

LCD TV

OWNER'S MANUAL

MODEL: 26LZ5RV





















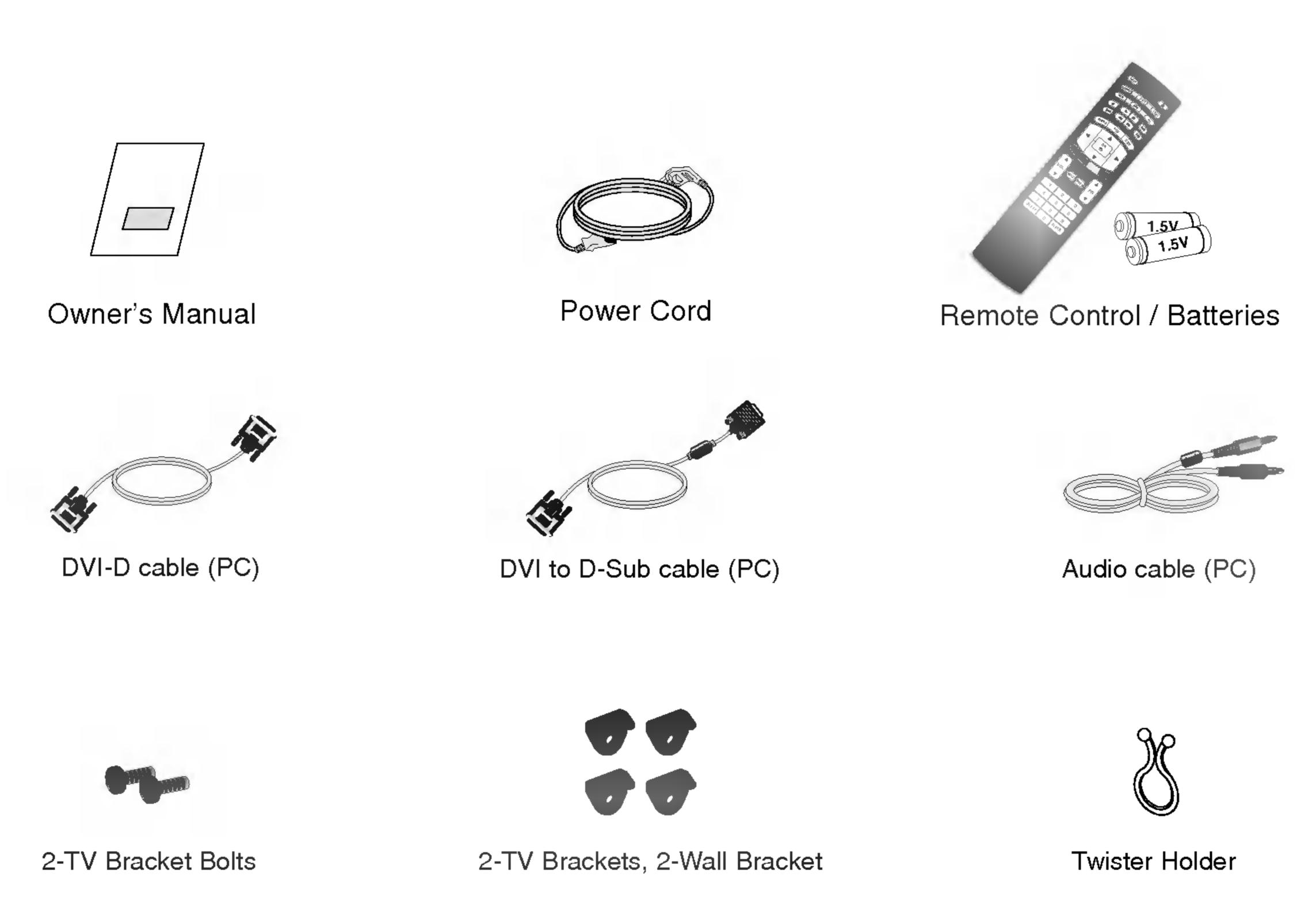
Please read Information Manual included together before reading this manual and operating your set.

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: 3828TUL266G (0508-REV02) Printed in Korea

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.



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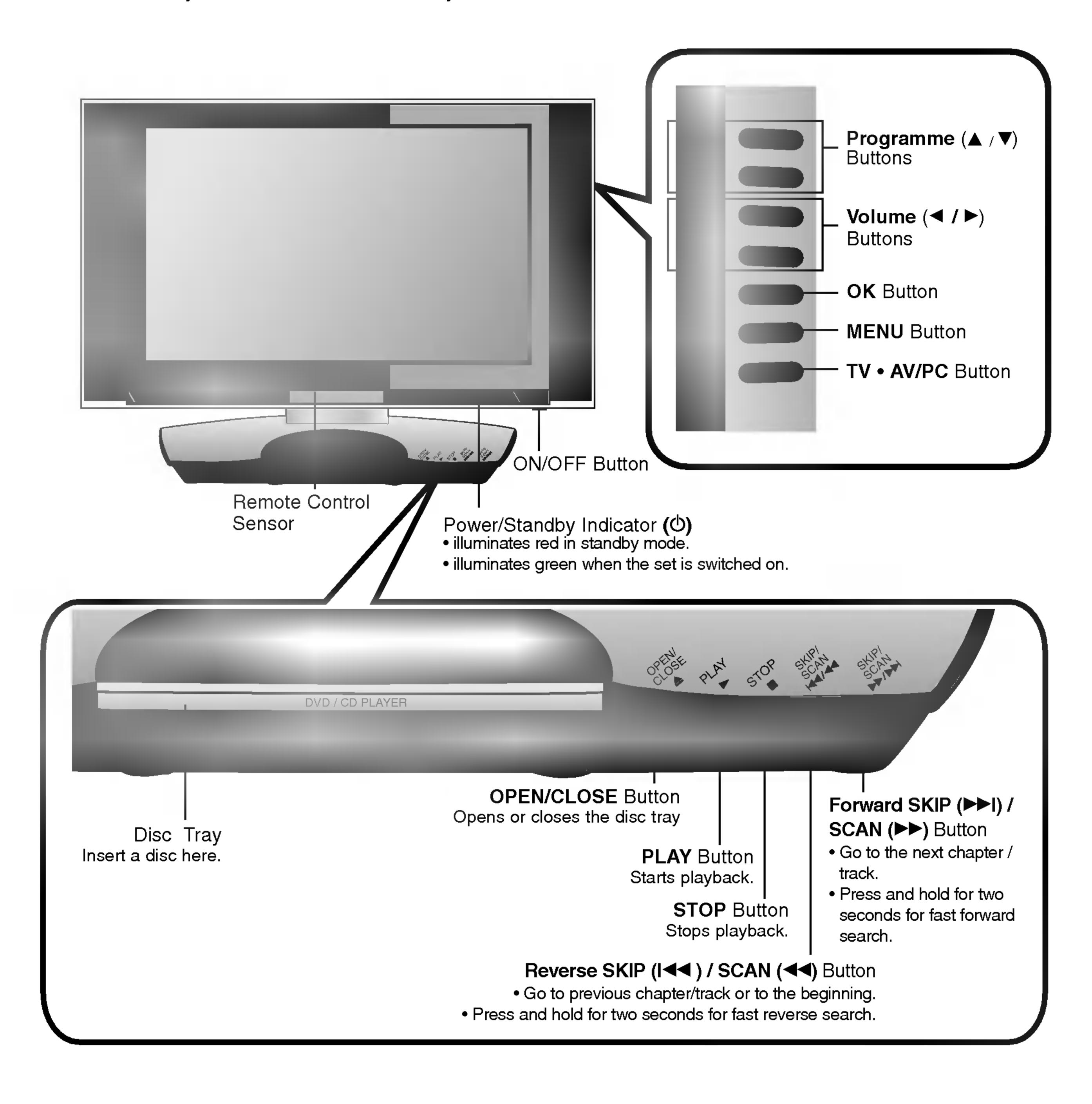
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Introduction

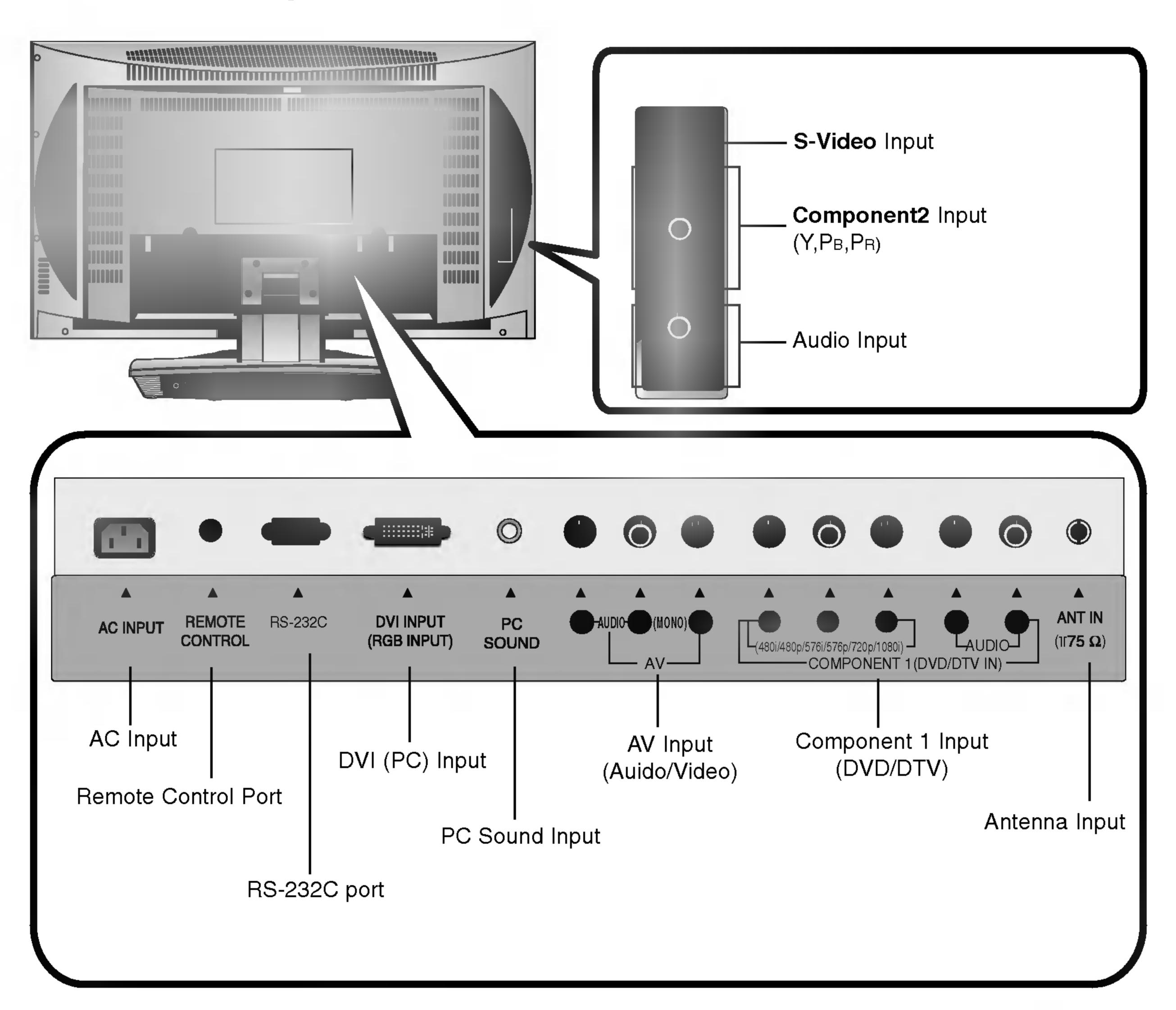
Controls

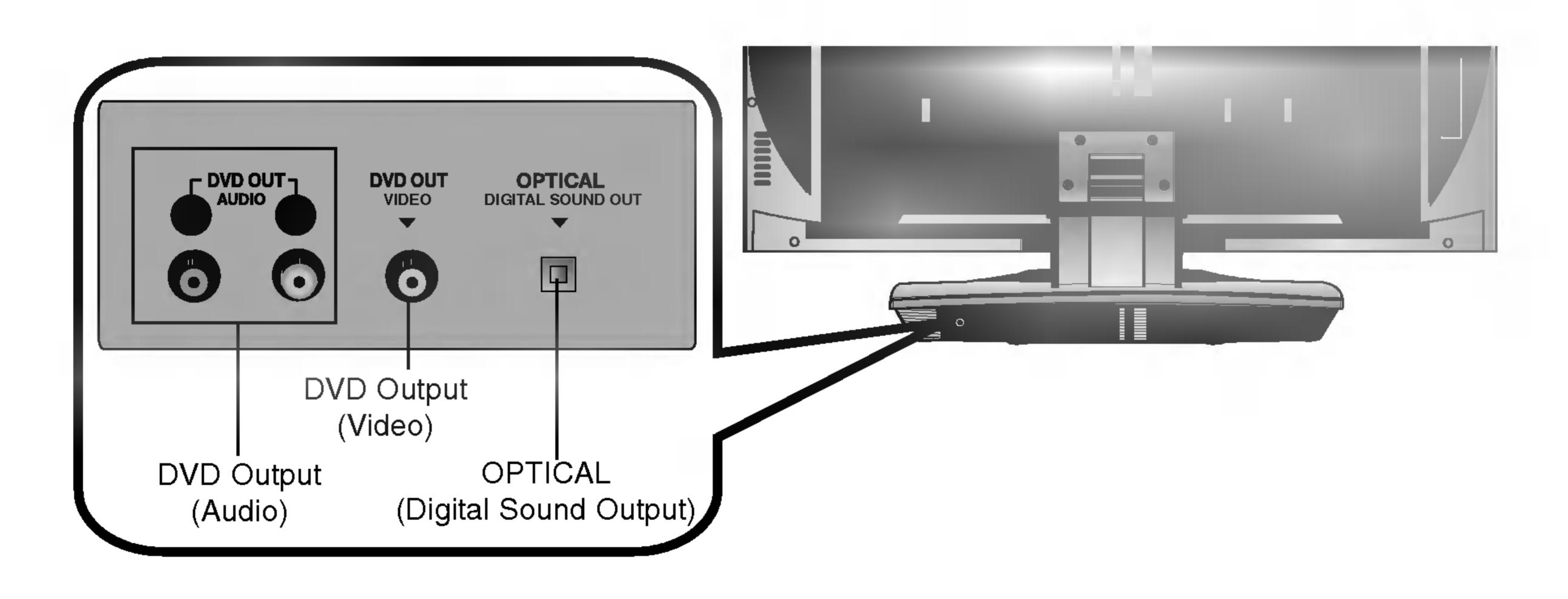
- This is a simplified representation of front panel.
- Here shown may be somewhat different from your TV.



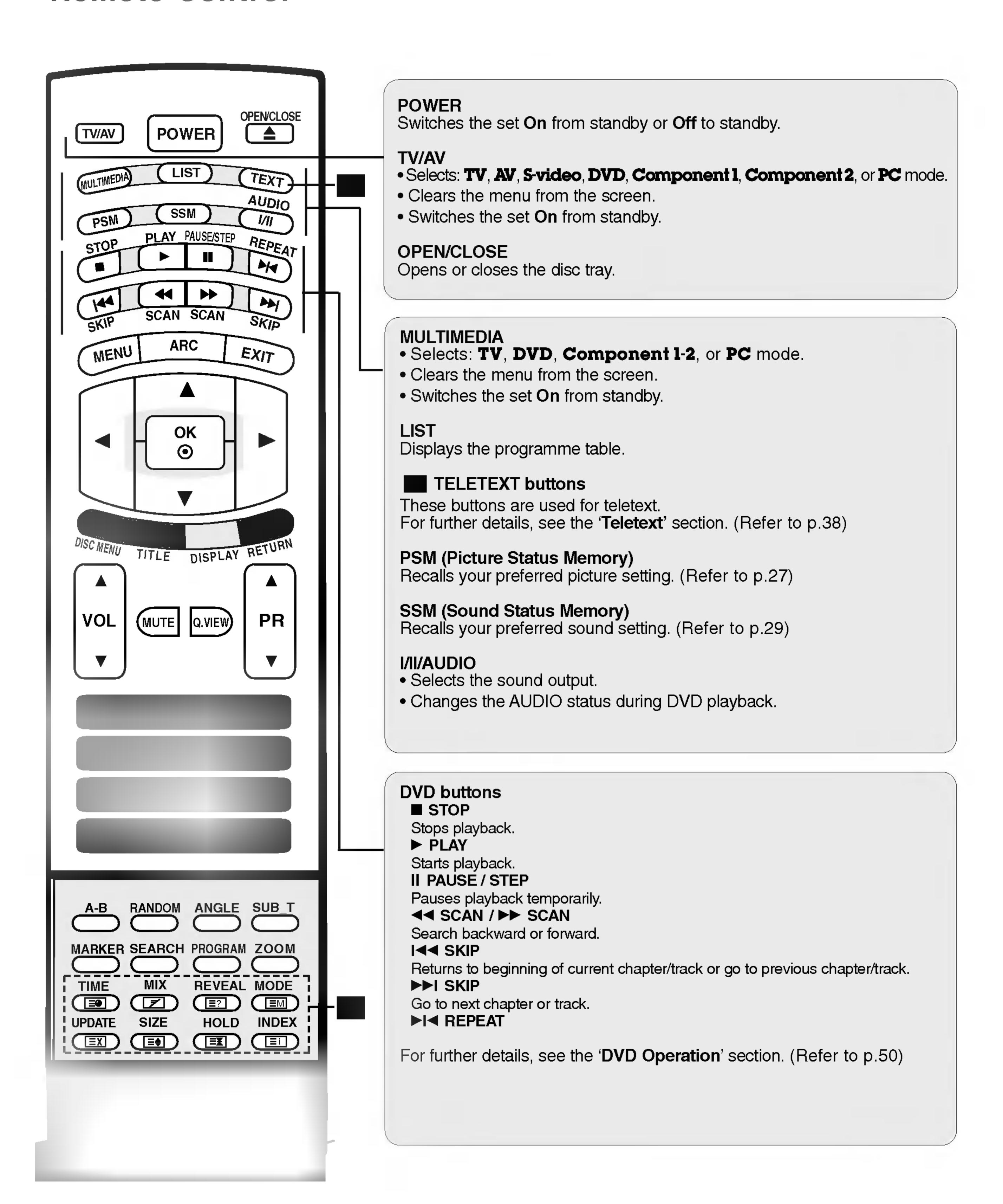
Introduction

Connection Options



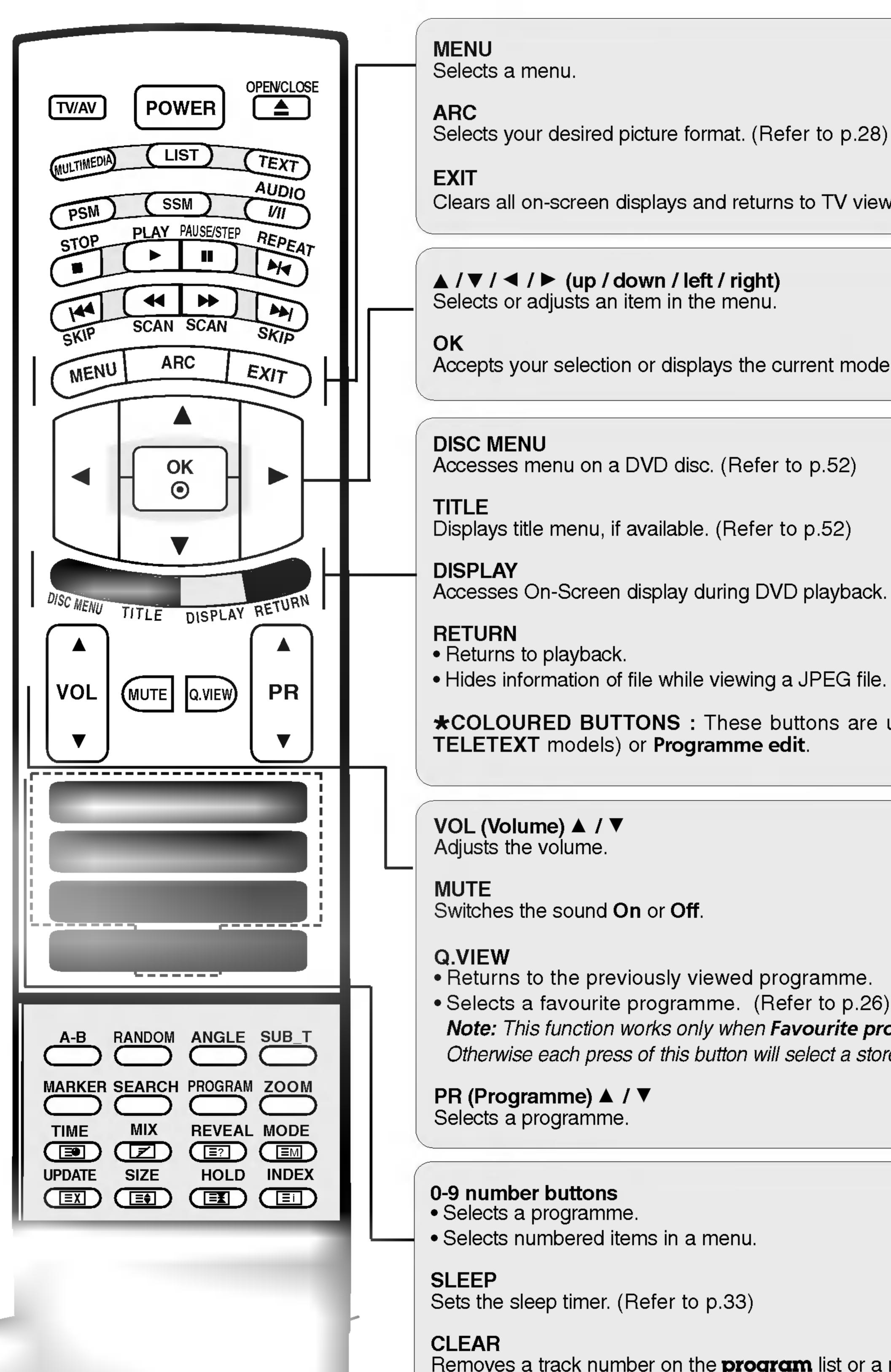


Remote Control



Introduction

Remote Control



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

Accepts your selection or displays the current mode.

Accesses On-Screen display during DVD playback. (Refer to p.53)

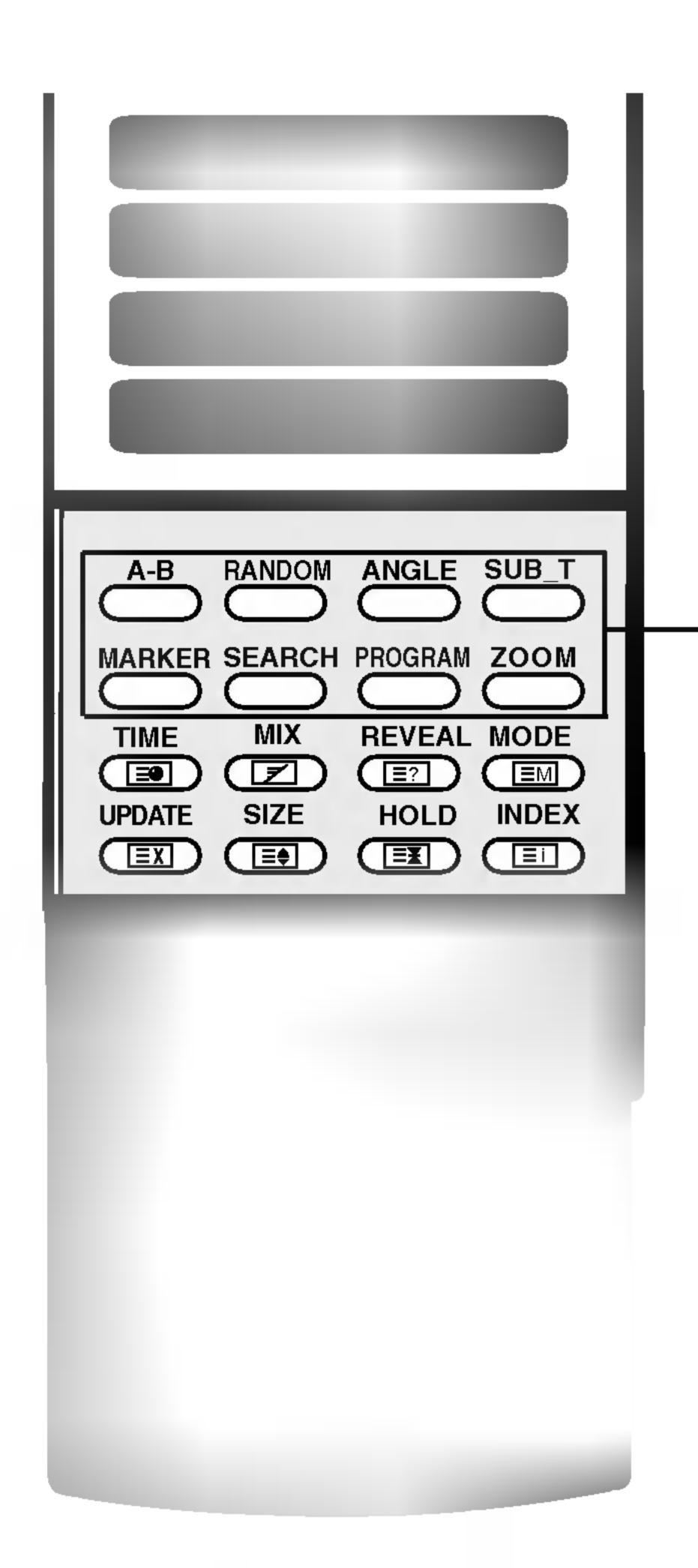
• Hides information of file while viewing a JPEG file. (Refer to p.59)

*COLOURED BUTTONS: These buttons are used for teletext (only

- Returns to the previously viewed programme.
- Selects a favourite programme. (Refer to p.26)

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

Removes a track number on the **program** list or a mark on the MARKER SEARCH menu. (Refer to p.55)



A-B

Repeat sequence.

RANDOM

Plays chapters or tracks in random order.

ANGLE

Selects a DVD camera angle if available. (Refer to p.54)

SUB_T (SUBTITLE)

Selects à subtitle language. (Refer to p.55)

MARKER

Marks any point during playback. (Refer to p.55)

SEARCH

Displays MARKER SEARCH menu. (Refer to p.55)

PROGRAM

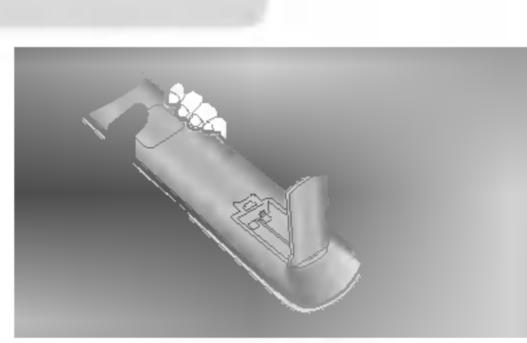
Places a track on the program list. (Refer to p.58)

ZOOM

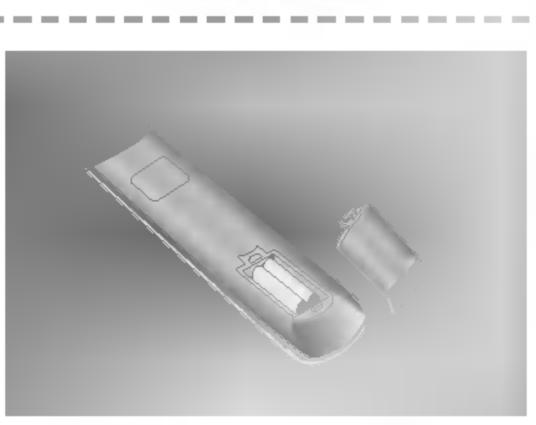
Changes the picture size during DVD playback. (Refer to p.55)

Installing Batteries

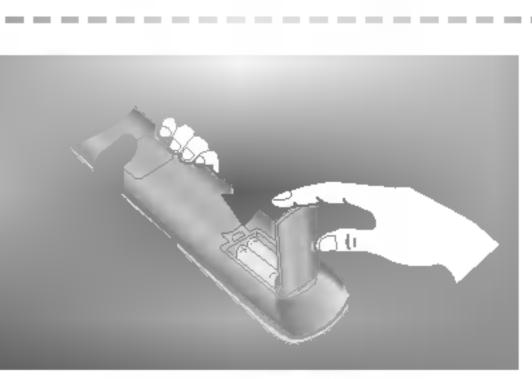
Open the battery compartment cover on the back side.



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.





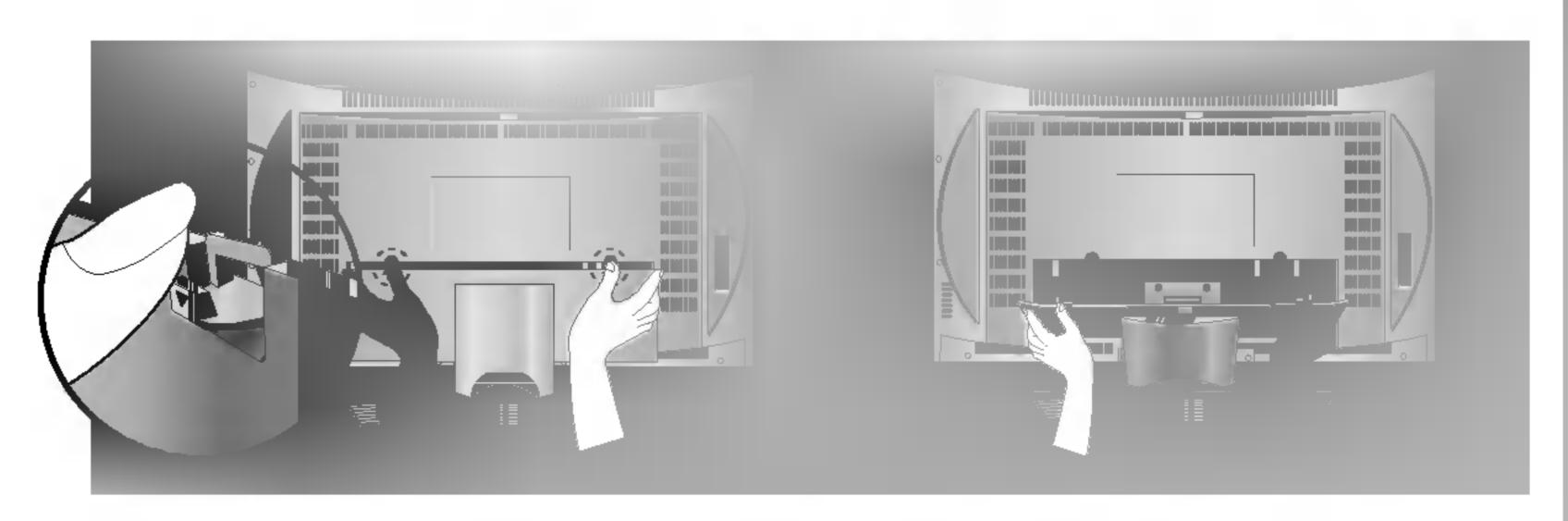
* Use a remote control 7 meter distance and 30 degree (left/right) within the receiving unit scope.

^{*} Dispose of used batteries in the recycle bin to prevent environment.

Installation

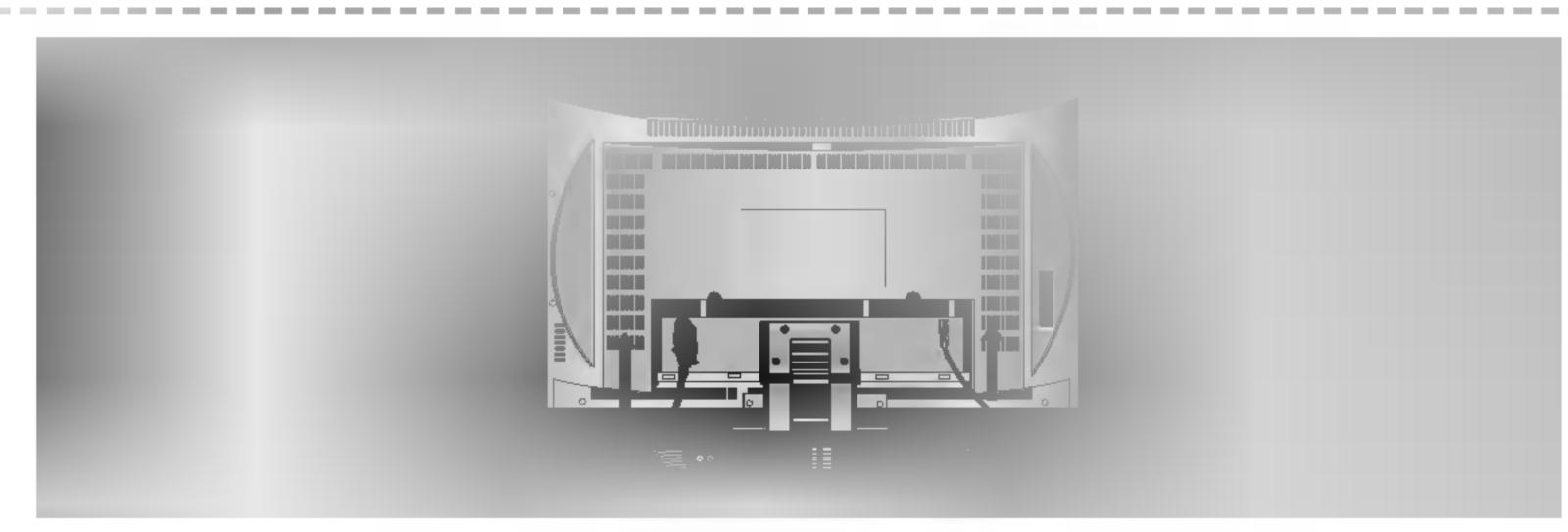
Basic Connection

1 Pull the back cover backside while pushing the two tabs and then lift it up.

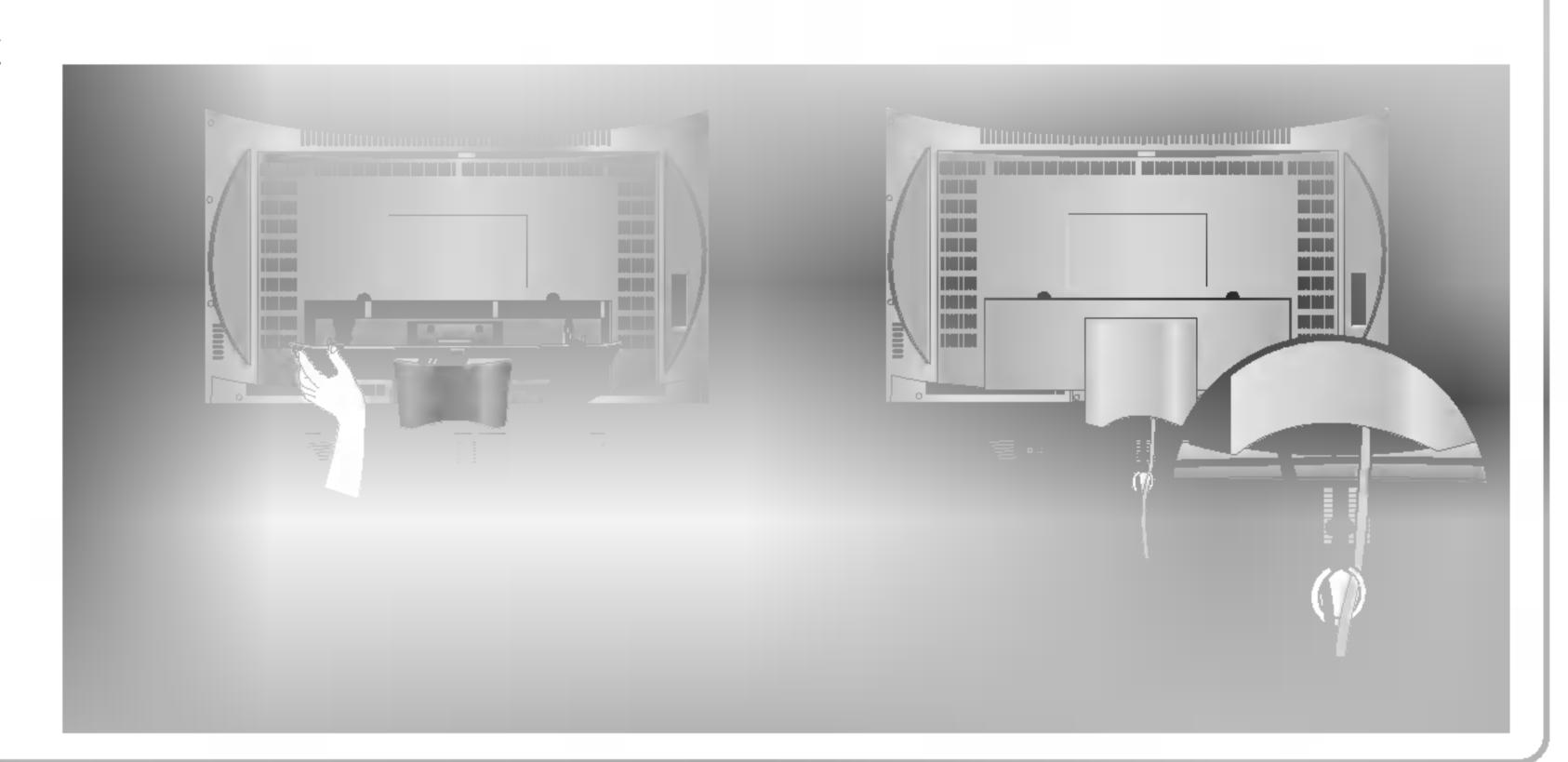


Connect the cables as necessary.

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



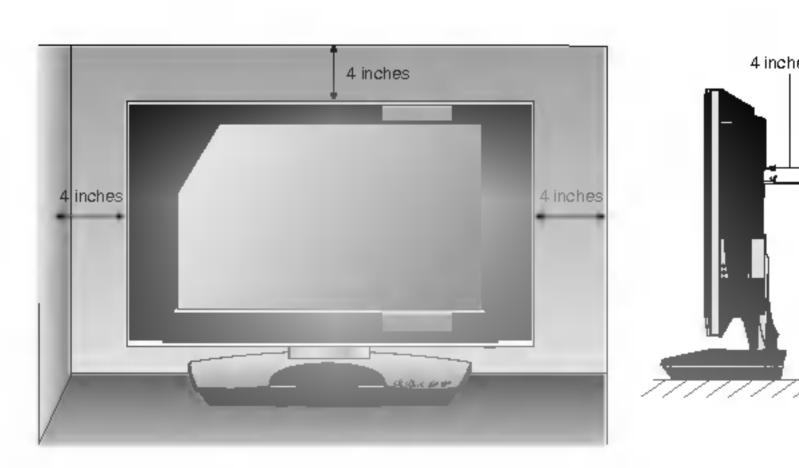
- Align the holes on the TV back panel with the protuberances on the rear back cover and insert.
 - Cable Arranagement
 Pull the cables through the hole on the set and bundle the cables using the supplied twister holder.



Desktop Pedestal Installation

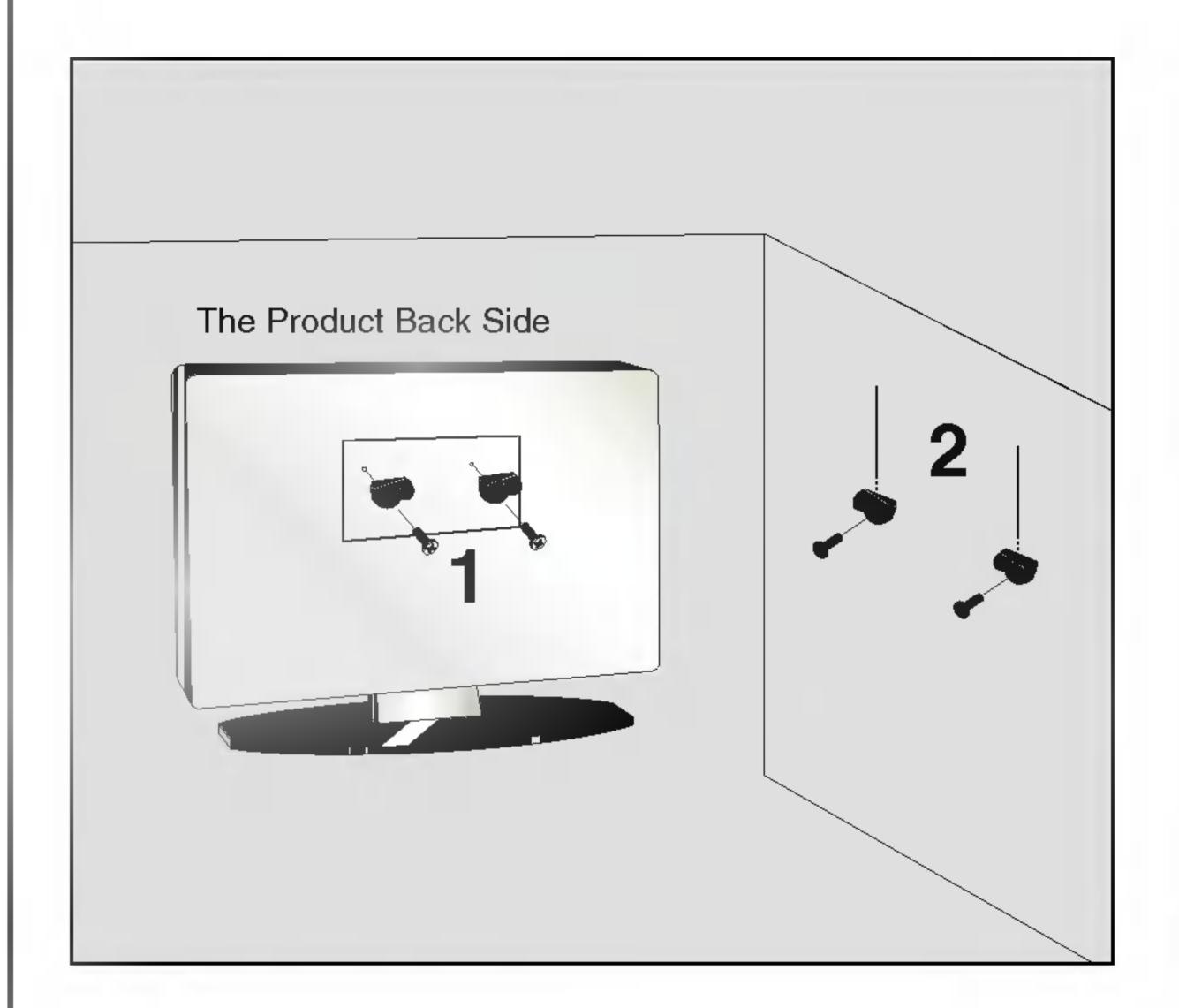


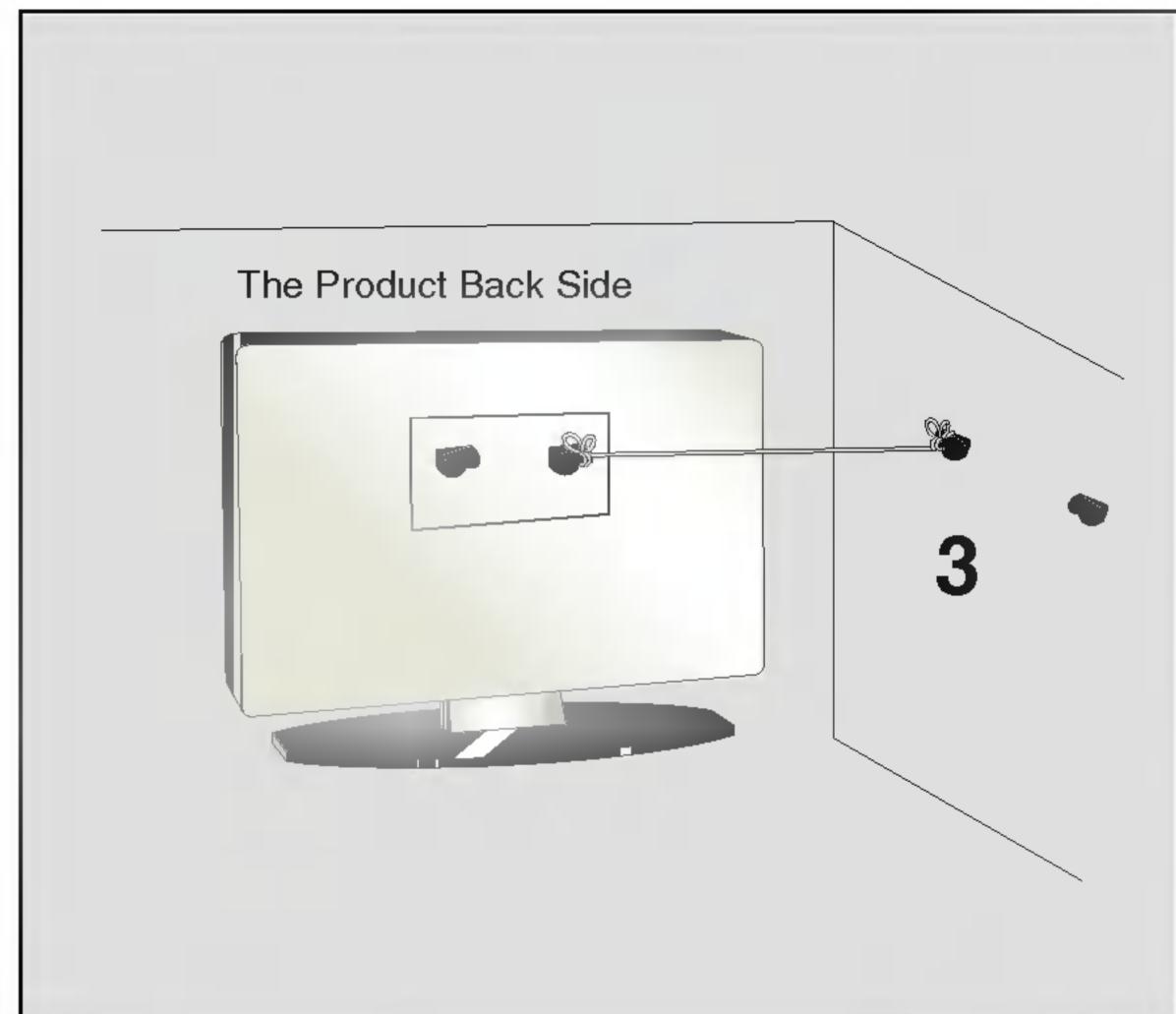
For proper ventilation, allow a clearance of 4" on each side and from the wall.



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

- 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

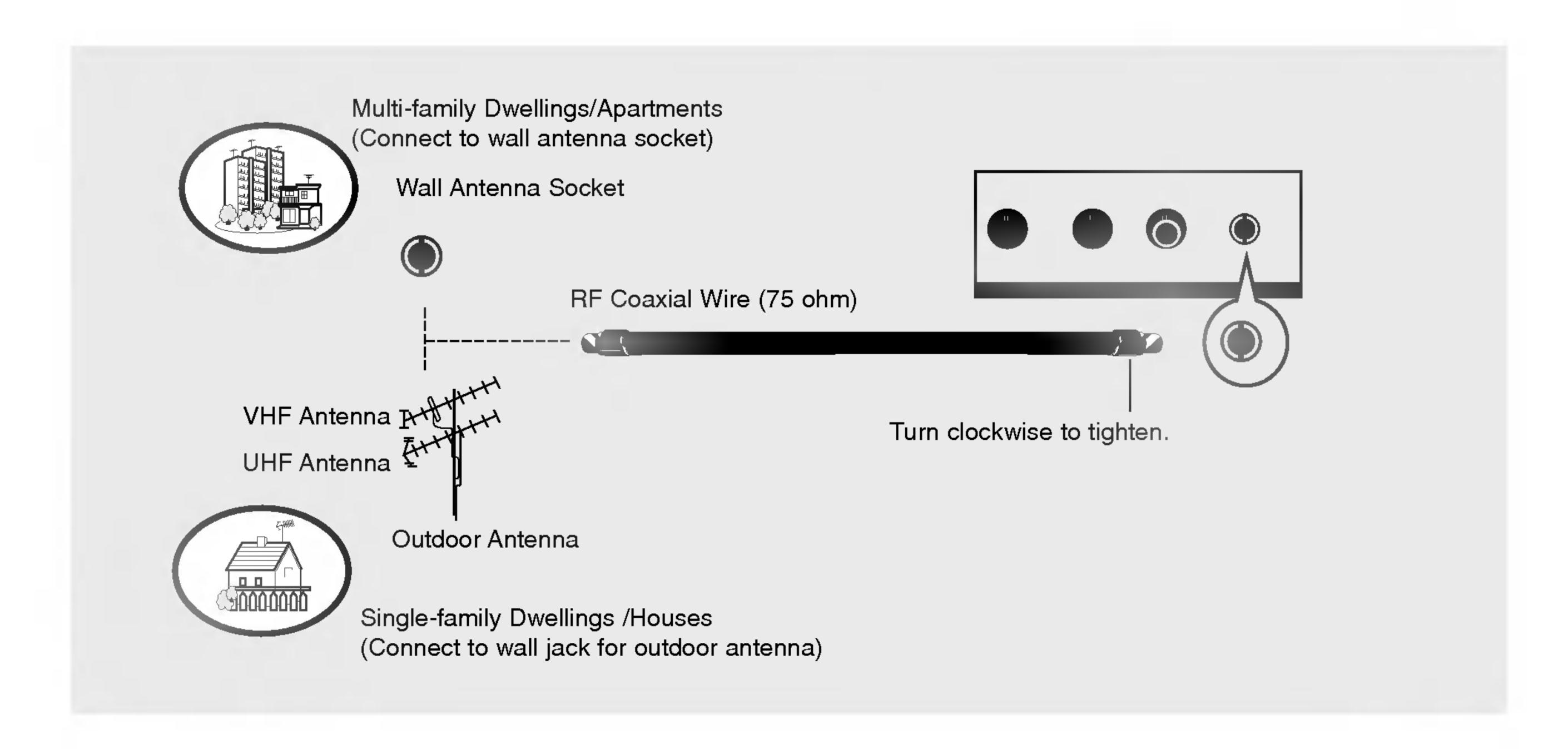
- When moving the product to another place undo the ropes first.
- Use a product holder or a cabinet that is big and strong enough for the size and weight of the product.
- To use the product safely make sure that the height of the bracket that is mounted on the wall is same as that of the product.

Installation

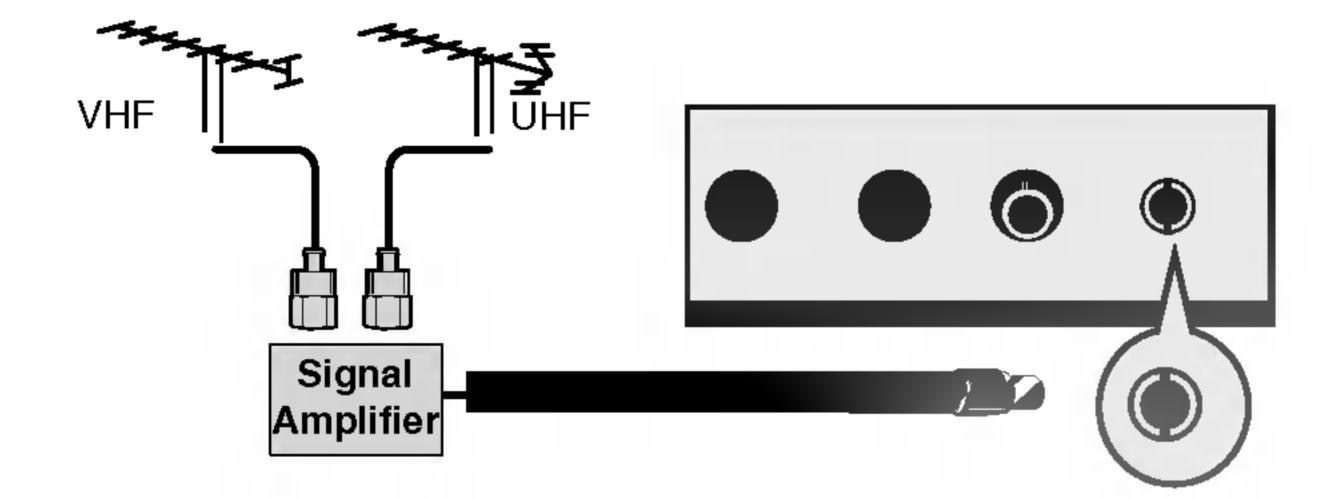
External Equipment Connections

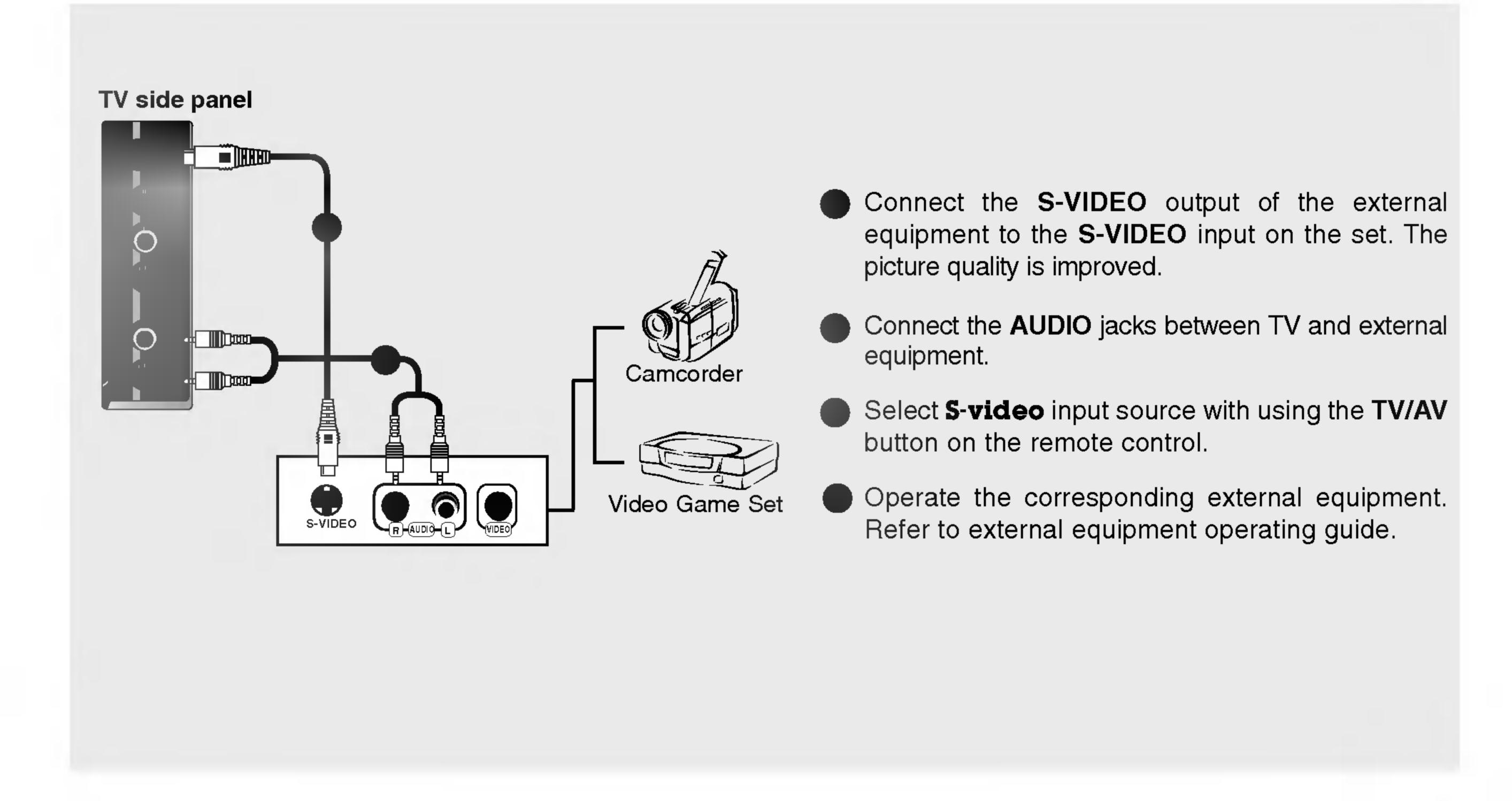
To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.

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



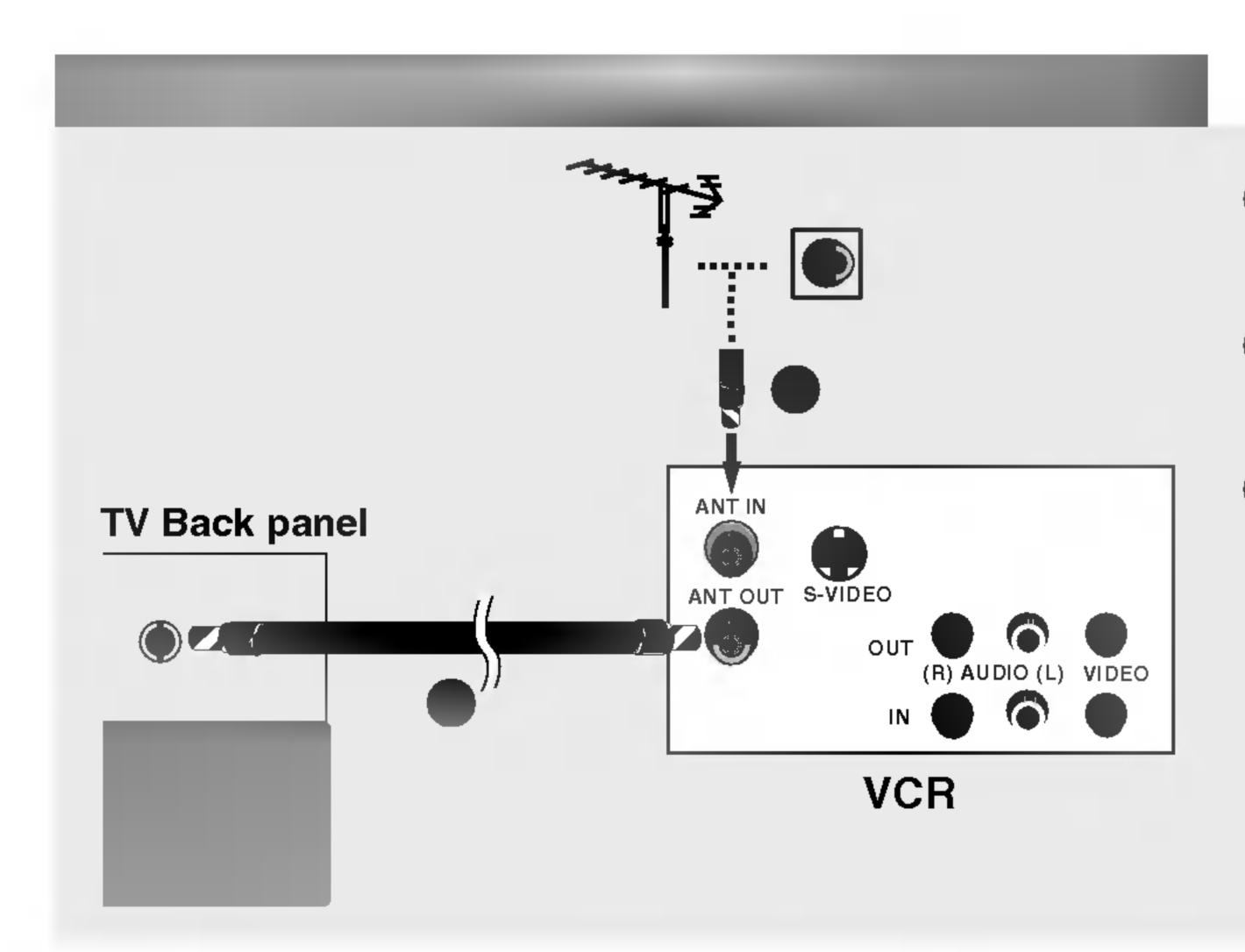
- In poor signal areas, to get better picture quality, install a signal amplifier to the antenna as shown to the right.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.



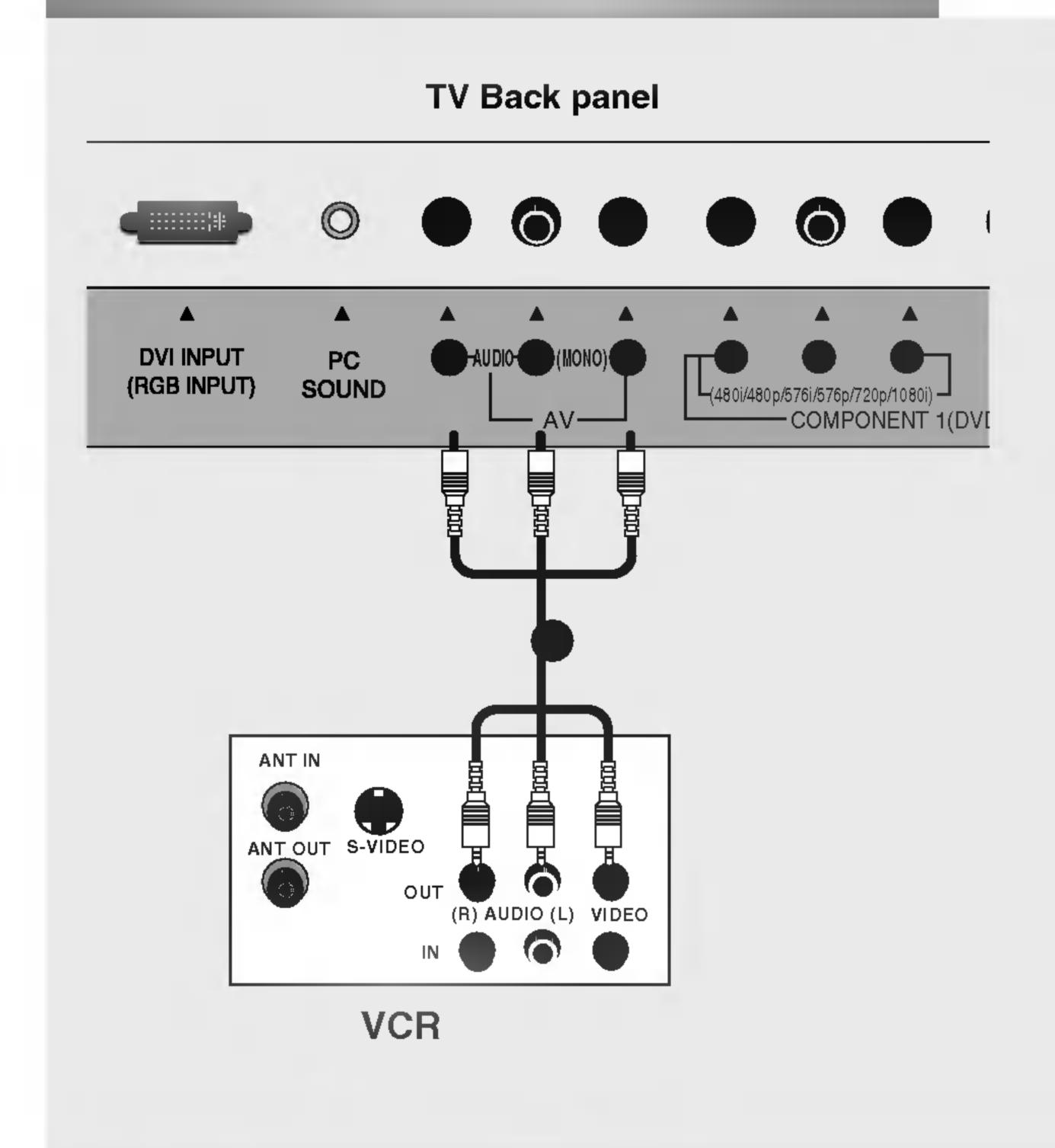


External Equipment Connections

- 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.

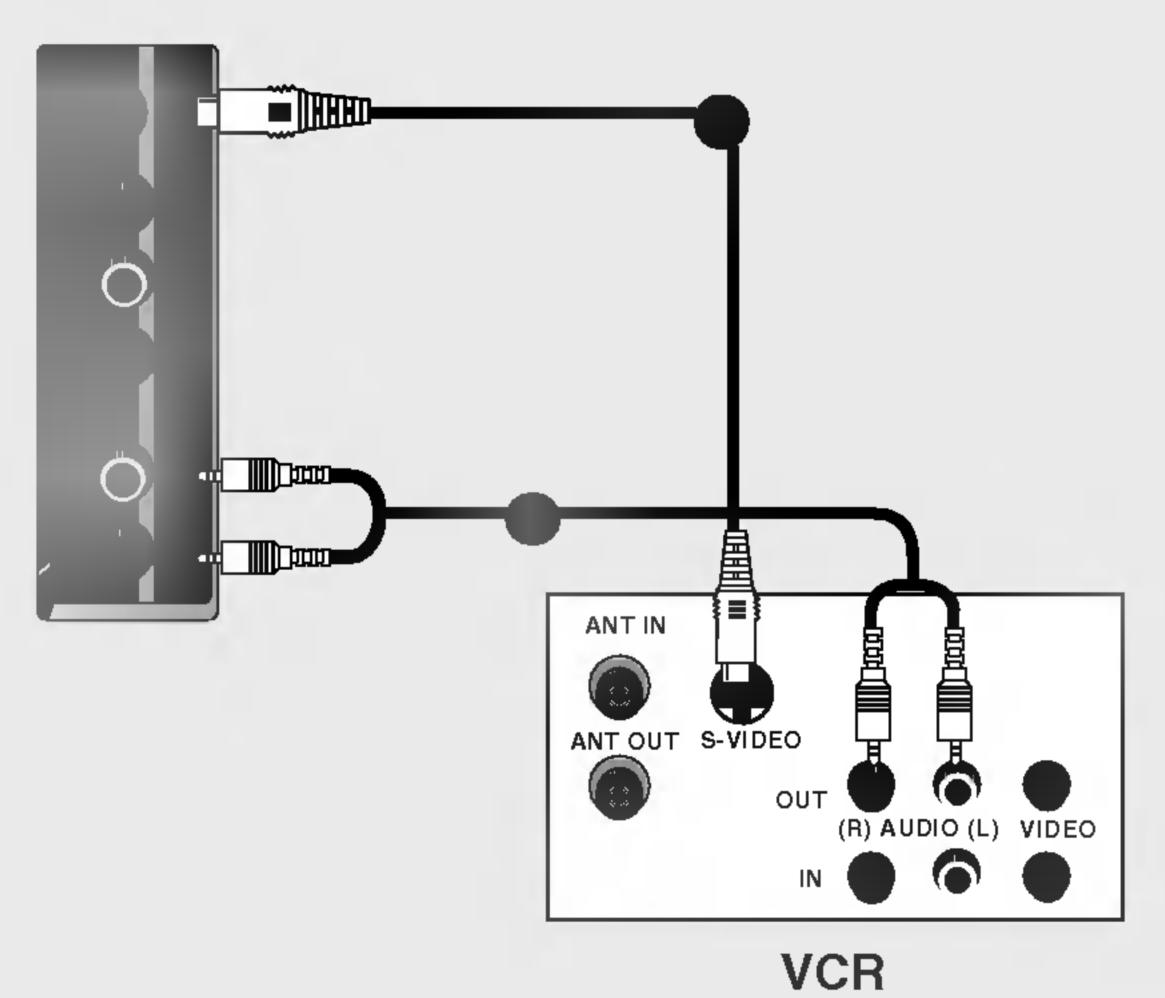


- Connect the ANT OUT socket of the VCR to the ANT IN socket on the set.
- Connect the antenna cable to the ANT IN socket of the VCR.
- Press the PLAY button on the VCR and match the appropriate programme between the TV and VCR for viewing.



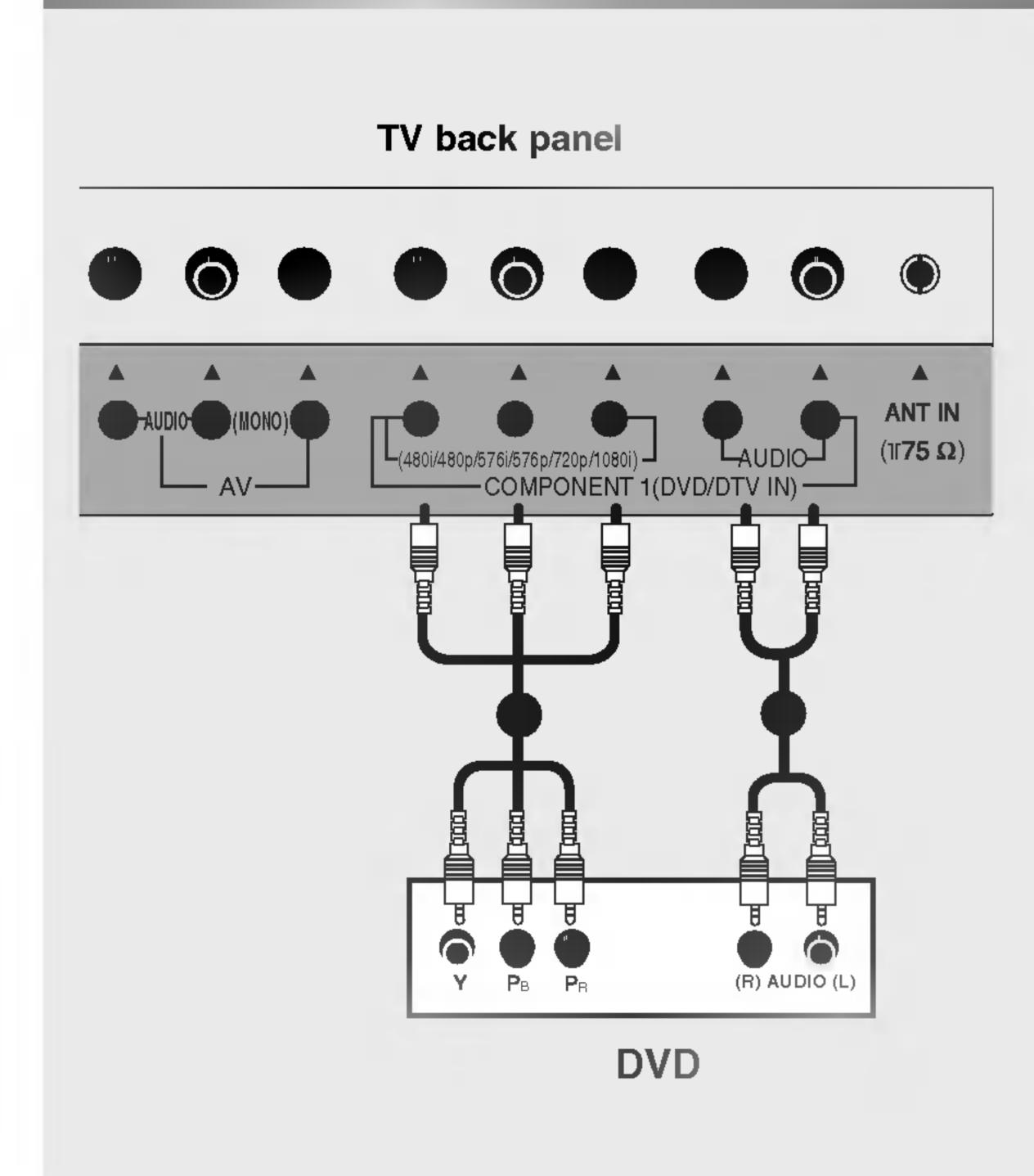
- Connect the AUDIO/VIDEO jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select AV input source with using the TV/AV button on the remote control.

TV side panel



- 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.
- Connect the **AUDIO** jacks between TV and VCR.
- Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- Select S-video input source with using the TV/AV button on the remote control.

External Equipment Connections



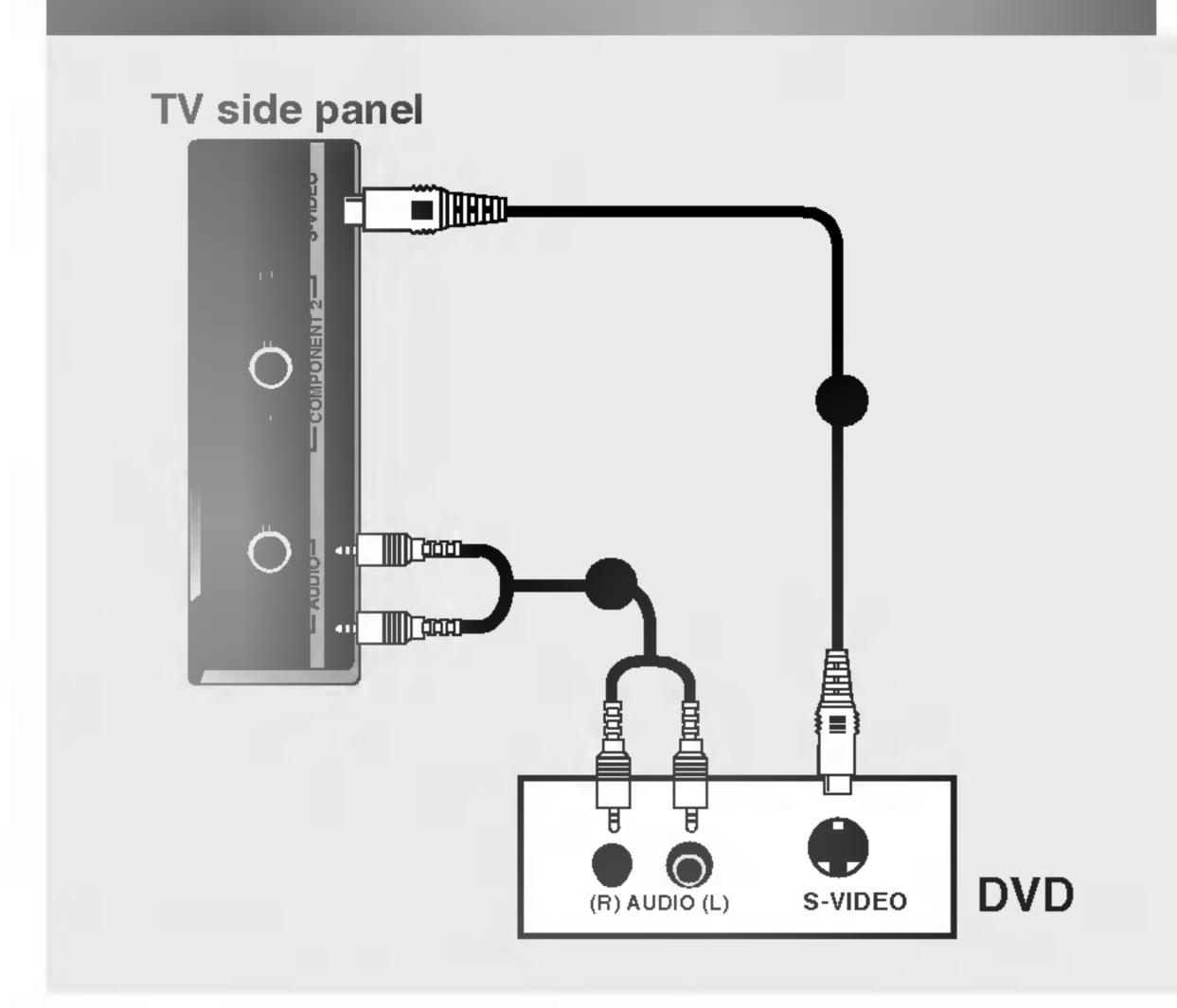
- Connect the video outputs (Y, PB, PR) of the DVD to the COMPONENT1 DVD/DTV IN (Y, PB, PR) jacks on the set.
- Connect the audio outputs of the DVD to the AUDIO input jacks on the set.
- Turn on the DVD player, insert a DVD.
- Select **Component1** input source with using the **TV/AV** button on the remote control.
 - If connected to **COMPONENT2** input, select **Component2** input source.
- 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.

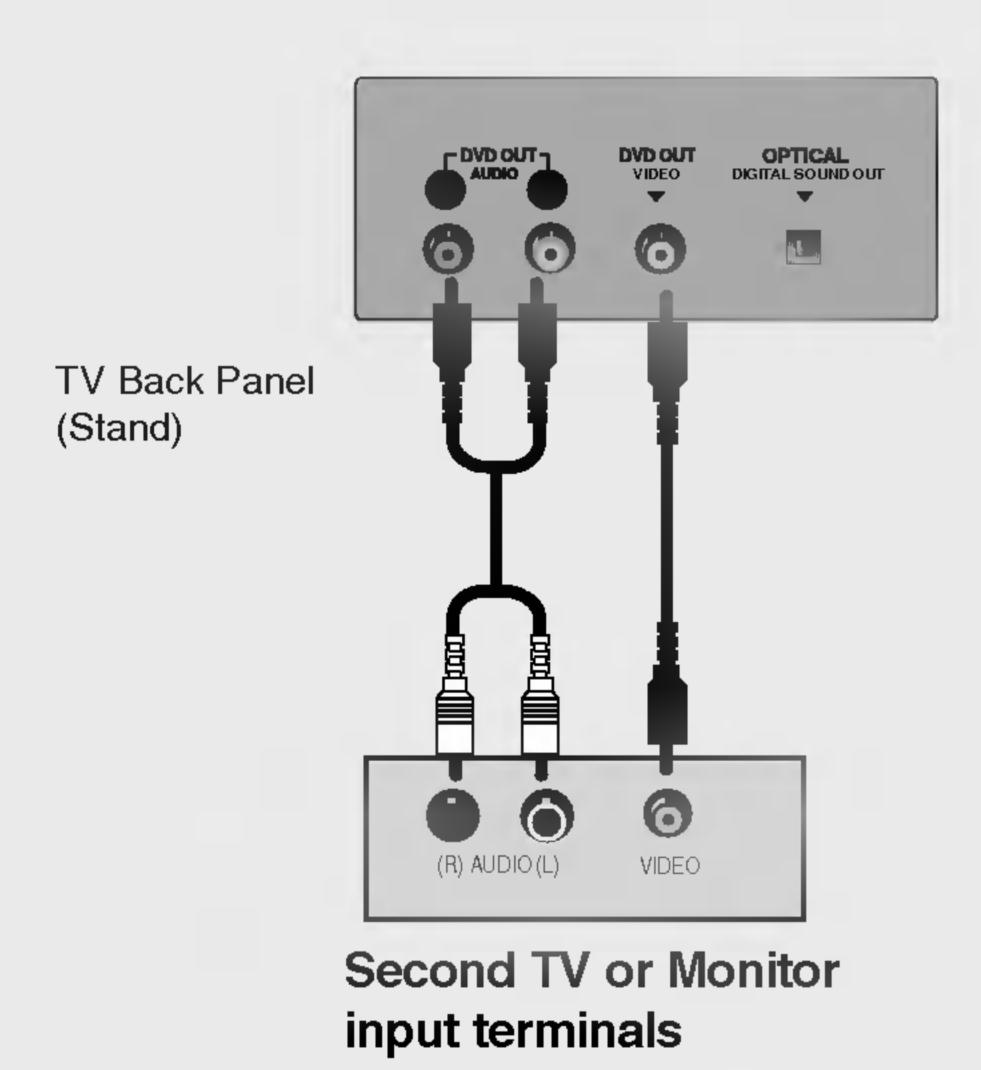
| Component ports on the TV | Υ | Рв | |
|---------------------------|---|-----|-----|
| | Υ | Pb | Pr |
| Video output ports | Υ | B-Y | R-Y |
| on DVD player | Υ | Cb | Cr |
| | Υ | PB | PR |



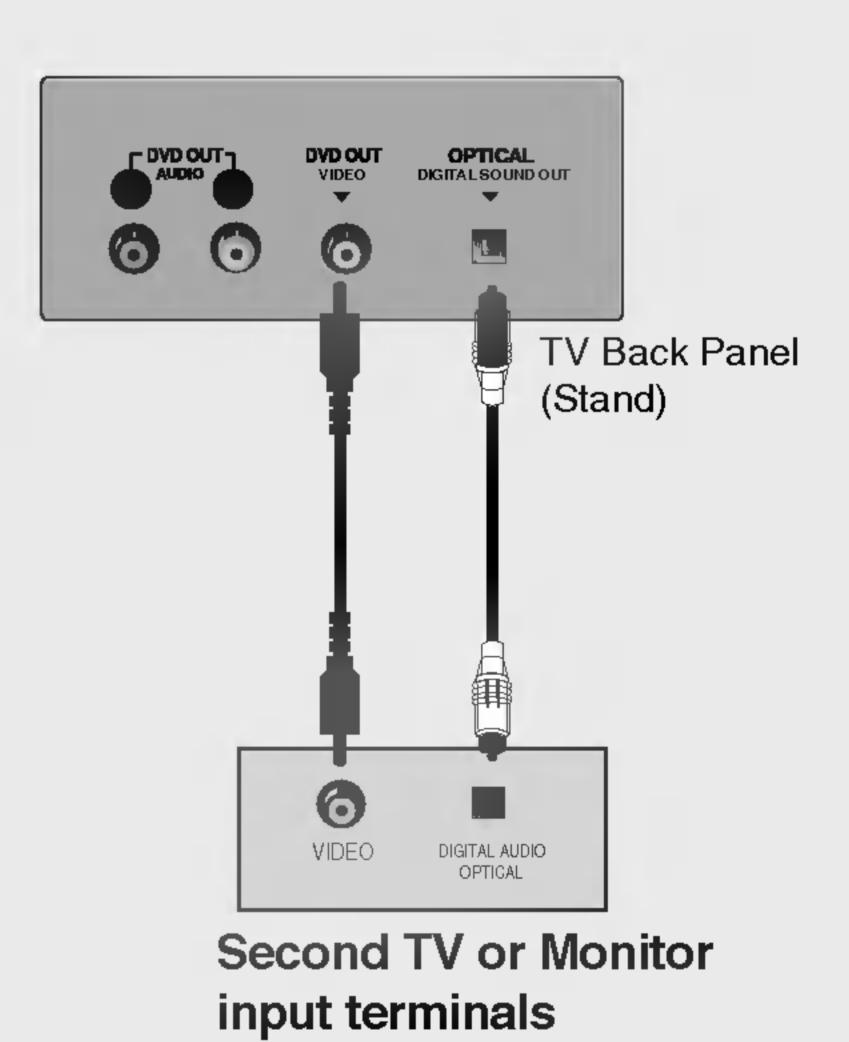
- Connect the S-VIDEO output of the DVD to the S-VIDEO input on the set.
- Connect the audio outputs of the DVD to the AUDIO input jacks on the set.
- Turn on the DVD player, insert a DVD.
- Select **S-video** input source with using the **TV/AV** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

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

- Connect the second TV or monitor to the TV's DVD OUT (VIDEO) and DVD OUT (AUDIO) jacks.
- See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.
- Connect the second TV or monitor to the TV's DVD OUT (VIDEO) and OPTICAL DIGITAL SOUND OUT jacks.
- See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.



OR

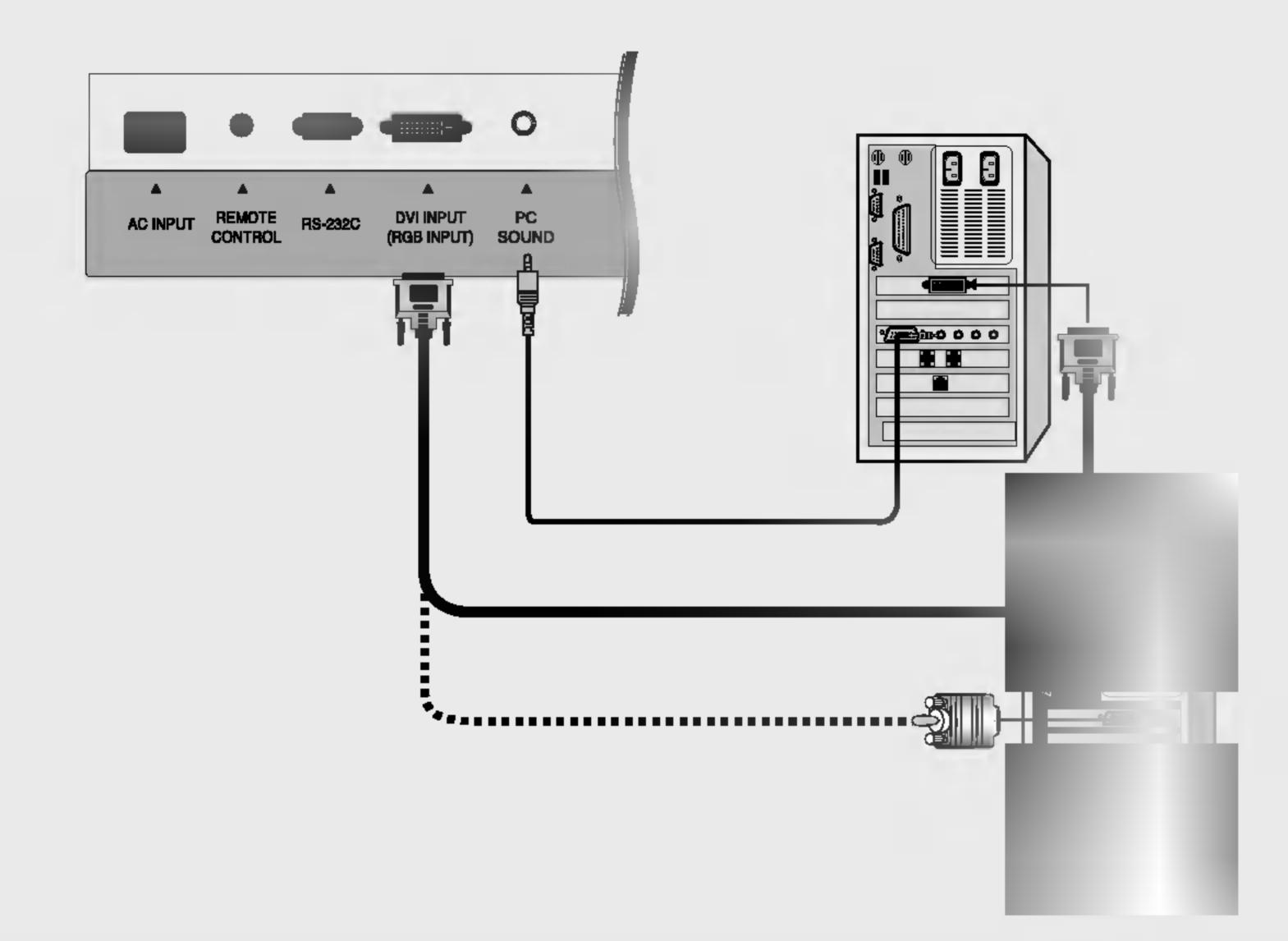


Note

- a. If your second TV or monitor has no optical digital audio input jack, it's impossible to use DVD digital sound output.
- b. Do not look into the optical output port. Looking at the laser beam may damage your vision.
- c. If your external audio equipment has a digital audio input optical port, you can connect it to your TV.

External Equipment Connections

- Connect the TV to the PC with the PC cable.
- Connect the PC audio output to the TV's PC SOUND input.
- Turn on the PC.
- Use the TV/AV button on the remote control to select PC.



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.

Monitor Display Specifications

| Resolution | Horizontal Frequency(kHz) | Vertical Frequency(Hz) |
|------------|------------------------------|---------------------------|
| | 31.47 | 60 |
| 640x480 | 35.00 | 66.67 |
| | 37.50 | 75 |
| | 35.16 | 56.25 |
| 000,4000 | 37.88 | 60 |
| 800x600 | 48.08 | 72.19 |
| | 46.88 | 75 |
| | 48.36 | 60 |
| 1024x768 | 56.48 | 70 |
| | 60.02 | 75 |
| 1280x768 | 47.78 | 60 |

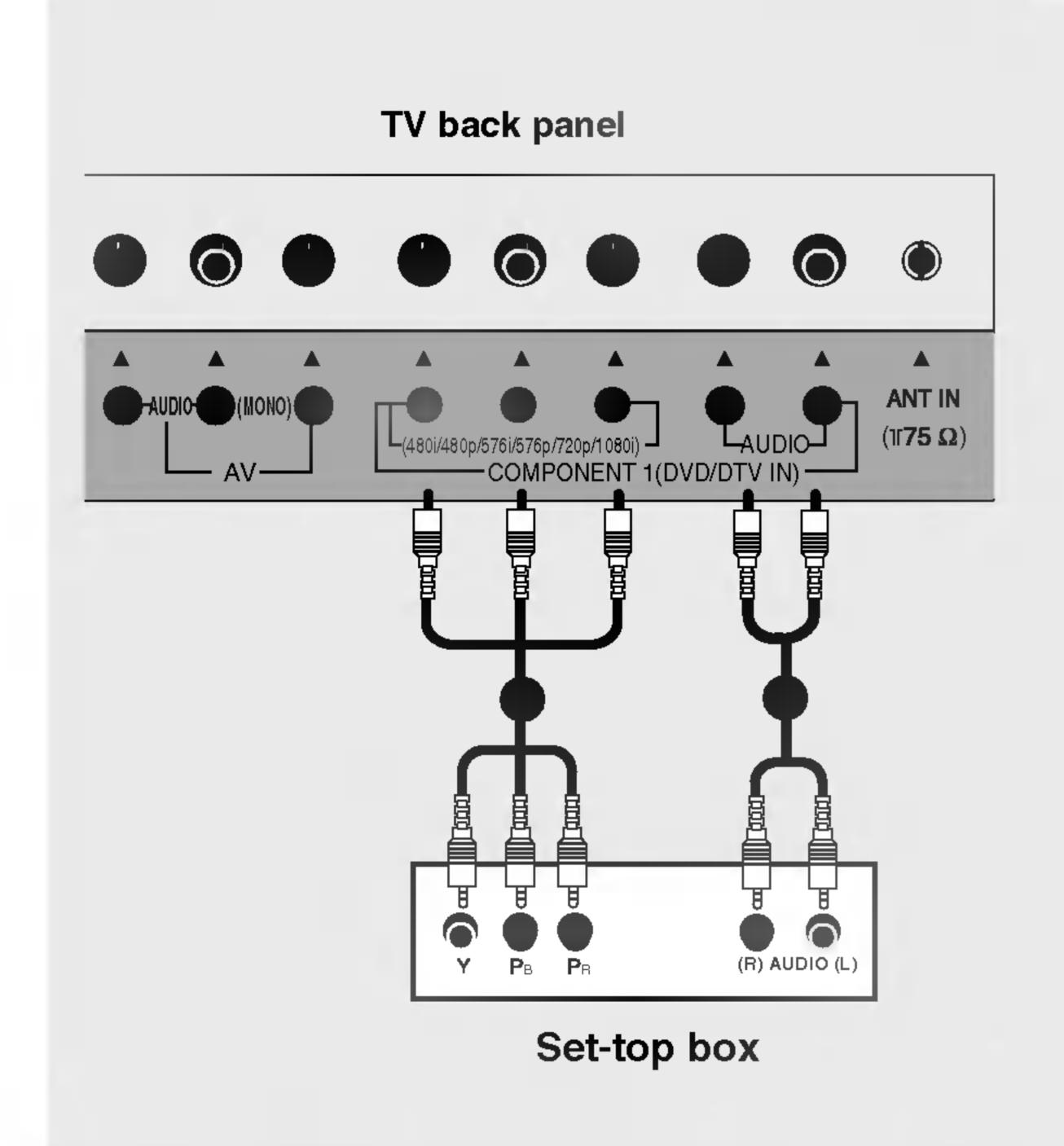
Note Note

- a. For optimum picture quality, use standard WXGA 1280x768 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).
- b. If the message **Out of range** appears on the screen, adjust the PC output to a format listed in the **Monitor Display Specifications** table.
- c. The synchronization input form for Horizontal and Vertical frequencies is separate.

DPM (Display Power Management) mode

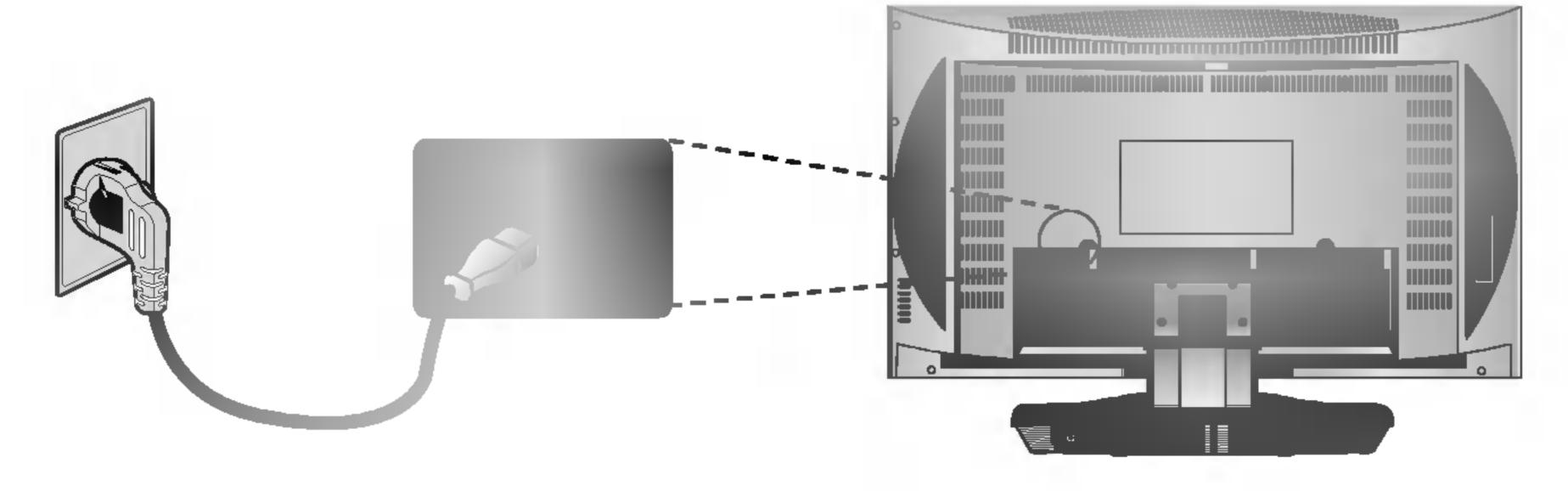
If the PC goes to power saving mode, the monitor automatically switches to DPM mode.

If you don't use the PC cable provided, DPM mode may not work.



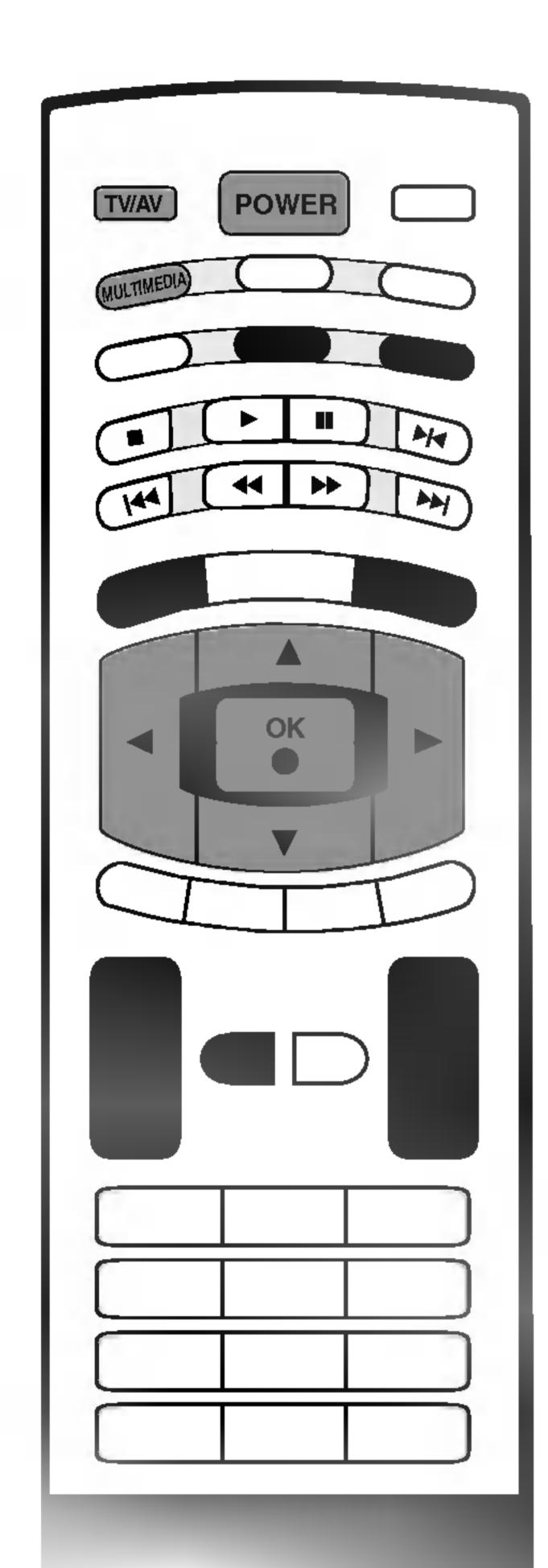
- Connect the video outputs (Y, PB, PR) of the settop box to the COMPONENT1 DVD/DTV IN (Y, PB, PR) jacks on the set.
- Connect the audio outputs of the set-top box to the AUDIO input jacks on the set.
- Turn on the set-top box.
- Select Component1 input source with using the TV/AV button on the remote control.
 - If connected to **COMPONENT2** input, select **Component2** input source.
- Refer to the set-top box manual for operating instructions.

- Connect the power cord correctly as shown.



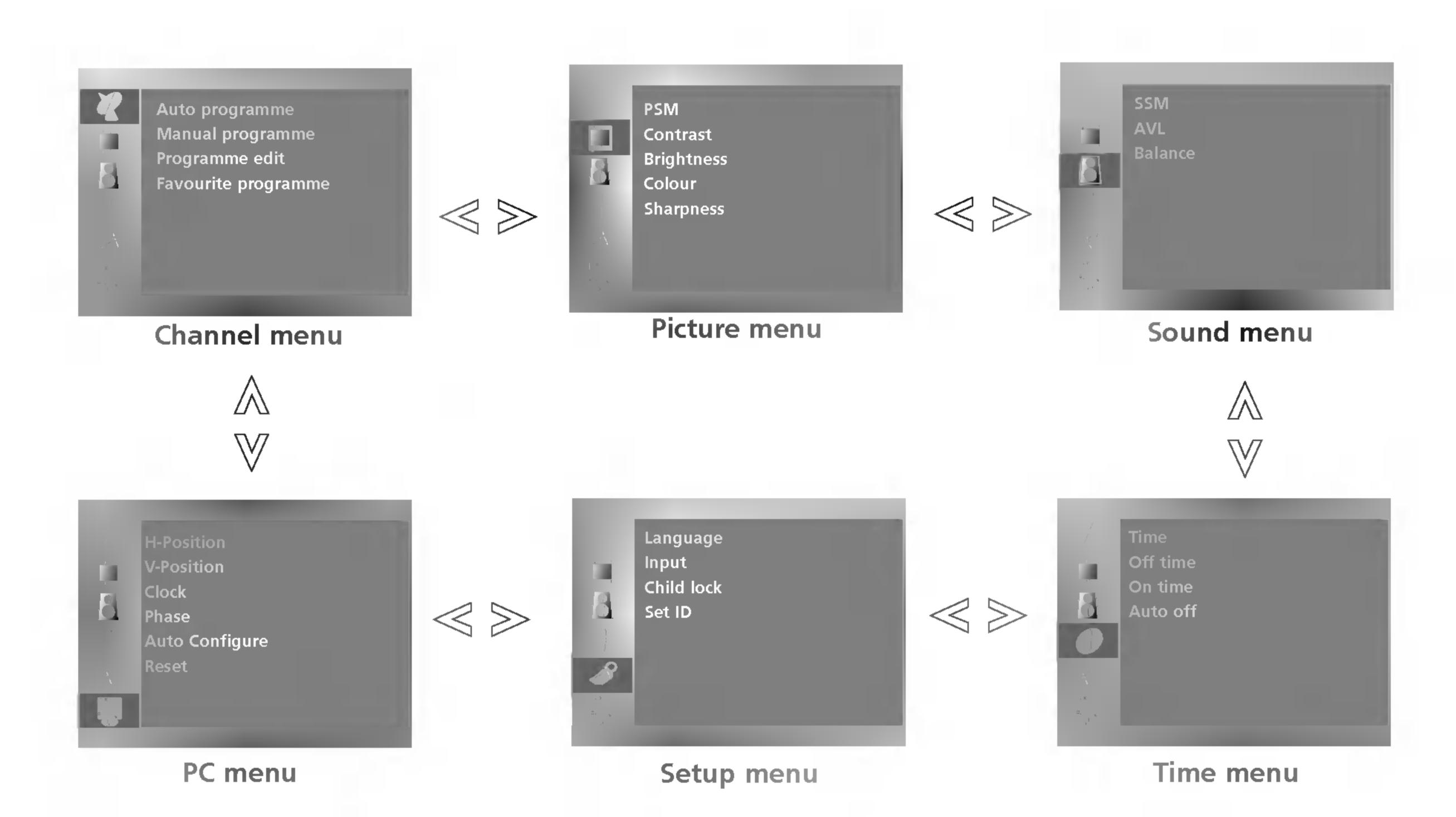
Operation

Basic Operation



- 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/AV, MULTIMEDIA** 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.
- Press the **VOL** \triangle / ∇ 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 ▲ / ▼, I/II or SSM button.
- 1 Press the PR ▲ /▼ or NUMBER buttons to select a programme number.
- Press the **MENU** button and then \triangle / ∇ button to select the **Setup** 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 normal TV viewing.

- 1 Press the MENU button and then \blacktriangle / \blacktriangledown 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.



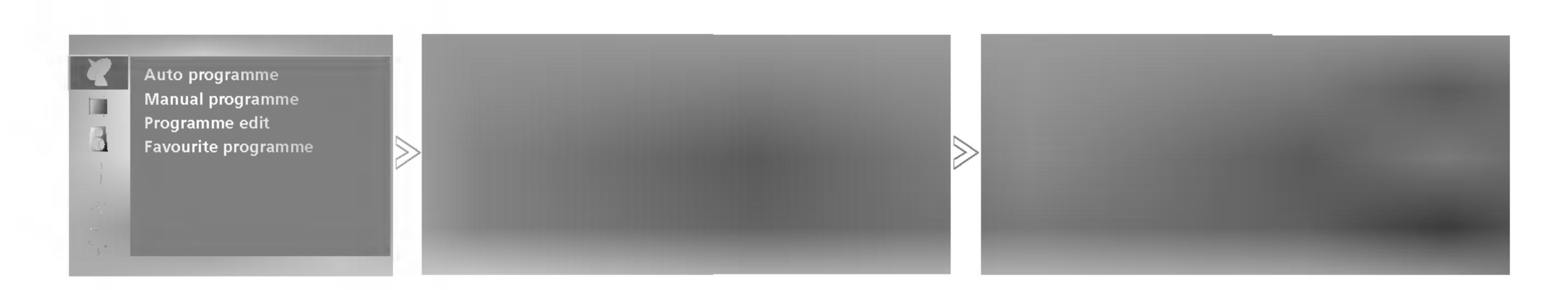


- a. In the TV, AV, S-video, DVD, and Componentl-2 mode, the PC menu(option) is not displayed.
- b. In the teletext mode, menus are not displayed.
- c. On some models, the **Language** will not be displayed.



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 \triangle / ∇ 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.
- \blacksquare Press the MENU button and then \triangle / \blacktriangledown button to select the Channel menu.
- **2** Press the \triangleright button and then \triangle / ∇ button to select **Auto programme**.
- 3 Press the ▶ button. Select a TV system with the ▶ button and then ▲ / ▼ button on the System menu;

BG : PAL B/G, SECAM B/G (Europe/East Europe)

: PAL I/II (U.K./Ireland)

: PAL D/K, SECAM D/K (East Europe)

: SECAM L/L' (France) : (USA/Korea/Philippines) Μ

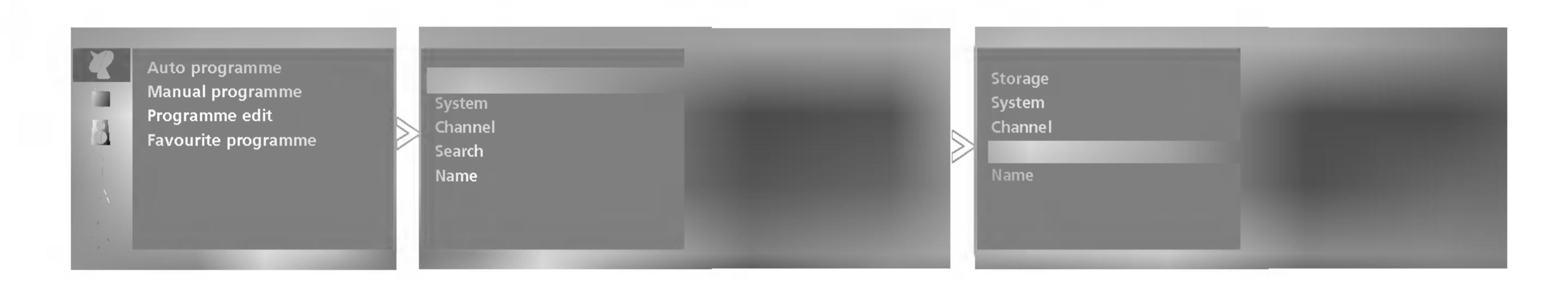
- 4 Press the **OK** button.
- 5 Press the ▲ / ▼ button to select Storage from.
- **6** Select the beginning programme number with the \triangleleft / \triangleright button or NUMBER buttons on the Storage from pull-down menu. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- **7** Press the **OK** button.
- **8** Press the **▲** / **▼** button to select **Search**.
- 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.

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



- Manual programme lets you manually tune and arrange the stations in whatever order you desire.
- 1 Press the MENU button and then \triangle / ∇ button to select the Channel menu.
- 2 Press the ▶ button and then ▲ / ▼ button to select Manual programme.
- **3** Press the \triangleright button and then \triangle / \lor button to select **Storage**.
- 4 Select the desired programme number (0 to 99) with the ◀ / ▶ button or NUMBER buttons on the **Storage** menu. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- **5** Press the **OK** button.
- 6 Press the ▲ / ▼ button to select System.
- **7** Select a TV system with the \triangleright button and then \triangle / \forall button on the **System** menu;

BG: PAL B/G, SECAM B/G (Europe/East Europe)

: PAL I/II (U.K./Ireland)

DK: PAL D/K, SECAM D/K (East Europe)

L : SECAM L/L' (France)

M : (USA/Korea/Philippines)

- 8 Press the OK button.
- 9 Press the ▲ / ▼ button to select Channel.
- 10 Press the ▶ button and then ▲ / ▼ button to select VHF/UHF or Cable on the Channel menu.
 - If possible, press the channel number with the number buttons to commence searching directly. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- 11 Press the OK button.
- 12 Press the ▲ / ▼ button to select Search.
- 13 Press the ▶ button and then ◄ / ▶ button to commence searching. If a station is found the search will stop.
- 14 Press the OK button to store it.
- 15 To store another station, repeat steps 3 to 14.
- 16 Press the EXIT button to return to normal TV viewing.



Setting up TV stations



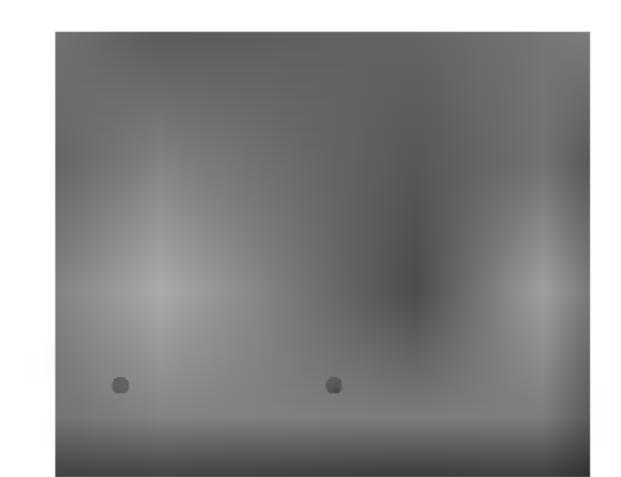




- You can assign a station name to each programme number.
- Press the MENU button and then \triangle / ∇ button to select the Channel menu.
- **2** Press the \triangleright button and then \triangle / \lor button to select Manual programme.
- 3 Press the \triangleright button and then \triangle / \lor button to select Name.
- 4 Press the ▶ button and then use the ▲ / ▼ button. You can use a blank, +, -, the number 0 to 9 and the alphabet A to Z. With the ◀ button you can select in the opposite direction.
- **5** Select the position by pressing the \triangleleft / \triangleright button and then 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.







- This function enables you to delete or skip the stored programmes. Also you can move some stations to other programme numbers or insert a blank station data into the selected programme number.

- 1 Press the MENU button and then \triangle / ∇ button to select the Channel 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 \triangle / ∇ / \triangleleft / \triangleright button.
- 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

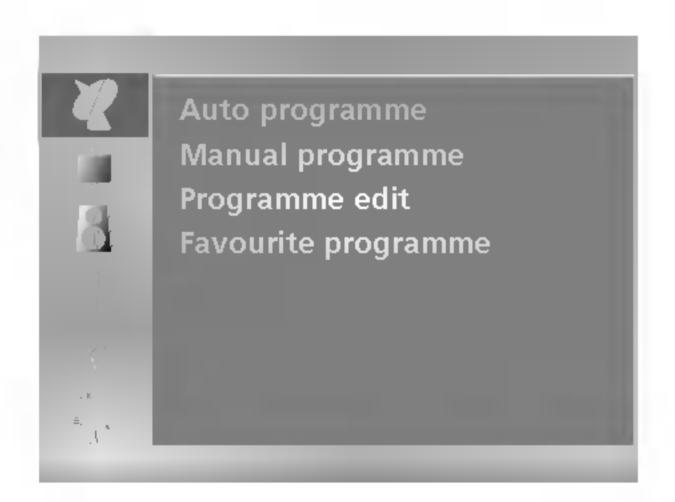
- 1. Select a programme to be moved with the ▲ / ▼ / ◀ / ▶ button.
- 2. Press the YELLOW button.
- 3. Move the programme to the desired programme number with the ▲ / ▼ / ▶ button.
- 4. Press the YELLOW button again to release this function.

Skipping a programme number

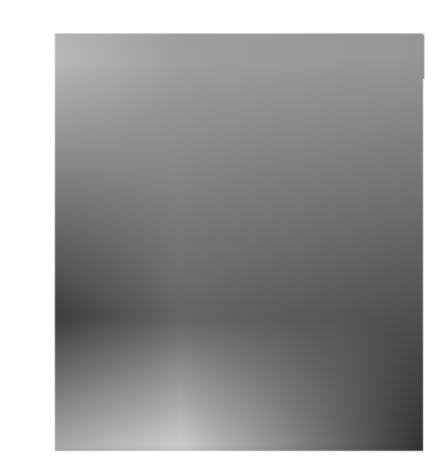
- 1. Select a programme number to be skipped with the \triangle / ∇ / \triangle / button.
- 2. Press the BLUE button. The skipped programme turns to blue.
- 3. Press the BLUE button again to release the skipped programme. When a programme number is skipped it means that you will be unable to select it 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.



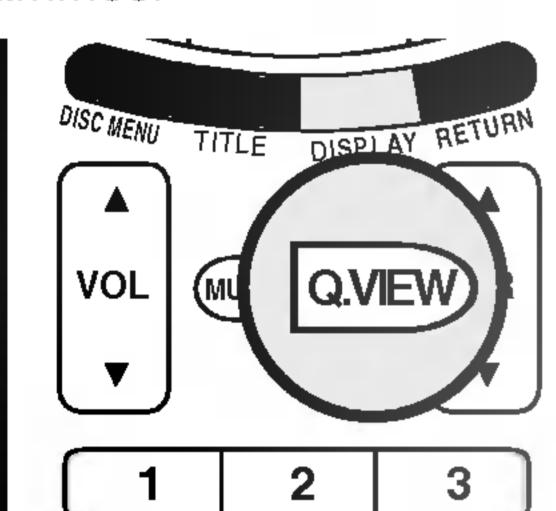
Setting up TV stations





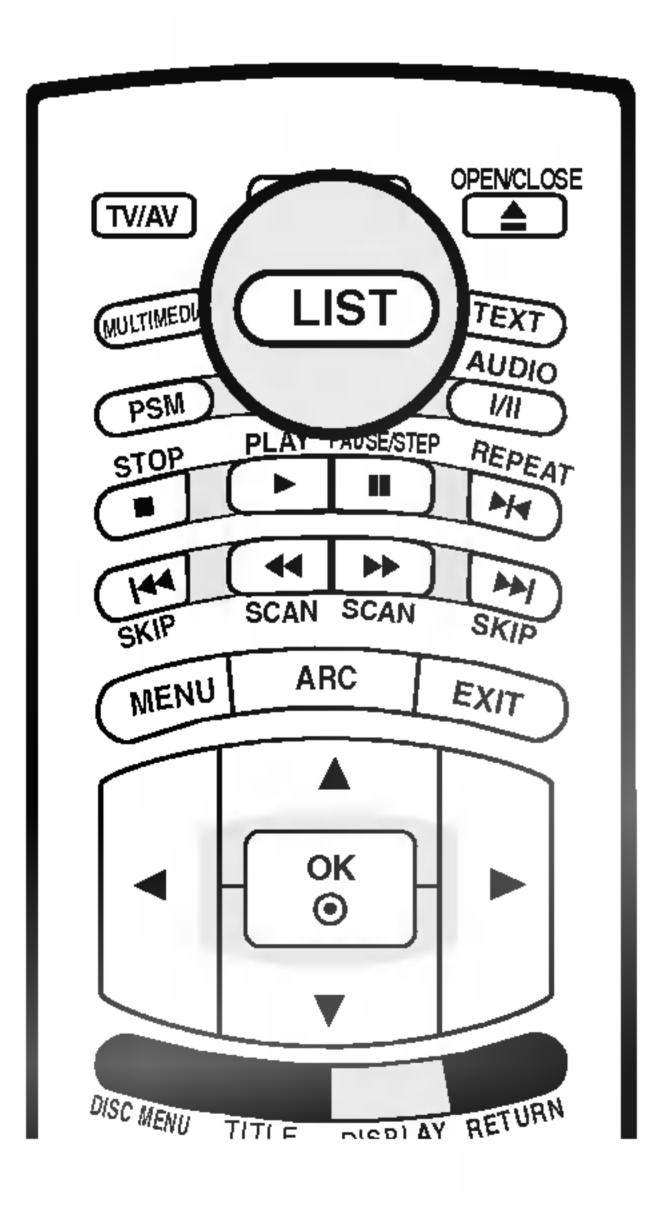


- This function lets you select your favourite programmes directly.
- Repeatedly press the Q.VIEW button to select stored favourite programmes.



- \blacksquare Press the **MENU** button and then \triangle / \blacktriangledown button to select the **Channel** menu.
- **2** Press the \triangleright button and then \triangle / ∇ button to select Favourite programme.
- 3 Press the ▶ button and then ◄ / ▶ button to select On or Off.
- 4 Press the ▲ / ▼ button to select -- ----.
- 5 Select a desired programme with the \triangleleft / \triangleright button.
- 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.

- 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.





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

Selecting a programme in the programme table

Select a programme with the \triangle / ∇ / \triangle 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 \triangle / ∇ / \triangle / \triangleright button repeatedly turns the pages.

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

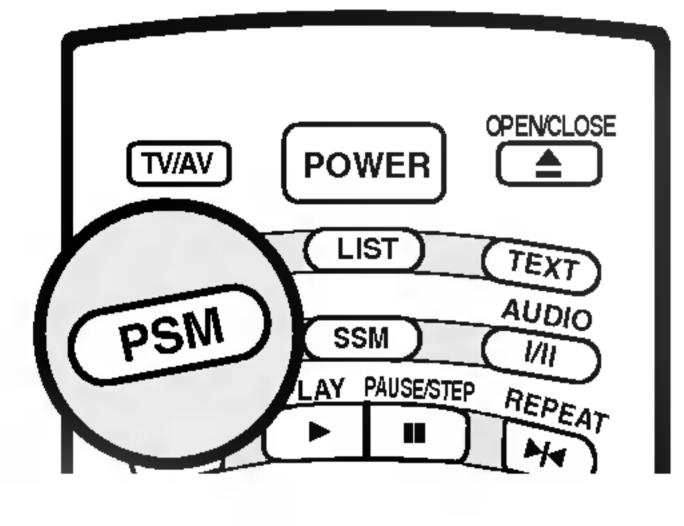


Picture adjustment





- Contrast 'Brightnes*s* Sharpness
- You can also recall a desired picture (Dynamic, Standard, Mild, Game or User) with PSM button on the remote control. The picture **Dynamic**, Standard, Mild and Game are programmed for optimum picture reproduction at the factory and cannot be
- changed.
- \blacksquare Press the **MENU** button and then \triangle / \blacktriangledown button to select the **Picture** menu.
- **2** Press the \triangleright button and then \triangle / \lor button to select **PSM**.
- 3 Press the \triangleright button and then \triangle / \lor button to select a picture setting on the **PSM** menu.
- 4 Press the **EXIT** button to return to normal TV viewing.







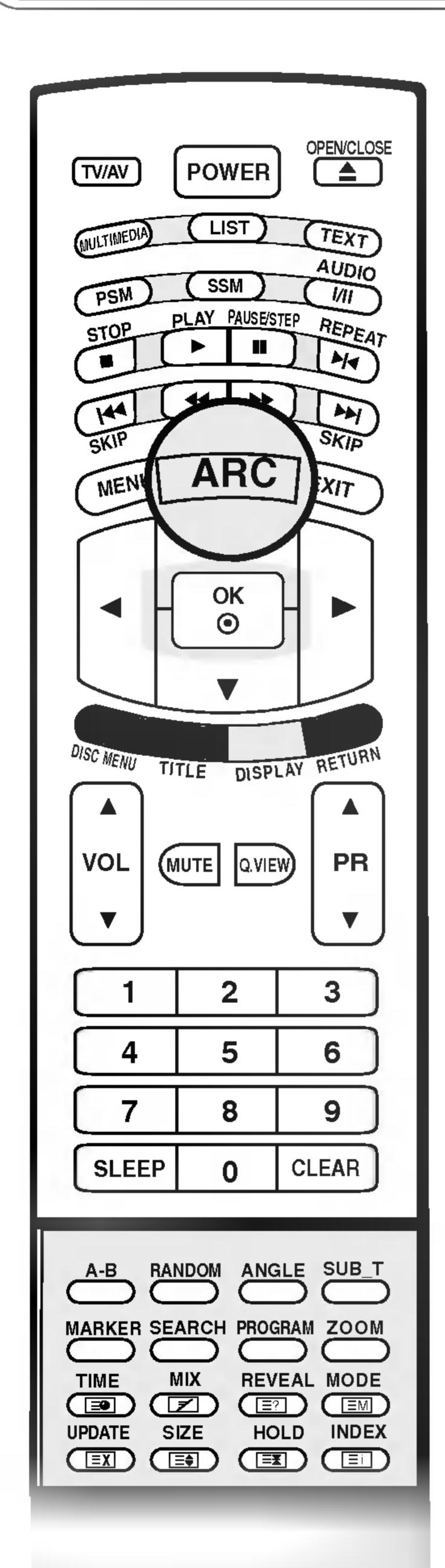
- Brightness Colour Sharpness
- You can adjust picture contrast, brightness, colour intensity, sharpness and tint (NTSC input only) to the levels you prefer.
- Press the MENU button and then \triangle / ∇ button to select the Picture menu.
- **2** Press the \triangleright button and then \triangle / \lor button to select the desired picture item.
- 3 Press the $4 / \triangleright$ button to make appropriate adjustments.
- 4 Press the EXIT button to return to normal TV viewing.



a. Only Contrast and Brightness are displayed in PC mode.



Picture adjustment



- You can watch TV in various picture formats; 16:9, 14:9, Zoom, Auto, 4:3. Repeatedly press the ARC button to select your desired picture format.

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.

Auto

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

4:3

This picture format is 4 to 3 of general TV.



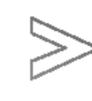
a. In PC mode only 16:9 and 4:3 aspect ratios are available.

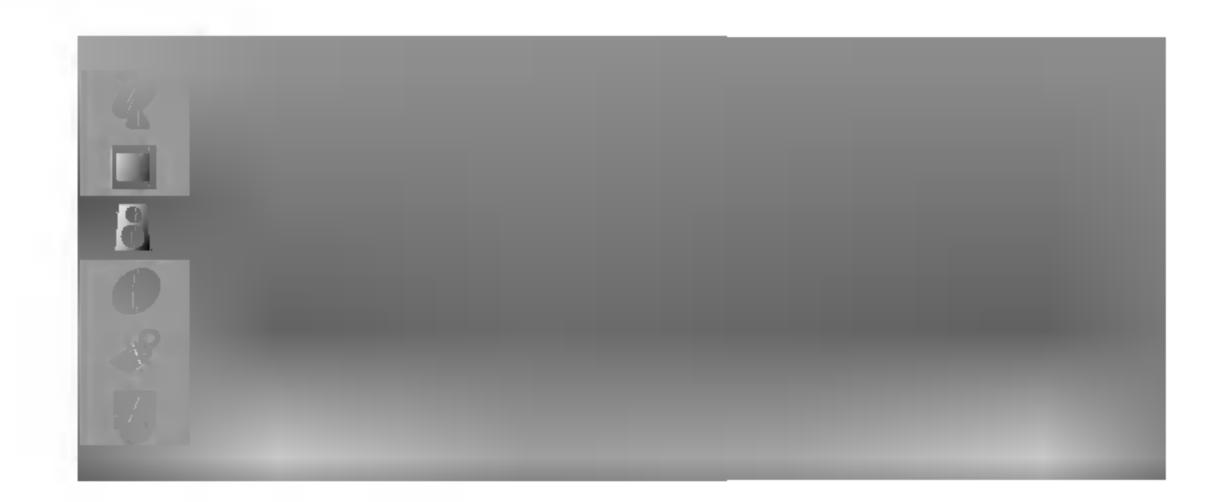


Sound adjustment

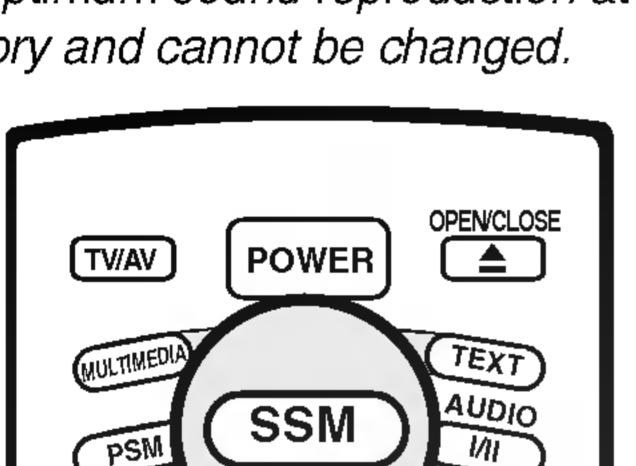
If you enter the SSM button after making appropriate adjustment on the User sub menu, the display User automatically appears even though you have already set a factory preset setting; Flat, Music, Movie or Speech.



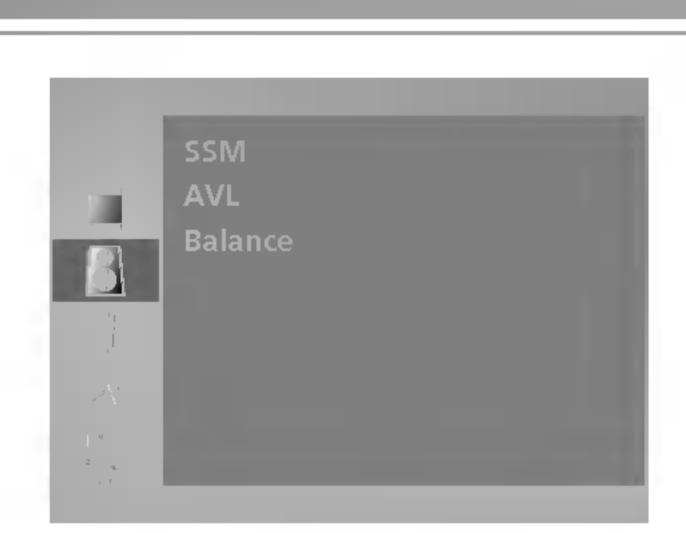




- You can also recall a desired sound setting (Flat, Music, Movie, Speech or User) with SSM button on the remote control. The sound settings Flat, Music, Movie and Speech are programmed for optimum sound reproduction at the
- factory and cannot be changed.



- \blacksquare Press the **MENU** button and then \triangle / \blacksquare button to select the **Sound** menu.
- **2** Press the \triangleright button and then \triangle / \lor button to select **SSM**.
- **3** Press the \triangleright button and then use the \triangle / \blacktriangledown button to select the appropriate sound option; Flat, Music, Movie, Speech.
- 4 Press the **EXIT** button to return to normal TV viewing.





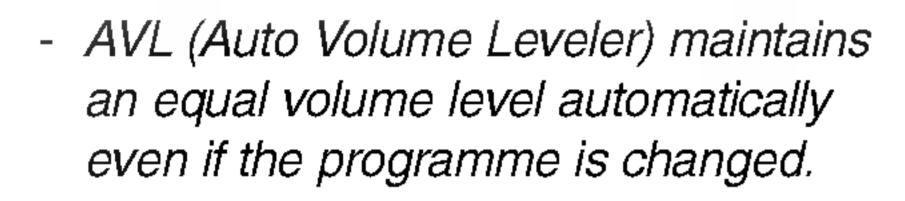


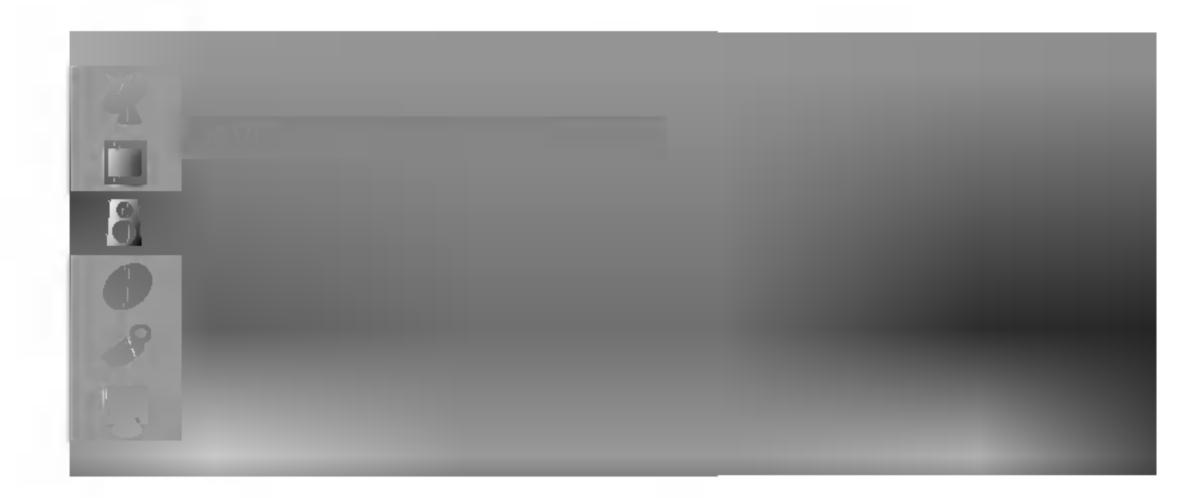
- 1 Press the MENU button and then \triangle / ∇ button to select the Sound menu.
- **2** Press the \triangleright button and then \triangle / \lor button to select **SSM**.
- $\mathbf{3}$ Press the \triangleright button and then use the \blacktriangle / \blacktriangledown button to select **User**.
- 4 Press the ▶ button and then use the ◀ / ▶ button to select the band you want to adjust. Then, use the ▲ / ▼ button to adjust the band level.
- 5 Press the EXIT button to return to normal TV viewing.



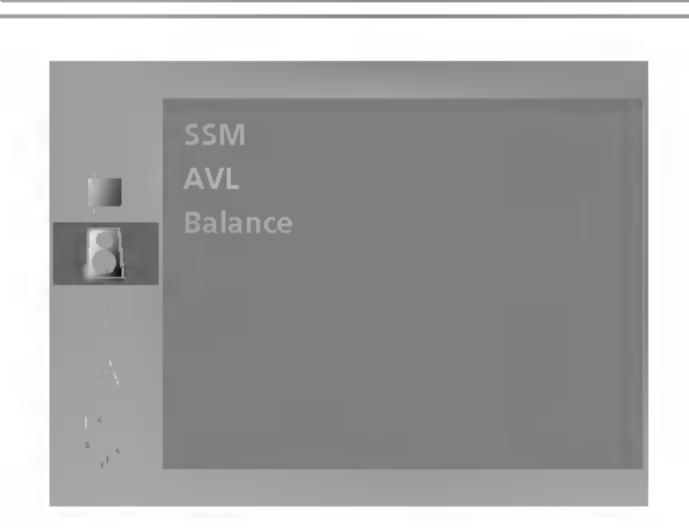
Sound adjustment







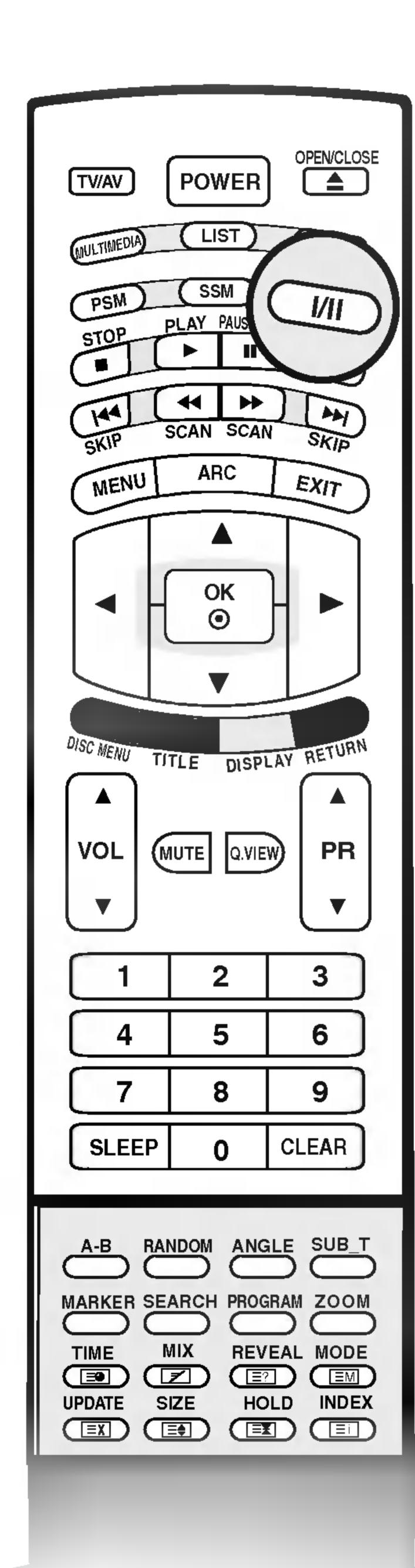
- 1 Press the MENU button and then \blacktriangle / \blacktriangledown button to select the Sound menu.
- 2 Press the ▶ button and then ▲ / ▼ button to select AVL.
- 3 Press the ▶ button and then use the ▲ / ▼ button to select On or Off.
- 4 Press the **EXIT** button to return to normal TV viewing.







- 1 Press the MENU button and then \blacktriangle / \blacktriangledown button to select the Sound menu.
- **2** Press the \triangleright button and then \blacktriangle / \blacktriangledown button to select **Balance**.
- 3 Press the ▶ button and then use the ◀ / ▶ button to adjust the sound balance.
 - Balance is adjustable from Left 50 to Right 50.
- 4 Press the **EXIT** button to return to normal TV viewing.



■ 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 (option)

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

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

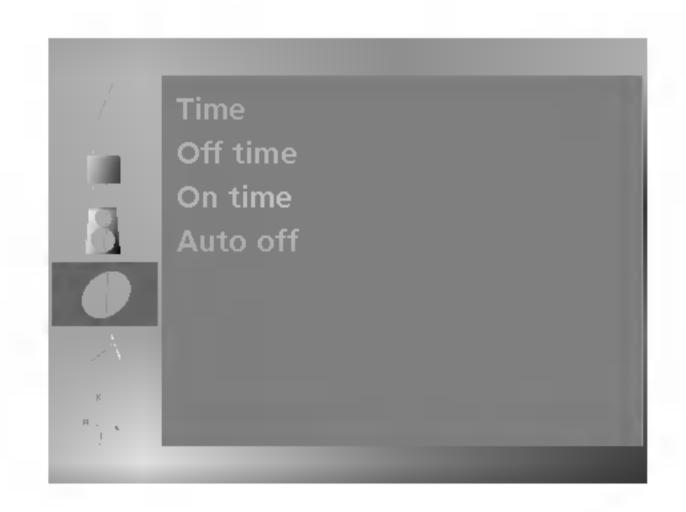
- 1. When NICAM mono is received, you can select NICAM MONO or FM MONO.
- 2. When NICAM stereo is received, you can select NICAM STEREO or FM MONO. If the stereo signal is weak, switch to FM mono.
- 3. When NICAM dual is received, you can select NICAM DUAL I, NICAM DUAL II or NICAM DUAL I+II or MONO.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

Sound output selection

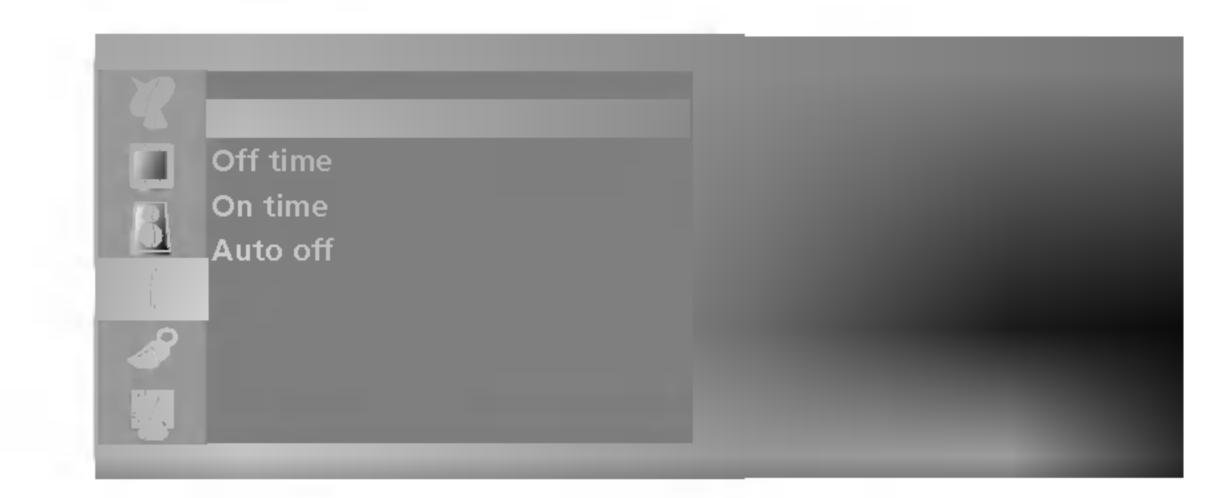
In AV mode, you can select output sound for the left and right loud-speakers. Repeatedly press the I/II button to select the sound output.

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

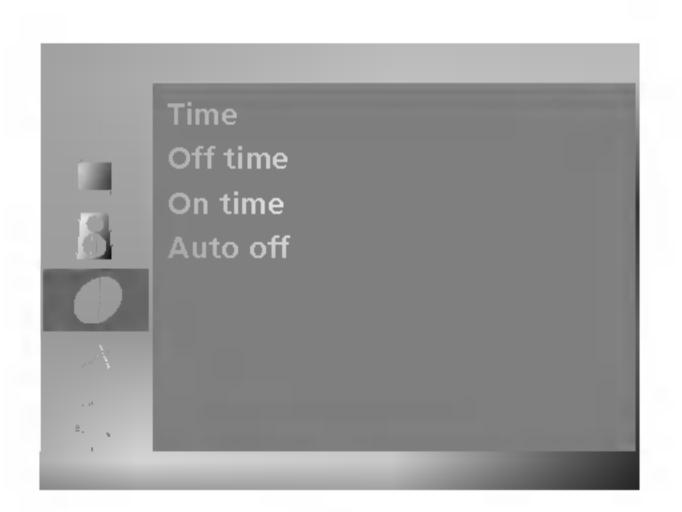
Time menu

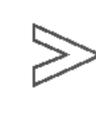


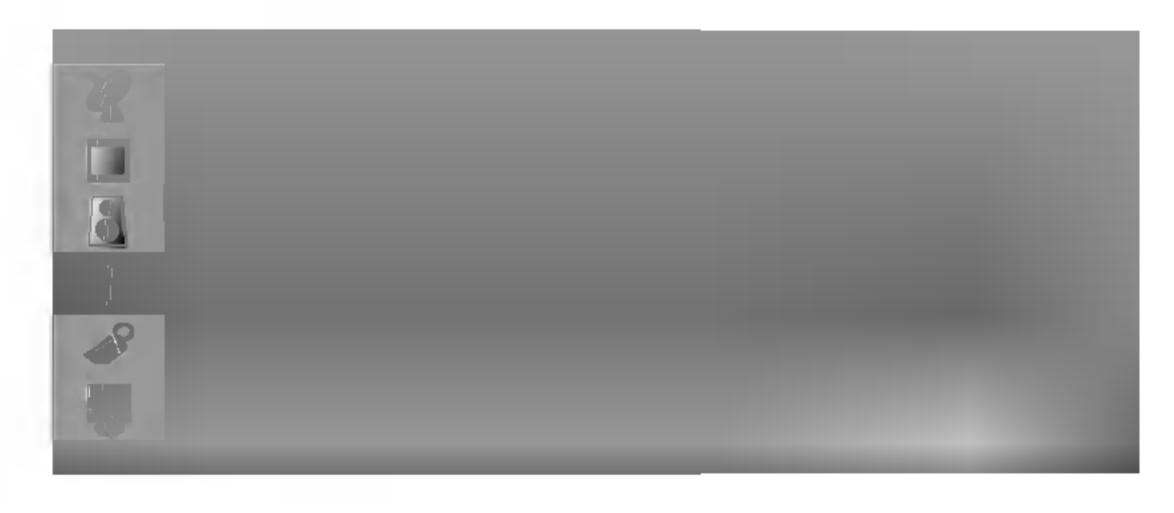




- You must set the time correctly before using on/off time function.
- 1 Press the **MENU** button and then \triangle / ∇ button to select the **TIME** menu.
- **2** Press the \triangleright button and then \triangle / \blacktriangledown button to select **TIME**.
- 3 Press the ▶ button and then ▲ / ▼ button to adjust the hour.
- 4 Press the ▶ button and then ▲ / ▼ button to adjust the minute.
- **5** Press the **EXIT** button to return to normal TV viewing.



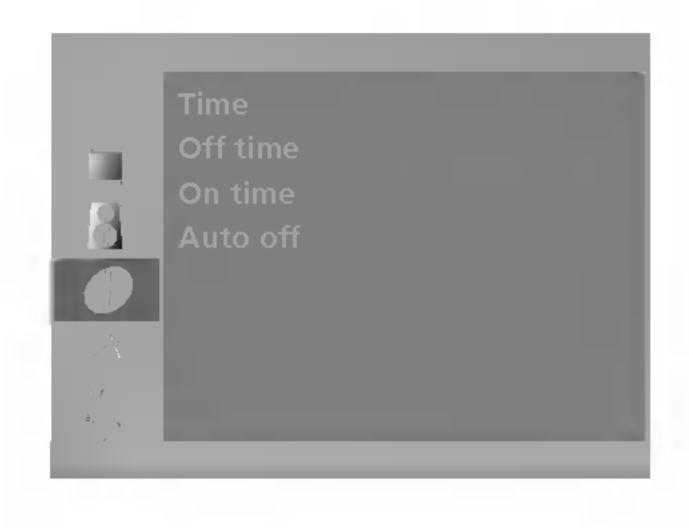




- The off timer automatically switches the set to standby at the preset time.
- 1 Press the MENU button and then \triangle / ∇ button to select the TIME menu.
- **2** Press the \triangleright button and then \triangle / ∇ button to select **Off time** or **On time**.
- 3 Press the ▶ button and then ▲ / ▼ button to adjust the hour.
- **4** Press the \triangleright button and then \triangle / ∇ button to adjust the minute.
- **5** Only On time function; Press the ▶ button and then ▲ /▼ button to adjust volume level and programe number.
- 6 Press the ▶ button and then ▲ / ▼ button to select On.
 To cancel On/Off time function, press the ▲ / ▼ button to select Off.
- 7 Press the EXIT button to return to normal TV viewing.

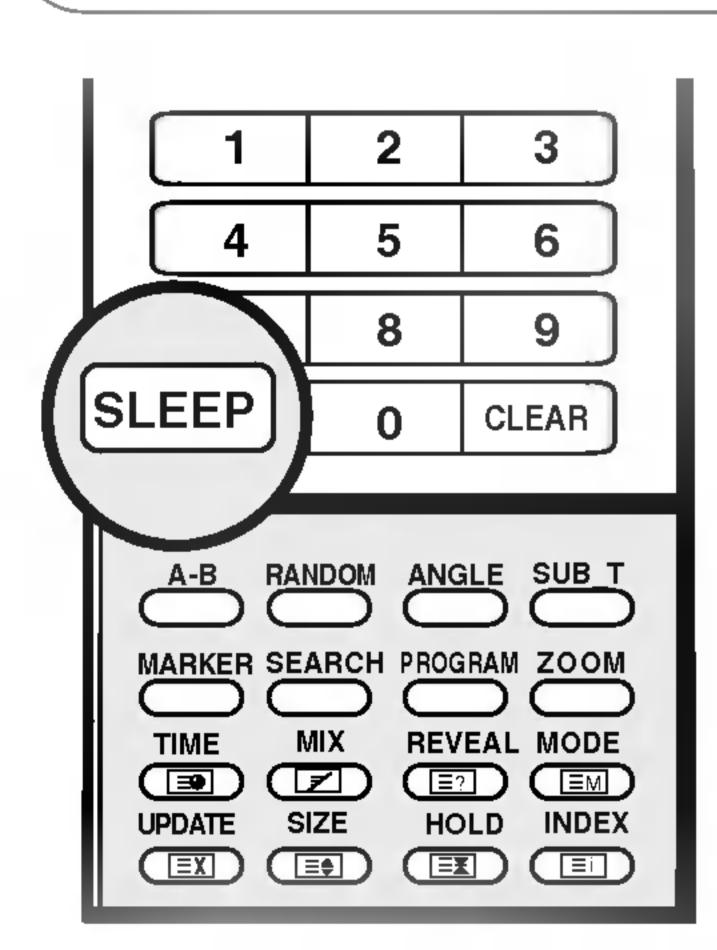
Note Note

- 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.





- If you select On on the Auto off menu, the set will automatically switch itself to standby mode approximately ten minutes after a TV station stops broadcasting.
- In the Component, DVD, or PC mode, Auto off is not available.
- 1 Press the MENU button and then \triangle / ∇ button to select the TIME menu.
- 2 Press the ▶ button and then ▲ / ▼ button to select Auto off.
- 3 Press the button and then ▲ / V button to select On or Off.
- 4 Press the EXIT button to return to normal TV viewing.

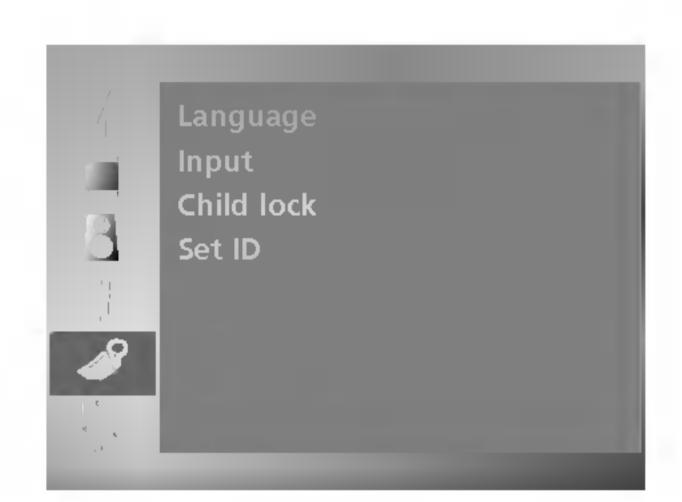


- Press the **SLEEP** button repeatedly to select the number of minutes. First the \mathcal{O}^{zZ} off option appears on the screen, followed by the following sleep timer options: 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
- 2 The timer begins to count down from the number of minutes selected.
- **3** To check the remaining minutes before the TV turns off, press the **SLEEP** button once.
- 4 To cancel the Sleep Timer, press the SLEEP button repeatedly until off appears.



- 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.



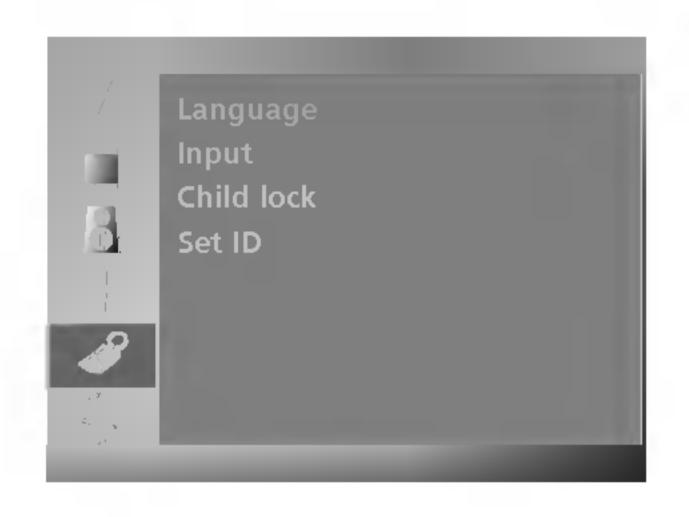




- Alternatively you can select the TV or AV mode by pressing the TV/AV button.
- In **AV**, **Component**, or **PC** mode, to return to TV mode, press the **PR** ▲ / ▼ or NUMBER buttons.



- 1 Press the MENU button and then \blacktriangle / \blacktriangledown button to select the **Setup** menu.
- 2 Press the ▶ button and then ▲ / ▼ button to select Input.
- 3 Press the ▶ button and then use the ▲ / ▼ button to select TV, AV, S-video, DVD, Component1, Component2, or PC
- 4 Press the EXIT button to return to normal TV viewing.







- 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.
- With the lock on, the display Child
 lock appears on the screen if any but ton on the side panel is pressed while
 viewing the TV.
- 1 Press the MENU button and then \triangle / ∇ button to select the Setup menu.
- **2** Press the \triangleright button and then \blacktriangle / \blacktriangledown button to select **Child lock**.
- $\mathbf{3}$ Press the ▶ button and then \mathbf{A} / \mathbf{V} button to select \mathbf{On} or \mathbf{Off} .
- 4 Press the **EXIT** button to return to normal TV viewing.

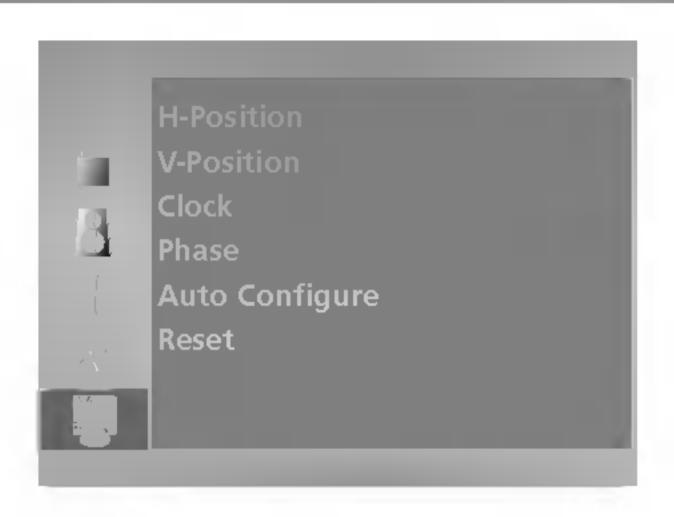


Note

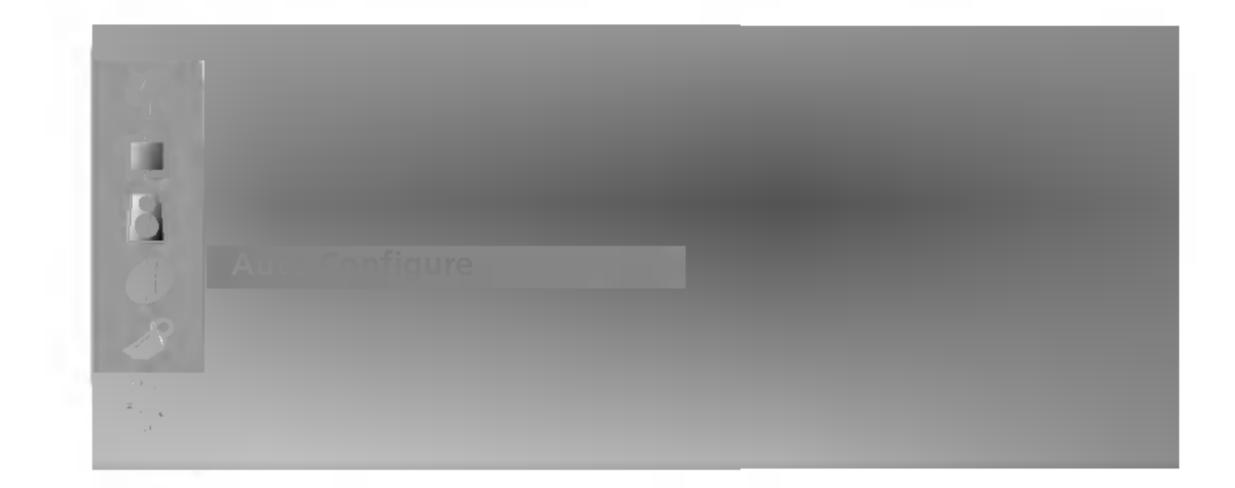
a. The display Child lock will not appear on the screen if any button on the panel is pressed while displaying the menus.

PC menu

After setup, be sure to select **PC** source to see the PC image the on TV screen.







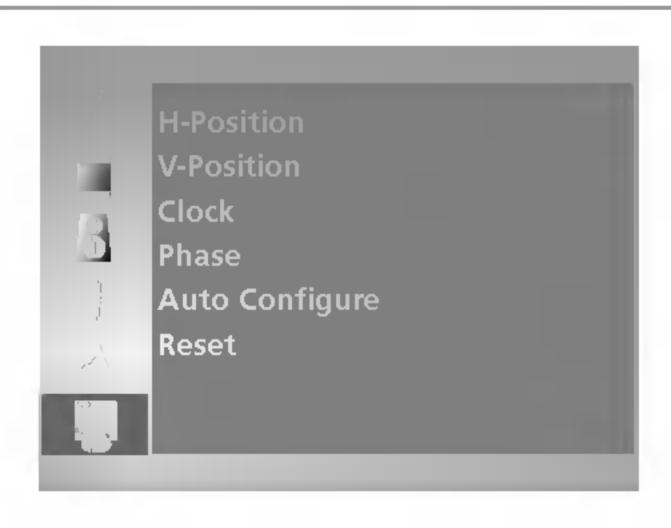
- Automatically adjusts the screen position, clock, and phase. (The displayed image will disappear for a few sectored onds while Auto-configuration is in progress.)
- Press the MENU button and then use the ▲ / ▼ button to select the PC menu.
- 2 Press the ▶ button and then use the ▲ / ▼ button to select Auto Configure.
- 3 Press the ▶ button to start Auto Configure.
 - If the position of the image is still not correct, try Auto adjustment again.



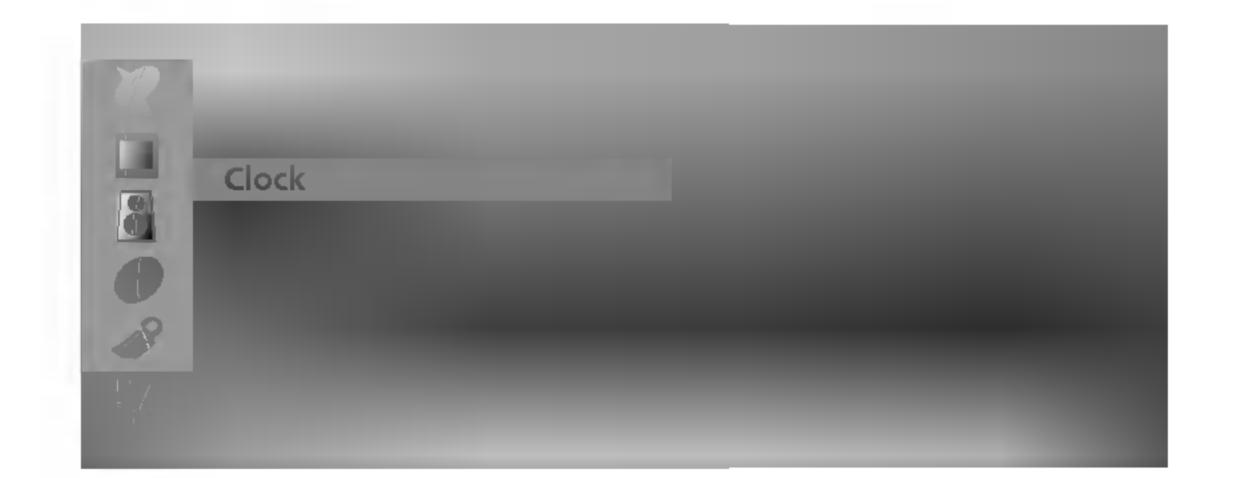




- H position / V Position
 This function is to adjust picture to left/right and up/down as you prefer.
- Press the MENU button and then use the \triangle / ∇ button to select the PC menu.
- 2 Press the ▶ button and then use the ▲ / ▼ button to select H-Position or V-Position.
- 3 Use the ◀ / ► button to make appropriate adjustments.
- 4 Press the EXIT button to return to normal TV viewing.







Clock

This function is to minimize any vertical bars or stripes visible on the screen back-ground. And the horizontal screen size will also change.

Phase

This function allows you to remove any horizontal noise and clear or sharpen the image of characters.

- Press the MENU button and then use the \triangle / ∇ button to select the PC menu.
- **2** Press the \triangleright button and then use the \triangle / \blacktriangledown button to select **Clock** or **Phase**.
- 3 Use the ◀ / ▶ button to make appropriate adjustments.
- 4 Press the **EXIT** button to return to normal TV viewing.





- Returns to the default settings programmed at the factory; default settings cannot be changed.



- Press the MENU button and then use the \triangle / ∇ button to select the PC menu.
- 2 Press the ▶ button and then use the ▲ / ▼ button to select Reset.
- 3 Press the ▶ button to start Reset.

Teletext

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

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 (option)

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

■ Block / group / page selection

- 1. With the blue button you can progress from block to block.
- 2. Use the yellow button to proceed to the next group with automatic overflow to the next block.
- 3. With the green button you can proceed to the next existing page with automatic overflow to the next group. Alternatively the 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 NUM-BER 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



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.

EX UPDATE

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,

PR ▲ / ▼ or NUMBER buttons.

Press again to exit this function.

Notes on Discs

Symbol Used in this Manual

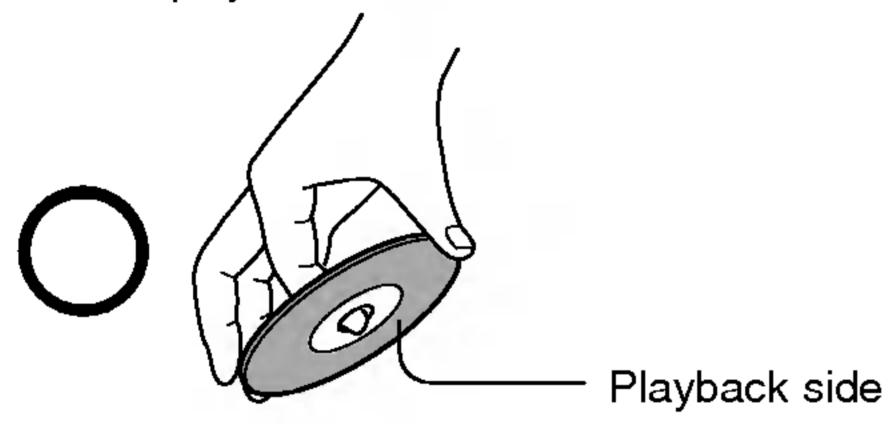


may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific DVD video disc.

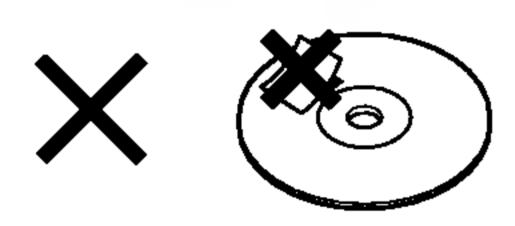
On handling discs

 \oslash

• Do not touch the playback side of the disc.

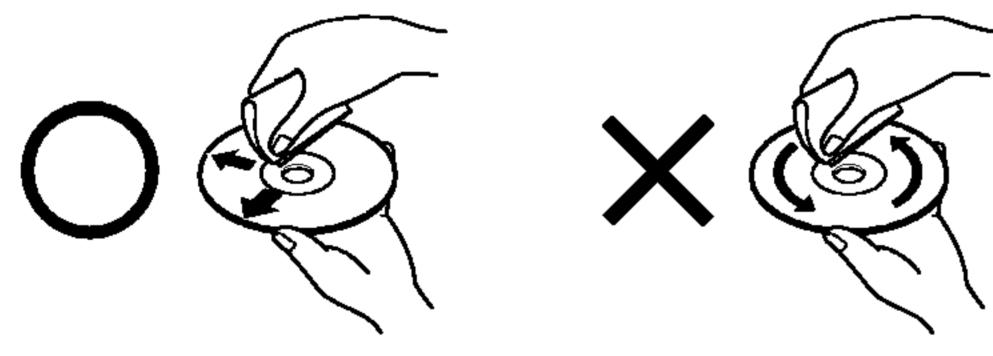


Do not attach paper or tape to discs.



On cleaning discs

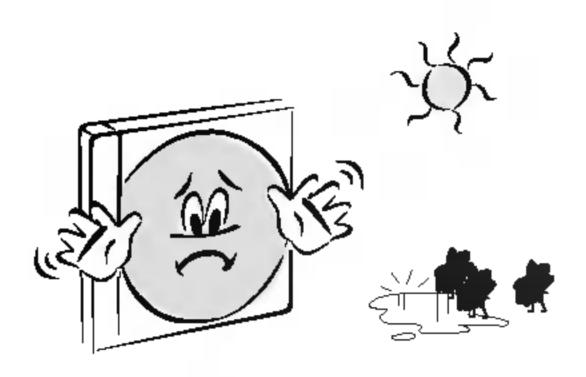
 Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



 Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

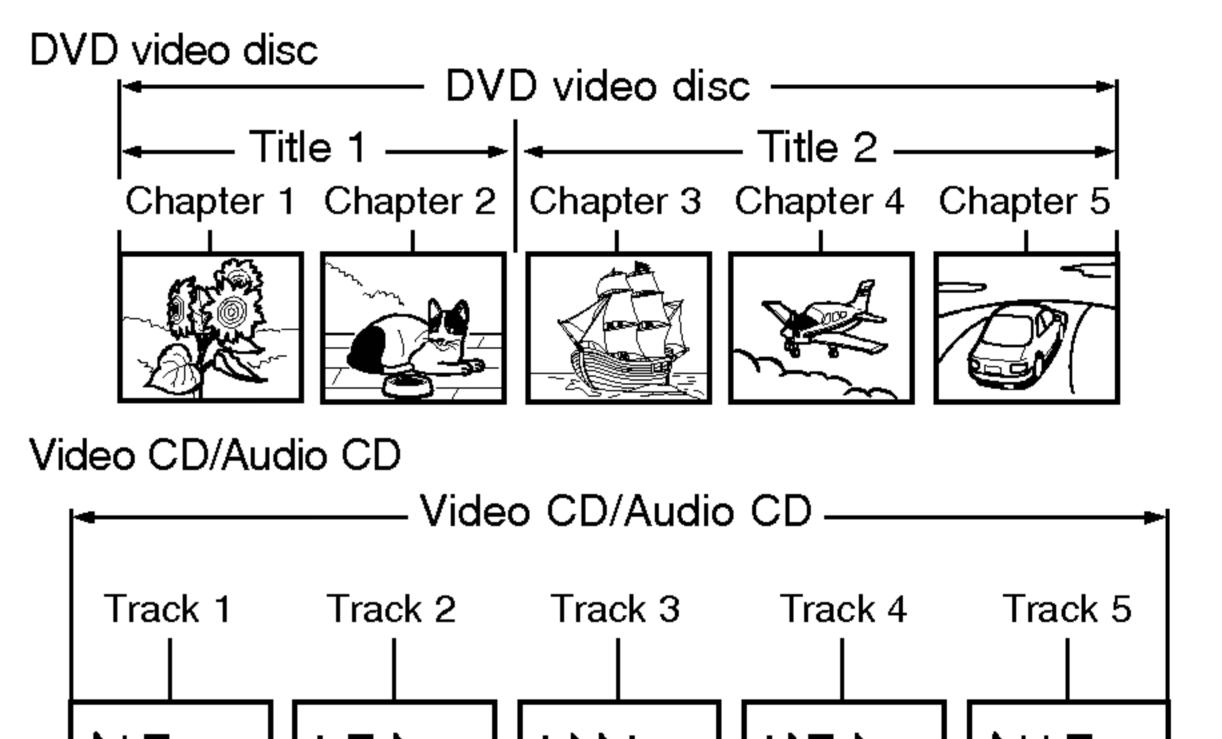
On storing discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.



Structure of disc contents

Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. Video CDs and Audio CDs are divided into tracks.



Each title, chapter or track is assigned a number, which is called "title number", "chapter number" or "track number" respectively. There may be discs that do not have these numbers.

- •Title: When two or more movies are recorded on a disc, the disc is divided into two or more parts. Each part is called a "TITLE".
- Chapter: The titles can be subdivided into many sections.
 Each section is called a "CHAPTER".
- Track: An audio CD can contain several items. These are assigned to the tracks.

Note

 If an MP3 or JPEG file CD is created using an incorrect method, the player may not be able to recognize it. If this happens, try reburning another CD after setting up the disc writing parameters correctly on your PC.

Types of Playable Discs

- DVD (8 cm / 12 cm disc)
- Video CD (VCD) (8 cm / 12 cm disc)
- Audio CD (8 cm / 12 cm disc)

In addition, this unit plays DivX file, DVD -R, DVD +R, DVD -RW, DVD +RW, Kodak Picture CDs, SVCD, and CD-R / CD-RW that contains audio titles, MP3, WMA, and/or JPEG files.

Note

 Depending on the conditions of the recording equipment or the CD-R/RW (or DVD -R, DVD +R, DVD -RW, DVD +RW) disc itself, some CD-R/RW (or DVD -R, DVD +R, DVD -RW, DVD +RW) discs cannot be played on the unit.

Regional code of the DVD player and DVDs





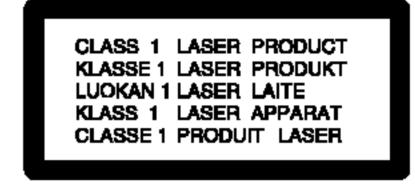






This DVD player is designed and manufactured for playback of region "2, 3, 4, 5 or 6" encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled "2, 3, 4, 5 or 6". If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater System, Inc.



CAUTION:

This Digital Video Disc Player employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference should the unit require maintenance, contact an authorized service location (see service procedure).

Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

Screen Saver

The screen saver appears when you leave the DVD player in Stop mode for about five minutes. If the Screen Saver is displayed for five minutes, the DVD Player automatically turns itself off.

Last Scene Memory

This player memorizes last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the player or turn off the set. If you load a disc that has the scene memorized, the scene is automatically recalled.

Note:

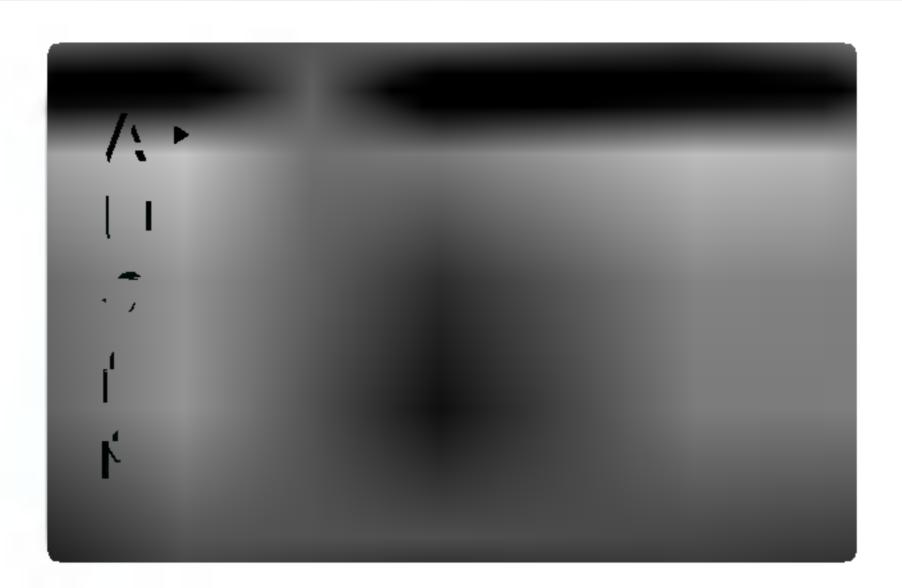
This player does not memorize the scene of a disc if you switch off the player before commencing to play the disc.

Note

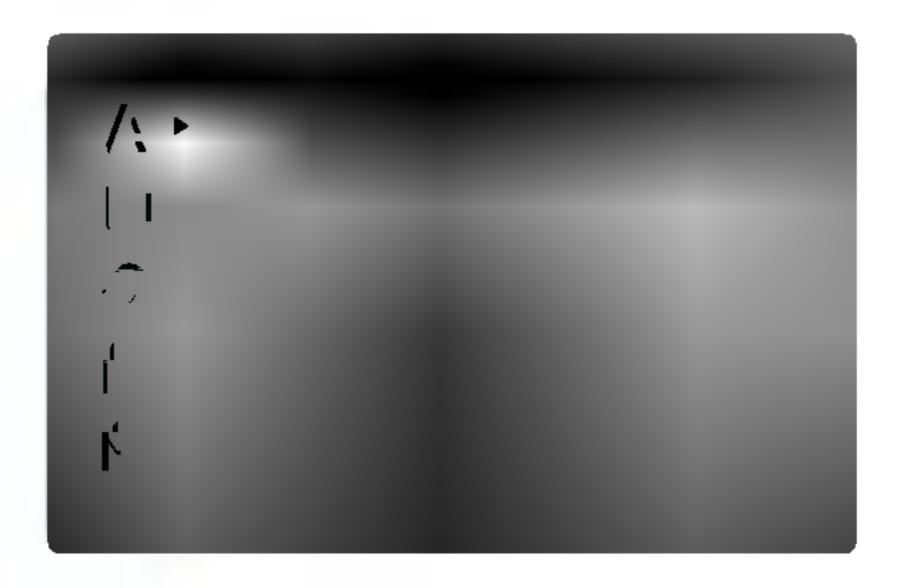
 Except DVD mode the PLAY button must be pressed after inserting the disk to switch to DVD mode.

DVD Menu options - LANGUAGE

By using the DVD menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the DVD menu, among other things.

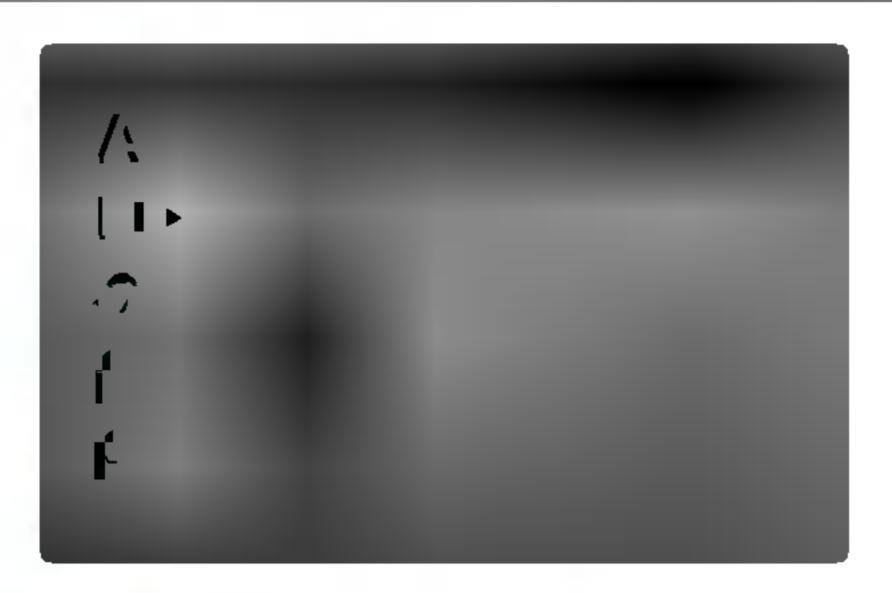


- Select your preferred language for the DVD menus and on screen displays messages.
- 1 Press the MENU button twice and then use the \triangle / ∇ button to select Language.
- **2** Press the \triangleright button and then use \blacktriangle / \blacktriangledown button to select **Menu Language**.
- 3 Press the \triangleright button and then use \triangle / \lor button to select your desired language.
- 4 Press the **OK** button. The menus and on screen displays will appear in the selected language.
- 5 Press the EXIT button to exit the menu.



- Select the language you prefer for the **Disc Audio / Disc Subtitle / Disc Menu**.
- Original: Refers to the original language in which the disc was recorded.
- Other: To select another language, press number buttons then OK button to enter the corresponding 4-digit number according to the language code list in the REFERENCE chapter. (Refer to P.64) If you enter the wrong language code, press CLEAR button.
- 1 Press the MENU button twice and then use the ▲ / ▼ button to select Language.
- 2 Press the ▶ button and then use ▲ / ▼ button to select **Disc Audio / Disc Subtitle /Disc Menu**.
- 3 Press the ► button and then use ▲ / ▼ button to select your desired language.
- 4 Press the **OK** button.
- 5 Press the EXIT button to exit the menu.

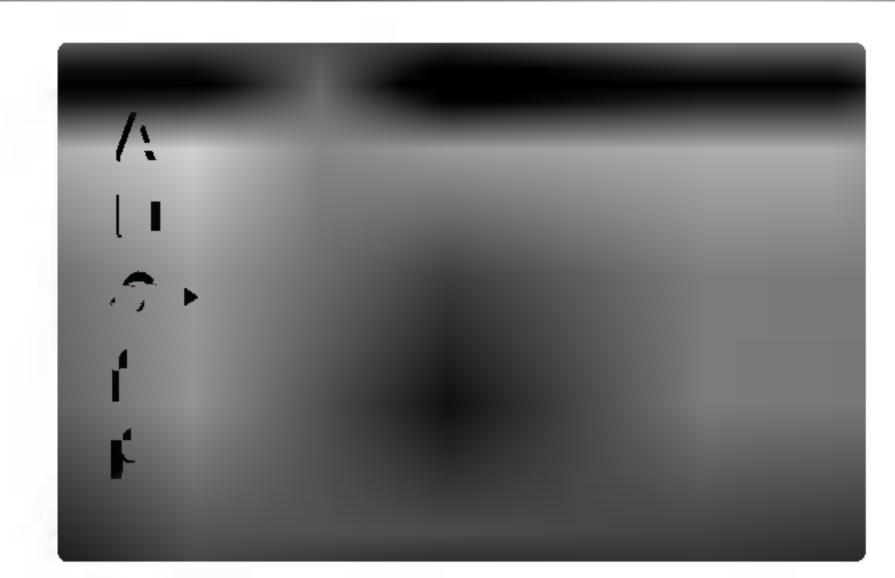
DVD Menu options - DISPLAY



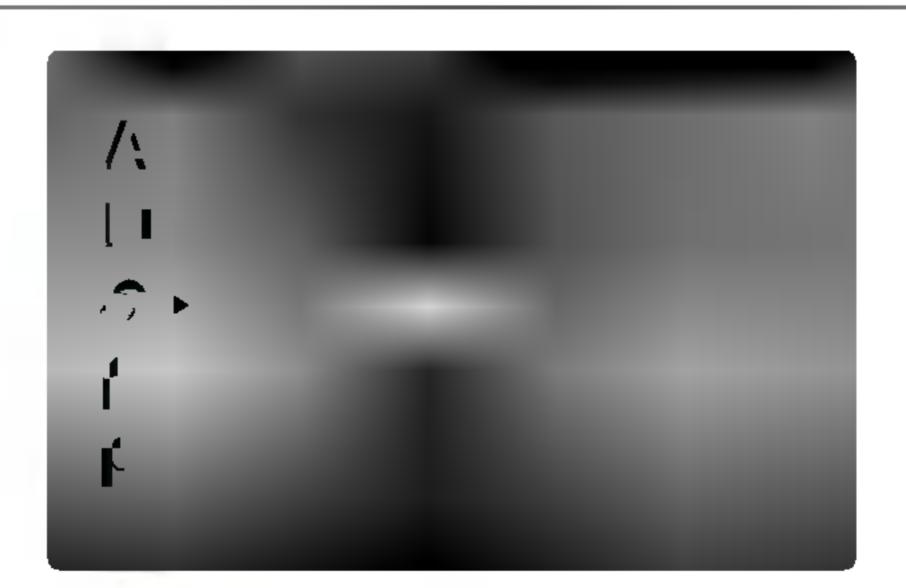
- Progressive Scan Video provides the highest quality pictures with less flickering. Set **Progressive Scan** to **On**.
- 1 Press the MENU button twice and then use the \blacktriangle / \blacktriangledown button to select **DISPLAY**.
- 2 Press the ▶ button to select Progressive Scan.
- 3 Press the ▶ button and then use ▲ / ▼ button to select **On** or **Off**.
- 4 Press the OK button.
- **5** Press the **EXIT** button to exit the menu.

DVD Menu options - AUDIO

Each DVD disc has a variety of audio output options. Set the player's AUDIO options according to the type of audio system you use.



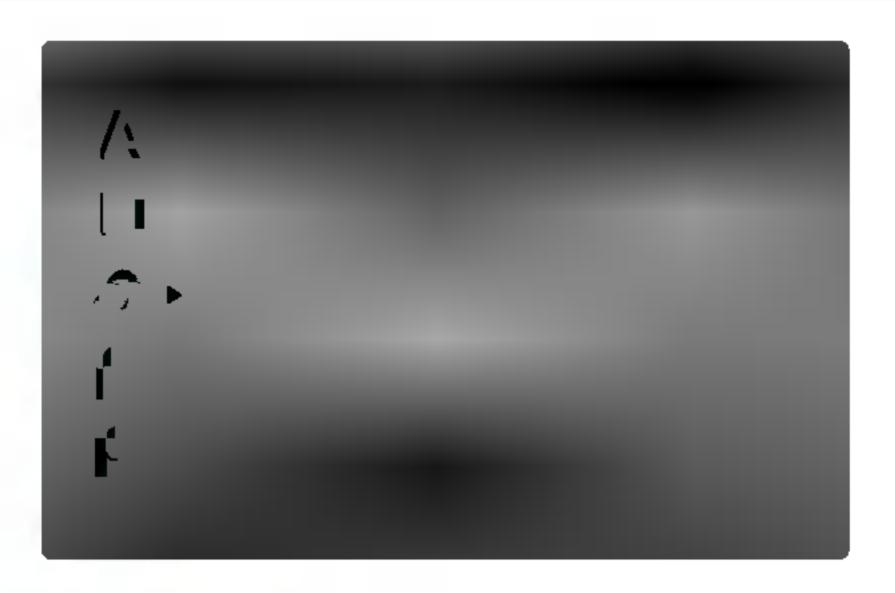
- Bitstream: Select Bitstream if you connect the DVD Player's DIGITAL OUT jack to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.
- PCM (Pulse Code Modulation):
 Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital, DTS or MPEG will be automatically downmixed to two-channel PCM audio.
- 1 Press the MENU button twice and then use the ▲ / ▼ button to select AUDIO.
- 2 Press the ▶ button and then use ▲ / ▼ button to select **Dolby Digital / DTS** / MPEG.
- 3 Press the ▶ button and then use \blacktriangle / \blacktriangledown button to select **Bitstream** or **PCM**.
- 4 Press the OK button.
- 5 Press the EXIT button to exit the menu.



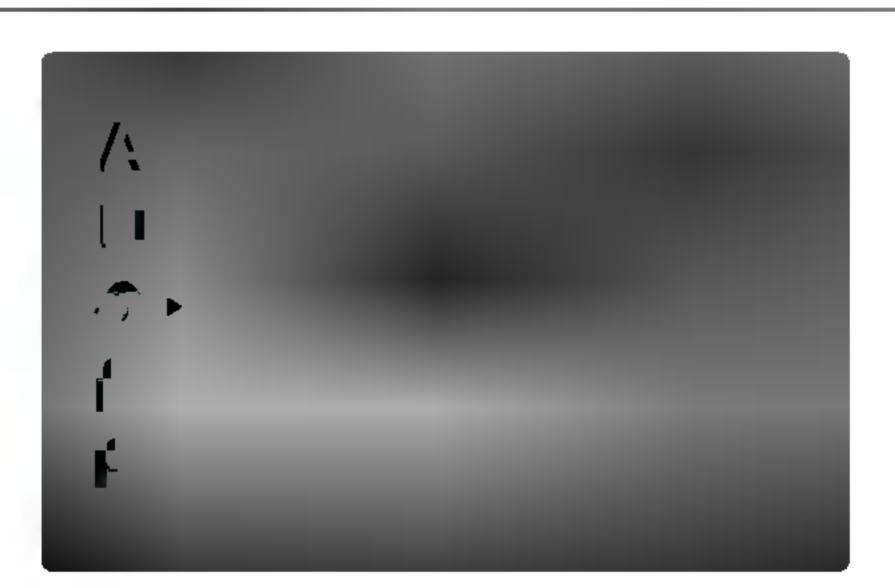
- If your receiver or amplifier is NOT capable of handling 96 kHz signals, select 48 kHz. When this choice is made, this unit automatically converts any 96 kHz signals to 48 kHz so your system can decode them.
 - If your receiver or amplifier is capable of handling 96 kHz signals, select 96 kHz. When this choice is made, this unit passes each type of signal through without any further processing.

Check the documentation for your amplifier to verify its capabilities.

- Press the MENU button twice and then use the ▲ / ▼ button to select AUDIO.
- **2** Press the \triangleright button and then use \triangle / \lor button to select **Sample Freq.**
- $\mathbf{3}$ Press the ▶ button and then use \mathbf{A} / \mathbf{V} button to select $\mathbf{48KHz}$ or $\mathbf{96KHz}$.
- 4 Press the **OK** button.
- 5 Press the EXIT button to exit the menu.

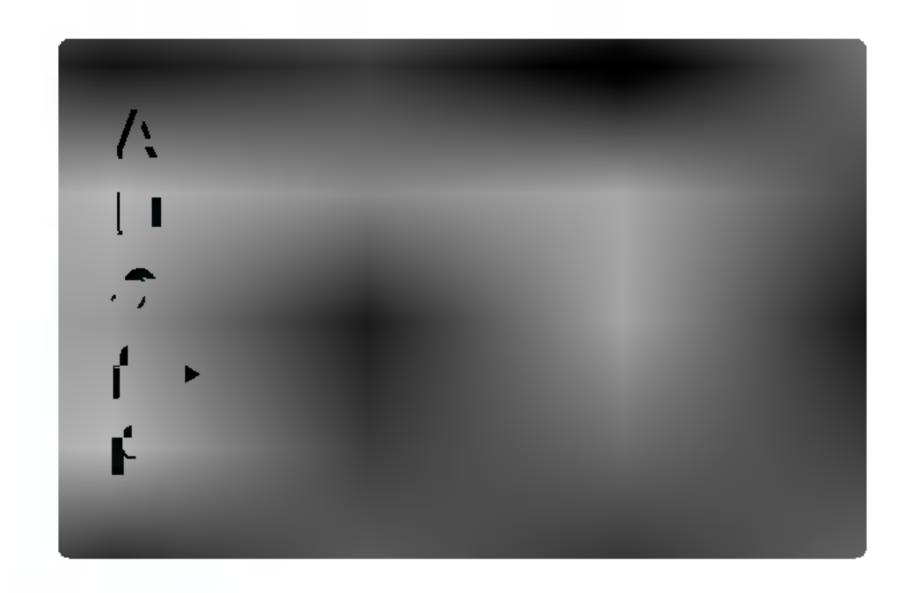


- With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones).
 - This allows you to listen to a movie at a lower volume without losing clarity of sound. Set **DRC** to **On** for this effect.
- 1 Press the MENU button twice and then use the ▲ / ▼ button to select AUDIO.
- 2 Press the ▶ button and then use ▲ / ▼ button to select DRC.
- 3 Press the ▶ button and then use ▲ / ▼ button to select **On** or **Off**.
- 4 Press the OK button.
- 5 Press the EXIT button to exit the menu.

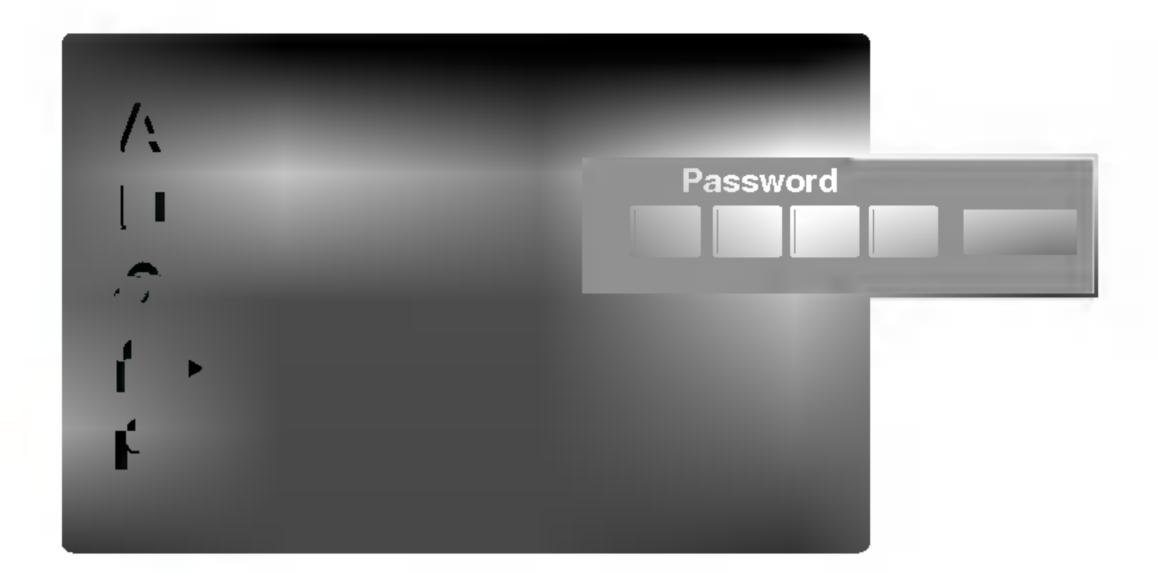


- Set to **On** only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc mix into normal stereo sound.
- Vocal setting works when the Dolby
 Digital mode is set to "PCM" in the
 DVD menu.
- Press the MENU button twice and then use the ▲ / ▼ button to select AUDIO.
- **9** Press the \triangleright button and then use \triangle / \bigvee button to select **Vocal**.
- 3 Press the ▶ button and then use ▲ / ▼ button to select On or Off.
- 4 Press the **OK** button.
- **5** Press the **EXIT** button to exit the menu.

DVD Menu options - LOCK







- Some movies contain scenes that may not be suitable for children to view. Many of these discs contain parental control information that applies to the complete disc or to certain scenes on the disc. Movies and scenes are rated from 1 to 8, depending on the country. Some discs offer more suitable scenes as an alternative.

The parental control feature allows you to block access to scenes below the rating you input, thereby preventing your children from being able to view material you believe is unsuitable.

- Press the MENU button twice and then use the ▲ / ▼ button to select LOCK.
- 2 Press the \triangleright button and then use \triangle / \lor button to select **Rating**.
- **3** Press the ▶ button.

To access the **Rating**, you must input the 4-digit password you created. If you have not yet entered a password you are prompted to do so. Input a 4-digit password and press **OK** button. Enter it again and press **OK** button to verify. If you make a mistake before pressing **OK** button, press **CLEAR** button.

4 Select a rating from 1 to 8 using the ▲ / ▼ button.

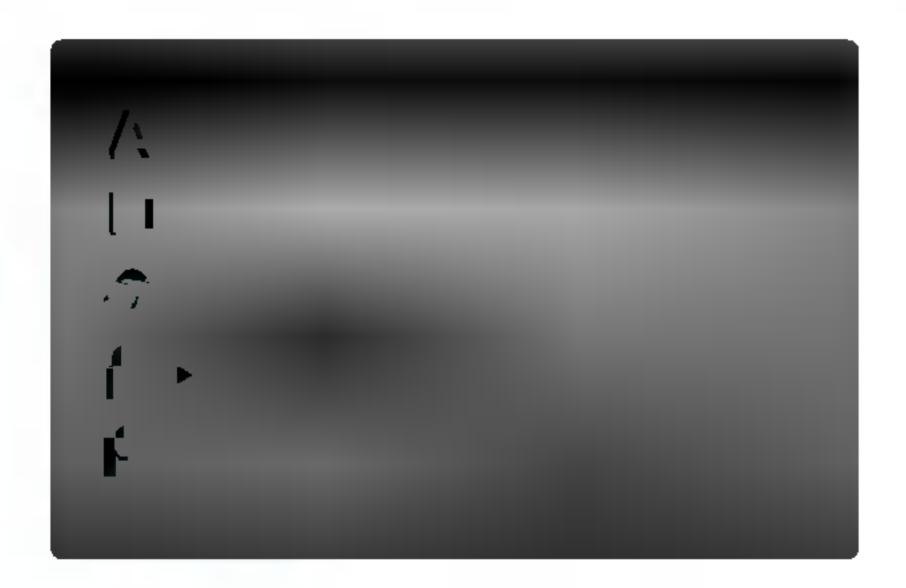
Rating 1-8: Rating 1 has the most restrictions and rating 8 is the least restrictive.

Unlock: If you select unlock, parental control is not active and the disc plays in full.

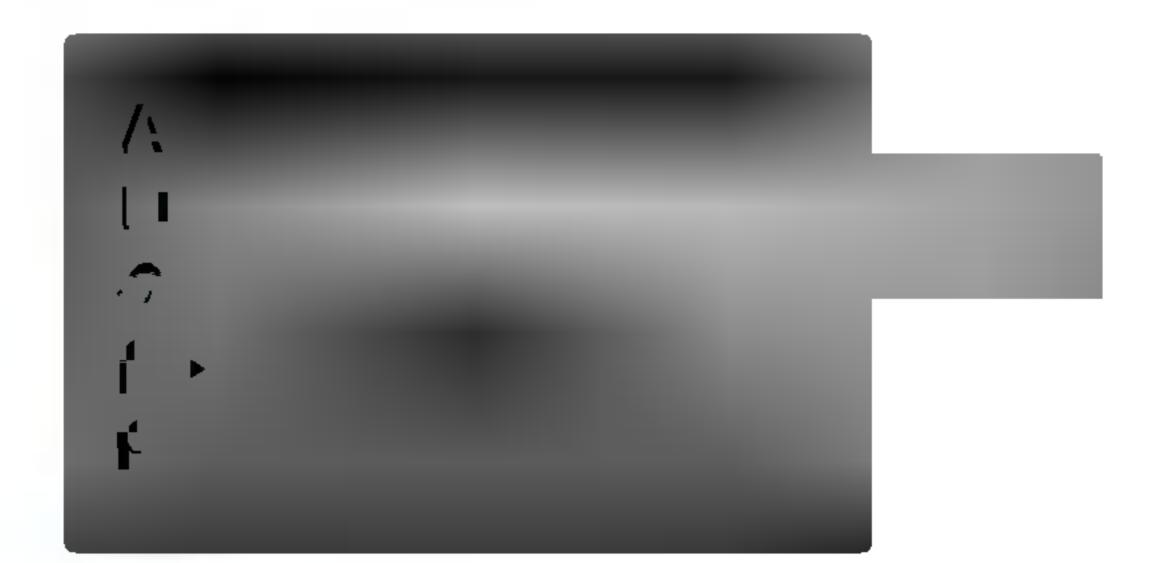
- 5 Press the OK button.
- 6 Press the EXIT button to exit the menu.



- a. If you set a rating for the player, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback stops. You must enter the 4-digit password or change the rating level in order to play the disc.
- b. The Rating function may not work for some DVDs.







- You can enter or change password.
- 1 Press the MENU button twice and then use the ▲ / ▼ button to select LOCK.
- 2 Press the ▶ button and then use ▲ / ▼ button to select Password.
- 3 Press the ► and OK button.

In case of "New"

Input a 4-digit password and press **OK** button. Enter it again and press **OK** button to verify. If you make a mistake before pressing **OK** button, press **CLEAR** button.

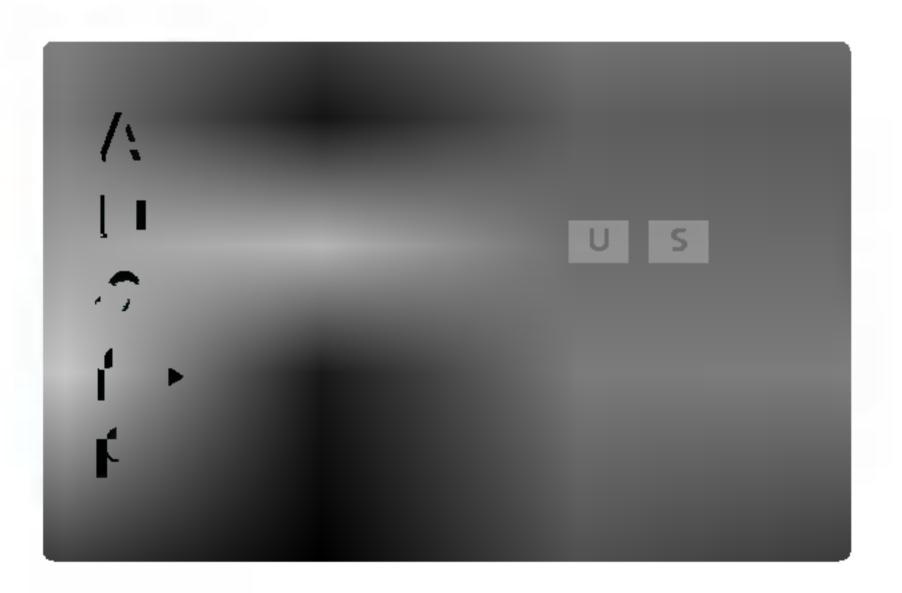
In case of "Change"

- 1. Input the 4-digit password you created.
- 2. Input the new 4-digit password and press **OK** button. Enter it again and press **OK** button to verify. If you make a mistake before pressing **OK** button, press **CLEAR** button.
- 4 Press the EXIT button to exit the menu.

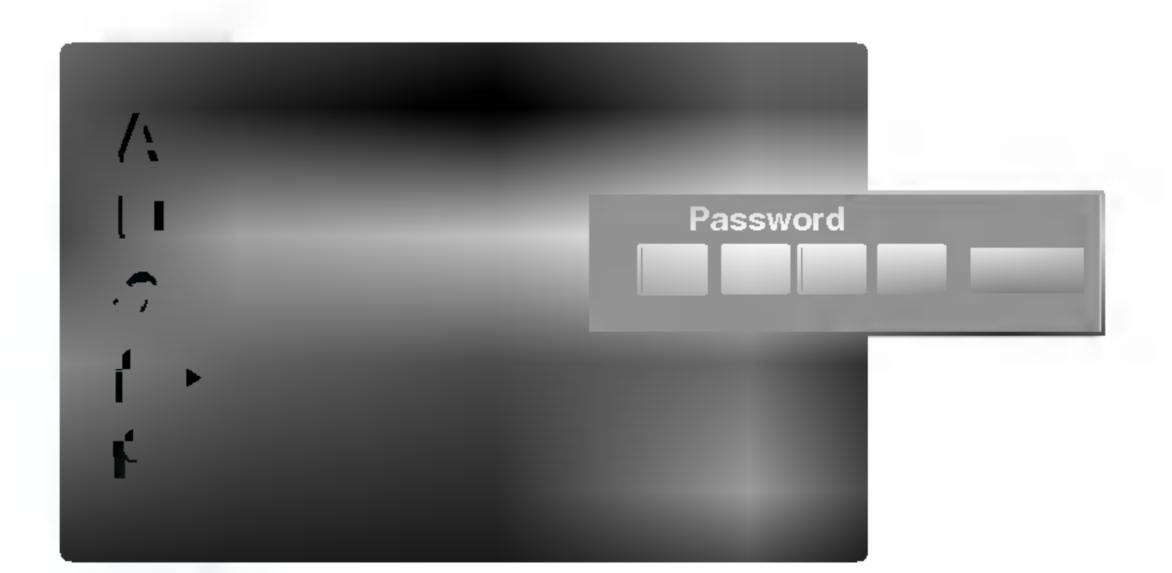
If you forget your Password

If you forget your password you can clear it using the following steps:

- 1. Press the MENU button twice to display the DVD menu.
- 2. Input the 6-digit number "210499" and the password is cleared.
- 3. Enter a new password as described above.







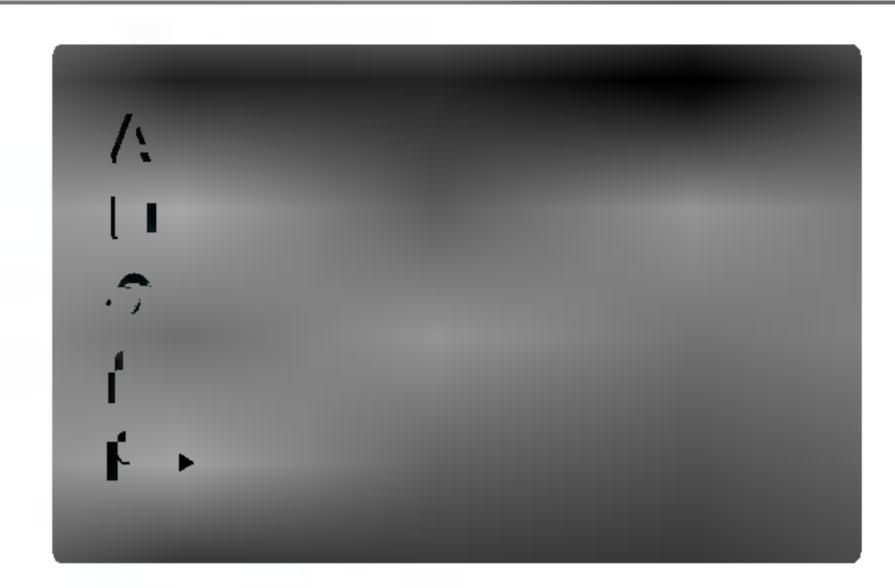
- Enter the code of the country/area whose standards were used to rate the DVD video disc, based on the list in the "REFERENCE" chapter. (Refer to P.64)
- 1 Press the MENU button twice and then use the \triangle / ∇ button to select LOCK.
- **2** Press the \triangleright button and then use \blacktriangle / \blacktriangledown button to select **Area Code**.
- 3 Press the ▶ button.

To access the **Area Code**, you must input the 4-digit password you created. If you have not yet entered a password you are prompted to do so.

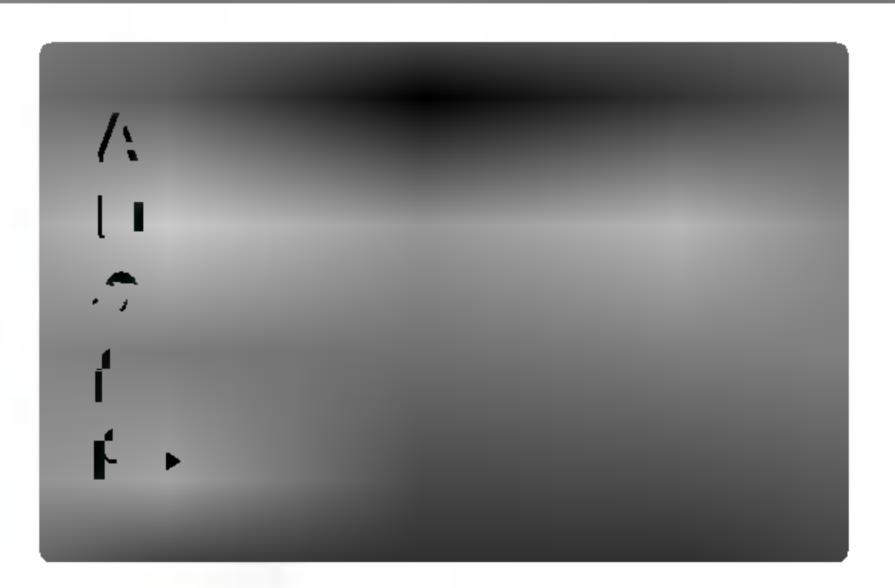
Input a 4-digit password and press **OK** button. Enter it again and press **OK** button to verify. If you make a mistake before pressing **OK** button, press **CLEAR** button.

- 4 Select the first character using \blacktriangle / \blacktriangledown button and press **OK** button.
- 5 Select the second character using ▲ / ▼ button and press OK button to confirm your country code selection.
- **6** Press the **EXIT** button to exit the menu.

DVD Menu options - OTHERS



- Set Playback Control (PBC) to **On** or **Off**.
 - **On**: Video CDs with **PBC** are played according to the **PBC**.
 - Off: Video CDs with **PBC** are played the same way as Audio CDs.
- 1 Press the MENU button twice and then use the \triangle / ∇ button to select OTHERS.
- 2 Press the ▶ button and then use ▲ / ▼ button to select PBC.
- 3 Press the ▶ button and then use ▲ / ▼ button to select **On** or **Off**.
- 4 Press the OK button.
- 5 Press the EXIT button to exit the menu.



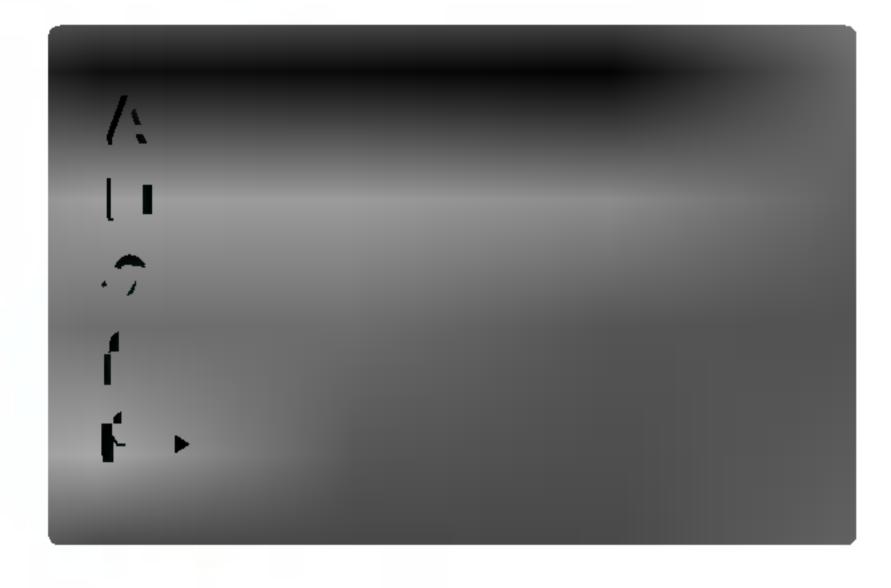
- You can set up the DVD Player so a DVD disc automatically starts playing whenever the DVD is inserted.

 If **Auto Play** mode is set to **On**, this DVD player will search for title that has the longest playback time and then play back the title automatically.
- 1 Press the MENU button twice and then use the \triangle / ∇ button to select OTHERS.
- **2** Press the \triangleright button and then use \triangle / \lor button to select **Auto Play**.
- 3 Press the ▶ button and then use ▲ / ▼ button to select **On** or **Off**.
- 4 Press the **OK** button.
- **5** Press the **EXIT** button to exit the menu.



Note

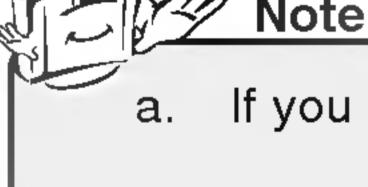
- a. The Auto Play function may not work for some DVDs.
- b. When you load and play back again the same disc in the tray, Playback starts from the location where you stopped playback because **Last scene memory** function works prior to **Auto Play** function.



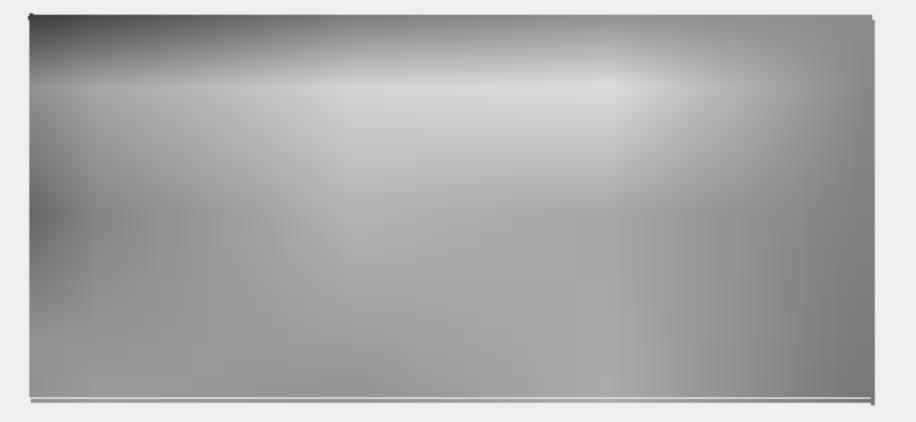




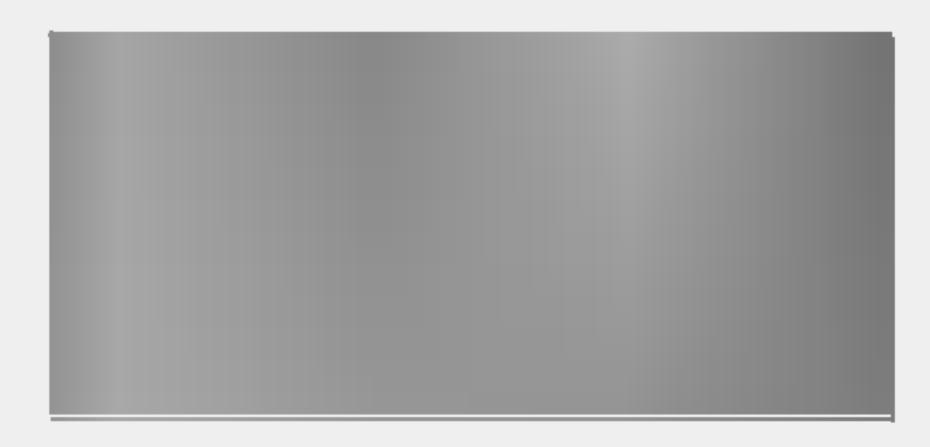
- You can show the DivX DRM (Digital Right Management) Registration code for your unit only.
 The Registration code is used for VOD (Video-On-Demand) service agent. You can purchase or rental an encrypt movie file.
- 1 Press the MENU button twice and then use the \blacktriangle / \blacktriangledown button to select OTHERS.
- **2** Press the \triangleright button and then use \triangle / \lor button to select **DivX(R) VOD**.
- 3 Press the ► and OK button.
- 4 Press the EXIT button to exit the menu.



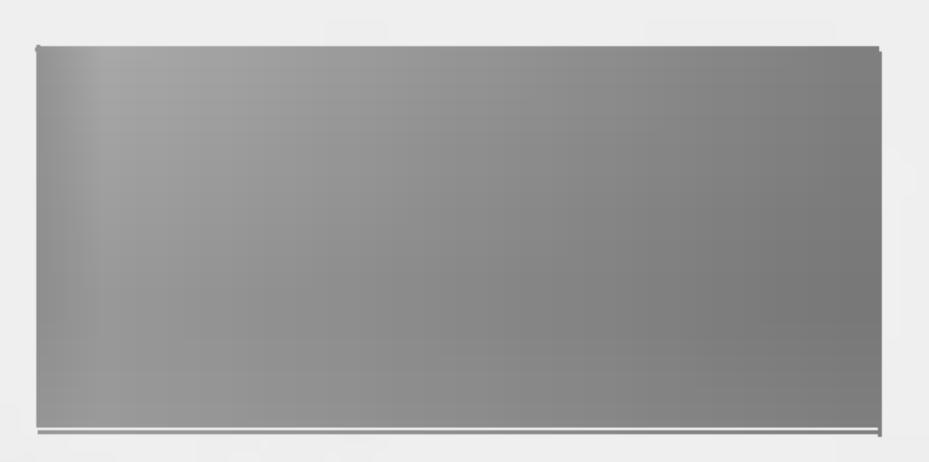
- a. If you rent the DivX VOD file, it has several options of viewing limits as show below.
 - Display the number which you can watch the file.



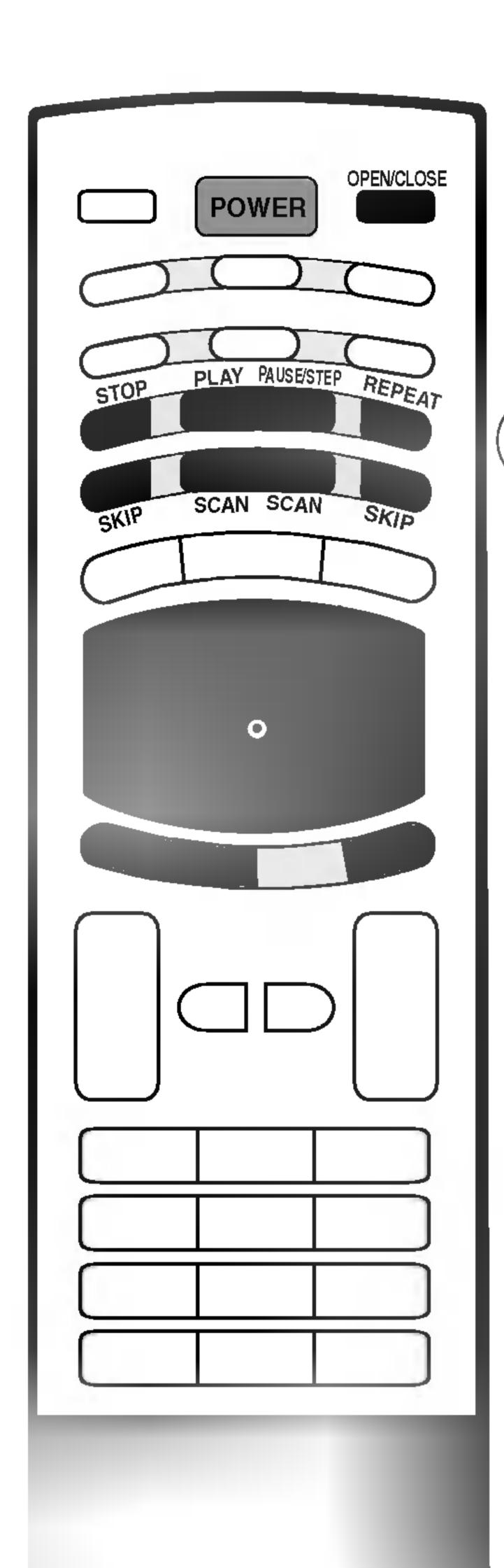
• The rental has been expired.



• Display the authorization error.



Playing a DVD or Video CD



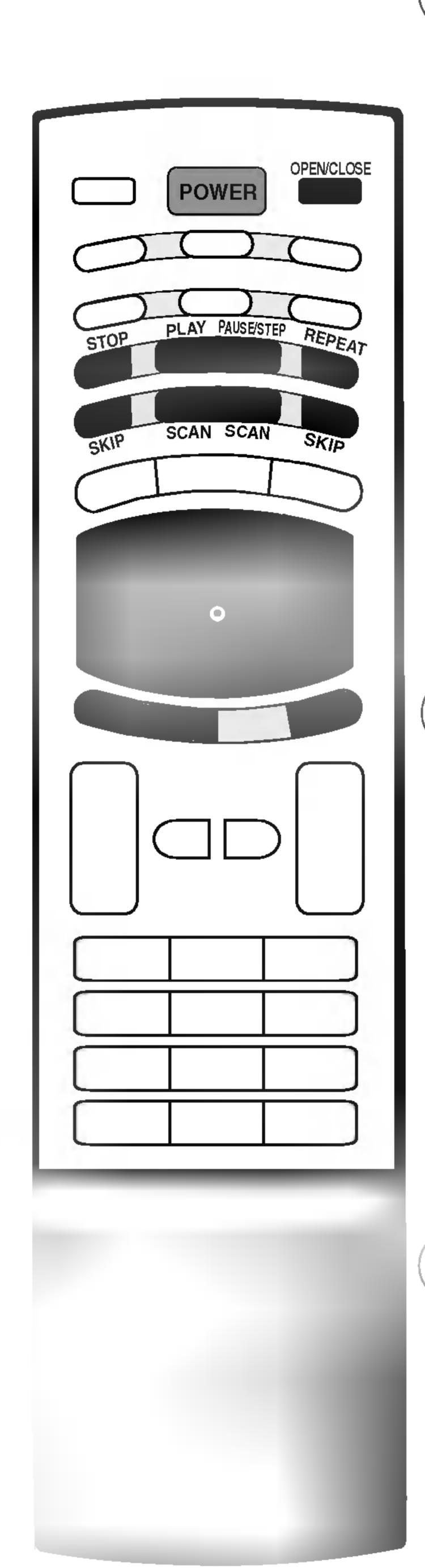
- Press the **POWER** button to turn the unit on.
- 2 Press OPEN/CLOSE button to open the disc tray and load your chosen disc in the tray, with the playback side down.
- 3 Press OPEN/CLOSE button to close the tray. Playback starts automatically. If playback does not start, press ► PLAY button.
- 1 Press the STOP button to stop playback. At this time the DVD video player stops playback temporarily and maintains the current playback position.

 If you ▶ PLAY button is pressed, playback will resume from the location where you stopped playback.
- Press the STOP button again to stop playback fully.

 At this time if you press ➤ PLAY button, the disc playback starts from the beginning.
 - Press II PAUSE/STEP button during playback.
- 2 Press the PLAY button again to return to normal playback.
- 1 Press II PAUSE/STEP button on the remote control during playback. Advance the picture frame-by-frame by pressing II PAUSE/STEP button repeatedly.
- 2 To exit still motion mode, press ► PLAY button.
- 1 Press ◀◀ SCAN or ▶▶ SCAN button during playback.
- 2 Press ◀◀ SCAN or ▶▶ SCAN button repeatedly to select the required speed.
- DVD, DivX disc: X2, X4, X16 or X100
- Video CD: X2, X4 or X8
- 3 Press the ► PLAY button again to return to normal playback.



When you use a NTSC disc, the picture may be unstable. In that case, press the II PAUSE/STEP button on the remote control to select NTSC broadcasting system for 5 seconds after extracting the disc.



- 1 Press II PAUSE/STEP button on the remote control during playback. The DVD player will now go into PAUSE mode.
- 2 Use the ◀◀ SCAN or ▶▶ SCAN button to select the required speed: ◀ I 1/16, ◀ I 1/8, ◀ I 1/4, or ◀ I 1/2 (backward), or I ▶ 1/16, I ▶ 1/8, I ▶ 1/4, or I ▶ 1/2 (forward). With a DivX Disc and Video CD, the Slow speed changes: I ▶ 1/16, I ▶ 1/8, I ▶ 1/4 or I ▶ 1/2 (forward).
- 3 To exit Slow Motion mode, press ► PLAY button.

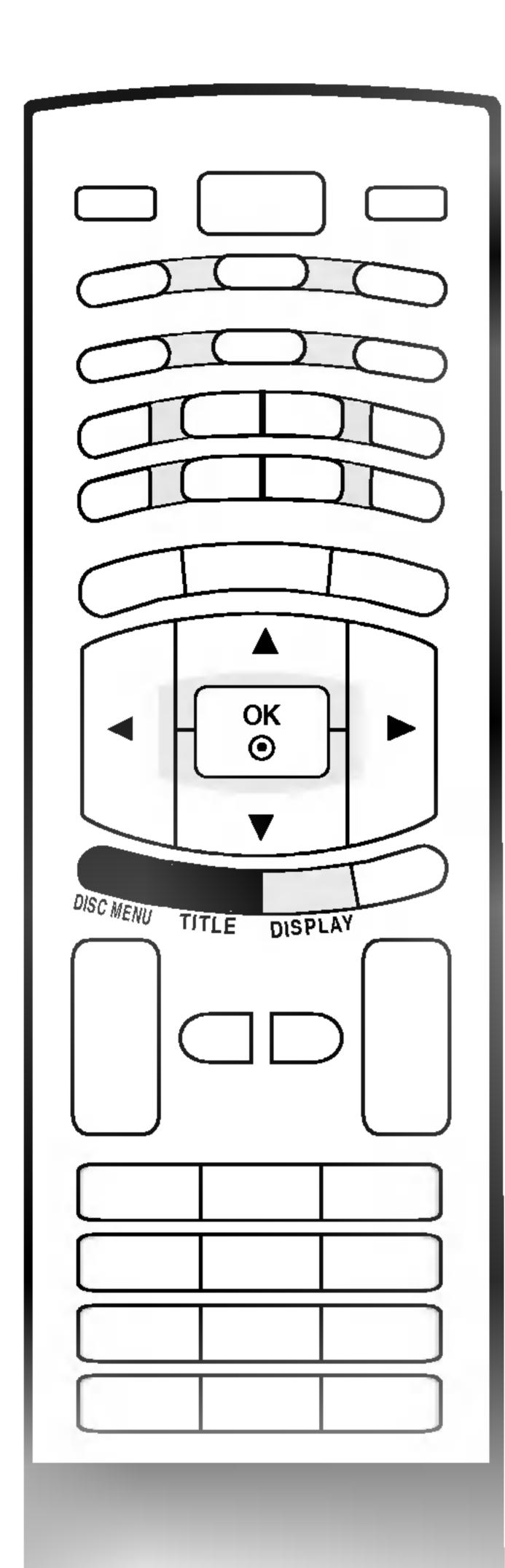
Note

- a. There is no sound during fast or slow playback for DVDs or Video CDs.
- b. Slow motion playback in reverse is not possible with Video CDs and DivX Discs.
- 1 When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:
 - Press I◀◀ SKIP or ▶►I SKIP button briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
 - Press I◄◀ SKIP button twice briefly to step back to the previous chapter/track.
 - To go directly to any chapter during DVD playback, press DISPLAY button and press ▲ / ▼ to select the chapter/track icon. Then, input the chapter/track number or use ◄ / ►.
 - You can play a specific title, chapter, or track repeatedly.
- 1 Press the ▶I◀ REPEAT button during playback.
 Each time you press the ▶I◀ REPEAT button, the repeat mode changes as follows.



- a. On a Video CD with PBC, you must set PBC to Off on the DVD menu to use the repeat function.
- b. If you press ►►I SKIP button once during Repeat Chapter (Track) playback, the repeat playback cancels.

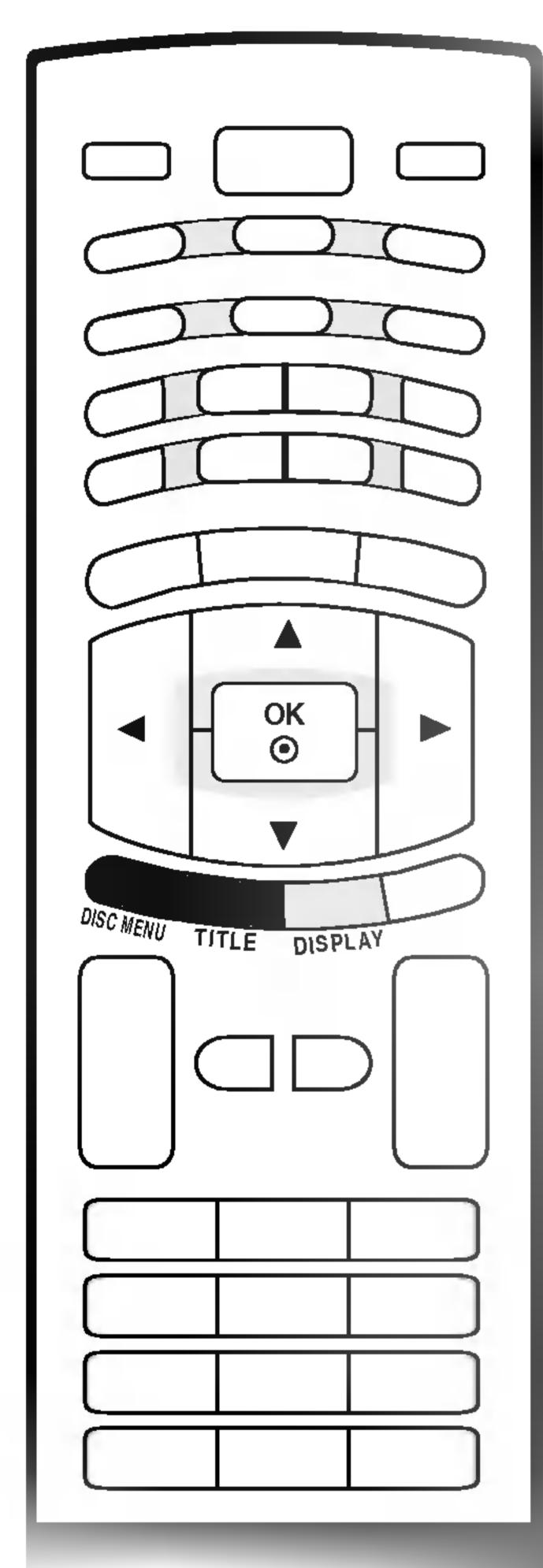
Playing a DVD or Video CD



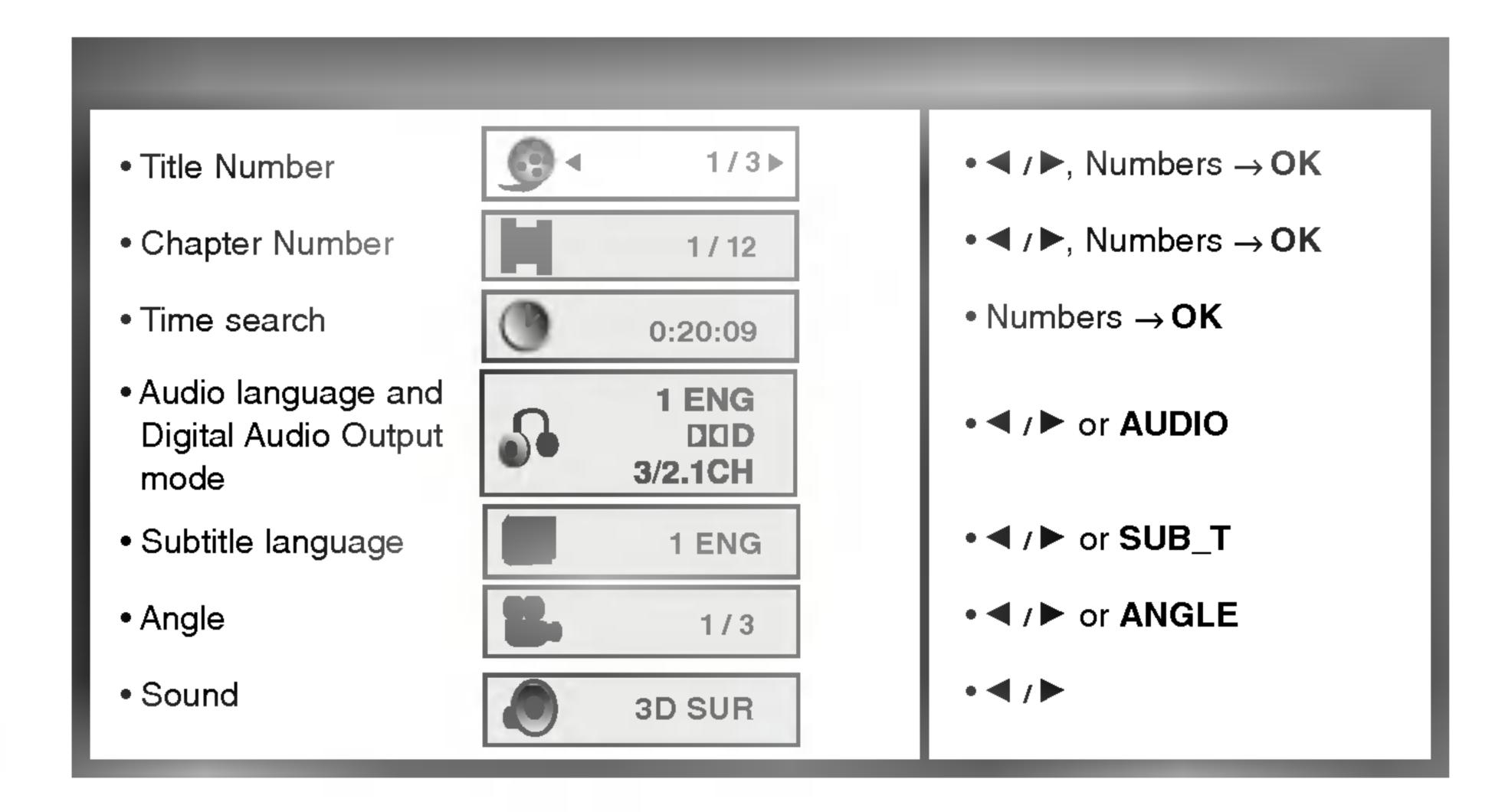
- 1 Press the **DISC MENU** button during playback.
- 2 Use the ▲ / ▼ / ◀ / ▶ button or OK button to select the desired menu option.
- Press the **TITLE** button during playback.
- **2** Use the \triangle / ∇ / \triangleleft / \triangleright button or **OK** button to select the desired item.



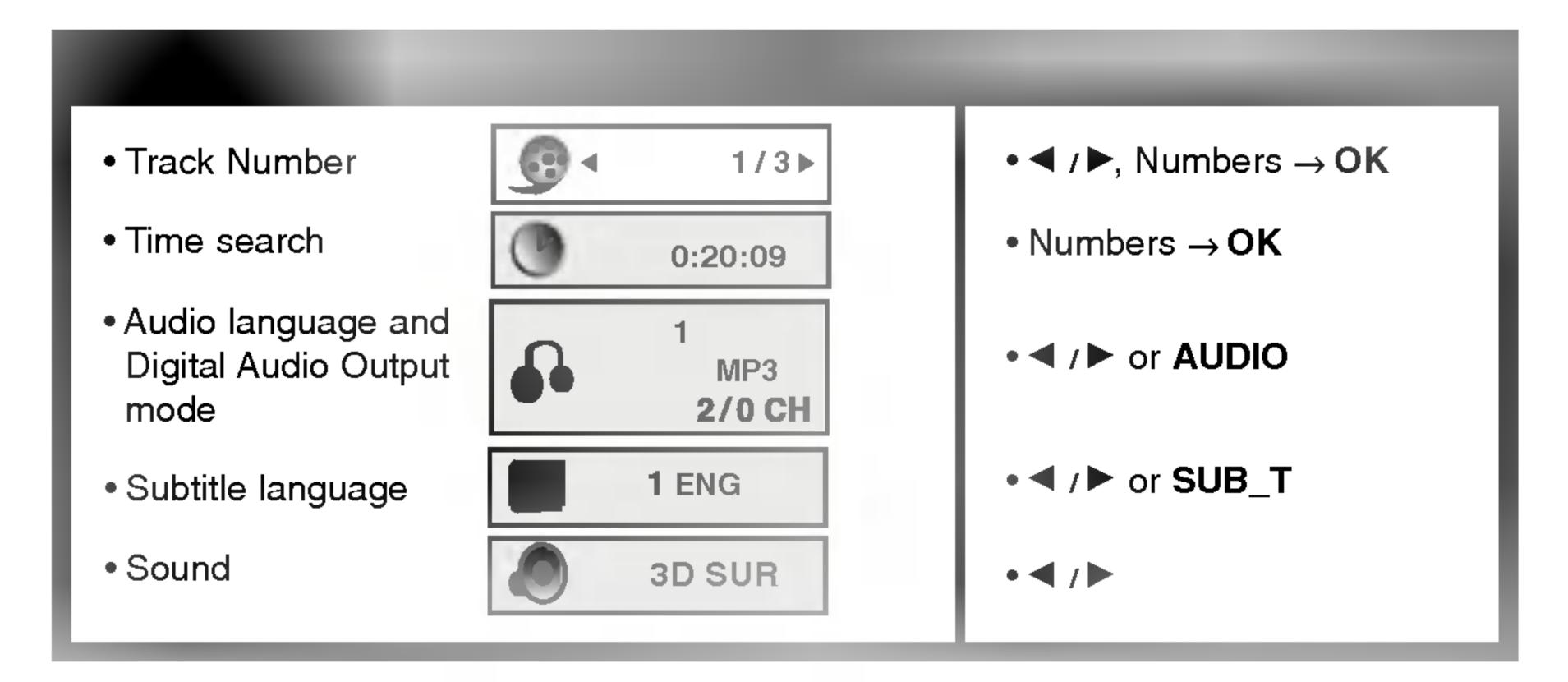
a. The unit may not be able to select the disc or title menu depending on a sort of DVD disc.



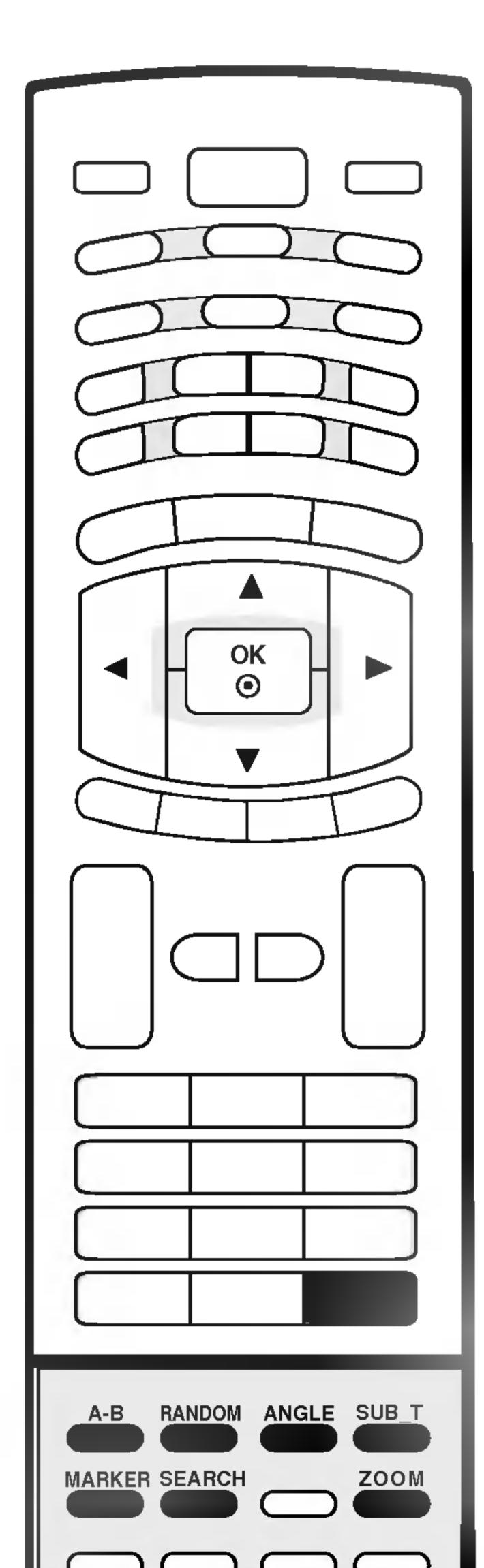
- 1 Press **DISPLAY** button during playback.
- 2 Use ▲ / ▼ button to select an item.
- 3 Press ◀ / ▶ button to change the setting. You can also use the number buttons if appropriate (e.g. inputting the title number). For some functions, press **OK** to execute the setting. Some discs may not provide all of the features shown below.







Playing a DVD or Video CD



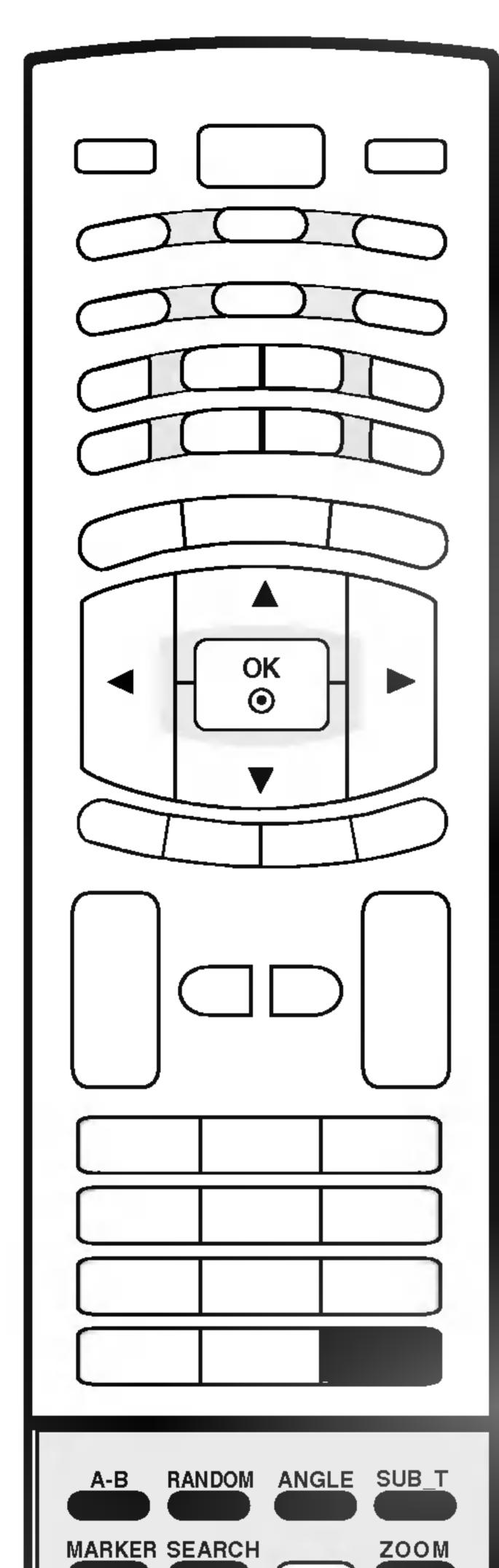
- A-B repeat playback allows you to repeat material between two selected points.
- Press the **A-B** button to select the start point during playback. " **A***" is displayed on the TV screen and the starting point of your selected segment is set up.
- 2 Press the A-B button again to select the end point. " AB" is displayed on the TV screen and the ending point is set up. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.
- 3 Repeatedly press the A-B button again to resume normal playback. "Off" appears on the screen.
- Press RANDOM button during playback. The unit automatically begins random playback and **RANDOM** appears on the TV screen.
- 2 Press RANDOM button again to normal.
 - By pressing ►►I SKIP button during random playback, the unit selects another title (track) and resumes random playback.



- On a Video CD with PBC, You must set PBC to Off on the DVD menu to use the random function
- If the scene was recorded from multiple angles, you can easily change the camera angle of the scene you are currently watching.
- Press the **ANGLE** button during playback.
- 2 Repeatedly press the ANGLE button to select the desired angle.



- a. You can only change the angle for DVDs that provide multiple angles of scenes.
- b. The angle function will not work on DVD video discs that do not contain scenes recorded at different angles.
- c. The number of angles varies from disc to disc.



1 Press SUB_T button repeatedly during playback to see the different subtitle languages.

If a subtitle language is selected, the selected subtitle language is played whenever you start a new disc playback. (The disc must contain the selected language)



- a. The subtitle file of the DivX file is displayed only smi, srt and sub.
- b. If there is no information or there is a code that can not read in the DivX file, "1" etc are displayed.
- You can start playback from up to nine memorized points.
- To enter a Marker



Press MARKER button during playback at the desired point on the disc. The MARKER icon appears on the TV screen briefly. Repeat to enter up to nine markers.

■ To Recall or Clear a Marked Scene



- 1. During disc playback, press **SEARCH** button. The **MARKER SEARCH** menu appears on the screen.
- 2. Within 10 seconds, press ◀ / ► button to select a marker number that you want to recall or clear.
- 3. Press **OK** button and playback starts from the marked scene. Or, Press **CLEAR** button and the marker number is erased from the list.
- You can play any marker by inputting its number on the MARKER SEARCH menu.
- Use zoom to enlarge the video image.
- 1 Press **ZOOM** button during playback or still playback. The square frame appears briefly in the right bottom of the picture.
- 2 Each press of the **ZOOM** button changes the TV screen in the sequence: $100\% \rightarrow 400\% \rightarrow 1600\% \rightarrow Screen$ fit mode $\rightarrow 100\%$
 - Screen fit mode :

You can change the way the image appears on the screen when you're playing a DVD movie. Press ▲ /▼ button to select between Normal, Enhanced, and Maximum.

- 3 Use the ▲ /▼ / ◀ / ▶ button to move through the zoomed picture.
- 4 To resume normal playback, press CLEAR button.



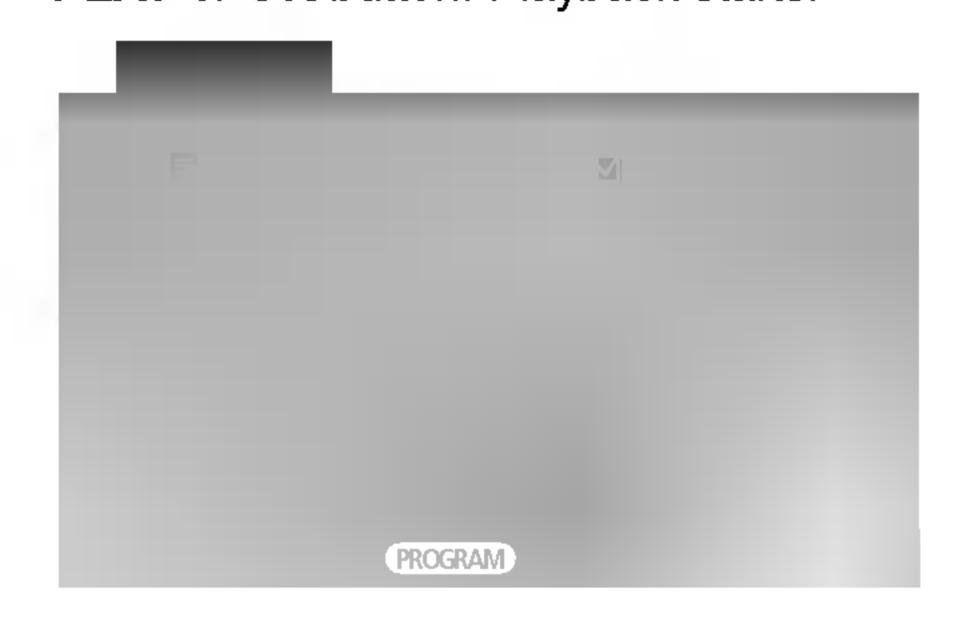
- a. Zoom may not work on some DVDs.
- b. Screen fit mode is available for playing the DVD disc, VR disc and movie file.

Playing an Audio CD or MP3/WMA Disc

- The DVD player can play MP3/WMA formatted recordings on CD-ROM, CD-R, or CD-RW discs.
- Audio CD



- 1. Once you insert an audio CD a menu appears on the TV screen.
- 2. Press ▲ / ▼ button to select a track then press ► PLAY or OK button. Playback starts.

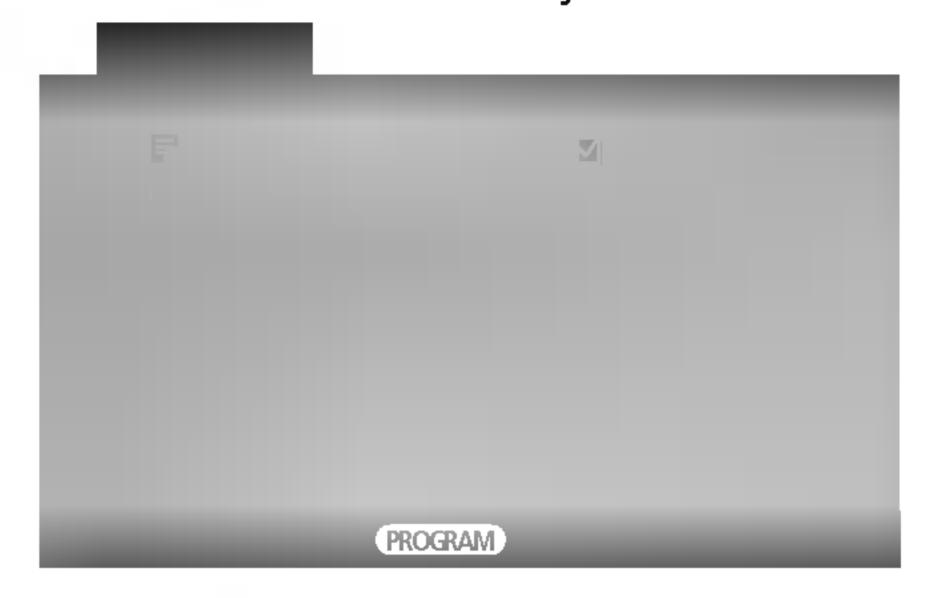


■ MP3 / WMA





- 1. Press ▲ / ▼ button to select a folder, and press OK button to see the folder contents.
- 2. Press ▲ / ▼ button to select a track then press ► PLAY or OK button. Playback starts.



■ ID3 TAG

- When playing a file containing information such as track titles, you can see the information by pressing DISPLAY button. [Title, Artist, Album, Year, Comment]
- If there is no information, **NO ID3 TAG** appear on the display.
- Press II PAUSE/STEP button during playback.
- 2 To return to playback, press ► PLAY, OK or press II PAUSE/STEP button again.

Press SCAN or SCAN button during playback.

- 2 Press ◀◀ SCAN or ▶▶ SCAN button repeatedly to select the required speed. • X2, X4 or X8
- 3 Press the PLAY button again to return to normal playback.

1 Press I◀◀ SKIP or ▶▶I SKIP button briefly during playback to go to the next track or to return to the beginning of the current track.

- 2 Press I◀◀ SKIP button twice briefly to go back to the previous track.
- 3 You can play any track by inputting its number.

Repeat Playback

D MP3 WMA

- You can play a track/all on a disc.
- 1 Press the ►I REPEAT button during playback.
- 2 Each time you press the ►I◀ REPEAT button, the repeat mode changes as follows.

 Track → □ All → (Off)
 - If you press >> SKIP button once during repeat track playback, the repeat playback cancels.

A-B Repeat Playback

CE

- A-B repeat playback allows you to repeat material between two selected points.
- 1 Press the A-B button to select the start point during playback. "A" is displayed on the TV screen and the starting point of your selected segment is set up.
- 2 Press the A-B button again to select the end point. " AB" is displayed on the TV screen and the ending point is set up. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.
- 3 To exit the sequence and return to normal play, press A-B button again. The Repeat icon disappears from the menu screen.

Random Playback

MP3

CD

WMA

- Press RANDOM button during playback. The unit automatically begins random playback and RANDOM button appears on the TV screen.
- 2 Press RANDOM button again to normal.
 - By pressing >> I SKIP button during random playback, the unit selects another track and resumes random playback.

3D Surround

CD

To produce a 3D surround effect that simulates multi-channel audio from two stereo speakers (instead of the five+ speakers normally required for multi-channel audio from a home theater system).

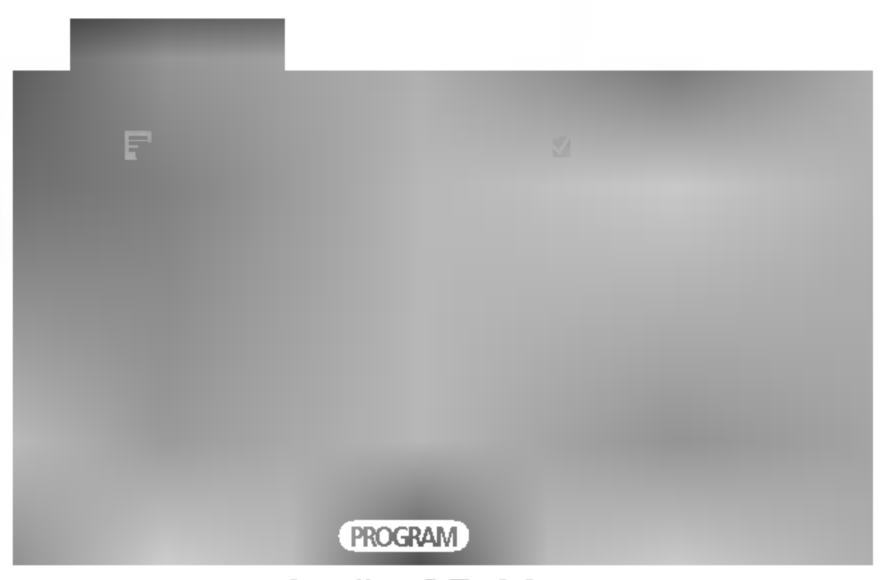
- 1 Press AUDIO button during playback. "3D SUR." appears on the menu screen.
- 2 To return to normal playback, press AUDIO button repeatedly until "3D SUR." disappears from the menu screen.

■ MP3 / WMA disc compatibility with this player is limited as follows:

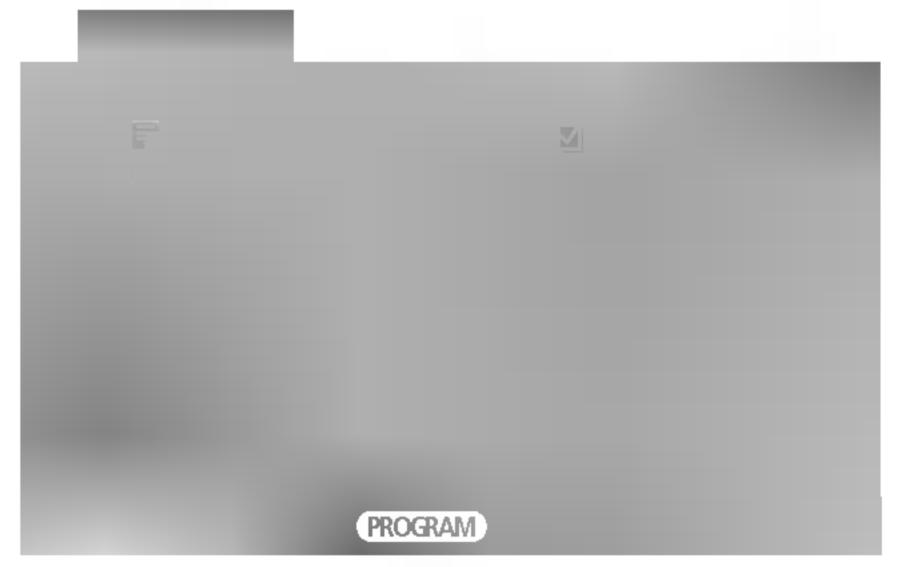
- Sampling frequency: within 8 48 kHz (MP3), within 32 48kHz (WMA)
- Bit rate: within 8 320kbps (MP3), 32 192kbps (WMA)
- The player cannot read an MP3/WMA file that has a file extension other than ".mp3" / ".wma".
- CD-R physical format should be ISO 9660 or JOLIET file.
- If you record MP3 / WMA files using software that cannot create a file system (eg. Direct-CD) it is impossible to play-back MP3 / WMA files. We recommend that you use Easy-CD Creator, which creates an ISO 9660 file system.
- File names should have a maximum of 8 letters and must incorporate an .mp3 or .wma extension.
- They should not contain special letters such as /? *: " < > I etc.
- The total number of files on the disc should be less than 650.
- Play a MP3 file that made by user for personal purpose. Use other MP3 Player if an MP3 file is protected by copyright.

Programmed Playback

- The program function enables you to store your favorite tracks from any disc in the player memory. A program can contain 30 tracks.
 - 1 Insert a disc.
 - 2 Press PROGRAM button.
 - The mark will appear to the right of the word **Program** on the right side of the menu screen.
 - Press PROGRAM button again, then the mark will disappear to exit the Program Edit mode.







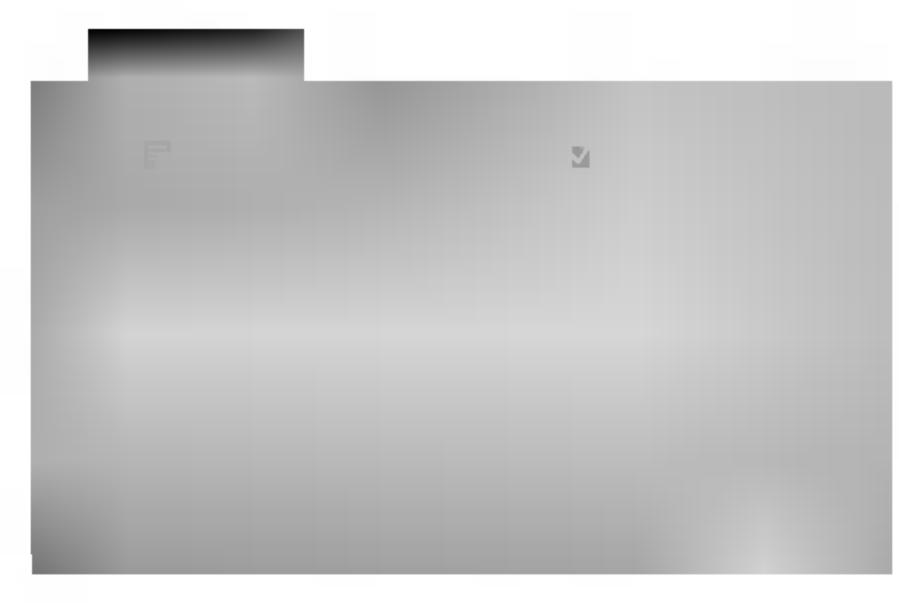
MP3/WMA Menu

Video CD: Press PROGRAM button while playback is stopped.
The program menu appears. Press PROGRAM button again and hold it down for a few seconds to exit the menu.



Note

On a Video CD with **PBC**, you must set **PBC** to **Off** on the setup menu to use the programmed playback.



- 3 Select a track on the **List**, then press **OK** button to place the selected track on the **Program** list. Repeat to place additional tracks on the list.
- 4 Press ► button.
 Select the track you want to start playing on the **Program** list.
- 5 Press PLAY or OK button to start.
 Playback begins in the order in which you programmed the tracks. Playback stops after all of the tracks on the Program list have played once.
- 6 To resume normal playback from programmed playback, select a track on the List and then press PLAY button.

■ Repeat Programmed Tracks

- 1. Press the ►I REPEAT button during playback.
- 2. Each time you press the ►I REPEAT button, the repeat mode changes as follows.

■ Erasing a Track from **Program** list

- 1. Use ▲ / ▼ / ▶ button to select the track that you wish to erase from the Program list.
- 2. Press CLEAR button. Repeat to erase additional tracks on the list.

■ Erasing the Complete **Program** list

- 1. Press ▶ button to move to the **Program** list.
- 2. Use ▲ / ▼ button to select Clear All, then press OK button.

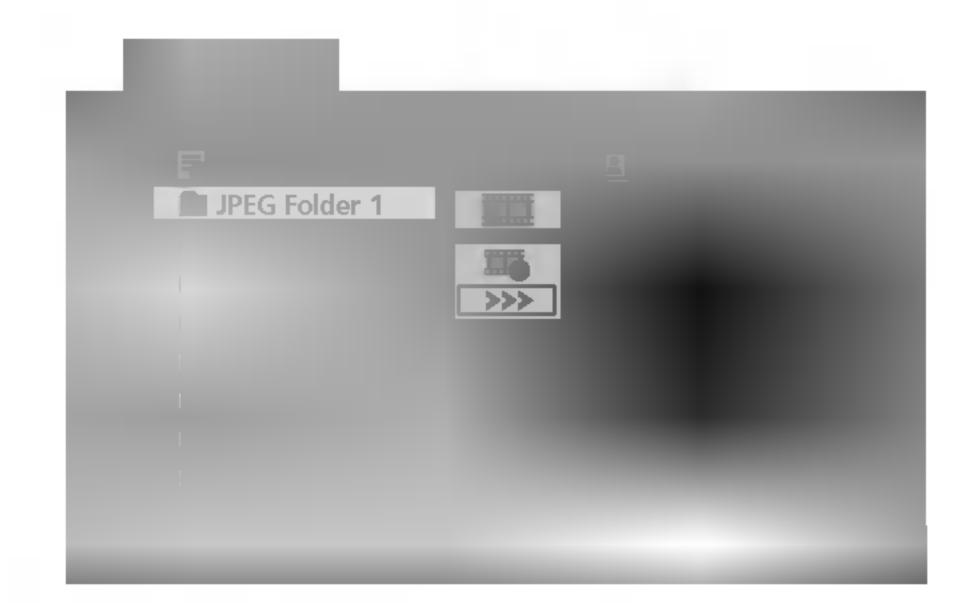


Note

a. The programs are also cleared when the disc is removed.

Viewing a JPEG Disc

- Using this DVD Player you can view Kodak PICTURE CDs and discs with JPEG files.
 - Insert a disc and close the tray. The PHOTO menu appears on the TV screen.



- 2 Press ▲ / ▼ button to select a folder, and press **OK** button. A list of files in the folder appears. If you are in a file list and want to return to the previous Folder list, use the ▲ / ▼ button on the remote to highlight ▲ and press **OK** button.
 - Press DISC MENU button to move to the next page
 - On a disc with MP3/WMA and JPEG you can switch MP3/WMA and JPEG. Press **TITLE** button and MUSIC or PHOTO word on top of the menu is highlighted.
- 3 If you want to view a particular file, press ▲ /▼ button to highlight a file and press OK or ► PLAY button. Viewing the file proceeding starts.
 - While viewing a file, you can press **STOP** button to move to the previous **PHOTO** menu.
 - While viewing a file, If you press RETURN button, information of file is hidden.

■ Slide Show

1. Use ▲ / ▼ / ◀ / ▶ button to highlight the Slide Show) then press **OK** button.

Slide Speed

There are three slide speed options:

 $>>> (Fast) \rightarrow >> (Normal) \rightarrow > (Slow)$

1. Use ▲ / ▼ / ◀ / ▶ button to highlight the Speed. Then, use ◀ / ▶ button to select the option you want to use then press **OK** button.

■ Still Picture

- 1. Press II PAUSE/STEP button during slide show. The player will now go into PAUSE mode.
- 2. To return to the slide show, press PLAY or press II PAUSE/STEP button again.

■ Moving to another File

1. Press I◀◀ SKIP, ▶▶I SKIP, ◀ or ▶ button once while viewing a picture to advance to the next or previous file.

■ Zoom

- Press ZOOM button during playback or still playback. The square frame appears briefly in the right bottom of the picture.
- 2. Each press of the **ZOOM** button changes the TV screen in the sequence:

 $\textbf{100\%} \rightarrow \textbf{400\%} \rightarrow \textbf{1600\%} \rightarrow \textbf{100\%}$

- 3. Use the ▲ / ▼ / ◀ / ▶ buttons to move through the zoomed picture.
- 4. To resume normal playback, press CLEAR button.

■ To rotate picture

1. Press ▲ / ▼ button during showing a picture to rotate the picture clockwise or counter clockwise.

Viewing a JPEG Disc

■ To listen to MP3/WMA music watching picture

You can display files while listening to MP3/WMA music files recorded on the same disc.

- 1. Insert the disc containing the two types of file in the player.
- 2. Press TITLE button to display PHOTO menu.
- 3. Press ▲ / ▼ button to select a photo file.
- 4. Use ▶ button to select icon then press **OK** button.

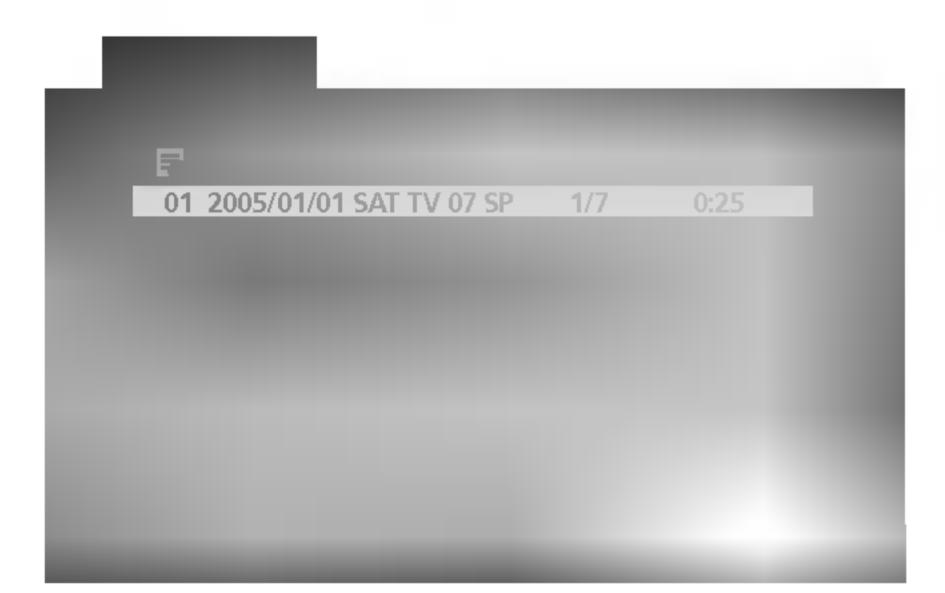
 Playback starts. The playback will continue until **STOP** button is pressed.
- To listen to only the desired music watching picture, programmed the desired tracks from the MUSIC menu and then proceed as above.

■ JPEG disc compatibility with this player is limited as follows:

- Depending upon the size and number of JPEG files, it could take a long time for the DVD player to read the disc's contents. If you don't see an on-screen display after several minutes, some of the files may be too large reduce the resolution of the JPEG files to less than 2M pixels as 2760 x 2048 pixels and burn another disc.
- The total number of files and folders on the disc should be less than 650.
- Some discs may be incompatible due to a different recording format or the condition of disc.
- Ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.
- If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" file.
- File names without ".jpg" extension will not be able to be read by this DVD player. Even though the files are shown as JPEG image files in Windows Explorer.

Playing a DVD VR format Disc

- This unit will play DVD-R/RW discs recorded using the DVD-Video format that have been finalized using a DVD-recorder.
- This unit will play DVD-RW discs recorded using the Video Recording (VR) format.
 - Insert a disc and close the tray. The DVD-VR menu appears on the TV screen.



2 Press ▲ / ▼ button to select a track then press ► PLAY or OK button and playback starts.



- a. Unfinalized DVD-R/RW discs cannot be played in this player.
- b Some DVD-VR disc are made with CPRM data by DVD RECORDER. Player does not support these kinds of discs and display the CHECK DISC.

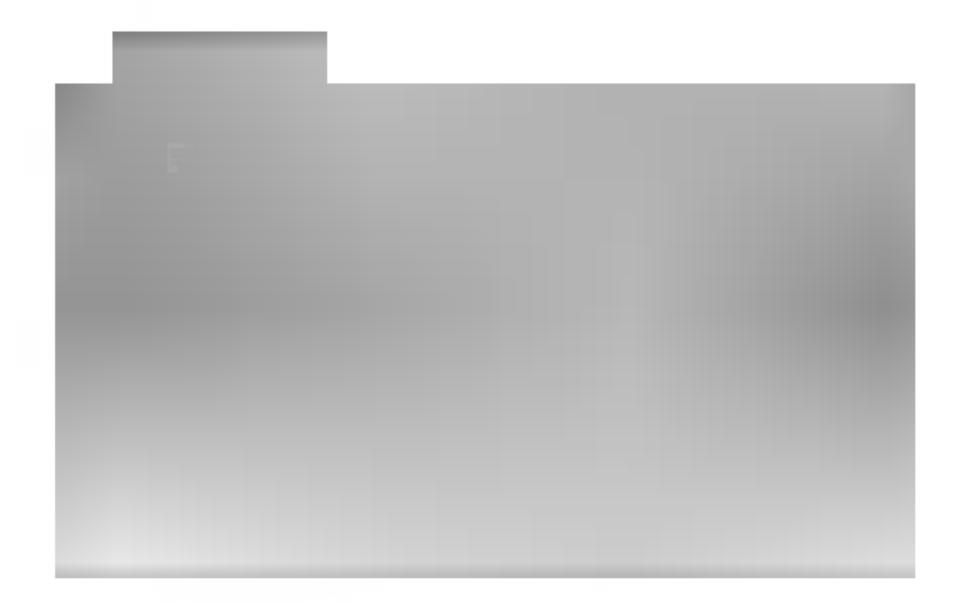
• What is 'CPRM'?

CPRM is a copy protection system (with scramble system) only allowing the recording of 'copy once' broadcast programs. CPRM stands for Content Protection for Recordable Media.

This player is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot then make a copy of those recordings. CPRM recordings can only be made on DVD-RW discs formatted in VR mode, and CPRM recordings can only be played on players that are specifically compatible with CPRM.

Playing a DivX Movie Disc

- Using this DVD Player you can play DivX (Digital Internet Video eXpress) disc.
 - Insert a disc and close the tray. The MOVIE menu appears on the TV screen.



- 2 Press ▲ / ▼ button to select a folder, and press **OK** button. A list of files in the folder appears. If you are in a file list and want to return to the Folder list, use the ▲ / ▼ button on the remote to highlight 🖭 and press **OK** button.
- 3 If you want to view a particular file, press ▲ / ▼ button to highlight a file and press OK or ► PLAY button.
- 4 Press STOP button to exit.
 - On a CD with MP3/WMA, JPEG and MOVIE file, you can switch MUSIC, PHOTO and MOVIE menu. Press TITLE button and MUSIC, PHOTO and MOVIE word on top of the menu is highlighted.

■ DivX disc compatibility with this player is limited as follows:

- Available resolution size of the DivX file is under 720x576 (W x H) pixel.
- The file name of the DivX subtitle is available by 56 characters.
- If there is impossible code to express in the DivX file, it may be displayed as " _ " mark on the display.
- If the number of the screen frame is over 30 per 1 second, this unit may not operate normally.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- If the file is recorded with GMC, the unit supports only 1-point of the record level.

What is 'GMC'?

GMC is the acronym for Global Motion Compensation. It is an encoding tool specified in MPEG4 standard. Some MPEG4 encoders, like DivX or Xvid, have this option. There are different levels of GMC encoding, usually called 1-point, 2-point, or 3-point GMC.

- Playable DivX file: ".avi ", ".mpg ", ".mpeg "
- Playable Codec format
 - "DÍVX3.xx ", "DIVX4.xx ", "DIVX5.xx ", "XVID ", "MP43 ", "3IVX ".
- Playable Audio format
- "AC3 ", "DTS ", "PCM ", "MP3 ", "WMA ".
- Sampling frequency: within 8 48 kHz (MP3), within 32 48kHz (WMA)
- Bit rate: within 8 320kbps (MP3), 32 192kbps (WMA)

Reference

Troubleshooting Checklist

| | The operation does not work normally. |
|------------------------------------|--|
| The remote control doesn't work | Check to see if there is any object between the product and the remote control causing obstruction. Are batteries installed with correct polarity (+ to +, - to -)? Correct remote operating mode set: TV, VCR etc.? Install new batteries. |
| Power is suddenly turned off | Is the sleep timer set? Check the power control settings. Power interrupted No broadcast on station tuned with Auto off activated. |

| | The video function does not work. | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|
| No picture & No sound | Check whether the product is turned on. Try another channel. The problem may be with the broadcast. Is the power cord inserted into wall power outlet? Check your antenna direction and/or location. Test the wall power outlet, plug another product's power cord into the outl where the product's power cord was plugged in. | | | | | | | | | | |
| Picture appears slowly after switching on | 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. | | | | | | | | | | |
| No or poor color or poor picture | Adjust Color in menu option. Keep a sufficient distance between the product and the VCR. Try another channel. The problem may be with the broadcast. Are the video cables installed properly? Activate any function to restore the brightness of the picture. | | | | | | | | | | |
| Horizontal/verti- cal bars or pic- ture shaking | Check for local interference such as an electrical appliance or power tool. | | | | | | | | | | |
| Poor reception on some channels | Station or cable product experiencing problems, tune to another station. Station signal is weak, reorient antenna to receive weaker station. Check for sources of possible interference. | | | | | | | | | | |
| Lines or streaks in pictures | Check antenna (Change the direction of the antenna). | | | | | | | | | | |

| The audio function does not work. | | | | | | | | | | |
|---------------------------------------|---|--|--|--|--|--|--|--|--|--|
| Picture OK & No sound | Press the VOL or VOLUME button. Sound muted? Press MUTE button. Try another channel. The problem may be with the broadcast. Are the audio cables installed properly? | | | | | | | | | |
| No output from one of the speakers | • Adjust Balance in menu option. | | | | | | | | | |
| Unusual sound from inside the product | 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. | | | | | | | | | |

| There is a problem in PC mode. (Only PC mode applied) | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| The signal is out of range. | Adjust resolution, horizontal frequency, or vertical frequency. Check it whether the signal cable is connected or loose. Check the input source. | | | | | | | | | |
| Vertical bar or stripe on back-ground & Horizontal Noise & Incorrect position | • Work the Auto configure or adjust clock, phase, or H/V position. | | | | | | | | | |
| Screen color is unstable or single color | Check the signal cable. Reinstall the PC video card. | | | | | | | | | |

Reference

Language Codes

Use this list to input your desired language for the following initial settings: Disc Audio, Disc Subtitle, Disc Menu.

| Language | Code | Language | Code | Language | Code | Language | Code |
|-----------------|--------------|------------------|--------------|----------------|--------------|------------|--------------|
| Abkhazian | 6566 | Fiji | 7074 | Lingala | 7678 | Singhalese | 8373 |
| Afar | 6565 | Finnish | 7073 | Lithuanian | 7684 | Slovak | 8375 |
| Afrikaans | 6570 | French | 7082 | Macedonian | 7775 | Slovenian | 8376 |
| Albanian | 8381 | Frisian | 7089 | Malagasy | 7771 | Somali | 8379 |
| Ameharic | 6577 | Galician | 7176 | Malay | 7783 | Spanish | 6983 |
| Arabic | 6582 | Georgian | 7565 | Malayalam | 7776 | Sudanese | 8385 |
| Armenian | 7289 | German | 6 869 | Maltese | 7784 | Swahili | 8387 |
| Assamese | 6583 | Greek | 6976 | Maori | 7773 | Swedish | 8386 |
| Aymara | 6588 | Greenlandic | 7576 | Marathi | 7782 | Tagalog | 8476 |
| Azerbaijani | 6590 | Guarani | 7178 | Moldavian | 7779 | Tajik | 8471 |
| Bashkir | 6665 | Gujarati | 7185 | Mongolian | 7778 | Tamil | 8465 |
| Basque | 6985 | Hausa | 7265 | Nauru | 7865 | Tatar | 8484 |
| Bengali; Bangla | 6 678 | Hebrew | 7387 | Nepali | 7869 | Telugu | 8469 |
| Bhutani | 6890 | Hindi | 7273 | Norwegian | 7879 | Thai | 8472 |
| Bihari | 6672 | Hungarian | 7285 | Oriya | 7982 | Tibetan | 66 79 |
| Breton | 6682 | Icelandic | 7383 | Panjabi | 8065 | Tigrinya | 8473 |
| Bulgarian | 6671 | Indonesian | 7378 | Pashto, Pushto | 8083 | Tonga | 8479 |
| Burmese | 7789 | Interlingua | 7365 | Persian | 7065 | Turkish | 8482 |
| Byelorussian | 6669 | Irish | 7165 | Polish | 8076 | Turkmen | 8475 |
| Cambodian | 7577 | Italian | 7384 | Portuguese | 8084 | Twi | 8487 |
| Catalan | 6765 | Japanese | 7465 | Quechua | 8185 | Ukrainian | 8575 |
| Chinese | 9072 | Javanese | 7487 | Rhaeto-Romance | 8277 | Urdu | 8582 |
| Corsican | 6779 | Kannada | 7578 | Rumanian | 8 279 | Uzbek | 8590 |
| Croatian | 7282 | Kashmiri | 7583 | Russian | 8 285 | Vietnamese | 8673 |
| Czech | 6783 | Kazakh | 7575 | Samoan | 8377 | Volapük | 86 79 |
| Danish | 6865 | Kirghiz | 7589 | Sanskrit | 8365 | Welsh | 6 789 |
| Dutch | 7876 | Korean | 7579 | Scots Gaelic | 7168 | Wolof | 8779 |
| English | 6978 | Kurdish | 7585 | Serbian | 8382 | Xhosa | 8872 |
| Esperanto | 6 979 | Laothian | 76 79 | Serbo-Croatian | 8372 | Yiddish | 7473 |
| Estonian | 6984 | Latin | 76 65 | Shona | 8378 | Yoruba | 8979 |
| Faroese | 7079 | Latvian, Lettish | 7686 | Sindhi | 8368 | Zulu | 9085 |

Area Codes

Choose a country code from this list.

| Country | Code | Country | Code | Country | Code | Country | Code |
|----------------|------|---------------|------|----------------------|------|-----------------|------|
| Afghanistan | AF | Ethiopia | ET | Malaysia | MY | Saudi Arabia | SA |
| Argentina | AR | Fiji | FJ | Maldives | MV | Senegal | SN |
| Australia | AU | Finland | FI | Mexico | MX | Singapore | SG |
| Austria | AT | France | FR | Monaco | MC | Slovak Republic | SK |
| Belgium | BE | Germany | DE | Mongolia | MN | Slovenia | SI |
| Bhutan | BT | Great Britain | GB | Morocco | MA | South Africa | ZA |
| Bolivia | ВО | Greece | GR | Nepal | NP | South Korea | KR |
| Brazil | BR | Greenland | GL | Netherlands | NL | Spain | ES |
| Cambodia | KH | Islands | HM | Netherlands Antilles | AN | Sri Lanka | LK |
| Canada | CA | Hong Kong | HK | New Zealand | NZ | Sweden | SE |
| Chile | CL | Hungary | HU | Nigeria | NG | Switzerland | CH |
| China | CN | India | IN | Norway | NO | Taiwan | TW |
| Colombia | CO | Indonesia | ID | Oman | OM | Thailand | TH |
| Congo | CG | Israel | IL | Pakistan | PK | Turkey | TR |
| Costa Rica | CR | Italy | IT | Panama | PA | Uganda | UG |
| Croatia | HR | Jamaica | JM | Paraguay | PY | Ukraine | UA |
| Czech Republic | CZ | Japan | JP | Philippines | PH | United States | US |
| Denmark | DK | Kenya | KE | Poland | PL | Uruguay | UY |
| Ecuador | EC | Kuwait | KW | Portugal | PT | Uzbekistan | UZ |
| Egypt | EG | Libya | LY | Romania | RO | Vietnam | VN |
| El Salvador | SV | Luxembourg | LU | Russian Federation | RU | Zimbabwe | ZW |

IR codes

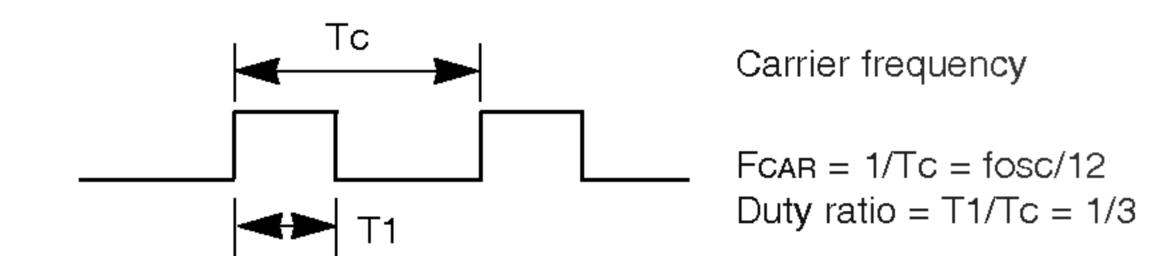
How to Connect

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

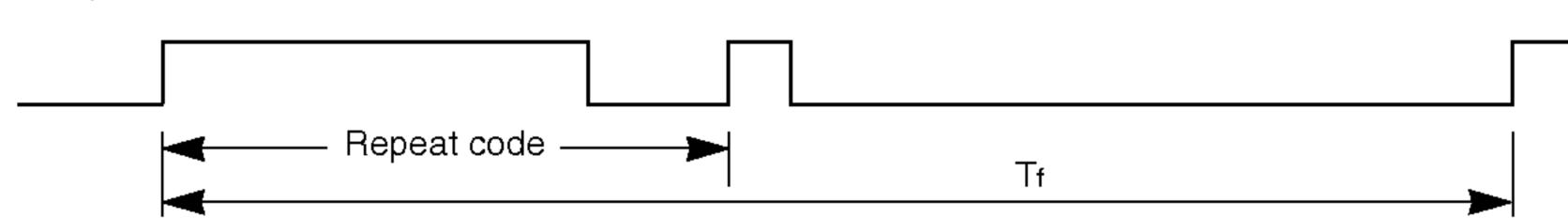


► Configuration of frame

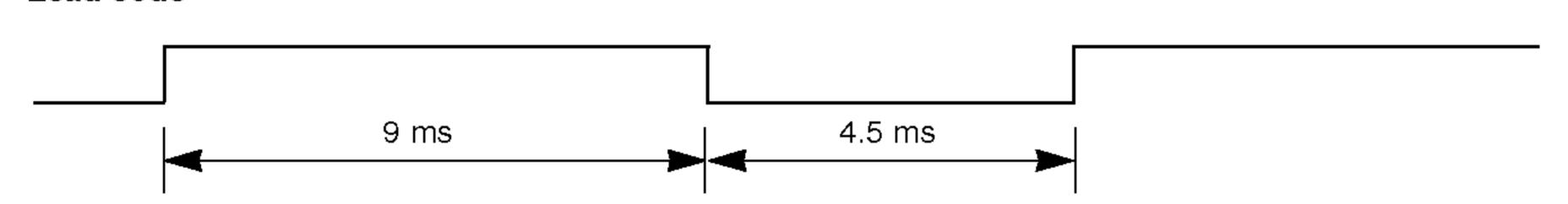
• 1st frame

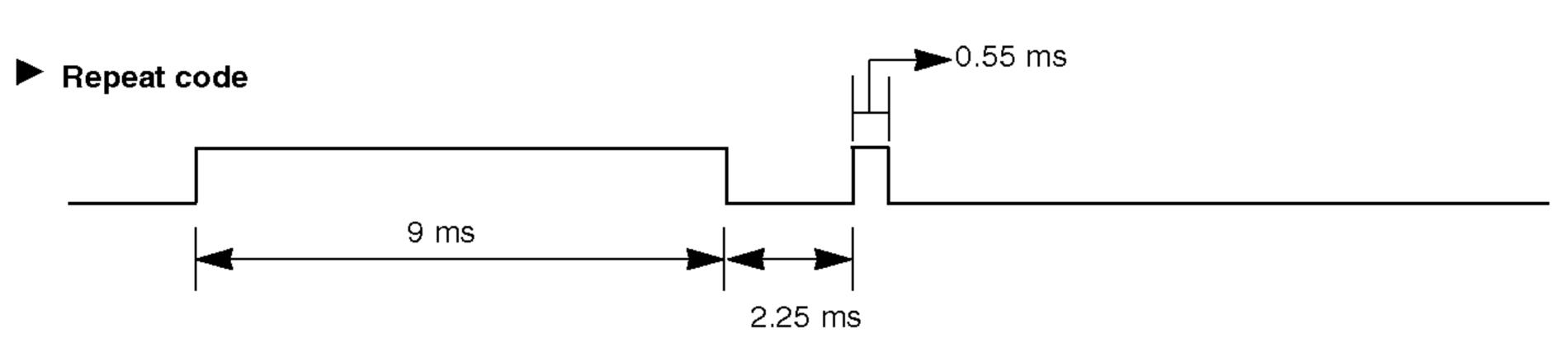
| Lead code | Low custom code | | | | High custom code | | | | | | | Data code | | | | | | | Data code | | | | | | | | | | | | | |
|--------------|--------------------|----|----|----|------------------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|----|----|----|----|----|------|----|
| | C0 | C1 | C2 | СЗ | C4 | C5 | С6 | C7 | Co | C1 | C2 | СЗ | C4 | C5 | C6 | С7 | DO | D1 | D2 | DЗ | D4 | D5 | D6 | D7 | DO | D1 | D2 | DЗ | D4 | D5 | D6 [| 57 |

Repeat frame

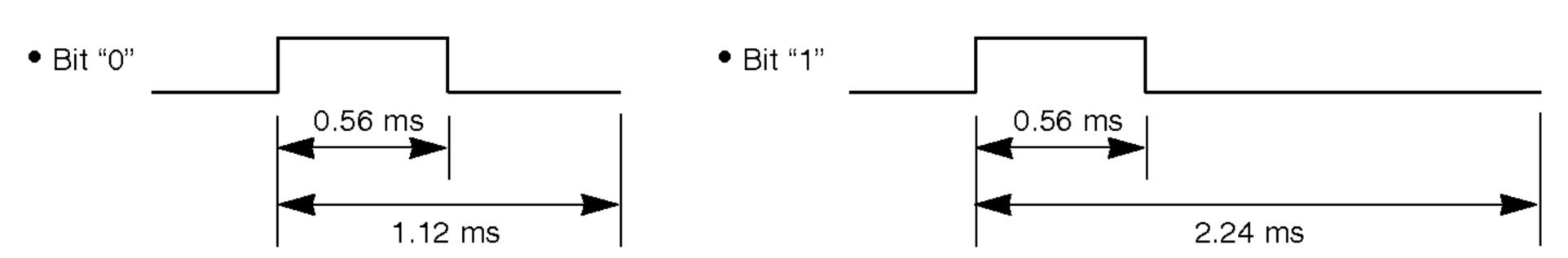


► Lead code



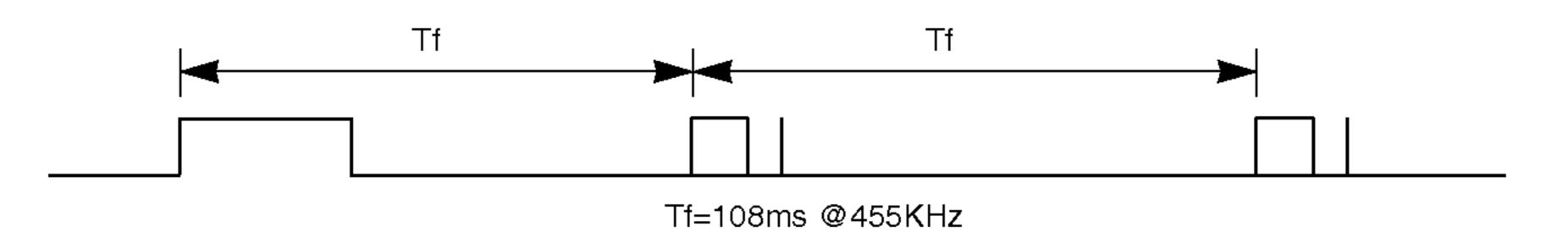


► Bit description



Frame interval : Tf

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



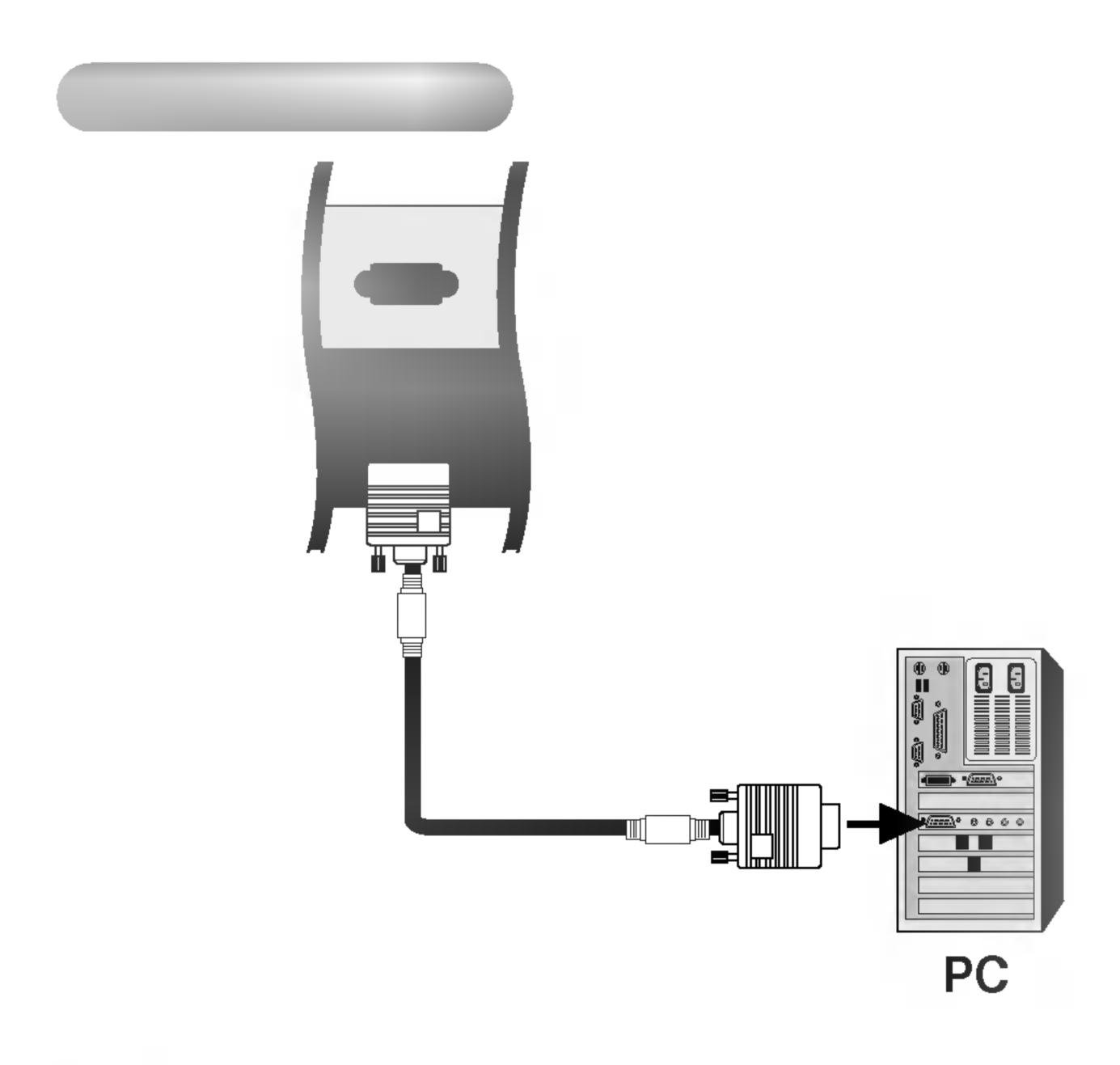
Reference

IR codes

| Code (Hexa) | Function | Note |
|-------------|-----------------|---|
| 0BH | TV/AV | Remote Control Button |
| 08H | POWER | Remote Control Button |
| 98H | MULTIMEDIA | Remote Control Button |
| 53H | LIST | Remote Control Button |
| 20H | TEXT | Remote Control Button |
| 4DH | PSM | Remote Control Button |
| 52H | SSM | Remote Control Button |
| OAH | 1/11 | Remote Control Button |
| 43H | MENU | Remote Control Button |
| 79H | ARC | Remote Control Button |
| 5BH | EXIT | Remote Control Button |
| 07H | ■ | Remote Control Button |
| 06H | ▶ | Remote Control Button |
| 40H | | Remote Control Button |
| 41H | ▼ | Remote Control Button |
| 44H | OK | Remote Control Button |
| 72H | RED | Remote Control Button |
| 71H | GREEN | Remote Control Button |
| 63H | YELLOW | Remote Control Button |
| 61H | BLUE | Remote Control Button |
| 02H | VOL 🛦 | Remote Control Button |
| 03H | VOL ▼ | Remote Control Button |
| 00H | PR ▲ | Remote Control Button |
| 01H | PR ▼ | Remote Control Button |
| 09H | MUTE | Remote Control Button |
| 1AH | Q.VIEW | Remote Control Button |
| 10H~19H | Number Key 0~ 9 | Remote Control Button |
| OEH | SLEEP | Remote Control Button |
| 26H | TIME | Remote Control Button |
| 24H | MIX | Remote Control Button |
| 2AH | REVEAL | Remote Control Button |
| 22H | MODE | Remote Control Button |
| 62H | UPDATE | Remote Control Button |
| 64H | SIZE | Remote Control Button |
| 65H 70H | HOLD INDEX | Remote Control Button Remote Control Button |
| 7 01 1 | INDLY | Tremote Control Button |

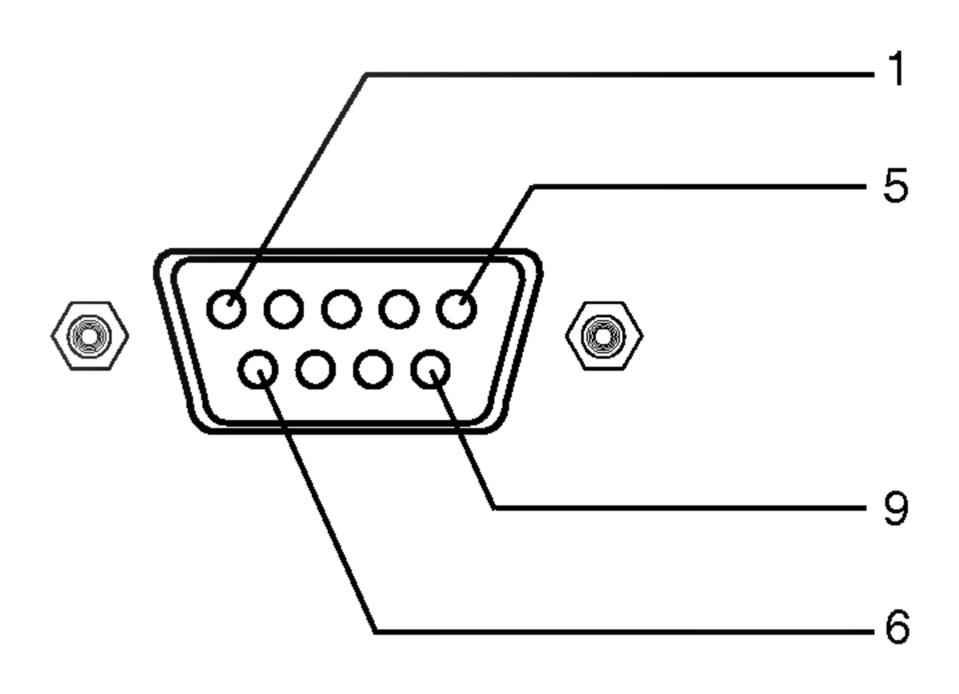
External Control Device Setup; RS-232C

- 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.

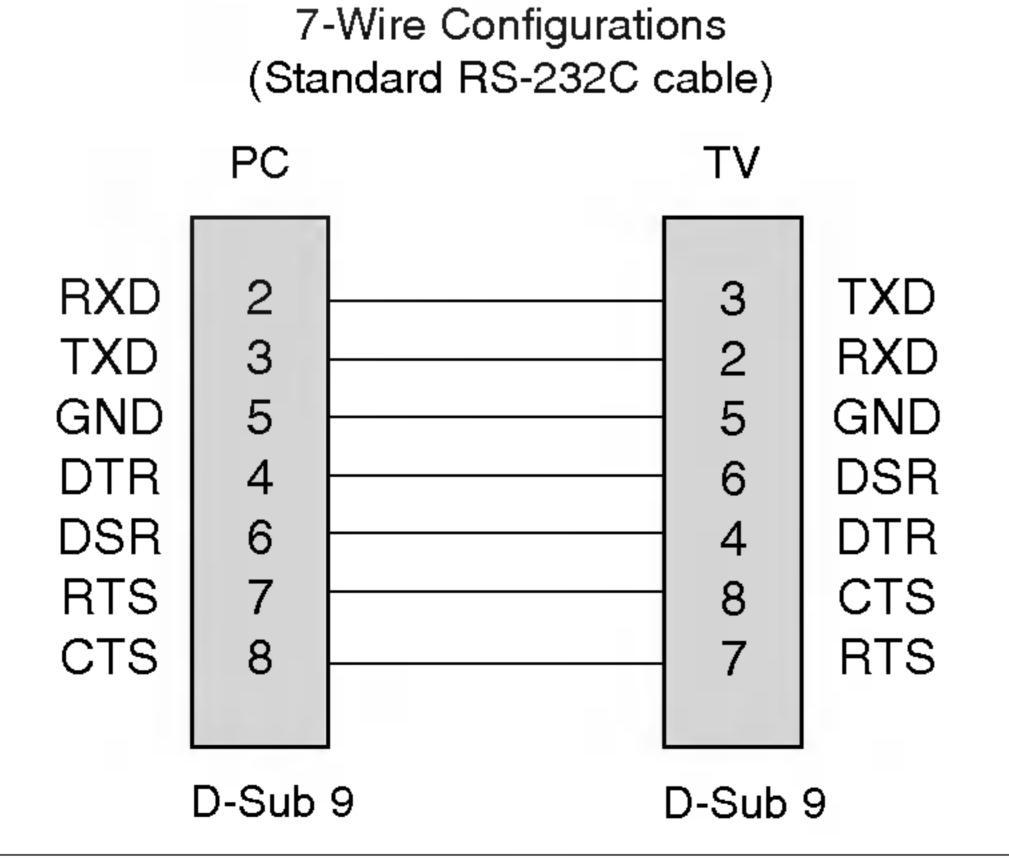


Type of Connector; D-Sub 9-Pin Male

| 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



(Not standard) PC TXD RXD RXD TXD GND GND 5 DTR DTR DSR DSR RTS RTS CTS CTS

D-Sub 9

D-Sub 9

3-Wire Configurations

Reference

External Control Device Setup; RS-232C

- Use this function to specify a monitor ID number.
- Refer to 'Real Data Mapping 1'. See page 69.
- Press the MENU button and then use ▲ / ▼ button to select the Setup 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 bitsParity: None

* Use a crossed (reverse) cable.

• Stop bit : 1 bit

• Communication code : ASCII code

| | COMMAND 1 | COMMAND 2 | DATA (Hexa) |
|--------------------|--------------|--------------|----------------|
| 01. Power | k | а | 0 ~ 1 |
| 02. Input Select | k | b | * |
| 03. Aspect Ratio | k | С | 0 ~ 4 |
| 04. Screen Mute | k | d | 0 ~ 1 |
| 05. Volume Mute | k | е | 0 ~ 1 |
| 06. Volume Control | k | f | 0 ~ 64 |
| 07. Contrast | k | g | 0 ~ 64 |
| 08. Brightness | k | h | 0 ~ 64 |
| 09. Colour | k | i | 0 ~ 64 |
| 10. Tint | k | j | 0 ~ 64 |
| 11. Sharpness | k | k | 0 ~ 64 |
| 12. OSD Select | k | | 0 ~ 1 |
| 13. Key Lock | k | m | 0 ~ 1 |
| 14. Balance | k | t | 0 ~ 64 |
| 15. Tune Command | m | а | 0 ~ 63 |
| 16. Skip programme | m | b | 0~1 |
| 17. Key | m | С | Key Code |

^{*:} Refer to '02. Input Select' on page 69.

Transmission / Receiving Protocol

<u>Transmission</u>

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

- * [Command 1]: First command. (m or k)
- * [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.

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

<u>Acknowledgement</u>

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

To show Power On/Off.

Transmission

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

<u>Acknowledgement</u>

[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 TV/AV button on the TV's remote control.

Transmission

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

30 : S-Video 60 : PC 40 : DVD

<u>Acknowledgement</u>

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

03. 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.

<u>Transmission</u>

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

2:14:9

- * In PC mode only 16:9 and 4:3 aspect ratios are available.
- * In **DVD**, **Component1**,or **Component2** mode, **Auto** aspect ratio is not available.

<u>Acknowledgement</u>

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

04. Screen Mute (Command:d)

To select screen mute on/off.

<u>Transmission</u>

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

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

<u>Acknowledgement</u>

[d][][Set ID][][OK][Data][x]

05. 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 off (Volume on)
1: Volume mute on (Volume off)

Acknowledgement

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

06. 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

Refer to 'Real data mapping 1' as shown below.

<u>Acknowledgement</u>

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

07. 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

Refer to 'Real data mapping 1' as shown below.

<u>Acknowledgement</u>

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

08. 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

Refer to 'Real data mapping 1' as shown below.

<u>Acknowledgement</u>

[h][][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 : -50 ~ +50

* Balance : -50 ~ +50

Reference

External Control Device Setup; RS-232C

09. 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

• Refer to 'Real data mapping 1'. See page 69.

Acknowledgement

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

10. Tint (Command:j)

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

<u>Transmission</u>

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

Data: Green 0 ~ Red: 64

• Refer to 'Real data mapping 1'. See page 69.

<u>Acknowledgement</u>

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

11. Sharpness (Command:k)

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

<u>Transmission</u>

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

Data Min: 0 ~ Max: 64

Refer to 'Real data mapping 1'. See page 69.

<u>Acknowledgement</u>

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

12. OSD Select (Command:I)

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

<u>Transmission</u>

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

Data 0: OSD mute on 1: OSD mute off

<u>Acknowledgement</u>

[I][][Set ID][][OK][Data][x]

13. Key Lock (Command:m)

To lock the remote control and the front panel controls on the TV.

Transmission

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

Data 0: Lock off 1: Lock on

<u>Acknowledgement</u>

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

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

14. 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 69.

<u>Acknowledgement</u>

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

15. Tune Command (Command:m a)

Tune channel to following Physical/major/minor number.

<u>Transmission</u>

[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]

16. Skip programme (Command:m b)

To skip the current programme.

Transmission

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

Data0: (Programme)Skip on-0, (Programme)Skip off-1

Acknowledgement

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

17. Key (Command:m c)

To send IR remote key code.

Transmission

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

Data: Key code (Refer to P.66)

Acknowledgement

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

