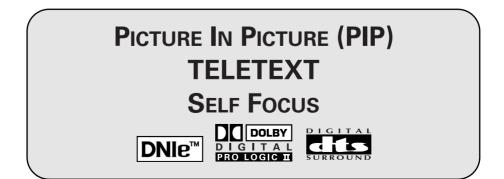


# COLOR TELEVISION SP43H3HT

# **Owner's Instructions**

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



S tandard 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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The license only covers the use of this product unit to encode and/or decode audio files conforming to the ISO/IEC 11172-3 or ISO/IEC 13818-3. No rights are granted under this license for product features or functions that do not conform to the ISO/IEC 11172-3 or ISO/IEC 13818-3.

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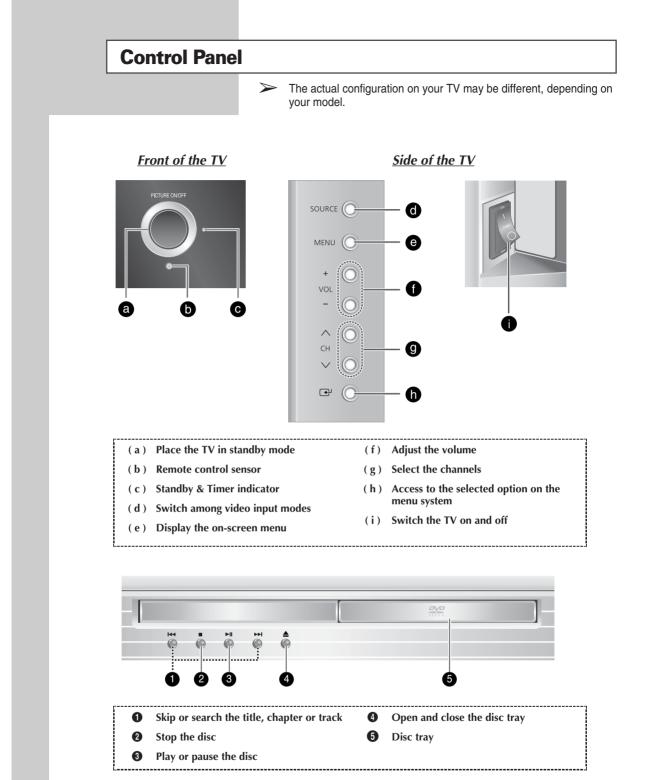
Symbols



Important

>> Note

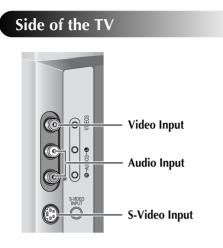
English - 5



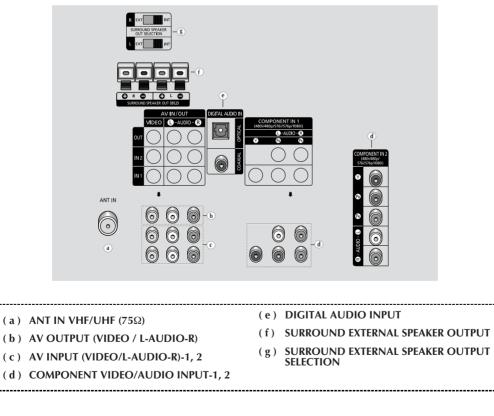
- You can use the  $\wedge$  CH  $\vee$  buttons to switch on the TV when it is in standby mode depending on
  - Fou can use the x < Cn < buildens to swhich on the Y when it is in standby mode depending of the model.</li>
     The XOL is and A Ollis is buildens have the same function as the A/T/A/N butters.
    - ◆ The VOL + and ∧ CH ∨ buttons have the same function as the ▲/▼/◄/► buttons on the remote control.
    - If the remote control no longer works or your have lost it, you can use controls on the panel of the TV.

#### **Connection Panel**

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



#### Rear of the TV



For further details about connection, refer to pages 71~76.

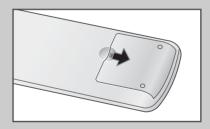
Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

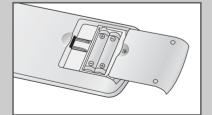
#### **Using a Display Deck**

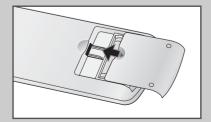


You can display a VCR or DVD Player, etc. by using the display deck.

#### **Inserting the Batteries in the Remote Control**



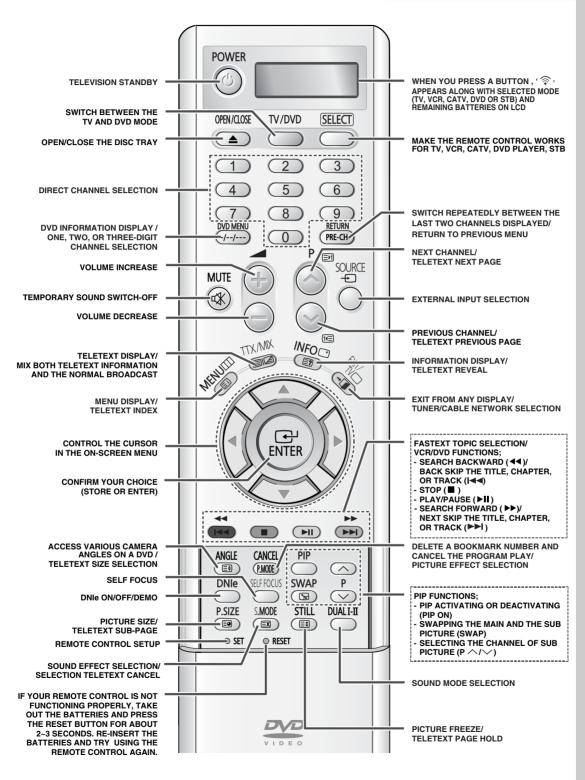




You must insert or replace the batteries in the remote control when you:

- Purchase the television
- Find that the remote control is no longer operating correctly
- 1 Remove the cover on the rear of the remote control by pressing the symbol (*▼*) downwards and then pulling firmly to remove it.
- 2 Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities:
  - on the battery against on the remote control
  - + on the battery against + on the remote control
- **3** Replace the cover by aligning it with the base of the remote control and pressing it back into place.

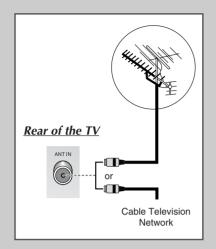
#### **Infrared Remote Control**



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

English - 9

#### **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  $75\Omega$  coaxial socket on the rear of the television.
- 2 If you are using an indoor aerial, you may need to turn it when tuning your television until you obtain a picture that is both sharp and clear.

For further details, refer to:

- "Storing Channels Automatically" on page 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 Coaxial cable

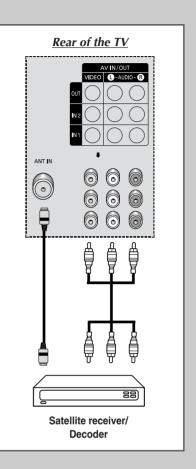
Connect a coaxial cable to the:

- Receiver (or Decoder) output socket.
- Television aerial input socket.

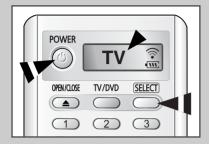
If you wish to connect both a satellite receiver (or decoder) and a VCR, you should connect the:

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

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



#### **Switching Your Television On and Off**



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

- 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 toward "ON" (I).
  - <u>Result</u>: 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.
  - <u>Result</u>: The programme that you were watching last is reselected automatically.
    - If your television isn't turned on when the POWER (()) button is pressed, press the SELECT button to check if the "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 toward "**OFF**".

#### **Placing Your Television in Standby Mode**



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

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

1 Press the **POWER** ((2)) button on the remote control.

<u>Result</u>: 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 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 toward "OFF". It is best to unplug the set from the mains and aerial.

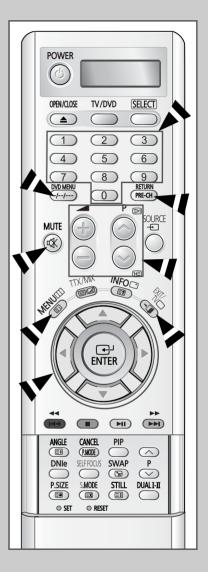
#### **Becoming Familiar with the Remote Control**

#### 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	
$\bigcirc$	Used to display the next stored channel.	_	
	Used to display the previous stored channel.	-	
0 to 9	pushed immediately	onding channels. nels, the second digit must be after the first. Failure to do this will channel being displayed	
-//	Used to select a channel nu Press this button, and the "- Enter the two or three-digit	" or "" symbol is displayed.	
PRE-CH	Press the <b>PRE-CH</b> button. The TV will switch to the last channel viewed. To quickly switch between two channels that are far apart, tune to one channel, then use the numeric buttons to select second channel. Then, use the <b>PRE-CH</b> button to quickly alternate between them.		
(+)	Used to increase the volume.	-	
$\overline{}$	Used to decrease the volume.	-	
<b>MUTE</b> (	<ul> <li>Used to switch the sound off temporarily.</li> <li>➤ To turn the sound back on, press this button again, or press the → or → button.</li> </ul>		
<b>MENU</b> ( )	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.	
	-	<ul> <li>Used to:</li> <li>◆ Display a submenu containing selections for the current menu option</li> <li>◆ Increase/decrease a menu option value</li> </ul>	
ENTER	-	Used to confirm your choice.	
<b>TV</b> ( )	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 ( → I I)	-	Used to exit from the any display.	



#### **Plug & Play Feature**

Plug & Play Start Plug & Play
ОК
⊡ Enter Ⅲ Exit
Plug & Play Language English ♦ Move ⊕ Enter III Skip
Plug & Play Check antenna input. OK C+ Enter III Skip
Plug & Play Area Asia/W. Europe CIS/East Europe China Hong Kong/UK Australia NZ/Indonesia ▼
🜩 Move 🖼 Enter 🎞 Skip
<b></b>
Plug & Play Auto Store Start G <sup>2</sup> Enter III Skip
Plug & Play Clock Set Hour Minute am/pm 
Plug & Play Enjoy your watching.
English - 14

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.

<u>Result</u>: The message **Start Plug & Play** is displayed.

- 2 To start the 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.
  - <u>Result</u>: The message **Check antenna input.** is displayed.
- 4 Make sure that the antenna is connected to the TV, and then press the **ENTER** ( ) button.
  - <u>Result</u>: The **Area** menu is displayed.
- 5 Select your area by pressing the ▲ or  $\nabla$  button. Press the ENTER ( $\bigcirc$ ) button to confirm your choice.
  - <u>Result</u>: The **Auto Store** menu is displayed.
- **6** To start the channel store, press the **ENTER** ( ) button.
  - Result: The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range (with lowest first and highest last). When it has finished, the **Clock Set** 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, Minute or am/pm. 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 setting has finished all, 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 ...

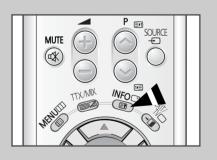
1	Press the <b>MENU</b> (IIII) button.		
	Result:	The main menu is displayed.	
2	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Setup</b> is selected.		
	Result:	The options available in the <b>setup</b> group are displayed.	
3	Press the ENTER ( 🕞 ) button.		
4	Press the ▲ or ▼ button until the Plug & Play option is selected. Press the ENTER ( , button.		
	<u>Result</u> :	This feature starts with the message <b>Start Plug</b> & <b>Play</b> is displayed.	

**5** For further details on how to set, refer to the opposite page.



#### **Displaying Information**

You can view the channel information and setting status you select by pressing the "INFO ( )" button on the remote control.



P 1 Mono	
Picture Mode Sound Mode Dolby Pro Logic II 12 : 02 am	: Dynamic : Standard : Off

## **Choosing Your Language**



τv		Setup	
	Time Plug & Play Language Self Focus Blue Screen Melody	: English : Off : On	
\$ Mo	ve GPE	inter 🎞 F	leturn

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 <b>MENU</b> (IIII) button.		
	Result: The main menu is displayed.		
2	Press the ▲ or ▼ button until the <b>Setup</b> is selected.		
	<u>Result</u> : The options available in the <b>Setup</b> group are displayed.		
3	Press the ENTER ( 🕑 ) button.		
4	Press the ▲ or ▼ button until the <b>Language</b> is selected. Press the <b>ENTER</b> ( → ) button.		
	Result: The languages available 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)**

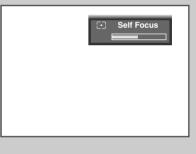
The "Self Focus" feature automatically finds the optimum picture quality when blurring, overlapping colors or incorrect focus occurs. These conditions may be caused by moving your TV.

1	Press the <b>MENU</b> (IIII) button.		
	Result: The main menu is displayed.		
2	Press the ▲ or ▼ button until the Setup is selected.		
	<u>Result</u> : The options available in the <b>Setup</b> 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 horizontal bar is displayed. During the process, minor distortions of the picture may occur. At this time, the colors 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, all of things will disappear and the optimum picture quality can be enjoyed.
    - You can also set these options simply by pressing the SELF FOCUS button.
  - Changing channels and any other signal changes will pause the 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 the Self Focus**





τv	Self Focus		
<b>*</b>	Self Focus	►	
	Auto Message Display	: Off : On	
\$ Mov	ve 🕑 Enter	III Return	

The "Self Focus" feature starts on 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, the "Self Focus" will automatically begin again after another 30 minutes, as the screen image is then fully stabilised.

1	Press the Press the <b>MENU</b> (Ⅲ) button. <u>Result</u> : The main menu is displayed.	
2	Press the ▲ or ▼ button until the <b>Setup</b> is selected. <u>Result</u> : The options available in the <b>Setup</b> group are displayed.	
3	Press the ENTER ( 🚭 ) button.	
4	Press the ▲ or ▼ button until the <b>Self Focus</b> is selected. Press the <b>ENTER</b> ( 🕑 ) button.	
	Result: The options available in the <b>Self Focus</b> 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 <b>off</b> by pressing the ▲ or ▼ button. Press the <b>ENTER</b> (   ) button to confirm.	

#### **Removing the "Self Focus" from the Display**

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

<u>Result</u>: The main menu is displayed.

- Press the ▲ or ▼ button until the setup is selected.
   <u>Result</u>: 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.
  - <u>Result</u>: 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 horizontal bar on the screen during the self focus process, select **off** by pressing the ▲ or ▼ button. Press the **ENTER** ( ↔ ) button to confirm.

тν		Setup	
	Time		►
	Plug & Play		
, jul	Language	: English	
	Self Focus		
<u> </u>	Blue Screen	: Off	
ZAN	Melody	: On	
Ð			
\$ Mo	ve Œ E	nter 🖽	Return





#### **Storing Channels Automatically**





	Search	
20	channels are memorized.	
	ОК	

You can scan for the frequency ranges available to you, (availability depends on your area). 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** (IIII) 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 Area option selected.
- 5 Press the ENTER ( → ) button once again. Select your area by pressing the ▲ or ▼ button. Result: The areas available are listed.
- 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. <u>Result</u>: The search will end automatically. Channels are sorted and stored in an 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 (IIII) 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)
  - Clear a channel (see page 24)
  - Fine-tune channel reception if necessary (see page 26)
  - Activate/deactivate the LNA (Low Noise Amplifier) feature (see page 27)
  - 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 ( IIII ) button.
	Result:	The main menu is displayed.
2	Press the	▲ or ▼ button until the <b>Channe1</b> is selected.
	<u>Result</u> :	The options available in the <b>Channel</b> group are displayed.
3	Press the	ENTER (군) button.
4		<ul> <li>▲ or ▼ button until the <b>Sort</b> is selected. Press the</li> <li>→ ) button.</li> </ul>
	Result:	The <b>sort</b> menu is displayed.
5		e channel that you wish to move by pressing the $\blacktriangle$ or $\blacktriangledown$ ess the <b>ENTER</b> ( $\boxdot$ ) button.
6		number of the programme to which the channel is to be pressing the ▲ or ▼ button. Press the ENTER (⊡)
	Result:	The channel is moved to its new position and all other

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





τν	Sort
<b>*</b>	Prog.CH
	1 C ( C
	<b>•</b>
11	
A Move     A	🕑 Enter 🛛 🖽 Return

#### **Storing Channels Manually**



тν	Manual Stor	re
	Programme	
	A I Auto BG	C
	2 Auto BG 3 Auto BG	
	4 Auto BG ▼	
Mov		
\$ Mov	e 🕑 Enter 🛛	III Return





	Manual Store	
Prog.	Color System	Sound System
1	Auto	BG
СН	Search	Store
C	83MHz	?
<b>∢</b> ▶ Move	<b>♦</b> Adjust	🖽 Return

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 <b>MENU</b> (IIII) button.
	Result: The main menu is displayed.
2	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Channel</b> is selected.
	Result: The options available in the <b>Channel</b> 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 <b>Prog.</b> is selected.
6	To assign a programme number to a channel, find the correct number by pressing the $\blacktriangle$ or $\blacksquare$ button.
7	If necessary, select the broadcasting standard required. Press the

 $\blacktriangle$  or  $\blacktriangledown$  button. The color standards are displayed in the following order.

Auto - PAL - SECAM - NT4.43 - NT3.58

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 - M

English - 22

#### 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 CH 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.
  - <u>Result</u>: 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 **ox** 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 max P99. You can select a channel by entering the position number in this mode.
- C (Real channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- S (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.









## **Skipping Unwanted Channels**



You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those that you have chosen to skip are thus 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 <b>Channe1</b> is selected.	
	Result:	The options available in the <b>Channe1</b> group are displayed.	
3	Press the	ENTER (군) button.	
4	Press the ▲ or ▼ button until the <b>Add/Delete</b> is selected. Press the <b>ENTER</b> ( ( ) button.		
	<u>Result</u> :	The <b>Add/Delete</b> menu is displayed with the current channel selected.	
5	Press the <b>CH</b> $\land$ or $\checkmark$ button to delete or add the required channel. Press the <b>ENTER</b> ( $\bigcirc$ ) button.		

#### **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. Thus, by keeping the remote control away from unauthorised users, such as children, you can prevent them from watching unsuitable programme.

1	Press the <b>MENU</b> ( I ) button.
	Result: The main menu is displayed.
2	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Channel</b> is selected.
	Result: The options available in the <b>Channel</b> group are displayed.
3	Press the ENTER ( 🕑 ) button.
4	Press the ▲ or ▼ button until the <b>Child Lock</b> is selected. Press the <b>ENTER</b> ( ↔ ) button.
	<u>Result</u> : The <b>Child Lock</b> menu is displayed and the current channel is shown as selected.
5	Press the $\blacktriangle$ or $\blacktriangledown$ button to select the channel to be locked.
6	Pross the ENTER ((2)) button. To lock the channel select

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.





тν	c	hild Lock
- <b>-</b>	Prog.	Lock
		Locked
0		Unlocked
	3	Unlocked Unlocked
	4	
↓ Move	⊡ Ent	er 🎞 Return
- wove		

## **Fine Tuning Channel Reception**







	Fine Tune	
P 1	*	
	Reset	5
🗢 Move	G Enter	III Return

	Fine Tune	
P 1		
		•
	Reset	]
🗢 Move	G Enter	III Return

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 <b>MENU</b> (IIII) button.
	Result: The main menu is displayed.
2	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Channel</b> is selected.
	Result: The options available in the <b>Channel</b> group are displayed.
3	Press the ENTER ( 🚭 ) button.
4	Press the ▲ or ▼ button until the <b>Fine Tune</b> is selected. Press the <b>ENTER</b> ( ,) 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 setting.
	Result: The program number turns in red.
6	To store the fine tuning setting in the TV's memory, press the ENTER ( ⊡ ) button.
	Result: The " <b>*</b> " symbol is displayed
7	To reset the fine tuning to <b>0</b> , select <b>Reset</b> by pressing the $\blacktriangle$ or $\blacktriangledown$ button then press the <b>ENTER</b> ( $\boxdot$ ) button.

#### 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.

1	Press the <b>MENU</b> ( IIII ) button.
	Result: The main menu is displayed.
2	<ul> <li>Press the ▲ or ▼ button until the Channel is selected.</li> <li>Result: The options available in the Channel group are displayed.</li> </ul>
3	Press the ENTER ( 🚭 ) button.
4	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>LNA</b> is selected. Press the

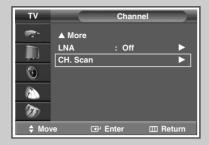
5 Select off or on by pressing the ▲ or ▼ button. Press the ENTER ( ⊡) button to confirm.

ENTER ( 🖵 ) button.





## **Viewing the Channel Scan Picture**



CH. Scar P 8	60	
	<u></u> Return	

- 1 Press the **MENU** (IIII) button.
  - Result: The main menu is displayed.
- **2** Press the  $\blacktriangle$  or  $\blacktriangledown$  button until the **Channel** is selected.
  - <u>Result</u>: The options available in the **Channel** group are displayed.
- 3 Press the ENTER ( ) button.
- 4 Press the ▲ or ▼ button until the **CH. Scan** is selected. Press the **ENTER** ( ← ) button.
  - <u>Result</u>: You can view every memorized channel in order.

#### **Changing the Picture Standard**

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

1	Press the	e MENU ( [[]] ) button.
	Result:	The main menu is displayed.
2	Press the	e ▲ or ▼ button until the <b>Picture</b> is selected.
	Result:	The options available in the <b>Picture</b> group are displayed.
3	Press the	e ENTER ( 단 ) button.
	<u>Result</u> :	The <b>Mode</b> is selected.
4	Press the	e ENTER ( 단 ) button again.
	Result:	The options available are listed.
5	Select the	e required option by pressing the $\blacktriangle$ or $\blacktriangledown$ button.
	Result:	The following modes are available:
		Dynamic — Standard — Movie — Custom
6	Press the	e 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)

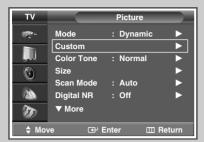








#### **Customizing the Picture Settings**





Contrast	0	100

	Picture	
Mode Custom	: Dynamic	•
Color Tone	: Normal	
Size Scan Mode	: Auto	
Digital NR ▼ More	: Off	
	Enter III	Return
	Custom Color Tone Size Scan Mode Digital NR ▼ More	Mode : Dynamic Custom Color Tone : Normal Size Scan Mode : Auto Digital NR : Off ▼ More

Color Tone Normal

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

- 1 Press the **MENU** (IIII) button.
  - Result: The main menu is displayed.
- **2** Press the  $\blacktriangle$  or  $\blacktriangledown$  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, Color or Tint-NTSC only) to be adjusted by pressing the ▲ or ▼ button. Press the ENTER ( ⊡) button.
  - <u>Result</u>: The horizontal bar is displayed. Press the ◄ or ► button until you reach the setting.
  - If you make any changes to the custom settings, the picture standard is automatically switched to the Custom.
- 6 Press the MENU (□□) button to return to the Picture menu. Press the ▲ or ▼ button until the Color Tone is selected. Press the ENTER (⊡) button.
- 7 Select the required color tone (Warm 1 ~ Warm 10, Normal, Cool 1 ~ Cool 10) by pressing the ◄ or ► button.

#### **Selecting the Picture Size (4:3 Model)**

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

1	Press the	e MENU ( 🎞 ) button.
	Result:	The main menu is displayed.

- 2 Press the ▲ or ▼ button until the Picture is selected. <u>Result</u>: The options available in the Picture group are displayed.
- **3** Press the **ENTER** ( → ) button.
- Press the ▲ or ▼ button until the size is selected. Press the ENTER ( → ) button.
   Result : The size menu is displayed.
- Select the required mode by pressing the ▲ or ▼ button. Press the ENTER ( ⊡ ) button.
   <u>Result</u>: The following modes are available:
  - Normal
     Adjusts the picture to fit into a 4:3 normal aspect ratio. (Prolonged use in 4:3 mode may cause the lifespan of the CRT to be reduced.)

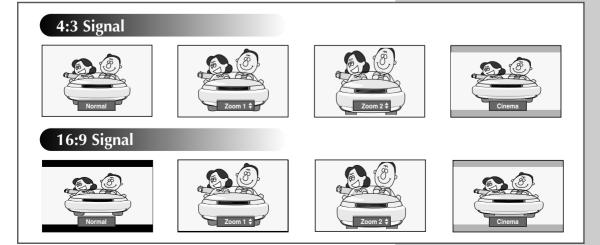
     Zoom 1
     Vertically enlarges the picture approximately 130%.

     Zoom 2
     Vertically enlarges the picture about approximately
  - 150%.
  - **Cinema** When the top and bottom of the screen margin are black (blank), they will change to gray.
  - Lifting is available in the zoom 1 or zoom 2 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 can not be changed in the PIP mode.









### **Selecting the Picture Size (Wide Model)**

1

2

3

4

5





	ANGLE E3 DNIe P.SIZE E3 o SET	CANCEL (P.MODE) SELF FOCUS S.MODE (EX) (C) RESI	PIP SWAP STILL	P V DUALI-II	

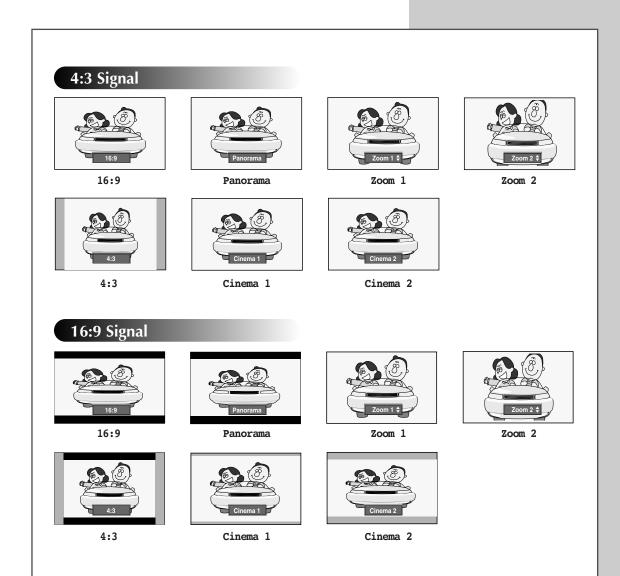
You can select the picture size which best corresponds to your viewing requirements.

Press the M	ENU ( IIII ) button.
<u>Result</u> : T	he main menu is displayed.
Press the 🔺	or ▼ button until the <b>Picture</b> is selected.
	he options available in the <b>Picture</b> group are lisplayed.
Press the El	NTER ( 🕑 ) button.
Press the ▲ ENTER ( Œ	or ▼ button until the <b>Size</b> is selected. Press the
Result: T	he <b>Size</b> menu is displayed.
	equired mode by pressing the $\blacktriangle$ or $\blacktriangledown$ button. Press ( $\boxdot$ ) button.
<u>Result</u> : T	he following modes are available:
16:9	Adjusts the picture to fit into the 16:9 wide aspect ratio.
Panorama	Adjusts a Wide picture to appear natural.
Zoom 1	Vertically enlarges the picture approximately 130%.
Zoom 2	Vertically enlarges the picture about approximately 150%.
4:3	Adjusts the picture to fit into a 4:3 normal aspect ratio. (Prolonged use in 4:3 mode may cause the lifespan of the CRT to be reduced.)
Cinema 1	To maintain optimum screen display, the picture is vertically enlarged and the letterboxed (black margin) area is filled with gray instead.
Cinema 2	When the top and bottom of the screen margin are black (blank), they will change to gray.
	ing is available in the <b>Zoom 1</b> or <b>Zoom 2</b> mode by ssing the $\blacktriangle$ or $\blacksquare$ button.
	otitles may be cut-off or hidden below the screen area acom 1, Zoom 2, Cinema 1 and Cinema 2 modes.

 $\succ$ 

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

#### Selecting the Picture Size (Wide Model) (continued)



## **Selecting the Scan Mode**



τv		Picture
	Mode Custom Color Tone Size Scan Mode Digital NR ▼ More	: Dynamic
◆ Move ⊡ Enter III Retu		

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 <b>MENU</b> (IIII) button.	
	Result: The main menu is displayed.	
2	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Picture</b> is selected.	
	Result: The options available in the <b>Picture</b> group are displayed.	
3	Press the ENTER ( 🚭 ) button.	
4	Press the $\blacktriangle$ or $\lor$ button until the <b>Scan</b> Mode is selected. Press the <b>ENTER</b> ( $\textcircled{\bullet}$ ) button.	
5	Select the required option by pressing the $\blacktriangle$ or $\blacktriangledown$ button.	
	Result: The following modes are available:	
	Auto — Natural — Digital — Progressive	
6	Press the ENTER ( 🕑 ) button to confirm.	

#### **Using the Digital NR (Digital 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 <u>Result</u> :	MENU (Ⅲ) button. The main menu is displayed.
2	Press the	• <b>A</b> or $\mathbf{\nabla}$ button until the <b>Picture</b> is selected.
	<u>Result</u> :	The options available in the <b>Picture</b> group are displayed.
3	Press the ENTER ( 🕞 ) button.	
4	Press the ▲ or ▼ button until the <b>Digital NR</b> is selected. Press the <b>ENTER</b> ( ↔ ) button.	
5	Select of	<b>f</b> or <b>On</b> by pressing the $\blacktriangle$ or $\blacktriangledown$ button. Press the

тν Picture Mode : Dynamic -Custom Color Tone : Normal Size Scan Mode : Auto 2 Digital NR : Off ▼ More 20 A Move 🕑 Enter 🛛 🖽 Return



#### **Freezing the Current Picture**

ENTER ( 🕞 ) button to confirm.

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

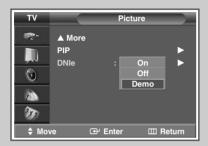


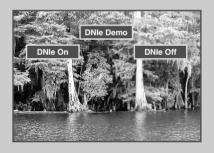
If you press the **STILL** button during PIP on, the main picture is stilled, not sub picture.



### DNIe<sup>™</sup> (Digital Natural Image engine) DNIe<sup>™</sup>







••			** 	
ANGLE (E3) DNIe P.SIZE	CANCEL (P.MODE) SELF FOCUS S.MODE	PIP SWAP STILL	P V DUALI-II	

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 image. DNIe<sup>™</sup> technology will always deliver the best quality pictures from any signal.

1	Press the <b>MENU</b> ( [[]] ) button.		
	Result: The main menu is displayed.		
2	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Picture</b> is selected.		
	Result: The options available in the <b>Picture</b> group are displayed.		
3	Press the ENTER ( 🕑 ) button.		
4	Press the ▲ or ▼ button until the <b>DNIe</b> is selected. Press the <b>ENTER</b> ( ⊡ ) button.		
5	<ul> <li>Press the ▲ or ▼ button to change the setting. Press the ENTER ( → ) button to confirm.</li> <li>On: Switches on the DNIe mode.</li> <li>Off: Switches off the DNIe mode.</li> <li>Demo (Option) : The screen before applying DNIe appears on the right and the screen after applying DNIe appears on the left.</li> </ul>		

You can select these options simply by pressing the DNIe button.

#### **Setting the Blue Screen Mode**

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

1	Press the MENU ( IIII ) button.		
	Result: The main menu is displayed.		
2	Press the $\blacktriangle$ or $\blacksquare$ button until the <b>Setup</b> is selected.		
	Result: The options available in the <b>Setup</b> group are displayed.		
3	Press the ENTER ( 🚭 ) button.		
4	Press the ▲ or ▼ button until the <b>Blue Screen</b> is selected. Press the <b>ENTER</b> ( 🔁 ) button.		

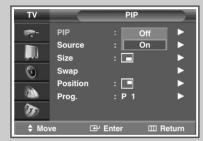
5 Select off or on by pressing the ▲ or ▼ button. Press the ENTER ( ↔ ) button to confirm.





# **Viewing the Picture In Picture (PIP)**









T۷			PIP		
- <b>1</b>	PIP		On	►	•
	Source		тν	•	
, juli	Size			•	•
$\odot$	Swap			Þ	
	Position	:		•	•
Z	Prog.		P 1	►	
- TO					
🕈 Mov	/e	🕑 Ent	er	III Return	1

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

1	Press the <b>MENU</b> ( I ) button.		
	Result: The main menu is displayed.		
2	Press the $\blacktriangle$ or $\blacksquare$ button until the <b>Picture</b> is selected.		
	Result: The options available in the <b>Picture</b> group are displayed.		
3	Press the ENTER ( 🚭 ) button.		
4	Press the ▲ or ▼ button until the <b>PIP</b> is selected. Press the <b>ENTER</b> ( ⊕ ) button.		
	<u>Result</u> : The <b>PIP</b> menu is displayed with <b>PIP</b> option selected.		
5	Press the <b>ENTER</b> ( ↔ ) button again. To activate, set the <b>PIP</b> to <b>on</b> by pressing the ▲ or ▼ button. Press the <b>ENTER</b> (↔) button.		
6	Press the $\blacktriangle$ or $\triangledown$ button until the <b>source</b> is selected. Press the <b>ENTER</b> ( $\boxdot$ ) button.		
	Result: The sources available are displayed.		
	TV - AV1 - AV2 - AV3 - S-Video		
7	Select a source of the sub picture by pressing the ▲ or ▼ buttor Press the ENTER ( ↔ ) button		
8	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Size</b> is selected. Press th <b>ENTER</b> ( $\textcircled{\bullet}$ ) button.		
	<u>Result</u> : The sizes available are displayed.		
	12-PIP : You can view up to 12 memorized channels on the sub picture spontaneously.		
	<ul> <li>On the 12-PIP or 3-PIP mode, it is impossible to execute swap and position.</li> </ul>		
9	Select a size of the sub picture by pressing the $\blacktriangle$ or $\checkmark$ button Press the <b>ENTER</b> ( $\textcircled{\bullet}$ ) button.		
10	Press the ▲ or ▼ button until the <b>swap</b> is selected. Press the <b>ENTER</b> ( ↔ ) button.		
	<u>Result</u> : The main picture and the sub picture are interchanged.		
	> Not available in 12-PIP or 3-PIP modes.		

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### Viewing the Picture In Picture (PIP) (continued)

- 11 Press the ▲ or ▼ button until the **Position** is selected. Press the **ENTER** ( → ) button.
  - Result: The positions available are displayed.

- The Position menu is available when the Size is Large or Small.
- 12 Select a position of 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 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 sub picture.

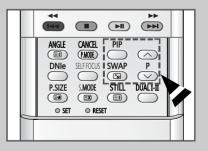
### Easy functions of remote control.

Buttons	Feature		
PIP	Used to activate or deactivate the PIP function directly.		
SWAP	<ul> <li>Used to interchange the main picture and the sub picture.</li> <li>When the main picture is in the Video mode and the sub picture is in the TV mode, you might not hear the sound of main picture when pressing the SWAP ( ) button after changing the sub picture channel. At this time, reselect the channel of main picture.</li> </ul>		
P^/~	Used to select the channel of sub picture.		

тν		PIP	
<b>*</b> *	PIP	: On	►
	Source	: TV	
	Size	:	
	Swap		
	Position		
20	Prog.	:	
¢ Mov	ve 🗗		Return

τv		PIP	
- <b>1</b>	PIP	: On	►
	Source	: TV	
, juli	Size	: 🗖	
<b>O</b>	Swap		
	Position	: 🗖	
ZA	Prog.	: P 1	
- TO			
🗘 Mo	ve ⊡	<sup>µ</sup> Enter □	I Return

ΤV		PIP	
-	PIP	: On	
	Source	: TV	
, in the second s	Size	:	
	Swap		
- SDA	Position	: 🗖	
ZA	Prog.	: <b>P</b> 1	
N.			
🔷 Adjust 🛛 🎞 Return			



# **Changing the Sound Standard**









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

1	Press the <b>MENU</b> ( I ) button.				
	Result: The main menu is displayed.				
2	Press the $\blacktriangle$ or $\blacksquare$ button until the <b>Sound</b> is selected.				
	Result: The options available in the <b>Sound</b> 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 $\blacktriangle$ or $\blacktriangledown$ 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 sound quality.

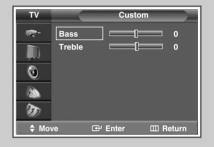
1	Press the <b>MENU</b> ( IIII ) button.				
	Result: The main menu is displayed.				
2	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Sound</b> is selected.				
Result: The options available in the <b>sound</b> group are					
3	Press the ENTER ( 🕑 ) button.				

4 Press the ▲ or ▼ button until the **Custom** is selected. Press the **ENTER** ( ⊡ ) button.

<u>Result</u>: 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. Press the ◄ or ► button to reach the required setting.
- 6 Press the ◀ or ► button to reach the required setting. Press the ENTER ( ↔ ) button to confirm.
  - If you make any changes to the custom settings, the sound standard is automatically switched to the Custom.





тν		Cus	tom	
<b>1</b>	Bass			0
, III	Treble			0
٢				
2				
T				
\$ Mo	ve	<b>∢</b> ► Adjust	III Re	eturn

## **Adjusting the Volume Automatically**



тν		Sound	
	Mode Custom Auto Volume Dolby Digital Digital Audio In	: Standard : Off On nput	
\$ Mo	ve 🕀 En	iter 🎞 Re	turn

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

- Press the MENU (□□) button. <u>Result</u>: The main menu is displayed.
   Press the ▲ or ▼ button until the Sound is selected. <u>Result</u>: The options available in the Sound group are displayed.
   Press the ENTER (□·) button.
   Press the ▲ or ▼ button until the Auto Volume is selected. Press the ENTER (□·) button.
   Select off or on by pressing the ▲ or ▼ button. Press the
  - 5 Select **Off** or **On** by pressing the ▲ or ▼ button. Press the **ENTER** ( → ) button to confirm.

## **Setting the Dolby Digital**

The Dolby Digital mode allows you enjoy Dolby Digital sound effect fully with the speakers are connected to the television. This allows various modes for the main, center, surround and woofer speakers to be selected.

1	Press the <b>MENU</b> ( I ) button.		
	Result: The main menu is displayed.		
2	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Sound</b> is selected.		
	<u>Result</u> : The options available in the <b>sound</b> group are displayed.		
3	Press the ENTER ( 🚭 ) button.		
4	Press the ▲ or ▼ button until the <b>Dolby Digital</b> is selected. Press the <b>ENTER</b> ( , button.		
	Result: The Dolby Digital menu is displayed with the Dolby ProLogic II is selected.		
5	Press the ENTER ( ) button again. Select off or on by		

- 5 Press the ENTER (⊡) button again. Select off or on by pressing the ▲ or ▼ button. Press the ENTER (⊡) button to confirm.
  - For further details of output depending on the each options, 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  $\blacktriangle$  or  $\blacktriangledown$  button. Press the **ENTER** ( $\boxdot$ ) button to confirm.
  - Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942, 5,956,674, 5,974,380,



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









### Setting the Dolby Digital (continued)



т٧		Level Con	trol
	Test Tone	:[	Off
	Front Left		On B
العور	Center		OdB
$\odot$	Front Right		0dB
34	Rear Right		0dB
Z	Rear Left		0dB
m	Sub Woofer		OdB
\$ Mov	ve ⊡ I	Enter	III Return

тν		Level Co	ntrol	
<b>1</b>	Test Tone	: (	Off I	
	Front Left		0dl	в
	Center		0di	В
$\odot$	Front Right		0d	в
34	Rear Right		0di	в
ZAN	Rear Left		0di	в
T	Sub Woofer		0dl	в
\$ Mov	/e <b>∢</b> ▶∦	Adjust	🖽 Retur	'n

тν	Dolby	Digital	
- <b>1</b>	Dolby Pro Logic II	: Off	
	Dynamic Range	: Off	
, juli	Level Control		
٢	Time Delay		
2			
- TO			
\$ Mov	/e 🕑 Enter		Return

τv		Time De	lay			
÷	Rear Right		5ms			
	Rear Left		5ms			
0						
2						
- TT						
\$ Mov	/e <b>∢</b> ►A	djust	III Return			
	English - 44					

- 8 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 is selected.
- 9 Press the ENTER ( ⊕ ) button again. To simulate the volume of speakers, select the **on** by pressing the ▲ or ▼ button. Press the ENTER ( ⊕ ) button.
- 10 Select the speaker (Front Left, Center, Front Right, Rear Right, Rear Left or Sub Woofer)by pressing the ▲ or ▼ button. Press the ENTER ( ) button.
- 11 Select the speaker to be simulate, adjust the volume by pressing the ◀ or ► button.
- 12 When you have finished the level control, press the **MENU** (IIII) button.
  - <u>Result</u>: The **Dolby Digital** menu is displayed again.
- 13 To set the delay time of surround channel, select the **Time Delay** by pressing the ▲ or ▼ button. Press the **ENTER** ( ) button.
- 14 Select the option (**Rear Right**, **Rear Left**) to be adjusted by pressing the ▲ or ▼ button. Press the **ENTER** ( → ) button. Press the ◄ or ► button to reach the required setting. Press the **ENTER** ( → ) button to confirm.

In case of "Dolby	Pro Logic II : Off"
-------------------	---------------------

Input (Source)	Output	Main Left	Center	Main Right	Right	ear Left	Sub Woofer
. ,	ono	~		~			(🖌)
PCM Ste	ereo (L/R)	~		~			(1)
	Mono	~		~			(🖌)
Dolby	Lo/Ro	~		~			(🖌)
Digital	Lt/Rt	~		~			(🖌)
	5.1ch	~	<b>v</b>	~	~	>	~
D	TS	~	~	~	~	~	~
MPEG I (S	Stereo only)	~		~			(🖌)
MP	EG II	~	~	~	~	~	~

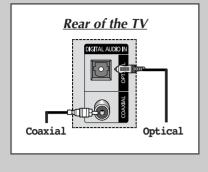
# In case of "Dolby Pro Logic II : On"

Innut	Output		Center N	Main	Rear		Sub
(Source)		Left	Center	Right	Right	Left	Woofer
Мо	ono	~	~	~	~	~	~
PCM Ste	ereo (L/R)	~	<b>v</b>	~	~	~	~
	Mono	~	~	~	~	~	~
Dolby	Lo/Ro	~	<b>v</b>	~	~	~	~
Digital	Lt/Rt	~	~	~	~	~	~
	5.1ch	~	<b>v</b>	~	~	~	~
D	TS	~	~	~	~	~	~
MPEG I (S	Stereo only)	>		~	~	~	<ul> <li>✓</li> </ul>
MPI	EG II	~	~	~	~	~	<ul> <li>✓</li> </ul>



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

## **Setting the External Digital Sound**



тν		Sound	
te h	Mode Custom	: Custom	•
	Auto Volume Dolby Digital	: Off	•
	Digital Audio I	nput	
T			
Mor	ve 🕑 En	ter 🎞 R	eturn

τv		Digital	Audio Input
-	Optical		
	Coaxial		AV1
, juli			AV2
0			AV3
			S-Video
ZA			Component1
T			Component2
\$ Mov	/e	🕑 Enter	r 🎹 Return

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

- 1 Press the **MENU** (IIII) button.
  - Result: The main menu is displayed.
- **2** Press the  $\blacktriangle$  or  $\blacktriangledown$  button until the **sound** is selected.
  - <u>Result</u>: 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.
  - <u>Result</u>: The options available in the **Digital Audio Input** group are displayed.
- 5 Select the option (**Optical**, **Coaxial**) by pressing the ▲ or ▼ button. Press the **ENTER** ( 🕒 ) button.
  - The **Optical** and **Coaxial** options 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 of digital audio in the form of a light wave, S/PDIF format using a glass conductor.
    - **Coaxial** : The digital audio signal is received through a coaxial copper cable.
- 6 Select the required output (AV1, AV2, AV3, S-Video, Component1 or Component2) by pressing the ▲ or ▼ button. Press the ENTER ( ( → ) button to confirm.

## **Setting the Melody Sound**

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

1	Press the <b>MENU</b> ( IIII ) button.
	Result: The main menu is displayed.
2	Press the $\blacktriangle$ or $\blacktriangledown$ button until the <b>Setup</b> is selected.
	<u>Result</u> : The options available in the <b>Setup</b> group are displayed.
3	Press the ENTER ( 관 ) button.
4	Press the ▲ or ▼ button until the <b>Melody</b> is selected. Press the <b>ENTER</b> ( ↔ ) 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**

ANGLE CANCEL PIP B (MODE) DNIe SELFOCUS SWAP P SSUE SMODE STILL DUALI-II B (EX) (EX) (EX) O SET O RESET	

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
	Regular broadcast (Standard audio)	Mono (Normal use)
NICAM	Regular + NICAM Mono	NICAM ↔ Mono Mono (Normal)
Stereo	NICAM Stereo	NICAM ↔ Mono Stereo (Normal)
	NICAM Dual I/II	NICAM → NICAM → Mono Dual I Dual II (Normal)
	Regular broadcast (Standard audio)	Mono (Normal use)
A2 Stereo	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 the Mono.

- If the stereo signal is weak and an automatic switching occurs, then switch to the **Mono**.
- When receiving a mono sound in the AV mode, connect to the "AUDIO-L" input connector on the panel (front or side, depending on the model). If the mono sound comes out only from left speaker, press the **DUAL I-II** button.

## **Setting and Displaying the Current Time**

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

>

When pressing the "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.

<u>Result</u>: 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.

- 5 Press the ENTER ( ) button.
- 6 Press the ◄ or ➤ button to move to the Hour, Minute or am/pm. 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.









<sup>&</sup>lt;u>Result</u>: The options available in the **Time** group are displayed with **Clock** is selected.

# **Setting the Sleep Timer**





τv			Time	
-	Clock		Off	
	Sleep Timer		30	
, juli	On Timer		60	
	Off Timer		90	
			120	
ZA			150	
۶D			180	
✦ Move - ⊡ Enter - ⊡ Return				

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

1	Press the <b>MENU</b> (IIII) button.
	Result: The main menu is displayed.
2	Press the $\blacktriangle$ or $\blacksquare$ button until the <b>Setup</b> is selected.
	Result: The options available in the <b>Setup</b> group are displayed.
3	Press the ENTER ( 💬 ) button.
4	Press the ▲ or ▼ button until the <b>Time</b> is selected. Press the <b>ENTER</b> ( ↔ ) button.
	<u>Result</u> : The options available in the <b>Time</b> group are displayed.
5	Press the ▲ or ▼ button until the <b>Sleep Timer</b> is selected. Press the <b>ENTER</b> ( ↔ ) button.
6	Select the preset time interval ( <b>0ff</b> , <b>30</b> , <b>60</b> , <b>90</b> , <b>120</b> , <b>150</b> , <b>180</b> ) for staying on by pressing the ▲ or ▼ button. Press the ENTER ( 관 ) 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's 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** (Ⅲ) button. <u>Result</u>: The main menu is displayed.
- Press the ▲ or ▼ button until the setup is selected.
   <u>Result</u>: The options available in the setup group are displayed.
- 3 Press the ENTER ( ) button.
- Press the ▲ or ▼ button until the **Time** is selected. Press the ENTER ( → ) button.
   <u>Result</u>: The options available in the **Time** group are displayed.
- 5 Press the ▲ or ▼ button until the on Timer is selected. Press the ENTER ( → ) button.
  <u>Result</u>: The options available in the On Timer group are displayed.
- 6 Select the Hour, Minute, am/pm, Prog No. (programme number) or Volume. Press the ◄ or ► button to set these by pressing the ▲ or ▼ button.
- 7 To activate the **On Timer** with the settings satisfied, select **Activation** to by pressing the **◄** or **▶** button, then select **Yes** by pressing the **▲** or **▼** button.
- 8 Press the MENU (□□) button.
   <u>Result</u>: 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. <u>Result</u>: The **off Timer** menu is displayed.
- 10 Set the Off Timer as methods for On Timer setting.

### > Absent Power Off

When you set the timer "On", your television will eventually be turned off, if you do not operate any controls during the 3 hours after the TV is turned on by timer. This function is available in only the timer "On" mode and will prevent a leakage accident or overheating, caused by your TV left on for a long time due to the timer "On" (when you are away on holiday, for example).











English - 51

## **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 (IIII) button.
	<u>Result</u> :	The options available in the <b>Input</b> group are displayed.
2	Press the	ENTER ( 🕑 ) button.
	Result:	The <b>Source List</b> is selected.
3	Press the	ENTER ( ( 군 ) button again.
4		▲ or ▼ button to select signal source, then press the
	ł	When you connect equipment to the TV, you can choose between the following sets of jacks : <b>AV1</b> , <b>AV2</b> , <b>Component1</b> or <b>Component2</b> on the TV's rear panel, and <b>AV3</b> or <b>S-Video</b> on the TV's side panel.
		You can select these options simply by pressing the <b>SOURCE</b> ( - ) button.
5	Press the	MENU ( [ ] ) button.
	<u>Result</u> :	The options available in the <b>Input</b> group are displayed again.
6		▲ or ▼ button until the Edit Name is selected. ENTER ( 근) button.
7		▲ or ▼ button to select the external source to be edited. ENTER (
	Result:	The device names available are listed.
		VCR - DVD - Cable STB - HD STB - Satellite STB - AV Receiver - DVD Receiver - Game - Camcorder - DVD Combo - DHR (DVD HDD Recorder) - PC.
8		required device by pressing the $\blacktriangle$ or $\triangledown$ button. ENTER ( ) button to confirm.

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

## **Playing a Disc**

### Playback

- 1 Press the TV/DVD button to switch the 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 ►II (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  $\blacktriangleright$  II (Play/Pause) button during playback, then screen stops and no sound.

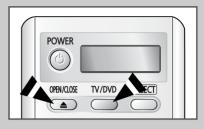
To resume, press the  $\blacktriangleright$  (Play/Pause) button again. It will pick up where you left off (unless the disc is removed, the  $\blacksquare$  (Stop) button is pressed twice or the set is unplugged.).

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

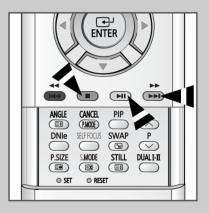
### Slow Motion Play (Except CD)

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

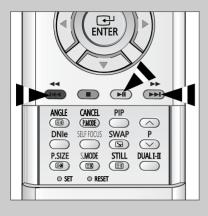
- By pressing the ▶▶ (Forward search) button for a second during pause, you can select slow motion playback for 1/2, 1/4, 1/8 or 1/16 of normal speed.
- No sound is heard during slow mode.
- Press the ►II (Play/Pause) button to resume normal playback.
- When playing a VCD, the reverse slow motion play 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 again to search at a faster speed (2X/4X/8X/16X/32X) on the DVD, VCD, CD.
- To return to normal speed playback, press the ►II (Play/Pause) button.
- When in search mode (2X/4X/8X/16X/32X) on a DVD or highspeed playback on a VCD, no sound will be heard.

### **Skipping Tracks**

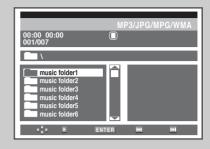
Press the ►► (Next skip) or ◄◄ (Back skip) button during playback.

- When playing a DVD, if you press the ▶►I (Next skip) button, it moves to next chapter. If you press the I◄◄ (Back skip) button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a CD, if you press the ▶▶I (Next skip) button, it moves to next track. If you press the I◄◀ (Back skip) button, it moves to the beginning of the track. One more press makes it move 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 next track.
   If you press the I<< (Back skip) button, it moves to the the beginning of the track. One more press makes it move to the beginning of the previous track.</li>
- If a track exceeds 15 minutes when playing a VCD and you press the
   ▶►I (Next skip) button, it moves forward 5 minutes. If you press the
   I<</li>
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- 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 I◄ (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 ►II (Play/Pause) or **OPEN/CLOSE** (▲) button to close the disc tray.
- 2 Press the ▲ or ▼ button to select the desired music folder, then press the ENTER ( ↔ ) or ► button.
- 3 Press the ▲ or ▼ button again to select a song file. Press the ENTER ( ↔ ) or ► II (Play/Pause) button to begin play of the song file.
- To play another song file of the same music folder, press the ■
   (Stop) button and press the ▲ or ▼ button to select a song file.

   Press the ENTER ( → ) or ▶ II (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 ISO 9660 or JOLIET format.

ISO 9660 format and Joliet MP3 files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. These two formats are the most widely used.

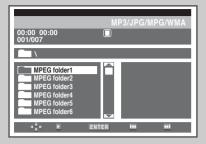
When naming your MP3 files do not exceed 8 characters, and place ".mp3" as the file extension. General name format of: Title.mp3. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (.,/,\,=,+).

### • Use a decompression transfer rate of at least 128 Kbps when recording MP3 files.

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.

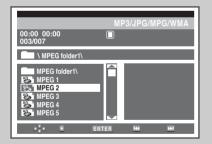
- ◆ Do not try recording copyright protected MP3 files. Certain "securized" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media<sup>™</sup> (registered trade mark of Microsoft Inc) and SDMI<sup>™</sup> (registered trademark of The SDMI Foundation). You cannot copy such files.
- Your DVD player only accepts one level of file directory. Consequently you must choose:
   either to save all your MP3 recording files at the root 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 sound quality. You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, 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 ►II (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 a MPEG file. Press the ENTER ( → ) or ► II (Play/Pause) button to begin play of the MPEG file.
- To play another MPEG file of the same MPEG folder, press the (Stop) button and press the ▲ or ▼ button to select a MPEG folder. Press the ENTER ( → ) or ►II (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** ( $\triangleq$ ) button. Place a disc gently into the tray with the disc's label facing up. Press the **II** (Play/Pause) or **OPEN/CLOSE** ( $\triangleq$ ) button to close the disc tray.

### Rotating and Reversing the picture

1 Press the ▲ or ▼ button to select the desired picture file of the file list, then press the ENTER ( ↔) button.

Result: The selected picture is displayed.

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  $\blacktriangle$  or  $\triangledown$  button to select the desired picture file of the file list, then press the  $\triangleright$ II (Play/Pause) button.

Result: It enters slide show mode.

 $\succ$  If you want to return to the file list, press the  $\blacksquare$  (Stop) button.

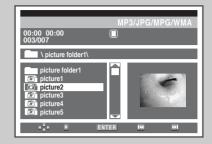
### Viewing the Album Screen

1	Press the DVD MENU button during slide show.		
	<u>Result</u> :	The DVD menu is displayed with the <b>Disc Menu</b> is 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 I << (back skip) button.
- 4 Press the ▲/▼/◀/▶ button to select the desired picture, then press the ▶II (Play/Pause) button.

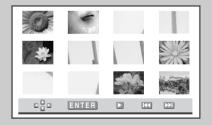
<u>Result</u>: It enters slide show mode again.

If you press the ENTER ( ) button after selecting the desired picture, the selected picture will be displayed only.

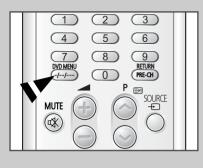








## **Using the Disc Menu**



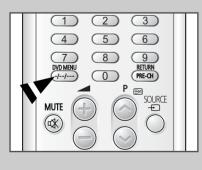


1 Press the **DVD MENU** button.

Result: The DVD menu is displayed with the **Disc Menu** is 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.
- The **Title Menu** will only be displayed if there are at least two titles in 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 $\blacktriangle$ or $\triangledown$ button to select <b>Function</b> .	
	Result: The options available in the <b>Function</b> group are displayed.	
3	Press the ENTER ( 단 ) button.	
	Result: The Info menu is selected.	
4	Press the ENTER ( 🕑 ) button again.	
	Result: Depending on the disc, the disc information will be displayed.	
	$\succ$ You can display by simply pressing the <b>INFO</b> ( $\_$ ) button.	
5	Press the $\blacktriangle$ or $\blacktriangledown$ button to select the required item. Press the $\triangleleft$ or $\triangleright$ button to make the required setup, then press the <b>ENTER</b> ( $\boxdot$ ) button.	
	$\succ$ You may use the number buttons of the remote control to	

You may use the number buttons of the remote control to start play from a desired time.

than one movie on a DVD, each movie will be identified.

**6** To make the screen disappear, press the **INFO** ( ) button.









To access the desired title when there is more than one in the disc. For example, if there is more

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

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



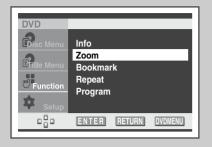
Refers to the language of the film soundtrack. In the example, the soundtrack is played in English 5.1ch. A DVD disc can have up to eight different soundtracks.



Refers to the subtitle languages available in the disc. You will be able to choose the subtitles language or, if you prefer, turn them off from the screen. 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 a title.

# Using the Zoom Function (DVD/VCD)

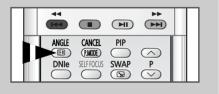




1 Press the **DVD MENU** button. The DVD menu is displayed. Result: 2 Press the  $\blacktriangle$  or  $\triangledown$  button to select Function. Result: The options available in the Function group are displayed. 3 Press the ENTER ( ) button. 4 Press the  $\blacktriangle$  or  $\checkmark$  button to select **zoom**. Press the **ENTER** ( $\bigcirc$ ) button. The " 🗣 " mark is displayed. Result: 5 Press the ENTER ( ) button repeatedly to zoom in on (DVD or VCD: 2X, 3X, 4X, 1/2X, 1/3X, 1/4X in order). 6 Press the A/V/A/F button to select the part of the screen you

want to zoom in on (2X/3X/4X).

## **Changing the Camera Angle**



1/9 👓		

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 the desired 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 $\blacktriangle$ or $\blacksquare$ button to select <b>Function</b> .		
	Result: The options available in the <b>Function</b> group are displayed.		
3	Press the ENTER ( 🕑 ) button.		
4	Press the ▲ or ▼ button to select <b>Bookmark</b> . Press the <b>ENTER</b> (↔) button.		
5	Press the $\blacktriangleleft$ or $\blacktriangleright$ button to move to the desired 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).		

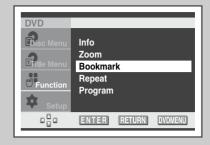
### **Recalling a Marked Scene**

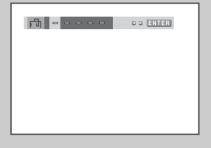
Press the ◀ or ► button to select a marked scene. Press the ►II (Play/Pause) button to skip to the marked scene.

### Clearing a Bookmark

Press the  $\triangleleft$  or  $\triangleright$  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.





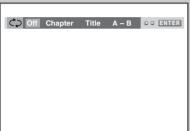




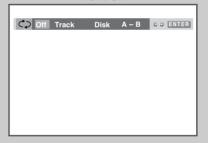
## **Repeat Play**







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  $\blacktriangle$  or  $\triangledown$  button to select **Function**. The options available in the Function group are Result: displayed. 3 Press the ENTER ( ) button. 4 Press the  $\blacktriangle$  or  $\blacktriangledown$  button to select **Repeat**. Press the ENTER ( ) button. 5 Press the  $\blacktriangleleft$  or  $\blacktriangleright$  button to select the chapter, title or A-B. Press the ENTER (+) button.
  - The DVD repeats play by chapter or title, the CD and VCD repeat play 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 the repeat play to start.
- 2 Press the ◀ or ► button to select **B**. Press the **ENTER** (↔) button at the point where you want the repeat play to stop.
  - If the title or track is completed before marking the end (B), the end of 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.

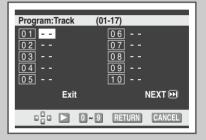
## **Program Play (CD)**

1	Press the DVD MENU button.		
	Result: The DVD menu is displayed.		
2	Press the $\blacktriangle$ or $\blacktriangledown$ button to select <b>Function</b> .		
	Result: The options available in the <b>Function</b> group are displayed.		
3	Press the ENTER ( 💬 ) button.		
4	Press the ▲ or ▼ button to select <b>Program</b> . Press the <b>ENTER</b> (←) button.		
5	Press the numeric buttons to select the first track to add to the program.		
	Result: Selected numbers are displayed in the first track.		
6	Press the $A/V/A/P$ button to move the next tray. Follow the above instruction for programming.		
7	Press the ►II (Play/Pause) button.		
	Result: The disc will be played in programmed order.		

Depending on the disc, this function may not work.

- ◆ Press the (Stop) button twice to cancel program play during playback.
- ◆ Opening the tray by pressing the **OPEN/CLOSE** (▲) button cancels program play.

DVD		_	
Bisc Menu	Info		
<b>Fitle Menu</b>	Zoom Bookmari	k	
Function	Repeat		
Setup	Program		
	ENTER	RETURN	DVDMENU

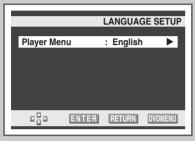


Program:Track	(01-17)	
01 03	06	
02	07	
03	08	
04	09	
05	10	
Exit	Start NEX	Т 🕩
	~9 RETURN CA	NCEL

OPEN/CLOSE	TV/DVD	SELECT	
	$\bigcirc$	$\bigcirc$	
	2	3	
4	5	6	

# Setting up the Language for Player Menu





PLAY	ER MENU LANGUAGE
Player Menu	: <mark>English</mark> Français Deutsch Español Italiano Nederlands
	R RETURN DVDMENU

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

1	Press the <b>DVD MENU</b> button.		
	Result:	The DVD menu is displayed.	
2	Press the	▲ or ▼ button to select <b>Setup</b> .	
	<u>Result</u> :	The options available in the <b>Setup</b> group are displayed.	
3	Press the	ENTER ( 🕞 ) button.	
	Result:	The Language Setup is selected.	
4	Press the	ENTER ( 🕞 ) button again.	
	Result:	The <b>Player Menu</b> is selected.	
5	Press the	ENTER (⊡) button again. ▲ or ▼ button to select the appropriate language, then ENTER (⊡) button.	

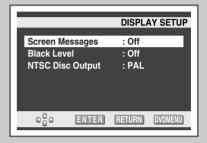
- This function depends on what languages are encoded on the disc and may not work with all DVDs.
  - If the selected language is not recorded on the disc, the original pre-recorded language is selected.

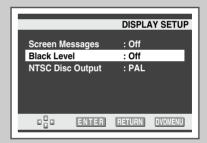
### **Setting up the Display Options**

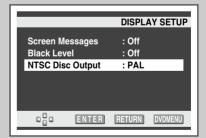
1	Press the <b>DVD MENU</b> button.			
	Result:	The DVD menu is displayed.		
2	Press the ▲ or ▼ button to select <b>Setup</b> .			
	<u>Result</u> :	The options available in the <b>Setup</b> group are displayed.		
3	Press the ENTER ( 🕒 ) button.			
4	Press the ▲ or ▼ button to select <b>Display Setup</b> . Press the <b>ENTER</b> (→) button.			
	<u>Result</u> :	The options available in the <b>Display Setup</b> group are displayed.		
5		▲ or ▼ button to select the required menu (Screen 5, Black Level, or NTSC Disc Output).		

- 6 Select the appropriate option by pressing the ENTER (↔) or button.
  - Screen Messages : On or Off. Use to turn 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 NTSC system, select NTSC. For the PAL system, select PAL. Otherwise, there may be no color or abnormal color.

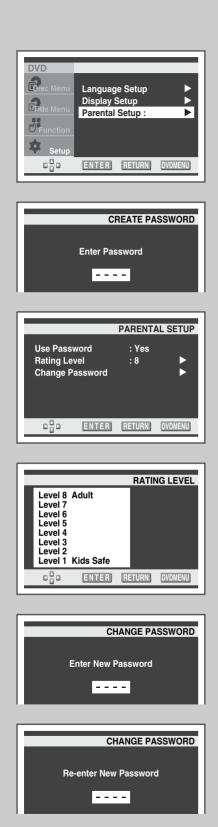
DVD Bisc Menu Afte Menu Parental Setup			
Display Setup         ►           Parental Setup :         ►	DVD		
Parental Setup :	Bisc Menu	Language Setup	►
	Bitle Menu		
□ □ Function	Function	Fareniai Selup .	
Setup	Setup		
		ENTER RETURN	DVDMENU







# **Setting up the Parental Control**



English - 66

1	Press the	DVD MENU button.		
	Result:	The DVD menu is displayed.		
2	Press the	ress the ▲ or ▼ button to select <b>Setup</b> .		
	<u>Result</u> :	The options available in the <b>Setup</b> group are displayed.		
3	Press the	ENTER ( 🕒 ) button.		
4		▲ or ▼ button to select <b>Parental Setup</b> . Press the →) button.		
	Result:	The Enter Password is displayed.		
5	Enter the	default password (0000) by using the numeric buttons.		
	<u>Result</u> :	The options available in the <b>Parental Setup</b> group are displayed with the <b>Use Password</b> is selected.		
		ou have lost your password, enter the master password <b>69</b> ).		
6	Select Ye	<b>s</b> by pressing the $\blacktriangleright$ button to use a password.		
	<u>Result</u> :	The <b>Rating Level</b> and <b>Change Password</b> are displayed.		
7	About th	e Rating Level;		
		ress the ▲ or ▼ button to select <b>Rating Level</b> . Press ne <b>ENTER</b> ( ←) button.		
	а	ress the ▲ or ▼ button to select the level (e.g. Level 8) nd press the ENTER ( ( ) button. viscs that contain Level 7 will now not play.		
		cancel the rating level, select <b>No</b> in the <b>Use Password</b> essing the $\blacktriangleright$ button.		
8	About th	e Change Password;		
	P	ress the ▲ or ▼ button to select <b>Change Password</b> . ress the <b>ENTER</b> ( → ) button. <u>lesult</u> : The <b>Enter New Password</b> is displayed.		
		nter your new password. <u>lesult</u> : The <b>Re-enter New Password</b> is displayed.		
	<b>3</b> F	e-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
А	Selected page number.
В	Broadcasting channel identity.
С	Current page number or search indications.
D	Date and time.
Е	Text.
F	Status information. FASTEXT information.

Teletext information is often divided between several pages displayed in sequence, which can be accessed by:

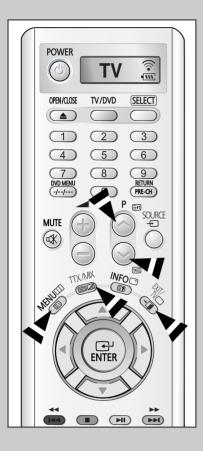
- Entering the page number
- Selecting a title in a list
- Selecting a colored heading (FASTEXT system)

[
Е
F

# **Displaying the Teletext Information**

1

2



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

<ul> <li>For Teletext information to be displayed correctly, channel reception must be stable; otherwise:</li> <li>Information may be missing</li> <li>Some pages may not be displayed</li> </ul>
Select the channel providing the Teletext service using the $\mathbf{P}\bigcirc$ or $\bigcirc$ button.
Press the TTX/MIX (I) button to activate the teletext mode.         Result:       The contents page is displayed. It can be redisplayed at any time by pressing the I) (index) button.

- **5** Press the **TV** ( ) button to exit from the teletext display.

## **Selecting Display Options**

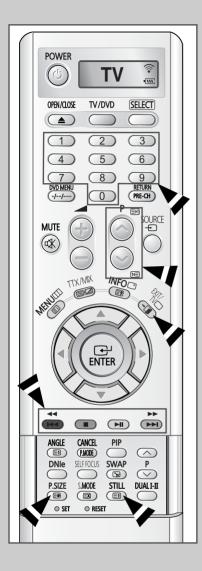
When you have displayed a Teletext page, you can select various options to suit your requirements.

To display	Press the
<ul> <li>Hidden text (answers to quiz games, for example)</li> </ul>	E? (reveal)
The normal screen	(reveal) again
♦ A secondary page	■ (sub-page)
• The broadcast when searching for a page	(cancel)
<ul><li>The next page</li><li>The previous page</li></ul>	Image up) Image (page down)
<ul> <li>Double-size letters in the:</li> <li>Upper half of the screen</li> <li>Lower half of the screen</li> </ul>	(size) ● 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**



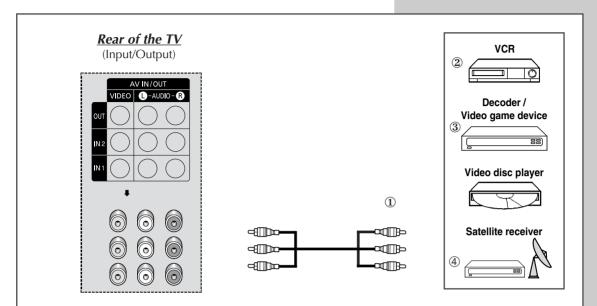
You can enter the page number directly by pressing the numeric buttons on the remote control.

- 1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.
  - Result: The current page counter is incremented 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 (I) (hold). Press it again to resume.
- 2 If the FASTEXT system is used by the broadcasting company, the different topics covered on a Teletext page are color-coded and can be selected by pressing the colored buttons on the remote control.

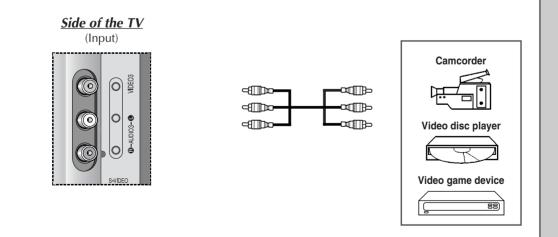
Press the colored button corresponding to the topic that you wish to select; the available topics are given on the status line.

- <u>Result</u>: The page is displayed with other colored information that can be selected in the same way.
- **3** To display the previous or next page, press the corresponding colored button.
- 4 To display the subpage, see the following steps.
  - Press the (sub-page) button.
     <u>Result</u>: The available subpages appear.
  - Select the required sub-page. Sub-pages can be scrolled by pressing the I or I button.
- 5 When you have finished, press the **TV** ( ) button to return to your normal broadcast.

### **Connecting to the External Devices**



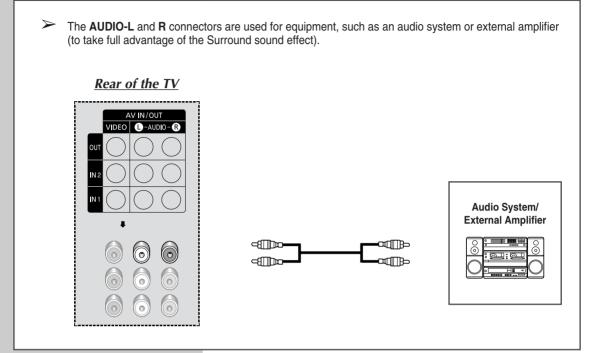
- 1 This end can be fitted with:
  - Three RCA connectors (VIDEO + AUDIO-L and R)
- ② If you have a second VCR and wish to copy cassettes tape, connect the source VCR to IN 1 (or IN 2) and the target VCR to OUT so that you can redirect the signal from source VCR to target VCR.
- ③ If you have a decoder, connect the decoder to the VCR and the VCR to the television.
- ④ When you wish to record a programme, connect the receiver to IN 1 (or IN 2) and the VCR to OUT so that you can redirect the signal from IN 1 (or IN 2) to OUT.
- (5) **OUT** is used for displaying the current picture to an external device. When you wish to record the current picture, connect the VCR to **OUT**.



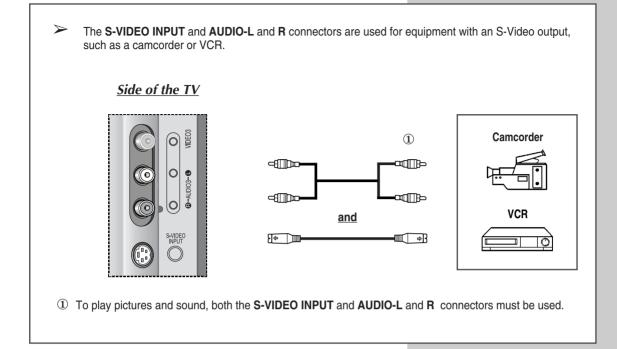
Whenever you connect an audio or video system to your television, ensure that <u>all</u> elements are switched <u>off</u>.

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

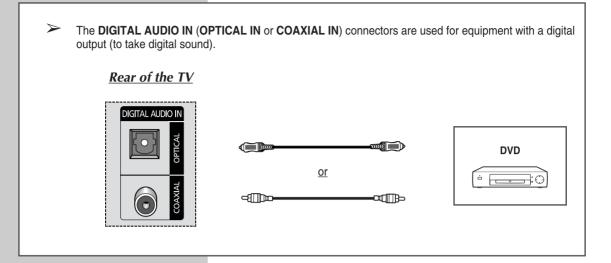
# **Connecting to the Audio Outputs**



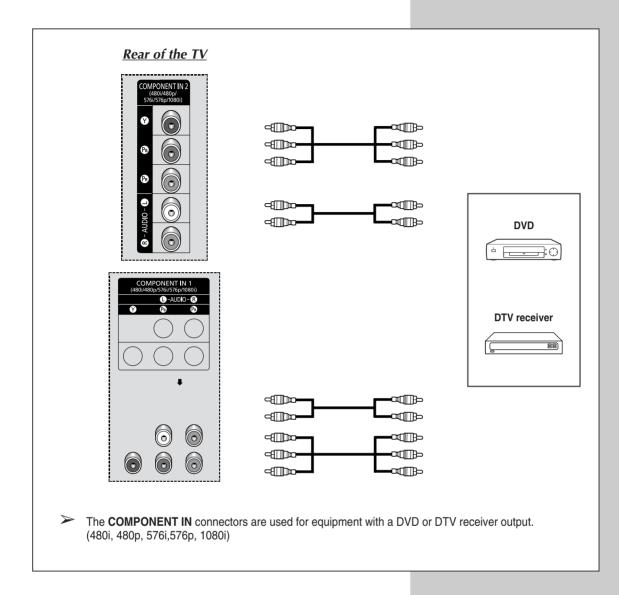
## **Connecting to the S-Video Input**



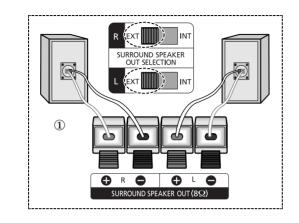
# **Connecting to the Digital Audio Input**



# **Connecting to the Component Input**



# **Connecting Additional Speakers**



- The SURROUND SPEAKER OUT connectors are used for 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.
- $\succ$  To improve the sound quality, connect the:
  - Red wire to the red terminal
  - Black wire to the black terminal
- > Speakers can be purchased separately.

### **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).

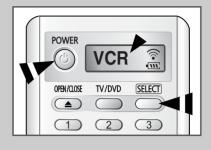


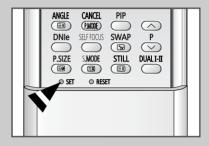
The remote control might not be compatible with all VCRs, DVD players and Cable boxes.

- **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 next page for your VCR (Cable box or DVD).

Example: To enter the code "6", press 0, 0, and 6. To enter the code "76", press 0, 7, and 6.

- 5 Press the **POWER** (③) 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 steps above, but try one of the other codes listed for the brand of particular yours.
- 6 Once your remote control is set up, press the **SELECT** button any time you want to use the remote control to operate VCR (Cable box or DVD).
  - When your remote control is in the VCR, CATV, DVD or STB mode, the volume buttons still control your television's volume.
    - When your remote control is in the 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,	NEC	007, 008, 018, 026, 037, 062, 064
	066	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,	Philips	021, 036
	034, 040, 047, 050, 052, 060, 063, 065,	Pioneer	019, 026, 039, 053
	066, 067, 069	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,
LG (Goldstar)	006, 007, 008, 009, 010		034, 048, 056
Harman Kardon	007	RCA	002, 017, 019, 021, 035, 041, 043,
Hitachi	019, 025, 041, 042		057, 068
Instant Replay	021	Samsung	000, 001, 002, 003, 004, 005
JC Penny	002, 007, 018, 019, 021, 026, 037, 041,	Sansui	026
	054, 056	Sanyo	018, 024
JVC	007, 008, 018, 021, 026, 037	Scott	003, 047, 052, 067
Kenwood	007, 008, 018, 026, 037	Sears	006, 018, 019, 024, 028, 029, 041,
KLH	070		048, 051
Lioyd	025	Sharp	020, 034, 045, 015
Logik	038	Shimom	027, 033, 038, 058
LXI	025	Signature	025
Magnavox	021, 036, 056, 059	Sony	027, 033, 044

# **Programming the Remote Control for Other Components**

Culuania	001 005 006 056 050	Totovision	200, 000
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,
Teknika	006, 021, 025, 031		034, 038, 041
ТМК	066	Yamaha	007, 008, 018, 026, 037
Toshiba	003, 019, 029, 051, 052	Zenith	023, 027, 033, 073

### VCR Remote Control Codes (continued)

### 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**

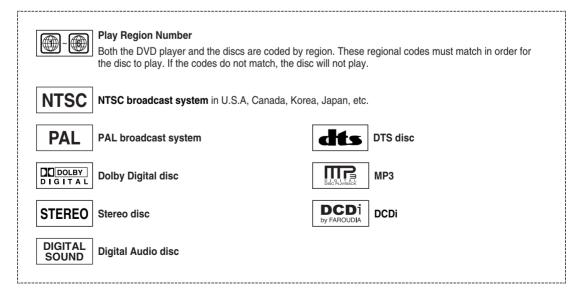
Samsung 000, 001	LG (Goldstar) 006
JVC 002	Sony 007
PROSCAN/RCA 003	Denon 008
Panasonic 005	Curtis Mathes 009

## **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	DVD Audio + Video	5"	Single-sided: 240 min. Double-sided: 480 min.	<ul> <li>DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system.</li> </ul>
V I D E O		31/2"	Single-sided: 80 min. Double-sided: 160 min.	<ul> <li>Various screen and audio functions can be easily selected through the on-screen menu.</li> </ul>
VIDEO-CD	Audio + Video	5"	74 min.	<ul> <li>Video with CD sound, VHS</li> <li>quality and MPEG-1</li> <li>compression technology.</li> </ul>
		31/2"	20 min.	
AUDIO-CD 5"	74 min.	<ul> <li>CD is recorded as a Digital Signal with better audio quality, less distortion and less</li> </ul>		
	Audio	31/2"	20 min.	deterioration of audio quality over time.

### **Disk Markings**



English - 80

## Troubleshooting: Before Contacting Service Personnel

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

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

No sound or picture	<ul> <li>Check that the mains lead has been connected to a wall socket.</li> <li>Check that you have pressed the power switch toward "OFF" and the POWER ((()) button.</li> <li>Check the picture contrast and brightness settings.</li> <li>Check the volume.</li> </ul>
Normal picture but no sound	<ul> <li>♦ Check the volume.</li> <li>♦ Check whether the volume MUTE (ﷺ) button on the remote control has been pressed.</li> </ul>
No picture or black and white picture	<ul> <li>Adjust the color settings.</li> <li>Check that the broadcast system selected is correct.</li> </ul>
Sound and picture interference	<ul> <li>Try to identify the electrical appliance that is affecting the television, then move it further away.</li> <li>Plug your television into a different mains socket.</li> </ul>
Blurred or snowy picture, distorted sound	<ul> <li>Check the direction, location and connections of your aerial. This interference often occurs due to the use of an indoor aerial.</li> </ul>
Remote control malfunctions	<ul> <li>Replace the remote control batteries.</li> <li>Clean the upper edge of the remote control (transmission window).</li> <li>Check the battery terminals.</li> </ul>

# Troubleshooting: Before Contacting Service Personnel (continued)

Disc does not play.	<ul> <li>Ensure that the disc is installed with the label side facing up.</li> <li>Check the region number of the DVD.</li> <li>This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.</li> </ul>
5.1 channel sound is not being reproduced.	<ul> <li>5.1 channel sound is reproduced only when the following conditions are met. :         <ol> <li>Check whether the proper amplifier is connected.</li> <li>The disc is recorded with 5.1 channel sound.</li> <li>Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside.</li> <li>Check if your audio system is connected and working properly.</li> </ol> </li> </ul>
The "⊘" icon appears on screen.	<ul> <li>The features or action cannot be completed at this time because : <ol> <li>The DVD's software restricts it.</li> <li>The DVD's software doesn't support the feature (e.g., angles).</li> <li>The feature is not available at the moment.</li> <li>You've requested a title or chapter number or search time that is out of range.</li> </ol></li></ul>
Disc Menu doesn't appear.	<ul> <li>Check if the disc has a Menu.</li> </ul>
Playback mode differs from the Setup Menu selection.	Some of the functions selected in the <b>Setup</b> menu may not work properly if the disc is not encoded with the corresponding function.
If you experience other problems.	<ul> <li>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.</li> <li>If the problem still cannot be solved, please contact your nearest authorized service center.</li> </ul>

## Memo

### - 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.



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