LCD
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 : 3828VA0[illegible]L012A, 061U/082L TX)

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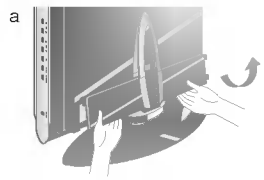
Installation

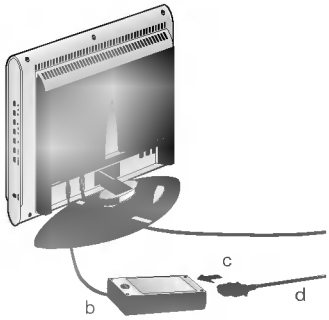
Power



This set operates on a DC supply provided by the AC-DC adaptor, the voltage is as indicated on the label on the back cover. Use only the AC-DC adaptor supplied with the set and never apply an AC mains to the set directly. The AC-DC adaptor operates on an AC mains supply, the voltage is as indicated on the label of the AC-DC adaptor.

a. Open the back panel cover.
b. Connect the DC plug of the AC-DC adaptor to the 12V socket of the set.
c. Connect the AC-DC adaptor and it's power cord.
d. Connect the power cord to an AC mains.
e. Close the back panel cover.

In the event of thunderstorms or powercuts, please pull out the mains plug of the AC-DC adaptor and the aerial plug. Do not allow anything to rest upon or roll over the power cord, and do not place the monitor where the power cord is subject to damage.



Warning

To prevent fire or shock hazard, do not expose the set to rain or moisture. Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mar, or damage the Active Matrix LCD permanently.
The working life of this set is 7 years since the date of delivery to consumer.

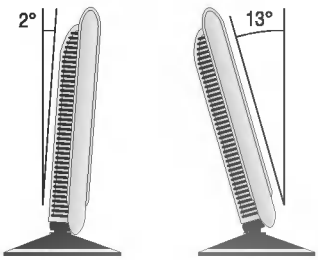
Service

Never remove the back cover of the set as this can expose you to 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 𝕀75 Ω on the back. For the best reception an outdoor aerial should be used.

Location



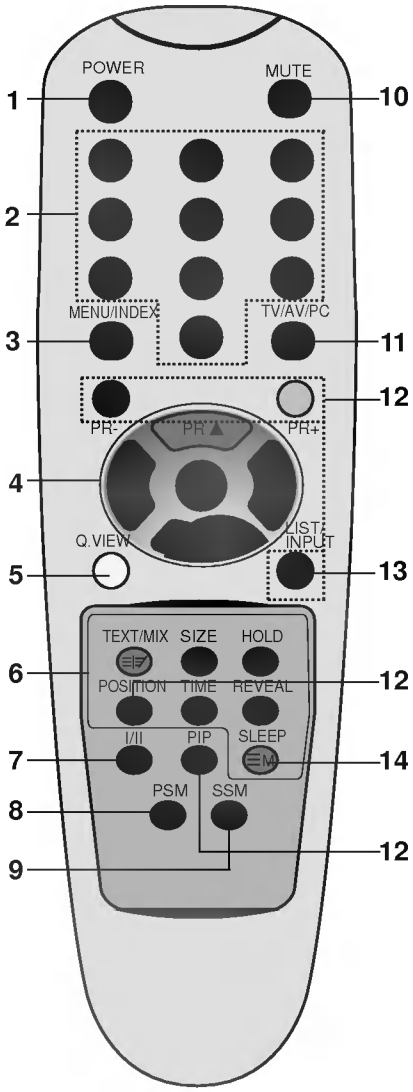
Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on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

Cleaning

Unplug the set before cleaning the face of the LCD Screen. Dust the set by wiping the screen and the cabinet with a soft, clean cloth. If the screen requires additional cleaning, use a clean, damp cloth. Do not use liquid cleaners or aerosol cleaners.

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 side panel of the set.



Remote control handset

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

1. **POWER**
   switches the set on from standby or off to standby.

2. **NUMBER BUTTONS**
   switches the set on from standby and selects a programme.

3. **MENU (or INDEX)**
   selects a menu.
   selects an index page in the teletext mode (only TELETEXT models).

4. **▲ / ▼ (Programme Up/Down)**
   selects a programme or a menu item.
   switches the set on from standby.
   ◄ / ► (Volume Up/Down)
   adjusts the volume.
   adjusts menu settings.
   OK
   accepts your selection or displays the current mode.

5. **Q.VIEW**
   returns to the previously viewed programme.

6. **TELETEXT BUTTONS (option)**
   These buttons are used for teletext.
   For further details, see the 'Teletext' section.

7. **I/II (option)**
   selects the language during dual language broadcast.
   selects the sound output (option).

8. **PSM (Picture Status Memory)**
   recalls your preferred picture setting.

9. **SSM (Sound Status Memory)**
   recalls your preferred sound setting.

Location and function of controls

10. MUTE
switches the sound on or off.

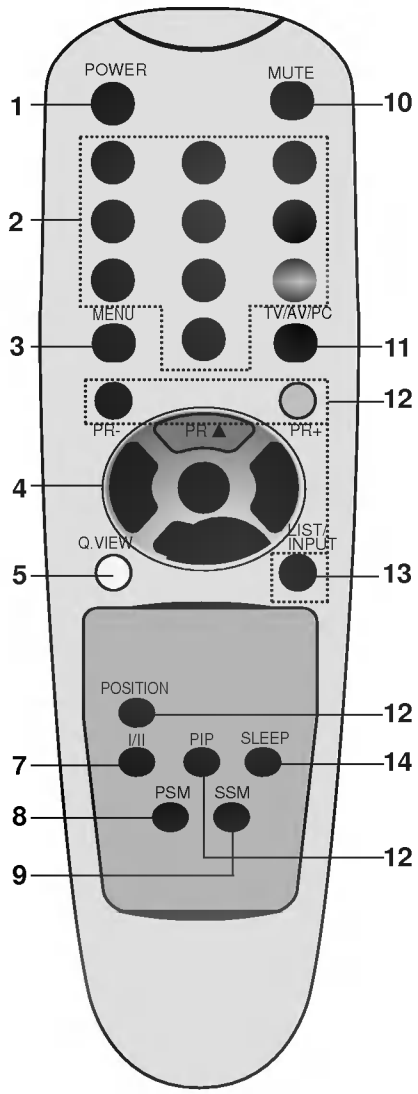
11. TV/AV/PC
selects TV, AV or PC monitor mode.
clears the menu from the screen.
switches the set on from standby.

12. PIP BUTTONS (option) (PC mode only)
PIP
switches the sub picture on or off.
PR +/-
selects a programme for the sub picture.
INPUT
selects the input mode for the sub picture.
POSITION
relocates the sub picture in up/down or left/right direction.

13. LIST
displays the programme table.

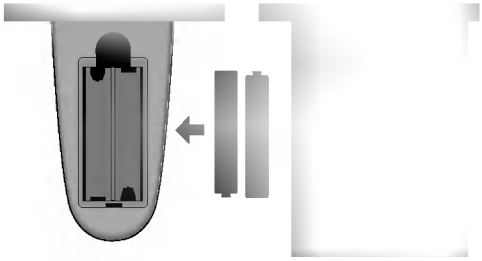
14. SLEEP
sets the sleep timer.

Note : *In teletext mode, the **PR+/-**, **Q.VIEW** and **LIST** buttons are used for teletext functions.*



Battery installation

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

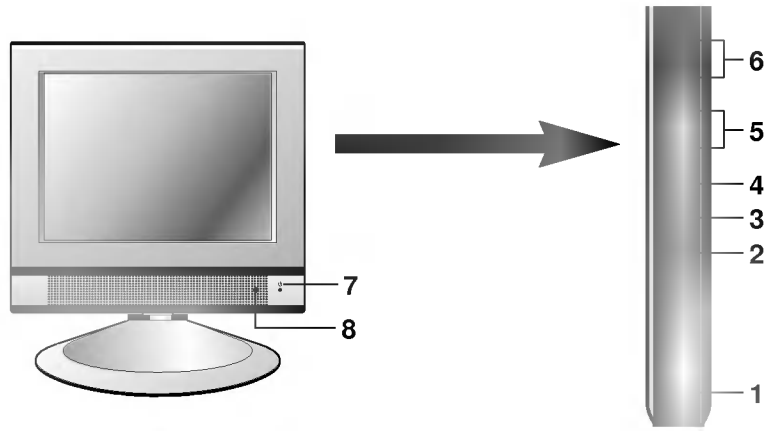


Note : *To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.*

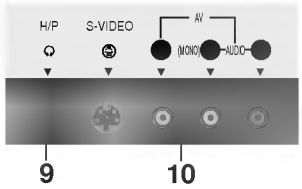
Location and function of controls

Side panel

RT-15LA31 series



Back panel



1. **MAIN POWER (ON/OFF)**
   switches the set on or off.

2. **TV/AV/PC**
   selects TV, DVD, AV or PC monitor mode.
   clears the menu from the screen.
   switches the set on from standby.

3. **MENU**
   selects a menu.

4. **OK**
   accepts your selection or displays the current mode.

5. **◄ / ► (Volume Up/Down)**
   adjusts the volume.
   adjusts menu settings.

6. **▲ / ▼ (Programme Up/Down)**
   selects a programme or a menu item.
   switches the set on from standby.

7. **POWER/STANDBY INDICATOR (⏻)**
   illuminates brightly when the set is in standby mode.
   dims when the set is switched on.

8. **REMOTE CONTROL SENSOR**

9. **HEADPHONE SOCKET**
   Connect the headphone plug to this socket.

10. **AUDIO/VIDEO IN SOCKETS (AV)**
    Connect the audio/video out sockets of external equipment to these sockets.

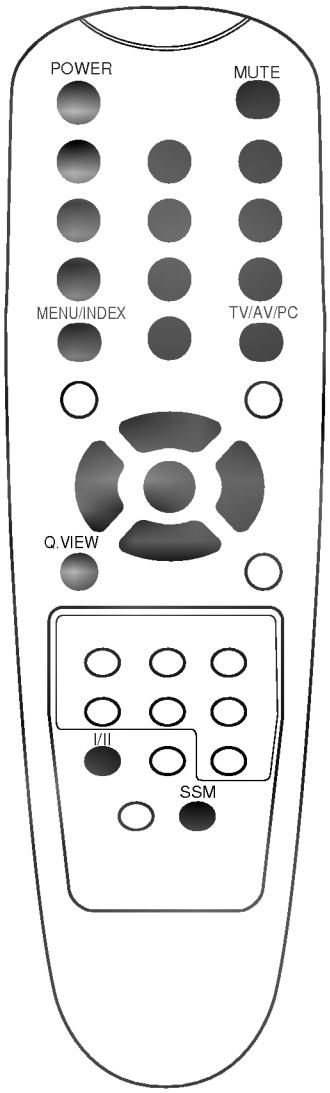
    S-VIDEO/AUDIO IN SOCKETS (S-Video)
    Connect the video out socket of an S-VIDEO VCR to the **S-VIDEO** socket.
    Connects the audio out sockets of the S-VIDEO VCR to the audio sockets as in **AV**.

Basic operation

On and off

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

Note : *If, while the set is switched on, the mains plug is disconnected the set will switch to standby or power on when the mains plug is replaced in the mains power socket.*



Programme selection

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

Volume adjustment

Press the ◄ / ► button to adjust the volume.

Quick view

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

Mute function

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

Auto Demonstration

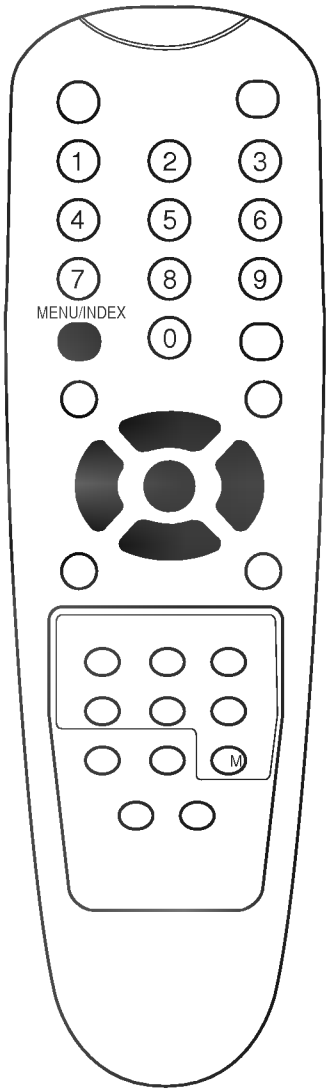
To review all the menus programmed in the set, press the **OK** button of the side panel control for about 10 seconds. To stop auto demonstration, press any button of the side panel control and **POWER** button of the remote control.

On screen language selection (option)

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

1. Press the **MENU** button to select the Station menu.
2. Press the ► button and then ▲ / ▼ button to select **LANGUAGE**.
3. Press the ► button and then ▲ / ▼ button to select your desired language.
   All the on screen displays will appear in the selected language.
   Press the **OK** or ◄ button to select the Station menu.
4. Press the **TV/AV/PC** button to return to normal TV viewing.

On screen menus

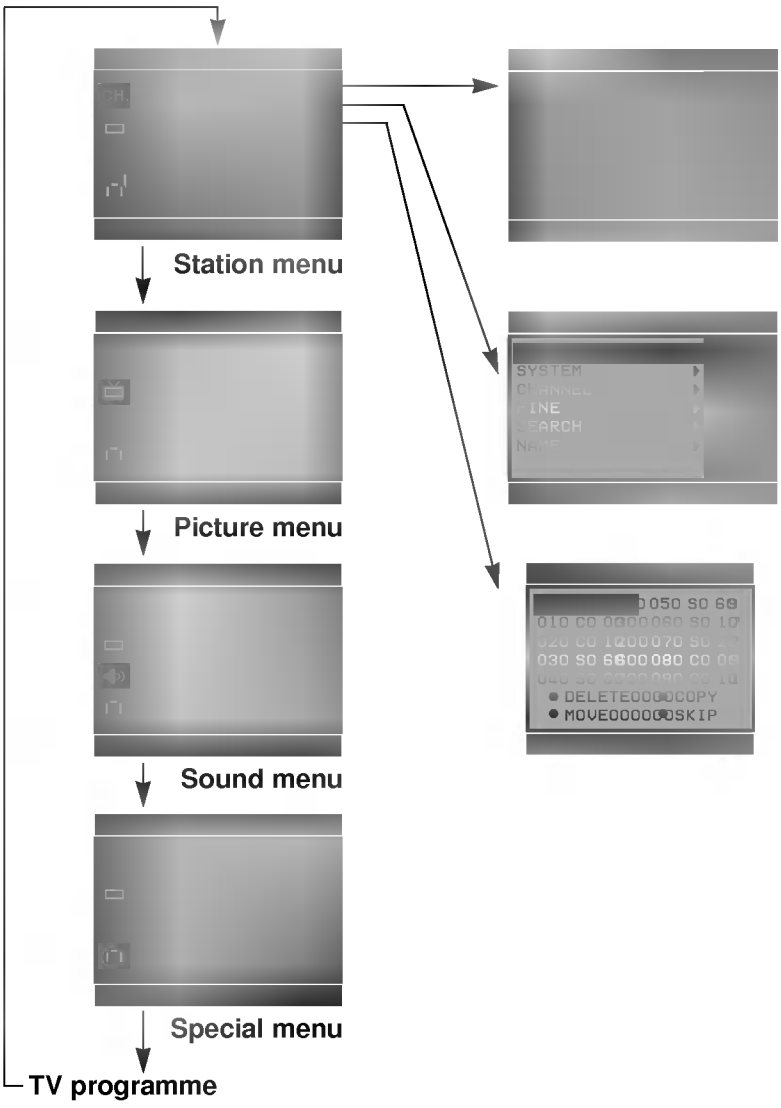


Menu selection

1. Repeatedly press the **MENU** button to display each menu.
2. Press the ► button and then ▲ / ▼ button to select a menu item.
3. Press the ► button to display the sub menu or the pull-down menu.
4. Change the setting of an item in the sub or pull-down menu with ◄ / ► or ▲ / ▼.
   You can move to the higher level menu by pressing the **OK** or ◄ button and to move to the lower level menu by pressing the ► button.

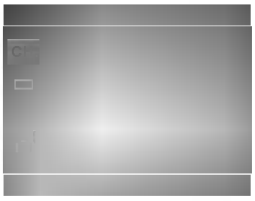
Note :

a. In the AV/PC mode, the Station menu is not displayed.
b. In the teletext mode, menus are not displayed.
c. On some models, the ***LANGUAGE*** *will not display.*



Setting up TV stations

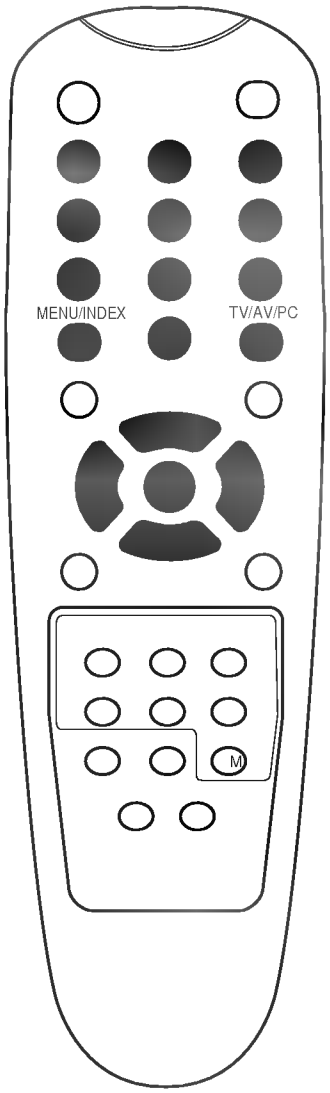
Up to 100 TV stations can be stored by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the ▲ / ▼ or NUMBER buttons to scan the stations you have programmed. Stations can be tuned using automatic or manual modes.



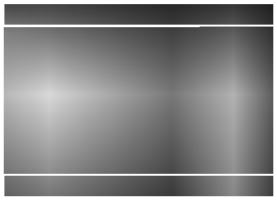
Station Menu

Auto programme tuning

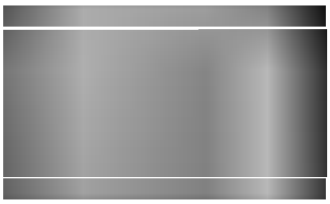
All stations that can be received are stored by this method. It is recommended that you use auto programme during installation of this set.



1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the ▶ button and then ▲ / ▼ button to select **AUTO PROGRAMME**.
3. 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 **OK** or ◀ button.
6. Press the ▲ / ▼ button to 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**' in front of it, i.e. '**05**' for 5.
8. Press the **OK** button.
9. Press the ▲ / ▼ button to select **START**.
10. Press the ▶ button to begin auto programming.

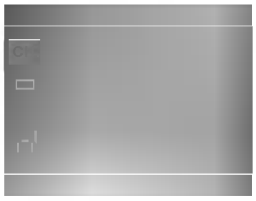


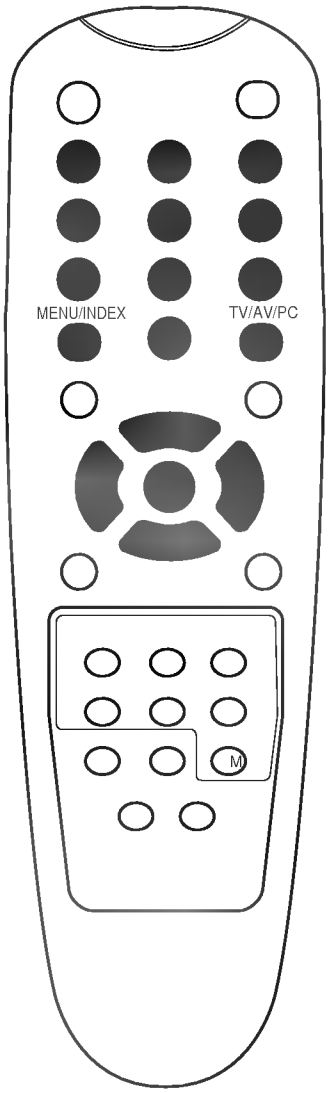
All receivable stations are stored.
To stop auto programming, press the **MENU** button.
When auto programming is completed, the **PROGRAMME EDIT** menu appears on the screen. See the 'Programme edit' section to edit the stored programme.

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

Setting up TV stations

Station Menu



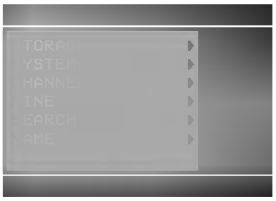


Manual programme tuning

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

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the ► button and then ▲ / ▼ button to select **MANUAL PROGRAMME**.
3. 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**' 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 : (Asia/New Zealand/M.East/Africa/Australia)
   I : (Hong Kong/South Africa)
   DK : (East Europe/China/Africa/CIS)
   M : (USA/Korea/Philippines) (option)
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 buttons. Any number under 10 is entered with a numeric '**0**' in front of it, i.e. '**05**' for 5.
12. Press the **OK** or ◄ button.
13. Press the ▲ / ▼ button to select **SEARCH**.
14. Press the ► button. Press the ◄ / ► button to commence 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.

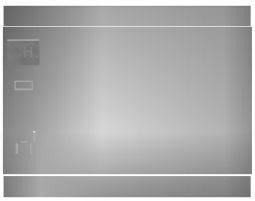


16. To store another station, repeat steps 4 to 15.
17. Press the **TV/AV/PC** button to return to normal TV viewing.

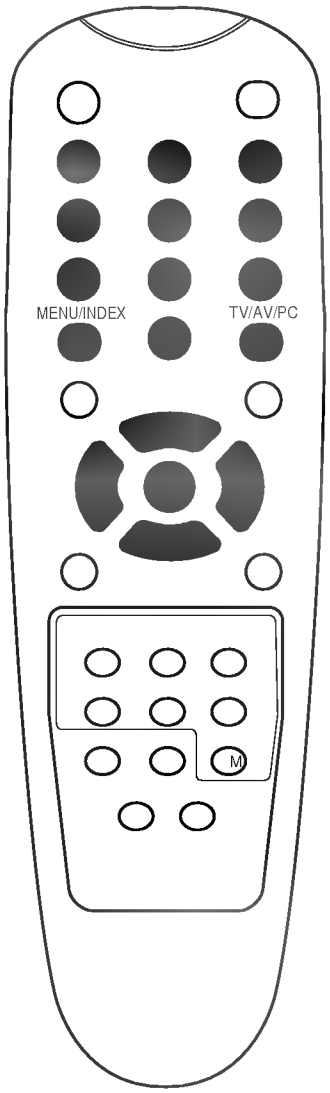
Setting up TV stations

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.
4. 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.
5. Select the position by pressing the ◄ / ► button and then make your choice of the second character, and so on.
6. Press the **OK** button.
7. Press the **TV/AV/PC** button to return to normal TV viewing.



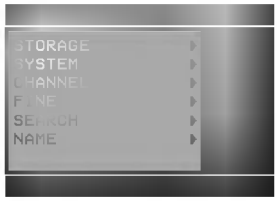
Station Menu



Fine tuning

Normally fine tuning is only necessary if reception is poor.

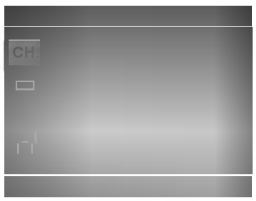
1. Repeat the 'Manual programme tuning' steps 1 to 3.
2. Press the ▲ / ▼ button to select **FINE**.
3. Press the ► button.

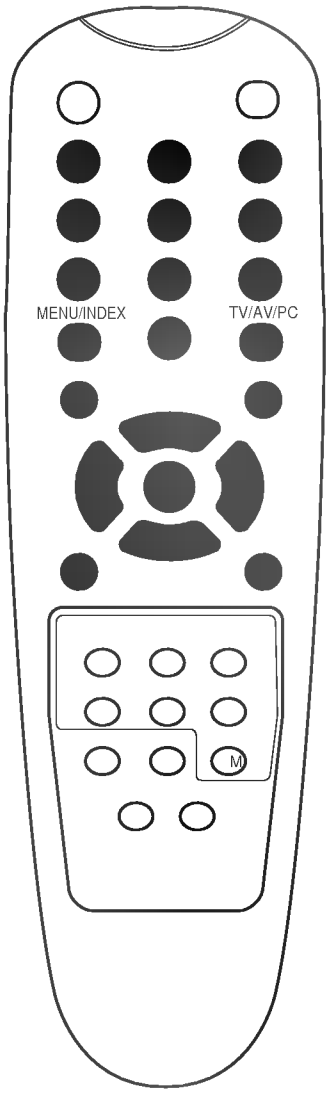


4. Press the ◄ / ► button to fine tune for the best picture and sound on the **FINE** pull-down menu.
5. Press the **OK** button.
6. Press the **TV/AV/PC** button to return to normal TV viewing.
   The finely tuned programme will be indicated by a yellow number during programme selection.

Setting up TV stations

Station Menu

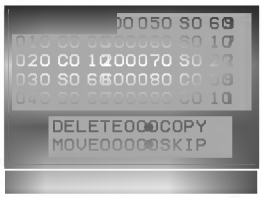




Programme edit

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

1. Repeatedly press the **MENU** button to select the Station menu.
2. Press the ► button and then ▲ / ▼ button to select **PROGRAMME EDIT**.
3. Press the ► button to display the **PROGRAMME EDIT** menu.



Deleting a programme

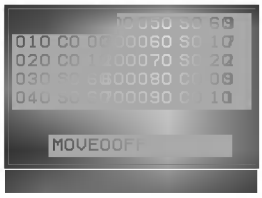
1. Select a programme to be deleted with the ▲ / ▼ or ◄ / ► button.
2. Press the RED button twice.
   The selected programme is deleted, all the following programmes are shifted up one position.

Copying a programme

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

Moving a programme

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



Skipping a programme number

1. Select a programme number to be skipped with the ▲ / ▼ or ◄ / ► button.
2. Press the BLUE button. The skipped programme turns to blue.
3. Press the BLUE button again to release the skipped programme. When a programme number is skipped it means that you will be unable to select it using the ▲ / ▼ button during normal TV viewing. If you want to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or table menu.

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

Setting up TV stations

Calling the programme table

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

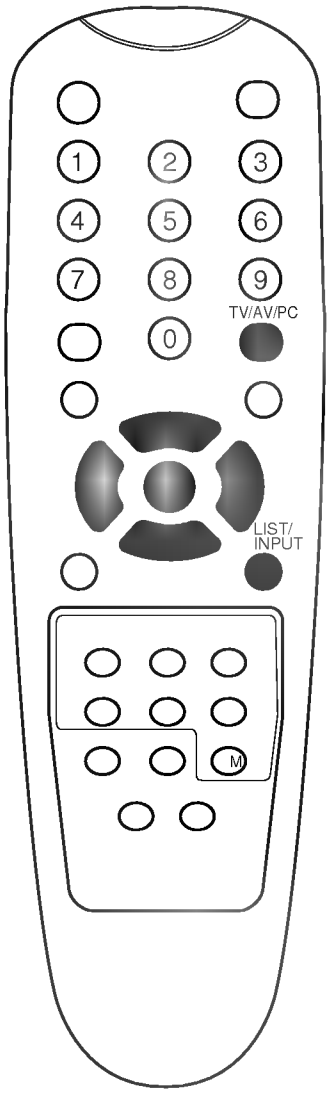
Displaying programme table
Press the **LIST** button to display the **programme table** menu.
The programme table appears on the screen. One programme table contains ten programmes as below.

Note :
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.

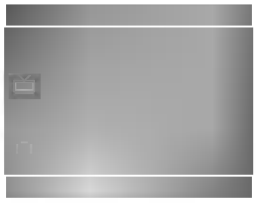
Paging through a programme table
There are 10 programme table pages in which contain 100 programmes.
Pressing the ▲ / ▼ or ◄ / ► button repeatedly turns the pages.

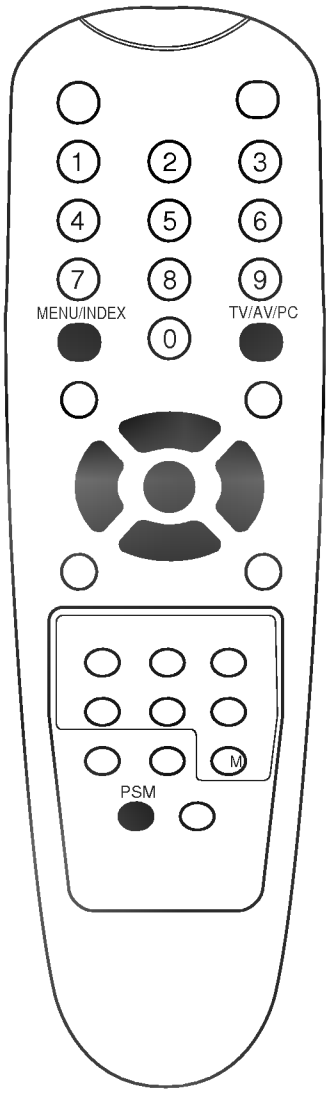
Press the **TV/AV/PC** button to return to normal TV viewing.



Picture adjustment

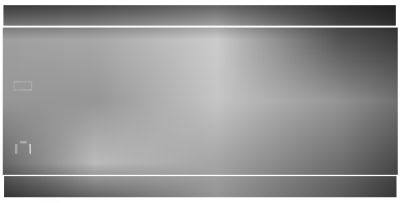
Picture Menu





PSM (Picture Status Memory)

1. Repeatedly press the **MENU** button to select the Picture menu.
2. Press the ► button and then ▲ / ▼ button to select **PSM**.
3. Press the ► button and then ▲ / ▼ button to select a picture setting on the **PSM** pull-down menu.



4. Press the **OK** or ◄ button.
5. Press the **TV/AV/PC** 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** and **GAME** are programmed for optimum picture reproduction at the factory and cannot be changed.

DRP (Digital Reality Picture)

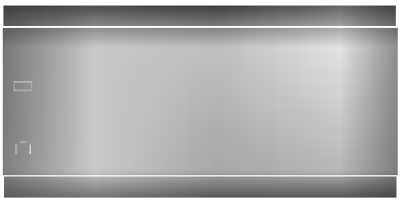
DRP improves image outlines in dark screens.

1. Repeatedly press the **MENU** button to select the Picture menu.
2. Press the ► button and then ▲ / ▼ button to select **DRP**.
3. Press the ► button and then ▲ / ▼ button to select **DYNAMIC** or **MILD** on the **DRP** pull-down menu.
4. Press the **OK** or ◄ button.
5. Press the **TV/AV/PC** button to return to normal TV viewing.

Picture adjustment

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

1. Repeatedly press the **MENU** button to select the Picture menu.
2. Press the ► button and then ▲ / ▼ button to select **USER**.
3. Press the ► button and then ▲ / ▼ button to select the desired picture item on the **USER** pull-down menu.



4. Press the ► button.
5. Press the ◄ / ► button to make appropriate adjustments on the each sub menu.

   You can also select other **USER** items directly with ▲ / ▼ button and adjust them with ◄ / ► button.
6. Press the **OK** button to store it for the picture **USER**.
7. Press the **TV/AV/PC** button to return to normal TV viewing.

Sound adjustment

SSM (Sound Status Memory)

Sound Menu

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

1. Repeatedly press the **MENU** button to select the Sound menu.
2. Press the ► button and then ▲ / ▼ button to select **SSM**.
3. Press the ► button and then ▲ / ▼ button to select a sound setting on the **SSM** pull-down menu.

Sound Frequency Adjustment

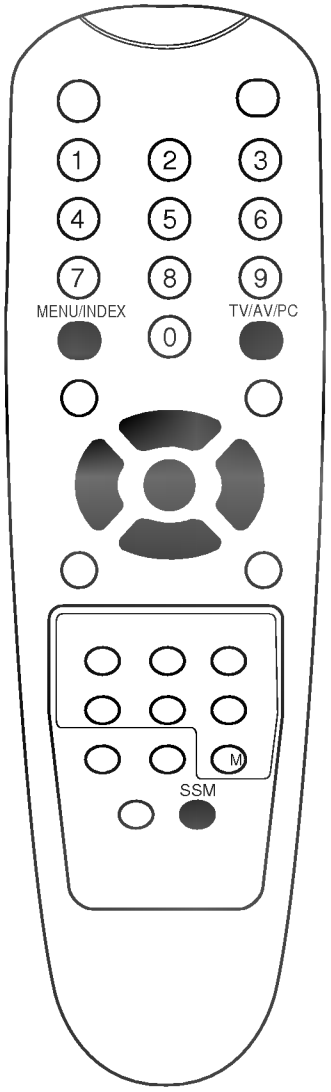
a. Press the ► button in **USER** to display the **USER** sub menu.

b. Select a sound band by pressing the ◄ / ► button.
c. Make appropriate sound level with the ▲ / ▼ button.
d. Press the **OK** button to store it for the sound **USER**.
The display **STORED** appears.

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

You can also recall a desired sound setting (**FLAT**, **MUSIC**, **MOVIE**, **SPEECH** or **USER**) with **SSM** button on the remote control. The sound settings **FLAT**, **MUSIC**, **MOVIE** and **SPEECH** are programmed for optimum 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**, **MOVIE** or **SPEECH**.*



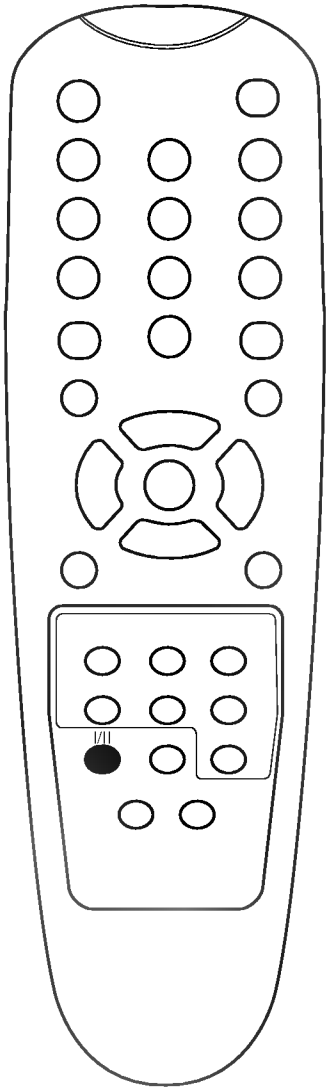
Sound adjustment

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

1. Repeatedly press the **MENU** button to select the Sound menu.
2. Press the ► button and then ▲ / ▼ button to select the desired sound item; **BALANCE** or **AVL**.
3. Make desired adjustment with the ◄ / ►, ▲ / ▼ or **OK** button on each pull-down menu.

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

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 is received in two languages (dual language), you can switch to **DUAL I**, **DUAL II** or **DUAL I+II** by pressing the **I/II** button repeatedly.
DUAL I sends the primary broadcast language to the loudspeakers.
DUAL II sends the secondary broadcast language to the loudspeakers.
DUAL I+II sends a separate language to each loudspeaker.

NICAM reception (option)

If your set is equipped with the receiver for NICAM reception, the high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.
Sound output can be selected according to the type of received broadcast as follows by pressing the **I/II** button repeatedly.

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

Sound output selection

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

Repeatedly press the **I/II** button to select the sound output.
L+R : Audio signal from audio L input is sent to left loud-speaker and audio signal from audio R input is sent to right loudspeaker.
L+L : Audio signal from audio L input is sent to left and right loudspeakers.
R+R : Audio signal from audio R input is sent to left and right loudspeakers.

Other functions

TV, AV and PC modes

Special Menu

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

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

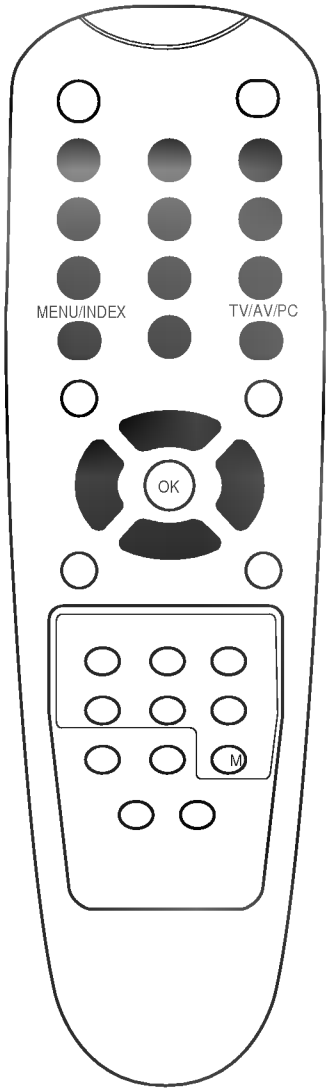
1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the ► button and then ▲ / ▼ button to select **INPUT**.
3. Press the ► button and then ▲ / ▼ button to select **TV**, **AV**, **S-VIDEO**, **COMPONENT** or **PC**.

The AV, S-VIDEO, COMPONENT and PC modes are :
AV : VCR connected to the **AV** of the set
S-Video : S-VIDEO VCR connected to the **S-VIDEO** socket of the set
COMPONENT : COMPONENT connected to the DVD DTV IN socket of the set
PC : PERSONAL COMPUTER connected to the PC socket of the set

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

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

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



Child lock

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

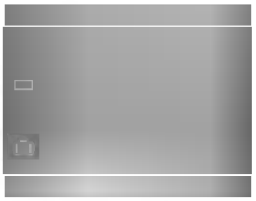
1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the ► button and then ▲ / ▼ button to select **CHILD LOCK**.
3. Press the ► button and then ▲ / ▼ button to select **ON** or **OFF** on the **CHILD LOCK** pull-down menu.
4. Press the **TV/AV/PC** button to return to normal TV viewing.

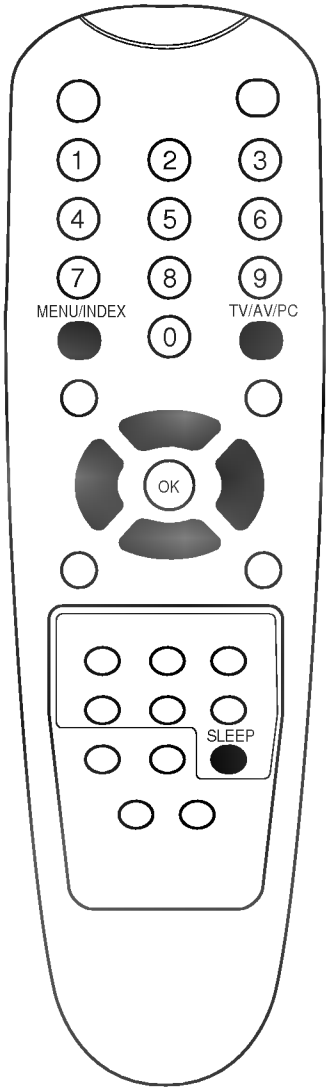
With the lock on, the display **CHILD LOCK ON** appears on the screen if any button on the front panel is pressed while viewing the TV.

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

Other functions

Special Menu





Auto sleep

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.

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the ► button and then ▲ / ▼ button to select **AUTO SLEEP**.
3. Press the ► button and then ▲ / ▼ button to select **ON** or **OFF** on the **AUTO SLEEP** pull-down menu.
4. Press the **TV/AV/PC** 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.
Press the **SLEEP** button to select the number of minutes. The display ⏻ **- - -** will appear on the screen, followed by **10**, **20**, **30**, **60**, **90**, **120**, **180** and **240**. The timer begins to count down from the number of minutes selected.

Note :

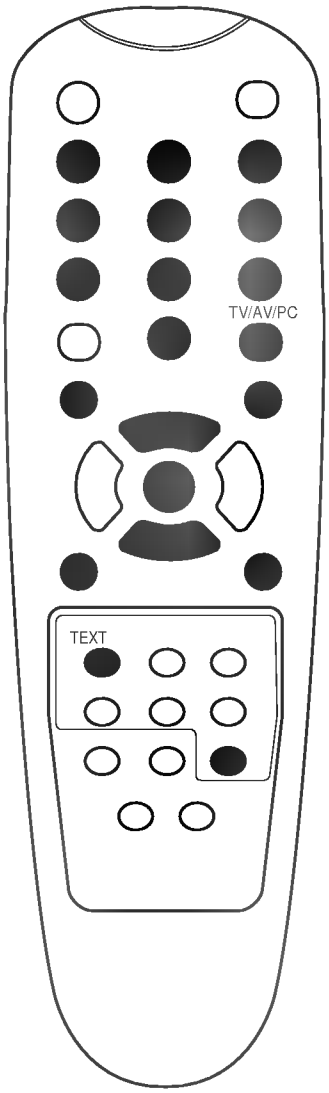
*a. To view the remaining sleep time, press the **SLEEP** button once.*
*b. To cancel the sleep time, repeatedly press the **SLEEP** button until the display ⏻ **- - -** appears.*
c. When you switch the set off, the set releases the preset sleep time.

Teletext (option)

Teletext (or TOP text) is an optional function, therefore only a set with the teletext system can receive the teletext broadcast.

Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.

The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.



Switch on/off

Press the **TEXT** button to switch to teletext. The initial page or last page appears on the screen.
Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.
Press the **TV/AV/PC** button to switch off teletext. The previous mode reappears.

SIMPLE text

Page selection

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

Programming a colour button in LIST mode

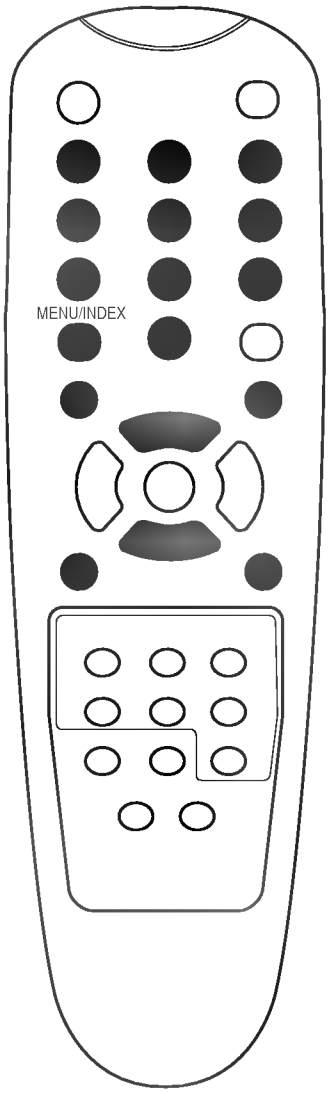
If the TV is in SIMPLE text, TOP text or FASTEXT mode, press the- (EM) button to switch to LIST mode.

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

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

Note : *In PIP of the PC mode, select the sub picture size is* ***PIP (S)****,* ***PIP (M)*** *or* ***PIP (L)****.*
In ***PIP (S)*** *of the PC mode, the text on the screen may be unstable.*

Teletext (option)



TOP text (option)

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

Block / group / page selection

1. With the blue button you can progress from block to block.
2. Use the yellow button to proceed to the next group with automatic overflow to the next block.
3. With the green button you can proceed to the next existing page with automatic overflow to the next group.
   Alternatively the ▲ button can be used.
4. The red button permits to return to previous selection. Alternatively the ▼ button can be used.

Direct page selection

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

FASTEXT

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

Page selection

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

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.

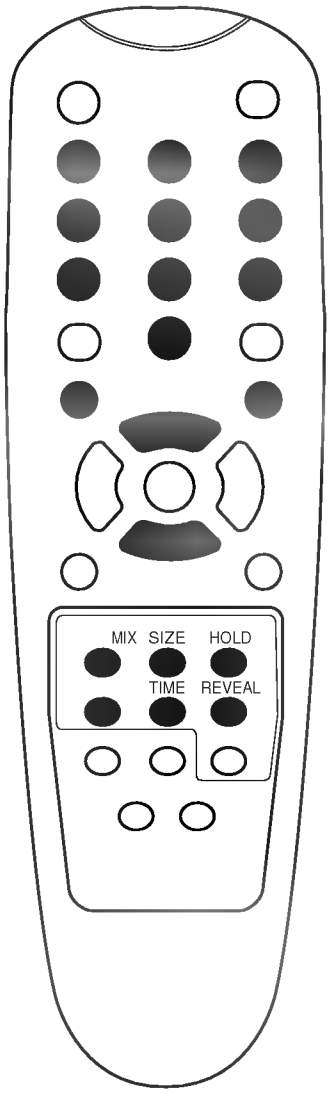
SIZE
Selects double height text.
Press this button to enlarge the top half of the page.
Press this button again to enlarge the bottom half of the page.
Press this button again to return to the normal display.

UPDATE
Displays the TV picture on the screen while waiting for the new teletext page. The display will appear at the top left hand corner of the screen. When the updated page is available then display will change to the page number.
Press this button to view the updated teletext page.

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

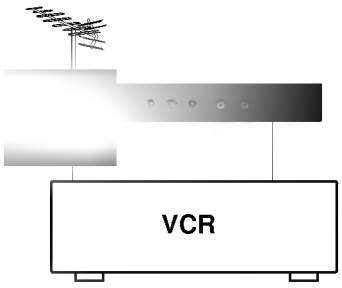
MIX
Displays the teletext pages superimposed on the TV picture.
To switch the TV picture off press this button again.

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



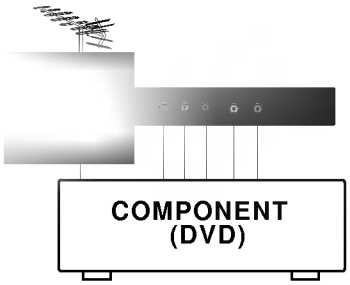
Connection of external equipment

You can connect additional equipment, such as VCRs, camcorders etc. to your set. Examples are shown below.



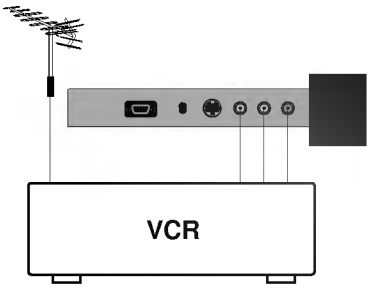
Aerial socket

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



Component in sockets

1. Connect the COMPONENT video output sockets (Y Cb Cr, Y Pb Pr or Y B-Y R-Y) of the COMPONENT (480i/480p/720p/1080i) to the COMPONENT INPUT sockets (Y P_B P_R) of the set.
2. Connect the audio cable from the COMPONENT to the **AUDIO** sockets of the set.
3. Press the **TV/AV/PC** button to select **COMPONENT**.
4. Press the **PLAY** button on the COMPONENT.
   The COMPONENT playback picture appears on the screen.



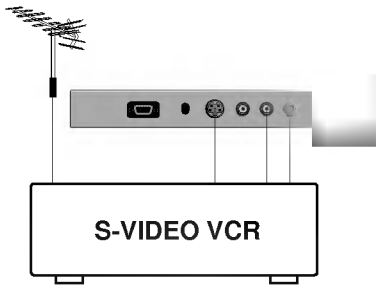
Audio/Video in sockets

1. Connect the audio/video out sockets of the VCR to audio/video in sockets of the set.
2. Press the **TV/AV/PC** button to select **AV**.
3. 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 of the set.*

Connection of external equipment

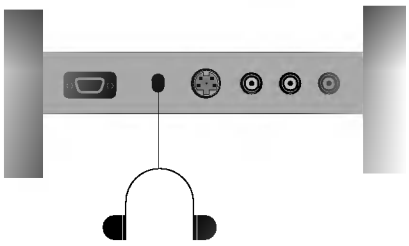
S-Video/Audio in sockets(S-Video)



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

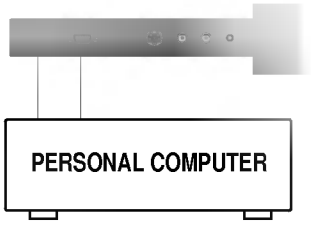
1. Connect the S-Video socket of the VCR to the **S-VIDEO** socket of the set.
2. Connect the audio cable from the S-VIDEO VCR to the **AUDIO** sockets of the set.
3. Select **S-VIDEO** by pressing the **TV/AV/PC** button repeatedly.
4. Press the **PLAY** button on the VCR.
   The VCR playback picture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

Headphone socket



Insert the headphone plug to the headphone socket of the set. You can listen to the sound through the headphone and TV's speaker. To adjust the headphone volume, press the ◄ / ► button. If you press the **MUTE** button, the sound from the headphone and TV's speaker are switched off.

Connection of PC



PC in socket (D-Sub jack)

1. Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the PC input socket of the set.
2. Connect the audio cable from the PC to the **PC SOUND** sockets of the set.
3. Press the **TV/AV/PC** button to select **PC**.
4. Switch on the PC, and the PC screen appears on the set. The set can be operated as the PC monitor.

Note : *If you have an Apple macintosh, connect the VGA desktop block (not supplied) from the 3 row 15 pin to 2 row 15 pin with the signal cable and connect the VGA desktop block to the Macintosh.*

Displayable Monitor Specification

MODE	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
VGA	640x350	31.4KHz	70Hz
	640x350	37.8KHz	85Hz
	640x400	31.4KHz	70Hz
	640x400	37.8KHz	85Hz
	640x480	31.5KHz	60Hz
	640x480	35KHz	66Hz
	640x480	37.9KHz	72Hz
	640x480	37.5KHz	75Hz
	640x480	43.3KHz	85Hz
SVGA	800x600	35.2KHz	56Hz
	800x600	37.9KHz	60Hz
	800x600	48.1KHz	72Hz
	800x600	46.9KHz	75Hz
	800x600	53.7KHz	85Hz
(MAC)	832x624	49.7KHz	75Hz
XGA	1024x768	48.4KHz	60Hz
	1024x768	56.5KHz	70Hz
	1024x768	60.2KHz	75Hz
	1024x768	68.7KHz	85Hz

(Synchronization input form : separate)

Note :

a. *If the set is cold, there may be a small "flicker" when the set is switched on. This is normal, there is nothing wrong with the set.*
b. *If possible, use the VESA 1,024x768@60Hz video mode to obtain the best image quality for your LCD monitor. If used under the other resolutions, some scaled or processed pictures may appear on the screen. If used to PC vertical frequency 85Hz, some noise can be seen when PIP is on. In this case, set the PC vertical frequency to 60Hz. The set has been pre-adjusted to the mode VESA 1,024x768@60Hz.*
c. *Some dot defects may appear on the screen, like Red, Green or Blue spots. However, this will have no impact or effect on the monitor performance.*
d. *Do not press the LCD screen with your finger for a long time as this may produce some temporary distortion effects on the screen.*
e. *When the PC screen appears on the set, a message may appear on the screen, and the message will differ according to the Window system version (Win98, 2000). If a message appears click "Next" until the message finishes.*
f. *If the message "**OUT OF RANGE**" appears on the screen, adjust the PC as in the 'Displayable Monitor Specification' section.*

DPM (Display Power Management) mode

When the PC is in the power saving mode, automatically the monitor goes into DPM mode to save the energy.

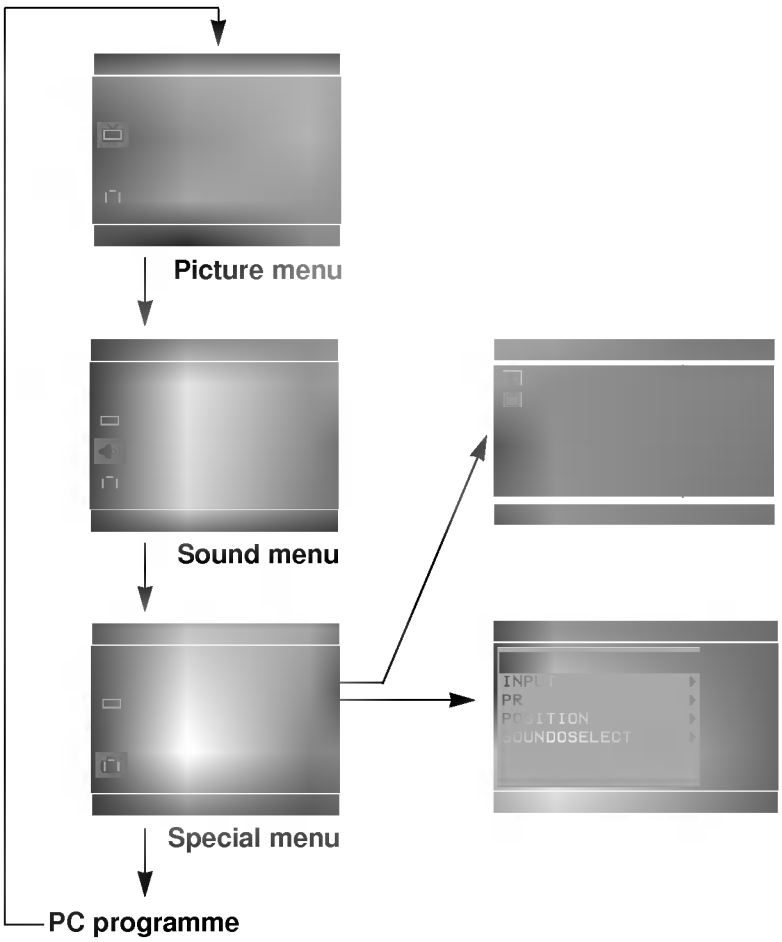
Connection of PC

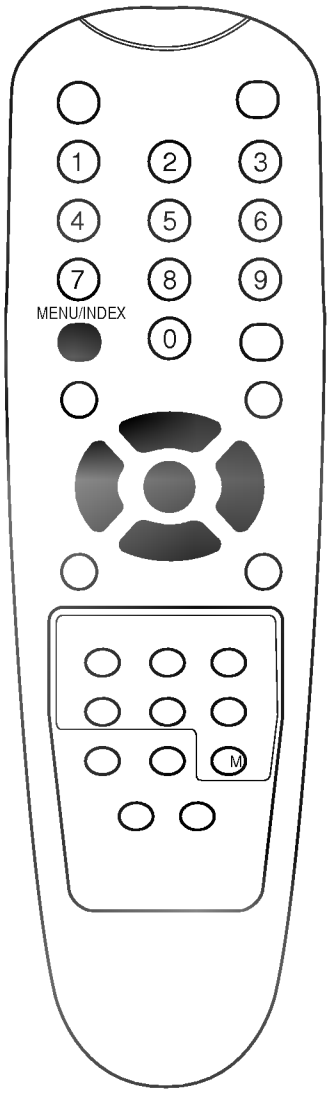
Menu selection

1. Repeatedly press the **MENU** button to display each menu.
2. Press the ► button and then ▲ / ▼ button to select a menu item.
3. Press the ► button to display the sub menu or the pull-down menu.
4. Change the setting of an item in the sub or pull-down menu with ◄ / ► or ▲ / ▼.
   You can move to the higher level menu by pressing the **OK** or ◄ button and to move to the lower level menu by pressing the ► button.

Note :

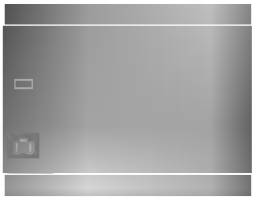
a. See 'Picture adjustment' section to adjust the picture.
b. See 'Sound adjustment' section to adjust the sound.
c. See 'TV, AV and PC modes' section to select TV, AV, S-VIDEO, COMPONENT or PC.

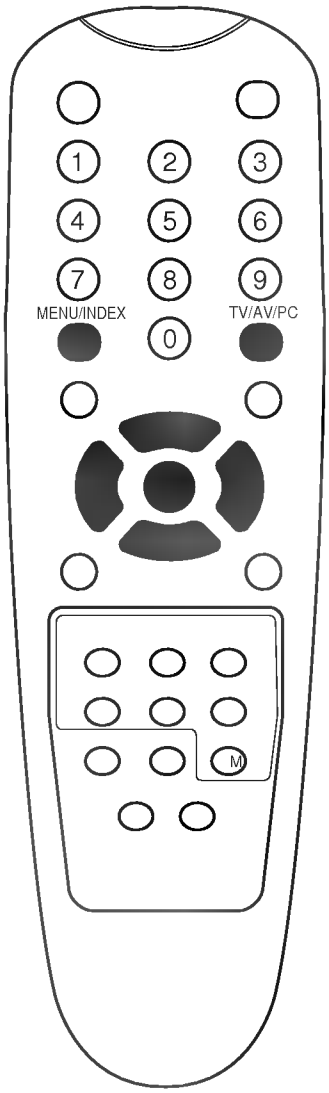




Connection of PC

Special Menu

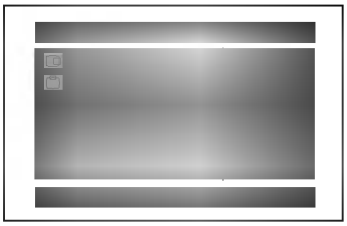




PC Setup

You can adjust horizontal/vertical position, clock, clock phase, auto-configure and reset as you prefer.

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the ▶ button and then ▲ / ▼ button to select **SETUP**.
3. Press the ▶ button and then ▲ / ▼ button to select the desired picture item.



4. Press the ◀ / ▶ button to make appropriate adjustments.

   (H-POSITION) / (V-POSITION)
   This function is to adjust picture to left/right and up/down as you prefer.

   CLOCK
   This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.

   CLOCK PHASE
   This function allows you to remove any horizontal noise and clear or sharpen the image of characters.

   AUTO-CONFIGURE
   This function is for the automatic adjustment of the screen position, clock and clock phase. The displayed image will disappear for a few seconds while the Auto-configuration is in process.

   Note : *Some signal from some graphics boards may not function properly. If the results are unsatisfactory, adjust your monitor's position, clock and clock phase manually.*

   RESET
   This function allows you to return to the good picture reproduction programmed at the factory and cannot be changed.

5. Press the **OK** button to store it for the PC monitor picture.
6. Repeatedly press the **TV/AV/PC** button to return to normal TV viewing.

Note : *If you turn on the PIP, you can not get in PC Setup. If you need to adjust PC Setup, please turn off the PIP first.*

PIP operation

PIP operation

PIP (Picture in Picture) displays a picture within a picture in the PC mode.

1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the ► button and then ▲ / ▼ button to select **PIP**.

3. Press the ► button to display the **PIP** menu.
4. Press the ▲ / ▼ button to select **PIP**.
5. Press the ► button to select the desired sub picture size.
   You can also recall a desired sub picture size (**Off**, **PIP (S)**, **PIP (M)**, or **PIP (L)**) with **PIP** button on the remote control.
6. Press the **OK** or ◄ button.
7. Press the ▲ / ▼ button to select **INPUT**.
8. Press the ► button and then ▲ / ▼ button to select **TV**, **AV** or **S-VIDEO**.
9. Press the **OK** or ◄ button.
10. Press the ▲ / ▼ button to select **PR**.
11. Press the ► button to select the programme number. Select the desired programme number (0 to 99) with the ◄ / ► button or NUMBER buttons on the **PR** pull-down menu. Any number under 10 is entered with a numeric '**0**' in front of it, i.e. '**05**' for 5.
12. Press the **OK** button.
13. Press the ▲ / ▼ button to select **SOUND SELECT**.
14. Press the ► button and then ▲ / ▼ button to select **PC** or **PIP** on the **SOUND SELECT** pull-down menu.
15. Press the **OK** or ◄ button.
16. Press the ▲ / ▼ button to select **POSITION**.
17. Press the ► button.
18. Press the ▲ / ▼ or ◄ / ► button until desired position is achieved. The sub picture moves up/down or left/right.
19. Press the **TV/AV/PC** button to return to normal TV viewing.

Alternatively you can select or operate the PIP function by using the **PIP**, **POSITION**, **INPUT** or **PR +/-** buttons.

On and off

Select the PC mode.
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.

→ Programme number → **AV** → **S-VIDEO** →

Programme selection for sub picture

Press the **PR +/-** button. The selected programme number is displayed just below the programme number of main picture.

Sub picture size

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

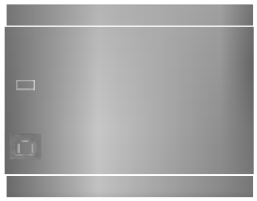
→ **Off** → **PIP (S)** → **PIP (M)** → **PIP (L)** →

Sub picture position change

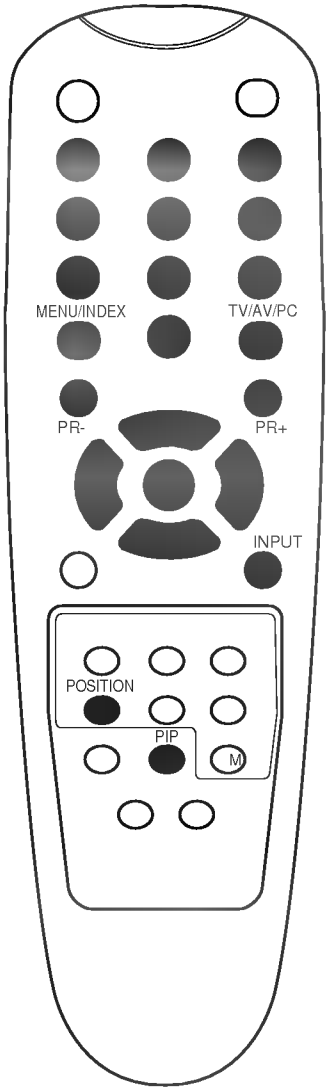
Press the **POSITION** button. Repeatedly press the ▲ / ▼ or ◄ / ► button until desired position is achieved. The sub picture moves up/down or left/right.

Note :

*a. If you turn on the TXT in PIP, some PIP keys, such as **POSITION**, **INPUT** or **PR +/-** etc. will work as TXT keys.*
b. In PIP picture resolution will be decreased by the PIP size.



Special Menu



Troubleshooting check list

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

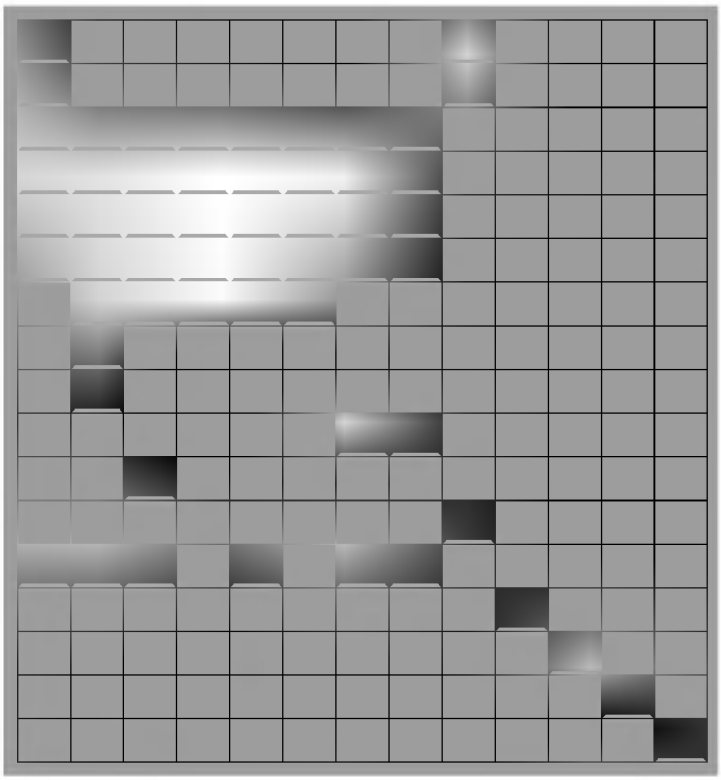
Remote control does not work

Incorrect position

Vertical bars or stripes on background

Horizontal noise

Signal Cable message appears



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)

Auto-configure or adjust the H/V position

Auto-configure or adjust Clock

Auto-configure or adjust Clock Phase

Is the Signal Cable connected or loose