

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 :

: MFL30441125-3/4 (CW62B, 30036801/2/3/4 TX,EN)

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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.

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

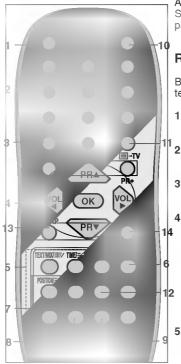
Never remove the back cover of the set as this can expose you to very high voltage and other hazards. If the set does not operate properly, unplug it and call your dealer.

Aerial

Connect the aerial cable to the socket 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.



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.

POWER

switches the set on from standby or off to standby.

NUMBER BUTTONS

Switches the set on from standby or directly select a number.

MENU

selects a menu.

▲ / ▼ (Programme Up/Down)

selects a programme or a menu item. switches the set on from standby. scans programmes automatically.

✓ / ► (Volume Up/Down)

adjusts the volume.

adjusts menu settings.

OK

accepts your selection or displays the current mode.

TELETEXT BUTTONS (option)

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

6. SLEEP

sets the sleep timer.

PIP BUTTONS (option)

PIP

switches the sub picture on or off.

PR +/selects a programme for the sub picture.

alternates between main and sub picture.

selects the input mode for the sub picture. SIZE

adjusts the sub picture size.

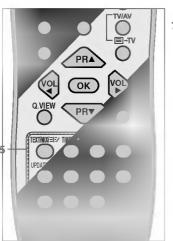
STILL

freezes motion of the sub picture.

POSITION

relocates the sub picture in clockwise direction.

(With TELETEXT / PIP)



(With TELETEXT / Without PIP)

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 mode. switches the set on from standby. exits the Teletext mode(option).

12. I/II/*

selects the language during dual language broadcast. selects the sound output (option).

13. Q.VIEW (or SWAP)

returns to the previously viewed programme.

14. LIST (or INPUT)

displays the programme table.

* : No function

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

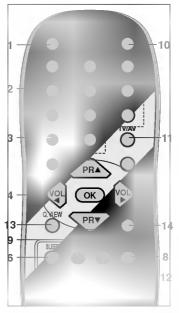
Battery installation

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 (\oplus and \odot) 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.



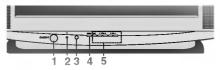
(Without TELETEXT / PIP)



(With PIP / Without TELETEXT)

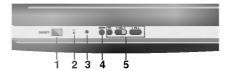
Front panel

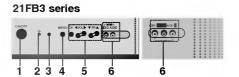
21FS4 series





21FS2 series



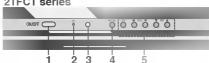


21FX5 series

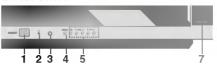




21FC1 series







21FA3 series



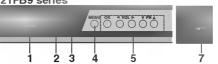




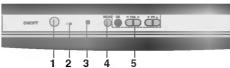
21FB5 series



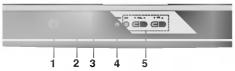
21FB9 series



21FS6 series



21CC2 series



15Q9 series



1. MAIN POWER (ON/OFF)

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

Note: Only use the supplied remote control handset. (When you use others, they won't be able to function.)

4. MENU (option)

selects a menu.

5. OK (option)

accepts your selection or displays the current mode

◀ / ► (Volume Up/Down) (option)

adjusts the volume. adjusts menu settings.

▲ /▼ (Programme Up/Down) (option)

selects a programme or a menu item. switches the set on from standby.

6. AUDIO (or AUDIO-L/R)/VIDEO IN SOCKETS (AV IN2) (option)

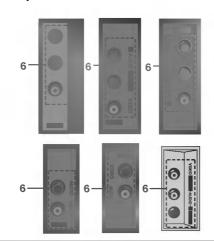
Connect the audio/video out sockets of external equipment to these sockets.

7. EYE (option)

adjusts picture according to the surrounding conditions.

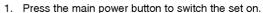
Note: Shown is a simplified representation of front or side panel. What is shown here may be somewhat different from your set.

Side panel



Basic operation

On and off



- 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
- 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 \blacktriangle / \blacktriangledown or NUMBER buttons.

Volume adjustment

Press the ◀ / ▶ button to adjust the volume.

Q.VIEW (or SWAP)

Press the **Q.View (or SWAP)** button to view the last programme you were watching.

Mute function

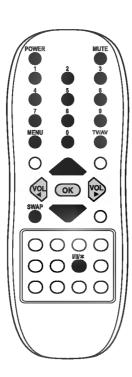
Press the **MUTE** button. The sound is switched off and the display \mathbb{R} appears.

You can cancel it by pressing the MUTE, ◀ / ▶, I/II/★(option), button.

On screen language selection (option)

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

- Press the MENU button and then ▲ / ▼ button to select the Special menu.
- 2. Press the ▶ button to select **Language**.
- 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.
- 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.

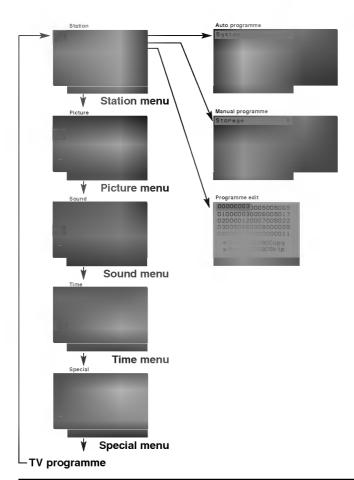
Menu selection

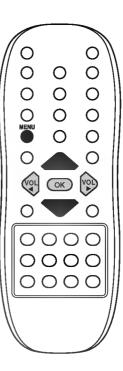
- Press the **MENU** button and then ▲ / ▼ button to display each
- Press the ▶ button and then ▲ / ▼ button to select a menu item.

 Press the ▶ button to display the sub menu or the pull-down
- 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, the Normal search will not display, only the Start will display in the Auto programme menu.
 c. In some models Game, Booster or Degauss will not display.
 d. In some models, the Language, X-WAVE will not display.





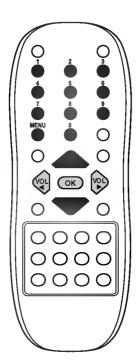


Up to 100 TV stations can be stored by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the \blacktriangle / \blacktriangledown or NUMBER buttons to scan the stations you programmed. Stations can be tuned using automatic or manual modes.

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.

- Press the MENU button to select the Station menu.
- Press the ▶ button and then ▲ / ▼ button to select Auto pro-
- gramme.
 Press the ▶ button to display the Auto programme menu.





Press the ▶ button. Select a TV system with the ▲ / ▼ button

- Press the ▶ button. Select a TV system with the ▲ / ▼ button on the **System** pull-down menu; **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)

 Press the ◀ button.

 Press the ▲ J ▼ button to select **Storage from**.

 Press the ► button. Select the beginning programme number with the ◀ / ▶ button or NUMBER buttons on the **Storage from** pull-down menu. Any number under 10 is entered with a numeric **'0'** in front of it, i.e. **'05'** for 5.

 Press the **OK** button
- Press the **OK** button.

 Press the **A** / **V** button to select **Normal. search. Option:** In some models, you can only select **Start**.

If the programmed station has poor quality and sound, select the system again in the **Manual programme** menu.

Press the ▶ button to begin auto programming.





All receivable stations are stored. The station name is stored for stations which broadcast VPS (Video Programme Service), PDC (Programme Delivery Control) or TELETEXT data. If no station name can be assigned to a station, the channel number is assigned and stored as C (V/UHF 01-69) or S (Cable 01-47), followed by a number.

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.

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

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.

- Press the MENU button to select the Station menu.
- 2. Press the ▶ button and then ▲ / ▼ button to select Manual programme.

 Press the ▶ button to display the Manual programme



- Press the ▲ / ▼ button to select **Storage**.
 Press the ► button to select the programme number. Select the desired programme number (0 to 99) with the ◀ / ► button or NUMBER buttons on the **Storage** pull-down menu. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05'

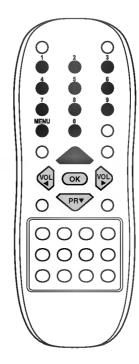
- for 5.
 6. Press the OK button.
 7. Press the ▲ / ▼ button to select System.
 8. Press the ▶ button. Select a TV system with the ▲ / ▼ button on the System pull-down menu;
 BG : PAL B/G, SECAM B/G (Europe/East Europe)
 I : PAL I/II (U.K./Ireland)
 DK : PAL D/K, SECAM D/K (East Europe)
 L : SECAM L/L' (France)
 9. Press the OK or ◀ button.
 10. Press the ▲ / ▼ button to select Channel.
 11. Press the ▶ button. Press the ▲ / ▼ button to select V/UHF or Cable on the Channel pull-down menu.
 If possible, select the channel number directly with the number If possible, select the channel number directly with the number

- buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
 Press the OK or ◀ button.
 Press the ▲ / ▼ button to select Search.
 Press the ▶ button. Press the ◀ / ▶ button to commence searching on the Search pull-down menu. If a station is found the search will step. the search will stop.
- 15. Press the OK button to store it. The display Stored will appear.



- 16. To store another station, repeat steps 4 to 15.17. Repeatedly press the MENU button to return to normal TV viewing.

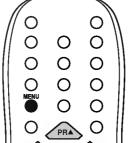








- 1. Repeat the 'Manual programme tuning' steps 1 to 3.
- 2. Press the ▲ / ▼ button to select Name.
- 3. Press the ▶ button on the **Name** pull-down menu.
- 4. Press the \blacktriangle button. You can use a blank, +, -, the numeric $\bf 0$ to $\bf 9$ and the alphabet A to Z.
 - With the $\stackrel{\cdot}{\blacktriangledown}$ button you can select in the opposite direction.
- 5. Select the position by pressing the \blacktriangleleft / \blacktriangleright button and then take your choice of the second character, and so on.
- 6. Press the **OK** button.
- 7. Repeatedly press the MENU button to return to normal TV viewing.



Booster (option)

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

If the reception is poor at the fringe area of the TV signal, select Booster to On.

- Repeat the 'Manual programme tuning' steps 1 to 3.
- 2. Press the ▲ / ▼ button to select **Booster**.
- 3. Press the ▶ button.
- 4. Press the ▲ / ▼ button to select On or Off on the Booster pulldown menu.
- Press the **OK** button.
- 6. Repeatedly press the MENU button to return to normal TV

Fine tuning

Normally fine tuning is only necessary if reception is poor.

- Repeat the 'Manual programme tuning' steps 1 to 3.
- Press the ▲ / ▼ button to select **Fine**.
 Press the ▶ button.
- 4. Press the ◀ / ▶ button to fine tune for the best picture and sound on the Fine pull-down menu.



- 5. Press the **OK** button.
- Repeatedly press the MENU button to return to normal TV

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



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.

- 1. Press the MENU button to select the Station menu.
- Press the ► button and then ▲ / ▼ button to select Programme edit.
- Press the button to display the Programme edit menu.



Deleting a programme

- 1. Select a programme to be deleted with the ▲ / ▼ or ◀ / ▶ button.
- 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.
- 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.
- Move the programme to the desired programme number with the ▲ / ▼ or ◀ / ► button.
- 4. Press the YELLOW button again to release this function.

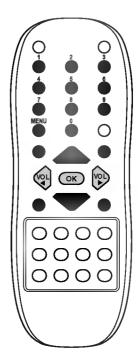


Skipping a programme number

- 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.



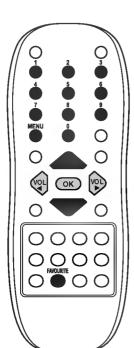




Favourite programme

This function lets you select your favourite programmes directly.

- 1. Press the **MENU** button to select the Station menu.
- 2. Press the ▶ button and then ▲ / ▼ button to select Favourite programme.
- 3. Press the ▶ button to display the **Favourite programme** menu.





- 4. Press the ▲ / ▼ button to select -- ----.
 5. Select a desired programme 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.
- 6. To store another programme, repeat steps 4 and 5. You can store up to 8 programmes.
- 7. Press the **OK** button.
- 8. Repeatedly press the MENU button to return to normal TV

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.

Displaying programme table

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



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.

Selecting a programme in the programme table

Select a programme with the ▲ / ▼ or ◀ / ▶ button.

Then press the **OK** button.

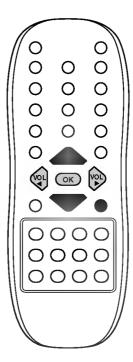
The set switches to the chosen programme number.

Paging through a programme table

There are 10 programme table pages which contain 100 programmes.

Pressing the ▲ / ▼ or ◀ / ▶ button repeatedly turns the pages.

Press the LIST (or INPUT) button to return to normal TV viewing.



Picture adjustment



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

PSM (Picture Status Memory)

- 1. Press the MENU button and then ▲ / ▼ button to select the Picture menu.
- Press the ► button to select PSM.
 Press the ► button and then ▲ / ▼ button to select a picture





- Press the **OK** or **◄** button.
- Repeatedly press the MENU button to return to normal TV

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

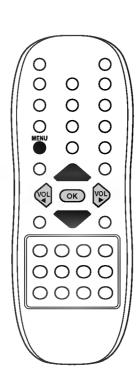


You can enjoy the vivid and hi-definition picture with LG's excellent Digital Reality processor technology.

1. Press the **MENU** button and then ▲ / ▼ button to select the Picture menu.



- Press the ► button and then ▲ / ▼ button to select XD.
 Press the ► button and then ▲ / ▼ button to select On or Off on the **XD** pull-down menu.
- Press the OK or ◀ button.
- 5. Repeatedly press the MENU button to return to normal TV



Picture adjustment

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:

EYE function is not available for RGB input source.

Picture adjustment

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

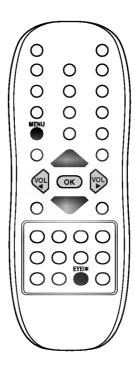
- Press the MENU button and then ▲ / ▼ button to select the Picture menu.
 Press the ▶ button and then ▲ / ▼ button to select Contrast, Brightness, Colour or Sharpness.
 Press the ▶ button and then ◀ / ▶ button to make appropriate



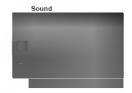
adjustments on the each sub menu. 4. Press the OK button to store it for the picture User.



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



Sound adjustment



SSM (Sound Status Memory)

You can select your preferred sound setting; Flat, Music, Movie or Sports and you can also adjust the sound frequency of equalizer.

- Press the **MENU** button and then ▲ / ▼ button to select the Sound menu.
- Press the ▶ button to select **SSM**.

 Press the ▶ button and then ▲ / ▼ button to select a sound setting on the SSM pull-down menu.





a. Press the ▶ button in **User** to display the **User** sub menu.



- 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**.

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

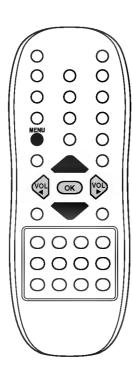
When this function is on, the sound will be more emphasized and amplified than normal sound.

1. Press the **MENU** button and then ▲ / ▼ button to select the

- Sound menu.
- Press the ▶ button and then ▲ / ▼ button to select Turbo
- Press the ▶ button and then ▲ / ▼ button to select On or off



- Press the **OK** or **◄** button.
- Repeatedly press the MENU button to return to normal TV viewing.



Sound adjustment

Sound adjustment

You can adjust balance, 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.

- Press the MENU button and then ▲ / ▼ button to select the Sound menu.
- Press the ▶ button and then ▲ / ▼ button to select the desired sound item; AVL or Balance.
- 3. Make desired adjustment with the ◀ / ▶, ▲ / ▼ or OK button on each pull-down menu.
 4. Press the **OK** button.
- 5. Repeatedly press the MENU button to return to normal TV viewing.

X-WAVE (Wireless Sound) (option)

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

- 1. Press the **MENU** button and then ▲ / ▼ button to select the Sound menu.
- Press the ▶ button and then ▲ / ▼ button to select **X-WAVE**.
- Press the ▶ button and then ▲ / ▼ button to select Set Frequency.
- 4. Press the ▶ button to tune in a frequency on the X-wave menu.
 5. Use the number 0 to 9 or press the ◀ / ▶ button to match the TV's frequency and the FM receiver's.

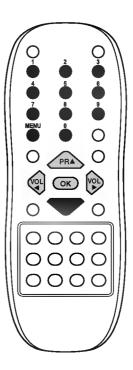




Note:

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





Sound adjustment

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 loudspeaker.

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

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 loud-speakers.

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

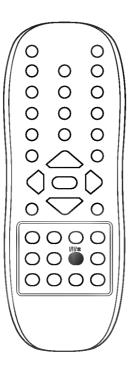
NICAM reception (option)

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

 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 clock

- Press the **MENU** button and then ▲ / ▼ button to select the Time menu.
- Press the ► button to select Clock.
- Press the ▶ button and then ▲ / ▼ button to adjust the hour.





- Press the **OK** button.
- 6. Repeatedly press the **MENU** button to return to normal TV viewing.

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.

- Press the **MENU** button and then ▲ / ▼ button to select the Time menu.
- Press the ▶ button and then ▲ / ▼ button to select Off time/On time.
- Press the ▶ button and then ▲ / ▼ button to adjust the hour.



- Press the ▶ button and then ▲ / ▼ button to adjust the minute. *Only On time function*; Press the ▶ button and then ▲ / ▼ button to adjust programme number and volume level.
- Press the **OK**.
- Repeatedly press the **MENU** button to return to normal TV viewing.

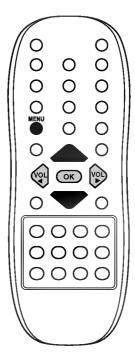
Note:

- On time works only in standby mode. a.
- To view the remaining on/off time, select the Time menu.
- When you switch the main power off, the Clock is reset .

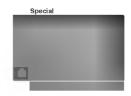
If you select On on the Auto sleep pull-down menu, the set will automatically switch itself to standby mode approximately ten minutes after a TV station stops broadcasting.

- Press the **MENU** button and then ▲ / ▼ button to select the
- Press the ▶ button and then ▲ / ▼ button to select **Auto sleep**. Press the ▶ button and then ▲ / ▼ button to select **On** or **Off** on the **Auto sleep** pull-down menu. Press the **OK** or ▼ button.
- 5. Repeatedly press the MENU button to return to normal TV viewing.





Other functions



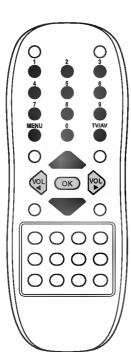
TV and AV modes

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.

- Press the **MENU** button and then ▲ / ▼ button to select the Special menu.
- Press the ▶ button and then ▲ / ▼ button to select **Input**.

 Press the ▶ button and then ▲ / ▼ button to select **TV**, **AVI**, AV2(option), COMPONENT (option) on the Input pull-down





AV1: VCR connected to the Euro scart socket 1 on the set. AV2: VCR connected to the AV IN 2 sockets on the set(option). COMPONENT: DVD Player connected to the COMPONENT sockets on the set (option).

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

In AV mode, to return to TV mode, press the \blacktriangle / \blacktriangledown or NUMBER

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.

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.

- Press the **MENU** button and then ▲ / ▼ button to select the Special menu.
- Press the ► button and then ▲ / ▼ button to select **Child lock**.

 Press the ► button and then ▲ / ▼ button to select **On** or **Off** on the **Child lock** pull-down menu. Press the **OK** or **◄** button.
- Repeatedly press the **MENU** 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.

Other functions

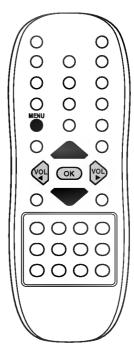
Degaussing

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.

- 1. Press the **MENU** button and then ▲ / ▼ button to select the Special menu.
- Press the ▶ button and then ▲ / ▼ button to select **Degauss**.
 Press the ▶ button and then ▲ / ▼ button to select **On** on the Degauss pull-down menu. After the degauss function works, On mode switches to Off mode automatically.
- 4. Press the **OK** or **◄** button.
- 5. Repeatedly press the MENU button to return to normal TV

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





Other functions



Games (option)

Game is an optional function, only a set with game can perform this function by using the remote control handset.

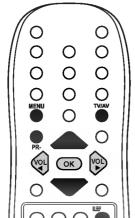
- 1. Press the MENU button and then ▲ / ▼ button to select the

- Press the ▶ button and then ▲ / ▼ button to select **Game**.

 Press the ▶ button to enter the game mode.

 Press the ▲ / ▼ button to select a game and then press the OK

You can enjoy the game by using the GAME owner's manual.



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Note:

- a. Press the TV/AV or MENU button to return to the normal TV
- 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 \bigcirc - - 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.
- To cancel the sleep time, repeatedly press the SLEEP button until the display Ø --- appears.
- When you switch the set off, the set releases the preset sleep

PIP operation (option)

Option:

 \mbox{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 ${\bf SIZE}$ button to select the desired sub picture size. The sub picture appears as below.



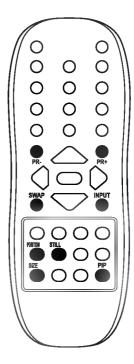
Note: When the sub picture size is 1/2 of the main picture, the picture quality might get poor.

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 sub picture moves clockwise.

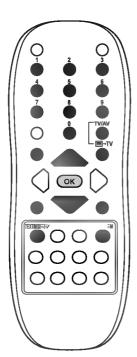


Teletext (option)

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 TEXTor TV/AV button to switch off teletext. The previous mode reappears.

SIMPLE text

Page selection

- 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 reenter the correct page number.
- The ▲ / ▼ button can be used to select the preceding or following page.

Programming a colour button in LIST mode (option)

Press the 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.

- Press a coloured button.
- Using the NUMBER buttons, select the page you wish to pro-
- gramme.

 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.
- The three other coloured buttons are programmed in the same

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

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

Direct page selection

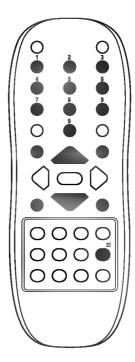
Corresponding to the SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

FASTEXT

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

Page selection

- Press the 🔳 button to select the index page.
- You can select the pages which are colour coded along the bottom line with the same coloured buttons.
- 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.
 The ▲ / ▼ button can be used to select the preceding or fol-
- lowing page.



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.



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

Press this button again to return to the normal display.



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 the display () will change to the page number. Press this button to view the updated teletext page.



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.



Displays the teletext pages superimposed on the TV pic-

To switch the TV picture off press this button again.



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.



Connection of external equipment

You can connect additional equipment, such as VCRs, camcorders etc. to your set.

What is shown here may be somewhat different from your set.

Aerial socket

- Connect the RF out socket of the VCR to the aerial socket on the back of the set.
- Connect the aerial cable to the RF aerial in socket of the VCR.
- Store the VCR channel on the programme number 0 using the 'Manual programme tuning' section.
- 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.
- 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. 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.

Note: If you have a mono VCR, connect the audio cable from the VCR to the AUDIO L/MONO socket of the set.

Euro scart socket

- Connect the Euro scart socket of the VCR to the Euro scart socket of the set.
- 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 AVI) mode automatically. But if you want to keep on watching TV mode, press the ▲ / ▼ or NUMBER buttons.

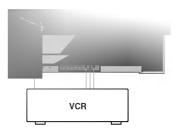
Otherwise press the ${\bf TV/AV}$ button on the remote control handset to select ${\bf AV}$ (or ${\bf AVI}$). The VCR playback picture appears on the screen.

You can also record programmes received by the TV on video

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 pay TV decoder, game machine or photo CD unit, etc.



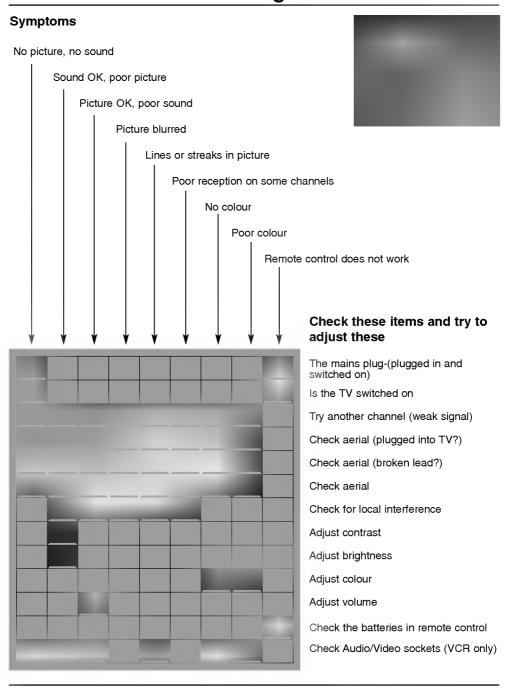






NOTE

Troubleshooting check list





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