



# LCD TV

## OWNER'S MANUAL

MODEL: 32LX2R\*\* | 26LX2R\*\* |  
32LX1R\*\* | 26LX1R\*\*



Please read **Information Manual** included together before reading this manual and operating your set.

Retain it for future reference.

Record model number and serial number of the set.

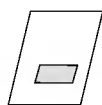
See the label attached on the back cover and quote this information to your dealer when you require service.

P/NO : 38289U0017G(0511-REV00)

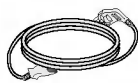
Printed in Korea

## Accessories

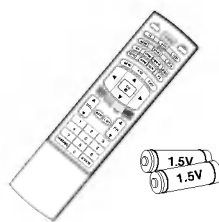
Ensure that the following accessories are included with your TV. If any accessory is missing, please contact the dealer from where you purchased the product.



Owner's Manual



Power Cord



Remote Control / Batteries



Polishing Cloth  
Polish the screen with the cloth.



DVI-D cable (PC)



DVI to D-Sub cable (PC)



Audio cable (PC)



Twister Holder



2-TV Brackets, 2-Wall Brackets



2-TV Bracket Bolts

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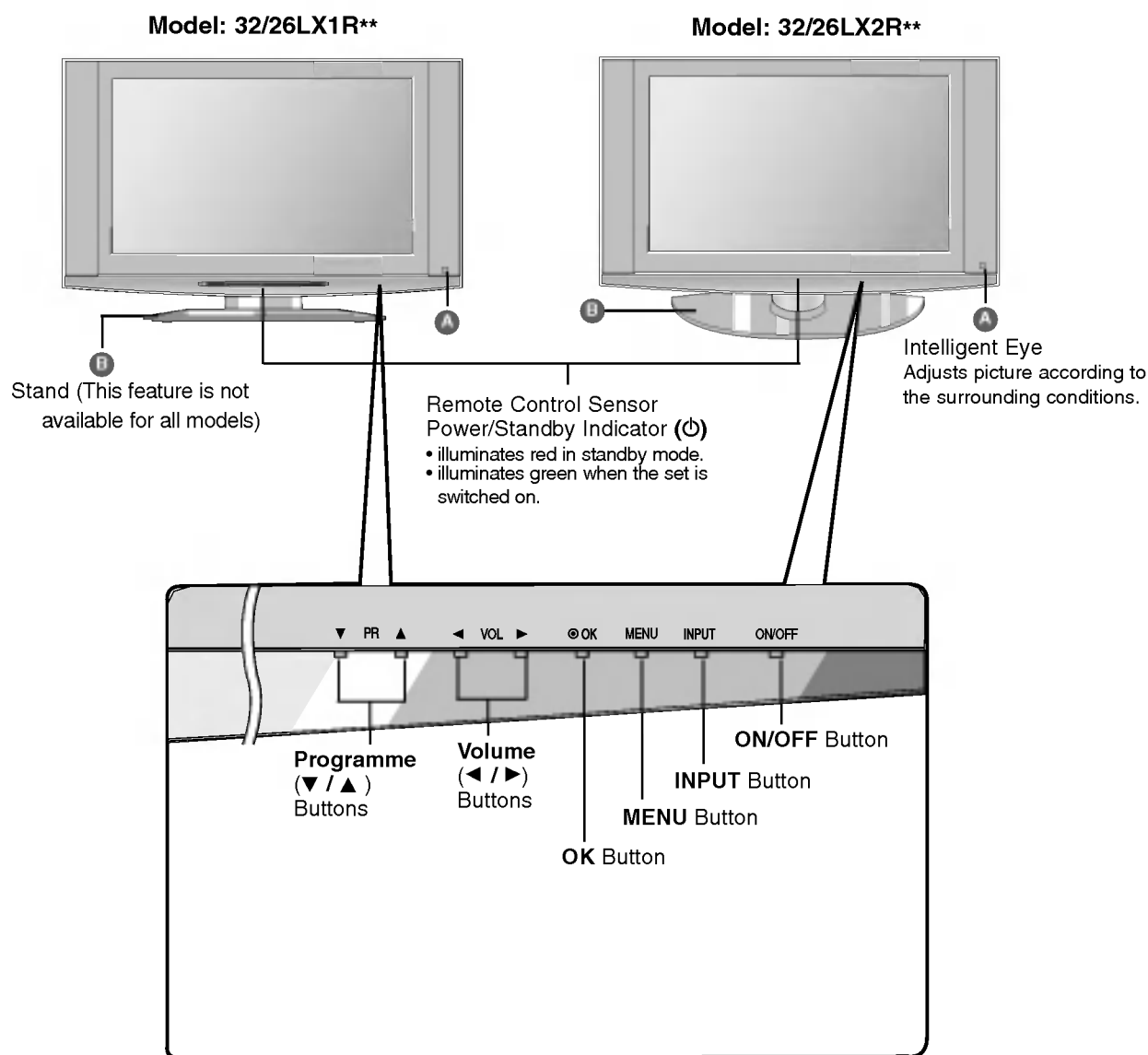
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# Introduction

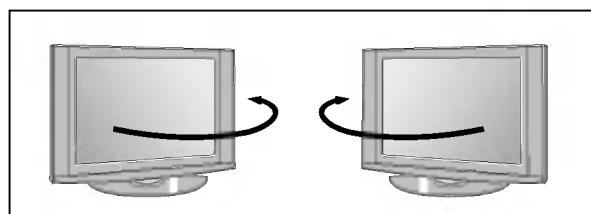
## Controls

- This is a simplified representation of front panel.
- Here shown may be somewhat different from your TV.



### Swivel Stand - 32/26LX2R\*\*

- This feature is not available for all models.

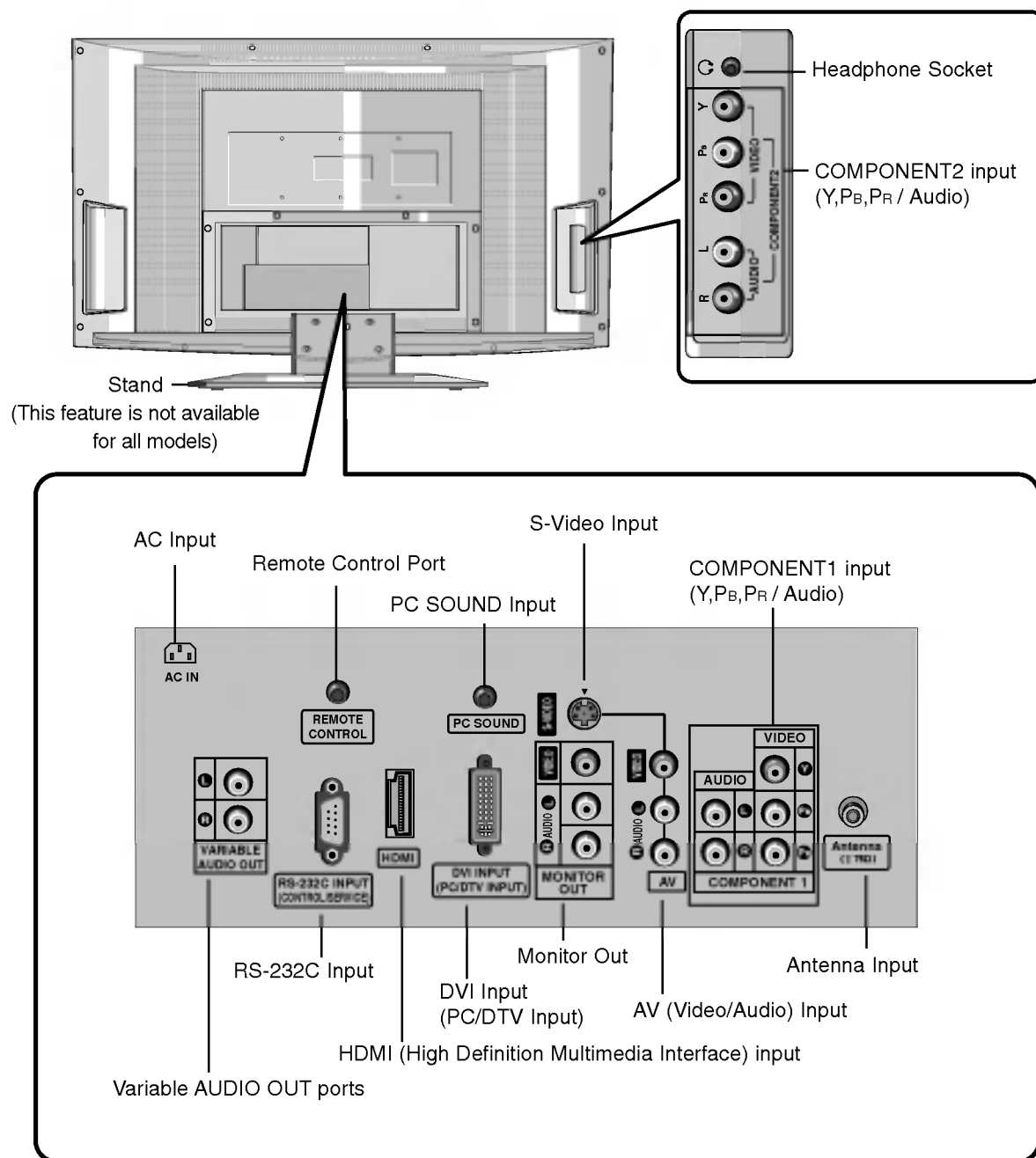


- The TV can be conveniently swiveled on its stand 30° to the left or right to provide the optimum viewing angle.

# Introduction

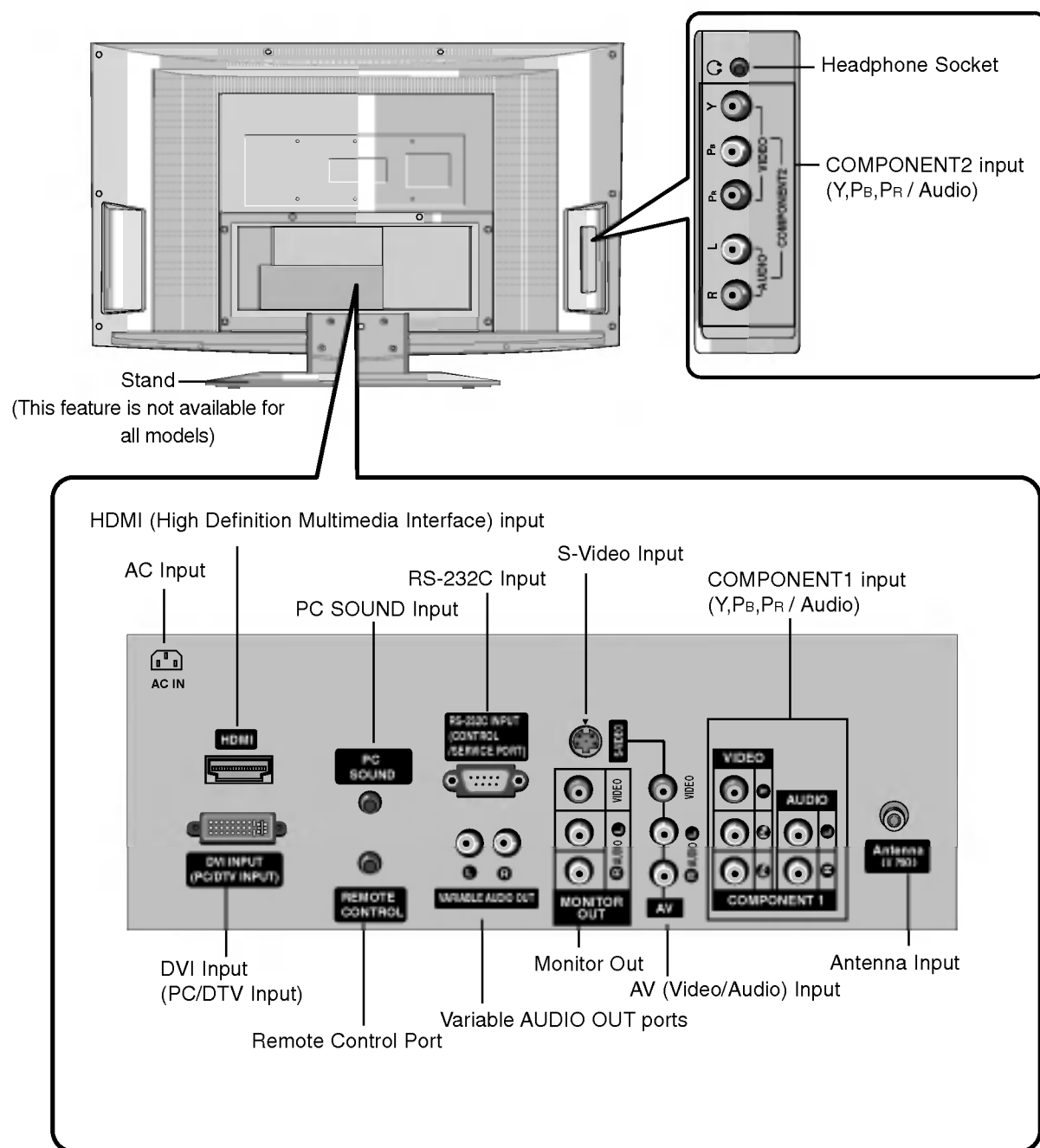
## Connection Options (Model: 32LX1R\*\*/32LX2R\*\*)

- Here shown may be somewhat different from your TV.



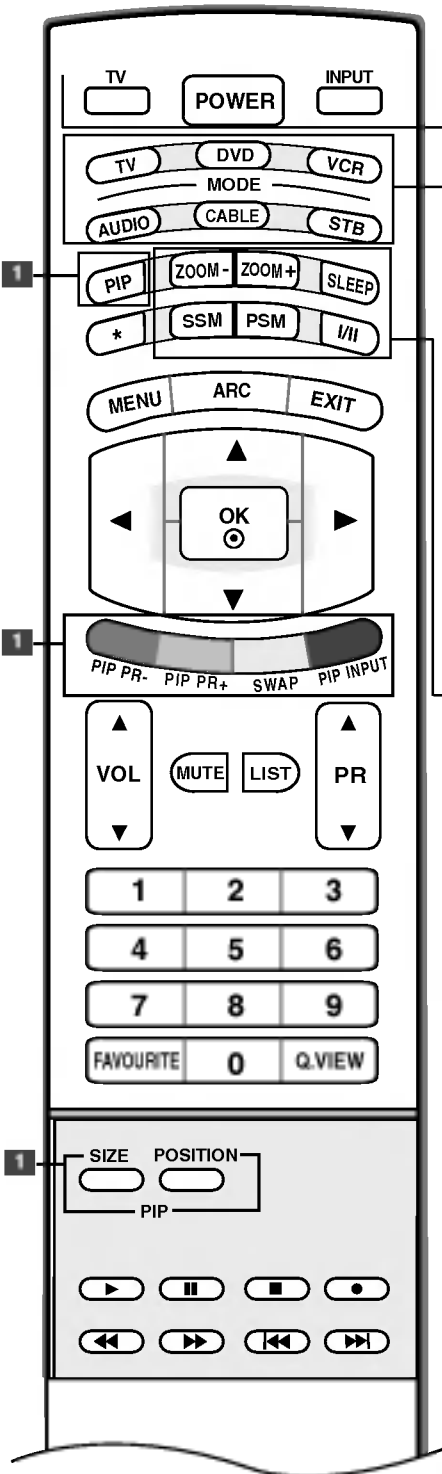
## Connection Options (Model: 26LX1R\*\*/26LX2R\*\*)

- Here shown may be somewhat different from your TV.



# Introduction

## Remote Control Key Functions



(Without TELETEXT)

### TV

Returns to TV viewing from any mode.

### POWER

switches the set on from standby or off to standby.

### INPUT



If you press the button once, the input source OSD will appear on screen as shown. Press the **▲ / ▼** button and then **OK** button to select the desired input source (**TV**, **AV**, **S-Video**, **Component 1**, **Component 2**, **DVI PC/DVI DTV**, or **HDMI PC/ HDMI DTV**).

### MODE

Selects the remote operating modes. :TV, DVD, VCR, AUDIO, CABLE or STB

### 1 PIP BUTTONS

**PIP** (Refer to p.46)

Switches the sub picture PIP, DW, Multi PIP or off mode.

**PIP PR - / +** (Refer to p.49)

Selects a programme for the sub picture.

**SWAP** (Refer to p.49)

Alternates between main and sub picture.

**PIP INPUT** (Refer to p.46)

Selects the input mode for the sub picture.

**SIZE** (Refer to p.47)

Adjusts the sub picture size.

**POSITION** (Refer to p.47)

Moves the sub picture to **▲ / ▼** or **◀ / ▶** direction.

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

### ZOOM - / ZOOM +

Enlarges or reduces the main picture size.

### SLEEP

Sets the sleep timer. (Refer to p.37)

### SSM (Sound Status Memory)

Recalls your preferred sound setting. (Refer to p.32)

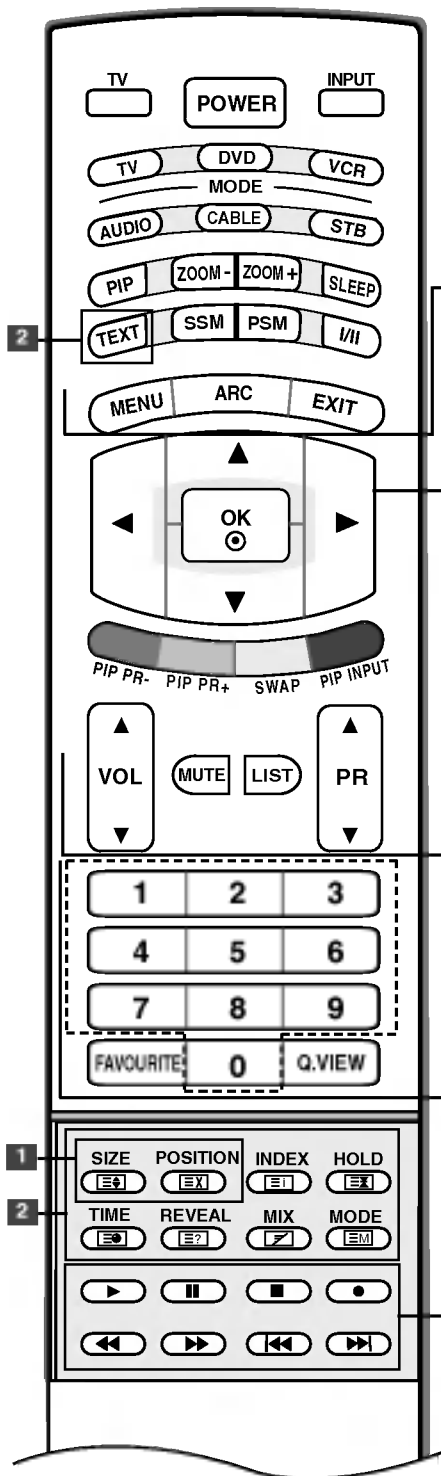
### PSM (Picture Status Memory)

Recalls your preferred picture setting. (Refer to p.29)

### I/II

• Selects the sound output.

**\*** : No function



(With TELETEXT)

**2 TELETEXT BUTTONS** (This feature is not available in all countries.)  
These buttons are used for teletext.  
For further details, see the 'Teletext' section (Refer to p.50).

**MENU**  
Selects a menu.

**ARC**  
Selects your desired picture format (Refer to p.42).

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

**▲ / ▼ / ◀ / ▶ (up / down / left / right)**  
Selects or adjusts an item in the menu.

**OK**  
Accepts your selection or displays the current mode.

**VOL (Volume) ▲ / ▼**  
Adjusts the volume.

**MUTE**  
Switches the sound on or off.

**LIST**  
Displays the programme table (Refer to p.28).

**PR (Programme) ▲ / ▼**  
Selects a programme.

**0-9 number buttons**  
• Selects a programme.  
• Selects numbered items in a menu.

**FAVOURITE**  
Displays the selected favourite programme (Refer to p.28).

**Q.VIEW**  
Returns to the previously viewed programme.

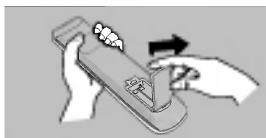
**VCR/DVD Control buttons**  
Controls a LG video cassette recorder or DVD.

# Introduction

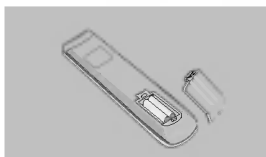
## Remote Control Key Functions

### Installing Batteries

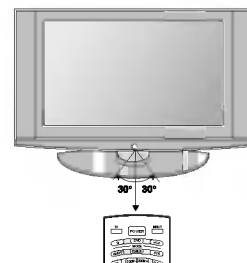
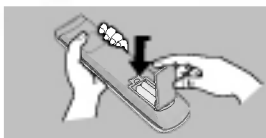
- 1 Open the battery compartment cover on the back side.



- 2 Insert two 1.5V AA size batteries in correct polarity (+ with +, - with -). Don't mix old or used batteries with new ones.



- 3 Close the cover.

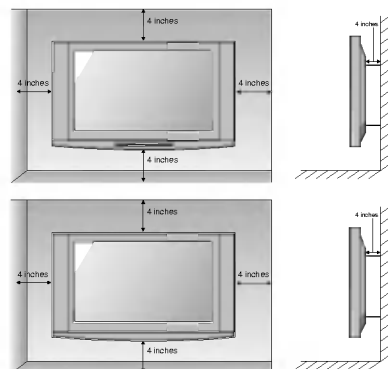


\* Use a remote control at 7 meter distance and 30 degree (left/right/up/down) within the receiving unit scope.

\* Dispose of used batteries in the recycle bin to prevent environment.

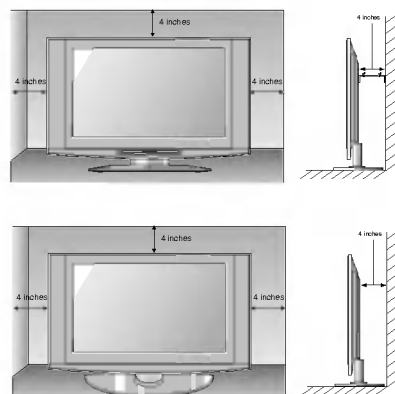
### Wall Mount: Horizontal installation

For proper ventilation, allow a clearance of 4" on each side and from the wall. Detailed installation instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.



### Desktop Pedestal Installation

For proper ventilation, allow a clearance of 4" on each side and from the wall.



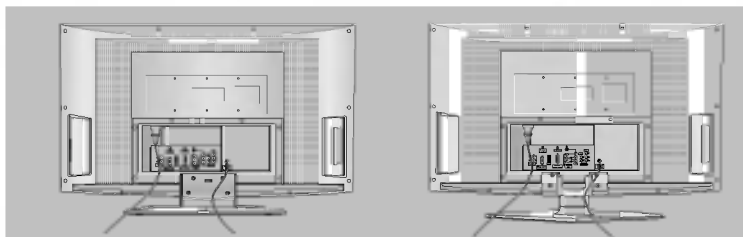
## Basic Connection

- 1** Hold the cover with both hands and pull it backward.



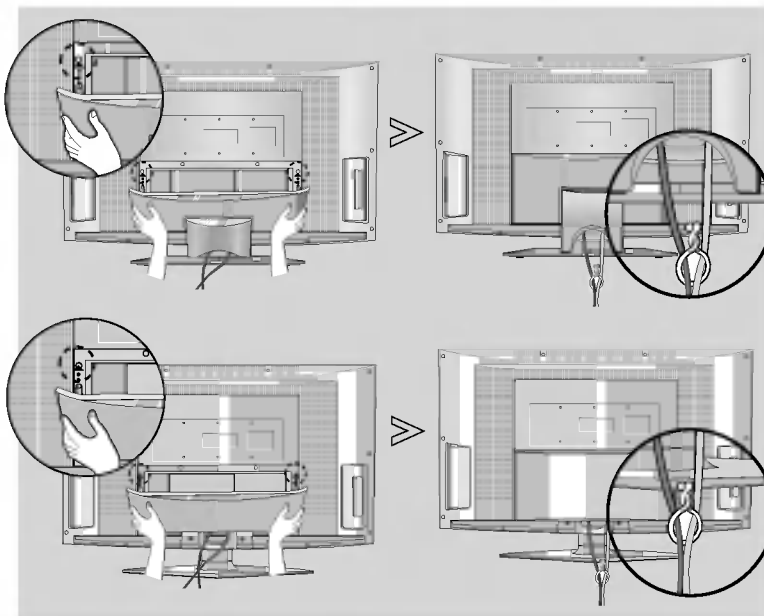
- 2** Connect the cables as necessary.

To connect an additional equipment, see the **External equipment Connections** section.



- 3** Align the holes on the TV back panel with the protuberances on the back cover and insert the back cover.

Pull the cables through the spacing on the set and bundle the cables using the supplied twister holder.



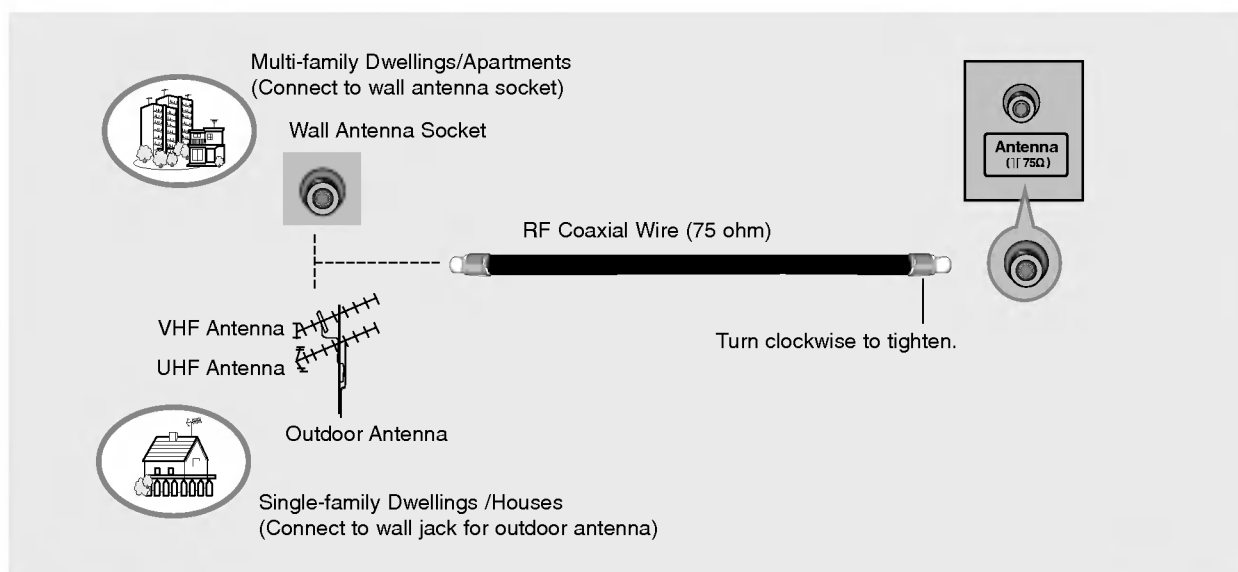
# Installation Instruction

## External Equipment Connections

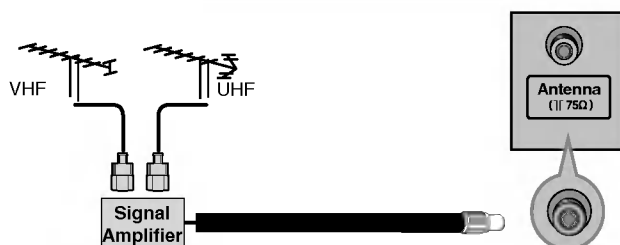
To prevent the equipment from damage, never plug in any power cords until you have finished connecting all equipment.

### Antenna Connection

- For optimum picture quality, adjust antenna direction.
- An antenna cable and converter are not supplied.

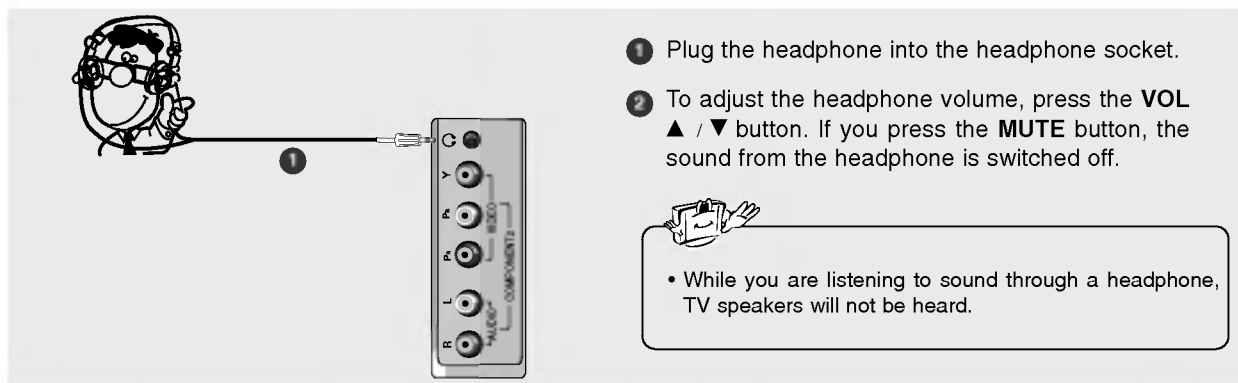


- In poor signal areas, to get better picture quality, install a signal amplifier to the antenna as shown to the right.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.



### Headphone Socket

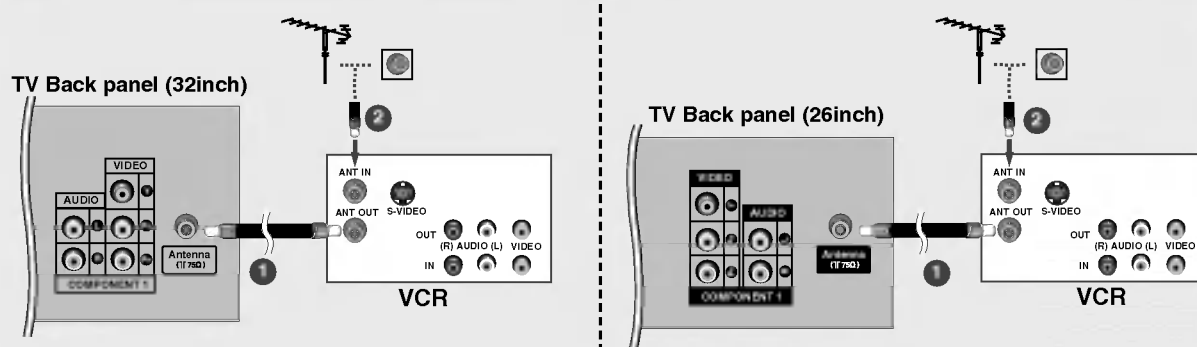
- You can listen to the sound through the headphone.



## VCR Setup

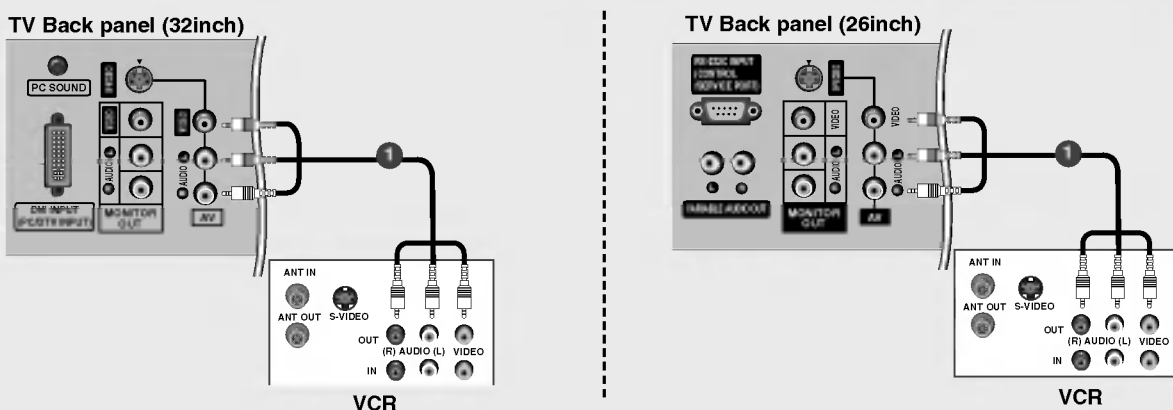
- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- Typically a frozen still picture from a VCR. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen.

### When connecting with an antenna cable



- 1 Connect the **ANT OUT** socket of the VCR to the **Antenna** socket on the set.
- 2 Connect the antenna cable to the **ANT IN** socket of the VCR.
- 3 Press the **PLAY** button on the VCR and match the appropriate programme between the TV and VCR for viewing.

### When connecting with a RCA cable



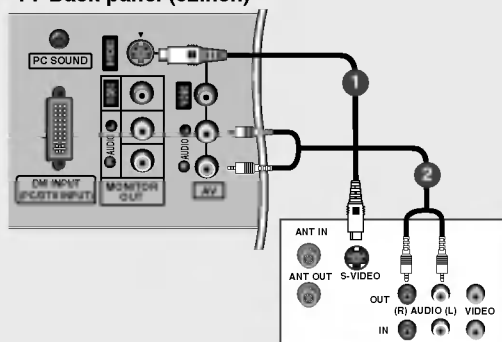
- 1 Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV** input source with using the **INPUT** button on the remote control.

# Installation Instruction

## External Equipment Connections

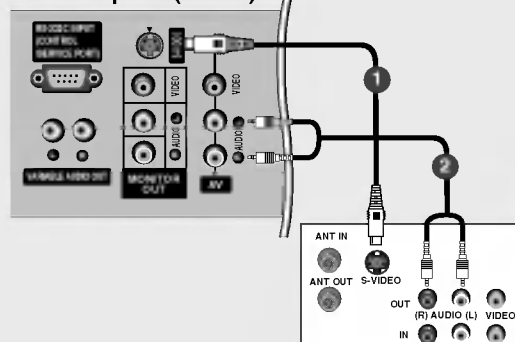
When connecting with an S-Video cable

TV Back panel (32inch)



VCR

TV Back panel (26inch)



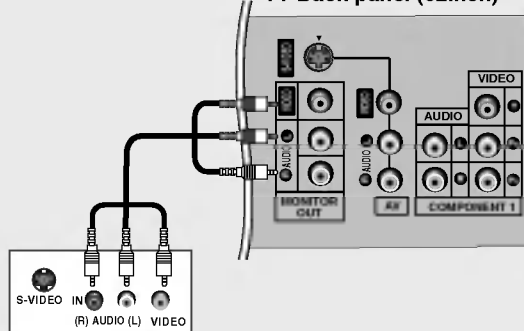
VCR

- ❶ Connect the **S-VIDEO** output of the VCR to the **S-VIDEO** input on the set. The picture quality is improved; compared to connecting a regular VCR to the Video input.
- ❷ Connect the **AUDIO** jacks between TV and VCR.
- ❸ Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- ❹ Select **S-Video** input source with using the **INPUT** button on the remote control.

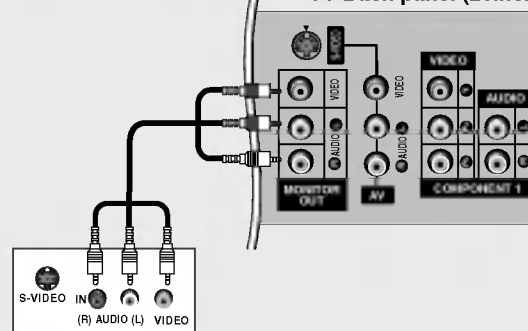
## Monitor Out Setup

- The TV has a special signal output capability which allows you to hook up a second TV or monitor.

TV Back panel (32inch)



TV Back panel (26inch)



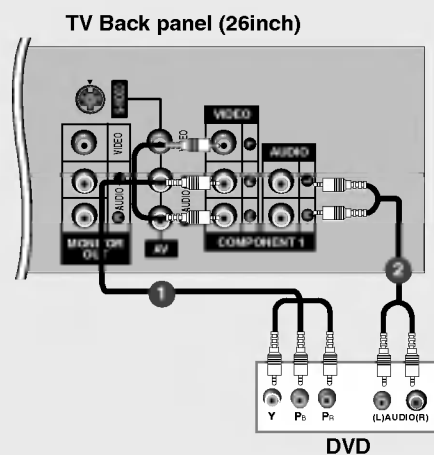
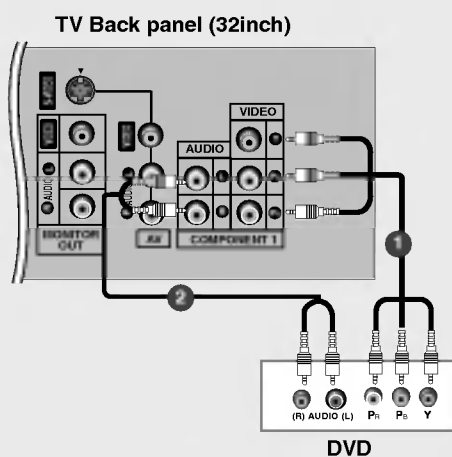
- ❶ Connect the second TV or monitor to the TV's **MONITOR OUT** jacks.
- ❷ See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.



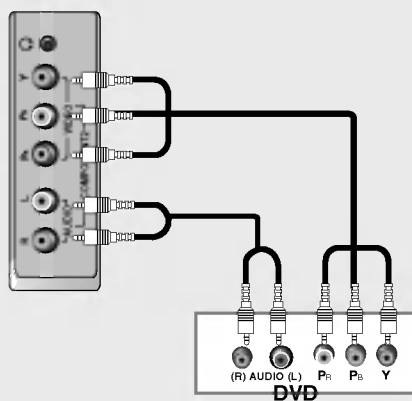
- **TV**, or **AV** input sources can be used for Monitor out.
- When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off. (Refer to p.34)

## DVD Setup

### When connecting with a component cable



### TV side panel (32, 26inch)



- 1 Connect the video outputs (Y, Pb, Pr) of the DVD to the **COMPONENT VIDEO (Y, Pb, Pr)** jacks on the set.
- 2 Connect the audio outputs of the DVD to the **COMPONENT AUDIO** jacks on the set.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **Component 1** input source with using the **INPUT** button on the remote control.  
- If connected to **Component 2**, select **Component 2** input source.
- 5 Refer to the DVD player's manual for operating instructions.



#### • Component Input ports

To get better picture quality, connect a DVD player to the component input ports as shown below.

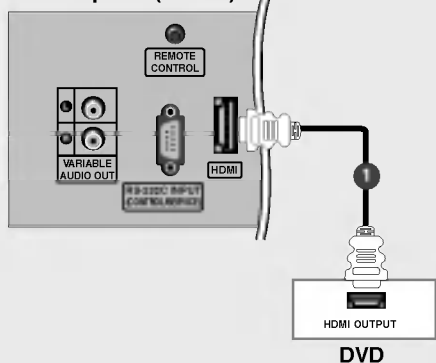
| Component ports on the TV           | Y | Pb  | Pr  |
|-------------------------------------|---|-----|-----|
| Video output ports<br>on DVD player | Y | Pb  | Pr  |
|                                     | Y | B-Y | R-Y |
|                                     | Y | Cb  | Cr  |
|                                     | Y | PB  | PR  |

# Installation

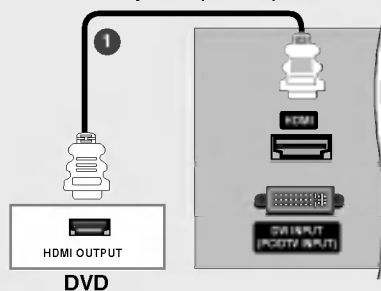
## External Equipment Connections

### When connecting with a HDMI cable

TV Back panel (32inch)



TV Back panel (26inch)



- 1 Connect the HDMI output of the DVD player to the **HDMI** jack on the set.
- 2 Select **HDMI DTV** input source with using the **INPUT** button on the remote control.
- 3 Refer to the DVD player's manual for operating instructions.

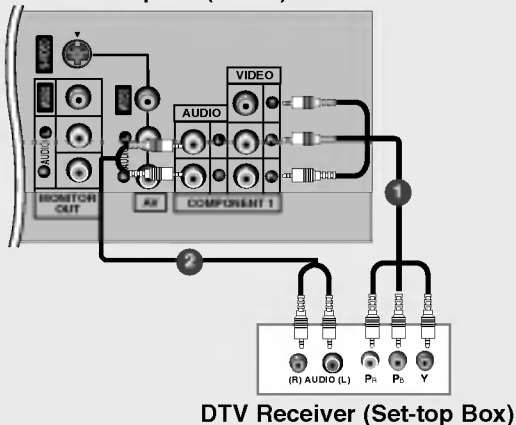


- TV can receive the video and audio signal simultaneously with using a HDMI cable.

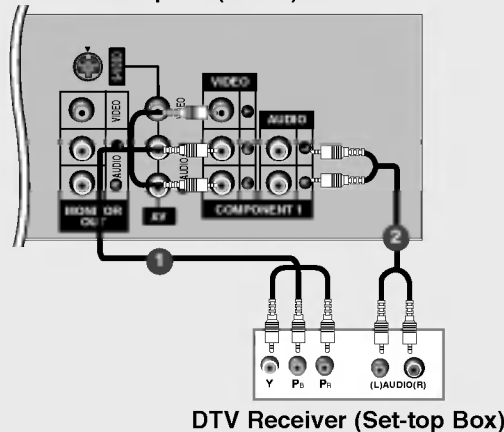
## STB ( Set-Top Box) Setup

### When connecting with a component cable

TV Back panel (32inch)



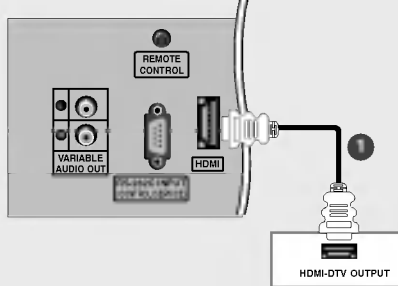
TV Back panel (26inch)



- 1 Connect the video outputs (Y, PB, PR) of the digital set-top box to the **COMPONENT VIDEO (Y, PB, PR)** jacks on the set.
- 2 Connect the audio outputs of the digital set-top box to the **COMPONENT AUDIO** jacks on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select **Component 1** input source with using the **INPUT** button on the remote control.  
- If connected to **Component 2**, select **Component 2** input source.

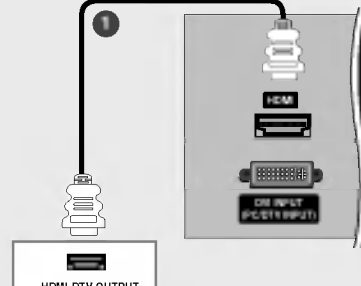
### When connecting with a HDMI cable

TV Back panel (32inch)



DTV Receiver (Set-top Box)

TV Back panel (26inch)



DTV Receiver (Set-top Box)

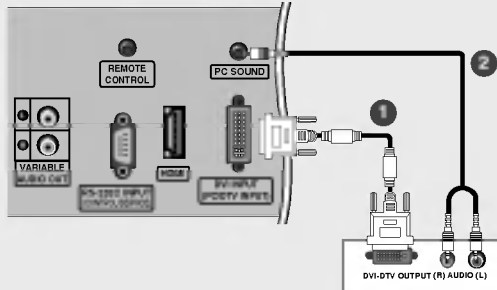
- 1 Connect the HDMI output of the digital set-top box to the **HDMI** jack on the set.
- 2 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 3 Select **HDMI DTV** input source with using the **INPUT** button on the remote control.



- TV can receive the video and audio signal simultaneously with using a HDMI cable.

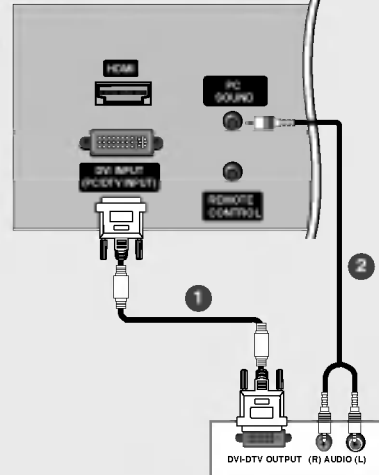
### When connecting with a DVI cable

TV Back panel (32inch)



DTV Receiver (Set-top Box)

TV Back panel (26inch)



DTV Receiver (Set-top Box)

- 1 Connect the DVI output of the digital set-top box to the **DVI INPUT (PC / DTV INPUT)** jack on the set.
- 2 Connect the audio outputs of the set-top box to the **PC SOUND** jack on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select **DVI DTV** input source with using the **INPUT** button on the remote control.

# Installation

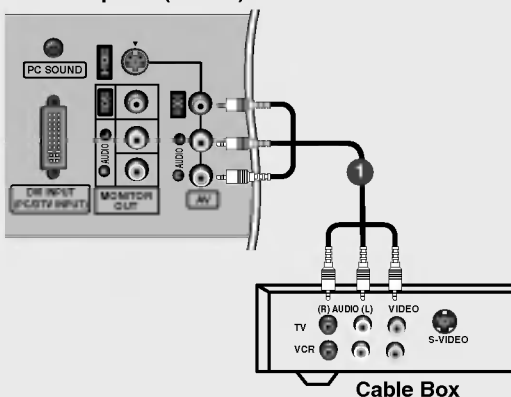
## External Equipment Connections

### Cable TV Setup

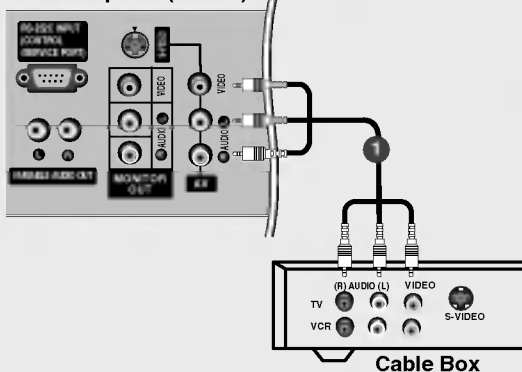
- After subscribing to a local cable TV service and installing a converter, you can watch cable TV programmes.
- For further cable TV information, contact a local cable service provider.

#### When connecting with a RCA cable

TV Back panel (32inch)



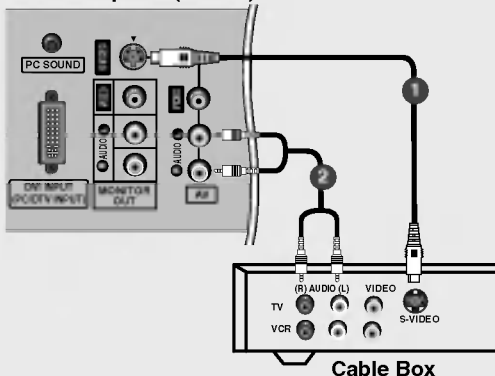
TV Back panel (26inch)



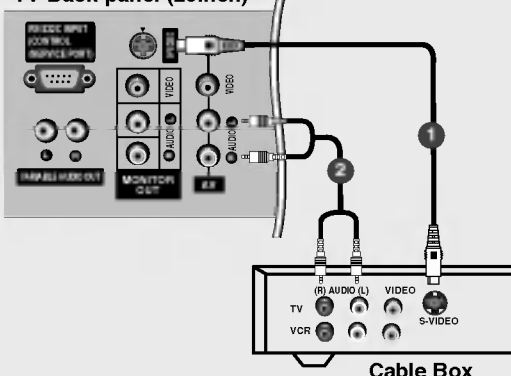
- 1 Connect the **AUDIO/VIDEO** jacks between TV and Cable Box. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Select **AV** input source with using the **INPUT** button on the remote control.
- 3 Select programmes with the cable box remote control.

#### When connecting with an S-Video cable

TV Back panel (32inch)



TV Back panel (26inch)

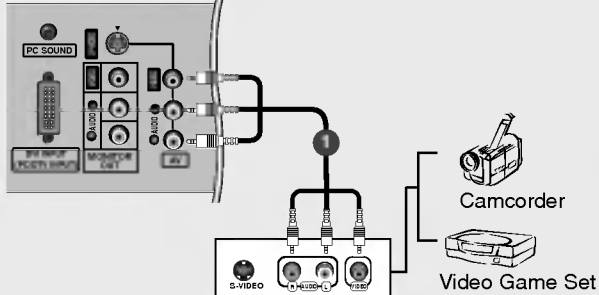


- 1 Connect the **S-VIDEO** output of the Cable Box to the **S-VIDEO** input on the set. The picture quality is improved.
- 2 Connect the **AUDIO** jacks between TV and Cable Box.
- 3 Select **S-Video** input source with using the **INPUT** button on the remote control.
- 4 Select programmes with the cable box remote control.

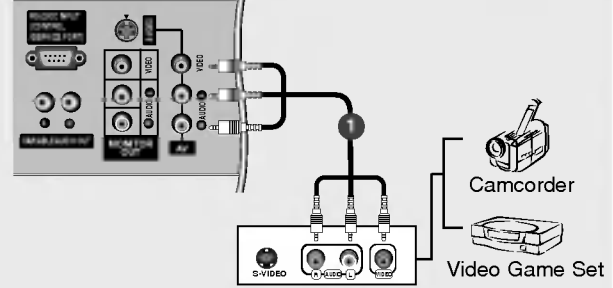
## External AV Source Setup

### When connecting with a RCA cable

TV Back panel (32inch)



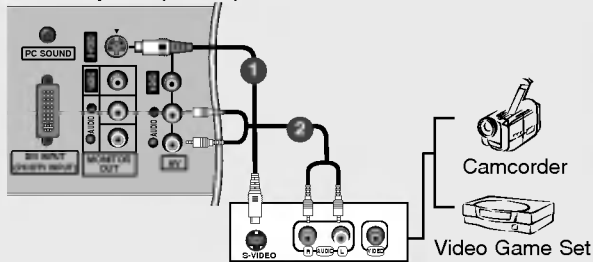
TV Back panel (26inch)



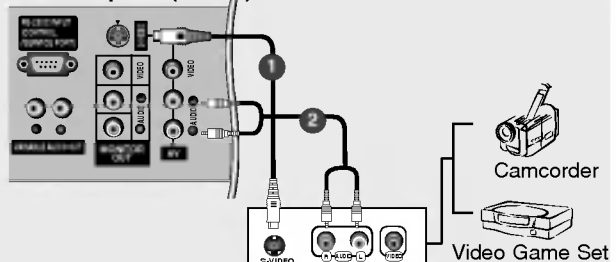
- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red).
- 2 Select **AV** input source with using the **INPUT** button on the remote control.
- 3 Operate the corresponding external equipment. Refer to external equipment operating guide.

### When connecting with an S-Video cable

TV Back panel (32inch)



TV Back panel (26inch)

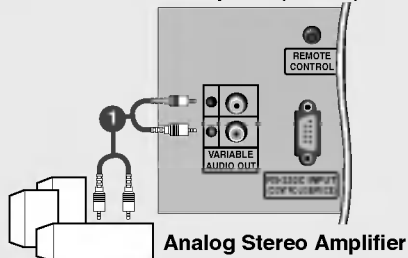


- 1 Connect the **S-VIDEO** output of the external equipment to the **S-VIDEO** input on the set. The picture quality is improved.
- 2 Connect the **AUDIO** jacks between TV and external equipment.
- 3 Select **S-Video** input source with using the **INPUT** button on the remote control.
- 4 Operate the corresponding external equipment. Refer to external equipment operating guide.

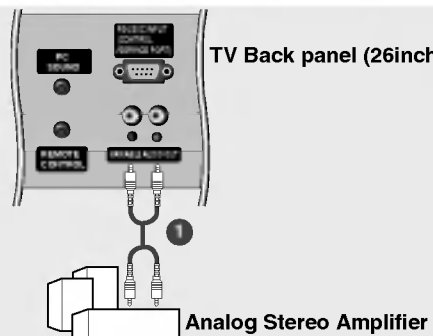
## External Stereo

- Use to connected either an external amplifier, or add a sub-woofer to your surround sound system.

TV Back panel (32inch)



TV Back panel (26inch)



- 1 Connect the input jack of the stereo's amplifier to the **VARIABLE AUDIO OUT** jacks on the set.
- 2 Set up your speakers through your analog stereo amplifier, according to the instructions provided with the amplifier.
  - When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off. (Refer to p.34)

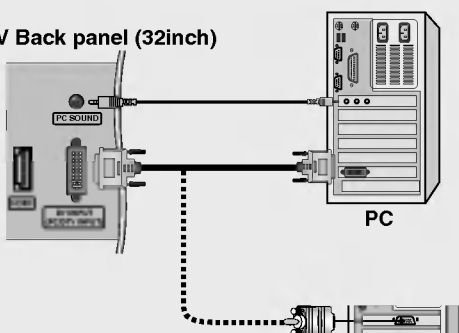
# Installation

## External Equipment Connections

### PC Setup

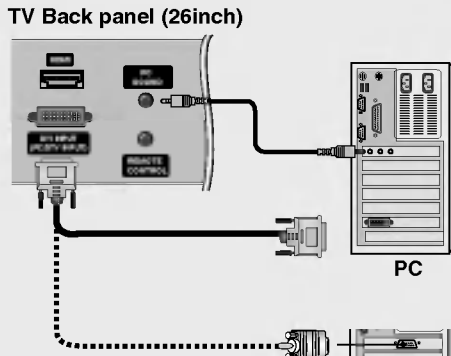
#### When connecting with a DVI-D cable or a DVI to D-Sub cable

TV Back panel (32inch)



- 1 Connect the TV to the PC with the PC cable.
- 2 Connect the PC audio output to the TV's **PC SOUND** input.
- 3 Turn on the PC.
- 4 Select **DVI PC** input source with using the **INPUT** button on the remote control.

TV Back panel (26inch)

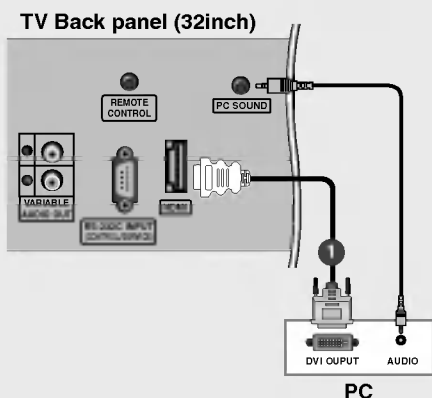


#### NOTE

Connect the signal cable (DVI-D cable, Not DVI to D-Sub cable) from the DVI output socket of the PC to the DVI input socket of the set when using a PC with DVI output. In some video cards, DVI-Analog output may not be supported.

#### When connecting with a HDMI to DVI cable

TV Back panel (32inch)

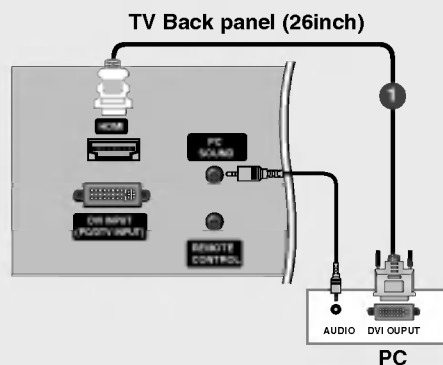


- 1 Connect the DVI output of the PC to the **HDMI** jack on the set.
- 2 Connect the PC audio output to the **PC SOUND** jack on the set.
- 3 Turn on the PC and the set.
- 4 Select **HDMI PC** input source with using the **INPUT** button on the remote control.



- If the PC has a DVI output and no HDMI output, a separated audio connection is necessary.
- It's not available to connect with a HDMI to DVI cable to the **DVI INPUT** jack on the set.

TV Back panel (26inch)



## Supported display resolution

### ■ PC (Monitor Display Specifications)

| Resolution           | Horizontal Frequency(kHz)  | Vertical Frequency(Hz) |
|----------------------|----------------------------|------------------------|
| 720 x 400            | 31.468                     | 70                     |
| 640 x 480            | 31.469<br>37.500           | 60<br>75               |
| 800 x 600            | 37.879<br>46.875           | 60<br>75               |
| 832 x 624            | 49.725                     | 75                     |
| 1024 x 768<br>(XGA)  | 48.363<br>56.470<br>60.123 | 60<br>70<br>75         |
| 1280 x 768<br>(WXGA) | 47.776                     | 60                     |
| 1360 x 768<br>(WXGA) | 47.720                     | 60                     |
| 1366 x 768<br>(WXGA) | 47.720                     | 60                     |



#### Note

- For optimum picture quality, use standard WXGA 1360x768 computer output at a 60Hz refresh rate. Using other formats (VGA, SVGA, etc.) or refresh rates may result in reduced picture quality. (To change the computer video output format, please refer to the operating manual for the computer you are using).
- If the message **No signal** appears on the screen, adjust the PC output to a format listed in the **Monitor Display Specifications** table.
- The synchronization input form for Horizontal and Vertical frequencies is separate.

#### DPM (Display Power Management) mode

If the PC goes to power saving mode, the monitor automatically switches to DPM mode.  
If you don't use the PC cable provided, DPM mode may not work.

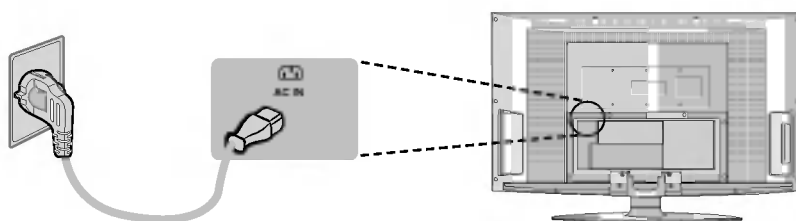
- DPM mode is not available in HDMI PC mode.

### ■ DTV

| Mode  | Terminal | Component | DVI (DTV) | HDMI (DTV) |
|-------|----------|-----------|-----------|------------|
| 480i  |          | o         | x         | x          |
| 576i  |          | o         | x         | x          |
| 480p  |          | o         | o         | o          |
| 576p  |          | o         | o         | o          |
| 720p  |          | o         | o         | o          |
| 1080i |          | o         | o         | o          |

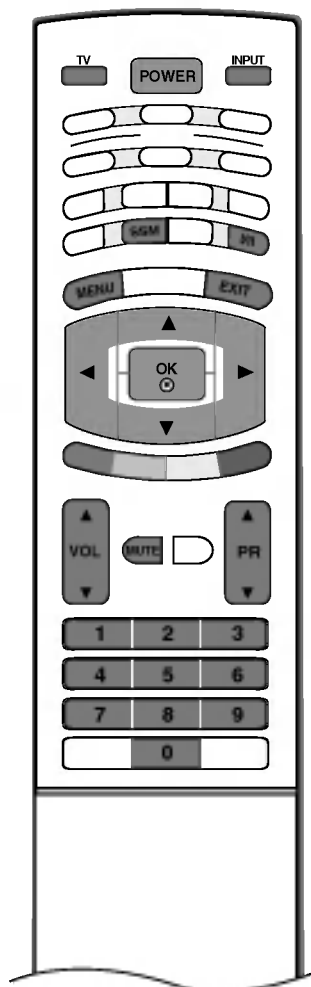
## Power Cord Connection

- Connect the power cord correctly as shown.



# Operation

## Basic Operation



### Turning On/Off the TV

- 1 First, make all equipment connections. Connect the AC power cord into the TV, then plug the power cord into a wall outlet. Press the **POWER** button located on the TV to turn on the TV. The power indicator will light.
  - In the standby mode, press the **POWER**, **PR ▲ / ▼**, **TV**, **INPUT** or number buttons on the remote control to turn on the TV.
- 2 If you want to turn the TV off, press the **POWER** button located on the remote control. If you intend to be away on vacation, disconnect the plug from the wall outlet.

### Volume Adjustment

- 1 Press the **VOL ▲ / ▼** button to adjust the volume.
- 2 If you want to switch the sound off, press the **MUTE** button. You can cancel this function by pressing the **MUTE**, **VOL ▲ / ▼**, **II** or **SSM** button.

### Programme selection

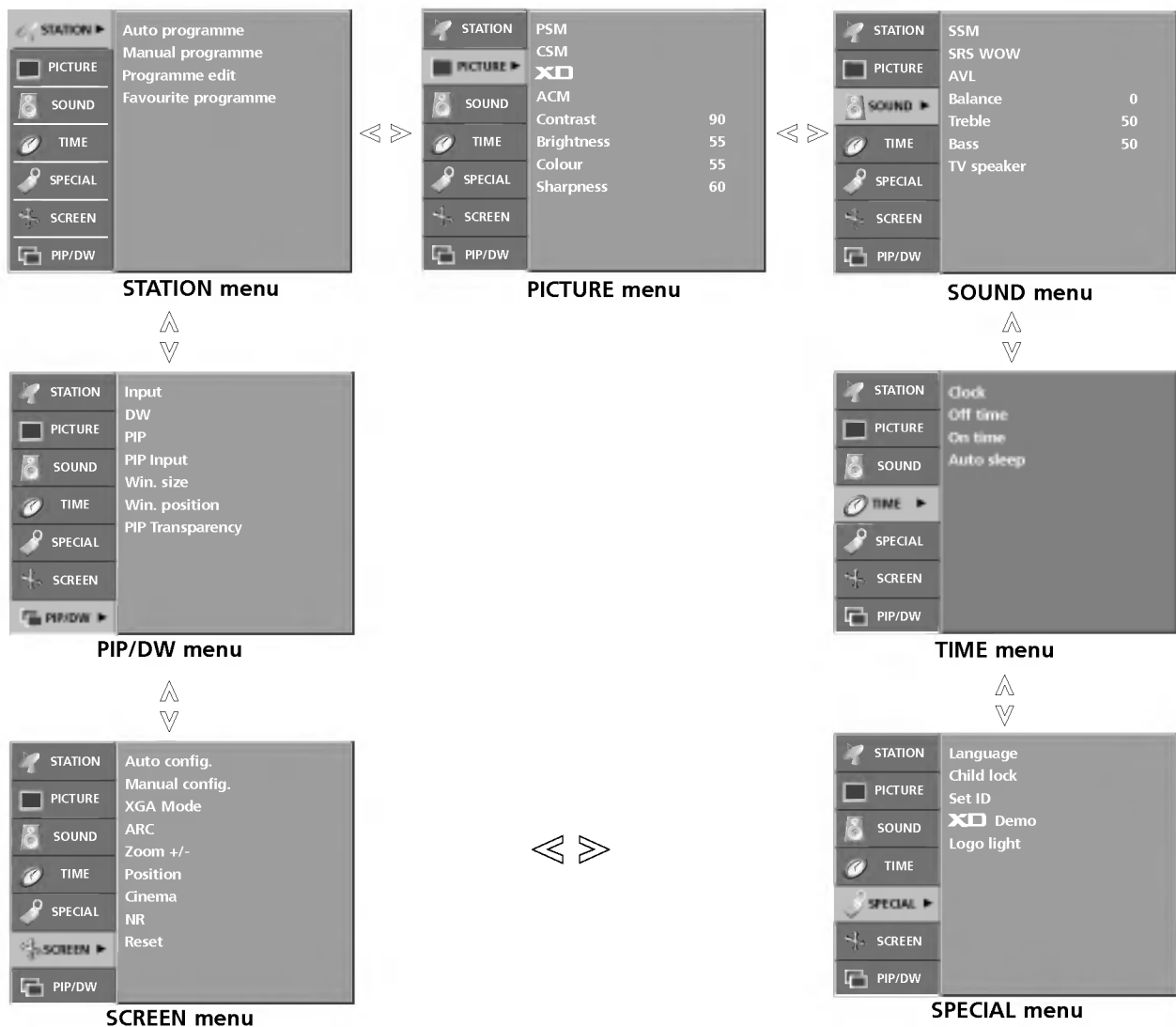
- 1 Press the **PR ▲ / ▼** or **NUMBER** buttons to select a programme number.

### On screen language selection

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Special** menu.
- 2 Press the **►** button and then **▲ / ▼** button to select **Language**.
- 3 Press the **►** button and then **▲ / ▼** button to select your desired language. All the on screen displays will appear in the selected language.
- 4 Press the **OK** button.
- 5 Press the **EXIT** button to return to TV viewing.

## How to adjust the OSD screen

- 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 Change the setting of an item in the sub or pull-down menu with **◀ / ▶** button.  
You can move to the higher level menu by pressing the **OK** or **MENU** button.



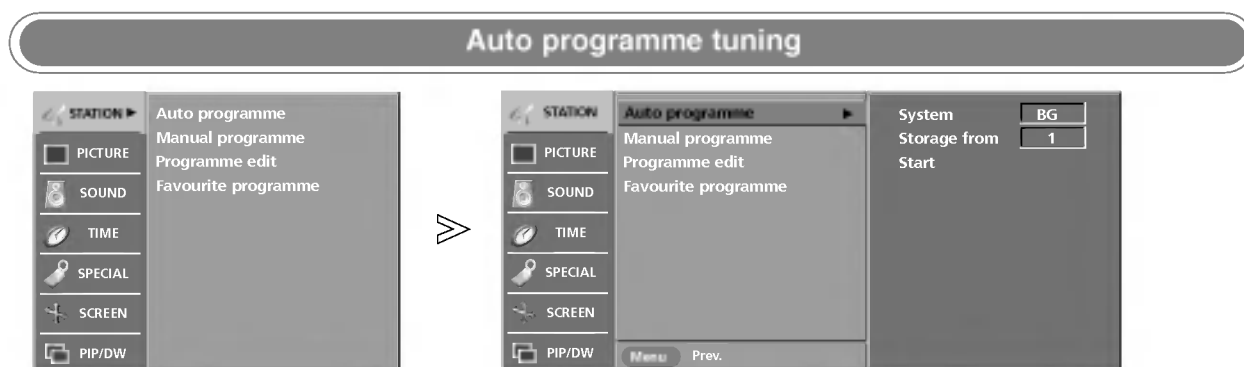
### Note

- The OSD (On Screen Display) function enables you to adjust the screen status conveniently since it provides graphical presentation.
- In this manual, the OSD (On Screen Display) may be different from your TV's because it is just example to help the TV operation.
- In the teletext mode, menus are not displayed



## Setting up TV stations

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



- 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 and then ▲ / ▼ button to select **System**.
- 4 Press the ◀ / ▶ button to select a TV system menu;  
BG : PAL B/G, SECAM B/G (Europe/East Europe)  
I : PAL I/II (U.K./Ireland)  
DK : PAL D/K, SECAM D/K (East Europe)  
M : (USA/Korea/Philippines)
- 5 Press the ▲ / ▼ button to select **Storage from**.
- 6 Press the ◀ / ▶ button or NUMBER buttons to select the beginning programme number. If you use NUMBER buttons, any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- 7 Press the ▲ / ▼ button to select **Start**.
- 8 Press the ► button to begin auto programming.  
All receivable stations are stored.

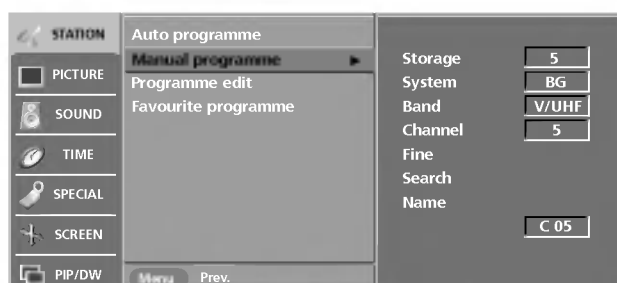
**Option:** In Australia, if no station name can be assigned to a station, the channel number is assigned and stored as ----- followed by a number see 'Assigning a station name' section to assign the station name.

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.

- 9 Press the **EXIT** button to return to normal TV viewing.

## Manual programme tuning



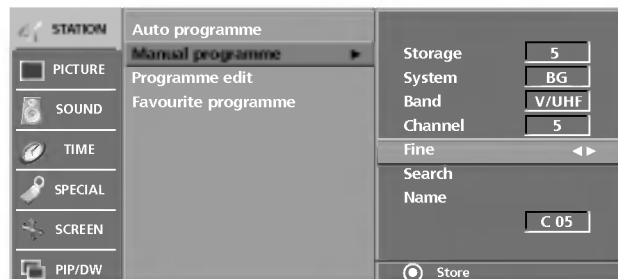
- *Manual programme lets you manually tune and arrange the stations in whatever order you desire.*

- 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 and then **▲ / ▼** button to select **Storage**.
- 4 Press the **◀ / ▶** button or **NUMBER** buttons to select the desired programme number (0 to 99). If you use **NUMBER** buttons, any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- 5 Press the **▲ / ▼** button to select **System**.
- 6 Press the **◀ / ▶** button to select a TV system menu;
  - BG** : PAL B/G, SECAM B/G (Europe/East Europe)
  - I** : PAL I/II (U.K./Ireland)
  - DK** : PAL D/K, SECAM D/K (East Europe)
  - M** : (USA/Korea/Philippines)
- 7 Press the **▲ / ▼** button to select **Band**.
- 8 Press the **◀ / ▶** button to select **V/UHF** or **Cable**.
- 9 Press the **▲ / ▼** button to select **Channel**.
- 10 You can select the desired programme number with the **◀ / ▶** button or number buttons. If possible, select the programme number directly with the number buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- 11 Press the **▲ / ▼** button to select **Search**.
- 12 Press the **◀ / ▶** button to commence searching. If a station is found the search will stop.
- 13 Press the **OK** button to store it.
- 14 To store another station, repeat steps 3 to 13.
- 15 Press the **EXIT** button to return to normal TV viewing.



# Setting up TV stations

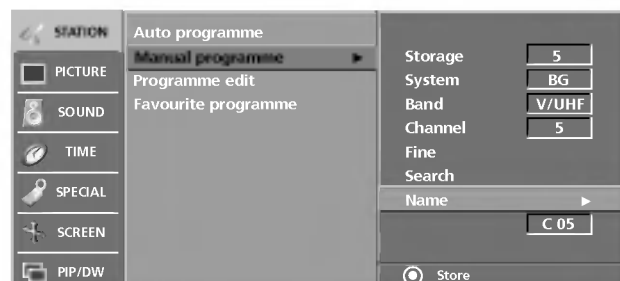
## Fine tuning



- Normally fine tuning is only necessary if reception is poor.

- 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 and then **▲ / ▼** button to select **Fine**.
- 4 Press the **◀ / ▶** button to fine tune for the best picture and sound.
- 5 Press the **OK** button to store it.
- 6 Press the **EXIT** button to return to normal TV viewing.

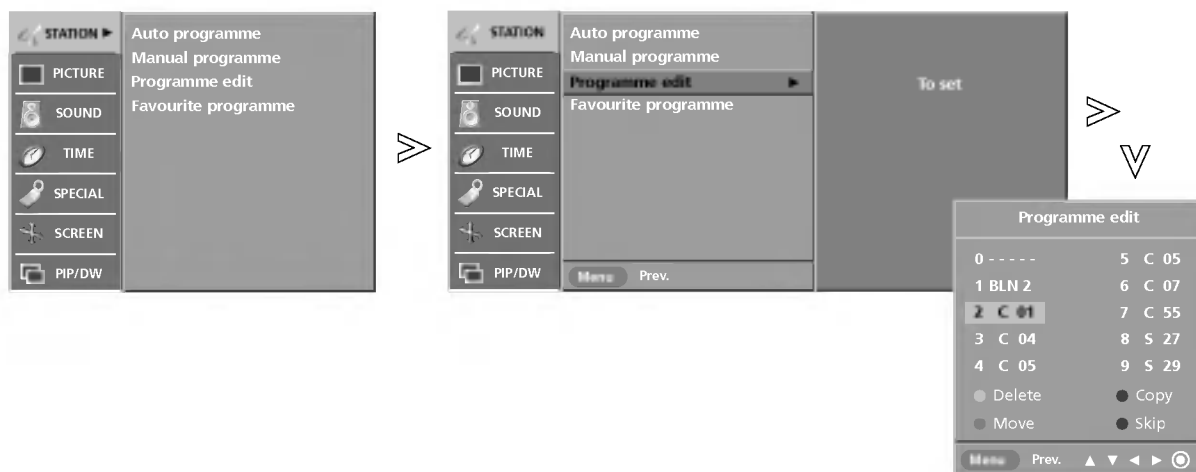
## Assigning a station name



- 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 and then **▲ / ▼** button to select **Name**.
- 4 Press the **▶** button and then **▲ / ▼** button. You can use a blank, +, -, the number **0** to **9** and the alphabet **A** to **Z**.
- 5 Press the **◀ / ▶** button to select the position and make your choice of the second character, and so on.
- 6 Press the **OK** button to store it.
- 7 Press the **EXIT** button to return to normal TV viewing.

## 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 **▲ / ▼ / ◀ / ▶** 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 **▲ / ▼ / ◀ / ▶** button.
2. Press the **GREEN** button.  
All the following programmes are shifted down one position.

### ■ Moving a programme

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

### ■ Skipping a programme number

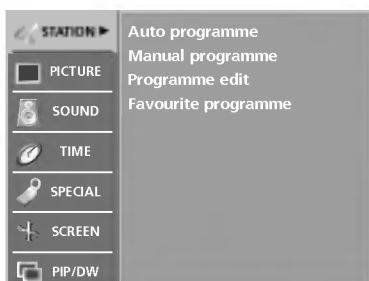
1. Select a programme number to be skipped with the **▲ / ▼ / ◀ / ▶** button.
2. Press the **BLUE** button. The skipped programme turns to blue.
3. Press the **BLUE** button again to release the skipped programme.  
When a programme number is skipped it means that you will be unable to select it using 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.

- 4 Press the **EXIT** button to return to normal TV viewing.

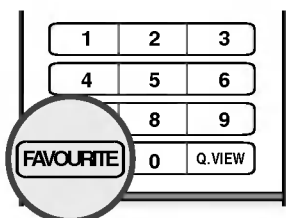


# Setting up TV stations

## Favourite programme



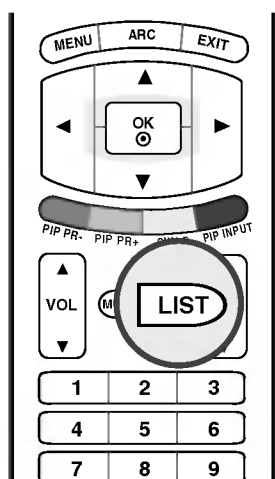
- This function lets you select your favourite programmes directly.
- Repeatedly press the **FAVOURITE** button to select stored favourite programmes.



- 1 Press the **MENU** button and then **▲ / ▼** button to select the **STATION** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Favourite programme**.
- 3 Press the **▶** button.
- 4 Press the **▲ / ▼** button to select -- ----.
- 5 Select a desired programme with the **◀ / ▶** button or **NUMBER** buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. **05** for 5.
- 6 To store another programme, repeat steps 4 to 5. You can store up to 8 programmes.
- 7 Press the **EXIT** button to return to normal TV viewing.

## Calling the programme table

- You can check the programmes stored in the memory by displaying the programme table.



### ■ Displaying programme table

Press the **LIST** button to display the **Programme table** menu. The programme table appears on the screen. One programme table contains ten programmes as below.

|         |        |
|---------|--------|
| 0 ----  | 5 C 05 |
| 1 BLN 2 | 6 C 07 |
| 2 C 01  | 7 C 55 |
| 3 C 04  | 8 S 27 |
| 4 C 05  | 9 S 29 |



### Note

- a. You may find some blue programmes. They have been set up to be skipped by auto programming or in the programme edit mode.
- b. Some programmes with the channel number shown in the programme table indicate there is no station name assigned.

### ■ Selecting a programme in the programme table

Select a programme with the **▲ / ▼ / ◀ / ▶** button. Then press the **OK** button. The set switches to the chosen programme number.

### ■ Paging through a programme table

There are 10 programme table pages in which contain 100 programmes. Pressing the **▲ / ▼ / ◀ / ▶** button repeatedly turns the pages.

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

# Picture adjustment

## PSM (Picture Status Memory)

- This function adjusts the set for the best picture appearance.
- When adjusting **Contrast**, **Brightness**, **Colour**, **Sharpness**, and **Tint** (NTSC only) manually, PSM automatically changes to **User**.
- **Dynamic**, **Standard**, and **Mild** are programmed for optimum picture reproduction at the factory and cannot be changed.
- When the Intelligent eye function is on, picture is automatically adjusted to most suitable according to the surrounding conditions.
- You can also use the **PICTURE** menu to adjust **PSM**.



- 1 Press the **PSM** button repeatedly to select the picture appearance setup option as shown below: **Intelligent Eye**, **Dynamic**, **Standard**, **Mild**, or **User**.

## CSM (Colour Status Memory)

|         |               |
|---------|---------------|
| STATION | PSM           |
| PICTURE | CSM           |
| SOUND   | ACM           |
| TIME    | Contrast 90   |
| SPECIAL | Brightness 55 |
| SCREEN  | Colour 55     |
| PIP/DW  | Sharpness 60  |



|         |               |                                                                                                                                                                                         |
|---------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STATION | PSM           |                                                                                                                                                                                         |
| PICTURE | CSM           |                                                                                                                                                                                         |
| SOUND   | ACM           |                                                                                                                                                                                         |
| TIME    | Contrast 90   |                                                                                                                                                                                         |
| SPECIAL | Brightness 55 |                                                                                                                                                                                         |
| SCREEN  | Colour 55     |                                                                                                                                                                                         |
| PIP/DW  | Sharpness 60  |                                                                                                                                                                                         |
|         |               | Cool<br><input checked="" type="checkbox"/> Normal<br>Warm<br>User<br>Red <input type="text" value="0"/><br>Green <input type="text" value="0"/><br>Blue <input type="text" value="0"/> |

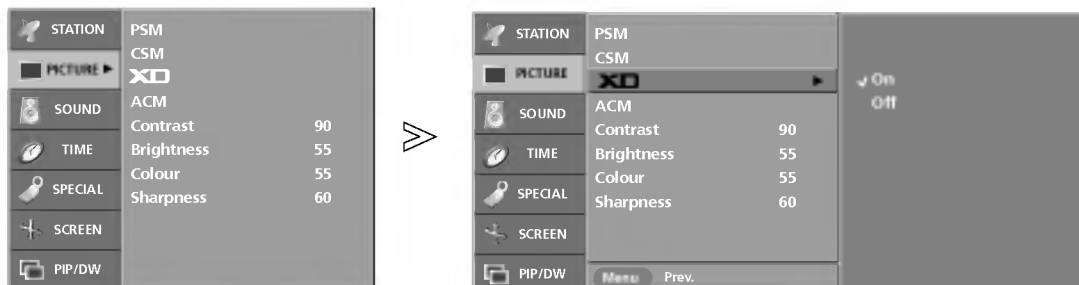
- For initialized values (reset to default settings), select the **Normal** option.
- When adjusting colour temperature options (**Red**, **Green**, or **Blue**) manually, **CSM** automatically changes to **User**.

- 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 **Cool**, **Normal**, **Warm**, or **User**.
  - **Cool** : To see less intense colors with more blue.
  - **Normal** : To initialize values (reset to default settings).
  - **Warm** : To enhance hotter colors such as red.
  - **User** : To adjust red, green, blue to any colour temperature you prefer.
    1. Press the **▲ / ▼** button to select **User**.
    2. Press the **▶** button and then **▲ / ▼** button to select **Red**, **Green**, or **Blue**.
    3. Press the **◀ / ▶** button to make appropriate adjustments.

- 4 Press the **EXIT** button to return to normal TV viewing.

## Picture adjustment

### XD Function



- **XD** is LG's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.
- When selecting **PSM** options (**Dynamic**, **Standard**, or **Mild**), **XD** automatically changes to **On**. If **XD** setting is **Off**, **PSM** is automatically change to **User** and **ACM** function is not available.
- **XD** function is not available in DVI 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 **EXIT** button to return to normal TV viewing.

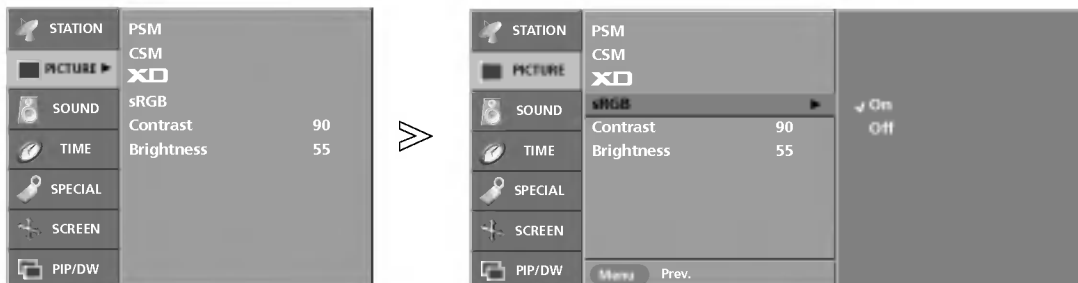
### ACM (Active Colour Management)



- Adjust the **ACM** to select the desired skin colour option.
- **ACM** function is available in all modes except DVI 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 **ACM**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Fleshtone**, **Greentone**, or **Bluetone**.
- 4 Press the **◀ / ▶** button to make appropriate adjustments.
- 5 Press the **EXIT** button to return to normal TV viewing.

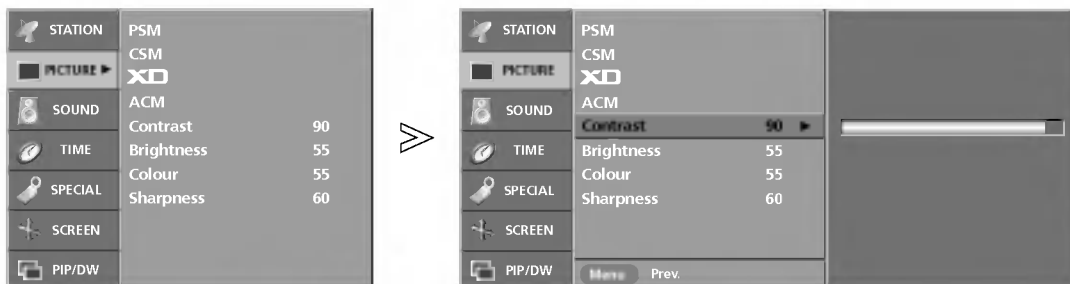
## sRGB



- When the set was connected to external equipment with sRGB function, it adjusted a colour difference to display the equal image each other.
- **sRGB** function is available in DVI 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 **sRGB**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to normal TV viewing.

## Manual Picture Adjustment



- You can adjust picture **Contrast**, **Brightness**, **Colour**, **Sharpness** and **Tint** (NTSC 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 the desired picture option (**Contrast**, **Brightness**, **Colour**, or **Sharpness**).
- 3 Press the **◀ / ▶** button to make appropriate adjustments.
- 4 Press the **EXIT** button to return to normal TV viewing.



### Note

- Only **Contrast** and **Brightness** are displayed in PC mode.



# Sound adjustment

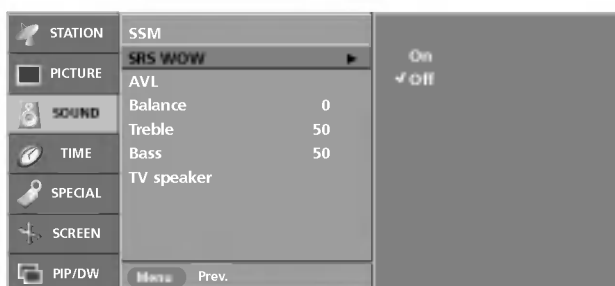
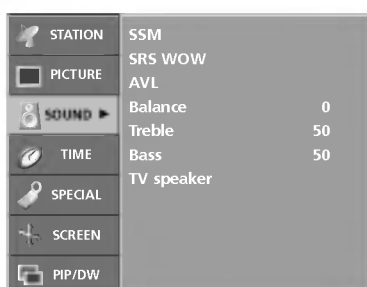
## SSM (Sound Status Memory)

- **SSM** lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the program content.
- When adjusting sound equalizer manually, **SSM** automatically switches to **User**.
- **Flat, Music, Movie, and Sports** are preset for good sound quality at the factory and are not adjustable.
- You can also use the **SOUND** menu to adjust **SSM**.



- 1 Press the **SSM** button repeatedly to select the picture appearance setup option as shown below: **Flat, Music, Movie, Sports, or User**.

## SRS WOW



- The **SRS WOW** function plays back the mono or stereo sound input with the dynamic surround effects. It will provide rich and profound sound tone.
- If you set the **SRS WOW ON**, **Treble/Bass** can not be adjusted.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SOUND** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **SRS WOW**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to normal TV viewing.



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technology is incorporated under license from SRS Labs, Inc.

## AVL (Auto Volume leveler)



- **AVL** 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 **EXIT** button to return to normal TV viewing.

## Manual Sound Adjustment



- Adjust the sound to suit your taste and room situations.

- 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 option (**Balance**, **Treble**, or **Bass**).
- 3 Press the **▶** button and then **◀ / ▶** button to make desired adjustment.
- 4 Press the **EXIT** button to return to normal TV viewing.



## Sound adjustment

### TV Speaker

|         |            |
|---------|------------|
| STATION | SSM        |
| PICTURE | SRS WOW    |
| AVL     |            |
| SOUND ▶ |            |
| Balance | 0          |
| Treble  | 50         |
| Bass    | 50         |
| TIME    |            |
| SPECIAL | TV speaker |
| SCREEN  |            |
| PIP/DW  |            |

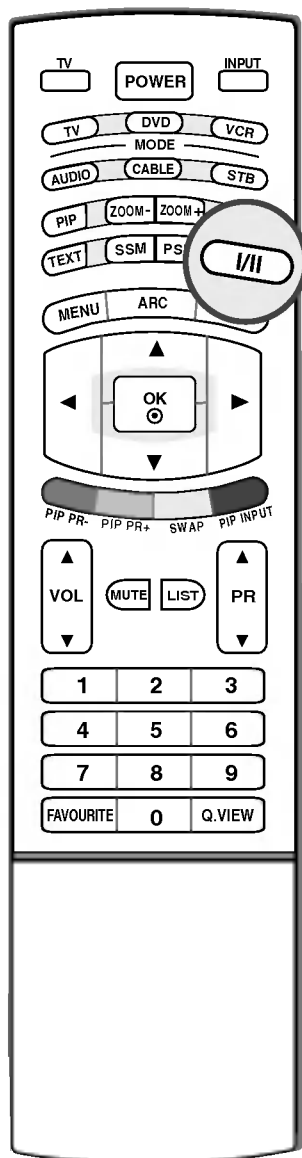


|         |              |             |
|---------|--------------|-------------|
| STATION | SSM          |             |
| PICTURE | SRS WOW      |             |
| AVL     |              |             |
| SOUND   |              |             |
| Balance | 0            |             |
| Treble  | 50           |             |
| Bass    | 50           |             |
| TIME    |              |             |
| SPECIAL | TV Speaker ▶ | ✓ On<br>Off |
| SCREEN  |              |             |
| PIP/DW  | Menu Prev.   |             |

- You can adjust internal speaker status.
- If you want to use your external hi-fi stereo system, turn off the internal speakers of the set.

- 1 Press the **MENU** button and then ▲ / ▼ button to select the **SOUND** menu.
- 2 Press the ▶ button and then ▲ / ▼ button to select **TV Speaker**.
- 3 Press the ▶ button and then ▲ / ▼ button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to normal TV viewing.

## I/II



### ■ 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 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 loudspeakers. **DUAL II** sends the secondary broadcast language to the loud-speakers. **DUAL I+II** sends a separate language to each loudspeaker.

### ■ NICAM reception (This feature is not available in all countries.)

If your set is equipped with the receiver for NICAM reception, the high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

Sound output can be selected according to the type of received broadcast as follows by pressing the I/II button repeatedly.

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

### ■ Sound output selection

In **AV**, **S-Video**, **Component 1**, **Component 2**, **DVI PC/DVI DTV**, or **HDMI PC/HDMI DTV** mode, you can select output sound for the left and right loudspeakers. Repeatedly press the I/II button to select the sound output.

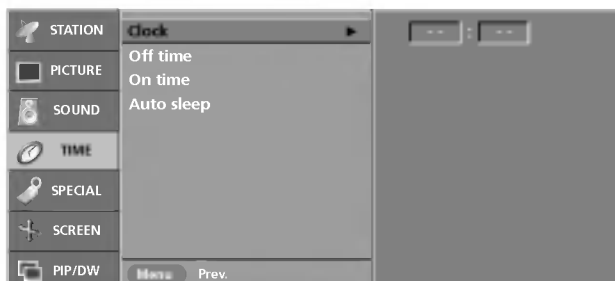
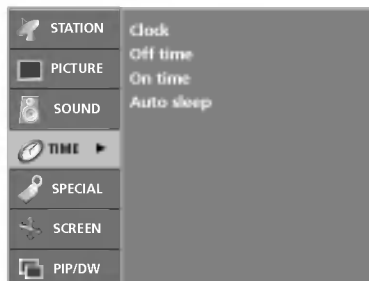
**L+R** : Audio signal from audio L input is sent to left loud-speaker and audio signal from audio R input is sent to right loud-speaker.

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

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

# Time Menu

## Clock Setup

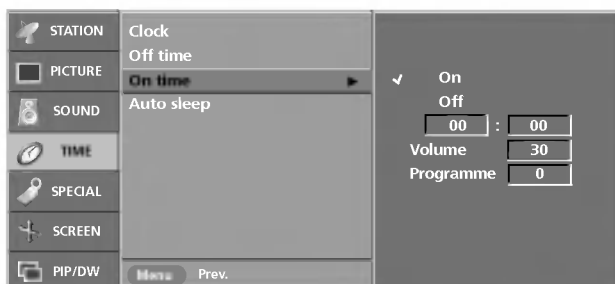
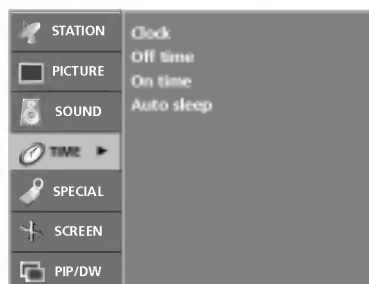


- You must set the time correctly before using on/off time function.

- If current time setting is erased by a power failure or the set is unplugged, reset the clock.

- 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 **▲ / ▼** button to set the hour.
- 4 Press the **▶** button and then **▲ / ▼** button to set the minutes.
- 5 Press the **EXIT** button to return to normal TV viewing.

## On/Off time



- The off time automatically switches the set to standby at the pre-set time.

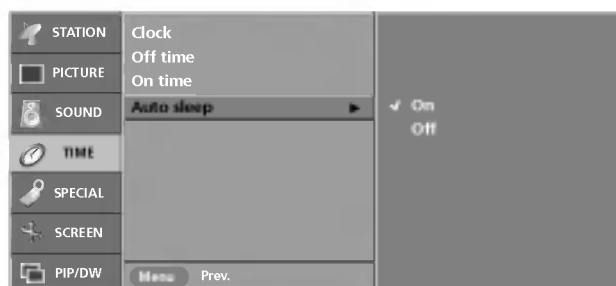
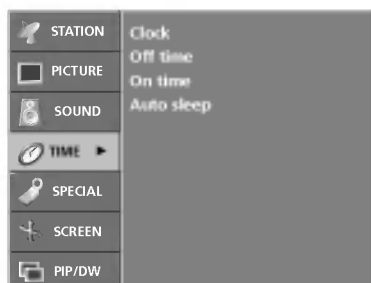
- 1 Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Off time** or **On time**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **On**.
  - To cancel **On/Off time** function, press the **▲ / ▼** button to select **Off**.
- 4 Press the **▶** button and then **▲ / ▼** button to set the hour.
- 5 Press the **▶** button and then **▲ / ▼** button to set the minutes.
- 6 **Only On time function**; Press the **▶** button and then **▲ / ▼** button to adjust volume level and programme number.
- 7 Press the **EXIT** button to return to normal TV viewing.



### Note

- a. In the event of power interruption (disconnection or power failure), the clock must be reset.
- b. Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.
- c. Once the **On** or **Off Time** is set, these functions operate daily at the preset time.
- d. **Off Time** function overrides **On Time** function if they are set to the same time.
- e. The set must be in standby mode for the **On Time** to work.

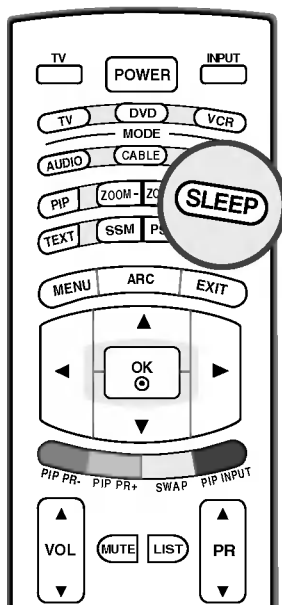
## Auto Sleep



- If set to on and there is no input signal, the TV turns 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 **EXIT** button to return to normal TV viewing.

## Sleep Timer



- 1 Press the **SLEEP** button repeatedly to select the number of minutes. First the '---' option appears on the screen, followed by the following sleep timer options: 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
- 2 The timer begins to count down from the number of minutes selected.
- 3 To view the remaining sleep time, press the **SLEEP** button once.
- 4 To cancel the sleep time, repeatedly press the **SLEEP** button until the display '---' appears.



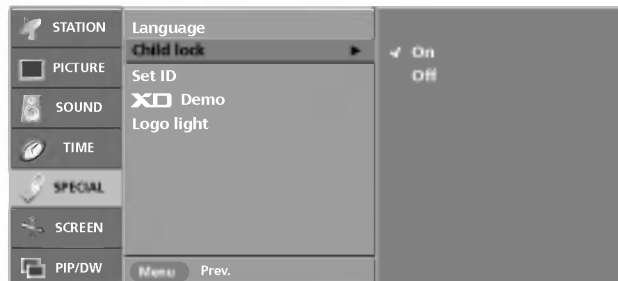
### Note

- a. To view the remaining sleep time, press the **SLEEP** button once.
- b. When you switch the set off, the set releases the preset sleep time.



# 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.

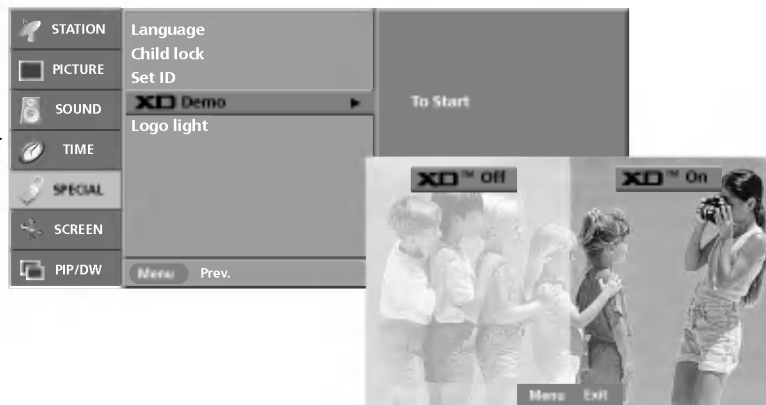
- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SPECIAL** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Child lock**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to normal TV viewing.



### Note

- a. This set programmed to remember which option it was last set to even if you turn the set off.
- b. In **Child lock 'On'**, if the set is turned off, press the **POWER**, **INPUT**, **PR ▲ / ▼** button on the set or **POWER**, **TV**, **INPUT**, **PR ▲ / ▼** or **NUMBER** buttons on the remote control.
- c. 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 set.

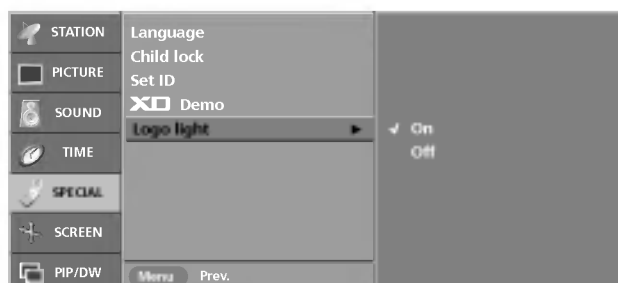
## XD Demo



- Use it to see the difference between XD demo on and XD Demo off.
- **XD Demo** function is not available in DVI 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 start **XD Demo**.
- 4 To stop **XD Demo**, press the **EXIT** button.

## Lightening Logo

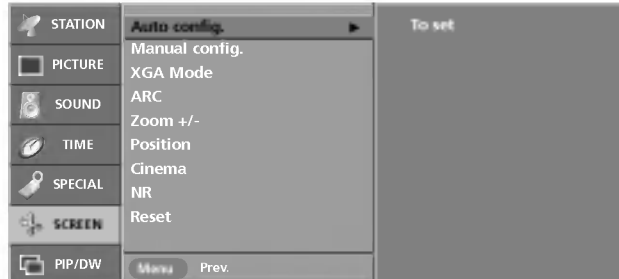
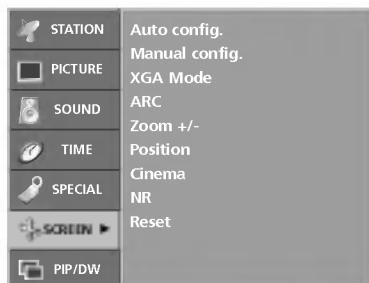


- If you select on, logo of TV front panel turns the lamp on.

- 1** Press the **MENU** button and then ▲ / ▼ button to select the **SPECIAL** menu.
- 2** Press the ► button and then ▲ / ▼ button to select **Logo light**.
- 3** Press the ► button and then ▲ / ▼ button to select **On** or **Off**.
- 4** Press the **EXIT** button to return to normal TV viewing.

# ✚ Screen Menu

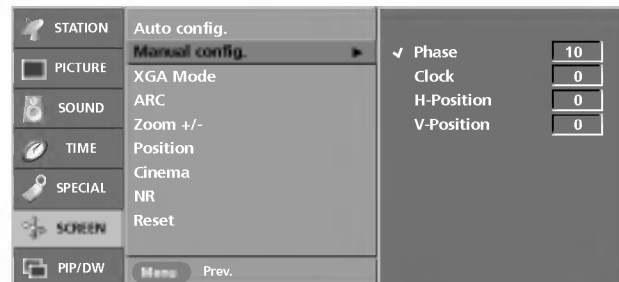
## Auto Configure



- **Auto config.** function is available in DVI PC (RGB) mode only.
- Automatically adjusts picture position and minimizes image shaking.
- After adjustment, if the image is still not correct, your TV is functioning properly but needs further adjustment.
- Automatically adjusts the screen position, clock, and phase. (The displayed image will disappear for a few seconds while Auto-configuration is in progress.)

- 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 configure**.
  - If the position of the image is still not correct, try Auto adjustment again.

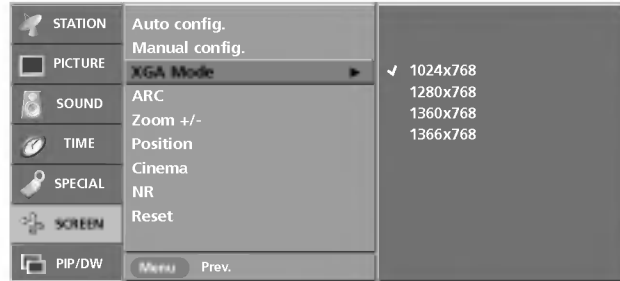
## Manual Configure



- **Manual config.** function is available in DVI PC (RGB) or Component (480p, 576p, 720p, 1080i) mode.
- 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 **Clock**.
- In **Component [480i, 576i]** mode, **H-position/V-Position** function is not available.

- 1 Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
- 2 Press the **▶** button and then use **▲ / ▼** button to select **Manual config.**.
- 3 Press the **▶** button and then use **▲ / ▼** button to select **Phase**, **Clock**, **H-Position**, or **V-Position**.
  - **Phase** : This function allows you to remove any horizontal noise and clear or sharpen the image of characters.
  - **Clock** : This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.
  - **H-Position / V-Position** : This function is to adjust picture to left/right and up/down as you prefer.
- 4 Press the **◀ / ▶** button to make appropriate adjustments.
- 5 Press the **EXIT** button to return to normal TV viewing.

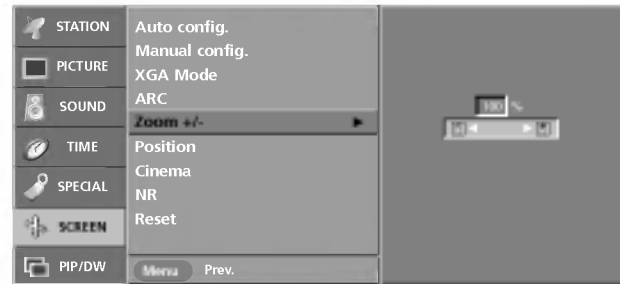
## XGA Mode



- **XGA Mode** function is available in DVI PC (RGB) mode and XGA/WXGA mode (60Hz) only.
- For more improved or better picture quality, select the same mode corresponding to computer resolution.

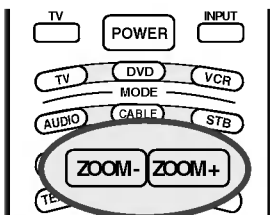
- 1 Press the **MENU** button and then use **▲/▼** button to select the **SCREEN** menu.
- 2 Press the **▶** button and then use **▲/▼** button to select **XGA Mode**.
- 3 Press the **▶** button and then use **▲/▼** button to select desired mode. From this point on, the adjustment starts.

## Picture Size Zoom



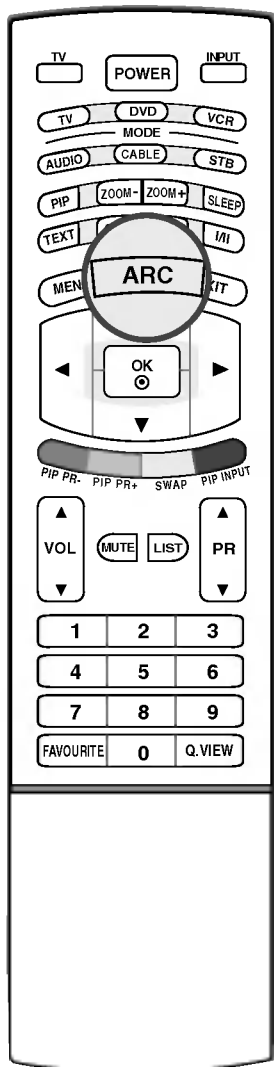
- When enlarging or reducing the picture, the screen may display unnatural picture.
- You can also enlarge or reduce the picture size with **ZOOM -/ZOOM +** on the remote control and then adjust the main picture position with the **▲/▼/◀/▶** buttons in enlarged picture mode.
- **Zoom +/-** function is not available in DVI PC mode.

- 1 Press the **MENU** button and then use **▲/▼** button to select the **SCREEN** menu.
- 2 Press the **▶** button and then use **▲/▼** button to select **Zoom +/-**.
- 3 Press the **▶** button and then **◀/▶** button to enlarge or reduce the picture size.
  - The adjustment range of zoom is 100~300.
- 4 Press the **EXIT** button to return to normal TV viewing.



# ✚ Screen Menu

## Picture format (ARC)



- You can watch TV in various picture formats; **Spectacle**, **Full** (This feature is not available in all countries.), **Original**, **4:3**, **16:9**, **14:9**, **Zoom**. Repeatedly press the **ARC** button to select your desired picture format.
- You can also use the **SCREEN** menu to adjust **ARC**.

### Spectacle

When your TV receives the wide screen signal, it will lead you to adjust the picture horizontally, in a nonlinear proportion, to fill the entire screen.

### Full (This feature is not available in all countries.)

When your TV receives the wide screen signal, it 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.

### 4:3

This picture format is 4 to 3 of general TV.

### 16:9

You can enjoy the cinema (the picture format of 16:9) or general TV programme through the 16:9 mode.

The screen 16:9 is viewed just like that but the screen 4:3 is magnified to the left and right so that the screen 16:9 is full.

### 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 upper / lower and left / right.

### Zoom

You can enjoy the cinema in a vast screen through the Zoom mode.

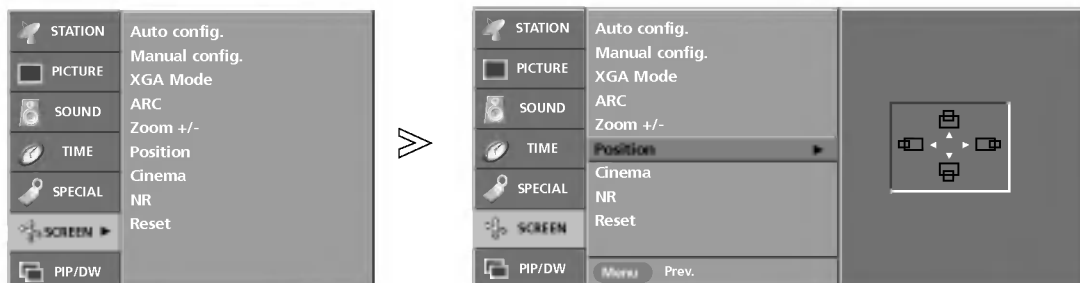
The screen 4:3 is magnified to the upper / lower and left / right sides so that the screen 16:9 is full. The bottom and top of the picture may be lost.



### Note

- In **PC (DVI or HDMI)** mode only **16:9** and **4:3** aspect ratios are available.
- In the **DW (Double Window)** mode, ARC function isn't available.
- In **Component** mode only **4:3**, **16:9** and **Zoom** aspect ratios are available.
- There might be uncomfortable in full mode. Then change into other mode.

## Screen Position



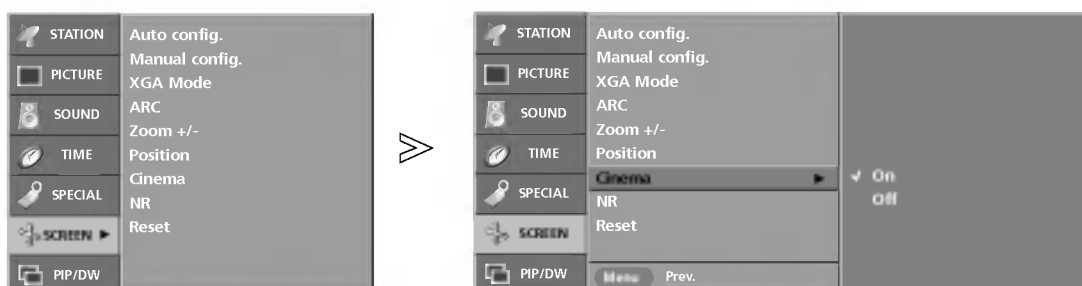
- When screen is enlarged, you can change the position of the picture.

- **Position** function is not available in DVI PC mode.

- **Position** function is available after adjusting **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 **Position**.
- 3 Press the **►** button and then **▲/▼/◀/▶** button to adjust the position.
- 4 Press the **EXIT** button to return to normal TV viewing.

## Cinema



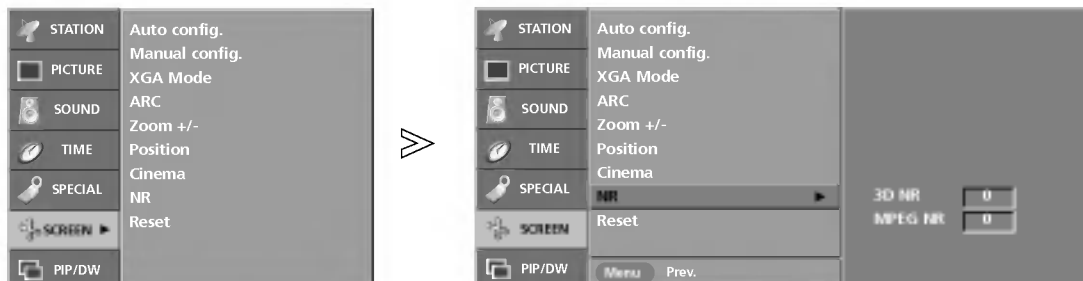
- When you watch the movie, this function adjusts the set to the best picture appearance.

- **Cinema** function is available in **TV, AV, S-Video, or Component (480i, 576i)** mode.

- 1 Press the **MENU** button and then use **▲/▼** button to select the **SCREEN** menu.
- 2 Press the **►** button and then use **▲/▼** button to select **Cinema**.
- 3 Press the **►** button and then **▲/▼** button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to normal TV viewing.

## Screen Menu

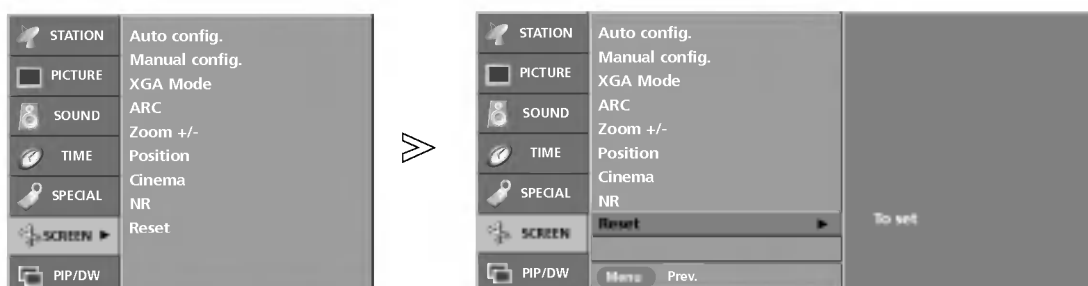
### NR (Noise Reduction)



- You can select **3D NR** or **MPEG NR** to reduce the picture noise which may appear on the screen during watching the TV.
- This function is not available for use in **DVI PC**, **HDMI PC** mode.
- **3D NR** is not available for use in **Component**, **DVI DTV**, **HDMI DTV** mode.

- 1 Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
- 2 Press the **▶** button and then use **▲ / ▼** 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 **EXIT** button to return to normal TV viewing.

### Reset to original factory value (Initializing)

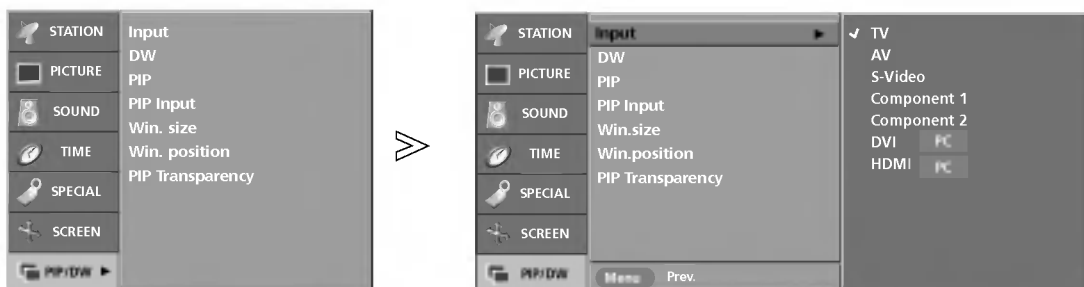


- You can initialize Zoom +/-, Position, Manual Config., PIP size, PIP position and sub picture size for twin picture.
- This function operates in every mode. To initialize the adjusted value.

- 1 Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
- 2 Press the **▶** button and then use **▲ / ▼** button to select **Reset**.
- 3 Press the **▶** button to start **Reset**.  
The display **OK** will appear.

## PIP (Picture-In-Picture) / DW (Double Window) Menu

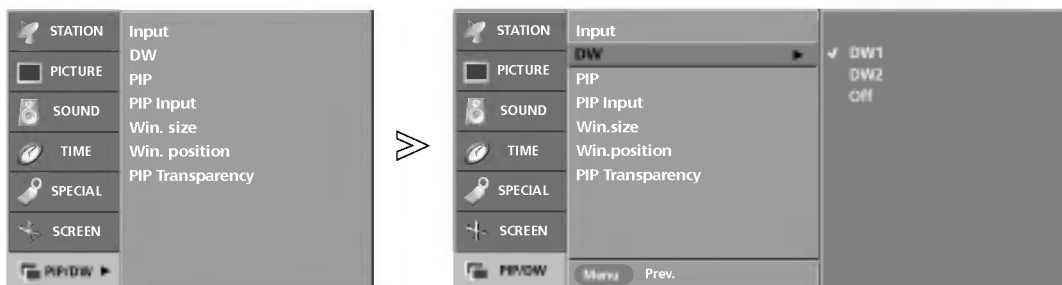
### Main Picture Input



- You can also select the desired input with the **INPUT** button on the remote control.

- 1 Press the **MENU** button and then use **▲** / **▼** button to select the **PIP/DW** menu.
- 2 Press the **▶** button and then use **▲** / **▼** button to select **Input**.
- 3 Press the **▶** button and then **▲** / **▼** button to select **TV**, **AV**, **S-Video**, **Component 1**, **Component 2**, **DVI PC/DVI DTV**, or **HDMI PC/HDMI DTV**.
- 4 Press the **EXIT** button to return to normal TV viewing.

### Watching DW/PIP



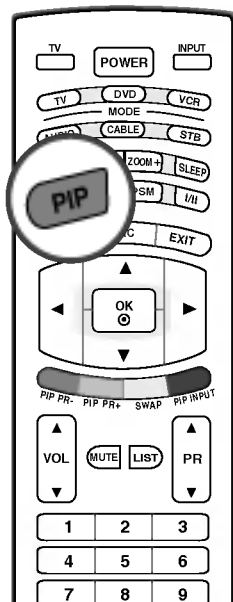
- **PIP** lets you view 2 different inputs (sources) on your TV screen at the same time. One source will be large, and the other source will show a smaller inset image.

- **DW (Double Window)** mode splits the screen into 2, allowing 2 picture sources to be shown on the TV screen at the same time. Each source is given half the screen.

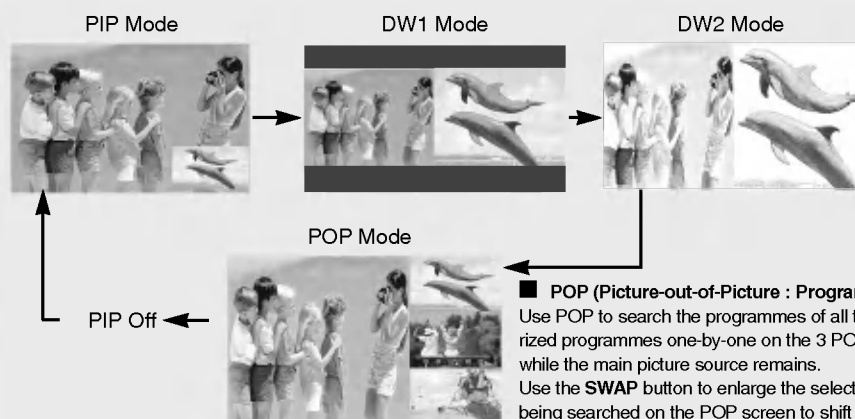
- You can also select the **DW/PIP** with the **PIP** button on the remote control.

- 1 Press the **MENU** button and then use **▲** / **▼** button to select the **PIP/DW** menu.
- 2 Press the **▶** button and then use **▲** / **▼** button to select **DW** or **PIP**.
- 3 Press the **▶** button and then **▲** / **▼** button to select the item.
- 4 Press the **EXIT** button to return to normal TV viewing.

# PIP (Picture-In-Picture) / DW (Double Window) Menu

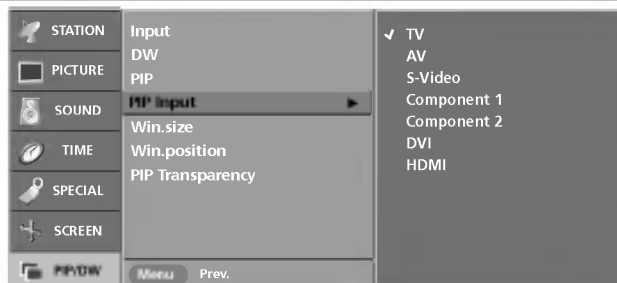


- Press the **PIP** button to access the sub picture. Each press of PIP changes the PIP options as shown below.  
You can hear the main picture sound in PIP mode. Exchange the main and sub picture to hear the sub picture sound.



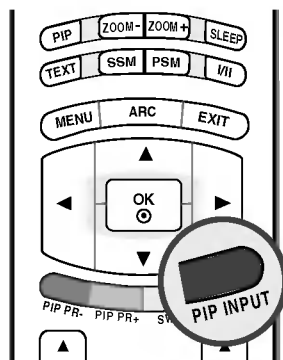
- POP (Picture-out-of-Picture : Programme scan)**  
Use POP to search the programmes of all the memorized programmes one-by-one on the 3 POP screen, while the main picture source remains.  
Use the **SWAP** button to enlarge the selected channel being searched on the POP screen to shift it for viewing on the Main picture.  
Note : Run **Auto programme** function before using POP mode.

## PIP Input



- You can also select the desired input for the sub picture with the **PIP INPUT** button on the remote control.

- Press the **MENU** button and then use **▲ / ▼** button to select the **PIP/DW** menu.
- Press the **▶** button and then use **▲ / ▼** button to select **PIP Input**.
- Press the **▶** button and then **▲ / ▼** button to select **TV**, **AV**, **S-Video**, **Component 1**, **Component 2**, **DVI**, or **HDMI**.
- Press the **EXIT** button to return to normal TV viewing.

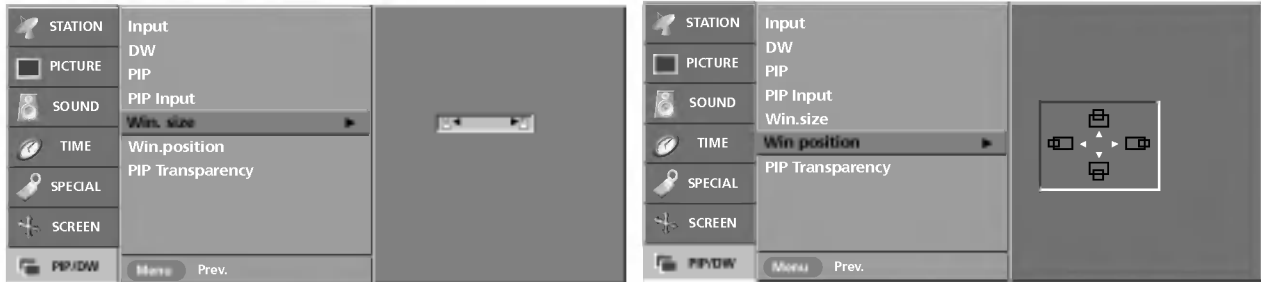


- Press the **PIP INPUT** button to select the input source for the sub picture.

| Main picture       | Sub picture                                                                          |     |
|--------------------|--------------------------------------------------------------------------------------|-----|
|                    | PIP/DW                                                                               | POP |
| TV                 | All (Except TV) - <b>32/26LX1R**</b> , <b>26LX2R**</b><br>All - <b>32LX2R** only</b> | X   |
| AV                 | All (Except AV)                                                                      | TV  |
| S-Video            | All (Except S-Video)                                                                 |     |
| Component 1        | All (Except Component 1)                                                             |     |
| Component 2        | All (Except Component 2)                                                             |     |
| DVI PC / DVI DTV   | All (Except DVI, HDMI)                                                               |     |
| HDMI PC / HDMI DTV | All (Except DVI, HDMI)                                                               |     |

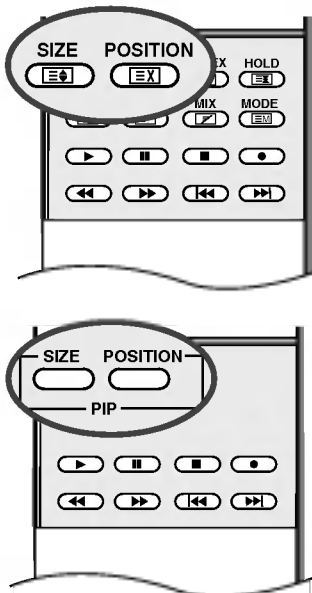
X : not available

## Win. Size/Position



- You can also adjust the **Win. size/Win. position** with the **SIZE/POSITION** button on the remote control.

- 1 Press the **MENU** button and then use **▲ / ▼** button to select the **PIP/DW** menu.
- 2 Press the **▶** button and then use **▲ / ▼** button to select **Win. size** or **Win. position**.
  - **Win. size** : Press the **◀ / ▶** button to adjust the sub picture size.
  - **Win. position** : Press the **▲ / ▼ / ◀ / ▶** button until desired position is achieved.
- 3 Press the **EXIT** button to return to normal TV viewing.



### ■ Sub Picture Size Adjustment



Press the **SIZE** button and then **◀ / ▶** button to adjust the sub picture size.

Using the **SIZE** button in DW1, DW2 modes, main and sub picture are adjusted simultaneously. Using the **SIZE** button in PIP mode, sub picture is adjusted.

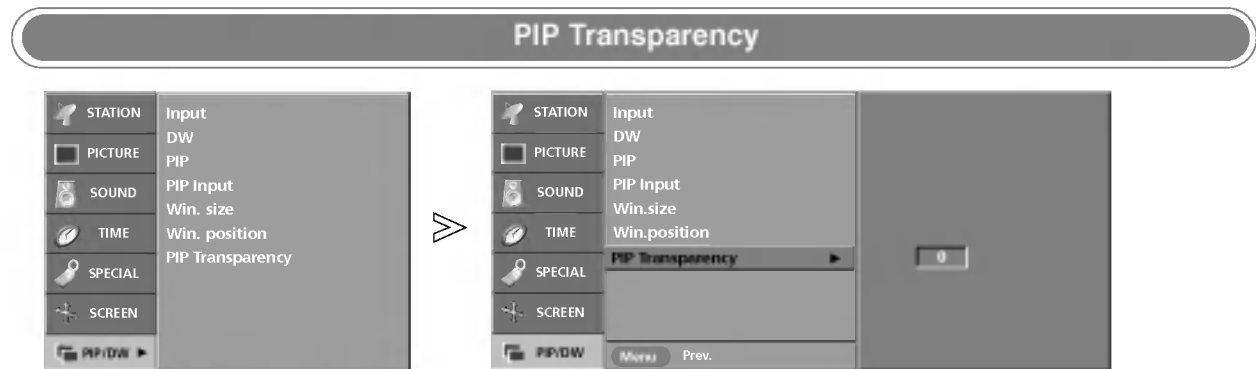
### ■ Moving the Sub Picture (PIP mode only)



Press the **POSITION** button.

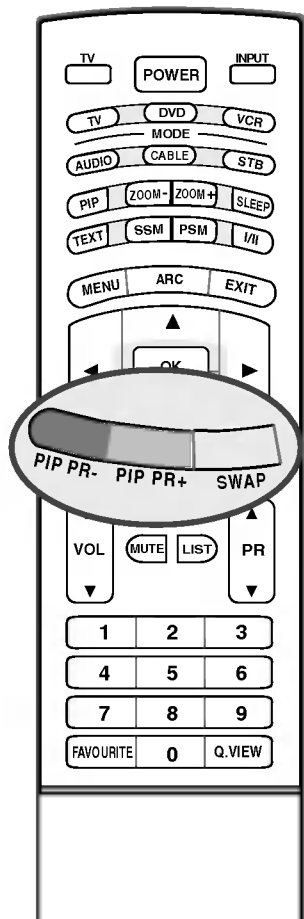
Repeatedly press the **▲ / ▼ / ◀ / ▶** button until desired position is achieved. The sub picture moves up/down or left/right.

## PIP (Picture-In-Picture) / DW (Double Window) Menu



- This function is to make the PIP clear or opaque.

- 1 Press the **MENU** button and then use ▲ / ▼ button to select the **PIP/DW** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **PIP Transparency**.
- 3 Press the ► button and then use ◀ / ▶ button to make appropriate adjustments.
  - The adjustment range of is 0~10.
- 4 Press the **EXIT** button to return to normal TV viewing.

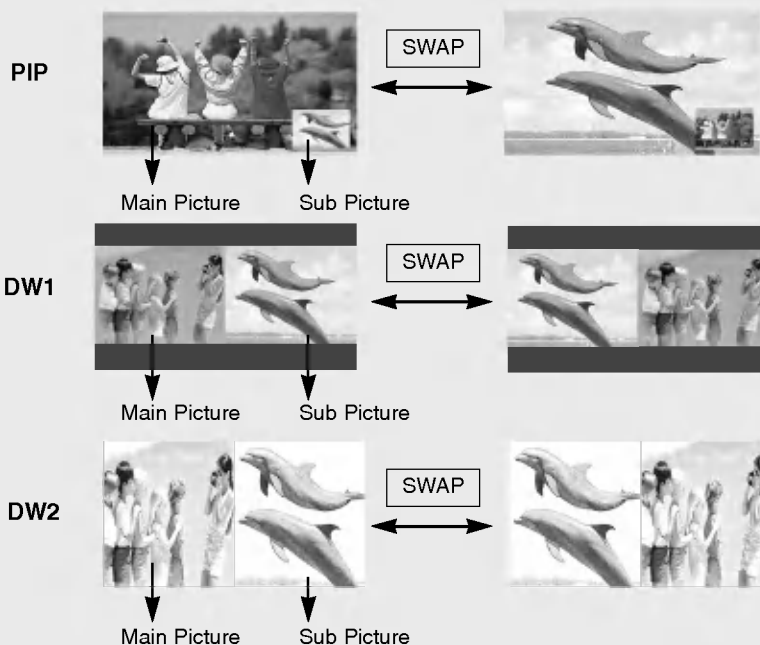


### ■ Programme Selection for Sub Picture

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

### ■ Swapping between main and sub pictures

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



### Note

- a. In some case of PIP/DW mode, picture quality can be different between main picture and sub picture. the sub picture may appear poor as compared to main picture.

# Teletext (This feature is not available in all countries)

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

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

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

## Switch on/off

Press the **TEXT** button to switch to teletext. The initial page or last page appears on the screen.

Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the **TEXT** 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 reenter the correct page number.
2. The **PR ▲ / ▼** buttons 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 **EM** button to switch to LIST mode.

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

1. Press a coloured button.
2. Using the **NUMBER** buttons, select the page you wish to programme.
3. Press the **OK** button. Then the selected page is stored as the selected page number by blinking once. From now on, you can select this page with the same coloured button.
4. The three other coloured buttons are programmed in this way.

## TOP text (This feature is not available in all countries)

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 **PR ▲** button can be used.
4. The red button permits to return to previous selection.  
Alternatively the **PR ▼** button can be used.

### ■ Direct page selection

Corresponding to the SIMPLE teletext mode, you can select a page by entering it as a three digit number using the **NUMBER** buttons in TOP mode.

## FASTEXT

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

### ■ Page selection

1. Press the  button to select the index page.
2. You can select the pages which are colour coded along the bottom line with the same coloured buttons.
3. Corresponding to the SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
4. The **PR**  /  buttons can be used to select the preceding or following.

## Special teletext functions

### REVEAL

Press this button to display concealed information, such as solutions of riddles or puzzles.  
Press this button again to remove the information from the display.

### SIZE

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

### UPDATE

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

### HOLD

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inhibited.  
To continue press this button again.

### MIX

Displays the teletext pages superimposed on the TV picture.  
To switch the TV picture off press this button again.

### TIME

When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN,  /  or NUMBER buttons.  
Press again to exit this function.

# Reference

## Troubleshooting Checklist

| The operation does not work normally.  |                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>The remote control doesn't work</b> | <ul style="list-style-type: none"> <li>• Check to see if there is any object between the product and the remote control causing obstruction.</li> <li>• Are batteries installed with correct polarity (+ to +, - to -)?</li> <li>• Correct remote operating mode set: TV, VCR etc.?</li> <li>• Install new batteries.</li> </ul> |
| <b>Power is suddenly turned off</b>    | <ul style="list-style-type: none"> <li>• Is the sleep timer set?</li> <li>• Check the power control settings. Power interrupted</li> <li>• No broadcast on station tuned with Auto off activated.</li> </ul>                                                                                                                     |

| The video function does not work.                  |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No picture &amp; No sound</b>                   | <ul style="list-style-type: none"> <li>• Check whether the product is turned on.</li> <li>• Try another channel. The problem may be with the broadcast.</li> <li>• Is the power cord inserted into wall power outlet?</li> <li>• Check your antenna direction and/or location.</li> <li>• Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.</li> </ul> |
| <b>Picture appears slowly after switching on</b>   | <ul style="list-style-type: none"> <li>• This is normal, the image is muted during the product startup process. Please contact your service center, if the picture has not appeared after five minutes.</li> </ul>                                                                                                                                                                                                                |
| <b>No or poor color or poor picture</b>            | <ul style="list-style-type: none"> <li>• Adjust Color in menu option.</li> <li>• Keep a sufficient distance between the product and the VCR.</li> <li>• Try another channel. The problem may be with the broadcast.</li> <li>• Are the video cables installed properly?</li> <li>• Activate any function to restore the brightness of the picture.</li> </ul>                                                                     |
| <b>Horizontal/vertical bars or picture shaking</b> | <ul style="list-style-type: none"> <li>• Check for local interference such as an electrical appliance or power tool.</li> </ul>                                                                                                                                                                                                                                                                                                   |
| <b>Poor reception on some channels</b>             | <ul style="list-style-type: none"> <li>• Station or cable product experiencing problems, tune to another station.</li> <li>• Station signal is weak, reorient antenna to receive weaker station.</li> <li>• Check for sources of possible interference.</li> </ul>                                                                                                                                                                |
| <b>Lines or streaks in pictures</b>                | <ul style="list-style-type: none"> <li>• Check antenna (Change the direction of the antenna).</li> </ul>                                                                                                                                                                                                                                                                                                                          |

| The audio function does not work.     |                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Picture OK & No sound                 | <ul style="list-style-type: none"> <li>• Press the <b>VOL</b> or <b>VOLUME</b> button.</li> <li>• Sound muted? Press <b>MUTE</b> button.</li> <li>• Try another channel. The problem may be with the broadcast.</li> <li>• Are the audio cables installed properly?</li> <li>• Check whether the <b>TV Speaker</b> is <b>On</b> in the <b>SOUND</b> menu.</li> </ul> |
| No output from one of the speakers    | <ul style="list-style-type: none"> <li>• Adjust Balance in menu option.</li> </ul>                                                                                                                                                                                                                                                                                   |
| Unusual sound from inside the product | <ul style="list-style-type: none"> <li>• A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.</li> </ul>                                                                                                                                                  |

| There is a problem in PC mode.<br>(Only PC mode applied)                      |                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The signal is out of range.                                                   | <ul style="list-style-type: none"> <li>• Adjust resolution, horizontal frequency, or vertical frequency.</li> <li>• Check it whether the signal cable is connected or loose.</li> <li>• Check the input source.</li> </ul> |
| Vertical bar or stripe on back-ground & Horizontal Noise & Incorrect position | <ul style="list-style-type: none"> <li>• Work the Auto configure or adjust clock, phase, or H/V position.</li> </ul>                                                                                                       |
| Screen color is unstable or single color                                      | <ul style="list-style-type: none"> <li>• Check the signal cable.</li> <li>• Reinstall the PC video card.</li> </ul>                                                                                                        |

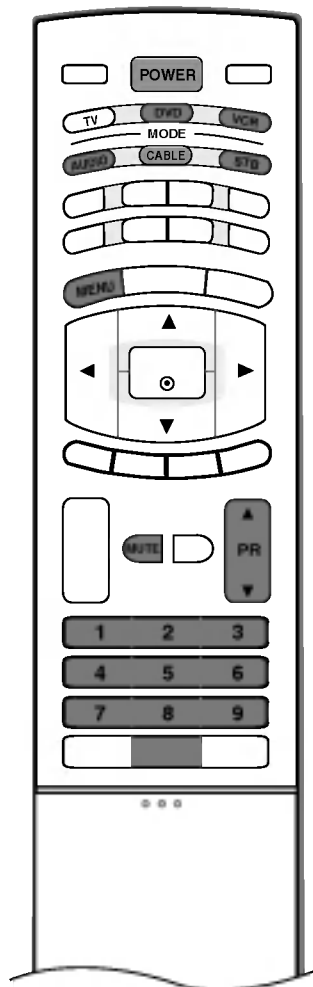
## Product Specifications

|                            |                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------|
| Power Requirement          | <b>32LX1R**/32LX2R**</b> : AC 100-240V~ 50/60Hz 2.0A<br><b>26LX1R**/26LX2R**</b> : AC 100-240V~ 50/60Hz 1.5A |
| Power Consumption          | <b>32LX1R**/32LX2R**</b> : 140W<br><b>26LX1R**/26LX2R**</b> : 115W                                           |
| Television System          | PAL/SECAM B/G/D/K, PAL I/II, NTSC-M                                                                          |
| Programme Coverage         | VHF: NZ1 ~ E12, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47                                             |
| External Antenna Impedance | 75 Ω                                                                                                         |

- The specifications shown above may be changed without prior notice for quality improvement.

# Reference

## Programming the Remote control



The remote control is a multi-brand or universal remote control. It can be programmed to operate most remote-controllable devices of other manufacturers. Note that the remote control may not control all models of other brands.

### Programming a code into a remote mode

1. Test your remote control.  
To find out whether your remote control can operate the component without programming, turn on the component such as a VCR and press the corresponding mode button (such as a **DVD** or **VCR**) on the remote control, while pointing at the component. Test the **POWER** and **PR ▲ / ▼** buttons to see if the component responds properly. If not, the remote requires programming to operate the device.
2. Turn on the component to be programmed, then press the corresponding mode button (such as a **DVD** or **VCR**) on the remote control. The remote control button of desired device is lighted.
3. Press the **MENU** and **MUTE** buttons simultaneously, the remote control is ready to be programmed for the code.
4. Enter a code number using the number buttons on the remote control. Programming code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will turn off.
5. Press the **MENU** button to store the code.
6. Test the remote control functions to see if the component responds properly. If not, repeat from step 2.

## Programming Codes

### ■ VCRs

| Brand          | Codes           | Brand         | Codes           | Brand      | Codes           | Brand           | Codes           |
|----------------|-----------------|---------------|-----------------|------------|-----------------|-----------------|-----------------|
| AIWA           | 034             | KENWOOD       | 014 034 039 043 | PORTLAND   | 108             | TATUNG          | 039 043         |
| AKAI           | 016 043 046 124 |               | 047 048         | PULSAR     | 072             | TEAC            | 034 039 043     |
|                | 125 146         | LG (GOLDSTAR) | 001 012 013 020 | QUARTZ     | 011 014         | TECHNICS        | 031 033 070     |
| AMPRO          | 072             |               | 101 106 114 123 | QUASAR     | 033 066 075 145 | TEKNIKA         | 019 031 033 034 |
| ANAM           | 031 033 103     | LLOYD         | 034             | RCA        | 013 020 033 034 |                 | 101             |
| AUDIO DYNAMICS | 012 023 039 043 | LXI           | 003 009 013 014 |            | 040 041 062 063 | THOMAS          | 034             |
| BROKSONIC      | 035 037 129     |               | 017 034 101 106 |            | 107 109 140 144 | TMK             | 006             |
| CANON          | 028 031 033     | MAGIN         | 040             | REALISTIC  | 145 147         | TOSHIBA         | 008 013 042 047 |
| CAPEHART       | 108             | MAGNAVOX      | 031 033 034 041 |            | 003 008 010 014 |                 | 059 082 112 131 |
| CRAIG          | 003 040 135     |               | 067 068         |            | 031 033 034 040 | TOTEVISION      | 040 101         |
| CURTIS MATHES  | 031 033 041     | MARANTZ       | 012 031 033 067 |            | 053 054 101     | UNITECH         | 040             |
| DAEWOO         | 005 007 010 064 |               | 069             | RICO       | 058             | VECTOR RESEARCH | 012             |
|                | 065 108 110 111 | MARTA         | 101             | RUNCO      | 148             | VICTOR          | 048             |
|                | 112 116 117 119 | MATSUI        | 027 030         | SALORA     | 014             | VIDEO CONCEPTS  | 012 034 046     |
| DAYTRON        | 108             | MEI           | 031 033         | SAMSUNG    | 032 040 102 104 | VIDEOSONIC      | 040             |
| DBX            | 012 023 039 043 | MEMOREX       | 003 010 014 031 |            | 105 107 109 112 | WARDS           | 003 013 017 024 |
| DYNATECH       | 034 053         |               | 033 034 053 072 |            | 113 115 120 122 |                 | 031 033 034 040 |
| ELECTROHOME    | 059             |               | 101 102 134 139 |            | 125             |                 | 053 054 131     |
| EMERSON        | 006 017 025 027 | MGA           | 045 046 059     | SANSUI     | 022 043 048 135 | YAMAHA          | 012 034 039 043 |
|                | 029 031 034 035 | MINOLTA       | 013 020         | SANYO      | 003 007 010 014 | ZENITH          | 034 048 056 058 |
|                | 036 037 046 101 | MITSUBISHI    | 013 020 045 046 |            | 102 134         |                 | 072 080 101     |
|                | 129 131 138 153 |               | 049 051 059 061 | SCOTT      | 017 037 112 129 |                 |                 |
| FISHER         | 003 008 009 010 |               | 151             |            | 131             |                 |                 |
| FUNAI          | 034             | MTC           | 034 040         | SEARS      | 003 008 009 010 |                 |                 |
| GE             | 031 033 063 072 | MULTITECH     | 024 034         |            | 013 014 017 020 |                 |                 |
|                | 107 109 144 147 | NEC           | 012 023 039 043 |            | 031 042 073 081 |                 |                 |
| GO VIDEO       | 132 136         |               | 048             |            | 101             |                 |                 |
| HARMAN KARDON  | 012 045         | NORDMENDE     | 043             | SHARP      | 031 054 149     |                 |                 |
| HITACHI        | 004 018 026 034 | OPTONICA      | 053 054         | SHINTOM    | 024             |                 |                 |
|                | 043 063 137 150 | PANASONIC     | 066 070 074 083 | SONY       | 003 009 031 052 |                 |                 |
| INSTANTREPLAY  | 031 033         |               | 133 140 145     |            | 056 057 058 076 |                 |                 |
| JCL            | 031 033         | PENTAX        | 013 020 031 033 |            | 077 078 149     |                 |                 |
| JCPENNY        | 012 013 015 033 |               | 063             | SOUNDESIGN | 034             |                 |                 |
|                | 040 066 101     | PHILCO        | 031 034 067     | STS        | 013             |                 |                 |
| JENSEN         | 043             | PHILIPS       | 031 033 034 054 | SYLVANIA   | 031 033 034 059 |                 |                 |
| JVC            | 012 031 033 043 |               | 067 071 101     |            | 067             |                 |                 |
|                | 048 050 055 060 | PILOT         | 101             | SYMPHONIC  | 034             |                 |                 |
|                | 130 150 152     | PIONEER       | 013 021 048     | TANDY      | 010 034         |                 |                 |

### ■ AUDIO

| Brand         | Codes           | Brand    | Codes           | Brand     | Codes           | Brand    | Codes           |
|---------------|-----------------|----------|-----------------|-----------|-----------------|----------|-----------------|
| AIWA          | 014 028 070 096 | INKEL    | 037 058 062 069 | MARANTZ   | 002 018 020 025 | SANYO    | 019 083 234     |
|               | 125 129 139 229 |          | 078 079 095 121 |           | 034 041 081 090 | SCOTT    | 106 186         |
|               | 230             |          | 122 149 150 151 |           | 097 112         | SHARP    | 031 032 051 052 |
| AKAI          | 163             |          | 152 153 154 155 | MEMOREX   | 107             |          | 072 082 117 119 |
| ANAM          | 003 014 017 023 |          | 157 158 159 160 | NAD       | 046             |          | 156 184 199 200 |
|               | 059 106 189 216 |          | 189 207 222 224 | ONKYO     | 013 040 041 047 |          | 206 209         |
|               | 217 235 236     |          | 225 226 227 243 |           | 048 056 057 132 | SHERWOOD | 005 006 158     |
| BURMECTER     | 252             |          | 247             |           | 133 140         | SONY     | 044 045 109 114 |
| CARVER        | 086             | KEC      | 185 186 187     | OPTIMUS   | 158             |          | 118 126 248 249 |
| CLARION       | 199             | KENWOOD  | 038 050 067 089 | PANASONIC | 007 033 064 113 | TAEKWANG | 012 020 073 074 |
| DAEWOO        | 027 053 060 084 |          | 170 171 197 206 |           | 142 220 241 251 |          | 076 077 105 161 |
|               | 102 148 198 221 |          | 215 222         | PENNEY    | 104             |          | 162 163 164 165 |
| DENON         | 015 075 130 143 | KOHEL    | 030             | PHILIPS   | 026 112 143     |          | 166 167 168 169 |
| FANTASIA      | 071             | NAD      | 045 046         | PIONEER   | 039 042 043 063 |          | 205 231 233 242 |
| FINEARTS      | 022             | LOTTE    | 014 016 036 098 |           | 065 091 093 094 | TEAC     | 010 085 106 136 |
| FISHER        | 089 099         |          | 100 172 173 174 |           | 115 123 127 250 |          | 185 187 237     |
| LG (GOLDSTAR) | 001 021 024 029 |          | 175 176 177 178 | QUASAR    | 113             | TECHNICS | 101 113 128 134 |
|               | 087 107 108 110 |          | 179 180 181 183 | RCA       | 080             |          | 147 218         |
|               | 190 191 192 210 |          | 201 202 208 213 | RCX       | 092             | TOSHIBA  | 137             |
|               | 211 212 239     |          | 214 219 223 232 | REALISTIC | 103 106         | THE      | 061             |
| HAITAI        | 034 035 188 222 |          | 238 240         | SAMSUNG   | 124 145 146 182 | VICTOR   | 088 131         |
| HARMAN/KARDON | 068             | LXI      | 103             |           | 193 194 195 203 | WARDS    | 089             |
| JVC           | 004 013 141     | MAGNAVOX | 111             |           | 204 244 245 246 | YAMAHA   | 054 055 066 092 |
| MCS           | 104             | MCINTOSH | 049             | SANSUI    | 011 135 138 144 |          | 199             |

# Reference

## Programming Codes

### ■ DVD

| Brand         | Codes           | Brand      | Codes   | Brand   | Codes   | Brand    | Codes       |
|---------------|-----------------|------------|---------|---------|---------|----------|-------------|
| APEX DIGITAL  | 022             | MAGNAVOX   | 013     | PHILIPS | 013     | SONY     | 007         |
| DENON         | 020 014         | MARANTZ    | 024     | PIONEER | 004 026 | THOMPSON | 005 006     |
| GE            | 005 006         | MITSUBISHI | 002     | PROCEED | 021     | TOSHIBA  | 019 008     |
| HARMAN KARDON | 027             | NAD        | 023     | PROSCAN | 005 006 | YAMAHA   | 009 018     |
| JVC           | 012             | ONKYO      | 008 017 | RCA     | 005 006 | ZENITH   | 010 016 025 |
| LG (GOLDSTAR) | 001 010 016 025 | PANASONIC  | 003 009 | SAMSUNG | 011 015 |          |             |

### ■ CABLE

| Brand        | Codes           | Brand          | Codes           | Brand              | Codes           | Brand        | Codes           |
|--------------|-----------------|----------------|-----------------|--------------------|-----------------|--------------|-----------------|
| ABC          | 003 004 039 042 | GOLDEN CHANNEL | 030             | PHILIPS            | 006 012 013 020 | SPRUCER      | 047 078         |
| AJIN         | 046 052 053     | HAMLIN         | 049 050 055     |                    | 065 085 090     | STARCOM      | 002 004 008 009 |
| ANTRONIK     | 014             | HITACHI        | 052 055         | PIONEER            | 034 051 052 063 | STARGATE     | 008 030         |
| ARCHER       | 005 007 014 024 | HOSPITALITY    | 070 077         |                    | 076             | TADIRAN      | 030             |
| CABLE STAR   | 026             | JERROLD        | 002 003 004 008 | PRUCER             | 059             | TAEKWANG     | 110             |
| CENTURION    | 092             |                | 009 010 052 069 | PTS                | 011 048 071 072 | TAIHAN       | 105             |
| CENTURY      | 007             |                | 074             |                    | 073 074         | TANDY        | 017             |
| CITIZEN      | 007             | LG (GOLDSTAR)  | 001 106 101 005 | PULSAR             | 100             | TEXSCAN      | 029             |
| COLOUR VOICE | 065 090         | M-NET          | 037             | RCA                | 047             | TOCOM        | 039 040 056     |
| COMBANO      | 080 081         | MACOM          | 033             | REGAL              | 049 050         | TOSHIBA      | 100             |
| COMTRONICS   | 019 030         | MAGNAVOX       | 010 012 064 079 | REGENCY            | 057             | UNIKA        | 007 014 024     |
| DIAMOND      | 023             | MEMOREX        | 100             | REMBRANT           | 025             | UNITED CABLE | 004 053         |
| EAGLE        | 020 030 040     | MOVIE TIME     | 028 032         | SAMSUNG            | 102 107 030 068 | UNIVERSAL    | 005 007 014 024 |
| EASTERN      | 057 062 066     | NSC            | 015 028 038 071 | SCIENTIFIC ATLANTA | 003 011 041 042 |              | 026 027 032 035 |
| ELECTRICORD  | 032             |                | 073             |                    | 043 045 046     | VIEWSTAR     | 012 015 018 086 |
| GE           | 072             | OAK            | 016 031 037 053 | SHERITECH          | 022             |              | 087 088 089     |
| GEMINI       | 008 022 025 054 | PANASONIC      | 044 047         | SIGNAL             | 030             | ZENITH       | 100 114 060 093 |
| GI           | 052 074         | PARAGON        | 100             | SIGNATURE          | 052             |              |                 |
|              |                 | POST NEWS WEEK | 016             | SL MARX            | 030             |              |                 |

### ■ STB

| Brand          | Codes           | Brand              | Codes           | Brand              | Codes           | Brand                | Codes           |
|----------------|-----------------|--------------------|-----------------|--------------------|-----------------|----------------------|-----------------|
| ALPHASTAR DSR  | 123             | EUROPLUS           | 114             | MACOM              | 010 059 063 064 | SATELLITE SERVICE CO | 028 035 047 057 |
| AMPLICA        | 050             | FUJITSU            | 017 021 022 027 |                    | 065             |                      | 085             |
| BIRDVIEW       | 051 126 129     |                    | 133 134         | NEXTWAVE           | 028 124 125     | SONY                 | 103             |
| CHANNEL MASTER | 013 014 015 018 | GENERAL INSTRUMENT | 003 004 016 029 | NORSAT             | 069 070         | STARCAST             | 041             |
|                | 036 055         |                    | 031 059 101     | PAGE SKY SATELLITE | 143             | SUPER GUIDE          | 020 124 125     |
| CHAPARRAL      | 008 009 012 077 | HITACHI            | 139 140         | PANASONIC          | 060 142         | TEECOM               | 023 026 075 087 |
| CITOH          | 054             | HOUSTON TRACKER    | 033 037 039 051 | PANSAT             | 121             |                      | 088 090 107 130 |
| CURTIS MATHES  | 050 145         |                    | 057 104         | PERSONAL CABLE     | 117             |                      | 137             |
| DRAKE          | 005 006 007 010 | HUGHES             | 068             | PHILIPS            | 071             | TOSHIBA              | 002 127         |
|                | 011 052 112 116 | JANIEL             | 060 147         | PICO               | 105             | UNIDEN               | 016 025 042 043 |
|                | 141             | JERROLD            | 061             | PRESIDENT          | 019 102         |                      | 044 045 048 049 |
| DX ANTENNA     | 024 046 056 076 | KATHREIN           | 108             | PRIMESTAR          | 030 110 111     |                      | 078 079 080 086 |
| ECHOSTAR       | 038 040 057 058 | LEGEND             | 057             | PROSAT             | 072             |                      | 101 135 136     |
|                | 093 094 095 096 | LG (GOLDSTAR)      | 001             | RCA                | 066 106         | VIEWSTAR             | 115             |
|                | 097 098 099 100 | LUTRON             | 132             | REALISTIC          | 043 074         | WINEGARD             | 128 146         |
|                | 122             | LUXOR              | 062 144         | SAMSUNG            | 123             | ZENITH               | 081 082 083 084 |
| ELECTRO HOME   | 089             | MEMOREX            | 057             | SCIENTIFIC ATLANTA | 032 138         |                      | 091 120         |

## IR codes

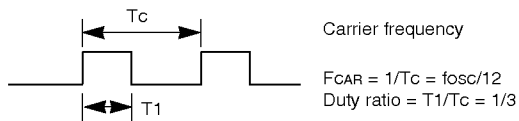
### How to Connect

- ▶ Connect your wired remote control to the Remote Control port on the TV.

### Remote Control IR Codes

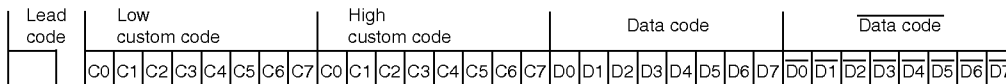
#### ▶ Output waveform

Single pulse, modulated with 37.917KHz signal at 455KHz

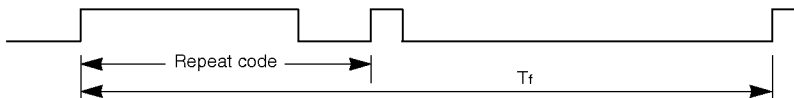


#### ▶ Configuration of frame

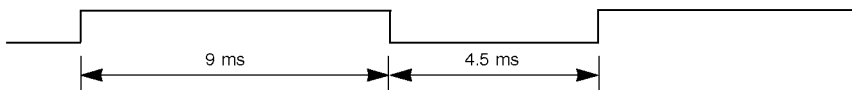
- 1st frame



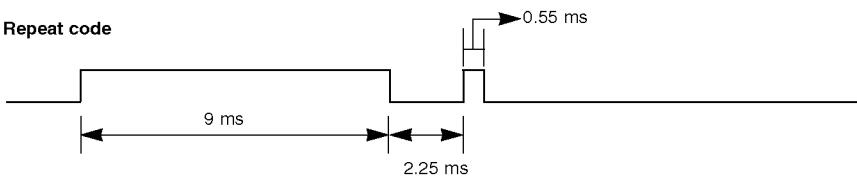
- Repeat frame



#### ▶ Lead code

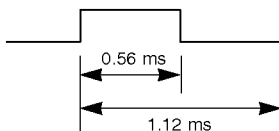


#### ▶ Repeat code

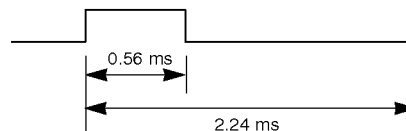


#### ▶ Bit description

- Bit "0"

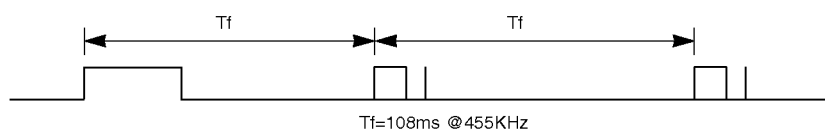


- Bit "1"



#### ▶ Frame interval : $T_f$

The waveform is transmitted as long as a key is depressed.



# Reference

## IR codes

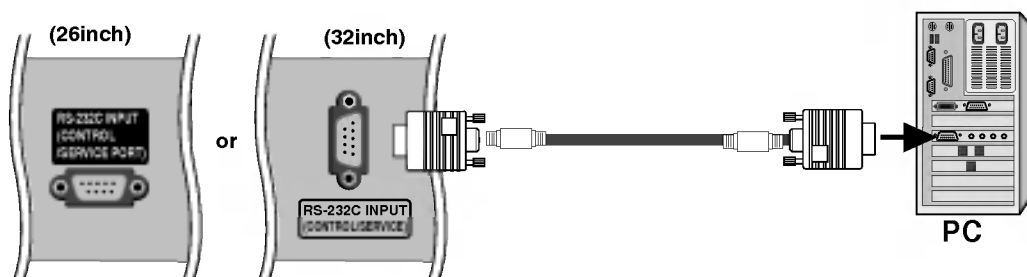
| Code (Hexa) | Function        | Note                              |
|-------------|-----------------|-----------------------------------|
| 0F          | TV              | Remote Control Button             |
| 08          | POWER           | Remote Control Button             |
| 0B          | INPUT           | Remote Control Button             |
| C4          | POWER ON        | Discrete IR Code (Only Power On)  |
| C5          | POWER OFF       | Discrete IR Code (Only Power OFF) |
| 60          | PIP             | Remote Control Button             |
| 5D          | ZOOM-           | Remote Control Button             |
| 5C          | ZOOM+           | Remote Control Button             |
| 0E          | SLEEP           | Remote Control Button             |
| 20          | *TEXT           | Remote Control Button             |
| 52          | SSM             | Remote Control Button             |
| 4D          | PSM             | Remote Control Button             |
| 0A          | I/II            | Remote Control Button             |
| 43          | MENU            | Remote Control Button             |
| 79          | ARC             | Remote Control Button             |
| 5B          | EXIT            | Remote Control Button             |
| 07          | ◀               | Remote Control Button             |
| 06          | ▶               | Remote Control Button             |
| 40          | ▲               | Remote Control Button             |
| 41          | ▼               | Remote Control Button             |
| 44          | OK              | Remote Control Button             |
| 72          | PIP PR-         | Remote Control Button             |
| 71          | PIP PR+         | Remote Control Button             |
| 63          | SWAP            | Remote Control Button             |
| 61          | PIP INPUT       | Remote Control Button             |
| 72          | RED             | Remote Control Button             |
| 71          | GREEN           | Remote Control Button             |
| 63          | YELLOW          | Remote Control Button             |
| 61          | BLUE            | Remote Control Button             |
| 02          | VOL ▲           | Remote Control Button             |
| 03          | VOL ▼           | Remote Control Button             |
| 00          | PR ▲            | Remote Control Button             |
| 01          | PR ▼            | Remote Control Button             |
| 09          | MUTE            | Remote Control Button             |
| 53          | LIST            | Remote Control Button             |
| 10~19       | Number Key 0~ 9 | Remote Control Button             |
| 1E          | FAVOURITE       | Remote Control Button             |
| 1A          | Q.VIEW          | Remote Control Button             |
| 64          | SIZE            | Remote Control Button             |
| 62          | POSITION        | Remote Control Button             |
| 70          | *INDEX          | Remote Control Button             |
| 65          | *HOLD           | Remote Control Button             |
| 26          | *TIME           | Remote Control Button             |
| 2A          | *REVEAL         | Remote Control Button             |
| 24          | *MIX            | Remote Control Button             |
| 22          | *MODE           | Remote Control Button             |

\* : This feature is not available in all countries.

## External Control Device Setup ; RS-232C

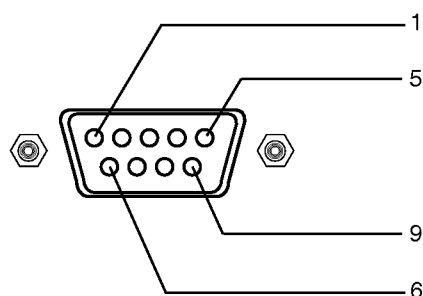
- Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the TV's functions externally.
- Connect the serial port of the control device to the RS-232C jack on the TV back panel.
- RS-232C connection cable is not supplied with the TV.

### RS-232C Setup



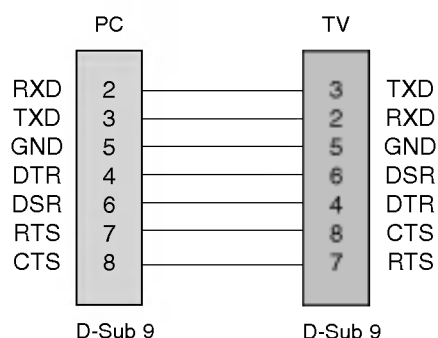
### Type of Connector; D-Sub 9-Pin Male

| No. | Pin name             |
|-----|----------------------|
| 1   | No connection        |
| 2   | RXD (Receive data)   |
| 3   | TXD (Transmit data)  |
| 4   | DTR (DTE side ready) |
| 5   | GND                  |
| 6   | DSR (DCE side ready) |
| 7   | RTS (Ready to send)  |
| 8   | CTS (Clear to send)  |
| 9   | No Connection        |

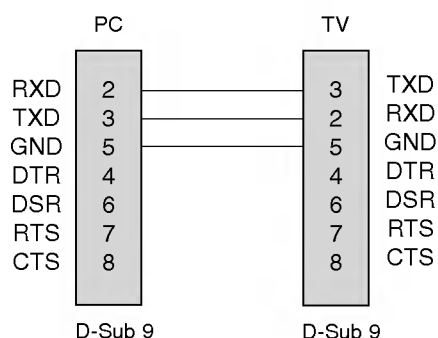


### RS-232C Configurations

#### 7-Wire Configurations (Standard RS-232C cable)



#### 3-Wire Configurations (Not standard)



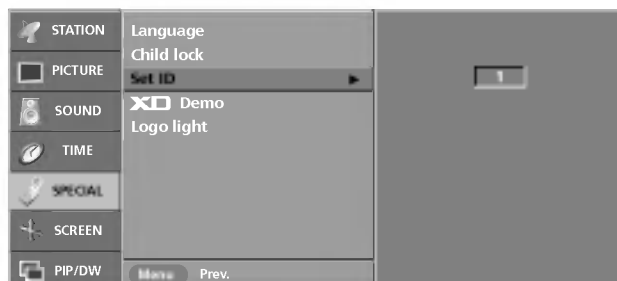
# Reference

## External Control Device Setup ; RS-232C

### Set ID

- Use this function to specify a monitor ID number.
- Refer to 'Real Data Mapping 1'. See page 61.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **Special** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Set ID**.
3. Press the **▶** button and then use **◀ / ▶** button to adjust **Set ID** to choose the desired monitor ID number. The adjustment range of **Set ID** is 1 ~ 99.
4. Press the **OK** button to save.



### Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code
- \* Use a crossed (reverse) cable.

### Command Reference List

|                                      | COMMAND |   | DATA     |
|--------------------------------------|---------|---|----------|
|                                      | 1       | 2 | (Hexa)   |
| 01. Power                            | k       | a | 0 ~ 1    |
| 02. Input Select (Main Picture)      | x       | b | *        |
| 03. Input Select (Sub Picture)       | x       | y | *        |
| 04. Aspect Ratio                     | k       | c | 0 ~ 6    |
| 05. Screen Mute                      | k       | d | 0 ~ 1    |
| 06. Volume Mute                      | k       | e | 0 ~ 1    |
| 07. Volume Control                   | k       | f | 0 ~ 64   |
| 08. Contrast                         | k       | g | 0 ~ 64   |
| 09. Brightness                       | k       | h | 0 ~ 64   |
| 10. Colour                           | k       | i | 0 ~ 64   |
| 11. Tint                             | k       | j | 0 ~ 64   |
| 12. Sharpness                        | k       | k | 0 ~ 64   |
| 13. OSD Select                       | k       | l | 0 ~ 1    |
| 14. Key Lock                         | k       | m | 0 ~ 1    |
| 15. Balance                          | k       | t | 0 ~ 64   |
| 16. Programme Select (Main TV Input) | m       | a | 0 ~ 63   |
| 17. Programme Select (Sub TV Input)  | m       | b | 0 ~ 1    |
| 18. Key                              | m       | c | Key Code |

\* : Refer to '02~03. Input Select' on page 61

### Transmission / Receiving Protocol

#### Transmission

[Command1][Command2][ ][Set ID][ ][Data][Cr]

- \* [Command 1]: First command. (k, x or m)
- \* [Command 2]: Second command.
- \* [Set ID]: You can adjust the set ID to choose desired monitor ID number in Special menu. Adjustment range is 1 ~ 99. When selecting Set ID '0', every connected TV set is controlled. Set ID is indicated as decimal (1~99) on menu and as Hexa decimal (0x0~0x63) on transmission/receiving protocol.
- \* [DATA]: To transmit command data.  
Transmit 'FF' data to read status of command.
- \* [Cr]: Carriage Return  
ASCII code '0x0D'
- \* [ ] : ASCII code 'space (0x20)'

#### OK Acknowledgement

[Command2][ ][Set ID][ ][OK][Data][x]

- \* The Monitor transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

#### Error Acknowledgement

[Command2][ ][Set ID][ ][NG][Data][x]

- \* The Monitor transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.  
Data 1: Illegal Code  
2: not support function

#### Error messages

1. **Illegal ID** : If Wrong or no ID in the command is written.
2. **B\_TokenLength !=2** : If the first argument of the command does not equals to 2.
3. **Error ==TOKEN\_ERROR** : If some Special character or Numeric are written to the first argument of the command or wrong Space position is written to the first argument of the command.
4. **Illegal Opcodes** : If the Wrong Alphabet is written to the first argument of the command.
5. **Illegal Params** : If the Wrong parameter is supplied to the end of the command line (means that value of the parameter that is not supported).

## 01. Power On (Command:a)

- To control Power On/Off of the TV.

### Transmission

[k][a][ ][Set ID][ ][Data][Cr]

Data 0 : Power Off 1 : Power On

### Acknowledgement

[a][ ][Set ID][ ][OK][Data][x]

- To show Power On/Off.

### Transmission

[k][a][ ][Set ID][ ][FF][Cr]

### Acknowledgement

[a][ ][Set ID][ ][OK][Data][x]

Data 0 : Power Off 1 : Power On

## 02. Input Select (Command:b) (Main Picture Input)

- To select input source for the TV.  
You can also select an input source using the INPUT button on the TV's remote control.

### Transmission

[x][b][ ][Set ID][ ][Data][Cr]

Data 10 : TV 50 or 60 : DVI PC  
20 : AV 51 or 61 : DVI DTV  
30 : S-Video 90 : HDMI PC  
40 : Component 1 91 : HDMI DTV  
41 : Component 2

### Acknowledgement

[b][ ][Set ID][ ][OK][Data][x]

## 03. Input Select (Command:y) (Sub Picture Input)

[x][y][ ][Set ID][ ][Data][Cr]

Data 10 : TV 50 or 60 : DVI  
20 : AV 90 : HDMI  
30 : S-Video  
40 : Component 1  
41 : Component 2

### Acknowledgement

[y][ ][Set ID][ ][OK][Data][x]

## 04. Aspect Ratio (Command:c) (Main picture format)

- To adjust the screen format.  
You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the Screen menu.

### Transmission

[k][c][ ][Set ID][ ][Data][Cr]

Data 0 : Normal screen (4:3) 4 : Spectacle  
1 : Wide screen (16:9) 5 : Full  
2 : 14:9 6 : Original  
3 : Zoom

\* In PC mode only 16:9 and 4:3 aspect ratios are available.

\* Full is not available in all countries.

### Acknowledgement

[c][ ][Set ID][ ][OK][Data][x]

## 05. Screen Mute (Command:d)

- To select screen mute on/off.

### Transmission

[k][d][ ][Set ID][ ][Data][Cr]

Data 0 : Screen mute off (Picture on)  
1 : Screen mute on (Picture off)

## 06. Volume Mute (Command:e)

- To control volume mute on/off.  
You can also adjust mute using the MUTE button on remote control.

### Transmission

[k][e][ ][Set ID][ ][Data][Cr]

Data 0 : Volume mute on (Volume off)  
1 : Volume mute off (Volume on)

### Acknowledgement

[e][ ][Set ID][ ][OK][Data][x]

## 07. Volume Control (Command:f)

- To adjust volume.  
You can also adjust volume with the volume buttons on remote control.

### Transmission

[k][f][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code)  
• Refer to 'Real data mapping 1' as shown below.

### Acknowledgement

[f][ ][Set ID][ ][OK][Data][x]

## 08. Contrast (Command:g)

- To adjust screen contrast.  
You can also adjust contrast in the Picture menu.

### Transmission

[k][g][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code)  
• Refer to 'Real data mapping 1' as shown below.

### Acknowledgement

[g][ ][Set ID][ ][OK][Data][x]

### \* Real data mapping 1

0 : Step 0  
⋮  
A : Step 10  
⋮  
F : Step 15  
10 : Step 16  
⋮  
64 : Step 100

\* Tint : R50 ~ G50

\* Balance : L50 ~ R50

# Reference

## External Control Device Setup ; RS-232C

### 09. Brightness (Command:h)

- To adjust screen brightness.  
You can also adjust brightness in the Picture menu.

#### Transmission

[k][h][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code)  
• Refer to 'Real data mapping 1'. See page 61.

#### Acknowledgement

[h][ ][Set ID][ ][OK][Data][x]

### 10. Colour (Command:i)

- To adjust the screen colour.  
You can also adjust colour in the Picture menu.

#### Transmission

[k][i][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code)  
• Refer to 'Real data mapping 1'. See page 61.

#### Acknowledgement

[i][ ][Set ID][ ][OK][Data][x]

### 11. Tint (Command:j)

- To adjust the screen tint.(NTSC M input only)  
You can also adjust tint in the Picture menu.

#### Transmission

[k][j][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code)  
• Refer to 'Real data mapping 1'. See page 61.

#### Acknowledgement

[j][ ][Set ID][ ][OK][Data][x]

### 12. Sharpness (Command:k)

- To adjust the screen sharpness.  
You can also adjust sharpness in the Picture menu.

#### Transmission

[k][k][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code)  
• Refer to 'Real data mapping 1'. See page 61.

#### Acknowledgement

[k][ ][Set ID][ ][OK][Data][x]

### 13. OSD Select (Command:l)

- To select OSD (On Screen Display) mute on/off.

#### Transmission

[k][l][ ][Set ID][ ][Data][Cr]

Data 0: OSD mute on 1: OSD mute off

#### Acknowledgement

[l][ ][Set ID][ ][OK][Data][x]

### 14. Key Lock (Command:m)

- To lock the front panel controls on the TV.

#### Transmission

[k][m][ ][Set ID][ ][Data][Cr]

Data 0: Lock off 1: Lock on

#### Acknowledgement

[m][ ][Set ID][ ][OK][Data][x]

- If you're not using the front panel controls on the TV, use this mode. When main power is on/off, remote control lock is released.

### 15. Balance (Command:t)

- To adjust balance.

#### Transmission

[k][t][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code)

- Refer to 'Real data mapping 1'. See page 61.

#### Acknowledgement

[t][ ][Set ID][ ][OK][Data][x]

### 16. Programme Select (Command:m a) (Main TV Input)

- Tune channel to following Physical/major/minor number.

#### Transmission

[m][a][ ][Set ID][ ][Data0][Cr]

Data0: Programme Number

Min : 0 ~ Max : 63(transmit by Hexadecimal code)

#### Acknowledgement

[a][ ][Set ID][ ][OK][Data0][x]

[a][ ][Set ID][ ][NG][Data0][x]

### 17. Programme Select (Command:m b) (Sub TV Input)

- Tune channel to following Physical/major/minor number.

#### Transmission

[m][b][ ][Set ID][ ][Data 0][Cr]

Data0: Programme Number

Min : 0 ~ Max : 63(transmit by Hexadecimal code)

#### Acknowledgement

[b][ ][Set ID][ ][OK][Data0][x]

[b][ ][Set ID][ ][NG][Data0][x]

### 18. Key (Command:m c)

- To send IR remote key code.

#### Transmission

[m][c][ ][Set ID][ ][Data][Cr]

Data: Key code (Refer to P.58)

#### Acknowledgement

[c][ ][Set ID][ ][OK][Data][x]

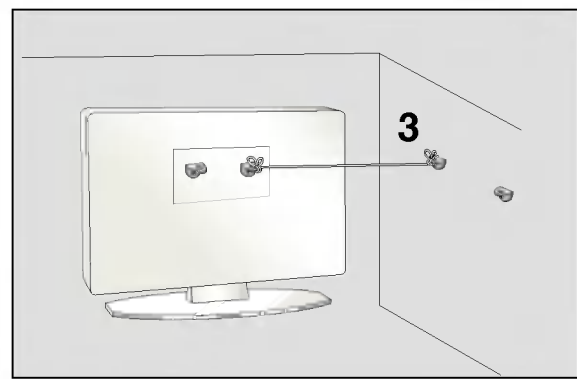
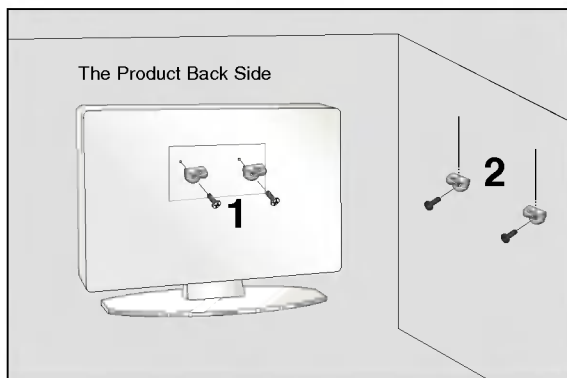
## How to join the product assembly to the wall to protect the set tumbling

**Please set it up carefully so the product doesn't fall over.**



Set it up close to the wall so the product doesn't fall over when it is pushed backwards.

The instructions shown below is a safer way to set up the product, which is to fix it on the wall so the product doesn't fall over when it is pulled in the forward direction. It will prevent the product from falling forward and hurting people. It will also prevent the product from damage caused by fall. Please make sure that children don't climb on or hang from the product.



- 1** Use the bracket and the bolt to fix the product to the wall as shown in the picture.
- 2** Secure the bracket with the bolt (not provided as parts of the product, must purchase separately) on the wall.
- 3** Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

### Notes

- When moving the product to another place undo the ropes first.
- Use a product holder or a cabinet that is big and strong enough for the size and weight of the product.
- To use the product safely make sure that the height of the bracket that is mounted on the wall is same as that of the product.

