



# DVD MICRO HI FI SYSTEM

## OWNER'S MANUAL

MODEL : LF-D7350

|LF-D7350A/D/X,  
|LFS-D7350V, LFS-D7350C, LFS-D7350T



Please read this manual carefully before operating your set.  
Retain it for future reference.

Designs and specifications are subject to change without  
notice for improvement.

## Safety Precautions



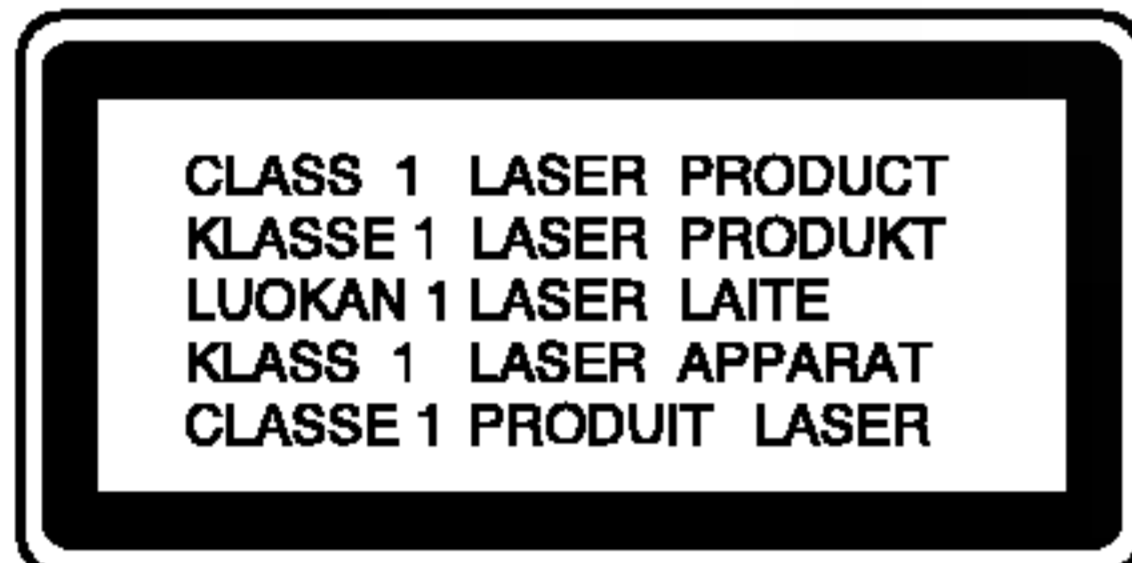
**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**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.



### Notes on copyrights:

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

This product is equipped with copy protection measures developed by Macrovision. Copy protection signals are recorded on some discs. When recording these discs on a VCR, picture noise will appear during playback.

This product incorporates copyright protection technology that is protected by certain U.S. patent claims 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.

**SERIAL NUMBER:** The serial number is found on the back 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. \_\_\_\_\_

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## About the symbols for instructions

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




 Indicates special operating features of this unit.

 Indicates tips and hints for making the task easier.



## Before Use

### 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 can play a DVD±R, DVD±RW, SVCD, and CD-R or CD-RW that contains audio titles, MP3, WMA, JPEG or DivX files.

#### 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). It may result in malfunctions.

#### Notes on DVDs and Video CDs

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

Refer also to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be played on the unit.

#### Regional code of the DVD player and DVDs

This DVD player is designed and manufactured for playback of region “5” 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 “5” or “ALL”. 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.



#### Note on DTS-encoded CDs

When playing DTS-encoded CDs, excessive audio level may be heard from the analog stereo output. To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the unit.

#### Disc-related terms

##### Title (DVD only)

The main film content or accompanying feature content or additional feature content, or music album.

Each title is assigned a title reference number enabling you to locate it easily.

##### Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, chapters may not be recorded.

##### Track (Video CD and audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

##### Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called “Scenes”. Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.

A scene is composed of one or several tracks.

#### Types of video CDs

There are two types of video CDs:

##### Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow 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)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

## Before Use (Cont'd)

### Precautions

#### Handling the unit

##### **When shipping the unit**

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

##### **When setting up the unit**

The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

##### **To keep 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. They will leave marks on the surface.

#### Cleaning the unit

##### **To clean the cabinet**

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, benzene, or thinner, as these might damage the surface of the unit.

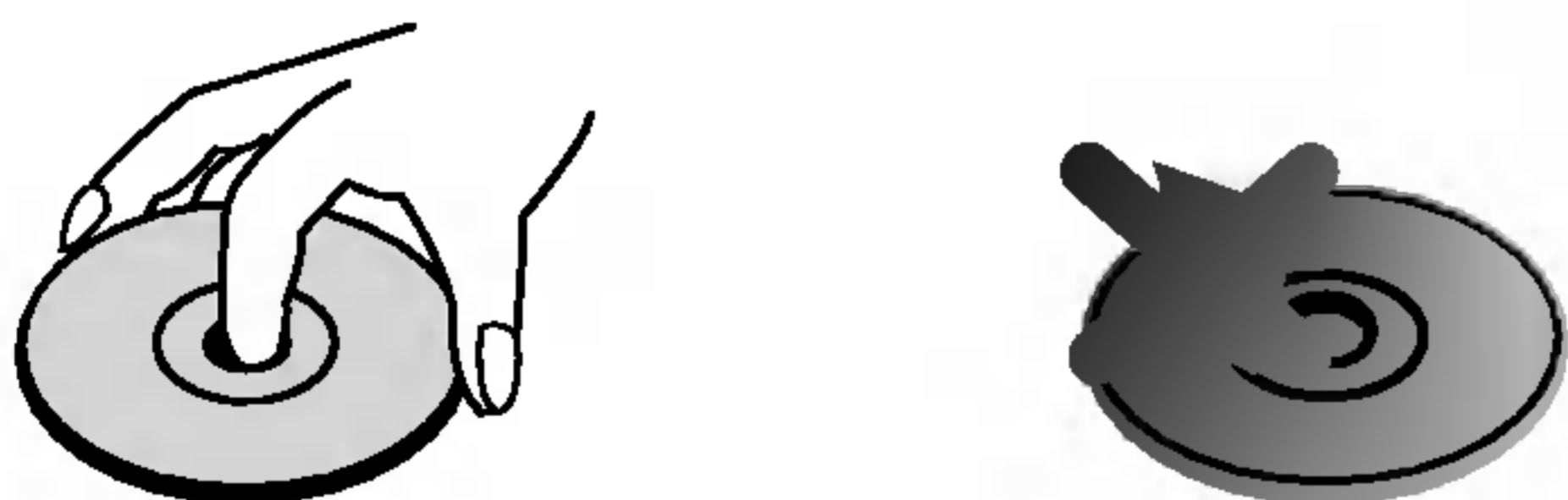
##### **To obtain a clear picture**

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 will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)  
For details, please contact your nearest dealer.

### Notes on Discs

#### Handling discs

Do not touch the playback side of the disc.  
Hold the disc by the edges so that fingerprints will not get on the surface.  
Do not 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, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

#### 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, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

### About Symbols

#### About the 🖐 symbol display

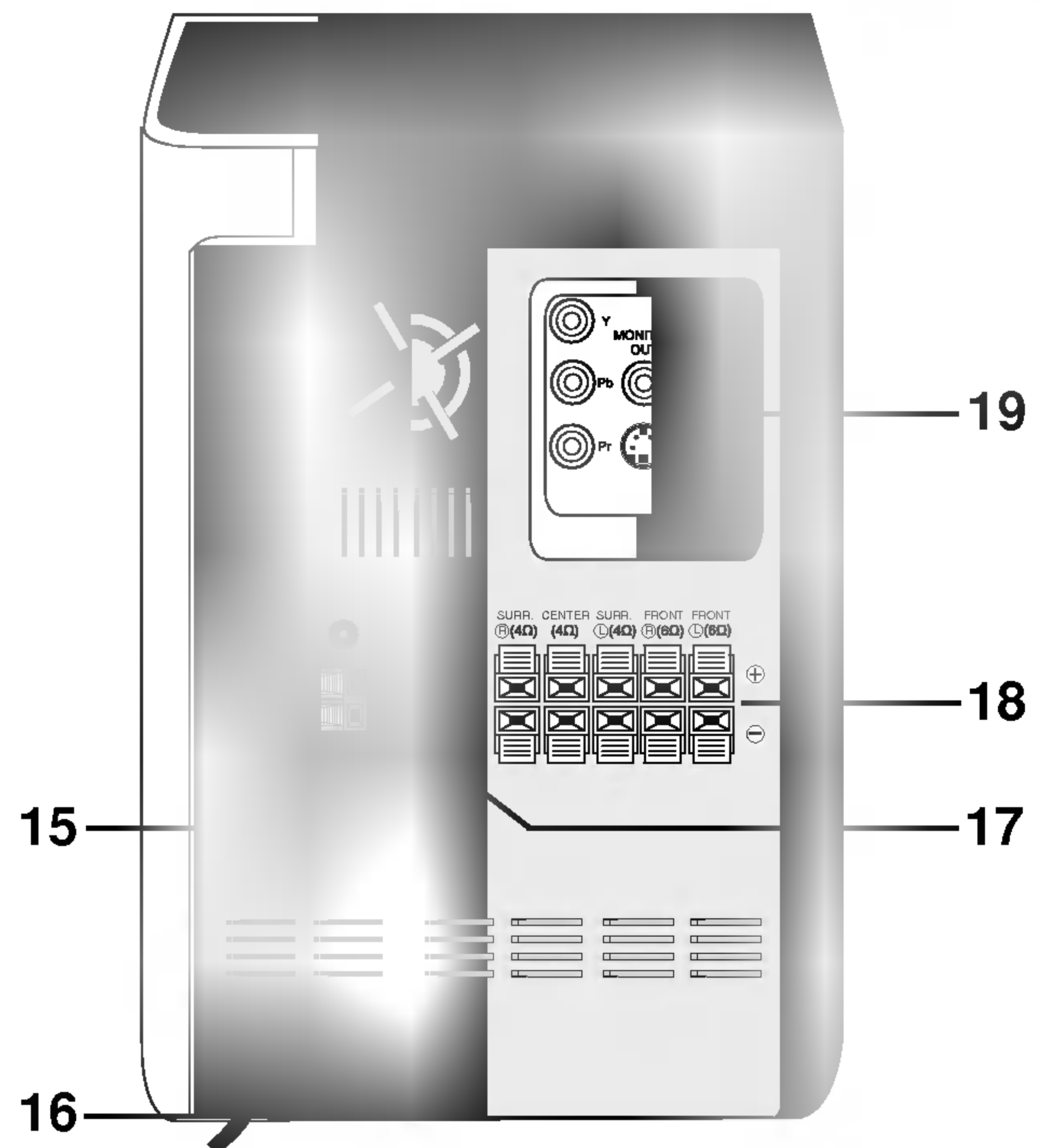
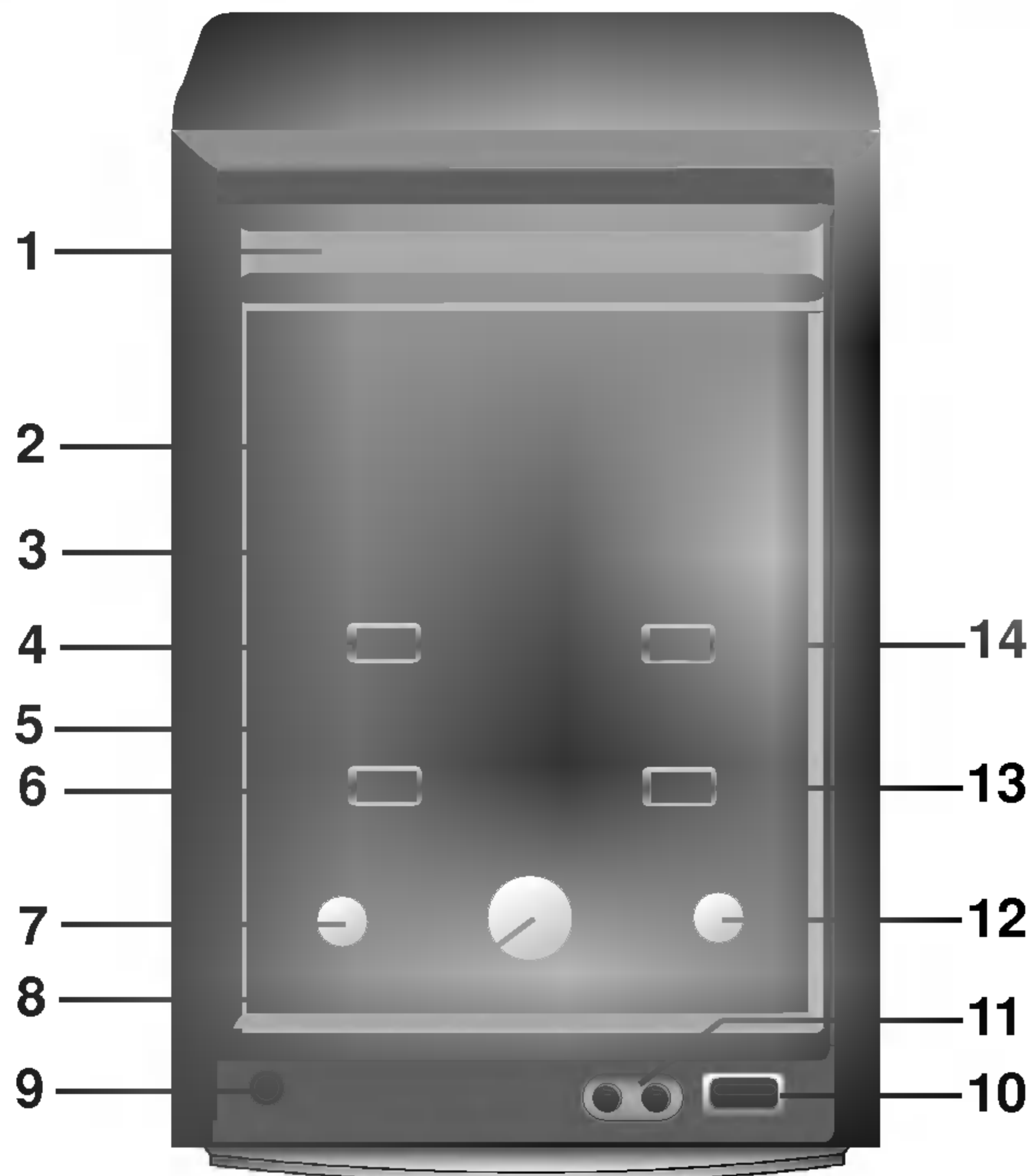
“ 🖐 ” may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

#### About the disc symbols for instructions

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

-  DVD
-  Video CDs
-  Audio CDs
-  MP3 disc
-  WMA disc
-  JPEG disc
-  DivX disc

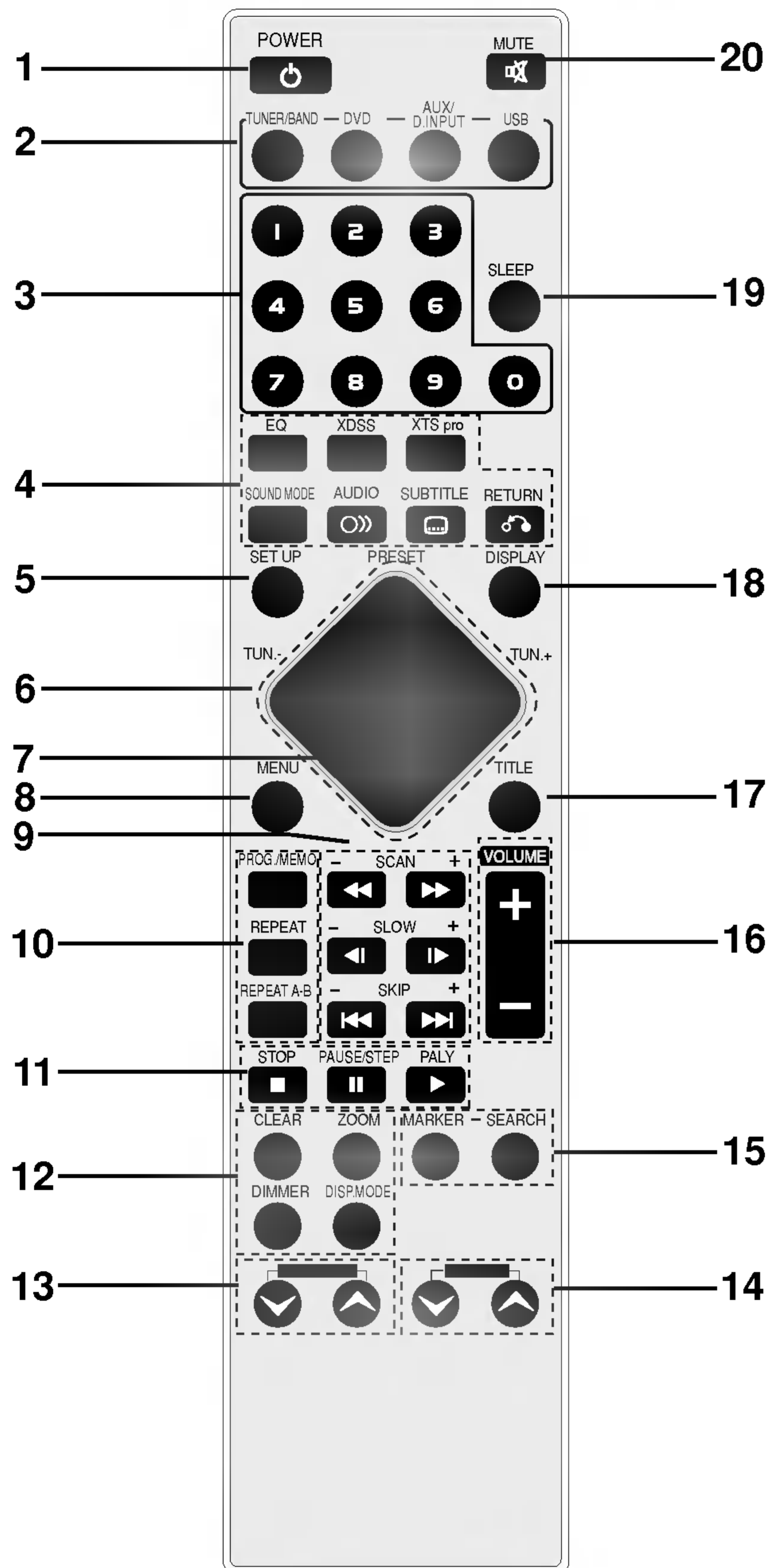
## Front Panel/ Rear Panel



1. CD DOOR
2. DISPLAY WINDOW
3.
  - POWER (⏻) button
  - CLOCK button
  - ⌚ TIMER button
  - RDS button : OPTIONAL
  - SET/CD button
  - MP3 OPT. button
  - MONO/STEREO (MONO/ST.) button
  - ▲ OPEN/CLOSE button
4. SOUND button
5.
  - PLAY (▶) button
  - STOP (■) button
  - TUN. (-/+) buttons
  - CD SKIP (⏮ ⏪ ⏩ ⏭) buttons
6. XTSPRO button
7. FUNCTION (FUNC.) DIAL
8. VOLUME knob

9. HEADPHONE SOCKET (🎧 PHONES) -  $\varnothing$ 3.5mm
10. USB connector
11. MIC JACKS (MIC1, MIC2) -  $\varnothing$ 3.5mm
12. MIC VOLUME KNOB (MIC VOL.)
13. EQUALIZER PATTERN (EQ) button
14. XDSS button
15. ANTENNA Connector
16. POWER CORD
17.
  - SUB WOOFER OUTPUT connector
  - AUXILIARY INPUT (AUX) connector
18. SPEAKER Connector
19.
  - COMPONENT VIDEO OUT (PROGRESSIVE SCAN) (Y Pb Pr) Connector
  - MONITOR OUT Connector
  - S-VIDEO OUT Connector
  - OPTICAL IN Connector

## Remote Control



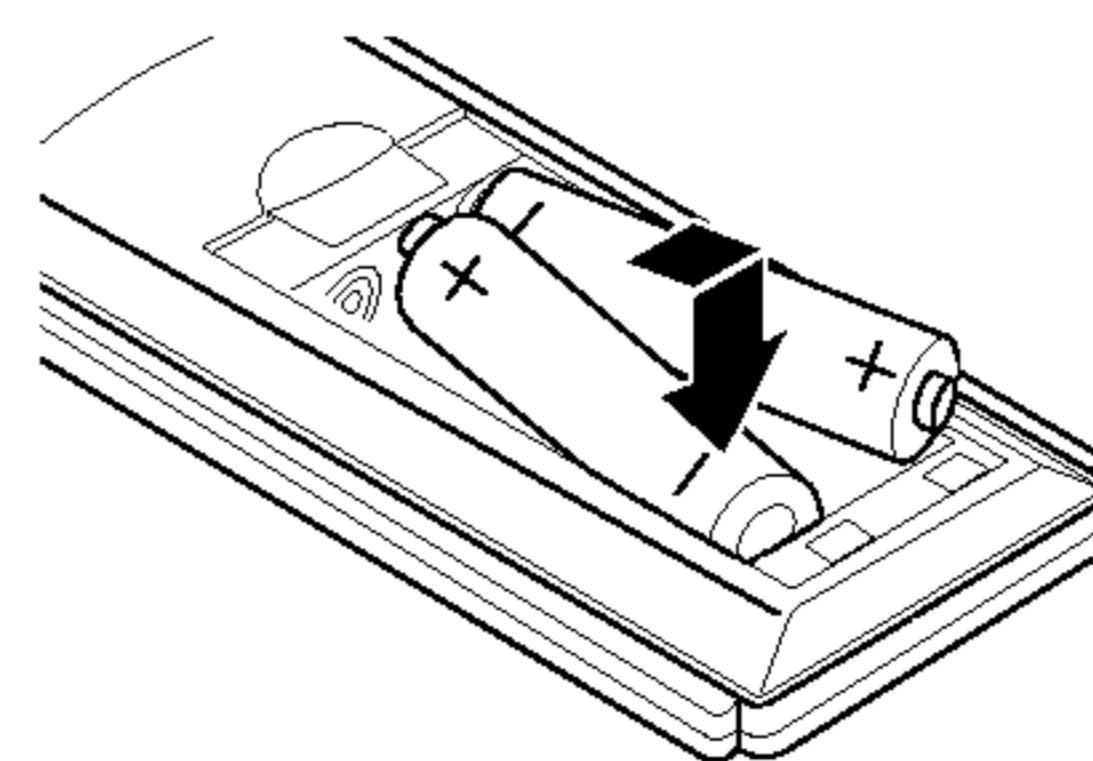
1. POWER button
2. FUNCTION SELECT buttons (TUNER/BAND, DVD, AUX/D.INPUT, USB)
3. NUMERIC buttons (0-9)
4. EQUALIZER (EQ), XDSS, XTS pro, SOUND, AUDIO, SUBTITLE, RETURN buttons
5. SET UP button
6.
  - ARROW buttons (▲ / ▼ / ◀ / ▶)  
(For use in highlighting a selection on a GUI menu screen, TITLE and MENU screen.)
  - PRESET (-/+) buttons
  - TUN. (-/+) buttons
7. SELECT/ENTER button
8. MENU button  
(Use the MENU button to display the menu screen included on DVD video discs.)
9. SCAN (◀◀/▶▶)/ SLOW (◀|/|▶)/ SKIP (◀◀/▶▶) buttons
10. PROG./MEMO, REPEAT, REPEAT A-B buttons
11. STOP (■), PAUSE (||)/ STEP, PLAY (▶) buttons
12. CLEAR/ ZOOM/ DIMMER/ DISP.MODE buttons
13. ECHO VOL. (☺/☹) buttons
14. MIC VOL. (☺/☹) buttons
15. MARKER/ SEARCH buttons
16. VOLUME +/- buttons
17. TITLE button  
(Use the TITLE button to display the title screen included on DVD video discs.)
18. DISPLAY button
19. SLEEP button
20. MUTE button

### Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- **Distance:** About 23 ft (7 m) from the front of the remote sensor
- **Angle:** About 30° in each direction of the front of the remote sensor

### Remote control battery installation



Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with + and - aligned correctly.

### ⚠ Caution

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

## Connections

### Connecting to a TV

- Make one of the following connections, depending on the capabilities of your existing equipment.

#### Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the unit. Use one of the connections described below.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

#### Caution

- Make sure the unit is connected directly to the TV. Select the correct AV input on your TV.
- Do not connect your unit to TV via your VCR. The DVD image could be distorted by the copy protection system.

#### Video connection

Connect the MONITOR OUT jack from the unit to the VIDEO IN jack on the TV using the video cable supplied (V).

#### S-Video connection

Connect the S-VIDEO OUT jack on the unit to the S-VIDEO IN jack on the TV using the S-Video cable (S).

#### Component Video (Color Stream®) connection

Connect the COMPONENT VIDEO (PROGRESSIVE SCAN) jacks from the unit to the corresponding in jacks on the TV using an Y Pb Pr cable (C).

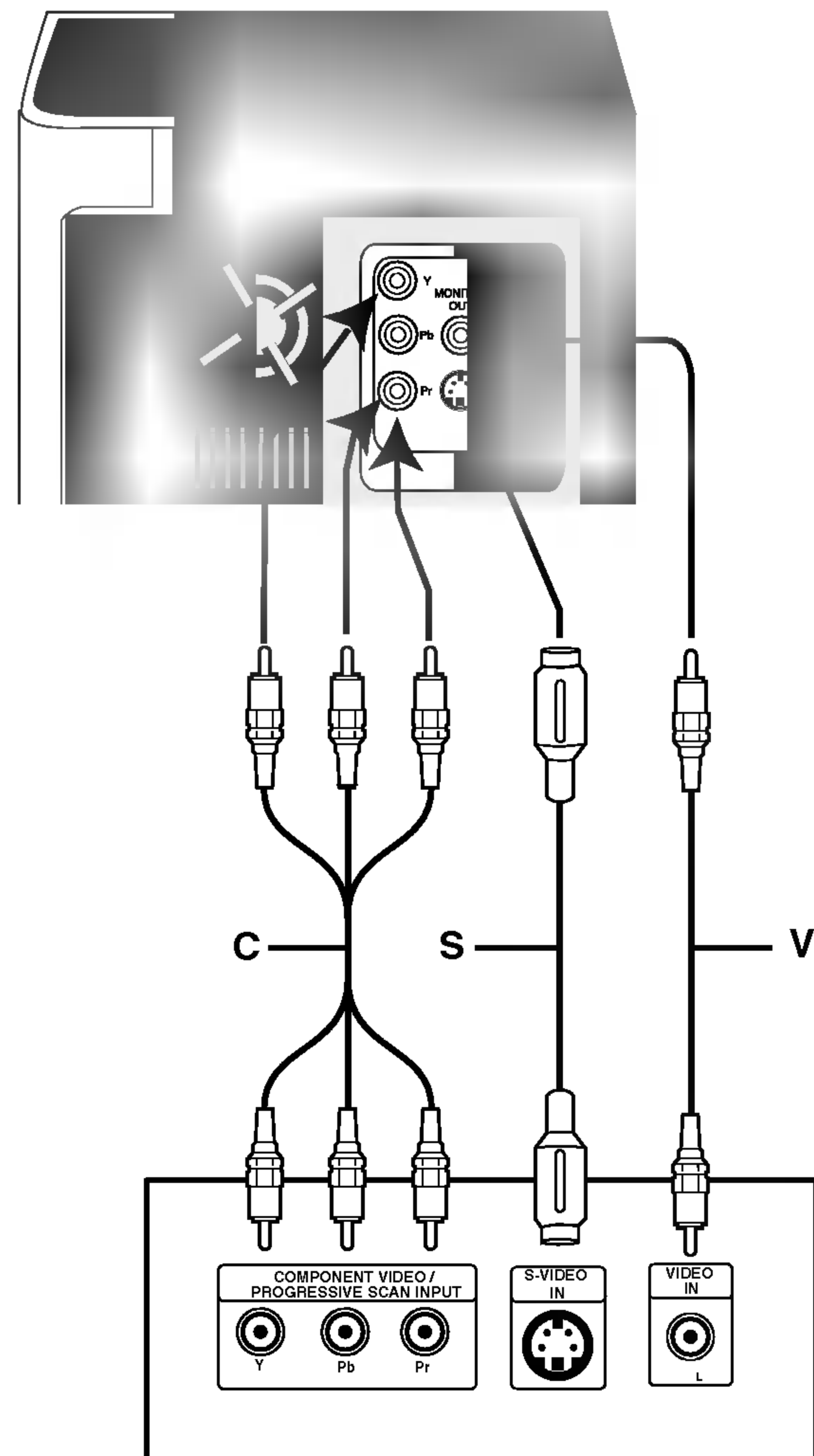
#### Progressive Scan (ColorStream® pro) connection

- If your television is a high-definition or “digital ready” television, you may take advantage of the unit’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 unit.

Connect the COMPONENT VIDEO OUT (PROGRESSIVE SCAN) jacks from the unit to the corresponding in jacks on the TV using an optional Y Pb Pr cable (C).

#### Note

- Set the Progressive to “On” on the Setup menu for progressive signal, see page 19.



Rear of TV

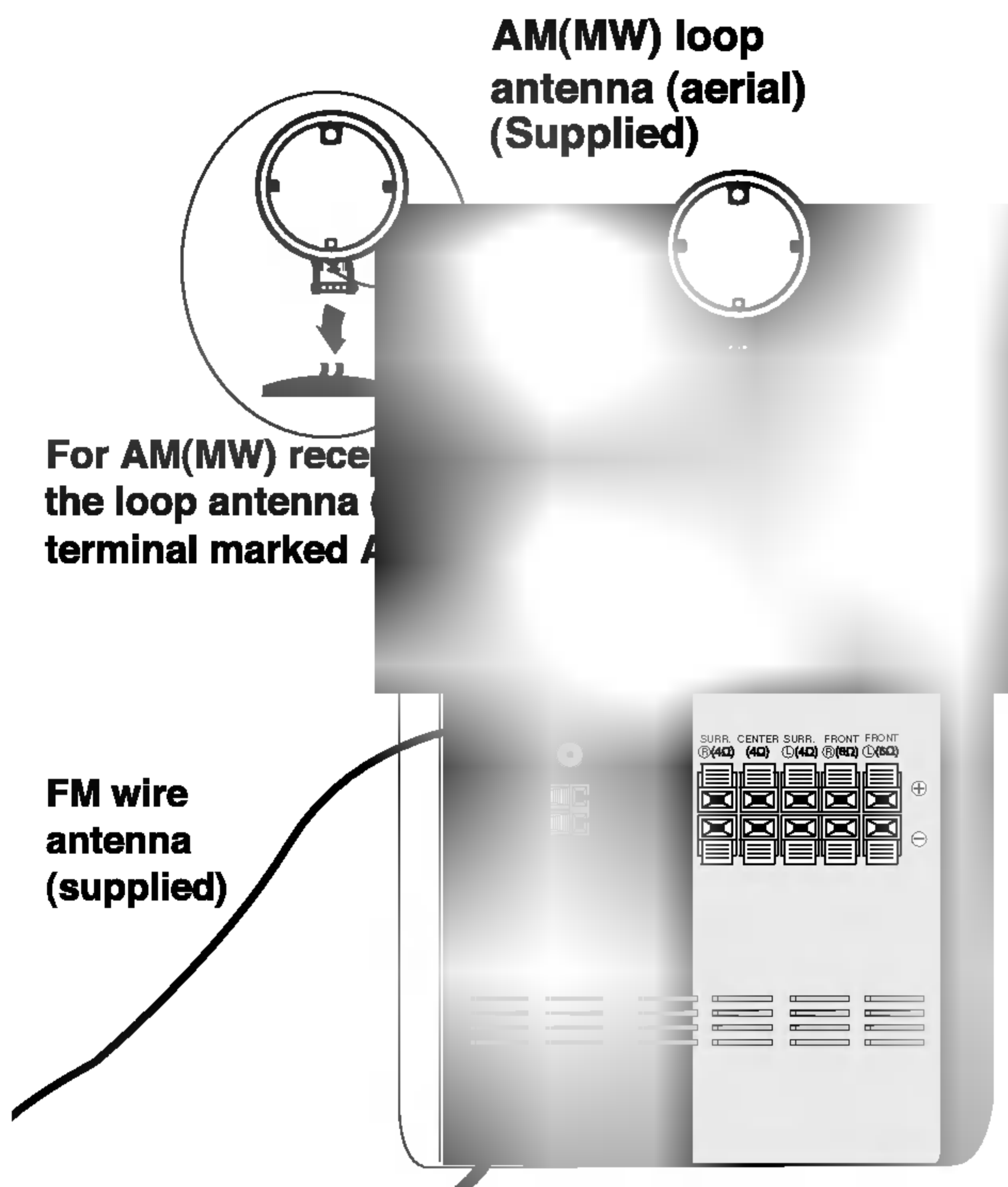


## Connections

### Connecting to Antenna

Connect the supplied FM/AM antennas for listening to the radio.

- Connect the AM loop antenna to the AM antenna connector.
- Connect the FM wire antenna to the FM antenna connector.



For AM(MW) reception, connect the loop antenna to the terminal marked A.

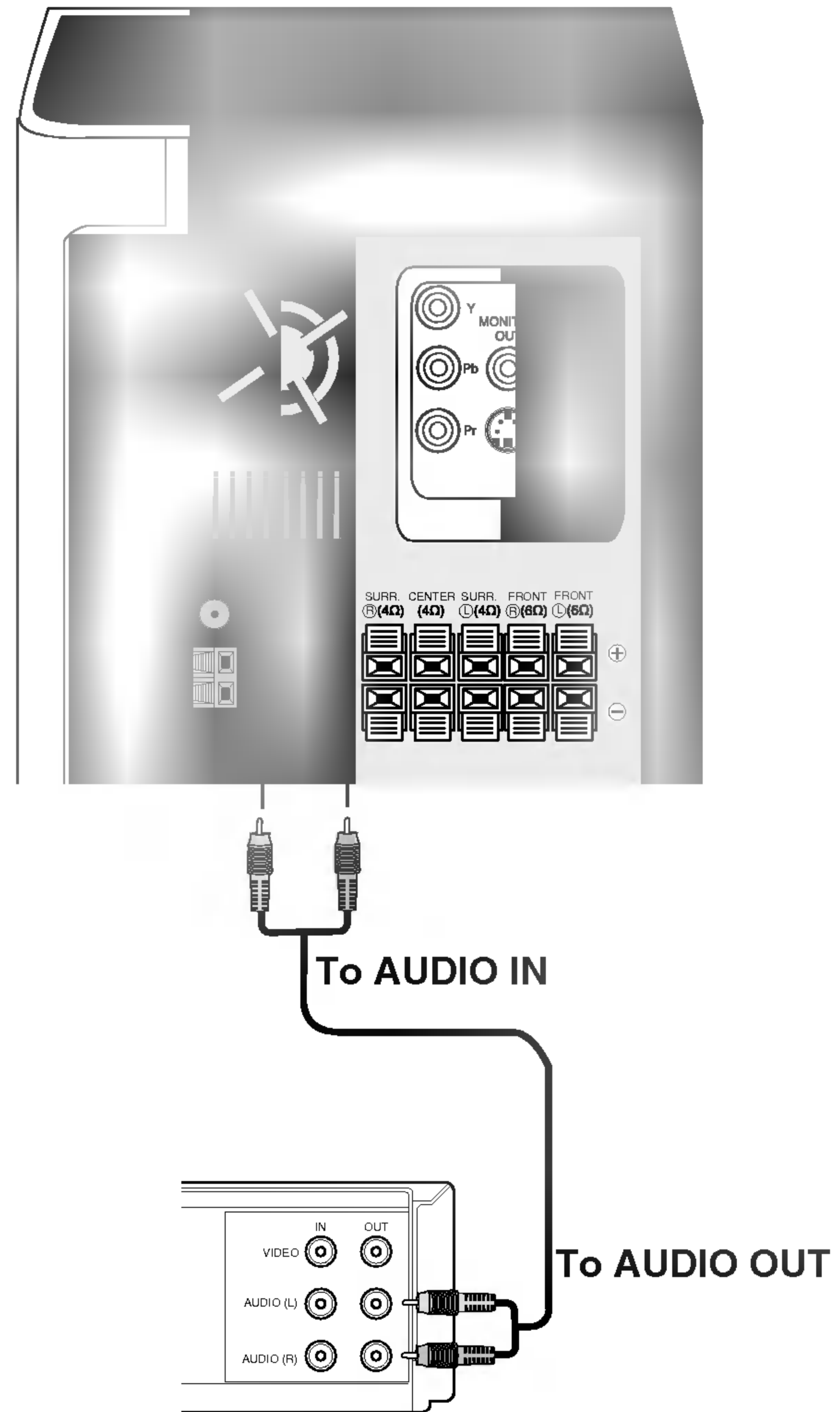
FM wire antenna (supplied)

#### Notes

- To prevent noise pickup, keep the AM loop antenna away from the unit and other component.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.

### Connecting to Auxiliary Equipment

You can use VCR or other unit connected to the AUX connector.



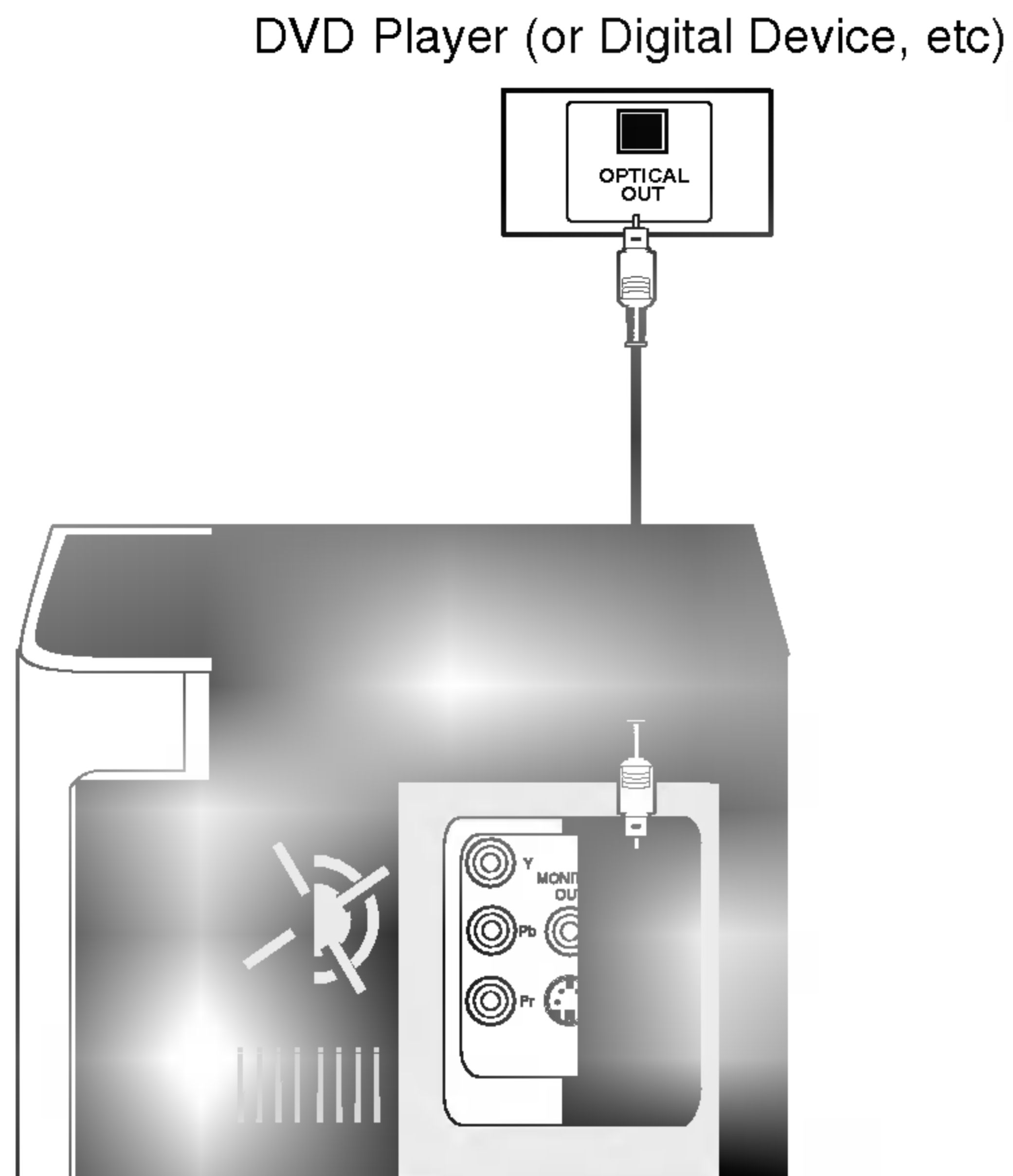
### VCR (or Auxiliary Device, etc)

- 1** Connect a VCR or auxiliary device, etc to the AUX connector.
- 2** Select AUX function turning the FUNCTION dial on the front panel or pressing the AUX/D.INPUT button on the remote control. "AUX" will be shown on the display window.

## Connections

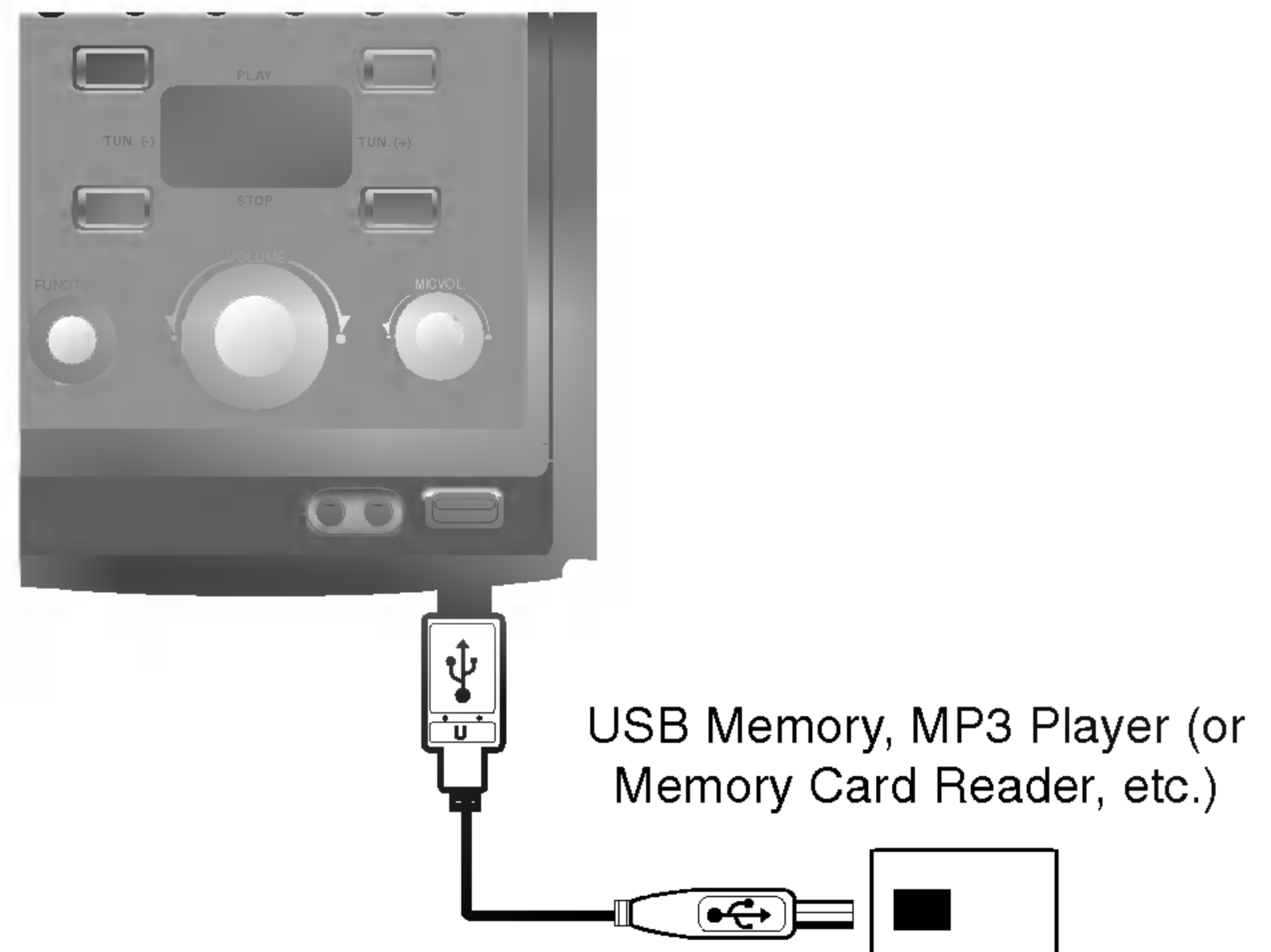
### Connecting to Optional Equipment

You can use an optical output of Digital Device to the OPTICAL IN connector.



- 1** Connect an optical output of DVD Player (or Digital Device etc) to the OPTICAL IN connector.
- 2** Select AUX OPT function turning the FUNCTION dial on the front panel or pressing the AUX/D.INPUT button on the remote control. "AUX OPT" will be shown on the display window.

### Connecting to USB



- 1** Connect the USB port of USB memory (or MP3 player, etc) to the USB connector on the front panel.
- 2** Select USB function turning the FUNCTION dial on the front panel or pressing the USB button on the remote control. "USB" will be shown on the display window.

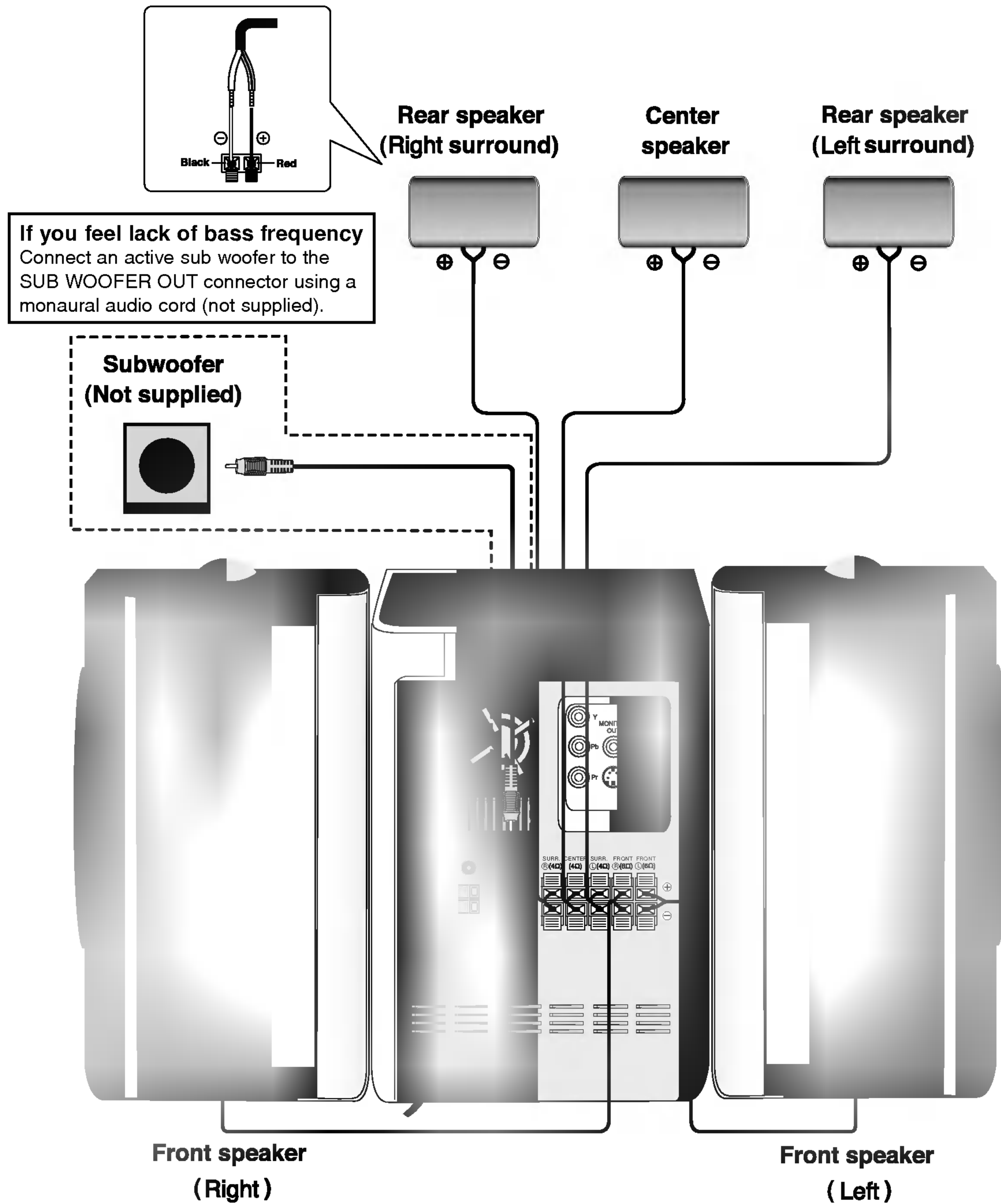
#### **N**ote

The DivX files in your memory card will not be able to be played.

## Connections

### Speaker System Connection

Connect the speakers using the supplied speaker cords by matching the colors of the terminals and those of the cords. To obtain the best possible surround sound, adjust the speaker parameters (distance, level, etc.).



#### Notes

- Be sure to match the speaker cord to the appropriate terminal on the components: + to + and – to –. If the cords are reversed, the sound will be distorted and will lack base.
- If you use front speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.
- Connect the Front Left/Right speaker correctly. If it is reversed, the sound may be distorted.

## Connections

### Speaker Positioning

In the case of normal position use the 6 speakers (2 front speakers, center speaker, 2 rear speakers and subwoofer).

If you want to play the excellent bass sound or Dolby Digital surround, you should connect a subwoofer.

- **Front speakers**

According to your listening position set up the speakers for equal distance. And by hearing position set up the interval between speakers to 45 degree.

- **Center speaker**

It is ideal that the center speakers and front speakers are same height. But normally place it above or below the television.

- **Rear speakers**

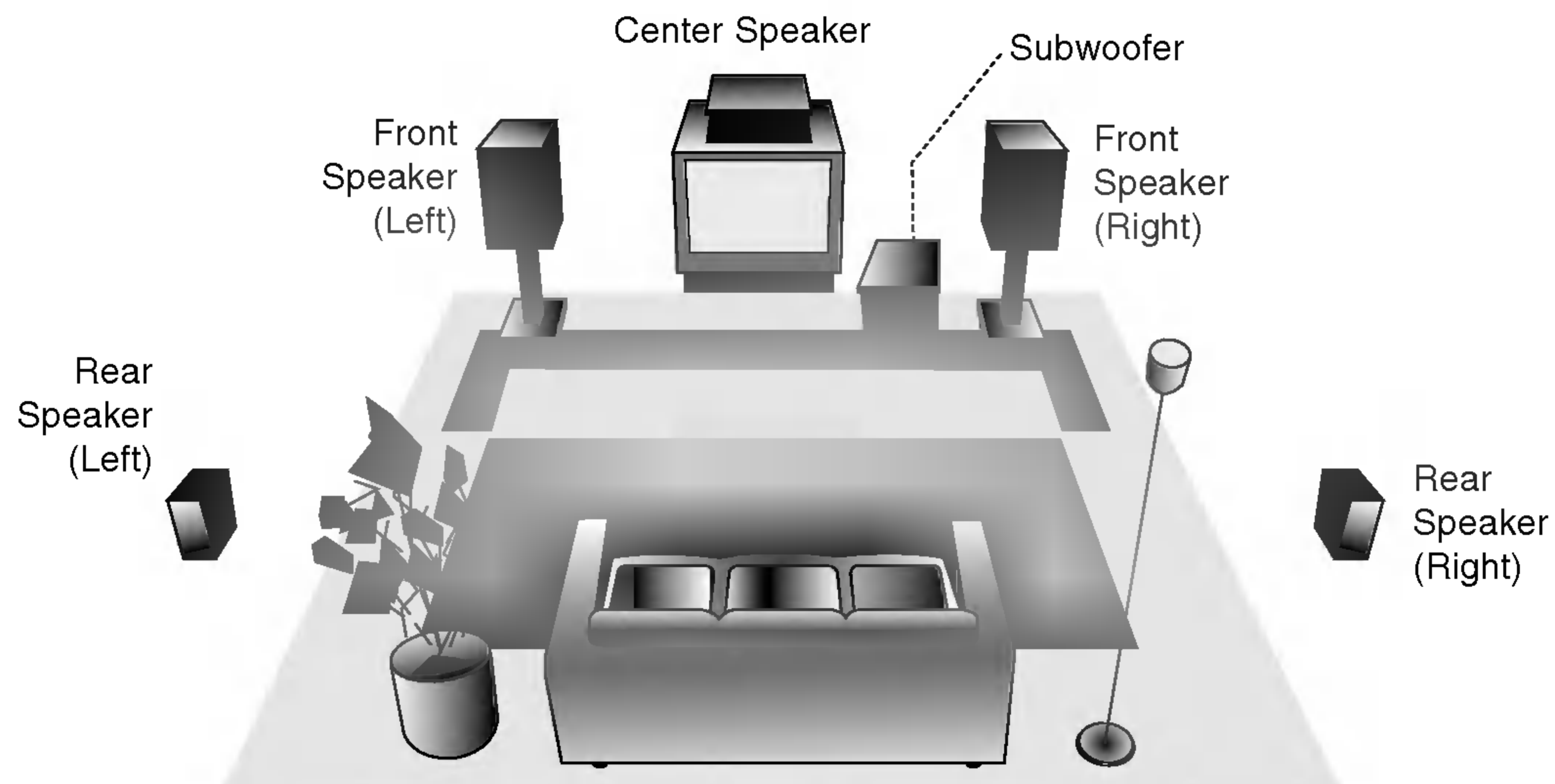
Place left and right behind the listening area.

These speakers recreate sound motion and atmosphere required for surround playback. For best results, do not install the rear speakers too far behind the listening position and install them at or above the level of the listener's ears. It is also effective to direct the rear speakers towards a wall or ceiling to further disperse the sound.

In the case of a smaller room size, if the audience is near to the rear wall set the rear speakers opposite each other, and set the rear speakers above 60-90cm than the listener's ears.

- **Subwoofer**

This can be placed in any front position.



**Speaker Positioning Example**





## Before Operation

### Timer Function

With the TIMER function you can have the radio reception, CD play and USB play turned on and off at the time desired.

**1** Press **CLOCK** to check the current time.

#### For your reference

If you don't set clock, timer function doesn't work.

**2** Press **⊖TIMER** to enter the timer setting mode. TUNER→DVD/CD →USB flash in the display window in turn.

#### For your reference

If you want to correct the previous memorized TIMER setting, press and hold the **⊖TIMER** button more than 2 seconds.

- The previous memorized timer setting for on Time and "⊖" indicator appears in the display window.

**3** Press **SET/CDII** when the desired function flashes.

- 4**
1. When you select the **TUNER** function, Select the previous memorized preset number with **⏪ ⏩** on the front panel and press **SET/CDII**. 'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.
  2. When you select **DVD/CD** or **USB** function, 'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.

**5** Set the hour to switch on by pressing **⏪ ⏩** on the front panel.

**6** Press **SET/CDII** to confirm the turn on hour time.

**7** Set the minute to switch on by pressing **⏪ ⏩** on the front panel.

**8** Press **SET/CDII** to confirm the turn on minutes time. 'OFF TIME' indicator appears for about 0.5 seconds in the display window and then disappears.

**9** Set the hour to switch off by pressing **⏪ ⏩** on the front panel.

**10** Press **SET/CDII**.

**11** Set the minute to switch off by pressing **⏪ ⏩** on the front panel.

**12** Press **SET/CDII**.

**13** Adjust the volume level by pressing **⏪ ⏩** on the front panel.

**14** Press **SET/CDII**. "⊖" appears in the display window and the timer setting has been completed.

**15** Turn the system off. The selected timer functions are automatically switched on and off at the preset times.

### To cancel or check the timer

Each time the **⊖TIMER** button is pressed you can select the timer set or cancel. You can also check the timer setting status.

To activate or check the timer, press the **⊖TIMER** button repeatedly so that "⊖" appears in the display window.

To cancel the TIMER, press the **⊖TIMER** button repeatedly so that "⊖" disappears from the display window.

### Note

If you insert the DVD, VCD or MP3 except audio CD on the unit, the timer function will be operated to the TUNER.

## Before Operation


### Mini Glossary for Audio Stream & Surround mode

#### **dtS**

Allows you to enjoy 5.1(or 6) discrete channels of high quality digital audio from DTS program sources such as discs, DVD and compact discs, etc.bearing the trademark. DTS Digital Surround delivers up to 6 channels of transparent audio(which means identical to the original masters) and results in exceptional clarity throughout a true 360 degree sound field.

“DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.

#### **DIGITAL**

The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from a Dolby Digital program source. If you play DVDs with “” mark, you can enjoy even better sound quality, greater spatial accuracy, and improved dynamic range.

Manufactured under license from Dolby Laboratories.

“Dolby”, “Pro Logic” and double-D symbol are trademarks of Dolby Laboratories.

#### **PRO LOGIC II**

Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

##### **MOVIE mode:**

The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 5.1-channel sound.

##### **MUSIC mode:**

The Music mode is for use with any stereo music recordings.

##### **MATRIX mode:**

The Matrix mode is the same as the Music mode except that the directional enhancement logic is turned off. It may be used to enhance mono signals by making them seem “larger.” The Matrix mode may also find use in auto systems, where the fluctuations from poor FM stereo reception can otherwise cause disturbing surround signals from a logic decoder. The ultimate “cure” for poor FM stereo reception may be simply to force the audio to mono.

#### **BYPASS**

Outputs the sound from the front left and right speakers and subwoofer.

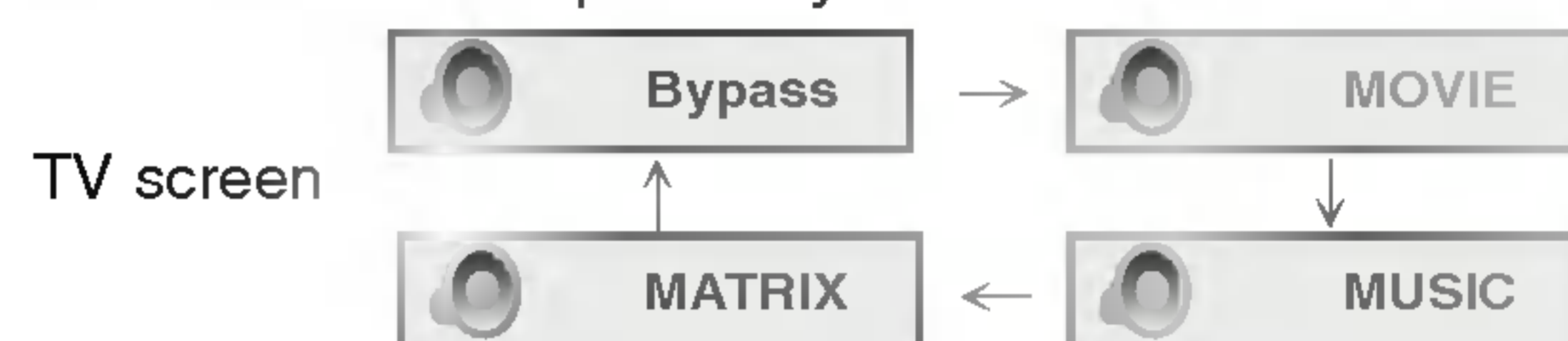
### Sound Mode



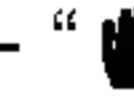
You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to.

#### **When DVD is inserted**

You can change the Digital Audio Output mode by pressing the **AUDIO** button on the remote control during playback. Although the DVD contents differ from disc to disc, the following explains the basic operation when this feature is used.

- a) After you select 2 channel (For example  or ) by pressing AUDIO button, press SOUND button repeatedly.



- b) After you select 5.1 channel (For example  or ) by pressing AUDIO button, press SOUND button.
- “” indicator will be displayed on the TV screen.
  - “BYPASS” indicator will be only displayed on the display window.

#### **When Video CD is inserted**

Each time you press SOUND button, the sound mode of Video CD is changed on the display window as the following order.

BYPASS → STUDIO → CLUB → HALL → THEATER 1 → CHURCH → PLII MOVIE → PLII MUSIC → PLII MTRX →BYPASS...

#### **Note**



After you select the “Bypass” of sound mode by pressing SOUND button, press AUDIO button. The Left, Right and Stereo of audio channel will be displayed on the TV screen.

#### **When CD is inserted**

Each time you press SOUND button, the sound mode of Audio CD is changed on the display window as the following order.

BYPASS → STUDIO → CLUB → HALL → THEATER 1 → CHURCH → PLII MOVIE → PLII MUSIC → PLII MTRX →BYPASS...

#### **For your reference**

- **You can identify the encoding format of program software by looking at its packaging.**
  - Dolby Digital discs are labelled with the  logo.
  - Dolby Surround encoded programs are labelled with the  logo.
  - DTS Digital Surround discs are marked with DTS.

#### **Notes**

- When you play sound tracks with 96kHz sampling frequency, the output signals will be converted to 48kHz (sampling frequency).
- When you use a microphone, you can't enjoy 5.1 channel output. Only 2 channel sound will out by the influence of the microphone system.





## Before Operation


### Caution:

Before using the remote control, press the **DVD** button to select the device to be operated.

**3** Press **◀** or **▶** to change the setting of an item. The number buttons can be also be used for setting numbers (e.g., title number). For some functions, press **SELECT/ENTER** to execute the setting.

## General Explanation

This manual gives basic instructions for operating the unit. Some DVDs require specific operation or allow only limited operation during playback.

When this occurs, the symbol  appears on the TV screen, indicating that the operation is not permitted by the unit or is not available on the disc.

## On-Screen Display





General playback status can be displayed on the TV screen. Some items can be changed on the menu.

### On-screen display operation

**1** Press **DISPLAY** during playback.

**2** Press **▲** / **▼** to select an item. The selected item will be highlighted.



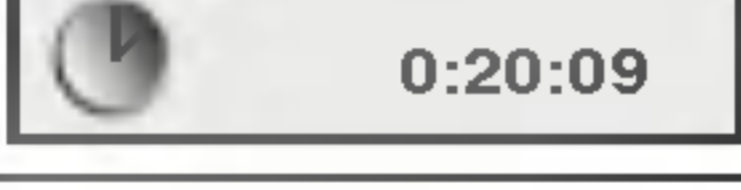
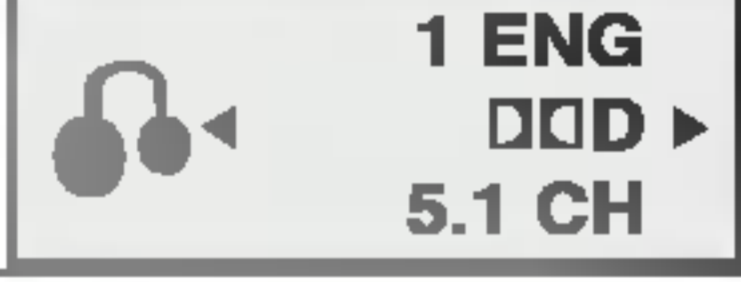



### Temporary Feedback Field Icons

-  Repeat title
-  Repeat sequence
-  Resume play from this point
-  Action prohibited or not available

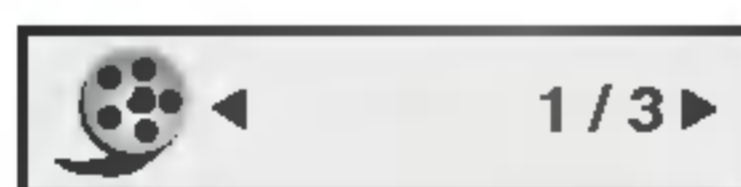
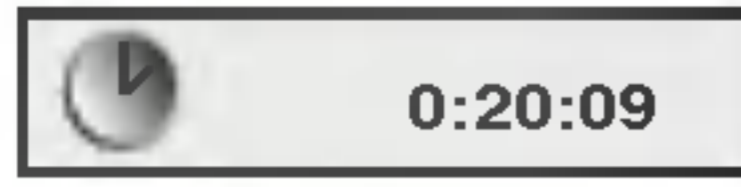


### Notes

- Some discs may not provide all of the features on the on-screen display example shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

### Example: On-Screen Display during playing DVD

Items	Function / Action using <b>▲</b> / <b>▼</b> to select item	Selection Method
Title Number	 Shows the current title number and total number of titles / skips to the desired title number.	<b>◀</b> / <b>▶</b> , Numbers or <b>SELECT/ENTER</b>
Chapter Number	 Shows the current chapter number and total number of chapters / skips to the desired chapter number.	<b>◀</b> / <b>▶</b> , Numbers or <b>SELECT/ENTER</b>
Time search	 Shows the elapsed playing time / searches by elapsed time.	Numbers, <b>SELECT/ENTER</b>
Audio language and Digital Audio Output mode	 Shows the current audio soundtrack language, encoding method, and channel number / changes the setting.	<b>◀</b> / <b>▶</b> or <b>AUDIO</b>
Subtitle language	 Shows the current subtitle language / changes the setting.	<b>◀</b> / <b>▶</b> or <b>SUBTITLE</b>
Angle	 Shows the current angle number and total number of angles / changes the angle.	<b>◀</b> / <b>▶</b>
Sound	 Shows the current sound mode / changes the setting.	<b>◀</b> / <b>▶</b> or <b>SOUND</b>

### Example: On-Screen Display during playing VCD

Items	Function / Action using <b>▲</b> / <b>▼</b> to select item	Selection Method
Track Number	 Shows the current track number, total number of tracks and PBC On mode / skips to the desired track number.	<b>◀</b> / <b>▶</b> , Numbers or <b>SELECT/ENTER</b>
Time	 Shows the elapsed playing time (display only).	Numbers, <b>SELECT/ENTER</b>
Audio Channel	 Shows the audio channel / changes the audio channel.	<b>◀</b> / <b>▶</b> or <b>AUDIO</b>
Sound	 Shows the current sound mode / changes the setting.	<b>◀</b> / <b>▶</b> or <b>SOUND</b>



## Before Operation

### 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 18 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.

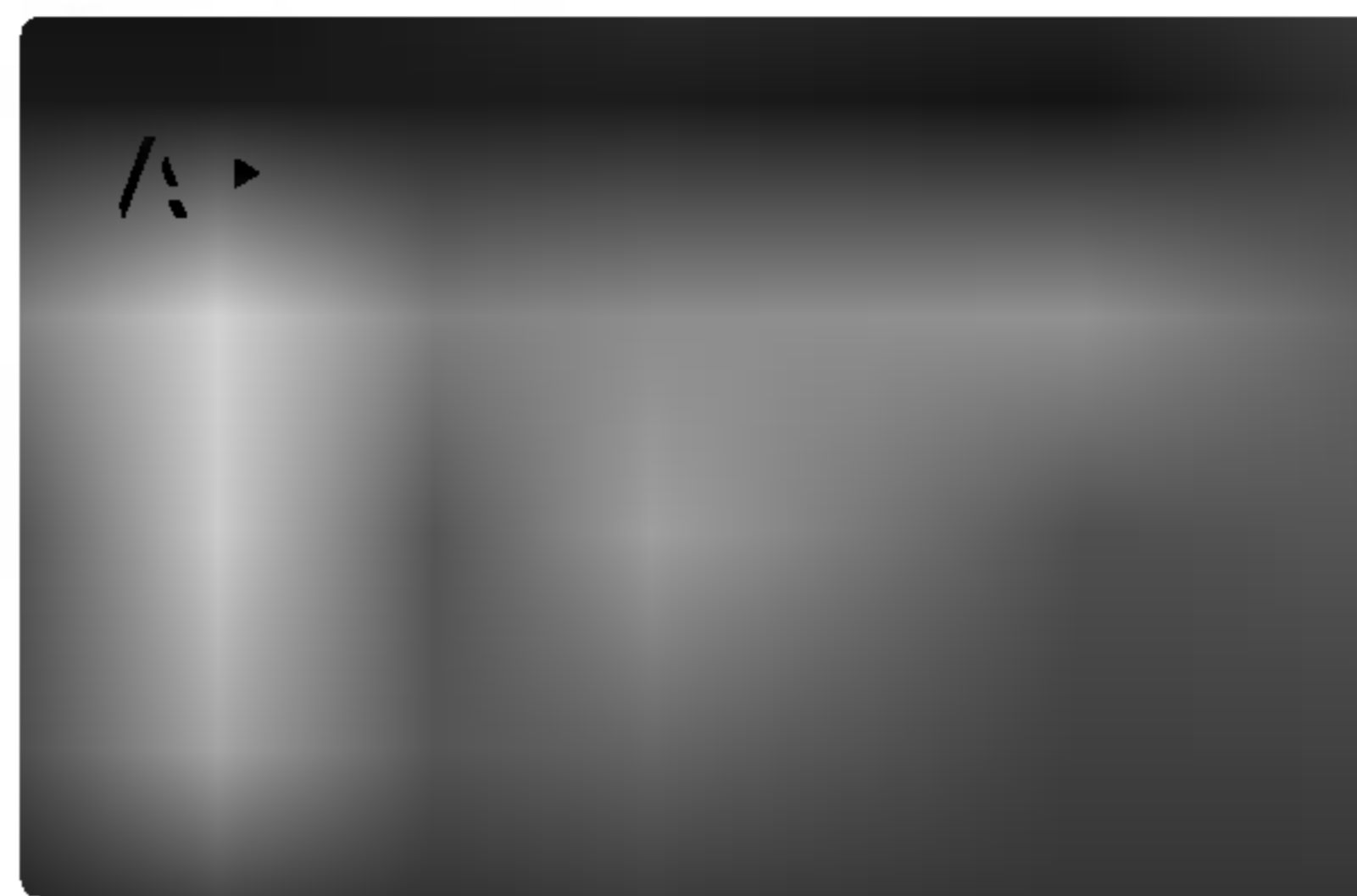
#### To go back to the previous level:

Press **◀** on the remote control.

### General Operation

- 1 Press SETUP.**  
The setup menu appears.
- 2 Use ▲ / ▼ to select the desired option then press ▶ to move to the second level.**  
The screen will be shown 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 SELECT/ENTER to confirm your selection.**  
Some items require additional steps.
- 5 Press SETUP or PLAY to exit the setup menu.**

### LANGUAGE



#### OSD

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

#### Disc Audio / Subtitle / Menu

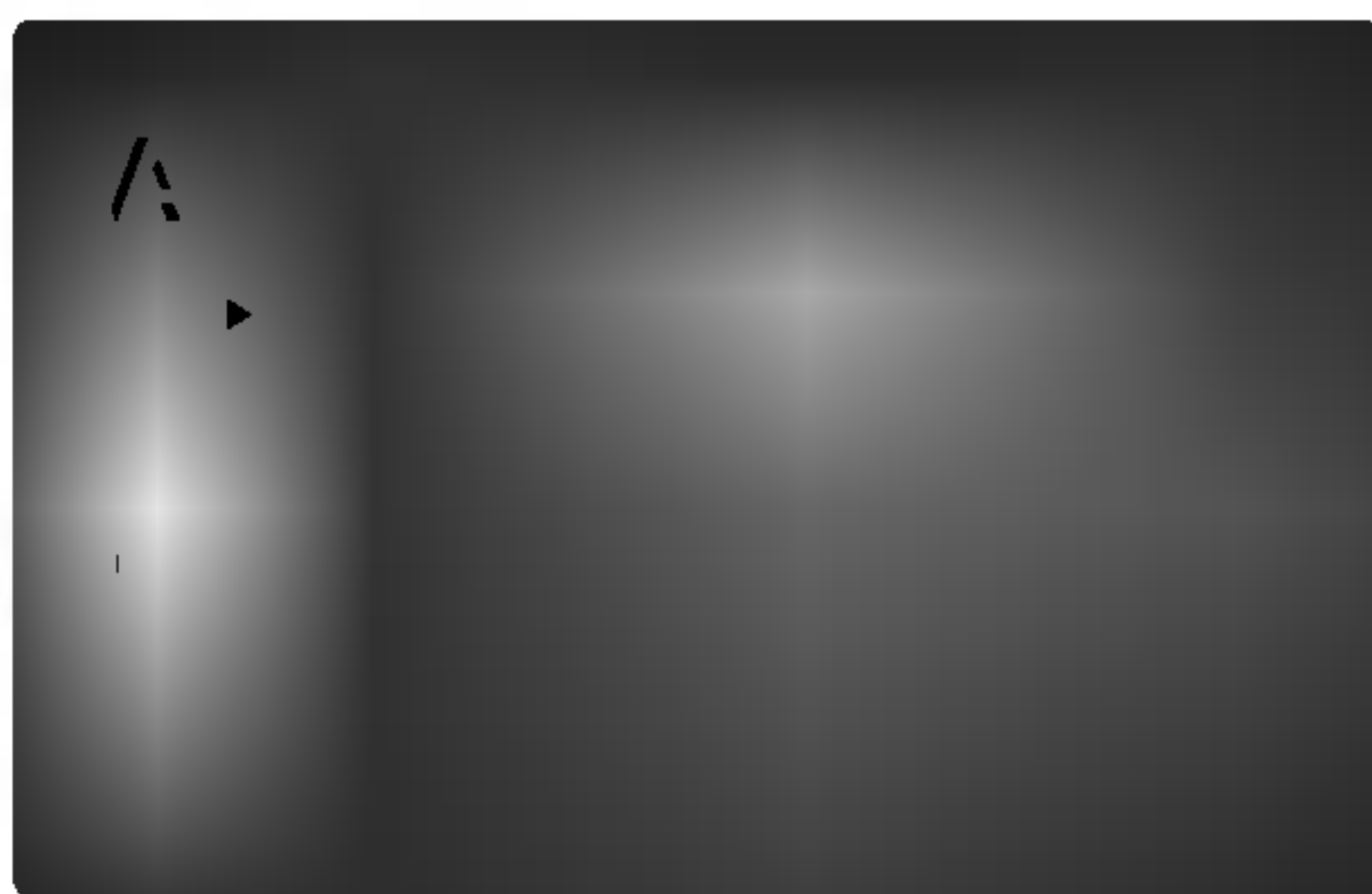
Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu.

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

**Other:** To select another language, press number buttons to enter the corresponding 4-digit number according to the language code list on page 33. If you enter the wrong language code, press **CLEAR** on the remote control.

## Before Operation

### DISPLAY



#### TV Aspect

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

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

#### Display Mode

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

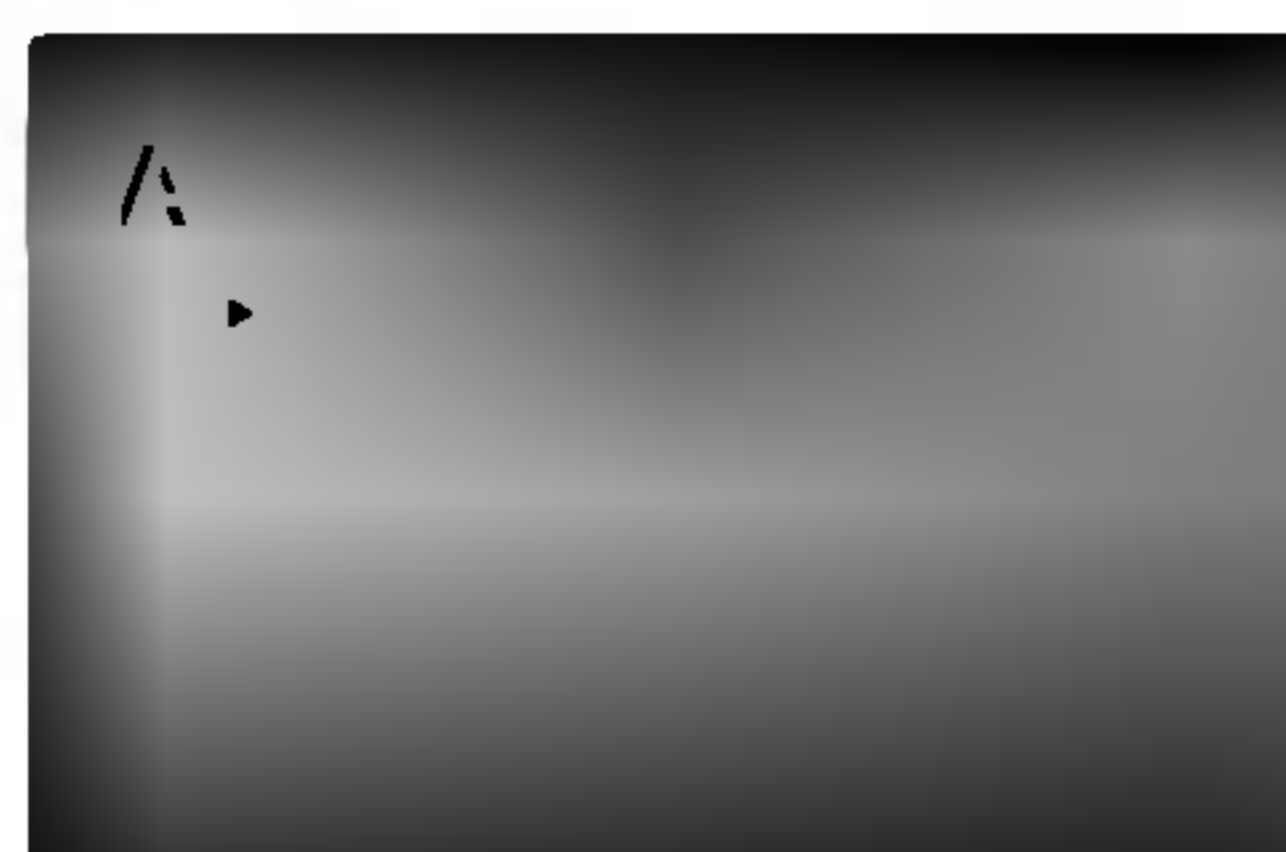
Progressive Scan Video provides the highest quality pictures with less flickering.





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.

##### To Turn ON progressive scan:

Connect component out of the DVD to the input of your monitor/television, set your television or monitor to Component Input.


1. Select "Progressive Scan" on the DISPLAY menu then press .



2. Select "On" using the  /  buttons.
3. Press SELECT/ENTER to confirm your selection. The confirm menu will appear.
4. When the confirm menu appears on your screen Cancel is highlighted as default. Use the  /  buttons to highlight Enter.
5. Pressing Enter will set the player to Progressive scan mode.

#### Caution

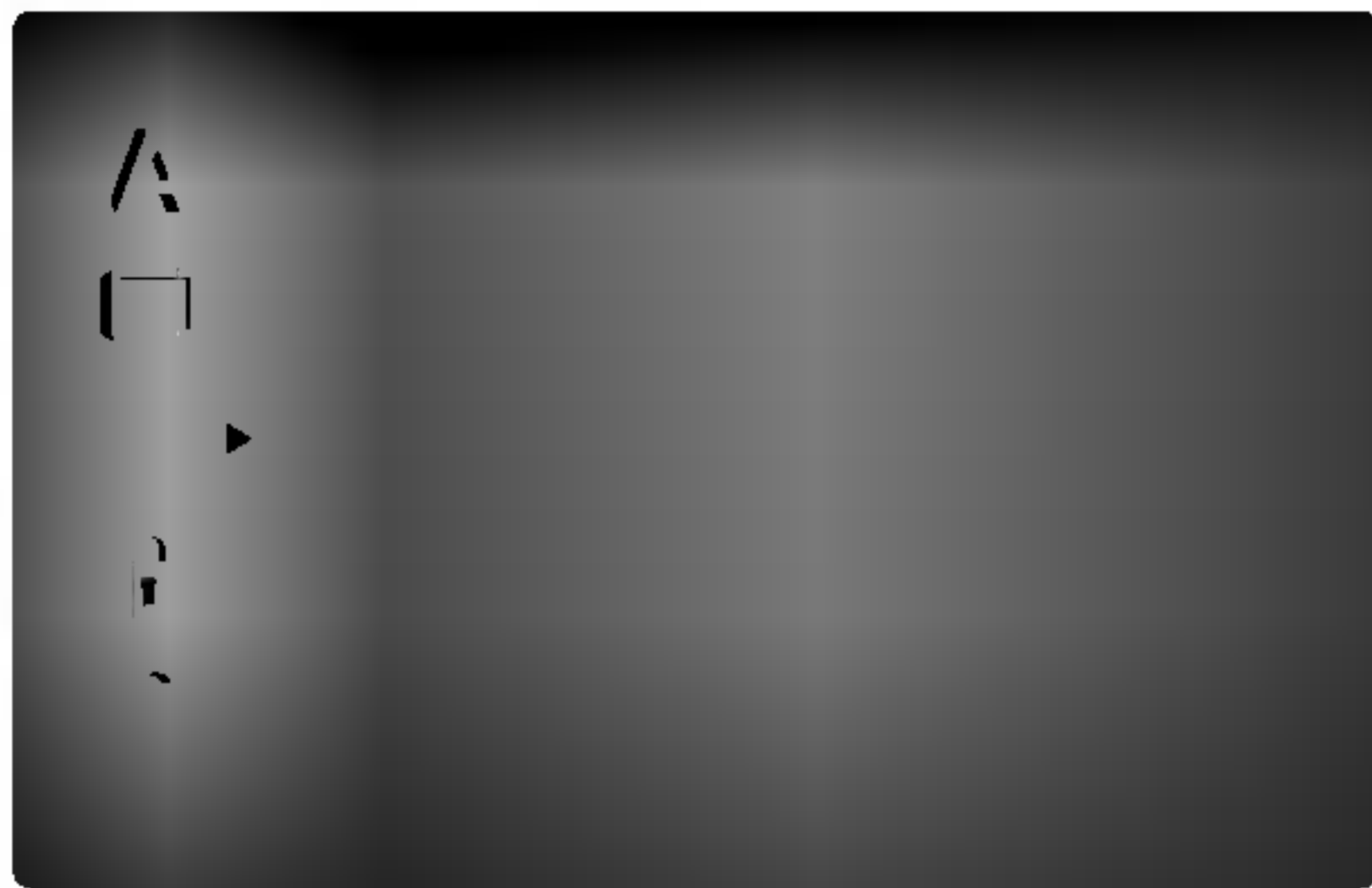
Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor. If you set Progressive Scan to On in error, you must reset the unit.

- 1) Remove any disc from the unit and close the disc tray. See that "NO DISC" is displayed on the display window
- 2) Press and hold STOP () for five seconds then release 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.

## Before Operation

### 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.



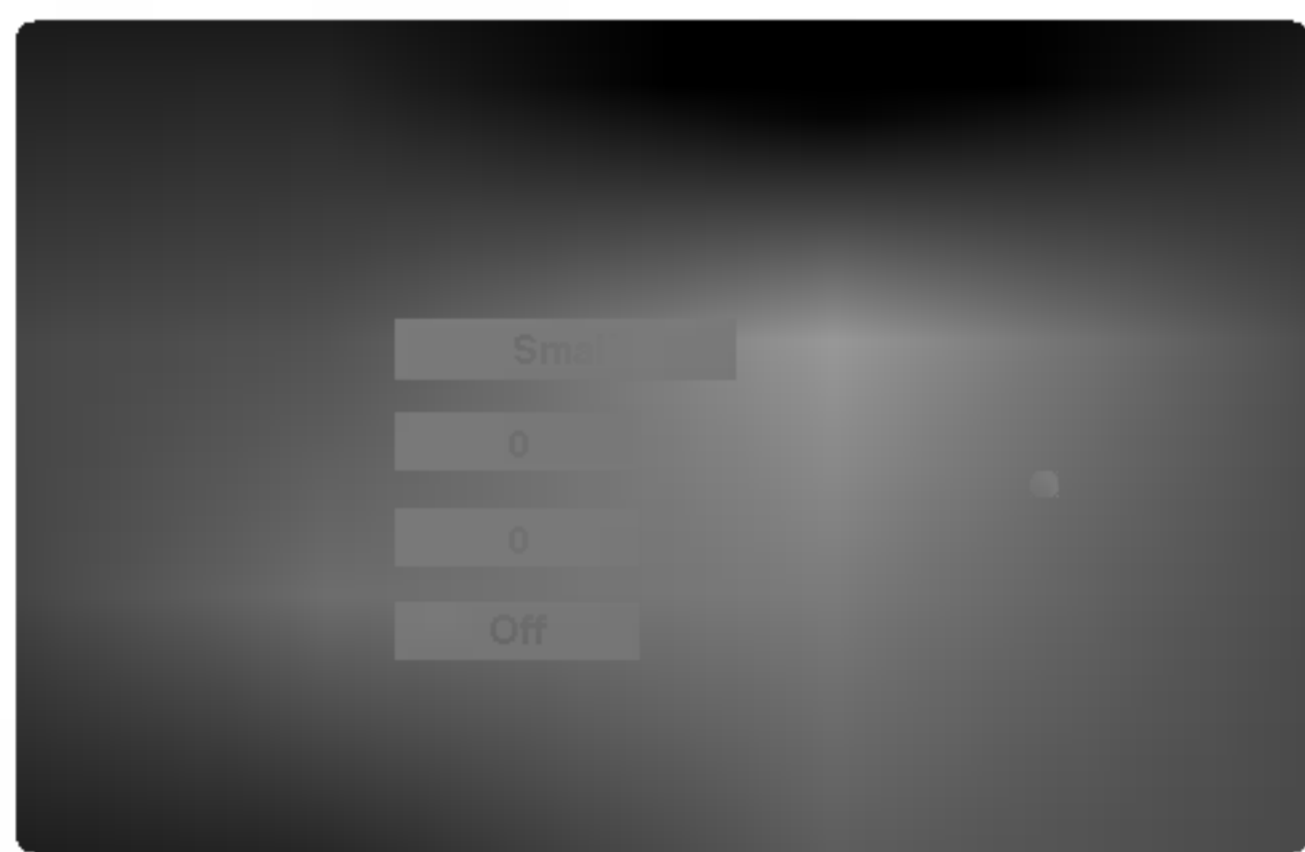
#### 5.1 Speaker Setup






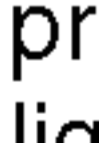






Select speaker settings, including volume balance and distance, or test the speaker settings.

Speaker settings are only active on the Analog Multi-Channel Output.

#### Speaker Setup

Make the following settings for the built-in 5.1 channel surround decoder.



1. Press SETUP. The setup menu appears.
2. Use  /  to select the AUDIO option then press  to move to the second level.
3. Use  /  to select the Speaker Setup option then press  to move to the third level. "Select" is highlighted.
4. Press SELECT/ENTER and 5.1 Speaker Setup menu appears.
5. Use  /  to select the desired speaker.
6. Adjust options using  /  /  /  buttons.
7. Press SELECT/ENTER to confirm your selection. The unit returns to the previous menu.

#### Speaker

Select a speaker that you want to adjust. [Front speaker (Front L), Front speaker (Front R), Center Speaker (Center), Subwoofer (Woofer), Rear speaker (Rear L), Rear speaker (Rear R)]

#### Note



Certain speaker settings are prohibited by the Dolby Digital licensing agreement.

#### Size

Press  /  to set a mode. (Large, Small or None)



- The size of the Front L/R speaker can be selected to "Large" or "Small".
- The size of the Subwoofer can be selected to "Large" or "None".
- Since the size of the Center and Rear L/R speaker are fixed to "Small", you can not change settings.
- If you have connected the system to a speaker with low frequency of 100Hz or below, select to "Large" the size of the Front L/R speaker. The size of the Subwoofer is selected to "None" automatically.
- If you have connected the system to a speaker without low frequency of 100Hz or below, select to "Small" the size of the Front L/R speaker. The size of the Subwoofer is selected to "Large" automatically. But if you haven't connected to subwoofer, always select to "Large" the size of Front L/R Speaker.

#### Volume

Press  /  to adjust the output level of the selected speaker. (-5dB ~ 5dB)

#### Distance

If you have connected speakers to your DVD Player, setting the Distance lets the speakers know how far the sound has to travel to reach your set listening point. This allows the sound from each speaker to reach the listener at the same time.

Press  /  to adjust the Distance of the selected speaker (Center, Rear L and Rear R).

#### Test

Select "All" to test the signals of each speaker.

Adjust the volume to match the volume of test signals memorized in the system.

(When the size of the Front L/R speaker is selected to "Large", the subwoofer (Woofer) is not available.)

Front L → Center → Front R → Rear R → Rear L → Woofer

#### Dynamic Range Control (DRC)

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). Then, you may listen to a movie at a lower volume without losing dialog intelligibility. Set DRC to On for this effect.

#### Notes

- The DRC function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Compression may differ depending on the DVD disc.

#### Vocal

Set Vocal to On only when a multi-channel Karaoke DVD is playing. The karaoke channels on the disc will mix into a normal stereo sound.



## Before Operation

### LOCK (Parental Control)



#### Rating

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.

**1** Select "Rating" on the LOCK menu then press **▶**.

**2** To access the Rating, Password and Country Code features, you must input the 4-digit security code you created.

If you have not yet entered a security code you are prompted to do so.

Input a 4-digit code and press SELECT/ENTER. Enter it again and press SELECT/ENTER to verify. If you make a mistake before pressing SELECT/ENTER, press CLEAR.

**3** Select a rating from 1 to 8 using the **▲** / **▼** buttons.

**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.

**4** Press SELECT/ENTER to confirm your rating selection, then press SETUP to exit the menu.

### Password (Security Code)

You can enter or change password.

- 1 Select Password on the LOCK menu then press **▶**.
- 2 Follow step 2 as shown left (Rating). "Change" or "New" is highlighted.
- 3 Enter the new 4-digit code, then press SELECT/ENTER. Input it again to verify.
- 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 Input the 6-digit number "210499" on the setup menu and the security code is cleared.
- 2 Enter a new code as described above.

#### Note

When " " appears on the TV screen, press STOP (**■**) and then press SETUP to move to the setup menu.

### Country Code

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.

**1** Select "Country Code" on the LOCK menu then press **▶**.

**2** Follow step 2 as shown left (Rating).

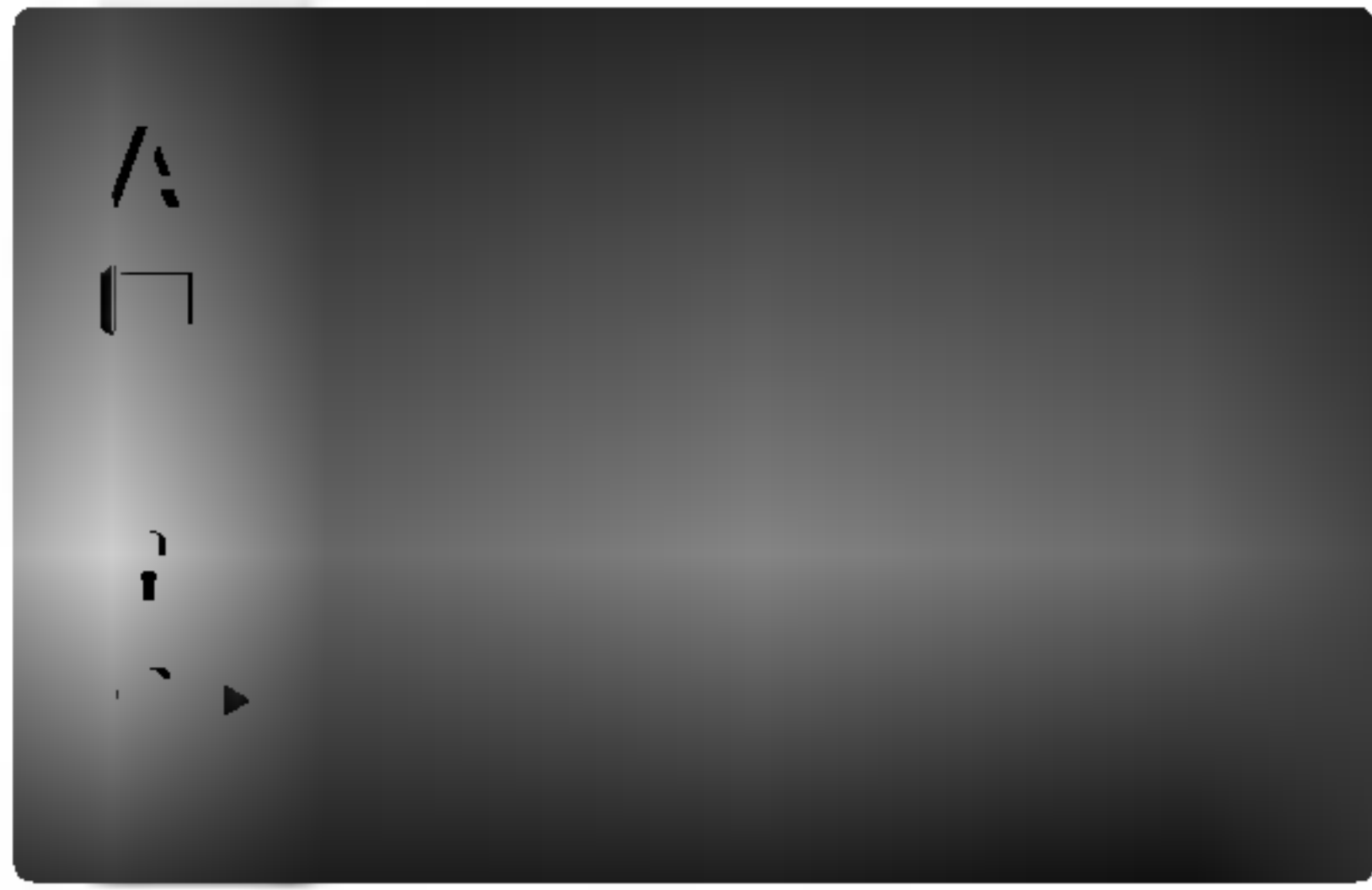
**3** Select the first character using **▲** / **▼** buttons.

**4** Shift the cursor using **▶** button and select the second character using **▲** / **▼** buttons.

**5** Press SELECT/ENTER to confirm your country code selection.

## Before Operation

### OTHERS



### PBC

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.

### DivX(R) Registration

You can show the DivX DRM (Digital Right Management) Registration code for your unit only.

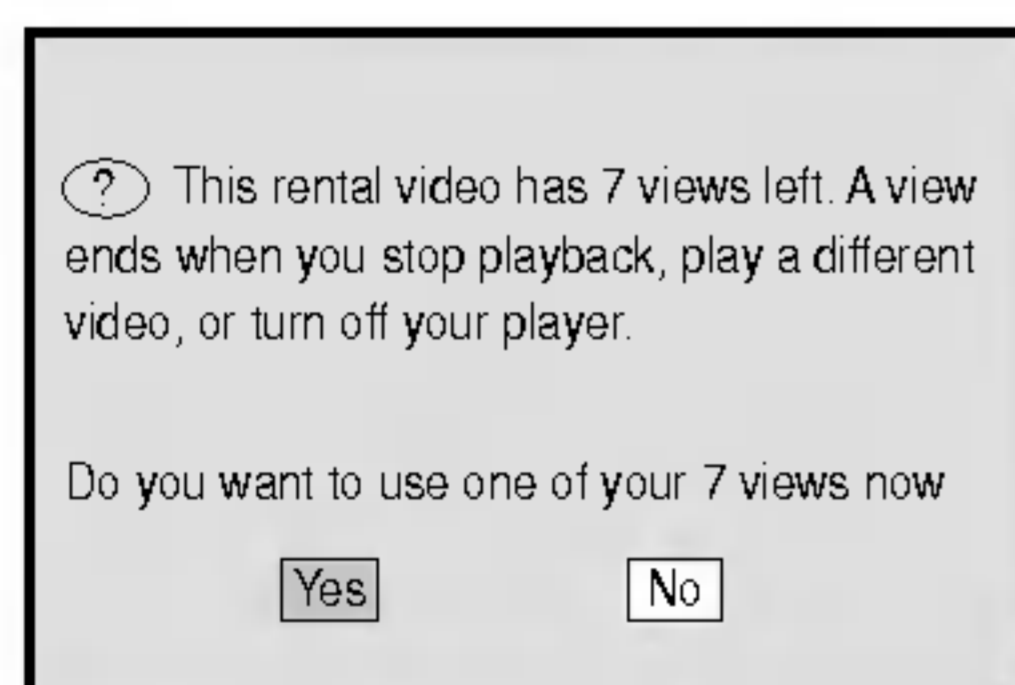


The Registration code is used for VOD (Video-On-Demand) service agent. You can purchase or rental an encrypt movie file.

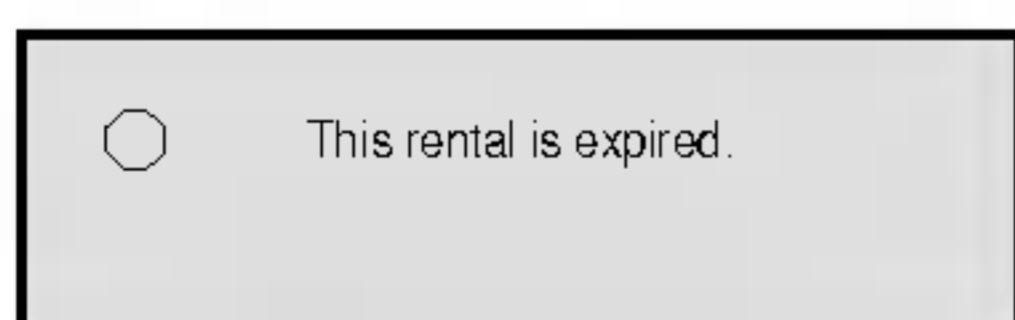
### Notes

If you rent the DivX VOD file, it has several options of viewing limits as show below.

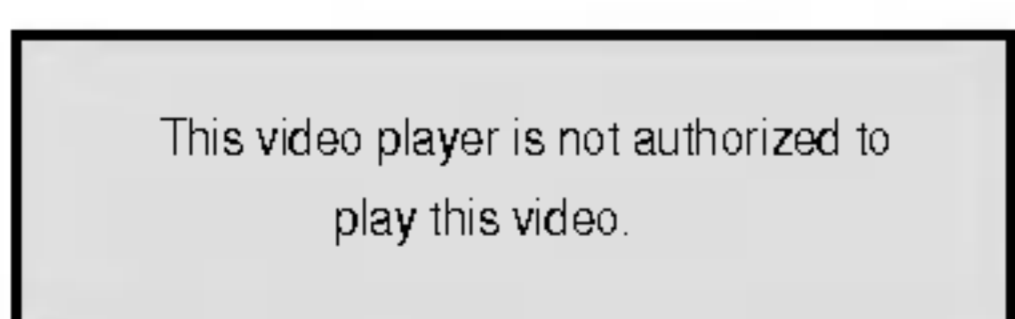
- Display the number which you can watch the file.



- The rental has been expired.



- Display the authorization error.



## Operation with DVD and Video CD

### Playing a DVD and Video CD

#### Playback Setup

- Turn on the TV and select the video input source connected to the unit.
- Audio system: Turn on the audio system and select the input source connected to the unit.

**1** Press **▲ OPEN/CLOSE** button to open the disc tray.

**2** Load your chosen disc in the tray, with the playback side facing down.

**3** Press **▲ OPEN/CLOSE** button to close the tray. Playback starts automatically. If playback does not start, press **PLAY**. In some cases, the disc menu might appear instead.

#### If a menu screen is displayed

The menu screen may be displayed first after loading a DVD or Video CD which contains a menu.

Use the **▲ / ▼ / ◀ / ▶** buttons to select the title/chapter you want to view, then press **SELECT/ ENTER** to start. Press **TITLE** or **MENU** to return to the menu screen.

Use the number buttons to select the track you want to view and press **RETURN** to return to the menu screen. Menu setting and the exact operating procedures for using the menu may differ depending on the disc. Follow the instructions on the each menu screen. You also may set PBC to Off.

#### Notes

- If parental control is set and the disc is not within the rating settings you must input the password. (See "LOCK" on page 21.)
- DVDs may have a region code. Your player will not play discs that have a region code different from your player. The region code for this player is 5 (five).

## Operation with DVD and Video CD

### General Features

#### Note

Unless stated otherwise, all operations described use the remote control. Some features may also be available on the Setup menu.

### Moving to another TITLE

When a disc has more than one title, you can move to another title. Press DISPLAY while playback is stopped then the appropriate number (0-9) or use ◀/▶ to move to another title.

You can play any title by inputting its number while playback is stopped.

### Moving to another CHAPTER/TRACK

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 ◀◀ or ▶▶ briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press ◀◀ twice briefly to step back to the previous chapter/track.
- To go directly to any chapter during DVD playback, press DISPLAY and press ▲/▼ to select the chapter/track icon. Then, input the chapter/track number or use ◀/▶.

### Search

- 1 Press ◀◀ or ▶▶ during playback.  
The player will now go into SEARCH mode.
- 2 Press ◀◀ or ▶▶ repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X8, ◀◀X16, ◀◀X100 (backward) or ▶▶X2, ▶▶X4, ▶▶X8, ▶▶X16, ▶▶X100 (forward).  
With a DivX/ Video CD, the Search speed changes: ◀◀X2, ◀◀X4, ◀◀X8, ◀◀X16 (backward) or ▶▶X2, ▶▶X4, ▶▶X8, ▶▶X16 (forward).
- 3 To exit SEARCH mode, press PLAY.

### Still Picture and Frame-by-frame playback

- 1 Press PAUSE/STEP on the remote control during playback.  
The player will now go into PAUSE mode.
- 2 You can advance the picture frame-by-frame by pressing PAUSE/STEP repeatedly on the remote control.
- 3 To exit still motion mode, press PLAY.

### Slow Motion

- 1 Press ◀◀ or ▶▶ on the remote control during playback.  
The player will enter SLOW mode.
- 2 Use the ◀◀ or ▶▶ to select the required speed: ◀◀ 1/2, ◀◀ 1/4, ◀◀ 1/8 or ◀◀ 1/16 [(backward) - DVD only] or ▶▶ 1/2, ▶▶ 1/4, ▶▶ 1/8 or ▶▶ 1/16 (forward).
- 3 To return to normal PLAY, press PLAY.

#### Note

Slow motion playback in reverse is not applicable for Video CD.

### Repeat

You can play a title/chapter/all/track on a disc.

Press REPEAT during playback to select a desired repeat mode.

#### DVD Video Discs - Repeat Chapter/Title/Off

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

#### DivX/ Video CDs - Repeat Track/All/Off

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

#### Note

– 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).

## Operation with DVD and Video CD

### General Features (continued)



#### Repeat A-B

To repeat a sequence in a title:

- 1 Press REPEAT A-B at your chosen starting point.  
“A - ” appears briefly on the TV screen.
- 2 Press REPEAT A-B again at your chosen end point.  
“A - B” appears briefly on the TV screen, and the repeat sequence begins.
- 3 To cancel the sequence, press REPEAT A-B.





#### Time Search

The Time Search function allows you to start playing at any chosen time on the disc.

- 1 Press DISPLAY during playback. The on-screen display appears on the screen.  
The Time Search box shows the elapsed playing time of the current disc.
- 2 Within 10 seconds, press  /  to select the Time Search icon in the on-screen display.  
The “-:--:--” appears in the Time Search box.
- 3 Within 10 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box.  
If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.
- 4 Within 10 seconds, press SELECT/ENTER to confirm the start time.  
Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

#### Zoom

The Zoom function allows you to enlarge the video image and to move through the enlarged image.

- 1 Press ZOOM during playback or still playback to activate the Zoom function.  
If you press ZOOM repeatedly, the magnification level increases up to four steps.  
100% size → 400% size → 800% size → 1600% size → 100% size
- 2 Use the  /  /  /  buttons to move through the zoomed picture.

#### Note

The zoom function may not work for some DVDs.



#### Marker Search

You can start playback from a memorized point. Up to nine points can be memorized.



To enter a mark, follow these steps.

- 1 During disc playback, press MARKER when playback reaches the spot that you want to memorize.  
The Marker icon will appear on the TV screen briefly.
- 2 Repeat step 1 to enter up to nine Marker points on a disc.

#### To Recall a Marked Scene

- 1 During disc playback, press SEARCH.  
The MARKER SEARCH menu will appear on the screen.
- 2 Within 10 seconds, press  /  to select a Marker number that you want to recall.
- 3 Press SELECT/ENTER.  
Playback will start from the Marked scene.
- 4 To remove the MARKER SEARCH menu, press SEARCH.

#### To clear a Marked Scene





- 1 During disc playback, press SEARCH.  
The MARKER SEARCH menu will appear on the screen.
- 2 Press  /  to select the Marker number that you want to erase.
- 3 Press CLEAR.  
The Marker number will be erased from the list.
- 4 Repeat steps 2 and 3 to erase additional Marker numbers.
- 5 To remove the MARKER SEARCH menu, press SEARCH.



## Operation with DVD and Video CD

### Special DVD Features

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

DVDs may offer menus that allow you to access special features. To use the disc menu, press MENU. Then, press the appropriate number button to select an option. Or, use the  /  /  /  buttons to highlight your selection, then press SELECT/ENTER.

#### Title Menu





- 1 Press TITLE.  
If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.
- 2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.
- 3 To remove the title menu, press TITLE again.

#### Disc Menu

Press MENU.  
The disc menu is displayed.

#### Camera Angle

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

- 1 Press DISPLAY and then press the  /  to select a angle.  
The number of the current angle appears on the display window.
- 2 Select a desired angle pressing the  /  buttons.

#### Changing the Audio Language

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

#### Changing the Audio Channel

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

#### Subtitle

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

#### Note

If  appears, the feature is not available on the disc.

### 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 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.

### System Select

You must select the appropriate system mode for your TV system. If NO DISC appears in the display window, press and hold PAUSE/STEP on the remote control for more than 5 seconds to be able to select a system (PAL, NTSC or AUTO).

- When the selected system does not coincide with the system of your TV, normal colour picture may not be displayed.

- AUTO:** Select when the unit is connected with Multi system TV.
- NTSC:** Select when the unit is connected with NTSC-TV.
- PAL:** Select when the unit is connected with PAL-TV.

## Operation with Audio CD and MP3/WMA Disc

### Playing an Audio CD and MP3/WMA

#### Disc

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

#### Audio CD

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



#### MP3 / WMA

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



#### Notes

- If you are in a file list on the MP3/WMA menu and want to return to the Folder list, use the ▲ / ▼ to highlight [L] on the stop mode and press SELECT/ENTER.
- Press MENU to move to the next page.
- On a CD with MP3/WMA file and JPEG file, you can switch MP3/WMA and JPEG menu. Press TITLE on the stop mode and MP3/WMA or JPEG word on top of the menu is highlighted. Then, use ◀ / ▶ to select MP3/WMA or JPEG then press SELECT/ENTER.

#### Pause

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

#### Moving to another Track

- Press ◀◀ or ▶▶ briefly during playback to go to the next track or to return to the beginning of the current track.
- Press ◀◀ twice briefly to step back to the previous track.
- In case of audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.

#### Repeat Track/All/Off

You can play a title/chapter/all/track 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.
  - Off(No display): does not play repeatedly.

#### Search

- 1 Press ◀◀ or ▶▶ during playback. The player will now go into SEARCH mode.
- 2 Press ◀◀ or ▶▶ repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X8 (backward) or ▶▶X2, ▶▶X4, ▶▶X8 (forward).
- 3 To exit SEARCH mode, press PLAY.

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

- Sampling frequency: within 32 - 48 kHz (MP3), within 24 - 48kHz (WMA)
- Bit rate: within 32 - 320kbps (MP3), 40 - 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 999.

This unit 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.**

## Operation with JPEG Disc

### Viewing a JPEG disc

This unit can play discs with JPEG files.  
Before playing JPEG recordings, read the notes on JPEG Recordings on right.

- 1 Insert a disc and close the tray.**  
The JPEG menu appears on the TV screen.



- 2 Press  $\blacktriangle$  /  $\blacktriangledown$  to select a folder, and press SELECT/ENTER. A list of files in the folder appears.**



**Tip**  
If you are in a file list and want to return to the Folder list, use the  $\blacktriangle$  /  $\blacktriangledown$  buttons on the remote control to highlight "■" and press SELECT/ENTER to return to the previous menu screen.

- 3 If you want to view a particular file, press  $\blacktriangle$  /  $\blacktriangledown$  to highlight a file and press SELECT/ENTER or PLAY.**

Slide Show starts from the selected file if Speed option is not Off.

While viewing a file, you can press STOP(■) to move to the previous menu (JPEG menu).



- Press MENU to move to the next page.
- There are four Slide Speed options: ■ :  
> (Slow), >> (Normal), >>> (Fast) and II (off).  
Use  $\blacktriangle$  /  $\blacktriangledown$  /  $\blacktriangleleft$  /  $\blacktriangleright$  to highlight the Speed. Then, use  $\blacktriangleleft$  /  $\blacktriangleright$  to select the option you want to use then press SELECT/ENTER.
- If you set Speed option to Off, Slide Show is not active.

### Slide Show

Use  $\blacktriangle$  /  $\blacktriangledown$  /  $\blacktriangleleft$  /  $\blacktriangleright$  to highlight the ■ (Slide Show) then press SELECT/ENTER.

### Moving to another File

Press  $\blacktriangleleft$  or  $\blacktriangleright$  once during viewing a picture to advance to the next file or to the previous file.

### Still Picture

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

### To rotate picture

Press  $\blacktriangleleft$  /  $\blacktriangleright$  during showing a picture to rotate the picture clockwise or counter-clockwise.

#### 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 2760 x 2048 pixels and burn another disc.
- The total number of files and folders on the disc should be less than 999.
- 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.

## Programmed Playback

The Program function enables you to store your favorite tracks from any disc in the player memory. A program can contain 300 tracks (Audio CD/MP3/WMA).

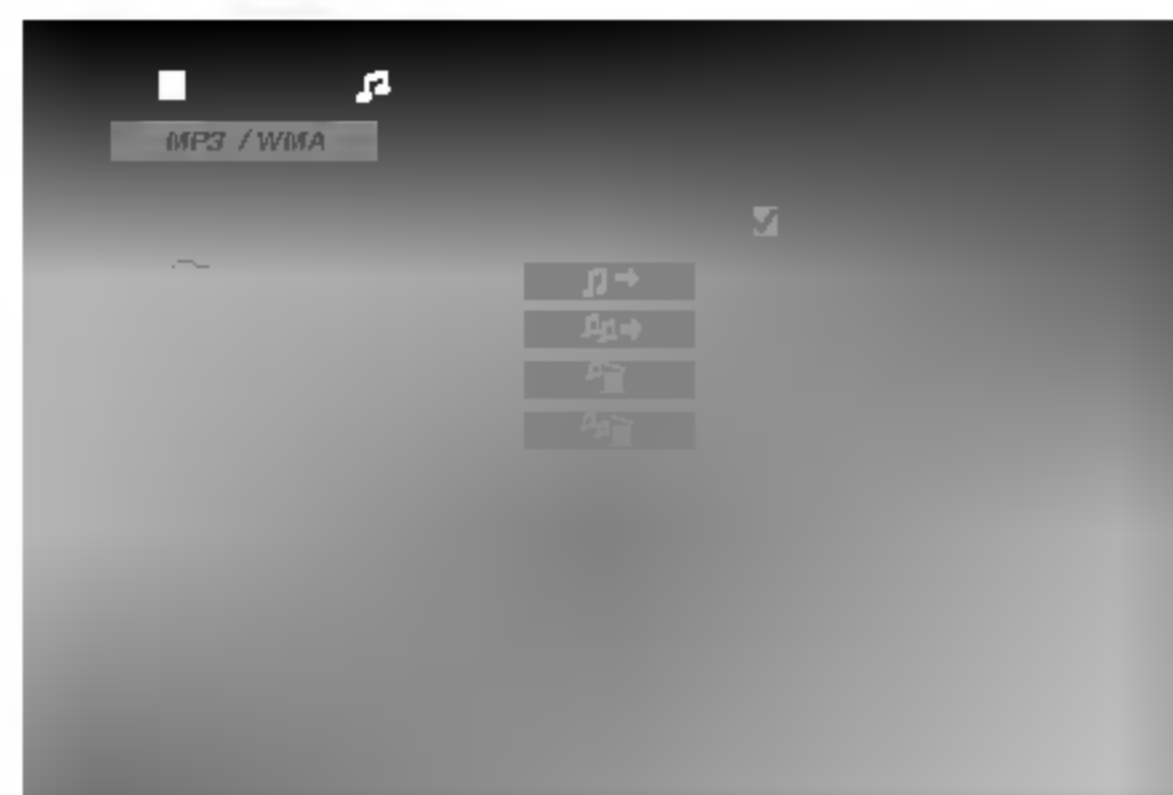
### 1 Insert a disc.

#### Audio CD and MP3/WMA Discs:

Audio CD or MP3/WMA menu appears as below.

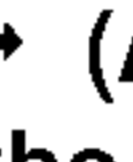


Audio CD Menu



MP3/WMA Menu

### 2 Select a track on the List.

3 Press PROG./MEMO.. Or, select “ (Add)” icon then SELECT/ENTER to place the selected track on the Program list. Repeat to place additional tracks on the list.

#### Note

You can add all tracks in the disc. Select “ (Add All)” icon then press SELECT/ENTER.

4 Select the track you want to start playing on the Program list.

#### Tip

Press MENU to move to the next page.

5 Press PLAY or SELECT/ENTER to start. Playback begins in the order in which you programmed the tracks and “PROG.” appears on the display window. Playback stops after all of the tracks on the Program list have played once.

#### Note






To resume normal playback from programmed playback, select a track of AUDIO CD (or MP3/WMA) list and then press PLAY.

### Repeat Programmed Tracks


You can play a title/chapter/all/track 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.
  - Off (No display): does not play repeatedly.

### Erasing a Track from Program List

- 1 Use  /  /  /  to select the track that you wish to erase from the Program list.
- 2 Press CLEAR. Or, select “ (Delete)” icon then Press SELECT/ENTER to place the selected track on the Program list. Repeat to erase additional tracks on the list.

### Erasing the Complete Program List

Select “ (Del all)”, then press SELECT/ENTER. The complete Program for the disc is erased.

#### Note

The programs are also cleared when the disc is removed.

## Operation with DivX Disc

The unit can play the DivX files.

- 1 Insert a disc and close the tray.**  
The DivX menu appears on the TV screen.



- 2 Press ▲ / ▼ to select a folder, and press SELECT/ENTER to see the folder contents.**

### Tip

If you are in a file list and want to return to the Folder list, use the ▲ / ▼ buttons on the remote control to highlight "■" and press SELECT/ENTER to return to the previous menu screen.

- 3 If you want to view a particular file, press ▲ / ▼ to highlight a file and press SELECT/ENTER or PLAY.**  
Playback starts.

- 4 Press STOP(■) to exit.**

### Notes

- Be sure to select "SUBTITLE ON" mode by pressing the subtitle file every time before playing a DivX file .
- When the subtitle has more than two languages in the file, original subtitle is only available.
- The DivX files in your memory card will not be able to be play.

### Display

Press DISPLAY during playback.

General playback status can be displayed on the TV screen.

### 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 20-40 characters (differs from language).
- 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 some of 1-point of the record level.**  
\* 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 subtitle file

- ".srt ", ".smi ", ".sub "

### Playable DivX file

- ".avi ", ".mpg ", ".mpeg "

### Playable Codec format

- "DIVX3.xx ", "DIVX4.xx ", "DIVX5.xx ", "XVID ", "MP43 ", "3IVX ", "MP42 "

### Playable Audio format

- "AC3 ", "DTS ", "PCM ", "MP3 ", "WMA "
  - Sampling frequency: within 32 - 48 kHz (MP3), within 24 - 48kHz (WMA)
  - Bit rate: within 32 - 320kbps (MP3), 40 - 192kbps (WMA)

## Operation with RADIO

### Presetting the radio stations

You can preset 50 stations for FM and AM.  
Before tuning, make sure that you have turned the volume down to the minimum level.

**1** Press TUNER/BAND on the remote control to show either FM or AM in the display window. Or Turn FUNCTION dial on the front panel.  
Every time you press this button, AM and FM changes alternately.

**2** Select a station you want by pressing TUN. (-/+) buttons.

#### Notes

- **Automatic Tuning**

Press TUN. (-/+) for more than 0.5 second.  
- Scanning stops when the unit tunes in a station.

- **Manual Tuning**

Press TUN. (-/+) briefly and repeatedly.

**3** Press PROG./MEMO. on the remote control.  
A preset number will flash in the display window.

**4** Press PRESET (-/+) on the remote control to select the preset number you want.

**5** Press PROG./MEMO. again.  
The station is stored.

**6** Repeat steps 1 (or 2) to 5 to store other stations.

### To clear all memorized stations

Press and hold PROG./MEMO. on the remote control for about two seconds, "CLEAR ALL" appears in the display window and then press PROG./MEMO. on the remote control, the stations are cleared.

#### For your reference

If all stations have already been entered, "FULL" message will appear in the display window for a moment and then a preset number will flash.  
To change the preset number, follow the steps 4-5 .

### To recall preset numbers

Press and hold PRESET (-/+) on the remote control until the desired preset number appears or press the button repeatedly.

### Listening to the radio

**1** Press TUNER/BAND on the remote control to show either FM or AM in the display window. Or Turn FUNCTION dial on the front panel.

The last received station is tuned in.

**2** Press PRESET (-/+) on the remote control repeatedly to select the preset station you want.  
Each time you press this button, the unit tunes in the next preset station.

**3** Adjust the volume by rotating VOLUME CONTROL KNOB (or pressing VOLUME (▼/▲) on the remote control) repeatedly.

### To listen to non-preset radio stations

- For manual tuning, see "Manual Tuning".
- For automatic tuning, see "Automatic Tuning".

### To select a preset radio station directly

You can use the number buttons on the remote control to select a preset radio station directly.  
For example, to listen to preset station 4, press 4 on the remote control. To listen to preset station 19, press 1 then 9 (within 3 seconds).

### To turn the radio off

Press POWER (⏻) to turn off the unit or select another function mode (DVD/CD, AUX or USB).

#### For your reference

- **If a FM program is noisy**  
Press MONO/ST. repeatedly so that "STEREO" disappears in the display window. There will be no stereo effect, but the reception will improve. Press MODE/RIF again to restore the stereo effect.
- **To improve reception**  
Reposition the supplied antennas.

## Operation with RADIO

### RDS Operation - OPTIONAL

This unit is equipped with RDS (Radio Data System), which brings a wide range of information to FM radio. Now in use in many countries, RDS is a system for transmitting station call signs or network information, a description of station programme type text message about the station or specifics of musical selection and the correct time.

### RDS Tuning - OPTIONAL

When a FM station is tuned in and it contains RDS data, the unit will automatically display the station's call sign and the RDS indicator will light in the Display Window as well as indicators for the RDS services programme (PS), programme type recognition (PTY), Radiotext (RT) and Clock Time (CT) if transmitted by the station.

### RDS Display Options - OPTIONAL

The RDS system is capable of transmitting a wide variety of information in addition to the initial call sign that appears when a station is first tuned. In normal RDS operation the display will indicate the station name, broadcast network or call letters. Pressing **RDS** on the front panel enables you to cycle through the various data types in the sequence:

(PS → FREQUENCY → PTY → RT → CT)

- **PS (Programme Service name)**- The name of the channel is shown in the Display Window.
- **PTY (Programme type recognition)**- The name of the programme type is shown in the Display Window.
- **RT (Radiotext)**- A "text" message contains special information from the broadcast station. Note that this message may scroll across the display to permit message.
- **CT (Time controlled by the channel)**- Enables the unit to receive the actual time and show it in the Display Window.

#### **N**ote

- Some RDS stations may not choose to include some of these additional features. If the data required for the selected mode is not being transmitted, the Display Window will show a **PTY NONE**, **RT NONE**, **CT NONE**, **PS NONE** message.

### Programme Search (PTY) - OPTIONAL

A major benefit of RDS is its ability to encode broadcasts with Programme Type (PTY) codes that indicate the type of material being broadcast. The following list shows the abbreviations used to indicate each PTY along with an explanation of the PTY.

NEWS	News
AFFAIRS	Current Affairs
INFO	Information
SPORT	Sports
EDUCATE	Educational
DRAMA	Drama
CULTURE	Culture
SCIENCE	Science
VARIED	Varied Speech Programme
POP M	Popular Music
ROCK M	Rock Music
EASY M	Easy Listening Music
LIGHT M	Classical Music
CLASSICS	Serious Classical Music
OTHER M	Other Music
WEATHER	Weather Information
FINANCE	Financial Programmes
CHILDREN	Children's Programmes
SOCIAL	Social Affairs Programmes
RELIGION	Religious Broadcasts
PHONE IN	Phone-In Programmes
TRAVEL	Travel and Touring
LEISURE	Leisure and Hobby
JAZZ	Jazz Music
COUNTRY	Country Music
NATION M	National Music
OLDIES	Oldies Music
FOLK M	Folk Music
DOCUMENT	Documentary Programmes
TEST	Station Alarm Test Message
ALARM 1	Emergency Broadcast Information

You may search for a specific Programme Type (PTY) by following these steps:

- 1** Press **TUNER/BAND** to select FM mode.
- 2** Press **PLAY (▶)** on the front panel, the display will show the last PTY in use.
- 3** Press **PLAY (▶)** repeatedly to select a desired PTY.
- 4** When the PTY is selected, press **TUN. (-/+)**. The unit will go into an automatic search mode. When a station is tuned, the search will stop.



## Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	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 unit 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 DVD display 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 so the picture from the unit appears on the TV screen.</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 into the jacks securely.</li> </ul>
	<ul style="list-style-type: none"> <li>The connected TV power is turned off.</li> </ul>	<ul style="list-style-type: none"> <li>Turn on the TV.</li> </ul>
There is no sound or only a very low-level sound is heard.	<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 so you can listen to the sound from the unit.</li> </ul>
	<ul style="list-style-type: none"> <li>The audio cables are not connected securely.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the audio cable into the jacks securely.</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 connecting cord is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>Replace it with new one.</li> </ul>
The playback picture is poor.	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>
The unit does not start playback.	<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 DVD display is lit.)</li> </ul>
	<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 disc is placed upside down.</li> </ul>	<ul style="list-style-type: none"> <li>Place the disc with the playback side down.</li> </ul>
	<ul style="list-style-type: none"> <li>The disc is not placed within the guide.</li> </ul>	<ul style="list-style-type: none"> <li>Place the disc on the disc tray correctly inside the guide.</li> </ul>
	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>
	<ul style="list-style-type: none"> <li>A menu is on the TV screen.</li> </ul>	<ul style="list-style-type: none"> <li>Press the SET-UP button to turn off the menu screen.</li> </ul>
Severe hum or noise is heard.	<ul style="list-style-type: none"> <li>The plugs and jacks are dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Wipe them with a cloth slightly moistened with alcohol.</li> </ul>
	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>
	<ul style="list-style-type: none"> <li>The speakers and components are connected poorly.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the speakers and components securely.</li> </ul>
	<ul style="list-style-type: none"> <li>The unit is located with too close to the TV.</li> </ul>	<ul style="list-style-type: none"> <li>Move your TV away from the audio components.</li> </ul>
Radio stations cannot be tuned in.	<ul style="list-style-type: none"> <li>The antenna is positioned or connected poorly.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the antenna securely.</li> <li>Adjust the antennas and connect an external antenna if necessary.</li> </ul>
	<ul style="list-style-type: none"> <li>The signal strength of the stations is too weak (when tuning in with automatic tuning).</li> </ul>	<ul style="list-style-type: none"> <li>Tune in the station manually.</li> </ul>
	<ul style="list-style-type: none"> <li>No stations have been preset or preset stations have been cleared (when tuning by scanning preset stations).</li> </ul>	<ul style="list-style-type: none"> <li>Preset the stations.</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 of the unit.</li> </ul>	<ul style="list-style-type: none"> <li>Point the remote control at the remote sensor of the unit.</li> </ul>
	<ul style="list-style-type: none"> <li>The remote control is too far from the unit.</li> </ul>	<ul style="list-style-type: none"> <li>Operate the remote control within about 23 ft (7 m).</li> </ul>
	<ul style="list-style-type: none"> <li>There is an obstacle in the path of the remote control and the unit.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the obstacle.</li> </ul>
	<ul style="list-style-type: none"> <li>The batteries in the remote control are exhausted.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the batteries with new ones.</li> </ul>
The sound mode or Pro Logic II mode cannot be changed.	<ul style="list-style-type: none"> <li>The system cannot change while playing a MP3 or WMA disc.</li> </ul>	<ul style="list-style-type: none"> <li>Insert such a CD disc.</li> </ul>



## Language Code List

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	Finnish	7073	Macedonian	7775	Slovenian	8376
Afar	6565	French	7082	Malagasy	7771	Somali	8379
Afrikaans	6570	Galician	7176	Malay	7783	Spanish	6983
Albanian	8381	Georgian	7565	Malayalam	7776	Sudanese	8385
Ameharic	6577	German	6869	Maltese	7784	Swahili	8387
Arabic	6582	Greek	6976	Maori	7773	Swedish	8386
Armenian	7289	Greenlandic	7576	Marathi	7782	Tagalog	8476
Assamese	6583	Guarani	7178	Moldavian	7779	Tajik	8471
Azerbaijani	6590	Gujarati	7185	Mongolian	7778	Tamil	8465
Bashkir	6665	Hausa	7265	Nauru	7865	Tatar	8484
Basque	6985	Hebrew	7387	Nepali	7869	Telugu	8469
Bengali; Bangla	6678	Hindi	7273	Norwegian	7879	Thai	8472
Bhutani	6890	Hungarian	7285	Oriya	7982	Tibetan	6679
Bihari	6672	Icelandic	7383	Panjabi	8065	Tigrinya	8473
Breton	6682	Indonesian	7378	Pashto, Pushto	8083	Tonga	8479
Bulgarian	6671	Interlingua	7365	Persian	7065	Turkish	8482
Burmese	7789	Irish	7165	Polish	8076	Turkmen	8475
Byelorussian	6669	Italian	7384	Portuguese	8084	Twi	8487
Cambodian	7577	Japanese	7465	Quechua	8185	Ukrainian	8575
Catalan	6765	Javanese	7487	Rhaeto-Romance	8277	Urdu	8582
Chinese	9072	Kannada	7578	Rumanian	8279	Uzbek	8590
Corsican	6779	Kashmiri	7583	Russian	8285	Vietnamese	8673
Croatian	7282	Kazakh	7575	Samoan	8377	Volapük	8679
Czech	6783	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Danish	6865	Korean	7579	Scots Gaelic	7168	Wolof	8779
Dutch	7876	Kurdish	7585	Serbian	8382	Xhosa	8872
English	6978	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Esperanto	6979	Latin	7665	Shona	8378	Yoruba	8979
Estonian	6984	Latvian, Lettish	7686	Sindhi	8368	Zulu	9085
Faroese	7079	Lingala	7678	Singhalese	8373		
Fiji	7074	Lithuanian	7684	Slovak	8375		

## Country Code List

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	BO	Greece	GR	Nepal	NP	South Korea	KR
Brazil	BR	Greenland	GL	Netherlands	NL	Spain	ES
Cambodia	KH	Islands	HM	Dutch 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 supply	Refer to the main label.
Power consumption	80 W
Mass	4.2 kg
External dimensions (W x H x D)	187 X 255 X 257 mm

### Tuner/Amplifier

FM Tuning Range	87.5 - 108.0 MHz or 65 -74 MHz, 87.5 -108.0 MHz
Intermediate Frequency	10.7 MHz
Signal to Noise Ratio	60/55 dB (Mono/Stereo)
Frequency Response	60 - 10000 Hz
AM Tuning Range	522 - 1620 kHz or 520 - 1720 kHz
Intermediate Frequency	450 kHz
Signal to Noise Ratio	34 dB
Frequency Response	120 - 1800 Hz
Output Power	Front: 80 W + 80 W (6Ω, THD 10 %), Center: 30 W (4Ω, THD 10%) Rear: 30 W + 30 W (4Ω, THD 10 %)
T.H.D	0.5 %
Frequency Response	40 - 20000 Hz
Signal-to-noise ratio	80 dB

### DVD/VCD/CD player

Frequency response (audio)	40 - 20000 Hz
Signal-to-noise ratio (audio)	More than 75 dB (1 kHz)
Signal-to-noise ratio (video)	More than 55 dB (1 kHz)
Dynamic range (audio)	More than 80 dB
Video output	1.0 V (p-p), 75 Ω
S-video output	(Y) 1.0 V (p-p), 75 Ω (C) 0.3 V (p-p), 75 Ω
Component Video output	(Y) 1.0 V (p-p), 75 Ω (Pb)/(Pr) 0.7 V (p-p), 75 Ω

### Speakers

Speaker Name	Front Speaker (L/R)	Center Speaker	Rear Speaker (L/R)
Type	Bass Reflex 3Way 4Speaker	Bass Reflex 1Way 1Speaker	Bass Reflex 1Way 1Speaker
Impedance	6 Ω	4 Ω	4 Ω
Frequency Response	60 - 20000 Hz	150 - 20000 Hz	150 - 20000 Hz
Sound Pressure Level	82 dB/W (1m)	84 dB/W (1m)	84 dB/W (1m)
Rated Input Power	80 W	30 W	30 W
Max. Input Power	160 W	60 W	60 W
Net Dimensions (W x H x D)	162 X 320 X 258 mm	135 X 98 X 86 mm	135 X 98 X 86 mm
Net Weight	4.0 kg	0.62 kg	0.62 kg



P/NO : 3834RH0106F