



OWNER'S MANUAL

Colour Television

Chassis : CW91A/C




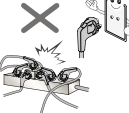





P/No.: MFL66302301 (02)

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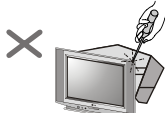
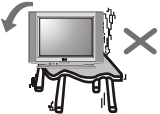
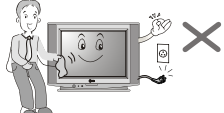
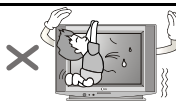

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Important Precautions

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. (TV operating voltage is : 110V ~ 240V AC)

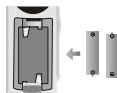
| | |
|---|---|
|  | Make sure to insert the power plug completely. If power cable is not fixed completely, a fire can break out . |
|  | Do not pull out the power cord. Always Pull out by the power plug. Do not touch the plug with wet hands. Do not damage the power cord. |
|  | Do not unplug the power cord while the product is in use. Do not use the power plug to turn the product ON/OFF. Electric shock can damage the product. |
|  | Do not overload AC outlets by plugging too many appliances in the same socket or extension cords. They may result in a shock or fire hazard. |
|  | Never leave the TV set "ON"/"STANDBY" when leaving the house. Unplug the TV before moving it or if you are not going to use it for several days or during lightning storms. |
|  | For Own safety, Never touch any part of product, the power cord, and the antenna cable during lightning storms. You may be electrocuted. |
|  | TV sets are provided with ventilation holes to allow the release of heat generated. Make sure that these holes are not blocked. Do not install the product in a confined place, such as book case or built in cabinet . |
|  | Do not place any object filled with liquid such as Vases, cup, glass etc on the TV set. Do not place the lighted candles on the TV set. This may cause fire or an electric shock hazard. |
|  | If you can smell a smoke or other odors or hear a strange sound unplug the power cord and contact the service center. If you continue to use, electric shock can occur. |

Important Precautions

| | |
|---|---|
|  | Do not place the product where it might be exposed to excessive heat, sunlight, rain or moisture. |
|  | Do not attempt to open the product. There are dangerous High Voltages inside. Refer to Servicing through Qualified Personnel if the TV is not operating properly. |
|  | Avoid personal injury / set damage by Installing the product on a flat and stable place that can support the weight of the set and has no risk of dropping the product. |
|  | While cleaning the product, Unplug the Power cord and clean with dry & soft cloth. Do not use thinner, aerosol or any other chemical to clean . |
|  | Do not allow children to climb over it. If the product falls / collapses, you may be hurt. Do not drop or push objects (like coins, hair pins etc) into the TV cabinet openings. Some internal parts carry hazardous voltages. |
|  | While moving the product , Make sure the product is turned Off, unplugged and all cables have been removed. It may take 2 or more people to carry larger TVs. You may contact the qualified service technician for moving or replacing this product after installing . |

- Do Not use the stabilizer, as this set has a In built stabilizer. Use of External Inferior Quality stabilizer may damage your product .

Battery Installation: The remote control Handset is powered by two AA/ AAA batteries. To Load the Batteries, turn the remote control handset over and open the battery compartment. Install two batteries as per the polarity symbols (⊕ and ⊖) marked inside the battery compartment .



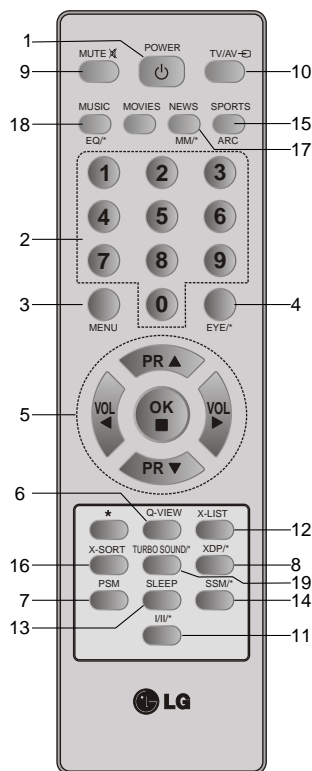
- To avoid battery leakage and damage to the remote, remove the batteries from the remote if you are not going to use it for several days. If any liquid leaks from the batteries and touches your skin, immediately wash it away with water.

Location and function of controls

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

Remote control handset

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



1. **POWER**
Switches the set from On to standby or standby to On.
2. **NUMBER BUTTONS**
Switches the set On from standby or directly select a Programme number.
3. **MENU**
Selects a menu.
4. **EYE/*(option)**
Switches the eye function On or Off.
5. **▲/▼ (Programme Up/Down)**
Selects a programme or a menu item.
Switches the set On from standby.
If X-Sort is On, switches to the next Programme in the same group.
◀/▶ (Volume Up/Down)
Adjusts the volume.
Adjusts menu settings.
OK accepts your selection or displays the current mode.
6. **Q. VIEW**
Returns to the previously viewed programme.
7. **PSM (Picture Status Memory)**
Recalls your preferred picture setting.
8. **XDP/***
Selects Excellent Digital Picture.
9. **MUTE**
Switches the sound On or Off.
10. **TV/AV**
Selects TV or AV mode.
Switches the set On from Standby.
11. **I/II/*(option)**
Selects the language during dual language broadcast (option).
Selects the sound output in AV mode.
12. **X-LIST (option)**
Displays the programme table. Press X-LIST key again to clear the X-LIST table from the screen.
13. **SLEEP**
Sets the sleep timer.
14. **SSM/* (option) (Sound Status Memory)**
Recalls your preferred sound setting.
15. **ARC**
Change picture format (Normal/Zoom).
16. **X-SORT (option)**
X-SORT switches X-SORT (option) On/Off.
17. **MM/***
Selects music mode.
18. **EQ/* (option)**
Direct access key to select EQ (Graphics Equalizer).
19. **TURBO SOUND/* (option)**
Selects Turbo sound.

COLOURED BUTTONS : When Menu is On, these buttons are used for programme edit.

Remarks : 1. Some keys in remote can be non-functional, these keys are used in other models & marked with*.
2. Colour keys will not work as direct access keys during X-Sort On mode.

Remote Design / Aesthetic may vary from model to model.

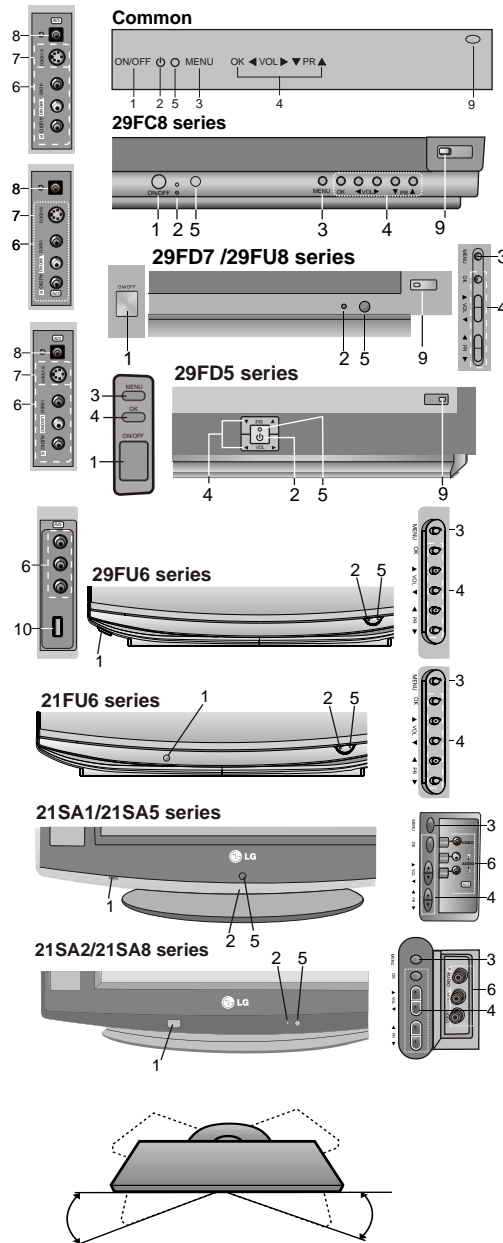
Turbo Sound is equivalent to XDS.

When Turbo Sound is ON, SSM is not applicable.

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. MENU**
Selects a menu.
- 4. 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.
If X-Sort is On, switches to the next programme in the same group.
- 5. REMOTE CONTROL SENSOR**
Note : Only use the supplied remote control handset. (When you use others, they will not be able to function.)
- 6. AUDIO/VIDEO IN SOCKETS (AV IN2) (option)**
Connect the audio/video out sockets of external equipment to these sockets.
- 7. S-VIDEO/AUDIO IN SOCKET(S-AV) (option)**
Connect the video out socket of an S-VIDEO VCR/DVD to the S-VIDEO socket. Connect the audio out sockets of the S-VIDEO VCR/DVD to the audio sockets as in AV-2.
- 8. HEADPHONE SOCKET (option)**
Connect the headphone plug to this socket.
- 9. EYE (option)**
Adjusts picture according to the surrounding conditions.
- 10. USB - socket (option)**
Connect the USB pen drive to this socket.

SWIVEL STAND

This feature is available with 21SA1/21SA5 model only.

After installing the TV, you can adjust the TV set manually to the left or right direction by 15 degrees to suit your viewing position.

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.

Q.VIEW

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

Mute function

Press the **MUTE** button. The sound is switched Off and the display  appears.

You can cancel it by pressing the **MUTE**, **◀ / ▶**, **SSM/***, **AVL**, **TURBO SOUND/*** button.

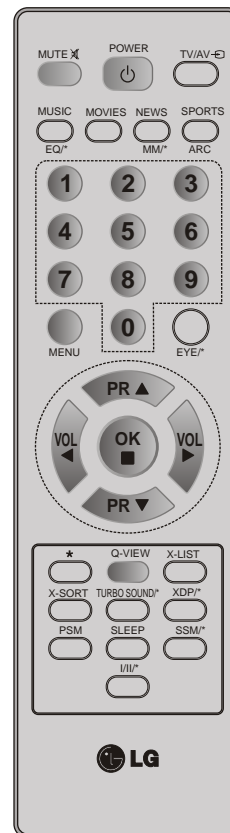
On screen Display language selection (Option)

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 **◀ / ▶** button to select desired language.

All the on screen displays will appear in the selected language. Press the **MENU** 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.

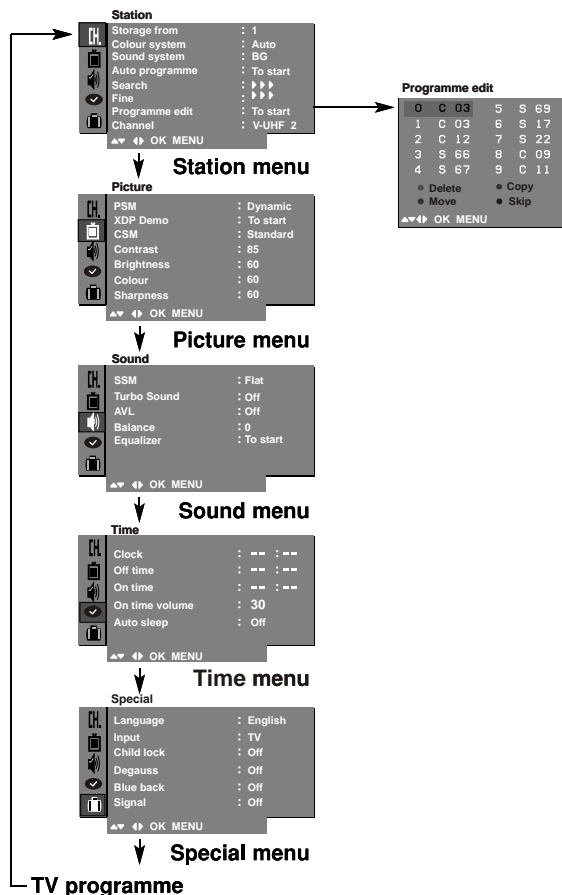
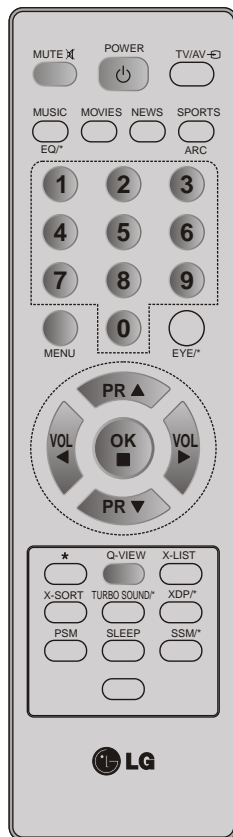
Menu selection

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 menu.

You can move to the lower level menu with the **OK** button and to move to the higher level menu press the **MENU** button.

Note :

- In the teletext mode, menus are not displayed.*
- In some models **Degauss** will not display.*
- In AV mode, **Blueback**, **Signal** will not display.*



Setting up TV stations

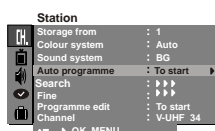
Up to 200 TV stations can be stored by programme numbers (0 to 199). Once you have preset the stations, you will be able to use the ▲ / ▼ or **NUMBER** buttons to scan the stations you programmed. Stations can be tuned using automatic or manual modes.

Note : In some models up to 100 TV stations can be stored.

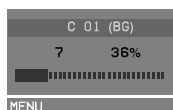
Auto programme

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.
2. Press the ► button to select **Storage from**.
3. Select the beginning programme number with the ◀/▶ button on the **Storage from** menu.



4. Press ▲ / ▼ button to select **Auto programme**.
5. Press the ► or **OK** button to begin auto programming.



All receivable stations are stored.

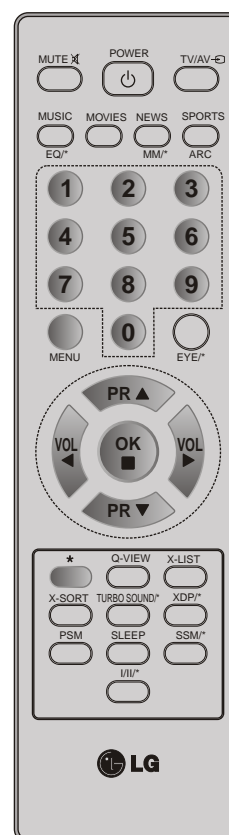
To stop auto programming, press the **MENU** button.

When auto programming is completed, the Programme Edit menu appears on the screen. See the 'Programme edit' section to edit the stored programme.

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

Note :

- a. If the programmed station has poor quality and sound, select the **Sound system** again in the **Programme** menu.



Setting up TV stations

Search

Search lets you manually tune and arrange the stations in whatever order you desire.

1. Press the **MENU** button to select the **Station** menu.



2. Press the **►** button to select **Storage from**.
3. Select the desired programme number (0 to 199) with the **◀/▶** button.
4. Press the **OK** button.
5. Press **►** button to select **Colour system**. Press **◀/▶** button to select the **AUTO**, **PAL**, **PAL60**, **NTSC**, **NTSC4.43**, **SECAM**. Press **OK** button.
6. Press the **▲/▼** button to select **Sound system**. Press **◀/▶** button to select the **BG**, **I**, **DK**, **M**.
BG : (Asia/New Zealand/M.East/Africa/Australia)
I : (Hong Kong/South Africa)
D : (East Europe/China/ Africa/CIS)
M : (USA / Korea/Philippines) (option)
 Press **OK** button.
7. Press the **▲/▼** button to select **Search**.
8. Press the **◀/▶** button to commence searching on the **Search** menu. If a station is found the search will stop.
9. Press the **OK** button to store it. The display **Stored** will appear.
10. To store another station, repeat steps 2 to 9.
11. Repeatedly press the **MENU** button to return to normal TV viewing.

Fine Tuning

Normally Fine Tuning is necessary only if reception is poor.

1. Press the **MENU** button. Then Press **►** button to select the **Station** menu.
2. Press **▲/▼** button to select **Fine**.
3. Press the **◀/▶** button step by step to fine tune for the best picture and sound.



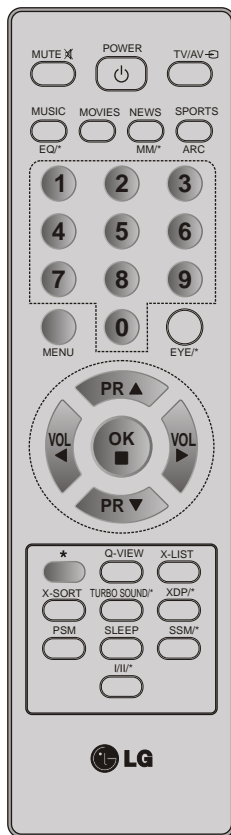
4. Press the **OK** button to store Fine Tuned channel.
5. Repeatedly press the **MENU** button to return to normal TV viewing. The finely tuned programme will be indicated by yellow number during programme selection.

Channel Selection (option)

1. Press the **MENU** button, press **►** button and press **▲/▼** button to select **Channel** on **Station** menu.
2. Press **►** button to select **V-UHF** or **Cable** on the **Channel** menu.
3. Press number key to select the channel number directly. Any number under 10 is entered with a numeric **'0'** (or **'00'**) in front of it, i.e. **'05'** for 5.
4. Press the **OK** button to store it, the display **Stored** will appear.



5. 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 or copy or move the stored programmes. Also you can move some stations to other programme numbers.

1. Press the **MENU** button, Press the **►** button and then **▲/▼** button to select the **Programme edit** menu.
2. Press **►** button to go in **Programme edit** menu.

| Station | |
|----------------|---------------------------|
| CH | Storage from : 1 |
| | Colour system : AUTO |
| | Sound system : BG |
| | Auto programme : To start |
| | Search : ►►► |
| | Fine : ►►► |
| | Programme edit : To start |
| | Channel : V-UHF 2 |
| ▲▼ ◀ ▶ OK MENU | |

| Programme edit | | | |
|----------------|------|--------|------|
| 0 | ---- | 5 | S 07 |
| 1 | C 02 | 6 | S 10 |
| 2 | C 04 | 7 | C 17 |
| 3 | C 06 | 8 | C 08 |
| 4 | S 01 | 9 | C 09 |
| ● Delete | | ● Copy | |
| ● Move | | ● Skip | |
| ◀▶ OK 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.
The selected programme is copied 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.

Programme edit

| | | | | | |
|---|---|----|---|---|----|
| 0 | S | 44 | 5 | C | 08 |
| 1 | C | 02 | 6 | C | 10 |
| 2 | S | 44 | 7 | C | 12 |
| 3 | S | 45 | 8 | C | 21 |
| 4 | C | 05 | 9 | C | 34 |

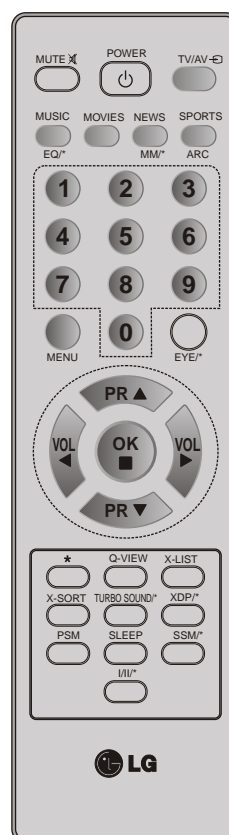
● Move off

▲▼◀▶

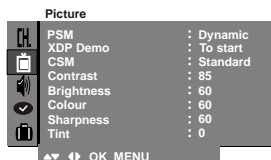
MENU

Skipping a programme

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 **X-List** menu. Skipped prog. No. appears **BLUE**.
4. Skipped programmes can be selected in **X-List**.
Repeatedly press the **MENU** to return to normal TV viewing.



Picture adjustment



PSM (Picture Status Memory)

1. Press the **MENU** button and then ▲/▼ button to select the **Picture** MENU.
2. Press ► button to select **PSM**, press ◀/▶ to select the desired **PSM (Standard, Dynamic, Mild, Game, or User)**.

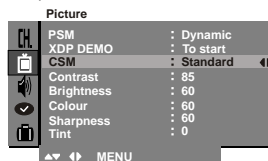
Note: PSM status change to user automatically when Contrast, Brightness, Colour and Sharpness set manually.

XDP Demo (option)

1. Press the **MENU** button and ▲/▼ to select the **Picture** menu.
2. Press the ► to select **XDP Demo**.
3. Screen splits for Demo.
4. Press any button for XDP Demo exit.

CSM (Colour Status Memory)

1. Press MENU button and then ▲/▼ button to select the **Picture** menu.
2. Press ► button and ▲/▼ button to select CSM, press ◀/▶ to button select the desired **CSM (Standard, Reddish, Greenish Or Bluish)**.



Picture adjustment

You can adjust picture contrast, Brightness, colour, 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, Sharpness or Tint**.

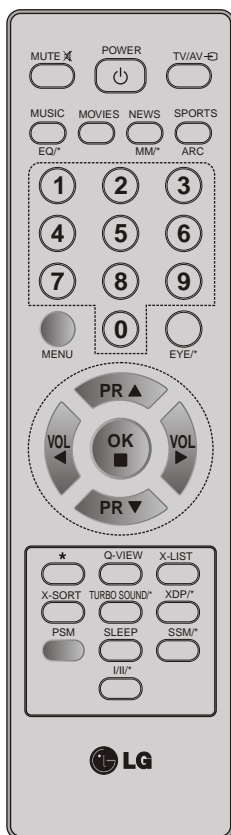


3. Press the ◀/▶ button to make appropriate adjustments on each sub menu.



You can also select User or standard PSM setting by directly pressing **PSM** button.

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



Picture adjustment

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 :

- The eye function is automatically switched Off. When PSM, XDP keys pressed or any of the picture settings are changed.

Picture format (ARC) (option)

You can watch TV in various picture formats; Normal, Zoom.

Repeatedly press the **ARC** button to select your desired picture format.

Normal (4:3)

This picture format is 4 : 3 of general TV.

Zoom (14:9)

You can enjoy the cinema in a vast screen through the Zoom mode. The screen 4:3 is magnified to the upper/lower sides so that the screen 16:9 is full. The bottom and top of the picture may be lost.

Note :

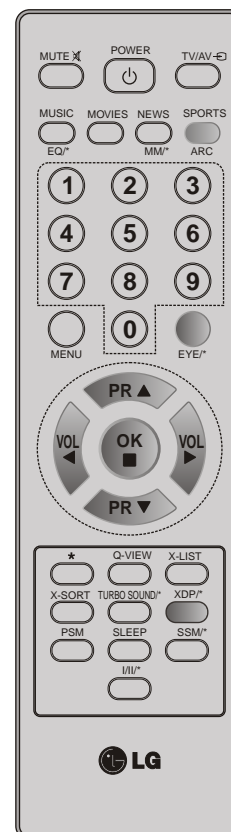
- When you switch the set to **Off**, the **Zoom** picture format is reset to the **Normal (4:3)**.
- This menu will appear only in English.

Excellent digital picture selection

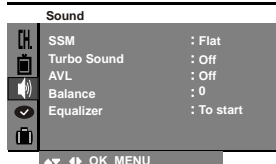
When this function is **On**, picture quality will be enhanced. Repeatedly press the **XDP** button to switch **On** or **Off**.



Note : If you press the **PSM** or **EYE/★** button with the **XDP** function, the excellent digital picture function is automatically switched **Off**.



Sound adjustment



Sound adjustment

You can select your preferred sound setting: Flat, Music, Movie, Sport, User and you can also adjust the sound frequency of Equalizer and Balance.

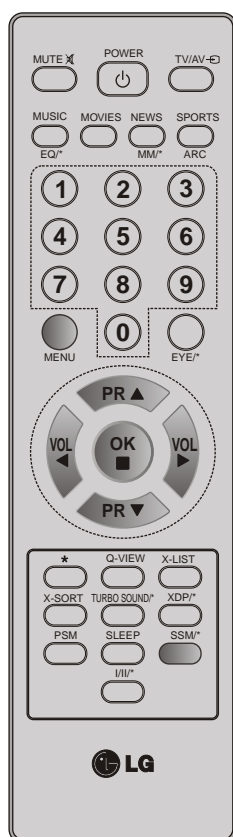
If you switch **AVL** (option) to **On**, the set automatically keeps on an equal volume level even if you change programmes.

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; **SSM**, **AVL**, **Balance**, **Turbo sound**, **Equalizer**.
3. Press the **▶** button to select **SSM**.
Press **◀/▶** to select **Music**, **Movie**, **Sport**, **User** or **Flat**.

To recall your preferred setting press the **SSM/*** button until the desired sound (Flat, Music, Movie, Sport or User) appears. The sound **Flat**, **Music**, **Movie** and **Sport** are programmed for good sound reproduction at the factory and cannot be changed.

Notes :

AVL option will not be available in some models.



Sound adjustment

Turbo Sound selection (option)

When this function is **On**, it will give surround effect as well as loudness will be increased.

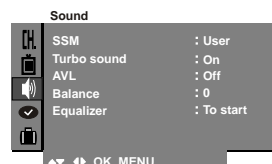
Repeatedly press the **Turbo sound** button to switch **On** or **Off**.

Turbo Sound On

(Turbo Sound On)

Turbo Sound Off

(Turbo Sound Off)



AVL (Auto Volume Leveler) (option)

If you select AVL On, the set automatically keeps on an equal volume level even if you change programmes.

1. Press the **MENU** button and then **▲/▼** button to select the **Sound** Menu.
2. Press the **►** button and then **▲/▼** button to select AVL.
3. Press the **◀/▶** button to select On or Off on the AVL menu.
4. Press the **MENU** button to return to normal TV viewing.

Balance adjustment

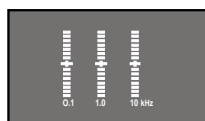
You can adjust balance.

1. Press the **MENU** button and select the **Sound** menu.
2. Press the **►** button and then **▲/▼** button to select **Balance** menu.
3. Make desired adjustment with the **◀/▶** on the Balance
4. Repeatedly press the **MENU** button to return to normal TV viewing.

Equalizer

1. Select **Sound** menu.
2. Press **►** and **▲/▼** button to select **Equalizer**.
3. Press **►** button and Select a sound band by pressing the **◀ / ▶** button.
4. Frequency level change with **▲ / ▼** button.
5. Press the **OK** button to store it for the sound user.

Sound Frequency Adjustment

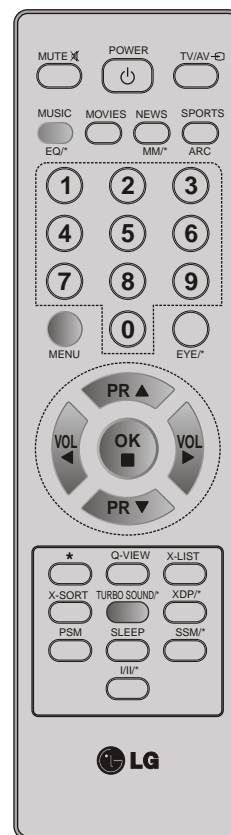


▲▼ ◀▶ OK MENU

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

Note:

If any frequency of equalizer is adjusted then SSM mode automatically changes to **User**.



Sound adjustment

Sound output selection (for AV2) (option)

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 speaker and audio signal from audio R input is sent to right speaker.

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

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

Note: Sound output selection is not applicable for **AV1 & Component** mode.

Stereo/Dual reception (option)

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

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

Mono sound selection (option)

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 (option)

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

DUAL I sends the primary broadcast language to the speakers.

DUAL II sends the secondary broadcast language to the speakers.

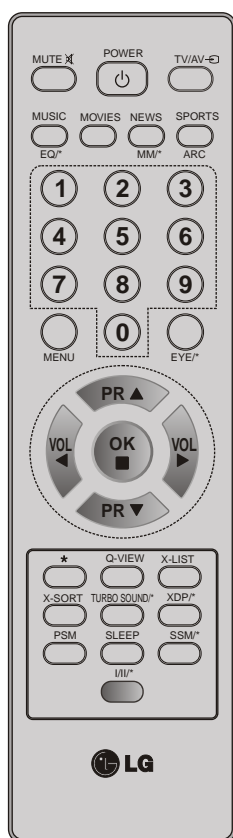
DUAL I+II sends a separate language to each speaker.

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 by pressing the **I/II/*** button repeatedly.

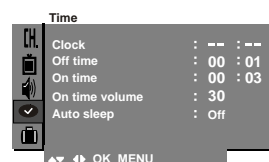
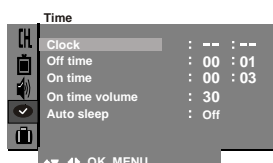
1. When NICAM mono is received, you can select **NICAM MONO** or FM MONO.
2. When NICAM stereo is received, you can select **NICAM STEREO** or FM MONO. If the stereo signal is weak, switch to FM mono.
3. When NICAM dual is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II**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



Time Setting

Setting the clock

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

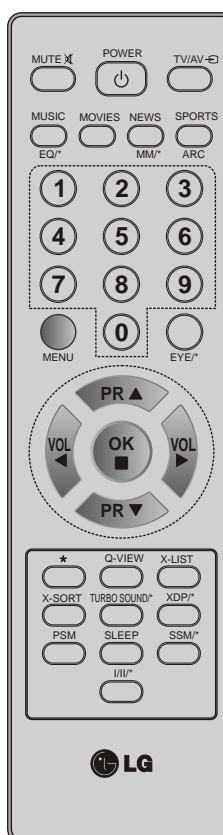
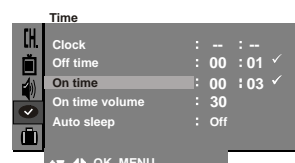


4. Press the **▶** button and then **▲ / ▼** button to adjust the minute.
5. Press the **OK** button.
6. Repeatedly press the **MENU** button to return to normal TV viewing.

Setting the On/Off timer

By using this function, the set automatically switches On or Off at a preset time. You must set the time correctly before using the 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. Press **▶** and then **▲ / ▼** button to enable Off/On time
6. Press **▲ / ▼** button to select On time volume.
7. Press **◀ / ▶** button to adjust volume level.
8. Repeatedly press the **MENU** button to return to normal TV viewing.

Note :

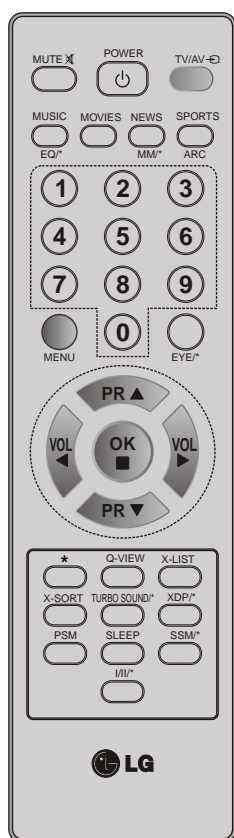
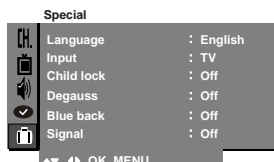
- a. On time works only in standby mode.
- b. To view the remaining On/Off time, select the Time menu.
- c. When you switch the main power Off, the Clock is reset .

Auto sleep

If you select ON on the Auto sleep 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 **◀ / ▶** button to select On or Off in the Auto sleep menu.
4. Repeatedly press the **MENU** button to return to normal TV viewing.

Other functions



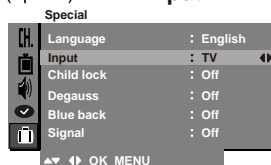
Language: Ref: page No. 7

TV and AV modes

Inputs can be set for TV or AV mode. AV mode is used when a VCR/DVD, 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.
 - In AV mode, **Blue back, Signal** will not work.
- Press the **MENU** button and then **▲ / ▼** button to select the **Special** menu.
 - Press the **▶** button and then **▲ / ▼** button to select Input.
 - Press the **◀ / ▶** button to select **TV, AV1, AV2, S-VIDEO**(option), **Component**(option) on the **Input** menu.



AV1 : VCR connected to the Euro scart socket or **AV IN 1** sockets on the set

AV2 : VCR connected to the **AV IN 2** sockets on the set (Option).

S-VIDEO: DVD players/Laptop output connected to **S-VIDEO** socket (option).

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

- 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 **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.

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.

- Press the **MENU** button and then **▲ / ▼** button to select the **Special** menu.
- Press the **▶** button and then **▲ / ▼** button to select Child lock.
- Press the **◀ / ▶** button to select On or Off in the Child lock menu.
- Repeatedly press the **MENU** button to return to normal TV viewing.

With the Child Lock On, the display Child Lock On appears on the screen if any button on the front panel is pressed while viewing the TV.

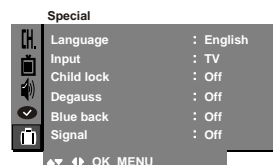
Other functions

Degauss (option)

Due to the super large Tube in the set, the colour purity of the picture may be affected by other magnetic influences such as speakers. Stripes may appear on the screen or there may be colour patches.

1. Press the **MENU** button and then **▲ / ▼** button to select the **Special** menu.
2. Press the **►** button and then **▲ / ▼** button to select **Degauss**.
3. Press the **◀ / ▶** button to select On on the **Degauss** menu.
After the degauss function works, On mode switches to Off mode automatically.
4. Repeatedly press the **MENU** button to return to normal TV viewing.

Note : If you cannot adjust the screen condition by degaussing, try it again after about 4 minutes.



Blue back (option)

If you select On on the **Blue back** sub 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 to select On or Off on the **Blue back** menu.
4. Repeatedly press the **MENU** button to return to normal TV viewing.

Signal (option)

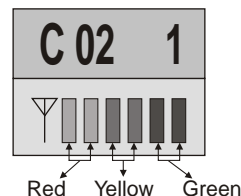
It displays the RF signal strength.

1. Press the **MENU** button and then **▲ / ▼** button to select the **Special** menu.
2. Press the **►** button and then **▲ / ▼** button to select **Signal**.
3. Press **◀ / ▶** button to select On or Off on the **Signal** menu.
4. Repeatedly press the **MENU** button to return to normal TV viewing.

Signal Level Description

To see signal level on top right corner press **OK** button from remote. Signal to noise ratio will be displayed in form of red, yellow and green bars. Details are as follows:-

1. Two red bars - weak signal. (More Noise)
2. Two red+ two yellow bars - Normal signal. (Normal Noise)
3. Two red+ two yellow + two Green bars - perfect signal. (No Noise)
4. No signal - Without any bar. (Very Noisy signal)



Music Mode (Yellow Button)

You can hear music while the TV screen is Off using the function.

1. Press the Yellow button to start the music mode.
2. Press any key to exit from Music mode except vol. keys/yellow/MM Key.
3. Volume level can be changed (Vol+/Vol-) in music mode.



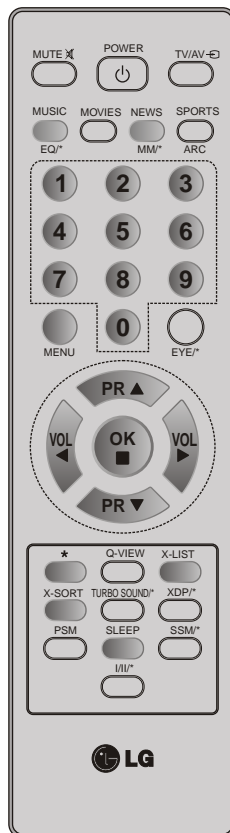
Equalizer (Red button)

Equalizer is displayed on the screen by pressing the red button.



Note: These function of the coloured buttons are available only when X-SORT function is Off.

Other functions



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.

Repeatedly 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 :

- To view the remaining sleep time, press the **Sleep** button once.
- To cancel the sleep time, repeatedly press the **Sleep** button until the display appears.
- When you switch the set Off, the set releases the preset sleep time.

X-SORT

You can select the different programmes and add them into different categories (Music, Movies, News, Sports).

Press X-SORT button on the remote to switch On/Off the X-Sort function.

X-Sort On Sel: News

Press the coloured buttons to select the programme to desired category.

If X-Sort is On, switches to the next programme in the same group.

When X-Sort is On:

- MUSIC (RED KEY) : Selects Music channels group.
- MOVIES (GREEN KEY) : Selects Movies channels group.
- NEWS (YELLOW KEY) : Selects News channels group.
- SPORTS (BLUE KEY) : Selects Sports channels group.

Adding a program to a desired category

- Press the X-List button to display the list of the programme on the screen.
- Use / or / buttons to scrolls between the programmes and then press OK to select the desired programme.
- Press appropriate coloured key to add the selected programme in the desired category. Press again the coloured buttons to free the programme from the X-SORT Categories.

X- List

| | |
|---------|---------|
| 10 C 05 | 15 C 07 |
| 11 C 04 | 16 C 23 |
| 12 C 09 | 17 C 24 |
| 13 C 11 | 18 S 40 |
| 14 C 16 | 19 S 45 |
| Free | |
| Music | Movies |
| News | Sports |
| MENU | |

- Red button-Music programmes category.
- Green button-Movies programmes category.
- Yellow button-News programmes category.
- Blue button-Sports programmes category.

Note: X-LIST, X-SORT keys works only in RF mode (TV mode)

Connection of external equipment

You can connect additional equipment, such as VCR/DVD camcorders etc. to your set. What is shown here may be somewhat different from your set.

Aerial socket

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

Audio/Video in/out sockets (option)

1. Connect the audio/video out sockets of the VCR/DVD to audio/OUT video in sockets of the set and in sockets of the VCR/DVD to RF sockets of the set.
2. If the VCR is connected to the AV sockets on the set, press the **TV/AV** button to select **AV1**, **AV2**.
3. Press the **PLAY** button on the VCR/DVD. The VCR/DVD 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/DVD, connect the audio cable from the VCR/DVD, to the **AUDIO L/MONO** socket of the set.

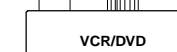
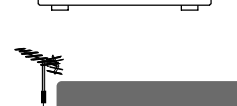
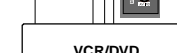
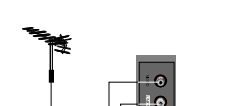
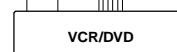
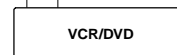
Euro scart socket (option)

1. Connect the Euro scart socket of the VCR/DVD to the Euro scart socket of the set.
2. Press the **PLAY** button on the VCR/DVD. If your VCR/DVD outputs a switching voltage when connected to Euro scart socket, the set will switch to **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 **AV1** The VCR/DVD playback picture appears on the screen.

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

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



Connection of external equipment

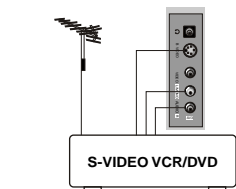
S-VIDEO/ AUDIO in sockets (S-AV) (option)



S-VIDEO VCR/DVD

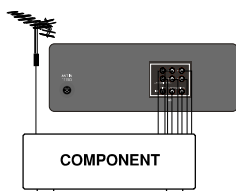
When connecting an S-VIDEO VCR/DVD to S-VIDEO socket, the picture quality will be further improved.

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



S-VIDEO VCR/DVD

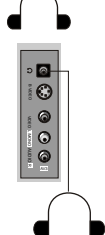
Component in sockets (option)



COMPONENT

1. Connect the COMPONENT video output sockets (Y Cb Cr, Y Pb Pr or Y B-Y R-Y) of the COMPONENT (480i) to the COMPONENT INPUT sockets (Y Pb Pr) on the set.
2. Connect the audio cable from the COMPONENT to AUDIO IN sockets of **AV IN1**.
3. Press the TV/AV button to select Component.
4. Press the **PLAY** button on the Component.
The Component playback picture appears on the screen.

Headphone socket (option)



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

Insert the headphone plug to the headphone socket of the set. You can listen to the sound through the headphone.

If you press the **MUTE** button, the sound from the headphone is switched **Off**.

Troubleshooting check list

Symptoms

No picture, no sound

Sound OK, poor picture

Picture OK, poor sound

Picture blurred

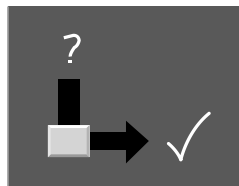
Lines or streaks in picture

Poor reception on some channels

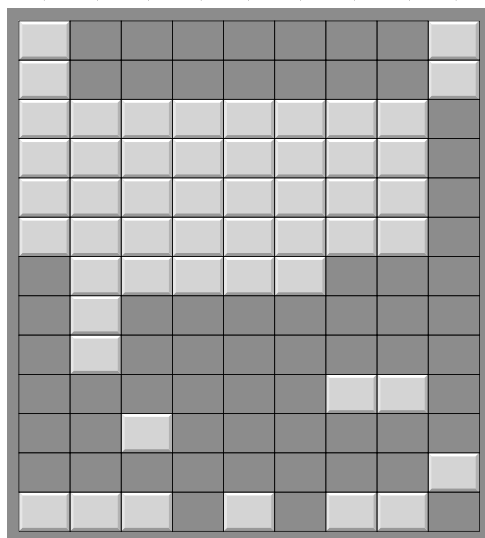
No colour

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)

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) When the TV set is switched Off in Standby mode, It may take some time (upto 15 seconds) for the LED to switch Off.

