
Installation

Power

This set operates on an AC mains supply, the voltage is as indicated on the label on the back cover. Never apply DC power to the set. In the event of thunderstorms or powercuts, please pull out the aerial and mains plugs.

Warning

To prevent fire or shock hazard, do not expose the set to rain or moisture.

Service

Never remove the back cover of the set as this can expose you to very high voltage and other hazards. If the set does not operate properly, unplug it and call your dealer.

Aerial

Connect the aerial cable to the socket marked 75Ω on the back cover. For the best reception an outdoor aerial should be used.

Location

Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on the back cover.

Battery installation

The remote control handset is powered by two AA type batteries. Gently pull down the cover of the remote control handset until the battery compartment is exposed. Install two batteries as indicated by the polarity symbols (⊕) and (⊖) marked inside the compartment.



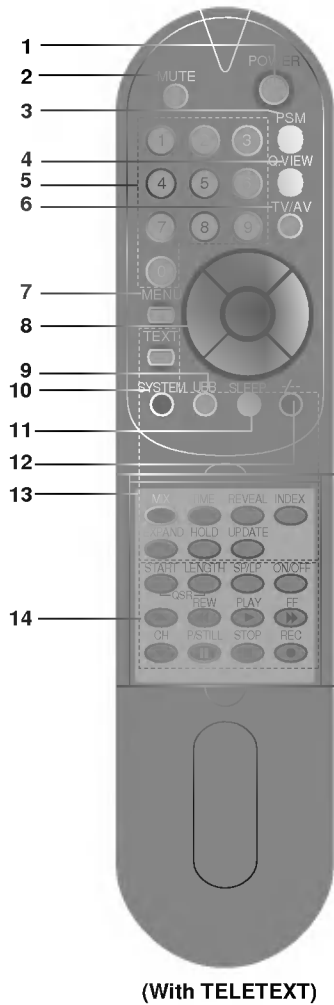
Note : To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.

Location and function of controls

Remote control handset

All the functions can be controlled with the remote control handset. Some functions can also be adjusted with the buttons on the front panel of the set.

Before you use the remote control handset, please install the batteries.



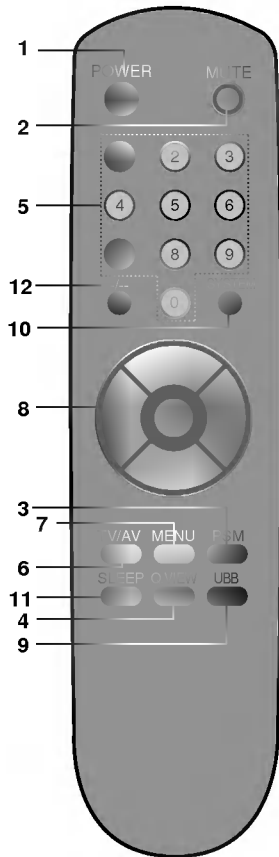
- 1. POWER**
switches the set on from standby or off to standby.
 - 2. MUTE**
switches the sound on or off.
 - 3. PSM (Picture Status Memory)**
recalls your preferred picture setting.
 - 4. QUICK VIEW**
returns to the previously viewed programme.
 - 5. NUMBER BUTTONS**
switch the set on from standby or directly select a number.
 - 6. TV/AV**
selects TV or AV mode.
 - 7. MENU**
selects a menu.
 - 8. \uparrow / \downarrow (Programme Up/Down)**
switches the set on from standby.
selects a programme or a menu item.

 \leftarrow / \rightarrow (Volume Down/Up)
adjusts the volume.
adjusts menu settings.

OK
accepts your selection or displays the current mode.
 - 9. UBB (option)**
switches the UBB sound on or off.
 - 10. SYSTEM**
displays the system selection mode.
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Location and function of controls

Remote control handset

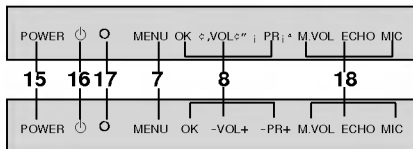


(Without TELETEXT)

- 11. SLEEP**
sets the sleep timer.
- 12. UNIT**
selects single or double digit.
- 13. TELETEXT BUTTONS (option)**
These buttons are used for teletext.
For further details, see the 'Teletext' section.
- 14. VCR BUTTONS (option)**
control the video cassette recorder of our brand.
- 15. MAIN POWER (Ⓚ)**
switches the set on or off.
- 16. STANDBY INDICATOR**
illuminates red when the set is in standby mode.
flashes when a button on the remote control handset is pressed.
- 17. REMOTE CONTROL SENSOR**
- 18. KARAOKE (option)**
These controls are used for karaoke function.
See the 'Karaoke' section.

Front panel

Shown is a simplified representation of front panel. Here shown may be somewhat different from your set.



Basic operation

On and off

1. Press the main power button to switch the set on.
2. If the set is in standby mode, press the **POWER**, $\bar{\cdot}^{\text{a}}/\bar{\cdot}$, **TV/AV** or **NUMBER** buttons on the remote control handset to switch it on fully.
3. Press the **POWER** button on the remote control handset. The set reverts to standby mode.
4. Press the main power button again to switch the set off.

Note : If, while the set is switched on, the mains plug is disconnected the set will switch to standby when the mains plug is replaced in the mains power socket.

Programme selection

You can select a programme number with the $\bar{\cdot}^{\text{a}}/\bar{\cdot}$ or **NUMBER** buttons.

Before entering double digit programme numbers, press the **-/-** button until the display **--** appears on the screen.

Volume adjustment

Press the $\diamond,/\diamond$ button to adjust the volume.

Mute function

Press the **MUTE** button. The sound is switched off and the display \times appears. You can cancel it by pressing the **MUTE** or $\diamond,/\diamond$ button.

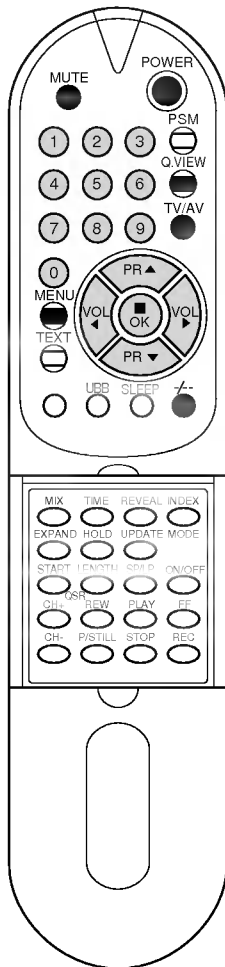
Quick view

Press the **Q.VIEW** button to view the last programme you were watching.

On screen language selection (option)

This is an optional function. In the models which have on screen language function, the menu can be displayed on the screen in the desired language. First select your language.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the $\bar{\cdot}^{\text{a}}/\bar{\cdot}$ button to select **LANGUAGE**.
3. Press the **OK** button to display the sub menu.
4. Press the $\bar{\cdot}^{\text{a}}/\bar{\cdot}$ button to select the desired language. All the on screen displays will appear in the selected language.
5. Press the **MENU** button repeatedly or **TV/AV** button once to return to normal TV viewing.



On screen menus

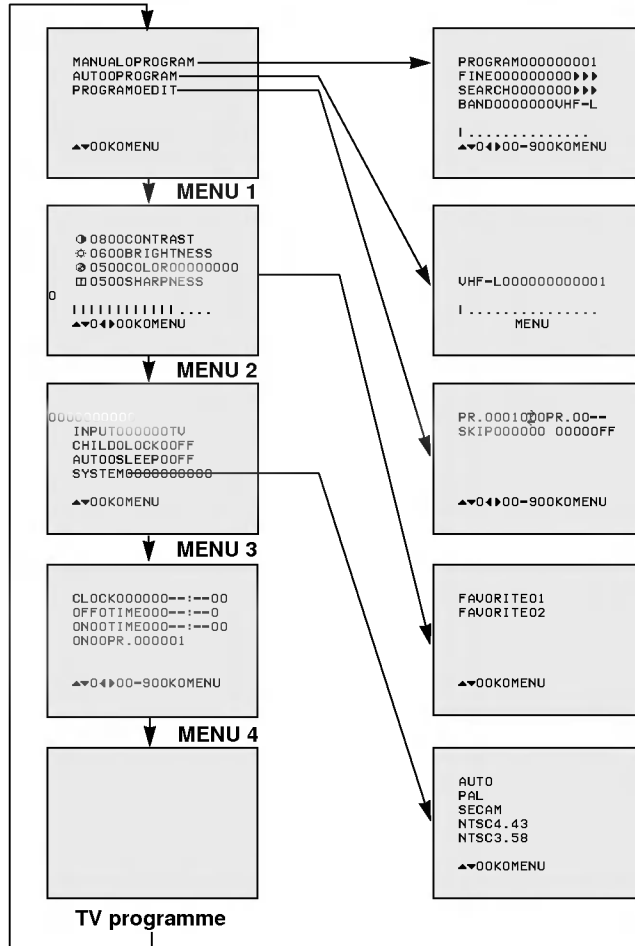
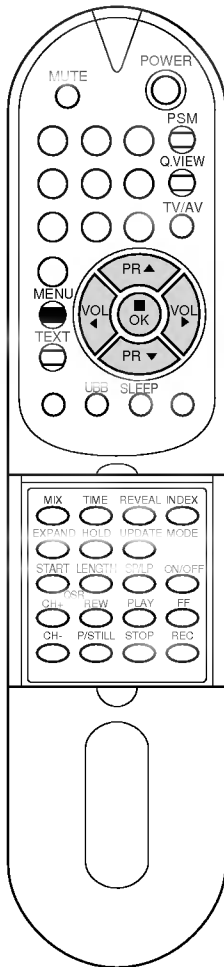
The dialogue between you and your set takes place on screen with an operator menu. The buttons required for the operating steps are also displayed.

Menu selection

1. Repeatedly press the **MENU** button to display each menu.
2. Press the \leftarrow/\rightarrow button to select a menu item.
3. Press the \leftarrow/\rightarrow button to change the setting of a menu item or **OK** button to display the sub menu.

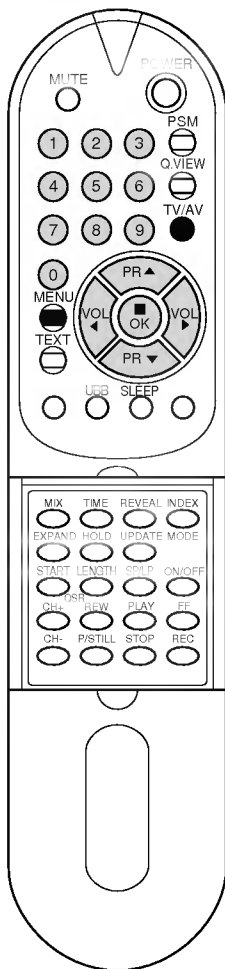
Note :

- a. The menus automatically disappear in about 12 seconds if you do not press a button.
- b. In the AV mode, MENU 1 is not displayed.
- c. In the teletext mode, MENUs are not displayed.
- d. In some models, the menu item **LANGUAGE** is also displayed on the screen in MENU 3.
- e. In some models, the menu item **TETRIS** is also displayed on the screen in MENU 3.



Setting up TV stations

MENU 1



Up to 80 or 100 TV stations can be stored in this set by programme numbers (0 to 79 or 99). Once you have preset the stations, you will be able to use the \uparrow/\downarrow or NUMBER buttons to scan the stations you programmed. Stations can be tuned using an automatic or a manual mode.

Auto programme tuning

All stations that can be received are stored by this method. It is recommended that you use auto programme during installation of this set.

1. Press the **MENU** button to select MENU 1.
2. Press the \uparrow/\downarrow button to select **AUTO PROGRAM**.
3. Press the **OK** button to begin auto programming.

The band automatically changes

VHF-L \rightarrow **VHF-H** \rightarrow **UHF**.

When auto programming is completed, the station stored into programme number 1 will appear on the screen.

To stop auto programming, press the **MENU** button. The active station at that time will be displayed.

*Note : Some undesired stations may be stored, such as noisy or unclear signals from distant transmitters. You can easily skip these stations by entering **PROGRAM EDIT** mode.*

Manual programme tuning

Manual programme lets you manually tune and arrange the stations in whatever order you desire.

1. Press the **MENU** button to select MENU 1.
2. Press the \uparrow/\downarrow button to select **MANUAL PROGRAM**.
3. Press the **OK** button to display the **MANUAL PROGRAM** mode.



4. Press the \uparrow/\downarrow button to select **PROGRAM**. Select the desired programme number with the \leftarrow/\rightarrow or NUMBER buttons.
5. Press the \uparrow/\downarrow button to select **BAND**. Press the \leftarrow/\rightarrow button to select **VHF-L**, **VHF-H** or **UHF** as required.
6. Press the \uparrow/\downarrow button to select **SEARCH**. Press the \leftarrow/\rightarrow button to commence searching. To stop the search at any time press the **MENU** or \uparrow/\downarrow button.
7. If this station is the one required store it with the **OK** button, if not press the \leftarrow/\rightarrow button again.
8. To store another station repeat steps 4 to 7.
9. Press the **MENU** button repeatedly or **TV/AV** button once to return to normal TV viewing.

Fine tuning

Normally fine tuning is only necessary if reception is poor.

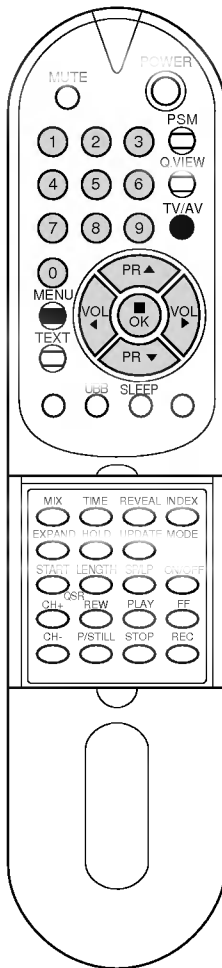
1. Repeat steps 1 to 3 above.
2. Press the \uparrow/\downarrow button to select **FINE**.
3. Press the \leftarrow/\rightarrow button to fine tune for the best picture and sound. If the \leftarrow button is pressed, the display \lll will appear. And if the \rightarrow button is pressed, the display \lll will appear.
4. Press the **OK** button to store the new setting. The display **STORED** will appear.
5. Press the **MENU** button repeatedly or **TV/AV** button once to return to normal TV viewing.
The finely tuned programme will be indicated by yellow number during programme selection.

Setting up TV stations

MENU 1

MANUAL PROGRAM
AUTO PROGRAM
PROGRAM EDIT

▲▼OK MENU



Programme edit

This function enables you to rearrange the programmes stored by auto programming in whatever order you desire. Also you can skip particular programme numbers stored by auto programming.

1. Press the **MENU** button to select MENU 1.
2. Press the \uparrow/\downarrow button to select **PROGRAM EDIT**.
3. Press the **OK** button, and the **PROGRAM EDIT** mode will appear.

PR.000100PR.00--
SKIP000000 0000OFF

▲▼04▶00-900K MENU

Exchanging programmes

1. Press the \leftarrow/\rightarrow button to change the left hand programme number. The viewing station corresponding to the new programme number is shown on the screen.
2. Press the NUMBER buttons to enter the desired right hand programme number. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
3. Press the **OK** button. The station stored in the right hand programme number will now appear as the left hand programme number.
4. Repeat steps 1 to 3 to exchange other programmes.

Skipping the stored programme

1. Press the \leftarrow/\rightarrow button to select the programme you want to skip. The viewing station corresponding to the selected programme number is shown on the screen.
2. Press the \uparrow/\downarrow button to select **SKIP**.
3. Press the \leftarrow/\rightarrow button to select **ON** or **OFF**.
If you select **ON**, the selected station is skipped.
4. Press the **OK** button. The display **STORED** will appear.
5. Press the \uparrow/\downarrow button to select first menu item then repeat steps 1 to 4 to skip another programme.

The selection of the skipped programme numbers with the NUMBER buttons is still possible and they will be indicated by cyan numbers during programme selection.

Note : You cannot skip the programme number 1.

Press the **MENU** button repeatedly or **TV/AV** button once to return to normal TV viewing.

Picture adjustment

MENU 2



You can adjust picture contrast, brightness, colour intensity, sharpness and tint (NTSC input only) to the levels you prefer.

1. Repeatedly press the **MENU** button to select MENU 2.
2. Press the **⏎** button to select the desired picture item.
3. Press the **◀/▶** button to make appropriate adjustments.

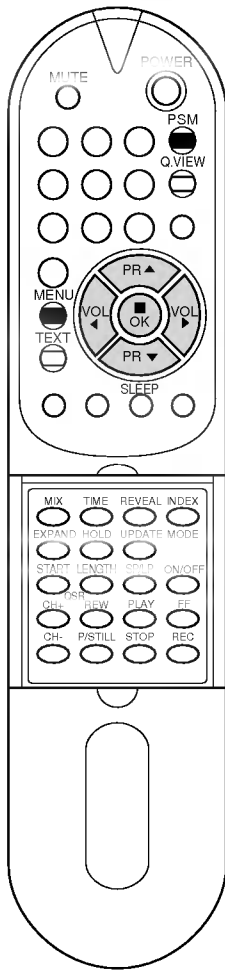
At this point you can complete your adjustments or store your setting for immediate recall by following steps 4 to 6.

4. Press the **OK** button.

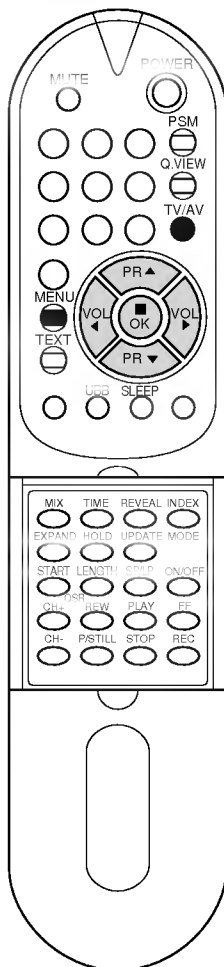
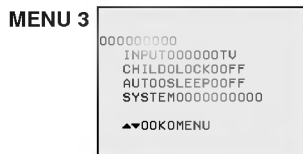


5. Select **FAVORITE 1** or **FAVORITE 2** with the **⏎** button.
The **FAVORITE 1** or **FAVORITE 2** options allow you to programme two entirely different picture settings for various lighting conditions such as day and night.
6. Press the **OK** button. The display **STORED** will appear.

To recall your preferred setting, press the **PSM** button until the desired picture (**STANDARD**, **FAVORITE 1** or **FAVORITE 2**) appears. The **STANDARD** picture is programmed for good picture reproduction at the factory and cannot be changed.



Other functions



TETRIS game (option)

In the set with TETRIS function, the set can be used TETRIS game. You can enjoy the TETRIS game with this set. To make a good score, try to pile up bricks neatly without leaving empty spaces.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the \uparrow/\downarrow button to select **TETRIS**.
3. Press the **OK** button to display the **TETRIS** mode.
4. Select and adjust **SPEED (1 to 9)**, **LEVEL (1 to 5)** or **MODE (0 to 1)** with the \uparrow/\downarrow and \leftarrow/\rightarrow button. As the background of TETRIS game mode, the TV reception mode in **MODE 0** and the muted picture in **MODE 1** will appear.
5. Select **START** with the \uparrow/\downarrow button then press the **OK** button to start the game.
6. Rotate bricks with the **OK** button, move them to left or right direction with the \leftarrow/\rightarrow button, and set them down straightly with the \uparrow/\downarrow button when playing the game. The game score will automatically be displayed.
If you want to exit this mode while the game is being played press the **TV/AV** button.
7. When the game is finished, select **EXIT** with the \uparrow/\downarrow button if you want to exit the TETRIS game. If not, select **START**.
8. Press the **OK** button.

TV and AV modes

Inputs can be set for TV or AV mode. AV mode is used when a video cassette recorder (VCR), or other equipment is connected to the set.

Note : When a VCR is connected via the aerial socket the set is used in TV mode. See the 'Connection of external equipment' section.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the \uparrow/\downarrow button to select **INPUT**.
3. Press the \leftarrow/\rightarrow button to select **TV** or **AV**.
4. Press the **OK** button.

Alternatively you can select the TV or AV mode by pressing the **TV/AV** button.

Child lock

The TV can be set so that the remote control handset is needed to control it. This feature can be used to prevent unauthorised viewing.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the \uparrow/\downarrow button to select **CHILD LOCK**.
3. Press the \leftarrow/\rightarrow button on the remote control handset to select **ON**.
4. Press the **OK** button to return to normal TV viewing.

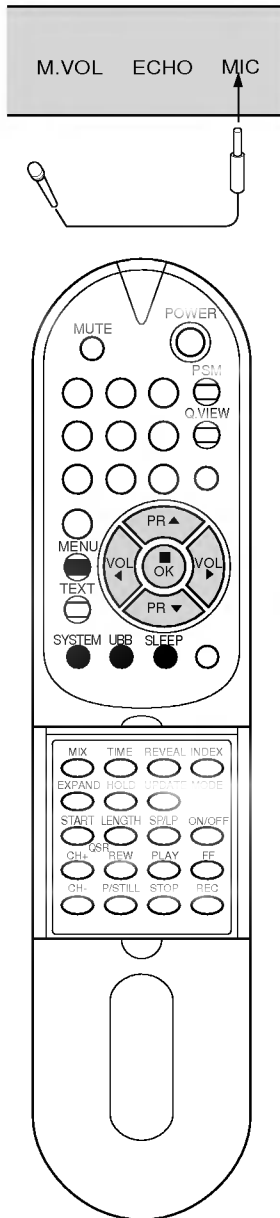
With the lock on, the display **CHILD LOCK ON** appears on the screen if any button on the front panel is pressed while viewing the TV.

Auto sleep

If you select **AUTO SLEEP ON** the set will automatically switch itself to standby mode approximately ten minutes after a TV station stops broadcasting.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the \uparrow/\downarrow button to select **AUTO SLEEP**.
3. Press the \leftarrow/\rightarrow button to select **ON**.
4. Press the **OK** button to return to normal TV viewing.

Other functions



Colour system setting

This set is adjusted for the main TV system in your area. Under normal circumstances, select **AUTO**. If necessary (if input signal is weak, colour and sound are poor), change the colour system by using the instructions below.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **;** button to select **SYSTEM**.
3. Press the **OK** button to display the sub menu.
4. Press the **;** button to select the correct colour system.
5. Press the **OK** button to store the setting. The display **STORED** will appear.

You can directly display the system selection mode by pressing the **SYSTEM** button. And then repeat steps 4 to 5 above.

Note :

- a. If you adjusted the system as shown steps above, the colour system appears in cyan when the current mode is displayed by pressing the **OK** button.
- b. The colour system which the set cannot receive could be selected but not operated.

Sleep timer

You don't have to remember to switch the set off before you go to sleep. The sleep timer automatically switches the set to standby after the preset time elapses.

For selecting your desired number of minutes, press the **SLEEP** button several times or continuously. --- will appear on the screen, followed by **120, 90, 60, 30, 20** and **10**.

The timer begins to count down from the number of minutes selected.

Note :

- a. To view the remaining sleep time, press the **SLEEP** button once.
- b. To cancel the sleep time, repeatedly press the **SLEEP** button until the display **SLEEP---** appears.
- c. When you switch the set off, the set releases the preset sleep time.

Karaoke (option)

In the set with karaoke function, the set can be used as a karaoke monitor by connecting a microphone (not supplied) and using a VCR or VDP etc.

1. Connect a microphone (∅ 6.3 mm) to the **MIC** socket on the front panel.
2. Switch the microphone on.
3. Turn the **M.VOL** knob clockwise to increase the microphone volume or counterclockwise to decrease.
4. Press the **ECHO** button to switch on (■) or off (□) the echo effect function.

Note : When a microphone connected to the set is moved too close to the set, high-pitched feedback may be heard. Then, move the microphone further from the set or decrease the microphone volume.

UBB sound (option)

In the set with UBB function, the set can be used UBB sound. Only a set with UBB sound option can perform this function. UBB (Ultra Bass Booster) sound stresses and emphasizes heavy sound.

Press the **UBB** button to switch on or off the UBB sound. The display **UBB ON** or **UBB OFF** will appear.

Time setting

MENU 4

```
CLOCK000000---:--00
OFFTIME0000---:--00
ONOFFTIME0000---:--00
ONOFFPR.000001
▲▶0◀◀00-900K0MENU
```

Clock

The clock uses the 24 hour system, and must be set to the correct time before operating the set. You must set the clock correctly before using on/off time functions.

1. Repeatedly press the **MENU** button to select MENU 4.
2. Press the \uparrow/\downarrow button to select **CLOCK**.
3. Adjust hour and minute with the \leftarrow/\rightarrow button or NUMBER buttons.
4. Press the **OK** button to return to normal TV viewing.

Off time

The set automatically switches off at the preset time.

1. Repeatedly press the **MENU** button to select MENU 4.
2. Press the \uparrow/\downarrow button to select **OFF TIME**.
3. Adjust hour and minute with the \leftarrow/\rightarrow button or NUMBER buttons.
4. Press the **OK** button to return to normal TV viewing.

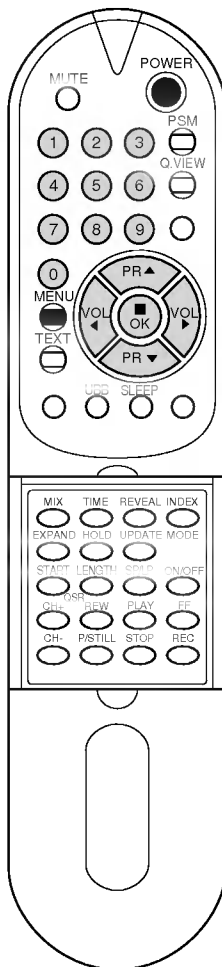
On time

The set automatically switches on at the preset time and station.

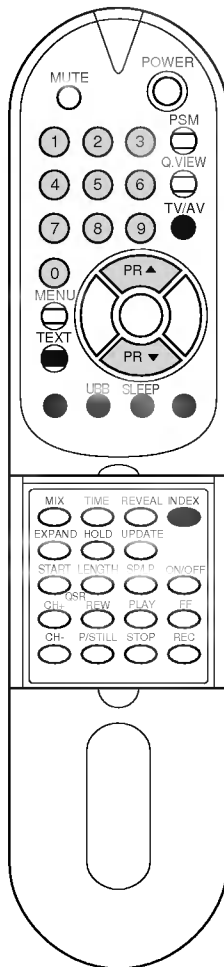
1. Repeatedly press the **MENU** button to select MENU 4.
2. Press the \uparrow/\downarrow button to select **ON TIME**.
3. Adjust hour and minute with the \leftarrow/\rightarrow button or NUMBER buttons.
4. Press the \uparrow/\downarrow button to select **ON PR.** then press the \leftarrow/\rightarrow button or NUMBER buttons to select the desired programme number.
5. Press the **OK** button to return to normal TV viewing.

Note :

- a. In the event of power interruption (disconnection or power failure), the clock, on time and off time must be reset.
- b. If the same time is set for the on time and the off time, only the off time operates.
- c. This set must be put into standby mode with the **POWER** button on the remote control handset to operate the on time function.
- d. If the on time function activates, the TV will automatically switch to the on time programme number, even during viewing.
- e. Two hours after the set is turned on by the on time function it will automatically switch back to standby mode unless a button has been pressed.
- f. Once the on or off time is set, these functions operate daily at the preset time.



Teletext (option)



Teletext is an optional function, therefore only a set with the teletext system can receive the teletext broadcast.

Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.

The teletext decoder of this TV can support the Simple, TOP and FASTEXT systems. Simple mode consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

Switch on/off

Press the **TEXT** button to switch to teletext. The initial page or last selected page appears on the screen.

Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the **TEXT** or **TV/AV** button to switch off teletext. The previous mode reappears.

Simple mode

Page selection

1. Enter the desired page number as a three digit number with the **NUMBER** buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.
2. The \uparrow / \downarrow button can be used to select the preceding or following page.

TOP mode

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

Block/group/page selection

1. With the **BLUE** button you can progress from block to block.
2. Use the **YELLOW** button to proceed to the next group with automatic overflow to the next block.
3. With the **GREEN** button you can proceed to the next existing page with automatic overflow to the next group. Alternatively the \uparrow / \downarrow button can be used.
4. The **RED** button permits to return to previous selection. Alternatively the \uparrow / \downarrow button can be used.

Direct page selection

Corresponding to the Simple mode, you can select a page by entering it as a three digit number using the **NUMBER** buttons in TOP mode.

FASTEXT mode

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

Page selection

1. Press the **INDEX** button to select the index page.
 2. You can select the pages which are colour coded along the bottom line with the same coloured buttons.
 3. Corresponding to the Simple mode, you can select a page by entering its three digit page number with the **NUMBER** buttons in FASTEXT mode.
 4. The \uparrow / \downarrow button can be used to select the preceding or following page.
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Teletext (option)

Special teletext functions

REVEAL

Press this button to display concealed information, such as solutions of riddles or puzzles.

Press this button again to remove the information from the display.

EXPAND



Selects double height text.

Press this button to enlarge the top half of the page.

Press this button again to enlarge the bottom half of the page.

Press this button again to return to the normal display.

UPDATE

Displays the TV picture on the screen while waiting for the new teletext page. The display  will appear at the top left hand corner of the screen. When the updated page is available then display  will change to the page number.

Press this button to view the updated teletext page.

HOLD

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inhibited.

To continue press this button again.

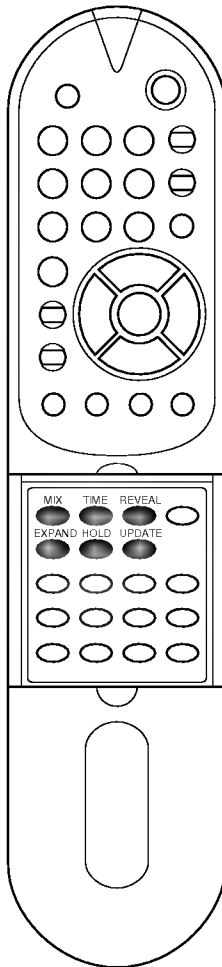
MIX

Displays the teletext pages superimposed on the TV picture.

To switch the TV picture off press this button again.

TIME

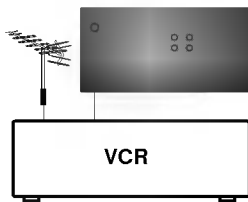
When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, \bar{i} or NUMBER buttons. Press again to exit this function.



Connection of external equipment

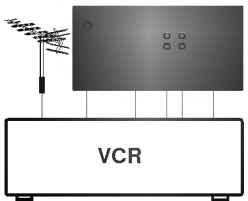
You can connect additional equipment, such as VCRs, camcorders etc. to your set. Here shown may be somewhat different from your set.

Aerial socket



1. Connect the RF out socket of the VCR to the aerial socket on the back of the set.
2. Connect the aerial cable to the RF aerial in socket of the VCR.
3. Store the VCR channel on a desired programme number using the 'Manual programme tuning' section.
4. Select the programme number where the VCR channel is stored.
5. Press the **PLAY** button on the VCR.

Audio/Video in/out sockets

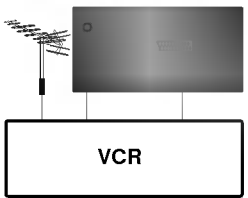


1. Connect the audio/video out sockets of the VCR to audio/video in sockets of the set and in sockets of the VCR to out sockets of the set.
2. Press the **TV/AV** button to select **AV**.
3. Press the **PLAY** button on the VCR.
The VCR playback picture appears on the screen.

You can also record programmes received by the TV on video tape via audio/video out sockets.

Euro scart socket

If your set has the Euro scart socket,



1. Connect the euro scart socket of the VCR to the Euro scart socket of the set.
2. Press the **PLAY** button on the VCR.
If your VCR outputs a switching voltage the set will switch to AV mode automatically.
Otherwise, press the **TV/AV** button on the remote control handset to select **AV**. The VCR playback picture appears on the screen.

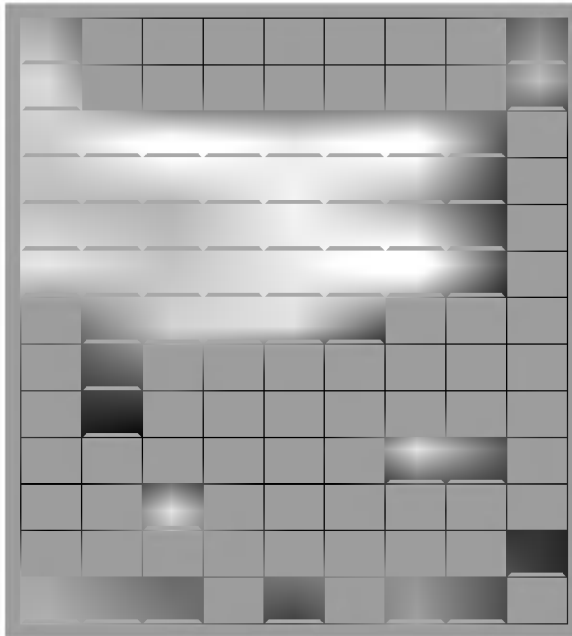
Troubleshooting check list

Symptoms

- No picture, no sound
- Sound OK, poor picture
- Picture OK, poor sound
- Picture blurred
- Lines or streaks in picture
- Poor reception on some channels
- No colour
- Poor colour
- Remote control does not work



Check these items and try to adjust these



- The mains plug-(plugged in and switched on)
 - Is the TV switched on
 - Try another channel (weak signal)
 - Check aerial (plugged into TV?)
 - Check aerial (broken lead?)
 - Check aerial
 - Check for local interference
 - Adjust contrast
 - Adjust brightness
 - Adjust colour
 - Adjust volume
 - Check the batteries in remote control
 - Check Audio/Video sockets (VCR only)
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