LG

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 / Side panel

Basic operation 7
- On and off / Programme selection
- Volume adjustment / Quick view
- Mute function / Auto Demonstration
- On screen language selection (option)

On screen menus 8
- Menu selection

Setting up TV stations 9
- Auto programme tuning
- Manual programme tuning
- Fine tuning
- Programme edit
- Calling the programme table

Picture adjustment 14
- PSM (Picture Status Memory) / Picture adjustment
- 100Hz mode / Convergence / Eye (option)
- Turbo picture selection

Sound adjustment 16
- SSM (Sound Status Memory) / Sound adjustment
- Turbo sound selection
- Sound output selection / Stereo/Dual reception
- NICAM reception (option)

Other functions 19
- TV and AV modes / Auto AV switching (option)
- Child lock / Auto sleep
- Blue back (option) / Sleep timer

PIP operation (option) 21
- On and off / Input mode selection for sub picture
- Swapping between main and sub pictures
- Programme selection for sub picture
- Sub picture size / Sub picture freeze
- Sub picture position change / Programme scan

Teletext (option) 22
- Switch on/off
- SIMPLE text / TOP text (option)
- FASTEXT / Special teletext functions

Connection of external equipment 25
- Aerial socket
- Audio/Video in sockets (option)
- Euro scart socket (option)
- S-video / Audio in sockets (S-AV) (option)
- Component in sockets (option)
- Speaker sockets (option)

Troubleshooting check list **Back cover**

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.

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 Ω on the back cover. For the best reception an outdoor aerial should be used.

Location

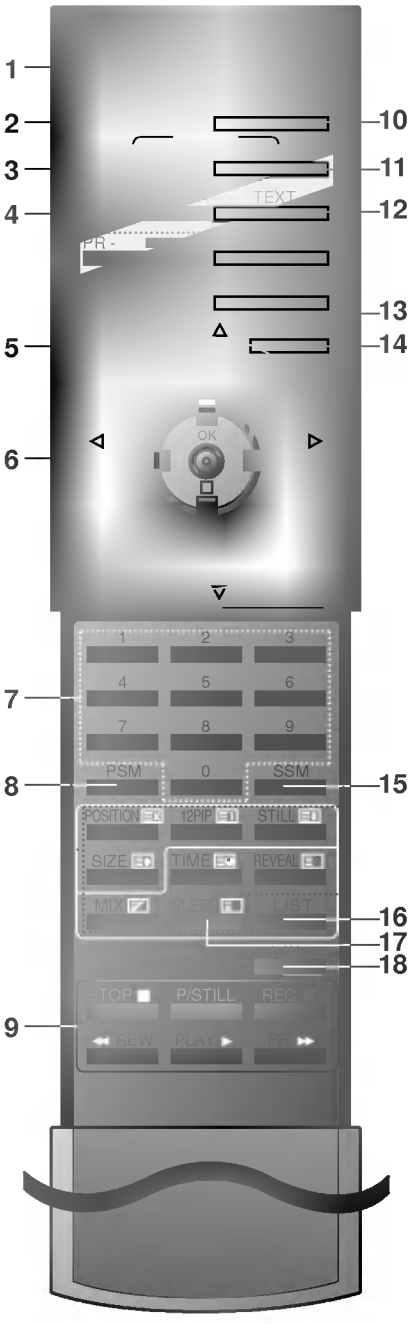
Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on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

When displaying still pictures such as videogames, 16:9 picture format, PIP display, and station label for a long time, the image may be persisted on the screen.

Manufactured under license from Dolby Laboratories. "Dolby" "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

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.



(With TELETEXT)

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. **I/II**
   selects the language during dual language broadcast.
   selects the sound output.

3. **TURBO SOUND BUTTON**
   selects Turbo sound.

4. **PIP BUTTONS**
   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.
   4/12 PIP or 12PIP
   switches on or off the programme scan mode 12 sub pictures .

5. **MENU**
   selects a menu.

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

7. **NUMBER BUTTONS**
   switches the set on from standby or directly select a number.

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

9. **VCR BUTTONS**
   control a LG video cassette recorder.

Location and function of controls

10. TV/AV
selects TV or AV mode.
clears the menu / text from the screen.
switches the set on from standby.

11. TURBO PICTURE BUTTON
selects Turbo picture.

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

13. SWAP
returns to the previously viewed programme.

14. MUTE
switches the sound on or off.

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

16. LIST
displays the programme table.

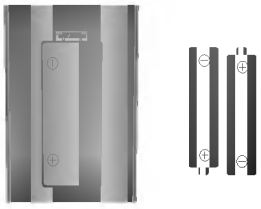
17. SLEEP
sets the sleep timer.

18. EYE
switches the eye function on or off.

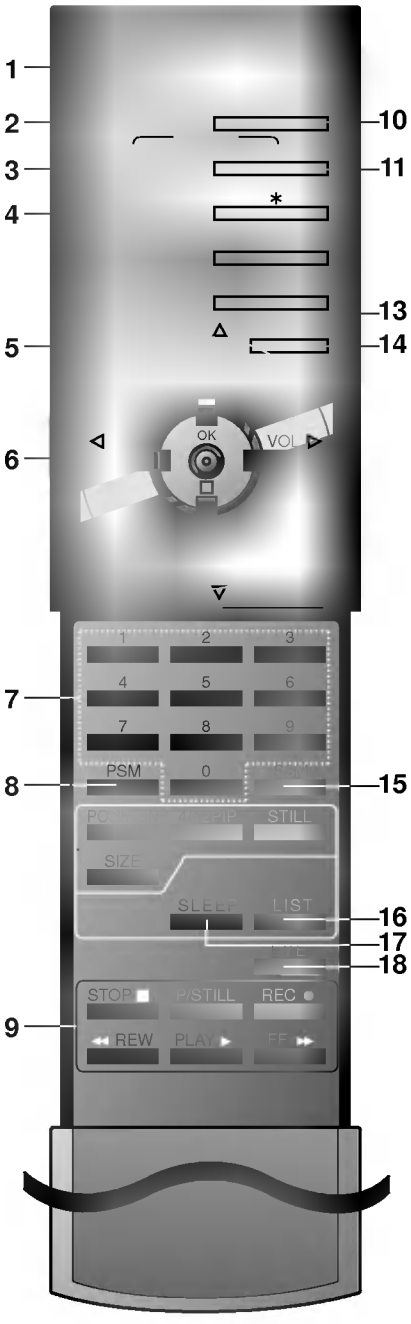
Note : *In teletext mode, the* ***PR +/-****,* ***SWAP*** *and* ***INPUT*** *buttons are used for teletext function.*

Battery installation

The remote control handset is powered by two 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.*

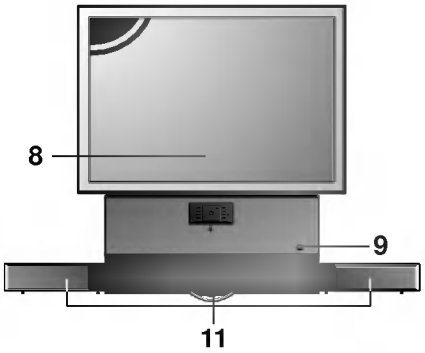


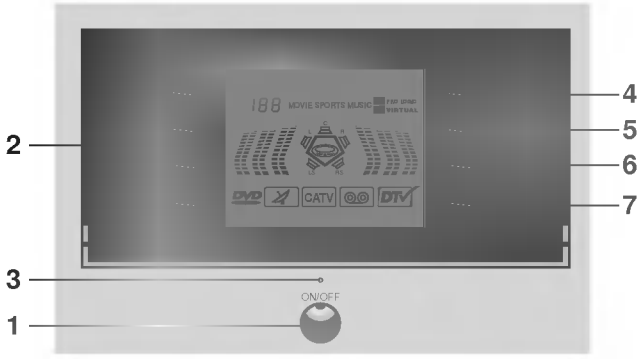
(Without TELETEXT)

Location and function of controls

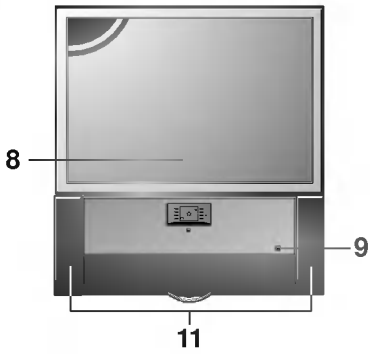
Front panel

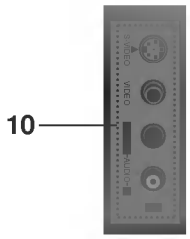
- **PT-48/53A82 series**





- **PT-43A82 series**





(Side panel)

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

2. **◄ / ► (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.

3. **POWER/STANDBY INDICATOR**
   illuminates brightly when the set is in standby mode.
   dims when the set is switched on.

4. **DIGITAL INDEX**
   displays information which is input to the set with three different brightness.

5. **MENU**
   selects a menu.

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

7. **TV/AV**
   selects TV or AV mode.
   clears the menu / text from the screen.
   switches the set on from standby.

8. **REMOTE CONTROL SENSOR**

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

10. **AUDIO/VIDEO IN SOCKETS (AV3)**
    Connect the audio/video out sockets of external equipment to these sockets.
    S-VIDEO/AUDIO IN SOCKETS (S-AV)
    Connect the video out socket of an S-VIDEO VCR to the **S-VIDEO** socket.
    Connect the audio out sockets of the S-VIDEO VCR to the audio sockets as in **AV3**.

11. **CENTRE SPEAKER (PT-48/53A82 series only)**

    LEFT/RIGHT LOUD-SPEAKERS
    Only in PT-48/53A82 series model, the left/right loud-speakers are detachable and need to be connected to the **SPEAKER OUT** sockets on the back panel of the set as indicated by red (+) and black (-) knobs.
    Note : *Before placing the speakers, screw the speaker legs to the holes on them.*

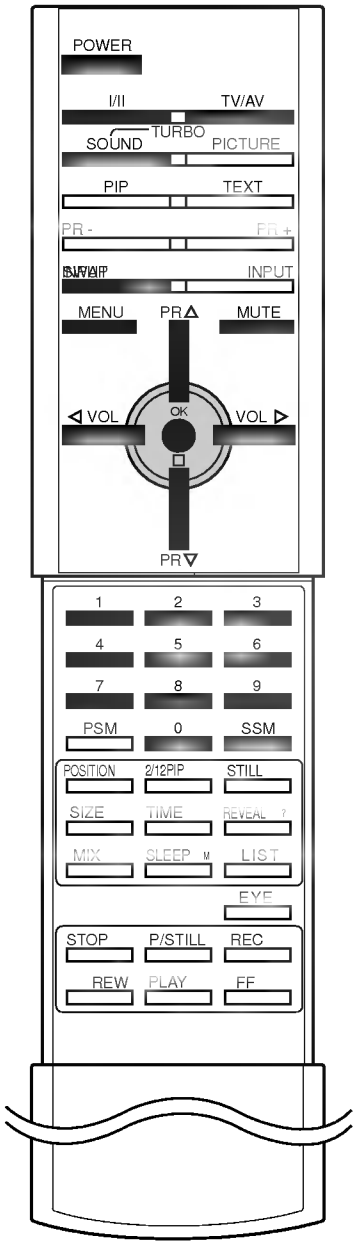
* **CASTERS (on the bottom)**
turn and move the set easily.

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 **SWAP** 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**, ◄ / ►, **I/II**, **TURBO SOUND** button.

Auto Demonstration

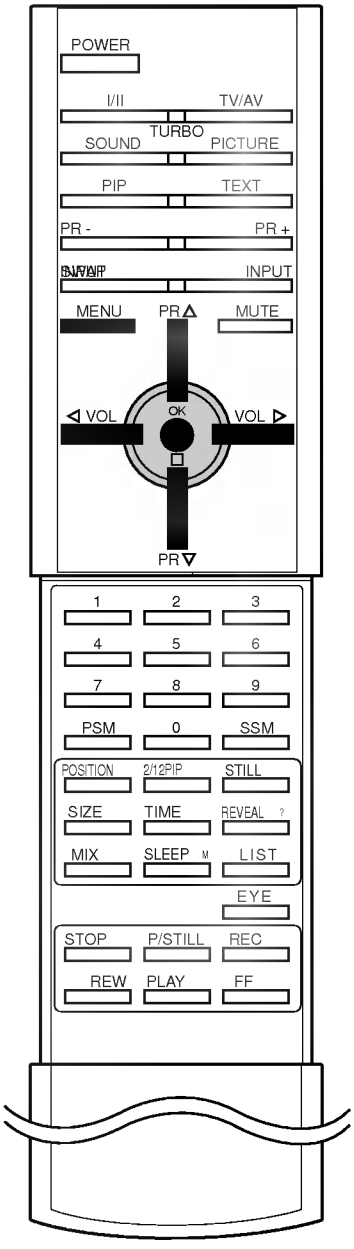
To review all the menus programmed in the set, press the **OK** button of the front panel control for about 5 seconds. To stop auto demonstration, press any button of the front panel control and **POWER** button of the remote control.

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** button to return to normal TV viewing.

On screen menus



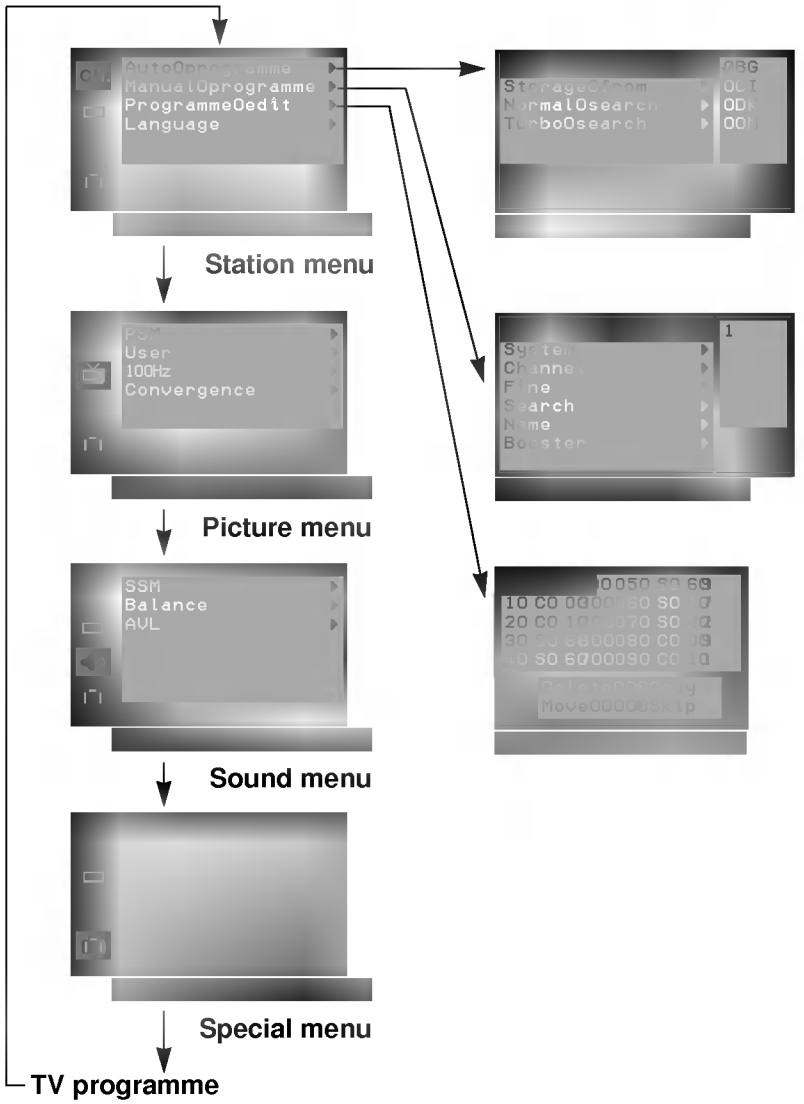
The dialogue between you and your set takes place on screen with an operator menu. The buttons required for the operating steps are also displayed.

Menu selection

1. Repeatedly press the **MENU** button to display each menu.
2. Press the ▶ button 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 :

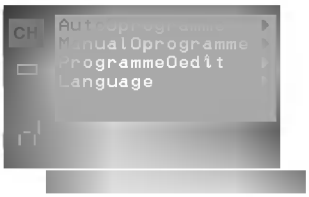
a. In the AV modes, the Station menu is not displayed.
b. In the teletext mode, menus are not displayed.
*c. In some models, the **Normal/Turbo search** will not display, only the **Start** will display in the **Auto programme** menu.*
*d. In some models, the **Language**, **AV4** will not display.*



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 programmed. Stations can be tuned using automatic or manual modes.

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



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)
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**' (or '**00**') in front of it, i.e. '**05**' (or '**005**') for 5.
8. Press the **OK** button.
9. Press the ▲ / ▼ button to select **Normal** or **Turbo search**.

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

Note :

a. ***Turbo search*** *is further faster than* ***Normal search*** *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 programme*** *menu.*

10. Press the ▶ button to begin auto programming.



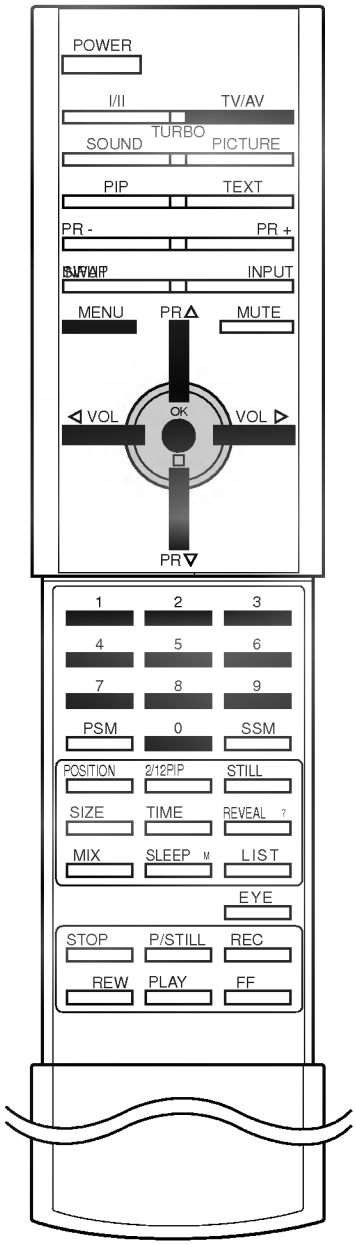
(Normal search)



(Turbo search)

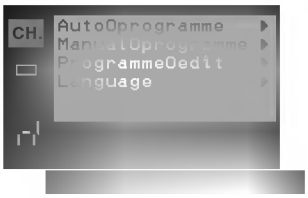
All receivable stations are stored.
To stop auto programming, press the **MENU** button.
When auto programming is completed, the **Programme edit** menu appears on the screen. See the 'Programme edit' section to edit the stored programme.

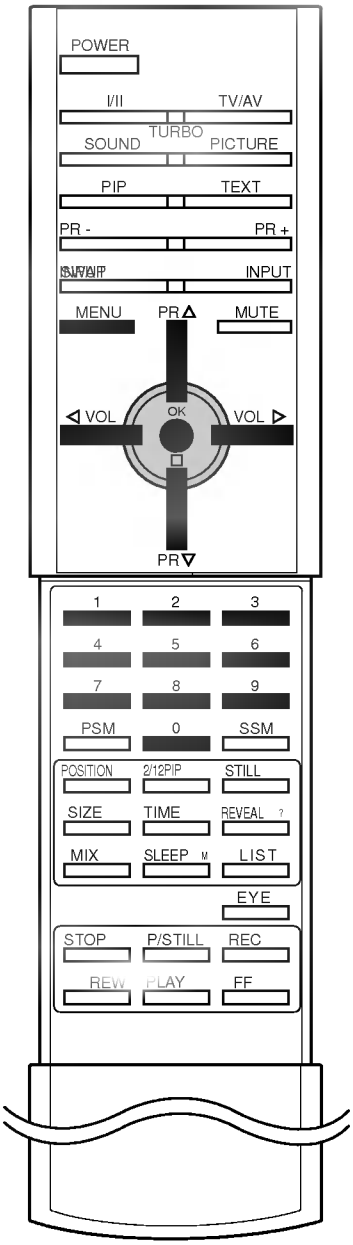
11. Press the **TV/AV** button to return to normal TV viewing.



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 **PR.**.
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 **PR.** 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)
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.



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

Booster

When the interference between programmes appear, select **Booster** to **Off**.

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

Fine tuning

Normally fine tuning is only necessary if reception is poor.

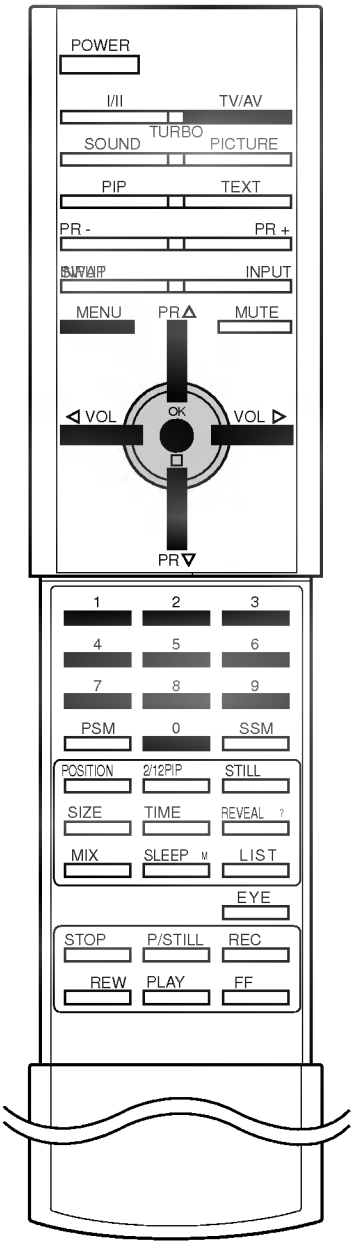
1. Repeat the 'Manual programme tuning' steps 1 to 3.
2. Press the ▲ / ▼ button to select **Fine**.
3. Press the ▶ button.
4. Press the ◀ / ▶ button to fine tune for the best picture and sound on the **Fine** pull-down menu.



5. Press the **OK** button.
6. Press the **TV/AV** button to return to normal TV viewing.
   The finely tuned programme will be indicated by yellow number during programme selection.



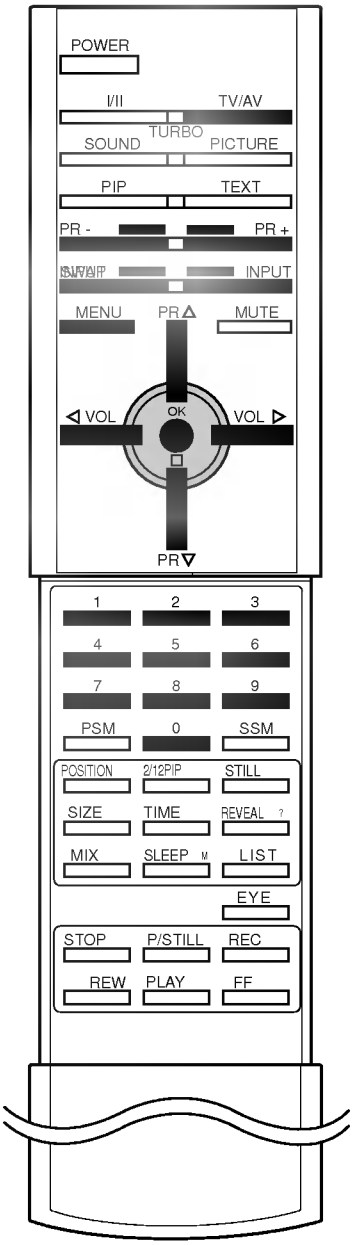
Station Menu



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.

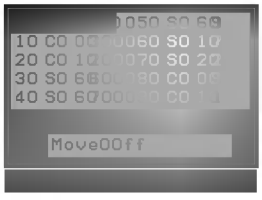


Copying a programme

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** 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 :

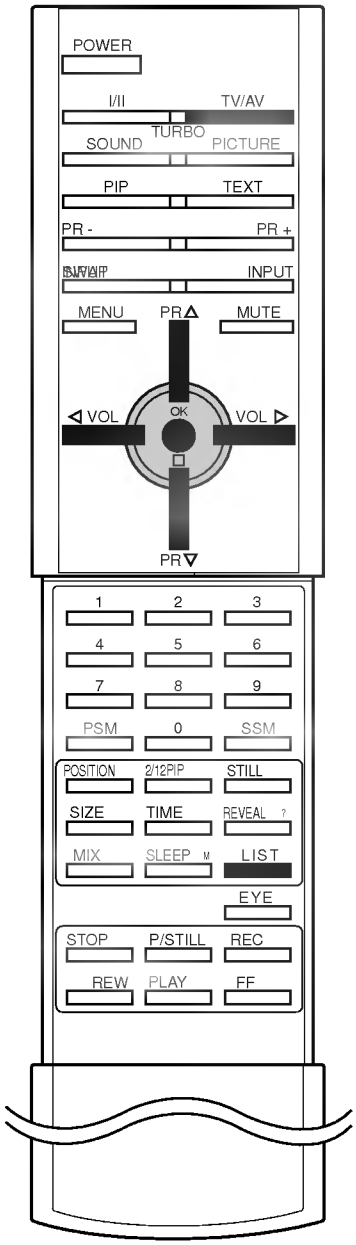
a. You may find some blue programmes. They have been set up to be skipped by auto programming or in the programme edit mode.

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.

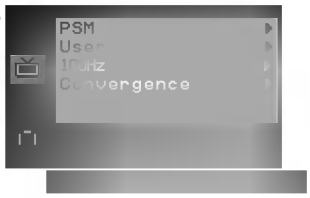
Paging through a programme table
There are 10 (or 20) programme table pages in which contain 100 (or 200) programmes.
Pressing the ▲ / ▼ or ◄ / ► button repeatedly turns the pages.

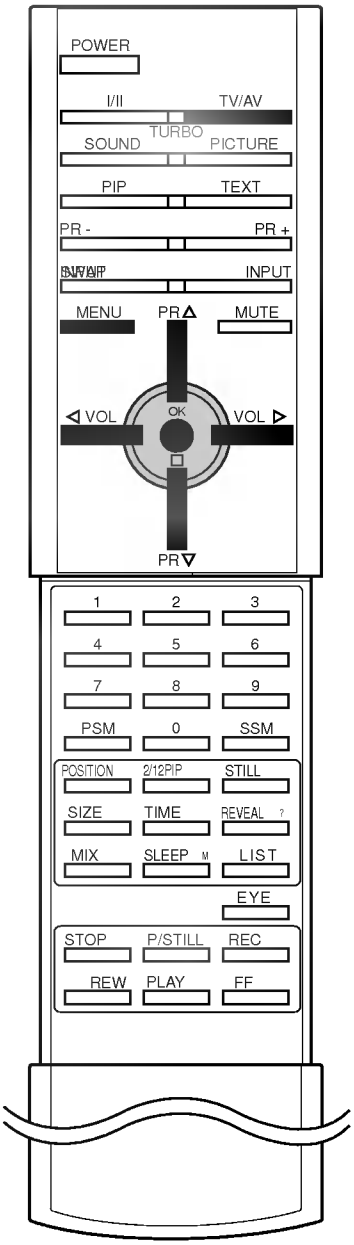
Press the **TV/AV** button to return to normal TV viewing.



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** 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** button to return to normal TV viewing.

100Hz mode

When watching VCR, select desired picture condition by choosing **Mode 1** or **Mode 2**.

1. Repeatedly press the **MENU** button to select the Picture menu.
2. Press the ▶ button and then ▲ / ▼ button to select **100Hz**.
3. Press the ▶ button and then ▲ / ▼ button to select a picture setting (Mode 1 or 2) on the **100Hz** pull-down menu.



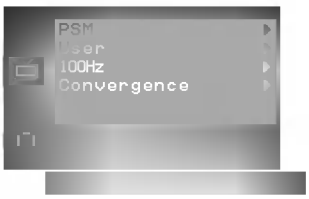
4. Press the **OK** or ◀ button.
5. Press the **TV/AV** button to return to normal TV viewing.

Note :

a. This mode works only in AV mode and TV programme 0.
*b. The **100Hz** mode isn't suitable to use NTSC signal.*

Picture adjustment

Convergence



Picture Menu

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.

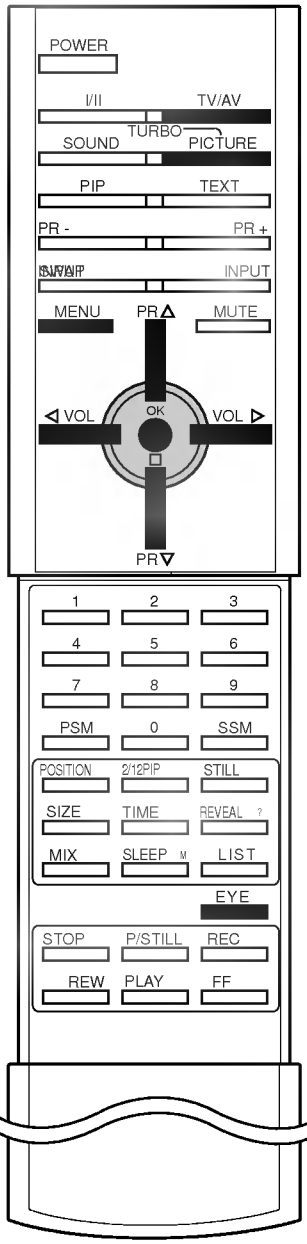
1. Repeatedly press the **MENU** button to select the Picture menu.
2. Press the ▶ button and then ▲ / ▼ button to select **Convergence**.
3. Press the ▶ button to display the **Convergence** menu.

   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.
4. Press the **OK** button to adjust the colour convergence.
   The display ▲ ▼ ◀ ▶ is selected in red.
   Press it again to select the display ▲ ▼ ◀ ▶ in blue.
5. Press the ▲ / ▼ / ◀ / ▶ button 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 ▲ / ▼ / ◀ / ▶ button.
6. If the red and blue display + are superimposed with the green one, the display + will be changed to yellow or cyan.
7. Press the **TV/AV** button to return to normal TV viewing.

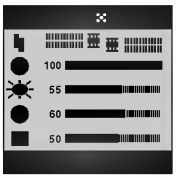
Note :*The convergence isn't suitable to use in case of no broadcasting signal.*



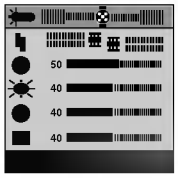
Eye (option)

On 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.



(EYE off)



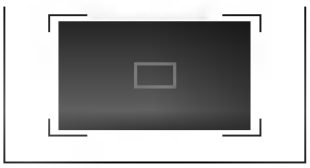
(EYE on)

When the eye function is on, the most suitable picture is automatically adjusted according to the surrounding conditions with **DIGITAL EYE**'s blinking.

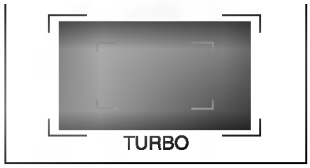
Note :*If you press the **TURBO PICTURE** button with the eye function, the eye function is automatically switched off.*

Turbo picture selection

When this function is on, picture will be more brilliant and distinct picture than normal picture. You can enjoy the Turbo picture so much better than normal picture. Repeatedly press the **TURBO PICTURE** button to switch on or off.



(Turbo Picture off)



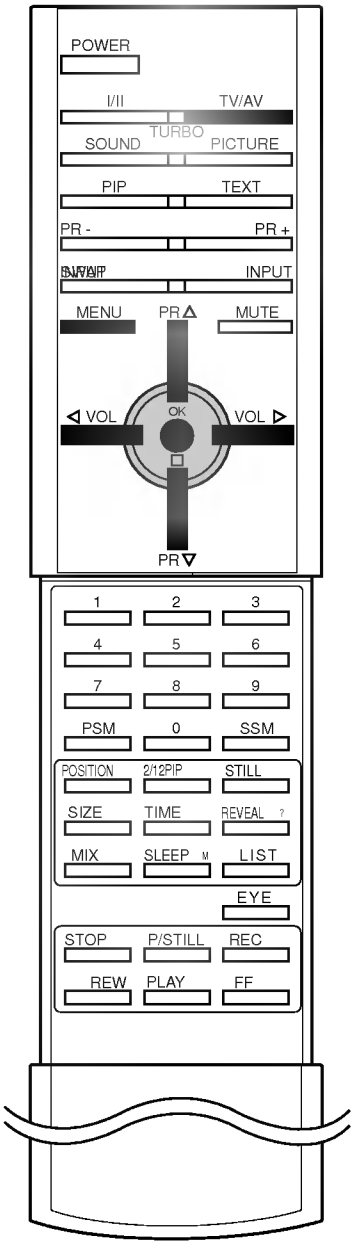
(Turbo Picture on)

Note : *If you press the **EYE** button with the Turbo picture function, the Turbo picture function is automatically switched off.*

Sound adjustment

Sound Menu

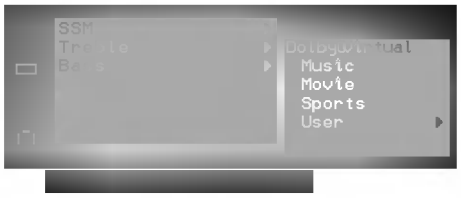




SSM (Sound Status Memory)

You can select your preferred sound setting; Dolby Pro Logic (PT-48/53A82 series only), Dolby Virtual, Music, Movie or Sports and you can also adjust the sound frequency of 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.



Dolby Surround Pro Logic (PT-48/53A82 series only)
Dolby Surround Pro Logic lets you experience panoramic effects of sound. This sound requires normally 5 speakers, whose functions are as follows:

Centre speaker : to anchor the stable sound image, like dialogue, to the TV screen.
Left and Right main speakers : for the stereo information.
Surround speakers (not supplied): for the special effects created by the surround channel.

Installing speakers (PT-48/53A82 series only)
Before starting, connect left/right speakers and surround speakers. See the 'Speaker sockets' section.

Dolby Pro Logic operation (PT-48/53A82 series only)
To obtain the Dolby Surround Pro Logic from your set, you have to select **Dolby Pro Logic** in the sound item **SSM** of Sound menu. You can obtain the best surround sound when the source material you are watching is Dolby Surround encoded. In mono broadcast, sound output only in centre speaker.

a. Press the ▶ button in **Dolby Pro Logic** to display the **Dolby Pro Logic** sub menu.
b. Press the ▲ / ▼ button to select **Centre Mode** and then press the ▶ button.



Press the ▲ / ▼ button to select **Normal**, **Wide** or **Phantom**.

Normal
The sound is output from right, left, centre and surround speakers. The bass sound isn't output from the centre speaker, instead it is output from the right and left speakers.

Wide
The sound is output from right, left, centre and surround speakers. Especially the centre speaker covers all the sound range (from bass to treble).

Phantom
This mode is suitable to use in case of no installing the centre speaker. The sound is output from right, left and surround speakers.

c. Press the ▲ / ▼ button to select a desired speaker and then press the ▶ button.
d. Make appropriate sound level with the ◀ / ▶ button.
e. Press the **OK** or ◀ button.
f. Press the **TV/AV** button to return to normal TV viewing.

Sound adjustment

Dolby Virtual
Dolby Virtual lets you experience panoramic effects of sound.

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



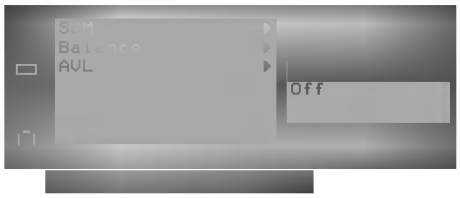
b. Select a sound band by pressing the ◀ / ▶ button.
c. Make appropriate sound level with the ▲ / ▼ button.
d. Press the **OK** button to store it for the sound **User**.
The display **Stored** appears.

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

Sound adjustment

You can adjust balance or 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.

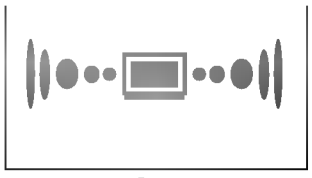


4. Press the **TV/AV** button to return to normal TV viewing.

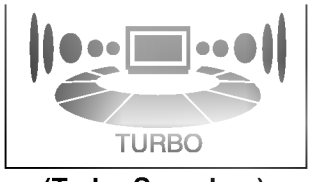
Note (PT-48/53A82 series only) :
*a. In **Dolby Pro Logic** mode, **AVL** is not available.*
*b. If you select the **Dolby Pro Logic** mode, **Treble** and **Bass** can be adjusted instead of **Balance** and **AVL**.*

Turbo sound selection

When this function is on, sound will be more emphasized and amplified sound than normal sound. You can enjoy the Turbo Sound so much better than normal Sound.
Repeatedly press the **TURBO SOUND** button to switch on or off.

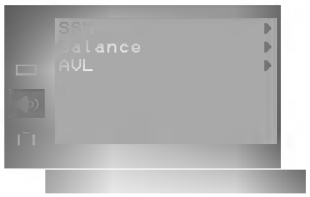


(Turbo Sound off)

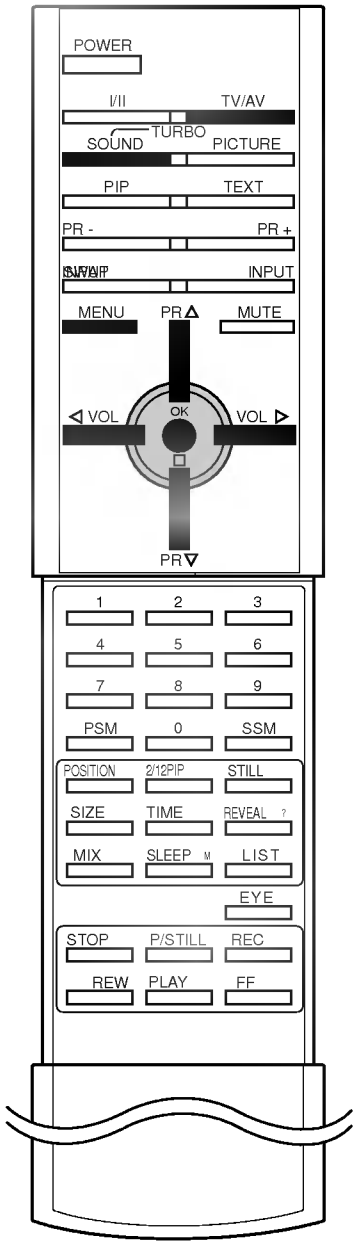


(Turbo Sound on)

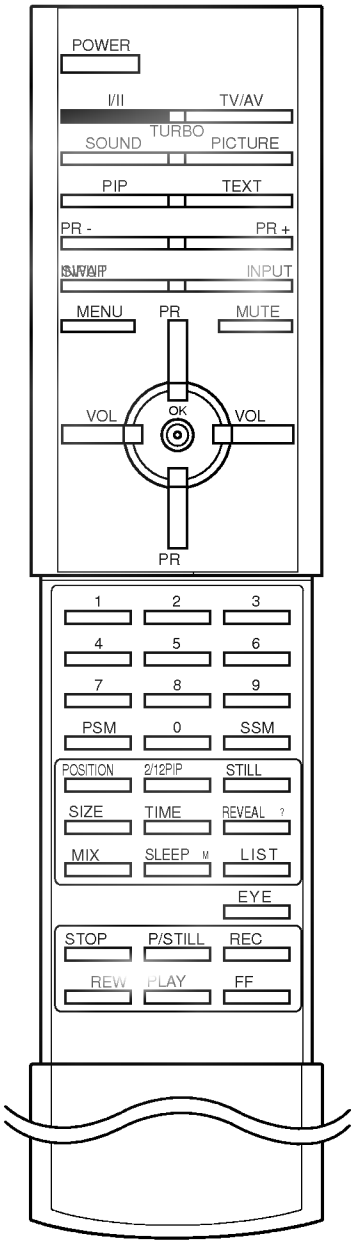
***Note :** The Turbo Sound isn't suitable to use **Dolby Pro Logic** and **Dolby Virtual**.*



Sound Menu



Sound adjustment



Sound output selection

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

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 loud-speakers.

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.

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. 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**, **AV1**, **AV2**, **AV3**, **AV4** (option), **COMPONENT 1** or **COMPONENT 2** on the **Input** pull-down menu.



AV 1 : VCR connected to the **AV1** sockets on the set
AV 2 : VCR connected to the **AV2** sockets on the set
AV 3 : VCR connected to the **AV3** sockets on the set
AV4 : VCR connected to the Euro scart socket on the set (option)
COMPONENT 1 : COMPONENT connected to the **COMPONENT 1** sockets on the back
COMPONENT 2 : COMPONENT connected to the **COMPONENT 2** sockets on the back

4. Press the **TV/AV** 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 1** 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.

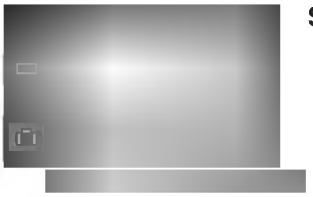
Child lock

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.

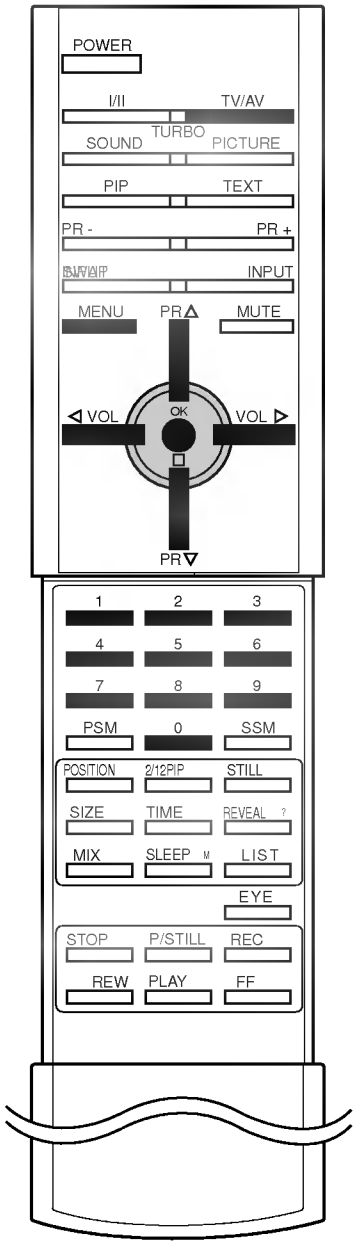
1. Repeatedly press the **MENU** button to select the Special menu.
2. Press the ▶ button and then ▲ / ▼ button to select **Child lock**.
3. Press the ▶ button and then ▲ / ▼ button to select **On** or **Off** on the **Child lock** pull-down menu.
4. Press the **TV/AV** button to return to normal TV 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.

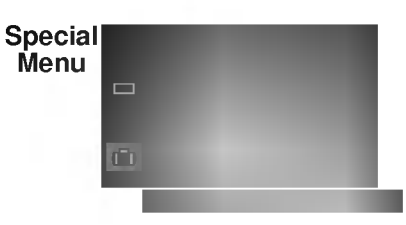
Note : *The display* ***Child lock on*** *will not appear on the screen if any button on the front panel is pressed while displaying the menus.*

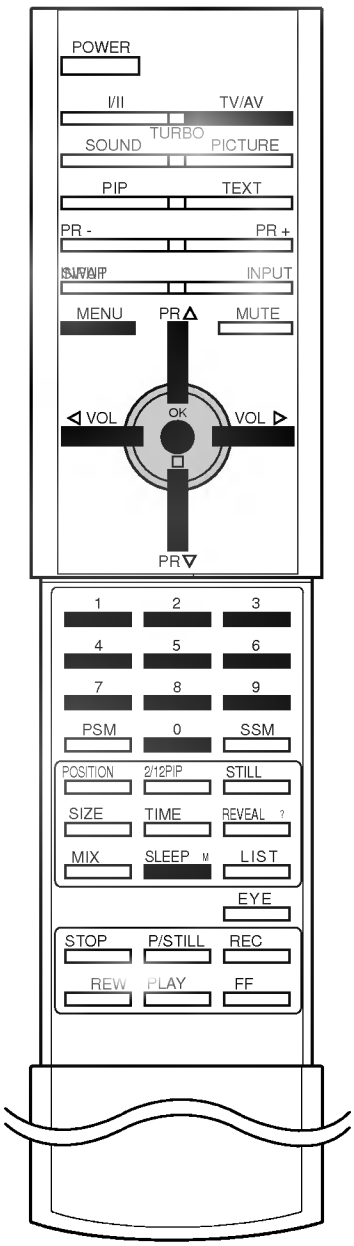


Special Menu



Other functions





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** button to return to normal TV viewing.

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

Note :

a. The blue background automatically appears on the screen when there is no signal in AV mode.

b. The Blue back isn't suitable to use COMPONENT 2 mode.

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 ⏻ **0** will appear on the screen, followed by **10**, **20**, **30**, **60**, **90**, **120**, **180** and **240**. The timer begins to count down from the number of minutes selected.

Note :

*a. To view the remaining sleep time, press the **SLEEP** button once.*

*b. To cancel the sleep time, repeatedly press the **SLEEP** button until the display ⏻ **0** appears.*

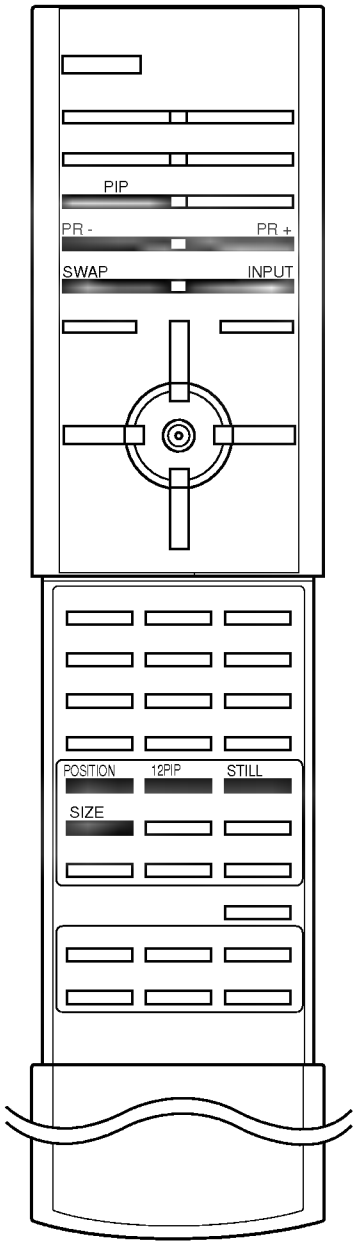
c. When you switch the set off, the set releases the preset sleep time.

PIP operation (option)

Option :
PIP is an optional function, so that only the set with PIP function can operate.
PIP (Picture in Picture) displays a picture within a picture.

On and off

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



Input mode selection for sub picture

Press the **INPUT** button to select the input mode for the sub picture.

Each time this button is pressed, each input mode for the sub picture is displayed as shown below.

Programme number → **AV1** → **AV2** → **AV3** → **AV4** (option) → **COMPONENT1** →

Swapping between main and sub pictures

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

Programme selection for sub picture

Press the **PR +/-** buttons to select a programme for the sub picture. The selected programme number is displayed just below the programme number of main picture.

Sub picture size

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

1/16 size of the main picture → 1/9 size → 1/2 size →

Note : *If broadcasting system of the main picture for PIP is differ from sub picture's for PIP, the sub picture not be natural. (ex: In case that main picture/sub picture is PAL/NTSC system)*

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

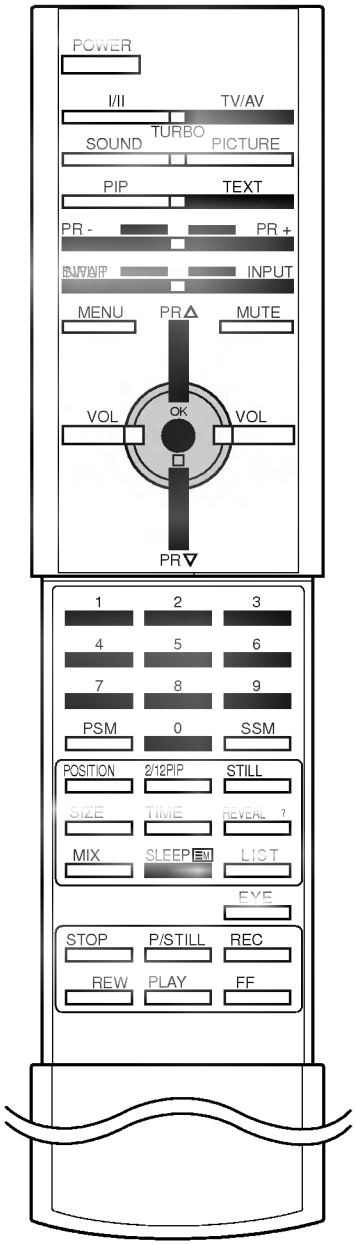
Press the **POSITION** button repeatedly until desired position is achieved. The sub pictures move clockwise.

Programme scan

This function enables you to search all the stored stations on 12 sub pictures and see your favorite station by exchanging the main and sub pictures.

Press the **4/12 PIP** or **12 PIP** button repeatedly to select 12 sub pictures. The selected sub pictures search all the stored stations .
Press the **4/12 PIP** or **12 PIP** button again to switch off sub pictures.

Teletext (option)



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

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

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

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 **TEXT** or **TV/AV** 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 ≡M 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 with 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.

Teletext (option)

TOP text (option)

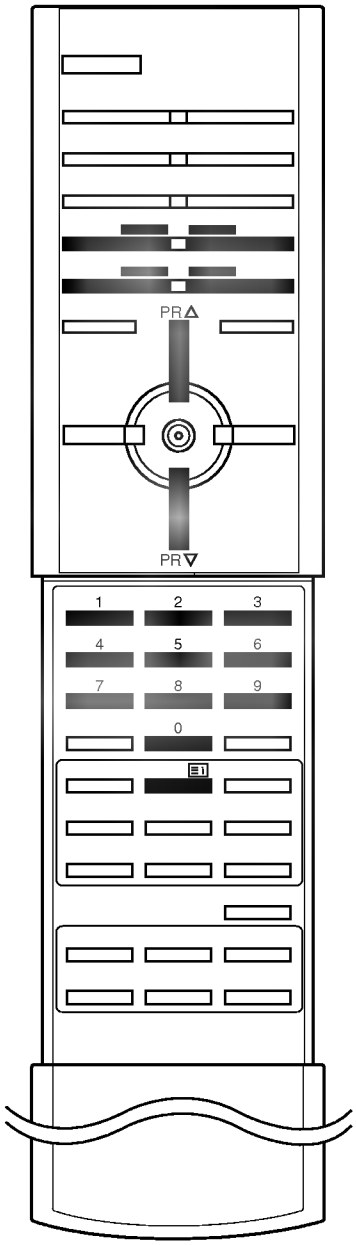
The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

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

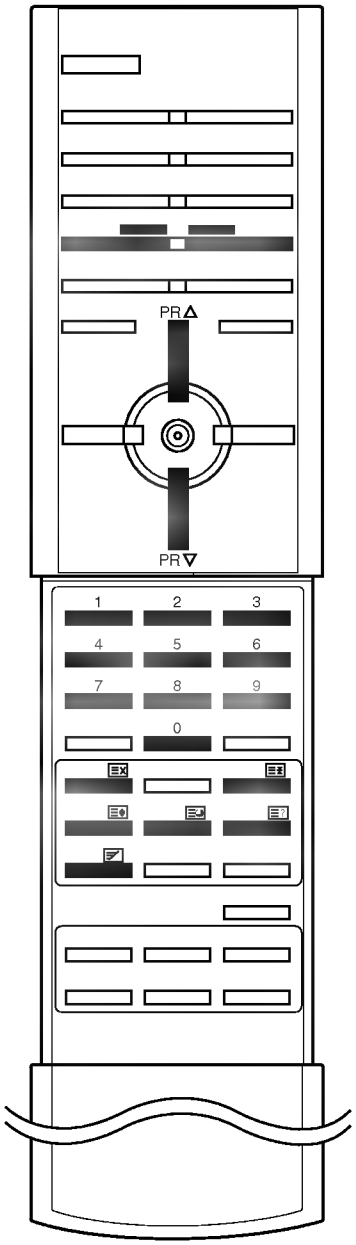
The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

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.

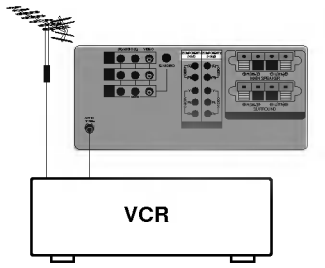
HOLD
Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen 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.
Note : When TV and text picture are displayed half and half of the screen, MIX function is not available.

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.

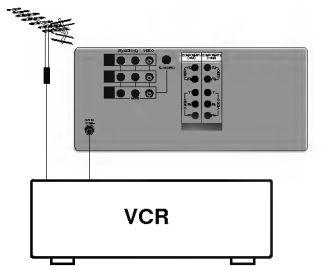
Connection of external equipment

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

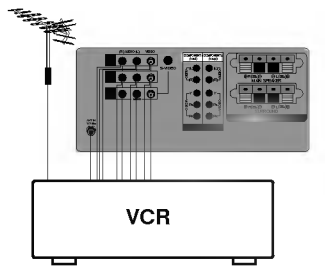


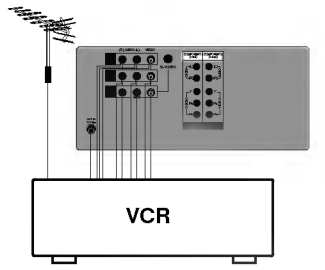
Audio/Video in/out sockets (option)

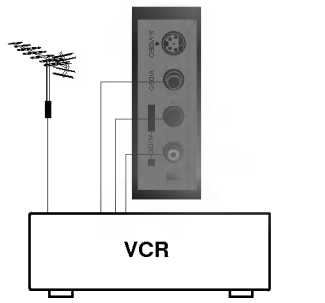
1. Connect the audio/video out sockets of the VCR to audio/video in sockets of the set and in sockets of the VCR to out sockets of the set.
2. Press the **TV/AV** button to select **AV 1**, **AV 2** or **AV 3**.
3. Press the **PLAY** button on the VCR.
   The VCR playback picture appears on the screen.

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

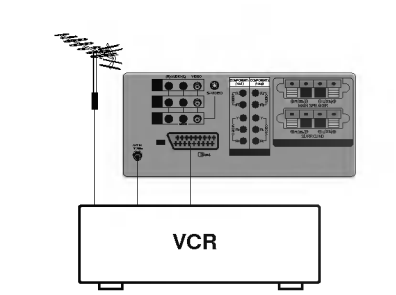
Note : *If you have a mono VCR, connect the audio cable from the VCR to the* ***AUDIO L/MONO*** *socket of the set.*







Connection of external equipment



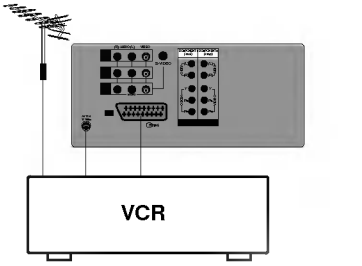
Euro scart socket (option)

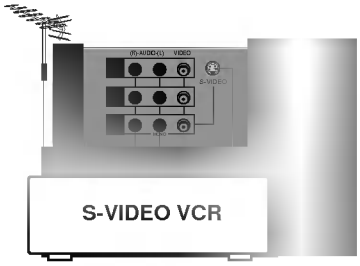
1. Connect the Euro scart socket of the VCR to the Euro scart socket of the set.
2. Press the **PLAY** button on the VCR.
   If your VCR outputs a switching voltage connect to Euro scart socket, the set will switch to **AV 4** mode automatically. But if you want to keep on watching TV mode, press the ▲ / ▼ or NUMBER buttons.

   Otherwise press the **TV/AV** button on the remote control handset to select **AV 4**. 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 can be received. These signals are transmitted, for example, by a pay TV decoder, game machine or photo CD unit, etc.*



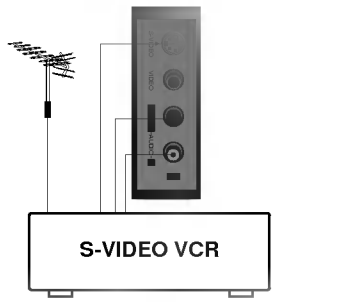


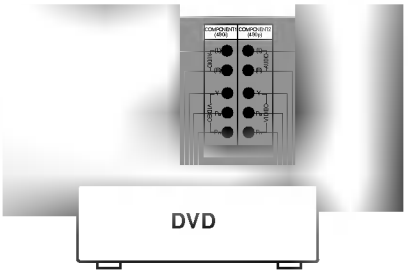
S-Video / Audio in sockets (S-AV) (option)

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

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 **AV1** or **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 S-VHS VCR simultaneously, only the **S-VIDEO** can be received.*





Component in sockets (option)

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

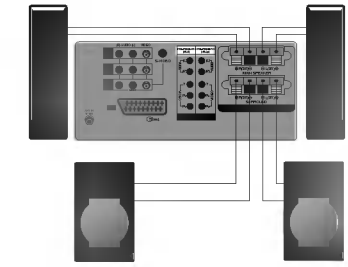
Note :

a. DVD audio input can be output, but DVD video input cannot be output. Even when DVD video input can be output, you will have only black and white picture.

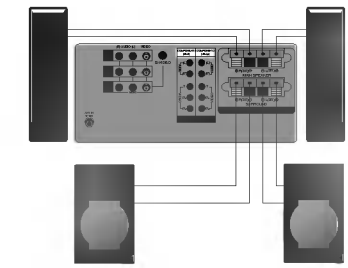
*b. Only **COMPONENT 2 (480p)** can be received vertical Frequency (60Hz) Progressive signal. If the picture is poor by connecting the **COMPONENT 2 (480p)**, connect the DVD to the **COMPONENT 1 (480i)**.*

Connection of external equipment

Speaker sockets (option) (PT-48/53A82 series only)



You can obtain a Dolby Pro Logic Surround effect by connecting 4 speakers to SPEAKER sockets on the back of the set.
To obtain the full benefit of your Dolby Pro Logic Surround, place the left and right loud speakers (supplied) in front of you and the surround speakers (not supplied) at the side of you facing in about 1M overhead.

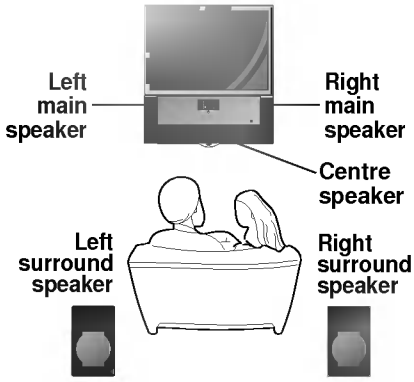


Connecting Left/Right loud-speakers
Connect the left/right loud-speakers to the **MAIN SPEAKER** sockets on the back panel of the set as indicated by red (+) and black (-) knobs.

Connecting Surround speakers
Connect the left/right surround speakers to the **SURROUND** sockets on the back panel of the set as indicated by red (+) and black (-) knobs.

Note :

a. *Connect the external speakers making sure to observe the following polarity; the red lead should be connected to the red connector (+) on the speaker and the black lead is connected to the black connector (-) on the speaker.*
b. *When you connect other speakers to surround speaker knobs, other speakers are to be impedance 8Ω and more than 25W(Max) output.*



Troubleshooting check list

Symptoms



No picture, no sound

Sound OK, poor picture

Picture OK, poor sound

Picture blurred

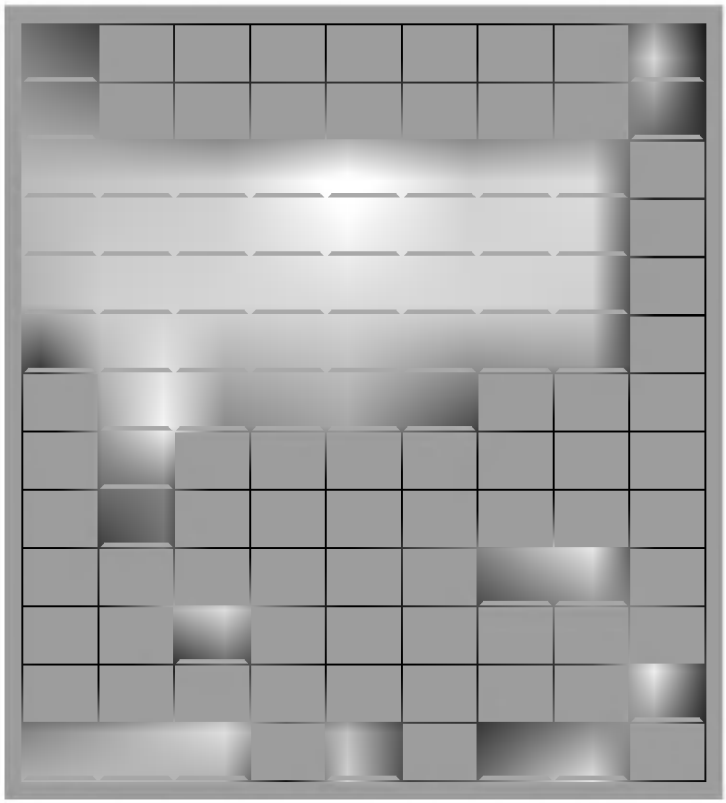
Lines or streaks in picture

Poor reception on some channels

No colour

Poor colour

Remote control does not work



Check these items and try to adjust these

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)