



# *DVD Player*

## OWNER'S MANUAL

MODEL: DVK-9911N / DVK-9711N



Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

P/NO : 3834RD0045X

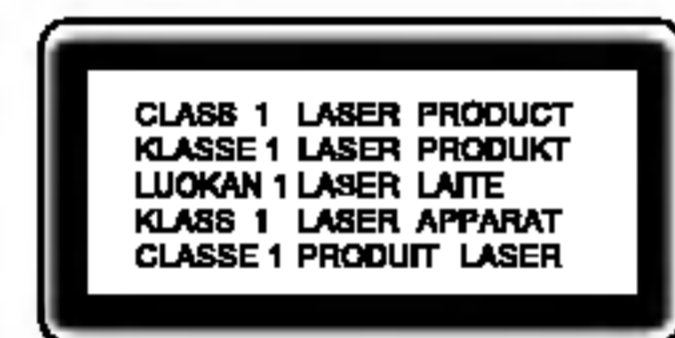
## Safety Precautions



CAUTION: THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.



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.



CAUTION: This product 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 center. 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.**



WARNING: Do not install this equipment in a confined space such as a bookcase or similar unit.

### CAUTION concerning the Power Cord

**Most appliances recommend they be placed upon a dedicated circuit;** That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.


**SERIAL NUMBER:** The serial number is found on the bottom of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

## Table of Contents

### Introduction

Safety Precautions	2
Table of Contents	3
Before Use	4-5
Symbol used in this Manual	4
About the  Symbol Display	4
Notes on Discs	4
Remote Control Battery Installation	4
Maintenance and Service	5
Types of Playable Discs	5
Front Panel	6
Remote Control	7
Setting up the Player	8-9
DVD Player Connections	8
Audio Connection to Optional Equipment	9

### Advanced Operations

General Features	10-16
On-Screen Display	10
Moving to another CHAPTER/TRACK	10
Slow Motion	10
Title Menu	10
Disc Menu	10
Changing the Audio Language	10
Search	10
Still Picture and Frame-by-Frame Playback	10
Marker Search	11
Repeat A-B	11
Repeat	11
Random	11
Zoom	12
Camera Angle	12
Subtitles	12
Changing the Audio Channel	12
Last Scene Memory	12
Screen Saver	12

Playing an Audio CD and MP3/WMA Disc	13
MP3 / WMA disc compatibility with this player is limited as follows	13
Audio CD and MP3/WMA Disc Features	14
• Pause	14
• Moving to another Track	14
• Random	14
• Repeat Track/ All/ Normal	14
• Repeat A-B	14
• Search	14
Viewing a JPEG disc	15
• Moving to another File	15
• To rotate picture	15
• Still Picture	15
• Zoom	15
• JPEG disc compatibility with this player is limited as follows	15
Programmed Playback	16
• Erasing a Track from program list	16

### Initial Settings

Initial Settings	17-22
General Operation	17
LANGUAGE	17
DISPLAY	18
AUDIO	19
LOCK (Parental Control)	20-21
OTHERS	22

### Reference

Additional Information	23
Controlling other TVs with the remote control	23
Using the Karaoke Function	24
Troubleshooting	25
Language Codes	26
Area Codes	27
Specifications	28

## Before Use

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.

This manual provides information on the operation and maintenance of your DVD player. Should the unit require service, contact an authorized service location.

### Symbol Used in this Manual



The lightning flash symbol alerts you to the presence of dangerous voltage within the product enclosure that may constitute a risk of electric shock.



The exclamation point alerts you to the presence of important operating and maintenance / servicing instructions.



Indicates hazards likely to cause harm to the unit itself or other material damage.

**DVD** DVD and finalized DVD±R/RW

**VCD** Video CDs.

**CD** Audio CDs.

**MP3** MP3 discs.

**WMA** WMA discs.

**JPEG** JPEG discs.

**CD-G** CD-G discs

#### **NOTE**

Indicates special notes and operating features.

#### **TIP**

Indicates tips and hints for making the task easier.

A section whose title has one of the following symbols is applicable only to the disc represented by the symbol.

### About the ∅ Symbol Display

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

### Notes on Discs

#### Handling Discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.

#### Storing Discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

#### Cleaning Discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.

Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

### Remote Control Battery Installation

Detach the battery cover on the rear of the remote control, and insert two batteries (size AAA) with **+** and **-** aligned correctly.

## Before Use (Continued)

### Maintenance and Service

Refer to the information in this chapter before contacting a service technician.

### Handling the Unit

#### When shipping the unit

Please save the original shipping carton and packing materials. If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory.

#### Keeping the exterior surfaces clean

- Do not use volatile liquids such as insecticide spray near the unit.
- Do not leave rubber or plastic products in contact with the unit for a long period of time, since they leave marks on the surface.

#### Cleaning the unit

To clean the player, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution.

Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

#### Maintaining the Unit

The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality could be diminished.

Depending on the operating environment, regular inspection and maintenance are recommended after every 1,000 hours of use.

For details, please contact your nearest authorized service center.

### Types of Playable Discs

This unit plays DVD, Video CD, Audio CD, DVD±R, DVD±RW, SVCD, and CD-R or CD-RW that contains audio titles, MP3, WMA or JPEG files.

**Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic”, and the double-D symbol are trademarks of Dolby Laboratories.**

**DTS and DTS Digital Out are trademarks of Digital Theater Systems, Inc.**

#### NOTES

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/±RW) disc itself, some CD-R/RW (or DVD±R/±RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal) since they may result in malfunctions.

#### Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally programmed by software manufacturers. This unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, therefore some playback features may not be available or other functions may be added.

#### Regional code

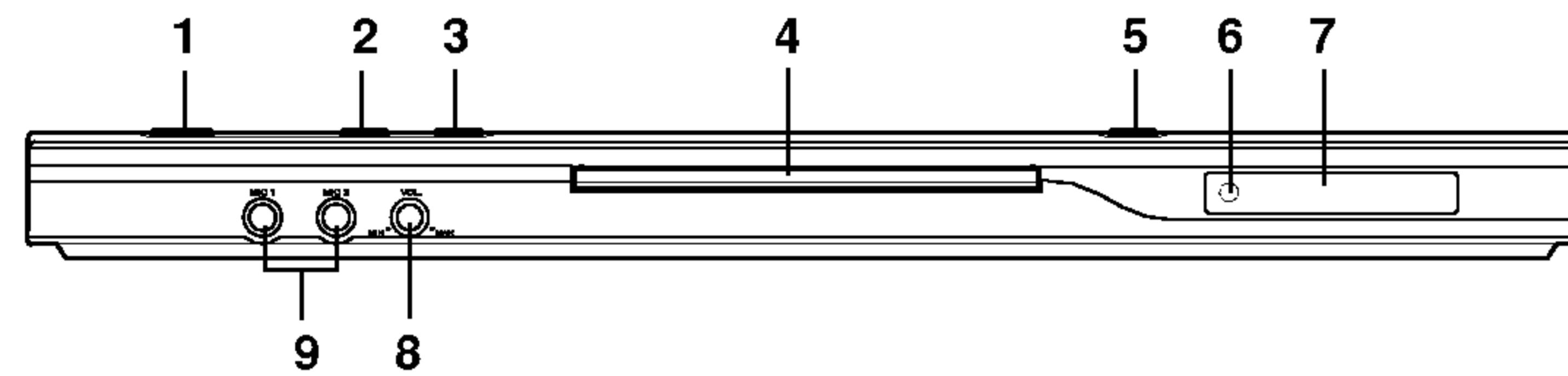
This DVD player is designed and manufactured for playback of region “4” encoded DVD software. This unit can play only DVD discs labeled “4” or “ALL”.

If you try to play a DVD with a different region code from your player, the message “Check Regional Code” appears on the TV screen.

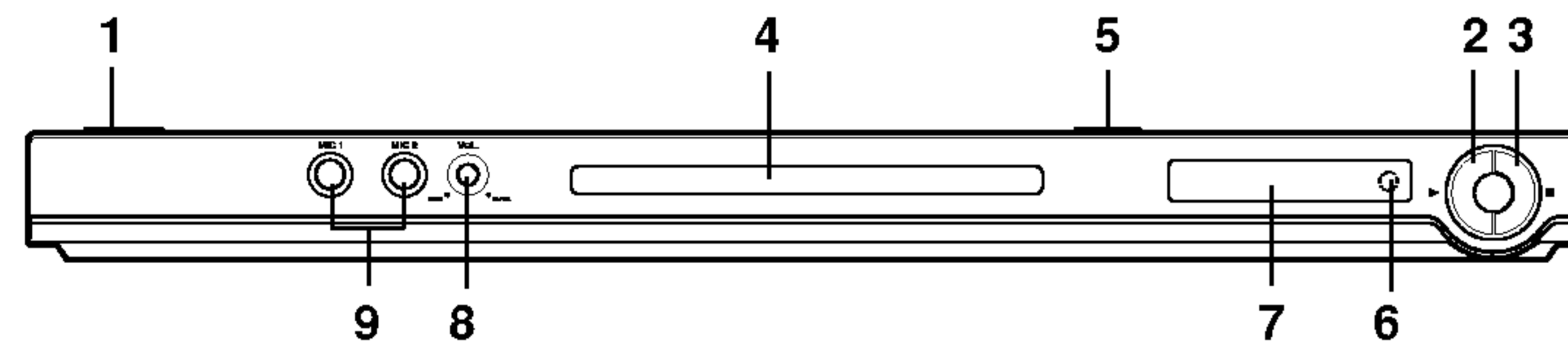


## Front Panel

### DVK-9711N

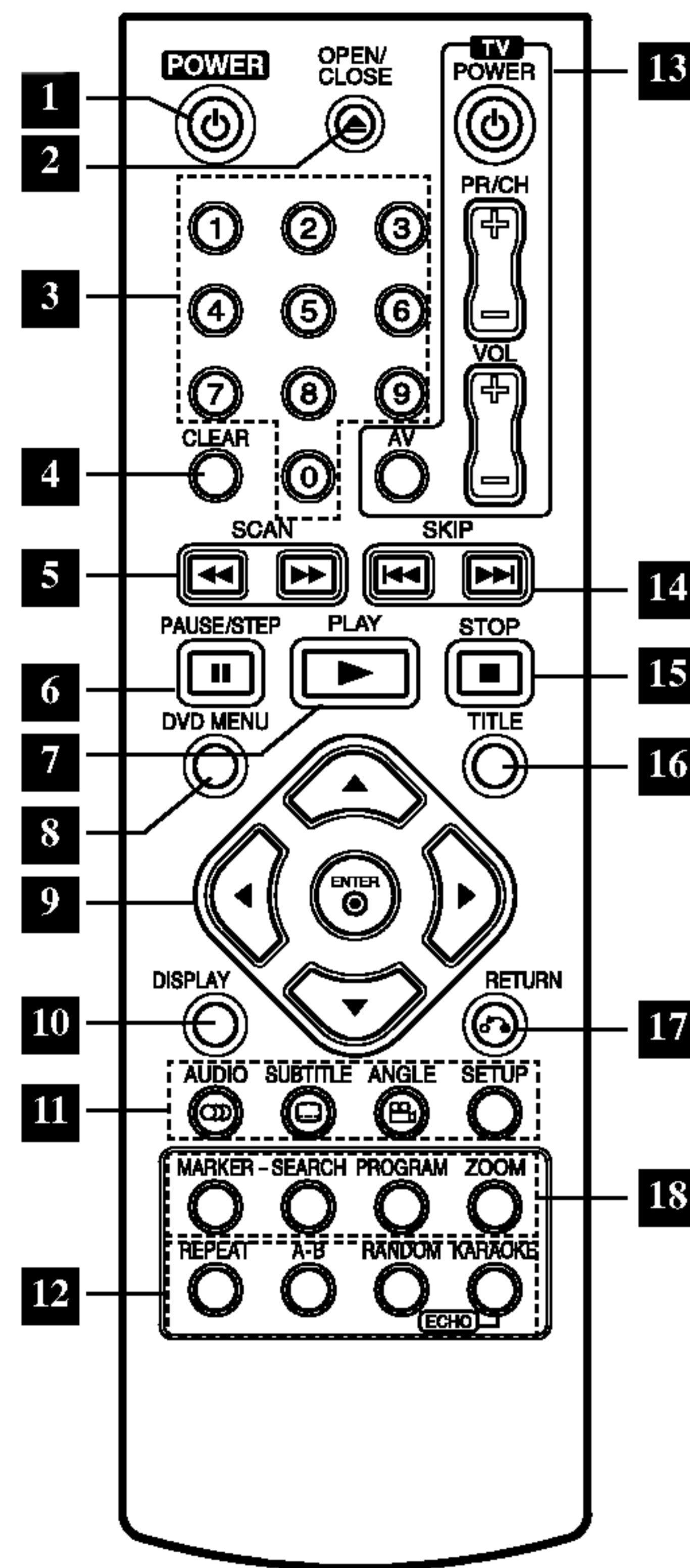


### DVK-9911N



- 1. POWER**  
Switches the player ON and OFF.
- 2. PLAY (▶)**  
Starts playback.
- 3. STOP (■)**  
Stops playback.
- 4. Disc Tray**  
Insert a disc here.
- 5. OPEN / CLOSE (▲)**  
Opens or closes the disc tray.
- 6. Display window**  
Shows the current status of the player.
- 7. Remote Sensor**  
Point the DVD Player remote control here.
- 8. Microphone volume controls**  
Adjusts microphone volume.
- 9. Microphone jacks (MIC1, MIC2)**  
Connect a microphone to MIC1 or MIC2 or to both sockets.

## Remote Control



- 1 POWER**  
Switches DVD Player ON and OFF.
- 2 OPEN / CLOSE**  
Opens and closes the disc tray.
- 3 0-9 number buttons**  
Selects numbered items in a menu.
- 4 CLEAR**  
Removes a track number on the Playlist or a mark on the MARKER SEARCH menu.
- 5 SCAN ( ◀▶ / ▶▶ )**  
Search backward or forward.
- 6 PAUSE / STEP ( II )**  
Pauses playback temporarily/ press repeatedly for frame-by-frame playback.
- 7 PLAY ( ▶ )**  
Starts playback.
- 8 DVD MENU**  
Accesses menu on a DVD disc.
- 9 • ◀▶▲▼ (left/right/up/down)**  
Selects an item in the menu.
- ENTER**  
Confirms menu selection.

- 10 DISPLAY**  
Accesses On-Screen display.
- 11 • AUDIO**  
Selects an audio language (DVD).
- SUBTITLE**  
Selects a subtitle language.
- ANGLE**  
Selects a DVD camera angle if available
- SETUP**  
Accesses or removes setup menu.
- 12 • REPEAT**  
Repeat chapter, track, title all.
- A-B**  
Repeat sequence.
- RANDOM**  
Plays tracks in random order.
- KARAOKE (ECHO)**  
Accesses or removes KARAOKE menu.
- 13 TV Control Buttons**
- TV POWER:**  
Turns the TV on or off.
- TV PR/CH +/-:**  
Selects TV's channel.

- TV VOL +/-:**  
Adjusts TV's volume.
- AV:**  
Selects the TV's source.
- 14 SKIP ( ◀◀ / ▶▶ )**  
Go to next chapter or track.  
Returns to beginning of current chapter or track or go to previous chapter or track.
- 15 STOP ( ■ )**  
Stops playback.
- 16 TITLE**  
Displays title menu, if available.
- 17 RETURN**  
Removes the setup menu, displays the video CD with PBC.
- 18 • MARKER**  
Marks any point during playback.
- SEARCH**  
Displays MARKER SEARCH menu.
- PROGRAM**  
Places a track on the program list.
- ZOOM**  
Enlarges video image.

## Setting up the Player

### DVD Player Connections

Depending on your TV and other equipment there are various ways you can connect the player. Please refer to the manuals of your TV, stereo system or other devices as necessary for additional connection information.

#### Video and Audio Connections to Your TV

Make sure the DVD player is connected directly to the TV and not to a VCR, otherwise the DVD image could be distorted by the copy protection system.

**Video:** Connect the VIDEO OUT jack on the DVD player to the video in jack on the TV using the video cable (V).

**Component Video (Color Stream®):** Connect the COMPONENT VIDEO OUT/PROGRESSIVE SCAN jacks on the DVD Player to the corresponding in jacks on the TV using an Y Pb Pr cable (C).

#### Audio Connection to Your TV:

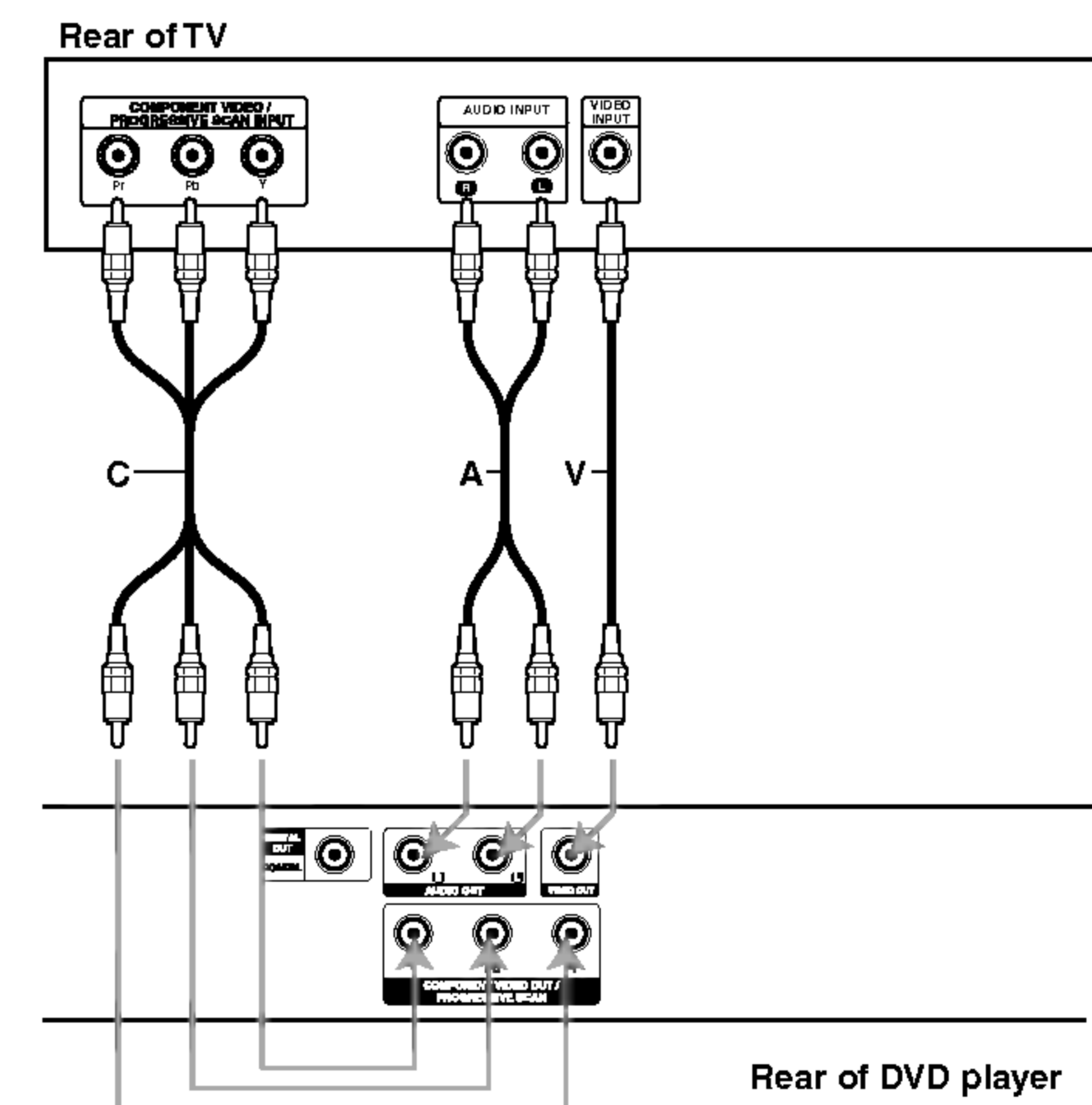
Connect the left and right AUDIO OUT jacks of the DVD Player to the audio left and right IN jacks on the TV (A) using the audio cables. Do not connect the DVD Player's AUDIO OUT jack to the phone in jack (record deck) of your audio system.

#### Progressive Scan (ColorStream® pro):

- If your television is a high-definition or “digital ready” television, you may take advantage of the DVD Player’s progressive scan output for the highest video resolution possible.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD Player.

#### NOTES

- Set the Progressive to “On” on the setup menu for progressive signal, see page 18.
- Set the progressive to “Off” by removing any disc from the unit and close the disc tray. see that “no disc” is displayed on the display window. Then press STOP and hold it for five seconds before releasing it.
- Progressive scan does not work with the analog video connections (yellow VIDEO OUT jack).

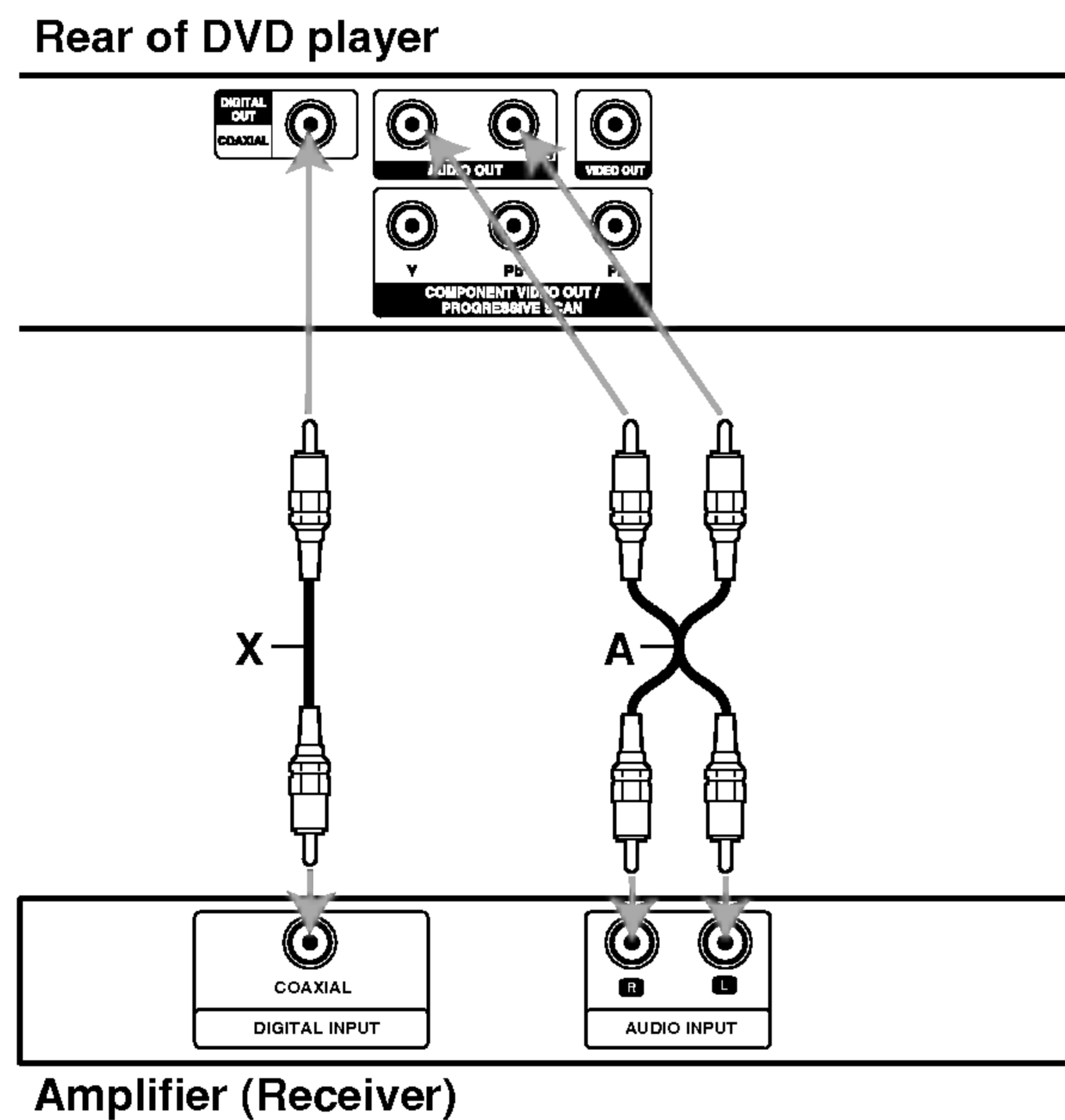




## Setting up the Player (continued)

### Audio Connection to Optional Equipment

Connect the DVD player to your optional equipment for audio output.



**Amplifier equipped with 2-channel analog stereo or Dolby Pro Logic II / Pro Logic:** Connect the left and right AUDIO OUT jacks on the DVD player to the audio left and right IN jacks on your amplifier, receiver, or stereo system, using the audio cables (A).

**Amplifier equipped with 2-channel digital stereo (PCM) or audio / video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS):** Connect one of the DVD Player's DIGITAL AUDIO OUT jacks (COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (coaxial X) audio cable.

#### Digital Multi-channel sound

A digital multi-channel connection provides the best sound quality. For this you need a multi-channel audio / video receiver that supports one or more of the audio formats supported by your DVD player such as MPEG 2, Dolby Digital and DTS. Check the receiver manual and the logos on the front of the receiver.

#### NOTES

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver produces a strong, distorted sound or no sound at all.
- Six Channel Digital Surround Sound via a digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
- To see the audio format of the current DVD in the on-screen display, press AUDIO.

## General Features

### On-Screen Display **DVD** **VCD**

Some items can be changed using the menu.

1. Press DISPLAY during playback.
2. Press ◀ / ▶ to select an item.  
The selected item is highlighted.
3. Press ▲ / ▼ to change the setting.  
Press ENTER.  
You can also use the number buttons if appropriate  
(e.g. inputting the title number).

**T** 02:04 : Title(Track) Number, **C** 0:09:28 : Time search

**ⓐ** 02:04 : Chapter Number (DVD disc only)

### Moving to another CHAPTER/TRACK **DVD** **VCD**

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 SKIP **⏮** or **⏭** briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.  
Press SKIP **⏮** twice briefly to step back to the previous chapter/track.

### Slow Motion **DVD** **VCD**

1. Press PAUSE/STEP (**⏸**) during playback.  
The player will now go into PAUSE mode.
2. Use the SCAN **⏮** to select the required speed:  
**⏮** 1/16, **⏮** 1/8, **⏮** 1/4, or **⏮** 1/2 (forward).
3. To exit slow motion mode, press PLAY.

### Title Menu **DVD**

#### Checking the contents of DVD discs: Menus

DVDs may offer menus that allow you to access special features. To use the disc menu, press TITLE.

Input the corresponding number or use the ◀ ▶ ▲ ▼ buttons to highlight your selection. Then press ENTER.

### Disc Menu **DVD**

Press DVD MENU and the disc menu is displayed.

Press DVD MENU again to exit.

### Changing the Audio Language **DVD**

Press AUDIO repeatedly during playback to hear a different audio language or audio track.

### Search **DVD** **VCD**

1. Press SCAN (**⏮** or **⏭**) during playback.
2. Press SCAN (**⏮** or **⏭**) repeatedly to select the required speed.  
DVD; X2, X4, X16 or X32  
Video CD; X2, X4 or X8
3. To exit Search mode, press PLAY.

### Still Picture and Frame-by-Frame Playback

#### **DVD** **VCD**

Press PAUSE/STEP on the remote control during playback. Advance the picture frame-by-frame by pressing PAUSE/STEP repeatedly.  
Press PLAY to exit still motion mode.

## General Features (continued)

### Marker Search **DVD** **VCD**

#### To enter a Marker

You can start playback from up to nine memorized points. To enter a marker, press MARKER 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. The marker search menu appears on TV the screen.
2. Within 10 seconds, press ◀/▶ to select a marker number that you want to recall or clear.
3. Press ENTER and playback starts from the marked scene.  
Or, Press CLEAR and the marker number is erased from the list.
4. You can play any marker by inputting its number on the marker search menu.

### Repeat A-B **DVD** **VCD**

To repeat a sequence.

1. Press A-B at your chosen starting point. "A" appears briefly on the TV screen.
2. Press A-B again at your chosen end point.  
"A B" appears briefly on the TV screen and the repeat sequence begins.
3. Press A-B again to cancel.

### Repeat **DVD** **VCD**

Press REPEAT during playback to select a desired repeat mode.

#### DVD Video Discs

- Chapter: repeats the current chapter.
- Title: repeats the current title.
- Off: does not play repeatedly.

#### Video CDs

- Track: repeats the current track
- All: repeats all the tracks on a disc.
- Off: does not play repeatedly.

#### NOTES

- On a Video CD with PBC, you must set PBC to Off on the setup menu to use the repeat function (See "PBC" on page 22).
- If you press SKIP (▶▶) once during Repeat Chapter (Track) playback, the repeat playback cancels.

### Random **VCD**

1. Press RANDOM during playback. The unit automatically begins random playback and **Random** appears on the TV screen.
2. To return to normal playback, press RANDOM repeatedly until **Normal** appears on the menu screen.

#### TIPS

- By pressing SKIP (▶▶) during random playback, the unit selects another track and resumes random playback.
- On a Video CD with PBC, You must set PBC to Off on the setup menu to use the random function  
(See "PBC" on page 22).

## General Features (continued)

### Zoom **DVD** **VCD**

Use zoom to enlarge the video image.

1. Press ZOOM during playback to activate the Zoom function.
2. Each press of the ZOOM button changes the screen in the sequence: 200% → 300% → 400% → Normal (4 steps).
3. Use the ◀ ▶ ▲ ▼ buttons to move through the zoomed picture.
4. To resume normal playback, press CLEAR.

#### **NOTE**

Zoom may not work on some DVDs.

### Camera Angle **DVD**

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.

Press ANGLE repeatedly during playback to select a desired angle.

Note that the number of the current angle appears on the display.

### Subtitles **DVD**

Press SUBTITLE repeatedly during playback to display the different subtitle languages.

### Changing the Audio Channel **VCD**

Press AUDIO repeatedly during playback to hear a different audio channel (Stereo, LEFT or RIGHT).

### Last Scene Memory **DVD** **CD** **VCD**

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 switch off the player. 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.

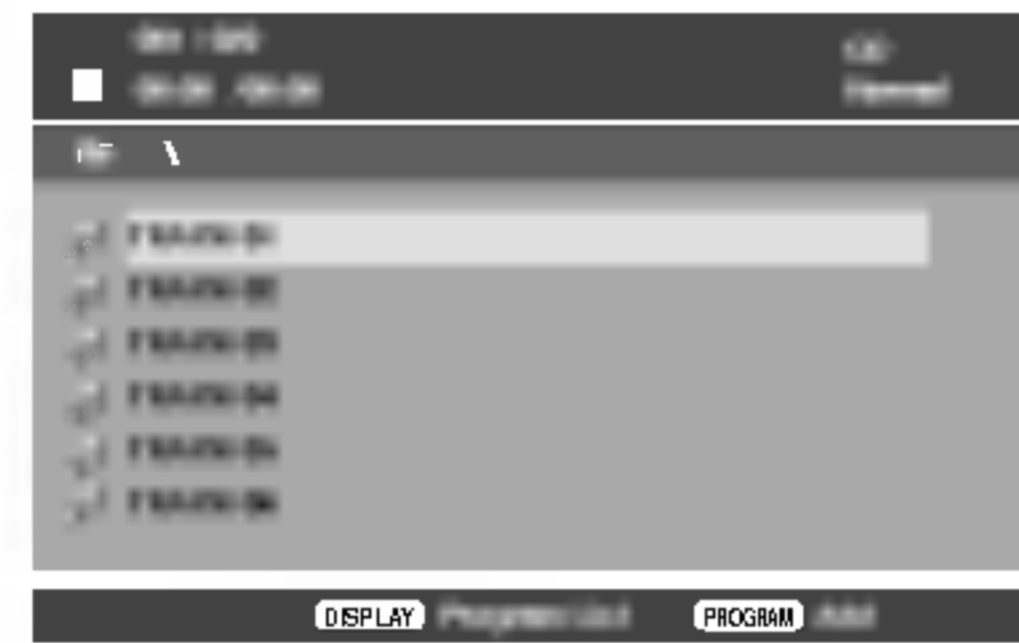
### Screen Saver

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.

## Playing an Audio CD or MP3/WMA Disc

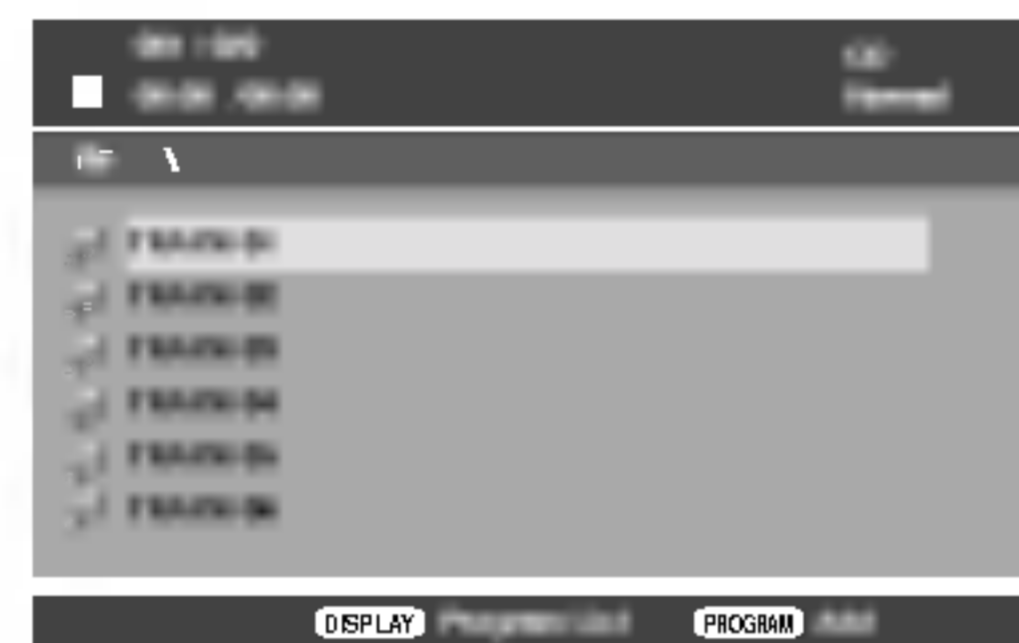
### Audio CD

Once you insert an audio CD a menu appears on the TV screen. Press ▲ / ▼ to select a track then press PLAY or ENTER to playback starts.



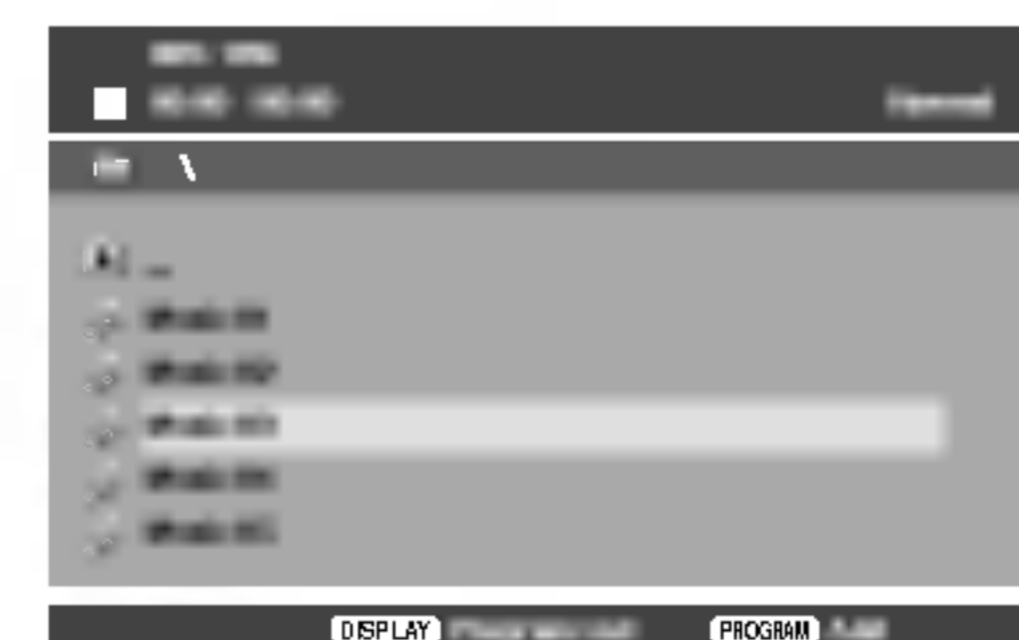
### CD-G discs

Once you insert an audio CD a menu appears on the TV screen. Press ▲ / ▼ to select a track then press PLAY or ENTER to playback starts. To display the CD-G menu during playback, press STOP twice.




### MP3 / WMA

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



### TIPS

- If you are in a file list on the MUSIC menu and want to return to the Folder list, use the ▲ / ▼ to highlight  and press PLAY or ENTER.
- Press DVD MENU to move to the next page. Press TITLE to move to the previous page.
- On a CD with MP3/WMA and JPEG you can switch MP3/WMA and JPEG. Press ▲ / ▼ to select a folder, and press ENTER to see the folder contents.

### 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
- If you record MP3 / WMA files using software that cannot create a file system (eg. Direct-CD) it is impossible to playback 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 / ? \* : “ < > | etc.
- The total number of files on the disc should be less than 648.

This DVD player requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions (see above) to ensure compatible playback.

**Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.**

## Playing an Audio CD or MP3/WMA Disc (continued)

### Audio CD and MP3 / WMA Disc Features

#### Pause **CD** **MP3** **WMA** **CD-G**

1. Press PAUSE/STEP during playback.
2. To return to playback, press PLAY, ENTER or press PAUSE/STEP again.

#### Moving to another Track **CD** **MP3** **WMA** **CD-G**

1. Press SKIP (◀◀ or ▶▶) briefly during playback to go to the next track or to return to the beginning of the current track.
2. Press SKIP ◀◀ twice briefly to go back to the previous track.
3. You can play any track by inputting its number.

#### Random **CD** **MP3** **WMA** **CD-G**

1. Press RANDOM during playback. Random Playback begins immediately and RANDOM appears on the menu screen.
2. To return to normal playback, press RANDOM repeatedly until Normal appears on the menu screen.

#### **TIP**

By pressing SKIP ▶▶ during random playback, the unit selects another track and resumes random playback.

#### Repeat Track/All/Normal **CD** **MP3** **WMA** **CD-G**

You can play a track/all on a disc.

1. Press REPEAT when playing a disc. The repeat icon appears.
2. Press REPEAT to select a desired repeat mode.
  - Track: repeats the current track
  - All: repeats all the tracks on a disc.
  - Normal: does not play repeatedly.

#### **NOTE**

If you press SKIP (▶▶) once during Repeat Track playback, the repeat playback cancels.

#### Repeat A-B **CD** **MP3** **WMA**

1. To repeat a sequence during disc playback press A-B at your chosen starting point. The Repeat icon and “A” appear on the menu screen.
2. Press A-B again at your chosen end point. The Repeat icon and “A B” appear on the menu screen, and the sequence begins to play repeatedly.
3. To exit the sequence and return to normal play, press A-B again.

#### Search **CD** **MP3** **WMA**


1. Press SCAN (◀◀ or ▶▶) during playback.
2. Press SCAN (◀◀ or ▶▶) repeatedly to select the required speed. 2X, 4X or 8X
3. To exit Search mode, press PLAY.

## Viewing a JPEG Disc

Using this DVD Player you can view discs with JPEG files.

1. Insert a disc and close the tray.  
The PHOTO menu appears on the TV screen.



2. Press ▲ / ▼ to select a folder, and press ENTER or PLAY.  
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 ▲ / ▼ buttons on the remote to highlight  and press ENTER or PLAY.
3. If you want to view a particular file, press ▲ / ▼ to highlight a file and press ENTER or PLAY. Viewing the file proceeding starts.  
While viewing a picture, you can press STOP to move to the previous menu (PHOTO menu).

### TIPS

- Press DVD MENU to move to the next page.  
Press TITLE to move to the previous page.
- On a CD with MP3/WMA and JPEG you can switch MP3/WMA and JPEG.  
Press ▲ / ▼ to select a folder, and press ENTER to see the folder contents.

### Moving to another File **JPEG**

Press SKIP (◀◀ or ▶▶) once while viewing a picture to advance to the next or previous file.

### To rotate picture

Press ◀ / ▶ during showing a picture to rotate the picture clockwise or counter clockwise.

### Still Picture **JPEG**

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

### Zoom **JPEG**

Use zoom to enlarge the video image.

1. Press ZOOM during playback to activate the Zoom function.
2. Each press of the ZOOM button changes the screen in the sequence: 100% → 150% → 200% → 100%
3. Use the ◀ ▶ ▲ ▼ buttons to move through the zoomed picture.
4. To resume normal playback, press CLEAR or press ZOOM repeatedly to select the 100%.

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

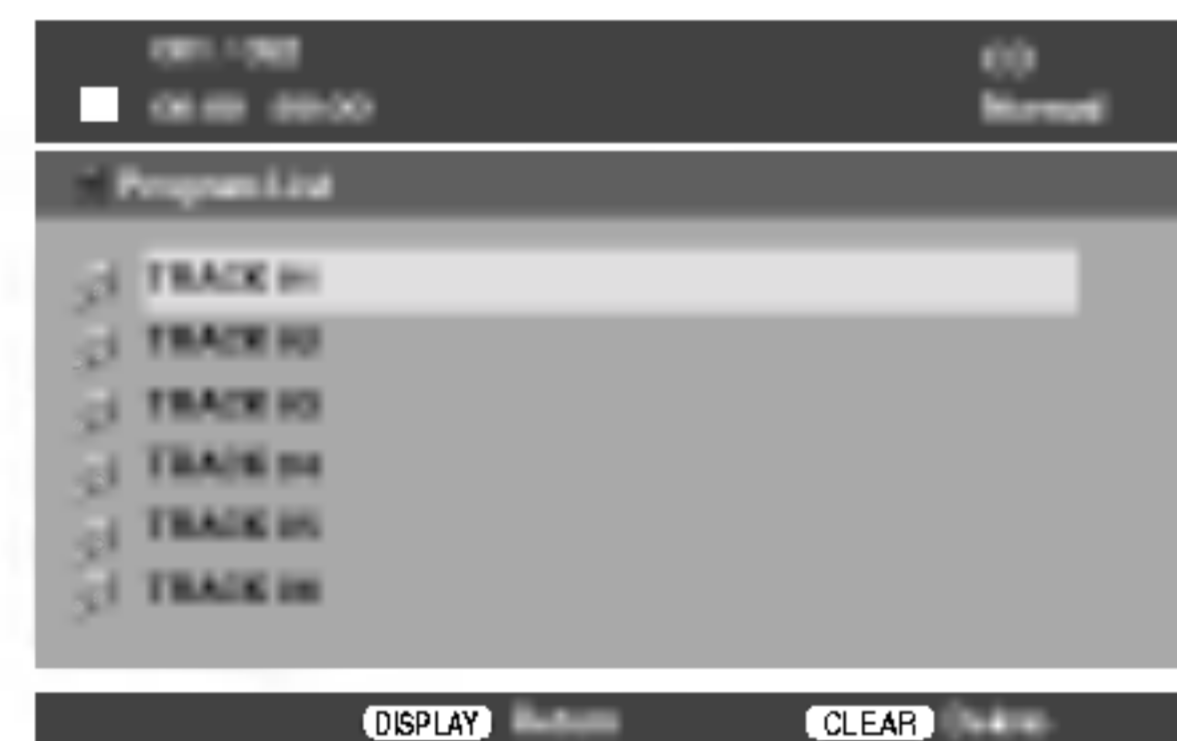
- Depending upon the size and number of JPEG files, it could take a long time for the DVD player to read the disc's contents. If you don't see an on-screen display after several minutes, some of the files may be too large — reduce the resolution of the JPEG files to less than 2M pixels as 2760 x 2048 pixels and burn another disc.
- The total number of files and folders on the disc should be less than 648.
- 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.

## Programmed Playback **CD** **MP3** **WMA**

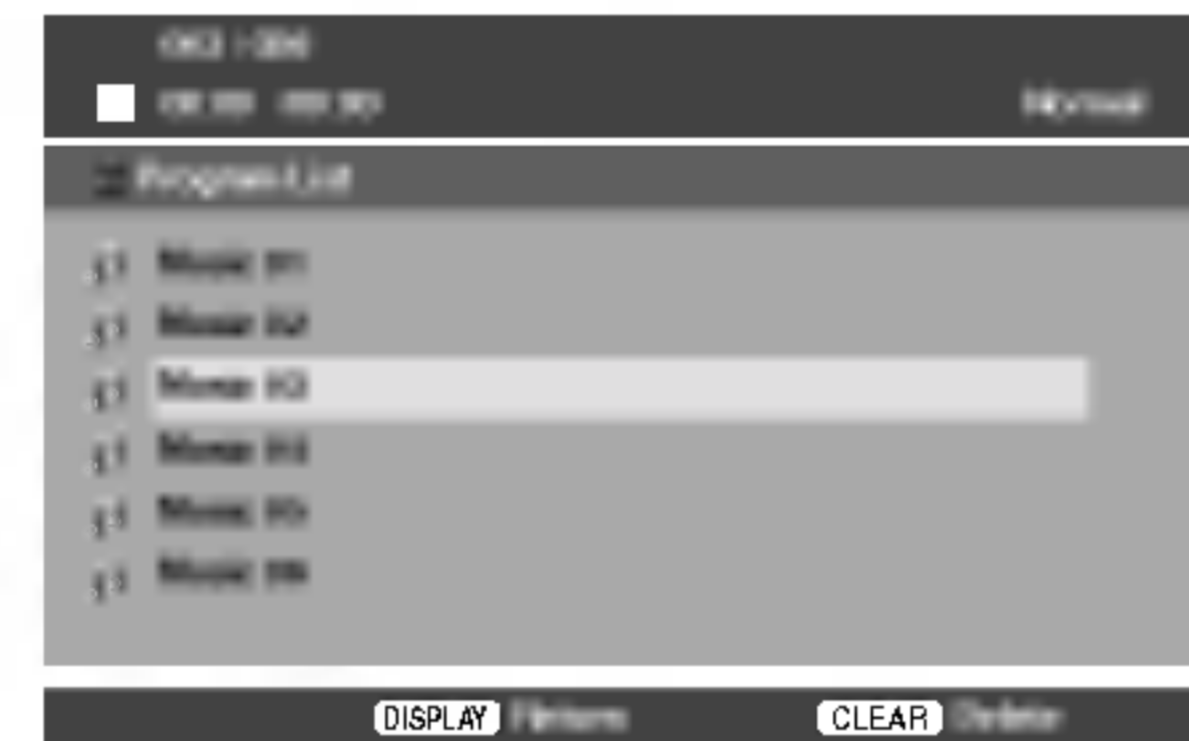
The program function enables you to store your favorite tracks from any disc in the player memory.

A program can contain 30 tracks (Audio CD, MP3/WMA).

1. Insert a disc. (Audio CD, MP3 or WMA.)
2. Press ▲ / ▼ to select the desired file.
3. Press PROGRAM during playback or in the stop mode.  
Repeat press PROGRAM to place additional tracks on the program list.
4. Press DISPLAY. Program List menu appear.  
Press ▲ / ▼ to select the track you want to start playing.  
Press DVD MENU to move to the next page.  
Press TITLE to move to the previous page.



Audio CD Menu



MP3/WMA Menu

5. Press PLAY or ENTER to start.
6. To resume normal playback from programmed playback.  
Press DISPLAY then select a track of list and then press PLAY or ENTER.

### **NOTE**

While CD-G disc is inserted, editing(add or erase tracks) program list is only when the CD-G menu appears on the TV screen.

### **Erasing a Track from program list**

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

**For details on each operation item, refer to relevant page.**



## Initial Settings

By using the Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see pages 17 to 22.

### To display and exit the Menu:

Press **SETUP** to display the menu. A second press of **SETUP** will take you back to initial screen.

### To go to the next level:

Press **▶** on the remote control.

### To go back to the previous level:

Press **◀** on the remote control.

## General Operation

1. Press **SETUP**. The Setup menu appears.
2. Use **◀ / ▶** to select the desired option then press **▼** or **ENTER** to move to the second level. The screen shows the current setting for the selected item, as well as alternate setting(s).
3. Use **▲ / ▼** to select the second desired option then press **▶** to move to the third level.
4. Use **▲ / ▼** to select the desired setting then press **ENTER** to confirm your selection. Some items require additional steps.
5. Press **SETUP**, **RETURN** or **PLAY** to exit the Setup menu.

### NOTE

If a CD-G disc is inserted, **SETUP** operation is available only when the CD-G menu on the TV screen.

## LANGUAGE



### Menu Language

Select a language for the Setup menu and on-screen display.

### Disc Audio / Subtitle / Menu **DVD**

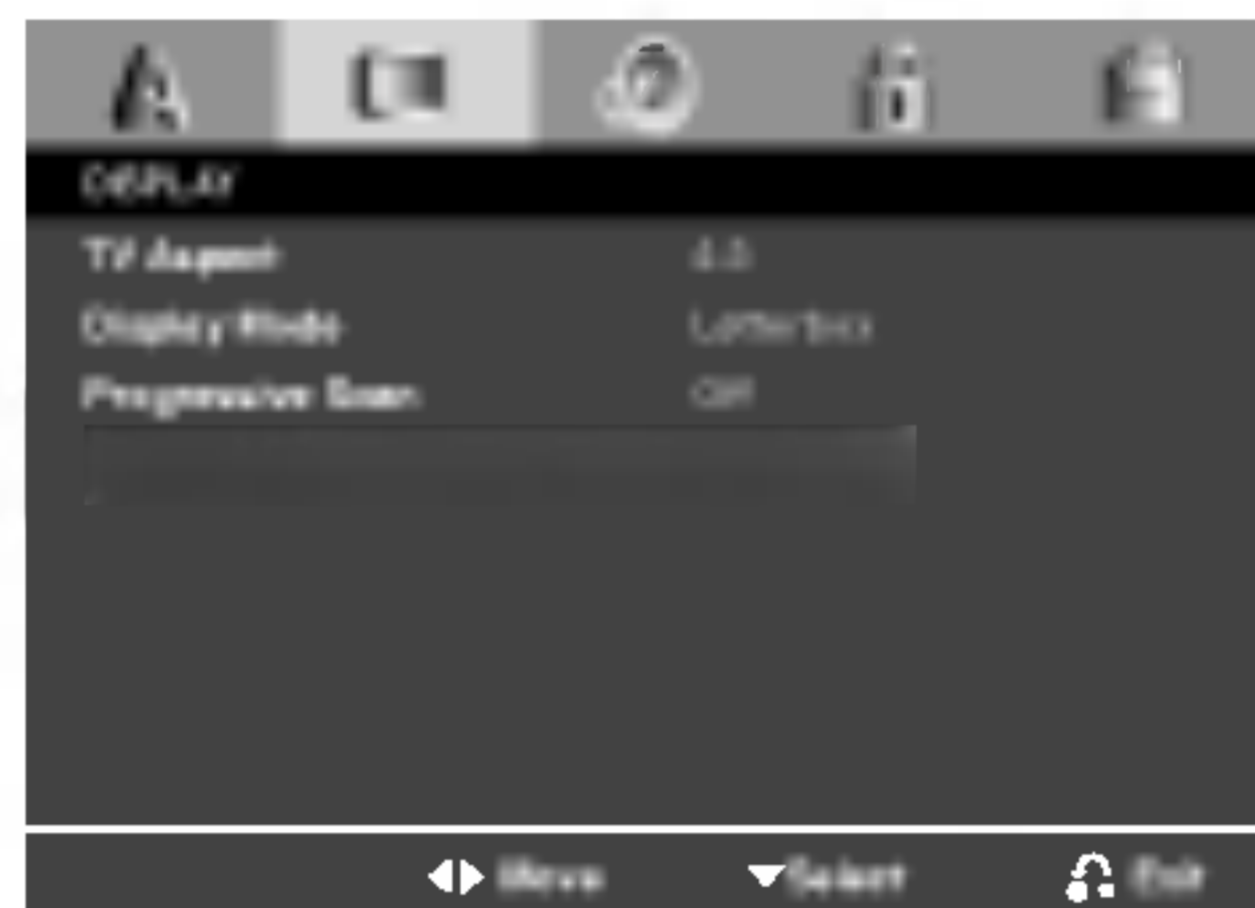
Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu.

**Original:** Refers to the original language in which the disc was recorded.

**Other:** To select another language, press number buttons then Press **ENTER** to enter the corresponding 4-digit number according to the language code list in the reference chapter. If you enter the wrong language code, press **CLEAR**.

## Initial Settings (continued)

### DISPLAY



#### TV Aspect **DVD**

**4:3:** Select when a standard 4:3 TV is connected.

**16:9:** Select when a 16:9 wide TV is connected.

#### Display Mode **DVD**

Display Mode setting works only when the TV Aspect mode is set to "4:3".

**LetterBox:** Displays a wide picture with bands on the upper and lower portions of the screen.

**Panscan:** Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

### Progressive Scan

Progressive Scan Video provides the highest quality pictures with less flickering. If you are using the Component Video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to On. Press ENTER to confirm your selection. The confirm menu will appear.

#### Caution

If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD Player. If you set Progressive Scan to On in error, you must reset the unit.

- 1) Press ►. Select "Off" using the ▲ / ▼ buttons.  
The Setup menu appears.
- 2) Press STOP and hold it for five seconds before releasing it. The video output will be restored to the standard setting and a picture will once again be visible on a conventional analog TV or monitor.

## Initial Settings (continued)

### 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.



#### Dolby Digital / DTS / MPEG **DVD**

**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 (for Dolby Digital / MPEG):** Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.

**Off (for DTS):** If you select "Off", the DTS signal is not output through the DIGITAL OUT jack.

#### Sample Freq. (Frequency) **DVD**

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.

#### DRC (Dynamic Range Control) **DVD**

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.

## Initial Settings (continued)

### LOCK (Parental Control)



#### Rating **DVD**

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.

**Rating 1-8:** Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

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

#### **NOTE**

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.

1. Select Rating on the LOCK menu then press ►.
2. Select a rating from 1 to 8 using the ▲ / ▼ buttons and press ENTER. The password window will appear.
3. **If you have not entered password yet:**  
When the “New Password” section is highlighted, enter a 4-digit password using the numbered buttons then press ENTER. Enter the 4-digit security password again to verify when the “Confirm Password” section is highlighted. The “OK” will be highlighted.  
**If you have entered password already:**  
Enter a 4-digit password you have entered using the numbered buttons. The “OK” will be highlighted.
4. Press ENTER to confirm your rating selection, then press SETUP to exit the menu.

#### **TIPS**

- If you make a mistake before pressing ENTER in each section, press CLEAR to enter again or ◀ repeatedly to delete password numbers one by one then correct it.
- If you enter the wrong password, you can not proceed to the next step.

## Initial Settings (continued)

### Password (Security Code)

You can create or change password.

1. Select Password on the LOCK menu then press ►. The “Change” is highlighted
2. Press ENTER then the password window will appear.
3. **To make a new password:**  
When the “New Password” section is highlighted, enter a 4-digit password using the numbered buttons then press ENTER. Enter the 4-digit password again to verify when the “Confirm Password” section is highlighted, then. The “OK” will be highlighted.  
**To change the password:**  
When the “Old Password” section is highlighted, enter the 4-digit password you have created then press ENTER. The “New Password” section will be highlighted. Enter a new 4-digit password using the numbered buttons then press ENTER. Enter the new 4-digit security password again to verify when the “Confirm Password” section is highlighted. The “OK” will be highlighted.
4. Press SETUP to exit the menu.

### If you forget your Security Code

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

1. Remove any disc from the unit and close the disc tray.  
See that “nodISC” is displayed on the display window.
2. Press SETUP and setup menu appears on the TV screen.  
Use the numbered buttons to enter the 6-digit number “210499”.  
See that “P-CLr” is displayed on the display window.
3. Enter a new password as described above.

### Area Code **DVD**

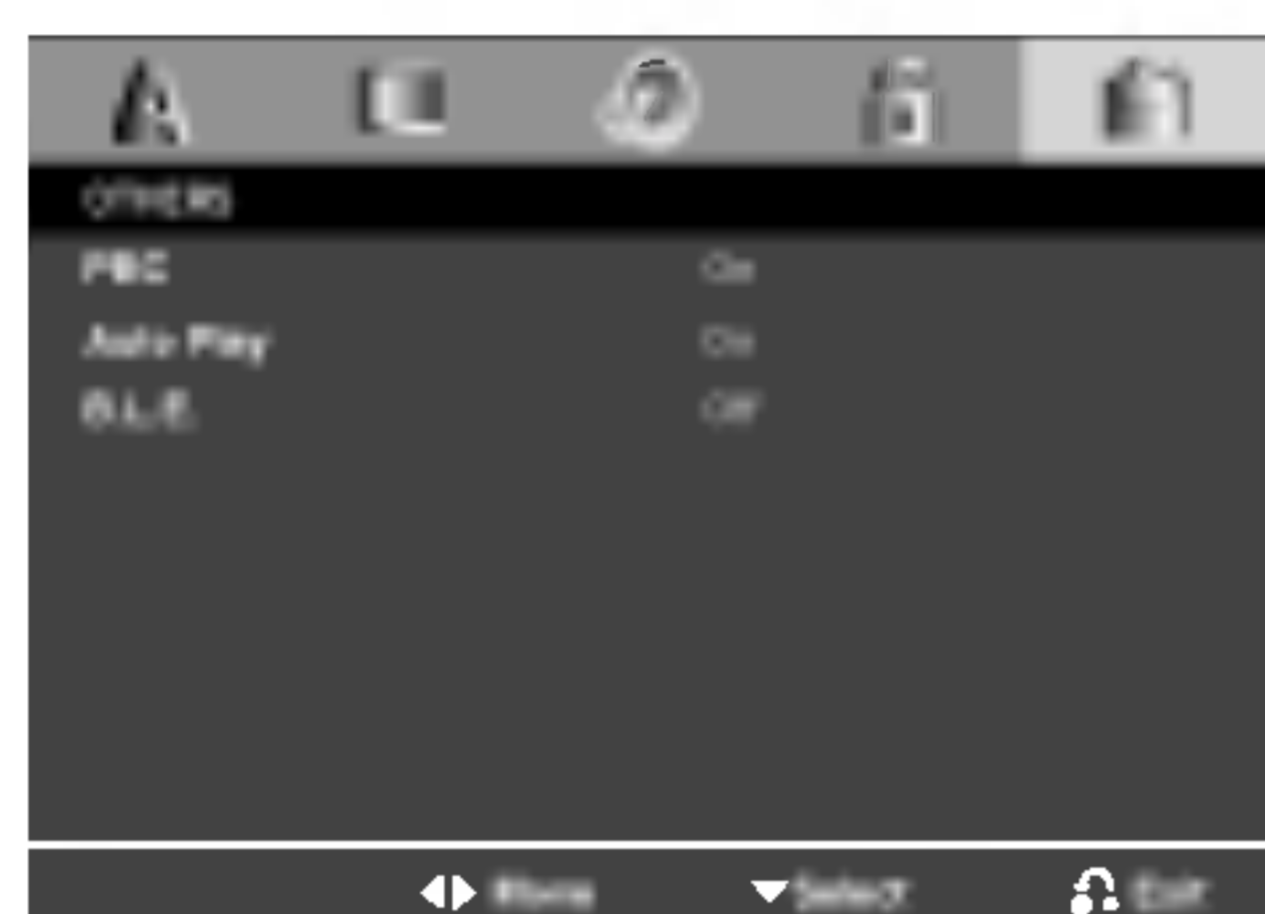
Enter the code of the area whose standards were used to rate the DVD video disc, based on the list in the reference chapter.

1. Select “Area Code” on the LOCK menu then press ►.
2. Select the first character using ▲ / ▼ buttons.
3. Shift the cursor using ► button and select the second character using ▲ / ▼ buttons then press ENTER, the password window will appear
4. Press ENTER, the password window will appear.
5. **If you have not entered password yet:**  
When the “New Password” section is highlighted, enter a 4-digit password using the numbered buttons then press ENTER. Enter the 4-digit security password again to verify when the “Confirm Password” section is highlighted. The “OK” will be highlighted.  
**If you have entered password already:**  
Enter a 4-digit password you have entered using the numbered buttons. The “OK” will be highlighted.
6. Press ENTER to confirm your Area Code selection, then press SETUP to exit the menu.

## Initial Settings (continued)

### OTHERS

The PBC, Auto Play and B.L.E. settings can be changed.



### PBC **VCD**

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.

#### NOTES

- **PBC: Playback Control (Video CD only)**  
Playback control is available for Video CD (VCD) version 2.0 disc formats. PBC allows you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc. Video CDs not equipped with PBC (Version 1.1) operate in the same way as audio CDs.
- Use the number buttons to select the track you want to view and press RETURN to return to the menu screen. Menu settings and operating procedures may differ. Follow the instructions on the each menu screen. You also may set PBC to Off.

### Auto Play **DVD**

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.

**On:** Auto Play function is activated.

**Off:** Auto Play function is not activated.

#### NOTE

The Auto Play function may not work for some DVDs.

### B.L.E. (Black Level Expansion)

To select the black level of playback pictures. Set your preference and monitor's ability.

**On:** Expanded grey scale. (0 IRE cut off)

**Off:** Standard grey scale. (7.5 IRE cut off)

## Additional Information

### **COPYRIGHTS:**

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission.

This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs on a VCR, picture noise will appear.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

### **Controlling other TVs with the remote control**

You can control the sound level, input source, and power switch of your LG TV with the supplied remote control.

You can control the sound level, input source, and power switch of non-LG TVs as well. If your TV is listed in the table below, set the appropriate manufacturer code.

1. While holding down TV POWER button, press the number buttons to select the manufacturer code for your TV (see the table below).
2. Release TV POWER button.

### **Code numbers of controllable TVs**

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code Number
LG / GoldStar	1 (Default), 2
Zenith	1, 3, 4
Samsung	6, 7
Sony	8, 9
Hitachi	4

### **NOTES**

- Depending on your TV, some or all buttons may not function on the TV, even after entering the correct manufacturer code.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number you have set may be reset to the default setting. Set the appropriate code number again.

## Using the Karaoke Function

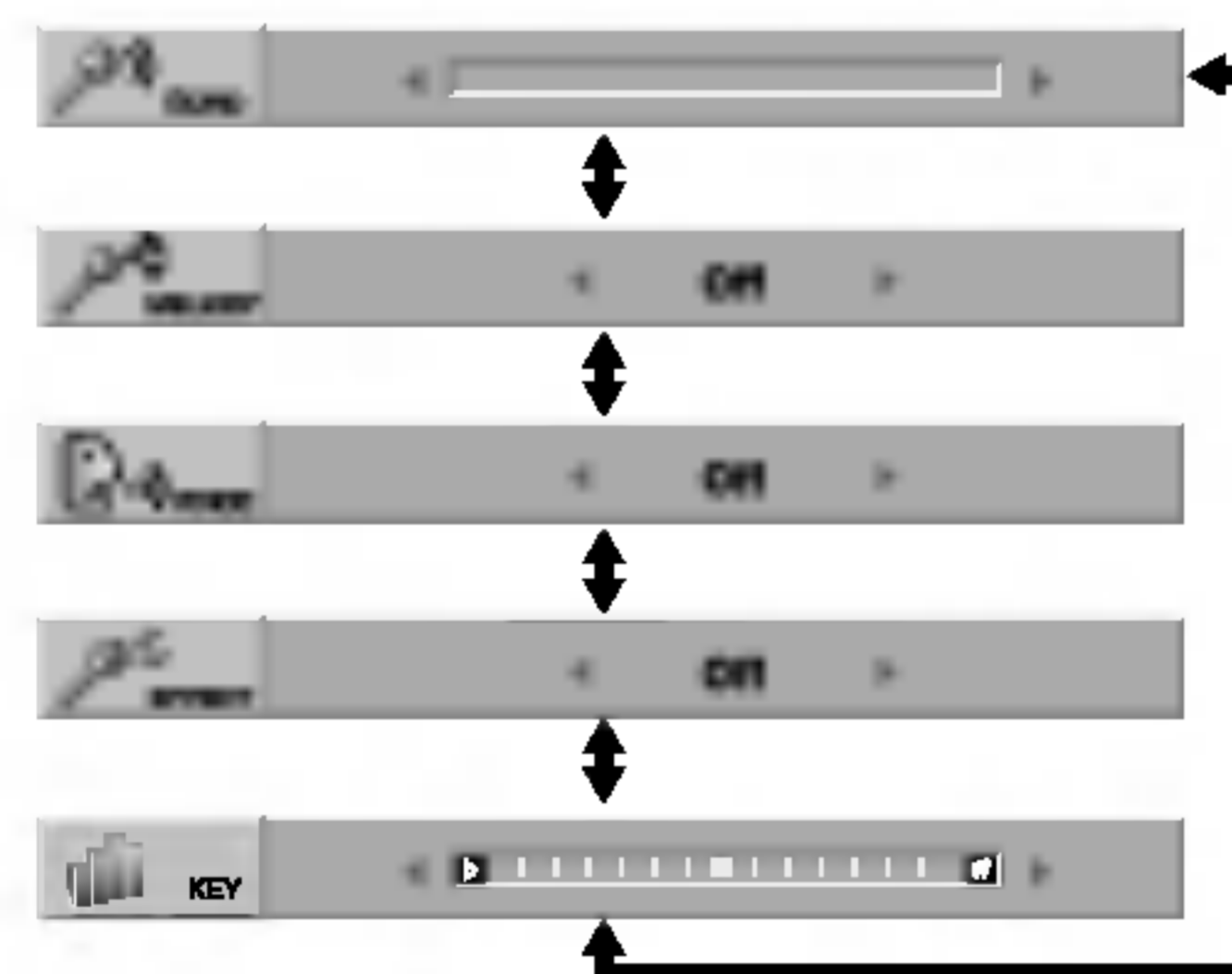
### Using the Karaoke Function

1. Load a karaoke disc.
2. Set the MIC VOL control to the minimum level to prevent acoustic feedback (e.g. a loud howling sound) before connecting the microphone.
3. Connect a microphone to MIC socket.

#### NOTES:

If a microphone is not connected the karaoke menu will not appear.

4. Press PLAY to start playback.
5. Adjust MIC VOL control and then sing a song.  
If you want to set KARAOKE option follow steps 6-8.
6. Press KARAOKE during playback.  
KARAOKE menu appears.
7. Use ▲/▼ to select an desired item (ECHO, MELODY, VOICE, EFFECT or KEY).  
The display changes as shown in the chart below.



8. Use ◀▶ to adjust value of the item selected.

**ECHO:** You can adjust the echo volume by pressing the ◀▶ buttons.

**MELODY:** If you wish to sing only to the backing band or orchestra unaccompanied by a vocal guide melody, set MELODY to Off.

Voice Select	Output	
	Left speaker	Right speaker
V1	Voice1	Voice1
V2	Voice2	Voice2
V1+V2	Voice1	Voice2
Off	None voice	None voice

**EFFECT:** You can use Special Effects. Each time ◀▶ is pressed, the Special Effect changes as shown below.

Off → HARMONY → FLANGE → CHORUS

**KEY:** You can change the key by pressing the ◀▶ buttons.

#### NOTES:

Controlling the key when DVD player is connected to amplifier (receiver) with digital audio connection, may cause mute the sound of the front left/right speakers connected with amplifier (receiver).

In that case, you must change the sound mode of the amplifier (receiver) for the output of the speakers.

9. Press KARAOKE to exit the KARAOKE menu.

#### NOTES:

- The microphone may not be available during special playback. (ex. slow)
- The karaoke feature functions only with karaoke-compatible discs.
- The VOICE and MELODY menus may not be available on some karaoke discs.
- For more details, refer to the information supplied with the disc.
- There is no microphone's sound output during a disc encoded with DTS is playing back.



## Troubleshooting

Symptom	Possible Cause	Correction
No power.	<ul style="list-style-type: none"> <li>The power cord is disconnected.</li> </ul>	<ul style="list-style-type: none"> <li>Plug the power cord into the wall outlet securely.</li> </ul>
The power is on, but the DVD player does not work.	<ul style="list-style-type: none"> <li>No disc is inserted.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a disc. (Check that the DVD or audio CD indicator in the display window is lit.)</li> </ul>
No picture.	<ul style="list-style-type: none"> <li>The TV is not set to receive DVD signal output.</li> </ul>	<ul style="list-style-type: none"> <li>Select the appropriate video input mode on the TV.</li> </ul>
	<ul style="list-style-type: none"> <li>The video cable is not connected securely.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the video cable securely.</li> </ul>
No sound.	<ul style="list-style-type: none"> <li>The equipment connected with the audio cable is not set to receive DVD signal output.</li> </ul>	<ul style="list-style-type: none"> <li>Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player.</li> </ul>
	<ul style="list-style-type: none"> <li>The power of the equipment connected with the audio cable is turned off.</li> </ul>	<ul style="list-style-type: none"> <li>Turn on the equipment connected with the audio cable.</li> </ul>
	<ul style="list-style-type: none"> <li>The AUDIO options are set to the wrong position.</li> </ul>	<ul style="list-style-type: none"> <li>Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing POWER.</li> </ul>
The DVD player does not start playback.	<ul style="list-style-type: none"> <li>An unplayable disc is inserted.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a playable disc. (Check the disc type, color system, and regional code.)</li> </ul>
	<ul style="list-style-type: none"> <li>The rating level is set.</li> </ul>	<ul style="list-style-type: none"> <li>Cancel the rating function or change the rating level.</li> </ul>
The remote control does not work properly.	<ul style="list-style-type: none"> <li>The remote control is not pointed at the remote sensor on the DVD player.</li> </ul>	<ul style="list-style-type: none"> <li>Point the remote control at the remote sensor of the DVD player.</li> </ul>
	<ul style="list-style-type: none"> <li>The remote control is too far from the DVD player.</li> </ul>	<ul style="list-style-type: none"> <li>Operate the remote control closer to the DVD player.</li> </ul>

## 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	6869	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	6678	Hebrew	7387	Nepali	7869	Telugu	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
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	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6865	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Estonian	6984	Latin	7665	Shona	8378	Yoruba	8979
Faroese	7079	Latvian, Lettish	7686	Sindhi	8368	Zulu	9085

## Area Codes

Choose an area code from this list.

Area	Code	Area	Code	Area	Code	Area	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	BO	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

## Specifications

### General

**Power requirements:** AC 110-240 V , 50/60 Hz

**Power consumption:** 8W

**Dimensions (Approx.):**

DZ9711E: 430 x 35 x 242 mm (W x H x D) without foot

**Weight (Approx.):** 1.9 kg

**Operating temperature:**

5 °C to 35 °C (41 °F to 95 °F)

**Operating humidity:** 5 % to 90 %

### Outputs

**VIDEO OUT:**

1.0 V (p-p), 75 Ω, sync negative, RCA jack x 1

**COMPONENT VIDEO OUT:**

(Y) 1.0 V (p-p), 75 Ω, negative sync, RCA jack x 1  
(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2

**AUDIO OUT:**

2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R) x 1

**DIGITAL OUT (COAXIAL):**

0.5 V (p-p), 75 Ω, RCA jack x 1

### System

**Laser:**

Semiconductor laser, wavelength 650 nm

**Signal system:** NTSC

**Frequency response:**

DVD (PCM 96 kHz): 8 Hz to 44 kHz

DVD (PCM 48 kHz): 8 Hz to 22 kHz

CD: 8 Hz to 20 kHz

**Signal-to-noise ratio:**

More than 100 dB (ANALOG OUT connectors only)

**Harmonic distortion:** Less than 0.02%

**Dynamic range:**

More than 95 dB (DVD/CD)

**Accessories:**

Video cable (1), Audio cable (1), Remote control (1), Batteries (2)