



# STYLISH DVD MICRO HI-FI SYSTEM

## OWNER'S MANUAL

**MODEL : LX-D2640**

(LX-D2640A/D/X, LX-DP2640A, LXS-D2640V)



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:** TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



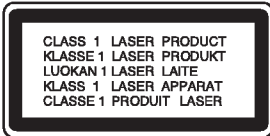
This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

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



**CAUTION:**

This unit employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference should the unit require maintenance, contact an authorized service location (see service procedure).

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

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

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



**NOTES ON 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.

**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. \_\_\_\_\_





# Table of Contents

## INTRODUCTION

<b>Safety Precautions</b> .....	<b>2</b>
<b>Table of Contents</b> .....	<b>3</b>
<b>Before Use</b> .....	<b>4-5</b>
Playable Discs .....	4
Precautions .....	5
Notes on Discs .....	5
About Symbols .....	5
<b>Front Panel</b> .....	<b>6</b>
<b>Rear Panel</b> .....	<b>7</b>
<b>Remote Control</b> .....	<b>8</b>
<b>Display Window</b> .....	<b>9</b>

## Preparation




<b>Connections</b> .....	<b>10-14</b>
Fitting the system connection cables .....	10
Connecting to Antenna .....	11
Connecting to a TV .....	12
Connecting to Auxiliary Equipment .....	13
Connecting to Optional Equipment .....	13
Speaker System Connection .....	14
<b>Before Operation</b> .....	<b>15-24</b>
Volume Adjustment .....	15
MUTE .....	15
Sound Quality Adjustment .....	15
SURROUND .....	15
XDSS (Extreme Dynamic Sound System) .....	15
OAO (Orientation Acoustic Optimizer) ON/OFF .....	15
DIMMER .....	15
Setting the Clock .....	16
Sleep Timer Function .....	16
Using Microphone (OPTIONAL) .....	16
Timer Function .....	17
Mini Glossary for Audio Stream & Surround Mode .....	18
Sound Mode .....	18
General Explanation .....	19
On-Screen Display .....	19
Initial Settings .....	20-24
• General Operation .....	20
• LANGUAGE .....	20
• DISPLAY .....	21
• AUDIO .....	22-23
• OTHERS .....	23
• LOCK (Parental Control) .....	24

## Operation

<b>Operation with RADIO</b> .....	<b>25-26</b>
Presetting the radio stations .....	25
Listening to the radio .....	25
RDS Function - OPTIONAL .....	26
• About RDS .....	26
• Programme Search (PTY) .....	26
<b>Operation with TAPE</b> .....	<b>27</b>
Basic Playback .....	27
To Stop Play .....	27
Tape Counter Reset .....	27
To Play Rewind or Fast Forward .....	27
Recording from Radio, CD or Auxiliary source .....	27
CD- Synchro Recording .....	27

<b>Operation with DVD and Video CD</b> .....	<b>28-30</b>
Playing a DVD and Video CD .....	28
General Features .....	28-30
• Moving to another TITLE .....	28
• Moving to another CHAPTER/TRACK .....	28
• Search .....	28
• Still Picture and Frame-by-Frame Playback .....	29
• Slow Motion .....	29
• Repeat .....	29
• Repeat A-B .....	29
• Time Search .....	29
• Last Scene Memory .....	29
• Zoom .....	30
• Marker Search .....	30
Special DVD Features .....	30
• Title Menu .....	30
• Disc Menu .....	30
• Camera Angle .....	30
• Changing the Audio Language .....	30
• Changing the Audio Channel .....	30
• Subtitles .....	30
<b>Operation with Audio CD and MP3/WMA Disc</b> .....	<b>31-32</b>
Playing an Audio CD and MP3/WMA Disc .....	31
• Pause .....	32
• Moving to another Track .....	32
• Repeat Track/ All/ Off .....	32
• Search .....	32
<b>Operation with JPEG Disc</b> .....	<b>33</b>
Viewing a JPEG disc .....	33
• Slide Show .....	33
• Moving to another File .....	33
• Still Picture .....	33
<b>Programmed Playback</b> .....	<b>34</b>
• Repeat Programmed Tracks .....	34
• Erasing a Track from Program List .....	34
• Erasing the Complete Program List .....	34
<b>Operation with DivX Disc</b> .....	<b>35</b>
<b>Reference</b> .....	<b>36</b>
<b>Troubleshooting</b> .....	<b>36</b>
<b>Language Code List</b> .....	<b>37</b>
<b>Country Code List</b> .....	<b>38</b>
<b>Specifications</b> .....	<b>39</b>




## 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, Kodak PICTURE CD, 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 “2” encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled “2” 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

### 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.

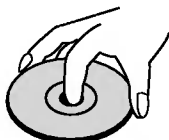
##### To obtain a clear picture

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.

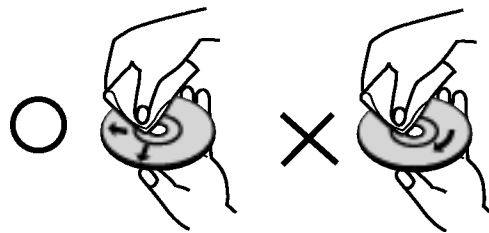


#### Storing discs

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

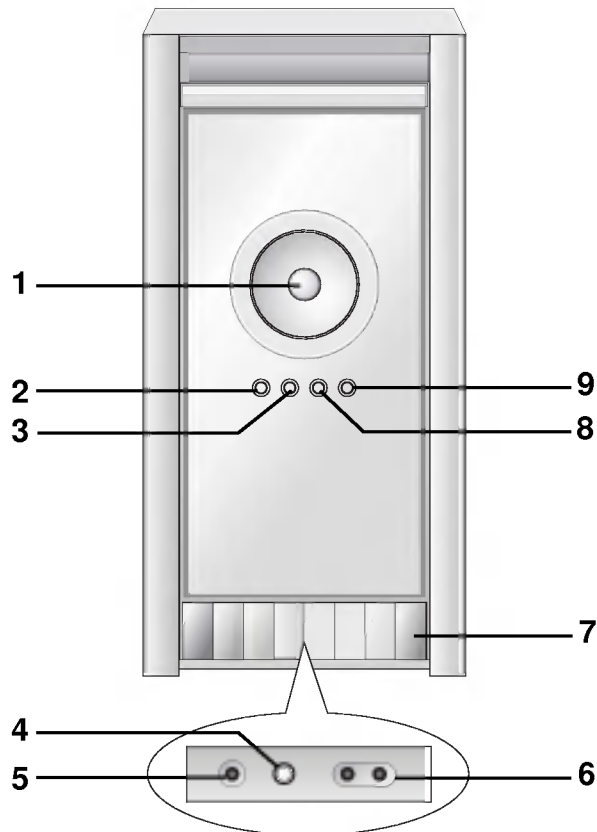
A section whose title has one of the following symbol is applicable only to the disc represented by the symbol.

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



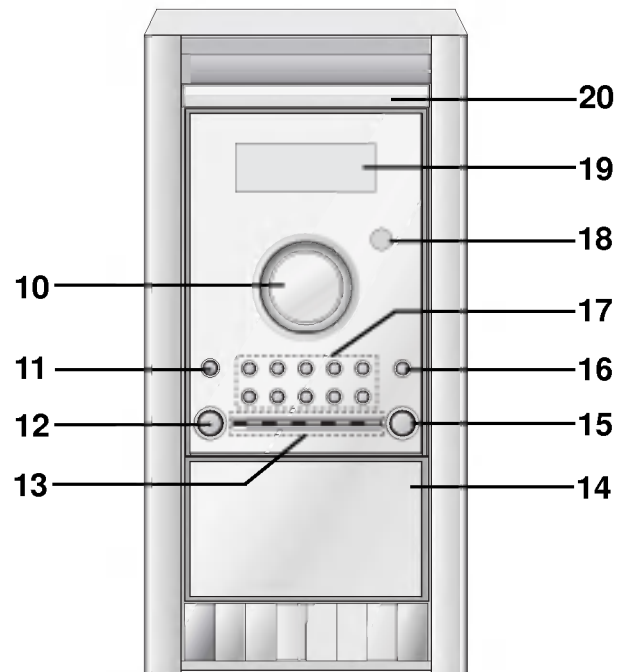
## Front Panel

### Amplifier



1. POWER (⏻ STANDBY/ON) button
2. TUNER/BAND button
3. DVD button
4. MIC VOLUME KNOB (MIC VOL.) : OPTIONAL
5. HEADPHONE SOCKET (🎧 PHONES) -  $\phi$  3.5mm
6. MIC JACKS (MIC1, MIC2) : OPTIONAL
7. ▲ PUSH EJECT position
8. TAPE button
9. AUX button
10. VOLUME knob
11. CD PAUSE (⏸)/STEP button
12. OAO button
13. • CD SKIP (⏮/⏭), TAPE REWIND/ FAST FORWARD (⏮/⏭), TUNING (-/+ ) buttons
  - TAPE REVERSE PLAY (⏪) button
  - PLAY (▶) button
  - PRESET (-/+) buttons
  - STOP (■)/CLEAR button

### Tuner/Cassette tape player/ DVD/VCD/CD player

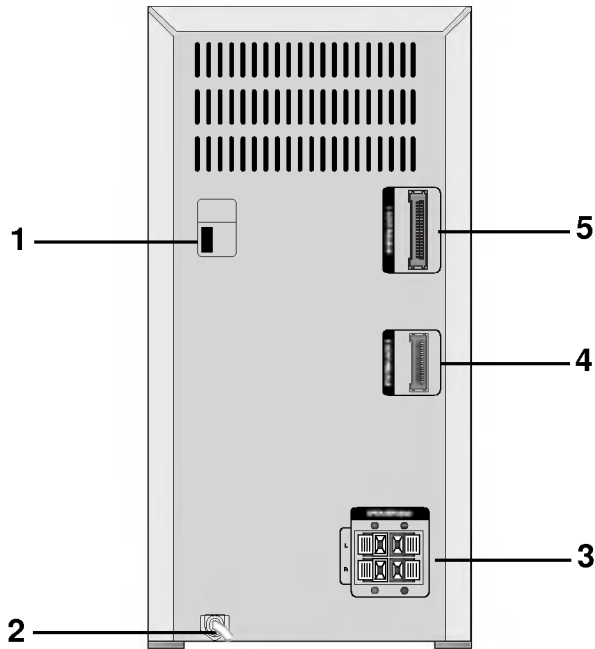


14. ▲ PUSH EJECT button
15. XDSS button
16. OPEN/CLOSE (▲) button
17. • EQUALIZER (EQ) button
  - PLAY MODE button
  - PROGRAM/MEMORY button
  - CLOCK button
  - TIMER button
  - SET/COUNT. RESET/RDS (OPTIONAL) button
  - CD SYNCHRO RECORDING (CD SYNC.) button
  - RECORD/ RECORD PAUSE (●REC/⏸) button
  - MODE/RIF button
  - REPEAT button
18. REMOTE SENSOR
19. DISPLAY WINDOW
20. CD TRAY

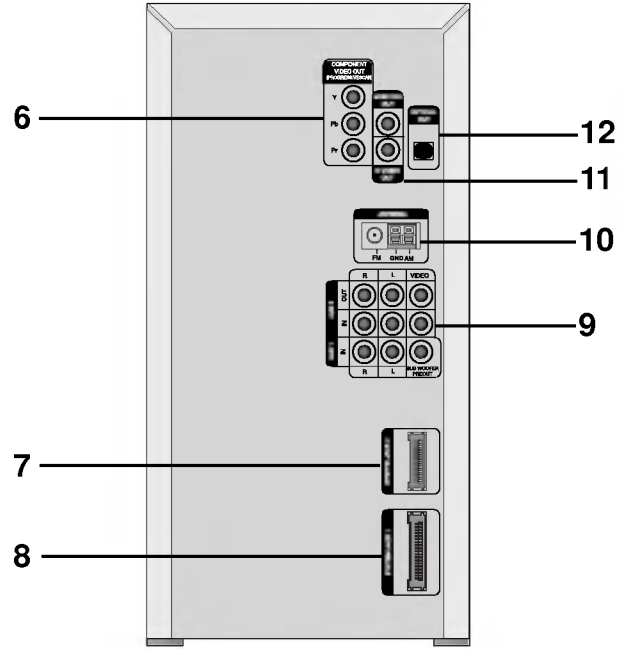


# Rear Panel

## Amplifier



## Tuner/Cassette tape player/ DVD/VCD/CD player



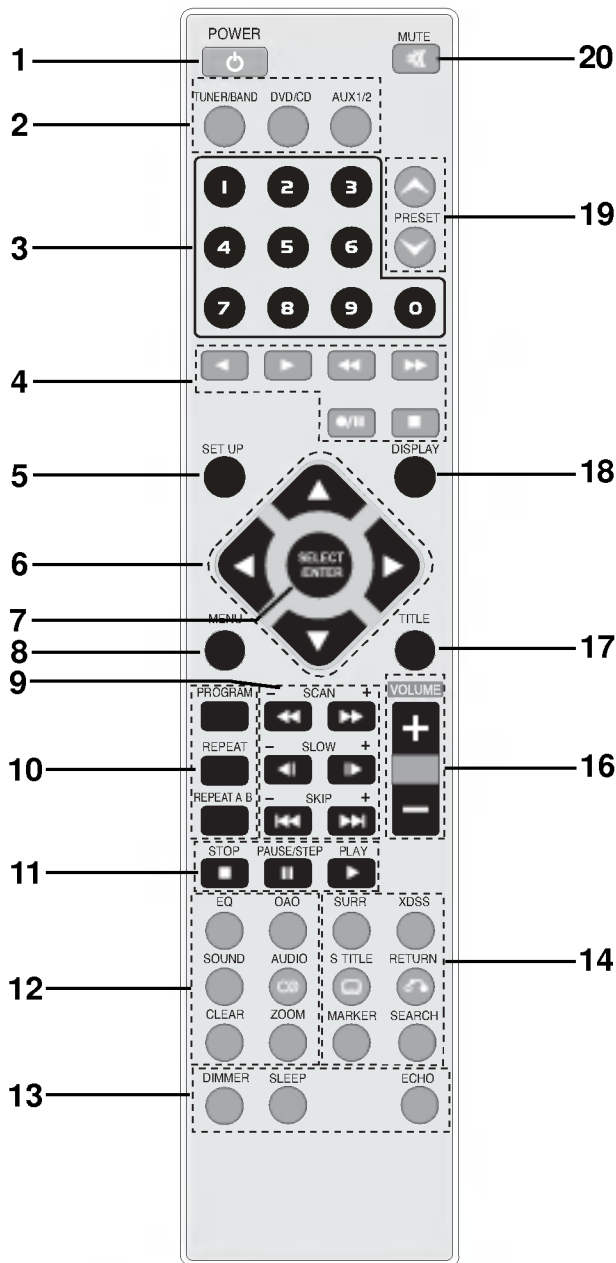
INTRODUCTION

- 1. VOLTAGE SELECTOR (OPTIONAL)
- 2. POWER CORD
- 3. SPEAKER Connector
- 4. SYSTEM Connector (SYSTEM JACK2)
- 5. SYSTEM Connector (SYSTEM JACK1)
- 6. COMPONENT VIDEO OUT (Y Pb Pr) Jack
- 7. SYSTEM Connector (SYSTEM JACK2)
- 8. SYSTEM Connector (SYSTEM JACK1)

- 9. • VIDEO INPUT/OUTPUT  
• AUX 1 INPUT (L/R)  
• AUX 2 INPUT/OUTPUT (L/R)  
• SUB WOOFER OUTPUT
- 10. FM/AM ANTENNA Connector
- 11. • MONITOR OUT Connector  
• S-VIDEO OUT Connector
- 12. OPTICAL OUT Connector



# Remote Control



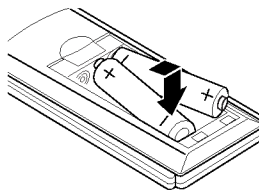
1. POWER button
2. FUNCTION SELECT buttons (TUNER/BAND, DVD/CD, AUX1/2)
3. NUMERIC buttons (0-9)
4. TAPE FUNCTION buttons
  - REVERSE PLAY (◀: optional)
  - PLAY (▶)
  - REWIND/ FAST FORWARD PLAY (◀◀/▶▶)
  - RECORD/ RECORD PAUSE (●/||)
  - TAPE STOP (■)
5. SET UP button
6. ARROW buttons (For use in highlighting a selection on a GUI menu screen, TITLE and MENU screen.)
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. PROGRAM/ REPEAT/ REPEAT A-B buttons
11. STOP (■), PAUSE/STEP, PLAY (▶) buttons
12. EQUALIZER (EQ)/ OAO/ SOUND/ AUDIO/ CLEAR / ZOOM buttons
13. DIMMER/ SLEEP/ ECHO buttons
14. SURROUND (SURR.)/ XDSS/ SUBTITLE (S-TITLE) RETURN / MARKER/ SEARCH buttons
15. VOLUME +/- buttons
16. TITLE button (Use the TITLE button to display the title screen included on DVD video discs.)
17. DISPLAY button
18. PRESET (▼/▲) buttons
19. 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



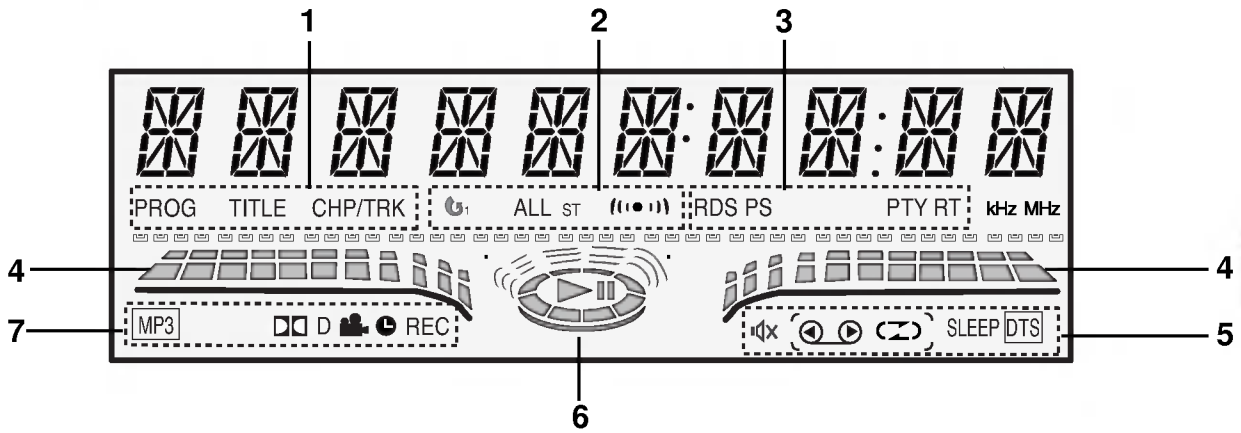
Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with ⊕ and ⊖ aligned correctly.

### ⚠ Caution

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



# Display Window



- |  |  |
|--|--|
| <p>1. • PROGRAM (PROG) indicator<br/>• TITLE indicator<br/>• CHAPTER/ TRACK (CHP/TRK) indicator</p> <p>2. • REPEAT indicator<br/>• FM STEREO RECEIVING indicator</p> <p>3. RDS indicator : OPTIONAL</p> <p>4. LEVEL indicator</p> <p>5. • MUTE indicator<br/>• TAPE REVERSE PLAY indicator : OPTIONAL<br/>• TAPE PLAY indicator<br/>• PLAY MODE indicator : OPTIONAL<br/>• SLEEP indicator<br/>• DTS indicator</p> | <p>6. PLAY/PAUSE indicator</p> <p>7. • MP3 indicator<br/>• DOLBY DIGITAL indicator<br/>• TIMER indicator<br/>• RECORDING indicator<br/>• ANGLE indicator</p> |
|--|--|



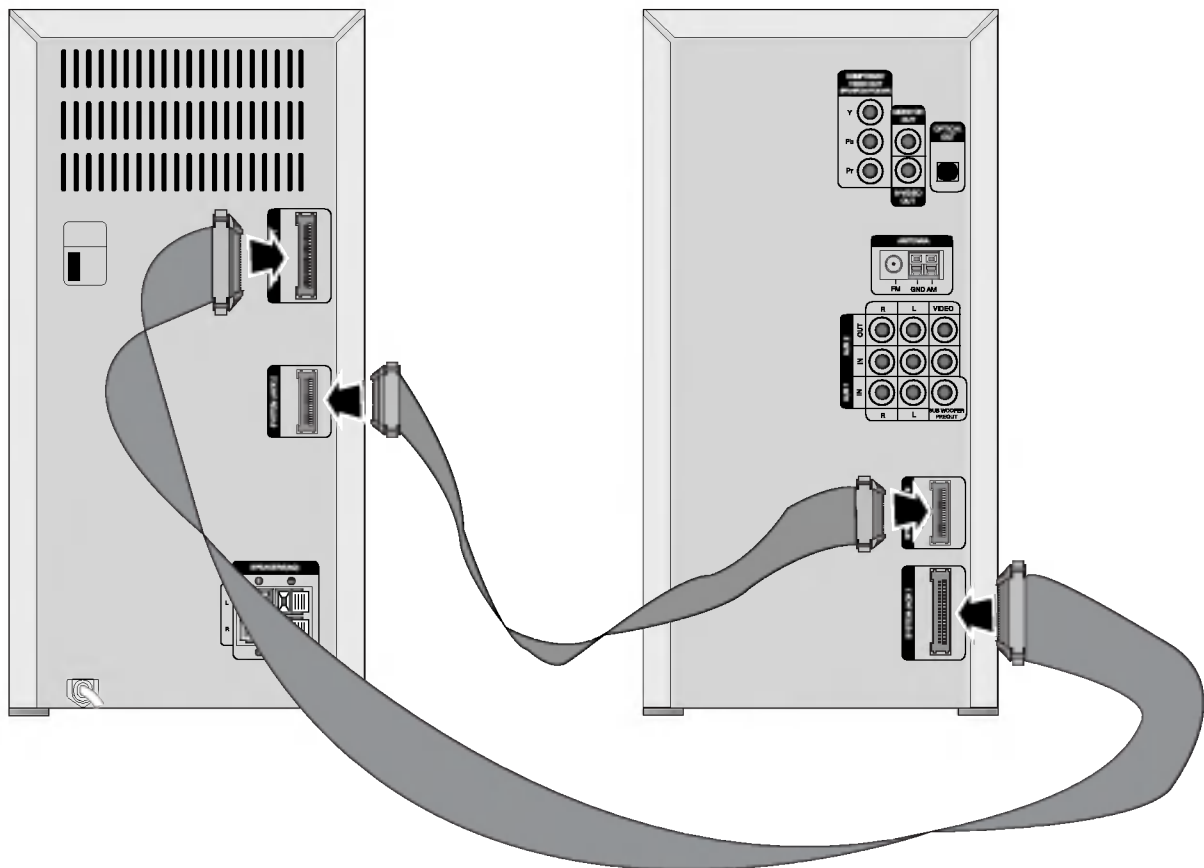
## Connections

### Fitting the system connection cables

- Your unit consists of two separate parts, Tuner/Cassette tape player/DVD/VCD/CD player and an integrated Amplifier.
- Before you can use your unit, the separate parts must be connected with the supplied system connection cables.
- Make sure that all connections are made with your unit unplugged from the mains supply.

#### Amplifier

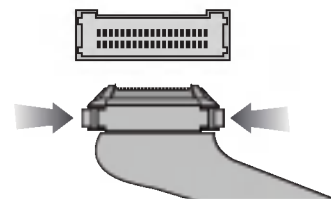
#### Tuner/Cassette tape player/ DVD/VCD/CD player



- 1** Stack the parts of your unit in the order shown above.  
Position your unit so that you have easy access to the rear of it.
- 2** Connect the SYSTEM JACK1 on the Tuner/Cassette tape player/DVD/VCD/ CD player to the SYSTEM JACK1 connector on the Amplifier.
- 3** Connect the SYSTEM JACK2 connector on the Tuner/Cassette tape player/DVD/VCD/CD player to the SYSTEM JACK2 connector on the Amplifier.

#### **N**otes

- The system connection cables will only connect and should 'click' into place, do not try to force them.
- If you need to unplug the system connection cables, squeeze both sides of each plug before pulling it out - this will 'unlock' the plug and allow it to be released.



- Don't disconnect the system connection cables during the operation of the unit.



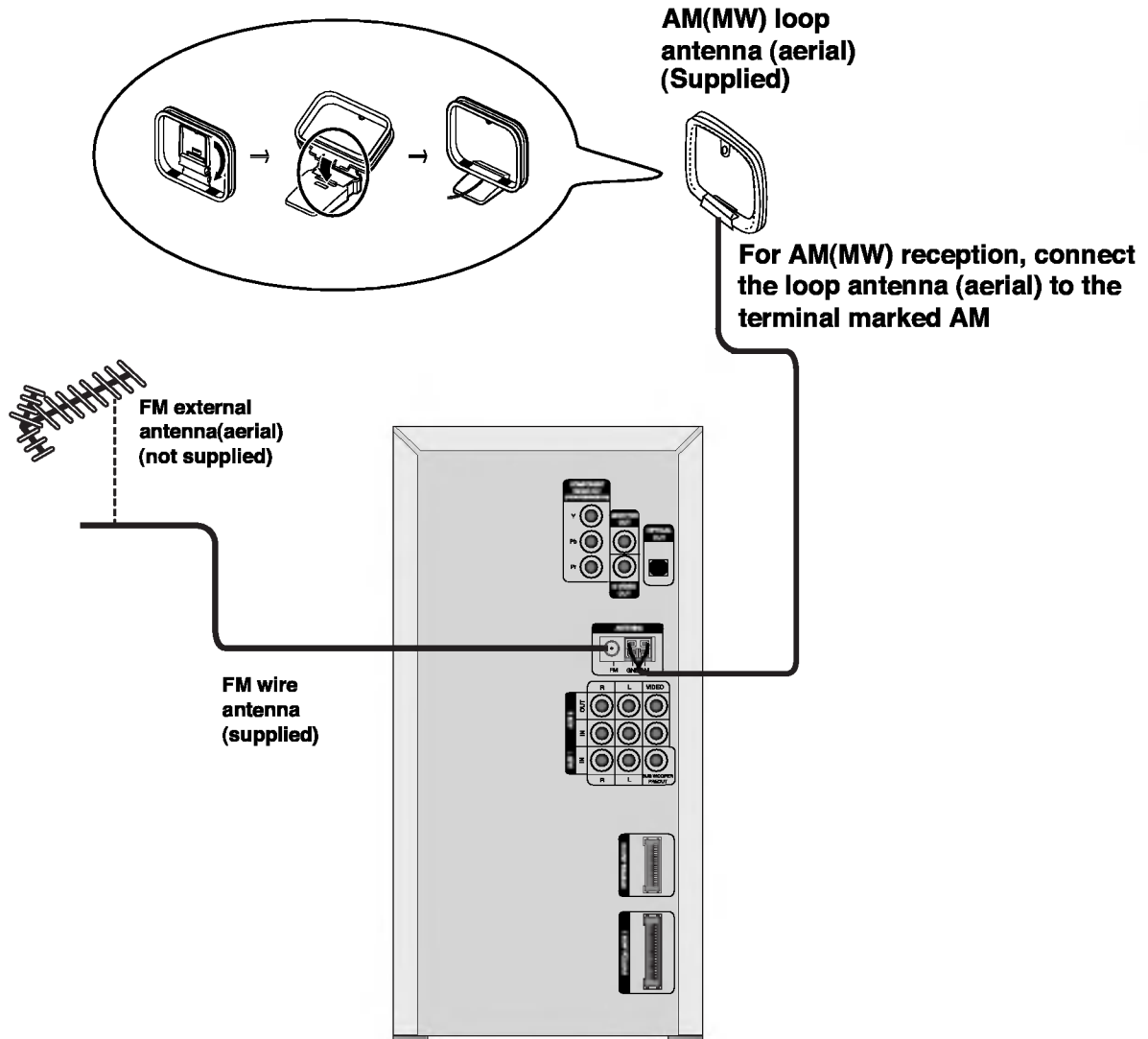
## Connections

### 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.

PREPARATION



### 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.



# 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 OUT jacks from the unit to the corresponding in jacks on the TV using an Y Pb Pr cable (C).

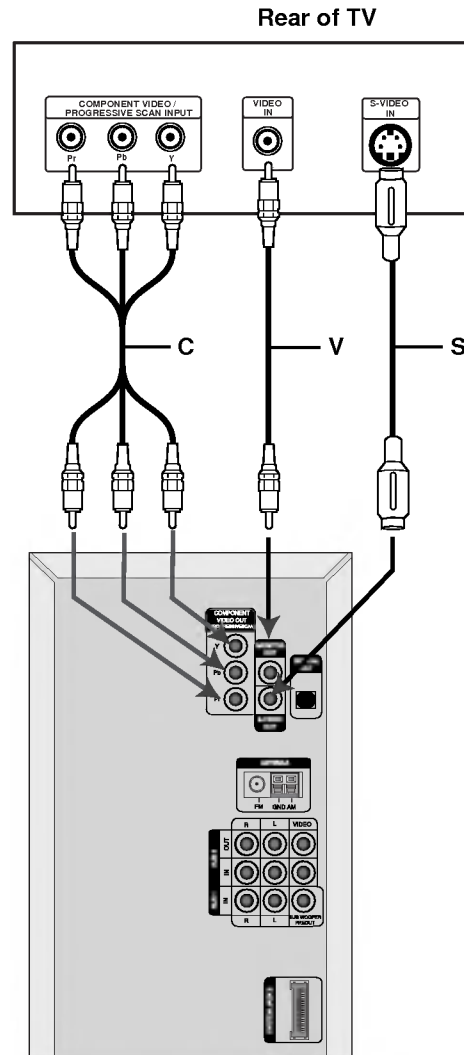
### Progressive Scan (ColorStream® pro) connection

- 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 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 20.



Tuner/Cassette tape player/DVD/VCD/CD player

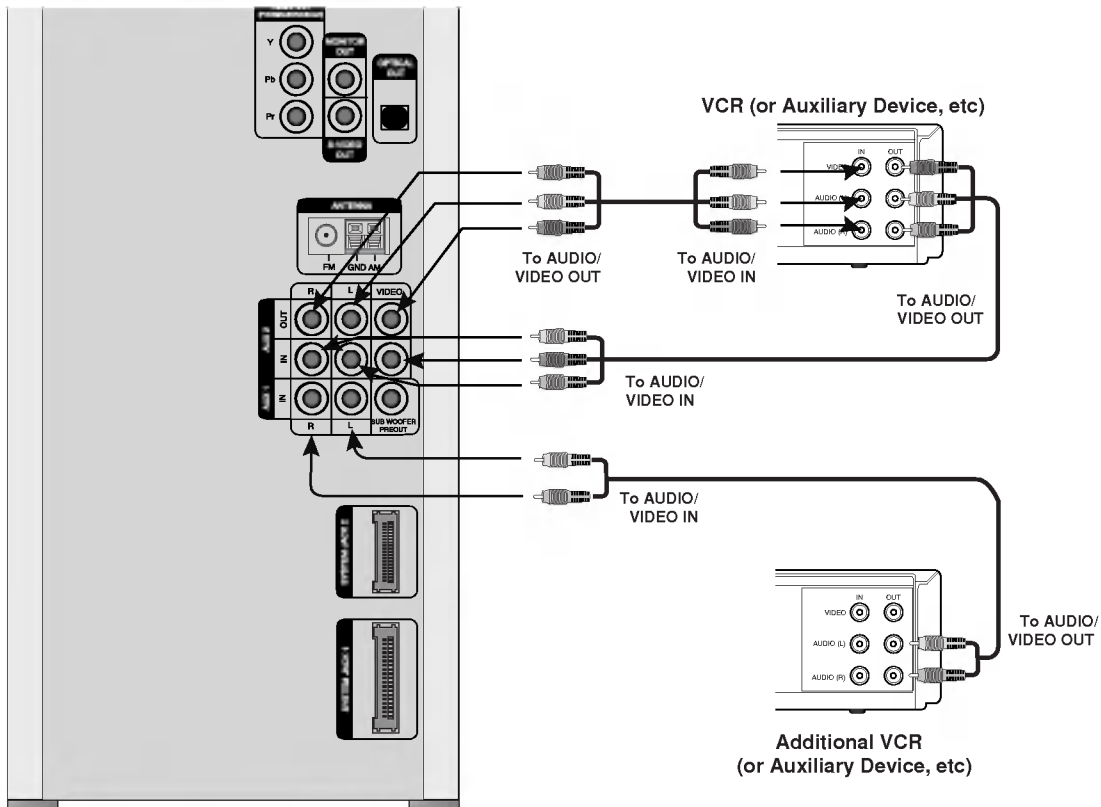


# Connections

## Connecting to Auxiliary Equipment

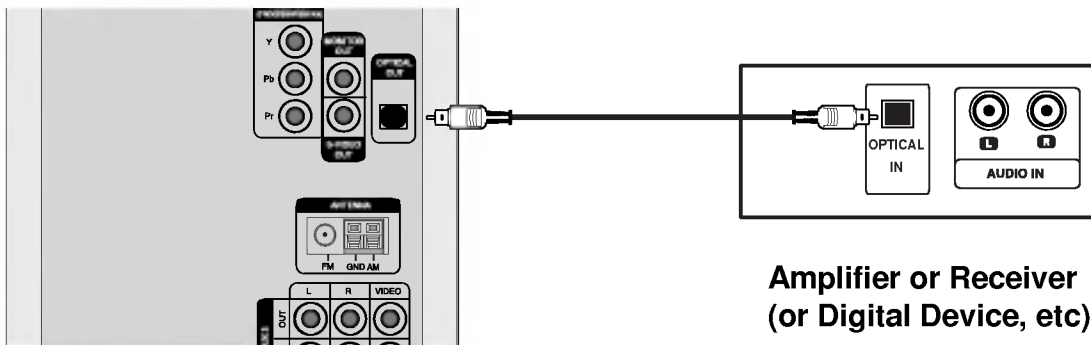
You can use VCR or other unit connected to the AUX1, AUX2 connector.

- 1 Connect a VCR or auxiliary device, etc to the AUX 1 connector.
- 2 Connect a additional VCR or auxiliary device, etc to the AUX 2 connector.
- 3 Select AUX1 or AUX2 pressing the AUX button on the Tuner/ Amplifier or the AUX1/2 button on the remote control.



## Connecting to Optional Equipment

Connect the OPTICAL OUT connector of this unit to the corresponding in jack on your Amplifier or Receiver.



### Note

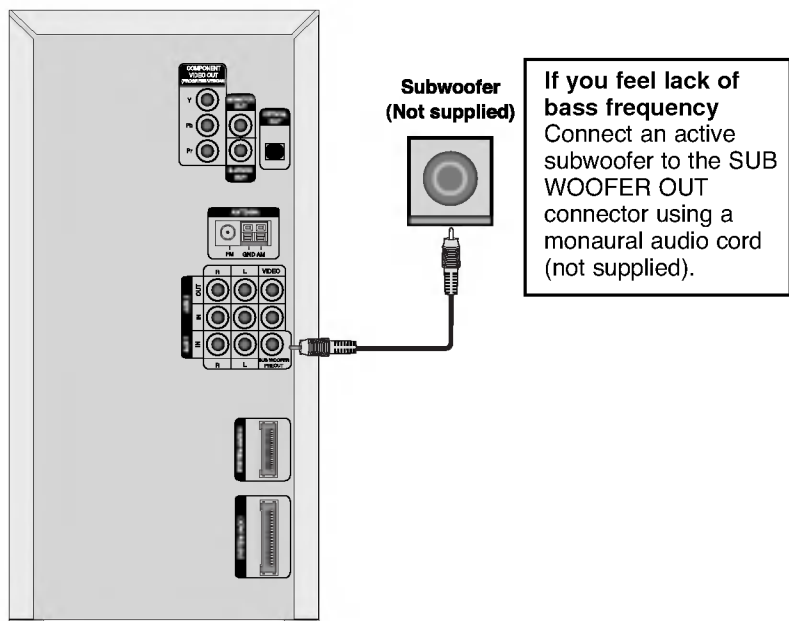
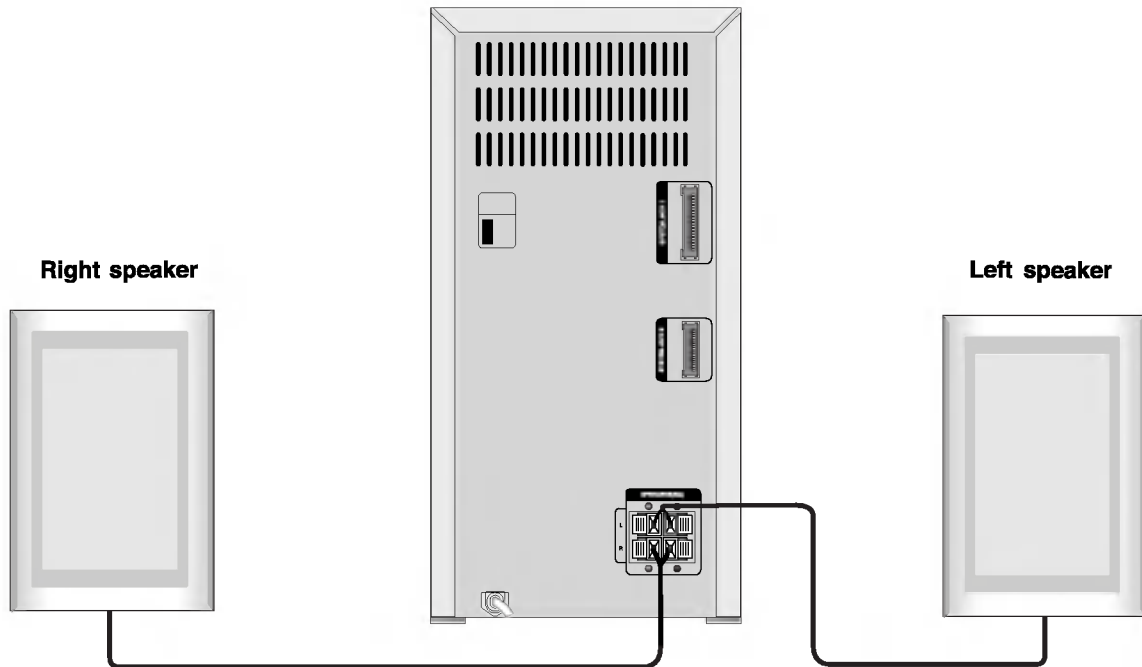
If the audio format of the digital output does not match the capabilities of your unit, the receiver will produce a strong, distorted sound or no sound at all.



## Connections

### Speaker System Connection

Connect the speakers using the supplied speaker cords.



### **N**otes

- 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.
- Do not disassemble the front cover of supplied speaker.




## Before Operation

### Volume Adjustment

- Turn VOLUME knob clockwise to increase the sound level, or counterclockwise to decrease it.
- Use VOLUME + to increase the sound level, or use VOLUME - to decrease it on the remote control.

### MUTE

Press MUTE to turn off the sound, press again to restore.

You can mute your unit in order, for example, to answer the telephone,  flashes in the display window.

### Sound Quality Adjustment

#### • **T** activate stereo sound

You can choose between 4 fixed sound impressions. Select a desired sound mode using the EQUALIZER (EQ).

FLAT	: Linear frequency response
ROCK	: More bass, more treble
POP	: Less bass, less treble
CLASSIC	: For orchestral music

#### • **H** Headphone Jack

Connect a stereo headphone plug (∅3.5mm) into the headphone jack.

The speakers are automatically disconnected when you plug in the headphones (not supplied).

### SURROUND

#### To activate surround mode

Press SURROUND (SURR.) to reinforce surround effect.

SURROUND ON ↔ SURROUND OFF

### XDSS (Extreme Dynamic Sound System)

Press XDSS to reinforce treble and bass.

- The "XDSS ON" indicator lights up.

To cancel it press XDSS again.

- The "XDSS OFF" indicator lights up.

### OAD (Orientation Acoustic Optimizer) ON/OFF

Press OAD to reinforce the bass sound.

The "OAD ON" or "OAD OFF" indicator lights. To cancel, press OAD again.

### DIMMER

This function is darkened the display window by half in power-on status. Press DIMMER on the remote control once, and the display is darkened, and if you press it once more, the display will darken by half too. To cancel it press the button again.



## Before Operation

### Setting the Clock

- 1 Press CLOCK.**  
(If the clock requires setting, press and hold **CLOCK** for more than 2 seconds.)  
- The hours display begins to blink.
- 2 Select either the 12 hour cycle or the 24 hour cycle by PRESET (-/+) on the front panel.**  

▲▲▲▲▲▲▲▲	▲▲▲▲▲▲
AM 12:00	0000
(12HR)	or (24HR)
- 3 Press SET to confirm the selected hour cycle.**
- 4 Use PRESET (-/+) to set the current hour.**
- 5 Press SET.**
- 6 Use PRESET (-/+) to set current minutes.**
- 7 Press SET and the correct time is shown on the display.**
- 8 Press CLOCK at any time to show the time on the display, for about 5 seconds.**

### Sleep Timer Function

When the sleep timer is set, the unit automatically turns off after the specified time has elapsed.

- 1 To specify the time delay before the power is turned off, press SLEEP.**  
In the display window you can see *SLEEP 180* for about 5 seconds. This means that the system turns off automatically after 180 minutes.
- 2 Each time you press SLEEP the setting changes in the following order.**  
SLEEP 180 → 150 → 120 → 90 → 80 → 70 → 60 → 50 → 40 → 30 → 20 → 10 → OFF → SLEEP 180...
- 3 To check the remaining time until the power is turned off.**  
While the sleep function is active press **SLEEP** briefly. The time remaining until the unit turns off is displayed for about 5 seconds.

#### Note

If you press **SLEEP** while the sleep time is displayed, the SLEEP time is reset.

### To cancel Sleep Timer setting

If you wish to stop the function, press the **SLEEP** button repeatedly until "*SLEEP 10*" appears, and then press **SLEEP** once again after "*SLEEP 10*" shows on the display window.

### Using Microphone (OPTIONAL)

You can sing to a music source by connecting a microphone to the unit.

- 1 Connect your microphone to the MIC socket.**  
"ECHO-OFF" will be shown in the display window.
- 2 Play a music you want.**
- 3 Sing along with the accompaniment.**  
Adjust the microphone volume by turning MIC VOLUME KNOB.

#### For your reference

You can record during using microphone. Refer to the "Recording" explanation section.

#### Note

- When not using the microphone, set the MIC volume knob to minimum or turn off the MIC and remove the microphone from the MIC socket.
- If the microphone is set too near the speaker, a howling sound may be produced. In this case, move the microphone away from the speaker or decrease the sound level by using the MIC volume control.
- If sound through the microphone is extremely loud, it may be distorted. In this case, turn the MIC volume control toward minimum.

### To Adjust ECHO Volume

You can give an echo effect to the sound from the microphones.

You can give an echo effect to the sound from the microphones.

**Press the ECHO repeatedly.**

ECHO - OFF → ECHO - 1 → ECHO - 2 → ECHO - 3





## Before Operation

### Timer Function

With the TIMER function you can have the radio reception and recording, CD or tape playing 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-CD-TAPE 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 "⊙" indicators appear in the display.

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

**4** 1. a. When you select **TUNER** function, 'PLAY' and 'REC' indicator flash in the display window alternately for about 3 seconds.

'PLAY' indicator : TUNER play only

'REC' indicator : TUNER play and recording

b. Press **SET** when the desired function flashes.

c. Select the previous memorized preset number with **PRESET (-/+)** on the remote control and press **SET**.

'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.

2. When you select **CD** or **TAPE** function, 'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.

**5** Set the turn on hour pressing **PRESET (-/+)**.

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

**7** Set the turn on minutes time pressing **PRESET (-/+)**.

**8** Press **SET** 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 turn off hour time pressing **PRESET (-/+)**.

**10** Press **SET**.

**11** Set the turn off minutes pressing **PRESET (-/+)**.

**12** Press **SET**.

**13** Adjust the volume level pressing **PRESET (-/+)**.

**14** Press **SET**.

"⊙" appear 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 the disc is inserted the DVD,VCD or MP3 except audio CD on the unit, the timer function plays 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 "Dolby Digital" 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.

#### **BYPASS**

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

### **Sound Mode** **DVD** **VCD** **CD**

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.

Each time you press **SOUND** button, the "BYPASS" indicator will only be shown 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 → 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 → BYPASS...

#### **For your reference**

- **The unit memorizes the last mode settings for each source individually.**
- **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.

#### **Note**

When you play sound tracks with 96kHz sampling frequency, the output signals will be converted to 48kHz (sampling frequency).



# Before Operation



### Caution:

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

## 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.

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

Items	Function / Action using  /  to select item	Selection Method
Title Number	1 / 3	/ , Numbers, or SELECT/ENTER
Chapter Number	1 / 12	/ , Numbers, or SELECT/ENTER
Time search	0:20:09	Numbers, SELECT/ENTER
Audio language and Digital Audio Output mode	1 ENG D DD 5.1 CH	/  or AUDIO
Subtitle language	1 ENG	/  or SUBTITLE
Angle	1 / 3	/
Sound	Bypass	/  or SOUND

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

Items	Function / Action using  /  to select item	Selection Method
Track Number	1 / 3	/ , Numbers, or SELECT/ENTER
Time	0:20:09	-
Audio Channel	Stereo	/  or AUDIO
Sound	Bypass	/  or SOUND

### 3

Press or to change the setting of an item.

The number buttons can also be used for setting numbers (e.g., title number). For some functions, press SELECT/ENTER to execute the setting.

### Temporary Feedback Field Icons

- Title Repeat title
- A - B 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.



## 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 20 to 24.

#### **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** **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 to enter the corresponding 4-digit number according to the language code list on page 37. If you enter the wrong language code, press **CLEAR** on the remote control.



## Before Operation

### 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 **DVD**

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.



#### 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 :** 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.

#### 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.

#### 2.1 Speaker Setup **DVD**

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



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 "2.1 Speaker Setup" option then press to move to the third level. "Select" is highlighted.
4. Press SELECT/ENTER and 2.1 Speaker Setup menu appears.
5. Use / to select the desired speaker.
6. Adjust options using / / / buttons.
7. Press SELECT/ENTER to confirm your selection. Returns to the previous menu.

#### Speaker selection

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

#### 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".
- 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.



## Before Operation

### Volume

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

### Distance

This function is not available to the unit.

### 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 → Front R → Woofer

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

With the DVD format, you can hear a program's sound track 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.

### 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.

## OTHERS



### PBC **VCD**

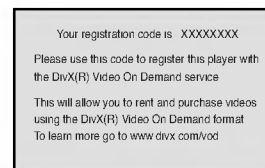
Set Playback Control (PBC) to On or Off.

**On:** Video CDs with PBC are played according to the PBC.

**Off:** Video CDs with PBC are played the same way as Audio CDs.

### DivX(R) Registration **DivX**

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

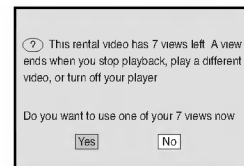


The Registration code is used for VOD (Video-On-Demand) service agent. You can purchase or rental an encrypt movie file.

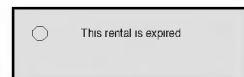
### **N** Notes

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

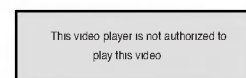
- Display the number which you can watch the file.



- The rental has been expired.



- Display the authorization error.





## Before Operation

### 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.

- 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.

#### **N**ote

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.

#### **N**ote

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

#### Country Code **DVD**

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.



## 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 to show either FM or AM in the display window.**  
Every time you press this button, AM and FM changes alternately.
- 2 Press TUNING (-/+) on the front panel until the frequency indication starts to change.**

#### **N**otes

- **Automatic Tuning**  
Press the TUNING (-/+) for more than 0.5 second.  
- Scanning stops when the unit tunes in a station.
  - **Manual Tuning**  
Press the TUNING (-/+) briefly and repeatedly.
- 3 Press PROGRAM/MEMORY on the front panel.**  
A preset number will flash in the display window.
  - 4 Press PRESET (-/+) (or PRESET ▼/▲ on the remote control) to select the preset number you want.**
  - 5 Press PROGRAM/MEMORY again.**  
The station is stored.
  - 6 Repeat steps 2 to 5 to store other stations.**

### To clear all memorized stations

Press and hold PROGRAM/MEMORY on the front panel for about two seconds, "CLEAR ALL" appears in the display window and then press CLEAR on the front panel, the stations are cleared.

#### For your reference

If all stations have already been entered, "MEM 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 (-/+) ( or PRESET ▼/▲ on the remote control) until the desired preset number appears or press the button repeatedly.

### Listening to the radio

- 1 Press TUNER/BAND to select either AM or FM in the display window.**  
The last received station is tuned in.
- 2 Press PRESET (-/+) (or 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 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 turn the radio off

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

#### For your reference

- **If a FM program is noisy**  
Press MODE/RIF repeatedly so that "ST" 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.

#### **N**otes

- Use MODE/RIF (Radio Interference Filter) function to switch to Mono reception if stereo reception is distorted by noise.
- While recording weak AM broadcasts, if noises occurs, press MODE/RIF once.



## Operation with RADIO

### RDS Function - OPTIONAL

#### About RDS

This unit is equipped with RDS (Radio Data System), which brings a wide range of information from FM radio. 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

When a FM station containing RDS data is tuned in, 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 programme type recognition (PTY), Radio Text (RT), Clock Time (CT) and RDS service programme (PS) if transmitted by the station.

#### RDS Display Options

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**)

- **PTY (Programme type recognition)**- The programme type is shown on the display window.
- **RT (Radio text recognition)**- The radio station's name is displayed on the display window.
- **CT (Time controlled by the channel)**- Enable the unit to receive the actual time and show it on the display window.
- **PS (Programme Service name)**- The programme title is displayed on the display window.

#### **N**otes

- 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)

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 Select a desired station by pressing TUNING (-/+).**  
When the RDS transmission is received, the display shows the program service name (PS) after RDS indicator appears.
- 3 Press the RDS to select PTY mode.**
- 4 To search for a different PTY, press the PRESET (-/+) while the last PTY in use is still displayed to scroll through the list of available PTY types.**
- 5 When the PTY is selected, press the TUNING (-/+) within 5 seconds.**  
The unit will go into an automatic search mode and attempt to find the next station with acceptable signal strength that matches the desired PTY type.



## Operation with TAPE

### Basic Playback

- 1 Press **TAPE** to select tape function.  
("NO TAPE" appears in the display window.)
- 2 Open cassette deck by pushing to the **▲PUSH EJECT** position.
- 3 Insert a cassette with the tape side to the bottom and then close deck.
- 4 Press **▶** (or **◀** : optional) on the front panel or remote control.

### AUTO STOP DECK

After auto stop deck plays front side of cassette, the unit stops automatically.

### AUTO REVERSE DECK : OPTIONAL

You can select direction of the cassette you want by pressing **PLAY MODE**.

Pressing	Display	Function
-		After the cassette plays front or reverse (backward play) side, stops automatically.
Once		After the cassette plays front and reverse side, stops automatically.
Twice		After the cassette of plays six times repeatedly front and reverse side, stops automatically.

### To Stop Play

Press **STOP(■)/CLEAR** on the front panel or **TAPE STOP (■)** on the remote control during playback.

### Tape Counter Reset

Press **COUNTER RESET (COUNT.RESET)** during playback.

Playing time appears "TAPE 0000" in display window.

### To Play Rewind or Fast Forward

After press **I◀◀/▶▶I** on the front panel or **◀◀/▶▶** on the remote control during playback or stop, press **▶** (or **◀** : optional) at the tape position you want.

### Recording from Radio, CD or Auxiliary source

- 1 Press the function (**CD, TUNER/BAND** or **AUX**) you want.
- 2 Open the cassette deck and insert a blank cassette into the cassette compartment.  
To set the recording direction : **OPTIONAL**  
Press **PLAY MODE** repeatedly to set the recording direction.
- 3 Press **●REC/||** on the front panel or **●/||** on the remote control.  
"REC" flashes and holds the cassette in pause mode.
- 4 Press **●REC/||** on the front panel or **●/||** remote control.  
The recording is begun.  
To pause the recording  
Press **●/||** ( or **●REC/||**) during recording .  
To stop the recording  
Press **STOP(■)**.

### CD- Synchro recording

This feature is a convenient to record tracks from CD to cassette.

- 1 **Select the CD function and load a CD to be recorded.**  
You may wish to program a selection of tracks for recording.
- 2 **Open the cassette deck and insert a blank cassette into the tape tray.**  
To set the recording direction  
Press **PLAY MODE** repeatedly to set the recording direction.
- 3 **Press CD SYNC. in stop mode.**  
"REC" flashes and "CD SYNC" displays in the display window.
- 4 **The synchronized recording is started automatically after about 7 seconds.**

### Notes

- If you wish to record from the desired track, select the desired track with **I◀◀/▶▶I** before commencing CD synchro recording.
- A function change is not possible during recording.



## Operation with TAPE

### Playing a DVD and Video CD

#### **T** Playback Setup **DVD** **VCD**

- 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 (▲) to open the disc tray.

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

**3** Press OPEN/CLOSE (▲) to close the tray. READING appears on the TV screen, and playback starts automatically. If playback does not start, press PLAY.  
In some cases, the disc menu might appear instead.

#### **T** If a menu screen is displayed

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

##### **DVD**

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.

##### **VCD**

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 (See "PBC" on page 23).

#### **N** Notes

- If parental control is set and the disc is not within the rating settings you must input the password. (See "Lock Menu" on page 24.)
- 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 2 (two).

### General Features

#### **N**ote

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

#### Moving to another TITLE **DVD**

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

##### **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 ◀◀ 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 **DVD** **VCD**

- 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 Video CD, the Search speed changes: ◀◀X2, ◀◀X4, ◀◀X8, ◀◀X16 (backward) or ▶▶X2, ▶▶X4, ▶▶X8, ▶▶X16 (forward).
- 3 To exit SEARCH mode, press PLAY.



## Operation with DVD and Video CD

### General Features (continued)

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

**DVD VCD**

- 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 **DVD VCD**

- 1 Press ◀ or ▶ 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 **DVD VCD**

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.

##### 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 23).

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

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 **DVD VCD**

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.

#### Last Scene Memory **DVD**

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.



## Operation with DVD and Video CD

### General Features (continued)

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

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 (screen fit mode) → 400% size → 800% size → 1600% size → 100% size (screen fit mode)

- 2 Use the / / / buttons to move through the zoomed picture.

#### **N**ote

The zoom function may not work for some DVDs.

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

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.

### Special DVD Features **DVD**

#### 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 **DVD**

- 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 **DVD**

Press MENU.

The disc menu is displayed.

#### Camera Angle **DVD**

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 **DVD**

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

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

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

#### Subtitle **DVD**

Press SUBTITLE (S-TITLE) repeatedly during playback to see the different subtitle languages.

#### **N**ote

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



## Operation with Audio CD and MP3/WMA Disc

### Playing an Audio CD and MP3/WMA

#### Disc **CD** **MP3** **WMA**

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.



#### **N**otes

- If you are in a file list on the MP3/WMA menu and want to return to the Folder list, use the **▲** / **▼** to highlight **⏪** on the top 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** 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**.

#### 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 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 999.

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.**



## Operation with Audio CD and MP3/WMA Disc

### Pause **CD** **MP3** **WMA**

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

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

- Press **I◀** or **▶I** briefly during playback to go to the next track or to return to the beginning of the current track.
- Press **I◀◀** 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 **CD** **MP3** **WMA**

- 1 To repeat the track currently playing, press REPEAT. The Repeat icon and "TRACK" appears on the menu screen.
- 2 To repeat all tracks on a disc, press REPEAT a second time. The Repeat icon and "ALL" appears on the menu screen.
- 3 To cancel Repeat mode, press REPEAT a third time. The Repeat icon and "OFF" appears on the menu screen.

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

- 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). Search speed and direction are indicated on the menu screen.
- 3 To return to playback, press PLAY.

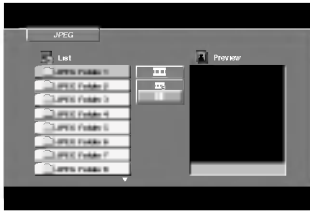


## Operation with JPEG Disc

### Viewing a JPEG disc **JPEG**

This unit can play discs with JPEG files and Kodak picture CD. 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.**

#### **T** Tip

If you are in a file list and want to return to the Folder list, use the  $\blacktriangle$  /  $\blacktriangledown$  buttons on the remote 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).

#### **T** Tip

- 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.**

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

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 PROGRAM. 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. Press and hold / to move to the next / previous 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.

### 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.

*To resume normal playback from programmed playback*

Select a track on the List then press SELECT/ENTER. “PROG.” disappears from the display window.

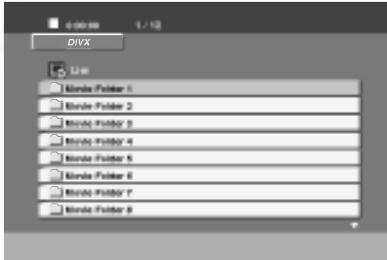


## Operation with DivX Disc

The unit can play the MPEG4 encoded files (.avi, mpg, .mpeg, .divx etc) and subtitle files (.srt, .smi, sub).

### 1 Insert the MPEG4 encoded 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.

### 3 Press ▲ / ▼ to select a track then press PLAY or SELECT/ENTER.

Playback starts.

## Pause **DivX**

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

## Repeat Track/All/Off **DivX**

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.

## Subtitle **DivX**

Press SUBTITLE (S-TITLE) repeatedly during playback to see the different subtitle language.

## Search **DivX**

- 1 Press ◀◀ or ▶▶ during playback.
- 2 Press ◀◀ or ▶▶ repeatedly to select the required speed.
- 3 To exit SEARCH mode, press PLAY.

## Display **DivX**

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 8 - 320kbps (MP3), 32 - 192kbps (WMA)



## 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>
	<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>
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

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 20).

REFERENCE

Code	Language	Code	Language	Code	Language	Code	Language
6566	Abkhazian	7074	Fiji	7678	Lingala	8373	Singhalese
6565	Afar	7073	Finnish	7684	Lithuanian	8375	Slovak
6570	Afrikaans	7082	French	7775	Macedonian	8376	Slovenian
8381	Albanian	7089	Frisian	7771	Malagasy	8379	Somali
6577	Ameharic	7176	Galician	7783	Malay	6983	Spanish
6582	Arabic	7565	Georgian	7776	Malayalam	8385	Sudanese
7289	Armenian	6869	German	7784	Maltese	8387	Swahili
6583	Assamese	6976	Greek	7773	Maori	8386	Swedish
6588	Aymara	7576	Greenlandic	7782	Marathi	8476	Tagalog
6590	Azerbaijani	7178	Guarani	7779	Moldavian	8471	Tajik
6665	Bashkir	7185	Gujarati	7778	Mongolian	8465	Tamil
6985	Basque	7265	Hausa	7865	Nauru	8484	Tatar
6678	Bengali; Bangla	7387	Hebrew	7869	Nepali	8469	Telugu
6890	Bhutani	7273	Hindi	7879	Norwegian	8472	Thai
6672	Bihari	7285	Hungarian	7982	Oriya	6679	Tibetan
6682	Breton	7383	Icelandic	8065	Panjabi	8473	Tigrinya
6671	Bulgarian	7378	Indonesian	8083	Pashto, Pushto	8479	Tonga
7789	Burmese	7365	Interlingua	7065	Persian	8482	Turkish
6669	Byelorussian	7165	Irish	8076	Polish	8475	Turkmen
7577	Cambodian	7384	Italian	8084	Portuguese	8487	Twi
6765	Catalan	7465	Japanese	8185	Quechua	8575	Ukrainian
9072	Chinese	7487	Javanese	8277	Rhaeto-Romance	8582	Urdu
6779	Corsican	7578	Kannada	8279	Rumanian	8590	Uzbek
7282	Croatian	7583	Kashmiri	8285	Russian	8673	Vietnamese
6783	Czech	7575	Kazakh	8377	Samoan	8679	Volapuk
6865	Danish	7589	Kirghiz	8365	Sanskrit	6789	Welsh
7876	Dutch	7579	Korean	7168	Scots Gaelic	8779	Wolof
6978	English	7585	Kurdish	8382	Serbian	8872	Xhosa
6979	Esperanto	7679	Laothian	8372	Serbo-Croatian	7473	Yiddish
6984	Estonian	7665	Latin	8378	Shona	8979	Yoruba
7079	Faroese	7686	Latvian, Lettish	8368	Sindhi	9085	Zulu



## Country Code List

Enter the appropriate code number for the initial setting "Country Code" (See page 24).

Code	Country	Code	Country	Code	Country	Code	Country
AD	Andorra	ER	Eritrea	LC	Saint Lucia	SC	Seychelles
AE	United Arab Emirates	ES	Spain	LI	Liechtenstein	SD	Sudan
AF	Afghanistan	ET	Ethiopia	LK	Sri Lanka	SE	Sweden
AG	Antigua and Barbuda	FI	Finland	LR	Liberia	SG	Singapore
AI	Anguilla	FJ	Fiji	LS	Lesotho	SH	Saint Helena
AL	Albania	FK	Falkland Islands	LT	Lithuania	SI	Slovenia
AM	Armenia	FM	Micronesia	LU	Luxembourg	SJ	Svalbard and Jan Mayen Islands
AN	Netherlands Antilles	FO	Faroe Islands	LV	Latvia	SK	Slovak Republic
AO	Angola	FR	France	LY	Libya	SL	Sierra Leone
AQ	Antarctica	FX	France (European Territory)	MA	Morocco	SM	San Marino
AR	Argentina	GA	Gabon	MC	Monaco	SN	Senegal
AS	American Samoa	GB	Great Britain	MD	Moldavia	SO	Somalia
AT	Austria	GD	Grenada	MG	Madagascar	SR	Suriname
AU	Australia	GE	Georgia	MH	Marshall Islands	ST	Saint Tome and Principe
AW	Aruba	GF	French Guyana	MK	Macedonia	SU	Former USSR
AZ	Azerbaijan	GH	Ghana	ML	Mali	SV	El Salvador
BA	Bosnia-Herzegovina	GI	Gibraltar	MM	Myanmar	SY	Syria
BB	Barbados	GL	Greenland	MN	Mongolia	SZ	Swaziland
BD	Bangladesh	GM	Gambia	MO	Macau	TC	Turks and Caicos Islands
BE	Belgium	GN	Guinea	MP	Northern Mariana Islands	TD	Chad
BF	Burkina Faso	GP	Guadeloupe (French)	MQ	Martinique (French)	TF	French Southern Territories
BG	Bulgaria	GQ	Equatorial Guinea	MR	Mauritania	TG	Togo
BH	Bahrain	GR	Greece	MS	Montserrat	TH	Thailand
BI	Burundi	GS	S. Georgia & S. Sandwich Isls.	MT	Malta	TJ	Tadjikistan
BJ	Benin	GT	Guatemala	MU	Mauritius	TK	Tokelau
BM	Bermuda	GU	Guam (USA)	MV	Maldives	TM	Turkmenistan
BN	Brunei Darussalam	GW	Guinea Bissau	MW	Malawi	TN	Tunisia
BO	Bolivia	GY	Guyana	MX	Mexico	TO	Tonga
BR	Brazil	HK	Hong Kong	MY	Malaysia	TP	East Timor
BS	Bahamas	HM	Heard and McDonald Islands	MZ	Mozambique	TR	Turkey
BT	Bhutan	HN	Honduras	NA	Namibia	TT	Trinidad and Tobago
BV	Bouvet Island	HR	Croatia	NC	New Caledonia (French)	TV	Tuvalu
BW	Botswana	HT	Haiti	NE	Niger	TW	Taiwan
BY	Belarus	HU	Hungary	NF	Norfolk Island	TZ	Tanzania
BZ	Belize	ID	Indonesia	NG	Nigeria	UA	Ukraine
CA	Canada	IE	Ireland	NI	Nicaragua	UG	Uganda
CC	Cocos (Keeling) Islands	IL	Israel	NL	Netherlands	UK	United Kingdom
CF	Central African Republic	IN	India	NO	Norway	UM	USA Minor Outlying Islands
CG	Congo	IO	British Indian Ocean Territory	NP	Nepal	US	United States
CH	Switzerland	IQ	Iraq	NR	Nauru	UY	Uruguay
CI	Ivory Coast	IR	Iran	NU	Niue	UZ	Uzbekistan
CK	Cook Islands	IS	Iceland	NZ	New Zealand	VA	Vatican City State
CL	Chile	IT	Italy	OM	Oman	VC	Saint Vincent & Grenadines
CM	Cameroon	JM	Jamaica	PA	Panama	VE	Venezuela
CN	China	JO	Jordan	PE	Peru	VG	Virgin Islands (British)
CO	Colombia	JP	Japan	PF	Polynesia (French)	VI	Virgin Islands (USA)
CR	Costa Rica	KE	Kenya	PG	Papua New Guinea	VN	Vietnam
CS	Former Czechoslovakia	KG	Kyrgyzstan	PH	Philippines	VU	Vanuatu
CU	Cuba	KH	Cambodia	PK	Pakistan	WF	Wallis and Futuna Islands
CV	Cape Verde	KI	Kiribati	PL	Poland	WS	Samoa
CX	Christmas Island	KM	Comoros	PM	Poland	YE	Yemen
CY	Cyprus	KN	Saint Kitts & Nevis Anguilla	PY	Paraguay	YT	Mayotte
CZ	Czech Republic	KP	North Korea	PN	Pitcairn Island	YU	Yugoslavia
DE	Germany	KR	South Korea	PR	Puerto Rico	ZA	South Africa
DJ	Djibouti	KW	Kuwait	PT	Portugal	ZM	Zambia
DK	Denmark	KY	Cayman Islands	PW	Palau	ZR	Zaire
DM	Dominica	KZ	Kazakhstan	QA	Qatar	ZW	Zimbabwe
DO	Dominican Republic	LA	Laos	RE	Reunion (French)		
DZ	Algeria	LB	Lebanon	RO	Romania		
EC	Ecuador			RU	Russian Federation		
EE	Estonia			SA	Saudi Arabia		
EG	Egypt			SB	Solomon Islands		
EH	Western Sahara						



## Specifications

### General Section

Power supply	Refer to the main label.
Power consumption	110W

### Amplifier Section

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)
AM Tuning Range	522 - 1611 kHz or 530 - 1610 kHz or 530 - 1720 kHz
Intermediate Frequency	450 kHz
Signal to Noise Ratio	35 dB
Output Power	60W + 60W (6Ω / 2ch THD 10 %)
T.H.D	0.15%
Frequency Response	40 - 20000 Hz
Signal-to-noise ratio	80 dB
Mass	6.0 kg
External dimensions (W x H x D)	170 x 340 x 243 mm

### Tuner/Cassette tape player/DVD/VCD/CD player Section

Mass	4.0 kg
External dimensions (W x H x D)	170 x 340 x 243 mm

#### **Tuner/DVD/VCD/CD player**

Frequency response (audio)	200 - 18000 Hz
Signal-to-noise ratio (audio)	More than 70 dB (1 kHz)
Signal-to-noise ratio (video)	More than 60 dB (1 kHz)
Dynamic range (audio)	More than 70 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

#### **Cassette tape player**

Tape Speed	3 kHz ± 3%
Wow Flutter	0.25% (MTT -111, JIS-WTD)
F.F/REW. Time	120sec (C-60)
Frequency Response	125 - 8000Hz
Signal to Noise Ratio	43dB(P/B)/43dB(R/B)
Channel Separation	50dB(P/B)/45dB(R/P)
Erase Ratio	55dB (MTT-5511)

### Speaker Section

Type	2 Way 3 Speaker
Impedance	6 Ω
Frequency Response	70 - 20000 Hz
Sound Pressure Level	86 dB/W (1m)
Rated Input Power	60 W
Max. Input Power	120 W
Net Dimensions (W x H x D)	170X340X225mm
Net Weight	4.8 kg



P/NO : 3834RH0022L