

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: MFL58510503 (CW-62A/B/E, Rev. 04)

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30

Headphone socket (option)

Troubleshooting check list

Important Precautions

This unit has been engineered and manufactured to assure your personal safety, however improper use may result in potential electrical shock or fire hazards. In order to allow the proper operation of all safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing. Keep it in an accessible place for future reference.

On Safety

The power supply cord is used as the main disconnect device. Ensure that the socket-outlet is easily accessible after installation.

Operate the TV set only from a power source indicated in the specifications of this manual or listed on the TV set. If you are not sure what type of power supply you have in your home, consult with your dealer.

Overloaded AC outlets and extension cords are dangerous. So are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

Hands must be dry when holding the power plug to avoid an electric shock.

Do not damage the power cord by disassembling, bending, pulling or heating up, fire or electric shock.

Make sure to completely insert the power plug. Insecure connections can cause fire.

Do not Open the TV set

- There are no user serviceable components inside.
- There are Dangerous High Voltages inside, even when the power is Off.
- Contact your dealer if the TV is not operating properly.

To Avoid Personal Injury:

- Do not place the TV set on a sloping shelf unless properly secured.
- Use only fixed wooden stand. The TV shall be positioned 5cm behind the front edge of an open fronted with 1cm free space along the sides top and 5cm depth behind the TV.
- Do not try to roll a stand with small casters across thresholds or deep pile carpets.

To Prevent Fire or Hazards:

- Always turn the TV set Off if you leave the room for more than a short period of time. Never leave the TV set On when leaving the house.
- Keep children from dropping or pushing objects into the TV cabinet openings. Some internal parts carry hazardous voltages.
- Do not add accessories that have not been designed for this TV set.
- During a lighting storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and external socket.
- Do not bring magnetic devices such as magnets or motors near the picture tube.

Important Precautions

On Installation

Do not allow anything to rest upon or roll over the power cord, and do not place the TV set where the power cord is subject to damage.

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.

Service

Do not attempt to service the TV set yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Aeria

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

Location

Do not use this TV near water such as near bathtub, washbowl, kitchen sink, laundary tub, in a wet basement, or near a swimming pool.

TV set are provided with ventilation openings in the cabinet to allow the release of heat generated during operation. If these openings are blocked, built-up heat can cause failures which may result in a fire hazard. There fore,

- The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table cloths, curtains, etc.
- Never place the TV set in a built-in enclosure unless proper ventilation is provided.
- No naked flame source such as lighted candles should be placed on the TV.
- Never place the TV set near or over a radiator or heat source.
- Position your set so that no bright light or sunlight falls directly onto the screen.

On Cleaning

- Unplug the TV set before cleaning the face of the TV screen.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the TV screen because overspray may cause electric shock.

On Repacking

 Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it in its original material.

Caution: Please do not use stabilizer with TV set as this set has inbuilt voltage stabilizer. Use of Inferior quality stabilizer may damage the set.

Battery installation

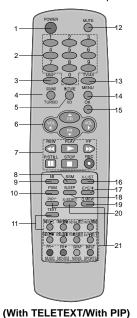
The remote control handset is powered by two AA/AAA type batteries. To load the batteries, turn the remote control handset over and open the battery compartment. Install two batteries as indicated by the polarity symbols (\oplus and \odot) marked inside the compartment.



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.

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 previous 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. MM/* (option)

Select music mode.

4. TURBO SOUND/* (option)

Select turbo sound button.

5. XD PICTURE OR XDP/* (option)

Select XD picture

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.

7. VCR BUTTONS (option)

control a LG video cassette recorder.

8. SSM (Sound Status Memory)

recalls your preferred sound setting.

9. I/II (option)

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

10. PSM (Picture Status Memory)

recalls your preferred picture setting.

11. TELETEXT BUTTONS (option)

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

2. MUTE

switches the sound on or off.

13. TV/AV

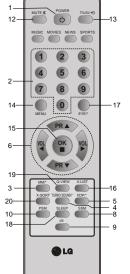
selects TV or AV mode. switches the set on from standby.

14. MENU

selects a menu.

15. OK

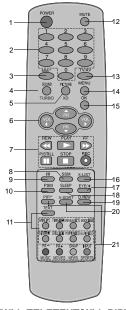
accepts your selection or displays the current mode.



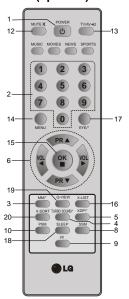
(option-1)

(Without TELETEXT/Without PIP) (option-2)

Location and function of controls



(With TELETEXT/With PIP) (option-1)



16. X-LIST

displays the programme table.(X-SORT LIST)

17. EYE/*(option)

switches the eye function on or off.

sets the sleep timer.

returns to the previously viewed programme.

20. X-SORT

switches the X-SORT On/Off.

21. 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.

SŤILL

freezes motion of the sub picture.

POSITION

relocates the sub picture in clockwise direction.

switches on or off the programme scan mode through 4 or 9 sub pictures.

COLOURED BUTTONS

These buttons are used for teletext (only TELETEXT models) or programme edit. X-LIST and also used for selecting X-SORT mode when X-SORT is on.

When X-SORT is on:

MUSIC (RED KEY) : selects MUSIC channels group. MOVIES (GREEN KEY): selects MOVIES channels group. NEWS (YELLOW KEY) : selects NEWS channels group. SPORTS (BLUE KEY) : selects SPORTS channels group.

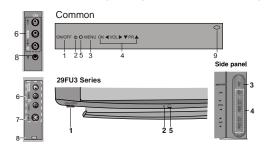
1. Some keys in the remote can be non-functional, these keys are used in other models, they are marked with *.

(Without TELETEXT/Without PIP) (option-2)

Location and function of controls

FRONT PANEL / SIDE PANEL (Option)

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



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.

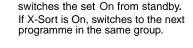
MENU selects a menu.



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. If X-Sort is On, switches to the next



REMOTE CONTROL SENSOR Note: Only use the supplied remote control handset. (When you use others, they will not

be able to function.)

AUDIO/VIDEO IN SOCKETS (AV IN2) (option) Connect the audio/video out sockets

of external equipment to these sockets. S-VIDEO/AUDIO IN SOCKET(S-AV) (option) Connect the video out socket of an S-VIDEO VCR to the S-VIDEO socket.

Connect the audio out sockets of the S-VIDEO VCR to the audio sockets as **HEADPHONE SOCKET (option)**

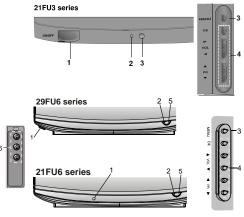
Connect the headphone plug to this socket.

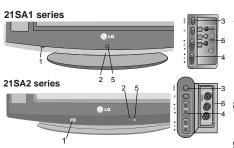
EYE (option) adjusts picture according to the surrounding conditions.

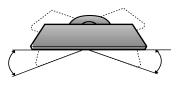


This feature is available with 21SA1model only.

After installing the TV, you can adjust the TV set manually to the left or right direction by 15 degrees to suit your viewing position.







Basic operation

On and off

- 1. Press the main power button to switch the set on.
- 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.
- 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 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

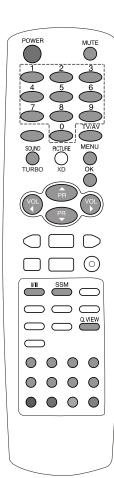
You can cancel it by pressing the **MUTE**, **◄ / ▶**, **SSM**, **I/II** (option), TURBO SOUND button.

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.
- Press the ▶ button to select **Language**.

 Press the ▶ button and then ▲ / ▼ button to select your desired
 - 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.

 Press the ▶ button and then ▲ / ▼ button to select a menu item.

 Press the ▶ button to display the sub menu or the pull-down

menu.
Change the setting of an item in the sub or pull-down menu with

✓ / ▶ or ▲ / ▼.
You can move to the higher level menu with OK or ⋖ button and to move to the lower level menu press the ▶ button.

- to move to the lower level menu press the P batton.

 Note:

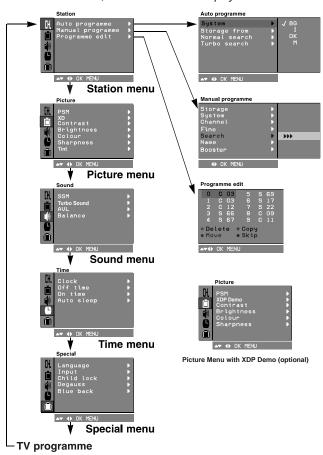
 a. In the teletext mode, menus are not displayed.

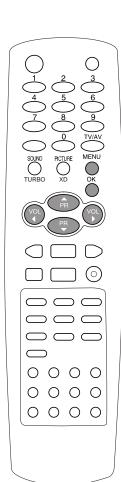
 b. In some models, the Normal Turbo search will not display, only the Start will display in the Auto programme menu.

 c. In some models, Tilt, Game, Booster or Degauss will not display.

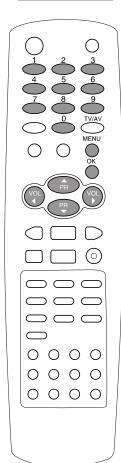
 d. In some models, the Language will not display.

- e. In some models, XDP Demo 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.

Note: In some models up to 200 TV stations can be stored.

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.



- 4. Press the ▶ button. Select a TV system with the ▲ / ▼ button on the System pull-down menu;
 BG: (Asia/New Zealand/M.East/Africa/Australia)
 I: (Hong Kong/South Africa)
 DK: (East Europe/China/Africa/CIS)
 M: (USA/Korea/Philippines) (option)
 5. Press the ◀ button.
 6. Press the ▶ button. Select Storage from.
 7. 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' (or '00') in front of it, i.e. '05' (or '005') for 5.
 8. Press the OK button.
 9. Press the ▲ / ▼ button to select Normal or Turbo search.

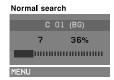
Option: In some models, you can only select Start.

Note

- Turbo search is 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.

 10. Press the ▶ button to begin auto programming. All receivable stations are stored



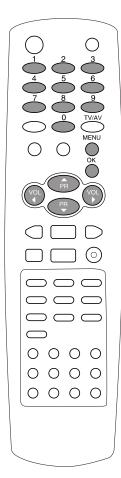


To stop auto programming, press the **MENU** button. When auto programming is completed, the **Programme edit** menu appears on the screen. See the 'Programme edit' section

to edit the stored programme.

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.
- Press the ▶ button and then ▲ / ▼ button to select **Manual** programme.
- Press the button to display the Manual programme menu.



- 4. Press the ▲ / ▼ button to select **Storage**.
 5. 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' (or '00') in front of it,

- i.e. '05' (or '005') for 5.

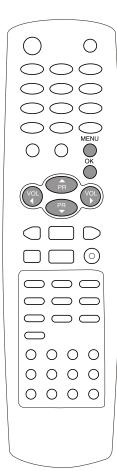
 Press the **△** / **▼** button to select **System**.

 Press the **△** / **▼** button. Select a TV system with the **△** / **▼** button on the System pull-down menu;
 - **BG**: (Asia/New Zealand/M.East/Africa/Australia)
 - (Hong Kong/South Africa)
 - DK: (East Europe/China/Africa/CIS)
 - **M**: (USA/Korea/Philippines) (option)
- 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 buttons. Any number under 10 is entered with a numeric '0' (or
- '**00**') in front of it, i.e. '**05**' (or '**005**') for 5. 12. Press the **OK** or **◄** button.
- searching on the Search pull-down menu. If a station is found 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.





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.
- Press the ◄/▶ button step by step to fine tune for the best picture and sound.



- 4. Press the OK button.
- Repeatedly press the MENU or

 button to return to normal TV viewing.

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

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 on the **Name** pull-down menu.
- 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.

- Select the position by pressing the ◀ / ▶ button and then take your choice of the second character, and so on.
- 6. Press the **OK** button.
- Repeatedly press the MENU button to return to normal TV viewing.

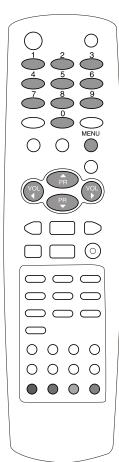
Booster (option)

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 TV signal, select **Booster** to **On**. When the picture condition is good, do not select **Booster** to **On**.

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





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. 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.
- B. 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.

Picture adjustment



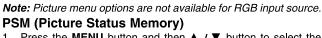


Picture Menu with XDP Demo (optional)

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- 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 setting on the **PSM** pull-down menu.



Picture Menu with XDP Demo (optional)

- 4. Press the **OK** or **◄** button.
 5. Repeatedly press the **MENU** button to return to normal TV viewing. You can also recall a desired picture (**Dynamic**, **Standard**, **Mild** GAME or **User**) with **PSM** button on the remote control. The picture Dynamic, Standard, Mild, GAME are programmed for good picture reproduction at the factory and cannot be changed.

XDP Demo (optional)

- Press the MENU button and ▲/▼ to select the picture menu.
 Press the ▶ to select XDP Demo.

- Screen splits for Demo.
 Press MENU button for XDP Demo exit.

Picture adjustment

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

- 1. Press the MENU button and then ▲ / ▼ button to select the Picture menu.
- Press the ▶ button and then ▲ / ▼ button to select Contrast, Brightness, Colour, Sharpness or Tint (option).



Picture Menu with XDP Demo (optional)

3. Press the ▶ button and then ◀ / ▶ button to make appropriate adjustments on the each sub menu.



- Press the **OK** button to store it for the picture user. Repeatedly press the **MENU** button to return to normal TV viewing.

Note: Tint is applicable only for NTSC system.

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:

- a. The eye function is automatically switched Off. When PSM, XDP keys pressed or any of the picture settings are changed.
- b. EYE function is not available for RGB input source.

XD PICTURE / XDP selection (Option)

When this function is on, the picture will be more brilliant and distinct than normal picture.

Repeatedly press the XD PICTURE button to switch on or off.



XD On

(XD PICTURE/XDP ON)

(XD PICTURE/XDP OFF)

a. TURBO PICTURE/XD PICTURE function is not available for RGB input source.

Note:

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Sound adjustment





SSM (Sound Status Memory)

You can select your preferred sound settings **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.
- 2. Press the ▶ button to select SSM.
- Press the ▶ button and then ▲ / ▼ button to select a sound setting on the SSM pull-down menu.



Sound Frequency Adjustment

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



- ▲▼ ◆ OK MENU
- b. Select a sound band by pressing the ◀ / ▶ button.
- c. Make appropriate sound level with the ▲ / ▼ button.
- d. Press the \mathbf{OK} button to store it for the sound \mathbf{User} .

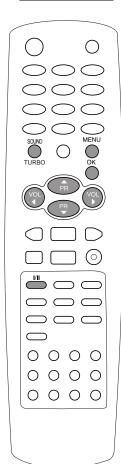
Repeatedly press the **MENU** button to return to normal TV viewing.

You can also recall a desired sound (**Flat, Music, Movies, Sports** or **User**) with **SSM** button on the remote control. The sound **Flat, Music, Movies**, and **Sports** are programmed for good sound reproduction at the factory and cannot be changed.

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

Sound adjustment





Sound adjustment

YoucanadjustBalance, AVL (Auto Volume Leveler), AVL automatically keeps on an equal volume level even if you change programmes.

- 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, Balance.
- Make desired adjustment with the ◀ / ▶, ▲ / ▼ or OK button on each pull-down menu.



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

Turbo sound selection (option)

When this function is on, the sound will be more emphasized and amplified than normal sound. Repeatedly press the **TURBO SOUND** button to switch on or off.

Turbo Sound Off

Turbo Sound On

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-
- speakers.
 Audio signal from audio R input is sent to left and right loud-speakers. $\mathbf{R}+\mathbf{R}$:

Sound adjustment

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

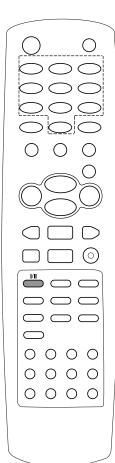
DUAL I+II sends a separate language to each loudspeaker.

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.

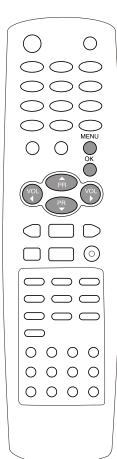
Sound output can be selected according to the type of received broadcast as follows by pressing the **I/II** button repeatedly.

- 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 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.



- 4. Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to adjust the minute.
- 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 on/off time function.

- Press the **MENU** button and then ▲ / ▼ button to select the Time menu.
- button and then ▲ / ▼ button to select Off time/On time.
- 3. 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.
- 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 Time menu.
- 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.
- Repeatedly press the **MENU** button to return to normal TV viewing.

X-SORT

You can select the different programmes and add them into different categories (Music, Movies, News, Sports).

Press X-SORT button on the remote switch On/Off the X-SORT function.

Press the coloured buttons to select the programme to desired

If X-Sort is On, switches to the next programme in the same group.

When X-SORT is On:

MUSIC (RED KEY)

MOVIES (GREEN KEY): Selects MUSIC channels group.

Selects MOVIES channels group.

Selects NEWS channels group. : Selects SPORTS channels group. SPORTS (BLUE KEY)

Adding a program to a desired category

- 1. Press the X-LIST button to display the list of the programme on the
- screen.

 2. Use ▲/▼ or ◄/► buttons to scrolls between the programmes and then press OK to select the desired programme.

 3. Press appropriate coloured key to add the selected programme.
- in the desired category. Press again the coloured buttons to FREE the programme from the X-Sort Categories.

X-Sort List

	<u> </u>	<u> </u>	LIST							
1	0	С	05	15	С	07				
11	1	С	04	16	С	23				
1:	2	С	09	17	С	24				
13	3	С	11	18	S	40				
1	4	С	16	19	S	45				
	Free									
	■ Music									
	News Sports									

- 4. Red button-Music programmes category.
- 5. Green button-Movies programmes category.
- 6. Yellow button-News programmes category.
- 7. Blue button-Sports programmes category.

Note: X-LIST, X-SORT keys works only in RF mode (TV mode)







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, AV1, AV2,

 AV3 (option) or COMPONENT (option) on the Input pull-down



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 (option) sockets of the set

COMPONENT: DVD Player connected to the COMPONENT

sockets on the set (option)

4. Repeatedly press the **MENU** button to return to normal TV view-

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

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

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 AVI 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.

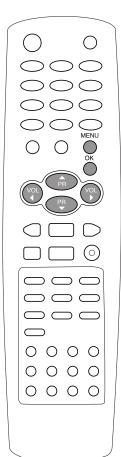
- Press the MENU button and then ▲ / ▼ button to select the Special menu.
- Press the ▶ button and then ▲ / ▼ button to select **Child lock**.

 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 appears on the screen if any button on the front panel is pressed while viewing the TV.

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





Blue back (option)

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

- Press the MENU button and then ▲ / ▼ button to select the Special menu.
- 2. Press the ▶ button and then ▲ / ▼ button to select **Blue back**.
- Press the ▶ button and then ▲ / ▼ button to select On or Off on the Blue back pull-down menu.
- 4. Press the **OK** or button.
- Repeatedly press the MENU button to return to normal TV viewing.

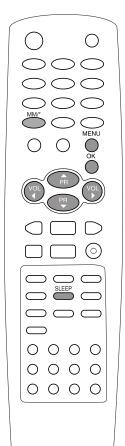
Degaussing (option)

Owing 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.

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

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





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 min-

Repeatedly 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 \bigcirc - appears.
- c. When you switch the set off, the set releases the preset sleep time.

MM/* (option)

You can hear music while the TV screen is Off using the function.

- 1. Press the MM/* button to start the music mode.
- 2. Press any key to exit from Music Mode except vol. keys.
- 3. Volume level can be changed (Vol+/Vol-) in music mode.

Music Mode On

PIP operation (option)

Option:

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

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

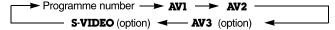
On and off

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 $\bf PR$ +/- button. The selected programme number is displayed just below the programme number of main picture.

Sub picture size

Repeatedly press the **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.

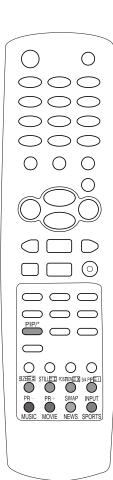
Sub picture position change

Press the **POSITION** button repeatedly until desired position is achieved. The sub picture moves clockwise.

Programme scan

This function enables you to search all the stored stations in 4 or 9 sub pictures mode only and see your favorite station by exchanging the main and sub pictures.

Press the **9/4 PIP** button to select 4 or 9 sub pictures. Only the selected 4 or 9 sub pictures search all the stored stations. Press the **9/4 PIP** button again to switch off these sub pictures.



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.



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** 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.

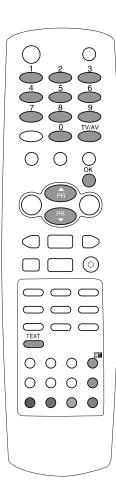
Programming a colour button in LIST mode (option)

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.
- 2. 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

 1. With the blue button you can progress from block to block.
- 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

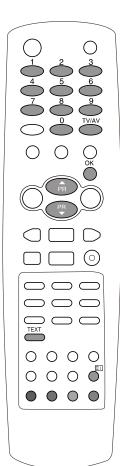
Corresponding to the SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

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 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 following page.
- 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.



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

Press this button again to return to the normal display.



UPDATE / POSITION

Displays the TV picture on the screen while waiting for the new teletext page. The display (\exists) 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 / STILL

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.

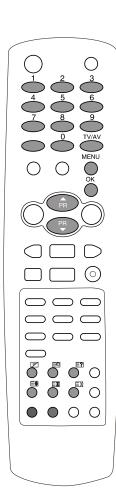
Note: When TV and text picture are displayed half and half of the screen, MIX function is not available.



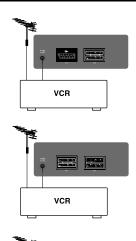
When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change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

Press again to exit this function.





Connection of external equipment



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

Here shown may be somewhat different from your set.

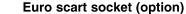
Aerial socket

- 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.
- 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)

- 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
- 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.
- 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.



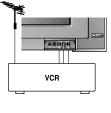
- Connect the Euro scart socket of the VCR to the Euro scart socket of the set.
- 2. Press the **PLAY** button on the VCR.

If your VCR outputs a switching voltage when connected to Euro scart socket, the set will switch to **AV 1** mode automatically. But if you want to keep on watching TV mode, press the **A** / ▼ or NUMBER buttons.

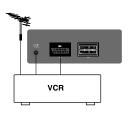
Otherwise press the **TV/AV** button on the remote control handset to select **AV 1**. The VCR playback picture appears on the screen

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

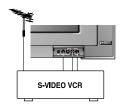
Note: Signal type RGB, i.e. the signals red, green and blue can only be selected for the Euro scart socket. These signals are transmitted, for example, by a pay TV decoder, game machine or photo CD unit, etc.



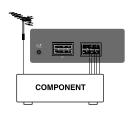




Connection of external equipment











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

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

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

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 COMPONENT (480i) to the COMPONENT INPUT sockets (Y PB PR) on the set.

 Connect the audio cable from the COMPONENT to AUDIO IN
- sockets of AV2.
- Press the TV/AV button to select COMPONENT.
 Press the PLAY button on the COMPONENT. The COMPONENT playback picture appears on the screen.

Headphone socket (option)

Only models which have a headphone socket can perform this

Insert the headphone plug to the headphone socket of the set. You can listen to the sound through the headphones.

If you press the MUTE button, the sound from the headphone's is

Troubleshooting check list

