



# 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 : 482-F-321 (1A, 224P TX, 486-395A)

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# Installation

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## Power

This set operates on an AC mains supply, the voltage is as indicated on the label on the back cover. Never apply DC power to the set. To protect your set from damage during thunderstorms, please pull out the mains plug and aerial plug.

## Warning

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

## Service

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

## Aerial

Connect the aerial cable to the socket marked  $75\Omega$  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.

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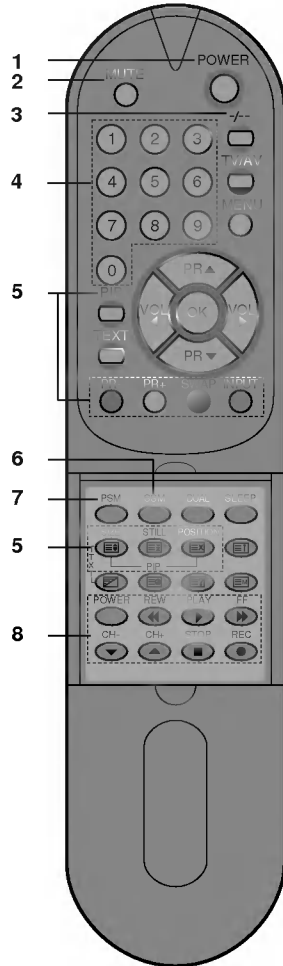
## Location and function of controls

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

### Remote control handset

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



- 1. POWER**  
switches the set on from standby or off to standby.
- 2. MUTE**  
switches the sound on or off.
- 3. UNIT**  
selects single or double digit.
- 4. NUMBER BUTTONS**  
switch the set on from standby or directly select a number.
- 5. PIP BUTTONS**
  - PIP**  
switches the sub picture on or off.
  - INPUT**  
selects the input mode for the sub picture.
  - SWAP**  
alternates between main and sub picture.
  - STILL**  
freezes motion of the sub picture.
  - POSITION**  
relocates the sub picture in clockwise direction.
  - SIZE**  
adjusts the sub picture size.
  - PR+/-**  
selects a programme for the sub picture.
- 6. SSM (Sound Status Memory)**  
recalls your preferred sound setting.
- 7. PSM (Picture Status Memory)**  
recalls your preferred picture setting.
- 8. VCR BUTTONS**  
control a LG video cassette recorder.

## Location and function of controls

**9. TV/AV**

selects TV or AV mode.

**10. MENU**

selects a menu.

**11. ▲ / ▼ (Programme Up/Down)**

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

**◀ / ▶ (Volume Down/Up)**

adjusts the volume.  
adjusts menu settings.

**OK**

accepts your selection or displays the current mode.

**12. TELETEXT BUTTONS (option)**

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

**13. DUAL**

selects the language during dual language broadcast.  
selects mono sound during stereo broadcast.

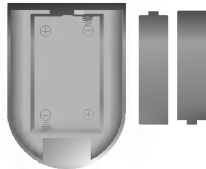
**14. SLEEP**

sets the sleep timer.

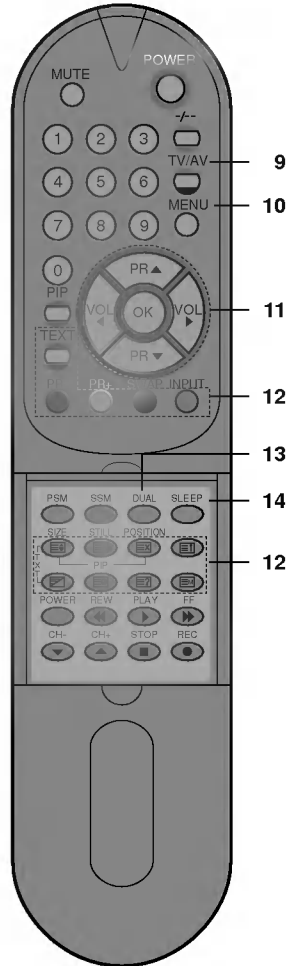
**Note :** In teletext mode, the **PR+/-**, **SWAP**, **INPUT**, **SIZE**, **STILL** and **POSITION** buttons are used for teletext function.

**Battery installation**

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



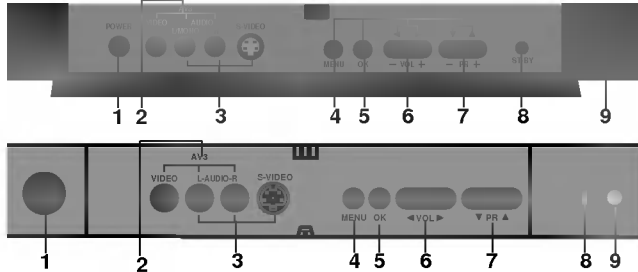
**Note :** To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.



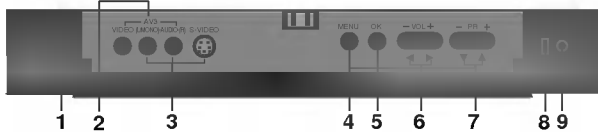
# Location and function of controls

## Control panel

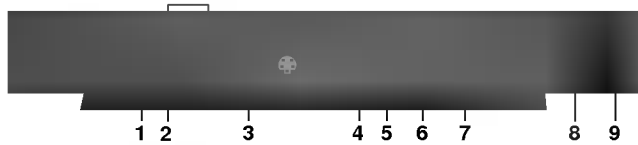
### CF-25/29C44 series



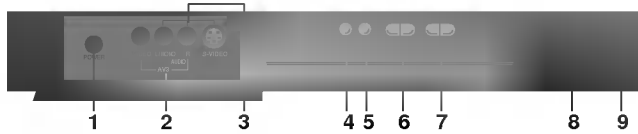
### CF-25/29C60 series



### CF-25/29C70 series

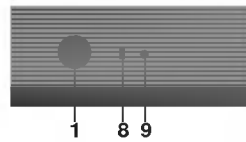


### CF-25/29C80 series

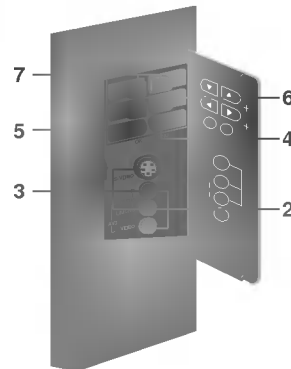


### CF-25/29B20 series

#### Front



#### Side



1. **MAIN POWER**  
switches the set on or off.
2. **AUDIO/VIDEO IN SOCKETS (AV3)**  
Connect the audio/video out sockets of external equipment to these sockets.
3. **S-VIDEO/AUDIO IN SOCKETS (S-AV)**  
Connect the video out socket of a S-VHS VCR to the **S-VIDEO** socket. Connect the audio out sockets of the S-VHS VCR to the audio sockets as in AV3.
4. **MENU**  
selects a menu.
5. **OK**  
accepts your selection or displays the current mode.
6. **VOLUME UP/DOWN**  
adjusts the volume.
7. **PROGRAMME UP/DOWN**  
switches the set on from standby. selects a programme or a menu item.
8. **STANDBY INDICATOR**  
illuminates when the set is in standby mode.
9. **REMOTE CONTROL SENSOR**

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## Basic operation

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### On and off

1. Press the main power button on the set, the set then switches on.
2. If the set is in standby mode, press the **POWER**, **▲ / ▼** or **NUMBER** buttons on the remote control handset to fully switch the set on.
3. Press the **POWER** button on the remote control handset once more. The set reverts to standby.
4. Press the main power button on the set again. It switches the set off.

### Programme selection

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

Before entering a number, press the **-/--** button until the display **-** for single digit programme numbers or **--** for double digit programme numbers appears on the screen.

### Volume adjustment

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

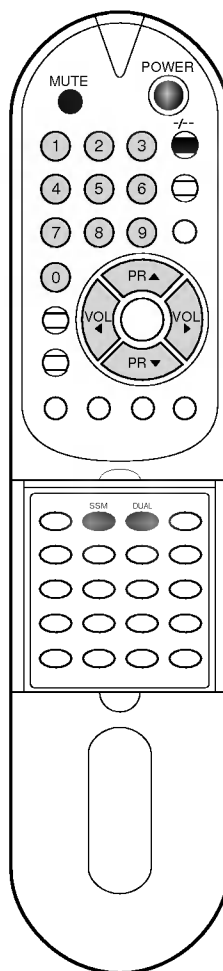
### Mute function

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

### On screen language selection (option)

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

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **▲ / ▼** button to select **LANGUAGE [ ]**.
5. Press the **◀ / ▶** button to select the desired language.  
All the on screen displays will appear in the selected language.
6. Press the **MENU** button to return to normal TV viewing.

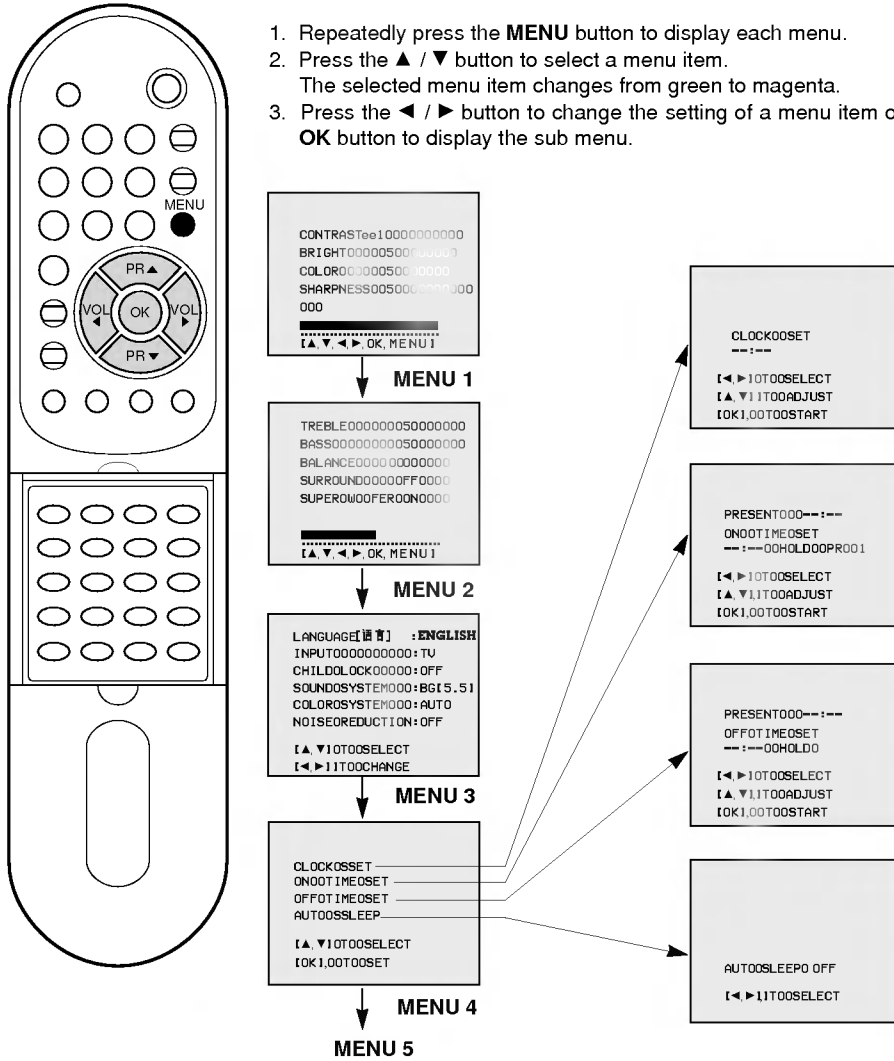


# On screen menus

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.

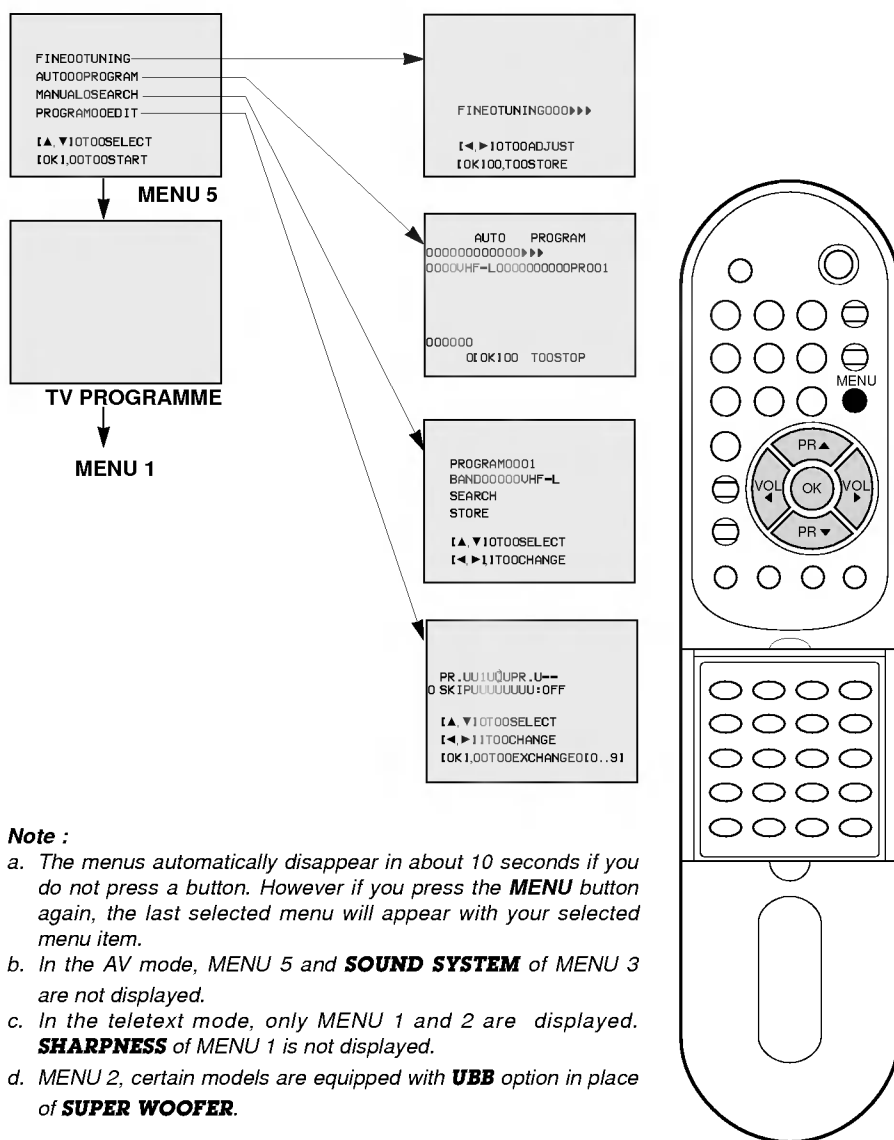
## Menu selection

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





## On screen menus



**Note :**

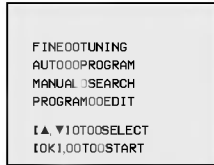
- a. The menus automatically disappear in about 10 seconds if you do not press a button. However if you press the **MENU** button again, the last selected menu will appear with your selected menu item.
- b. In the AV mode, MENU 5 and **SOUND SYSTEM** of MENU 3 are not displayed.
- c. In the teletext mode, only MENU 1 and 2 are displayed. **SHARPNESS** of MENU 1 is not displayed.
- d. MENU 2, certain models are equipped with **UBB** option in place of **SUPER WOOFER**.

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## Setting up TV stations

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### MENU 5



Up to 80 TV stations can be stored in this set by programme numbers (0 to 79). Once you have preset the stations, you will be able to use the ▲ / ▼ or NUMBER buttons to scan the stations you programmed.

Stations can be tuned using an automatic or a manual mode.

### Auto programme tuning

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

1. Repeatedly press the **MENU** button to select MENU 5.
2. Press the ▲ / ▼ button to select **AUTO PROGRAM**.
3. Press the **OK** button to begin auto programming.

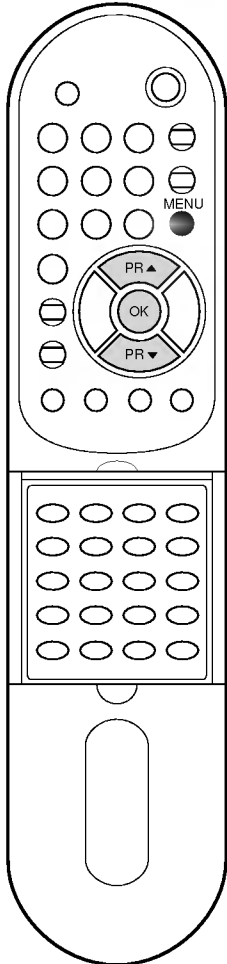
The band automatically changes

**VHF-L → VHF-H → UHF.**

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

To stop auto programming, press the **OK** button. The programme number 1 at that time will be displayed.

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



# Setting up TV stations

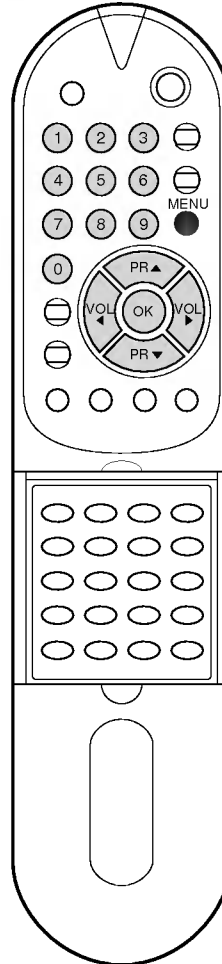
## Manual programme tuning

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

1. Repeatedly press the **MENU** button to select MENU 5.
2. Press the **▲ / ▼** button to select **MANUAL SEARCH**.
3. Press the **OK** button to display the **MANUAL SEARCH** mode.



4. Press the **▲ / ▼** button to select **PROGRAM**. Select the desired programme number with the **◀ / ▶** or **NUMBER** buttons.
5. Press the **▲ / ▼** button to select **BAND**. Press the **◀ / ▶** button to select **VHF-L**, **VHF-H** or **UHF** as required.
6. Press the **▲ / ▼** button to select **SEARCH**. Press the **▶** button to commence searching. To stop the search at any time press the **OK** button.
7. If this station is the one required select the last menu item **STORE** with the **▲ / ▼** button and then store it with the **◀ / ▶** button, if not press the **▶** button again.
8. To store another station repeat steps 4 to 7.
9. Press the **OK** button to return to normal TV viewing.



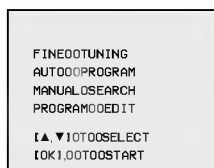
## Fine tuning

Normally fine tuning is only necessary if reception is poor.

1. Repeatedly press the **MENU** button to select MENU 5.
2. Press the **▲ / ▼** button to select **FINE TUNING**.
3. Press the **OK** button, and the **FINE TUNING** mode will appear.
4. Press the **◀ / ▶** button to fine tune for the best picture and sound. If the **▶** button is pressed, the display **▶▶▶** will appear. And if the **◀** button is pressed, the display **◀◀◀** appears.
5. Press the **OK** button to store the setting. The display **STORED** will appear.  
The finely tuned programme will be indicated by yellow number during programme selection.

## Setting up TV stations

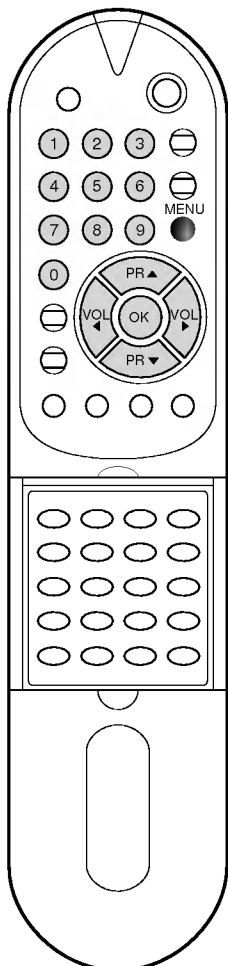
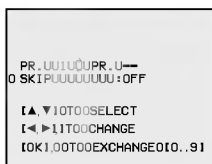
### MENU 5



### Programme edit

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

1. Repeatedly press the **MENU** button to select MENU 5.
2. Press the ▲ / ▼ button to select **PROGRAM EDIT**.
3. Press the **OK** button, and the **PROGRAM EDIT** mode will appear.



### Exchanging programmes

1. Press the ◀ / ▶ button to change the left hand programme number. The viewing station corresponding to the new programme number is shown on the screen.
2. Press the NUMBER buttons to enter the desired right hand programme number. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5. At this time if your set has the PIP function the selected programme appears on the sub picture.
3. Press the **OK** button. The station stored in the right hand programme number will now appear as the left hand programme number.
4. Repeat steps 1 to 3 to exchange other programmes.
5. Press the **MENU** button twice to return to normal TV viewing.

### Skipping the stored programme

1. Press the ◀ / ▶ button to select the programme you want to skip. The viewing station corresponding to the selected programme number is shown on the screen.
2. Press the ▲ / ▼ button to select **SKIP**.
3. Press the ◀ / ▶ button to select **ON** or **OFF**.  
 If you select **ON**, the selected station is skipped.
4. Repeat steps 1 to 3 to skip another programme.
5. Press the **OK** button to return to normal TV viewing.

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

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## Picture adjustment

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

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



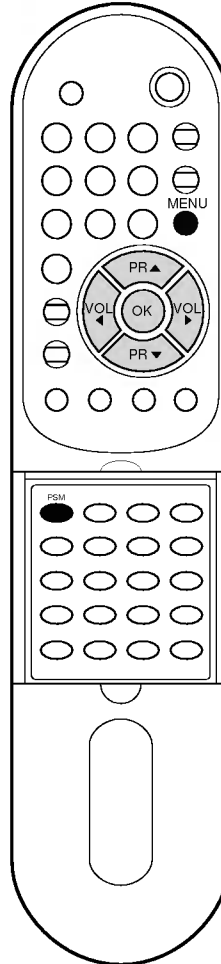
At this point you can complete your adjustments or store your setting for immediate recall by following steps 4 to 6.

4. Press the **OK** button.



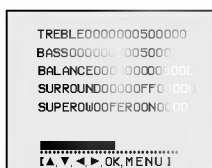
5. Select **FAVORITE 1** or **FAVORITE 2** with the **▲ / ▼** button.  
The **FAVORITE 1** or **FAVORITE 2** options allow you to programme two entirely different picture settings for various lighting conditions such as day and night.
6. Press the **OK** button. The display **STORED** will appear.

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



# Sound adjustment

## MENU 2



## Sound adjustment

You can adjust the sound treble, bass, balance, surround and super woofer (or Ultra Bass Booster) as you prefer. The surround sound creates the sound effect surrounded around as in a concert hall and super woofer (or UBB) stresses and emphasizes heavy sound.

1. Repeatedly press the **MENU** button to select MENU 2.
2. Press the **▲ / ▼** button to select the desired sound item.
3. Press the **◀ / ▶** button to make desired adjustment.
4. Press the **OK** button to store. The adjusted sound level is stored in the **FAVORITE SOUND**.

To recall your preferred setting, press the **SSM** button until the desired sound (**STANDARD SOUND**, **MUSIC SOUND**, or **FAVORITE SOUND**) appears. The **STANDARD SOUND** and **MUSIC SOUND** are programmed for good sound reproduction at the factory and cannot be changed.

## Stereo/Dual reception

When a programme is selected, the sound information for the station appears with the colour system and programme number.

Broadcast	On Screen Display
Mono	(None)
Stereo	<b>STEREO</b>
Dual	<b>DUAL I</b>

## Mono sound selection

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

**Note :** If the mono signal is distorted or noisy press the **DUAL** button to switch between mono and forced mono sounds. In case of forced mono sound **MONO** is displayed on the screen.

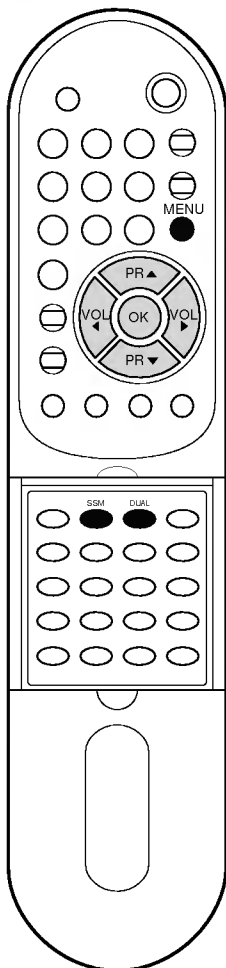
## Language selection for dual language broadcast

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

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

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

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



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## Sound adjustment

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### NICAM reception (option)

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

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

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

### Sound output selection

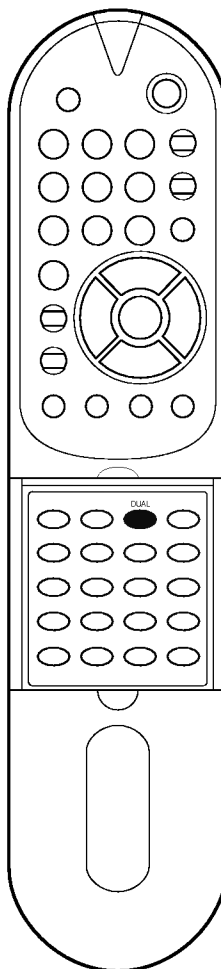
In AV mode, you can select output sound for the left and right loudspeakers.

Repeatedly press the **DUAL** button to select the sound output.

**LR** : Audio signal from audio L input is sent to left loudspeaker and audio signal from audio R input is sent to right loudspeaker.

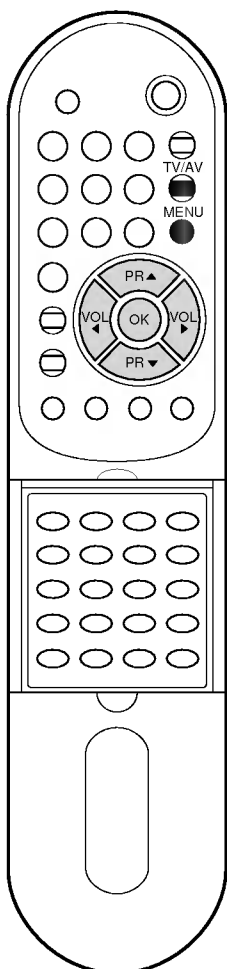
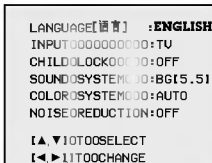
**LL** : Audio signal from audio L input is sent to left and right loudspeakers.

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



## Other functions

### MENU 3



### TV and AV modes

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

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

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **▲ / ▼** button to select **INPUT**.
3. Press the **◀ / ▶** button to select **TV, AV1, AV2, AV3** or **S-AV**.  
The four AV modes are :  
AV 1 : VCR connected to the **AV1** sockets on the back  
AV 2 : VCR connected to the **AV2** sockets on the back  
AV 3 : VCR connected to the **AV3** sockets on the control panel  
S-AV : VCR connected to the **AUDIO** and **S-VIDEO** sockets on the control panel
4. Press the **OK** button.  
To return to TV mode from AV mode press the **▲ / ▼** or **NUMBER** buttons.

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

### Child lock

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

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **▲ / ▼** button to select **CHILD LOCK**.
3. Press the **◀ / ▶** button on the remote control handset to select **ON**.
4. Press the **OK** button to return to normal TV viewing.

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

### Sound system setting

If the sound is distorted or noisy, reset TV system using this function.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **▲ / ▼** button to select **SOUND SYSTEM**.
3. Press the **◀ / ▶** button to select the correct sound system, **BG[5.5], I[6.0], DK[6.5]** or **M[4.5]**.
4. Press the **OK** button to return to normal TV viewing.



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## Other functions

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### Colour system setting

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

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **▲ / ▼** button to select **COLOR SYSTEM**.
3. Press the **◀ / ▶** button to select the correct colour system, **AUTO, PAL, SECAM, NTSC 4.43, NTSC 3.58**.
4. Press the **OK** button to return to normal TV viewing.

```
LANGUAGE[ ] : ENGLISH MENU 3
INPUT0000000000: TV
CHILDLOCK0000: OFF
SOUNDSYSTEM00: BGI5.5I
COLORSYSTEM00: AUTO
NOISEREDUCTION: OFF
[▲▼] 10TOSELECT
[◀▶] 11TOCHANGE
```

### Noise reduction

This function during viewing reduces picture noise.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **▲ / ▼** button to select **NOISE REDUCTION**.
3. Press the **◀ / ▶** button to select **ON**.
4. Press the **OK** button to return to normal TV viewing.

### Sleep timer

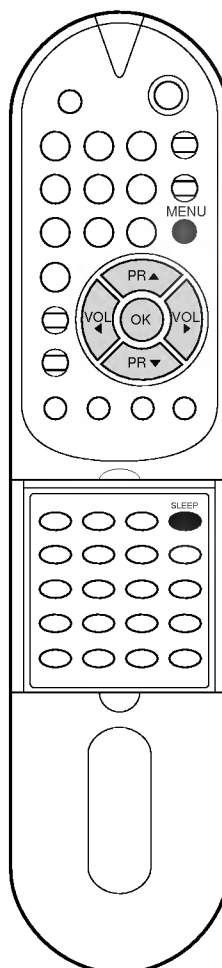
You don't have to remember to switch the set off before you go to sleep. The sleep timer automatically switches the set to standby after the preset time elapses.

For selecting your desired number of minutes, press the **SLEEP** button several times or continuously. --- will appear on the screen, followed by **120, 90, 60, 50, 40, 30, 20** and **10**.

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

#### Note :

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



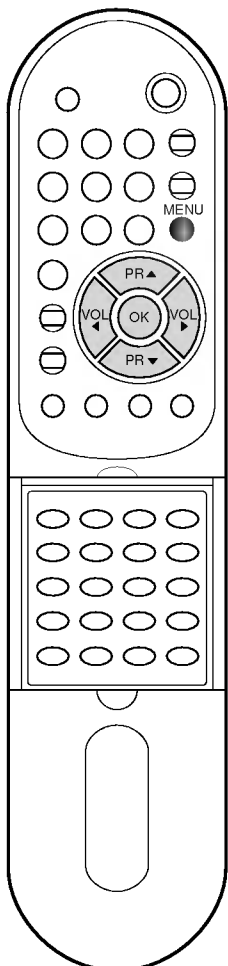
---

## Time setting

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### MENU 4

CLOCK SET  
ON/OFF TIME SET  
OFF TIME SET  
AUTO SLEEP  
[▲/▼] TO SELECT  
[OK] TO SET



### Clock

The clock uses the 24 hour system, and must be set to the correct time before operating the set.

1. Repeatedly press the **MENU** button to select MENU 4.
2. Press the ▲ / ▼ button to select **CLOCK SET**.
3. Press the **OK** button to display the sub menu.
4. Select and adjust hour and minute by pressing the ▲ / ▼ and ◀ / ▶ buttons.
5. Press the **OK** button to start.

### On/off time

By using this function, the set automatically turns on at the preset time and station. You must set the clock correctly before using on/off time functions.

1. Repeatedly press the **MENU** button to select MENU 4.
2. Press the ▲ / ▼ button to select **ON TIME SET**.
3. Press the **OK** button to display the sub menu.
4. Select and adjust hour, minute, **RUN/HOLD**, and programme number by pressing the ▲ / ▼ and ◀ / ▶ buttons.
5. Press the **OK** button to start.

For OFF TIME SET, repeat above steps. Please note the absence of programme number in this mode.

### Note :

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

### Auto sleep

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

1. Repeatedly press the **MENU** button to select MENU 4.
2. Press the ▲ / ▼ button to select **AUTO SLEEP**.
3. Press the **OK** button to display the sub menu.
4. Press the ◀ / ▶ button to select **ON** or **OFF**.
5. Press the **OK** button to return to normal TV viewing.

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## PIP operation (option)

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### Option:

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

PIP (Picture in Picture) displays a picture within a picture. Thus, at the same time you can watch two different programmes.

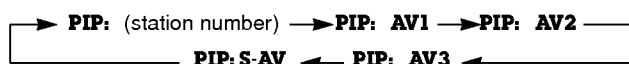
### On and off

Press the **PIP** button to switch on a sub picture.  
Press this button again to switch it off.

### Input mode selection for sub picture

Press the **INPUT** button while the sub picture remains within the main picture.

Each time this button is pressed, each input mode for the sub picture is displayed as shown below on the main screen beneath the programme number.



### Swapping between main and sub picture

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

### Sub picture freeze

Press the **STILL** button to freeze 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.

### Sub picture minimization

Press the **SIZE** button to minify the sub picture.  
Press this button again to restore normal size.

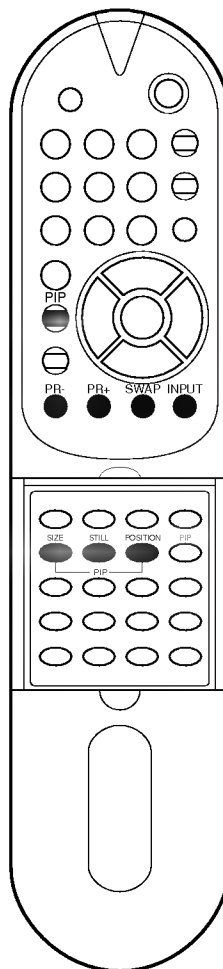
### Programme selection for sub picture

Press the **PR +/-** buttons. The selected programme number is displayed beneath the main picture programme number.

### Note :

a. PIP operations differ between one or two tuner TVs. One tuner models cannot simultaneously display two separate programmes as can two tuner models.

b. In the PIP mode, you can not adjust the picture.



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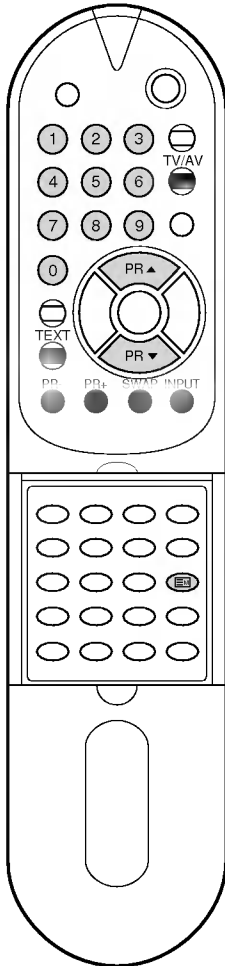
## Teletext (option)

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

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 LIST, TOP and FASTEXT modes. LIST (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 without recurring page numbers.




### Switch on/off

Press the **TEXT** button to switch on the teletext. The initial page or last selected page appears on the screen. The teletext decoder is in the teletext mode transmitted by the broadcast station.

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

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

### LIST mode

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

### Page selection

1. Enter the desired page number as a three digit number with the **NUMBER** buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number. If the page is not available, the page number, e.g. "> 300 <" will flash for a few seconds.
2. The **▲ / ▼** button can be used to select the preceding or following page.

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## Teletext (option)

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### Programming a colour button

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

1. Using the NUMBER buttons, select the page you wish to programme.
2. Wait until the page is displayed on the screen and press the **OK** button. The page numbers in the colour boxes along the bottom of the screen change to ">000?".
3. Press a coloured button to store the page number. From now on, you can select this page with the same coloured button.
4. The three other coloured buttons are programmed in the same way.

### TOP mode (option)

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

#### Group/block/page selection

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


#### Direct page selection

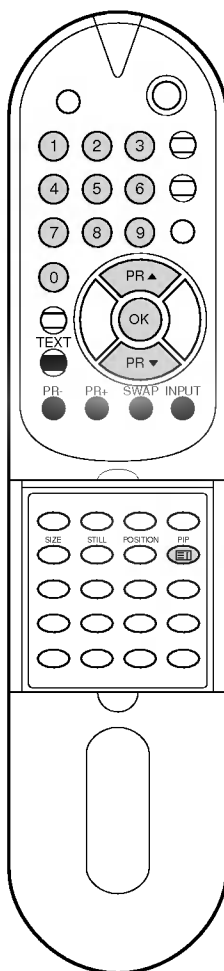
Corresponding to the LIST teletext mode, you can select a page by entering a three digit number with the NUMBER buttons in TOP mode. If the page is not available, the page number, e.g. ">300<" flashes for a few seconds.

### FASTEXT mode

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

#### Page selection

1. Press the  button to select the index page.
2. You can select the pages which are colour coded along the bottom line with the same coloured buttons.
3. Corresponding to the LIST teletext mode, you can select a page by entering three digit page number with the NUMBER buttons in FASTEXT mode.
4. The **▲** / **▼** button can be used to select the preceding or following page.

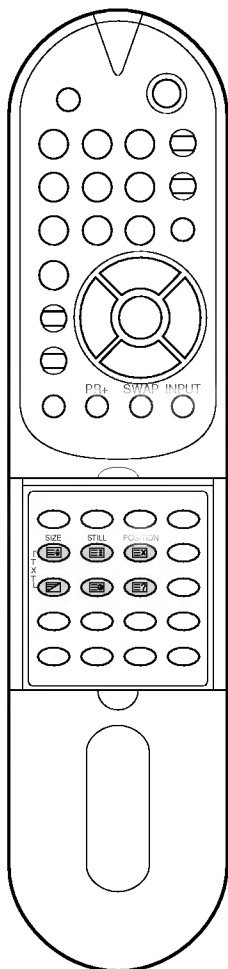


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## Teletext (option)

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### Special teletext functions



#### REVEAL

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

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



#### EXPAND (SIZE)

Selects double height text.

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

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

Press this button again to return to the normal display.



#### UPDATE

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

Press this button to view the updated teletext page.



#### HOLD (STOP)

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

To continue press this button again.



#### MIX

Displays the teletext pages superimposed on the TV picture.

To switch the TV picture off press this button again.



#### TIME

When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In teletext mode press this button to select and hold or change a four digit sub page number. This is displayed along the bottom of the screen. Press this button again to exit this function.

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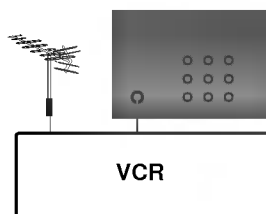
## Connection of external equipment

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

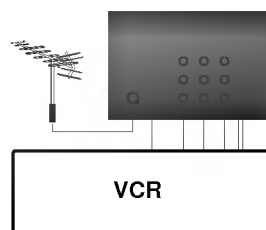
### Aerial socket

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



### Audio/Video in/out sockets

1. Connect the audio/video out sockets of the VCR to audio/video in sockets of the set and in sockets of the VCR to out sockets of the set.
2. If the VCR is connected to the **AV1** sockets, press the **TV/AV** button to select **AV1**. You should select **AV2** if **AV2** sockets on the back panel are connected to the VCR or **AV3** if **AV3** sockets on the control panel are used.
3. Press the **PLAY** button on the VCR.  
The VCR playback picture appears on the screen.

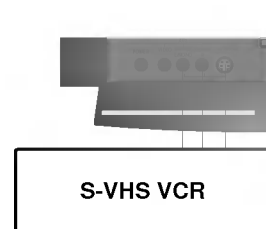


You can also record programmes received by the TV on video tape via audio/video out sockets.

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

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

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



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

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# Troubleshooting check list

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## Symptoms

No picture, no sound

Sound OK, poor picture

Picture OK, poor sound

Picture blurred

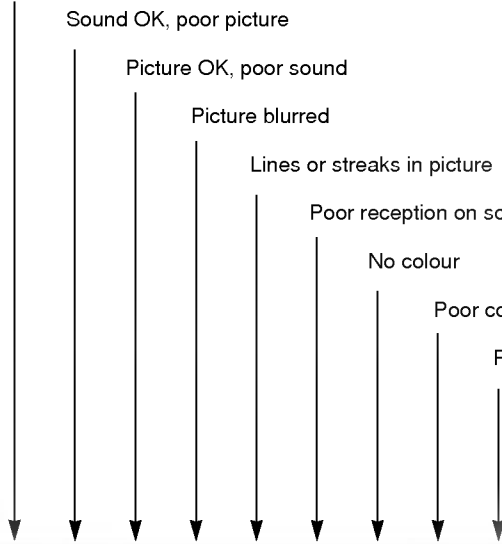
Lines or streaks in picture

Poor reception on some channels

No colour

Poor colour

Remote control does not work



## Check these items and try to adjust these

The mains plug-(plugged in and switched on)

Is the TV switched on

Try another channel (weak signal)

Check aerial (plugged into TV?)

Check aerial (broken lead?)

Check aerial

Check for local interference

Adjust contrast

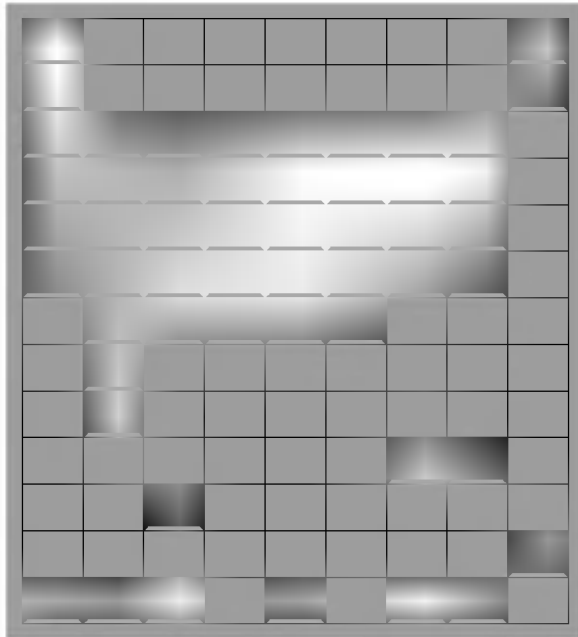
Adjust brightness

Adjust colour

Adjust volume

Check the batteries in remote control

Check Audio/Video sockets (VCR only)



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