



# Colour Television

## OWNER'S MANUAL

Please read this manual carefully before operating your set.  
Retain it for future reference.  
Record model number and serial number of the set.  
See the label attached on the back cover and quote this information to your dealer when you require service.

Model number :  
Serial number :

P/NO : MFL57078301(MC-059C, REV. 04)

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## **Important Precautions**

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This unit has been engineered and manufactured to assure your personal safety, however improper use may result in potential electrical shock or fire hazards. In order to allow the proper operation of all safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing. Keep it in an accessible place for future reference.

### **On Safety**

The power supply cord is used as the main disconnect device. Ensure that the socket-outlet is easily accessible after installation.

Operate the TV set only from a power source indicated in the specifications of this manual or listed on the TV set. If you are not sure what type of power supply you have in your home, consult with your dealer.

Overloaded AC outlets and extension cords are dangerous. So are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

Hands must be dry when holding the power plug to avoid an electric shock.

Do not damage the power cord by disassembling, bending, pulling or heating up, it can cause fire or electric shock.

Make sure to completely insert the power plug. Insecure connections can cause fire.

### **Do not Open the TV set**

- There are no user serviceable components inside.
- There are Dangerous High Voltages inside, even when the power is OFF.
- Contact your dealer if the TV is not operating properly.

### **To Avoid Personal Injury :**

- Do not place the TV set on a sloping shelf unless properly secured.
- Use only fixed wooden stand. The TV shall be positioned 5cm behind the front edge of an open fronted with 1cm free space along the sides top and 5cm depth behind the TV.
- Do not try to roll a stand with small casters across thresholds or deep pile carpets.

### **To Prevent Fire or Hazards:**

- Always turn the TV set OFF if you leave the room for more than a short period of time. Never leave the TV set ON when leaving the house.
- Keep children from dropping or pushing objects into the TV cabinet openings. Some internal parts carry hazardous voltages.
- Do not add accessories that have not been designed for this TV set.
- During a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and external socket.
- Do not bring magnetic devices such as magnets or motors near the picture tube.

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## Important Precautions

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### On Installation

Do not allow anything to rest upon or roll over the power cord, and do not place the TV set where the power cord is subject to damage.

### 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.

### Service

Do not attempt to service the TV set yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

### Aerial

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

### Location

Do not use this TV near water such as near bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

TV set are provided with ventilation openings in the cabinet to allow the release of heat generated during operation. If these openings are blocked, built-up heat can cause failures which may result in a fire hazard. There fore,

- The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table cloths, curtains, etc.
- Never place the TV set in a built-in enclosure unless proper ventilation is provided.
- No naked flame source such as lighted candles should be placed on the TV.
- Never place the TV set near or over a radiator or heat source.
- Position your set so that no bright light or sunlight falls directly onto the screen.

### On Cleaning

- Unplug the TV set before cleaning the face of the TV screen.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the TV screen because overspray may cause electric shock.

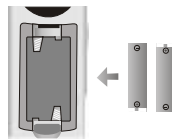
### On Repacking

- Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it in its original material.

**Caution:** Please do not use stabilizer with TV set as this set has inbuilt voltage stabilizer. Use of inferior quality stabilizer may damage the set.

### Battery installation

The remote control handset is powered by two AA/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 ( $\oplus$  and  $\ominus$ ) 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.

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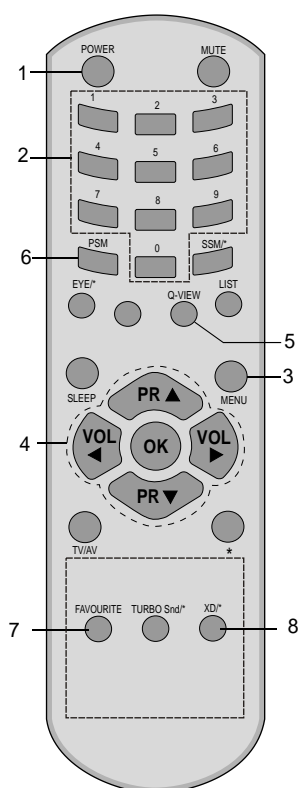
## Location and function of controls

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All the functions can be controlled with the remote control handset. Some functions can also be adjusted with the buttons on the 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. ▲ (▲) / ▼ (▼) (Programme Up/Down)**  
selects a programme or a menu item.  
switches the set on from standby.  
scans programmes automatically.  
**◀ / ▶ (Volume Down/Up)**  
adjusts the volume.  
adjusts menu settings.  
**OK**  
accepts your selection or displays the current mode.
- 5. Q-VIEW**  
returns to the previously viewed programme.
- 6. PSM (Picture Status Memory)**  
recalls your preferred picture setting.
- 7. FAVOURITE**  
selects a favorite programme.
- 8. XD/\* (option)**  
select XD picture.

**Note:**

To remove dirt or fingerprint on the surface of your TV, please rub with a line-free cloth supplied in the accessory. Do not pose too much pressure in cleaning so as to prevent any risk of damage to the product. (only for 21FU3 series models.)

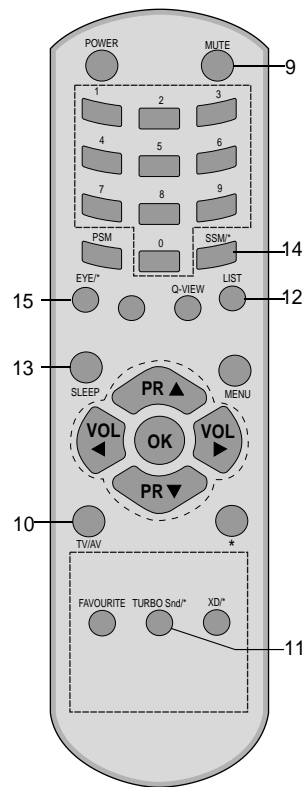
## Location and function of controls

- 9. MUTE**  switches the sound on or off.
- 10. TV/AV**  selects TV or AV mode, switches the set on from standby.
- 11. TURBO Snd/\* (option)** select Turbo sound.
- 12. LIST** displays the programme table.
- 13. SLEEP** sets the sleep timer.
- 14. SSM/\* (Sound Status Memory) (option)** recalls your preferred sound setting.
- 15. EYE /\* (option)** switches the eye function on or off.

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

**Remarks :**

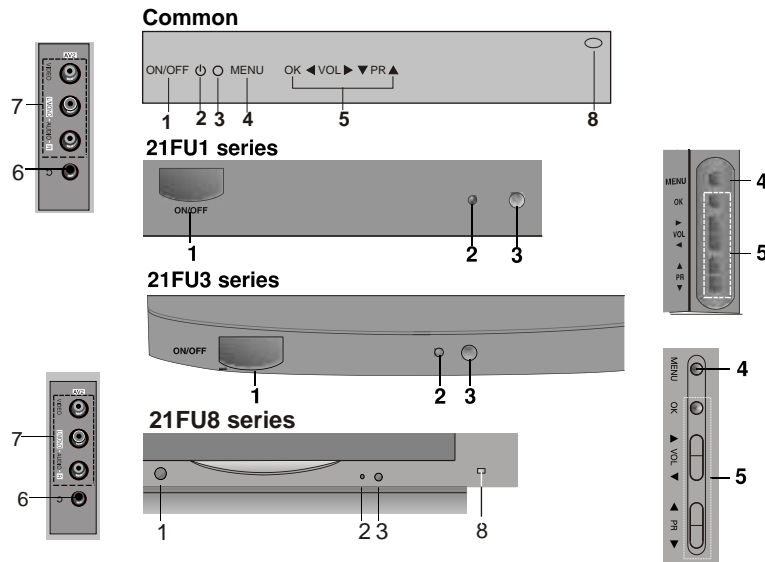
- 1. Some keys in remote can be non-functional, these keys are use in other models.
- 2. Keys marked \* are non functional.



## Location and function of controls

### FRONT PANEL / SIDE PANEL (Option)

Shown below is a simplified representation of front or side panel, here shown may be somewhat different from your set.



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 Down/Up**)  
adjusts the volume.  
adjusts menu settings.  
▲ / ▼ (**Programme Up/Down**)  
selects a programme or a menu item.  
switches the set on from standby.
6. **HEADPHONE SOCKET (option)**  
Connect the headphone plug to this socket.
7. **AUDIO/VIDEO IN SOCKETS (AV2/AV3) (option)**  
Connect the audio/video out sockets of External equipment to these sockets.
8. **EYE (option)**  
adjusts picture according to the Surrounding conditions.

*Note : Do not place any heavy objects on the TV set.*

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

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## Basic operation

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### 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.

### Q-view

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

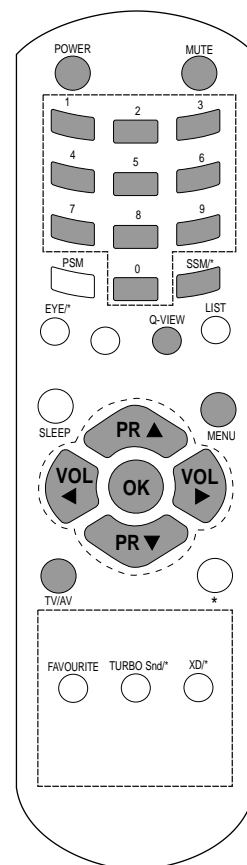
### Mute function

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

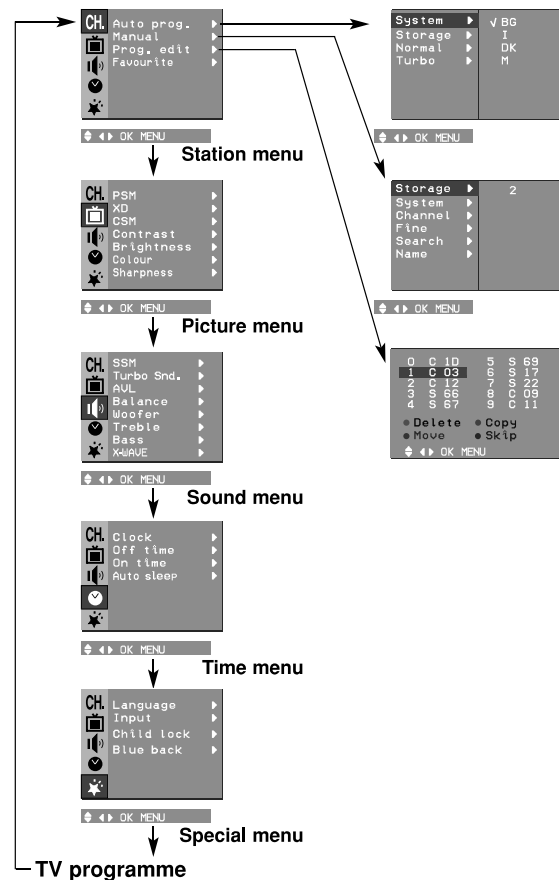
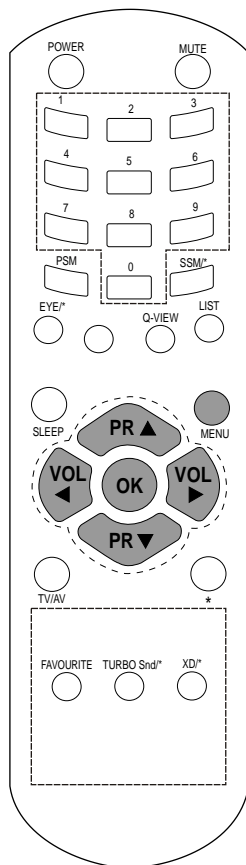
### Menu selection

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.
- e. In some models **Auto off** or **Auto Sleep** will display in the **Time** menu.



## Setting up TV stations

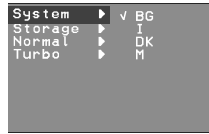
Up to 100 TV stations can be stored by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the ▲ / ▼ or NUMBER buttons to scan the stations you programmed. Stations can be tuned using automatic or manual modes.

**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.

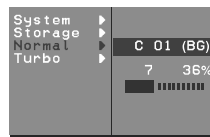


4. Press the ► button. Select a TV system with the ▲ / ▼ button on the **System** pull-down menu;
  - BG** : (Asia/New Zealand/M.East/Africa/Australia)
  - I** : (Hong Kong/South Africa)
  - DK** : (East Europe/China/Africa/CIS)
  - M** : (USA/Korea/Philippines) (option)
5. Press the **OK** or ◀ button.
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**.

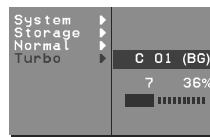
**Option:** In some models, you can only select **Start**.

**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.

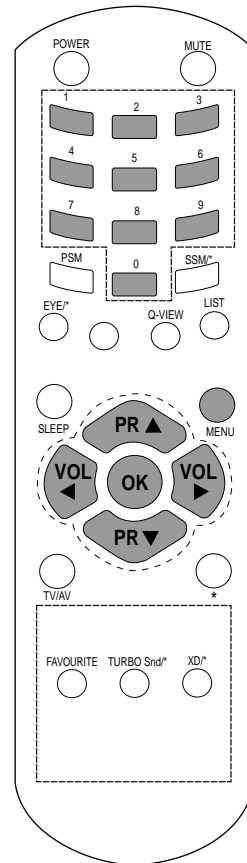


(Normal search)

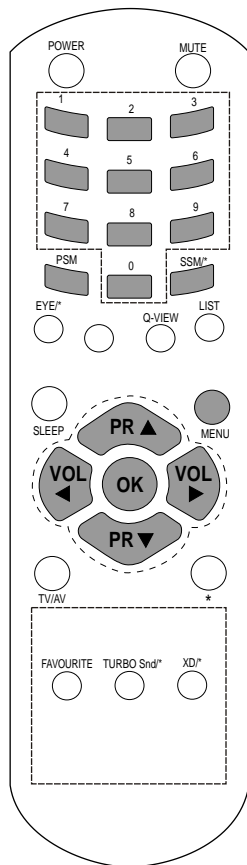


(Turbo search)

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.



# Setting up TV stations



## Auto programme scan

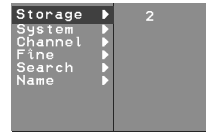
To automatically scan the pictures of stored programmes, press the **▲**(▲) or **▼**(▼) button for about 3 seconds. The picture of stored programmes appears on the screen one by one.

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

## Manual programme tuning

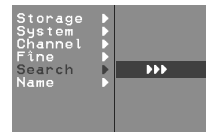
Manual programme lets you manually tune and arrange the stations in whatever order you desire. Also you can assign a station name with five characters to each programme number.

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.

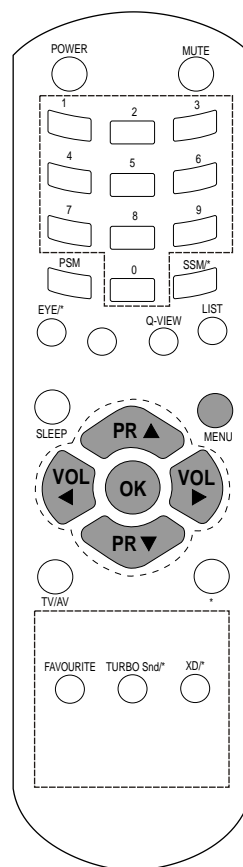


### Booster (option)

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.



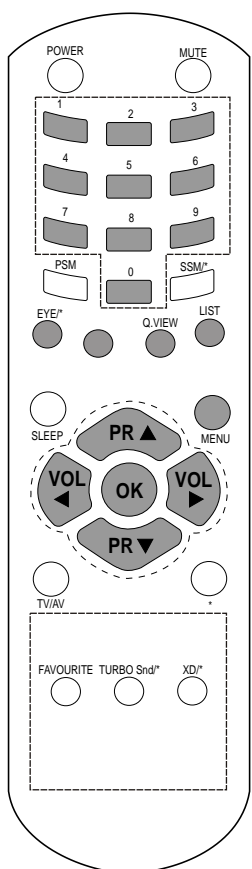
## Setting up TV stations



### 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

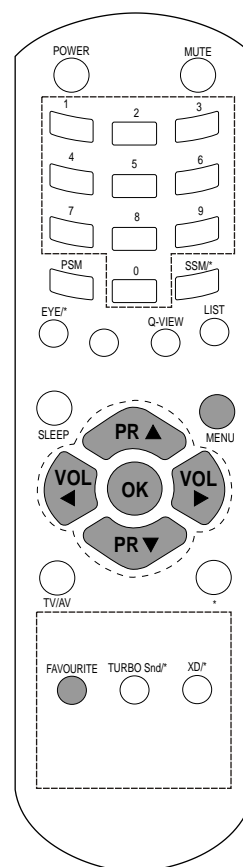
This function lets you select your favourite programmes directly.

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	1D	S	69
1	C	03	S	17
2	C	12	S	22
3	C	03	S	05
4	C	03	S	11

### 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.

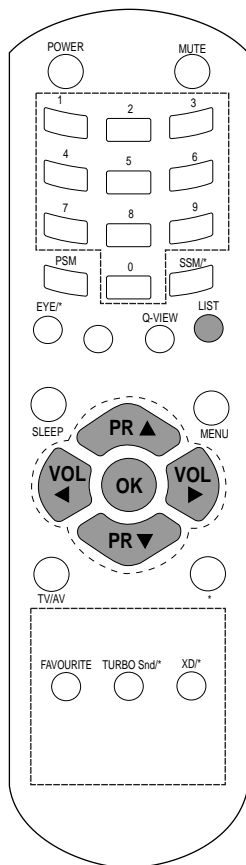
### Selecting a programme in the programme table

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.

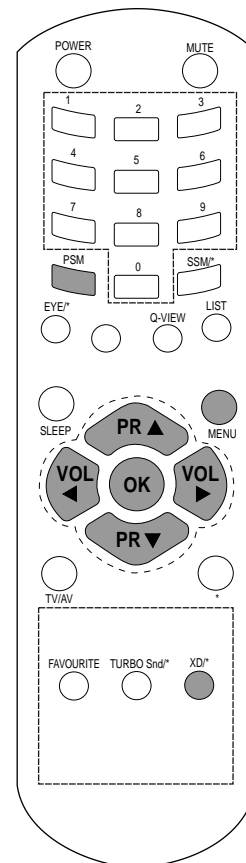


4. Press the **OK** or **◀** button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

### 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.



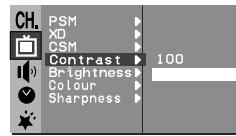


# Picture adjustment

## 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

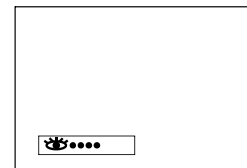
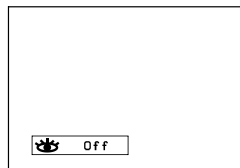
4. Press the **OK** button to store it for the picture user.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

## 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.

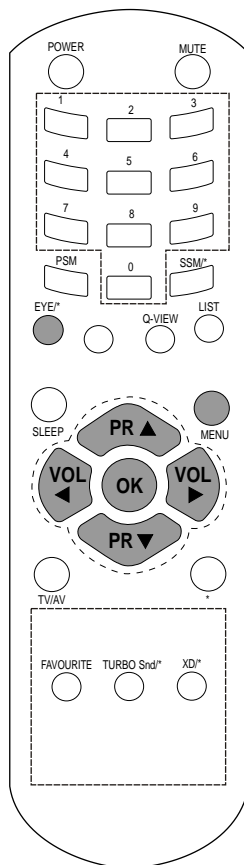


When the eye function is on, the most suitable picture is automatically adjusted according to the surrounding conditions.

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.



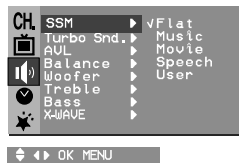
## Sound adjustment (option)

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

### SSM (Sound Status Memory)

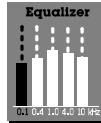
You can select your preferred sound setting; Flat, Music, Movie or Speech and you can also adjust the sound frequency of equalizer.

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 (option)

- 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**.

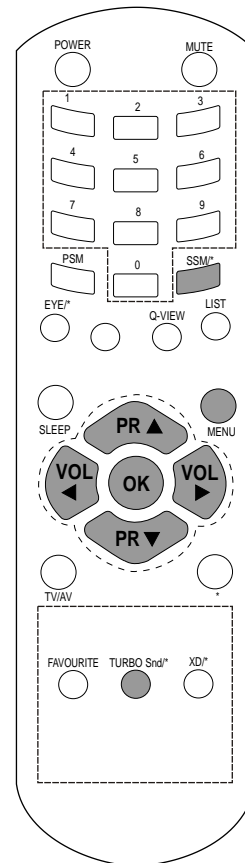
### Turbo sound selection (option)

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)



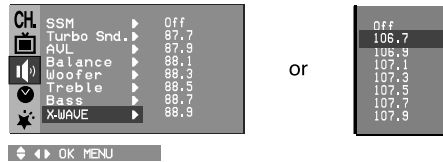
### Sound adjustment

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.

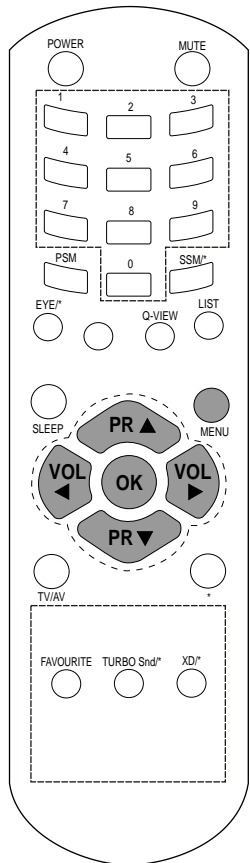
Some models are displayed as shown below.

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).



## 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.

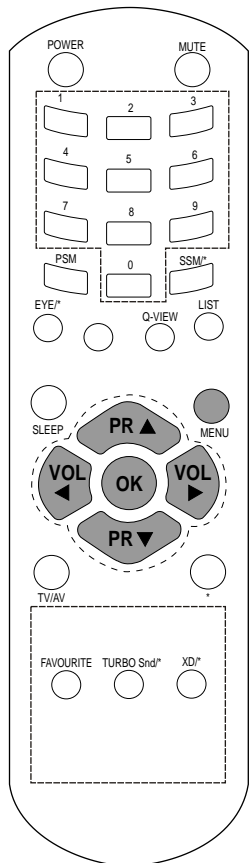
#### Note :

- 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 Sleep or Auto Off

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



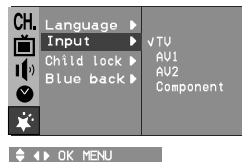
## Other functions

### 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 **AV IN1** socket 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)

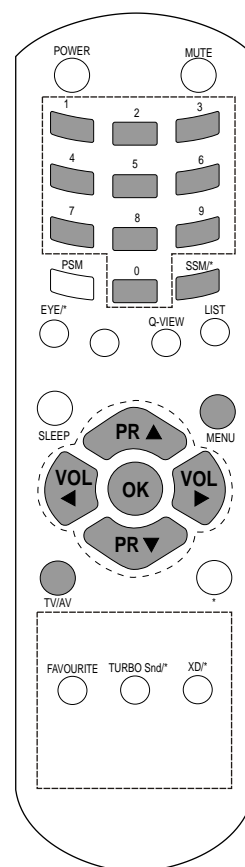
4. Repeatedly press the **MENU** button to return to normal TV viewing.

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.

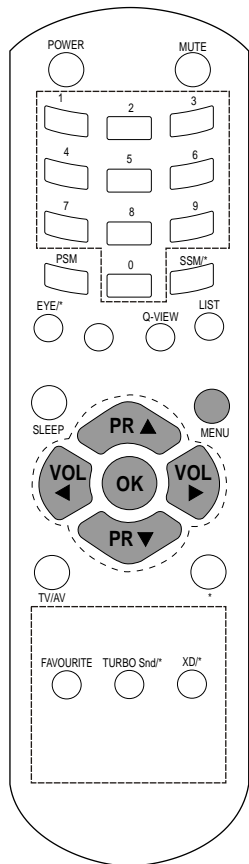
With the lock on, the display **Child lock on** appears on the screen if any button on the panel is pressed while viewing the TV.

### 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.

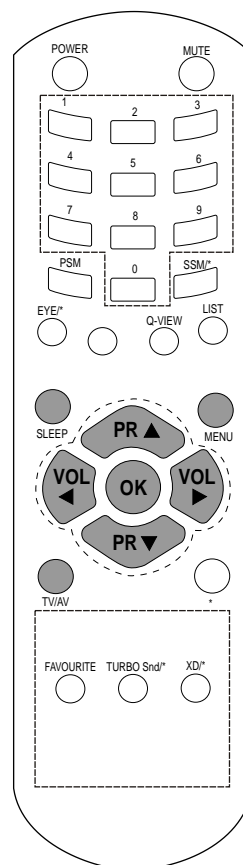
### Sleep timer

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.

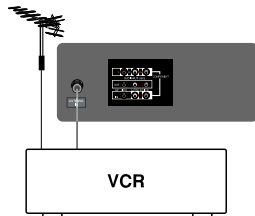
Press the **SLEEP** button to select the number of minutes. The display **⏰ - -** will appear on the screen, followed by **10, 20, 30, 60, 90, 120, 180** and **240**. The timer begins to count down from the number of minutes selected.

#### 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.



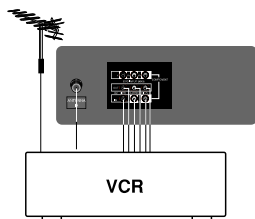
## Connection of external equipment



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

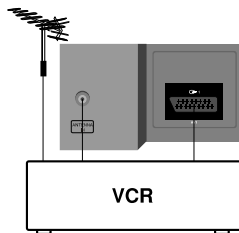
### Aerial socket

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)

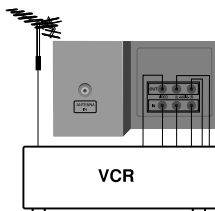
1. Connect the audio/video out sockets of the VCR to audio/video in sockets of the set and in sockets of the VCR to out sockets of the set.
2. If the VCR is connected to the AV sockets on the set, press the **TV/AV** button to select **AV** (or **AV1**).
3. Press the **PLAY** button on the VCR. The VCR playback picture appears on the screen.



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

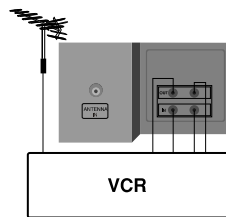
**Note :** If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO L/MONO** socket of the set.

### 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.



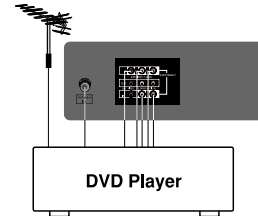
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## Connection of external equipment

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### Component in sockets (option)

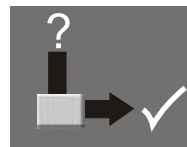
1. Connect the COMPONENT video output sockets (Y Cb Cr, Y Pb Pr or Y B-Y R-Y) of the DVD player to the COMPONENT INPUT sockets (Y P<sub>B</sub> P<sub>R</sub>) on the set.
2. Connect the audio cable from the DVD player to AUDIO IN sockets of **AV** (or **AV1**).
3. Press the **TV/AV** button to select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



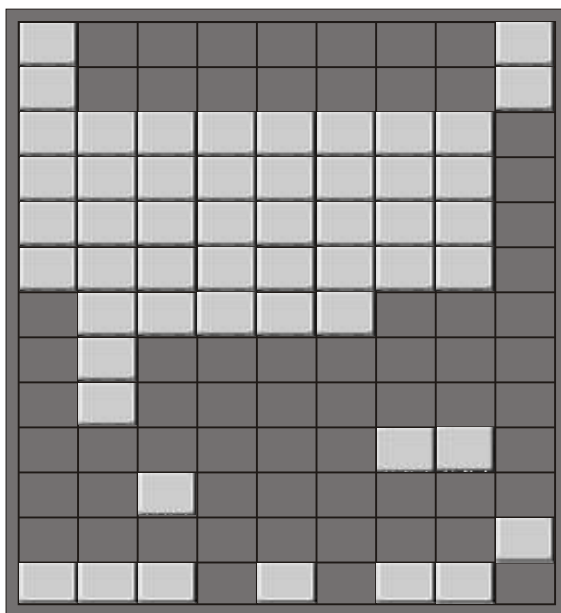
## Troubleshooting check list

### 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 following 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)

### NOTE :

- i) Colour patch might appear in your TV set if you rotate or shift the position of the set while it is On or in standby mode. If patch appears in your TV set try the following before calling your service centre or dealer. Place the TV set in desired position and switch it Off by the main power switch. Allow the set to cool down for at least 30 minutes and then switch it On. The degaussing circuit (inbuilt) in your set will remove the patch automatically. Please call service only in case this operation does not help.
- ii) In case of no sound on all channels, country broadcasting system.
- iii) When the TV set is switched Off in Standby mode, It may take some time (upto 15 second) for the LED to switch Off.



