



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 :



Contents

| | |
|--|-----------|
| Installation | 3 |
| Location and function of controls | 4 |
| Remote control handset | |
| Battery installation / Front panel | |
| Basic operation | 7 |
| On and off / Programme selection | |
| Volume adjustment / Quick view | |
| Mute function | |
| On screen language selection (option) | |
| On screen menus | 8 |
| Menu selection | |
| Setting up TV stations | 9 |
| Auto programme tuning | |
| Manual programme tuning | |
| Programme edit | |
| Favourite programme | |
| Calling the programme table | |
| Picture adjustment | 15 |
| PSM (Picture Status Memory) / XD (option) | |
| CSM (Colour Status Memory) | |
| Picture adjustment / Eye (option) | |
| Sound adjustment (option) | 17 |
| SSM (Sound Status Memory) | |
| Turbo sound selection (option) | |
| Sound adjustment | |
| X-WAVE (Wireless Sound) (option) | |
| Sound output selection (option) | |
| Stereo/Dual reception (option) | |
| NICAM reception (option) | |
| Time setting | 20 |
| Setting the clock | |
| Setting the On/Off timer | |
| Auto off | |
| Other functions | 21 |
| TV and AV modes / Auto AV switching (option) | |
| Child lock / Blue back (option) | |
| Games (option) / Sleep timer | |
| Connection of external equipment | 24 |
| Aerial socket | |
| Audio/Video in/out sockets (option) | |
| Euro scart socket (option) | |
| S-video/Audio in sockets (S-AV) (option) | |
| Component in sockets (option) | |
| Headphone socket (option) | |
| Troubleshooting check list | 27 |

Installation

Power

This set operates on an AC mains supply, the voltage is as indicated on the label on the back cover. Never apply DC power to the set. In the event of thunderstorms or powercuts, please pull out the aerial and mains plugs.

Warning

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

Do not place anything containing liquid on top of the set, this may cause a fire or could give an electric shock.

Service

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

Aerial

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

Location

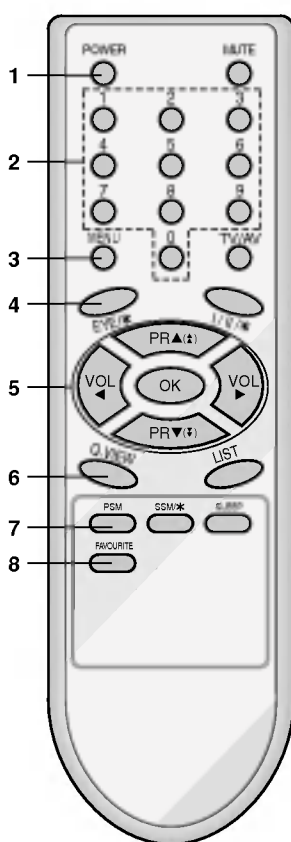
Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on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

Location and function of controls

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

Remote control handset

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



- 1. POWER**
switches the set on from standby or off to standby.
- 2. NUMBER BUTTONS**
switches the set on from standby or directly select a number.
- 3. MENU**
selects a menu.
- 4. EYE/* (option)**
switches the eye function on or off.
- 5. ▲ (▲) / ▼ (▼) (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
scans programmes automatically.
◀ / ▶ (Volume Up/Down)
adjusts the volume.
adjusts menu settings.
OK
accepts your selection or displays the current mode.
- 6. Q.VIEW**
returns to the previously viewed programme.
- 7. PSM (Picture Status Memory)**
recalls your preferred picture setting.
- 8. FAVOURITE**
selects a favorite programme.

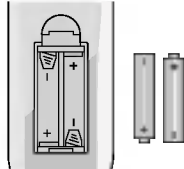
Location and function of controls

- 9. MUTE**
switches the sound on or off.
- 10. TV/AV**
selects TV or AV mode.
switches the set on from standby.
- 11. I/II/* (option)**
selects the language during dual language broadcast. (option)
selects the sound output.
- 12. LIST**
displays the programme table.
- 13. SLEEP**
sets the sleep timer.
- 14. SSM/* (Sound Status Memory) (option)**
recalls your preferred sound setting.

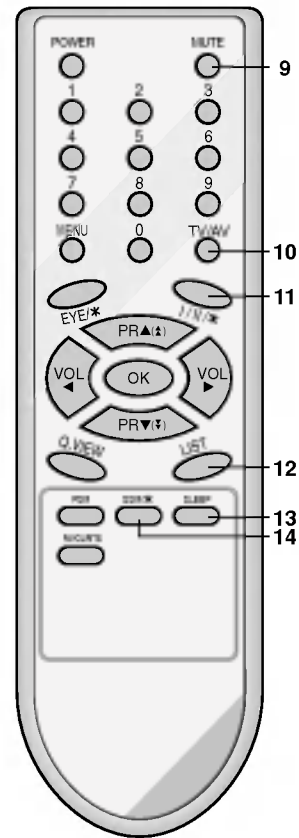
COLOURED BUTTONS : These buttons are used for teletext (only TELETEXT models) or programme edit.

Battery installation

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



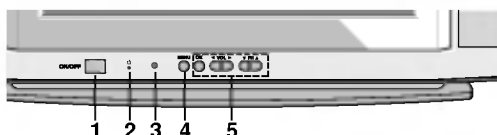
Note : To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.



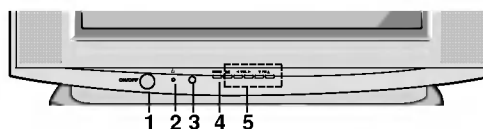
Location and function of controls

Front panel

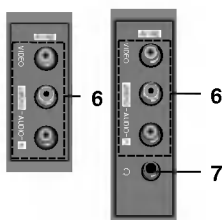
21FS2 series



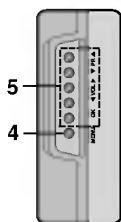
21FS4 series



21FD7 series



Side panel



1. **MAIN POWER (ON/OFF)**
switches the set on or off.
2. **POWER/STANDBY INDICATOR**
illuminates brightly when the set is in standby mode.
dims when the set is switched on.
3. **REMOTE CONTROL SENSOR**
Note : Only use the supplied remote control handset. (When you use others, they'll be not able to function.)
4. **MENU**
selects a menu.
5. **OK**
accepts your selection or displays the current mode.
◀ / ▶ (**Volume Up/Down**)
adjusts the volume.
adjusts menu settings.
▲ / ▼ (**Programme Up/Down**)
selects a programme or a menu item.
switches the set on from standby.
6. **AUDIO/VIDEO IN SOCKETS (AV IN2) (option)**
Connect the audio/video out sockets of external equipment to these sockets.
7. **HEADPHONE SOCKET (option)**
Connect the headphone plug to this socket.

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

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** 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 previous programme you were watching.

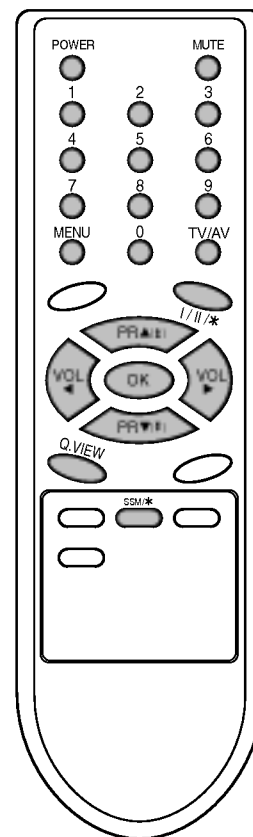
Mute function

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.

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 and then **▲ / ▼** button to select the Special menu.
2. Press the **▶** 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 Special menu.
4. Repeatedly press the **MENU** button to return to normal TV viewing.



On screen menus

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

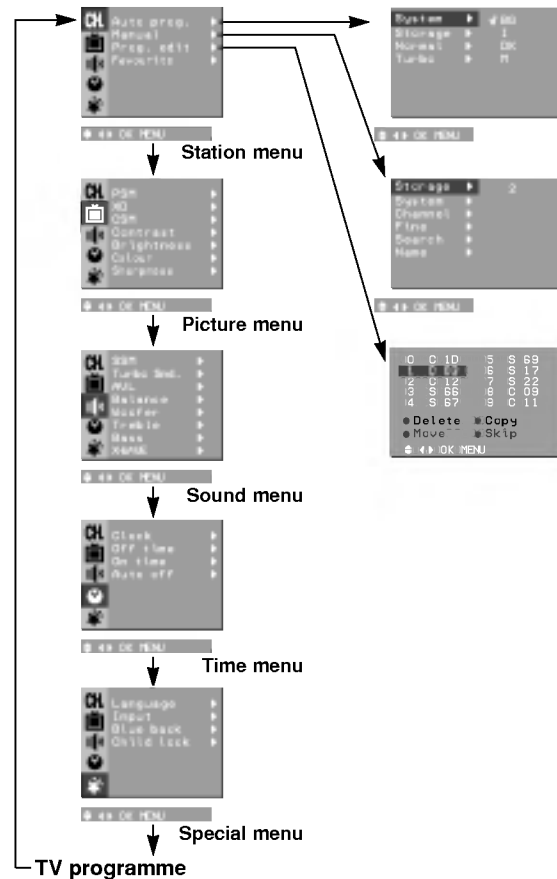
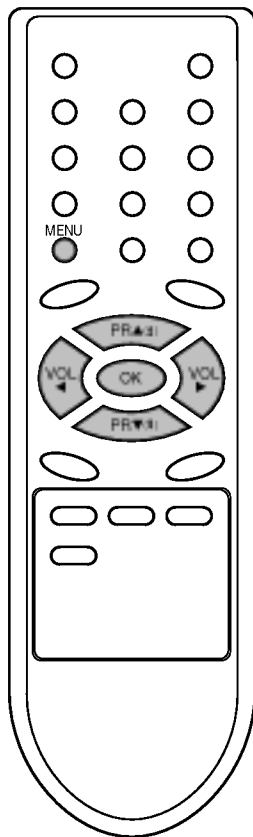
Menu selection

1. Press the **MENU** button and then **▲** / **▼** button to display each menu.
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 with **OK** or **◀** button and to move to the lower level menu press the **▶** button.

Note :

- a. In mono models, the **Sound** menu does not appear.
- b. In some models, **XD** will not display in the **Picture** menu.
- c. In some models, **Turbo Snd.**, **AVL**, **Balance**, **Woofer**, **X-WAVE** or **Treble**, **Bass** will not display in the **Sound** menu.
- d. In some models, **Language**, **Blue back**, **Game**, **Booster** will not display in the **Special** menu.



Setting up TV stations

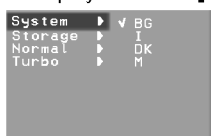
Up to 100 TV stations can be stored by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the ▲ / ▼ or NUMBER buttons to scan the stations you programmed. Stations can be tuned using automatic or manual modes.

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

Auto programme tuning

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

1. Press the **MENU** button to select the Station menu.
2. Press the ► button and then ▲ / ▼ button to select **Auto prog.**
3. Press the ► button to display the **Auto prog.** menu.

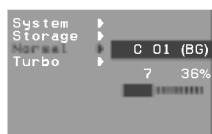


4. Press the ► button. Select a TV system with the ▲ / ▼ button on the **System** pull-down menu;
 - BG** : (Asia/New Zealand/M.East/Africa/Australia)
 - I** : (Hong Kong/South Africa)
 - DK** : (East Europe/China/Africa/CIS)
 - M** : (USA/Korea/Philippines) (option)
5. Press the **OK** or ◀ button.
6. Press the ▲ / ▼ button to select **Storage**.
7. Press the ► button. Select the beginning programme number with the ◀ / ► button or NUMBER buttons on the **Storage from** pull-down menu. Any number under 10 is entered with a numeric '0' (or '00') in front of it, i.e. '05' (or '005') for 5.
8. Press the **OK** button.
9. Press the ▲ / ▼ button to select **Normal** or **Turbo**.

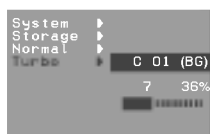
Option: In some models, you can only select **Start**.

Note :

- a. **Turbo** is faster than **Normal** and in some models, these searches will automatically store all receivable stations.
- b. If the programmed station has poor quality sound, select the system again in the **Manual** menu.



(Normal search)

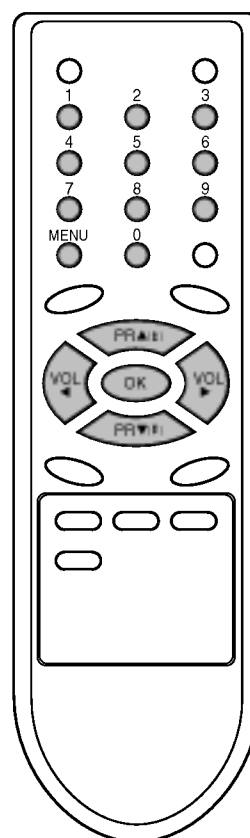


(Turbo search)

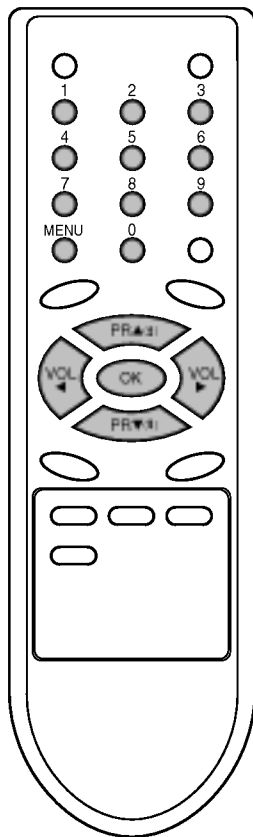
10. Press the ► button to begin auto programming. All receivable stations are stored. To stop auto programming, press the **MENU** button. When auto programming is completed, the **Prog. edit** menu appears on the screen. See the 'Programme edit' section to edit the stored programme.
11. Repeatedly press the **MENU** button to return to normal TV viewing.



◀ ▶ OK MENU



Setting up TV stations



Auto programme scan

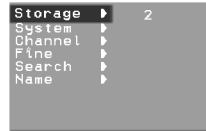
To automatically scan the pictures of stored programmes, press the **▲**(▲) or **▼**(▼) button for about 3 seconds. The picture of stored programmes appears on the screen one by one.

To stop auto programme scanning, press any button except VCR buttons.

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 select the Station menu.
2. Press the **▶** button and then **▲** / **▼** button to select **Manual**.
3. Press the **▶** button to display the **Manual** menu.



◀ ▶ OK MENU

4. Press the **▲** / **▼** button to select **Storage**.
5. Press the **▶** button to select the programme number. Select the desired programme number (0 to 99) with the **◀** / **▶** button or **NUMBER** buttons on the **Storage** pull-down menu. Any number under 10 is entered with a numeric **'0'** (or **'00'**) in front of it, i.e. **'05'** (or **'005'**) for 5.
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'** (or **'00'**) in front of it, i.e. **'05'** (or **'005'**) 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.



Stored

16. To store another station, repeat steps 4 to 15.
17. Repeatedly press the **MENU** 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 take your choice of the second character, and so on.
6. Press the **OK** button.
7. Repeatedly press the **MENU** button to return to normal TV viewing.

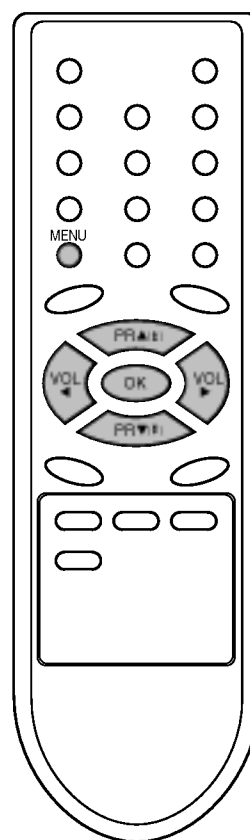


Booster (option)

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

If the reception is poor at the fringe area of TV signal, select **Booster to On**. When the picture condition is good, do not select **Booster to On**.

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



Setting up TV stations



Programme edit

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

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

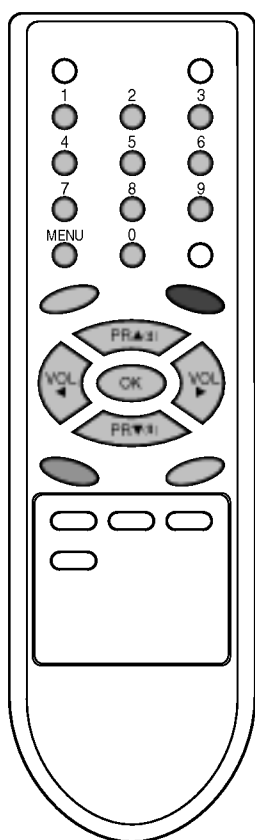
1. Select a programme to be moved with the **▲ / ▼** or **◀ / ▶** button.
2. Press the **YELLOW** button.
3. Move the programme to the desired programme number with the **▲ / ▼** or **◀ / ▶** button.
4. Press the **YELLOW** button again to release this function.



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.

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



Setting up TV stations

Favourite programme

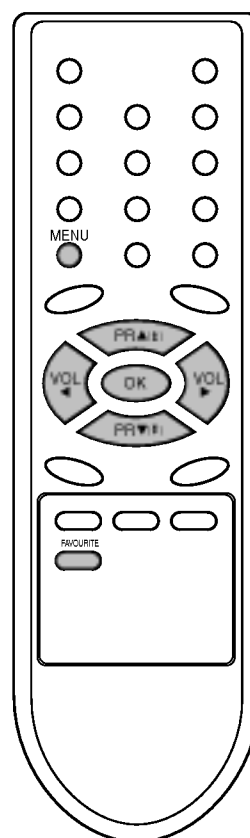
This function lets you select your favourite programmes directly.

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



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

Repeatedly press the **FAVOURITE** button to select stored favourite programmes.



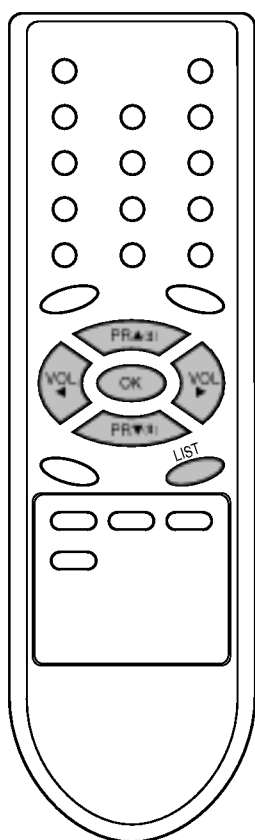
Setting up TV stations

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.



| | | | |
|---|------|----|----|
| 0 | C | 10 | 69 |
| 1 | C | 11 | 17 |
| 2 | C | 12 | 22 |
| 3 | 500C | 13 | 09 |
| 4 | 500C | 14 | 11 |
| | 500C | 15 | |
| | 500C | 16 | |
| | 500C | 17 | |
| | 500C | 18 | |
| | 500C | 19 | |

OK MENU

Note :

- You may find some blue programmes. They have been set up to be skipped by auto programming or in the programme edit mode.
- 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 (or 20) programme table pages which contain 100 (or 200) programmes. Pressing the **▲ / ▼** or **◀ / ▶** button repeatedly turns the pages.

Press the **LIST** button to return to normal TV viewing.

Picture adjustment

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

PSM (Picture Status Memory)

1. Press the **MENU** button and then **▲ / ▼** button to select the Picture menu.
2. Press the **▶** 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. Repeatedly press the **MENU** button to return to normal TV viewing.

You can also recall a desired picture (**Dynamic, Standard, Mild, Game** or **User**) with **PSM** button on the remote control. The picture **Dynamic, Standard, Mild** and **Game** are programmed for good picture reproduction at the factory and cannot be changed.

XD (option)

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

1. Press the **MENU** button and then **▲ / ▼** button to select the Picture menu.
2. Press the **▶** button and then **▲ / ▼** button to select **XD**.
3. Press the **▶** button and then **▲ / ▼** button to select **On** or **Off** on the **XD** pull-down menu.

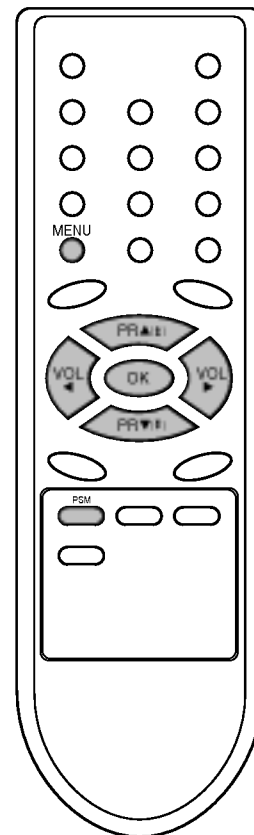


4. Press the **OK** or **◀** button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

CSM (Colour Status Memory)

You can select the picture colour status; standard, reddish, greenish or bluish, as you prefer.

1. Press the **MENU** button and then **▲ / ▼** button to select the Picture menu.
2. Press the **▶** button and then **▲ / ▼** button to select **CSM**.
3. Press the **▶** button and then **▲ / ▼** button to select **Standard, Reddish, Greenish** or **Bluish** on the **CSM** pull-down menu.
4. Repeatedly press the **MENU** button to return to normal TV viewing.

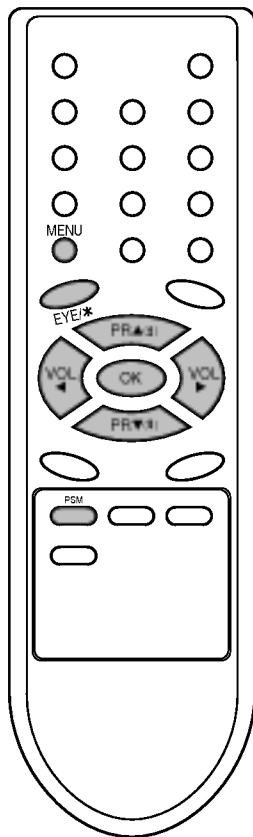


Picture adjustment

Picture adjustment

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

1. Press the **MENU** button and then **▲ / ▼** button to select the Picture menu.
2. Press the **▶** button and then **▲ / ▼** button to select **Contrast**, **Brightness**, **Colour** or **Sharpness**.



← OK MENU

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



← OK MENU

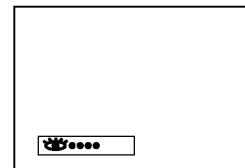
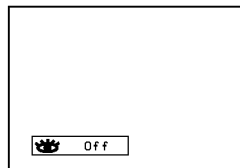
4. Press the **OK** button to store it for the picture user.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

Eye (option)

Eye is an optional function. Only a set with eye option can perform this function.

In some models, the set will automatically adjust the picture according to the surrounding conditions. This will enable you to enjoy the most suitable picture according to the surroundings.

Press the **EYE/*** button to switch the eye function on or off.



When the eye function is on, the most suitable picture is automatically adjusted according to the surrounding conditions.

At this time the display **•••••** in green does not appear continuously but the display **•••••** in yellow appears each time the picture condition changes.

Note :

- a. If you press the **PSM** button with the eye function, the eye function is automatically switched off.
- b. **EYE** function is not available for **RGB** input source.

Sound adjustment (option)

Sound adjustment is an optional function only a set with sound adjustment can perform this function.

SSM (Sound Status Memory)

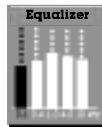
You can select your preferred sound setting; Flat, Music, Movie or Speech and you can also adjust the sound frequency of equalizer.

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



(RF STEREO, Flat)

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

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

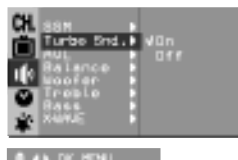
You can also recall a desired sound (**Flat**, **Music**, **Movie**, **Speech** or **User**) with **SSM/★** button on the remote control. The sound **Flat**, **Music**, **Movie** and **Speech** are programmed for good sound reproduction at the factory and cannot be changed.

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

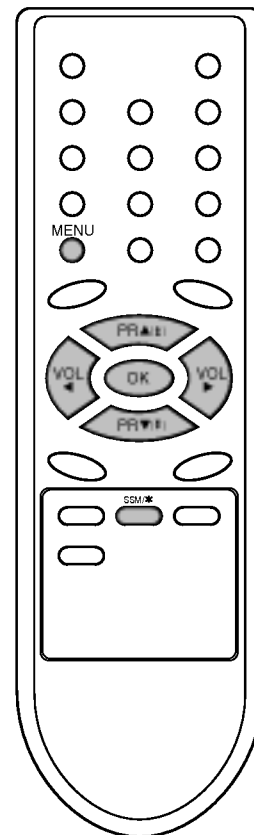
Turbo sound selection (option)

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

1. Press the **MENU** button and then **▲ / ▼** button to select the Sound menu.
2. Press the **▶** button and then **▲ / ▼** button to select **Turbo Snd.**
3. Press the **▶** button and then **▲ / ▼** button to select **On** or **off**.



4. Press the **OK** or **◀** button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.



Sound adjustment (option)



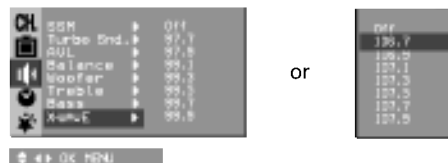
Sound adjustment

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

X-WAVE (Wireless Sound) (option)

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

1. Press the **MENU** button and then **▲ / ▼** button to select the Sound menu.
2. Press the **▶** button and then **▲ / ▼** button to select **X-WAVE**.
3. Press the **▶** button and then **▲ / ▼** button to tune in a frequency on the **X-WAVE** pull-down menu.



4. Match the TV's frequency and the FM receiver's.

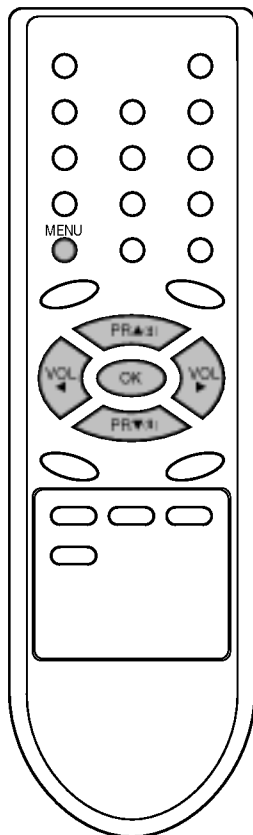
Some models are displayed as shown below.

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



Note:

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



Sound adjustment (option)

Sound output selection (option)

In AV mode, you can select output sound for the left and right loud-speakers.

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 loud-speaker.

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

R+R : Audio signal from audio R input is sent to left and right loud-speakers.

Stereo/Dual reception (option)

When a programme is selected, the sound information for the station appears after the programme number and station name disappear.

| Broadcast | On Screen Display |
|-----------|-------------------|
| Mono | MONO |
| Stereo | STEREO |
| Dual | DUAL I |

Mono sound selection

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

Language selection for dual language broadcast

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

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

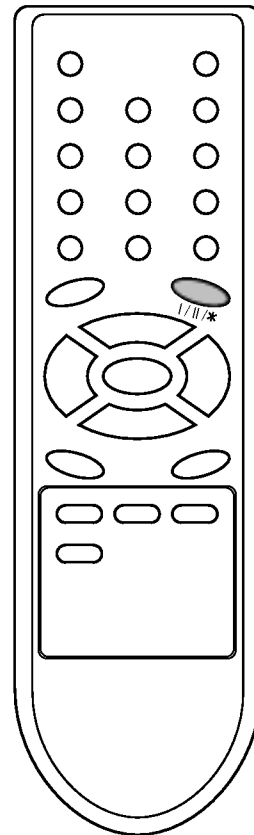
DUAL I+II sends a separate language to each loudspeaker.

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.



Time Setting



Setting the clock

1. Press the **MENU** button and then **▲ / ▼** button to select the Time menu.
2. Press the **▶** button to select **Clock**.
3. Press the **▶** button and then **▲ / ▼** button to adjust the hour.



4. Press the **▶** button and then **▲ / ▼** button to adjust the minute.
5. Press the **OK** button.
6. Repeatedly press the **MENU** button to return to normal TV viewing.

Setting the On/Off timer

By using this function, the set automatically switches on or off at a preset time. You must set the time correctly before using on/off time function.

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



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

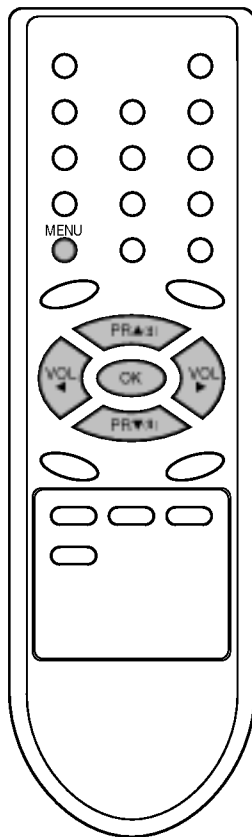
Note :

- a. **On time** works only in standby mode.
- b. To view the remaining on/off time, select the Time menu.
- c. When you switch the main power off, the **Clock** is reset .
- d. Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.

Auto off

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

1. Press the **MENU** button and then **▲ / ▼** button to select the Time menu.
2. Press the **▶** button and then **▲ / ▼** button to select **Auto off**.
3. Press the **▶** button and then **▲ / ▼** button to select **On** or **Off** on the **Auto off** pull-down menu.
4. Press the **OK** or **◀** button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.



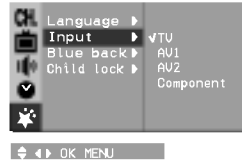
Other functions

TV and AV modes

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

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

1. Press the **MENU** button and then **▲** / **▼** 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 (AV1 or AV2)**, **AV3** (option), **S-VIDEO** (option) or **COMPONENT** (option) on the **Input** pull-down menu.



AV or AV1 : VCR connected to the Euro scart socket or phone jack of the set

AV2 : VCR connected to the **AV IN2** sockets of the set (option)

AV3 : VCR connected to the **AV3** sockets of the set (option)

S-VIDEO : S-VIDEO socket of VCR connected to the Euro scart socket on the set (option)

COMPONENT : DVD Player connected to the **COMPONENT** sockets on the set (option)

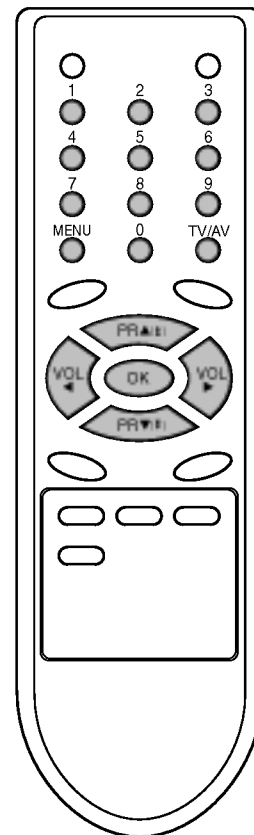
4. Repeatedly press the **MENU** button to return to normal TV viewing.

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

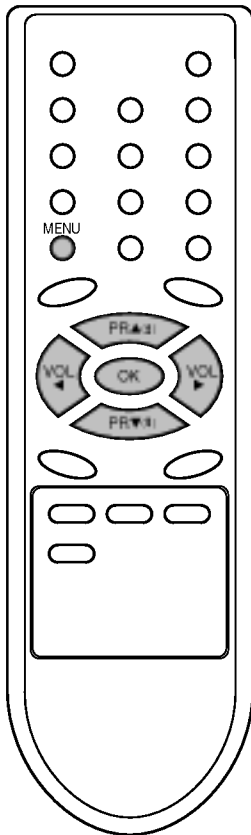
In AV mode, to return to TV mode, press the **▲** / **▼** or **NUMBER** buttons.

Auto AV switching (option)

If your VCR outputs switching voltage when it is switched to playback with the VCR connected to the Euro scart socket. The set is automatically switched to **AV** or **AV1** mode when an AV signal is input. But if you want to keep on watching TV mode, press the **▲** / **▼** or **NUMBER** buttons. Press the **TV/AV** button to return to AV modes.



Other functions



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. Press the **MENU** button and then **▲ / ▼** 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 **OK** or **◀** button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

With the lock on, the display **Child lock on** appears on the screen if any button on the panel is pressed while viewing the TV.

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

Blue back (option)

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

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

Note : In the AV mode, Component mode, the blue background doesn't appear on the screen.

Other functions

Games (option)

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

1. Press the **MENU** button and then **▲** / **▼** button to select the Special menu.
2. Press the **▶** button and then **▲** / **▼** button to select **Game**.
3. Press the **▶** button to enter the game mode.
4. Press the **▲** / **▼** button to select a game and then press the **OK** button.

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

Note :

- a. Press the **TV/AV** or **MENU** button to return to the normal TV viewing.
- b. If you want a new game, press the **RED** button to start during the game.

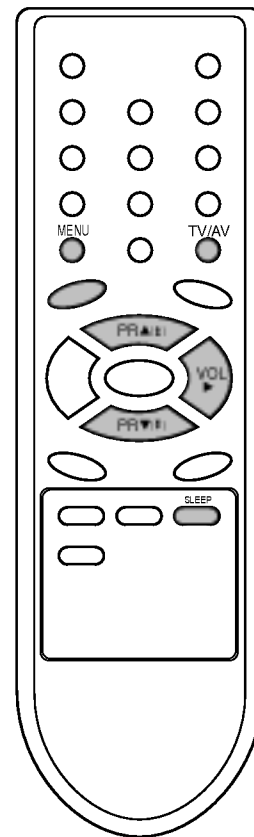
Sleep timer

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

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.



Connection of external equipment

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

Here shown may be somewhat different from your set.

Aerial socket

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 the programme number 0 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 (option)

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 AV sockets on the set, press the **TV/AV** button to select **AV** (or **AV1**), **AV 2**.
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.

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

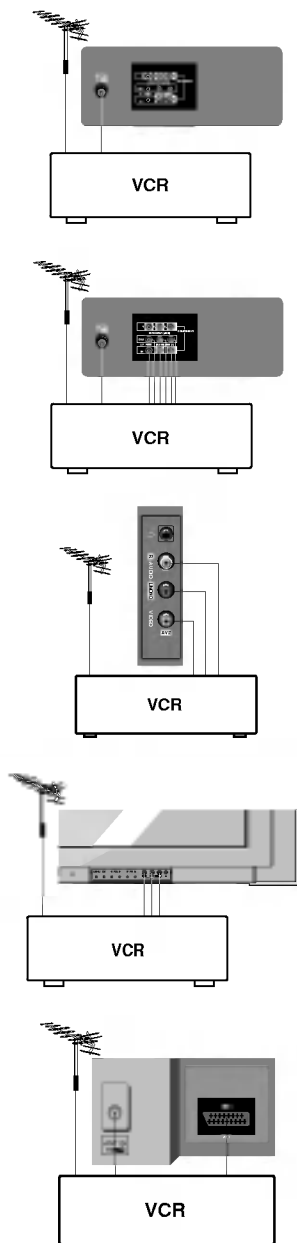
Euro scart socket (option)

1. Connect the Euro scart socket of the VCR to the Euro scart socket of the set.
2. Press the **PLAY** button on the VCR.
If your VCR outputs a switching voltage when connected to Euro scart socket, the set will switch to **AV** (or **AV1**) mode automatically. But if you want to keep on watching TV mode, press the **▲ / ▼** or **NUMBER** buttons.

Otherwise press the **TV/AV** button on the remote control handset to select **AV** (or **AV1**). The VCR playback picture appears on the screen.

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

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



Connection of external equipment

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

When connecting the S-video socket of the VCR to the S-VIDEO socket of the set, 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 VCR to the AUDIO sockets of the set.
3. Select **AV3** by pressing the **TV/AV** button repeatedly.
4. Press the **PLAY** button on the VCR.
The VCR playback picture appears on the screen.

Note : If both S-VIDEO and VIDEO sockets have been connected to the VCR simultaneously, only the S-VIDEO can be received.

Component in sockets (option)

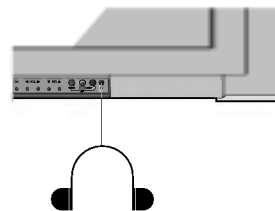
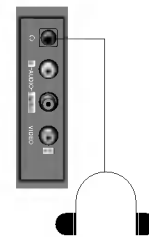
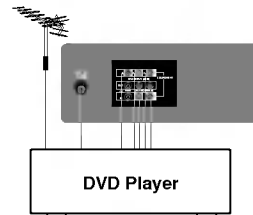
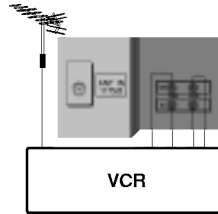
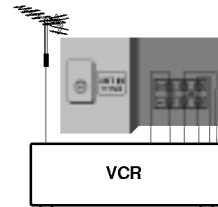
1. Connect the COMPONENT video output sockets (Y Cb Cr, Y Pb Pr or Y B-Y R-Y) of the DVD player to the COMPONENT INPUT sockets (Y Pb Pr) on the set.
2. Connect the audio cable from the DVD player to AUDIO IN sockets of **AV** (or **AV1**).
3. Press the **TV/AV** button to select **COMPONENT**.
4. Press the **PLAY** button on the DVD player.
The COMPONENT playback picture appears on the screen.

Headphone socket (option)

Only models which have a headphone socket can perform this function.

Insert the headphone plug to the headphone socket of the set. You can listen to the sound through the headphones. To adjust the headphone volume, press the ◀ / ▶ button.

If you press the **MUTE** button, the sound from the headphone's is switched off.



Note

Troubleshooting check list

Symptoms

No picture, no sound

Sound OK, poor picture

Picture OK, poor sound

Picture blurred

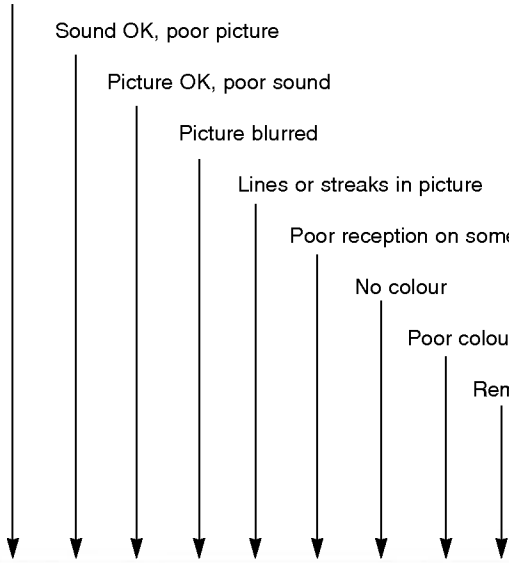
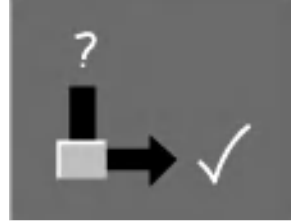
Lines or streaks in picture

Poor reception on some channels

No colour

Poor colour

Remote control does not work



Check these items and try to adjust these

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- 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)

