

LCD TV

LE15S51B LE20S51B LE20S51BU

- 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.



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

This marking shown on the product or its literature, indicates that it should not be disposed with other

household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

LE15S51B/LE20S51B/LE20S51BU

Owner's Instructions

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

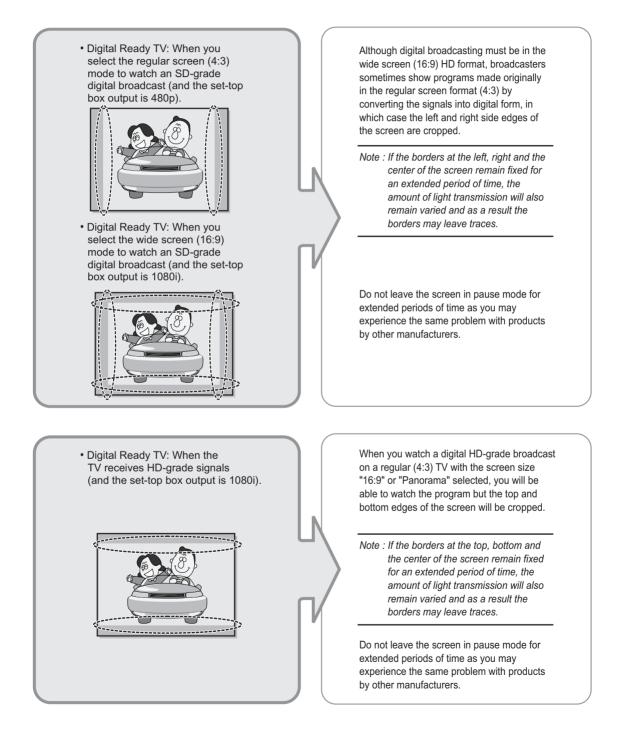


This device is a Class B digital apparatus. Register your product at www.samsung.com/global/register

BN68-00963A-00

Precautions When Displaying a Still Image

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



 Integrated Digital TV Although digital broadcasting must be in the (Wide-screen): When the TV wide screen (16:9) HD format, broadcasters receives SD-grade (regular) sometimes show programs made originally broadcasting signals (receives in the regular screen format (4:3) by 480p regular signals). converting the signals into digital form, in which case the left and right side edges of • Digital Ready TV (wide-screen): the screen are cropped. digital TV: When the TV receives SD-grade (regular) broadcasting Note : If the borders at the left, right and the signals (with a set-top box). center of the screen remain fixed for an extended period of time, the When you watch an analogue amount of light transmission will also (regular) broadcast on a wide-screen TV (with the 4:3 screen remain varied and as a result the mode selected). borders may leave traces. Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers. · When you watch a DVD, CD or a If you connect a DVD player, computer or a video in wide screen (21:9) format on game console to the wide-screen TV and a wide-screen (16:9) TV. watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left · When you connect a computer or a and right side edges, or the top and bottom game console to the TV and select edges of the screen will be cropped. the 4:3 screen mode. Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces. Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

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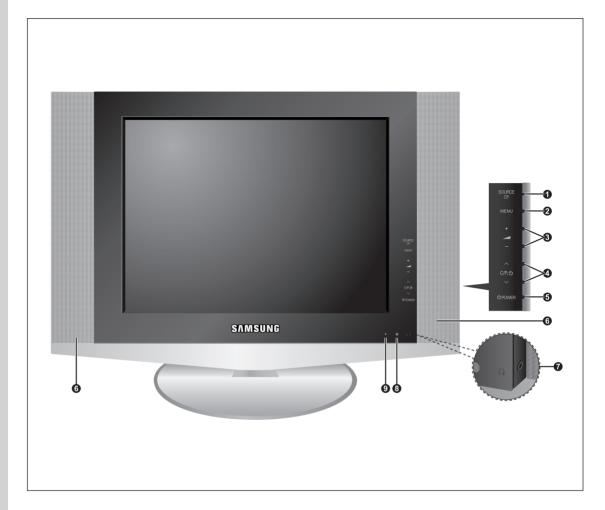
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(CF) Important > Note





Displays a menu of all of the available input sources (TV - AV1 - AV2 - S-Video - PC).

2MENU

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

3- +

Moves the selector left or right on the OSD. Decreases or increases the level of audio volume and the values of the selected function.

④ く C/P. 也 へ

Moves the selector down or up on the OSD. Decreases or increases the channel number.

9 OWER

Turns ON/OFF your set.

6 SPEAKERS

HEADPHONE

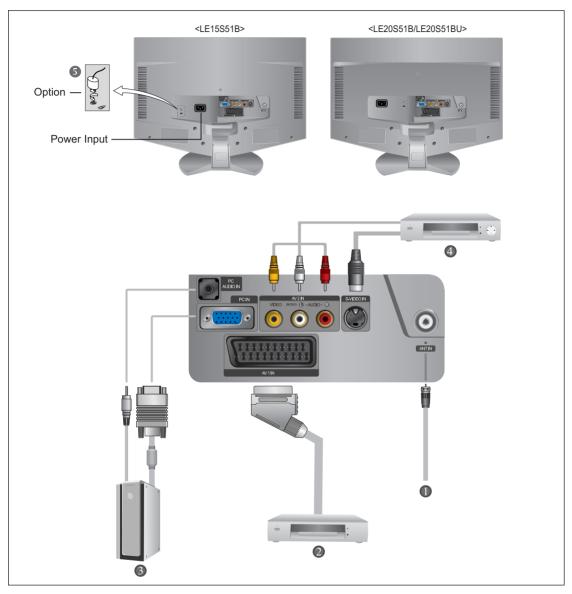
8 REMOTE CONTROL SENSOR

Aims the remote control towards this spot on the TV.

OPOWER INDICATOR

Lights up when you turn the power off. (Red light shows in stand-by mode, Red shows when you turn the power on, and light is off after the power is on. Green shows when you set Timer on or off.)

Viewing the Connection Panel



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

Viewing the Connection Panel

O Connecting an Aerial or Cable Television Network (depending on the model)

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

Connecting a Set-Top Box, VCR or DVD

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

③ Connecting a Computer

- Connect the 15 Pin D-SUB connector to the PC video connector.
- Connect the stereo audio cable to the "PC AUDIO IN" jack on the rear of your set and the other end to the "Audio Out" jack of the sound card on your computer.

> 15 Pin D-SUB connector

Pin	Separate H/V	Composite H/V
1	Red (R)	Red (R)
2	Green (G)	Green (G)
3	Blue (B)	Blue (B)
4	Grounding	Grounding
5	Grounding (DDC return)	Grounding (DDC return)
6	Grounding - Red (R)	Grounding - Red (R)
7	Grounding - Green (G)	Grounding - Green (G)
8	Grounding - Blue (B)	Grounding - Blue (B)
9	No connection	No connection
10	Grounding - Sync. / Self test	Grounding - Sync. / Self test
11	Grounding	Grounding
12	DDC - SDA (Data)	DDC - SDA (Data)
13	Horizontal Sync.	Horizontal/Vertical Sync.
14	Vertical Sync.	Not used
15	DDC - SCL (Clock)	DDC - SCL (Clock)

Viewing the Connection Panel

Connecting External A/V Devices

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

6 Kensington Slot

- This television has been designed to apply a burglarproof lock. (See page 51)

Viewing Pictures From External Sources

2



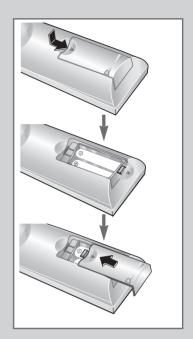
Once you have connected up your various audio and video systems, you can view the different sources by selecting the appropriate input.

- 1 Check that all the necessary connections have been made (refer to pages **6** and **7** for further details).
 - Press the TV button to choose TV mode.
 - Press the SOURCE button to choose Video mode. The input sources are displayed in the following order: AV1 - AV2 - S-Video - PC.

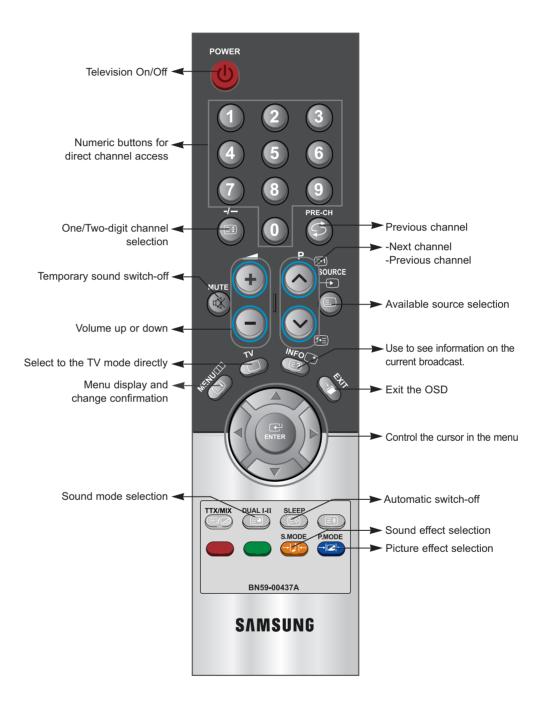
Inserting the Batteries in the Remote Control

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

- Purchase your set
- 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 Install two **AAA** size batteries.
 - + on the battery against + on the remote control
 - on the battery against on the remote control
- **3** Replace the cover by aligning it with the base of the remote control and pressing it back into place.
- Do not mix battery types, i.e. alkaline and manganese.



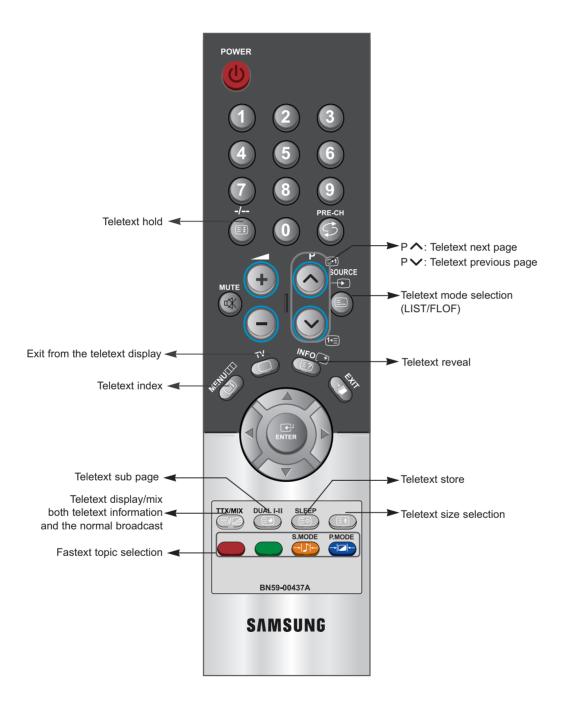
Viewing the Remote Control (All Functions Except Teletext)



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

English-10 Download from Www.Somanuals.com. All Manuals Search And Download.

Viewing the Remote Control (Teletext Functions)



Switching On and Off



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

- 1 Plug the mains lead into an appropriate socket.
 - Result: When the power cord is plugged in, the LED turns red.
- 2 Press the O POWER button to switch on.
- 3 To switch off, press the **OPOWER** button again.

Placing in Standby Mode



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

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

- 1 Press the O POWER button.
- 2 To switch back on, simply press the [⊕]**POWER** button again, a numeric button, or channel ∨ or ∧ button.
- Do not leave your set in Standby mode for long periods of time (when you are away on holiday, for example).
 Turn off by pressing the O POWER button.
 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 your set using the on-screen menu system

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

Button	Viewing Function Menu Function
P ^	Used to display the next stored channel.
P V	Used to display the
PRE-CH	Used to switch repeatedly between the last two channels displayed. (PRE-CH ; Previous Channel)
0 - 0	Used to display the corresponding channels.
-/	Used to select a channel numbered ten or over. Press this button, and the "" symbol is displayed. Enter the two-digit channel number.
+	Used to increase the volume.
	Used to decrease the volume.
MUTE ເ⊀	 Used to switch the sound off temporarily. ➤ To turn the sound back on, press this button again, or press the + or - button.
MENU	Used to display the Used to return to the previous on-screen menu system. Used to return to the previous menu or normal viewing.
EXIT → 🇊	Used to exit the menu system and return directly to normal viewing.
	▲ ▼ Used to move among the menu items.
	Used to select a menu item or increase the value of the selected item.
	 Used to return to the previous menu item or decreas the value of the selected item.



Plug & Play

Р	lug & Pla	y
	Plug & Play	
Language		
	English Français	
	Italiano	
	Deutsch	
	Español Nederlands	
Move	🛃 Enter	III Skip
	Plug & Play	
	r lug or luy	
Chec	k antenna i	nput.
	ОК	
	Enter	III Skip
	Plug & Play	
Country	<u> </u>	
	Switzerland	
L L	Sweden Jnited Kingdor	n
	astern Europe	
	Others	
Move	Enter	III Skip
	Plug & Play	
Auto Store	r lug of luy	
P1C4		40 MHz
(_	0 %
	Start	
	Enter	III Skip
	Plug & Play	
	Hour	Minute
Clock Set	Hour 	
Clock Set	Hour 	Minute
Clock Set	Hour 	
Clock Set	 Enter	
Clock Set		
Clock Set	 Enter	
Clock Set	Enter Plug & Play	
Clock Set	■ E ^J Enter Plug & Play Hour ▲ 00 ▼	Skip
	Enter Plug & Play Hour	III Skip Minute
Clock Set	■ E ^J Enter Plug & Play Hour ▲ 00 ▼	Skip

When the set is initially powered ON, you are automatically presented with a series of basic customer settings. The following settings are available.

- 1 If the set is in standby mode, press the [⊕]**POWER** button on the remote control.
 - Result: The message **Plug & Play** is displayed. It appears for a little while, and then the **Language** menu is automatically displayed.
- 2 Select the appropriate Language by pressing the \blacktriangle or \triangledown button.
 - The available languages are listed. You can choose one of **12** languages.
- 3 Press the ENTER button to confirm your choice.
 - Result: The message **"Check antenna input."** is displayed with **OK** selected.
- 4 Press the ENTER & button.

Result: The country menu is displayed: Belgium - Germany - Spain - France - Italy -Netherlands - Switzerland - Sweden - United Kingdom - Eastern Europe - Others

- 5 Select your **Country** by pressing the ▲ or ▼ button. Press the **ENTER** ↔ button.
 - Result: The Auto Store menu is displayed.
- 6 Press the ENTER I button.
 - Result: The channel search will start and end automatically.
- Press the ENTER → button.
 Select the Hour or Minute by pressing the < or
 button.
 Set the Hour or Minute by pressing the
 or
 button.

 (Refer to "Setting the Clock" on page 30)
- 8 Press the **MENU** button to confirm your setting.
 - Result: The message "Enjoy your viewing" is displayed, and then the channel which has been stored will be activated.
- 9 Press the **EXIT** button to exit.

Plug & Play

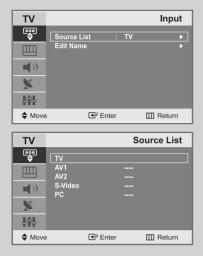
If you want to reset this feature ...

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Setup .
	Result: The options available in the Setup group are displayed.
3	Press the ENTER & button.
4	Press the ▲ or ▼ button to select the Plug & Play . Press the ENTER
	Result: The message Plug & Play is displayed.

5 For further details on how to set up this feature, refer to the previous page.

TV				Setup
000 E	Time			•
	Plug & Play Language		English	
	Blue Screen		Off	
×	PC			•
ļtļ				
Move	🗲 Ente	ər	Ш	Return
		_		
TV		_		Setup
TV	Time	i		Setup ▶
	Plug & Play		English	Setup
	Plug & Play Language	:	English	Setup
	Plug & Play		English Off	Setup
	Plug & Play Language Blue Screen))))
	Plug & Play Language Blue Screen))))

Selecting TV Mode or an Input Source



You can choose TV mode or change to an input source connected to the TV set. Use this button to choose an input source that you would like to watch.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the ENTER button to select the Input.
	Result: The options available in the Input group are displayed.
3	Press the ENTER
	Result: The Source List is selected.
4	Press the ▲ or ▼ button to move to the input source that you wish to choose. Press the ENTER
	Result: The input source changes to the one you have chosen.

Editing an Input Source Name

Entering the names of the input source devices connected to the input ports on the TV set allows you to find and choose an input source that you would like to watch in a quick and convenient manner.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the ENTER I button to select the Input.
	Result: The options available in the Input group are displayed.
3	Press the \blacktriangle or \checkmark button to select the Edit Name . Press the ENTER \boxdot button.
4	Press the ▲ or ▼ button to move to the input source that you wish to edit. Press the ENTER
	Result: The following options are available
5	Select the required device by pressing the \blacktriangle or \blacktriangledown repeatedly.
	Result: The following options are available:

 Result:
 The following options are available:

 ---- - VCR - DVD - Cable STB - HD STB

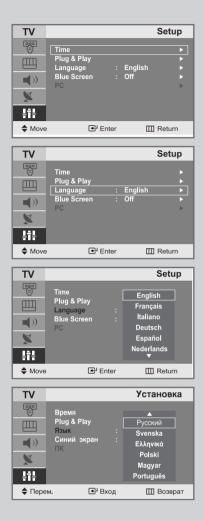
 Satellite STB - AV Receiver - DVD Receiver

 Game - Camcorder - DVD
 Combo - DHR - PC.

6 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

TV			Inp	out
ee	Source Li	st :	TV	
Ē	Edit Name	e		•
Move		🕑 Enter	III Retu	rn
TV			Inp	out
	Source Li	et ·	TV	
	Edit Name			►
914 -				
Move		🛃 Enter	III Retu	rn
-				_
TV	_	_	Edit Nar	ne
	AV1			
m				-
	AV2 S-Video		VCR	
	AV2 S-Video PC		VCR DVD Cable STB	
	S-Video		DVD Cable STB HD STB	
()	S-Video		DVD Cable STB HD STB Satellite STB	
N 1 2	S-Video		DVD Cable STB HD STB	
×	S-Video		DVD Cable STB HD STB Satellite STB AV Receiver	m
X ↓↑↑ ↓ Move	S-Video	:	DVD Cable STB HD STB Satellite STB AV Receiver T Retu	
♦ Move	S-Video	:	DVD Cable STB HD STB SateIIite STB AV Receiver ▼	
X ↓↑↑ ↓ Move	S-Video PC	Enter	DVD Cable STB HD STB Satellite STB AV Receiver The Return Edit Nar	
♦ Move	S-Video PC AV1 AV2	Enter	DVD Cable STB HD STB Satellite STB AV Receiver The Return Edit Nar DVD Receiver	
X Image: A move TV Image: A move	S-Video PC	Enter	DVD Cable STB HD STB Satellite STB AV Receiver III Retu Edit Nar Game Camcorder	
♦ Move	S-Video PC AV1 AV2 S-Video	Enter	DVD Cable STB HD STB Satellite STB AV Receiver III Retu Edit Nar Edit Nar Game Camcorder DVD Combo	
× ↓ Move TV © ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	S-Video PC AV1 AV2 S-Video	Enter	DVD Cable STB HD STB Satellite STB AV Receiver III Retu Edit Nar Game Camcorder	
X Image: A move TV Image: A move	S-Video PC AV1 AV2 S-Video	Enter	DVD Cable STB HD STB Satellite STB AV Receiver The Return Edit Nar DVD Receiver Game Camcorder DVD Combo DHR	

Choosing Your Language



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

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Setup .
	Result: The options available in the Setup group are displayed.
3	Press the ENTER G button.
4	Press the \blacktriangle or \triangledown button to select the Language. Press the ENTER \bigcirc button.
5	Select a particular Language by pressing the ▲ or ▼ button repeatedly.
6	When you are satisfied with your choice, press the EXIT button to return to normal viewing.

Storing Channels Automatically

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

1	Press the ME	NU button.
	Result: The	e main menu is displayed.
2	Press the 🔺	or ▼ button to select the Channel .
	Result: The	e options available in the Channel group are displayed.
3	Press the EN	TER Button.
4		or ▼ button to select Auto Store . TER
	<u>Result</u> : The	e Start is selected.
5		TER I button to search the channels. u is changed from Start to Stop with channel search
	Cha the higl	e search will end automatically. annels are sorted and stored in an order which reflects ir position in the frequency range, (with lowest first and hest last). The programme originally selected is then played.
		the search before it has finished, press the ENTER 🕞 to search the channels.

- **6** When the channels have been stored, you can:
 - Add or delete the channels (refer to page 22)
 - Sort them in the order required (refer to page 23)
 - Assign a name to the stored channels (refer to page 24)
- 7 Press the **EXIT** button to exit.

TV		Channel
ee 	Country : Oth Auto Store	•
	Manual Store Add/Delete Sort	* * * *
X	Name	,
999		
Move	Enter	III Return
TV		Channel
	Country : Oth	ers 🕨
	Auto Store Manual Store	••••••••••••••••••••••••••••••••••••••
	Add/Delete Sort	► ►
×	Name	
494		
Move	🗲 Enter	III Return
	Auto Store	
P 1 C		40 MHz
P 1 C	···	40 MHz 0 %
	···	
	 Start	0 %
	Start Enter Auto Store	0 %
P 1 C	Start	0 %
P 1 C	Start Ether Auto Store 3	0 %

Storing Channels Manually

TV Channel Imanual Store Imanual Store Add/Delete Imanual Store Add/Delete Imanual Store Add/Delete Imanual Store Imanual Store Imanual Store Add/Delete Imanual Store Imanual Store Imanual Store Imanuel Store Imanual Store Imanuel Store Imanual Store Imanuel Store Imanuel Store					
Auto Store Manual Store Add/Delete Sort Name Manual Store Add/Delete Sort Manual Store Add/Delete Sort Manual Store Add/Delete Sort Manual Store Add/Delete Sort Name Add/Delete Sort Name Add/Delete Sort Name Move Prog. Clour System Sound System Move Channel Store Y Move Prog. Y Move Prog. Y Manual Store Add/Delete Sound System AUTO Sound System Prog. Y Manual Store Prog. Prog. Pr				Chann	el
Add/Delete Sort Name Sort Name Add/Delete Sort Add/Delete Sort Add/Delete Sort Add/Delete Sort Add/Delete Sort Add/Delete Sort Name Name Name Add/Delete Sort Add/Delete Sort Name Name Add/Delete Sort Add/Delete Sort Add/Delete Sort Move Prog. Prog. Prog. Prog. Prog. Prog. Prog. Prog.		Country	: Othe	ers	►
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Nume G ¹ Enter III Return TV Country : Others Auto Store Add/Delete Sort > Add/Delete > Sort > Name > Move C ¹ Enter III Return TV Manual Store > Add/Delete > > Sort > > Name > > Sort Name > Sort Name > Sort Name > Sort Prog. P 1 - Colour System E BG > Sound System E G > Sound System PAL SecAM Sound System PAL SeCAM Sound System PAL SecAM Sound System PAL SecAM Search NTSC4.43 Store Store ? Move C ¹ Enter II Return TV Manual Store		Add/Delete			
Move E ^J Enter III Return TV Channel III Auto Store > Auto Store > III Manual Store > Add/Delete > > Sort Name > IIII Manual Store > Add/Delete > > Sort Name > Move E ^J Enter III Return TV Manual Store > Golour System : AUTO > Sound System : BG > Channel : C Search : 49 MHz > Store : ? Move E ^J Enter III Return TV Manual Store PAL Store : ? AUTO Sound System : PAL SecAM Store : ? AUTO Sound System :: SECAM Search :: NTSC4.43 Store : ? Move > </th <th>M</th> <th></th> <th></th> <th></th> <th>•</th>	M				•
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Auto Store > Manual Store > Add/Delete > Sort > Add/Delete > Sort > Name > Move C ¹ Enter III Return TV Manual Store © Prog. : P 1 Colour System : AUTO Sound System : BG > (Channel : C Search : 49 MHz Store : ? AUTO > Store : ? AUTO > Oclour System : P1 . . Search : PAL Channel : SECAM Search : NTSC4.43 . Store : ? Move C ² Enter III Return TV Manual Store Store : ? 				Chann	el
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	Image: Constraint of the second s	Colour System Sound System Channel Search Store Colour System Colour System Channel Search Channel Search Colour System Colour System	Ma : P 1 : A : S : NT : S : NT : S : NT : AUT :	nual Sto PAL ECAM SC4.43 III Retur NUAL Sto MHz O MHz NUAL Sto BG DK	n re re

You can store up to 100 channels, including those received via cable networks.

When storing channels manually, you can choose:

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

1	Press the	e MENU button.
	<u>Result</u> :	The main menu is displayed.
2	Press the	e ▲ or ▼ button to select the Channel .
	<u>Result</u> :	The options available in the Channel group are displayed.
3	Press the	e ENTER œ button.
4		e ▲ or ▼ button to select the Manual Store . e ENTER
	<u>Result</u> :	The options available in the Manual Store group are displayed with the Prog. selected.
5	Press the Select the	e ▲ or ▼ button to select Colour System . e ENTER ⊕ button. le Colour System required by pressing the ▲ or ▼ button lly and then press the ENTER ⊕ button.
	<u>Result</u> :	The colour standards are displayed in the following order: AUTO - PAL - SECAM - NTSC4.43
6	Press the Select th	e ▲ or ▼ button to select Sound System . e ENTER I button. le Sound System required by pressing the ▲ or ▼ button lly and then press the ENTER I button.
	<u>Result</u> :	The sound standards are displayed in the following order: BG - DK - I - L
7		e channels to move to the required channel numbers, teps 5 to 6 after selecting Prog. by pressing the button.

Storing Channels Manually

8 If you know the channel number to be stored,

- Press the ▲ or ▼ button to select the Channel.
 Press the ENTER button.
- Select C (Air channel) or S (Cable channel) by pressing the
 ▲ or ▼ button and then press the ENTER button.
- ◆ Select the required number by pressing the ▲ or ▼ button and then press the **ENTER** 🕑 button.
- If there is abnormal sound or no sound, re-select the sound system required.
- 9 If you do not know the channel numbers, press the ▲ or ▼ button to select Search.
 Press the ENTER button.
 Start the Search by pressing the ▲ or ▼ button.
 Press the ENTER button.
 - <u>Result</u>: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.
- 10 Press the ▲ or ▼ button to select **Store**. Press the **ENTER** → button. The **OK** is selected.
 - <u>Result</u>: The channel and associated programme number are stored.
- 11 Repeat Steps 8 to 10 for each channel to be stored.
- 12 Press the EXIT button to exit.

		_		-
TV			Manual Store	
000 E	Prog.			
Щ	Colour System		AUTO 🕨	
1))	Sound System		BG 🕨	
	Channel	:	С —	
×	Search		49 MHz	
상아	Store			
Move	🛃 En	ter	III Return	
TV			Manual Store	
000				

	Prog.			
Щ	Colour System		AUTO 🕨	
	Sound System		BG 🕨	
	Channel			
	Search	:	49 MHz	
494	Store			
A Move	e 🕑 Ent	er	III Return	
TV			Manual Store	

TV			Manual Stor	re
	Prog.			
Щ	Colour System		AUTO	
	Sound System		BG	
	Channel			
X	Search		49 MHz	
696	Store	:	?	
Move	🛃 Er	nter	🛄 Retur	n

Editing the Channels

TV			Cha	nnel
<u></u>	Country	:	Others	►
	Auto Store Manual Stor	·e		> > > >
	Add/Delete			
	Sort Name			•
사				
Move		Enter	III R	eturn
TV			Cha	nnel
eee	Country		Others	
Щ	Auto Store Manual Stor	·0		×
	Add/Delete	e		
	Sort Name			
	Nume			
- 1 0				
Move		Enter	Ⅲ R	eturn
	Ad	d/Delet	e	
			-	
P 1	1	Not in	Memory	
		Add	1	
	_		-	
P Chang	e E	Enter	E F	Return
P Chang				Return
P Chang		E Enter d/Delet		Return
	Ad	d/Delet	e	Return
P ·	Ad		e	Return
	Ad	d/Delet	e	Return

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

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

1	Press the MENU button. Result: The main menu is displayed.
2	Press the \blacktriangle or \checkmark button to select the Channel . <u>Result</u> : The options available in the Channel group are displayed.
3	Press the ENTER & button.
4	Press the ▲ or ▼ button to select Add/Delete . Press the ENTER
	Result: The state of the current channel is displayed.
5	Press the \land or \checkmark button to select the channel that you wish to Add or Delete .
	Result: If the channel that you wish to edit is not in memory, Add is selected and displayed. Otherwise, if the channel that you wish to edit is in memory, Delete is selected and displayed.
6	Press the ENTER I button to Add or Delete the channel.
7	Repeat Step 5 for each channel to be added or erased.
8	Press the EXIT button to exit.

Sorting the Stored Channels

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

- Modify the numeric order in which the channels have been automatically stored.
- Assign easily remembered numbers to the channels that you watch most often.
- 1 Press the **MENU** button.

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

2 Press the \blacktriangle or \blacktriangledown button to select the **Channel**.

Result: The options available in the Channel group are displayed.

- 3 Press the ENTER I button.
- 4 Press the \blacktriangle or \checkmark button to select **Sort**. Press the **ENTER** \bigcirc button.

Result:	The current Prog., Channel and Name and	re
	displayed.	

- 5 Select the channel number that you wish to change by pressing the ▲ or ▼ button repeatedly.
 Press the ENTER button.
 - <u>Result</u>: The selected **Channel** and **Name** are moved to the right side.
- 6 Press the ▲ or ▼ button to move to the position which you would like to change and then press the ENTER ⊡ button.
 - <u>Result</u>: The selected channel is exchanged with the one previously stored to the chosen number.
- 7 Repeat step 5 to 6 for another channel to sort again.

8 Press the **EXIT** button to exit.

TV				Channel
	Country Auto Store Manual St Add/Delet Sort Name	e ore	Others	5 b 5 b 6 b 7 b 7 b
Move		🗲 Enter		III Return
TV				Channel
	Country Auto Store Manual St Add/Delet Sort Name	e ore	Others	5
Move		Enter Enter		III Return
TV	Prog.	Channel	Name	Sort
	1 2 3 4 5	C12 C2 C4 C C C		
Move		🛃 Enter		III Return
TV			_	Sort
	Prog. 2 3 4 5	Channel C4 C C C	Name	∢ [C 2]
Utt ♦ Move	Ŭ	🚭 Enter	∇	III Return

Giving Channels Names

_

TV			Cł	nannel
	Country Auto Store Manual St Add/Delet Sort Name	ore	Others	> > > >
Move		🚭 Enter		Return
TV			Cł	nannel
	Country Auto Stor Manual St Add/Delet Sort Name	e tore	Others	> > > >
Move		🛃 Enter	Ш	Return
TV				Name
	Prog. 1 2 3 4 5	Channel △ C2 C4 C- C- C- C- √	Name	
Move		🛃 Enter	Ш	Return
TV				Name
	Prog. 1 2 3	Channel △ C2 C4 C–	Name	
<u>メ</u> 計		C- C ▽		

If channel name information is broadcast when you store the channels either manually or automatically, the names are assigned to the channels directly. You can however change these names or assign new names as required.

1	Press the MENU button.	
	Result: The main menu is displayed	d.
2	Press the \blacktriangle or \blacktriangledown button to select the	e Channel.
	Result: The options available in the	Channel group are displayed.
3	Press the ENTER	
4	Press the ▲ or ▼ button to select the Press the ENTER button.	e Name.
	Result: The current Prog., Channe	and Name are displayed.
5	If necessary, select the channel to be by pressing the ▲ or ▼ button. Press the ENTER ↔ button.	assigned to a new Name
	Result: The selection bar is display	ed around the name box.
6	То	Then
	Select a letter, number or symbol	Press the \blacktriangle or \blacktriangledown button
	Move on to the next letter	Press the ► button
	Move back to the previous letter	Press the ◀ button
	Confirm the name	Press the ENTER I button
	 The characters available are : Letters of the alphabet (A~Z) Numbers (0~9) Special characters (space, _) 	
7	Repeat Steps 5 to 6 for each channel new name.	I to be assigned to a
8	When you have finished entering the	name,

8 When you have finished entering the name, press the ENTER ⊡ button to confirm the name.

Changing the Picture Standard

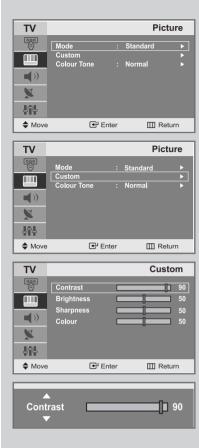
You can select the type of picture which best corresponds to your viewing requirements.

1	Press the	MENU button.
	Result:	The main menu is displayed.
2	Press the	▲ or $ imes$ button to select the Picture .
	Result:	The options available in the Picture group are displayed.
3	Press the	ENTER button.
	Result:	The Mode is selected.
4	Press the	ENTER I button.
5	repeatedly	e required picture effect by pressing the ▲ or ▼ button y. ENTER
	<u>Result</u> :	The following picture effects are available: Dynamic - Standard - Movie - Custom
6	Press the	EXIT button to exit.
	You can a	also set these options simply by pressing the

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

TV	Picture	Э
0 <u>9</u> 0 [=]	Mode : Standard	
	Custom Colour Tone : Normal	▶ ▶ ▶
×		
Jî		
Move	Enter III Return	
TV	Picture	•
000 E	Mode : Dynamic	
	Custom Standard Colour Tone : Movie	
	Colour Tone : Movie Custom	
N /		
494		
Move	Enter III Return	
•		
	TX/MIX DUAL I-II SLEEP S.MODE P.MODE	
	BN59-00437A	•
		_
	Standard	

Adjusting the Custom Picture



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

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \checkmark button to select the Picture .
	Result: The options available in the Picture group are displayed.
3	Press the ENTER I button.
4	Press the \blacktriangle or \lor button to select the Custom . Press the ENTER \bigcirc button.
5	Select the option (Contrast , Brightness , Sharpness , Colour or Tint-NTSC only) to be adjusted by pressing the ▲ or ▼button. Press the ENTER ⊕ button.
	Result: The horizontal bar is displayed.
6	Press the ◀ or ► button to reach the required setting.
7	When you are satisfied with the setting, press the MENU button to return to the previous menu or press the EXIT button to return to normal viewing.

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

Adjusting the Screen Background Colour

You can change the screen background colour according to your preference.

Press the	MENU button.
<u>Result</u> :	The main menu is displayed.
Press the	$\bullet \blacktriangle$ or \blacksquare button to select the Picture .
Result:	The options available in the Picture group are displayed.
Press the	ENTER button.
	 ▲ or ▼ button to select the Colour Tone. ENTER button.
<u>Result</u> :	The following options are available: Cool 2 - Cool 1 - Normal - Warm 1 - Warm 2
	Result: Press the Result: Press the Press the Press the

5 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

TV		Picture
	Mode :	Standard ►
	Custom Colour Tone :	Standard ► ► Normal ►
X		
414		
Move	🚭 Enter	III Return
TV		Picture
	Mode :	
	Custom Colour Tone :	► Normal ►
())		
×		
J Ŷ J		
Move	🛃 Enter	III Return
TV		Picture
	Mode : Custom	Standard
	Colour Tone :	Cool2
())		Cool1 Normal
X		Warm1 Warm2
818		
Move	🛃 Enter	III 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 MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Sound .
	Result: The options available in the Sound group are displayed.
3	Press the ENTER I button.
	Result: The Mode is selected.
4	Press the ENTER I button.
5	Select the required sound effect by pressing the ▲ or ▼ button repeatedly. Press the ENTER ⊕ button.
	Result: The following sound effects are available: Standard - Speech
6	Press the EXIT button to exit.
≻	You can also set these options simply by pressing the S.MODE (Sound Mode) button.

Selecting Auto Volume Control

Reduces the differences in volume level between broadcasters.

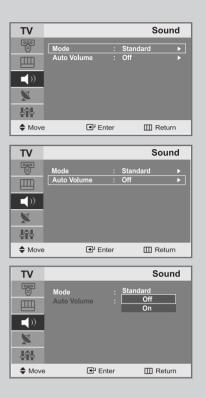
1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the \blacktriangle or \blacktriangledown button to select the **Sound**.

<u>Result</u>: The options available in the **Sound** group are displayed.

- 3 Press the ENTER 🕑 button.
- 4 Press the ▲ or ▼ button to select **Auto Volume**. Press the **ENTER** ↔ button.
- 5 Press the ▲ or ▼ button to select **Off/On**. Press the **ENTER** → button.
- 6 Press the **EXIT** button to exit.



Setting the Clock

TV			Setup
	Time		•
	Plug & Play Language	: Engli	sh ►
	Blue Screen	: Off	sh ►
ļit			
Move	E E	Inter	III Return
TV			Time
	Clock	:	
	Sleep Timer	: Off	· · · ·
	On Timer Off Timer		Off ► Off ►
♠ Move	e e	Enter	III Return
TV			Clock
000 =	Hour	Minute	
	12	00	
	🔶 Adj	ust	Return
X III ♦ Move	♦ Adj	ust	
Move		_	Time
Move	✦ Adj	ust 12 : 00 : Off	Time
Move ▼ Move	Clock Sleep Timer On Timer	12 : 00	Time
Move	Clock Sleep Timer	12 : 00	Time
Move ▼ Move	Clock Sleep Timer On Timer	12 : 00	Time
Move ▼ Move	Clock Sleep Timer On Timer	12 : 00 : Off	Time

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select Setup .
	Result: The options available in the Setup group are displayed.
3	Press the ENTER G button.
4	Press the ENTER I button.
	Result: The Clock is selected.
5	Press the ENTER ↔ button. Press the ▲ or ▼ button to set the Hour .
6	Press the ◀ or ► button to move to Minute . Press the ▲ or ▼ button to set the minutes.
7	Press the ENTER I button.
	Result: The clock is set.
8	Press the EXIT button to exit.
\succ	You can also set the time using the numeric buttons on the remote.

Switching Off Automatically

You can select a time period of between Off and 180 minutes after which your set automatically switches off.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the \blacktriangle or \blacktriangledown button to select **Setup**.

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

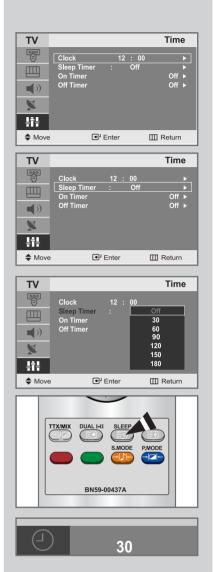
- 3 Press the ENTER I button.
- 4 Press the ENTER I button.

Result: The preset Clock is selected.

- 6 Select the number of minutes after which your set switches **On** by pressing the ▲ or ▼ button repeatedly.
 - Result: The preset time intervals: Off, 30, 60, 90, 120, 150, 180 minutes.
- 7 Press the **EXIT** button to exit.
- > You can also select this feature by simply pressing the "SLEEP" button.

If the sleep timer is already set, the screen displays the remaining time and then your set will be switched **Off**.

- If the sleep timer is not yet set, **Off** is displayed.
- ◆ Off 30 60 90 120 150 180



Switching the Television On and Off Automatically

TV		Setup
	Time	►
	Plug & Play Language : Engli Blue Screen : Off	ish ►
	Blue Screen : Off PC	ish ►
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Move	E Enter	III Return
TV		Time
ee	Clock 12 : 00)
	Sleep Timer : Off On Timer Off Timer	► Off ►
	Off Timer	Off ► Off ►
414		
Move	🚭 Enter	III Return
TV		Time
	Clock 12 : 00 Sleep Timer : Off	•
	On Timer	► Off ►
	Off Timer	Off ►
X		
łił		
Move	🛃 Enter	III Return
TV		On Timer
	Hour Minute	On Timer
	Hour Minute	On Timer
	▲ 00 00 ▼	
		On Timer Setup Off
	00 00 Channel Volume	Setup
	00 00 Channel Volume	Setup
Image: Constraint of the second se	00 00 Channel Volume 1 10	Setup Off
©	00 00 Channel Volume 1 10 ♦ Adjust	Setup Off I Return
₩ ₩ ₩ Move	00 00 Channel Volume 1 10 ♦ Adjust	Setup Off I Return Time
Image: Second	00 00 Channel Volume 1 10 ♦ Adjust Clock 12 : 00 Sleep Timer : Off On Timer	Setup Off III Return Time
₩ ₩ ₩ Move	00 00 Channel Volume 1 10 ♦ Adjust Clock 12 : 00 Sleep Timer : Off	Setup Off I Return Time
Image: Second secon	00 00 Channel Volume 1 10 ♦ Adjust Clock 12 : 00 Sleep Timer : Off On Timer	Setup Off III Return Time
Image: Second secon	00 00 00 00 00 00 00 00 00 00	Setup Off III Return Time
Image: Second secon	00 00 Channel Volume 1 10 ♦ Adjust Clock 12 : 00 Sleep Timer : Off On Timer	Setup Off III Return Time
Image: Second secon	00 00 00 00 00 00 00 00 00 00	Setup Off Return Time Off ► Off ►
Image: Second secon	00 00 Channel Volume 1 10 ♦ Adjust Clock 12 : 00 Sleep Timer : Off On Timer Off Timer	Setup Off Time Off > Off > Off >
Image: Second secon	00 Channel Volume 1 10 Adjust Clock 12 : 00 Sleep Timer Off Timer Off Timer Off Timer	Setup Off Crime Off Off Off Off Off Setup
Image: Second secon	00 00 Channel Volume 1 10 ♦ Adjust Clock 12 : 00 Sleep Timer : Off On Timer Off Timer	Setup Off Time Off > Off > Off >
Image: Second secon	00 Channel Volume 1 10 Adjust Clock 12 : 00 Sleep Timer Off Timer Off Timer Off Timer	Setup Off Crime Off Off Off Off Off Setup
Image: Second secon	00 Channel Volume 1 10 Adjust Clock 12 : 00 Sleep Timer Off Timer Off Timer Off Timer	Setup Off Crime Off Off Off Off Off Setup
Image: Second secon		Setup Off III Return Off I Off I IIII Return
Image: Second secon		Setup Off Image: Control of the setup Off the setup Setup

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

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

1	Press the MENU button.	
	Result: The main menu is displayed.	
2	Press the ▲ or ▼ button to select Setup .	
	Result: The options available in the Setup group are displayed.	
3	Press the ENTER I button.	
4	Press the ENTER I button.	
	Result: The Time menu are displayed with Clock selected.	
5	Press the \blacktriangle or \lor button to select the On Timer . Press the ENTER \bigcirc button.	
	Result: The On Timer menu is displayed.	
	To Press the	
	Move to Hour, Minute, Channel and Volume ◀ or ► button	
	Set Hour, Minute, Channel and ▲ or ▼ button Volume level	
	Move to Setup	
	Select On to enable above setting ▲ or ▼ button	
6	Press the MENU button to return to the previous menu and to set Off Timer continuously. Press the \blacktriangle or \checkmark button to select Off Timer .	
	In the same way, set the time at which you wish the set to be switched off automatically.	
7	Press the EXIT button to exit.	

Setting the Blue Screen Mode

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

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select Setup .
	Result: The options available in the Setup group are displayed.
3	Press the ENTER I button.
4	Press the ▲ or ▼ button to select Blue Screen . Press the ENTER ↔ button.
5	Select the required option (On or Off) by pressing the ▲ or ▼ button.

6 Press the **EXIT** button to return to normal viewing.



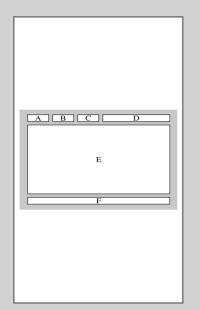
Displaying Information

You can view the setting status of the selected source by pressing the "INFO" button on the remote control. The information displayed varies according to the selected source.





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 indicators.
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 coloured heading (FASTEXT system)

Displaying the Teletext Information

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

- For Teletext information to be displayed correctly, channel reception must be stable; otherwise:
 - Information may be missing
 - Some pages may not be displayed
- 1 Select the channel providing the Teletext service using the ∧ or ∨ button.
- 2 Press the **TTX/MIX** button to activate the teletext mode.

Result: The contents page is displayed. It can be redisplayed at any time by pressing the (i) (index) button.

- 3 If you wish to display the actual broadcast at the same time as the teletext page, press the **TTX/MIX** button again.
- 4 Press the **TV**(**)** button again to exit the teletext display.



Selecting a Page by Number



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.
 - <u>Result</u>: 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 E (hold) button.
 Press the E (hold) button again to resume.

Using the various display options:

To display	Press the
 Hidden text (answers to quiz games, for example) 	E? (reveal)
◆ The normal screen	E? (reveal) again
 A secondary page, by entering its 4-digit number 	(subpage)
♦ The next page	
 The previous page 	📧 (page down)
 Double-size letters in the: Upper half of the screen Lower half of the screen 	E€ (size) • Once • Twice
 Normal screen 	Three times

Using FLOF to Select a Page

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

1	Display the teletext contents page by pressing the TTX/MIX button.
2	Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.
	Result: The page is displayed with other coloured information that can be selected in the same way.
3	To display the previous or next page, press the corresponding coloured button.
4	To display the subpage, see the following steps.

Press the (subpage) button.

<u>Result</u>: The available subpages appear.

Select the required subpage.
 Subpages can be scrolled by using the E or D button.

Storing Teletext Pages

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

1 Select the LIST mode using the E. (LIST/FLOF) button.

<u>Result</u>: Four 3-digit numbers are displayed in different colours.

The E (LIST/FLOF) button is used to switch between the LIST and FLOF modes.

- **2** Press the coloured button corresponding to the page that will be replaced.
- 3 Enter the new page number using the numeric buttons.
- 4 Repeat steps **2** and **3** for each page to be stored, using a different coloured button each time.
- **5** Press the 🖾 (store) button until the corresponding blocks blink.





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Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1 First, click on "**Control Panel**" on the Windows start menu.

2 When the control panel window appears, click on "Appearance and Themes" and a display dialog-box will appear.

3 When the control panel window appears, click on "Display" and a display dialog-box will appear.

4 Navigate to the "**Settings**" tab on the display dialog-box.

The correct size setting (resolution)

- refer to page 47, 49

If a vertical-frequency option exists on your display settings dialog box, the correct value is "**60**" or "**60 Hz**". Otherwise, just click "**OK**" and exit the dialog box.









Coarse and Fine Tuning of the Image

Preset to PC mode by pressing the SOURCE button on the remote control.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select Setup .
	<u>Result</u> : The options available in the Setup group are displayed.
3	Press the ENTER I button.
4	Press the \blacktriangle or \lor button to select PC . Press the ENTER \bigcirc button.
	Result: The options available in the PC menu are displayed.
5	Press the ENTER I button.
	Result: The Image Lock menu is selected.
6	Press the ▲ or ▼ button to select Coarse or Fine . Press the ENTER ^G button.
	Result: The horizontal bar is displayed.
7	Press the ◀ or ► button to adjust the screen quality. Vertical stripes may appear or the picture may become blurry.

8 When you are satisfied with the settings, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

PC		Setup
	Time	
Щ	Plug & Play	•
	Blue Screen :	English ► Off ►
	PC	
Move	🗲 Enter	III Return
		.
PC		Setup
	Time Plug & Play	×
	Language :	English 🕨
	Blue Screen : PC	Off ►
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Move	🚭 Enter	III Return
PC		PC
	Image Lock Position	►
	Image Reset Auto adjustment	
	Auto adjustment	
X		
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Move	🚭 Enter	III Return
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ee E	Coarse	50
	Fine 🗖	50
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- <u>1</u> 11		
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Coar	rse 📃	50
Fin		50

Changing the Image Position

PC			Setup
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	Plug & Play		• •
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PC			Setup
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PC			PC
	Image Lock		PC
	Position Image Reset		PC
	Position		PC
	Position Image Reset		PC
	Position Image Reset		PC
	Position Image Reset		PC
Image: Second	Position Image Reset Auto adjustment		Return
Image: Second secon	Position Image Reset Auto adjustment		> > >
Image: Second	Position Image Reset Auto adjustment		Return
Image: Second secon	Position Image Reset Auto adjustment		Return
Image: Second secon	Position Image Reset Auto adjustment C ²¹ Enter		Return
Image: Second	Position Image Reset Auto adjustment		Return
Image: Second	Position Image Reset Auto adjustment C ²¹ Enter		Return
Image: Second	Position Image Reset Auto adjustment	Po	Return

Preset to PC mode by pressing the SOURCE button on the remote control.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select Setup .
	Result: The options available in the Setup group are displayed.
3	Press the ENTER I button.
4	Press the \blacktriangle or \lor button to select PC . Press the ENTER \bigcirc button.
	Result: The options available in the PC menu are displayed.
5	Press the \blacktriangle or \lor button to select Position . Press the ENTER \bigcirc button.
	Result: You can adjust the image Position .
6	Press the ▲ or ▼ button to adjust the vertical position. Press the ◀ or ► button to adjust the horizontal position.
7	Press the MENU button to return to the previous menu or press the EXIT button to return to normal viewing.

Initializing the Image Settings

Preset to PC mode by pressing the SOURCE button on the remote control.

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

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select Setup .
	Result: The options available in the Setup group are displayed.
3	Press the ENTER I button.
4	Press the \blacktriangle or \lor button to select PC . Press the ENTER \bigcirc button.
	Result: The options available in the PC menu are displayed.
5	Press the ▲ or ▼ button to select Image Reset . Press the ENTER
	Result: The message "Image Reset has completed." is displayed.

6 Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

PC			Setup
	Time		▶
	Plug & Play Language :	English	► ►
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PC			Setup
990 E	Time		•
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N 2	PC		
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Move	🗲 Enter	Ш	Return
-			
PC		_	PC
	Image Lock		
Ш	Position Image Reset		•
	Auto adjustment		• • •
X			
ļ†ļ			
Move	🛃 Enter		Return

Image Reset has completed.

Adjusting the PC Screen Automatically

PC		Setup
	Time Plug & Play Language : Blue Screen : PC	English > Off >
Move	🗲 Enter	III Return
PC		Setup
	Time Plug & Play Language : Blue Screen : PC	
Move	🗲 Enter	III Return
PC		PC
	Image Lock Position Image Reset Auto adjustment	> > >
Move	🛃 Enter	III Return

Auto adjustment

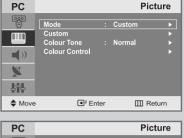
Preset to PC mode by pressing the SOURCE button on the remote control.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select Setup .
	Result: The options available in the Setup group are displayed.
3	Press the ENTER œ button.
4	Press the \blacktriangle or \blacktriangledown button to select PC . Press the ENTER \bigcirc button.
	Result: The options available in the PC menu are displayed.
5	Press the ▲ or ▼ button to select Auto adjustment . Press the ENTER [•] button.
	Result: The screen quality and position are automatically adjusted, and the screen returns to the original view a few seconds later.
6	Press the MENU button to return to the previous menu or press the EXIT button to return to normal viewing.

Picture Mode

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

1	Press the MENU button.	
	Result: The main menu is displayed.	
2	Press the \blacktriangle or \blacktriangledown button to select the Picture .	
	Result: The options available in the Picture group are displayed.	
3	Press the ENTER	
	Result: The Mode is selected.	
4	Press the ENTER I button.	
5	Select the required picture effect by pressing the ▲ or ▼ button repeatedly. Press the ENTER	
	Result: The following picture effects are available: Entertain - Internet - Text - Custom	
6	Press the EXIT button to exit.	





Adjusting the Custom Picture

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

1 Press the **MENU** button.

Result: The main menu is displayed.

- Press the ▲ or ▼ button to select the Picture.
 <u>Result</u>: The options available in the Picture group are displayed.
- 3 Press the ENTER button.
- 4 Press the ▲ or ▼ button to select the **Custom**. Press the **ENTER** ↔ button.
- 5 Select the option (Contrast, Brightness) to be adjusted by pressing the ▲ or ▼ button. Press the ENTER button.

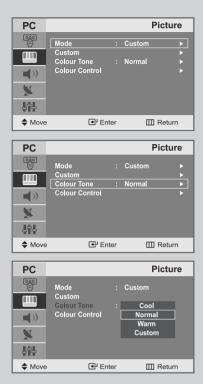
Result: The horizontal bar is displayed.

- 6 Press the ◀ or ► button to reach the required setting.
- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

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

PC		Picture
	Mode : Custom Colour Tone : Colour Control	Custom
X \$†\$ ♦ Move	Enter	III Return
PC		Picture
	Mode : Custom Colour Tone : Colour Control	Custom ► Normal ►
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• 10000		III Notaini
PC		Custom
	Contrast Brightness	[] 90] 50
Move	🕑 Enter	III Return
Contrast] 90 ▼		

Adjusting the Screen Background Colour



You can change the screen background colour according to your preference.

1	Press the MENU button. Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Picture .Result:The options available in the Picture group are displayed.
3	Press the ENTER I button.
4	Press the \blacktriangle or \checkmark button to select the Colour Tone . Press the ENTER \bigcirc button.
	Result: The following options are available: Cool - Normal - Warm - Custom
5	When you are satisfied with your choice, press the EXIT button to return to normal viewing.

Customizing the Colour

- 1 Press the **MENU** button. Result: The main menu is displayed. 2 Press the \blacktriangle or \triangledown button to select the **Picture**. Result: The options available in the **Picture** group are displayed. 3 Press the ENTER & button. 4 Press the \blacktriangle or \blacktriangledown button to select the **Colour Control**. Press the ENTER I button. 5 Select the option (Red, Green, Blue) to be adjusted by pressing the \blacktriangle or \checkmark button. Press the ENTER & button. Result: The horizontal bar is displayed. 6 Press the \triangleleft or \blacktriangleright button to reach the required setting.
- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

PC		_	P	icture
L C C C C C C C C C C C C C C C C C C C	_			lotare
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	Custom Colour Tone		Normal	> > >
	Colour Control			
X				
-				
Move	E E	nter		Return
PC			Pi	cture
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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 your set and contact your local dealer.

No sound or picture.	 Check that the mains lead has been connected to a wall socket. Check that you have pressed the OPOWER button. Check the picture contrast and brightness settings. Check the volume.
Normal picture but no sound.	 Check the volume. Check whether the MUTE K button has been pressed on the remote control.
No picture or black and white picture.	 Adjust the colour settings. Check that the broadcast system selected is correct.
Sound and picture interference.	 Try to identify the electrical appliance that is affecting the set and move it further away. Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound.	 Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions.	 Replace the remote control batteries. Clean the upper edge of the remote control (transmission window). Check the battery terminals.
"Check signal cable" message is displayed.	 Check that the signal cable is firmly connected to the PC. Check that the PC is turned on.
In PC mode, "Mode Not Supported" message is displayed.	 Check the maximum resolution and the frequency of the video adapter. Compare these values with the data in the Display Modes. (refer to page 49)
In PC mode, horizontal or vertical bars appear to flicker, jitter or shimmer on the image.	 Adjust the Coarse or Fine function. (refer to page 39)
In PC mode, the screen is black and the power indicator light is steady amber or blinks every 0.5 or 1 seconds.	 The TV is using its power management system. Move the computer's mouse or press any key on the keyboard.

Troubleshooting: Before Contacting Service Personnel

In PC mode, the image is not stable and may appear to vibrate.

- Check that the display resolution and frequency from your computer or video board is an available mode for your set. On your computer check: Control Panel, Display, Settings.
- If the setting is not correct, use your computer utility programme to change the display settings.

Your set supports multiscan display functions within the following frequency domain:

	15"(LE15S51B) 20"(LE20S51B)		20"(LE20S51BU)
Horizontal frequency(kHz)	30~69	28~33 28	
Vertical frequency(Hz)	50~75	50~70	50~75
Maximum refresh rate (at 75Hz)	1024x768	640x480	800x600

In PC mode, the image is not centred on the screen.

• Adjust the horizontal and vertical position.

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm(one millionth) above is used for this product. This is not from bad quality and you can use it without uneasiness. For example, the number of TFT LCD sub pixels: LE15S51B - 2,359,296, LE20S51B - 921,600, LE20S51BU - 1,440,000

Power Saver

This set has a built-in power management system called PowerSaver. This system saves energy by switching your set into a low-power mode when it has not been used for a certain period of time. The available modes are "On", "Standby", "Sleep", and "Deep Sleep". PowerSaver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power-Saving Function mode (EPA/NUTEK)		
Horizontal Sync	Active	Inactive		
Vertical Sync	Active	Inactive		
Power Indicator	Off	Red, Blinking (1 sec interval)		
Power Consumption	15" 40W, 20" 50W	Less than 3W		

This set automatically returns to normal operation when horizontal and vertical sync are restored.

This occurs when you move the computer's mouse or press any key on the keyboard.

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English-47

Technical and Environmental Specifications

Model Name	LE15S51B	LE15S51B LE20S51B		
Panel Size	331.6(H) x 254.9(V)mm 13.05(H) x 10.03(V)inch	413.0(H) x 311.0(V)mm 16.25(H) x 12.24(V)inch	413.0(H) x 311.0(V)mi 16.25(H) x 12.24(V)inc	
Display Size	304.1(H) x 228.1(V)mm 11.97(H) x 8.98(V)inch	408.0(H) x 306.0(V)mm 16.06(H) x 12.05(V)inch	408.0(H) x 306.0(V)m 16.06(H) x 12.05(V)ind	
Type Pixel Pitch Viewing Angle	a-si TFT active matrix 0.297(H) x 0.297(V)mm 140/115	a-si TFT active matrix 0.6375(H) x 0.6375(V)mm 160/150	a-si TFT active matrix 0.51(H) x 0.51(V)mm 160/120	
Frequency Horizontal Vertical Display Color	30 ~ 69kHz 50 ~ 75Hz 16.2 Million	28 ~ 33kHz 50 ~ 70Hz 16.7 Million	28 ~ 47kHz 50 ~ 75Hz 16.7 Million	
Resolution Optimum Maximum	1024 x 768@60Hz 1024 x 768@75Hz	640 x 480@60Hz 640 x 480@70Hz	800 x 600@60Hz 800 x 600@75Hz	
Input Signal Sync. Video Signal	H/V Separate, TTL, P or N 0.7 Vp-p @75 Ω			
Video Color System Video System	PAL / NTSC / SECAM CVBS, S-VHS, RGB			
Power Supply Input	AC 220V ~ 240V (50 / 60Hz)			
Power Consumption Normal Power Saving	40W <3W	50W <3W	50W <3W	
Dimension (W x D x H) TV Body With stand	496.0 x 82.0 x 333.0 mm (19.52 x 3.22 x 13.11 inch) 496.0 x 170.0 x 359.0 mm (19.52 x 6.69 x 14.13 inch)	607.0 x 94.0 x 436.0 mm (23.89 x 3.70 x 17.16 inch) 607.0 x 215.0 x 464.0 mm (23.89 x 8.46 x 18.26 inch)	607.0 x 94.0 x 436.0 m (23.89 x 3.70 x 17.16 in 607.0 x 215.0 x 464.0 n (23.89 x 8.46 x 18.26 in	
Weight With stand	4.0 kg (8.81 lbs)	7.8 kg (17.19 lbs)	7.8 kg (17.19 lbs)	
Environmental Considerations Operationg Temperature Operating Humidity Storage Temperature Storage Humidity	10°C ~ 40°C (50°F ~ 104°F) 10% to 80%, non-condensing -20°C ~ 45°C (-4°F ~ 113°F) 5% ~ 95%, non-condensing			
Audio Characteristics Audio Input PC Audio Input Audio Output Headphone Output Frequency Response	RCA Jack (L, R), 0.5Vrms(-9dB) 3.5ø Stereo Jack, 0.5Vrms(-9dB) 2.5W x 2 Max.10mW Output(3,5ø Stereo Jack 32) RF : 80Hz ~15kHz at -3dB A/V : 80Hz ~20kHz at -3dB			

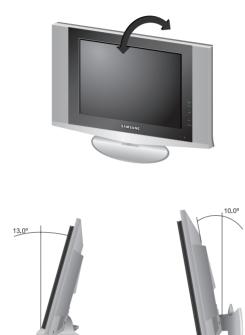
If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your Videocard user guide; otherwise there may be no video. For the display modes listed below, the screen image has been optimized during manufacture.

Mode(PC)		Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
VGA	LE15S51B LE20S51B	720X400	31.469	70.087	28.322	_ / +
	LE20S51BU	640X480	31.469	59.940	25.175	- / -
	LE15S51B LE20S51BU	640X480	37.500	75.000	31.500	_ / _
SVGA	LE15S51B LE20S51BU	800X600	46.875	75.000	49.500	+ / +
		800X600	37.879	60.317	40.000	+ / +
XGA	LE15S51B	1024X768	48.363	60.004	65.000	_ / _
		1024X768	60.023	75.029	78.750	+ / +

Retractable Stand

Note: The maximum tilt angle is 13 degrees in the backward direction.

Please do not tilt the TV outside the specified range. Using excessive force to tilt the TV may cause permanent damage to the mechanical part of the stand.

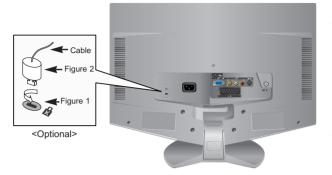


Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world.

A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

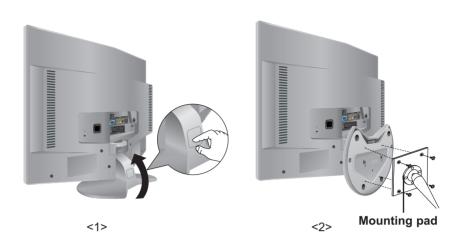
Using the Anti-Theft Kensington Lock



The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.

- **1.** Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
- **2.** Connect the Kensington lock cable.
- **3.** Fix the Kensington lock to a desk or a heavy stationary object.

Installing VESA compliant mounting devices



<1> Fold the stand pressing the button on the back of the stand.

<2> Align the mounting interface pad with the holes in the stand bottom and secure it with the four screws that come with the arm-type base, wall mount hanger or other bases.

Installing the Wall Mount Kit

Note : This installation is to be used when attaching the wall mount to a concrete wall. When attaching to other building materials, please contact your nearest dealer.

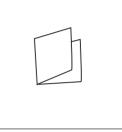
Components

Please use provided components or parts to install the Wall Mount Kit.









Bracket

Anchors : 3EA

Screws : 3EA

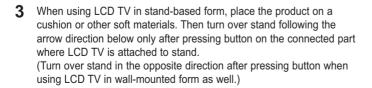
Installation Guide

How to assemble the Wall Mount Kit

- 1 **1** Mark the location of hole on the wall using installation guide.
 - Make over 35mm- depth- hole on the marked location using 5.0-diameter drill.
 - **3** Fix anchors on each hole on the wall.
 - Connect bracket to the wall with screws after fitting anchors into the bracket holes.

Note : If the bracket is not firmly fixed to the wall, LCD TV can fall off.

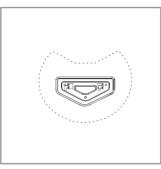
2 You may use LCD TV right after fixing it to the wall since stand is wrapped already turned over as shown in the picture below.





Installing the Wall Mount Kit

4 Adjust LCD TV to the hook on the bracket and move in the direction of the arrow(Left) so that LCD TV can be completely fixed to the bracket.







When bracket is assembled on the wall

How to hang LCD TV up on a hook

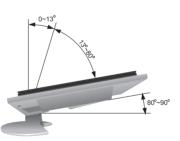


- 5 Remove Installation Guide after completing setup of monitor on the wall.
- 6 Push the LCD TV up and shift to the right to detach it from bracket. When moving or transferring to other areas, reverse No. 4 procedure so as to disconnect LCD TV with ease.

Solution How to adjust an angle

- Angle adjustment section of general stand-based LCD TV
- (2) Angle abjustment section while converting the form (1->3, 3->1)
- (3) Angle adjustment section of wall-mounted LCD TV





- 10,0°
- Picture(1) shows the adjustment angle(0°~ 13°)when you use LCD TV in its general form(stand-based LCD TV). Excessive tilting can turn LCD TV over which might cause damage to LCD TV.
- 2 Picture(2) shows the adjustment angle(13°~ 80°)when you convert stand-based LCD TV into wall-mounted one.
- B Picture(3) shows the adjustment angle(0°~ 10°) when you use wall-mounted LCD TV after fixing it to wall.
 - Note : Picture (2) shows the angle adjustment section while LCD TV is being converted from stand-based one to wall-mounted one or vice versa.
 - Click" sound indicates section change from 1 to 2 or 3 to 2(1->2, 3->2).

- 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.





Correct Disposal of This Product (Waste Electrical & Electronic Equipment) (Applicable in the European Union and other European

countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other

household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

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