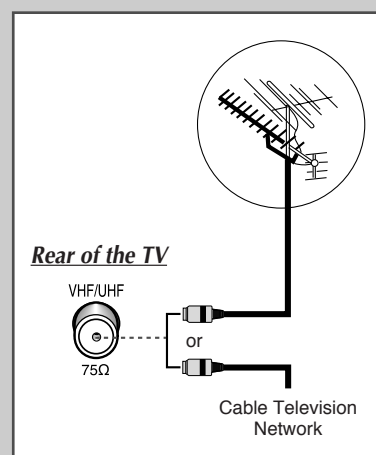
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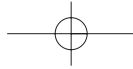
Connecting to an Aerial or Cable Television Network

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*

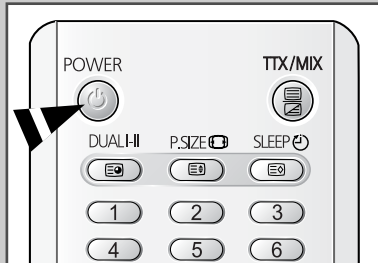
- 1 In the first three cases, connect the aerial or network input cable to the 75Ω coaxial socket on the rear of the television.
- 2 If you are using an indoor aerial, you may need to turn it when tuning your television until you obtain a picture that is both sharp and clear.
For further details, refer to:
 - ◆ "Storing Channels Automatically" on page 12
 - ◆ "Storing Channels Manually" on page 14





Switching Your Television On and Off

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The mains lead is attached to the rear of your television.

- ✎ If you have purchased this television in the United Kingdom, refer to page 37 for further instructions on plug wiring.

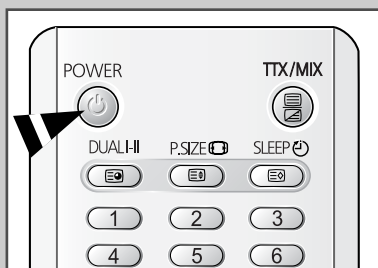
- 1 Plug the mains lead into an appropriate socket.
 - The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.
- 2 Press the “⏻” button (On/Off) on the front of the television.

Result: The Standby indicator on the front of the television lights up.
- 3 Press the **POWER** (⏻) button on the remote control to switch the television on.

Result: The programme that you were watching last is re-selected automatically.

 - If you have not yet stored any channels, No clear picture appears. Refer to “Storing Channels Automatically” on page 12 or “Storing Channels Manually” on page 14.
- 4 To switch your television off, press the “⏻” button (On/Off) again.

Placing Your Television in Standby Mode



Your television can be placed in Standby mode, in order to reduce:

- ◆ **Power consumption**
- ◆ **Wear of the cathode ray tube**

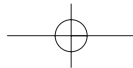
The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

- 1 Press the **POWER** (⏻) button on the remote control.

Result: The screen is turned off and the Standby indicator on the front of the television lights up in red.
- 2 To switch the television back on, simply press the **POWER** (⏻) button again.
 - You can also switch on by pressing the **P** (⏻) or (⏻) button.

- ✎ Do not leave your television in Standby mode for long periods of time (when you are away on holiday, for example). Turn your television off by pressing the “⏻” button (On/Off) on the front of the television. It is best to unplug the set from the mains and aerial.





Becoming Familiar with the Remote Control

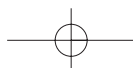
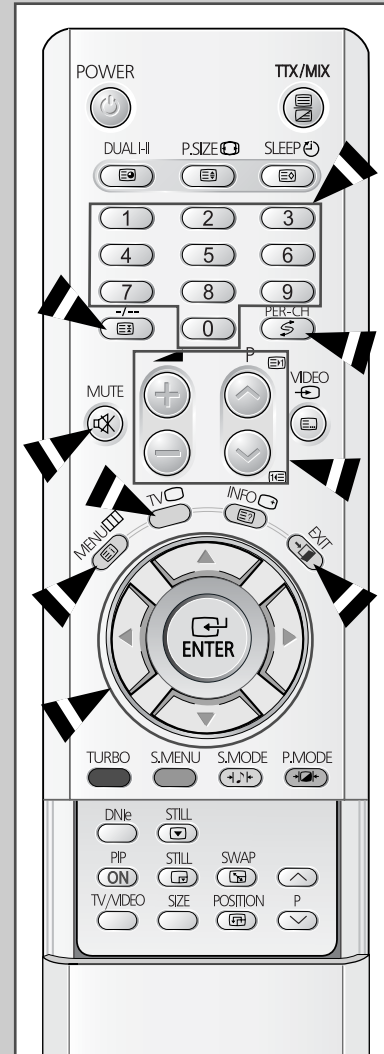
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The remote control is used mainly to:

- ◆ Change channels and adjust the volume
- ◆ Set up the television using the on-screen menu system

The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function
	Used to display the next stored channel.	-
	Used to display the previous stored channel.	-
0 to 9	Used to display the corresponding channels.	
-/--	Used to select a channel numbered ten or over. Press this button, and the "--" symbol is displayed. Enter the two-digit channel number.	
PRE-CH	Press the PRE-CH button. The TV will switch to the last channel viewed. To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select second channel. Then, use the PRE-CH button to quickly alternate between them.	
	Used to increase the volume.	-
	Used to decrease the volume.	-
MUTE	Used to switch the sound off temporarily. ➤ To turn the sound back on, press this button again, or press the or button.	
MENU	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
	-	Used to: <ul style="list-style-type: none"> ◆ Display a submenu containing selections for the current menu option ◆ Increase/decrease a menu option value
	-	Used to confirm your choice.
EXIT	-	Used to exit from the menu system and return to normal viewing directly.
TV	Used to switch the television on when it is in Standby mode.	Used to exit from the menu system and return to normal viewing directly



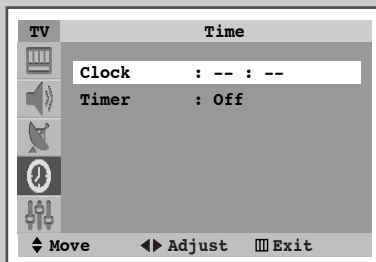
Plug & Play Feature

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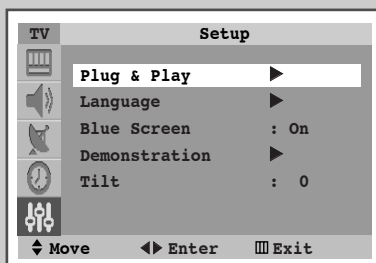
Plug & Play

Ant. Input Check

◀ Move ▢ Exit



Enjoy your watching.



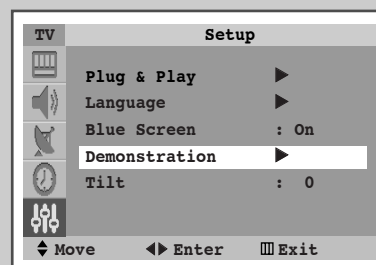
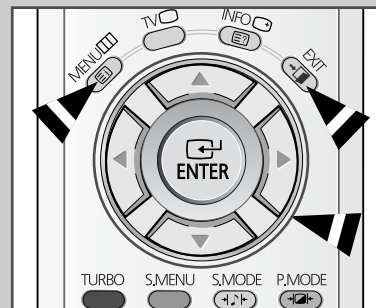
When the television is initially powered on, three basic customer settings proceed automatically and subsequently: setting the language, channel and clock.

- 1 If the television is in Standby mode, press the **POWER** (⏻) button on the remote control.
Result: The message **Plug & Play** is displayed. It flickers for a little while and then **Language** menu is automatically displayed.
- 2 Select the appropriate language by pressing the ▼ or ▲ button. Press the **MENU** (▢) button to enter the language.
Result: The message **Ant. Input Check** is displayed.
➤ If any language is not selected on the **Language** menu, the **Language** menu will disappear about 30 seconds later.
- 3 Make sure that the antenna is connected to the TV. Press the ◀ or ▶ button.
Result: The **Auto store** menu is displayed with **Country** is selected.
- 4 Select your country by pressing the ◀ or ▶ button. To search the channels, select **Search** by pressing the ▼ or ▲ button, and then press the ◀ or ▶ button. Press the **MENU** (▢) button to stop the search.
Result: The **Time** menu is displayed with **Clock** is selected.
➤ Refer to "Storing Channels Automatically" on page 12.
- 5 Press the ◀ or ▶ button to move to the hour or minute. Set the hour or minute by pressing the ▼ or ▲ button.
➤ Refer to "Setting and Displaying the Current Time" on page 28.
- 6 When you have finished, press the **MENU** (▢) button.
Result: The message **Enjoy your watching** is displayed, and then the channel which has been stored will be activated.
- 7 **If you want to reset this feature...**
 - 1 Press the **MENU** (▢) button.
 - 2 Press the ▼ or ▲ button to select **Setup**, and then press the ◀ or ▶ button.
Result: The **Plug & Play** is selected.
 - 3 Press the ◀ or ▶ button again.
Result: This feature starts with the message **Plug & Play** is displayed.

Viewing the Demonstration

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

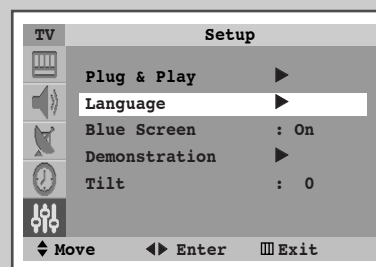
- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the ◀ or ▶ button.
- 4 Press the ▼ or ▲ button to select **Demonstration**.
- 5 Press the ◀ or ▶ button.
Result: Each of the menu options is displayed in turn.
 - When you wish to exit from the demonstration, press the **EXIT** (→□) button on the remote control.



Choosing Your Language

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

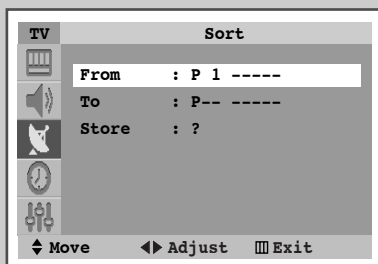
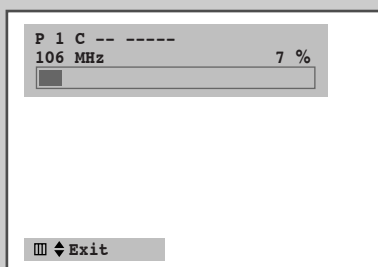
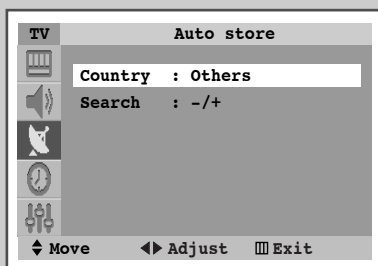
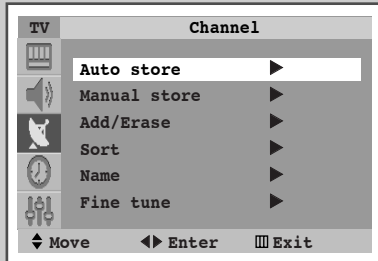
- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the ◀ or ▶ button.
- 4 Press the ▼ or ▲ button to select **Language**.
- 5 Select the appropriate language by pressing the ◀ or ▶ button repeatedly.



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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.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Channel1**.
Result: The options available in the **Channel1** group are displayed.
- 3 Press the ◀ or ▶ button.
Result: The **Auto store** is selected.
- 4 Press the ◀ or ▶ button again.
Result: The options available in the **Auto store** group are displayed with **Country** is selected.
- 5 Select your country by pressing the ◀ or ▶ button. The countries are displayed in the following order: **Others - Belgie - Deutschland - España - France - Italia - Nederland - Schweiz - Sverige - UK - East Europe**
- 6 Press the ▼ or ▲ button to select **Search**.
- 7 Press the ◀ or ▶ button to start the search.
Result: The horizontal bar is displayed, and then channels are stored in an order which reflects their positions in the frequency range. Finally, the search will end automatically.
➤ To stop the search before it has finished, press the **MENU** (□□□) button.
- 8 When searching and storing are complete, the **Sort** menu is displayed.
 - ◆ To sort the stored channels into the desired numerical order, go to Step 6 of the "Sorting the Stored Channels" procedure on page 13.
 - ◆ To exit from the channel store function without sorting the channels, press the **MENU** (□□□) button repeatedly until the menus disappear.
- 9 When the channels have been stored, you can:
 - ◆ Sort them in the order required (refer to page 13)
 - ◆ Clear a channel (refer to page 16)
 - ◆ Assign a name to the stored channels (refer to page 17)
 - ◆ Fine tune channel reception if necessary (refer to page 18)
 - ◆ Activate the Digital Noise Reduction feature (refer to page 21)

Sorting the Stored Channels

This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using auto store. You can delete the channels you do not want to keep.

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.

- 2 Press the ▼ or ▲ button to select **Channel**.
Result: The options available in the **Channel** group are displayed.

- 3 Press the ◀ or ▶ button.

- 4 Press the ▼ or ▲ button to select **Sort**.

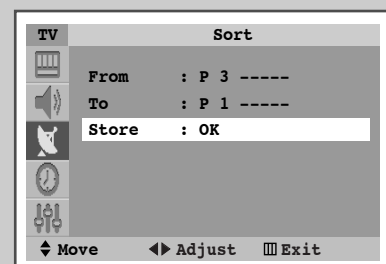
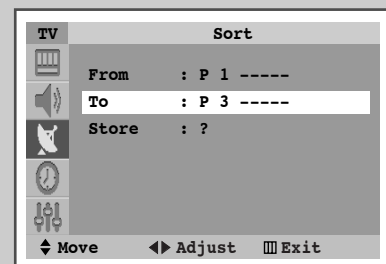
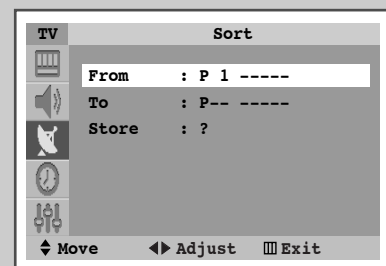
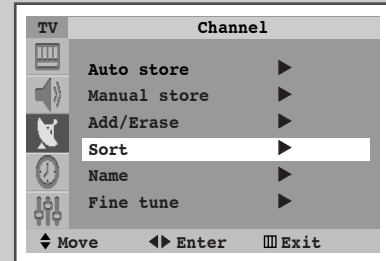
- 5 Press the ◀ or ▶ button.
Result: The options available in the **Sort** group are displayed with **From** is selected.

- 6 Select the channel number that you wish to change by pressing the ◀ or ▶ button repeatedly.

- 7 Press the ▼ or ▲ button to select **To**. Select the new channel number which you wish to identify by pressing the ◀ or ▶ button repeatedly.
➤ You can also select the channel number directly by pressing the numeric buttons (0~9).

- 8 Press the ▼ or ▲ button to select **Store**. Select **OK** to confirm the exchange of channel numbers by pressing the ◀ or ▶ button.
Result: The selected channel is exchanged with the one previously stored to the chosen number.

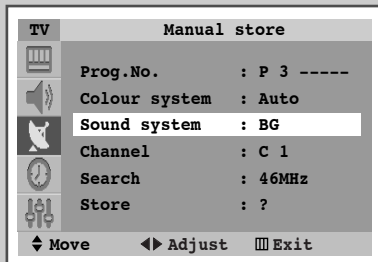
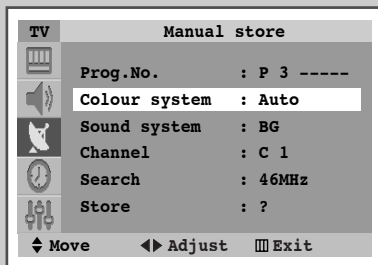
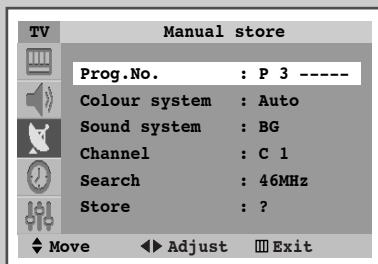
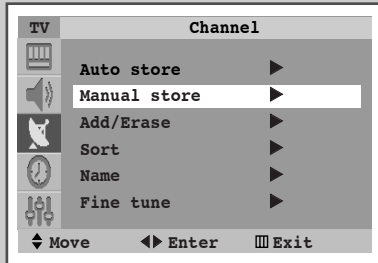
- 9 For all the channels to move to the required channel numbers, repeat steps 6 to 8 after selecting the **From** by pressing the ▼ or ▲ button.



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Storing Channels Manually



You can store up to 100 television 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.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Channel**.
Result: The options available in the **Channel** group are displayed.
- 3 Press the ◀ or ▶ button.
- 4 Press the ▼ or ▲ button to select **Manual store**.
- 5 Press the ◀ or ▶ button.
Result: The options available in the **Manual store** group are displayed with **Prog.No.** is selected.
- 6 To assign a programme number to a channel, press the ◀ or ▶ button.
- 7 Press the ▼ or ▲ button to select **Colour system**. Indicate the broadcasting standard required by pressing the ◀ or ▶ button repeatedly.
Result: The colour standards are displayed in the following order:
Auto - PAL - SECAM - NT4.43.
- 8 Press the ▼ or ▲ button to select **Sound system**. Select the sound standard required by pressing the ◀ or ▶ button repeatedly.
Result: The sound standards are displayed in the following order:
BG - DK - I - L.

Storing Channels Manually (continued)

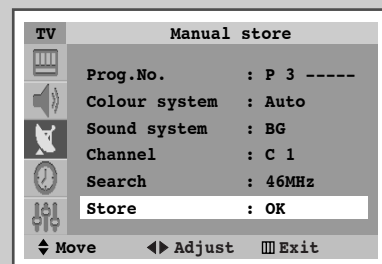
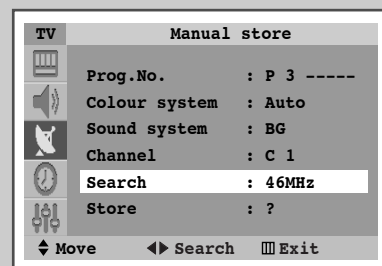
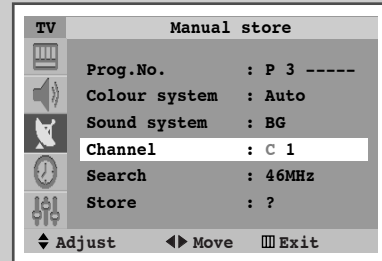
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- 9** If you know the number of the channel to be stored, see the following steps.
- ◆ Press the ▼ or ▲ button to select **Channel**.
 - ◆ Press the ► button.
 - ◆ Press the ▼ or ▲ button to select **C** (Air channel) or **S** (Cable channel).
 - ◆ Press the ► button.
 - ◆ Press the ▼ or ▲ button to select indicate the required number.
 - You can also select the channel number directly by pressing the numeric buttons (0~9).
 - If no sound or abnormal sound, re-select the sound standard required.
- 10** If you do not know the channel numbers, select **Search** by pressing the ▼ or ▲ button. Press the ◀ or ▶ button to start the search.
- Result:** The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.
- 11** To store the channel and associated programme number, select **Store** by pressing the ▼ or ▲ button. Press the ◀ or ▶ button to select **OK**.
- 12** Repeat Steps 9 to 11 for each channel to be stored.



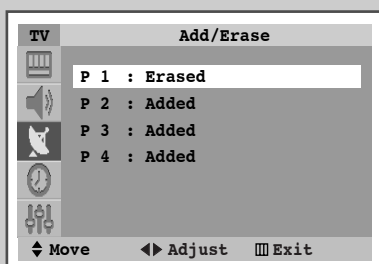
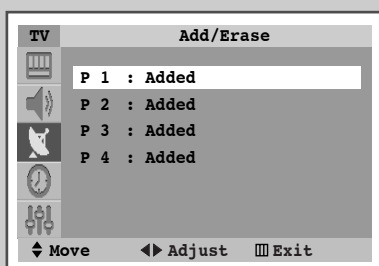
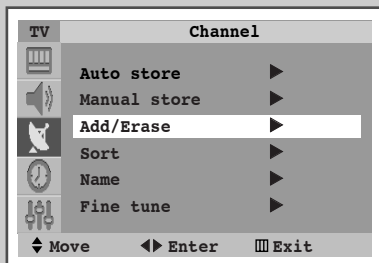
Channel mode

- ◆ **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to max P99. You can select a channel by entering the position number in this mode.
- ◆ **C** (Real channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- ◆ **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.



Skipping Unwanted Channels

ENG



You can exclude the channels you chosen from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed.

All of the channels that you do not specifically choose to skip are displayed during scanning.

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Channel1**.
Result: The options available in the **Channel1** group are displayed.
- 3 Press the ◀ or ▶ button.
- 4 Press the ▼ or ▲ button to select **Add/Erase**.
- 5 Press the ◀ or ▶ button.
Result: The stored channels are displayed.
- 6 Press the ▼ or ▲ button to select the channel to add or erase. If necessary, select **Added** or **Erased** by pressing the ◀ or ▶ button.
- 7 Repeat Step 6 for each channel to be added or erased.

Assigning Names to Channels

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.
Result: The main menu is displayed.

- 2 Press the ▼ or ▲ button to select **Channel1**.
Result: The options available in the **Channel** group are displayed.

- 3 Press the ◀ or ▶ button.

- 4 Press the ▼ or ▲ button to select **Name**.

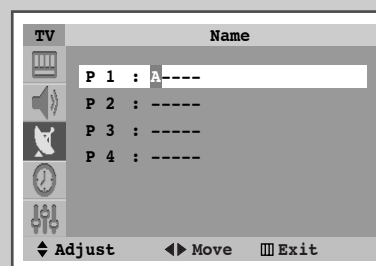
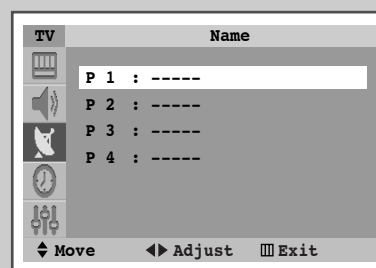
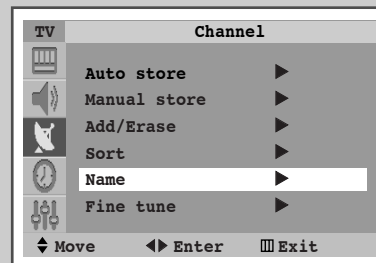
- 5 Press the ◀ or ▶ button.
Result: The current channels are displayed.

- 6 If necessary, select the channel to be assigned to a new name by pressing the ▼ or ▲ button.

- 7 Press the ◀ or ▶ button.

- 8 Press the ▼ or ▲ button to select a letter (A~Z), a number (0~9) or a symbol (-, space). Move on the previous or next letter by pressing the ◀ or ▶ button.

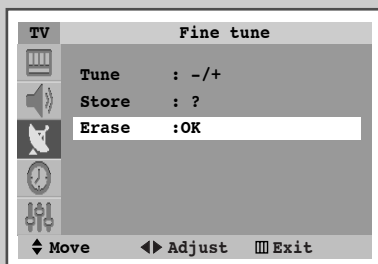
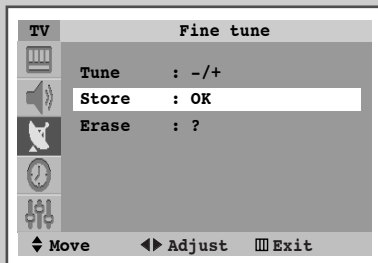
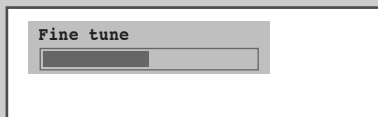
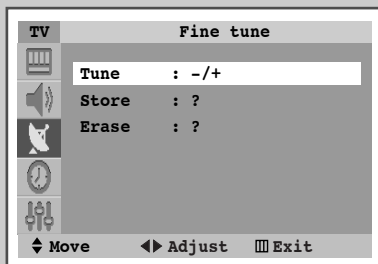
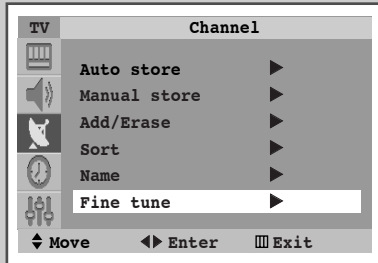
- 9 Repeat Steps 6 to 8 for each channel to be assigned to a new name.



ENG

Fine Tuning Channel Reception

ENG



If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

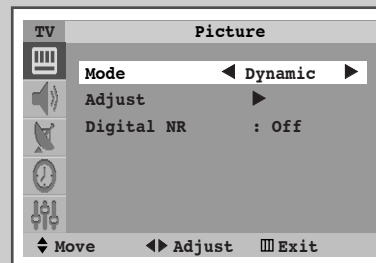
- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Channel**.
Result: The options available in the **Channel** group are displayed.
- 3 Press the ◀ or ▶ button.
- 4 Press the ▼ or ▲ button to select **Fine tune**.
- 5 Press the ◀ or ▶ button.
Result: The options available in the **Fine tune** group are displayed with **Tune** is selected.
- 6 To obtain a sharp and clear picture and good sound quality, press the ◀ or ▶ button.
Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.
- 7 To memorise adjusted picture or sound, select **Store** by pressing the ▼ or ▲ button. Press the ◀ or ▶ button.
Result: **OK** is displayed.
- 8 To erase adjusted picture or sound, select **Erase** by pressing the ▼ or ▲ button. Press the ◀ or ▶ button.
Result: **OK** is displayed.

Changing the Picture Standard

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

- 1 Press the **MENU** (□□□) button.
Result: The options available in the **Picture** group are displayed.
- 2 Press the ◀ or ▶ button.
Result: The **Mode** is selected.
- 3 Select the required picture effect by pressing the ◀ or ▶ button repeatedly.
Result: The following picture effects are available:
Dynamic – Standard – Movie – Custom.

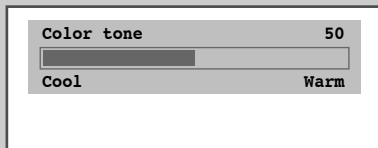
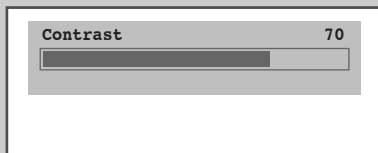
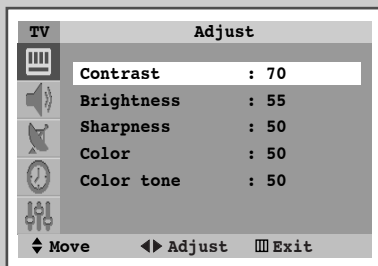
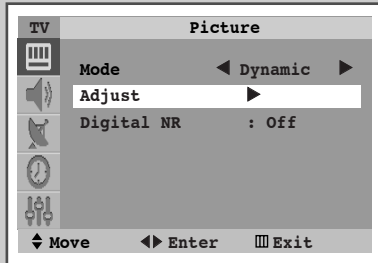
➤ You can also set these options simply by pressing the **P.MODE** (▶◀) (Picture Mode) button.



ENG

Adjusting the Picture Settings

ENG



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

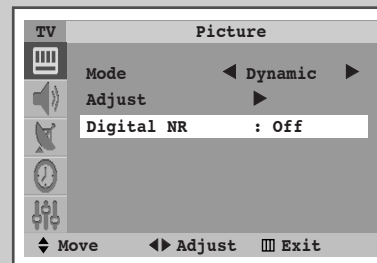
- 1 Press the **MENU** (□□□) button.
Result: The options available in the **Picture** group are displayed.
- 2 Press the ◀ or ▶ button.
- 3 Press the ▼ or ▲ button to select **Adjust**.
- 4 Press the ◀ or ▶ button.
Result: The options available in the **Adjust** group are displayed.
- 5 Press the ▼ or ▲ button to select the option (**Contrast**, **Brightness**, **Sharpness**, **Colour**, **Colour tone** or **Tint-NTSC** only) to be adjusted. Press the ◀ or ▶ button.
Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.

- ◆ If you make any changes to these settings, the picture standard is automatically switched to **Custom**.
- ◆ The television has an "automatic degaussing" system that is activated if magnetic interference is present. To degauss the television screen, switch power off by pressing the "Ⓚ" (On/Off) button on the front panel. (Refer to "Automatic Degaussing to Remove Colour Patches" on page 36.)

Activating/Deactivating the Digital Noise Reduction Feature

If the signal received by your television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

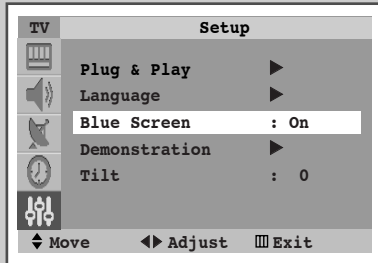
- 1 Press the **MENU** button.
Result: The options available in the **Picture** group are displayed.
- 2 Press the ◀ or ▶ button.
- 3 Press the ▼ or ▲ button to select **Digital NR**.
- 4 To activate this feature, select **On** by pressing the ◀ or ▶ button.



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Setting the Blue Screen

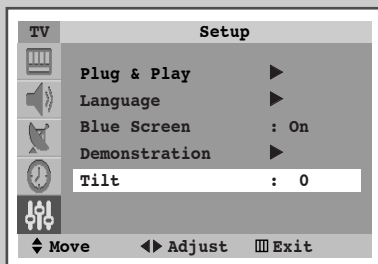


If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the ◀ or ▶ button.
- 4 Press the ▼ or ▲ button to select **Blue Screen**.
- 5 To activate this feature, select **On** by pressing the ◀ or ▶ button.

Using the Tilt Control Feature



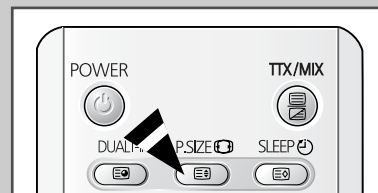
If you find that the picture received is slightly tilted to one side, you can adjust the tilt setting.

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the ◀ or ▶ button.
- 4 Press the ▼ or ▲ button to select **Tilt**.
- 5 Press the ◀ or ▶ button to reach the required setting (-7 to +7).

Selecting the Picture Size

You can select the picture size which best corresponds to your viewing requirements simply by pressing the "P.SIZE (P)" button. Depending on the model, the following picture sizes are available:

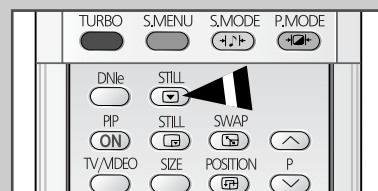
- ◆ Normal, Zoom1, Zoom2, 16:9
- ◆ 16:9, Panorama, Zoom1, Zoom2, 4:3, Auto Wide



Freezing the Current Picture

You can freeze the picture when watching a television programme simply by pressing the "STILL (P)" button.

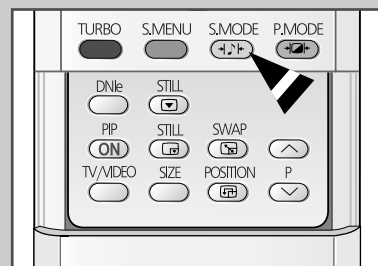
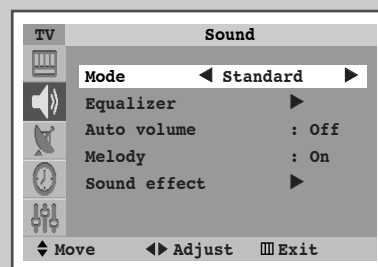
- To return to normal viewing, press this button again.



Changing the Sound Standard

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

- 1 Press the **MENU** (□) button.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Sound**.
Result: The options available in the **Sound** group are displayed.
- 3 Press the ◀ or ▶ button.
Result: The **Mode** is selected.
- 4 Select the required sound effect by pressing the ◀ or ▶ button repeatedly.
Result: The following sound effects are available:
Standard - Music - Movie - Speech (SVE) - Custom.
 - ◆ **SVE** : **SAMSUNG** Voice **E**nhancement **T**echnic

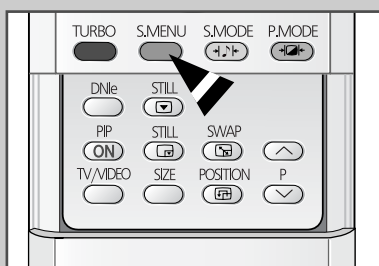
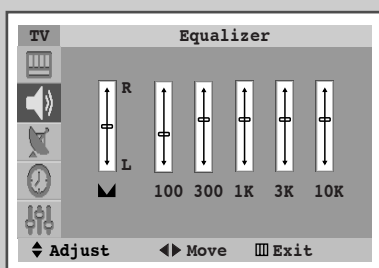
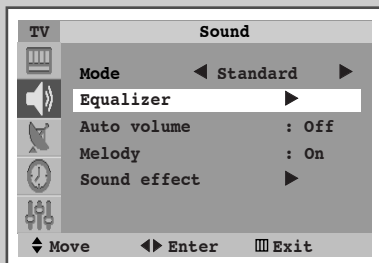


- You can also set these options simply by pressing the **S.MODE**(S) (Sound Mode) button.

ENG

Adjusting the Sound Settings

ENG



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

- 1 Press the **MENU** (□□□) button.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Sound**.
Result: The options available in the **Sound** group are displayed.
- 3 Press the ◀ or ▶ button.
- 4 Press the ▼ or ▲ button to select **Equalizer**.
- 5 Press the ◀ or ▶ button.
Result: The options available in the **Equalizer** group are displayed.
➤ You can also display this group simply by pressing the **S.MENU** (Sound Menu) button.
- 6 Select the option to be adjusted by pressing the ◀ or ▶ button. Press the ▼ or ▲ button to reach the required setting.

➤ If you make any changes to these settings, the sound standard is automatically switched to **Custom**.



Extra Sound Settings

ENG

◆ **Auto volume**

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 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 melody sound when the television is powered on or off.

◆ **Turbo sound**

This feature suitably emphasizes both higher and lower bands of sound (and includes other effects). You can enjoy more magnificent and dynamic sound when watching music, movie, or other channels.

◆ **Pseudo stereo / Virtual surround**

Pseudo stereo feature converts a monaural sound signal into two identical left and right channels.

Once the **Pseudo stereo** or **Virtual surround** is set to **On** or **Off**, these settings apply to the sound effects such as **Standard**, **Music**, **Movie**, and **Speech(SVE)**.

- 1 Press the **MENU** button.
Result: The main menu is displayed.

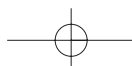
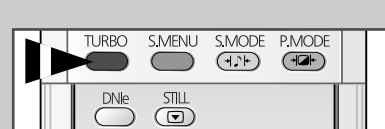
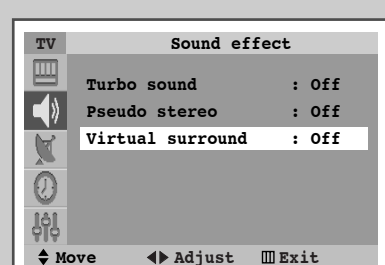
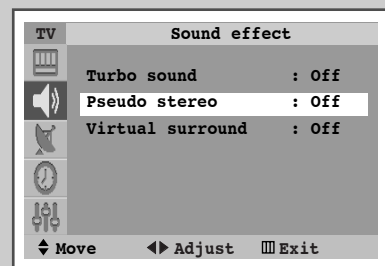
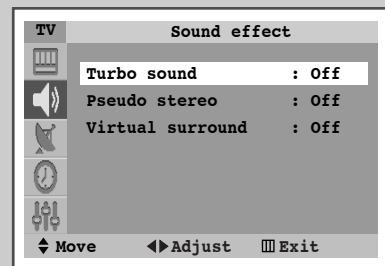
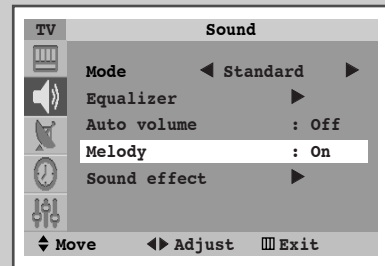
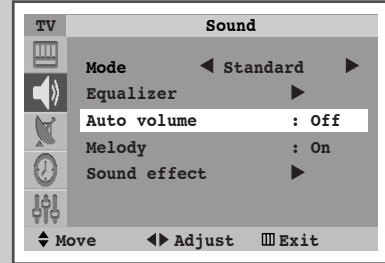
- 2 Press the **▼** or **▲** button to select **Sound**.
Result: The options available in the **Sound** group are displayed.

- 3 Press the **◀** or **▶** button.

- 4 Select the required option (**Auto volume**, **Melody**, **Turbo sound**, **Pseudo stereo** or **Virtual surround**) by pressing the **▼** or **▲** button.
 - To select **Turbo sound**, **Pseudo stereo** and **Virtual surround**, select **Sound effect** by pressing the **▼** or **▲** button and press the **◀** or **▶** button.
 - You can select the turbo sound feature simply by pressing the **TURBO** button.

- 5 To activate each feature, select **On** by pressing the **◀** or **▶** button.

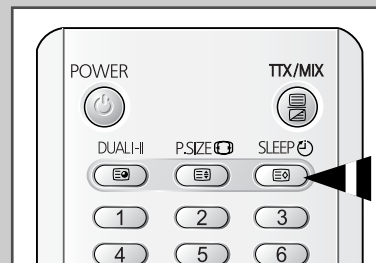
➤ Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.



Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after the television automatically switches to Standby mode by pressing the "SLEEP (⏸)" button.

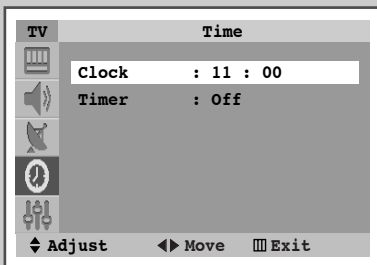
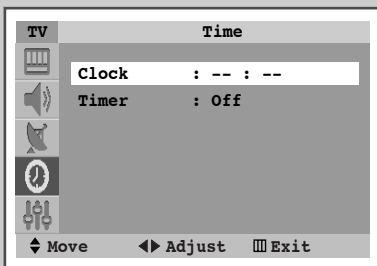
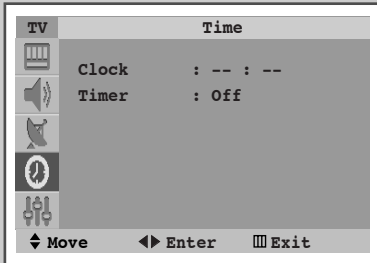
- 1 Press the **SLEEP** (⏸) button on the remote control.
Result: If the sleep timer is not yet set, **off** is displayed. If the sleep timer is already set, the screen displays the remaining time and then before the television will be placed in standby mode.
- 2 Press the **SLEEP** (⏸) button repeatedly and cycle through the preset time intervals (30, 60, 90, 120, 150, 180, Off).
Result: The television automatically switches to standby mode when the timer reaches 0.
- 3 To cancel the sleep timer feature, press the **SLEEP** (⏸) button repeatedly and select **off**.



ENG

Setting and Displaying the Current Time

ENG



You can set the television's clock so that the current time is displayed by pressing the "INFO ()" button. You must also set the time if you wish to use the automatic on or off timers.

➤ When pressing the "Ⓚ" button (On/Off) on the front of the television, the clock setting will be reset.

- 1 Press the **MENU** () button.
Result: The main menu is displayed.

- 2 Press the **▼** or **▲** button to select **Time**.
Result: The options available in the **Time** group are displayed.

- 3 Press the **◀** or **▶** button.
Result: The **Clock** is selected.

- 4 Press the **◀** or **▶** button to move to the hour or minute. Set the hour or minute by pressing the **▼** or **▲** button.

- 5 When you have finished, press the **TV** () button to exit.

- 6 **To...** **Press the "INFO ()" button...**

display the channel information	Once.
display the current time	Twice.
remove the display	Three times.

Switching the Television On and Off Automatically

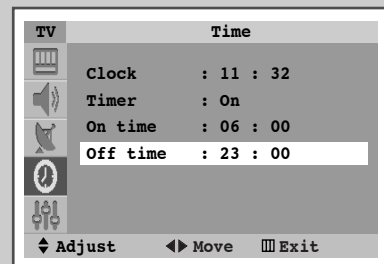
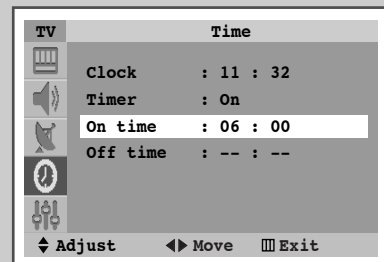
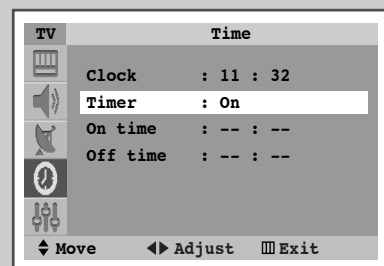
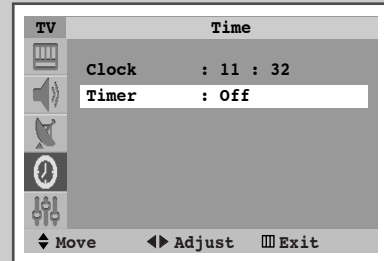
ENG

You can set the On/Off timers so that the television 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

➤ The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the previous page). If you have not yet set the clock, the message **Set the clock first** is displayed.

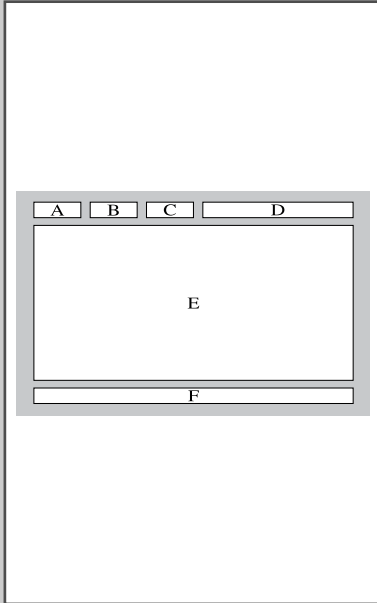
- 1 Press the **MENU** (□) button.
Result: The main menu is displayed.
- 2 Press the ▼ or ▲ button to select **Time**.
Result: The options available in the **Time** group are displayed.
- 3 Press the ◀ or ▶ button.
- 4 Press the ▼ or ▲ button to select **Timer**.
- 5 Press the ◀ or ▶ button to set **On**
Result: The **On Time** and **Off Time** are displayed.
- 6 Press the ▼ or ▲ button to select **On Time**. Set the time at which you wish the television to be switched on automatically.
 - ◆ Press the ◀ or ▶ button to move to the hour or minute. Set these by pressing the ▼ or ▲ button.
- 7 Press the ▼ or ▲ button to select **Off Time**. In the same above, set the time at which you wish the television to be switched off automatically.





Teletext Feature

ENG



Most television channels provide written information services via teletext. Information provided includes:

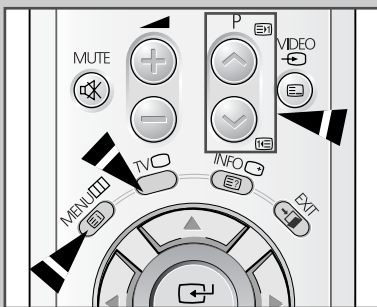
- ◆ Television programme times
- ◆ News bulletins and weather forecasts
- ◆ Sports results
- ◆ Travel information

This information is divided into numbered pages (see diagram).

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

- It can be different from depending on TTX source.
- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
 - ◆ Entering the page number
 - ◆ Selecting a title in a list
 - ◆ Selecting a coloured heading (FASTEXT system)

Displaying the Teletext Information

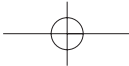


You can display Teletext information at any time on your television.

- ☞ For Teletext information to be displayed correctly, channel reception must be stable; otherwise:
 - ◆ Information may be missing
 - ◆ Some pages may not be displayed

- 1 Select the channel providing the Teletext service using the or button.
- 2 Press the **TTX/MIX** () button to activate the teletext mode.
Result: The contents page is displayed. It can be redisplayed at any time by pressing the (index) button.
- 3 If you wish to display the actual broadcast at the same time as the teletext page, press the **TTX/MIX** () button again.
- 4 Press the **TV** () button to exit from the teletext display.





Selecting a Page by Number

ENG

You can enter the page number directly by pressing the numeric buttons on the remote control.

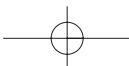
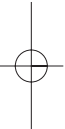
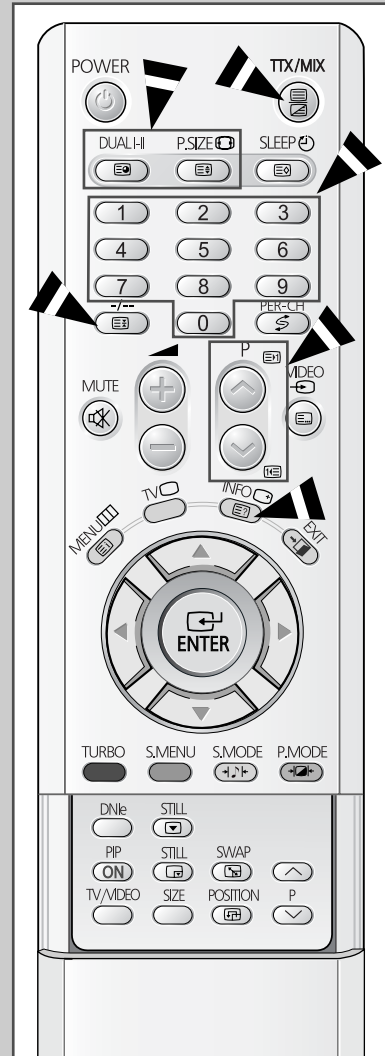
- 1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.

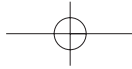
Result: The current page counter is incremented and the page is then displayed.

- 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 (hold). Press the (hold) again to resume.

Using the various display options:

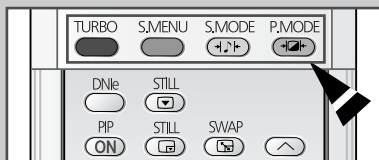
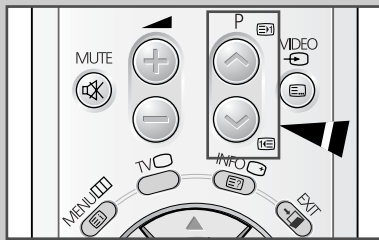
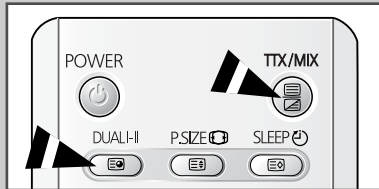
To display...	Press the...
◆ Both teletext information and the normal broadcast	TTX/MIX ()
◆ Hidden text (answers to quiz games, for example)	(reveal)
◆ The normal screen	(reveal) again
◆ A secondary page, by entering its 4-digit number	(sub-page)
◆ The next page	(page up)
◆ The previous page	(page down)
◆ Double-size letters in the: <ul style="list-style-type: none"> • Upper half of the screen • Lower half of the screen 	(size) <ul style="list-style-type: none"> • Once • Twice
◆ Normal screen	• Three times





ENG

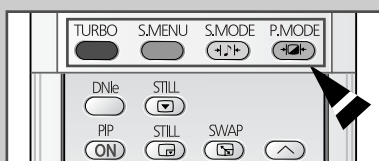
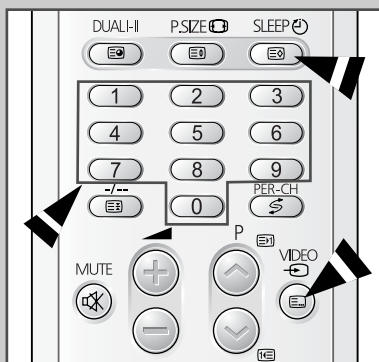
Using FLOF to Select a Page



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

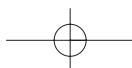
- 1 Display the teletext contents page by pressing the **TTX/MIX** (≡/☒) button.
- 2 Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.
Result: The page is displayed with other coloured information that can be selected in the same way.
- 3 To display the previous or next page, press the corresponding coloured button.
- 4 To display the subpage, see the following steps.
 - ◆ Press the **☒** (sub-page) button.
Result: The available subpages appear.
 - ◆ Select the required sub-page. Sub-pages can be scrolled by using the **TURBO** (Red) or **S.MENU** (Green) button.

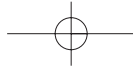
Storing Teletext Pages



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

- 1 Select the LIST mode using the **☒** button.
Result: Four 3-digit numbers are displayed in different colours.
➤ The **☒** 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 **☒** (store) button until the corresponding blocks blink.



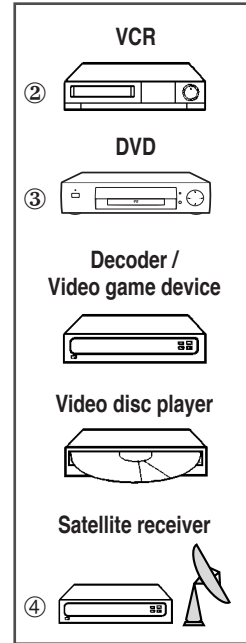
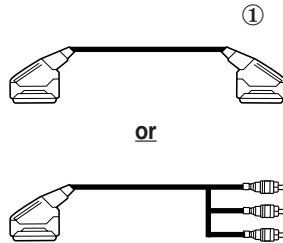
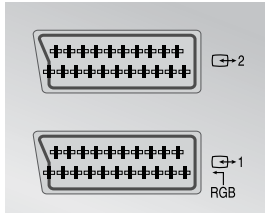


Connecting to the External Input/Outputs

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- “ 1” is used for the equipment with an RGB output, such as video game devices or video disc players.

Rear of the TV

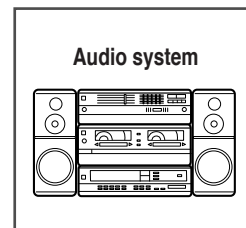
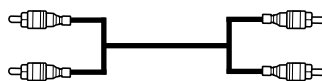
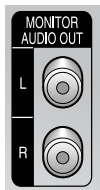


- ① This end can be fitted with:
 - ◆ A SCART connector
 - ◆ Three RCA connectors (Video + Audio-L and R)
- ② If you have a second VCR and wish to copy cassettes tape, connect the source VCR to “ 1” and the target VCR to “ 2” so that you can redirect the signal from “ 1” to “ 2”.
- ③ If you have a decoder, connect the decoder to the VCR and the VCR to the television.
- ④ When you wish to record a programme, connect the receiver to “ 1” and the VCR to “ 2” so that you can redirect the signal from “ 1” to “ 2”.

Connecting to the Audio Output

- The “**MONITOR AUDIO OUT**” (RCA) connectors are used for equipment, such as an audio system (to take full advantage of the Surround sound effect).

Rear of the TV

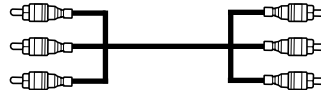
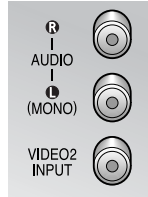


ENG

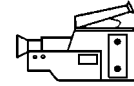
Connecting to the RCA Input

- The RCA (VIDEO and AUDIO-L+R) connectors are used for equipment, such as camcorders, video disc players, and some video game devices.

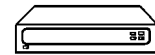
Side of the TV



Camcorder



Video game device



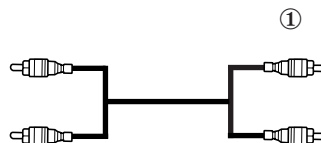
Video disc player



Connecting to the S-Video Input

- The S-VIDEO and RCA (AUDIO-L+R) connectors are used for equipment with an S-Video output, such as a camcorder or VCR.

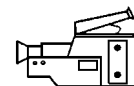
Side of the TV



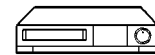
and



Camcorder



VCR



- ① To play pictures and sound, both the S-VIDEO and RCA connectors must be used.

- When both the side AV and rear connectors are connected to external equipments, the side AV receives priority.

- ☞ Whenever you connect an audio or video system to your television, ensure that **all** elements are switched **off**. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connecting Headphones

You can connect a set of headphones to your television if you wish to watch a television programme without disturbing the other people in the room.

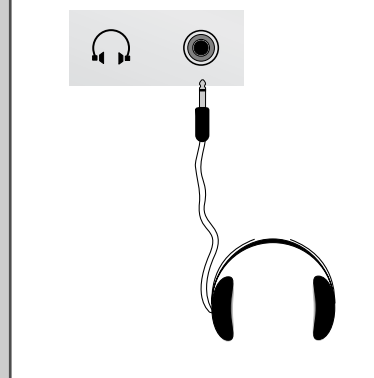
- 1 Plug a set of headphones into the 3.5 mm mini-jack socket of the television.

Result: The sound is heard through the headphones.

- 2 When you wish to hear the sound through the speakers again, simply disconnect the headphones.

➤ Prolonged use of headphones at a high volume may damage your hearing.

Side of the TV



ENG

Viewing Pictures From External Sources

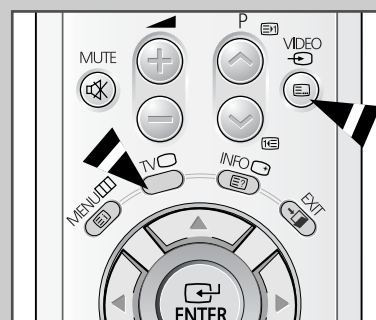
Once you have connected up your various audio and video systems, you can view different sources by selecting the appropriate input.

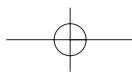
- 1 Check that all the necessary connections have been made.
- 2 Switch your television on, then press the **VIDEO** (→) button repeatedly.

Result: The input sources are displayed in the following order:

AV1 – AV2 – S-Video (Option)

- Depending on the source selected, the pictures may appear automatically.
- To watch television programmes again, press the **TV** (□) button and select the number of the channel required.





Automatic Degaussing to Remove Colour Patches

ENG

A degaussing coil is mounted around the picture tube, so you do not normally need to degauss the television manually.

If you move the television to a different position and color patches appear on the screen, you must:

- ◆ Switch the television off by pressing the “⏻” (On/Off) button on the front panel
- ◆ Unplug the television from the wall socket
- ◆ Leave the television power-off for about 30 minutes so that the automatic degauss function can be activated, and then press the “POWER(⏻)” button on the remote control.



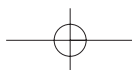
If your television will be left unattended, press the “⏻” (On/Off) button to turn your television off.

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	<ul style="list-style-type: none"> ◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the “⏻” button (On/Off) and the POWER (⏻) button. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	<ul style="list-style-type: none"> ◆ Check the volume. ◆ Check whether the MUTE (🔇) button on the remote control has been pressed.
No picture or black and white picture	<ul style="list-style-type: none"> ◆ Adjust the colour settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	<ul style="list-style-type: none"> ◆ Try to identify the electrical appliance that is affecting the television, then move it further away. ◆ Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	<ul style="list-style-type: none"> ◆ Check the direction, location and connections of your aerial. This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	<ul style="list-style-type: none"> ◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.



Wiring the Mains Power Supply Plug (UK Only)

ENG

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 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:

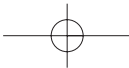
BLUE - NEUTRAL BROWN - LIVE

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.

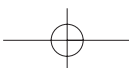
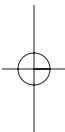
The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

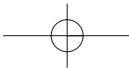
WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL \perp , OR COLOURED GREEN OR GREEN AND YELLOW.



MEMO

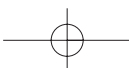
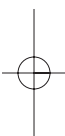
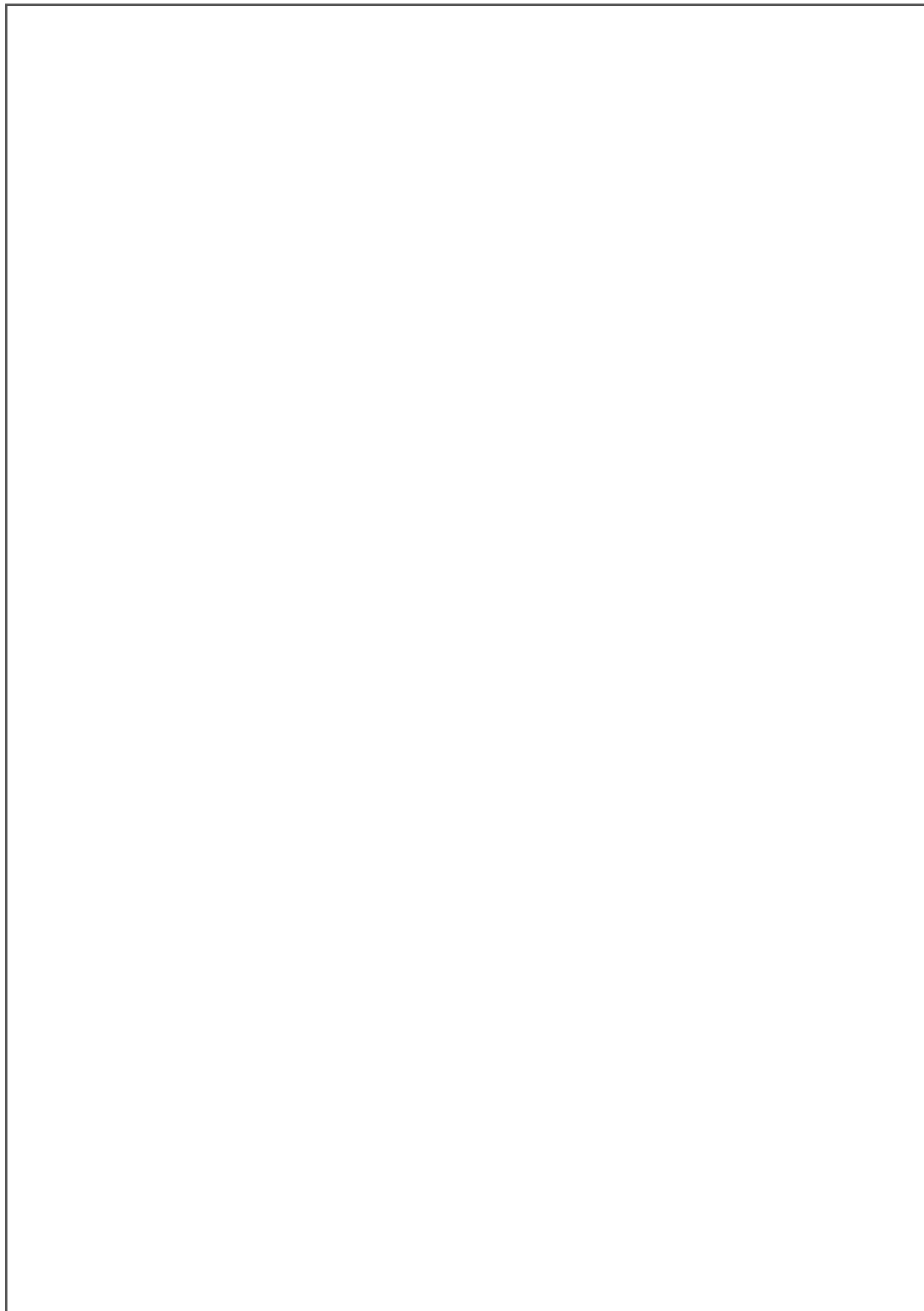
ENG





MEMO

ENG





- AFTER SALES SERVICE

- 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.

