



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 :

P/NO : MFL51232809 (CW81A/B, MKJ30036812/13/14/15 TX, 486-403B/D)

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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.

DISCONNECTING DEVICE FROM MAINS

- Mains plug is the disconnecting device. The plug must remain readily operable

Warning

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

Do not place anything containing liquid on top of the set, this may cause a fire or could give an electric shock.

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 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.

Note:

To remove dirt or fingerprint on the surface of your TV, please rub with a line-free cloth supplied in the accessory. Do not pose too much pressure in cleaning so as to prevent any risk of damage to the product.

Connection of external equipment

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 the programme number 0 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.
2. If the VCR is connected to the AV sockets on the set, press the **TV/AV** button to select **AV** (or **AV1**), or **AV 2**.
3. Press the **PLAY** button on the VCR. 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 when connected to Euro scart socket, the set will switch to **AV** (or **AV1**) 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** (or **AV1**). You can also record programmes received by the TV on video tape.

Component in sockets (option)

1. Connect the COMPONENT video output sockets (Y Cb Cr, Y Pb Pr or Y B-Y R-Y) of the DVD player to the COMPONENT INPUT sockets (Y Pb Pr) on the set.
2. Connect the audio cable from the DVD player to AUDIO IN sockets of **AV** (or **AV1**).
3. Press the **TV/AV** button to select **COMPONENT**.
4. Press the **PLAY** button on the DVD player. The COMPONENT playback picture appears on the screen.

S-video / Audio in sockets (S-AV) (option)

When connecting the S-video socket of the VCR to the S-VIDEO socket of the set, the picture quality will be further improved.

1. Connect the S-video socket of the VCR to the S-VIDEO socket of the set.
2. Connect the audio cable from the VCR to the AUDIO sockets of the set.
3. Select **AV2** by pressing the **TV/AV** button repeatedly.
4. Press the **PLAY** button on the VCR. The VCR playback picture appears on the screen.

Note : If both S-VIDEO and VIDEO sockets have been connected to the VCR simultaneously, only the S-VIDEO can be received.

Headphone socket (option)

You can listen to the sound through the headphones. To adjust the headphone volume, press the **◀ / ▶** button.

If you press the **MUTE** button, the sound from the headphone's is switched off.

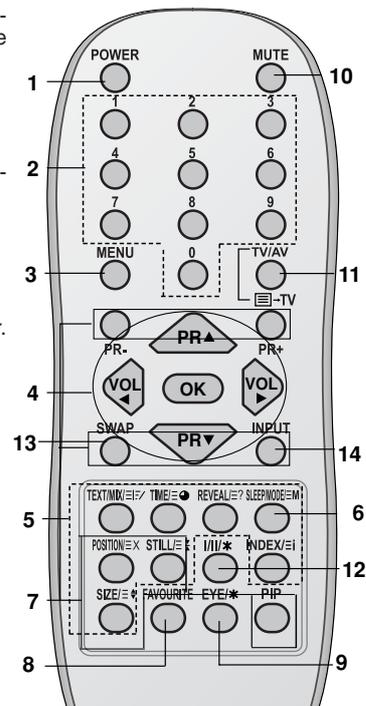
Location and function of controls

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.

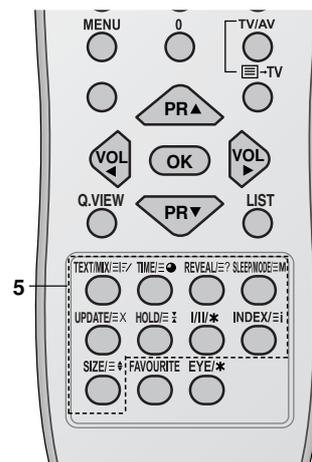
Remote control handset

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. **NUMBER BUTTONS**
switches the set on from standby or directly select a number.
3. **MENU**
selects a menu.
4. **▲ / ▼ (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
scans programmes automatically.
5. **◀ / ▶ (Volume Up/Down)**
adjusts the volume.
adjusts menu settings.
OK
accepts your selection or displays the current mode.
5. **TELETEXT BUTTONS (option)**
these buttons are used for teletext.
for further details, see the 'Teletext' section.
6. **SLEEP**
sets the sleep timer.
7. **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.

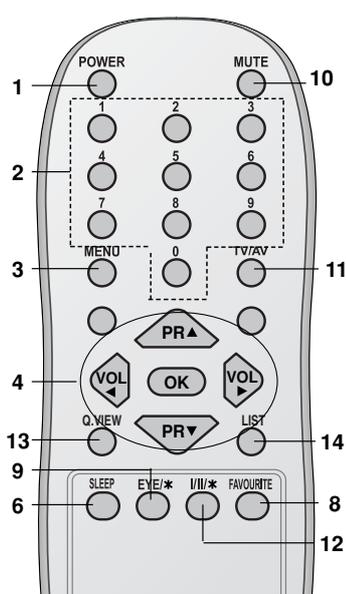


(With TELETEXT / PIP)



(With TELETEXT / Without PIP)

Location and function of controls



- 8. FAVOURITE**
selects a favorite programme.
- 9. EYE/* (option)**
switches the eye function on or off.
- 10. MUTE**
switches the sound on or off.
- 11. TV/AV**
selects TV or AV or Component mode.
switches the set on from standby.
exits the Teletext mode.
- 12. I/II/***
selects the language during dual language broadcast.
selects the sound output (option).
- 13. Q.VIEW (or YELLOW)**
returns to the previously viewed programme.
- 14. LIST (or BLUE)**
displays the programme table.

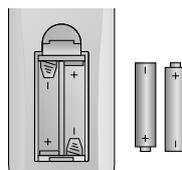
* : No function

(Without TELETEXT / PIP)

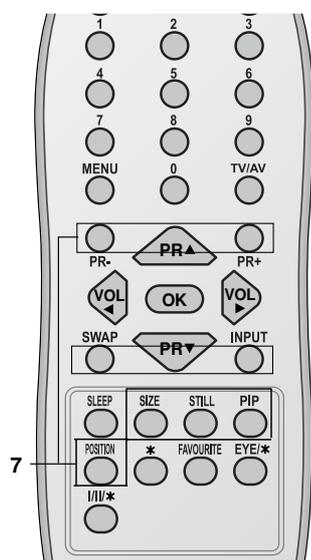
COLOURED BUTTONS : These buttons are used for teletext (only TELETEXT models) or programme edit.

Battery installation

The remote control handset is powered by two AAA 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.



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.



(With PIP / Without TELETEXT)

Location and function of controls

Front panel

- **MAIN POWER (ON/OFF)**
switches the set on or off.
 - **POWER/STANDBY INDICATOR**
illuminates brightly when the set is in standby mode.
dims when the set is switched on.
 - **REMOTE CONTROL SENSOR**
Note : Only use the supplied remote control handset. (When you use others, they will not be able to function.)
 - **MENU**
selects a menu.
- OK**
accepts your selection or displays the current mode.
 - ◀ / ▶ (Volume Down/Up)**
adjusts the volume.
adjusts menu settings.
 - ▲ / ▼ (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.

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**, **▲ / ▼**, **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.
Q.VIEW (or YELLOW)

Press the **Q.View (or YELLOW)** 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**, **◀ / ▶**, **I/II/★(option)**, button.

On screen language selection

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

1. Press the **MENU** button and then **▲ / ▼** button to select the Special menu.
2. Press the **▶** button to select **Language**.
3. Press the **▶** button and then **▲ / ▼** button to select your desired language.
All the on screen displays will appear in the selected language.
Press the **OK** or **◀** button to select the Special menu.
4. Repeatedly press the **MENU** 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

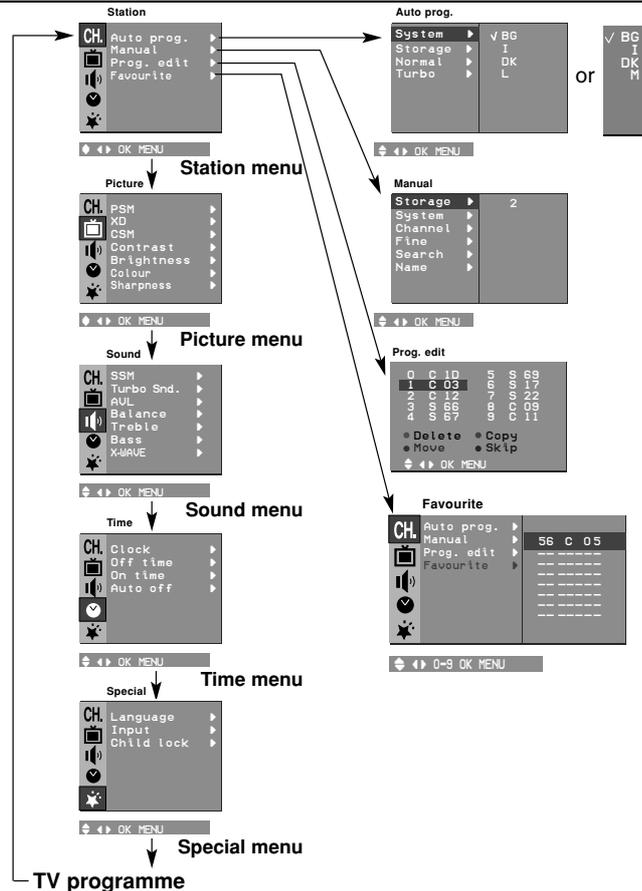
1. Press the **MENU** button and then **▲ / ▼** button to display each menu.
2. Press the **▶** button and then **▲ / ▼** button to select a menu item.
3. Press the **▶** button to display the sub menu or the pull-down menu.
4. Change the setting of an item in the sub or pull-down menu with the **◀ / ▶** or **▲ / ▼**.
You can move to the higher level menu with

the **OK** or **◀** button and to move to the lower level menu press the **▶** button.

Note :

- a. In the teletext mode, menus are not displayed.
- b. In some models, **Turbo Snd.**, **AVL**, **Balance**, **X-WAVE** or **Treble**, **Bass** will not display in the Sound menu.
- c. In some models, **Language**, **Game** will not display in the Special menu..

On screen menus



Setting up TV stations

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.

System:

- BG** : PAL B/G, SECAM B/G (Europe/East Europe)
- I** : PAL I/II (U.K./Ireland)
- DK** : PAL D/K, SECAM D/K (East Europe)
- L** : (SECAM L/L' (France) (option)
- M** : (USA/Korea/Philippines) (option)

Note :

- a. **Turbo search** is faster than **Normal search** and in some models, these searches will automatically store all receivable stations.
- b. If the programmed station has poor quality and sound, select the system again in the

Manual programme 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.

Booster (option)

In some models, **Booster** is an optional function. Only a set with **Booster** can perform this function.

Fine tuning

Normally fine tuning is only necessary if reception is poor.

The finely tuned programme will be indicated by yellow number during programme selection.

Setting up TV stations

Programme edit

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

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, and 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.

Repeatedly press the **MENU** button to return to normal TV viewing.

Favourite programme

This function lets you select your favourite programmes directly.

Repeatedly press the **FAVOURITE** button to select stored favourite programmes.

Calling the programme table

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

Note :

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

Picture adjustment

Note: Picture menu options are not available for the RGB input source.

PSM (Picture Status Memory)

The picture **Dynamic**, **Standard**, **Mild** and **Game** are programmed for good picture reproduction at the factory and cannot be changed.

XD

You can enjoy the vivid and hi-definition picture with LG's excellent Digital Reality processor technology.

Eye (option)

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 :

- a. The eye function is automatically switched off.
- b. EYE function is not available for RGB input source.

Picture adjustment

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

Sound adjustment

SSM (Sound Status Memory)

You can select your preferred sound setting; Flat, Music, Movie, Sport and User.

Repeatedly press the **MENU** button to return to normal TV viewing.

The sound **Flat**, **Music**, **Movie** and **Sports** are programmed for good sound reproduction at the factory and cannot be changed.

Turbo sound selection

When this function is on, the sound will be more emphasized and amplified than normal sound.

Sound adjustment

You can adjust balance, Treble, Bass, AVL (Auto Volume Leveler), AVL 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.

X-WAVE (Wireless Sound) (option)

You can also listen to the sound through the FM receiver.

Note:

- If the reception is poor or weak, select a different frequency.
- For best results, there should be no more than 5m (16.4ft) between the TV and FM Receiver.
- In certain areas, the FM transmitter ability may be weak, such as near a broadcast tower.
- The reception sensitivity may depend on the kinds of receiver (FM radio).

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 loud-speakers.

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

Stereo/Dual reception

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	MONO
Stereo	STEREO
Dual	DUAL I

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 is 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 by pressing the **I/II/★** button repeatedly.

- When NICAM mono is received, you can select **NICAM MONO** or FM MONO.
- When NICAM stereo is received, you can select **NICAM STEREO** or FM MONO. If the stereo signal is weak, switch to FM mono.
- 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.

Time Setting

Setting the On/Off timer

By using this function, the set automatically switches on or off at a preset time. You must set the time correctly before using the on/off time function.

Note :

- a. **On time** works only in standby mode.
- b. To view the remaining on/off time, select the

Time menu.

- c. When you switch the main power off, the **Clock** is reset .

Auto off

If you select **On** on the **Auto off** pull-down menu, the set will automatically switch itself to standby mode approximately ten minutes after a TV station stops broadcasting.

Other functions

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.

AV1 : VCR connected to the Euro scart socket or **AV IN 1** sockets on the set

AV2 : VCR connected to the **AV IN 2** sockets on the set(option).

S-VIDEO : S-VIDEO socket of VCR connected to the Euro scart socket on the set (option)

COMPONENT : DVD Player connected to the **COMPONENT** sockets on the set (option).

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

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

Monitor Out

Note: If you connect **VIDEO IN** jack to the TV that is displayed **COMPONENT** mode, the second TV or the monitor displays **AV IN** mode.

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**(or **AV1**) 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.

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.

Degaussing

Due to the super large Tube in the set. The colour purity of the picture may be affected by other magnetic influences such as speakers. Stripes may appear on the screen or there may be colour patches.

Note : If you cannot adjust the screen condition by degaussing, try it again after about 4 minutes.

Games (option)

Game is an optional function, only a set with game can perform this function by using the remote control handset. You can enjoy the game by using the **GAME** owner's manual.

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 during the game.

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.

Repeatedly press the **SLEEP** button to select the number of minutes. The display **⌚** - - 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 **⌚** - - - 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.

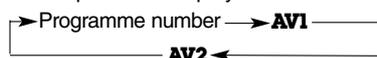
On and off

Press the **PIP** button to switch on the sub picture. 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.



Swapping between main and sub pictures

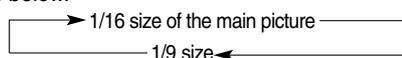
Press the **SWAP** button to exchange the main and sub pictures.

Programme selection for sub picture

Press the **PR +/-** buttons to select a programme for the sub picture. (In some models, the sub picture programme selection is available when the sub picture is TV mode.)

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.

Teletext (option)

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. 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 **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 (option)

Press the **[LIST]** 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 the same way.

Teletext (option)

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.

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 ≡X

Displays the TV picture on the screen while waiting for the new teletext page. The display (≡X) will appear at the top left hand corner of the screen. When the updated page is available then the display (≡X) 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, ▲ / ▼ or NUMBER buttons.

Press again to exit this function.

