LG

# DLP
# PROJECTION TV
# OWNER'S MANUAL

Money Isn't All You're Saving

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 : 3828VA0575E (MB05DB, 136G/100X TX, 486-395C) @

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# Installation

## Power

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

## Warning

To prevent fire or shock hazard, do not expose the set to rain or moisture.
Do not place anything containing liquid on top of the set, this may cause a fire or could give an electric shock.

## Service

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

## Aerial

Connect the aerial cable to the socket marked 1Γ75 Ω on the back cover. For the best reception an outdoor aerial should be used.

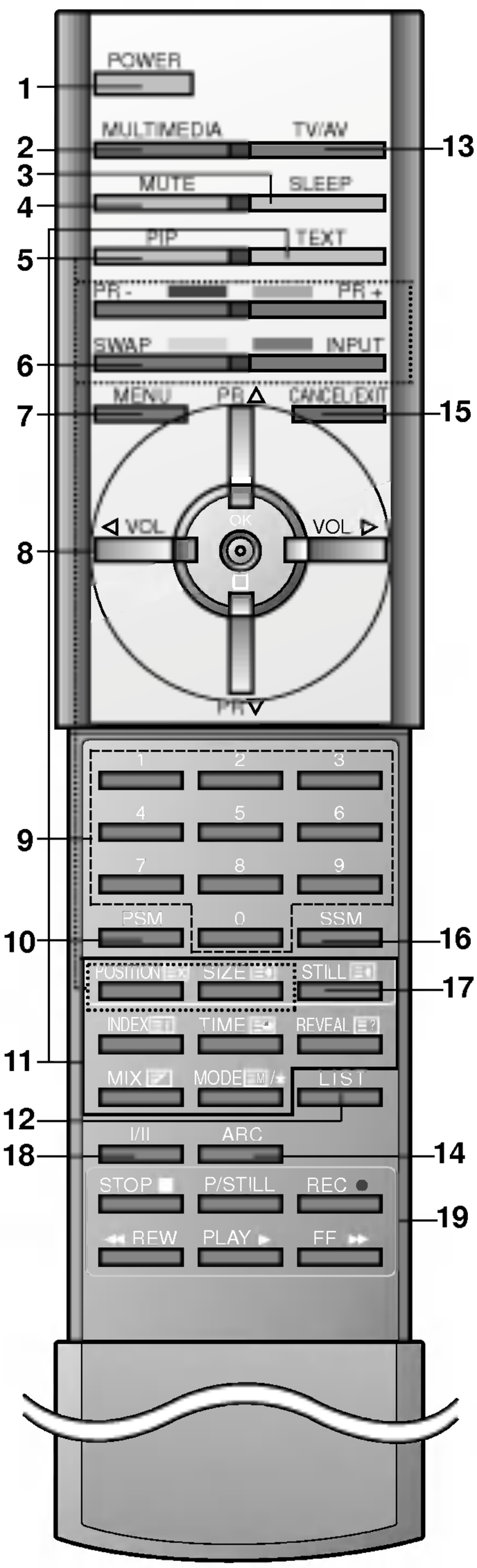
## Location

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.

Avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR, 4:3 picture format or if a CH label is present;
the fixed image may remain visible on the screen.

TO AVOID BURNING IMAGE INTO THE DISPLAY, DO NOT HAVE A STILL IMAGE ON SCREEN FOR EXTENDED PERIOD OF TIME. IMAGE AFTER BURN WILL NOT BE COVERED UNDER WARRANTY ie.Menus, Video games, Borders or LOGOS

# Location and function of controls




**(With TELETEXT)**

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. **MULTIMEDIA**
   selects **Component 1/2**, **RGB or HDMI** modes.
3. **SLEEP**
   sets the sleep timer.
4. **MUTE**
   switches the sound on or off.
5. **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.
   **POSITION**
   Moves the sub picture to ▲ / ▼ or ◄ / ► direction.
6. **SWAP**
   returns to the previously viewed programme.
   selects a favorite programme.
7. **MENU**
   selects a menu.
8. **▲ / ▼ (Programme Up/Down)**
   selects a programme or a menu item.
   switches the set on from standby.
   **◄ / ► (Volume Down/Up)**
   adjusts the volume.
   adjusts menu settings.
   **OK**
   accepts your selection or displays the current mode.
9. **NUMBER BUTTONS**
   switches the set on from standby or directly select a number.
10. **PSM (Picture Status Memory)**
    recalls your preferred picture setting.
11. **TELETEXT BUTTONS (option)**
    These buttons are used for teletext.
    For further details, see the 'Teletext' section.
12. **LIST**
    displays the programme table.

# Location and function of controls

**13. TV/AV**
selects the remote operating mode.
switches the set on from standby.

**14. ARC (Aspect Ratio Control)**
changes the picture format.

**15. CANCEL/EXIT**
Clears all on-screen displays and returns to TV viewing from any menu.

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

**17. STILL**
freezes motion of the picture.

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

**19. VCR BUTTONS**
control a video cassette recorder.

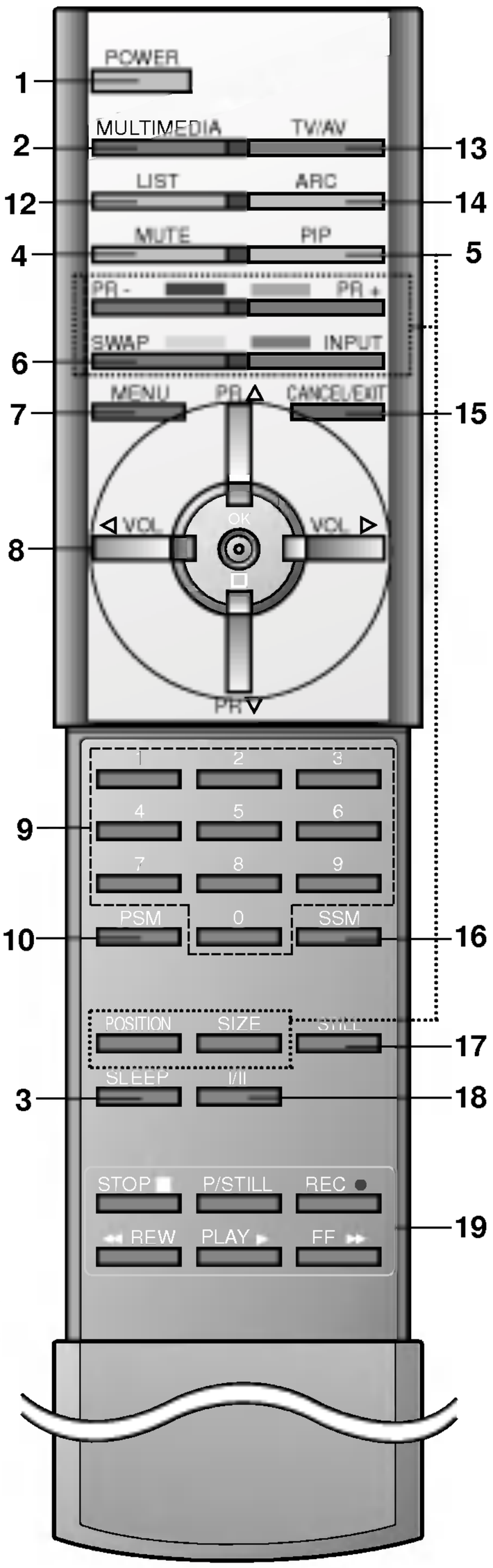
***Note :*** *In teletext mode, the* ***PR + / –****,* ***SWAP*** *and* ***INPUT*** *buttons are used for teletext function.*

## 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.*

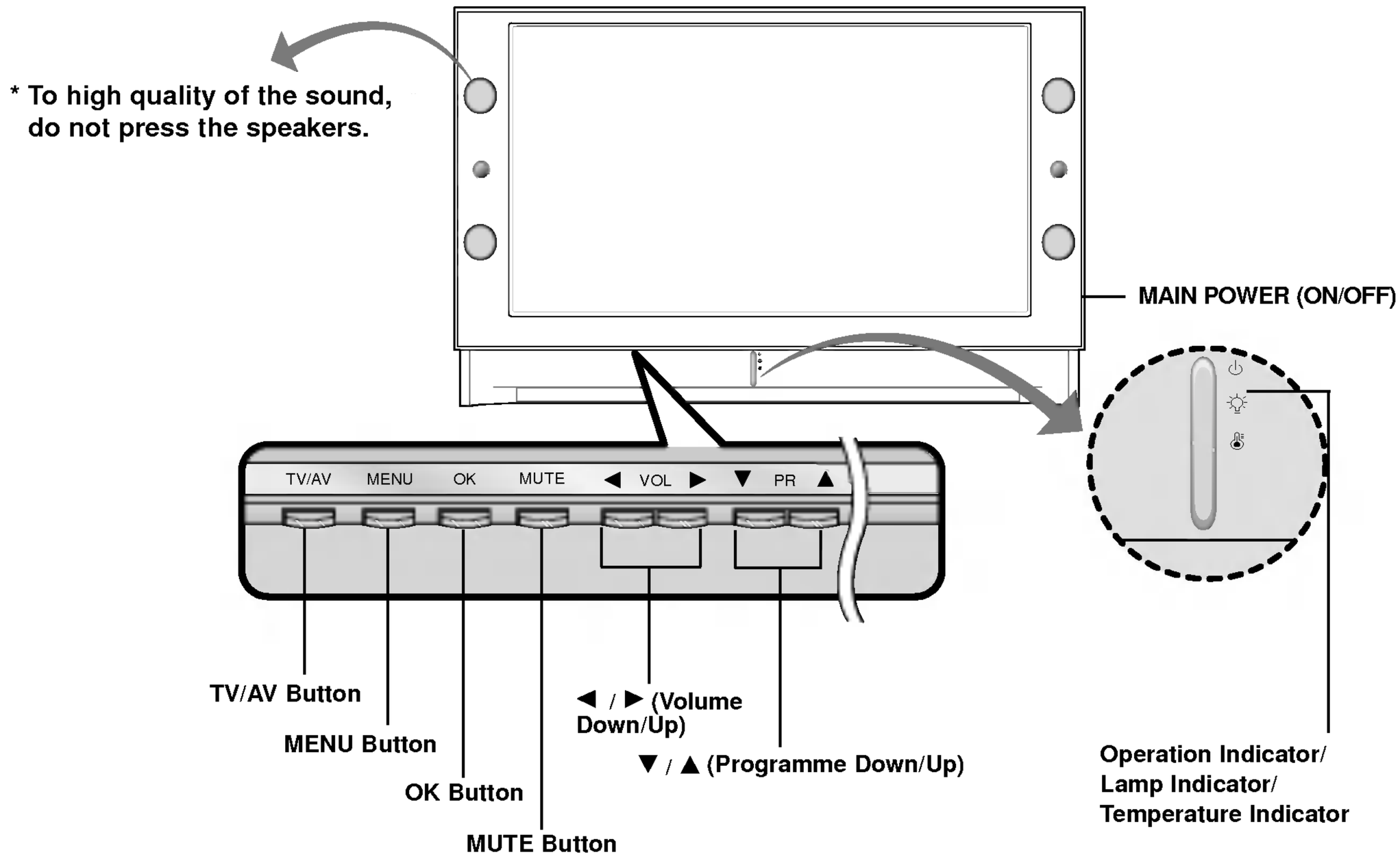



**(Without TELETEXT)**

# Location and function of controls

## Front panel

*Lamp indicator, operation indicator, and temperature indicator, located side the front panel controls reveal the operating status of the DLP(Digital Light Processing) projection TV.*

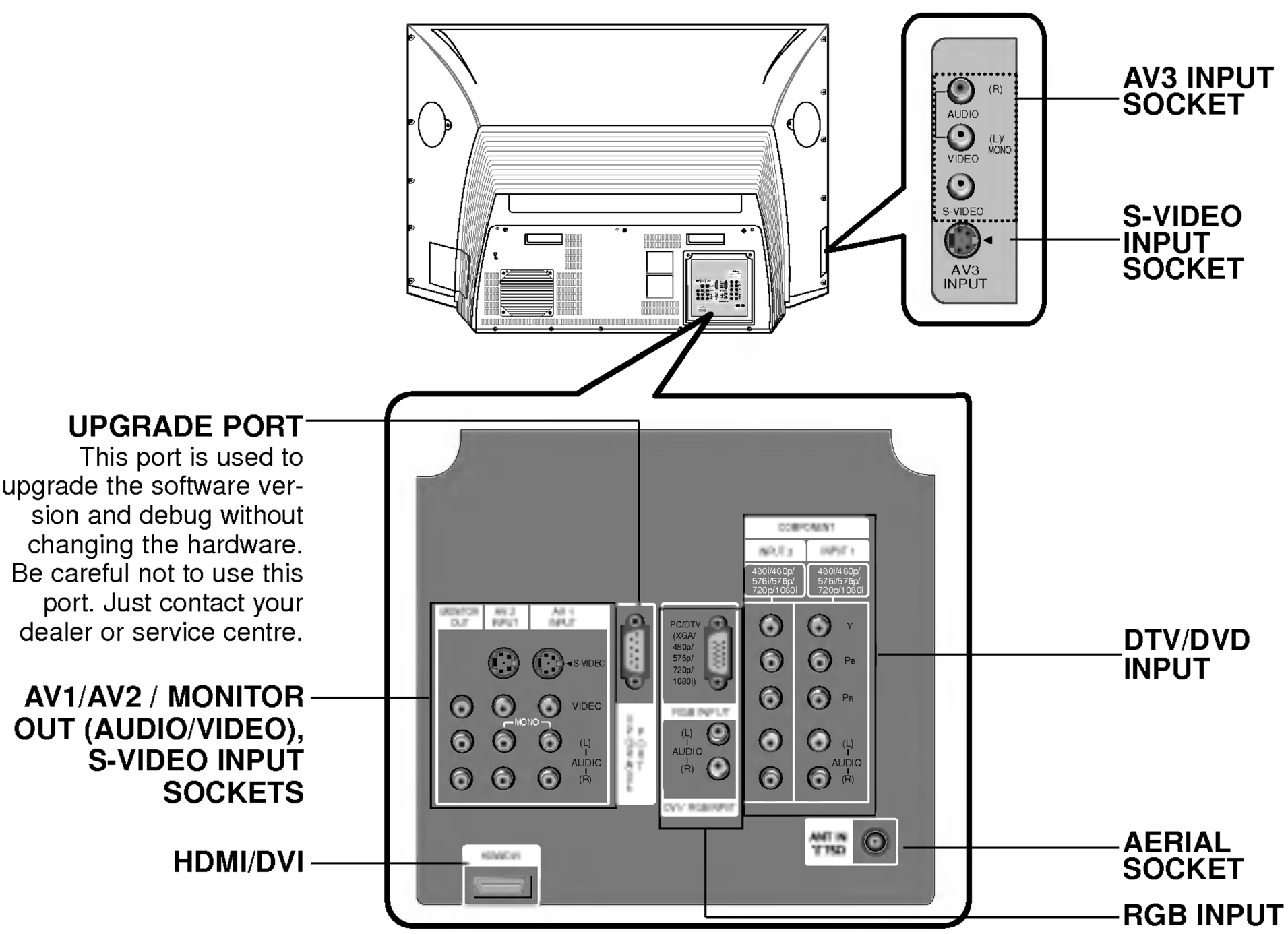



### •Status Indicators

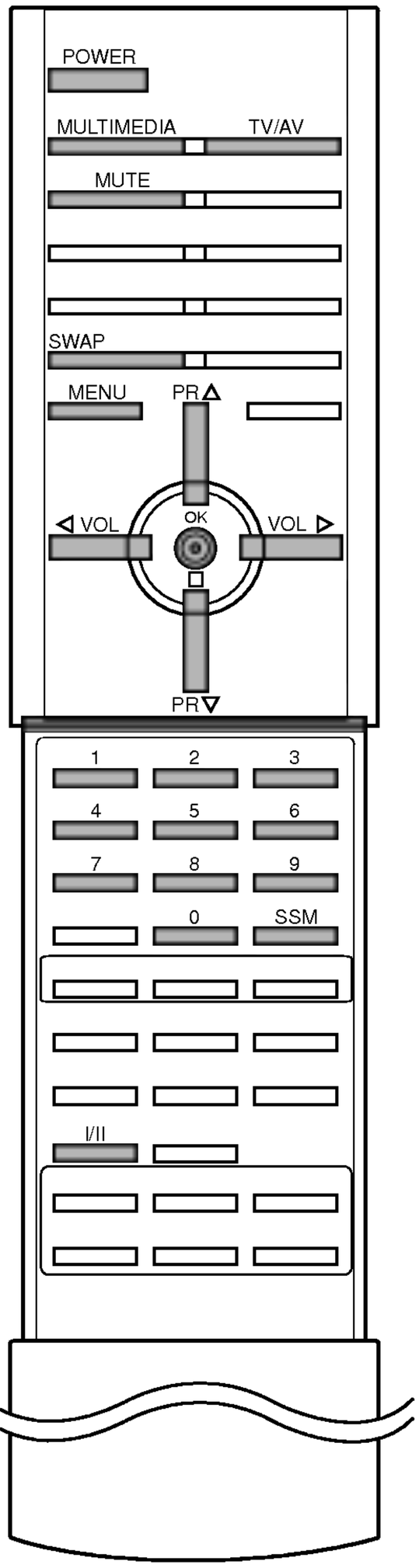
| | | |
|---|---|---|
| Operation Indicator | Off | Power cord is not connected or power switch is off |
| | Red | Power Cord is connected, unit is on standby. |
| | Green | On |
| | White (loading) | Preparing operation in standby. |
| Lamp Indicator | Orange | Projection lamp is reaching the end of its life and needs to be replaced with a new lamp. |
| | Red (flashing) | There is a problem with the lamp or around it. Contact an authorized service center. |
| | Red | Lamp life over. |
| | Green (flashing) | The lamp cover is not closed. |
| Temperature Indicator | Red | The set has shut down due to overheating. After viewing the phrase “Thermal High Error” |
| | Red (flashing) | The set has shut down, check the cooling fan. |

# Location and function of controls

## Rear panel



# Basic Operation




## On and off

1. Before turning the set on, be sure that the main power switch on the set is pushed on.
   When the main switch is pushed on, the LED will be lit up red. This mode is Stand-by.
2. If the set is in stand-by mode, press the **POWER**, ▲ / ▼, **TV/AV**, **MULTIMEDIA** or NUMBER button on the remote control handset to turn it on fully. The LED will blink orange for a while and then lit up green when the power is successfully on.
3. To turn the set off, press the power button on the remote control handset. The set reverts to the stand-by mode.

***Note :***

*a. The lamp cooling fan will continue to spin for approximately 120 seconds after the power is turned off by the remote control handset.*

*b. Normally, don't push off the main power switch. Instead, use the remote control to turn the power off.*

*c. When the set is turned on again immediately after turning off, it takes around 20 to 40 seconds for sufficient cooling.*

*d. When the power is switched off using the main power switch on the set, the internal cooling system also stops operating. Therefore, power-on by main power switch takes around 30 to 50 seconds for sufficient cooling.*

*e. Forced Power-Off : When the set decides itself that the circumstance is not proper for operation, the set will goes to the stand-by mode automatically. Please retry to turn on the set after a short period of time.*

*f. When the set is switched on, there might be a strange sound from the set.*

## 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.

***Note :*** *This function works only when* ***Favourite programme*** *is set to* ***Off****. Otherwise each press of this button will select a stored favourite programme.*

## Mute function

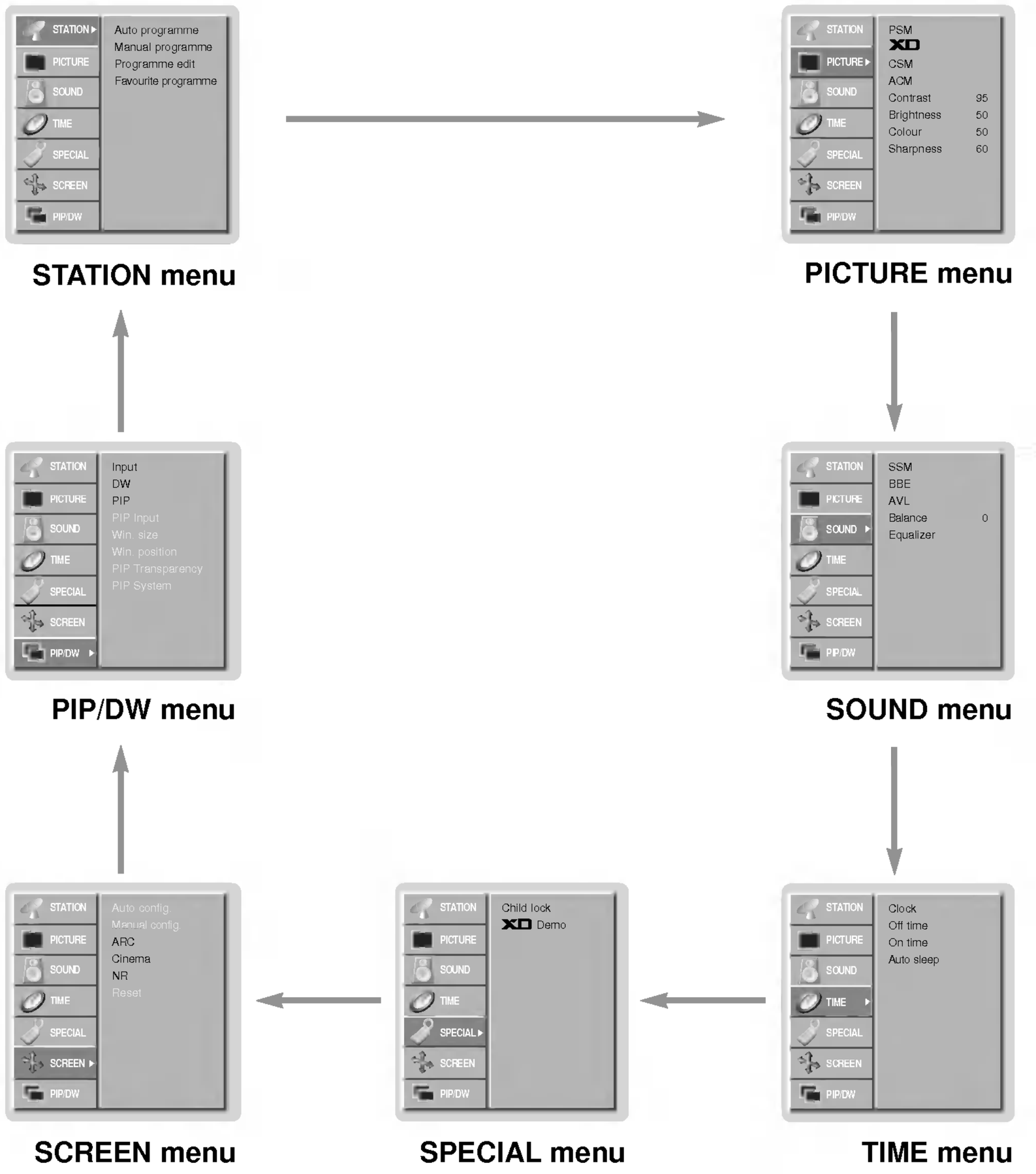
Press the **MUTE** button. The sound is switched off and the display Mute appears.
You can cancel it by pressing the **MUTE**, ◄ / ►, **SSM**, **I/II** button.

# 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.*

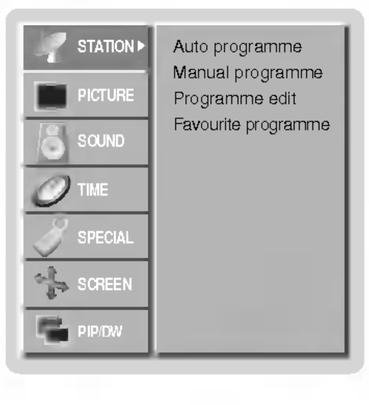
## Menu selection

1. Press the **MENU** button and then ▲ / ▼ button to display each menu.
2. Press the ► button and then the ▲ / ▼ button to select a menu item.
3. Repeatedly press the **MENU** button to return to normal TV viewing.




**STATION menu** **PICTURE menu** **PIP/DW menu** **SOUND menu** **SCREEN menu** **SPECIAL menu** **TIME menu**

# STATION MENU

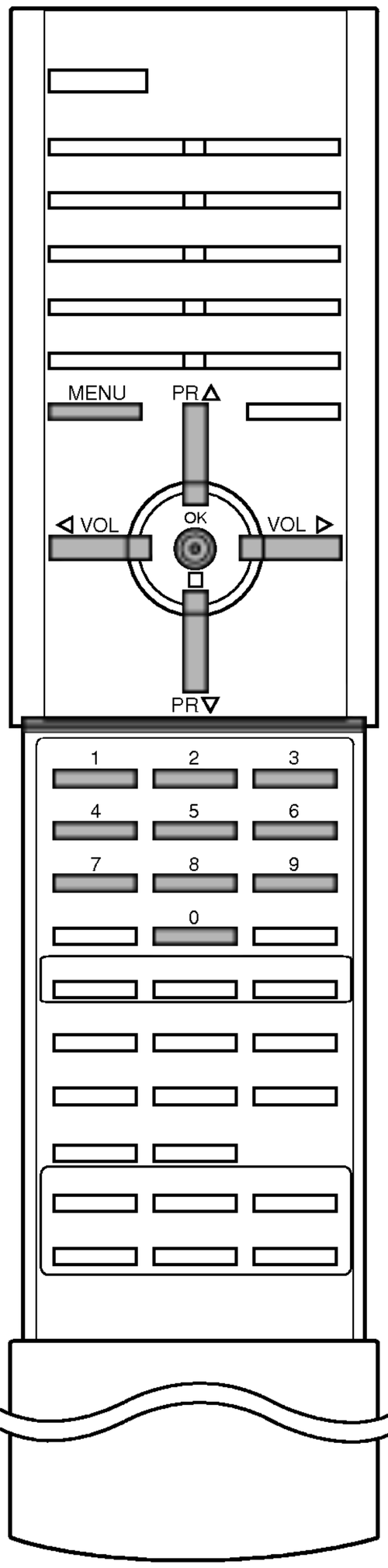



Up to 100 TV stations can be stored in this set by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the ▲ / ▼ or NUMBER buttons to scan the stations you programmed.
Stations can be tuned using automatic or manual modes.

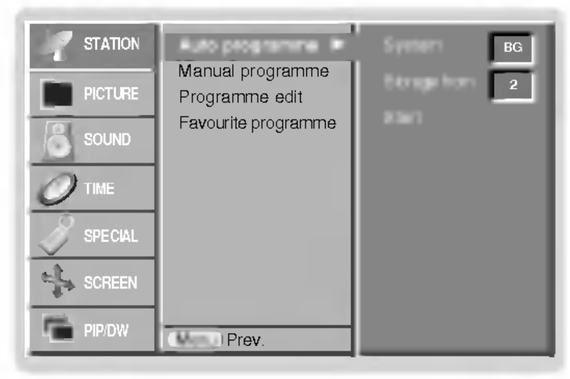
***Note :*** *In some models up to 200 TV stations can be stored.*

## 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.

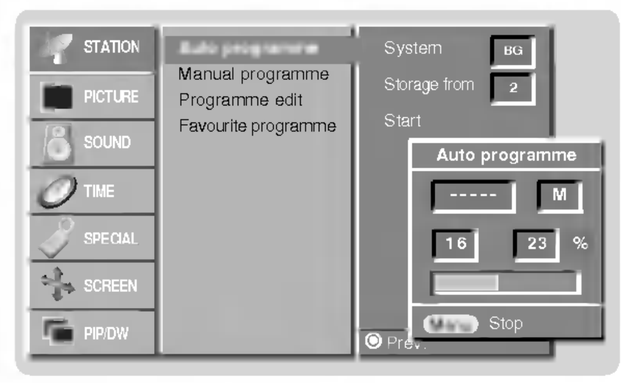



1. Press the **MENU** button and then ▲ / ▼ button to select the STATION menu.
2. Press the ► button and then ▲ / ▼ button to select **Auto programme.**
3. Press the ► button to select **System**. Select a TV system with the ◄ / ► button;




**BG** : (Asia/New Zealand/M.East/Africa/Australia)
**I** : (Hong Kong/South Africa)
**DK** : (East Europe/China/Africa/CIS)
**M** : (USA/Korea/Philippines) (option)

4. Press the ▼ button to select **Storage from**. Select the beginning programme number with the ◄ / ► button or NUMBER buttons on the **Storage from** menu.
5. Press the ▼ button to select **Start**.
6. Press the ► button to begin auto programming.
   To stop auto programming, press the **MENU** button.



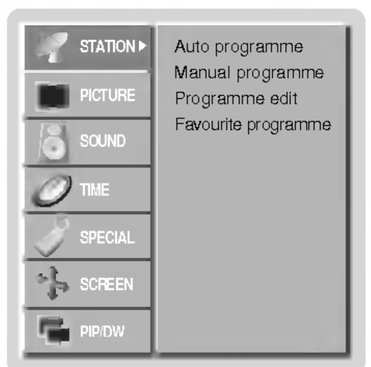

**Option:** In Australia, if no station name can be assigned to a station, the channel number is assigned and stored as ----- followed by a number see 'Assigning a station name' section to assign the station name.
When auto programming is completed, the **Programme edit** menu appears on the screen. See the 'Programme Edit' section to edit the stored programme.

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

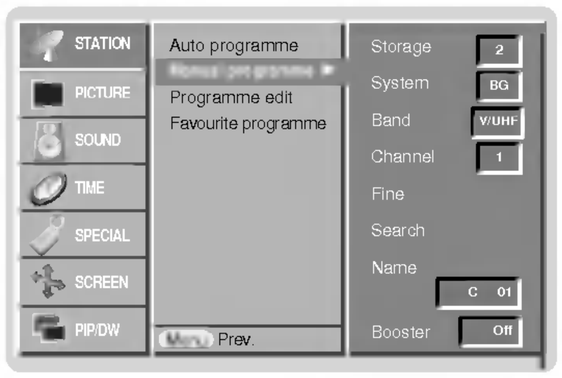
# STATION MENU

## Manual programme tuning

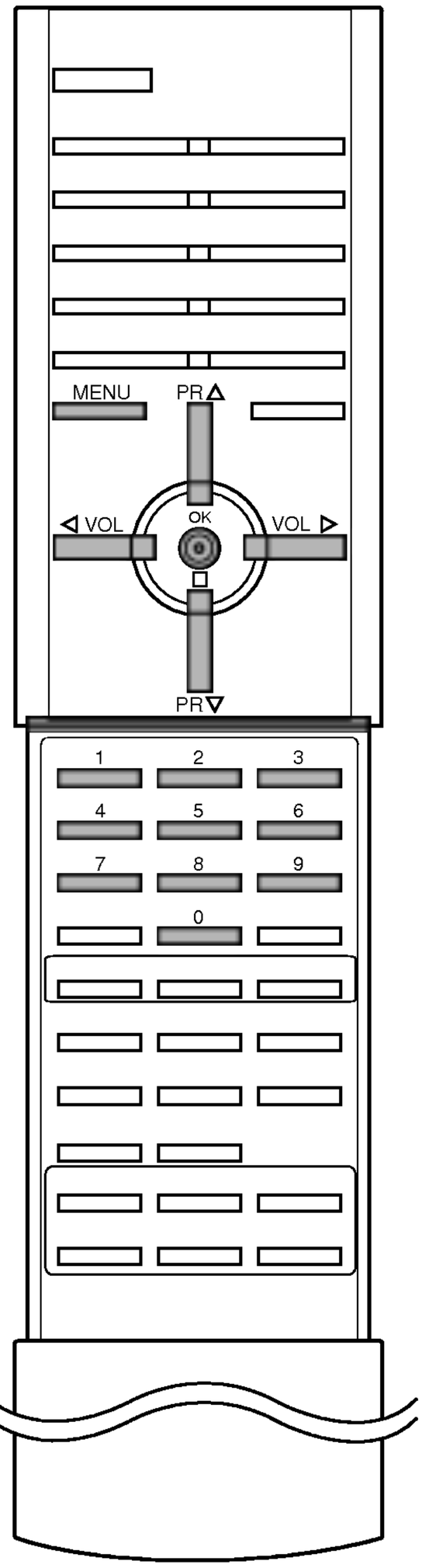
Manual programme lets you manually tune and arrange the stations in whatever order you desire. Also you can assign a station name with five characters to each programme number.



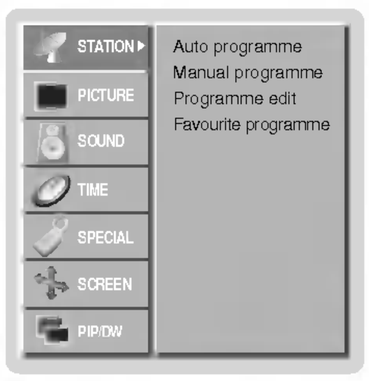

1. Press the **MENU** button and then ▲ / ▼ button to select the STATION menu.
2. Press the ► button and then ▲ / ▼ button to select **Manual programme**.




3. Press the ► button to select **Storage**. Select the beginning programme number with the ◄ / ► button or NUMBER buttons on the **Storage** menu.
4. Press the ▼ button to select **System**. Select a TV system with the ◄ / ► button;
   **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 ▼ button to select **Band**. Press the ◄ / ► button to select **V/UHF** or **Cable** as required.
6. Press the ▼ button to select **Channel**. Select the desired channel number with the ◄ / ► button or NUMBER buttons. If possible, select the channel number(VHF : 1 to 75, Cable : 2 to 44) directly with the number buttons.
7. Press the ▼ button to select **Search**. Press the ◄ / ► button to commence searching. If a station is found the search will stop.
8. If this station is the one required, press the ► button to select **Storage**. Select the desired programme number with the ◄ / ► button or NUMBER buttons.
9. Press the **OK** button to store it.
10. To store another station, repeat steps 4 to 9.
11. Repeatedly press the **MENU** button to return to normal TV viewing.

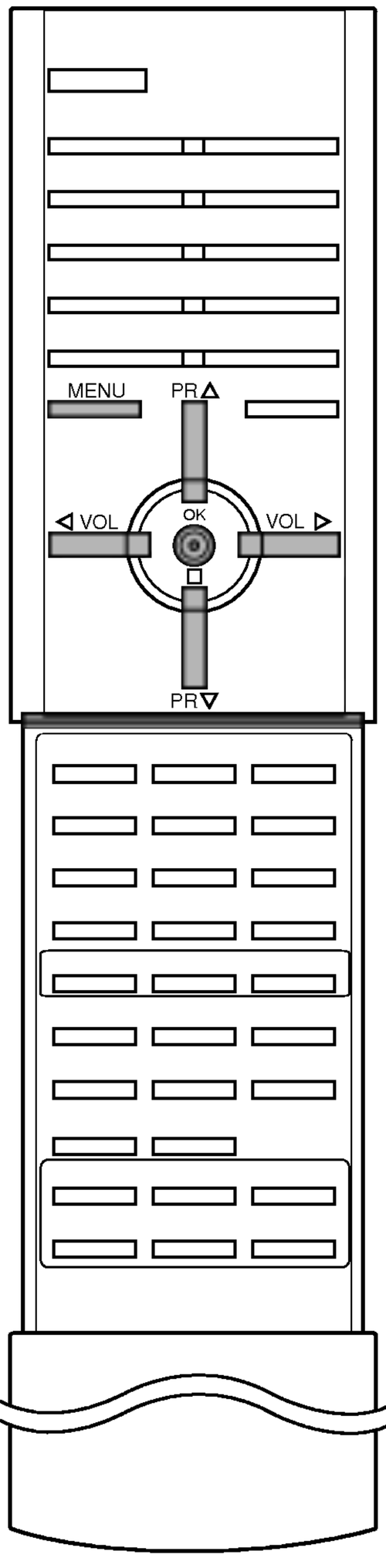


# STATION MENU




**Assigning a station name**

1. Repeat the 'Manual programme tuning' steps 1 to 2.
2. Press the ▼ button to select **Name**.
3. 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.
4. Select the next position by pressing the ► button and then take your choice of the second character, and so on.
5. Press the **OK** button.
6. 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.

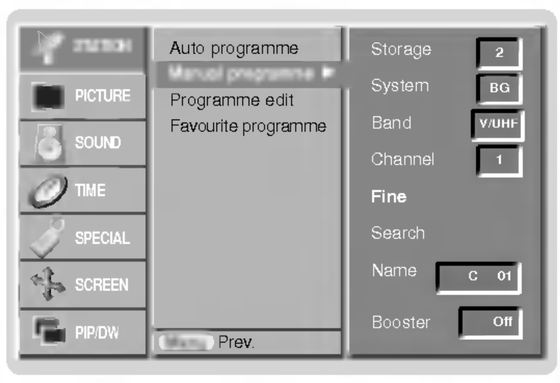
If the reception is poor at the fringe area of TV signal, select **Booster** to **On**. When the picture condition is good, do not select **Booster** to **On**.

1. Repeat the 'Manual programme tuning' steps 1 to 2.
2. Press the ▼ button to select **Booster**.
3. Press the ◄ / ► button to select **On** or **Off**.
4. Repeatedly press the **MENU** 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 2.
2. Press the ▼ button to select **Fine**.



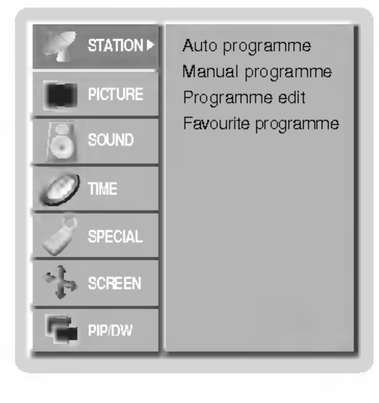

3. Press the ◄ / ► button to fine tune for the best picture and sound.
4. Press the **OK** button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.
   The finely tuned programme will be indicated by yellow number during programme selection.

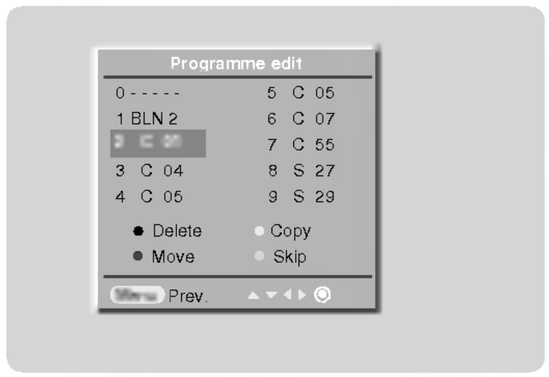
# STATION MENU

## Programme edit

This function enables you to delete or skip the stored programmes. Also you can move some stations to other programme numbers or copy 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 **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.
3. Move the programme to the desired programme number with the ▲ / ▼ or ◄ / ► button.
4. Press the **GREEN** button again to move the programme.
   All the following programmes are shifted down one position.

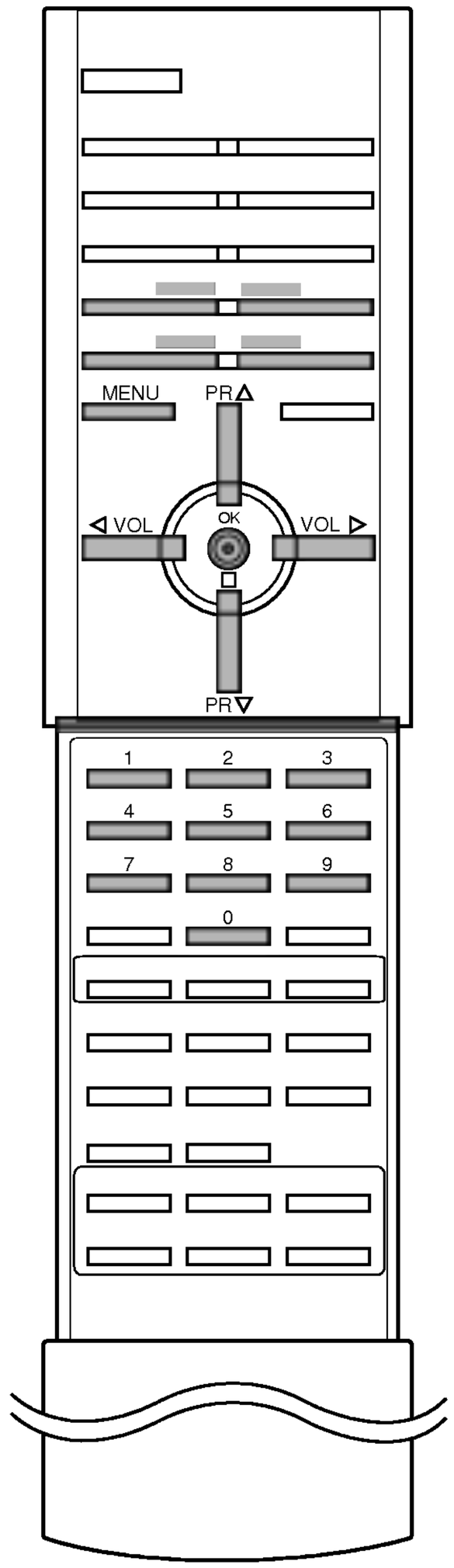
### Moving a programme

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.

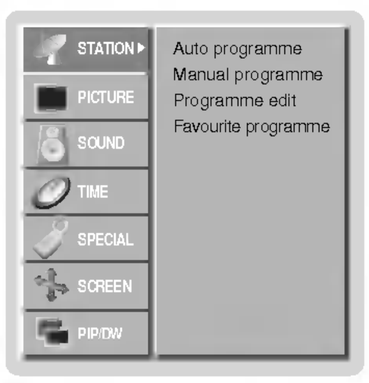
### Skipping a programme number

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.



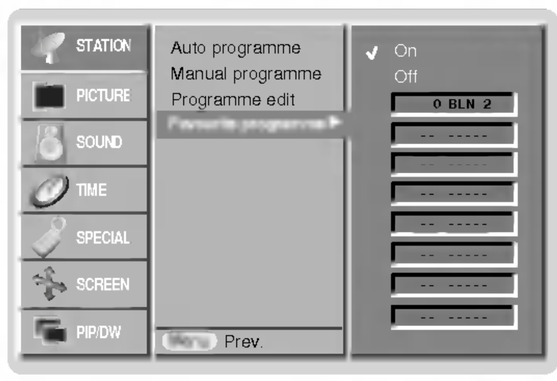
# STATION MENU




## Favourite Programme

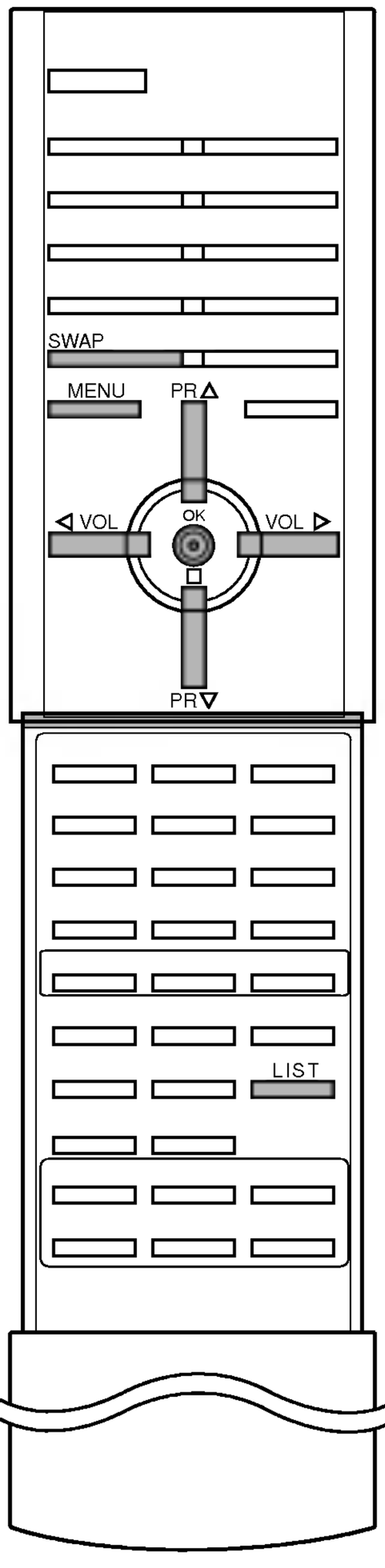
This function lets you select your favourite programmes directly.

1. Press the **MENU** button and then use ▲ / ▼ button to select the STATION menu.
2. Press the ► button and then ▲ / ▼ button to select **Favourite programme**.
3. Press the ► button to display the **Favourite programme** menu.




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

Repeatedly press the **SWAP** button to select stored favorite programmes.

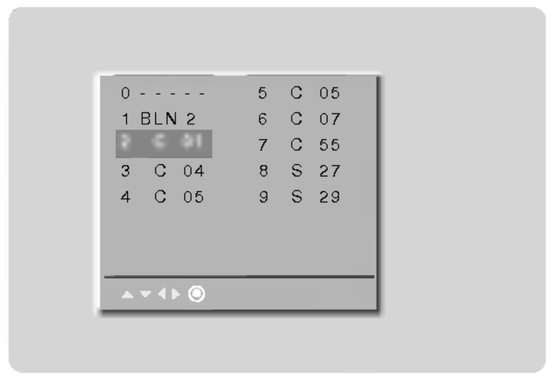



## Calling the programme table

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.




***Note :***

*a. You may find some blue highlighted programmes shown. They have been set up 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.
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.

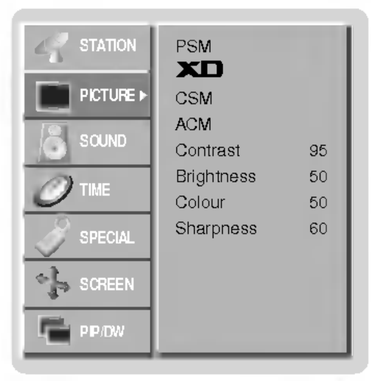
Press the **LIST** button to return to normal TV viewing.

# PICTURE MENU

## PSM (Picture Status Memory)

1. Press the **MENU** button and then ▲ / ▼ button to select the PICTURE menu.
2. Press the ► button and then ▲ / ▼ button to select **PSM**.



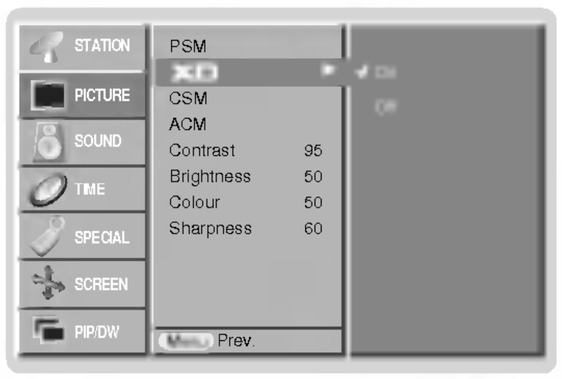

3. Press the ► button and then ▲ / ▼ button to select a picture setting on the **PSM** pull-down menu.
4. Press the **OK** or ◄ button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

To recall your preferred setting, press the **PSM** button until the desired picture (**Dynamic**, **Standard**, **Mild** or **User**) appears. The picture **Dynamic**, **Standard** and **Mild** are programmed for good picture reproduction at the factory and cannot be changed.

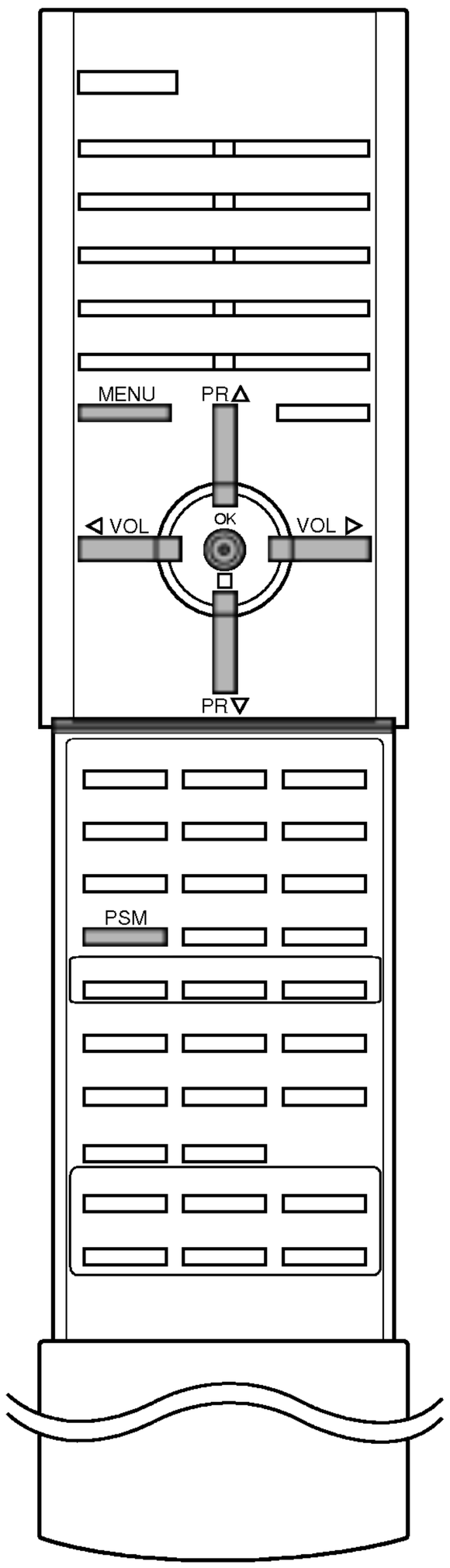
## XD (Excellent Digital)

- You can enjoy the vivid and high-definition picture with Digital Reality processor technology.
- When selecting picture options (**Dynamic**, **Standard** and **Mild**) in PICTURE menu, **XD** is automatically changed to **On**.
- It's not available to use this function in RGB[PC], HDMI[PC] mode.

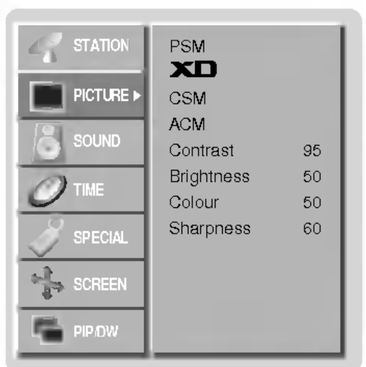
1. Press the **MENU** button and then ▲ / ▼ button to select the PICTURE menu.
2. Press the ► button and then ▲ / ▼ button to select **XD**.

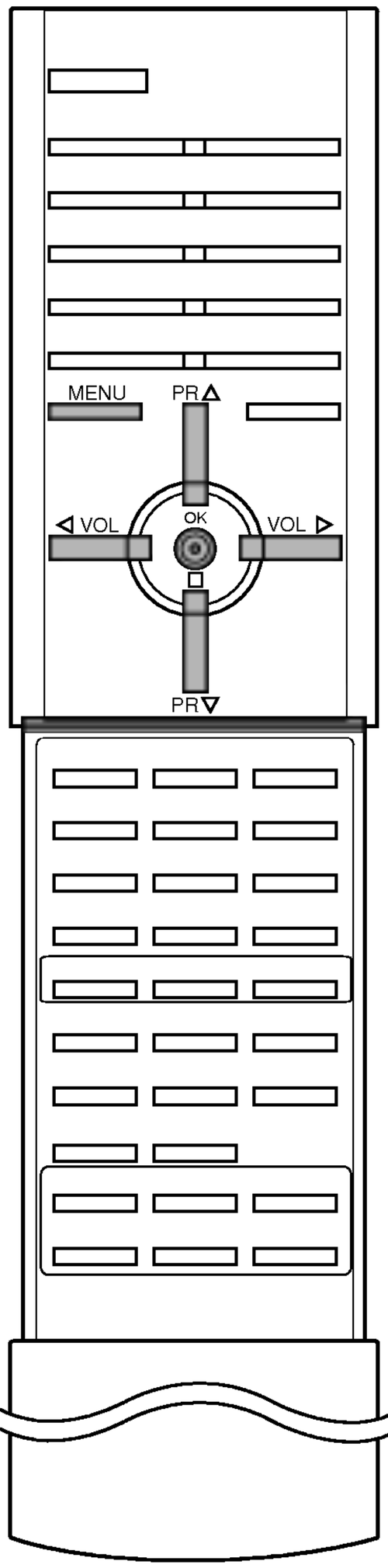



3. Press the ► button and then ▲ / ▼ button to select **On** or **Off**.
4. Press the **OK** or ◄ button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.



# PICTURE MENU

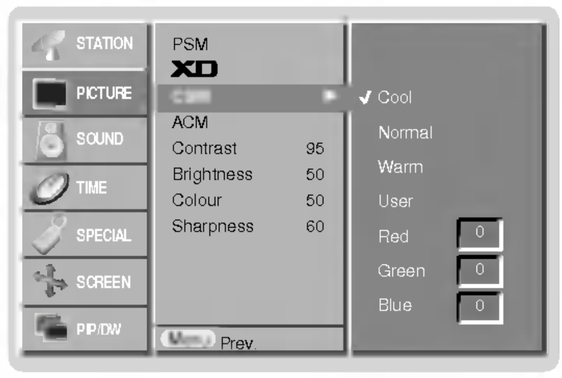



## CSM (Color Status Memory)

- When selecting picture options (**Dynamic**, **Standard** and **Mild**) in PICTURE menu, **CSM** is automatically changed to **Normal**.
- It's not available to use this function in **sRGB On** mode.

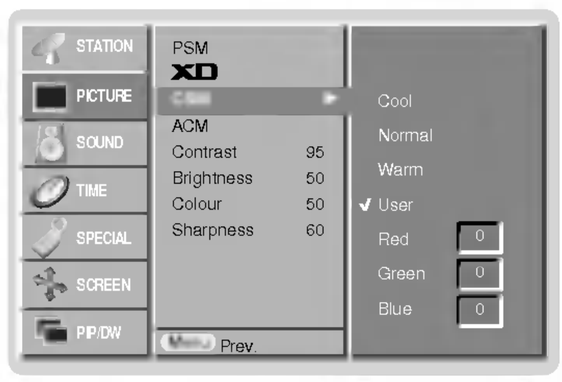
1. Press the **MENU** button and then ▲ / ▼ button to select the PICTURE menu.
2. Press the ► button and then ▲ / ▼ button to select **CSM**.




3. Press the ► button and then use ▲ / ▼ button to select the desired colour temperature.
4. Press the **OK** or ◄ button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

## Manual Colour Temperature Control (User option)

1. Press the **MENU** button and then ▲ / ▼ button to select the PICTURE menu.
2. Press the ► button and then ▲ / ▼ button to select **CSM**.

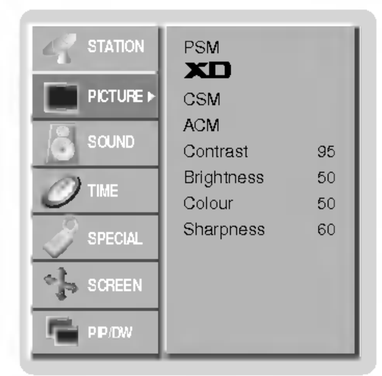



3. Press the ► button and then ▲ / ▼ button to select **User**.
4. Press the ► button and then ◄ / ► button to make appropriate adjustments.
   The adjustment range of **Red**, **Green** and **Blue** is -30~+30.
5. Press the **OK** button.
6. Repeatedly press the **MENU** button to return to normal TV viewing.

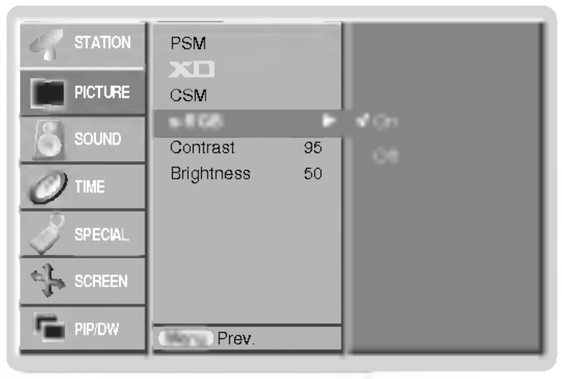
# PICTURE MENU

## sRGB (RGB[PC], HDMI[PC] mode only)

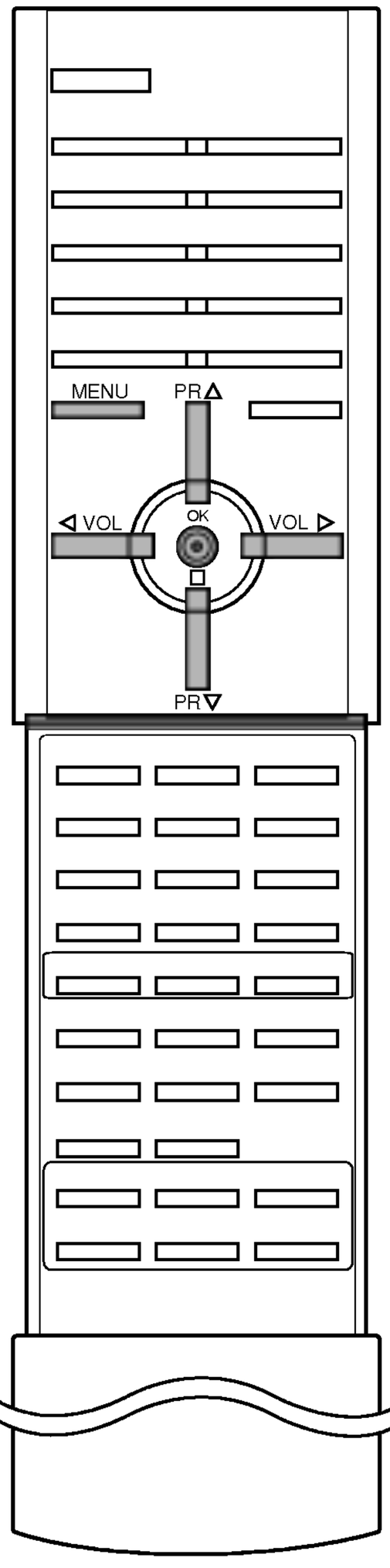
- When the set was connected to external equipment with sRGB function, It's adjusted a colour difference to display the equal image each other.




1. Press the **MENU** button and then ▲ / ▼ button to select the PICTURE menu.
2. Press the ► button and then ▲ / ▼ button to select **sRGB**.
3. Press the ► button and then ▲ / ▼ button to select **On** or **Off**.



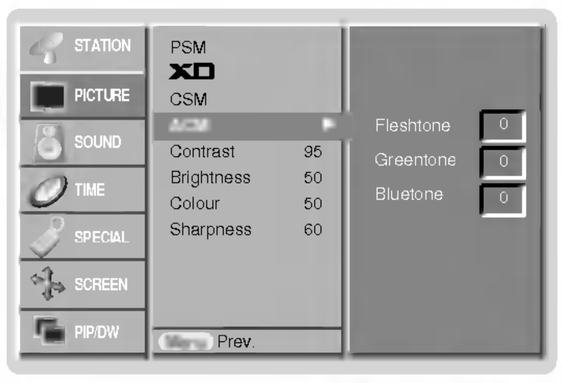

4. Press the **OK** or ◄ button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.



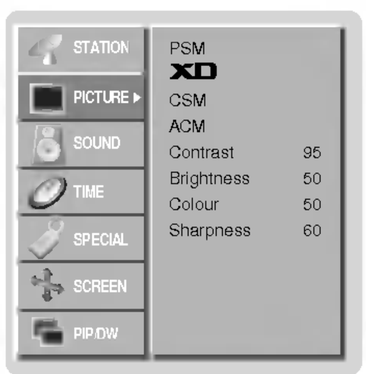

## ACM (Active Color Management)

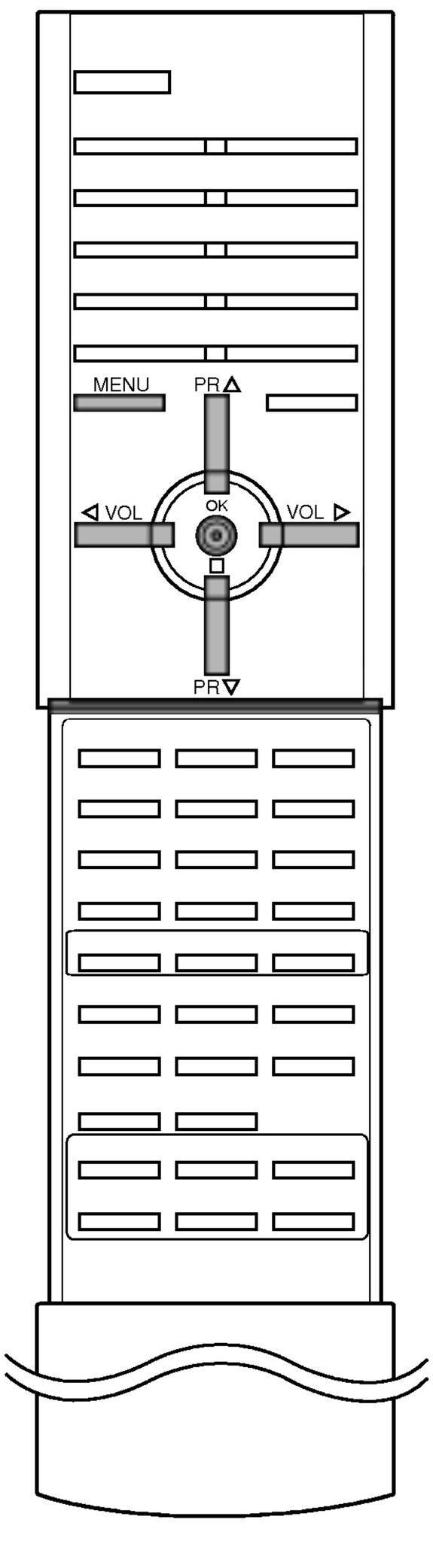
- Adjust the **ACM** to select the desired skin colour option.
- This function works in the following mode:
  TV, AV1, AV2, AV3, COMPONENT [480i, 480p, 576i, 576p, 720p, 1080i], HDMI DTV [480p, 576p, 720p,1080i].
- It's not available to use this function in **XD Off** mode.

1. Press the **MENU** button and then use ▲ / ▼ button to select the PICTURE menu.
2. Press the ► button and then use ▲ / ▼ button to select **ACM**.
3. Press the ► button and then use ◄ / ► button to make appropriate adjustments.
   The adjustment range of **ACM** is 0 ~ 3.
4. Press the **OK** button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.



# PICTURE MENU

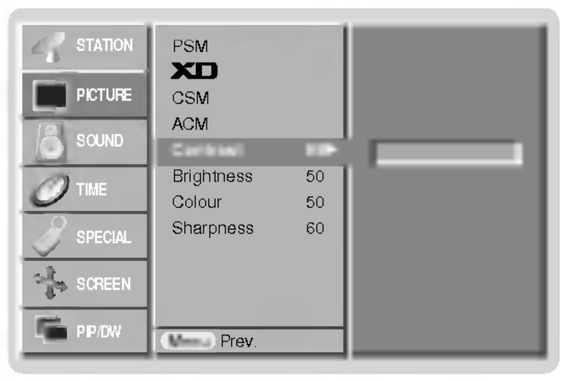



## Manual Picture Control (User option)

You can adjust picture contrast, brightness, colour, sharpness and tint (NTSC input only) to the levels you prefer.
In the broadcasting system PAL/SECAM, the picture item Tint doesn't work.

1. Press the **MENU** button and then ▲ / ▼ button to select the PICTURE menu.
2. Press the ► button and then ▲ / ▼ button to select the desired picture item.



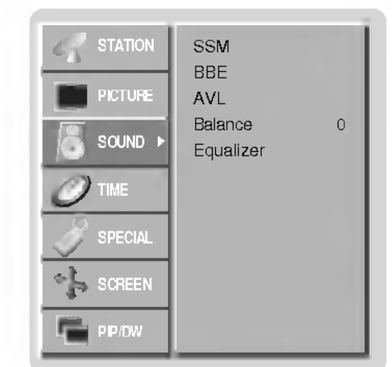

3. Press the ► button and then ◄ / ► button to make appropriate adjustments, then it will be stored for the picture User.
4. Press the **OK** button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

***Note :*** *The adjustment for PICTURE menu (contrast, brightness, colour, sharpness and tint) affect both the main and sub picture in PIP or Twin Picture mode.*

# SOUND MENU

## SSM (Sound Status Memory)

This function lets you enjoy the best sound without any special adjustment because the set automatically selects the appropriate sound option based on the program content.
When adjusting sound options equalizer manually, SSM is automatically changed to **User**.




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

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

***Note :***

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

*b. Equalizer isn't suitable to use **SRS TSXT**.*

- SRS(●) TruSurround XT is a trademark of SRS Labs, Inc.
- TruSurround XT technology is incorporated under license from SRS Labs, Inc.

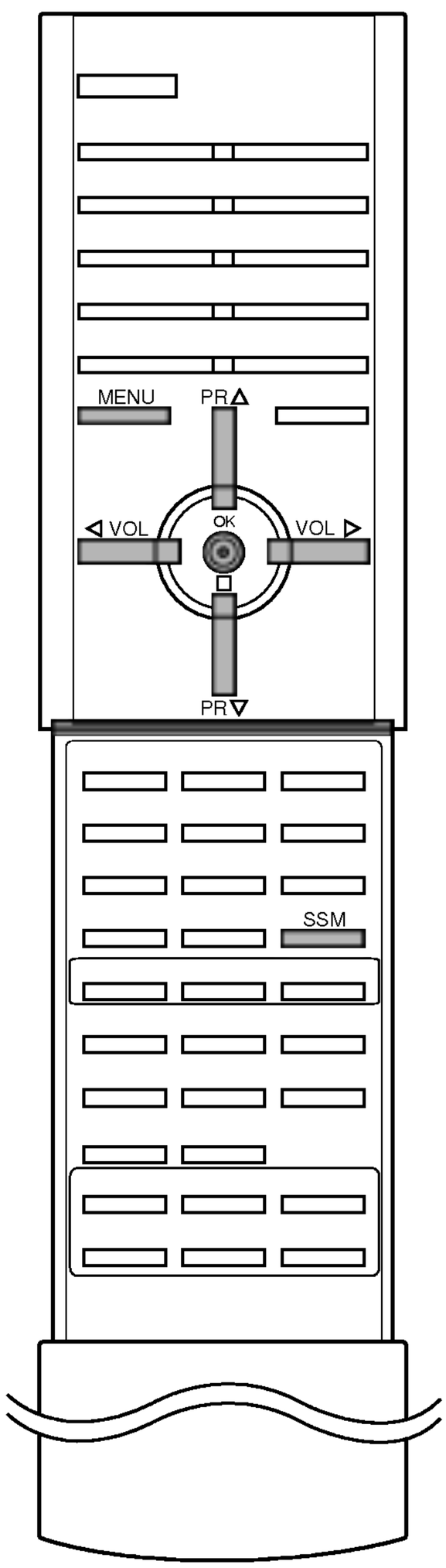
## BBE

- BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.
- It's not available to use this function in **SRS TSXT** mode.

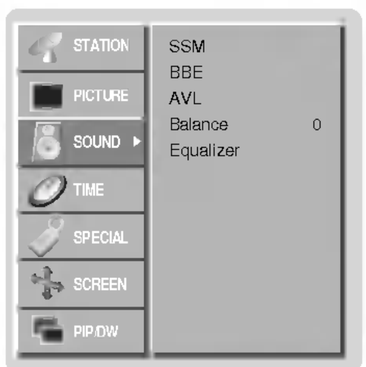
1. Press the **MENU** button and then ▲ / ▼ button to select the SOUND menu.
2. Press the ► button and then ▲ / ▼ button to select **BBE**.




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 MENU



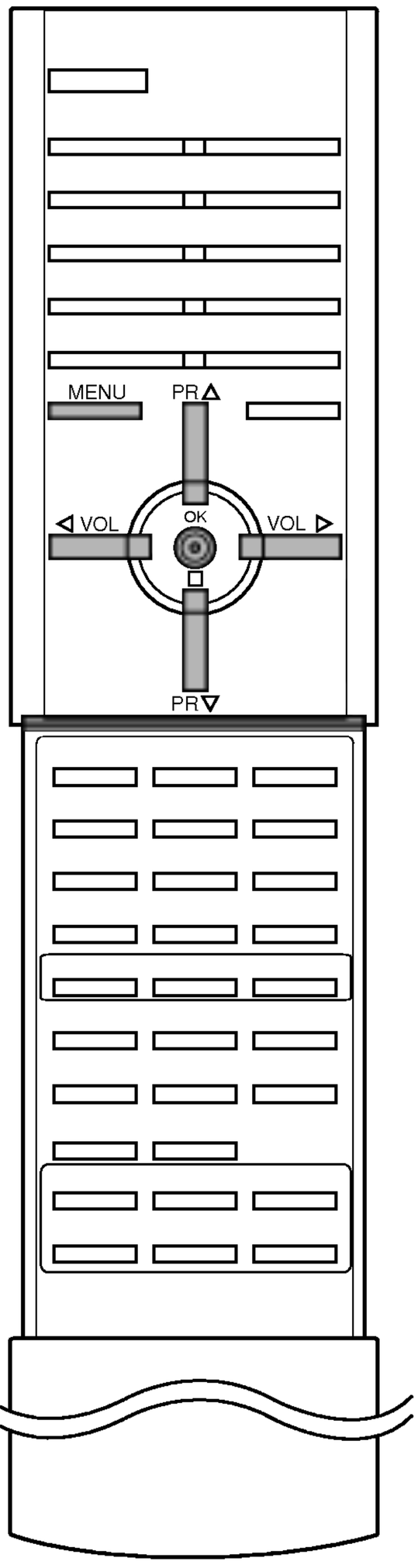

## AVL (Auto Volume Leveler)

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**.



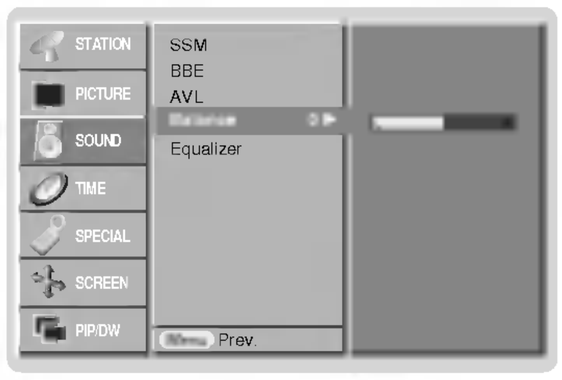

3. Press the ► button and then ▲ / ▼ button to select **On** or **Off**.
4. Press the **OK** or ◄ button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.




## Balance adjustment

You can adjust balance.

1. Press the **MENU** button and then ▲ / ▼ button to select the SOUND menu.
2. Press the ► button and then ▲ / ▼ button to select **Balance**.




3. Press the ► button.
4. Make desired adjustment with the ◄ / ► button on the Balance pull-down menu.
5. Press the **OK** button.
6. Repeatedly press the **MENU** button to return to normal TV viewing.

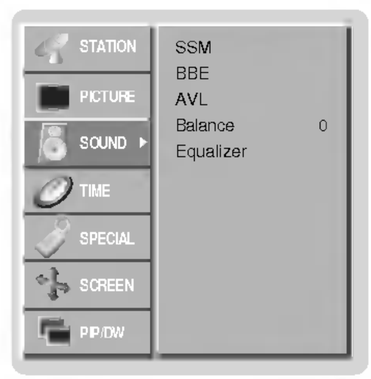
# SOUND MENU

## Equalizer (option)

1. Press the **MENU** button and then ▲ / ▼ button to select the SOUND menu.
2. Press the ► button and then ▲ / ▼ button to select **Equalizer**.
3. Press the ► button in **Equalizer** to display the **Equalizer** sub menu.




4. Select a sound band by pressing the ▲ / ▼ button.
5. Make appropriate sound level with the ◄ / ► button.
6. Press the **OK** button.
7. Repeatedly press the **MENU** button to return to normal TV viewing.




## Sound output selection

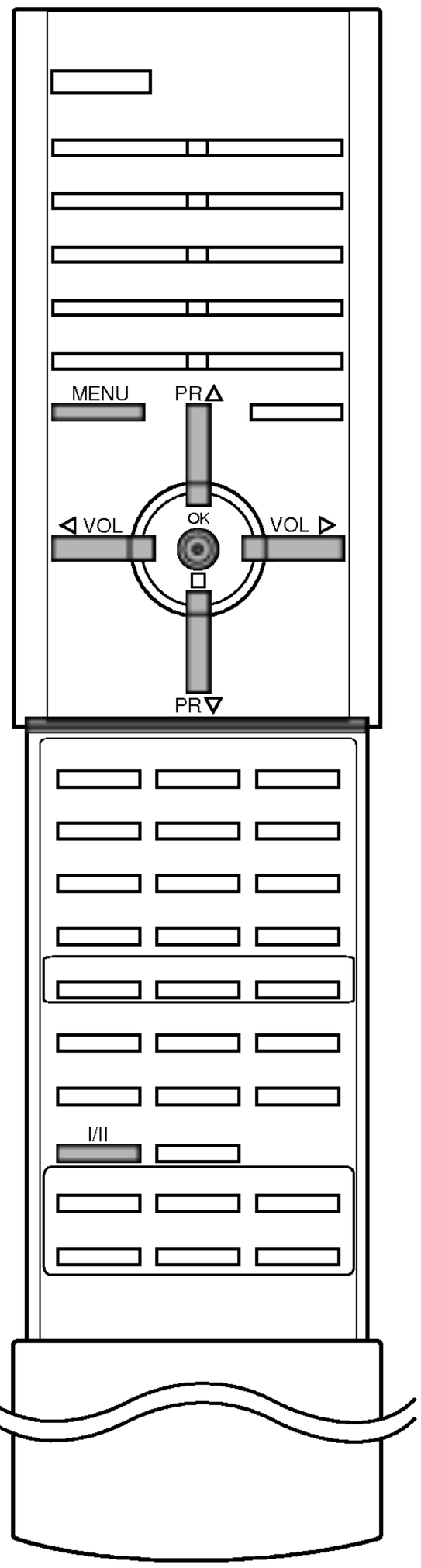
In AV mode, you can select output sound for the left and right loud-speakers.

Repeatedly press the **I/II** button to select the sound output.

**L+R :** Audio signal from audio L input is sent to the left loud speaker and audio signal from audio R input is sent to the 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.

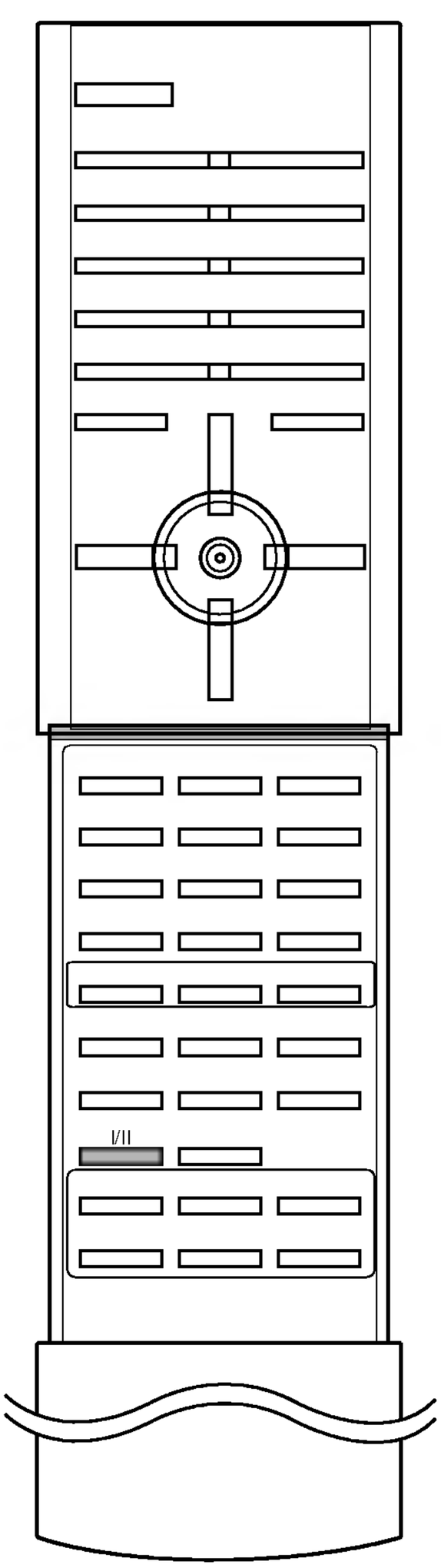


# SOUND MENU

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

## NICAM reception

If your set is equipped with the receiver for NICAM reception, the high quality NICAM (Near Instantaneous Companding Sound 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.

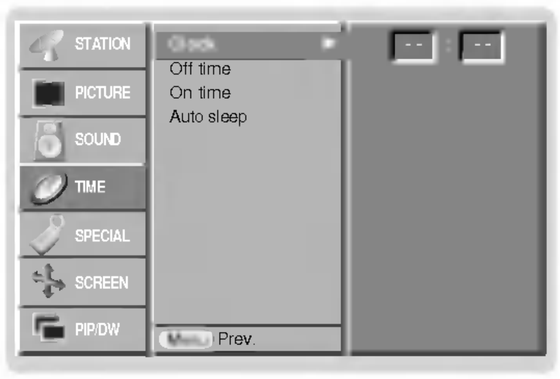
1. When NICAM mono is received, you can select **NICAM MONO** or FM MONO.
2. When NICAM stereo is received, you can select **NICAM STEREO** or FM MONO. If the stereo signal is weak, switch to FM mono.
3. When NICAM dual is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II**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

# TIME MENU

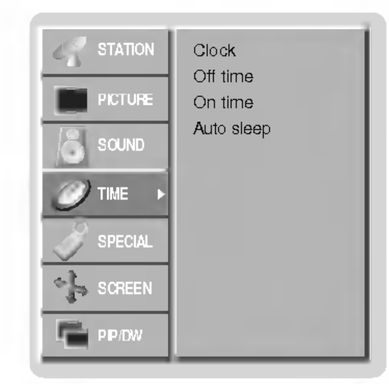
## Clock

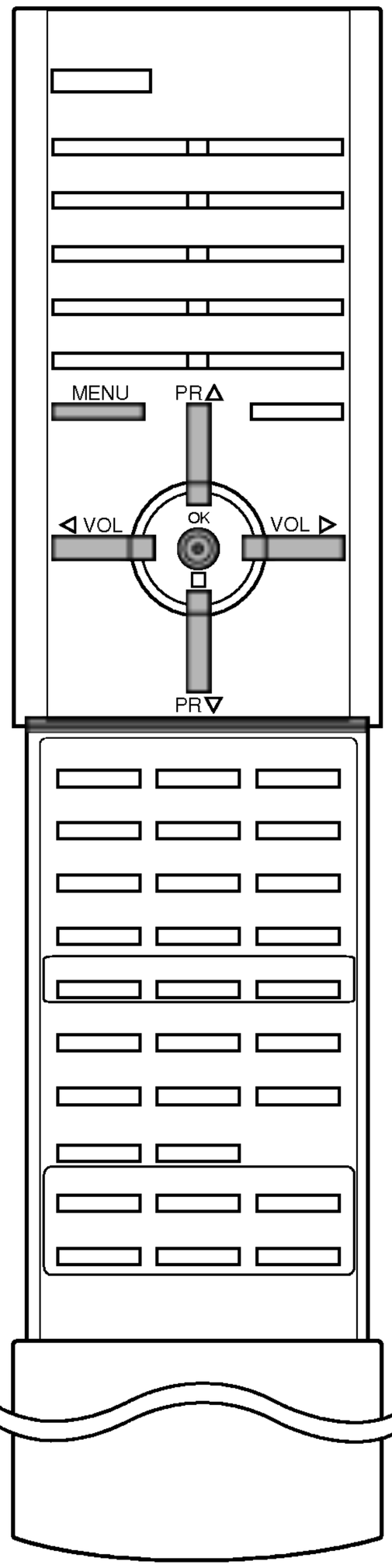
You must set the time correctly before using on/off time function.

1. Press the **MENU** button and then ▲ / ▼ button to select the TIME menu.
2. Press the ► button and then ▲ / ▼ button to select **Clock**.




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

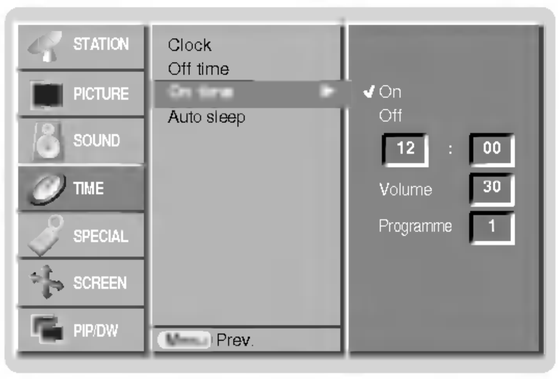



## On/Off Timer

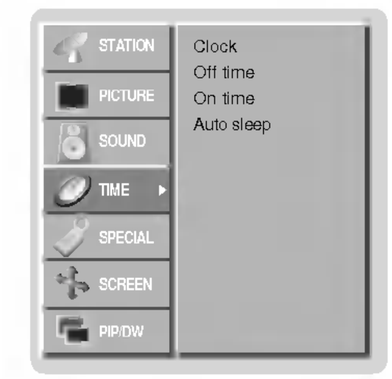
Timer function operates only if current time has been already set.
Off Timer function overrides on Timer function if they are set to the same time.
The TV must be in standby mode for the On Timer to work.

1. Press the **MENU** button and then ▲ / ▼ button to select the TIME menu.
2. Press the ► button and then use ▲ / ▼ button to select **Off Time** or **On Time**.




3. Press the ► button and then use ▲ / ▼ button to select **On**.
4. Press the ► button and then use ▲ / ▼ button to adjust the hour.
5. Press the ► button and then use ▲ / ▼ button to adjust the minute.
6. ***Only On Time function*** ; Press the ► button and then use ▲ / ▼ button to adjust volume level and programme number.
7. Press the **OK** button.
8. Repeatedly press the **MENU** button to return to normal TV viewing.

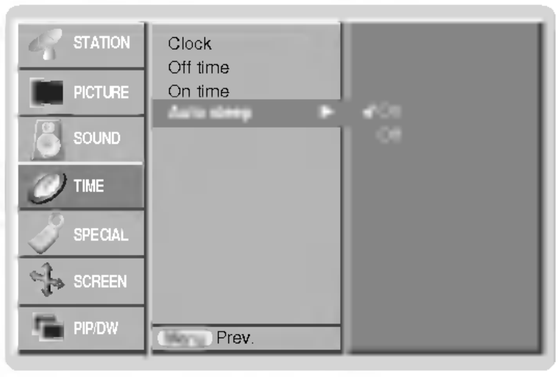
# TIME MENU



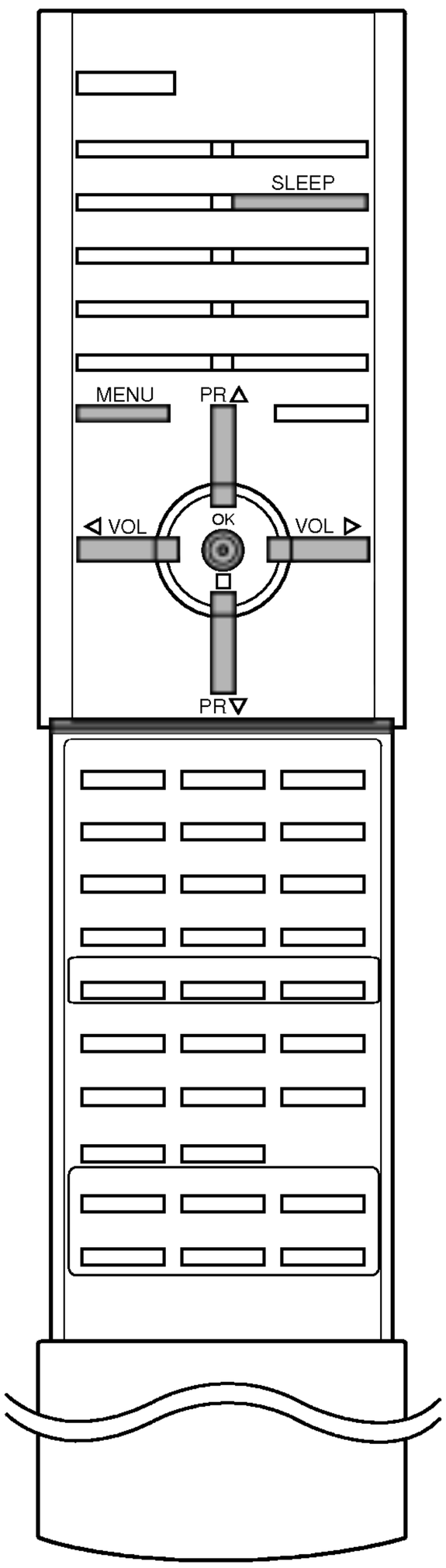

## Auto sleep

If there is no input signal, the TV turn off automatically after 10 minutes.

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



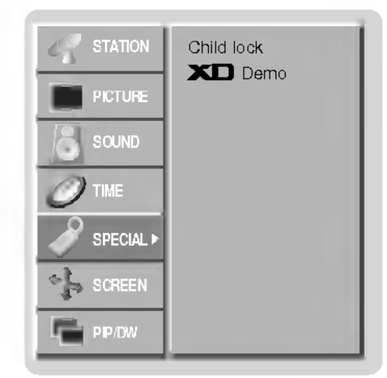

## Sleep Timer

Sleep timer turns the set off at the preset time.
Press the **SLEEP** button to select the number of minutes. The display zZ **--- Min** will appear on the screen, followed by **10**, **20**, **30**, **60**, **90**, **120**, **180** and **240** minutes. The timer begins to count down from the number of minutes selected.

***Note :***
*a. To check the remaining sleep time, press the **SLEEP** button once.*
*b. To cancel the sleep time, repeatedly press the **SLEEP** button until the display zZ **--- Min** appears.*
*c. If you turn the set off after setting the sleep timer, the setting will be erased.*

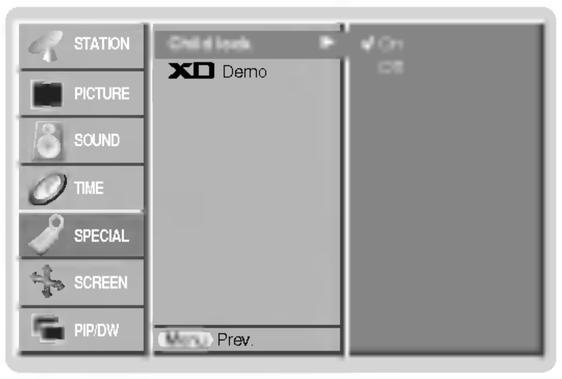
# SPECIAL MENU

## Child Lock




The TV can be set so that the remote control handset is needed to control it. This feature can be used to prevent 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**.



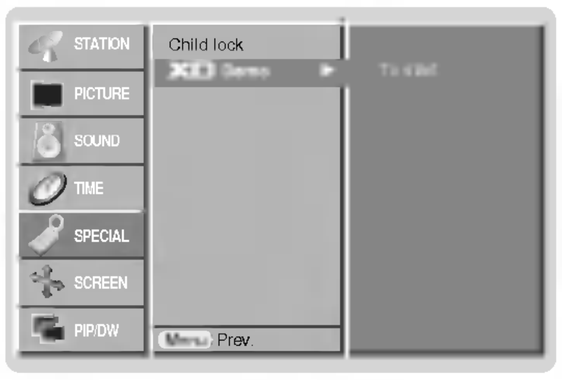

3. Press the ► button and then ▲ / ▼ button to select **On** or **Off**.
4. Press the **OK** or ◄ button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

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

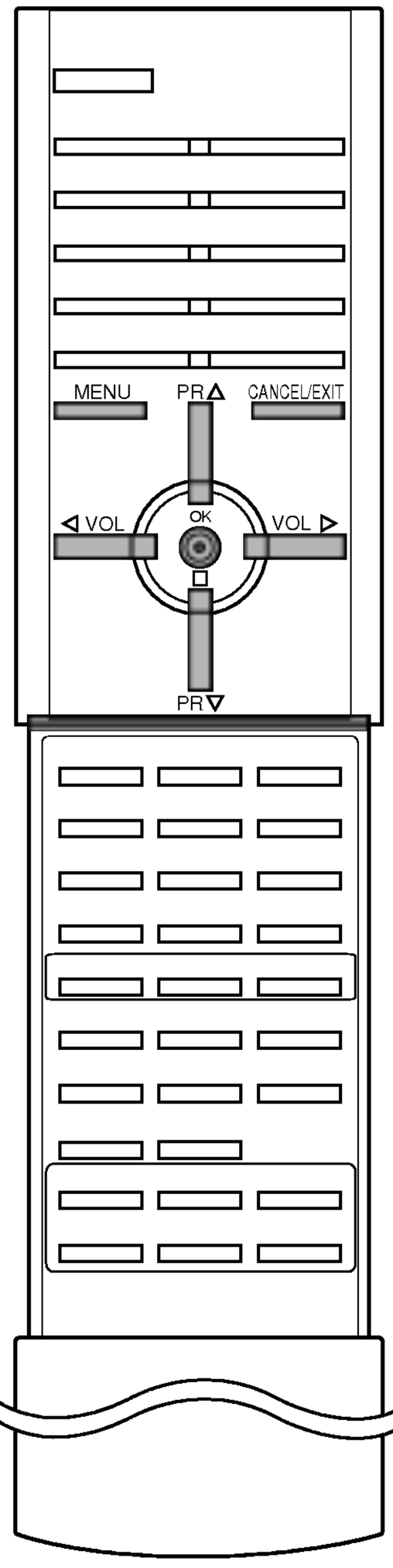
## XD Demo

Use it to see the difference between XD demo on and XD Demo off. It's not available to use this function in RGB[PC], HDMI[PC] mode.

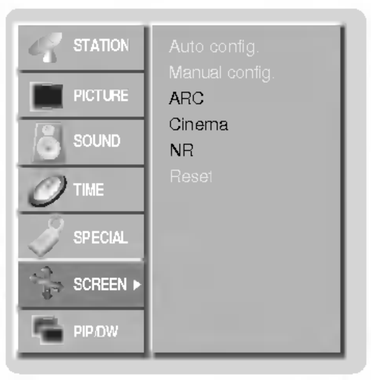
1. Press the **MENU** button and then ▲ / ▼ button to select the SPECIAL menu.
2. Press the ► button and then ▲ / ▼ button to select **XD Demo**.




3. Press the ► button to begin **XD Demo**.
4. To stop **XD Demo**, press the **CANCEL/EXIT** button.



# SCREEN MENU




## Auto Configuration (RGB [PC] mode only)

Automatically adjusts picture position and minimizes image shaking.

1. Press the **MENU** button and then use ▲ / ▼ button to select the SCREEN menu.
2. Press the ► button and then use ▲ / ▼ button to select **Auto config.**.

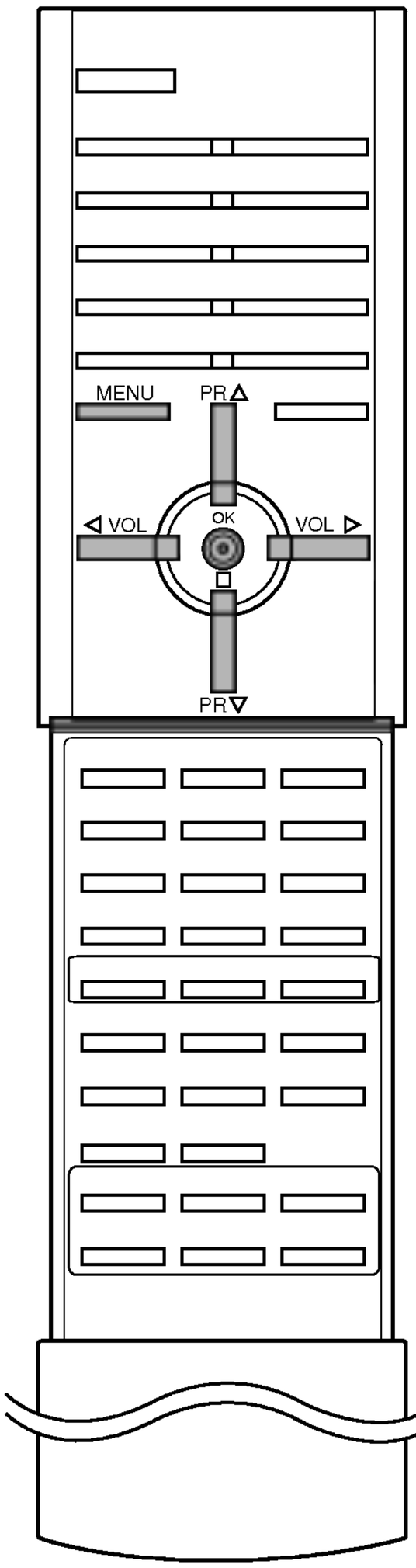



3. Press the ► button to start **Auto config.**.
   When **Auto config.** has finished, **Ok** will be shown on screen.
   If the position of the image is still not correct, try Auto adjustment again.
4. If picture needs to be adjusted more after Auto adjustment in RGB (PC), you can adjust the **Manual config.**.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

***Note :***

*a. Although the image is still not correct, your set is functioning properly but needs further adjustment.*

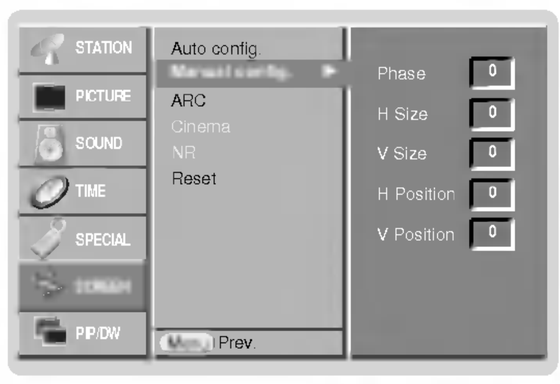
*b. The **Auto config.** functions don't need to be run for HDMI mode.*




## Manual Configuration (RGB [PC] mode only)

If the picture isn't clear after auto adjustment and especially that characters are still trembling, adjust the picture phase manually.
To correct the screen size, adjust **H Size** / **V Size**.

1. Press the **MENU** button and then use ▲ / ▼ button to select the SCREEN menu.
2. Press the ► button and then ▲ / ▼ button to select **Manual config.**.

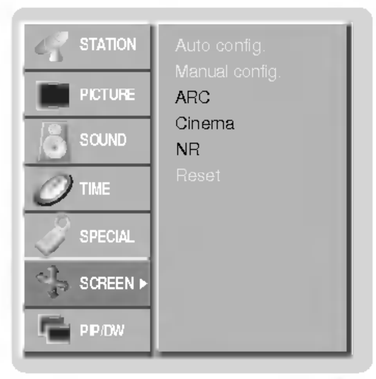



3. Press the ► button and then ▲ / ▼ button to select **Phase**, **H Size**, **V Size**, **H Position** or **V Position**.
4. Press the ◄ / ► button to make appropriate adjustments.
5. Repeatedly press the **MENU** button to return to normal TV viewing.

***Note :*** *It's not available to use H-Position, V-Position function in COMPONENT 480i/576i mode.*

# SCREEN MENU

## Setting Picture Format




You can watch the screen in various picture formats ; **Spectacle**, **Full** (option), **Original**, **4:3**, **16:9** (Wide), **14:9** and **Zoom**.

1. Press the **MENU** button and then use ▲ / ▼ button to select the SCREEN menu.
2. Press the ► button and then use ▲ / ▼ button to select **ARC**.




3. Press the ► button and then use ▲ / ▼ button to select **Spectacle**, **Full** (option), **Original**, **4:3**, **16:9**, **14:9** or **Zoom**.

**Spectacle**
When your TV receives the wide screen signal, following selection will lead you to adjust the picture horizontally, in a linear proportion, to fill the entire screen.

**Full** (option)
When your TV receives the wide screen signal, following selection will lead you to adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully.

**Original**
When your TV receives the wide screen signal, it will be automatically changed to the picture format to be sent. (Not available in all countries)

**4:3**
Following selection will lead you to view a picture with an original 4:3 aspect ratio, with black bars appearing at both the left and right sides.

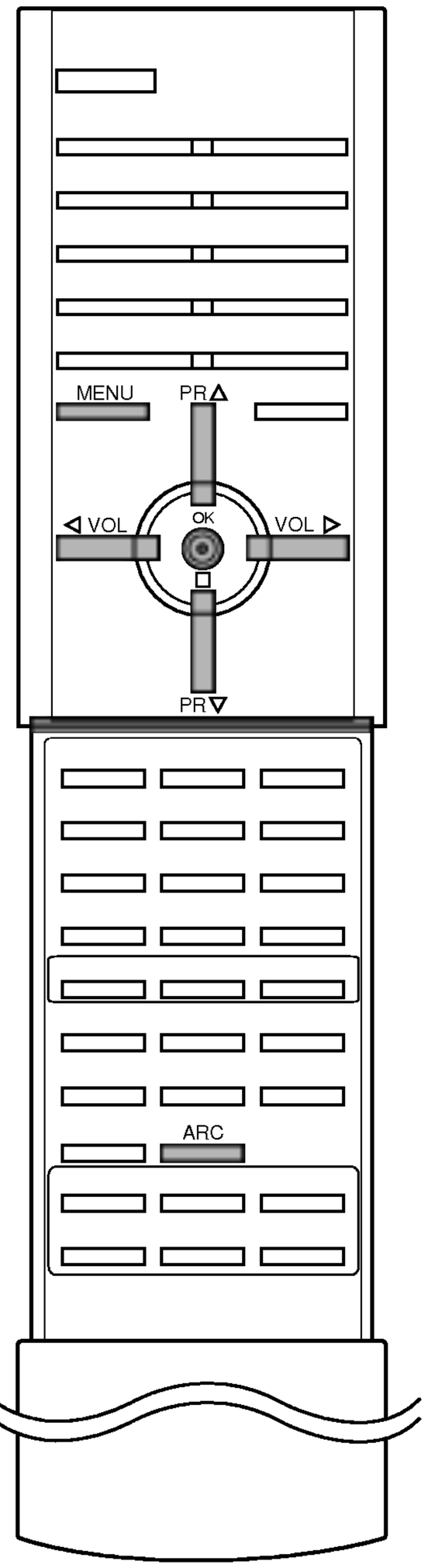
**16:9** (Wide)
Following selection will lead you to adjust the picture horizontally, in a linear proportion, to fill the entire screen (useful for viewing 4:3 formatted DVDs).

**14:9**
You can enjoy the picture format of 14:9 or general TV programme through the 14:9 mode. The screen 14:9 is viewed just like that the screen 4:3 is magnified to the left / right.

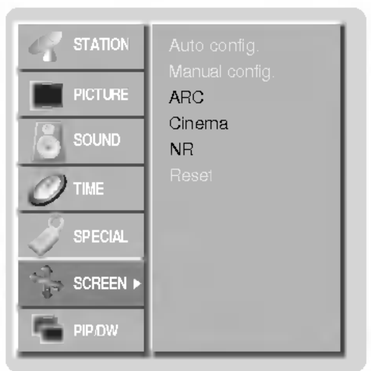
**Zoom**
Following selection will lead you to view the picture without any alternation, while filling the entire screen. However, the top and bottom portions of the picture will be cropped.

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

***Note :*** *You can only select* ***4:3*** *and* ***16:9*** *(Wide) in RGB and HDMI.*



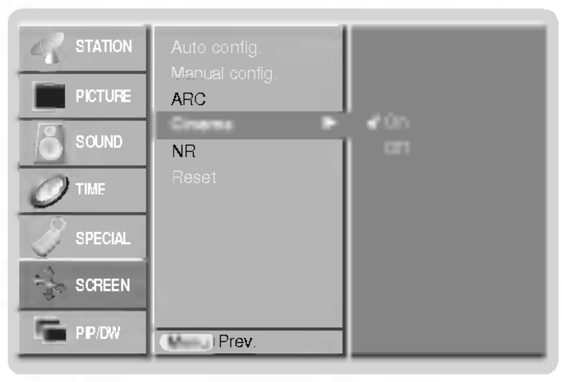
# SCREEN MENU



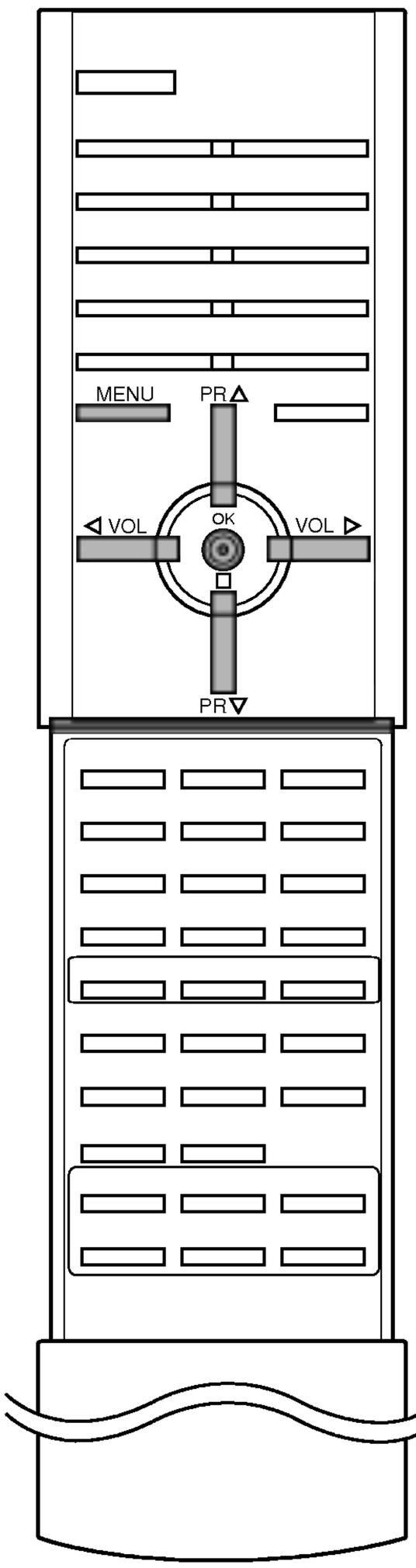

## Cinema

When you watch the movie, this function adjusts the set to the best picture appearance.
This function works in the following mode : TV, AV1, AV2, AV3 or COMPONENT 480i/576i.

1. Press the **MENU** button and then ▲ / ▼ button to select the SCREEN menu.
2. Press the ► button and then ▲ / ▼ button to select **Cinema**.

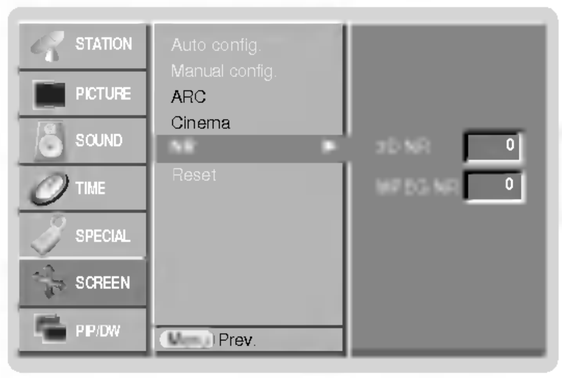



3. Press the ► button and then ▲ / ▼ button to select **On** or **Off**.
4. Press the **OK** or ◄ button.
5. Repeatedly press the **MENU** button to return to normal TV viewing.




## NR (Noise Reduction)

1. Press the **MENU** button and then ▲ / ▼ button to select the SCREEN menu.
2. Press the ► button and then ▲ / ▼ button to select **NR**.



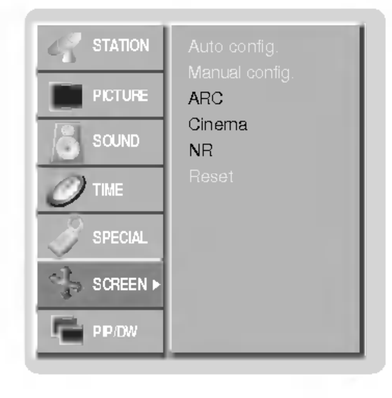

3. Press the ► button and then use ▲ / ▼ button to select **3D NR** or **MPEG NR**.
4. Press the ◄ / ► button to make appropriate adjustments.
   The adjustment range of **3D NR** is 0 ~ 2.
   The adjustment range of **MPEG NR** is 0 ~ 15.
5. Press the **OK** button.
6. Repeatedly press the **MENU** button to return to normal TV viewing.

***Note :*** *It's available to use 3D NR function in TV, AV1, AV2, AV3 or COMPONENT (480i/576i) mode.*

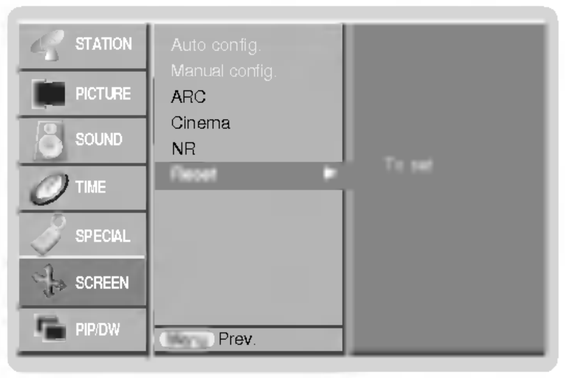
# SCREEN MENU

## Initializing (Reset to original factory value)

This function operates in current mode.
To initialize the adjusted value.

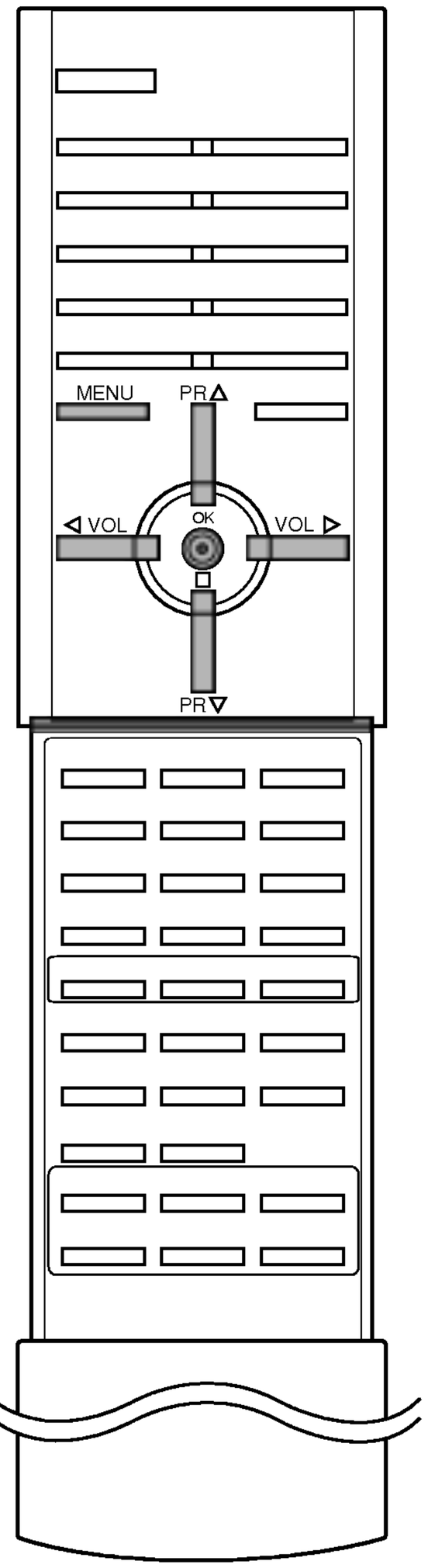



1. Press the **MENU** button and then ▲ / ▼ button to select the SCREEN menu.
2. Press the ▶ button and then ▲ / ▼ button to select **Reset**.

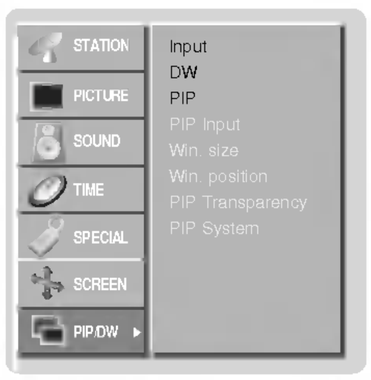


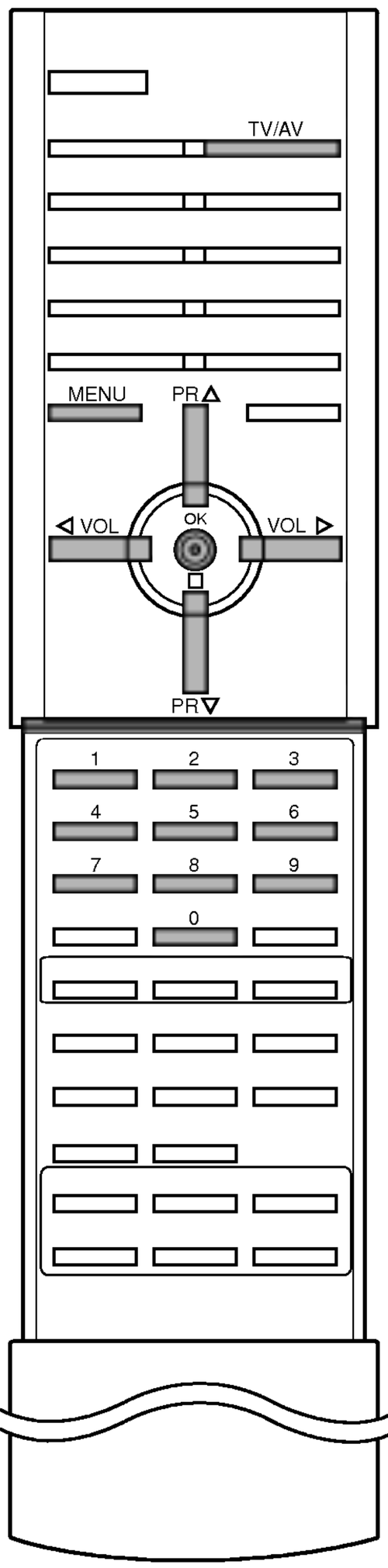

3. Press the ▶ button.

   You can initialize Position, PIP size, PIP position, PIP Transparency, Clock, Phase, H-POS, V-POS and sub picture size of twin picture.



# PIP/DW MENU



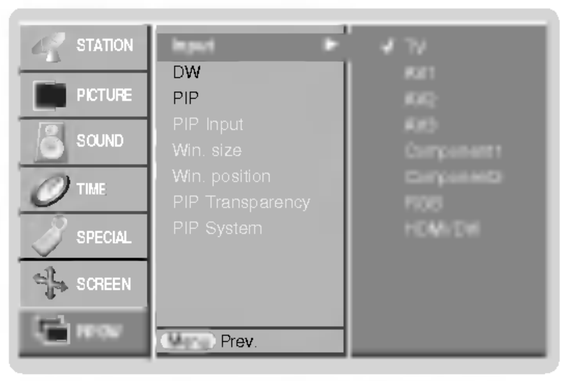




## Main Picture Source Selection

Inputs can be set for TV, AV1, AV2, AV3, Component1, Component2 or RGB, HDMI 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 PIP/DW menu.
2. Press the ► button and then ▲ / ▼ button to select **Input**.
3. Press the ► button and then ▲ / ▼ button to select **TV**, **AV1**, **AV2**, **AV3**, **Component1**, **Component2** or **RGB**, **HDMI/DVI**.




AV1 : VCR connected to the **AV1 INPUT** sockets of the set
AV2 : VCR connected to the **AV2 INPUT** sockets of the set
AV3 : VCR connected to the **AV3 INPUT** sockets of the set
Component1/2 : DVD connected to the **DTV/DVD INPUT** sockets on the back of set
RGB : PC connected to the **RGB INPUT** sockets on the back of set
HDMI/DVI : DTV/DVD INPUT connected to the **HDMI/DVI INPUT** sockets on the back of set

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

Alternatively you can select the TV, AV, Component or RGB, HDMI mode by pressing the **TV/AV** button.

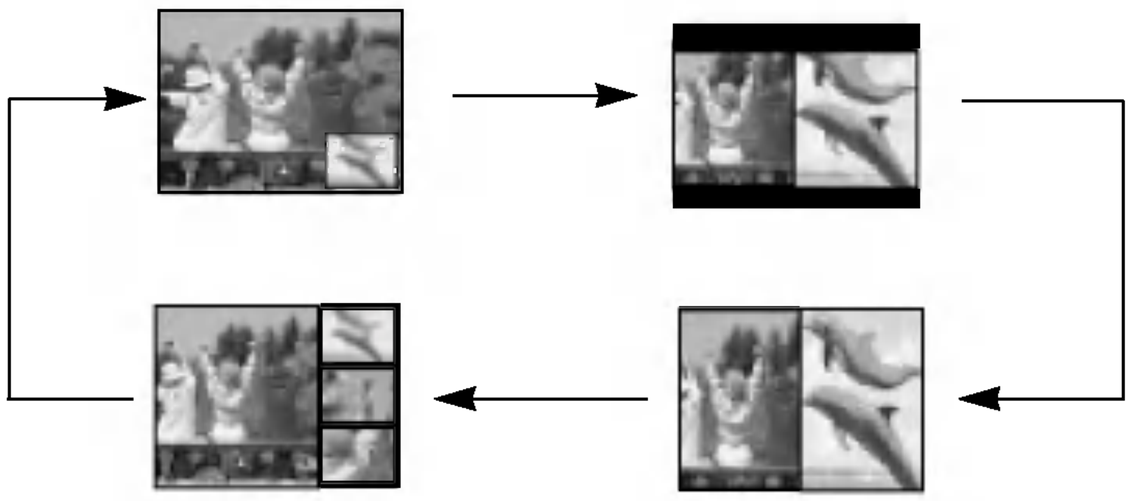
In AV, Component or RGB, HDMI mode, to return to TV mode, press the ▲ / ▼ or NUMBER buttons.

# Picture In Picture (PIP) Function

**Option :**
PIP (Picture In Picture) displays a picture within a picture.

## On and off

Press the **PIP** button to switch on the sub picture.
Press **CANCEL/EXIT** button to switch it off.
Each press of **PIP** button button changes the screen display as shown below.



***Note :*** *When the sub picture size is 1/2 of the main picture, the picture quality might get poor.*

## 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** → **Component1** → **Component2** → **RGB** → **HDMI/DVI**

***Note :***
a. *When the PIP function is switched on, you can also adjust it in the PIP/DW menu.*
b. *In some models, when the sub picture quality get poor in AV modes for sub picture, select Auto, PAL, SECAM or NTSC in PIP System menu.*

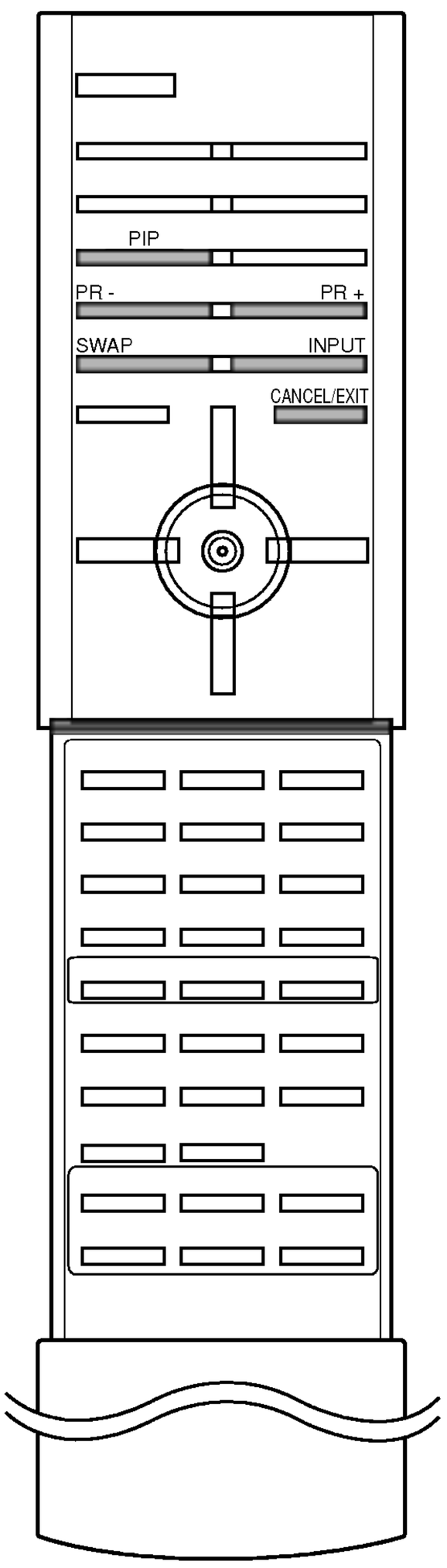
## Swapping between main and sub pictures

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

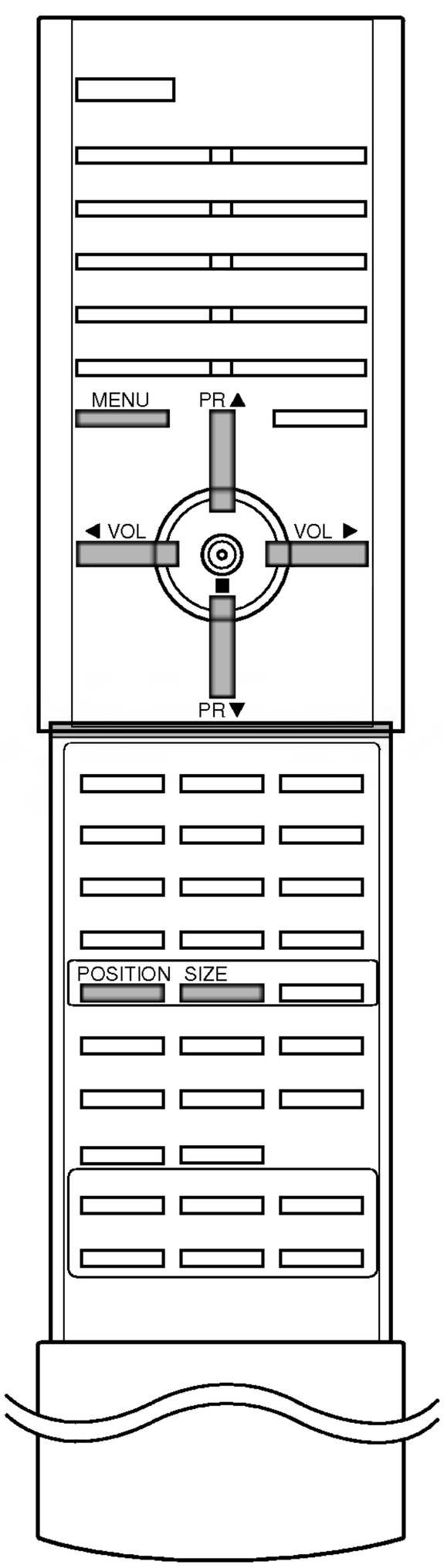
***Note :*** *When the main picture is TV or AV modes, the swapping is available.*

## Programme selection for sub picture

The sub picture programme selection is available when the sub picture is TV mode. Press the **PR +/-** buttons to select a programme for the sub picture.



# Picture In Picture (PIP) Function




## Sub picture size

Press the **SIZE** button and then ◄ / ► button to adjust the sub picture picture size.
With **SIZE** button in DW1, DW2 modes, main and sub picture is adjusted simultaneously. With **SIZE** button in PIP mode, sub picture is adjusted.

## Sub picture position change

Press the **POSITION** button.
Repeatedly press the ▲ / ▼ or ◄ / ► button until desired position is achieved. The sub picture moves up/down or left/right.

## Adjusting PIP Transparency (PIP mode only)

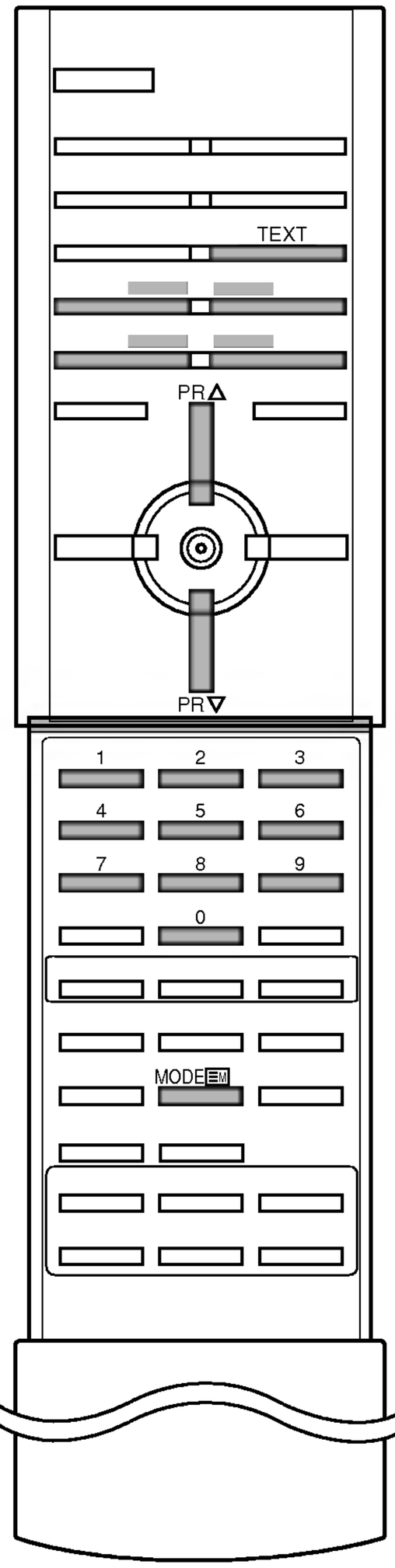
1. Press the **MENU** button and then ▲ / ▼ button to select the PIP/DW menu.
2. Press the ► button and then ▲ / ▼ button to select **PIP Transparency**.
3. Press the ► button and then ◄ / ► button to adjust PIP transparency.
   The adjustment range of **PIP Transparency** is 0 ~ 10.
4. Repeatedly press the **MENU** button to return to normal TV viewing.

# 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.
If TV and text picture are displayed half and half of the screen, press the **TEXT** button again to display text picture fully.
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** 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.

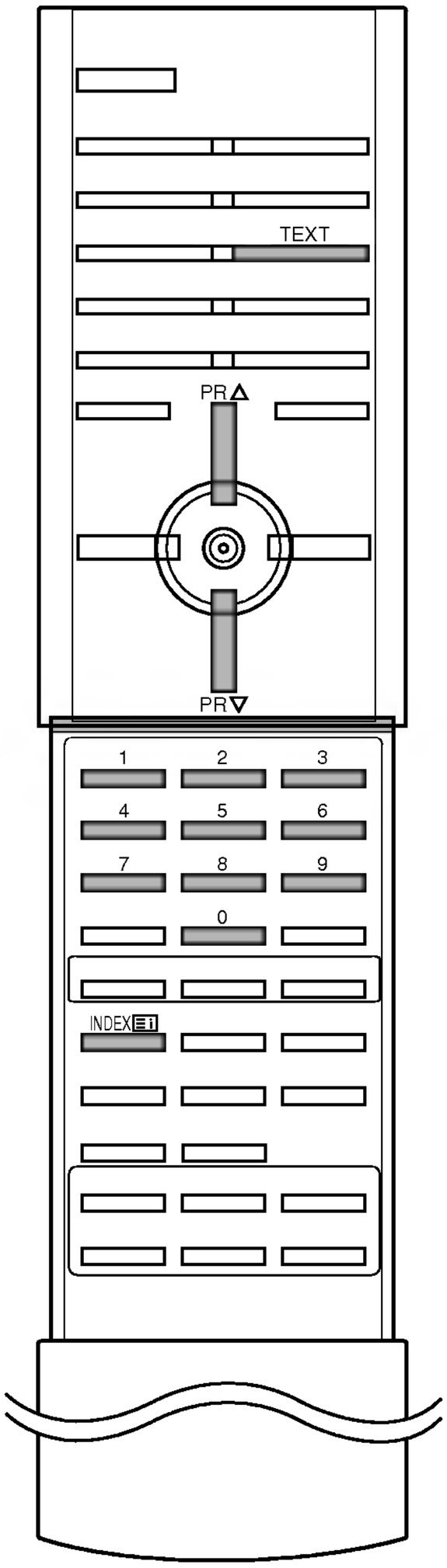
Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control handset.

1. Press a coloured button.
2. Using the NUMBER buttons, select the page you wish to programme.
3. Press the **OK** button. The selected page is stored as the selected page number, blinking once to confirm this. 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 ▼ 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.

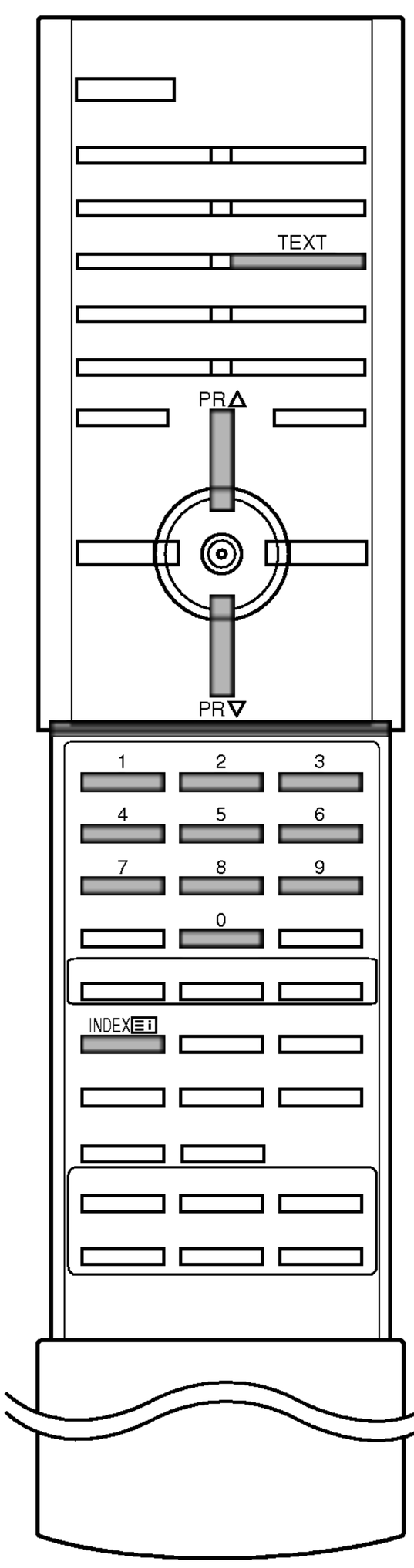
**SIZE**
Selects double height text.
Press this button to enlarge the top half of the page.
Press this button again to enlarge the bottom half of the page.
Press this button again to return to the normal display.

**UPDATE**
Displays the TV picture on the screen while waiting for the new teletext page. The display (TX) will appear at the top left hand corner of the screen. When the updated page is available then display (TX) will change to the page number.
Press this button to view the updated teletext page.

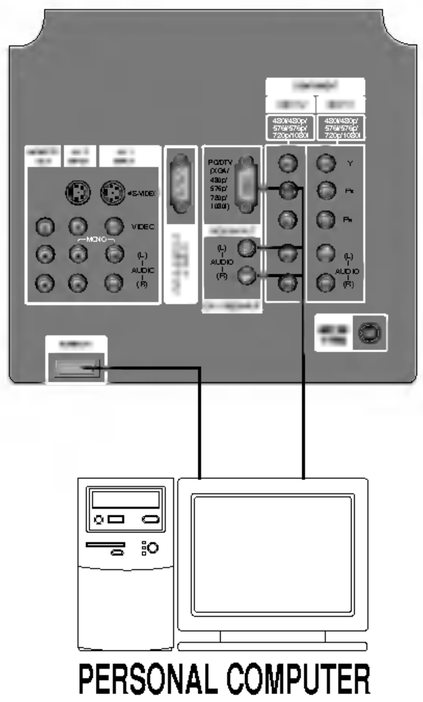
**HOLD**
Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the 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**
This button has two functions:
a) 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.
b) In 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 this button again to exit this function.



# Connection of PC




## PC in socket

1. Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the PC input socket of the set.
2. Connect the audio cable from the PC to the **RGB INPUT AUDIO** sockets on the back of the set.
3. Press the **TV/AV** or **MULTIMEDIA** button to select **RGB** or **HDMI/DVI**.
4. Switch on the PC, and the PC screen appears on the set. The set can be operated as the PC monitor.

***Note :***

*a. Connect PC to the PC input sockets of the set after changing the resolution of PC.*

*b. If you want to watch the PC monitor only, switch off the set with the **POWER** button on the remote control handset. (If you switch off the set with the **ON/OFF** button on the set, the screen of the PC isn't displayed.)*

## Displayable Monitor Specification

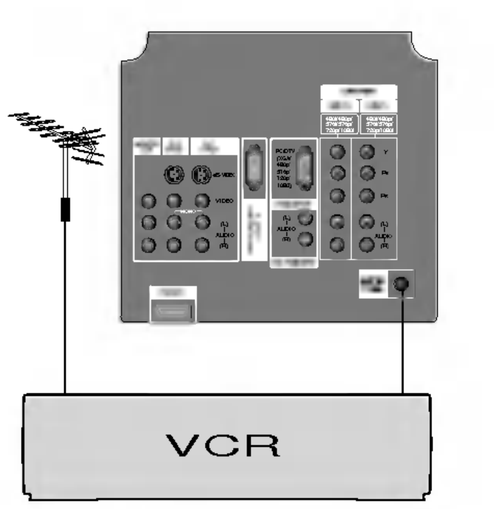
| MODE | Resolution | Horizontal Frequency (KHz) | Vertical Frequency (Hz) |
|---|---|---|---|
| EGA | 640X350 | 37.9 | 85 |
| VGA | 640X480 | 31.5 | 60 |
| | | 37.9 | 72 |
| | | 37.5 | 75 |
| | | 43.3 | 85 |
| SVGA | 800X600 | 35.1 | 56 |
| | | 37.9 | 60 |
| | | 48.1 | 72 |
| | | 46.9 | 75 |
| | | 53.7 | 85 |
| XGA | 1024X768 | 48.4 | 60 |
| | | 56.5 | 70 |
| | | 60.0 | 75 |
| | | 68.7 | 85 |

(Synchronization input form : separate)

# Connection of external equipment

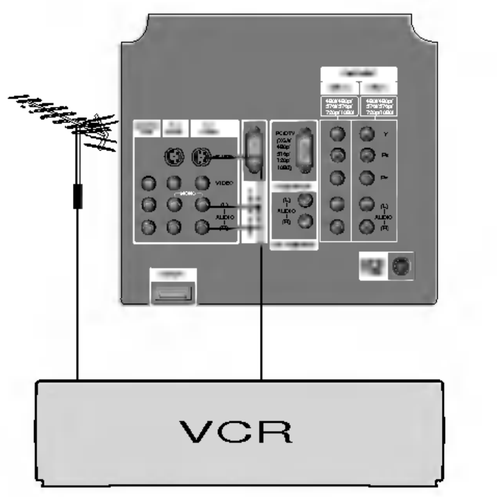
You can connect additional equipment, such as VCRs, camcorders etc. to your set.
Here shown may be somewhat different from your set.

## 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 input sockets (option)

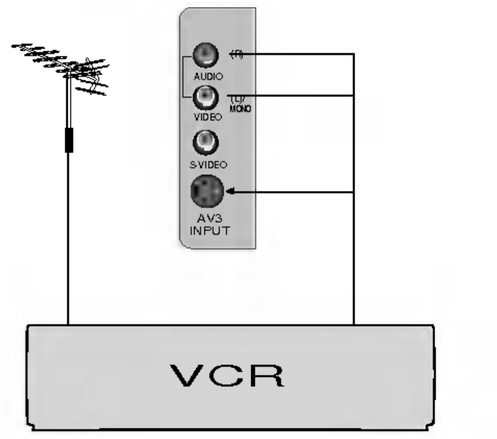



1. Connect the audio/video out sockets of the VCR to audio/video in sockets of the set.
2. Press the **TV/AV** button to select **AV1**, **AV2** or **AV3**.
3. Press the **PLAY** button on the VCR.
   The VCR playback picture appears on the screen.

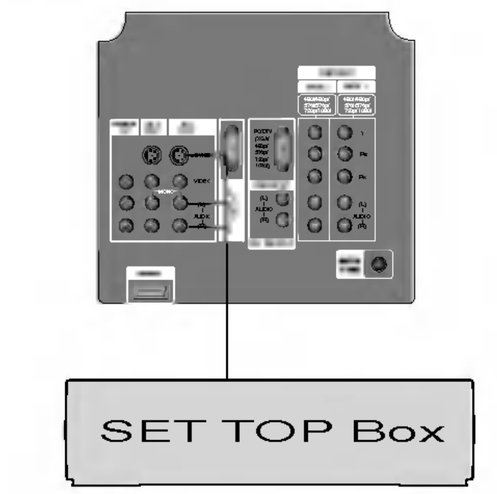
***Note :*** *If you have a mono VCR, connect the audio cable from the VCR to the* ***AUDIO L/MONO*** *socket of the set.*

## S-Video / Audio input sockets (option)

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



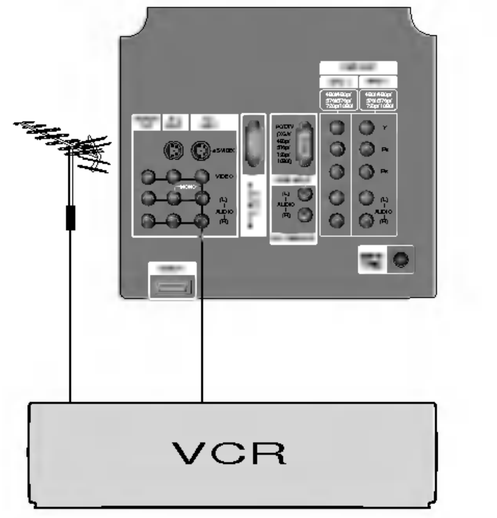

1. Connect the S-video socket of the VCR to the **S-VIDEO** socket of the set.
2. Connect the audio cable from the VCR to the AUDIO sockets of the **AV1**, **AV2** or **AV3**.
3. Select **AV1**, **AV2** or **AV3** by pressing the **TV/AV** button repeatedly.
4. Press the **PLAY** button on the VCR.
   The VCR playback picture appears on the screen.




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

## Monitor output sockets

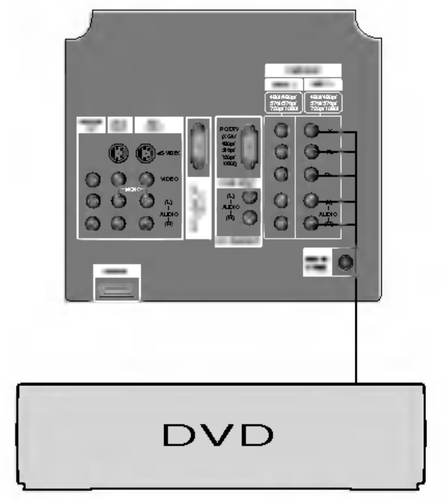
Connect the audio/video in sockets of the other TV or monitor to **MONITOR OUTPUT** sockets of the set.



# Connection of external equipment

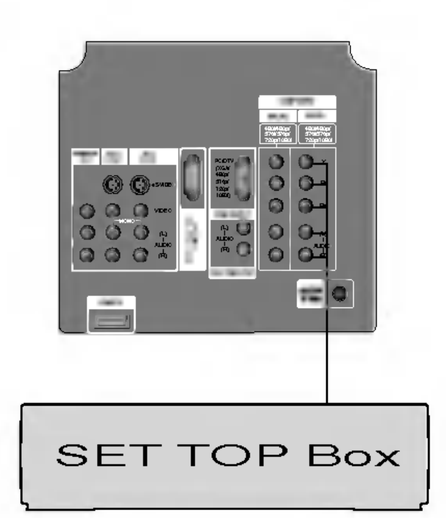
## DVD input sockets

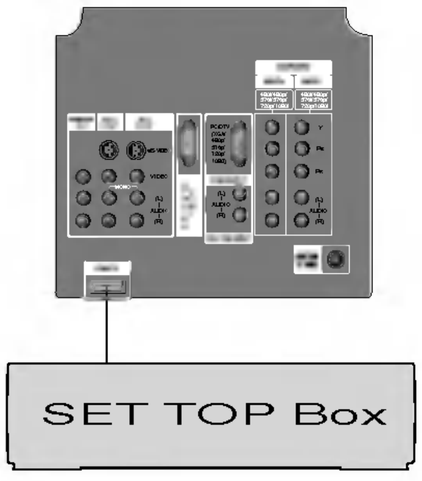
1. Connect the DVD output sockets (Y Cb Cr, Y Pb Pr, Y B-Y R-Y or Y $P_B$ $P_R$) of the DVD to the **DTV/DVD** sockets (Y $P_B$ $P_R$) of the set.
2. Connect the audio cable from the DVD to **COMPONENT** sockets of the set.
3. Press the **TV/AV** or **MULTIMEDIA** button to select **Component 1** or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




## DTV input sockets

1. Connect the SET TOP inputs to the **DTV/DVD** sockets (Y $P_B$ $P_R$) of the set. (or, connect the SET TOP with the D-Sub output socket to **RGB INPUT** socket on the set and audio cable of the HD-SET TOP to the AUDIO sockets of **RGB/DVI INPUT**.)
2. Connect the audio cable from the SET TOP to the **DTV/DVD AUDIO** sockets of the set.
3. Press the **TV/AV** or **MULTIMEDIA** button to select **Component 1, Component 2, RGB** or **HDMI/DVI**.



# Connection of external equipment

HIGH DEFINITION MULTIMEDIA INTERFACE

- HDMI™, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing.
- This set can receive the High-Definition Multimedia Interface (HDMI) or Input of Digital Visual Interface(DVI).
- This set supports HDCP (High-bandwidth Digital Contents Protection) Protocol for the set (480p, 720p, 1080i) modes.
- When you Connect with HDMI/DVI Source Devices (DVD Player or Set Top Box or PC) supporting Auto HDMI/DVI function, automatically, support Plug & Play and then set the HDMI/DVI Source Devices (640 x 480p). After reading in HDMI/DVI Source Devices using Display Data Channel(DDC) Protocol, EDID stored in the set is used. If HDMI/DVI Source Devices not supported Auto HDMI/DVI is been, the Resolution is set, manually.
- To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 1280 x 720p.
- To get the best picture quality, adjust the PC graphics card to 1024 x 768, 60Hz.
- When Source Devices have DVI Output Connector, you must connect audio with separated cable.(Refer to **<How to connect>**)

**How to connect**

1. When Source Devices (DVD Player or Set Top Box) support HDMI.
- If Source Devices have HDMI Output Connector, Source Devices connect to the set with HDMI Cable .(not supplied with the product).
- If Source Devices support Auto HDMI, automatically, Source Devices divert output resolution in 1280 x 720p. But if not, resolution divert Manually Setting for reference Manual of Source Devices.
- To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 1280 x 720p.
- Because HDMI sends Digital Video and Audio with one cable, need not especial Audio Cable for using HDMI Cable.

2. When Source Devices (DVD Player or Set Top Box) supports DVI.
- If Source Devices have DVI Output Connector, Source Devices connect to the set with HDMI to DVI Cable (not supplied with the product).
- If Source Devices support Auto DVI, automatically, Source Devices divert output resolution in 1280 x 720p. But if not, resolution divert Manually Setting for reference Manual of Source Devices.
- To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 1280 x 720p.
- In this case, Audio use other cable. When Source Devices have Analog Audio Output Connector, RGB/DVI Audio Input of the set connect to Audio Cable (not supplied with the product). And then you can listen to normal Audio.

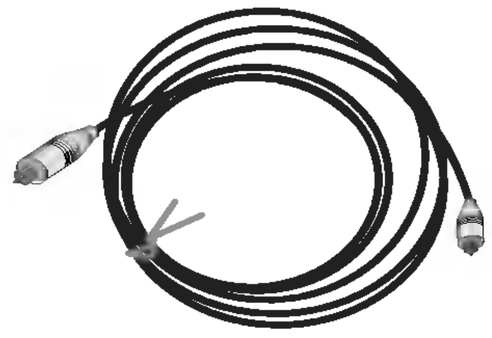
3. When PC supports DVI.
- If PC have DVI Output Connector, Source Devices connect to the set with HDMI to DVI Cable (not supplied with the product).
- To get the best picture quality, adjust the PC graphics card to 1024 x 768, 60Hz.
- Use the the set's HDMI/DVI (VIDEO) for video connections, depending on your PC connector.
- If the graphics card on the PC does not output analog RGB and DVI simultaneously, connect only one of either RGB Input or HDMI/DVI Input to display the PC on the set.
- If he graphics card on the PC does output analog RGB and DVI simultaneously, the set to either RGB Input or HDMI/DVI Input; (the other mode is set to Plug and Play automatically by the set.)
- Then, make the corresponding audio connections. If using a sound card, adjust the PC sound as required.
- In this case, Audio use other cable. When PC (or sound card of PC) have Analog Audio Output Connector, RGB/DVI Audio Input of the set connect to Analog Audio Cable (not supplied with the product). And then you can listen to normal Audio.

# Connection of external equipment

**Reference**
Cable sample



HDMI Cable
(not supplied with the product)



Analog Audio Cable (RCA type)
(not supplied with the product)



HDMI to DVI Cable
(not supplied with the product)



Analog Audio Cable (Stereo to RCA type)
(not supplied with the product)

**How to use**
1. Connect the HDMI/DVI Source Devices(DVD Player or Set Top Box or PC) and the set.
2. Turn on the display by pressing the POWER button on the set and HDMI/DVI Source Devices remote control.
3. Select HDMI/DVI Input source in Main Input option of PIP/DW menu.
4. Check the image on your set. There may be noise associated with the resolution, vertical pattern, contrast or brightness in HDMI/DVI Source Devices. If noise is present, change the HDMI/DVI Source Devices to another resolution, change the refresh rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphics card can not changed, change the PC graphics card or consult the manufacturer of the PC graphics card.

***Notes**:*
- *Depending on the graphics card, DOS mode may not work if you use a HDMI to DVI Cable.*
- *Avoid keeping a fixed image on the set screen for a long period of time. The fixed image may become permanently imprinted on the screen. Use the Orbiter screen saver when possible.*
- *When Source Devices connected HDMI/DVI Input, output PC Resolution(VGA, SVGA, XGA), Position, Size may not fit to Screen. As shown the lower picture, press the **MENU** button to adjust the screen Position of the set and contact an PC graphics card service center.*
- *When Source Devices connected HDMI/DVI Input output the set Resolution(480p, 720p, 1080i), the set Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual of HDMI/DVI Source Devices or contact your service center.*
- *In case HDMI/DVI Source Devices is not connected Cable or poor cable connection, "No Signal" OSD display in HDMI/DVI Input. And In case of Video Resolution not supported the set output in HDMI/DVI Source Devices, "No Signal" OSD display. Refer to the Manual of HDMI/DVI Source Devices or contact your service center.*

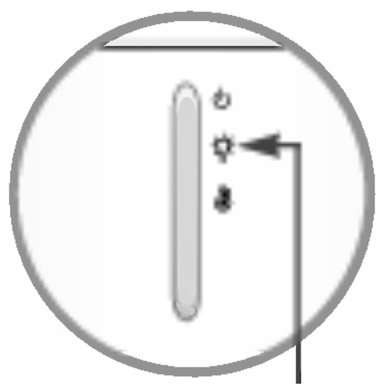
# Replacing the Lamp

## Lamp unit replacement

* You must replace the lamp when:

The image gets darker or starts to deteriorate.
The lamp indicator is orange.
The lamp indicator is red.
The message “Replace the lamp” appears on the screen when turning the TV on.

<Front panel of the TV>



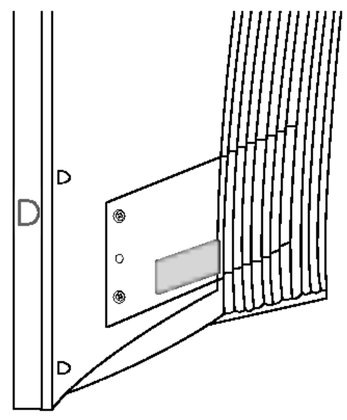
Lamp indicators

## Be careful when replacing lamp

- Turn off the power with the remote control. In 3 minutes, press the power button to off on the front panel and unplug the power cord.(For 2 minutes, cooling fan works after turning off power)
- Allow the lamp to cool for 30 minutes before replacing it.
- Replace only with the same type lamp from a LG Electronics Service Centre. Using other lamp type may cause damage to the TV and lamp.
- Pull out the lamp only when replacing the lamp.
- Keep the lamp unit out of reach of children or and heat sources such as radiators, stoves.
- To reduce the risk of fire, lamp shall not be exposed to liquids or foriegn material.
- Do not place the lamp near any heat source.
- Make sure the new lamp is securely tightened with screws. If not, the image may be dark or there could be a risk of fire.
- Never touch the lamp unit glass or otherwise get it dirty.

## To obtain a replacement Lamp unit

Lamp model number is on the lamp cover. check the lamp model and then locate a LG electronic service center.
Using other type of lamp may cause damage to the TV or lamp.



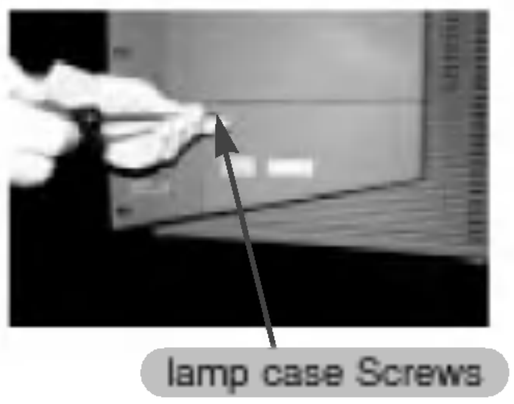

## Lamp unit disposal

LG electronic is provided with an interlock to reduce the risk of excessive ultraviolet radiation.
Dispose of the used lamp by returning it to the LG electronic service center.

# Replacing the Lamp

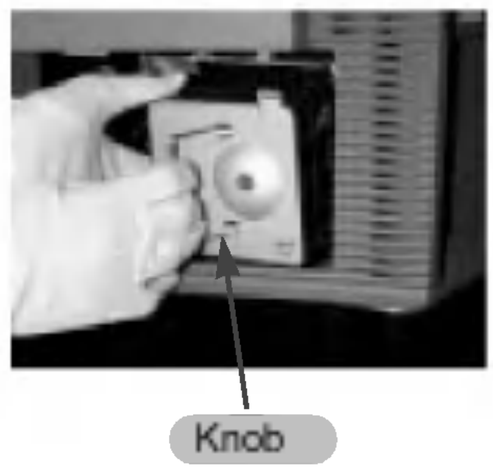
## Replacing the Lamp

1. Turn off the power on the remote control to STBY. In 3 minutes, press the power button to off on the front panel and unplug the power cord.
   (Allow the lamp to cool for 30 minutes before replacing it.)
2. Remove the 2 retaining screws on the lamp cover with a “+” type screwdriver then separate the lamp cover from the TV.
3. Remove the two retaining screws on the lamp case by using “-” type screwdriver.




4. Lift up the fixed wire knob on the lamp.
5. Pull out the knob slowly and remove the lamp case.
6. Insert the new lamp gently into the correct position. Make sure it is inserted correctly.
7. Tighten the screws you removed in step 3.
8. Replace the lamp cover and tighten the cover screws.
   (If the lamp cover is open, the lamp indicator flashes green and the TV will not turn on.)




***Note :***

- *Only use LG approved lamp replacement.*
- *Using incorrect type of lamp may cause damage to the TV or lamp.*
- *Make sure the lamp cover is securely fastened. If the lamp cover is open, the TV will not turn on.*

## Reset Lamp Use Time

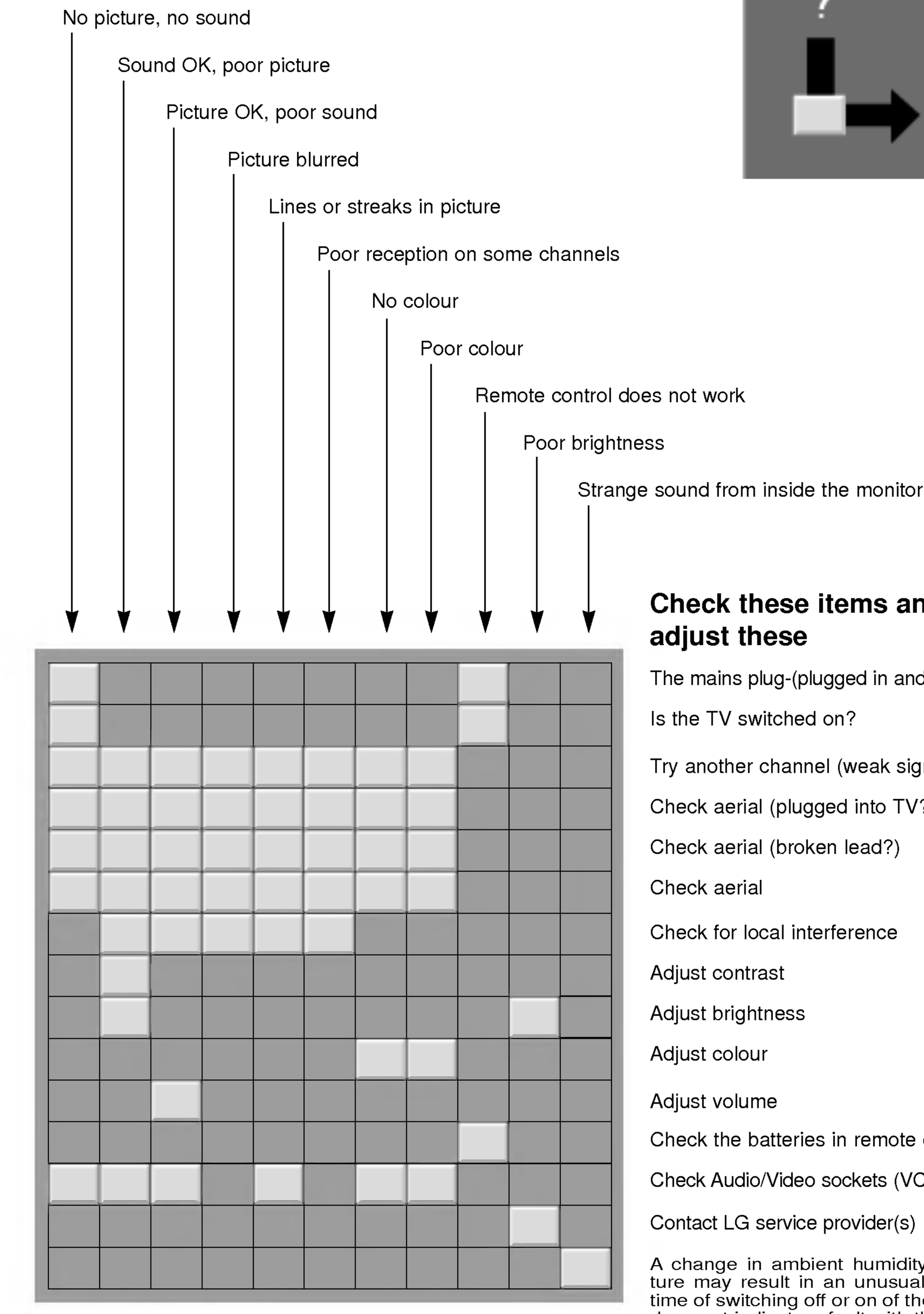
* You must reset lamp time on the menu after replacing the lamp.
* In some models, the lamp time may not be reset.

1. Press the **OK** or **ENTER** button on the front panel and **MUTE** button on the remote control simultaneously (About 5 seconds).
2. Press the **OK** or ► button.
   Lamp use time will be reset.



# Troubleshooting check list

## Symptoms







## 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)

Contact LG service provider(s)

A change in ambient humidity or temperature may result in an unusual noise at the time of switching off or on of the monitor and does not indicate a fault with the monitor

