

SAMSUNG

COLOUR TELEVISION

SP43H3HT

Owner's Instructions

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

**PICTURE IN PICTURE (PIP)
TELETEXT
SELF FOCUS**

DNie™

DD DOLBY
DIGITAL
PRO LOGIC II

DIGITAL
ds
SURROUND

Important Warranty Information Regarding Television Format Viewing

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

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

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

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

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Symbols



Press



Important

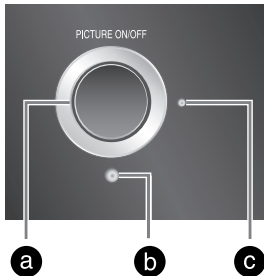


Note

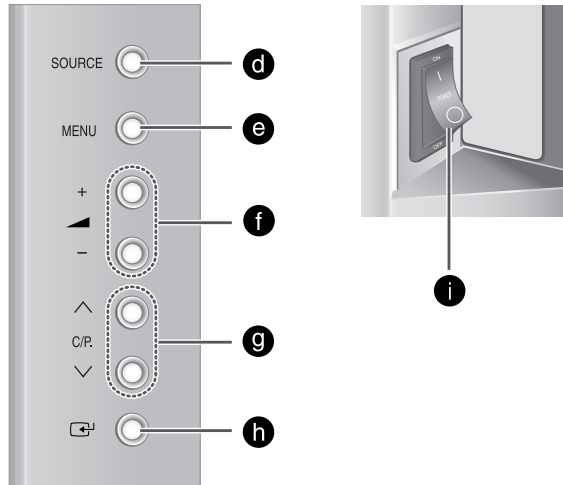
Control Panel

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

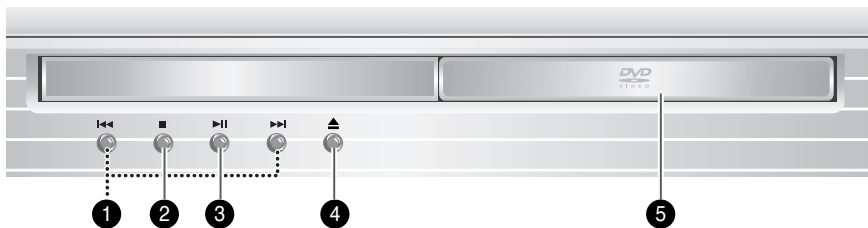
Front of the TV



Side of the TV



- | | |
|------------------------------------|--|
| (a) Place the TV in standby mode | (f) Adjust the volume |
| (b) Remote control sensor | (g) Select channels |
| (c) Standby & Timer indicator | (h) Access to the selected option on the menu system |
| (d) Switch among video input modes | (i) Switch the TV on and off |
| (e) Display the on-screen menu | |



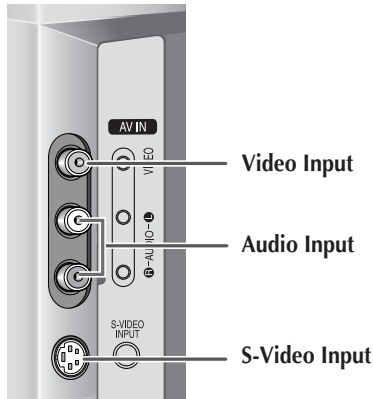
- | | |
|--|--------------------------------|
| ❶ Skip or search for title, chapter or track | ❷ Open and close the disc tray |
| ❸ Stop the disc | ❹ Disc tray |
| ❹ Play or pause the disc | |

-
- ◆ You can use the **^C/P.^** buttons to switch on the TV when it is in standby mode depending on the model.
 - ◆ The **- ▲ +** and **^C/P.^** buttons have the same function as the **▲/▼/◀/▶** buttons on the remote control.
 - ◆ If the remote control no longer works or you have misplaced it, you can use the controls on the panel of the TV.

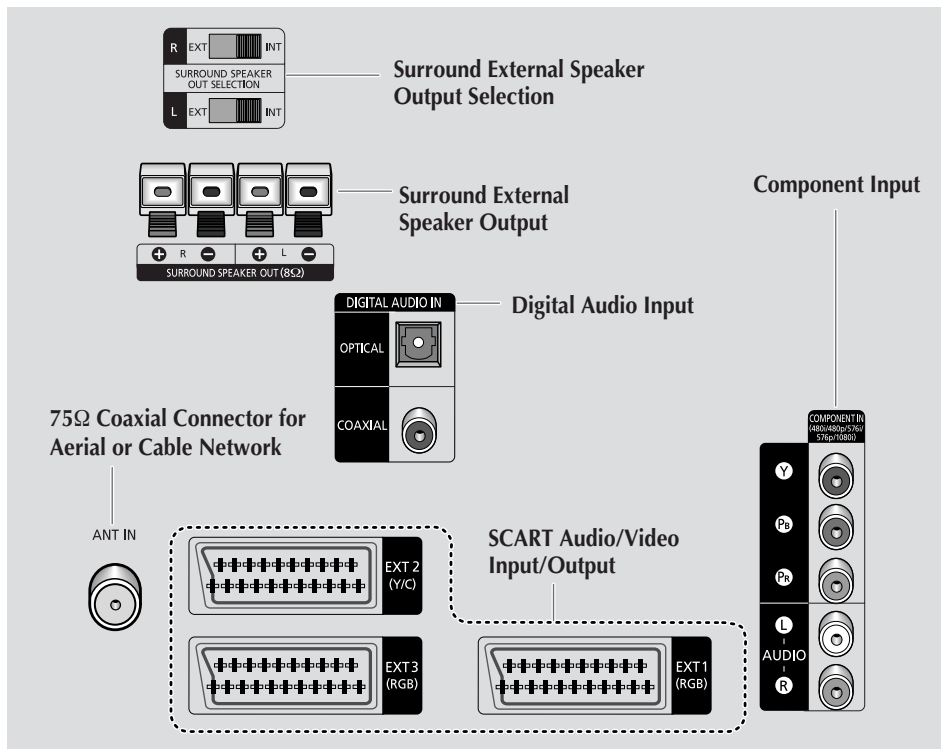
Connection Panel

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

Side of the TV



Rear of the TV



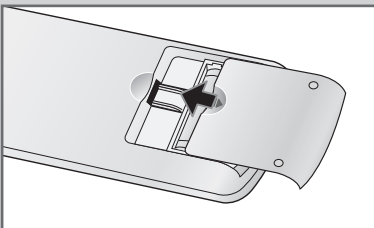
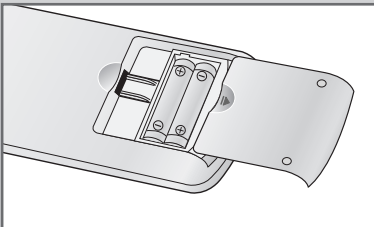
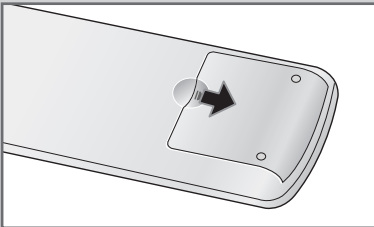
- For further details about the connections, refer to pages 71~76.
- 👉 Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Using a Display Deck



You can display a VCR or DVD Player, etc. by using the display deck.

Inserting the Batteries into the Remote Control



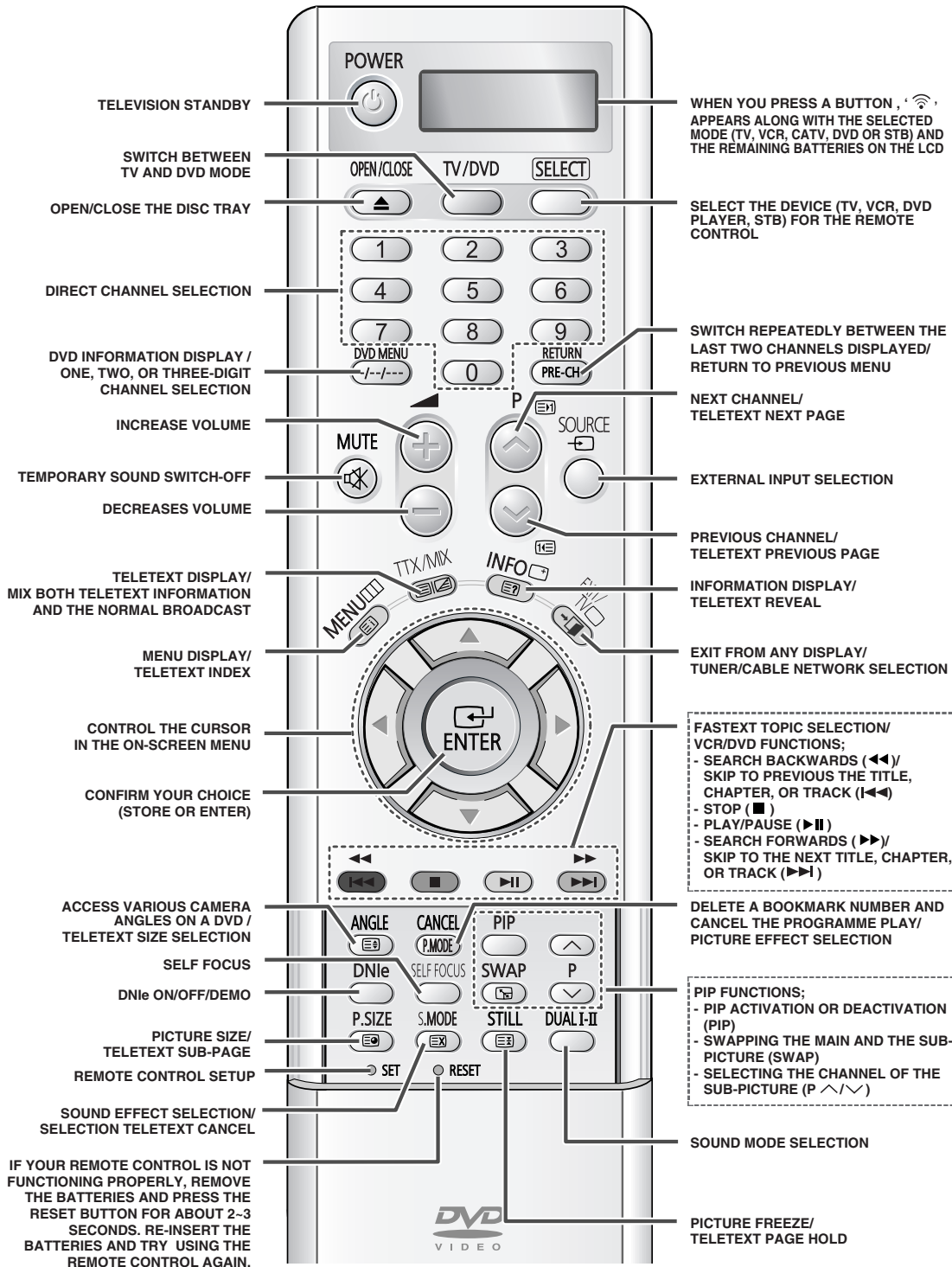
You must insert or replace the batteries in the remote control when you:

- ◆ *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.

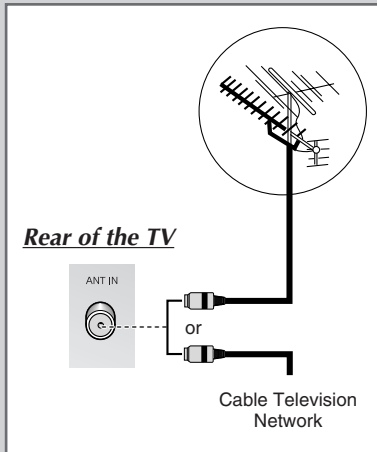
➤ Do not mix battery types, i.e. alkaline and manganese.

Infrared Remote Control



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

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 ANT IN jack on the rear of the television.
-
- 2 If you are using an indoor aerial, you may need to adjust 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 20.
 - ◆ “Storing Channels Manually” on page 22.
-

Connecting a Satellite Receiver or Decoder

In order to watch television programmes broadcast via a satellite network, you must connect a satellite receiver to the rear of TV. Also, in order to descramble a coded transmission signal, you must connect a decoder to the rear of TV.

◆ Using a SCART cable

Connect the receiver (or decoder) SCART cable to one of the SCART connectors on the rear of the television.

◆ Using a coaxial cable

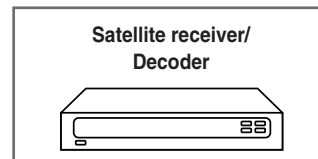
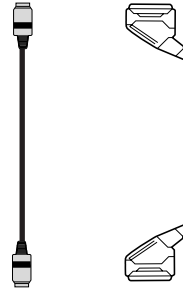
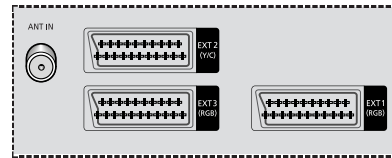
- Connect a coaxial cable to the:
- Receiver (or Decoder) output socket.
 - Television aerial input socket.

➤ If you wish to connect both a satellite receiver (or decoder) and a VCR, you should connect the:

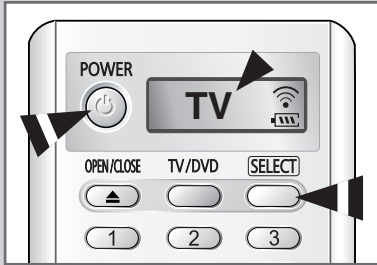
- ◆ Receiver (or Decoder) to the VCR
- ◆ VCR to the television

Otherwise, connect the receiver (or decoder) directly to the television.

Rear of the TV



Switching Your Television On and Off



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

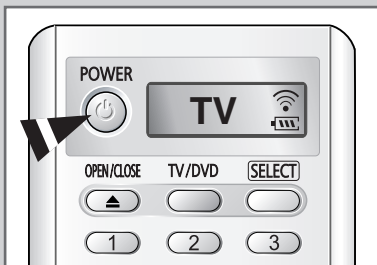
- 1 Plug the mains lead into an appropriate socket.
 - The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.
- 2 Press the power switch on the side of the television to “ON” (I).

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 your television isn't turned on when the **POWER** (⏻) button is pressed, press the **SELECT** button to check if “TV” mode has been chosen.
 - ♦ If you have not yet stored any channels, no clear picture appears. Refer to “Storing Channels Automatically” on page 20 or “Storing Channels Manually” on page 22.
- 4 To switch your television off, press the power switch to “OFF”.

Placing Your Television in Standby Mode



Your television can be placed in Standby mode, in order to reduce the power consumption.

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.
- 2 To switch the television back on, simply press the **POWER** (⏻) button again or a numeric button.
 - You can also switch the TV back on by pressing the **TV** (□), **P** (⏻/⏻) or numeric 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 power switch to “OFF”. It is best to unplug the set from the mains and aerial.

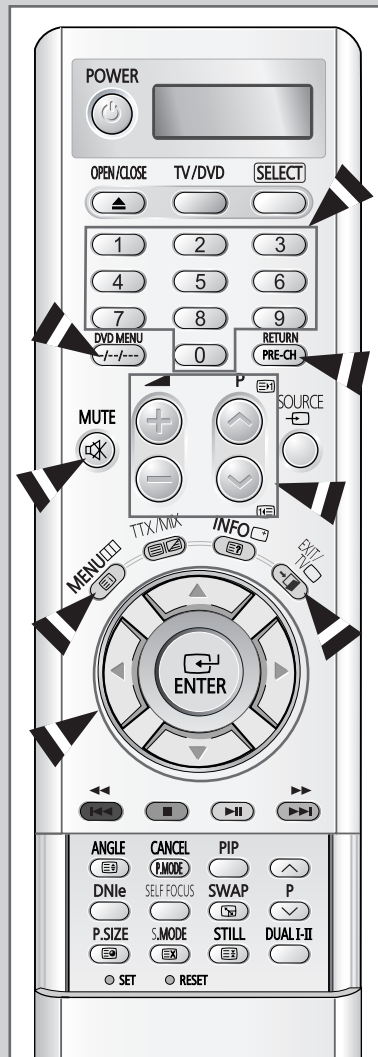
Familiarizing Yourself with the Remote Control

The remote control is used mainly to:

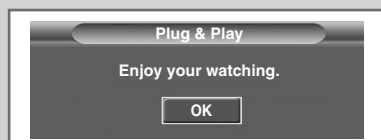
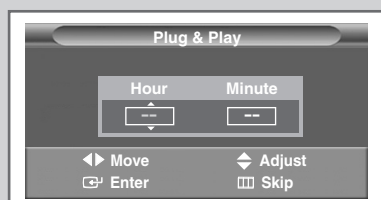
- ◆ Change channels and adjust the volume
- ◆ Set up the television using the on-screen menu system

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.	-
	Used to display the corresponding channels.	
	➤ For double digit channels, the second digit must be pushed immediately after the first. Failure to do this will result in a single digit channel being displayed.	
	Used to select a channel numbered ten or over. Press this button, and the "--" or "---" symbol is displayed. Enter the two or three-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, select the first channel, then use the numeric buttons to select the 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: ◆ Display a sub-menu containing selections for the current menu option ◆ Increase/decrease a menu option value
	-	Used to confirm your choice.
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
EXIT 	-	Used to exit from any display.



Plug & Play Feature






When the television is initially powered on several basic customer settings proceed automatically and subsequently. The following settings are available.

- 1 If the television is in Standby mode, press the **POWER** (⏻) button on the remote control.
Result: The message **Start Plug & Play** is displayed.
- 2 To start Plug & Play, press the **ENTER** (↵) button.
Result: The **Language** menu is displayed.
- 3 Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button to confirm the language.
Result: The message **Check antenna input.** is displayed.
- 4 Make sure that the antenna is connected to the TV, then press the **ENTER** (↵) button.
Result: The **Country** menu is displayed.
- 5 Select your country by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button to confirm your choice.
Result: The **Search** menu is displayed.
- 6 To start channel store, press the **ENTER** (↵) button.
Result: The search will end automatically. Channels are sorted and stored in the order which reflects their position in the frequency range (with lowest first and highest last). When it has finished, the **Clock** menu is displayed.
➤ To stop the search before it has finished or return to normal viewing, press the **MENU** (☰) button.
- 7 Press the ◀ or ▶ button to move to the **Hour** or **Minute**. Set these by pressing the ▲ or ▼ button.
➤ You can also set the **Hour** and **Minute** by pressing the numeric buttons directly.
- 8 Press the **ENTER** (↵) button.
- 9 When the settings are all finished, the message **Enjoy your watching.** is displayed, and then the channel which has been stored will be activated.


Plug & Play Feature (continued)

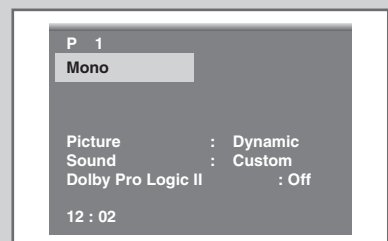
If you want to reset this feature...

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Setup** is selected.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Plug & Play** is selected.
Press the **ENTER** () button.
Result: This feature starts with the message **Start Plug & Play** displayed.
- 5 For further details on setting up options, refer to the opposite page.



Displaying Information





You can view the channel information and setting status you selected by pressing the "INFO ()" 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 until the **Setup** is selected.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Language** is selected. Press the **ENTER** () button.
Result: The available languages are listed.
- 5 Select the appropriate language by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm your choice.

Adjusting the Screen Automatically (Self Focus)

The “Self Focus” feature automatically finds the optimum picture quality when blurring, overlapping colours or incorrect focus occurs. These conditions may be caused by moving your TV.


- 1 Press the **MENU** () button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button until the **Setup** is selected.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **ENTER** () button.

- 4 Press the **▲** or **▼** button until the **Self Focus** is selected. Press the **ENTER** () button.

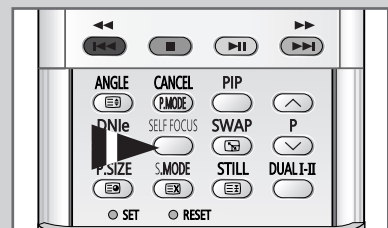
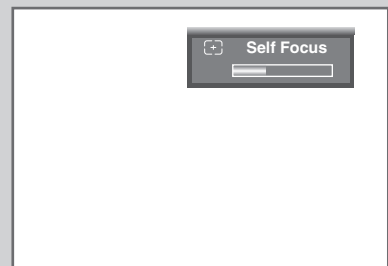
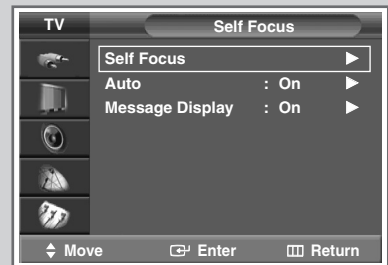
Result: The **Self Focus** is selected.

- 5 Press the **ENTER** () button again

Result: The self focus process begins with the message **Self Focus** and a horizontal bar is displayed. During the process, minor distortions of the picture may occur. At this time, the colours may diffuse and a searching action will appear on the edges of the screen. This is a normal part of the adjustment. When it is finished, this will disappear and optimum picture quality can be enjoyed.

- It can be displayed simply by pressing the **SELF FOCUS** button.






- ◆ Changing channels and any other signal changes will pause self focus until a stable signal has returned. It resumes after the signal has been stabilised. This feature will not work without a signal.
- ◆ Ambient light that is too bright may affect the self focus. If this occurs, darken the environment and try again.








Deactivating the Automatic Execution of Self Focus



The “Self Focus” feature starts by default. It will automatically begin 10 minutes after switching on the power and the appearance of the screen image. To set the optimum picture quality, “Self Focus” will automatically begin again after another 30 minutes, as the screen image is then fully stabilised.

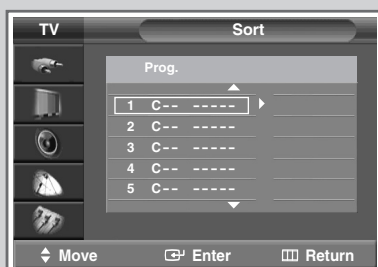
- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Setup** is selected.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Self Focus** is selected.
Press the **ENTER** () button.
Result: The options available in the **Self Focus** group are displayed.
- 5 Press the **▲** or **▼** button until the **Auto** is selected.
Press the **ENTER** () button.
- 6 To turn off the automatic execution of the self focus feature, select **Off** by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.

Removing “Self Focus” from the Display

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Setup** is selected.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Self Focus** is selected.
Press the **ENTER** () button.
Result: The options available in the **Self Focus** group are displayed.
- 5 Press the **▲** or **▼** button until the **Message Display** is selected.
Press the **ENTER** () button.
- 6 To remove the message **Self Focus** and the horizontal bar on the screen during the self focus process, select **Off** by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.



Storing Channels Automatically



You can scan for the frequency ranges available to you, (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 until the **Channel** is selected.
Result: The options available in the **Channel** group are displayed.
- 3 Press the **ENTER** () button.
Result: The **Auto Store** is selected.
- 4 Press the **ENTER** () button again.
Result: The **Auto Store** menu is displayed with the **Country** selected.
- 5 Press the **ENTER** () button once again. Select your country by pressing the **▲** or **▼** button.
The countries are displayed in the following order:
Belgium - Germany - Spain - France - Italy - Netherlands - Switzerland - Sweden - United Kingdom - Eastern Europe - Others.
➤ If you have selected the **Others** but do not wish to scan the PAL frequency range, store the channels manually (see page 22).
- 6 Press the **ENTER** () button to confirm your choice
- 7 Press the **▲** or **▼** button until the **Search** is selected. Press the **ENTER** () button.
- 8 Press the **ENTER** () button to start the search.
Result: The search will end automatically. Channels are sorted and stored in the order which reflects their position in the frequency range (with lowest first and highest last). The programme originally selected is then displayed.
➤ To stop the search before it has finished or return to normal viewing, press the **MENU** () button.
- 9 When searching and storing are complete, the **Sort** menu is displayed.
 - ◆ To sort the stored channels into the desired numerical order, go to step 5 of the "Sorting the Stored Channels" procedure on page 21.
 - ◆ To exit from the channel store function without sorting the channels, press the **MENU** () button repeatedly until the menus disappear.
- 10 When the channels have been stored, you can:
 - ◆ Sort them in the order required (see page 21)
 - ◆ Assign names to the stored channels (refer to page 25)
 - ◆ Clear a channel (see page 24)
 - ◆ Fine-tune channel reception if necessary (see page 27)
 - ◆ Activate/deactivate the **LNA** (Low Noise Amplifier) feature (see page 28)
 - ◆ Activate/deactivate the **Digital NR** (Digital Noise Reduction) feature (see page 35)

Sorting the Stored Channels

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


- 1 Press the **MENU** () button.

Result: The main menu is displayed.


- 2 Press the **▲** or **▼** button until the **Channel1** is selected.


Result: The options available in the **Channel1** group are displayed.

- 3 Press the **ENTER** () button.

- 4 Press the **▲** or **▼** button until the **Sort** is selected. Press the **ENTER** () button.

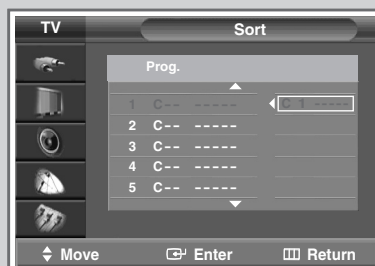
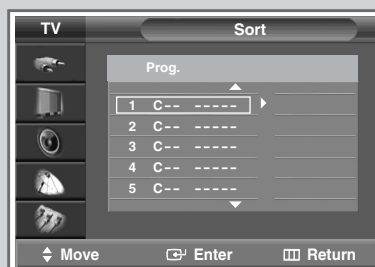
Result: The **Sort** menu is displayed.

- 5 Select the channel that you wish to move by pressing the **▲** or **▼** button. Press the **ENTER** () button.

- 6 Select the number of the programme to which the channel is to be moved by pressing the **▲** or **▼** button. Press the **ENTER** () button.

Result: The channel is moved to its new position and all other channels are shifted accordingly.

- 7 Repeat steps 5 to 6 until you have moved all the channels to the required programme numbers.

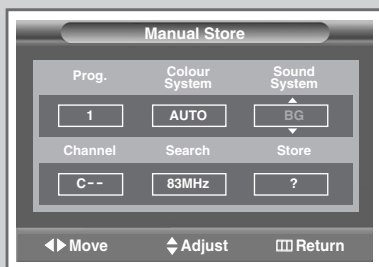
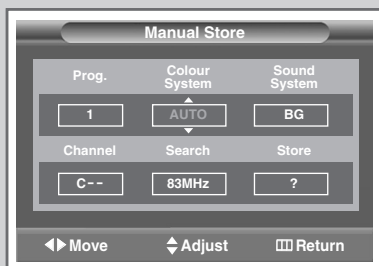
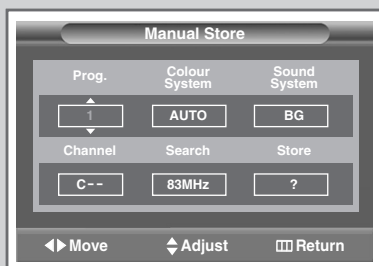
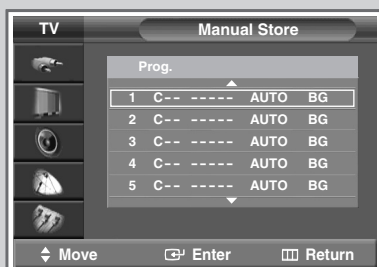


Storing Channels Manually

You can store the 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 until the **Channel1** is selected.

Result: The options available in the **Channel1** group are displayed.

3 Press the **ENTER** () button.

4 Press the **▲** or **▼** button until the **Manual Store** is selected. Press the **ENTER** () button.

Result: The current channels are displayed.

5 Select the channel that you wish to move by pressing the **▲** or **▼** button. Press the **ENTER** () button.

Result: The **Prog.** is selected.

6 To assign a programme number to a channel, find the correct number by pressing the **▲** or **▼** button.

7 If necessary, select the broadcasting standard required. Press the **◀** or **▶** button until the **Colour System** is selected and press the **▲** or **▼** button. The colour standards are displayed in the following order.

AUTO — PAL — SECAM — NT4.43

8 Press the **◀** or **▶** button until the **Sound System** is selected and press the **▲** or **▼** button. The sound standards are displayed in the following order.

BG — DK — I — L

Storing Channels Manually (continued)

- 9** If you know the number of the channel to be stored, see the following steps.
- ◆ Press the ◀ or ▶ button until the **Channel** is selected.
 - ◆ Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel).
 - ◆ Press the ▶ button.
 - ◆ Press the ▲ or ▼ button to select the required number.
- If no sound or abnormal sound can be heard, re-select the sound standard required.

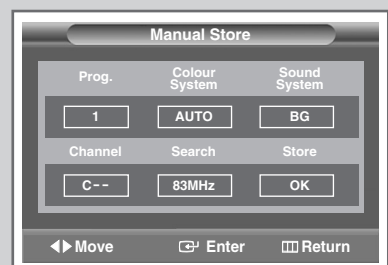
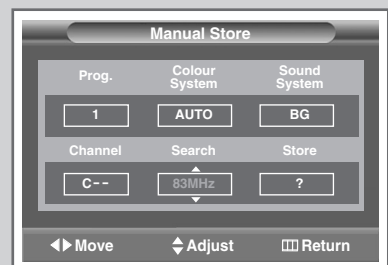
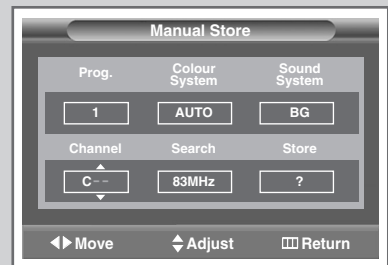
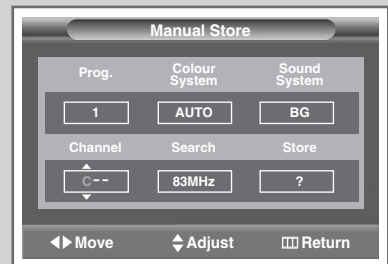
- 10** If you do not know the channel numbers, select the **Search** by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to start the search.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

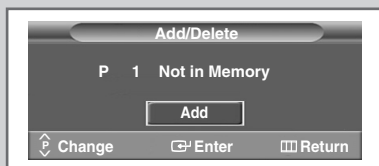
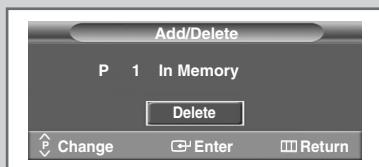
- 11** To store the channel and associated programme number, select **Store** by pressing the ◀ or ▶ button. Set to **OK** by pressing the **ENTER** (↵) button.
- 12** Repeat steps **9** to **11** for each channel to be stored.

Channel mode







- ◆ **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to 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 for 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








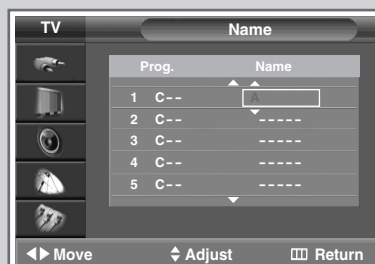
You can exclude channels of your choice from the channel scan operation. When you scan through the stored channels, those that you have chosen to skip are not displayed. All channels that you do not specifically choose to skip are displayed during scanning.

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Channel1** is selected.
Result: The options available in the **Channel1** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Add/Delete** is selected. Press the **ENTER** () button.
Result: The **Add/Delete** menu is displayed with the current channel selected.
- 5 Press the **P**  or  button to delete or add the required channel. Press the **ENTER** () button.
- 6 Repeat step 5 for each channel to be deleted or added.

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 until the **Channel1** is selected.
Result: The options available in the **Channel1** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Name** is selected. Press the **ENTER** () button.
Result: The **Name** menu is displayed with the current channel selected.
- 5 If necessary, select the channel to be assigned to a new name by pressing the **▲** or **▼** button. Press the **ENTER** () button.
Result: Arrow indications are displayed around the name box.
- 6 Press the **▲** or **▼** button to select a letter (A~Z), a number (0~9) or a symbol (-, space). Move on to the previous or next letter by pressing the **◀** or **▶** button.
- 7 Repeat step 5 to 6 for each channel to be assigned to a new name.
- 8 When you have finished entering the name, press the **ENTER** () button to confirm the name.



Locking the Channel








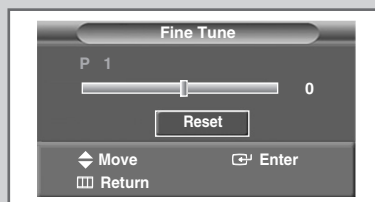
This feature allows you to lock the television so that it cannot be switched on via the front panel. It can, however, still be switched on via the remote control. By keeping the remote control away from unauthorised users, such as children, you can prevent them from watching unsuitable programme.

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Channel1** is selected.
Result: The options available in the **Channel1** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Child Lock** is selected. Press the **ENTER** () button.
Result: The **Child Lock** menu is displayed and the current channel is shown as selected.
- 5 Press the **▲** or **▼** button to select the channel to be locked.
- 6 Press the **ENTER** () button. To lock the channel, select **Locked** by pressing the **▲** or **▼** button (to unlock the channel, select **Unlocked**). Press the **ENTER** () button to confirm.

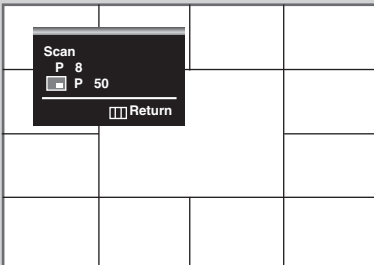
Fine Tuning Channel Reception


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 until the **Channel1** is selected.
Result: The options available in the **Channel1** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Fine Tune** is selected. Press the **ENTER** () button.
Result: The horizontal bar is displayed.
- 5 To obtain a sharp and clear picture and good sound quality, press the **◀** or **▶** button until you reach the optimal setting.
Result: The programme number turns red.
- 6 To store the fine tuning setting in the TV's memory, press the **ENTER** () button.
- 7 To reset the fine tuning to **0**, select **Reset** by pressing the **▲** or **▼** button, then press the **ENTER** () button.





Viewing the Channel Scan Picture



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

- 2 Press the **▲** or **▼** button until the **Channel1** is selected.
Result: The options available in the **Channel1** group are displayed.

- 3 Press the **ENTER** () button.


- 4 Press the **▲** or **▼** button until the **Scan** is selected. Press the **ENTER** () button.
Result: You can view every memorized channel sequentially.

Using the LNA (Low Noise Amplifier) Feature





This feature is very useful in the situation that the TV is used in a weak signal, and amplifies the TV signal in the weak signal area, but not noise.


This feature is working only in a weak signal condition, and that is memorized on relevant channel's additional information automatically.

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

- 2 Press the **▲** or **▼** button until the **Channel1** is selected.
Result: The options available in the **Channel1** group are displayed.

- 3 Press the **ENTER** () button.

- 4 Press the **▲** or **▼** button until the **LNA** is selected. Press the **ENTER** () button.

- 5 Select **Off** or **On** by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.

Changing the Picture Standard

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

- 1 Press the **MENU** () button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button until the **Picture** is selected.

Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** () button.

Result: The **Mode** is selected.

- 4 Press the **ENTER** () button again.

Result: The available options are listed.

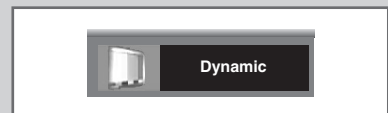
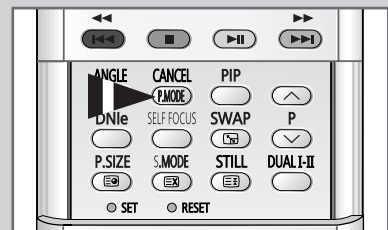
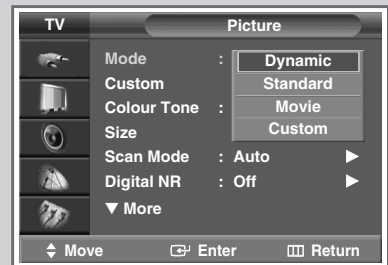
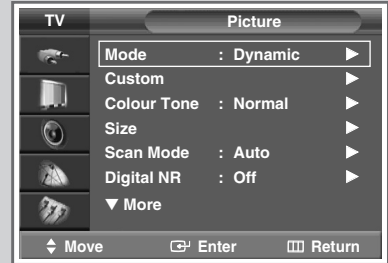
- 5 Select the required option by pressing the **▲** or **▼** button.

Result: The following modes are available:

Dynamic – Standard – Movie – Custom

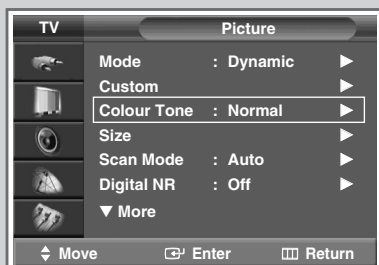
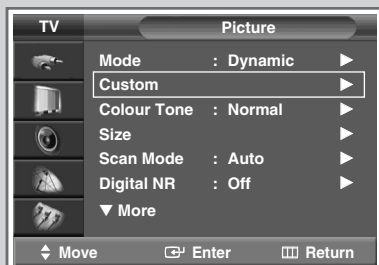
- 6 Press the **ENTER** () button to confirm.


- You can select these options by simply pressing the **P.MODE** (Picture Mode) button on the remote control. (Not available in DVD mode)




Customizing the Picture Settings


Your television has several setting options that allow you to control the picture quality.






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

- 2 Press the **▲** or **▼** button until the **Picture** is selected.
Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** () button.

- 4 Press the **▲** or **▼** button until the **Custom** is selected. Press the **ENTER** () button.
Result: The **Custom** menu is displayed.





- 5 Select the option (**Contrast**, **Brightness**, **Sharpness**, **Colour**, or **Tint**-NTSC only) to be adjusted by pressing the **▲** or **▼** button. Press the **ENTER** () button.
Result: The horizontal bar is displayed. Press the **◀** or **▶** button until you reach the optimal setting.
➤ If you make any changes to the custom settings, the picture standard is automatically switched to **Custom**.

- 6 Press the **MENU** () button to return to the **Picture** menu. Press the **▲** or **▼** button until the **Colour Tone** is selected. Press the **ENTER** () button.

- 7 Select the required colour tone (**Warm 1 ~ Warm 10**, **Normal**, **Cool 1 ~ Cool 10**) by pressing the **◀** or **▶** button.

Selecting the Picture Size (4:3 Models)

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

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Picture** is selected.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Size** is selected. Press the **ENTER** () button.
Result: The **Size** menu is displayed.
- 5 Select the required mode by pressing the **▲** or **▼** button. Press the **ENTER** () button.
Result: The following modes are available:

Normal Adjusts the picture to fit a 4:3 normal aspect ratio. (Prolonged use in 4:3 mode may cause the lifespan of the CRT to be reduced.)

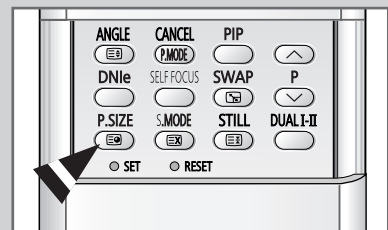
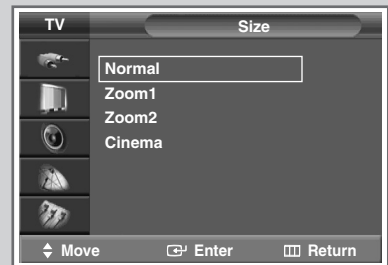
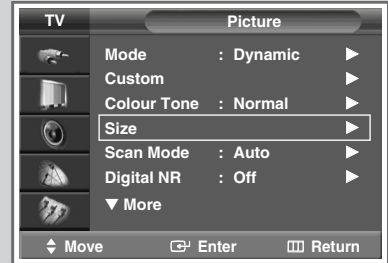
Zoom1 Vertically enlarges the picture by approximately 130%.

Zoom2 Vertically enlarges the picture about by approximately 150%.

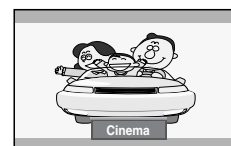
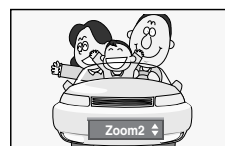
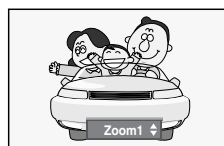
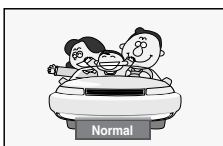
Cinema When the top and bottom of the screen margins are black (blank), they will change to gray.

➤ Lifting is available in the **Zoom1** or **Zoom2** mode by pressing the **▲** or **▼** button.

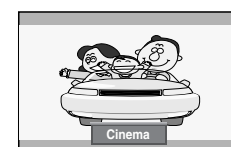
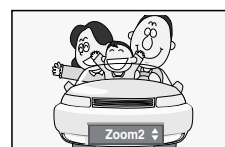
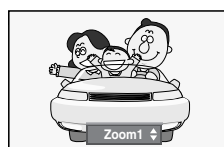
-
- ◆ You can select these options by simply pressing the **P.SIZE** button on the remote control.
 - ◆ The picture size cannot be changed in PIP mode.



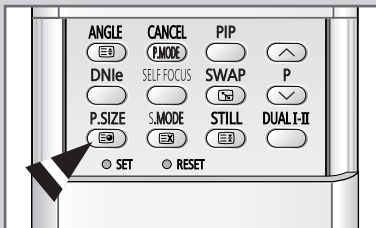
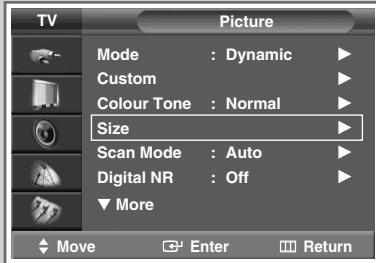
4:3 Signal




16:9 Signal




Selecting the Picture Size (Wide Models)





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

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

- 2 Press the **▲** or **▼** button until the **Picture** is selected.
Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** () button.

- 4 Press the **▲** or **▼** button until the **Size** is selected. Press the **ENTER** () button.
Result: The **Size** menu is displayed.

- 5 Select the required mode by pressing the **▲** or **▼** button. Press the **ENTER** () button.

Result: The following modes are available:

- Auto Wide** Automatically enlarges the picture to fit the 16:9 aspect ratio providing optimum display.

- 16:9** Adjusts the picture to fit the 16:9 wide aspect ratio.

- Panorama** Adjusts a Wide picture to appear natural.

- Zoom1** Vertically enlarges the picture by approximately 130%.

- Zoom2** Vertically enlarges the picture about by approximately 150%.

- 4:3** Adjusts the picture to fit a 4:3 normal aspect ratio. (Prolonged use in 4:3 mode may cause the lifespan of the CRT to be reduced.)

- Cinema1** To maintain optimum screen display, the picture is vertically enlarged and the letterboxed (black margin) area is filled with gray instead.

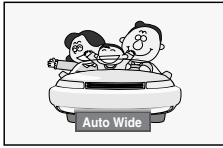
- Cinema2** When the top and bottom of the screen margins are black (blank), they will change to gray.

- ◆ Lifting is available in the **Zoom1** or **Zoom2** mode by pressing the **▲** or **▼** button.
- ◆ Subtitles may be cut-off or hidden below the screen area in **Zoom1**, **Zoom2**, **Cinema1**, and **Cinema2** modes.

- ◆ You can select these options by simply pressing the **P.SIZE** button on the remote control.
- ◆ The picture size cannot be changed in PIP mode.

Selecting the Picture Size (Wide Models) (continued)

4:3 Signal



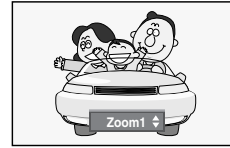
Auto Wide



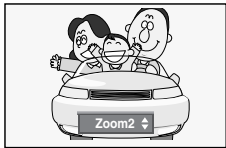
16:9



Panorama



Zoom1



Zoom2



4:3



Cinema1



Cinema2

16:9 Signal



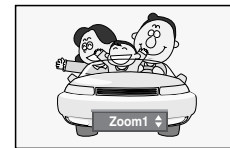
Auto Wide



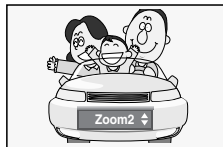
16:9



Panorama



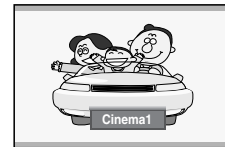
Zoom1



Zoom2



4:3

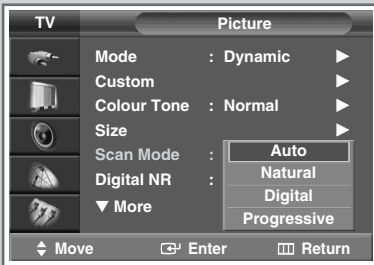
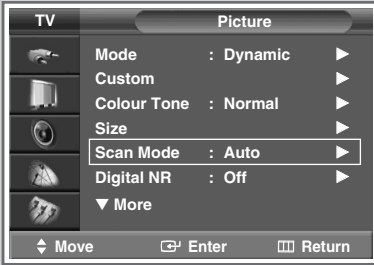


Cinema1







Cinema2

Selecting the Scan Mode







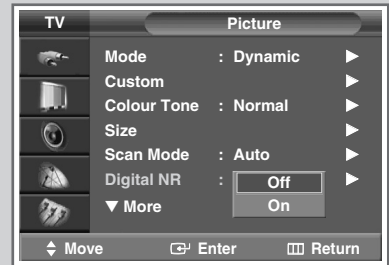
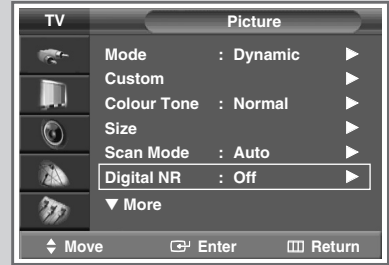
*You will normally find that scan mode is best set to **Natural** to reduce any slight picture flicker. However, it is possible that some occasional broadcasts (NTSC-M) may benefit by changing the scan mode.*

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Picture** is selected.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Scan Mode** is selected. Press the **ENTER** () button.
- 5 Select the required option by pressing the **▲** or **▼** button.
Result: The following modes are available:
Auto – Natural – Digital – Progressive
- 6 Press the **ENTER** () button to confirm.

Using the Digital NR (Noise Reduction) Feature

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

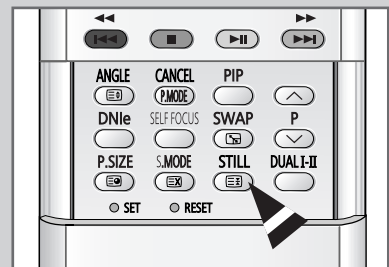
- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Picture** is selected.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Digital NR** is selected. Press the **ENTER** () button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.



Freezing the Current Picture

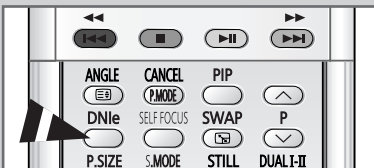
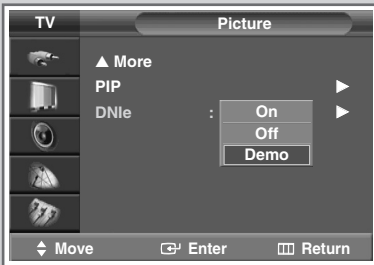
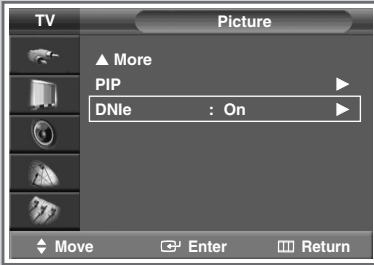
You can freeze the picture when watching a television programme simply by pressing the "STILL" button. To return to normal viewing, press it again.


- If you press the **STILL** button during PIP on, the main picture is stilled, not sub picture.




DNle™ (Digital Natural Image engine) DNle™


This feature brings you more detailed images with 3D noise reduction, detail enrichment, contrast and white enhancement. A new image compensation algorithm gives brighter, clearer, more detailed images. DNle™ technology will always deliver the best quality pictures from any signal.




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

- 2 Press the **▲** or **▼** button until the **Picture** is selected.
Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** () button.





- 4 Press the **▲** or **▼** button until the **DNle** is selected. Press the **ENTER** () button.

- 5 Press the **▲** or **▼** button to change the setting. Press the **ENTER** () button to confirm.
 - ◆ **On:** Switches on DNle mode.
 - ◆ **Off:** Switches off DNle mode.
 - ◆ **Demo (Option) :** The screen before applying DNle appears on the right and the screen after applying DNle appears on the left.

➤ You can select these options simply by pressing the **DNle** button.

Setting Blue Screen Mode

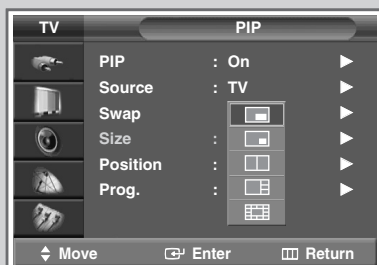
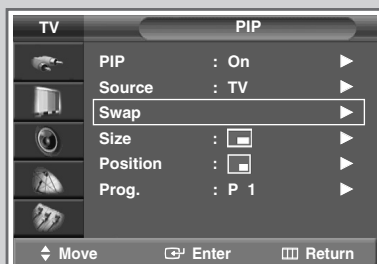
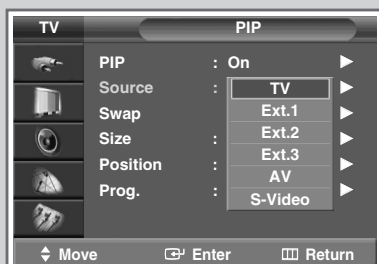
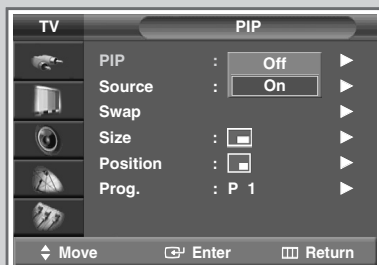
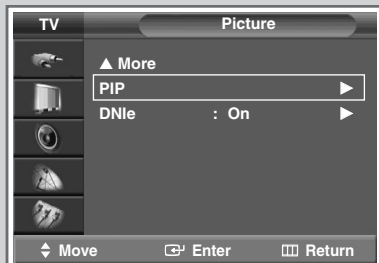
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set Blue Screen mode to Off.


- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Setup** is selected.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Blue Screen** is selected.
Press the **ENTER** () button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.




Viewing Picture In Picture (PIP)


You can display a sub-picture within the main picture of a TV programme or external A/V devices. In this way you can watch a TV programme or monitor the video input from any connected devices while watching TV or other video input.






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


- 2 Press the **▲** or **▼** button until the **Picture** is selected.
Result: The options available in the **Picture** group are displayed.


- 3 Press the **ENTER** () button.







- 4 Press the **▲** or **▼** button until the **PIP** is selected. Press the **ENTER** () button.
Result: The **PIP** menu is displayed with the **PIP** selected.


- 5 Press the **ENTER** () button again. To activate, set **PIP** to **On** by pressing the **▲** or **▼** button. Press the **ENTER** () button.

- 6 Press the **▲** or **▼** button until the **Source** is selected. Press the **ENTER** () button.
Result: The available sources are displayed.
TV – Ext.1 – Ext.2 – Ext.3 – AV – S-Video

- 7 Select a source for the sub-picture by pressing the **▲** or **▼** button. Press the **ENTER** () button.

- 8 Press the **▲** or **▼** button until the **Swap** is selected. Press the **ENTER** () button.
Result: The main picture and the sub-picture are interchanged.
➤ Not available in 12-PIP or 3-PIP modes.

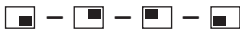
- 9 Press the **▲** or **▼** button until the **Size** is selected. Press the **ENTER** () button.
Result: The available sizes are displayed.
 –  –  –  – 
(Large) (Small) (Double) (3-PIP) (12-PIP)
➤ ◆ 12-PIP : You can view up to 12 memorized channels on the sub-picture simultaneously.
◆ On the 12-PIP or 3-PIP mode, it is not possible to execute swap and position.

- 10 Select a size for the sub-picture by pressing the **▲** or **▼** button. Press the **ENTER** () button.

Viewing Picture In Picture (PIP) (continued)

- 11 Press the ▲ or ▼ button until the **Position** is selected. Press the **ENTER** (↵) button.

Result: The available positions are displayed.

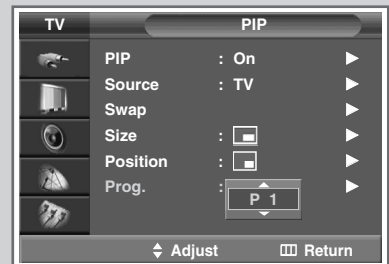
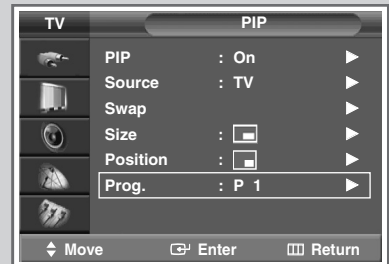
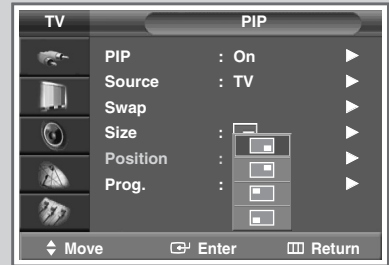


- The **Position** menu is available when the **Size** is Large or Small.

- 12 Select a position for the sub-picture by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

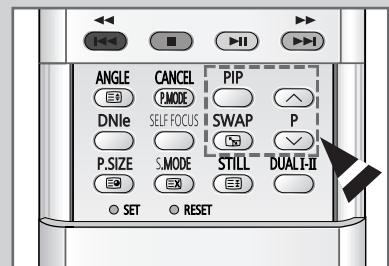
- 13 Press the ▲ or ▼ button until the **Prog.** is selected. Press the **ENTER** (↵) button. You can select the channel that you want to view through the sub-picture by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button to confirm.

- When the **Source** is set to **TV**, you can select the channel of the sub-picture.

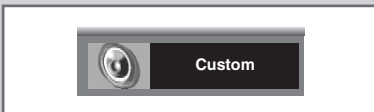
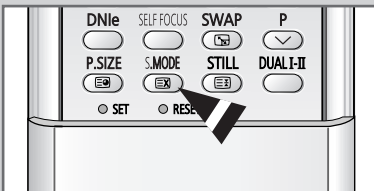
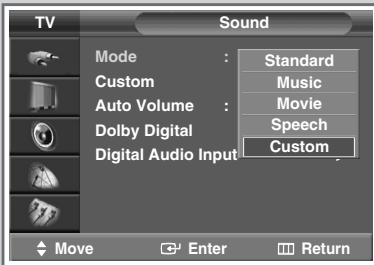
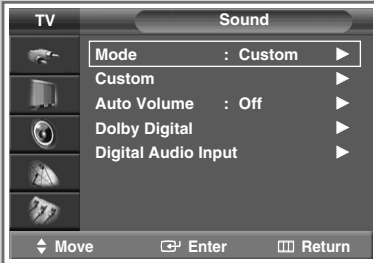


Easy functions of the remote control.


Buttons	Feature
PIP	Used to activate or deactivate the PIP function directly.
SWAP	Used to interchange the main picture and the sub-picture. ➤ When the main picture is in Video mode and the sub-picture is in TV mode, you might not hear the sound of the main picture when pressing the SWAP (↔) button after changing the sub-picture channel. At this time, reselect the channel of the main picture.
P ▲ / ▼	Used to select the channel for the sub-picture.




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 until the **Sound** is selected.
Result: The options available in the **Sound** group are displayed.

- 3 Press the **ENTER** () button.
Result: The **Mode** is selected.

- 4 Press the **ENTER** () button again.






- 5 Select the required option by pressing the **▲** or **▼** button.
Result: The following modes are available:
Standard - Music - Movie - Speech - Custom

- 6 Press the **ENTER** () button to confirm.

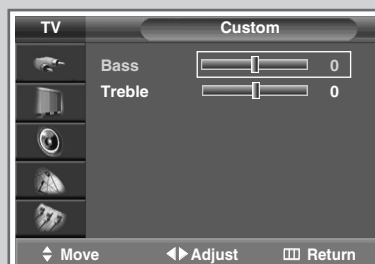
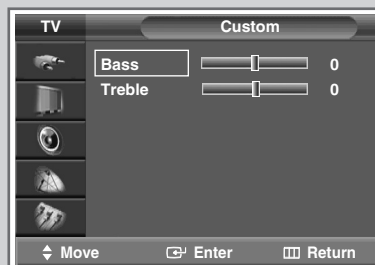
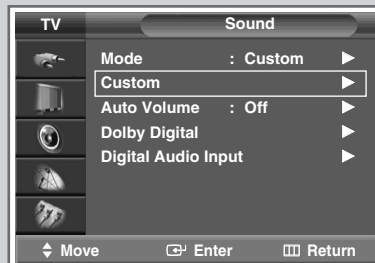
➤ You can select these options by simply pressing the **S.MODE** (Sound Mode) button on the remote control.

Customizing the Sound Settings

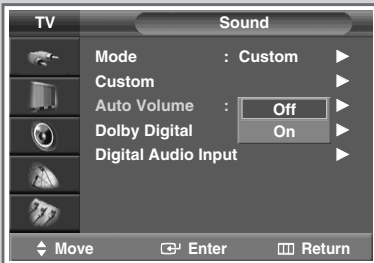
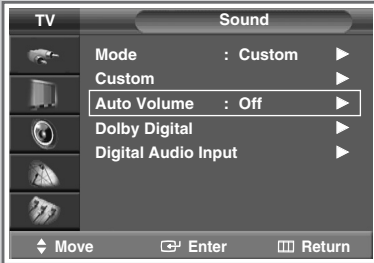
Your television has several settings which allow you to control the sound quality.

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Sound** is selected.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Custom** is selected.
Press the **ENTER** () button.
Result: The **Custom** menu is displayed with the current option.
- 5 Select the option (**Bass**, **Treble**) to be adjusted by pressing the **▲** or **▼** button. Press the **ENTER** () button.
- 6 Press the **◀** or **▶** button until you reach the optimal setting. Press the **ENTER** () button to confirm.





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



Adjusting the Volume Automatically










Each broadcasting station has its own signal conditions, and so it is not easy 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.

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Sound** is selected.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Auto Volume** is selected. Press the **ENTER** () button.
- 5 Select **Off** or **On** by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.

Setting up Dolby Digital

Dolby Digital mode allows you enjoy Dolby Digital sound effect fully with the speakers connected to the television.

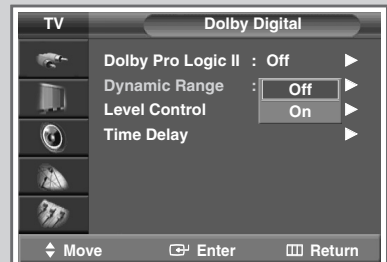
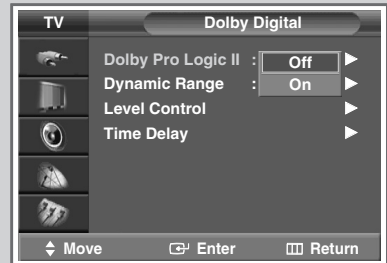
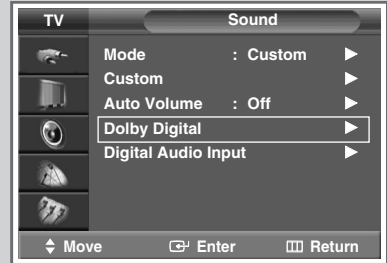
This allows various modes for the main, center, surround and woofer speakers to be selected.

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Sound** is selected.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Dolby Digital** is selected.
Press the **ENTER** () button.
Result: The **Dolby Digital** menu is displayed with the **Dolby ProLogic II** selected.
- 5 Press the **ENTER** () button again. Select **Off** or **On** by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.
➤ For further details on output depending on each option, refer to page 45.
- 6 If you wish to adjust the volume properly during night viewing, press the **▲** or **▼** button until the **Dynamic Range** is selected.
Press the **ENTER** () button.
- 7 Select **Off** or **On** by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.

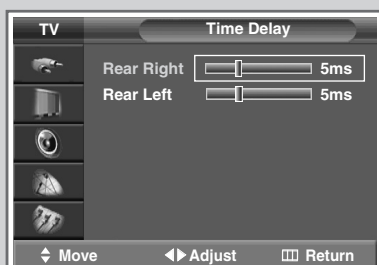
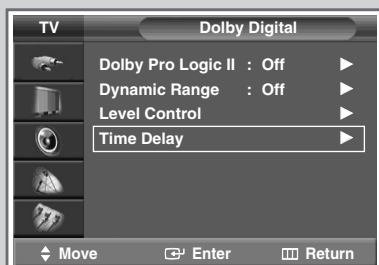
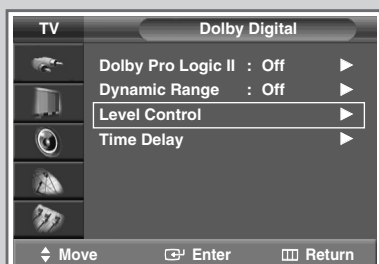
- Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942, 5,956,674, 5,974,380, 5,978,762 and other world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc. Copyright 1996, 2000 Digital Theater Systems, Inc. All Rights Reserved.



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



Setting up Dolby Digital (continued)



- Press the ▲ or ▼ button until the **Level Control** is selected. Press the **ENTER** (↵) button.
Result: The **Level Control** menu is displayed with the **Test Tone** selected.
- Press the **ENTER** (↵) button again. To simulate the volume of the speakers, select **On** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.
- Select the speaker (**Front Left**, **Center**, **Front Right**, **Rear Right**, **Rear Left**, or **Sub Woofer**) by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.
- Select the speaker to simulate, adjust the volume by pressing the ◀ or ▶ button.
- When you have finished the level control, press the **MENU** (⏏) button.
Result: The **Dolby Digital** menu is displayed again.
- To set the delay time of the surround channel, select **Time Delay** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.
- Select the option (**Rear Right** or **Rear Left**) to be adjusted by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button. Press the ◀ or ▶ button until you reach the optimal setting. Press the **ENTER** (↵) button to confirm.

Setting up Dolby Pro LogicII

For “Dolby Pro Logic II : Off”

Input (Source)	Output	Main Left	Center	Main Right	Rear		Sub- Woofer
					Right	Left	
Mono		✓		✓			(✓)
PCM Stereo (L/R)		✓		✓			(✓)
Dolby Digital	Mono	✓		✓			(✓)
	Lo/Ro	✓		✓			(✓)
	Lt/Rt	✓		✓			(✓)
	5.1ch	✓	✓	✓	✓	✓	✓
DTS		✓	✓	✓	✓	✓	✓
MPEG I (Stereo only)		✓		✓			(✓)
MPEG II		✓	✓	✓	✓	✓	✓

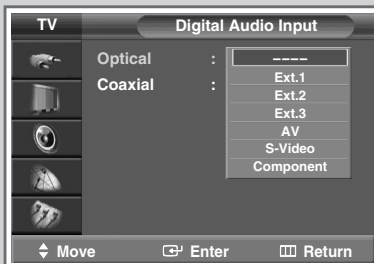
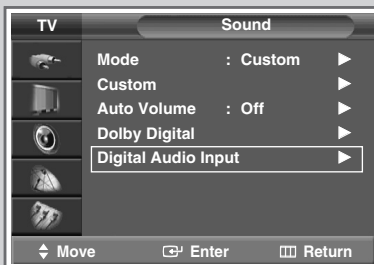
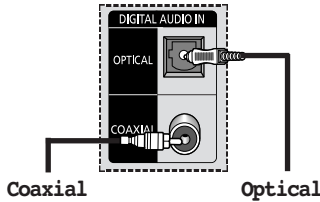
For “Dolby Pro Logic II : On”

Input (Source)	Output	Main Left	Center	Main Right	Rear		Sub- Woofer
					Right	Left	
Mono		✓	✓	✓	✓	✓	✓
PCM Stereo (L/R)		✓	✓	✓	✓	✓	✓
Dolby Digital	Mono	✓	✓	✓	✓	✓	✓
	Lo/Ro	✓	✓	✓	✓	✓	✓
	Lt/Rt	✓	✓	✓	✓	✓	✓
	5.1ch	✓	✓	✓	✓	✓	✓
DTS		✓	✓	✓	✓	✓	✓
MPEG I (Stereo only)		✓		✓	✓	✓	✓
MPEG II		✓	✓	✓	✓	✓	✓






➤ The output of the sub-woofer is changed depending on the speaker setting.

Setting up External Digital Sound

Rear of the TV



This feature allows you enjoy Digital sound when equipment with Digital output is connected to the television.

- 1 Press the **MENU** () button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Sound** is selected.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Digital Audio Input** is selected. Press the **ENTER** () button.
Result: The options available in the **Digital Audio Input** group are displayed.
- 5 Select the option (**Optical** or **Coaxial**) by pressing the **▲** or **▼** button. Press the **ENTER** () button.
 - ◆ The **Optical** and **Coaxial** are for digital signal inputs, such as the Dolby Digital (5.1ch), Dolby Prologic (4ch), DTS, or MPEG.
 - ◆ **Optical** : Converts the electric signal into an optical light signal, and transmits it through glass fibers. A transmission system for digital audio in the form of a light wave, S/PDIF format uses a glass conductor.
 - ◆ **Coaxial** : The digital audio signal is received through a coaxial copper cable.
- 6 Select the required output (**Ext.1**, **Ext.2**, **Ext.3**, **AV**, **S-Video**, or **Component**) by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.

Setting the Melody Sound

You can hear melody sound when the television is powered on or off.


- 1 Press the **MENU** () button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button until the **Setup** is selected.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **ENTER** () button.

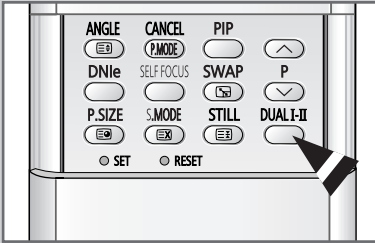
- 4 Press the **▲** or **▼** button until the **Melody** is selected. Press the **ENTER** () button.

- 5 Select the required option (**Off** or **On**) by pressing the **▲** or **▼** button.

- 6 Press the **ENTER** () button to confirm.



Selecting the Sound Mode



The “DUAL I-II” button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either “Dual I ” or “Stereo”, depending on the current transmission.

	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	Mono (Normal use)
	Regular + NICAM Mono	NICAM Mono ↔ Mono (Normal)
	NICAM Stereo	NICAM Stereo ↔ Mono (Normal)
	NICAM Dual I/II	NICAM → NICAM → Mono Dual I Dual II (Normal) ↑ ↓
A2 Stereo	Regular broadcast (Standard audio)	Mono (Normal use)
	Bilingual or Dual I/II	Dual I ↔ Dual II
	Stereo	Stereo ↔ Mono (Forced mono)

- ♦ If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
- ♦ If the stereo signal is weak and automatic switching occurs, switch to **Mono**.
- ♦ When receiving mono sound in AV mode, connect to the “AUDIO-L” input connector on the panel (front or side, depending on the model). If mono sound only comes out of the left speaker, press the **DUAL I-II** button.

Setting and Displaying the Current Time

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

- When pressing the "I" button (On/Off) on the panel 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 until the **Setup** is selected.

Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button until the **Time** is selected. Press the **ENTER** (↵) button.

Result: The options available in the **Time** group are displayed with the **Clock** selected.

5 Press the **ENTER** (↵) button.

6 Press the ◀ or ▶ button to move to the **Hour** or **Minute**. Set these by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button to confirm.






- You can also set the **Hour** and **Minute** by pressing the numeric buttons directly.



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.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button until the **Setup** is selected.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button until the **Time** is selected. Press the **ENTER** () button.
Result: The options available in the **Time** group are displayed.
- 5 Press the **▲** or **▼** button until the **Sleep Timer** is selected. Press the **ENTER** () button.
- 6 Select the preset time interval (**Off**, **30**, **60**, **90**, **120**, **150**, **180**) for staying on by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.

➤ If the sleep timer is not yet set, **Off** is displayed. If the sleep timer is already set, the remaining time before which the television switches to Standby mode is displayed.

Switching the Television On and Off Automatically

You can set the On or 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 clock (refer to “Setting the Current Time” on page 49). 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 until the **Setup** is selected.
Result: The options available in the **Setup** group are displayed.

- 3 Press the **ENTER** () button.

- 4 Press the **▲** or **▼** button until the **Time** is selected. Press the **ENTER** () button.
Result: The options available in the **Time** group are displayed.

- 5 Press the **▲** or **▼** button until the **On Timer** is selected. Press the **ENTER** () button.
Result: The options available in the **On Timer** group are displayed.

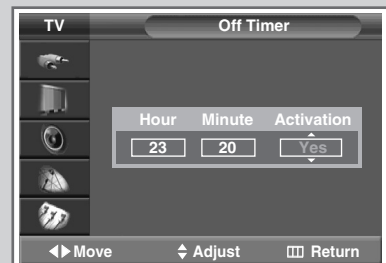
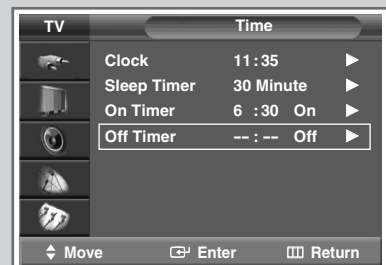
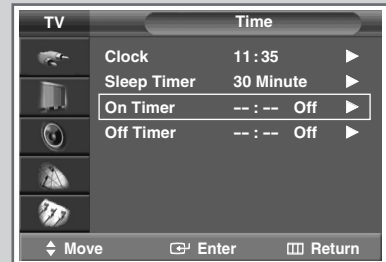
- 6 Select the **Hour**, **Minute**, **Prog.** (programme number), or **Volume** by pressing the **◀** or **▶** button. Set these by pressing the **▲** or **▼** button.

- 7 To activate the **On Timer** with the settings entered, select **Activation** by pressing the **◀** or **▶** button, then select **Yes** by pressing the **▲** or **▼** button.

- 8 Press the **MENU** () button.
Result: The options available in the **Time** group are displayed again.

- 9 Press the **▲** or **▼** button until the **Off Timer** is selected. Press the **ENTER** () button.
Result: The **Off Timer** menu is displayed.

- 10 In the same way, set the **Off Timer** for **On Timer** setting.

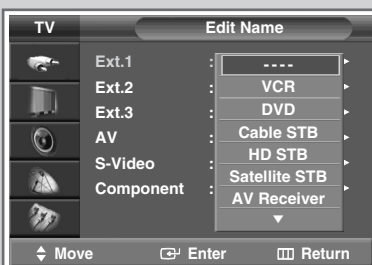
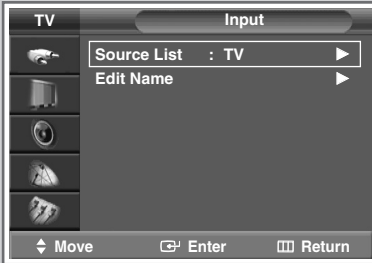











➤ Auto Power Off

When you set the timer “On”, the television will eventually turn off, if on controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer “On” mode and prevents overheating or leakages, which may occur if a TV is on for too long (on holiday, for example).

Viewing an External Signal Source

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



- 1 Press the **MENU** () button.
Result: The options available in the **Input** group are displayed.
- 2 Press the **ENTER** () button.
Result: The **Source List** is selected.
- 3 Press the **ENTER** () button again.
- 4 Press the **▲** or **▼** button to select the signal source, then press the **ENTER** () button.
➤ ◆ When you connect a piece of equipment to the TV, you can choose between the following sets of jacks : **Ext.1**, **Ext.2**, **Ext.3**, or **Component** on the TV's rear panel, and **AV** or **S-Video** on the TV's side panel.
◆ You can select these options simply by pressing the **SOURCE** () button.
- 5 Press the **MENU** () button.
Result: The options available in the **Input** group are displayed again.
- 6 Press the **▲** or **▼** button until the **Edit Name** is selected. Press the **ENTER** () button.
- 7 Press the **▲** or **▼** button to select the external source to be edited. Press the **ENTER** () button.
Result: The available device names are listed.
**VCR - DVD - Cable STB - HD STB -
Satellite STB - AV Receiver - DVD Receiver -
Game - Camcorder - DVD Combo -
DHR (DVD HDD Recorder) - PC.**
- 8 Select the required device by pressing the **▲** or **▼** button. Press the **ENTER** () button to confirm.

➤ If you change the external source while viewing, it might take a short period of time for pictures to be switched.

Playing a Disc

Playback

- 1 Press the **TV/DVD** button to switch to DVD mode.
- 2 Press the **OPEN/CLOSE** (▲) button.
- 3 Place a disc gently into the tray with the disc's label facing up.
- 4 Press the **▶||** (Play/Pause) or **OPEN/CLOSE** (▲) button to close the disc tray.

⚠ *Disks with defect or copied illegally may not be played back by DVD player and may cause damage to the DVD system of your TV set.*

Stopping Playback

Press the **■** (Stop) button during playback.

Removing Disc

Press the **OPEN/CLOSE** (▲) button.

Pausing Playback

Press the **▶||** (Play/Pause) button during playback, and the screen will stop with no sound.

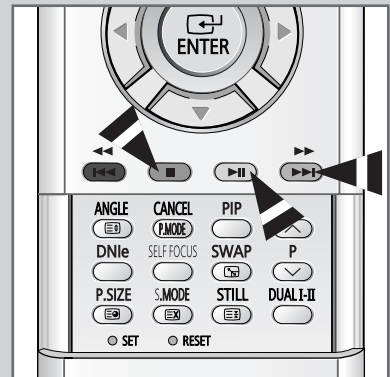
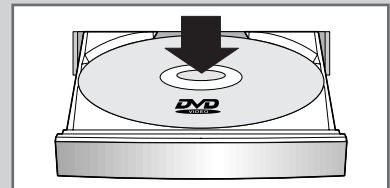
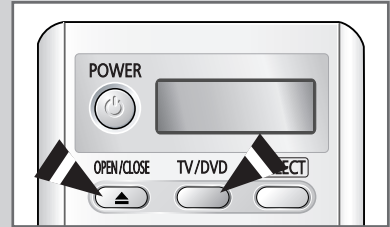
To resume, press the **▶||** (Play/Pause) button again. It will pick up where you left off (unless the disc is removed, the **■** (Stop) button is pressed twice or the set is unplugged.).

- ◆ If the player is left for 5 minutes in pause mode, it will stop.
- ◆ The "⊙" icon indicates an invalid button pressed.

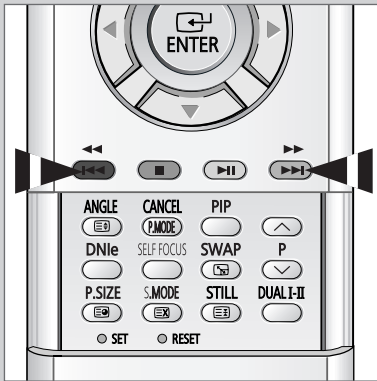
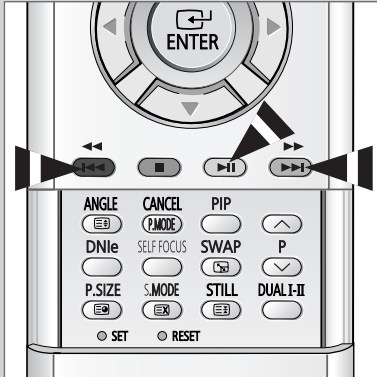
Slow Motion Play (Except CD)

Press the **▶▶** (Forward search) button during pause.

- By pressing the **▶▶** (Forward search) button for a second during pause, you can select slow motion playback for 1/2, 1/4, 1/8, or 1/16 of the normal speed.
- No sound is heard during slow mode.
- Press the **▶||** (Play/Pause) button to resume normal playback.
- When playing a VCD, reverse slow motion play will not work.



Using the Search and Skip Functions



Searching through a Chapter or Track

Press the **▶▶** (Forward search) or **◀◀** (Rewind search) button during playback.

- Press the **▶▶** (Forward search) or **◀◀** (Rewind search) button and press it again to search at a faster speed (2X/4X/8X/16X/32X) on the DVD, VCD or CD.
- To return to normal speed playback, press the **▶||** (Play/Pause) button.

➤ When in search mode (2X/4X/8X/16X/32X) on a DVD or high-speed playback on a VCD, no sound will be heard.

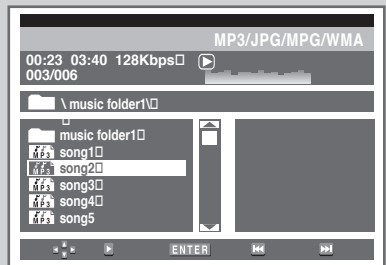
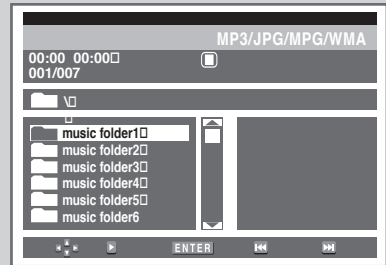
Skipping Tracks

Press the **▶▶|** (Next skip) or **||◀◀** (Back skip) button during playback.

- When playing a DVD, if you press the **▶▶|** (Next skip) button, it moves to the next chapter. If you press the **||◀◀** (Back skip) button, it moves to the beginning of the chapter. One more press, moves it to the beginning of the previous chapter.
- When playing a CD, if you press the **▶▶|** (Next skip) button, it moves to the next track. If you press the **||◀◀** (Back skip) button, it moves to the beginning of the track. One more press, moves it to the beginning of the previous track.
- When playing a VCD 2.0 in MENU OFF mode, a VCD1.1 or a CD, if you press the **▶▶|** (Next skip) button, it moves to the next track. If you press the **||◀◀** (Back skip) button, it moves to the beginning of the track. One more press, moves it to the beginning of the previous track.
- If a track exceeds 15 minutes when playing a VCD and you press the **▶▶|** (Next skip) button, it moves forwards by 5 minutes. If you press the **||◀◀** (Back skip) button, it moves backwards by 5 minutes.
- When playing a VCD 2.0 in the MENU MODE or Track View function, if you press the **▶▶|** (Next skip) button, it moves to the next menu or the next Track View display. If you press the **||◀◀** (Back skip) button, it moves to the previous menu or the previous Track View display.

Playing a Disc (MP3/WMA)

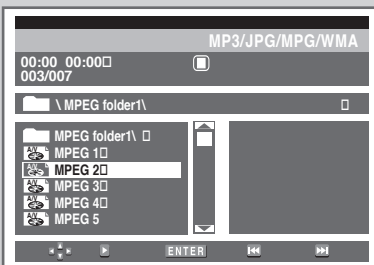
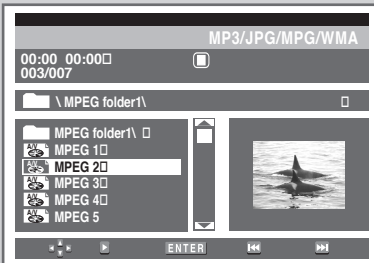
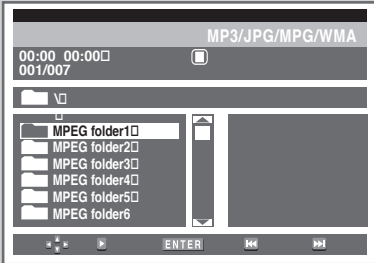
- 1 Press the **OPEN/CLOSE** (▲) button. Place a disc gently into the tray with the disc's label facing up. Press the **▶||** (Play/Pause) or **OPEN/CLOSE** (▲) button to close the disc tray.
- 2 Press the ▲ or ▼ button to select a music folder, then press the **ENTER** (↵) or ▶ button.
- 3 Press the ▲ or ▼ button again to select a song file. Press the **ENTER** (↵) or **▶||** (Play/Pause) button to begin playing the song file.
- 4 To play another song file in the same music folder, press the ■ (Stop) button and press the ▲ or ▼ button to select a song file. Press the **ENTER** (↵) or **▶||** (Play/Pause) button. To play another song file of another folder, press the ◀ button to move the music folder lists. Repeat steps 2 to 3.



When playing CD-R/MP3 discs, please follow the recommendations below:

- ◆ **Your MP3 files should be in the ISO 9660 or JOLIET format.**
The ISO 9660 format and Joliet MP3 files are compatible with Microsoft's DOS and Windows, and with Apple Macintosh. These two formats are the most widely used.
- ◆ **When naming your MP3 files, do not exceed 8 characters, and place “.mp3” as the file extension.**
General name format of: Title.mp3. When composing your title, make sure that you use 8 characters or less, that there are no spaces in the name, and avoid the use of special characters including: (.,/, \, =, +).
- ◆ **Use a decompression transfer rate of at least 128 Kbps when recording MP3 files.**
The sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate (conversion to MP3 format) of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality. Conversely, files with sampling rates below 128 Kbps will not be played properly.
- ◆ **Do not try recording copyright protected MP3 files.**
Certain “secured” files are encrypted and copy protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI™ (registered trademark of the SDMI Foundation). You cannot copy such files.
- ◆ **Your DVD player only accepts one level for the file directory.**
Consequently you must choose:
 - either to save all your MP3 recording files in the root directory of the disc;
 - and/or create folders in the directory for each artist or music type (e.g.classical, rock, jazz, etc)
- ◆ **Important:** The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of the sound quality. You should note that certain technologies and methods for recording MP3 files on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, the inability of the player to read the files).
- ◆ This unit can play a maximum of 500 files and 300 folders per disc.

Playing a Disc (MPG)



- 1 Press the **OPEN/CLOSE** (▲) button. Place a disc gently into the tray with the disc's label facing up. Press the **▶||** (Play/Pause) or **OPEN/CLOSE** (▲) button to close the disc tray.
- 2 Press the ▲ or ▼ button to select the desired MPEG folder, then press the **ENTER** (↵) or ▶ button.
- 3 Press the ▲ or ▼ button again to select an MPEG file. Press the **ENTER** (↵) or **▶||** (Play/Pause) button to begin playing the MPEG file.
- 4 To play another MPEG file in the same MPEG folder, press the ■ (Stop) button and press the ▲ or ▼ button to select an MPEG folder. Press the **ENTER** (↵) or **▶||** (Play/Pause) button. To play another MPEG folder of another folder, press the ◀ button to move the MPEG folder lists. Repeat steps 2 to 3.

Playing a Disc (JPEG)

Press the **OPEN/CLOSE** (▲) button. Place a disc gently into the tray with the disc's label facing up. Press the **▶||** (Play/Pause) or **OPEN/CLOSE** (▲) button to close the disc tray.

Rotating and Reversing the picture

- 1 Press the ▲ or ▼ button to select a picture file from the file list, then press the **ENTER** (↵) button.

Result: The selected picture is displayed.

➤ If you want to return to the file list, press the ■ (Stop) button.

- 2 Press the ◀ or ▶ button to rotate the picture.

- 3 Press the ▲ button repeatedly to reverse vertically. Press the ▼ button repeatedly to reverse horizontally.

Slide Show

Press the ▲ or ▼ button to select a picture file from the file list, then press the **▶||** (Play/Pause) button.

Result: It enters slide show mode.

➤ If you want to return to the file list, press the ■ (Stop) button.

Viewing the Album Screen

- 1 Press the **DVD MENU** button during the slide show.

Result: The DVD menu is displayed with the **Disc Menu** selected.

- 2 Press the **ENTER** (↵) button.

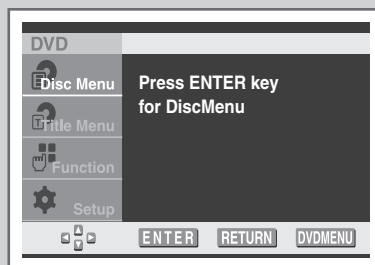
Result: It enters album screen mode.

- 3 To display the next or previous 12 pictures, press the **▶▶** (next skip) or **◀◀** (back skip) button.

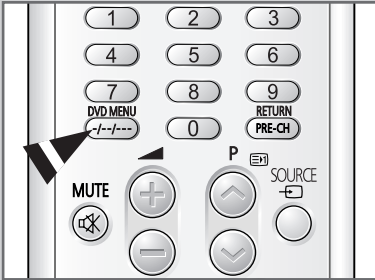
- 4 Press the ▲/▼/◀/▶ button to select a picture, then press the **▶||** (Play/Pause) button.

Result: It enters slide show mode again.

➤ If you press the **ENTER** (↵) button after selecting a picture, the selected picture will be displayed only.



Using the Disc Menu



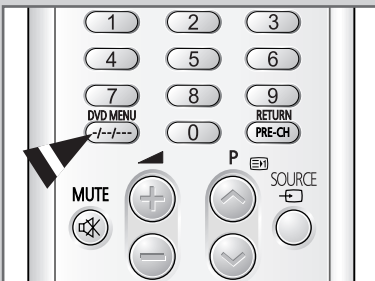
- 1 Press the **DVD MENU** button.

Result: The DVD menu is displayed with the **Disc Menu** selected.

- 2 Press the **ENTER** () button.

➤ Depending on the disc, the **Disc Menu** may not work.

Using the Title Menu



- 1 Press the **DVD MENU** button.

Result: The DVD menu is displayed.

- 2 Press the **▲** or **▼** button to select **Title Menu**.

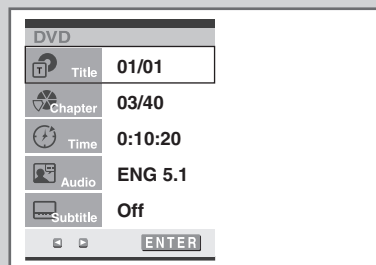
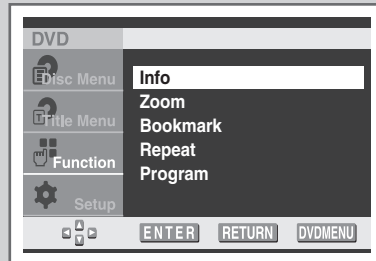
- 3 Press the **ENTER** () button.

➤ ♦ **Title Menu** will only be displayed if there are at least two titles on the disc.

♦ Depending on the disc, the **Title Menu** may not work.

Displaying the Disc Information

- 1 Press the **DVD MENU** button.
Result: The DVD menu is displayed.
- 2 Press the **▲** or **▼** button to select **Function**.
Result: The options available in the **Function** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
Result: The **Info** menu is selected.
- 4 Press the **ENTER** (**↵**) button again.
Result: Depending on the disc, the disc information will be displayed.
➤ It can be displayed by simply pressing the **INFO** (**ⓘ**) button.
- 5 Press the **▲** or **▼** button to select the required item. Press the **◀** or **▶** button to make the required setup, then press the **ENTER** (**↵**) button.
➤ You may use the number buttons of the remote control to start playing from a desired time.
- 6 To make the screen disappear, press the **INFO** (**ⓘ**) button.



Title

To access a title when there are more than one on the disc. For example, if there is more than one movie on a DVD, each movie will be identified.



Chapter

Most DVD discs are recorded in chapters so that you can quickly find a specific passage.



Time

Allows playback of the film from a specific time. You must enter the starting time as a reference.



Audio

Refers to the language of the film soundtrack. In the example, the soundtrack is played in English 5.1ch. A DVD disc can have up to eight different soundtracks.

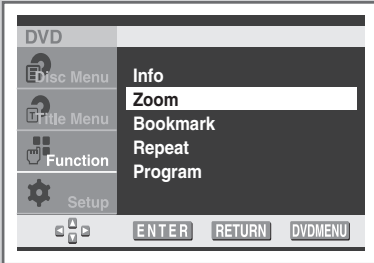






Subtitle

Refers to the subtitle languages available on the disc. You will be able to choose the subtitles language or, if you prefer, turn them off completely. A DVD disc can have up to 32 different subtitles.

-
- ◆ **What is a Chapter?** Each Title on a DVD is usually divided into chapters (similar to tracks on an audio CD).
 - ◆ **What is a Title?** A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered to be a title.

Using the Zoom Function (DVD/VCD)



- 1 Press the **DVD MENU** button.
Result: The DVD menu is displayed.
- 2 Press the **▲** or **▼** button to select **Function**.
Result: The options available in the **Function** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button to select **zoom**. Press the **ENTER** () button.
Result: The "" mark is displayed.
- 5 Press the **ENTER** () button repeatedly to zoom in (DVD or VCD: 2X, 3X, 4X, 1/2X, 1/3X, 1/4X in order).
- 6 Press the **▲/▼/◀/▶** button to select the part of the screen you want to zoom in on (2X/3X/4X).

Changing the Camera Angle



When a DVD contains multiple angles of a particular scene, you can select the angle function.

- Press the **ANGLE** button. Press the **◀** or **▶** button to select a screen angle.
To turn off the display, press the **ANGLE** button again.

Using the Bookmark Function (DVD/VCD)

This feature lets you bookmark sections of a DVD or VCD so you can quickly find them at a later time.

- 1 Press the **DVD MENU** button.
Result: The DVD menu is displayed.
- 2 Press the **▲** or **▼** button to select **Function**.
Result: The options available in the **Function** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Bookmark**. Press the **ENTER** (**↵**) button.
- 5 Press the **◀** or **▶** button to move to a bookmark icon.
- 6 When you reach the scene you want to mark, press the **ENTER** (**↵**) button.
Result: The icon will change to a number (1, 2 or 3).

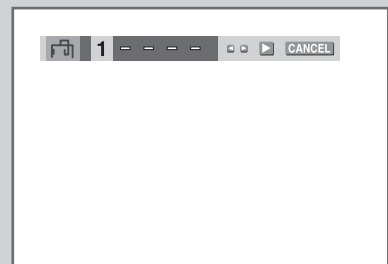
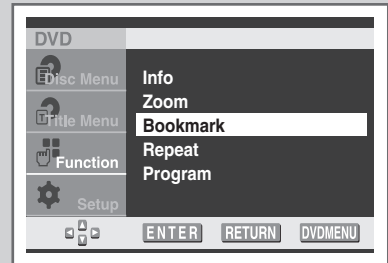
Recalling a Marked Scene

Press the **◀** or **▶** button to select a marked scene.
Press the **▶||** (Play/Pause) button to skip to the marked scene.

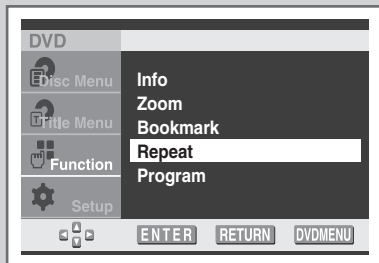
Clearing a Bookmark

Press the **◀** or **▶** button to select the bookmark number you want to delete. Press the **CANCEL** button to delete a bookmark number.

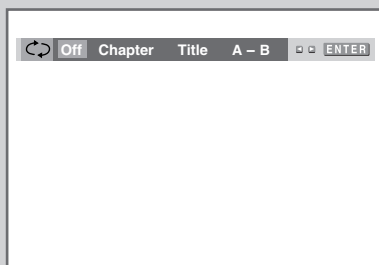
- ◆ Depending on the disc, this function may not work.
◆ Up to three scenes may be marked at the same time.



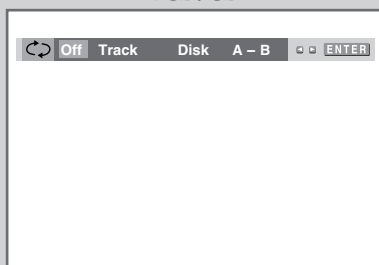
Repeat Play






DVD






VCD/CD



Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.

- 1 Press the **DVD MENU** button.
Result: The DVD menu is displayed.
- 2 Press the **▲** or **▼** button to select **Function**.
Result: The options available in the **Function** group are displayed.
- 3 Press the **ENTER** () button.
- 4 Press the **▲** or **▼** button to select **Repeat**.
Press the **ENTER** () button.
- 5 Press the **◀** or **▶** button to select the chapter, title or A-B.
Press the **ENTER** () button.
➤ A DVD repeats playing by chapter or title, a CD and VCD by track or disc.

A-B Repeat

- 1 Press the **◀** or **▶** button to select **A-**. Press the **ENTER** () button at the point where you want repeat play to start.
- 2 Press the **◀** or **▶** button to select **B**. Press the **ENTER** () button at the point where you want repeat play to stop.
➤ If the title or track is completed before marking the end (**B**), the end of the title or track becomes **B** automatically.
- 3 To return to normal play, press the **◀** or **▶** button to select **off** and press the **ENTER** () button.

➤ Depending on the disc, this function may not work.

Programme Play (CD)

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

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

- 3 Press the **ENTER** (**↵**) button.

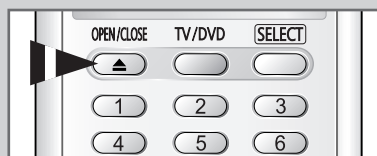
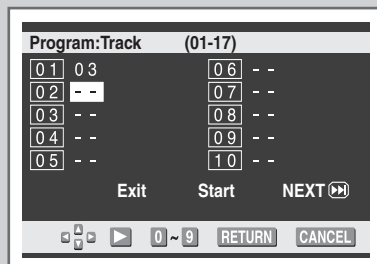
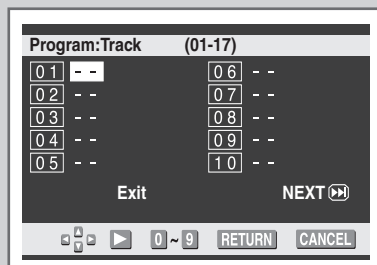
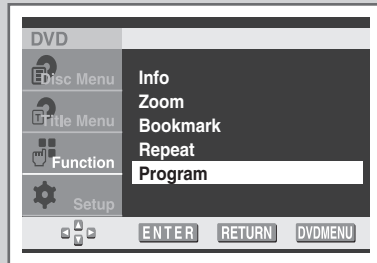
- 4 Press the **▲** or **▼** button to select **Program**. Press the **ENTER** (**↵**) button.

- 5 Press the numeric buttons to select the first track to add to the programme.
Result: Selected numbers are displayed in the first track.

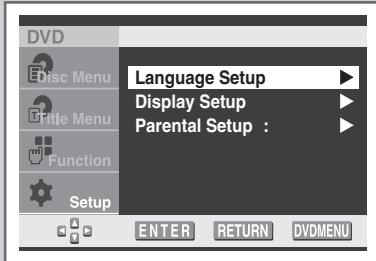
- 6 Press the **▲/▼/◀/▶** button to move the next tray. Follow the above instruction for programming.

- 7 Press the **▶||** (Play/Pause) button.
Result: The disc will be played in the programmed order.

-
- ◆ Depending on the disc, this function may not work.
 - ◆ Press the **■** (Stop) button twice to cancel programme play during playback.
 - ◆ Opening the tray by pressing the **OPEN/CLOSE** (**▲**) button cancels programme play.



Setting up the Language for the Player Menu



If you select the language for the player's on-screen displays, it will come up automatically every time.

- 1 Press the **DVD MENU** button.

Result: The DVD menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**.

Result: The options available in the **Setup** group are displayed.


- 3 Press the **ENTER** () button.

Result: The **Language Setup** is selected.

- 4 Press the **ENTER** () button again.

Result: The **Player Menu** is selected.

- 5 Press the **ENTER** () button again.

Press the **▲** or **▼** button to select the appropriate language, then press the **ENTER** () button.

- ◆ This function depends on what languages are encoded on the disc and may not work with all DVDs.
- ◆ If the selected language is not recorded on the disc, the original pre-recorded language is selected.

Setting up the Display Options

- 1 Press the **DVD MENU** button.

Result: The DVD menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **ENTER** (**↵**) button.

- 4 Press the **▲** or **▼** button to select **Display Setup**. Press the **ENTER** (**↵**) button.

Result: The options available in the **Display Setup** group are displayed.

- 5 Press the **▲** or **▼** button to select the required menu (**Screen Messages**, **Black Level** or **NTSC Disc Output**).

- 6 Select the appropriate option by pressing the **ENTER** (**↵**) or **▶** button.

◆ **Screen Messages : On or Off.**

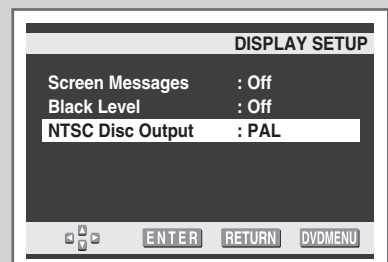
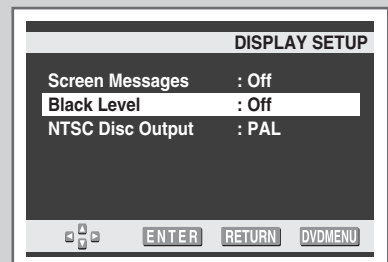
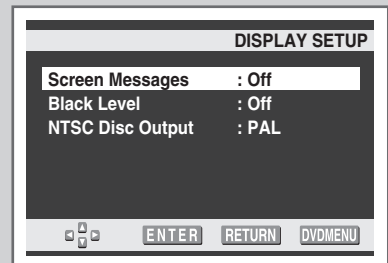
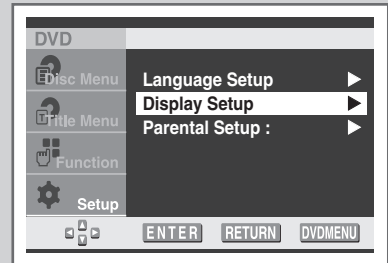
Turns on-screen messages on or off.

◆ **Black Level : On or Off.**

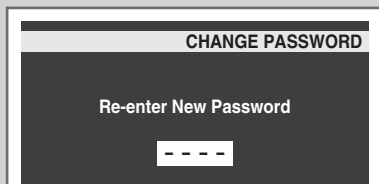
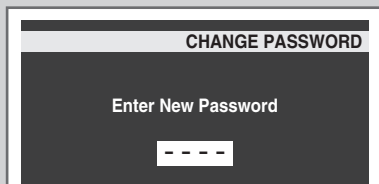
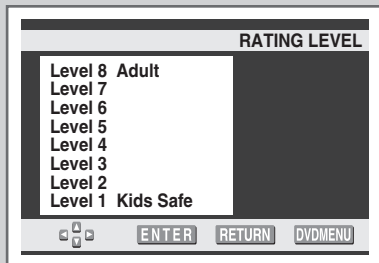
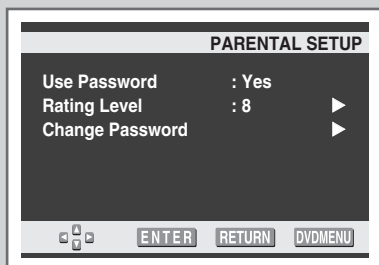
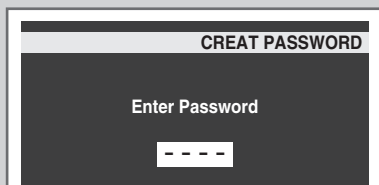
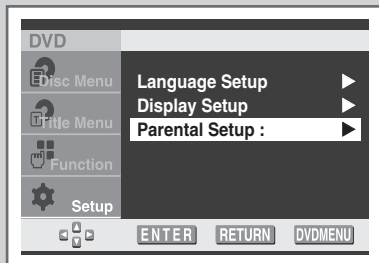
Adjusts the brightness of the screen.

◆ **NTSC Disc Output**

When outputting the NTSC Disc to the external device of an NTSC system, select **NTSC**. For PAL systems, select **PAL**. Otherwise, there may be no colour or abnormal colour.



Setting up Parental Control



- 1 Press the **DVD MENU** button.
Result: The DVD menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** (**↵**) button.
- 4 Press the **▲** or **▼** button to select **Parental Setup**. Press the **ENTER** (**↵**) button.
Result: The **Enter Password** is displayed.
- 5 Enter the default password (**0000**) by using the numeric buttons.
Result: The options available in the **Parental Setup** group are displayed with the **Use Password** selected.
➤ If you have lost your password, enter the master password (**1369**).
- 6 Select **Yes** by pressing the **▶** button to use a password.
Result: The **Rating Level** and **Change Password** are displayed.
- 7 **About the Rating Level;**
 - 1 Press the **▲** or **▼** button to select **Rating Level**. Press the **ENTER** (**↵**) button.
 - 2 Press the **▲** or **▼** button to select the level (e.g. **Level 8**) and press the **ENTER** (**↵**) button.
Discs that contain Level 7 will now not play.
➤ To cancel the rating level, select **No** in the **Use Password** by pressing the **▶** button.
- 8 **About the Change Password;**
 - 1 Press the **▲** or **▼** button to select **Change Password**. Press the **ENTER** (**↵**) button.
Result: The **Enter New Password** is displayed.
 - 2 Enter your new password.
Result: The **Re-enter New Password** is displayed.
 - 3 Re-enter your new password to confirm.

Teletext Feature

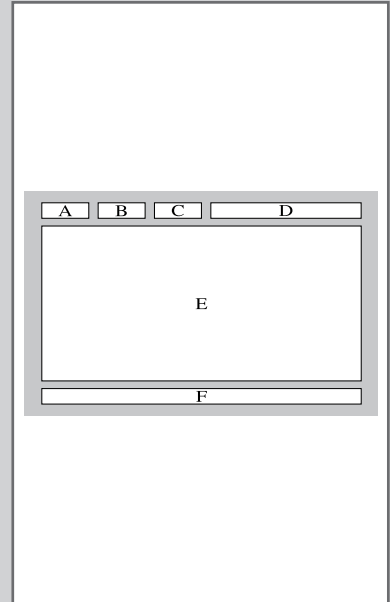
Most television channels provide written information services via teletext. Information provided includes:

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

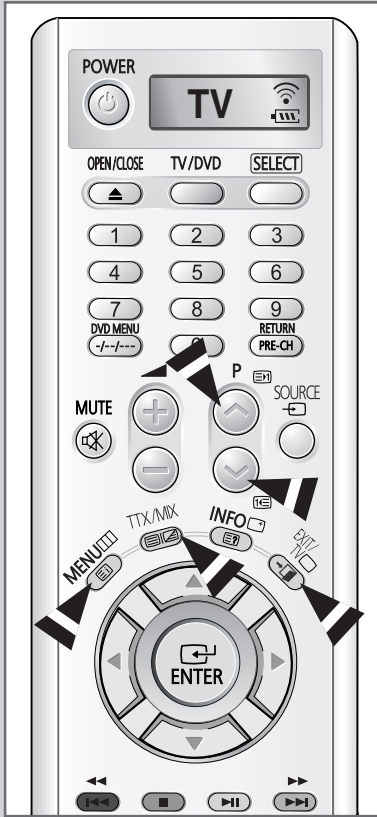
This information is divided into numbered pages (see diagram).

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.

- Teletext information is often divided into 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 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

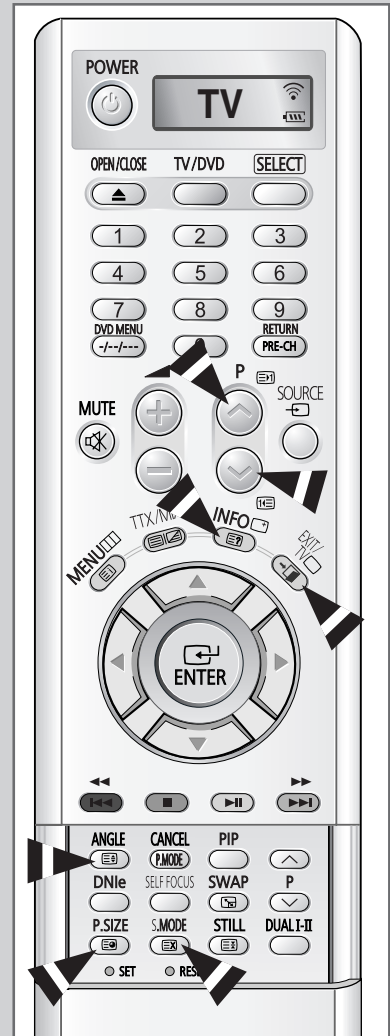
- 1 Select the channel providing the Teletext service using the **P** or **TV** button.
- 2 Press the **TTX/MIX** () button to activate teletext mode.
Result: The contents page is displayed. It can be redisplayed at any time by pressing the **INFO** () (index) button.
- 3 Press the **TTX/MIX** () button again.
Result: The screen will be split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.
- 4 If you wish to display the actual broadcast at the same time as the teletext page, press the **TTX/MIX** () button again.
- 5 Press the **TV** () button to exit from the teletext display.

Selecting Display Options

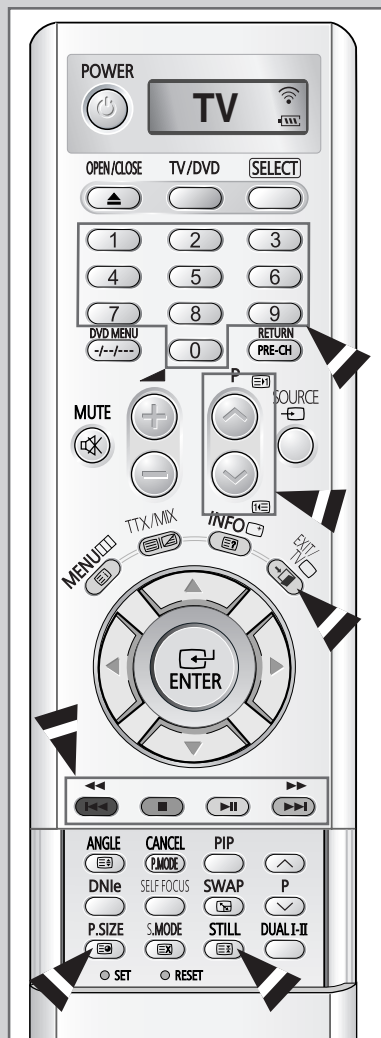
When you have displayed a Teletext page, you can select various options to suit your requirements.

To display...	Press the...
◆ Hidden text (answers to quiz games, for example)	[?] (reveal)
◆ The normal screen	[?] (reveal) again
◆ A secondary page	[P] (sub-page)
◆ The broadcast when searching for a page	[X] (cancel)
◆ The next page	[1] (page up)
◆ The previous page	[4] (page down)
◆ Double-size letters in the: <ul style="list-style-type: none"> • Upper half of the screen • Lower half of the screen 	[S] (size) <ul style="list-style-type: none"> • Once • Twice
◆ Normal screen	• Three times

➤ To return to the normal display after using the reveal or size feature, press the **TV** (□) button.




Selecting a Teletext Page







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 increased by one and the page is then displayed. 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 it again to resume.
- 2 If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control.

Press the coloured button corresponding to the topic that you wish to select; the available topics are given in the status line.

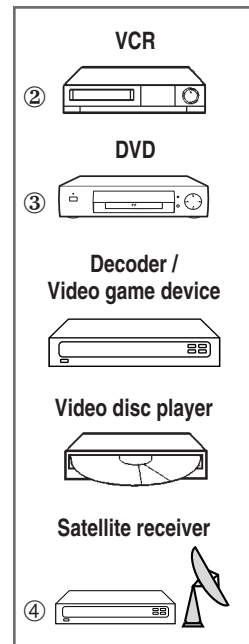
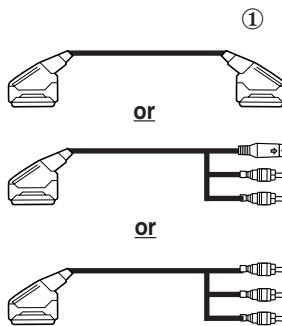
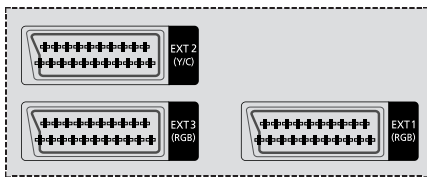
Result: The page is displayed with other coloured information that can be selected in the same way.
- 3 To display the previous or next page, press the corresponding coloured button.
- 4 To display the sub-page, see the following steps.
 - ◆ Press the  (sub-page) button.

Result: The available sub-pages appear.
 - ◆ Select the required sub-page. Sub-pages can be scrolled by pressing the  or  button.
- 5 When you have finished, press the TV () button to return to your normal broadcast.

Connecting to External Input/Output

- **EXT 1** is used for 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
 - ◆ An S-Video connector and two audio RCA connectors (L+R); **EXT 2**
 - ◆ Three RCA connectors (VIDEO + AUDIO-L and R)
- ② If you have a second VCR and wish to copy cassette tapes, connect the source VCR to **EXT 1** and the target VCR to **EXT 2** so that you can redirect the signal from **EXT 1** to **EXT 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 **EXT 1** and the VCR to **EXT 2** so that you can redirect the signal from **EXT 1** to **EXT 2**.

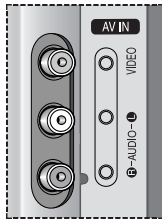
☞ Whenever you connect an audio or video system to your television, ensure that all elements are switched off.

Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

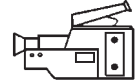
Connecting to the RCA Input

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

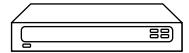
Side of the TV



Camcorder



Video game device



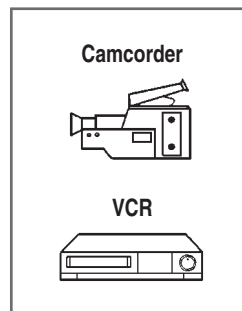
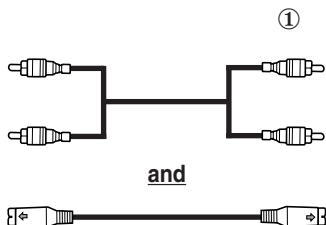
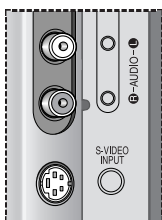
Video disc player



Connecting to the S-Video Input

- The **S-VIDEO INPUT** and **AUDIO-L/R** connectors are used for equipment with an S-Video output, such as a camcorder or VCR.

Side of the TV

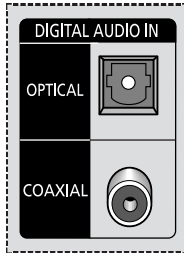


- ① To play pictures and sound, both the **S-VIDEO INPUT** and **AUDIO-L/R** connectors must be used.

Connecting to the Digital Audio Input

- The **DIGITAL AUDIO IN (OPTICAL IN or COAXIAL IN)** connectors are used for equipment with digital output (to take digital sound).

Rear of the TV

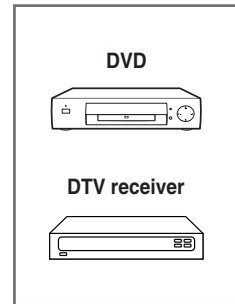
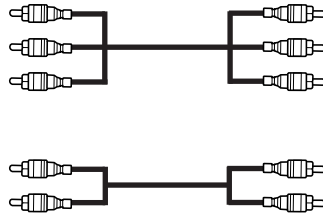
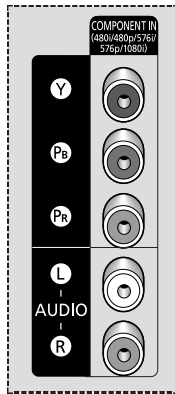


or



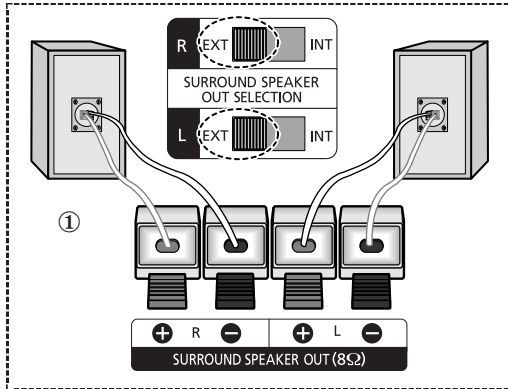
Connecting to the Component Input

Rear of the TV



- The **COMPONENT IN** connectors are used for equipment with a DVD or DTV receiver output. (480i, 480p, 576i, 576p, 1080i)

Connecting Additional Speakers



- ① The **SURROUND SPEAKER OUT** connectors are used for the sound output to external speakers.
- The factory default of **SURROUND SPEAKER OUT SELECTION** is set to **INT**.
For sound output to external speakers, set to **EXT**. Sound to the internal speaker is off.
- To improve the sound quality, connect the:
- ◆ Red wire to the red terminal
 - ◆ Black wire to the black terminal
- Speakers can be purchased separately.

Redirecting an Input to the External Output

Your television enables you to choose which audio/video signals are output to the external connector.


- 1 Press the **MENU** () button.

Result: The main menu is displayed.


- 2 Press the **▲** or **▼** button until the **Setup** is selected.

Result: The options available in the **Setup** group are displayed.


- 3 Press the **ENTER** () button.

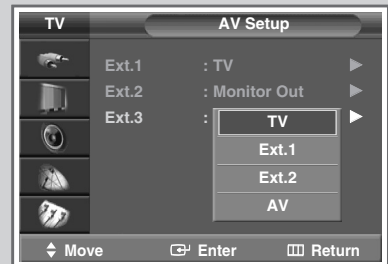
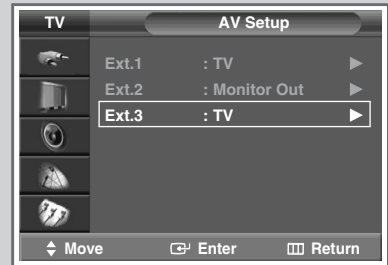
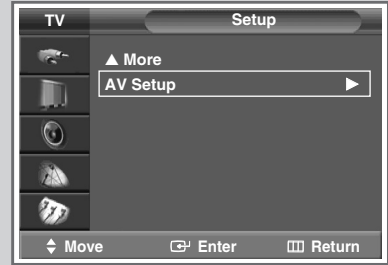
- 4 Press the **▲** or **▼** button until the **AV Setup** is selected. Press the **ENTER** () button.

Result: The **AV Setup** menu is displayed with the **Ext.3** selected.

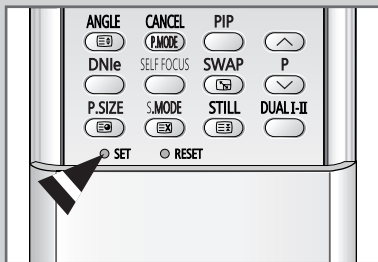
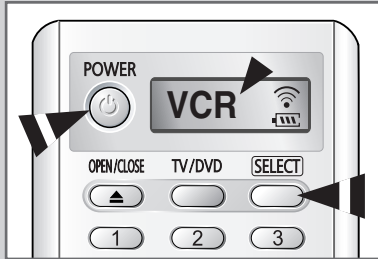
- 5 Press the **ENTER** () button. Select the source to be directed to the output of **Ext.3** by pressing the **▲** or **▼** button.

- **Ext.1** : Default (**TV**)
- Ext.2** : Default (**Monitor Out**)
- Ext.3** : Variable (**TV, Ext.1, Ext.2, AV**)

- 6 Press the **ENTER** () button to confirm your choice.



Programming the Remote Control for Other Components



Your TV comes equipped with a universal remote control. In addition to controlling the TV, the universal remote control can also operate a VCR, Cable box, DVD, and Set-Top Box made by Samsung (even if your VCR, Cable box and DVD are made by manufacturers other than Samsung).

➤ The remote control might not be compatible with all VCRs, DVD players and Cable boxes.

- 1 Turn off your VCR (Cable box or DVD).
- 2 Press the **SELECT** button to switch the remote control to the **VCR (CATV or DVD)** mode.
 - The remote control has five modes : **TV, VCR, CATV, DVD** and **STB**.
- 3 Press the **SET** button.
- 4 Enter 3 digits of the VCR (Cable box or DVD) code listed on the next page for your VCR (Cable box or DVD).

Example: To enter code "6", press 0, 0, and 6.
To enter code "76", press 0, 7, and 6.
- 5 Press the **POWER** (⏻) button. Your VCR (Cable box or DVD) should turn on. If it turns on, your remote control is now set correctly.
 - If it does not turn on, repeat the steps above, but try one of the other codes listed for your particular brand.
- 6 Once your remote control is set up, press the **SELECT** button any time you want to use the remote control to operate the VCR (Cable box or DVD).
 - ◆ When your remote control is in **VCR, CATV, DVD** or **STB** mode, the volume buttons still control your television's volume.
 - ◆ When your remote control is in **TV** mode, the VCR or DVD control buttons (rewind, stop, play/pause, and fast forward) still operate your VCR or DVD.

Programming the Remote Control for Other Components

VCR Remote Control Codes

Admiral	020	Marantz	007, 008, 018, 021, 026, 036, 037, 062
Aiwa	025	Marta	006
Akai	004, 027, 032	MEI	021
Audio Dynamics	007, 026	Memorex	006, 021, 024, 025
Bell&Howell	018	MGA	034
Broksonic	022	Midland	005
Candle	002, 003, 006, 008, 015, 055	Minolta	019, 041
Canon	021, 056	Mitsubishi	019, 034, 041, 046
Citizen	002, 003, 006, 008, 015, 055	Montgomery Ward	020
Colortyme	007	MTC	002, 025
Craig	002, 024	Multitech	002, 005, 025, 038
Curtis Mathes	002, 007, 008, 017, 021, 025, 056, 064, 066	NEC	007, 008, 018, 026, 037, 062, 064
		Optimus	020
Daewoo	003, 010, 011, 012, 013, 014, 015, 016	Panasonic	021, 056, 071, 072
DBX	007, 026	Pentax	019, 041
Dimensia	017	Pentex Research	008
Dynatech	034	Philco	021, 036, 056, 059
Emerson	001, 003, 006, 021, 022, 025, 030, 032, 034, 040, 047, 050, 052, 060, 063, 065, 066, 067, 069	Philips	021, 036
		Pioneer	019, 026, 039, 053
		Portland	015, 049, 055
Fisher	018, 024, 028, 029, 048, 051, 061	PROSCAN	017
Funai	025	Quartz	018
General Electric	002, 005, 017, 021, 056	Quasar	021, 056
Go Video	002	Radio Shack/Realistic	006, 018, 020, 021, 024, 025, 029, 034, 048, 056
LG (Goldstar)	006, 007, 008, 009, 010	RCA	002, 017, 019, 021, 035, 041, 043, 057, 068
Harman Kardon	007	Samsung	000, 001, 002, 003, 004, 005
Hitachi	019, 025, 041, 042	Sansui	026
Instant Replay	021	Sanyo	018, 024
JC Penny	002, 007, 018, 019, 021, 026, 037, 041, 054, 056	Scott	003, 047, 052, 067
JVC	007, 008, 018, 021, 026, 037	Sears	006, 018, 019, 024, 028, 029, 041, 048, 051
Kenwood	007, 008, 018, 026, 037	Sharp	020, 034, 045, 015
KLH	070	Shimom	027, 033, 038, 058
Lloyd	025	Signature	025
Logik	038	Sony	027, 033, 044
LXI	025		
Magnavox	021, 036, 056, 059		

Programming the Remote Control for Other Components

VCR Remote Control Codes (continued)

Sylvania	021, 025, 036, 056, 059	Totevision	002, 006
Symphonic	025	Unitech	002
Tandy	018, 025	Vector Research	007, 026
Tashika	006	Victor	026
Tatung	037	Video Concepts	007, 026
Teac	025, 037, 068	Videosonic	002
Technics	021	Wards	002, 003, 006, 019, 020, 021, 024, 025, 034, 038, 041
Teknika	006, 021, 025, 031		
TMK	066	Yamaha	007, 008, 018, 026, 037
Toshiba	003, 019, 029, 051, 052	Zenith	023, 027, 033, 073

Cable Box (CATV) Remote Control Codes




Anvision	017, 018	Regency	015, 023
GI	041	SA	042, 043
Hamlin	003, 024, 031	Samsung	000, 001, 002, 003, 004, 005, 006, 007
Hitachi	025, 030	Scientific Atlanta	042, 043
Jerrold	038, 039	Sprucer	022
Macom	025, 030	Stargate 2000	036
Magnavox	019, 023, 028	Sylvania	016
Oak	026	Texscan	016
Panasonic	003, 022, 027, 037, 044	Tocom	032
Philips	019, 021, 023, 028	Universal	033, 034
Pioneer	004, 018, 020, 044	Viewstar	019, 021, 023, 028
RCA	014, 022, 040	Wamer amex	046
Regal	003	Zenith	017, 029, 035, 037, 045

DVD Remote Control Codes

Samsung	000, 001	LG (Goldstar)	006
JVC	002	Sony	007
PROSCAN/RCA	003	Denon	008
Panasonic	005	Curtis Mathes	009

Disc Type and Characteristics

The DVD player is capable of playing the following types of discs with the corresponding logos:

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD 	Audio + Video	5"	Single-sided: 240 min. Double-sided: 480 min.	<ul style="list-style-type: none"> - DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. - Various screen and audio functions can be easily selected through the on-screen menu.
		3 1/2"	Single-sided: 80 min. Double-sided: 160 min.	
VIDEO-CD 	Audio + Video	5"	74 min.	<ul style="list-style-type: none"> - Video with CD sound, VHS quality and MPEG-1 compression technology.
		3 1/2"	20 min.	
AUDIO-CD 	Audio	5"	74 min.	<ul style="list-style-type: none"> - CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		3 1/2"	20 min.	

Disk Markings



Play Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

NTSC

NTSC broadcast system in U.S.A, Canada, Korea, Japan, etc.

PAL

PAL broadcast system



DTS disc



Dolby Digital disc



MP3

STEREO

Stereo disc



DCDi

DIGITAL SOUND

Digital Audio disc

Troubleshooting: Before Contacting Service Personnel

Before contacting the 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 power switch to “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 volume 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.

Troubleshooting: Before Contacting Service Personnel (continued)

Disc does not play.	<ul style="list-style-type: none">◆ Ensure that the disc is inserted with the label side facing up.◆ Check the region number of the DVD.◆ This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.
5.1 channel sound is not being reproduced.	<ul style="list-style-type: none">◆ 5.1 channel sound is reproduced only when the following conditions are met. :<ol style="list-style-type: none">1) Check whether the proper amplifier is connected.2) The disc is recorded with 5.1 channel sound.<ul style="list-style-type: none">- Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside.- Check if your audio system is connected and working properly.
The "⊗" icon appears on screen.	<ul style="list-style-type: none">◆ The features or action cannot be completed at this time because :<ol style="list-style-type: none">1) The DVD's software restricts it.2) The DVD's software doesn't support the feature (e.g., angles).3) The feature is not available at the moment.4) You've requested a title or chapter number or search time that is out of range.
Disc Menu doesn't appear.	<ul style="list-style-type: none">◆ Check if the disc has a Menu.
Playback mode differs from the Setup Menu selection.	<ul style="list-style-type: none">◆ Some of the functions selected in the Setup menu may not work properly if the disc is not encoded with the corresponding function.
If you experience other problems.	<ul style="list-style-type: none">◆ Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again.◆ If the problem still cannot be solved, please contact your nearest authorized service center.

– 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.

