

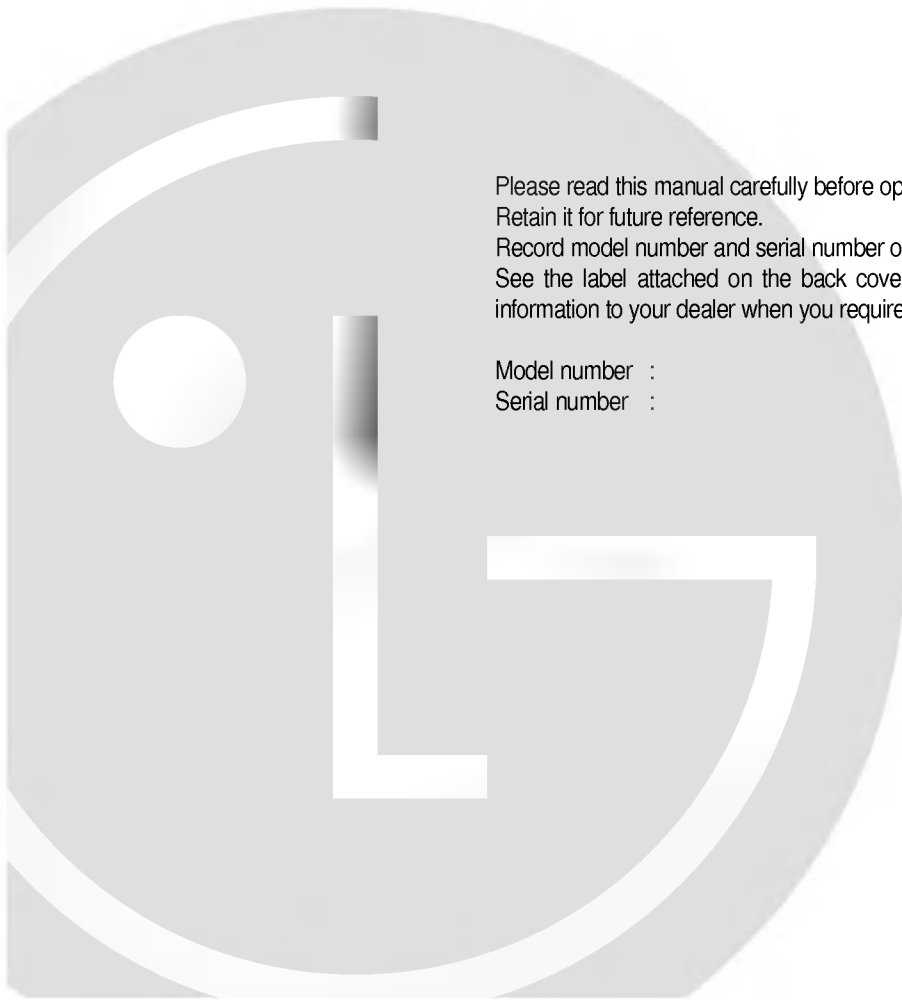


# Colour Television

## OWNER'S MANUAL

Please read this manual carefully before operating your set.  
Retain it for future reference.  
Record model number and serial number of the set.  
See the label attached on the back cover and quote this  
information to your dealer when you require service.

Model number :  
Serial number :



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# Installation

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## 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

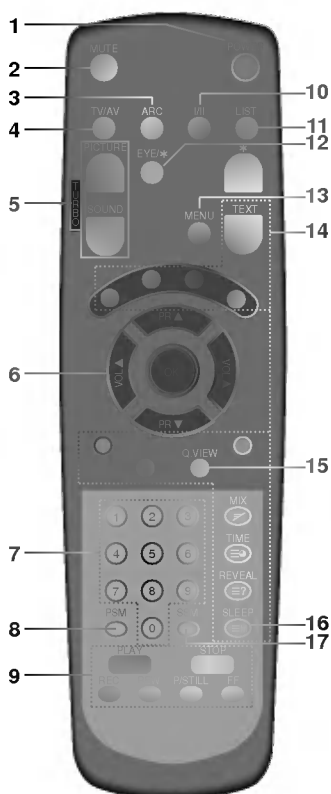
Connect the aerial cable to the socket marked 175  $\Omega$  on the back cover. For the best reception an outdoor aerial should be used.

## Location

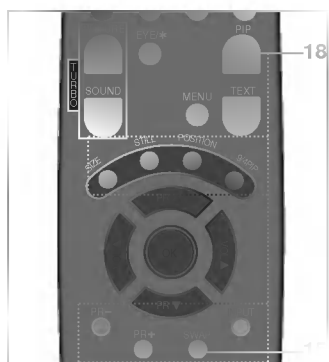
Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on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

## Location and function of controls

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.



(With teletext)  
(Without PIP)



(With teletext / PIP)

### 10 Remote control handset

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

1. **POWER**  
switches the set on from standby or off to standby.
2. **MUTE**  
switches the sound on or off.
3. **ARC (Aspect Ratio Control)**  
changes the picture format.
4. **TV/AV**  
selects TV or AV mode.  
clears the menu / text from the screen.  
switches the set on from standby.
5. **TURBO PICTURE / SOUND BUTTON**  
selects Turbo picture / sound.
6. **▲ / ▼ (Programme Up/Down)**  
selects a programme or a menu item.  
switches the set on from standby.  
**◀ / ▶ (Volume Up/Down)**  
adjusts the volume.  
adjusts menu settings.  
**OK**  
accepts your selection or displays the current mode.
7. **NUMBER BUTTONS**  
switches the set on from standby or directly select a number.
8. **PSM (Picture Status Memory)**  
recalls your preferred picture setting.
9. **VCR BUTTONS (option)**  
control a LG video cassette recorder.
10. **I/II**  
selects the language during dual language broadcast (option).  
selects the sound output.
11. **LIST**  
displays the programme table.
12. **EYE/★ (option)**  
switches the eye function on or off.
13. **MENU**  
selects a menu.

## Location and function of controls

### 14. TELETEXT BUTTONS (option)

These buttons are used for teletext.  
For further details, see the 'Teletext' section.

### 15. SWAP or Q.VIEW

returns to the previously viewed programme.

### 16. SLEEP

sets the sleep timer.

### 17. SSM (Sound Status Memory)

recalls your preferred sound setting.

### 18. PIP BUTTONS (option)

#### PIP

switches the sub picture on or off.

#### PR +/-

selects a programme for the sub picture.

#### SWAP

alternates between main and sub picture.

#### INPUT

selects the input mode for the sub picture.

#### SIZE

adjusts the sub picture size.

#### STILL

freezes motion of the sub picture.

#### POSITION

relocates the sub picture in clockwise direction.

#### 9/4 PIP

switches on or off the 9 or 4 sub pictures.

### COLOURED BUTTONS

These buttons are used for teletext (only TELETEXT models) or programme edit.

### Battery installation

The remote control handset is powered by two AAA or AA type batteries. To load the batteries, turn the remote control handset over and open the battery compartment. Install two batteries as indicated by the polarity symbols (⊕ and ⊖) marked inside the compartment.



(With teletext)



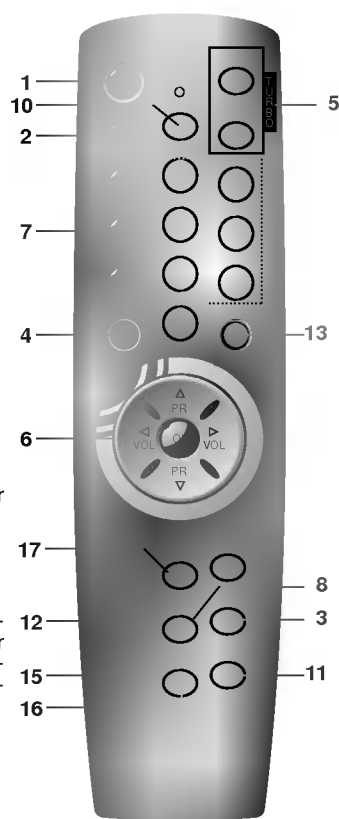
AAA



AA



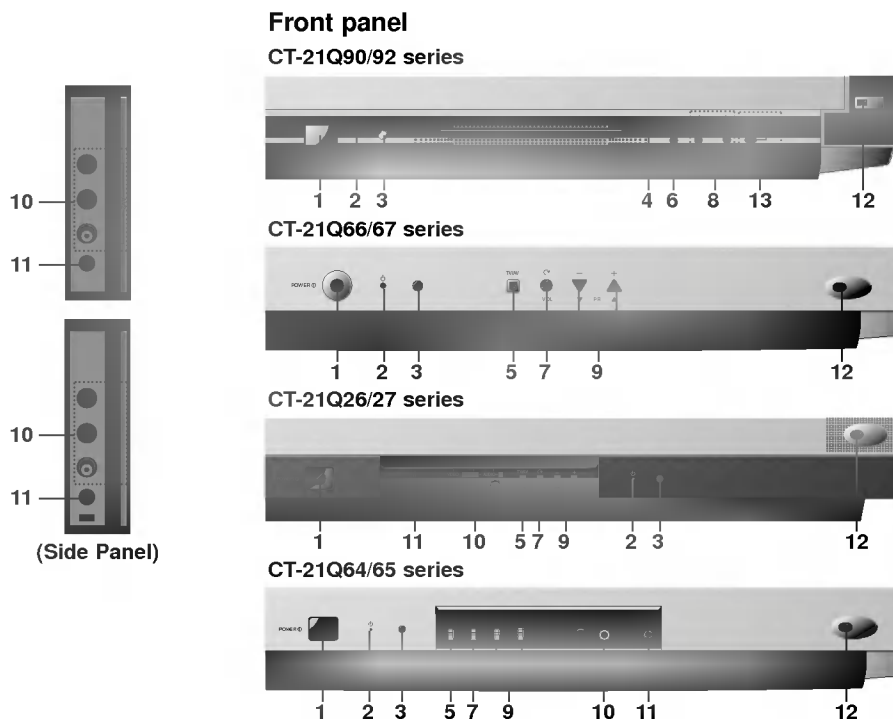
(Without teletext)



(Without teletext / PIP)

**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



1. **MAIN POWER**  
switches the set on or off.
2. **POWER/STANDBY INDICATOR**  
illuminates brightly when the set is in standby mode.  
dims when the set is switched on.
3. **REMOTE CONTROL SENSOR**
4. **MENU**  
selects a menu.
5. **TV/AV**  
selects TV or AV mode.  
clears the menu from the screen.  
switches the set on from standby.
6. **OK**  
selects your selection or displays the current mode.
7. **⌂ (Function)**  
selects volume, EYE (option), picture items or brief auto programme while the menus not display.
8. **▲ / ▼ (Programme Up/Down)**  
selects a programme or a menu item.  
switches the set on from standby.  
**◀ / ▶ (Volume Down/Up)**  
adjusts the volume.  
adjusts menu settings.
9. **+/- (▲/▼)**  
adjusts the function or selects a programme.  
switches the set on from standby.
10. **AUDIO/VIDEO IN SOCKETS (AV2 or AV3) (option)**  
Connect the audio/video out sockets of external equipment to these sockets.
11. **HEADPHONE SOCKET (option)**  
Connect the headphone plug to this socket.
12. **EYE (option)**  
adjusts picture according to the surrounding conditions.
13. **TURBO SOUND / PICTURE (option)**  
switches Turbo sound or Turbo picture function on or off.

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## Basic operation

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### 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**, **▲ / ▼**, **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 or power on when the mains plug is replaced in the mains power socket.

### Programme selection

You can select a programme number with the **▲ / ▼** or **NUMBER** buttons.


### Volume adjustment

Press the **◀ / ▶** button to adjust the volume.

### Quick view

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

### Mute function

Press the **MUTE** button. The sound is switched off and the display  appears.  
You can cancel it by pressing the **MUTE**, **◀ / ▶**, **SSM**, **I/II**, **TURBO SOUND** button.

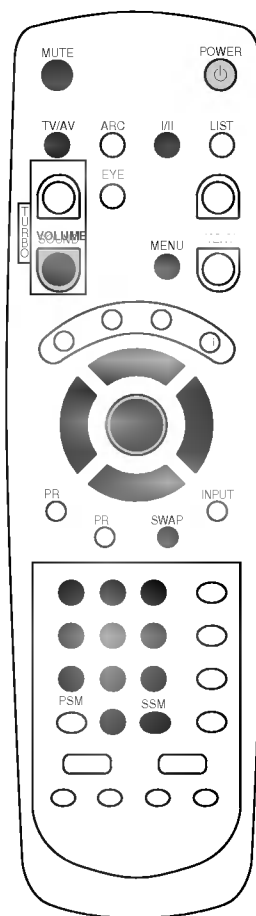
### Auto Demonstration

To review all the menus programmed in the set, press the **OK** or **↻** button of the front panel control for about 5 seconds. To stop auto demonstration, press any button of the front panel control and **POWER** button of the remote control.

### On screen language selection

The menu can be displayed on the screen in desired language. First select your language.

1. Press the **MENU** button to select the Station menu.
2. Press the **▲ / ▼** button to select **Language**.
3. Press the **OK** button.
4. Press the **▲ / ▼** button to select your desired language.
5. Press the **OK** button.  
All the on screen displays will appear in the selected language.
6. Press the **TV/AV** button to return to normal TV viewing.



## On screen menus

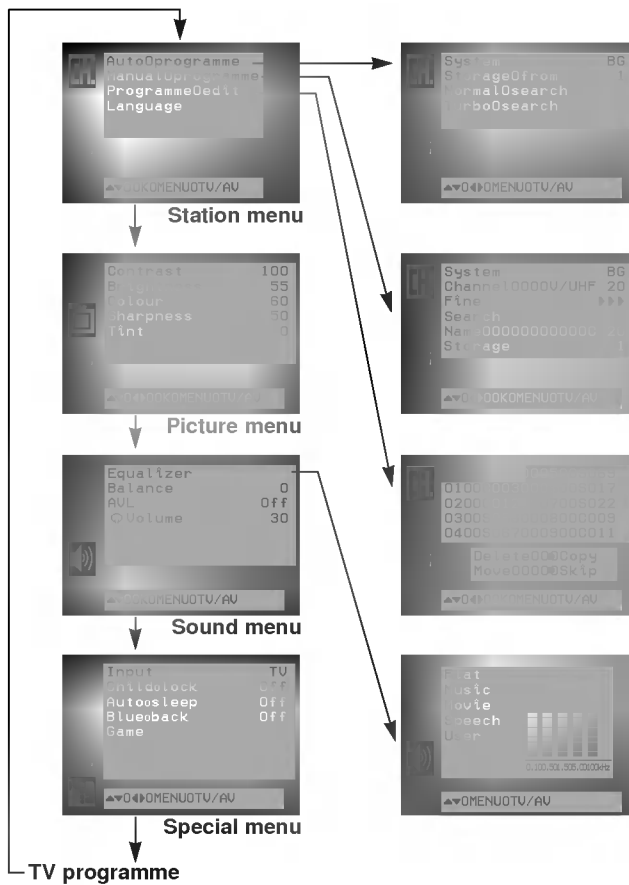
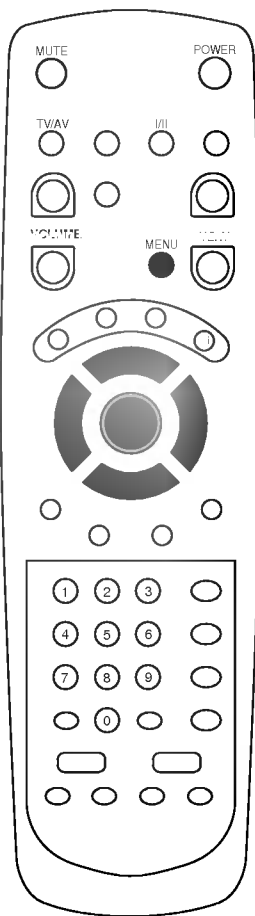
The dialogue between you and your set takes place on screen with an operator menu. The buttons required for the operating steps are also displayed.

### Menu selection

1. Repeatedly press the **MENU** button to display each menu.
2. Press the **▲ / ▼** button to select a menu item.  
The selected menu item changes from white to red.
3. Press the **◀ / ▶** button to change the setting of a menu item or **OK** button to display the sub menu.

#### Note :

- a. In the AV mode, the Station menu is not displayed.
- b. In the teletext mode, menus are not displayed.
- c. In some models, the **Normal/Turbo search** will not display, only the **Start** will display in the **Auto programme** menu.
- d. In some models, **Game** will not display.





## Setting up TV stations

Up to 100 TV stations can be stored in this set by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the ▲ / ▼ or NUMBER buttons to scan the stations you programmed. Stations can be tuned using automatic or manual modes.

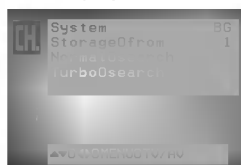
### Auto programme tuning

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. Repeatedly press the **MENU** button to select the **Station menu**.
2. Press the ▲ / ▼ button to select **Auto programme**.
3. Press the **OK** button to display the **Auto programme** menu.



Station Menu

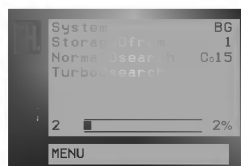


4. Press the ▲ / ▼ button to select **System**. Select a TV system with the ◀ / ▶ button;
  - BG** : (Asia/New Zealand/M.East/Africa/Australia)
  - I** : (Hong Kong/South Africa)
  - DK** : (East Europe/China/Africa/CIS)
  - M** : (USA/Korea/Philippines)
5. Press the ▲ / ▼ button to select **Storage from**.
6. Select the beginning programme number with the ◀ / ▶ button or NUMBER buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
7. Press the ▲ / ▼ button to select **Normal** or **Turbo search**.

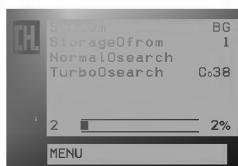
**Option:** In some models, Only can select **Start**.

#### Note :

- Turbo search** is further faster than **Normal search** and in some models, these searches will automatically store all receivable stations.
  - If the programmed station has poor quality sound, select the system again in the **Manual programme** menu.
8. Press the **OK** button to begin auto programming.



(Normal search)



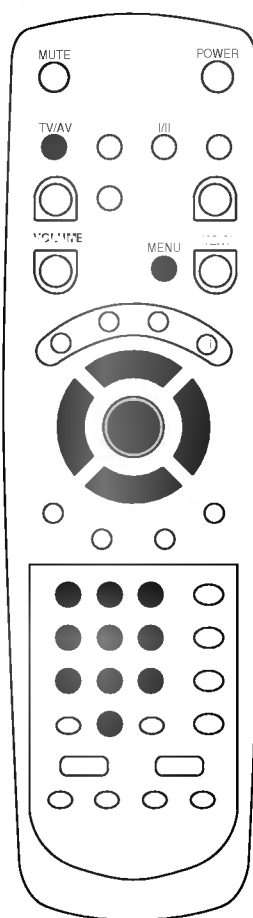
(Turbo search)

All receivable stations are stored.

To stop auto programming, press the **MENU** button.

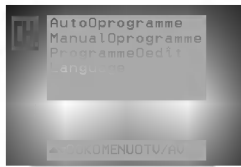
When auto programming is completed, the **Programme edit** menu appears on the screen. See the 'Programme edit' section to edit the stored programme.

9. Press the **TV/AV** button to return to normal TV viewing.



## Setting up TV stations

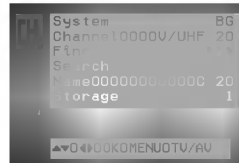
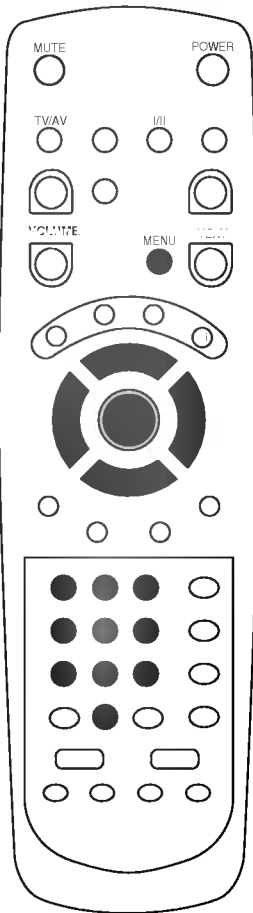
### Station Menu



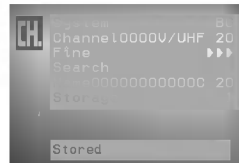
### Manual programme tuning

Manual programme lets you manually tune and arrange the stations in whatever order you desire. Also you can assign a station name with five characters to each programme number.

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the **▲ / ▼** button to select **Manual programme**.
3. Press the **OK** button to display the **Manual programme** menu.



4. Press the **▲ / ▼** button to select **System**. Select a TV system with the **◀ / ▶** button;
  - BG** : (Asia/New Zealand/M.East/Africa/Australia)
  - I** : (Hong Kong/South Africa)
  - DK** : (East Europe/China/Africa/CIS)
  - M** : (USA/Korea/Philippines)
5. Press the **▲ / ▼** button to select **Channel**. Press the **◀ / ▶** button to select **V/UHF** or **Cable** as required. If possible, select the channel number (1 to 69) directly with the number buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
6. Press the **▲ / ▼** button to select **Search**. Press the **◀ / ▶** button to commence searching. If a station is found the search will stop.
7. If this station is the one required, press the **▲ / ▼** button to select **Storage**. Select the desired programme number (0 to 99) with the **◀ / ▶** button or NUMBER buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
8. Press the **OK** button to store it. The display **Stored** will appear.



9. To store another station, repeat steps 4 to 8.

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## Setting up TV stations

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### Assigning a station name

1. Repeat the 'Manual programme tuning' steps 1 to 3.
2. Press the ▲ / ▼ button to select **Name**.
3. Press the ► button. You can use a blank, +, -, the numeric 0 to 9 and the alphabet A to Z.  
With the ◀ button you can select in the opposite direction.
4. Select the next position by pressing the OK button and then take your choice of the second character, and so on.
5. Repeat the 'Manual programme tuning' steps 7 to 8.



Station Menu

Press the TV/AV button to return to normal TV viewing.

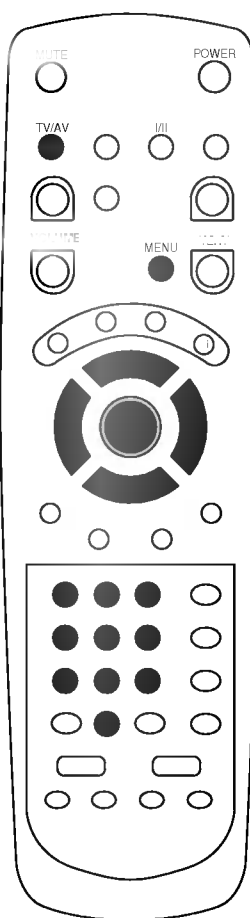
### Fine tuning

Normally fine tuning is only necessary if reception is poor.

1. Repeat the 'Manual programme tuning' steps 1 to 3.
2. Press the ▲ / ▼ button to select **Fine**.
3. Press the ◀ / ► button to fine tune for the best picture and sound.



4. Repeat the 'Manual programme tuning' steps 7 to 8.
5. Press the TV/AV button to return to normal TV viewing.  
The finely tuned programme will be indicated by yellow number during programme selection.



## Setting up TV stations

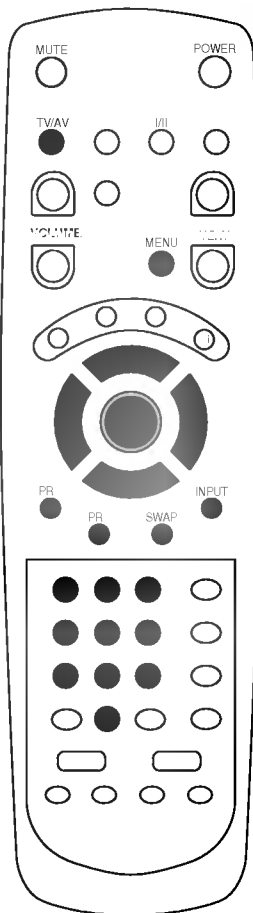
### Station Menu



### Programme edit

This function enables you to delete or skip the stored programmes. Also you can move some stations to other programme numbers or insert a blank station data into the selected programme number.

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the **▲ / ▼** button to select **Programme edit**.
3. Press the **OK** button to display the **Programme edit** menu.



### Deleting a programme

1. Select a programme to be deleted with the **▲ / ▼** or **◀ / ▶** button.
2. Press the **RED** button twice.  
The selected programme is deleted, all the following programmes are shifted up one position.

### Copying a programme

1. Select a programme to be copied with the **▲ / ▼** or **◀ / ▶** button.
2. Press the **GREEN** button.  
All the following programmes are shifted down one position.

### Moving a programme

1. Select a programme to be moved with the **▲ / ▼** or **◀ / ▶** button.
2. Press the **YELLOW** button.
3. Move the programme to the desired programme number with the **▲ / ▼** or **◀ / ▶** button.
4. Press the **YELLOW** button again to release this function.



### Skipping a programme number

1. Select a programme number to be skipped with the **▲ / ▼** or **◀ / ▶** button.
2. Press the **BLUE** button. The skipped programme turns to blue.
3. Press the **BLUE** button again to release the skipped programme.

When a programme number is skipped it means that you will be unable to select it using the **▲ / ▼** button during normal TV viewing. If you want to select the skipped programme, directly enter the programme number with the **NUMBER** buttons or select it in the programme edit or table menu.

Press the **TV/AV** button to return to normal TV viewing.

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## Setting up TV stations

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### Calling the programme table

You can check the programmes stored in the memory by displaying the programme table.

#### Displaying programme table

Press the **LIST** button to display the **Programme table** menu. The programme table appears on the screen. One programme table contains ten programmes as below.



#### Note :

- You may find some blue programmes. They have been set up to be skipped by auto programming or in the programme edit mode.
- Some programmes with the channel number shown in the programme table indicate there is no station name assigned.

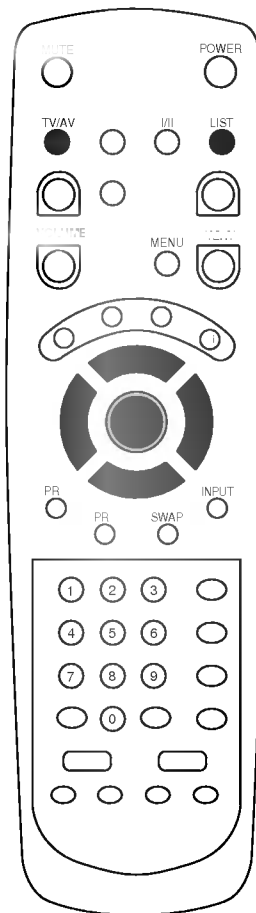
#### Selecting a programme in the programme table

Select a programme with the **▲ / ▼** or **◀ / ▶** button. Then press the **OK** button. The set switches to the chosen programme number.

#### Paging through a programme table

There are 10 programme table pages in which contain 100 programmes. Pressing the **▲ / ▼** or **◀ / ▶** button repeatedly turns the pages.

Press the **TV/AV** button to return to normal TV viewing.



## Picture adjustment

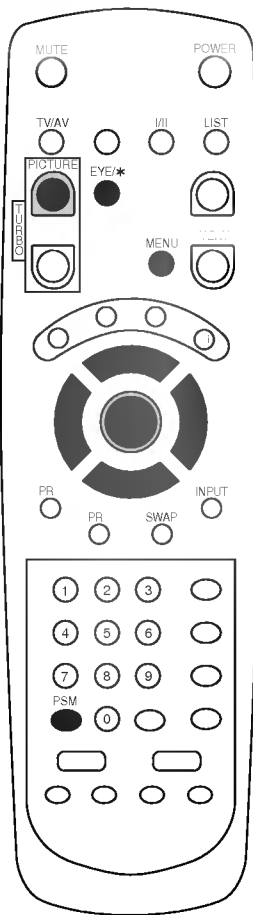
### Picture Menu



### Picture adjustment

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 the Picture menu.
2. Press the **▲** / **▼** button to select the desired picture item.
3. Press the **◀** / **▶** button to make appropriate adjustments.



4. Press the **OK** button to store it for the picture **User**.

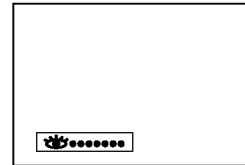
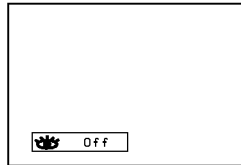
To recall your preferred setting, press the **PSM** button until the desired picture (**Dynamic**, **Standard**, **Mild**, **Game** or **User**) appears. The picture **Dynamic**, **Standard**, **Mild** and **Game** are programmed for good picture reproduction at the factory and cannot be changed.

### Eye (option)

Eye is an optional function. Only a set with eye option can perform this function.

In some models, the set will automatically adjust the picture according to the surrounding conditions. This will enable you to enjoy the most suitable picture according to the surroundings.

Press the **EYE/\*** button to switch the eye function on or off.



When the eye function is on, the most suitable picture is automatically adjusted according to the surrounding conditions.

At this time the display **●●●●●●** in green does not appear continuously but the display **●●●●●●** in yellow appears each time the picture condition changes.

**Note** : If you press the **PSM** or **TURBO PICTURE** button with the eye function, the eye function is automatically switched off.

## Picture adjustment

### Picture format

You can watch TV in various picture formats; Standard, 16:9 (Wide), Zoom 1 or Zoom 2. Repeatedly press the **ARC** button to select your desired picture format.

#### Standard

This picture format is 4 to 3 of general TV.

#### 16:9

You can enjoy the cinema (the picture format of 16:9) or general TV programme through the 16:9 mode. The screen 16:9 is viewed just like that but the screen 4:3 is magnified to the left and right so that the screen 16:9 is full.

#### Zoom 1

You can enjoy the cinema in a vast screen through the Zoom mode. The screen 4:3 is magnified to the upper/lower and left/right sides so that the screen 16:9 is full. The bottom and top of the picture may be lost.

#### Zoom 2

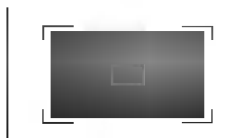
You can enjoy more magnified screen in this mode. The screen Zoom 2 is viewed just like that but the screen 16:9 is magnified to the upper and lower so that the screen Zoom 2 is full.

#### Note :

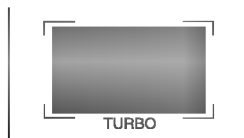
- When you switch the set to standby or off, the **16:9** or **Zoom** picture format is reset to the **Standard** (4:3).
- In the 1/2 size sub picture and vertical four sub pictures of PIP mode the picture format is not available.

### Turbo picture selection (option)

When this function is on, picture will be more brilliant and distinct picture than normal picture. You can enjoy the Turbo picture so much better than normal picture. Repeatedly press the **TURBO PICTURE** button to switch on or off.



(Turbo Picture off)

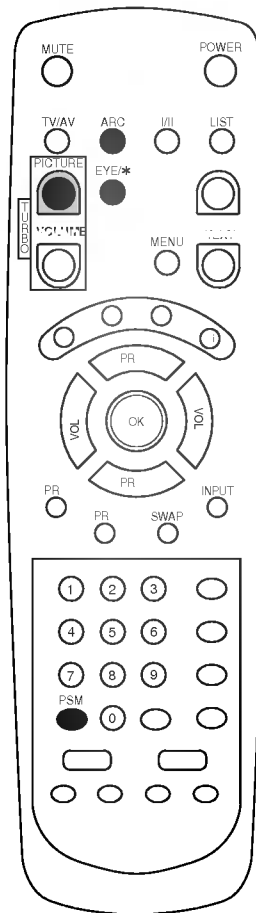


(Turbo Picture on)

**Note :** If you press the **PSM** or **EYE/★** button with the Turbo picture function, the Turbo picture function is automatically switched off.

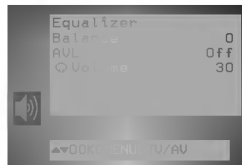


Picture Menu



## Sound adjustment

### Sound Menu



### Sound adjustment

You can select your preferred sound setting; Flat, Music, Movie or Speech and you can also adjust the sound frequency of equalizer, balance, headphone volume/sound (option). If you switch AVL to on, the set automatically keeps on an equal volume level even if you change programmes. The Turbo sound creates an all around sound as in a concert hall.

1. Repeatedly press the **MENU** button to select the Sound menu.
2. Press the **▲ / ▼** button to select the desired sound item; **Equalizer**, **Balance**, **AVL** or **Volume** (option).
3. Press the **◀ / ▶** button to make desired adjustment. Press the **OK** button in **Equalizer** to set the **Equalizer User**.



- a. Select **User** by pressing the **▲ / ▼** button.
- b. Select a sound band by pressing the **◀ / ▶** button.
- c. Make appropriate sound level with the **▲ / ▼** button.
- d. Press the **OK** button to store it for the sound **User**. The display **Stored** appears.

Press the **TV/AV** button to return to normal TV viewing.

To recall your preferred setting, press the **SSM** button until the desired sound (**Flat**, **Music**, **Movie**, **Speech** or **User**) appears. The sound **Flat**, **Music**, **Movie** and **Speech** are programmed for good sound reproduction at the factory and cannot be changed.

**Note :** If you press the **SSM** button after making appropriate adjustment in Sound menu, the display **User** automatically appears even though you have already set a factory preset setting; **Flat**, **Music**, **Movie** or **Speech**.

### Turbo sound selection (option)

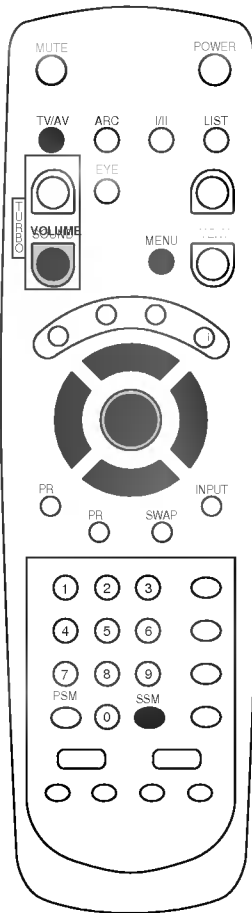
When this function is on, sound will be more emphasized and amplified sound than normal sound. You can enjoy the Turbo Sound so much better than normal Sound. Repeatedly press the **TURBO SOUND** button to switch on or off.



(Turbo Sound off)



(Turbo Sound on)





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## Sound adjustment

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### Stereo/Dual reception (option)

Stereo/dual is an optional function.

When a programme is selected, the sound information for the station appears after the programme number and station name disappear.

Broadcast	On Screen Display
Mono	<b>MONO</b>
Stereo	<b>STEREO</b>
Dual	<b>DUAL I</b>

### Mono sound selection

In stereo reception if the stereo signal is weak, you can switch to mono by pressing the I/II button twice. In mono reception the depth of sound is improved. To switch back to stereo, press the I/II button twice again.

### Language selection for dual language broadcast

If a programme received in two languages (dual language), you can switch to **DUAL I**, **DUAL II** or **DUAL I+II** by pressing the I/II button repeatedly.

**DUAL I** sends the primary broadcast language to the loudspeakers.  
**DUAL II** sends the secondary broadcast language to the loudspeakers.

**DUAL I+II** sends a separate language to each loudspeaker.

### NICAM reception (option)

If your set is equipped with the receiver for NICAM reception, the high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

Sound output can be selected according to the type of received broadcast as follows by pressing the I/II button repeatedly.

1. When NICAM mono is received, you can select **NICAM MONO** or FM MONO.
2. When NICAM stereo is received, you can select **NICAM STEREO** or FM MONO. If the stereo signal is weak, switch to FM mono.
3. When NICAM dual is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II** or **MONO**. When FM mono is selected the display **MONO** appears on the screen.

### Sound output selection

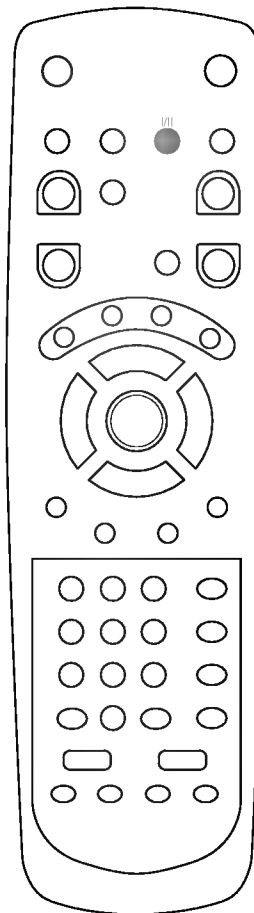
In AV mode, you can select output sound for the left and right loudspeakers.

Repeatedly press the I/II button to select the sound output.

**L+R** : Audio signal from audio L input is sent to left loud-speaker and audio signal from audio R input is sent to right loud-speaker.

**L+L** : Audio signal from audio L input is sent to left and right loudspeakers.

**R+R** : Audio signal from audio R input is sent to left and right loudspeakers.

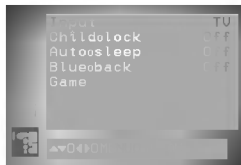


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## Other functions

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### Special Menu



### 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 the Special menu.
2. Press the **▲ / ▼** button to select **Input**.
3. Press the **◀ / ▶** button to select **TV**, **AV 1**, **AV 2** or **AV 3** (option).

The AV modes are :

- AV1 : VCR connected to the Euro scart socket or phone jack of the set
- AV2 : VCR connected to the **AV2** sockets of the set
- AV3 : VCR connected to the **AV3** sockets of the set (option)

To return to TV mode, press the **▲ / ▼** or **NUMBER** buttons.

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

### Auto AV switching (option)

If your VCR outputs switching voltage when it is switched to playback with the VCR connected to the Euro scart socket. The set is automatically switched to **AV 1** mode when an AV signal is input. But if you want to keep on watching TV mode, press the **▲ / ▼** or **NUMBER** buttons.

Press the **TV/AV** button to return to AV modes.

### 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 unauthorized viewing.

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the **▲ / ▼** button to select **Child lock**.
3. Press the **◀ / ▶** button on the remote control handset to select **On**.
4. Press the **TV/AV** button to return to normal TV viewing.

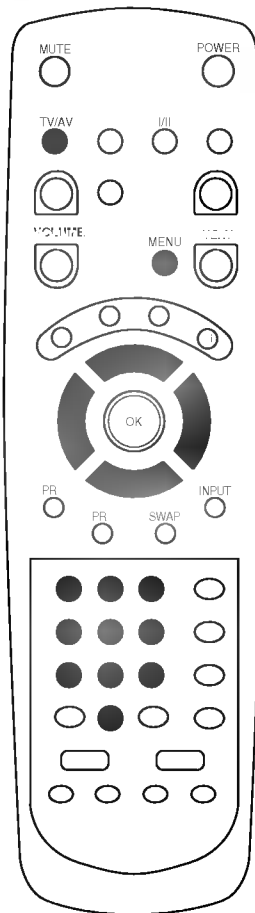
With the lock on, the display **Child lock on** appears on the screen if any button on the front panel is pressed while viewing the TV.

**Note :** The display **Child lock on** will not appear on the screen if any button on the front panel is pressed while displaying the menus.

### 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 the Special menu.
2. Press the **▲ / ▼** button to select **Auto sleep**.
3. Press the **◀ / ▶** button to select **On**.
4. Press the **TV/AV** button to return to normal TV viewing.



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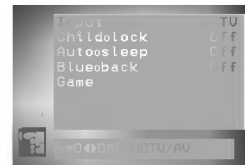
## Other functions

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### Blue back

If you select **Blue back On**, the blue background appears on the screen when there is no or poor signal.

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the **▲/▼** button to select **Blue back**.
3. Press the **◀/▶** button to select **On** or **Off**.
4. Press the **TV/AV** button to return to normal TV viewing.



Special Menu

### Game (option)

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the **▲/▼** button to select **Game**.
3. Press the **OK** button to enter the game mode.
4. Press the **▲/▼** button to select the game 1 or 2, then press the **OK** button.
5. Press the **◀/▶** button to select a level, then press the **OK** button.
6. Press the **▲/▼** button to select the music on or off.
7. Press the **OK** button to start the game.

#### 1. PERFECT PUZZLE

8. Press the **◀/▶** button to move the object to the left or right. Press the **▼** button to make the object fall down and press the **OK** button to change the order of icons inside the object. The game scores are displayed on the screen.

#### 2. QUICK BRAIN

8. Select a pair of cards with same picture by pressing the **▲/▼**, **◀/▶** and **OK** button. If you find all the pairs of cards with same picture in a level, the next level begins automatically.

#### Note :

- a. Press the **TV/AV** or **MENU** button to return to the normal TV viewing.
- b. If you want a new game, press the **RED** button to start.

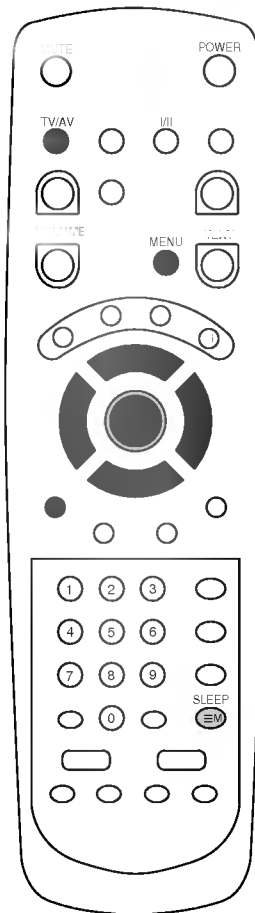
### Sleep timer

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.

Press the **SLEEP** button to select the number of minutes. The display **⌚ 0** will appear on the screen, followed by **10, 20, 30, 60, 90, 120, 180** and **240**. 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 **⌚ 0** appears.
- c. When you switch the set off, the set releases the preset sleep time.



## PIP operation (option)

### Option :

PIP is an optional function, so that only the set with PIP function can operate.

PIP (Picture in Picture) displays a picture within a picture.

### On and off

Press the **PIP** button to switch on one of the 1/16, 1/4 and 1/2 size sub pictures.

Press this button again to switch it off.

### Input mode selection for sub picture

Press the **INPUT** button to select the input mode for the sub picture.

Each time this button is pressed, each input mode for the sub picture is displayed as shown below at the left upper side of sub picture.

Main picture	Sub picture
TV	➔ AV1 ➔ AV2 ➔ AV3 (option) —
AV1	➔ TV ➔ AV2 ➔ AV3 (option) —
AV2	➔ TV ➔ AV1 ➔ AV3 (option) —
AV3 (option)	➔ TV ➔ AV1 ➔ AV2 —

### Swapping between main and sub pictures

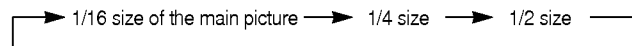
Press the **SWAP** button to exchange the main and sub pictures.

### Programme selection for sub picture (option)

The sub picture programme selection is available when the sub picture is TV mode. Press the **PR +/-** buttons to select a programme for the sub picture. The selected programme number is displayed at the left upper side of sub picture.

### Sub picture size

Repeatedly press the **SIZE** button to select the desired sub picture size. The sub picture appears as below.



### Sub picture freeze

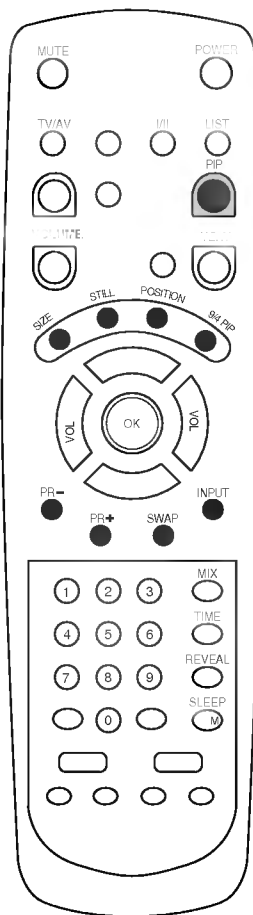
Press the **STILL** button to freeze motion of the sub picture. Press this button again to restore motion.

### Sub picture position change

Press the **POSITION** button repeatedly until desired position is achieved. The 1/16 and 1/4 sub pictures move clockwise.

### 9 or 4 sub picture

Press the **9/4 PIP** button repeatedly to select 9 or 4 sub pictures.



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## Teletext (option)

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Teletext (or TOP text) 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 (standard teletext) 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.

If TV and text picture are displayed half and half of the screen, press the **TEXT** button again to display text picture fully.

The initial page or last 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 text

#### Page selection

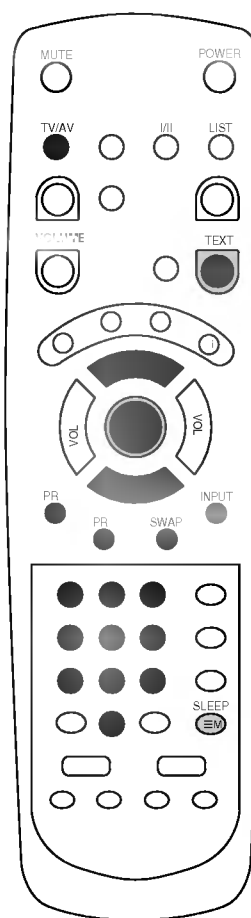
1. Enter the desired page number as a three digit number with the **NUMBER** buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.
2. The **▲ / ▼** button can be used to select the preceding or following page.

#### Programming a colour button in LIST mode

If the TV is in SIMPLE text, TOP text or FASTEXT mode, press the **EM** button to switch to LIST mode.

Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control handset.

1. Press a coloured button.
2. Using the **NUMBER** buttons, select the page you wish to programme.
3. Press the **OK** button. Then the selected page is stored as the selected page number with blinking once. From now on, you can select this page with the same coloured button.
4. The three other coloured buttons are programmed in this way.



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## Teletext (option)

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### TOP text (option)

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 ▲ button can be used.
4. The red button permits to return to previous selection.  
Alternatively the ▼ button can be used.

#### Direct page selection

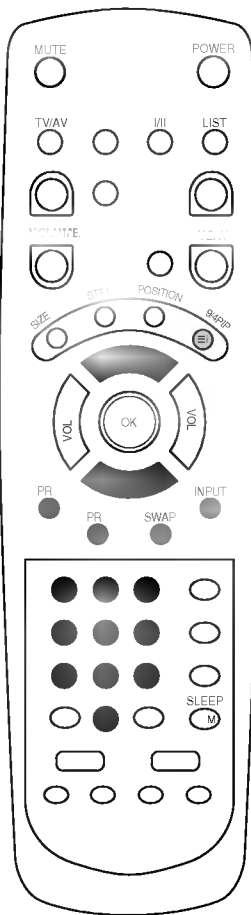
Corresponding to the SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

### FASTEXT

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 ⊖ 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 teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
4. The ▲ / ▼ button can be used to select the preceding or following page.











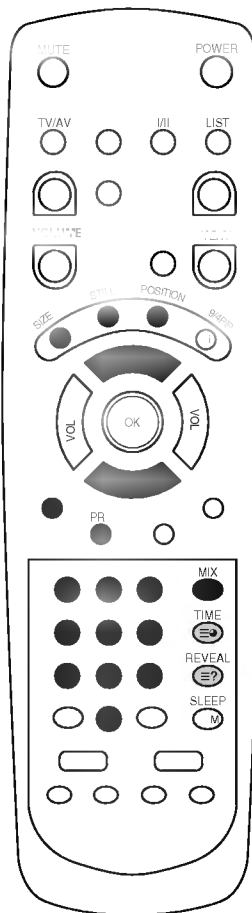
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## Teletext (option)

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### 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.
-  **SIZE**  
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.  
*Note : When TV and text picture are displayed half and half of the screen, MIX function is not available.*
-  **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, ▲ / ▼ or NUMBER buttons.  
Press again to exit this function.

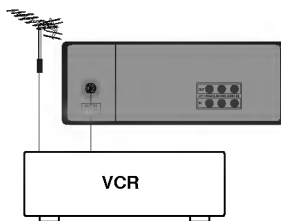


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## Connection of external equipment

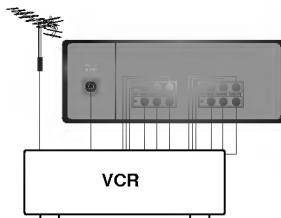
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You can connect additional equipment, such as VCRs, camcorders etc. to your set. Here shown may be somewhat different from your set.



### Aerial socket

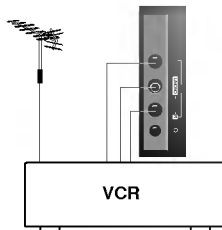
1. Connect the RF out socket of the VCR to the aerial socket on the back of the set.
2. Connect the aerial cable to the RF aerial in socket of the VCR.
3. Store the VCR channel on a desired programme number using the 'Manual programme tuning' section.
4. Select the programme number where the VCR channel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



### Audio/Video in/out sockets (option)

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. If the VCR is connected to the AV sockets on the set, press the **TV/AV** button to select **AV 1**, **AV 2** or **AV 3** (option).
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 (option)

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 connect to Euro scart socket, the set will switch to **AV 1** mode automatically. But if you want to keep on watching TV mode, press the **▲ / ▼** or **NUMBER** buttons.

Otherwise press the **TV/AV** button on the remote control handset to select **AV 1**. The VCR playback picture appears on the screen.

You can also record programmes received by the TV on video tape.

**Note :** Signal type RGB, i.e. the signals red, green and blue can only be selected for the Euro scart socket. These signals are transmitted, for example, by a computer, pay TV decoder, game machine or photo CD unit, etc.



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## Connection of external equipment

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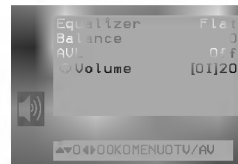
### Headphone socket (option)

Insert the headphone plug to the headphone socket of the set.  
You can listen to the sound through the headphone and the TV's speakers. To adjust the headphone volume, press the ▲ / ▼ button to select **Volume** then press the ◀ / ▶ button in the Sound menu. See the 'Sound adjustment' section.

If you press the **MUTE** button, only the sound from the TV's speakers are switched off.

In some models, when a programme is received in dual language, you can select a language (**DUAL I**, **DUAL II** or **DUAL I+II**) for the sound from the headphone regardless of that from the TV's speakers. In the Sound menu, press the ▲ / ▼ button to select **Volume** then **I/II** button to select the desired language; **I**, **II** or **I II**.

At this time if the set is in AV mode, the **I/II** button selects output sound; **L R**, **L L** or **R R**, in turn.



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## Troubleshooting check list

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### Symptoms

No picture, no sound

Sound OK, poor picture

Picture OK, poor sound

Picture blurred

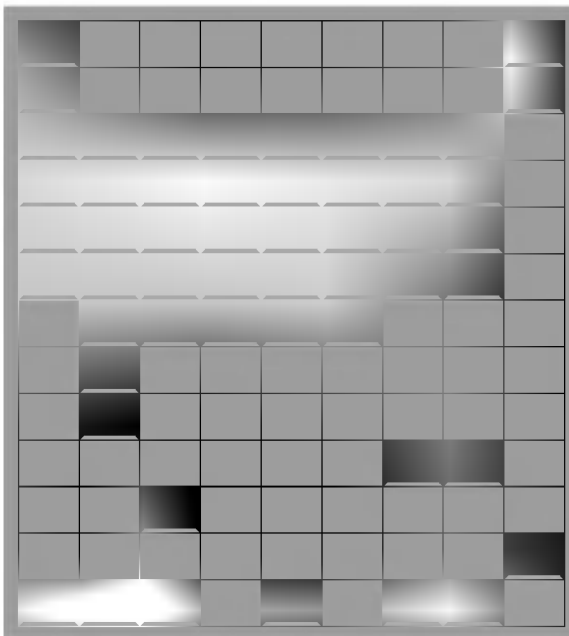
Lines or streaks in picture

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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