



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 :

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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. In the event of thunderstorms or powercuts, please pull out the aerial and mains plugs.

Warning

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

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 A 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.

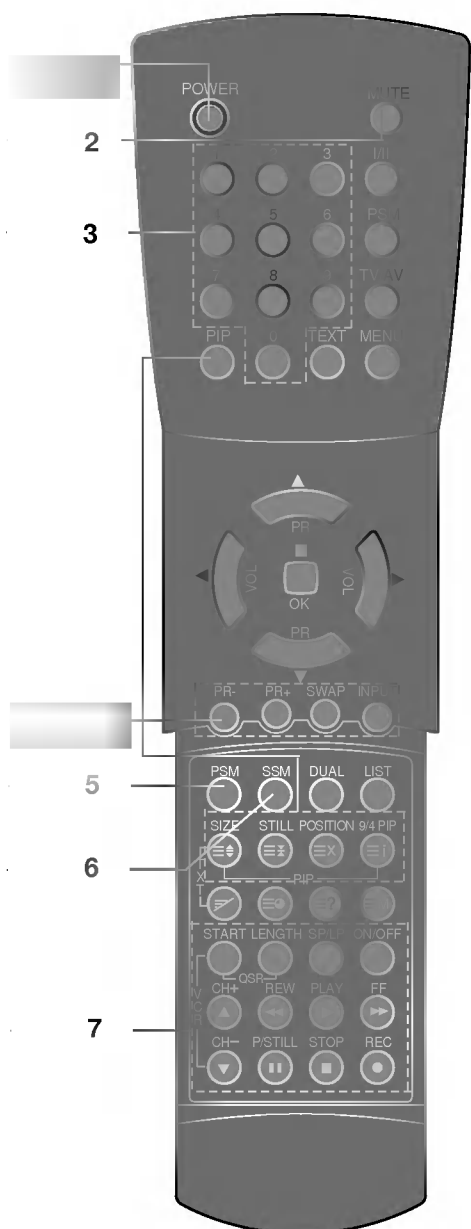
Do not place the set on a sloping or unstable area as the casters on the bottom of the set may cause it to move and to be damaged.

Location and function of controls Contents

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

Remote control handset

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



- 1. POWER**
switches the set on from standby or off to standby.
- 2. MUTE**
switches the sound on or off.
- 3. NUMBER BUTTONS**
switch the set on from standby or directly select a number.
- 4. PIP BUTTONS (option)**
PIP
switches the sub picture on or off.
PR+/-
selects a programme for the sub picture.
SWAP
alternates between main and sub picture.
INPUT
selects the input mode for the sub picture.
SIZE
adjusts the sub picture size.
STILL
freezes motion of the sub picture.
POSITION
relocates the sub picture in clockwise direction.
9/4 PIP
switches on or off the programme scan mode through 9 or 4 sub pictures.
- 5. PSM (Picture Status Memory)**
recalls your preferred picture setting.
- 6. SSM (Sound Status Memory)**
recalls your preferred sound setting.
- 7. VCR BUTTONS (option)**
control a LG video cassette recorder.

Location and function of controls

8. DUAL
selects the language during dual language broadcast.
selects mono sound during stereo broadcasts.

9. TV/AV
selects TV or AV mode.

10. MENU
selects a menu.

11. \uparrow/\downarrow (Programme Up/Down)
switches the set on from standby.
selects a programme or a menu item.

\ominus/\oplus (Volume Down/Up)
adjusts the volume.
adjusts menu settings.

OK
accepts your selection or displays the current mode.

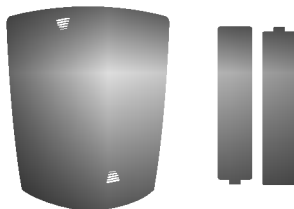
12. LIST
display the programme table.

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

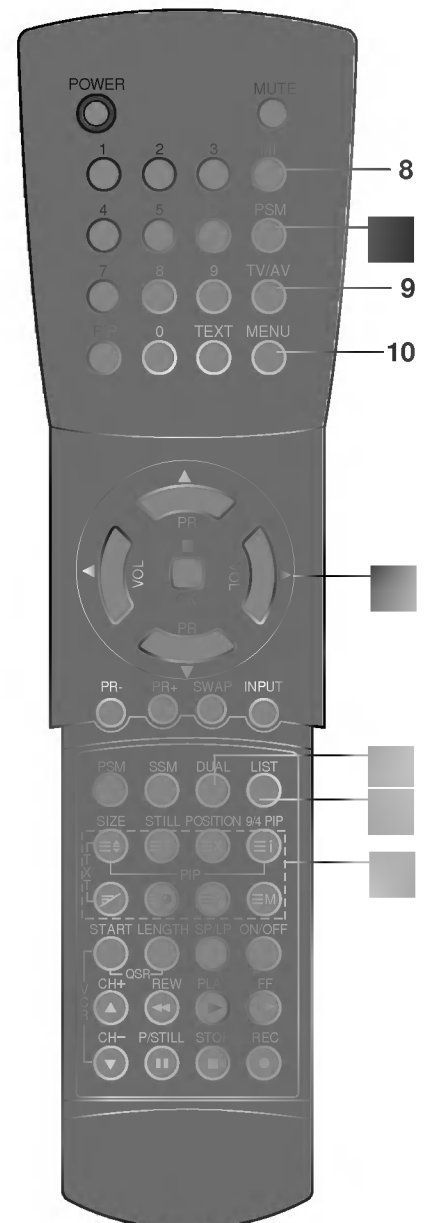
Note : In teletext mode, the **PR+/-**, **SWAP** and **INPUT** buttons are used for teletext function.

Battery installation

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

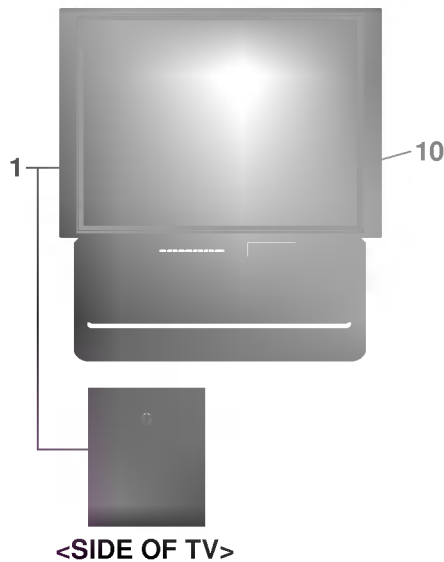


Note : To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.

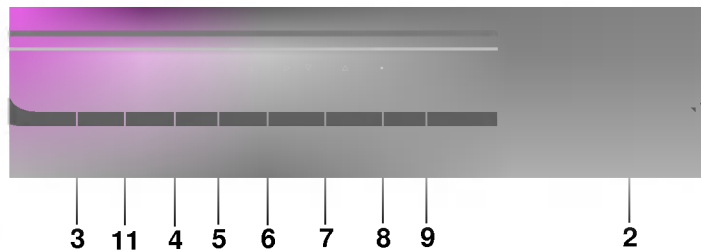


Location and function of controls

Front panel



* PF-60A30 series



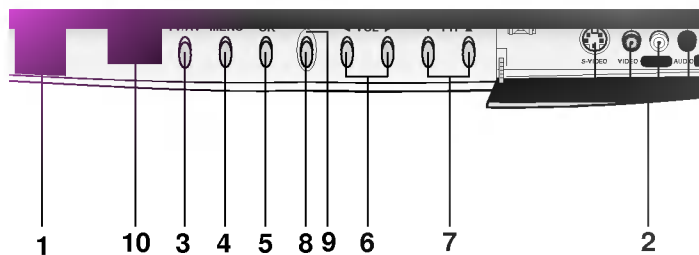
- | | |
|--|---|
| <p>1. MAIN POWER (on the side of TV)
switches the set on or off.</p> <p>2. AUDIO/VIDEO(or S-VIDEO) IN SOCKETS (AV 2)
Connect the audio/video(or S-video) out sockets of external equipment to these sockets.</p> <p>3. TV/AV
selects TV or AV mode.</p> <p>4. MENU
selects a menu.</p> <p>5. OK
accepts your selection or displays the current mode.</p> <p>6. \downarrow / \uparrow (Volume Down/Up)
adjusts the volume.
adjusts menu settings.</p> | <p>7. \leftarrow / \rightarrow (Programme Up/Down)
switches the set on from standby.
selects a programme or a menu item.</p> <p>8. POWER
switches the set on from standby or off to standby.</p> <p>9. POWER / STANDBY INDICATOR
illuminates when the set is in standby mode.
dims when the set is switched on.</p> <p>10. REMOTE CONTROL SENSOR</p> <p>11. PSM (Picture Status Memory)
recalls your preferred picture setting.
SSM (Sound Status Memory)
recalls your preferred sound setting.</p> <p>* CASTERS (on the bottom)
turn and move the set easily.</p> |
|--|---|

Location and function of controls



* PF-43A20

Front panel



1. **MAIN POWER**
switches the set on or off.
 2. **AUDIO/VIDEO(or S-VIDEO) IN SOCKETS (AV 2)**
Connect the audio/video(or S-video) out sockets of external equipment to these sockets.
 3. **TV/AV**
selects TV or AV mode.
 4. **MENU**
selects a menu.
 5. **OK**
accepts your selection or displays the current mode.
 6. **⏮ / ⏭ (Volume Down/Up)**
adjusts the volume.
 7. **⏮ / ⏭ (Programme Up/Down)**
switches the set on from standby.
selects a programme or a menu item.
 8. **POWER**
switches the set on from standby or off to standby.
 9. **POWER / STANDBY INDICATOR**
illuminates when the set is in standby mode.
dims when the set is switched on.
 10. **REMOTE CONTROL SENSOR**
- * **CASTERS (on the bottom)**
turn and move the set easily.

On and off

1. Press the main power button on the side of the set to switch the set on.
2. If the set is in standby mode, press the **POWER**, **TV/AV** or **NUMBER** buttons on the remote control handset to switch it on fully.
3. Press the **POWER** button on the remote control handset once more. The set reverts to standby.
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 on when the mains plug is replaced in the mains power socket.

Programme selection

You can select a programme number with the **NUMBER** buttons.

Volume adjustment


Press the **VOL** button to adjust the volume.

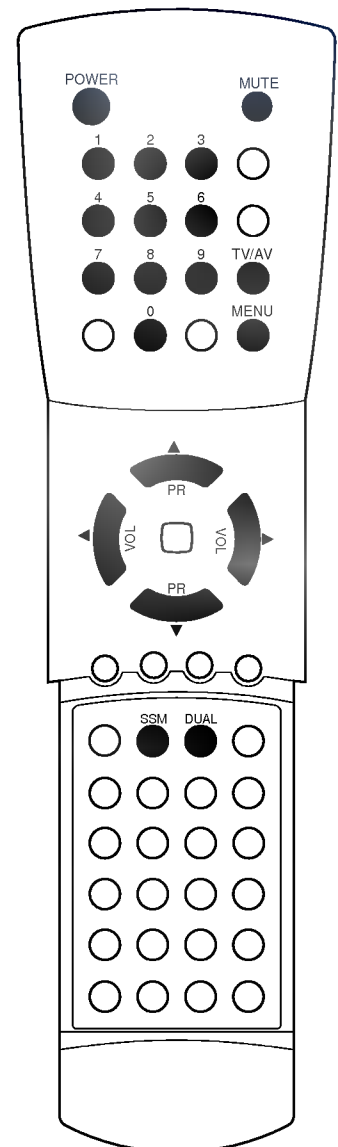
Mute function

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

On screen language selection (option)

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

1. Press the **MENU** button to display the Main menu.
2. Press the **VOL** button to select the Function menu icon .
3. Press the **OK** button to display the **Special function** menu.
4. Press the **NUMBER** button to select **Language**.
5. Set the desired language with the **VOL** button.
6. Press the **OK** button.



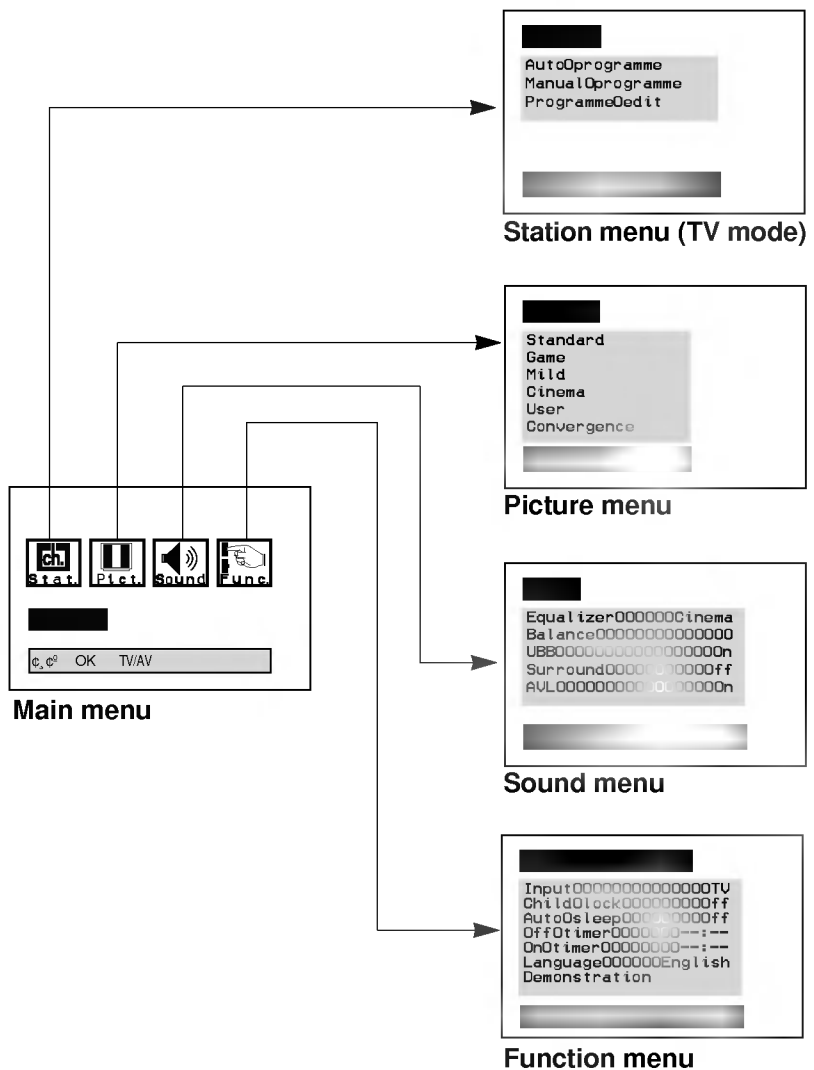
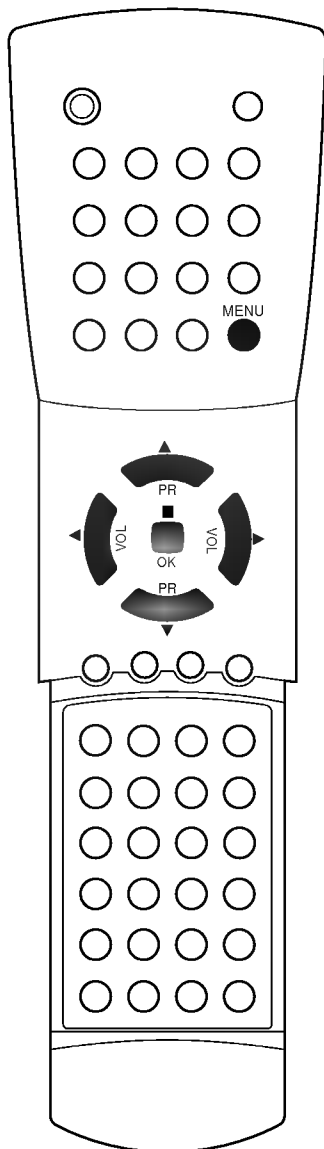
The dialogue between you and your set takes place on screen with an operator menu. The buttons required for the operating steps are also displayed.

Menu selection

1. Press the **MENU** button to display the Main menu.
2. Press the ϕ_s/ϕ° button to select each menu icon. The selected menu icon changes from green to purple.
3. Press the **OK** button to display the sub menu.
4. Press the $\grave{\text{a}}/\grave{\text{a}}$ button to select a menu item. The selected menu item changes from green to purple.
5. Press the ϕ_s/ϕ° button to change the setting of a menu item or **OK** button to display the sub menu.

Note :

- a. The menus automatically disappear in about 1 minute if you do not press a button.
- b. In the AV mode, the Station menu icon is not selected.
- c. In the teletext mode, menus are not displayed.

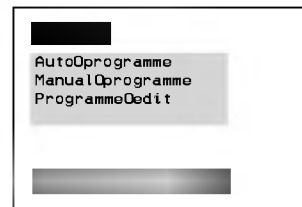


Setting up TV stations

Contents

Up to 100 TV stations can be stored in this set by programme numbers (00 to 99). Once you have preset the stations, you will be able to use the $\bar{\imath}$ / $\bar{\alpha}$ or NUMBER buttons to scan the stations you programmed.


Stations can be tuned using automatic or manual modes.

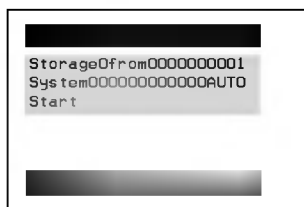


Station menu

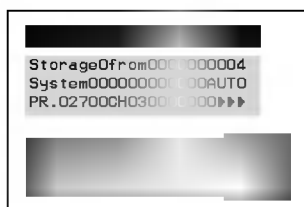
Auto programme tuning

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. Press the **MENU** button to display the Main menu.
2. Press the ϕ / ϕ° button to select the Station menu icon .
3. Press the **OK** button to display the **Station** menu.
4. Press the $\bar{\imath}$ / $\bar{\alpha}$ button to select **Auto programme**.
5. Press the **OK** button to display the **Auto programme** menu.



6. Press the $\bar{\imath}$ / $\bar{\alpha}$ button to select **Storage from**. Select the beginning programme number with the ϕ / ϕ° button or NUMBER buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
7. Press the $\bar{\imath}$ / $\bar{\alpha}$ button to select **System**. Select a TV system with the ϕ / ϕ° button; **AUTO, M, BG, I** or **DK**.
8. Press the $\bar{\imath}$ / $\bar{\alpha}$ button to select **Start**.
9. Press the **OK** button to begin auto programming.



All receivable stations are stored.

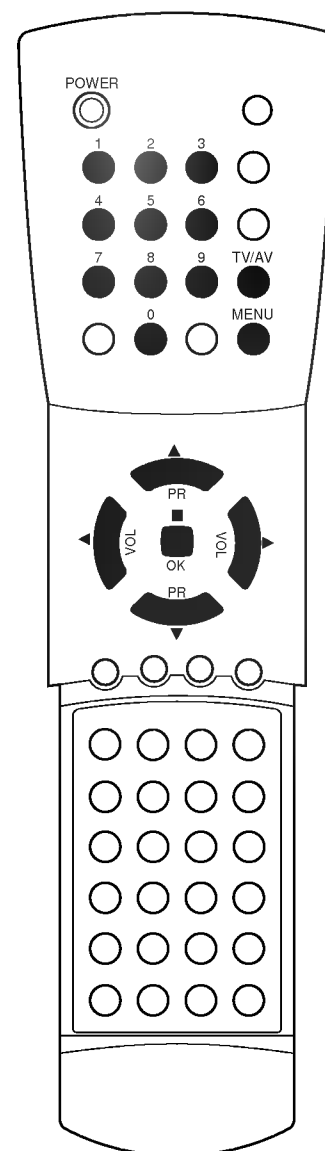
The programme number and channel number being searched appear below the display **System**. The channel number is assigned and stored with **CH** for television or **CC** for cable channels.

To stop auto programming, press the **OK** button.

When auto programming is completed, the **Programme edit** mode appears on the screen with the channel number. See the 'Programme edit' section to edit the stored programme.

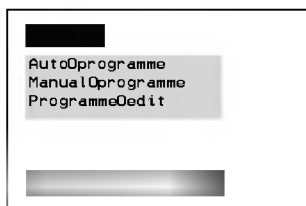
10. Press the **TV/AV** button to return to normal TV viewing.

Note: a. If there is a sound noise in some channels after auto programming is completed, re-adjust **System** to **M, BG, I** or **DK** in Manual programme tuning. Refer to 'Manual programme tuning'.
b. During auto programming is performing, pictures of scanned programmes appears through the sub picture.




Setting up TV stations

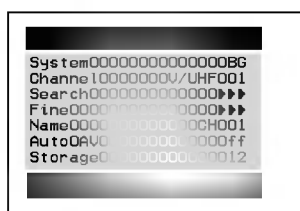
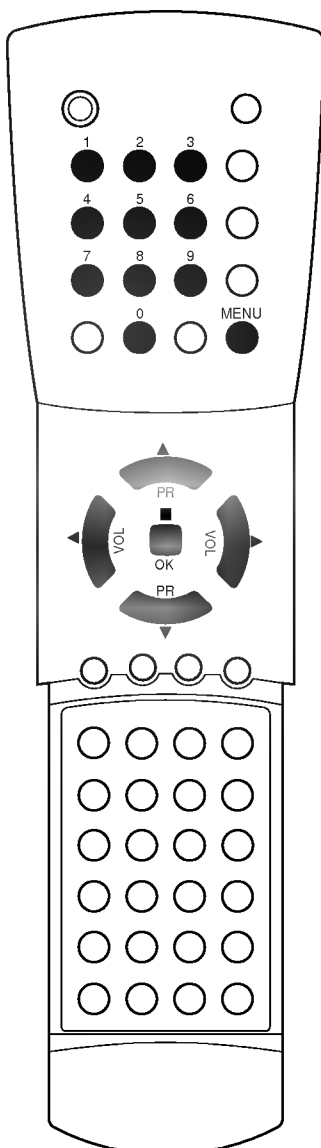
Station menu



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. Press the **MENU** button to display the Main menu.
2. Press the ϕ_s/ϕ° button to select the Station menu icon .
3. Press the **OK** button to display the **Station** menu.
4. Press the $\tilde{\alpha}/\grave{\alpha}$ button to select **Manual programme**.
5. Press the **OK** button to display the **Manual programme** menu.



6. Press the $\tilde{\alpha}/\grave{\alpha}$ button to select **System**. Select a TV system with the ϕ_s/ϕ° button; **BG,I,DK** or **M**.
7. Press the $\tilde{\alpha}/\grave{\alpha}$ button to select **Channel**. Press the ϕ_s/ϕ° button to select **V/UHF** or **CATV** as required. If possible, then select the channel number directly with the NUMBER buttons.
8. Press the $\tilde{\alpha}/\grave{\alpha}$ button to select **Search**.
9. Press the ϕ_s/ϕ° button to commence searching. If a station is found the search will stop.
10. If this station is the one required, press the $\tilde{\alpha}/\grave{\alpha}$ button to select **Storage**. Select the desired programme number with the ϕ_s/ϕ° button or NUMBER buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
11. Press the **OK** button to store it. The display **Stored** will appear.
12. To store another station repeat steps 6 to 11.

Assigning a station name

1. Press the $\tilde{\alpha}/\grave{\alpha}$ button to select **Name**.
2. To select your desired first character, press the ϕ° button then $\tilde{\alpha}$ button. You can use the alphabet **A** to **Z**, a blank, **.**, **+**, **-** and the numeric **0** to **9**.
With the $\grave{\alpha}$ button you can select in the opposite direction.
3. Select the next position by pressing the ϕ° button and then take your choice of the second character, and so on.
4. Press the ϕ° button to finish assigning a station name.
5. Press the **OK** button to store it. The display **Stored** will appear.
6. To assign another station name repeat steps 1 to 5.

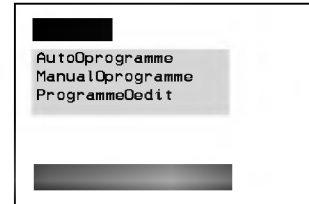
Setting up TV stations

Auto AV setting

If your VCR outputs a switching voltage when it is switched to playback, select **Auto AV On** with the VCR connected to Euro scart socket. The set is automatically switched to AV-3 mode when an AV signal is input. But if you want to keep on watching TV mode, set **Auto AV** to **Off**.

1. Press the **Auto AV** button to select **Auto AV**.
2. Press the **On/Off** button to select **On** or **Off**.
3. Press the **Storage** button to select **Storage**. Select the desired programme number with the **Number** button or **NUMBER** buttons.
4. Press the **OK** button. The display **Stored** will appear.
5. To set another programme repeat steps 1 to 4.

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



Station menu

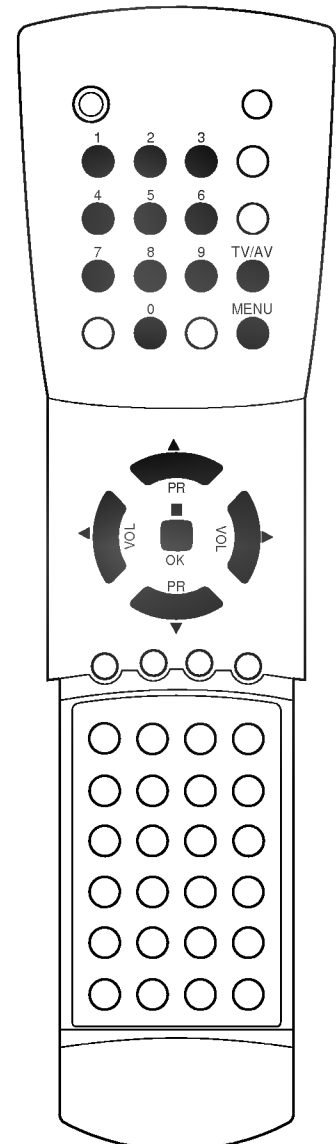
Fine tuning

Normally fine tuning is only necessary if reception is poor.

1. Repeat 'Manual programme tuning' steps 1 to 5.

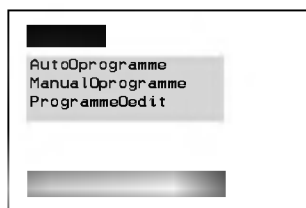


2. Press the **Fine** button to select **Fine**. Press the **Number** button to fine tune for the best picture and sound.
3. Press the **Storage** button to select **Storage**. Select the desired programme number with the **Number** button or **NUMBER** buttons.
4. Press the **OK** button. The display **Stored** will appear.
5. Press the **TV/AV** button to return to normal TV viewing.
The finely tuned programme will be indicated by yellow number during programme selection.




Setting up TV stations

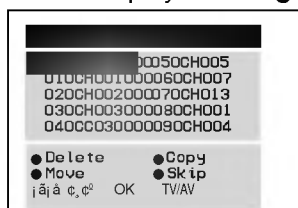
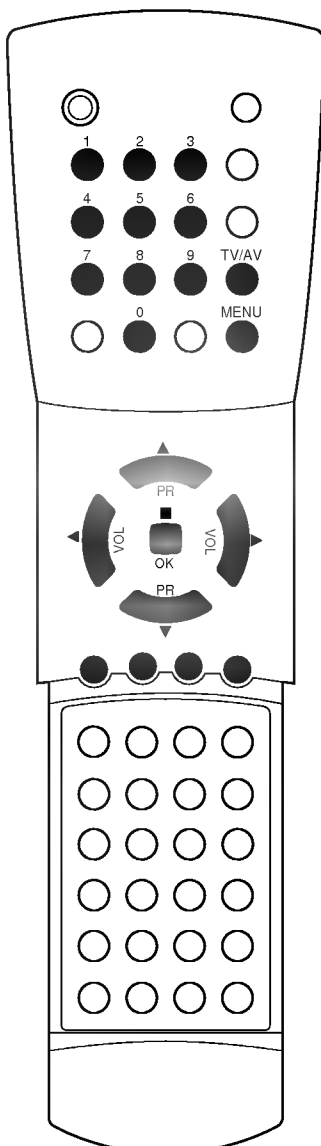
Station menu



Programme edit

This function enables you to delete or skip the stored programmes. Also you can move some stations to other programme numbers or copy to the next programme numbers.

1. Press the **MENU** button to display the Main menu.
2. Press the ϕ / ϕ° button to select the Station menu icon .
3. Press the **OK** button to display the **Station** menu.
4. Press the $\tilde{\text{a}}$ / a button to select **Programme edit**.
5. Press the **OK** button to display the **Programme edit** menu.



Deleting a programme

1. Select a programme to be deleted with the $\tilde{\text{a}}$ / a or ϕ / ϕ° button.
2. Press the RED button twice.
The selected programme is deleted and all the following programmes are shifted up one position.
3. Press the **TV/AV** button to return to normal TV viewing.

Copying a programme

1. Select a programme to be copied with the $\tilde{\text{a}}$ / a or ϕ / ϕ° button.
2. Press the GREEN button.
All the following programmes are shifted down one position.
3. Press the **TV/AV** button to return to normal TV viewing.

Moving a programme

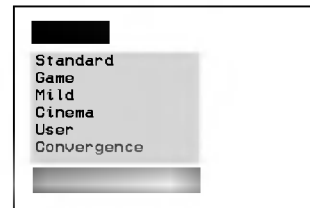
1. Select a programme to be moved with the $\tilde{\text{a}}$ / a or ϕ / ϕ° button.
2. Press the YELLOW button. The selected programme is in yellow.
3. Move the programme to the desired programme number with the $\tilde{\text{a}}$ / a button.
The selected programme moves through the programme list in the direction selected.
4. Press the YELLOW button again to release this function.
5. Press the **TV/AV** button to return to normal TV viewing.

Skipping a programme


1. Select a programme to be skipped with the $\tilde{\text{a}}$ / a or ϕ / ϕ° button.
2. Press the BLUE button.
The skipped programme turns to blue.
3. Press the BLUE button again to release the skipped programme.
The programme returns to green and the skip is cancelled.
4. Press the **TV/AV** button to return to normal TV viewing.
During programme selection, with the $\tilde{\text{a}}$ / a button the skipped programme can not be found. If you want to find the skipped programme directly enter the programme number with the NUMBER buttons or select it in the programme edit or table mode.

Picture adjustment


You can select your preferred picture setting; Standard, Game, Mild, Cinema, as you prefer. Also you can adjust picture contrast, brightness, colour intensity, sharpness and tint (NTSC input only) to the levels you prefer.

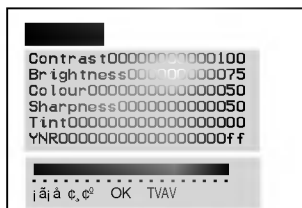




Picture menu

1. Press the **MENU** button to display the Main menu.
2. Press the  button to select the Picture menu icon.
3. Press the **OK** button to display the **Picture** menu.

Standard, Game, Mild, Cinema, User

1. Press the  button to select **Standard, Game, Mild, Cinema** or **User**.
2. Press the **OK** button.



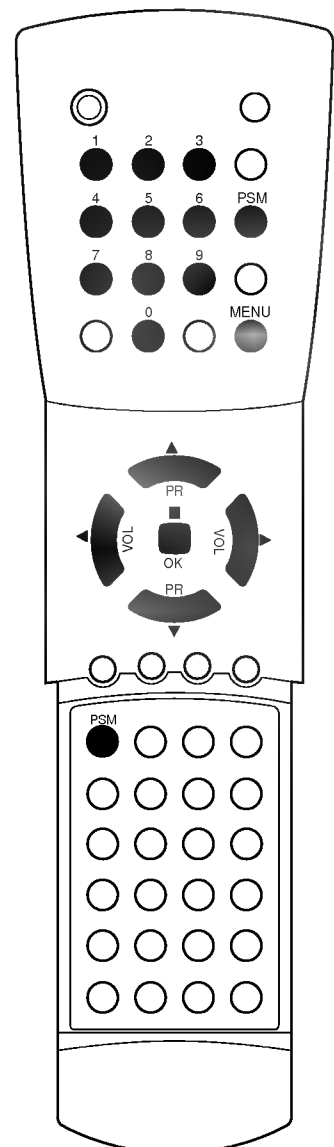
3. Press the  button to select the desired picture item.
4. Press the  button to make appropriate adjustments.
5. Press the **OK** button. These picture setting is stored in User menu.

These picture settings, except for **User**, are temporarily stored and if the TV switches off and then on, the adjusted level returns to the factory preset settings.

Note :

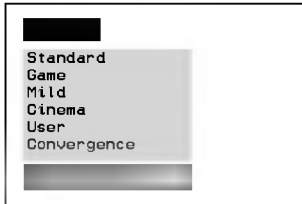
- Tint** can be selected for the NTSC only.
- The picture item **YNR** reduces picture noise if you select **On**.

To recall your preferred setting, press the **PSM** button until the desired picture (**Standard, Game, Mild, Cinema, User**) appears. **Standard, Game, Mild** and **Cinema** are programmed at the factory for good picture reproduction appropriate to each programme character.



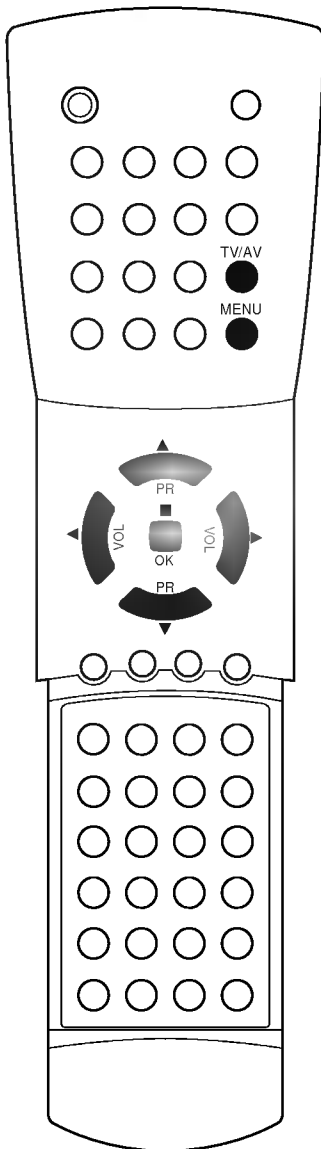
Picture adjustment

Picture menu



Convergence

This function enables you to adjust the colour convergence of screen during receiving the signals. When the set is first installed or it is relocated, the picture may be unstable with three colour ghosts (red, green, blue). This problem can be solved by adjusting the colour convergence.



1. Press the **Convergence** button to select **Convergence**.
2. Press the **OK** button to display the Convergence mode.
If the display **+** are unstable with three colour ghosts, the colour convergence needs to be adjusted.

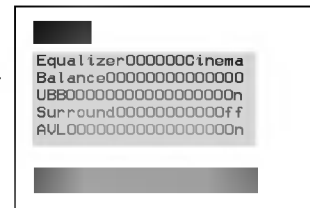


If the display is white, colour convergence adjustment is not necessary.


3. Press the **OK** button to adjust the colour convergence.
The display **OK TV/AV** is selected in red.
Press it again to select the display **OK TV/AV** in blue.
4. Press the **OK** and **TV/AV** buttons to superimpose the display **+** (red or blue) with the green one.
The display **+** is moved to the left, right, up or down by pressing the **TV/AV**, **Left**, **Right**, **Up**, **Down** buttons.
5. If the red and blue display **+** are superimposed with the green one, the display **+** will be changed to yellow or cyan.
6. Press the **TV/AV** button to return to normal TV viewing.

Sound adjustment

You can select your preferred sound setting; Cinema, Sports, Music, Speech, as you prefer. Also you can adjust the sound frequency to the levels you prefer. The surround sound creates an all around sound as in a concert hall and UBB(Ultra Bass Booster) stress and emphasizes heavy sound and AVL(Auto Volume Leveller) automatically keeps on an equal volume level even if you change programmes.



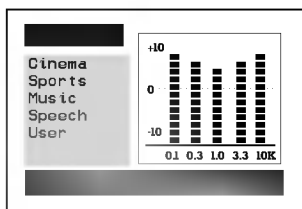
Sound menu

1. Press the **MENU** button to display the Main menu.
2. Press the c/c° button to select the Sound menu icon .
3. Press the **OK** button to display the **Sound** menu.

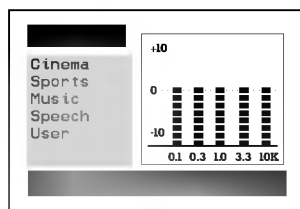
Equalizer

1. Press the a/a° button to select **Equalizer**.
2. Press the c/c° button to select **Cinema, Sports, Music, Speech** or **User**.
3. Press the **OK** button

In case of **Cinema, Sports, Music, Speech**, each corresponding equalizer is displayed on the screen. **Cinema, Sports, Music** and **Speech** are programmed at the factory for good



(Cinema, Sports, Music, Speech)



(User)

sound reproduction appropriate to each programme character.

In case of **User**, select the sound band with the c/c° button and make appropriate sound level with the a/a° button as you prefer.

4. Press the **OK** button. In case of **User** only, the display **Stored** will appear.

Balance

1. Press the a/a° button to select **Balance**.
2. Press the c/c° button to adjust the balance level.
3. Press the **OK** button. The display **Stored** will appear.

UBB

1. Press the a/a° button to select **UBB**.
2. Press the c/c° button to select **On** or **Off**.
3. Press the **OK** button. The display **Stored** will appear.

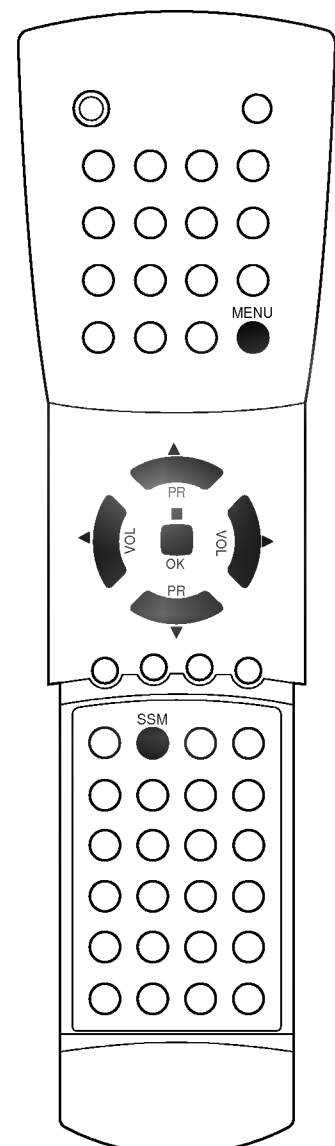
Surround

1. Press the a/a° button to select **Surround**.
2. Press the c/c° button to select **On** or **Off**.
3. Press the **OK** button. The display **Stored** will appear.

AVL

1. Press the a/a° button to select **AVL**.
2. Press the c/c° button to select **On** or **Off**.
3. Press the **OK** button. The display **Stored** will appear.

To recall your preferred setting, press the **SSM** button until the desired sound (**Cinema, Sports, Music, Speech, User**) appears.

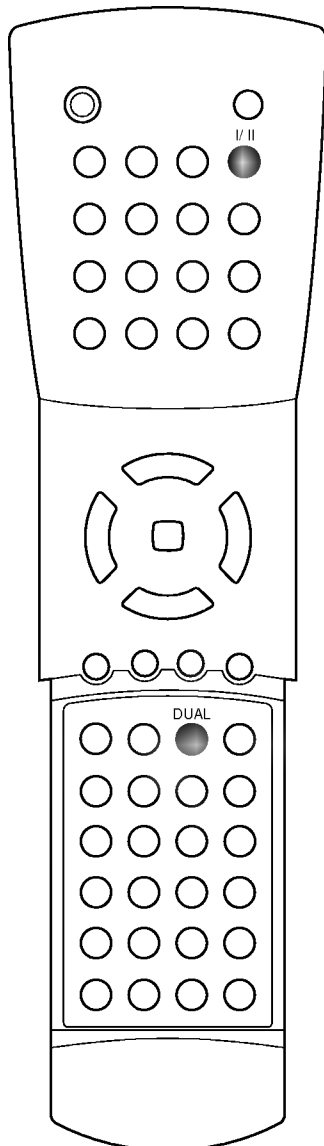


Sound adjustment

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 **DUAL** button. In mono reception the depth of sound is improved. To switch back to stereo, press the **DUAL** button again.

Language selection for dual language broadcast

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

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 **DUAL** 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 **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.

L+R : Audio signal from audio L input is sent to left loudspeaker 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.

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.

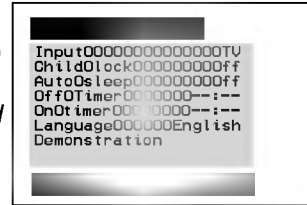
Note : When a VCR is connected via the aerial socket the set is used in TV mode. See the 'Connection of external equipment' section.

1. Press the **MENU** button to display the Main menu.
2. Press the ϕ/ϕ^2 button to select the Function menu icon .
3. Press the **OK** button to display the **Special function** menu.
4. Press the $\grave{\text{a}}/\grave{\text{a}}^2$ button to select **Input**.
5. Press the ϕ/ϕ^2 button to select **TV, AV1, AV2, AV3 SAV1 or SAV2**.

The five AV modes are :

- AV 1 : VCR connected to the **AV1** sockets on the back
- AV 2 : VCR connected to the **AV2** sockets on the front panel
- AV 3 : VCR connected to the Euro scart socket on the back
- SAV1 : VCR connected to the **AUDIO** and **S-VIDEO** sockets on the back panel
- SAV2 : VCR connected to the **AUDIO** and **S-VIDEO** sockets on the front panel


6. Press the **OK** or **TV/AV** button.
To return to TV mode from AV mode press the $\grave{\text{a}}/\grave{\text{a}}^2$ or NUMBER buttons.
Alternatively you can select the TV or AV mode by pressing the **TV/AV** button.



Special function menu

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 unauthorised viewing.

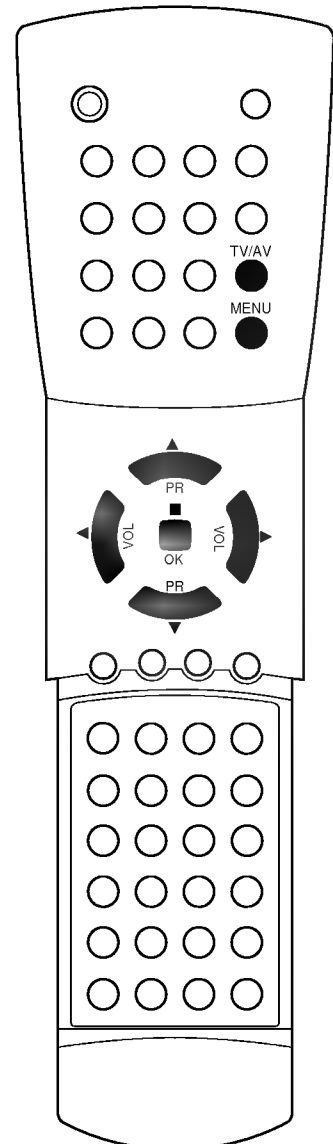
1. Press the **MENU** button to display the Main menu.
2. Press the ϕ/ϕ^2 button to select the Function menu icon .
3. Press the **OK** button to display the **Special function** menu.
4. Press the $\grave{\text{a}}/\grave{\text{a}}^2$ button to select **Child lock**.
5. Press the ϕ/ϕ^2 button on the remote control handset to select **On**.
6. Press the **OK** or **TV/AV** button to return to normal TV viewing.

With the lock on, the display **Child lock** appears on the screen if any button(with the exception of ϕ/ϕ^2 button) on the front panel is pressed while viewing the TV.

Auto sleep

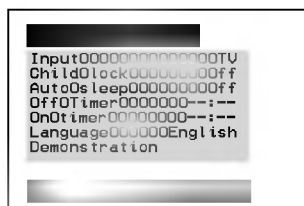
If you select **Auto sleep On** the set will automatically switch itself to standby mode approximately ten minutes after a TV station stops broadcasting.

1. Press the **MENU** button to display the Main menu.
2. Press the ϕ/ϕ^2 button to select the Function menu icon .
3. Press the **OK** button to display the **Special function** menu.
4. Press the $\grave{\text{a}}/\grave{\text{a}}^2$ button to select **Auto sleep**.
5. Press the ϕ/ϕ^2 button on the remote control handset to select **On**.
6. Press the **OK** or **TV/AV** button to return to normal TV viewing.




Other functions

Special function menu




Off timer

The off timer automatically switches the set to standby after the preset time elapses.

1. Press the **MENU** button to display the Main menu.
2. Press the ϕ / ϕ^2 button to select the Function menu icon .
3. Press the **OK** button to display the **Special function** menu.
4. Press the $\grave{\text{a}}/\grave{\text{a}}$ button to select **Off timer**.
5. Set the desired time period with the ϕ / ϕ^2 button.
6. Press the **OK** or **TV/AV** button to return to normal TV viewing.

On timer

The set automatically switches on after the preset time elapses.

1. Press the **MENU** button to display the Main menu.
2. Press the ϕ / ϕ^2 button to select the Function menu icon .
3. Press the **OK** button to display the **Special function** menu.
4. Press the $\grave{\text{a}}/\grave{\text{a}}$ button to select **On timer**.
5. Set the desired time period with the ϕ / ϕ^2 button.
6. Press the **OK** or **TV/AV** button to return to normal TV viewing.


You can set the on/off timer from 10 minutes up to 12 hours 50 minutes in 10 minutes steps. The timer begins to count down from the selected time period.

Note :

- a. This set must be put into standby mode with the **POWER** button on the remote control to operate the on timer function.
- b. Two hours after the set is switched on by the on timer function it will automatically switch back to standby mode unless a button has been pressed.
- c. To view the remaining on/off time, select the **Special function** menu.
- d. To cancel the set on/off time, set the on/off timer to --:--.
- e. When you switch the main power off, the on/off time is reset.

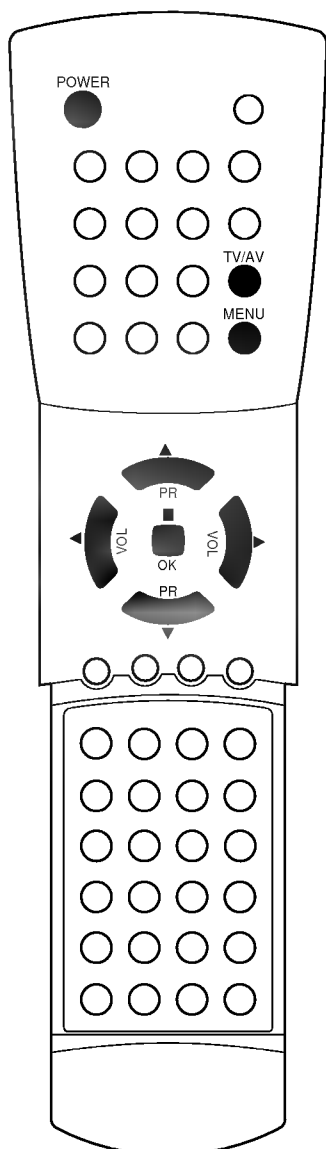
Auto demonstration

Auto demonstration allows you to review all the menus programmed in the set.

1. Press the **MENU** button to display the Main menu.
2. Press the ϕ / ϕ^2 button to select the Function menu icon .
3. Press the **OK** button to display the **Special function** menu.
4. Press the $\grave{\text{a}}/\grave{\text{a}}$ button to select **Demonstration**.
5. Press the **OK** button to start the demonstration.

When the demonstration reaches the last display, it starts again from the beginning.

To stop auto demonstration, press any button.



Other functions

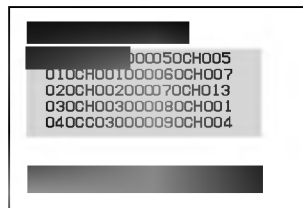
Calling a programme table

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

Displaying programme table

Press the **LIST** button.

The programme table appears on the screen. One programme table contains ten programmes as below.



Note :

- You may find some blue programmes. They are skipped in the Programme edit mode.
- Some programme numbers with the mark ---- shown in the programme table indicate there is no station name assigned.

Selecting a programme in the programme table

Select upper or lower programme with the \uparrow/\downarrow button and left or right programme with the \leftarrow/\rightarrow button. The colour of normal programmes is green and skipped programme is blue.

Then press the **OK** button.

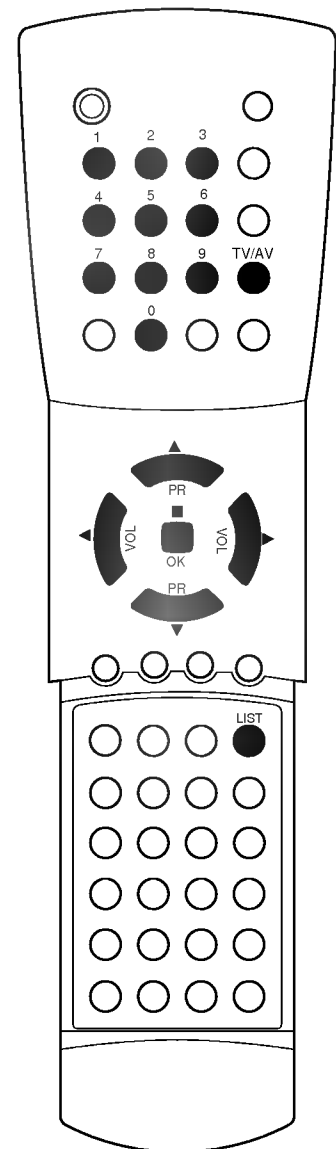
The set switches to the chosen programme number.

Paging through a programme table

There are ten programme table pages in which contain 100 programmes. Pressing the \uparrow/\downarrow or \leftarrow/\rightarrow button repeatedly turns the pages.

Switching back to TV mode

Press the **TV/AV** or **NUMBER** buttons during programme table mode.



PIP operation (option)

[Contents](#)

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.

On and off

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

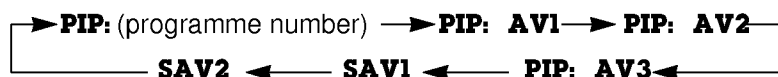
Programme selection for sub picture

Press the **PR +/-** buttons. The selected programme number is displayed at the left upper side of sub picture.

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 at the left upper side of sub picture.



Swapping between main and sub pictures

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

Sub picture size

Repeatedly press the **SIZE** button to select the desired sub picture size. The sub picture appears as 1/4 size of the main picture, followed by 1/9.

Sub picture freeze

Press the **STILL** button to freeze motion of the sub picture.
Press this button again to restore motion.

Sub picture position change

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

Programme scan

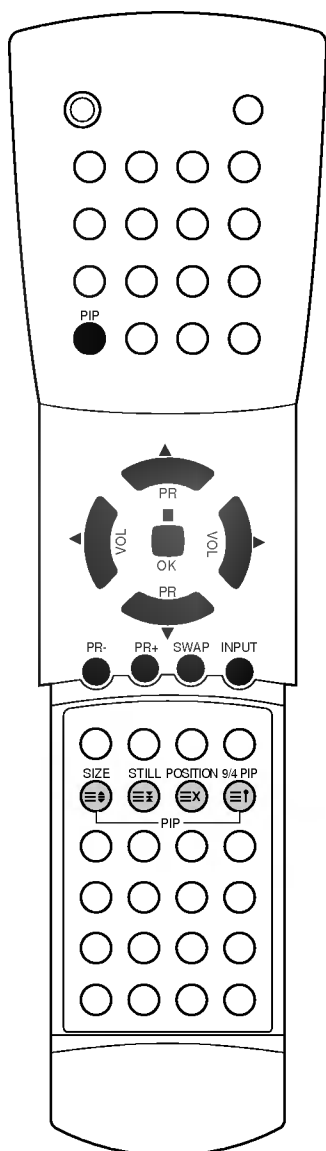
This function enables you to search all the stored stations on 9 or 4 sub pictures and see your favorite station by exchanging the main and sub pictures.

Press the **9/4 PIP** button. 9 sub pictures appear and search all the stored stations.

Press this button again. At this time 4 sub pictures search them.

Press the **9/4 PIP** button once more. The 9 or 4 sub pictures switch off.

If you press the **SWAP** button while the desired station is being searched, the main and sub picture are exchanged so the station being searched appears on the main picture.



Teletext 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 LIST, TOP and FASTEXT systems. 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.


Switch on/off

Press the **TEXT** button to switch to teletext. The initial page or last selected page appears on the screen.



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

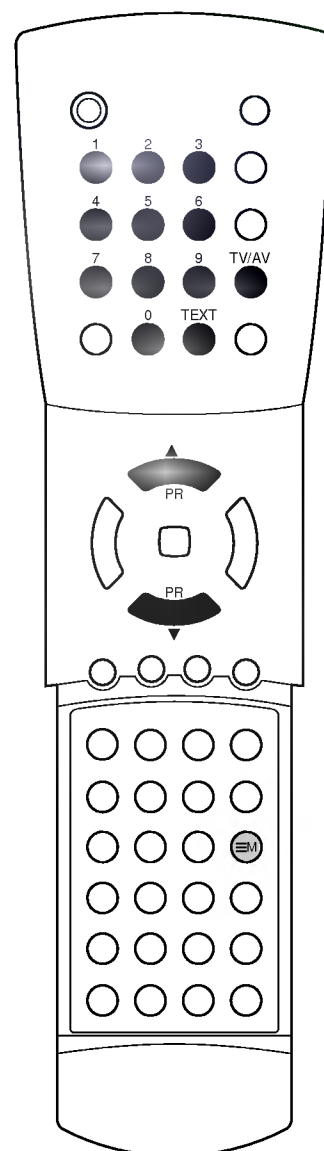
Press the **TEXT** or **TV/AV** button to switch off teletext. The previous mode reappears.

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.
2. The   button can be used to select the preceding or following page.

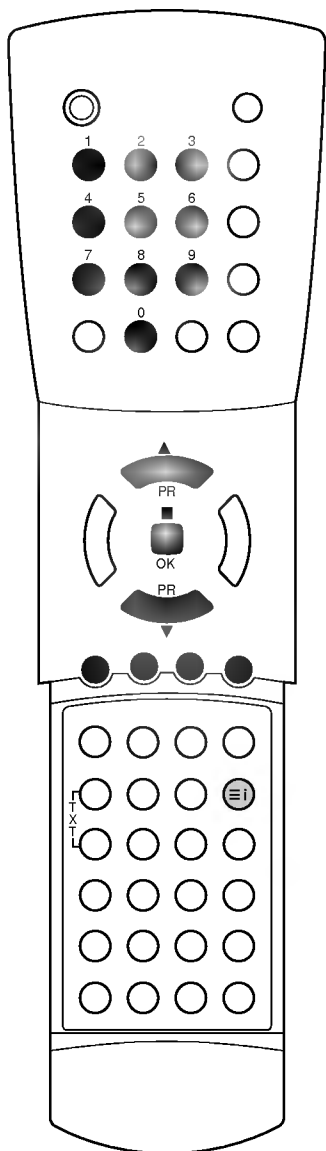


Teletext (option)

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 colour 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

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.

Group/block/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 \uparrow button can be used.
4. The RED button permits to return to previous selection. Alternatively the \downarrow button can be used.

Direct page selection

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

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 its three digit page number with the NUMBER buttons in FASTEXT mode.
4. The \uparrow / \downarrow 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.



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

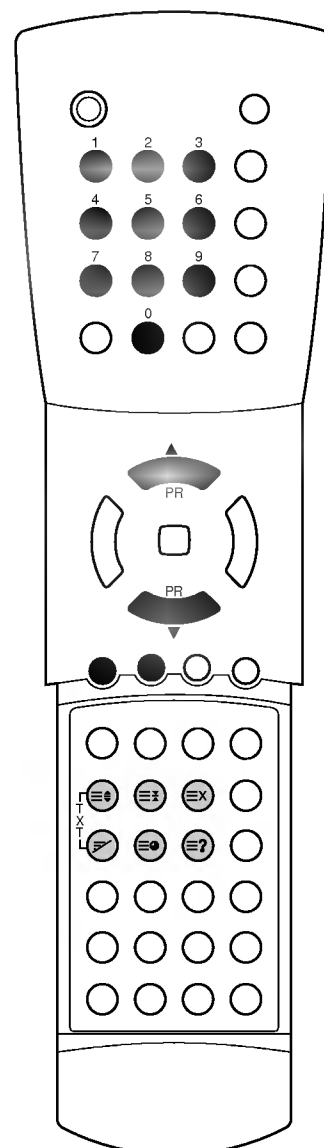
Displays the teletext pages superimposed on the TV picture.

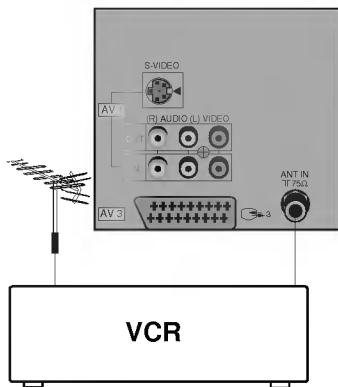
To switch the TV picture off press this button again.



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 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.

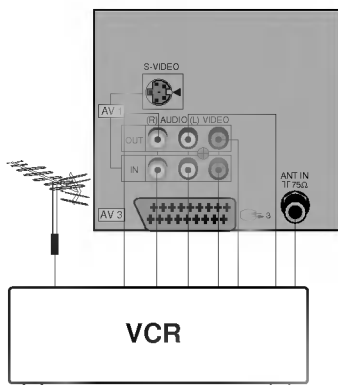




You can connect additional equipment, such as VCRs, camcorders etc. to your set. Here shown may be somewhat different from your set.

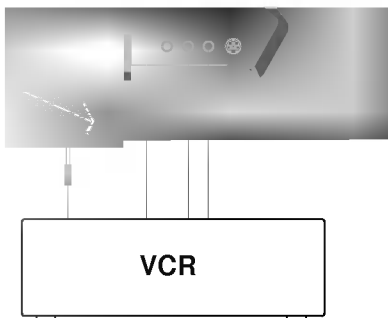
Aerial socket

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 channel 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 on the back of the set, press the **TV/AV** button to select **AV1**. You should select **AV2** if the VCR is connected to the **AV2** sockets on the front of the set.
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.

Euro scart socket

1. Connect the Euro scart socket of the VCR to the Euro scart socket on the back of the set.
2. Press the **PLAY** button on the VCR.
If your VCR outputs a switching voltage connect to Euro scart socket. If **AUTO AV : ON** is selected, the set will switch to AV3 mode automatically. Otherwise, press the **TV/AV** button on the remotecontrol handset to select **AV3**.
The VCR playback picture appears on the screen.

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

Connection of external equipment

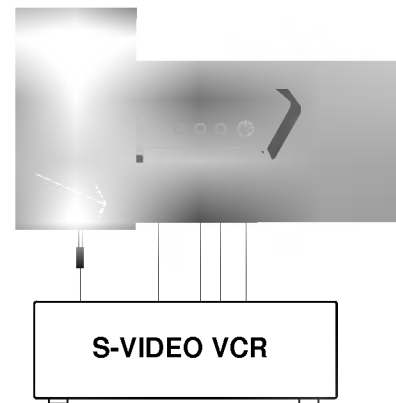
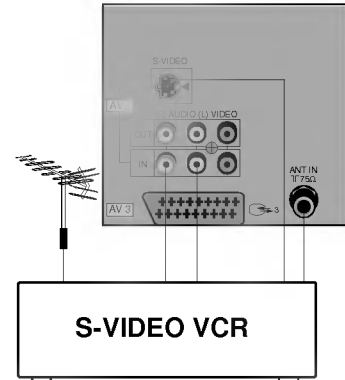
S-video/Audio in sockets (S-AV)

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 S-VHS VCR to the **S-VIDEO** socket on the front or back of the set.
2. Connect the audio cable from the S-VHS VCR to the **AUDIO IN** sockets on the front or back of the set.
3. If the S-VHS VCR is connected to the AV 1 sockets on the back of the set, press the **TV/AV** button to select **AV1**. You should select **AV2** if the S-VHS VCR is connected to the AV 2 sockets on the back of the set.
4. Press the **PLAY** button on the VCR.
The VCR playback picture appears on the screen.

Note :

- a. If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO L (MONO)** socket on the front panel of the set.
- b. If both **S-VIDEO** and **VIDEO** sockets have been connected to the S-VHS VCR simultaneously, only the **S-VIDEO** can be received.



Troubleshooting check list

Contents

Symptoms

No picture, no sound

Sound OK, poor picture

Picture OK, poor sound

Picture blurred

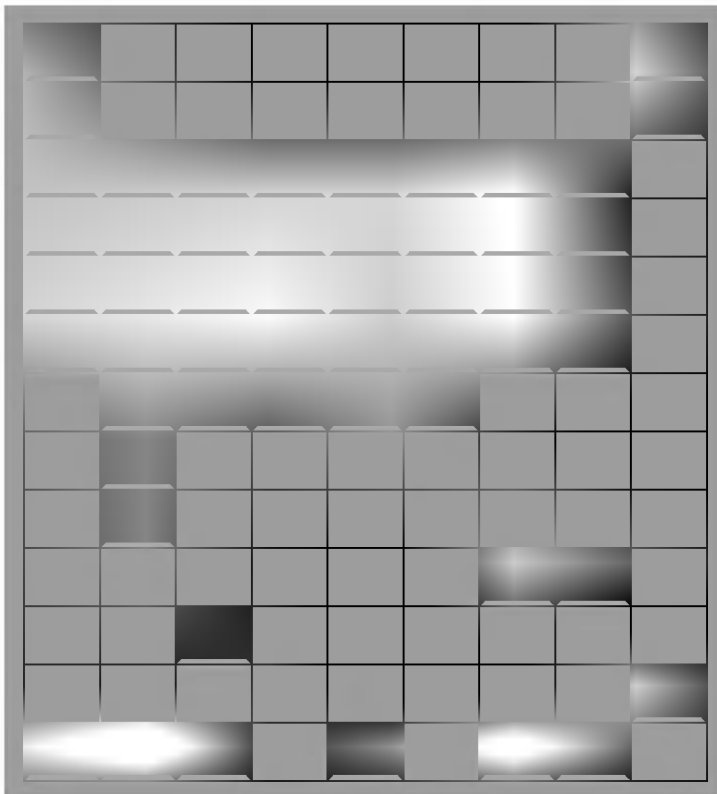
Lines or streaks in picture

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)