Emerson

HOME THEATER SYSTEM

with DVD/AUDIO CD PLAYER,

DOLBY DIGITAL DECODER

and AM/FM DIGITAL TUNING RECEIVER

DVD VIDEO   MP3   COMPACT disc DIGITAL AUDIO   DOLBY DIGITAL

OWNER'S MANUAL

AV301

Visit our web site at www.emersonradio.com

Welcome.........

And thank you for purchasing this Emerson Audio/Video Home Theater System. This state of the art system includes everything you need to experience movie theater quality digital video and audio in the comfort of your own living room. The only thing you need to add is your own TV. We have designed this system to be easy to set up, and even easier to use. But please, review this manual before you operate your system; have it handy while you are setting the system up; and keep it available for future reference, or in the unlikely event that you encounter any unexpected problems. We have tried to keep this manual as simple as possible. It begins with a description of the important controls on the main unit and the remote. It then explains how to connect the speakers, your TV, and optional external sources to the main unit, how to position the speakers for the most natural surround sound, and then how to operate the DVD/CD player and the AM/FM Stereo Receiver. If you follow the instructions carefully you can have the system up and operating in less than an hour.

All of the optional system settings have been preset at our factory for correct operation of the system in North America. All you have to do is insert a disc, sit back, and enjoy a great home theater experience.
Eventually you may want to change some of the optional settings. A description of all the optional settings, and instructions for changing them, is found in the second half of the manual.

This system was designed to provide you with many years of reliable operation with a minimum of care and maintenance. Every component in your system was in perfect working condition when it left our factory. If you experience any problems with the set up or operation of this system please review the Trouble Shooting Guide at the end of this manual before you contact your dealer or the Emerson Customer Service Department.
Thanks again from all of us at Emerson Radio Consumer Products Corp.

The serial number of your system can be found on a label on the back panel of the main unit, and also on the display carton. Please record the serial number in the space below. You may need to refer to this number if your system ever needs to be serviced.

Model no.: AV301
Serial No.: _____

Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.
To avoid electrical shock, do not open the cabinet.
Refer servicing to qualified service personnel only.

The AC cord must only be changed at qualified service facility.

```
CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
```
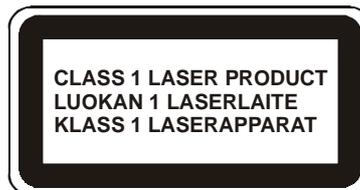
• This appliance is classified as a CLASS 1 LASER product.

• The CLASS 1 LASER PRODUCT MARKING is located on the rear panel.

• This product contains a low power laser device. To ensure continued safety, do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel only.

Caution

Refer servicing to qualified service personnel only.

The following marking is printed on the rear panel.

DANGER
Invisible laser radiation when open.
Avoid direct exposure to beam.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS RISQUE DE CHOC ELECTRIQUE/NE PAS OUVRIR
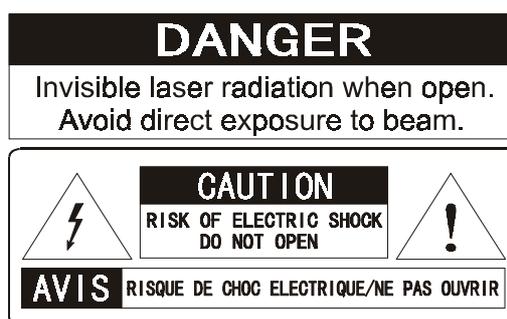
This symbol is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the applicance.

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Other Functions 42

Additional Information 45

Index to Parts and Controls

Refer to the pages indicated in parentheses for details.

Front Panel
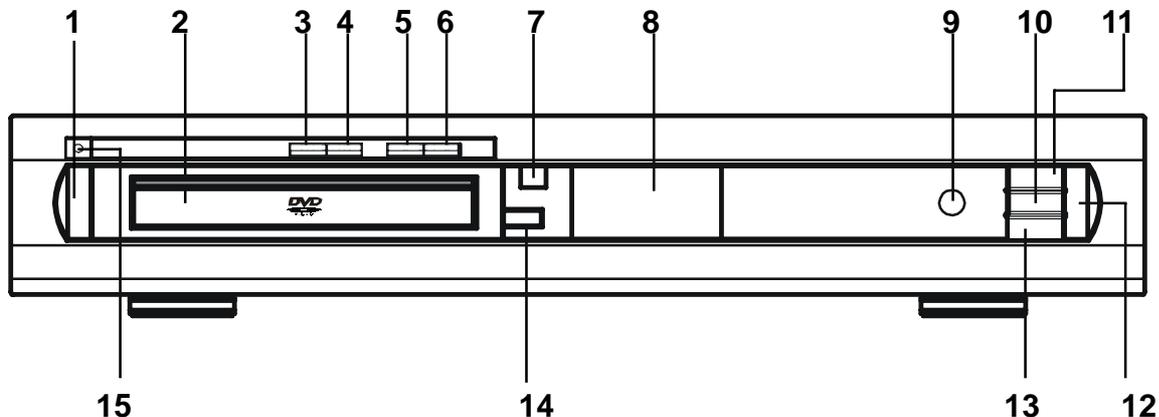
1. **POWER switch (page 20)**
   Turn on and off the main power of the system.
   (Note: This switch must be 'On' in order to operate the system with the remote control.)

2. **Disc Tray (page 20)**
   Place a disc on the tray.

3. **I◄◄ REV (TUNING ▼) button (page 19, 21, 43)**
   While playing a disc, press this button to select the previous title, chapter or track.
   While listening to the radio, press this button to tune to a lower frequency. For automatic tuning, press and hold it for more than 1 second.

4. **FWD ►►I (TUNING▲) button (page 19, 21, 43)**
   While playing a disc, press this button to select the next title, chapter or track.
   While listening to the radio, press this button to tune to a higher frequency. For automatic tuning, press and hold it for more than 1 second.

5. **■ STOP button (page 21)**
   Stop playing a disc.

6. **►/II PLAY / PAUSE button (page 21)**
   Play or pause a disc.

7. **REMOTE SENSOR**
   Receives the remote control signals.

8. **Front Panel Display (page 4)**
   Indicate the playing time, etc..

9. **PHONES jack**
   Connect a headphone to this jack.
   (Headphone not included.)

10. **SELECT button (page 39)**
    Select the audio channel to view or adjust its level.

11. **VOLUME▲ button (page 18, 39)**
    Increase the master volume level or the selected channel level.

12. **SOURCE button (page 20, 21, 42, 43)**
    Select the component you want to use.
    In standby mode, press this button to turn on the power of this system.

13. **VOLUME ▼ button (page 18, 39)**
    Decrease the master volume level or the selected channel level.

14. **▲ OPEN/CLOSE button (page 20)**
    Open or close the disc tray.

15. **STANDBY LED**
    During standby, this red LED lights.
    During mute, this red LED blinks.

Front Panel Display
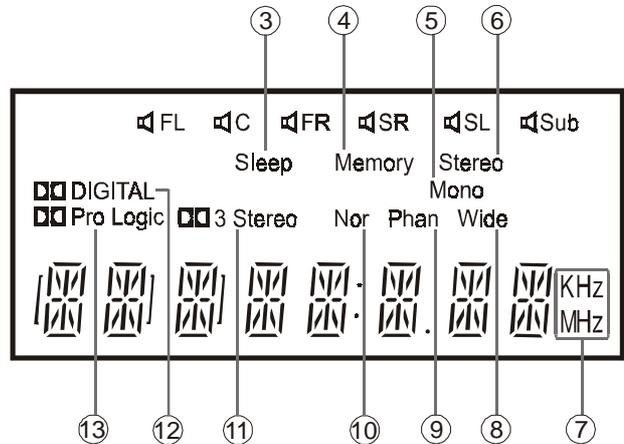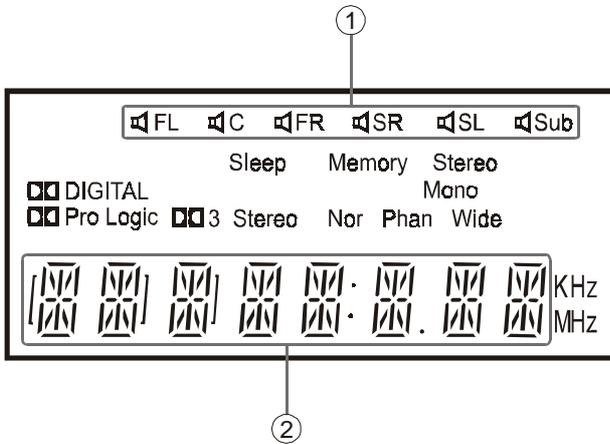
① **Speakers Icon (page 18)**

Indicates which of the six speakers are operating.

② **Status Bar (page 19, 24, 26, 42-44)**

Shows the operating information, such as "OPEN", "CLOSE" and "LOADING", etc.
Shows the type of the playing disc, such as "DVD", "CD" and "MP3", etc.
Shows the track and time information of the playing CD and MP3 disc.
Shows the tuner band and frequency.

③ **Sleep indicator (page 44)**

Illuminates when the sleep timer is set to 'On'.

④ **Memory indicator (page 24)**

Illuminates when the program play mode is set.
Illuminates when presetting radio stations.

⑤ **Mono indicator**

Illuminates when unit is set to FM MONO mode.

⑥ **Stereo indicator**

Illuminates when a stereo FM station is received.

⑦ **Frequency Unit indicator (page 42)**

In AM mode, "kHz" lights up.
In FM mode, "MHz" lights up.

⑧ **Wide indicator (page 44)**

Illuminates when "Pro Logic Wide" or "3-Stereo Wide" mode is selected.

⑨ **Phan (Phantom) indicator (page 44)**

Illuminates when "Pro Logic Phantom" mode is selected.

⑩ **Nor indicator (Normal) (page 44)**

Illuminates when "Pro Logic Normal" or "3-Stereo Normal" modes are selected.

⑪ **Dolby 3-Stereo indicator (page 44)**

Illuminates when "3-Stereo Normal" or "3-Stereo Wide" modes are selected.

⑫ **Dolby Digital indicator (page 44)**

Illuminates when the playing disc is recorded with Dolby Digital format.

⑬ **Dolby Pro Logic (page 44)**

Illuminates when the playing disc is recorded with Dolby Pro Logic format.
Illuminates when "Pro Logic Normal", "Pro Logic Phantom" or "Pro Logic Wide" modes are selected.

Index to Parts and Controls (Continued)

Rear Panel

Refer to the pages indicated in parentheses for details.
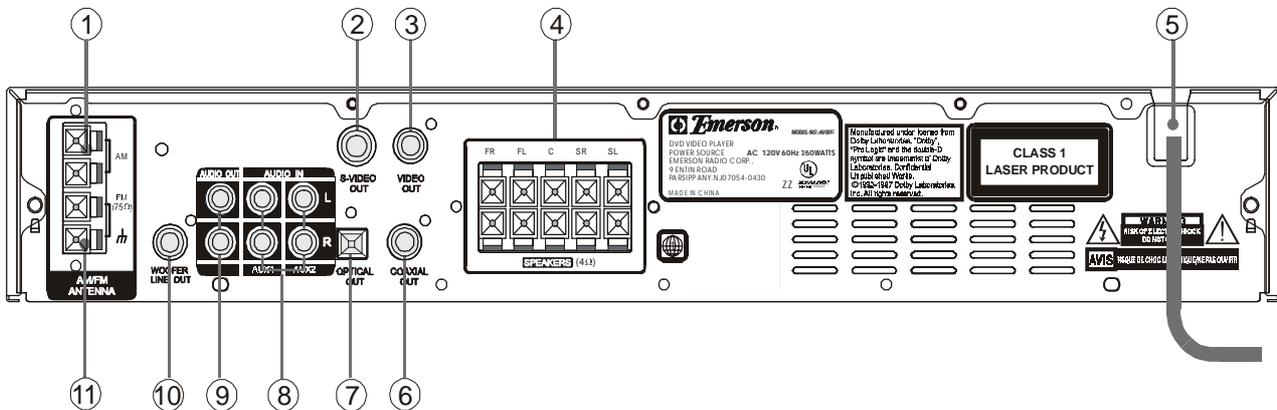
① **AM antenna terminal (page 13)**

Connect to the supplied AM loop antenna.

② **S-VIDEO OUT jack (page 14)**

Connect to a TV S-Video input connector.
(S-Video cable not included.)

③ **VIDEO OUT jack (page 14)**

Connect to a TV Video input connector.

④ **SPEAKER output terminals (page 12)**

Connect to the supplied speakers.

⑤ **AC power cord (page 14)**

Connect to a AC 120V / 60Hz wall outlet.

⑥ **COAXIAL OUT jack (page 14)**

Connect to an optional receiver.
(Cable not included.)

⑦ **OPTICAL OUT jack (page 14)**

Connect to an optional receiver.
(Cable not included.)

⑧ **AUX1 and AUX2 audio line input jacks (page 14)**

Connect to a TV set and a VCR, or other optional source.
(Connection cables not included.)

⑨ **AUDIO OUT jacks (page 14)**

Connect to a TV set, or other stereo receiver.
(Connection cables not included.)

⑩ **WOOFER LINE OUT jack (page 12)**

Connect to the supplied active subwoofer.

⑪ **FM 75 ohm DIPOLE antenna terminal (page 13)**

Connect to the supplied FM antenna.

Index to Parts and Controls (Continued)
Remote Control

Refer to page numbers in parenthesis for details
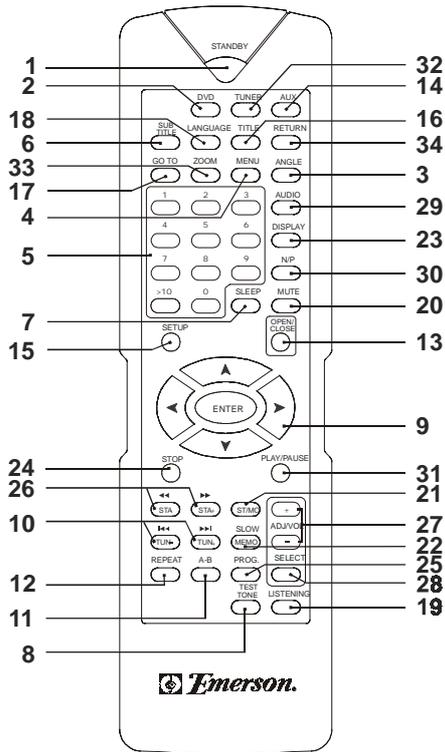
① **STANDBY button (page 18, 21)**

Turns the system power on or off.

(Note: Power switch on main unit must be "on".)

② **DVD button (page 20)**

Selects the DVD player mode.

③ **ANGLE button (page 41)**

Changes the angles while playing a DVD.

④ **MENU button**

Changes to menu start function.

⑤ **Number buttons (page 22, 24)**

Select the items or settings.

⑥ **SUBTITLE button (page 41)**

Selects a desired language for the subtitles while playing a DVD.

⑦ **SLEEP button (page 44)**

Activates the sleep timer.

⑧ **TEST TONE (page 18)**

Turns test tone on and off.

⑨ **ʌ / ʏ / ≺ / ≻ (Navigation) / ENTER buttons (page 22, 27)**

Move the cursor to select and execute the items or settings.

⑩ **►►I / I◄◄ (TUNING +/-) buttons (page 19, 43)**

In DVD player mode, press to select the next/previous title chapter or track.

⑪ **A-B button (page 23)**

Specifies a section and plays it repeatedly.

⑫ **REPEAT button (page 23)**

Press to select Repeat 1 or Repeat All playback.

⑬ **⏏ OPEN / CLOSE button (page 20)**

Opens or closes the disc tray.

⑭ **AUX button (page 43)**

Selects the AUX1 or AUX2 component (i.e. external source).

⑮ **SETUP button (page 27, 29, 31)**

Displays or exits the SETUP menu.

⑯ **TITLE button (page 22)**

Displays the title menu when playing a DVD.

⑰ **GO TO button (page 25)**

Selects a start point to play.

⑱ **LANGUAGE button (page 41)**

Selects a desired language for the audio when playing a DVD.

⑲ **LISTENING button (page 44)**

Selects a desired listening mode.

⑳ **MUTE button (page 21, 45)**

Mutes the sound.

㉑ **ST / MO (STEREO / MONO) - STEP button (page 21, 43)**

Switches between monaural or stereo during FM stereo reception. Activates frame by frame playback while playing a DVD .

㉒ **MEMO - SLOW button (page 19, 21)**

Presets the radio station. Activates slow-motion DVD playback.

㉓ **DISPLAY button (page 26)**

Switches the item displayed on the TV screen or/and on the front panel display.

㉔ **■ STOP button (page 21, 24, 27)**

Stops playback of a disc and clears the stored program.

㉕ **PROGRAM button (page 24)**

Stores CD tracks for program play.

㉖ **◄◄ STA-/ STA+ ►► buttons (page 21, 42)**

Press to play a disc in fast forward / reverse mode.

In tuner mode, press to select the preset stations.

㉗ **VOLUME (+ or -) buttons (page 18, 39)**

Increase / decrease the master volume level or the selected channel level.

㉘ **SELECT button (page 39)**

Selects the audio channel to view or adjust its level.

㉙ **AUDIO button**

Selects the audio channels for sound.

㉚ **N/P (NTSC / PAL) button (page 29)**

Changes the color system temporarily without changing the default setting.

㉛ **►/II PLAY/PAUSE button (page 21)**

Start or pause when playing a disc.

㉜ **TUNER button (page 19, 42)**

Selects FM or AM mode.

㉝ **ZOOM button (page 40)**

Activates ZOOM function.

㉞ **RETURN button (page 22)**

Displays the root menu when playing a DVD.

Important Safeguards and Precautions

Power Cord Protection
To avoid any malfunctions of the unit, and to protect against electric shock, fire or personal injury, please observe the following:
- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.

Location and Handling
- Air vents are provided in the cabinet to prevent excessive temperatures inside the unit. Do not place this unit in closed spaces, cover it, or otherwise block the vents.
- Do not place this unit in direct sunlight, or near heat sources.
- Keep this unit away from strong magnetic objects.
- Do not insert or drop anything into this unit through the air vents as this could cause serious damage, possibly resulting in fire.
- Do not place any object containing water or other liquids on this unit. In the event that liquid should enter the cabinet, unplug this unit immediately and contact the retailer or service center immediately.
- Do not remove the cabinet. Touching parts inside the cabinet could result in electric shock and / or damage to the unit.
- Do not use the unit in a car. The operation can not guaranteed.

Non-Use Periods
- When the unit is not being used, turn the unit off.
- When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside
Do not put any foreign object on the disc tray.

Stacking
Place the unit in a horizontal position, and do not place anything heavy on it.

Condensation
Moisture may form on the pickup lens in the following conditions:
- Immediately after a heater has been turned on.
- In a steamy or very humid room.
- When the unit is suddenly moved from a cold environment to a warm one.

If moisture forms inside this unit, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

On Adjusting Volume
Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

If There is Noise Interference on the TV While a Broadcast is Being Received
Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the unit is left on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off the unit.

Service
- Do not attempt to service the unit yourself.
- Please call 1-800-695-0098 for the name of the nearest service center.

Copyright
Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant laws covering copyright protection.

Copy protection
This DVD player supports Macrovision copy protection.
On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Recommended Measures for Optimum Performance
This unit is a precision device that is constructed using extremely accurate technology.
Soiling or friction affecting the pickup lens or disc drive can impair the image quality. In the worst case, neither video nor audio will be played back. To obtain optimum picture quality, the player should be checked (cleaning and replacement of some parts) every 1,000 hours. Note that this period varies depending on the environment (temperature, humidity, dust, etc..) in which the player is used.
Do not attempt to clean the pickup lens yourself.

Features of This System

- DVD player with built-in Dolby Digital[*1] decoder, supporting Dolby Pro Logic and Virtual Surround.
- 5-channel amplifiers and active subwoofer.
- AM/FM digital tuner.
- Compatible with DVD, MP3, CDR, CDRW and CD-DA discs.
- DVD navigation functions.
- Multi-color fluorescent front panel display and on screen display menu.
- Full function remote control.

[*1] **Manufactured under license from Dolby Laboratories. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.**

Important Information Regarding This Manual

- The types of functions and operations that can be used for a particular disc vary depending on the features of that disc. In some cases, these functions and operations may differ from the descriptions given in this Operations Manual. In this event, follow the instructions given on the screen. This Operations Manual only covers basic disc operations.
- For some operations, the ▯ icon may appear on the screen. This indicates that the operation described in this Operations Manual is not available on the disc in the player.
- The drawings about the TV screen and front panel display used in this Operations Manual are purely for the purposes of explanation. The actual displays may differ slightly from what are shown here.

Type of Disc That Can be Played on This System

This player can playback discs bearing any of the following marks:

DVDs 12cm disc / 8cm disc	Audio CDs 12cm disc / 8cm disc
See **Note-1** See **Note-2** See **Note-3**	• Supports MP3, CDR, CDR-W, CD-DA

Note-1

• DVD players and discs are designed with region numbers which dictate the regions in which a disc can be played. If the region number on the disc you want to play does not match the region number in your DVD player, you will not be able to play the disc. If you try to play the DVD, the message "WRONG REGION" will appear on the on screen display.

The region number for this DVD player is **1**.
The region code of this player is printed on the rear of the unit..

Sample disc display:

Disc playable in all regions
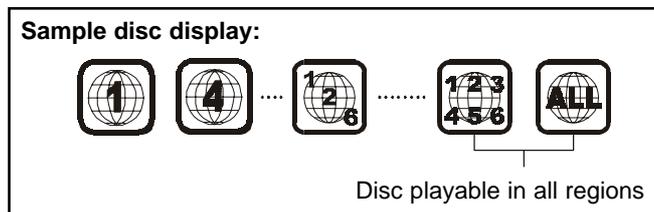
Note-2

• The specific playback functionality for some DVD and video CD discs is determined by the disc manufacturer. Because this DVD player plays disc data in accordance with the disc manufacturer′s guidelines, some functions may not be available on some discs. Be sure to read the instructions provided with the disc.
The "**Prohibited**" **icon** ▯ **displayed during DVD player operation indicates that such manufacturer imposed restrictions apply.**

Note-3

• The audio on a DVD disc recorded in MPEG version 2.0 format may not play properly on some discs, only the image will appear in this case.

Discs that Cannot be Played

• You cannot play CD-G, CD-EXTRA, PHOTO CD, CD-ROM and DVD-ROM discs.
• You cannot play illegally produced discs.
• You cannot play scratched discs.
• You cannot play discs that are dusty, soiled or marked with fingerprints.

Icons used on DVD discs
Sample Icons:

1. English 2. Spanish	1. English 2. Spanish	16:9 LB	2	
Number of recorded audio tracks	Number of subtitles recorded	Screen aspect ratio recorded	Disc with Multiple camera angles	Region code indicator
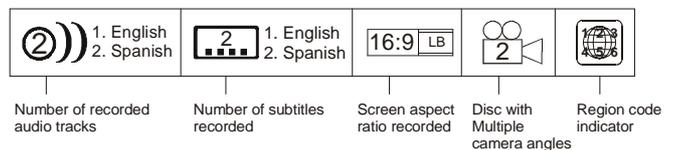
Glossary of Disc Terms

• Title (DVD)
The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on a video disc; or an album, etc., for a music piece on an audio disc. Each title is assigned a title number enabling you to locate the title you want.

• Chapter (DVD)
Sections of a picture or a music piece that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want. Some discs may not contain chapters .

For example	
Title 1	Chapter 1
	Chapter 2
Title 2	Chapter 1
	Chapter 2
	Chapter 3
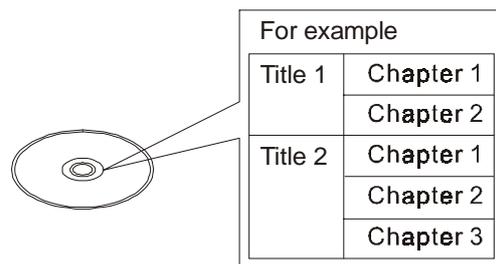
• Track (Audio CD)
Sections of a picture or a music piece on an audio CD . Each track is assigned a track number enabling you to locate the track you want.

Notes on Discs

Disc handling precautions
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
  If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.
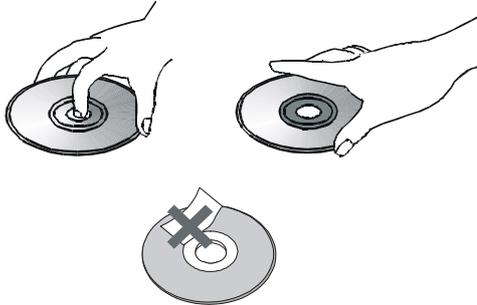
- Do not expose the disc to direct sunlight or sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be considerable rise in temperature inside the car.
- After playing, store the disc in its case.
- Do not write on the label side with a ball-point pen or other writing utensils.
- Be careful not to drop or bend the disc.

Disc cleaning precautions
- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
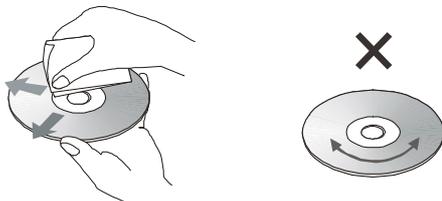
- Do not use solvents such as benzine, thinner, commorically available cleaners or anti-static spray intended for vinyl LPs.

Disc installing precautions
- Do not install more than 1 disc on disc tray.
- Do not place the disc on the tray up-side down.
- Do not try to close the disc tray when the disc is not installed and centered properly.

Disc tray   Disc
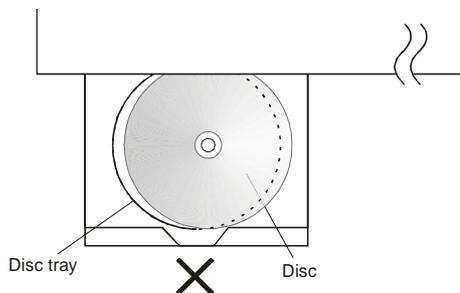
Installations

This section describes how to connect the system to the speakers, a TV monitor with audio / video input jacks and other video components. You cannot connect this system to a TV monitor which does not have a video input connector. Be sure to turn off the power of each component before making the connections.

Unpacking

Check that you have the following items:
• Main unit (1).
• Subwoofer (1).
• Speakers (5).
• Remote control (1).
• AAA batteries (2).
• Video cable (4 feet x 1).
• Subwoofer cord (16 feet x 1).
• Front speaker cords (13 feet x 2, red / black).
• Center speaker cord (9 feet x 1, blue / black).
• Surround speaker cords (26 feet x 2, gray / black).
• AM loop antenna (1).
• FM antenna (1).
• Owner's Manual (1).
• Quick Set Up Guide.

Inserting Batteries into the Remote Control

You can control the system using the supplied remote. Insert two batteries by matching the + and - on the batteries with the markings in the battery compartment. When using the remote, point it at the remote sensor on the front panel of this system.
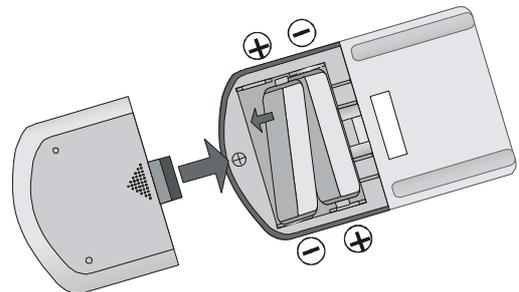
Notes:
• Do not leave the remote in an extremely hot or humid place.
• Do not use a new battery with an old one.
• Do not drop any foreign object into the remote casing. particularly when replacing the batteries.
• Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so many cause a malfunction.
• If you will not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.
• Use only the size and type of batteries specified.
• Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
• Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.

Speaker System Connection

Connect the supplied speaker system using the supplied speaker cords by matching the colors of the terminals and those of the cords.

At the rear of each supplied speaker you will find two spring type connectors, a black one marked (-) and a red, blue and gray one marked (+).

• Connect the active Subwoofer to the RCA jack marked "woofer line out".

Required audio cable (supplied):

Black ▭━━━━━━━━▭ Black

The speaker cables and connectors are color coded for easier set up (see page 13 for tips for connecting antenna and speakers wires).

• Connect the Front Left speaker to the FL terminals.
• Connect the Front Right speaker to the FR terminals.
• Connect the Center speaker to the C terminals.
• Connect the Surround Left speaker to the SL terminals.
• Connect the Surround Right speaker to the SR terminals.

Required speaker cords (supplied):

Right Front Speaker Center Speaker Left Front Speaker

Subwoofer

Right Surround Speaker

Left Surround Speaker
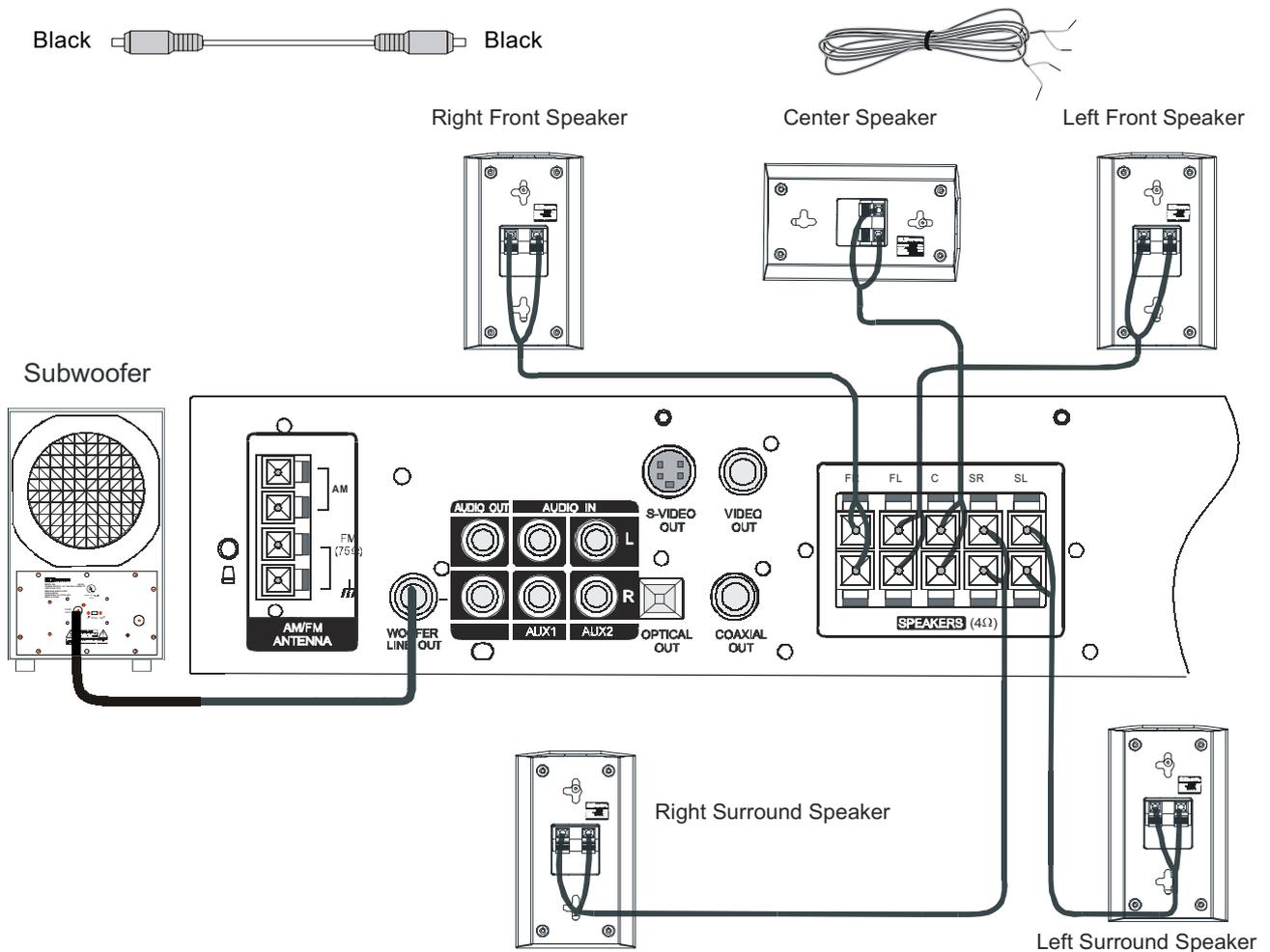
To avoid short-circuiting the speakers

• Make sure the stripped end of each speaker cord does not touch another speaker terminal or the stripped end of another speaker cord.

Examples of poor connection of the speaker cord

• Stripped speaker cord is touching another speaker terminal.

• Stripped cords are touching each other due to excessive removal of insulation.
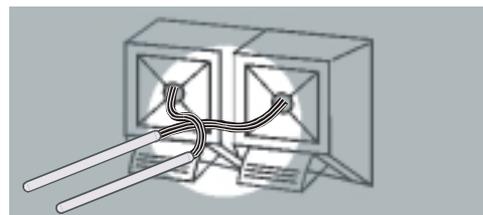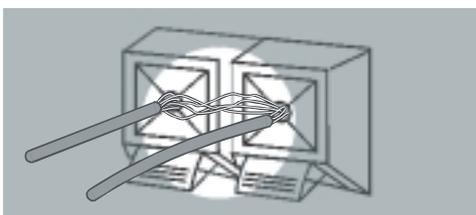
Note:

• 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 bass.

Antenna Connections

Connect the supplied AM / FM antennas for listening to the radio.
• Connect the AM loop antenna to the AM terminals.
• Connect the FM antenna to the FM antenna terminals.

**AM loop antenna
(Included)**

**FM antenna
(Included)**

AM

FR   FL   C   SR   SL

AUDIO OUT   AUDIO IN   S-VIDEO
OUT

VIDEO
OUT

FM
(75Ω)

L   L

R   R

AM/FM
ANTENNA

WOOFER
LINE OUT

AUX1   AUX2

OPTICAL

COAXIAL

SPEAKERS (4Ω)
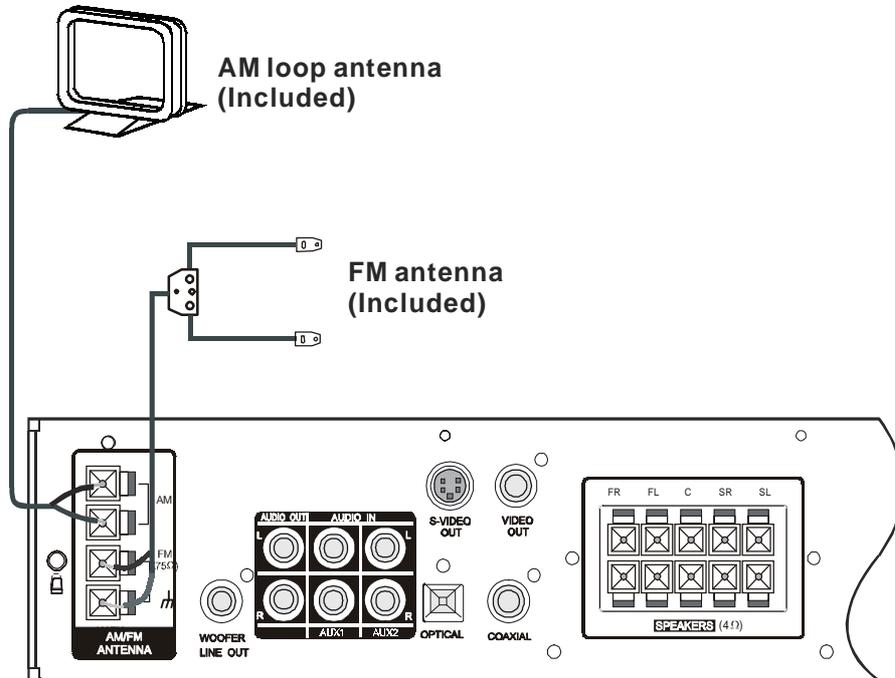
Notes:
• To prevent noise pickup, keep the AM loop antenna away from the system and other components.
• Be sure to fully extend the FM antenna.
• After connecting the FM antenna, keep it as horizontal as possible.

Tips for connecting antenna and speakers wires
Push and hold Speaker terminal tab down to insert wire. Release tab to lock wire in terminal. Make sure the insulation is completely removed from the ends of the antenna and speaker wires at all connection points.

5/8"
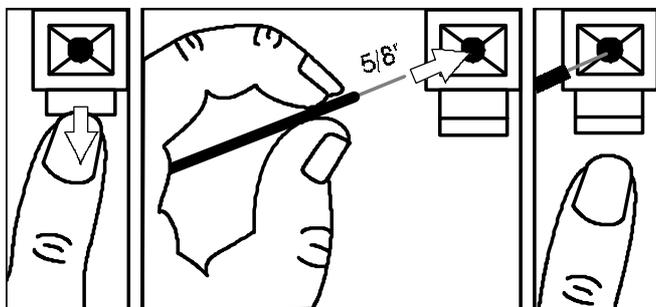
If you have poor FM reception
Use a 75-ohm coaxial cable (not included) to connect the system to an outdoor FM antenna as shown below.

Outdoor FM antenna

System

AM

Ground wire
(not included)

FM
(75Ω)

AM/FM
ANTENNA
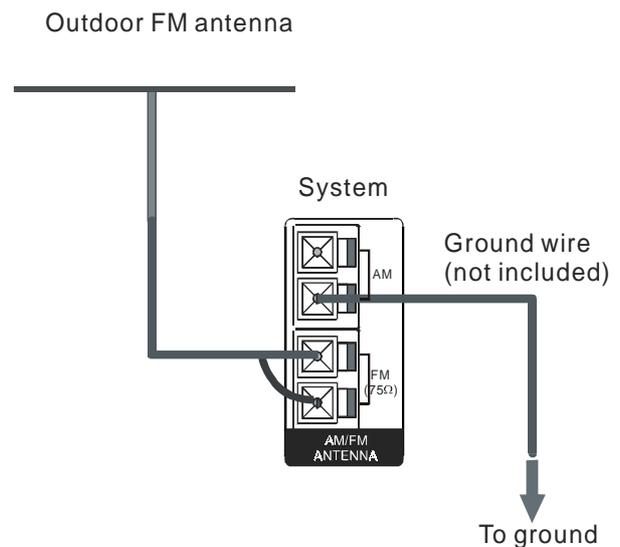
To ground

Notes:
• If you connect the system to an outdoor antenna, ground it against lightning.
• To prevent a gas explosion, do not connect the ground wire to a gas pipe.

TV and Optional Component Connections

Required cords
• Video cord for connecting a TV set (included).

Yellow ◁▭▬▭▭━━━━━▭▬▭▭▷ Yellow

• Audio cords (not included).
When connecting a cord, be sure to match the color-coded pins to the appropriate jacks on the components.

Red ◁▭▬▭▭   ▭▬▭▭▷ Red
White ◁▭▬▭▭   ▭▬▭▭▷ White

Notes:

• **TV Connection - Normal (Connection Cable Included):**
To view the video from DVD discs on your TV set connect the Video Out jack of this system to the Video In jack of your TV set. The Video jacks are usually colored yellow. Use the included video cable with yellow plugs on each end.

• **TV Connection - S-Video (Cable Not Included):**
If your TV set has an S-Video Input Jack you can connect your TV to the S-Video Out Jack on the back of this system. (The S-Video connection cable is not included). The S-Video connection will provide the best picture quality if your TV is equipped to handle S-Video signals. We recommend using the S-Video connection if your TV has an S-Video input jack.

• **TV Connection-Audio (Connection Cables Not Included):**
If your Stereo TV has Left/Right audio output jacks you can listen to the sound of your TV set through the speakers of this system. Connect the Left/Right audio output jacks of your TV set to the Left/Right audio input jacks (AUX 1 or AUX 2) of this system.

• **VCR Connection-Audio (Connection Cables Not Included):**
To listen to the sound from your stereo VCR through the speakers of this system, connect the Left/Right audio output jacks of your stereo VCR to the Left/Right audio input jacks (AUX 1 or AUX 2) of this system.

• **External Decoder Connections - Not Required:**
This DVD player has its own built in Dolby Digital decoder that provides digital 5.1 channel Surround Sound audio from DVD movies encoded with Dolby Digital soundtracks. No external decoders are required. However we have also included both Coaxial and Optical type digital audio output jacks that allow the digital audio signals to be fed to an external Dolby Digital decoder if desired. The Coaxial and Optical digital audio connection cables are not included.

• **Basic Connection Diagram:**
The diagram below represents a typical connection. In this diagram you can view the picture from DVD movie discs on your TV set. You can also play the sound from your stereo TV set and the sound from your stereo VCR through the speakers of this system.

Connecting the AC Power Cord

Notes
•   The Power Requirement is: **AC 120 V, 60Hz**.
•   Connecting to power other than the one listed above may damage the system or cause abnormal operation.
•   Before connecting the AC power cord of this system to a wall outlet, connect the speakers and other component cables to the system.
•   Connect the AC power cord of the active subwoofer.
•   Connect the AC power cords of your TV and any optional components to a wall outlet.

TV set   VCR
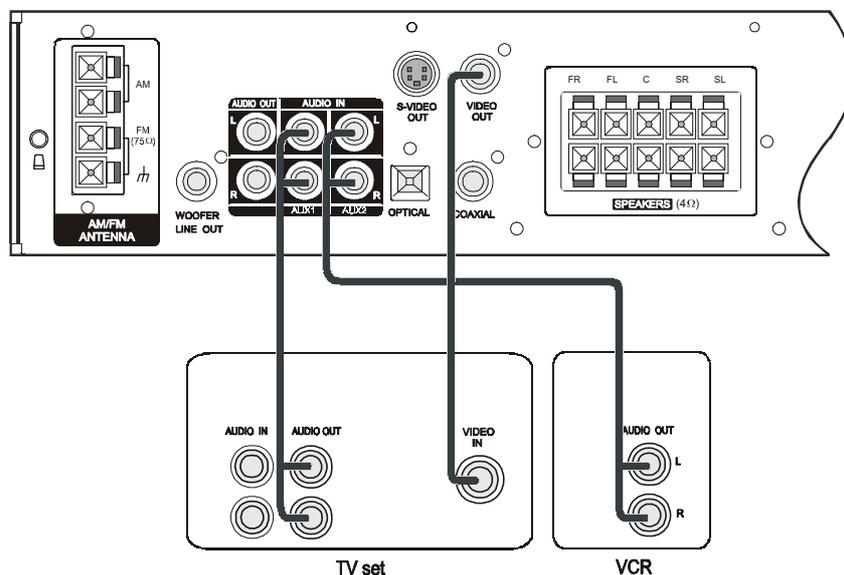
Basic System Set Up

This chapter explains how to properly position your speakers; adjust the individual speaker levels; and preset up to 40 of your favorite AM/FM stations in the digital tuner memory.

Speaker Positioning Information

Your system is supplied with 5 compact sized satellite speakers and one powered subwoofer. The satellite speakers reproduce only the mid range and higher frequencies. All of the low frequency (bass) sounds are produced by the subwoofer. Proper positioning and placement of the speakers is important in order to provide the best surround sound experience. We understand that due to the size and shape of your listening room, and the location of your furniture, you may not be able to set up the speakers exactly as per the diagrams that follow. However these simple guidelines will help you maximize your home theater experience.

- Although all 5 satellites are the same size, the speakers inside the cabinets are different. The speaker terminals on the back of the cabinets are color coded, as are the speaker cables and the speaker terminals on the back of the main unit. Refer to the connection diagram on page 12. Be sure you are using the correct satellite speaker in each location, front, rear and center.

- For best surround effects all 5 of the satellite speakers should be roughly the same distance from your usual listening position.

POSITION ALL 5 SPEAKERS APPROXIMATELY SAME DISTANCE FROM YOUR LISTENING POSITION.

Speaker Positioning Information (Continued)

- The center speaker, as well as the other 4 satellites, can be positioned either vertically or horizontally. Since the center speaker may look more aesthetically pleasing in the horizontal position we have omitted the name plate from the front of the center speaker. We have also included 20 pieces of rubber feet, 4 pieces per satellite speaker, in a small plastic bag with the other accessories. Once you decide how you are going to position the speakers you can put the rubber feet on the bottom of each speaker to prevent them from sliding too easily or perhaps from vibrating if they are sitting on a very smooth surface and the set is being played at high volume. Remove the backing paper from each rubber foot to expose the sticky surface and press the foot firmly into place on the bottom surface of each satellite speaker. Place one foot in each corner of the bottom surface. It is not necessary to use the rubber feet on any of the satellites that will be wall mounted.

- The left front, right front, and center speakers should be placed at roughly the same height. The center speaker reproduces most of the dialog spoken by the actors on the TV screen, therefore it should be placed either directly above or below the center of the TV screen. Once you position the center speaker try to position the left front and right front speakers at the same height. It is not recommended to place any of the satellite speakers on the floor.

- The left rear and right rear speakers can be placed in line with your listening position or behind your listening position. Ideally they should be placed slightly above your ear level when you are seated in your normal listening position. We have provided 2-way keyhole openings on the backs of all the satellite speakers that allow the satellites to be wall mounted in either a vertical or horizontal position.

- The powered subwoofer will provide the most dramatic bass effects when it is placed on the floor. Do not place the subwoofer on a stand or table. Remember that the subwoofer has its own AC cord and must be connected to an AC outlet in addition to being connected to the main unit. When the subwoofer is connected to the AC outlet the LED indicator on the front panel turns red. This indicates that the subwoofer is receiving power and is in the Standby mode. If the system is turned on and operating the subwoofer will automatically switch from the Standby mode to the Active mode whenever it is needed. The LED turns green when the subwoofer is in the Active mode. When no longer needed the subwoofer returns to the Standby mode and the LED indicator turns red again. There is no power switch on the subwoofer. It draws very little current when in the Standby mode so it should always remain connected to the AC outlet. The subwoofer should be placed in the front of the room so that it is facing toward your listening position. It can be placed on either side of the TV or even in the corner of the room, as far away as the cable and the AC cord will allow. The bass sounds from the subwoofer are non-directional. You will not really be able to tell where the bass is coming from.

SATELLITE SPEAKERS

VERTICAL   OR   HORIZONTAL

INSTALL RUBBER FEET AS SHOWN

Left Front   Right Front

Center

**POSITION FRONT/CENTER SPEAKERS
APPROXIMATELY SAME HEIGHT**

**2-WAY
MOUNTING HOLES**

SUBWOOFER

OK

PLACE ON FLOOR

NO
GOOD

NOT ON STAND

Typical Speaker Set Up

- All 5 satellite speakers approximately same distance from your listening position.

- Center speaker directly above (or below) TV screen. Left and right front speakers at same height as center speaker.

- Rear speakers either in line with, or behind listening position, approximately at ear level, or slightly above, when seated.

- Subwoofer on floor near TV, or in corner, facing the listening position.

- All speakers must be visible. Do not hide behind curtains, furniture, etc, as this will affect the sound.

Subwoofer Phase Switch

We have included a Phase Shift switch on the back panel of the subwoofer. This switch allows you to provide a slight increase or decrease in the mid range frequencies of the subwoofer. This may be desirable if your listening room has thick carpeting, heavy curtains, drapes, or furniture that tends to absorb sound. The Phase Shift switch has been set to zero degrees at our factory. There is no 'right' or 'wrong' setting for the subwoofer Phase Shift switch. You can set the switch to the 180 degree position and compare the sound to the original zero degree setting. This is a matter of personal preference. Leave the switch in whichever position sounds the best to you.

BACK PANEL OF SUBWOOFER
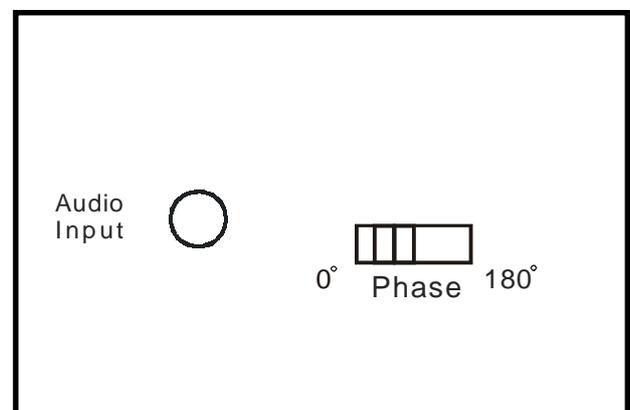
Adjusting The Speaker Levels (TEST TONE)

After you have connected all 6 speakers to the main unit and positioned the speakers as described on the previous page, the next step is to adjust the sound level of each of the 5 satellites, using the Test Tone, so that the level at your normal listening position seems to be the same. This adjustment should be made with the Test Tone only, not while you are watching a DVD movie. Remember that most of the action and dialog in a movie will occur in front of you and the sound will come from the 3 front satellites and the subwoofer. The rear speakers are designed to operate only when there is some action or special sound effects taking place behind you. If you adjust the level of the two rear speakers incorrectly so that you constantly hear sound behind you, you will not get the proper surround effect.
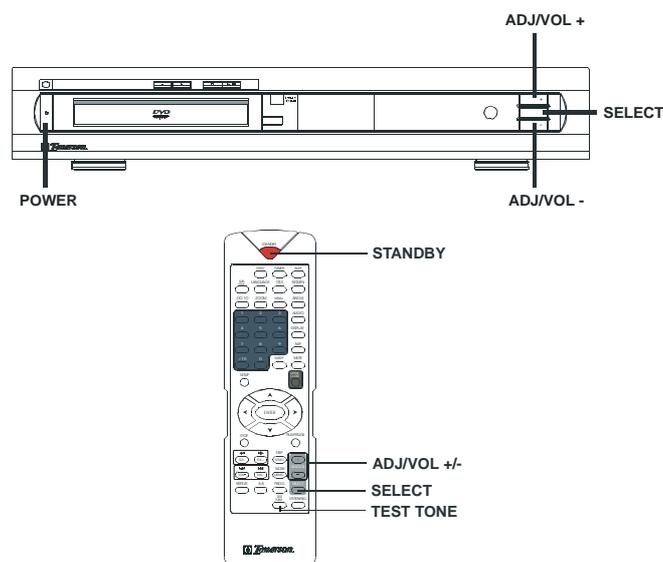
• Press the **POWER** button on the front panel to turn the system ON. The unit will go into the Standby mode.

• Sit in your normal listening position and press the **STANDBY** button on the remote control. The unit will go into the Active mode and the main display will come on and show "NO DISC".

• Turn on your TV. If necessary adjust your TV to select the source which is connected to the Video In (or S-Video In) jack, depending on which jack you used to connect this system to your TV. The Emerson DVD logo screen should appear on your TV together with the words "NO DISC".

1 Press the **TEST TONE** button on the remote control. The test tone sound signal will start at the front right (FR) speaker. After 3 seconds the sound will move to the center (C) speaker, and then to the front left (FL), surround right (SR) and surround left (SL) speakers in succession. The main display and the TV screen will show the word "TEST" and will also indicate which speaker is operating. The test tone continues cycling among the 5 speakers indefinitely.

2 All 5 satellite speakers have been pre-set to the same level (00 db). If the tone signal from all 5 speakers sounds about the same at your normal listening position, no further adjustment is necessary. You can press the **TEST TONE** button again to cancel the test tone function.

   IMPORTANT: It does not matter how loud or soft the test tone signal is. As long as all 5 speakers have the same level you do not need to make any adjustment. You can skip step 3 and go to the next section.

3 If the level of all 5 speakers does not sound the same at your normal listening position you can adjust each speaker up or down 10 db in 1 db steps. For example let's say that the test tone from the two surround speakers sounds lower than the 3 front speakers because the rear speakers are further away from your normal listening position. When the front panel display and the TV screen indicate that the tone is coming from the surround right (SR) speaker, press the **VOL +** button on the remote control to increase the level of that speaker. The front panel and TV screen will show the new level setting. After a few seconds the new setting will be memorized and the test tone will move to the surround left (SL) speaker. Adjust the surround left (SL) speaker in the same manner.

Then listen to the tone from all 5 speakers again to verify that the level sounds the same at your normal listening position. Re-adjust each speaker up or down as required and the press the **TEST TONE** button once more to cancel the test tone function.

Presetting Radio Stations

You can preset up to 40 of your favorite AM and FM stations, in any combination, in the tuner memory for easy recall.
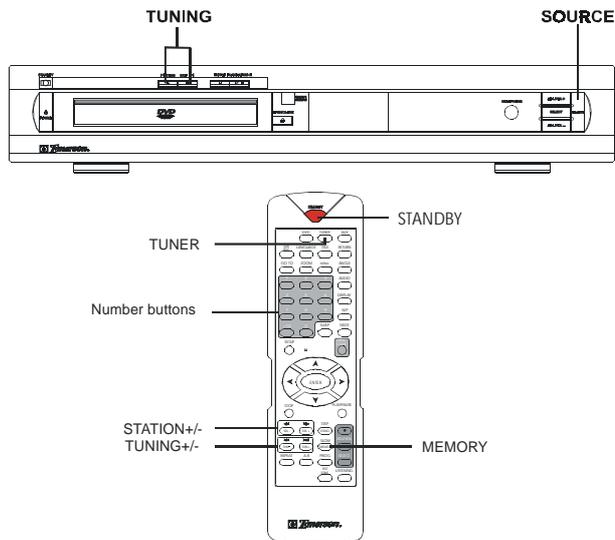
1 Press the **STANDBY** button on the remote control to turn the system On.

2 Press either the **TUNER** button on the remote control, or the **SOURCE** button on the front panel, repeatedly to select the Tuner function and the desired radio band, AM or FM.

3 Tune to the first station you wish to preset.

• Manual Tuning - repeatedly press the **TUNING +/-** buttons on the front panel or the remote control until the desired frequency appears on the display. (Note: You must use manual tuning if your are trying to tune to a weak station.)

• Automatic Tuning - press and hold the **TUNING +/-** button on the front panel or the remote control until the display begins to scan up or down. It will stop on the first strong station it finds. Repeat this process until it stops on your desired station.
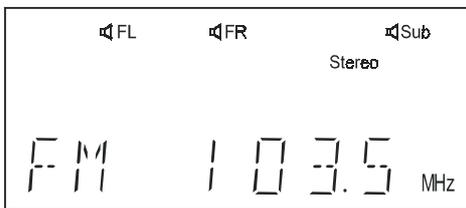
4 When the desired station appears on the display (Example: FM 103.5 MHz) press the **MEMO** button on the remote control. The Memory indicator and "P01" appear in the display indicating that you are ready to enter that station in preset memory #1.
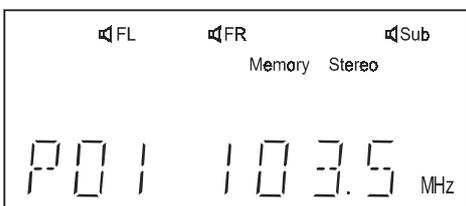
5 Press the **MEMO** button on the remote control again to enter the station into the memory. The Memory indicator and the preset station number disappear and the station is memorized.
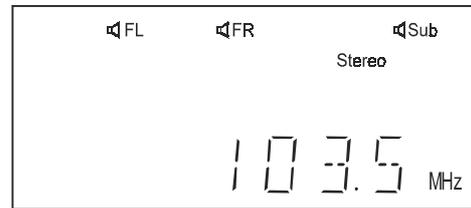
6 To enter the next station in memory follow steps 2 and 3 to tune the desired station and press the **MEMO** button on the remote control. Then press either **STA +** or **STA -** button on the remote control to select another preset memory number, and press **MEMO** again to enter that station in the selected preset memory number.

Note:
You must press the **MEMO** button to memorize a station while the Memory indicator appears in the display (approximately 4 seconds), otherwise the station will not be memorized.

7 Repeat step 6 until you have entered up to 40 stations in the tuner memory.

Recalling Preset Stations

1 Press **STANDBY** button on the remote control to turn the system 'ON' and, if necessary, press the **TUNER** button to select the Tuner function.

2 Press either the **STA +** or **STA -** button on the remote to select the desired preset memory number.

You may also use the number keys on the remote control to go directly to one of the preset memory stations. To select preset stations 1 through 9, press the number key. To select preset station numbers higher than 9 press the ">10" key one or more times followed by the appropriate number key, for example:

To Select Station Number	Press These Keys
10	>10 and 0
15	>10 and 5
21	>10 twice and then 1
34	>10 three times and then 4
40	>10 four times and then 0

Changing Preset Stations
To change any of the preset stations simply tune to the new station you wish to memorize and enter it in the preset memory number you wish to change. The new station will be memorized and the previous station will be erased.

Playing Discs

This chapter describes how to play a DVD / CD / MP3 disc.

Basic Playback

IMPORTANT:
Please note that some DVD movie discs may not have all the features described in this chapter. For example, older movies may not allow you to select multiple camera angles. Refer to the instructions or liner notes that are included with each disc to determine what features and operations are available on that particular disc.
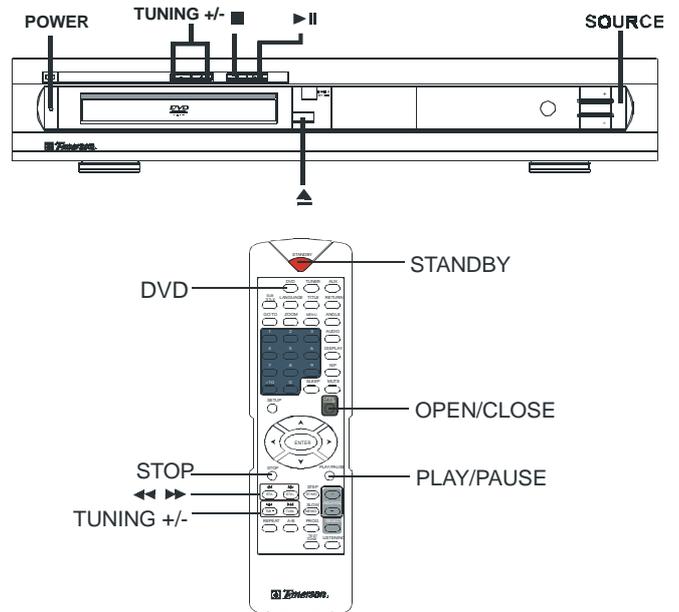
1 Turn on the TV and select the video input so that you can view the pictures from this system.

2 Press the **POWER** button on the front panel to turn on the main power of this system. The front panel display lights up, and the EMERSON DVD logo screen appears on TV.

3 If the system is not in the DVD player mode, press the **DVD** button on the remote control to enter DVD player mode directly, or press the **SOURCE** button on the front panel to select it.

4 Press the ⏏ (**OPEN/CLOSE**) button, and place a disc on the disc tray. Press ⏏ again to close the tray.
The player begins loading the disc. An operating message will appear on the TV screen and/or on the front panel display as follows:

On TV screen	On front panel display
	WAITING
DISC LOADING **	LOADING **
OPEN	OPEN
CLOSE	CLOSE
PLAY	PLAY
NO DISC	NO DISC
BAD DISC	BAD DISC
	DVD/CD/MP3
WRONG REGION (See page 9)	
PARENTAL VIOLATION (See page 37)	

(**NOTE: While the disc is loading the player will not respond to any commands.)

Basic Playback (Continued)

When a disc is inserted the following will occur depending on the type of disc inserted.
- When playing a DVD
  A DVD menu or title menu may appear on the TV screen .
- When playing a CD or MP3
  The CD will begin to play the disc from the first track.

Note:
- While the disc is loading, the player will not respond to any commands.

5 While in the stop mode, press the **PLAY/PAUSE** (▶/II) button to begin playback. When playback begins press the **VOL ADJ +/-** buttons to adjust the volume to a confortable listening level. To shut off the speakers temporarily without stopping playback press the **MUTE** button on the remote control. Press the **MUTE** button again to cancel mute and restore the sound.
During playback press the **PLAY/PAUSE** (▶/II) button again to pause playback temporarily. Press once more to cancel pause mode and resume playback.

6 Press the **STOP**(■) button to stop playback.
In program playback mode, press **STOP**(■) button one time to stop playback. Press it again to clear program memory. (See page 24)

7 When the system is 'On', press the **STANDBY** button on the remote control to turn the system off. The red LED on the front panel lights up.
In standby mode, press this button to turn ON the system. You can also turn the system 'On' by pressing the **SOURCE** button on the main unit.

Slow Motion Playback

8 Press the **SLOW** buttons on the remote control to play a disc in slow motion.
If the disc is a DVD, press this button repeatedly to select the following slow-motion speed: SF1 ➝ SF2 ➝ SF3 ➝ SR1 ➝ SR2 ➝ SR3 ➝ normal play.

Notes:
- SF: Slow Forward
  SR: Slow Reverse
- The larger the number, the slower the speed.
- This function is not available for CD and MP3.
- On some discs, the slow-motion playback function is not available. See the disc jacket for information.

Frame By Frame Advance

9 Press the **STEP** button repeatedly to advance the disc step by step (one frame at a time).

Note
- This function is not available for CD and MP3.

10 Press the **PLAY/PAUSE** (▶/II) button to resume normal playback.

Locate a Point Quickly

11 Press the ▶▶ or ◀◀ button while playing a disc.
The player will search the disc fast forward or reverse. When you find the point you want, press the ▶/II button to return to the normal forward playback speed.

Change the searching speed
You can change the searching speed by pressing the ▶▶ or ◀◀ button repeatedly.
- If the playing disc is a DVD, you can select the following search speeds: FF1, FF2, FF3, FF4; or FR1, FR2, FR3, FR4.
- If the playing disc is a CD, you can select the following of search speeds: FF1, FF2; or FR1, FR2.

Notes:
- This function is not available for MP3.
- The larger the number is, the faster the searching speed.
- For CD, when the searching goes to the end of one track, the player will begin to play the next track at normal speed.

Skip Next or Previous

12 Press the ▶▶I or I◀◀ button while playing a disc.
The playback will go to the next or previous title, chapter or track in continuous play mode.

Notes:
- Press the **DISPLAY** button on the remote control to view the title, chapter, track and time on the front panel display or/ and TV screen. See page 26 for more information about the **DISPLAY** button.
- If the REPEAT-ONE function has been selected, pressing the ▶▶I or I◀◀ button will replay the same chapter (or track or title) from its beginning.
- If the REPEAT-ALL function has been selected, pressing the ▶▶I or I◀◀ button repeatedly will skip to select all the chapters (or tracks) in a title (or disc) cyclically.

Understanding the Individual DVD Disc Menu

Using the title menu

A DVD is divided into long sections of a picture or a music piece called "titles". Normally, a title is composed of several chapters. When you play a DVD which contains several titles, you can select the title (or chapter) you want using the title menu.

TITLE

Number buttons

ENTER

RETURN

◄ / ► / ⋏ / ⋎
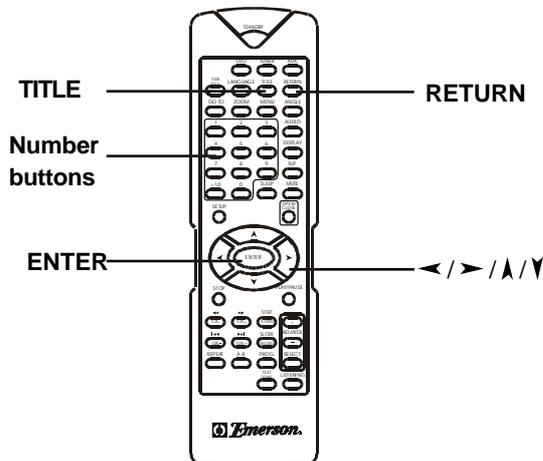
1 Press the **TITLE** button while playing a DVD disc.
"TITLE MENU" will be shown on TV screen for a moment, and then the title menu appears. The contents of the menu vary from disc to disc.

2 While the title menu appears on the screen, press the ⋏ / ⋎ / ◄ / ► buttons to select the title (or chapter) you want to play.
Depending on the disc, you can use the number buttons (**0~9 / >10**) to select the title (or chapter).

3 Press the **ENTER** button.
The player starts playing the selected title (or chapter).

Notes:
• Depending on the DVD disc, you may not be able to select the title or chapter.
• Depending on the DVD disc, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.
• For some DVD discs, when you press the **TITLE** button, the playback will restart from the beginning of the disc.

Using the root menu

A DVD may contain a "root menu". Some titles or chapters are recorded in the root menu.

1 Press the **RETURN** button while playing a DVD disc.
"ROOT MENU" will be shown on TV screen for a moment, and then the root menu appears. The contents of the root menu vary from disc to disc.

2 While the root menu appears on the screen, press the ⋏ / ⋎ / ◄ / ► buttons to select the title (or chapter) you want to play.

Depending on the disc, you can use the number buttons (**0~9 / >10**) to select the title (or chapter).

3 Press the **ENTER** button.
The player starts playing the selected title (or chapter).

Notes:
• Depending on the DVD disc, you may not be able to enter the root menu.
• For some DVD discs, when you press the **RETURN** button, the playback will restart from the beginning of the disc.

Using the DVD menu

Some DVDs allow you to select the language for the subtitles, the language for the sound, etc., using the DVD menu.

1 Press the **TITLE** button while playing a DVD disc.
The DVD menu appears on the TV screen. The contents of the menu vary from disc to disc.

2 While the title menu appears on the screen, press the ⋏ / ⋎ / ◄ / ► buttons to select the item you want to change. Depending on the disc, you can use the number buttons (**0~9 / >10**) to select the item.

3 To change other items, repeat Step 2.

4 Press the **ENTER** button **.**

Note:
• You can set a preferred language for audio and subtitles in the SETUP menu. For details, see page 36.

Repeat Playback

You can play all of chapters in a title or on a disc repeatedly.
You can play all of tracks on a disc repeatedly.
You can play a single title, chapter or track repeatedly.
In program play mode, the system repeats the chapters or tracks in the programmed order.
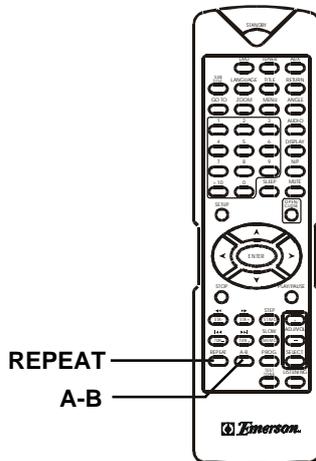
1 Press the **REPEAT** button while playing a disc.

2 If you are playing a DVD continue pressing the REPEAT button to select one of the following repeat modes in sequence: Chapter Repeat On → Title Repeat On → Repeat Off.

3 If you are playing a CD continue pressing the REPEAT button to select one of the following repeat modes in sequence: Repeat One Track → Repeat All Tracks →Repeat Off.

The front panel display will show the following message:
[R-1]: means Chapter Repeat On or Repeat One Track.
[R-A]: means Title Repeat On or Repeat All Tracks.

Notes:
• You cannot select repeat playback while the disc is stopped.
• Some DVDs do not allow repeat playback function.

A-B Repeat Playback

You can play a specific portion in a chapter or track repeatedly. This is useful when you want to memorize lyrics or repeatedly watch a portion of the DVD over and over.

1 When playing a disc, press the **A-B** button one time to set the starting point "A" of the specific portion you want to play repeatedly.
The "[A-]" indicator appears on the front panel display.

2 When reaching the end point "B" you want, press the **A-B** button a second time.
The "[A-B]" indicator appears on the front panel display. The player starts to play the specific portion from point "A", and will continue playing this portion repeatedly unitl you cancel the A-B repeat function.

3 Press the **A-B** button again to cancel this setting and resume playback in normal order.

Notes:
• The point "A" and "B" can be set only in the same chapter or track.
• You can set A-B repeat on only one specific portion at a time.
• A-B repeat is canceled when:
  - you stop playback.
  - you open the disc tray.
  - you turn the power off, the A-B button is pressed again.
• Some DVDs do not allow A-B repeat playback function.

Program Play (Audio CDs only)

You can play the contents of the disc in the order you want by arranging the order of the tracks on the disc to create your own program. One program can be stored in the system and contain up to 99 tracks.

Note
- This function is not available for DVD and MP3 disc.

Number buttons

STOP ■   ►❚❚ PLAY / PAUSE
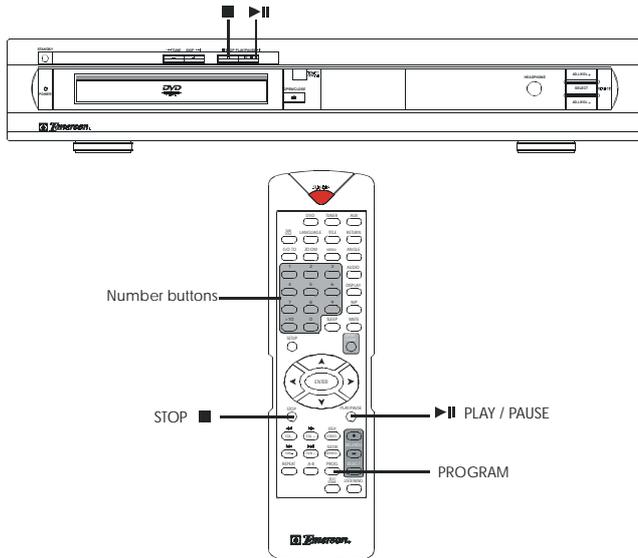
PROGRAM

1 In stop mode, press the **PROGRAM** button to enter program registration mode. The programming display appears on the TV screen and the front panel display.

Program play indicator lights up
on the front panel display

Memory

P 00:00

Program   Track
number   number
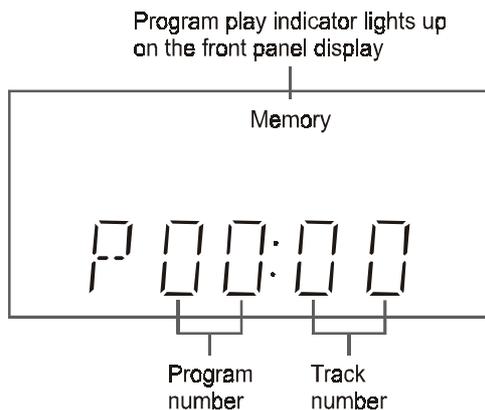
2 Use the number buttons (**0~9 />10**) to key in the track numbers in the order you want. If the track number is more than 10, use >10 and the number button. Example: Press >10 and then 5 to select track 15. Program number will automatically advance to next number as you enter each track number.
  If the programmed numbers have reached the maximum limit (P99:--) and you key in track number again, the "FULL" indicator will appear on the TV screen and the front panel display.

3 After you have completed the above program registration , press the **PLAY/PAUSE** (►/❚❚) button to start the program play.

Note:
- If you press the **STOP** (■) button or other foreign buttons in the program setting mode, the system will interrupt and exit the program setting mode.

4 In program play mode, press the **STOP** (■) button to stop program play, but the program sequence remains in memory.

Notes:
- The program remains even after the program play ends. When you press the **PLAY/PAUSE** (►/❚❚), you can play the same program again.
- You can do repeat play of the programmed tracks by pressing the **REPEAT** button while in the program play mode.

5 To cancel program play, press the **STOP** (■) button a second time.
  The "Memory" indicator on the front panel display will disappear.

Notes:
- The program sequence is also canceled when:
  - you open the disc tray.
  - you turn the power off.
  - you press the **STOP** (■) button twice.

Selecting a Start Point by Chapter or Time Code

**Note:**
- This function is not available for CD and MP3.

GO TO

Number buttons

ENTER
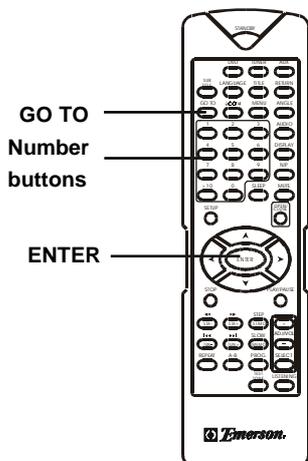
TO SELECT A STARTING CHAPER

1 Press the **GO TO** button. The following menu appears on the TV screen.

TITLE 02 / 05   CHAPTER   **001** / 006

2 Use the ◄ or ► button to select title number or chapter number.

TITLE 02 / 05   CHAPTER   **001** / 006

TITLE **02** / 05   CHAPTER   001 / 006

Use the number buttons (**0~9 / >10**) to input the title or chapter number you want.

3 Press **ENTER** to play your selection.

TO SELECT A STARTING TIME:

You can search by inputting the time code.
The time code corresponds to the approximate actual playing time. For example, to search for a scene 2 hours 30 minutes 20 seconds past the beginning, key in 02:30:20.

1 Press the **GO TO** button twice to enter time menu as shown below.

TITLE 02 / 05   TIME - - : - - : - -

2 Use the number buttons (**0~9 / >10**) to input the the desired time code.
For example, key in 0, 1, 2, 3, 4, 5.

TITLE 02 / 05   TIME   01 : 23 : 45

3 Press **ENTER** to start playing (from the point of 01:23:45).

4 Press the **GO TO** button again to exit time menu screen.

Notes:
- If the title number, chapter number or time code you input does not exist on the disc, the system will not execute your selection and the selecting menu will disappear.
- The selecting menu will disappear within a few seconds if you do not input a valid number.

Selecting a Track Using Number Buttons

You can select a track directly using the number (**0~9 / >10**) buttons

- In play or stop mode, press the number button to select the track you want. The system will go to the beginning of the selected track and start playing it.
- If the track number is more than 10, use the **>10** button. The number will increase by 10 whenever you press **>10** once. For example, you want to select the track number 25, press the **>10** button twice, then press **5** button.

Note:
- This function is not available for DVD.

Checking Disc Information Using Display Button

You can check information about the disc, such as the total number of the titles or chapters, tracks or time, using the Display function. The information you want appears on the TV screen and/or on the front panel display.

When playing back a DVD

1 Press the **DISPLAY** button once, the information about title number, chapter number and title elapsed time appears on the TV screen as shown below.

```
TITLE  02 / 05   CHAPTER  001 / 006
00 : 34 : 56  TI : 02 / 05  CH : 001 / 006
```

2 Press the **DISPLAY** button a second time to check the title remaining time.

```
TITLE REMAIN
00 : 34 : 56  TI : 02 / 05  CH : 001 / 006
```

3 Press the **DISPLAY** button a third time to view the chapter elapsed time

```
CHAPTER ELAPSED
00 : 01 : 23  TI :  02 / 05  CH : 001 / 006
```

4 Press the **DISPLAY** button a fourth time to view the chapter remaining time

```
CHAPTER REMAIN
00 : 03 : 21  TI : 02 / 05  CH : 001 / 006
```

5 Press the **DISPLAY** button a fifth time, the information display function will turn off.

Notes:
- The above information does not appear on the front panel display.
- On certain DVDs, the title number, chapter number or time may not appear or you may not be able to change the display.

Note:
- For CD, the information about track and time appears simply on the front panel display, as shown below.

Track number   Time code
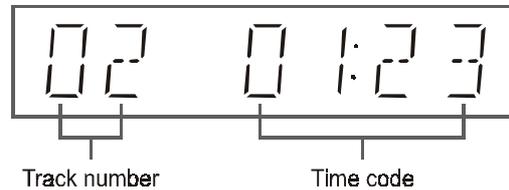
When playing back an MP3 encoded CD

1 Press the **DISPLAY** button to view the track number and the single track elapsed time on the TV screen.

```
SINGLE ELAPSED
  00 : 01 : 23   TRACK  001 / 160
```

2 Press the **DISPLAY** button again to turn the information display off.

Note:
- The information about track and time appears simply on the front panel display, as shown below.


Track number   Time code
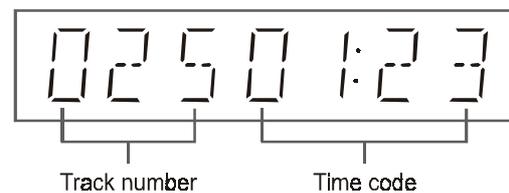
Settings and Adjustments

This chapter explains how to use the SETUP MENU to adjust various functions and controls. We have preset all of the functions and controls of this system at our factory to the preferred settings for the system to be used in North America. In most cases the original default settings should not be changed. However you may want to change certain default settings such as the language for the audio, the on screen displays, the subtitles, the parental control level, etc. Follow the instructions in this chapter to change those settings. Keep in mind that when you change a default setting your new setting becomes the new default and remains in the system memory until you either change that individual setting again, or reset all the defaults to the original factory settings.

Using the SETUP Menu and Navigation Buttons (⋏ / ⋎ /◄ / ►)

- The SETUP Menu contains a listing of all of the optional settings that are included in this home theater system. They have all been preset to the correct positions for using the system in North America and with the 6 speakers which were included when you purchased this system.

- To check or change any of the settings you must first go to the SETUP Menu Main Page, and then select one of the 4 pages which appear on the main page. Press the **SETUP** button on the remote control to access the SETUP Menu Main Page. The Main Page will appear on your TV screen.

```
┌──────────────────────────────────┐
│      SETUP MENU -- MAIN PAGE       │
│                                    │
│   GENERAL SETUP                    │
│   SPEAKER SETUP                    │
│   DOLBY DIGITAL SETUP              │
│   PREFERENCES                      │
│                                    │
│   EXIT SETUP                       │
│                                    │
│                                    │
│                                    │
│ GOTO GENERAL SETUP PAGE            │
└──────────────────────────────────┘
```
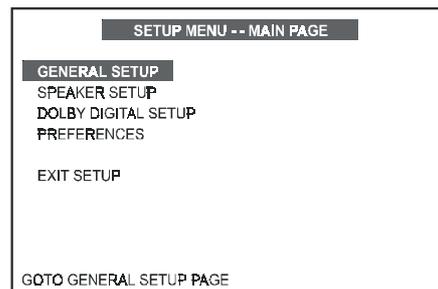
- Press the (⋏ / ⋎) buttons to "highlight" one of the four pages which appear on the Main Page, and then press the **ENTER** button to select the "highlighted" page. The selected page will appear on the TV screen.

```
┌──────────────────────────────────┐
│         - - GENERAL PAGE - -       │
│                                    │
│   TV DISPLAY          NORMAL / PS  │
│   TV TYPE             NORMAL / LB  │
│   VIDEO OUT           WIDE         │
│   ANGLE MARK                       │
│   OSD LANG                         │
│   AUDIO OUT                        │
│   SCR SAVER                        │
│                                    │
│   MAIN PAGE                        │
│                                    │
│ SET TV DISPLAY MODE                │
└──────────────────────────────────┘
```
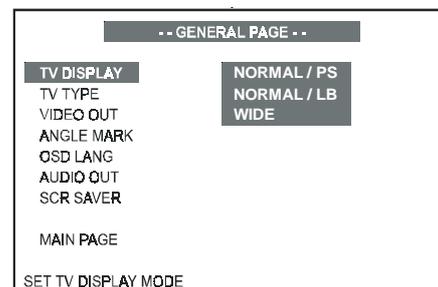
Notes:
- The Preferences Page cannot be selected while a disc is playing. If a disc is playing press the **SETUP** button again to exit the SETUP Menu page and press the **STOP** button to stop playback. Then press the **SETUP** button again to re-enter the Main Page. The Preferences Page can now be selected.

When the selected page is opened, use the (⋏ / ⋎) buttons to "highlight" one of the settings on the page. The options for the "highlighted" setting will appear in the right column. One of those options will already be "highlighted". This is the factory default setting. Use the (►) button to move into the right column, and then use the (⋏ / ⋎) buttons to scroll up or down to select a new setting. When the desired setting is "highlighted", press the **ENTER** button to select the highlighted setting. This will become the new default setting.

If you want to change any other settings use the (◄) button to move back to the left column and then use the (⋏ / ⋎) arrows to select the next item to be changed. If you are finished making changes press the **SETUP** button again to exit the SETUP Menu. The menu page disappears from the TV screen.

SETUP Menu Listing

Following is a listing of all of the possible options for each setting in this system, as they appear on the menu pages. The factory default setting for each item is underlined. Before you decide to change any of the factory default settings please review the specific explanation of each setting on the following pages to be sure you understand how the change will effect the operation of your system.

```
SETUP MENU - - MAIN PAGE

  GENERAL SETUP
  SPEAKER SETUP
  DOLBY DIGITAL SETUP
  PREFERENCES
```

```
GENERAL PAGE
 -TV DISPLAY
              ...NORMAL/PS
              ...NORMAL/LB
              ...WIDE
 -TV TYPE
              ...MULTI
              ...NTSC
              ...PAL
 -VIDEO OUT
              ...CVBS
              ...RGB
              ...YUV
 -ANGLE MARK
              ...ON
              ...OFF
 -OSD LANG
              ...ENGLISH
              ...SPANISH
              ...FRENCH
              ...ITALIAN
              ...GERMAN
 -AUDIO OUT
              ...ANALOG
              ...SPDIF/RAW
              ...SPDIF/PCM
 -SCR SAVER
              ...ON
              ...OFF
 -MAIN PAGE
```

```
SPEAKER SETUP PAGE
 -AUDIO MODE
              ...STEREO
              ...VSS
              ...PRO LOGIC
              ...5.1CH
              ...LT/RT
 -CENTER
              ...ON
              ...OFF
 -REAR
              ...ON
              ...OFF
 -SUBWOOFER
              ...ON
              ...OFF
 -CNTR DELAY
              ...5 MS
              ...4 MS
              ...3 MS
              ...2 MS
              ...1 MS
              ...OFF
 -REAR DELAY
              ...15 MS
              ...12 MS
              ...9 MS
              ...6 MS
              ...3 MS
              ...OFF
 -BASS MODE
              ...CONFIG 1
              ...CONFIG 2
 -MAIN PAGE
```

```
DOLBY DIGITAL SETUP
 -DUAL MONO
              ...STEREO
              ...L MONO
              ...R MONO
              ...MIX MONO
 -DYNAMIC
              ...FULL
              ...7/8
              ...6/8
              ...5/8
              ...4/8
              ...3/8
              ...2/8
              ...1/8
              ...OFF
 -MAIN PAGE
```

```
PREFERENCES PAGE
 -AUDIO
              ...ENGLISH
              ...SPANISH
              ...FRENCH
              ...ITALIAN
              ...GERMAN
 -SUBTITLE
              ...ENGLISH
              ...SPANISH
              ...FRENCH
              ...ITALIAN
              ...GERMAN
              ...OFF
 -DISC MENU
              ...ENGLISH
              ...SPANISH
              ...FRENCH
              ...ITALIAN
              ...GERMAN
 -PARENTAL
              ...1 G
              ...2
              ...3 PG
              ...4 PG13
              ...5
              ...6 PG-R
              ...7 NC-17
              ...8 ADULT
              ...NO PARENTAL
 -PASSWORD
              ...CHANGE
 -DEFAULTS
              ...RESET
 -MAIN PAGE
```

TV Display Setting

Path: Main Page ➔ General Page ➔ TV Display

```
- - GENERAL PAGE - -

TV DISPLAY          NORMAL / PS
TV TYPE             NORMAL / LB
VIDEO OUT           WIDE
ANGLE MARK
OSD LANG
AUDIO OUT
SCR SAVER

MAIN PAGE

SET TV DISPLAY MODE
```
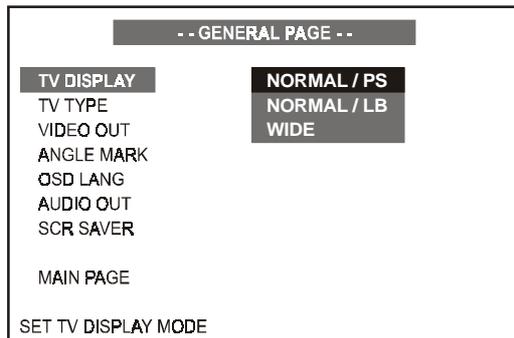
Selects the aspect ratio of the TV set to be connected.
• NORMAL/PS (4:3 Pan & Scan mode):Used when you connect a normal TV to the system. Displays a wide picture on the whole TV screen with a portion (right and left sides of the picture) automatically cut off.
• NORMAL/LB (4:3 Letterbox mode): Used when you connect a normal TV to the system. Displays a wide picture with bands displayed on the upper and lower portions of the screen.
• WIDE (16:9 Wide-screen mode): Used when you connect a wide-screen TV to the system.

NORMAL/PS
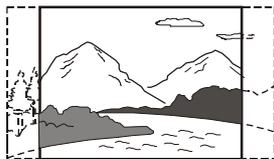
NORMAL/LB
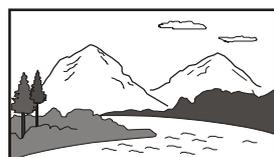
WIDE

Notes:
• Some wide-screen discs that do not permit Pan & Scan mode playback are automatically played in Letterbox mode.
• Depending on the DVD, 4:3 Letterbox may be selected automatically instead of 4:3 Pan & Scan and vice versa.
• You must also set the screen mode on your wide-screen TV to "FULL".
• If WIDE is selected and a normal TV is connected, 16:9 content will appear distorted during playback (objects look thin).

TV Type Setting (Multi/ NTSC/ PAL)

If you live in North America your TV broadcast system is NTSC, your TV set is either a NTSC TV or a multi system TV, and the DVD movies you buy or rent will be labeled NTSC system. The initial Default TV Type setting of this system is "Multi". This setting will allow NTSC discs to play properly on both NTSC TVs and multi system TVs. If you live in North America no further adjustment is necessary. You can skip to the next section.

If you wish to change the TV Type setting follow the 3 steps below.

1 Press **SETUP** button to enter SETUP MENU. Use ⋀ / ⋁ to select GENERAL SETUP (see page 27), and then press **ENTER** button.

2 Highlight TV TYPE using ⋀ / ⋁, then press ➤ button to go to the right option list. Select MULTI, NTSC or PAL using ⋀ / ⋁, then press **ENTER** to confirm your selection.

```
- - GENERAL PAGE - -

TV DISPLAY
TV TYPE             MULTI
VIDEO OUT           NTSC
ANGLE MARK          PAL
OSD LANG
AUDIO OUT
SCR SAVER

MAIN PAGE

SET TV STANDARD
```
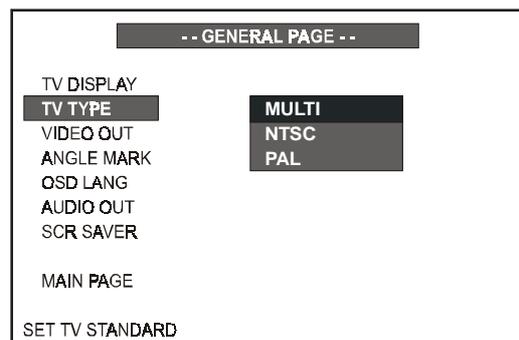
3 Press **SETUP** again to exit SETUP MENU.

Note:
• You can change the color system of the unit temporarily without changing the Default setting by pressing the **N/P** (NTSC / PAL) button on the remote control. However when the power is switched off, or the disc drawer is opened, the TV type will automatically revert back to the initial Default setting.

Video Output Setting

The initial Default Video Output Mode setting for this system is "CVBS" which is the correct setting when you are connecting this system to your TV using either the Video Out jack or the S-Video out jack. There is no need to change the video output mode setting.

If you do change the video output mode setting to either "RGB" or "YUV" you will not see any video output because this system does not have RGB or YUV output jacks. The RGB and YUV settings are only used on other variations of this system which have additional RGB and YUV video output jacks.

The 3 steps below indicate how to select a different video output setting. They are for information only. Your system has been preset to the CVBS setting and it must remain in the CVBS setting in order to view the picture on your TV.

1 Press **SETUP** button to enter SETUP MENU. Use ⋏ / ⋎ to select GENERAL SETUP (see page 27), and then press **ENTER** button.

2 Highlight VIDEO OUT using ⋏ / ⋎, then press ➤ button to go to the right option list. Select CVBS, RGB or YUV using ⋏ / ⋎, then press **ENTER** to confirm your selection.

```
- - GENERAL PAGE - -

TV DISPLAY
TV TYPE
VIDEO OUT          CVBS
ANGLE MARK         RGB
OSD LANG           YUV
AUDIO OUT
SCR SAVER

MAIN PAGE

SET PICTURE MODE
```
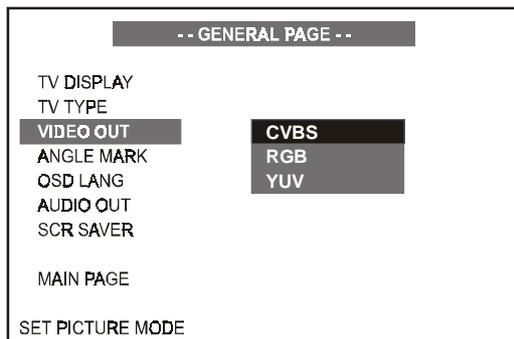
3 Press **SETUP** again to exit SETUP MENU.

Angle Mark Setting

Path: Main Page ➔ General Page ➔ Angle Mark

```
- - GENERAL PAGE - -

TV DISPLAY
TV TYPE
VIDEO OUT
ANGLE MARK        ON
OSD LANG          OFF
AUDIO OUT
SCR SAVER

MAIN PAGE

ANGLE MARK ON / OFF
```
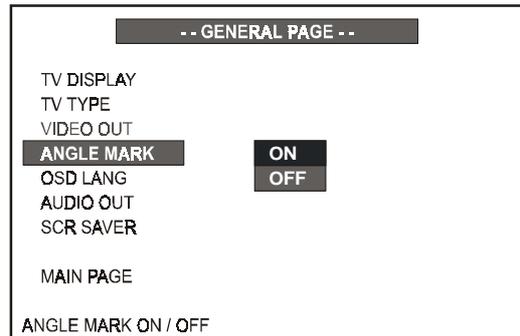
Some DVD movies contain scenes which were filmed from multiple angles simultaneously. If the scene you are watching was shot from multiple angles, the angle icon 📷: 1/4 will appear on the screen. You may then press the angle button on the remote to select the alternate angles. The default Angle Mark setting is 'On'. If you change the setting to 'Off' the angle icon will not appear, even if the scene was shot from multiple angles.

- ON: 📷: 1/4 appears on the TV screen.
- OFF: 📷: 1/4 does not appear.
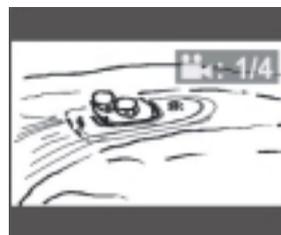
| Angle mark is on	Angle mark is off

Note:
- You can change the angles using the **ANGLE** button. For details, see page 41.

Selecting the On Screen Display (OSD) Language

We have preset the initial Default On Screen Display (OSD) Language to English. This means that all of the on screen menus and icons will appear in English. If English is your preferred language no adjustment is necessary and you can skip to the next section.

If you wish to change the On Screen Display (OSD) Language to something else, your choices are German, Italian, French or Spanish. Follow the 3 steps below to select a different On Screen Display (OSD) language.

SETUP

ENTER

ʌ / ʏ / ◄ / ►
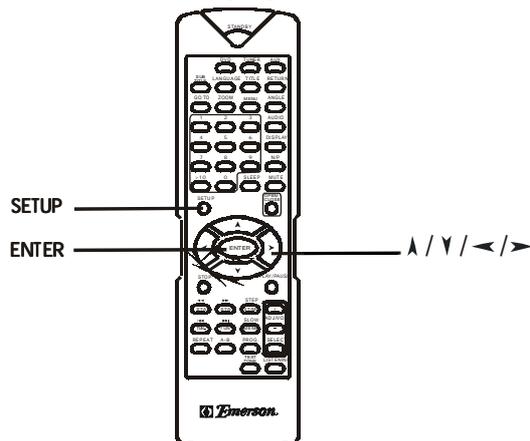
1 Press **SETUP** button to enter SETUP MENU. Use ʌ / ʏ to select GENERAL SETUP, and then press **ENTER** button.

```
SETUP MENU - - MAIN PAGE

GENERAL SETUP
SPEAKER SETUP
DOLBY DIGITAL SETUP
PREFERENCES

EXIT SETUP


GOTO GENERAL SETUP PAGE
```
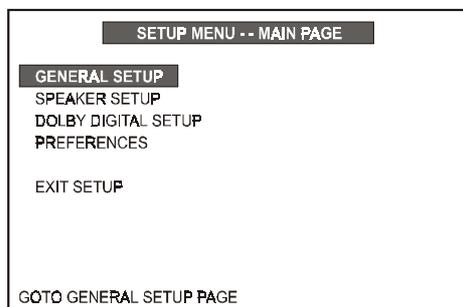
2 Highlight OSD LANG using ʌ / ʏ, then press ► button to go to the right option list. Select the desired language using ʌ / ʏ, then press **ENTER** to confirm your selection.

```
- - GENERAL PAGE - -

TV DISPLAY
TV TYPE
VIDEO OUT
ANGLE MARK                ENGLISH
OSD LANG                  SPANISH
AUDIO OUT                 FRENCH
SCR SAVER                 ITALIAN
                          GERMAN
MAIN PAGE

SET OSD LANGUAGE
```
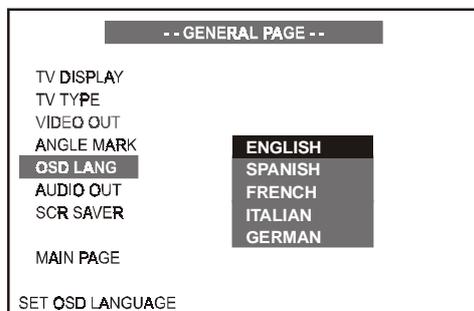
3 Press **SETUP** again to exit SETUP MENU.

Note:
• If the disc you are viewing does not support the On Screen Display (OSD) language you selected the player will automatically default to the language specified on the disc itself.

Selecting the Audio Out (Output) Mode

You system is supplied with 5 satellite speakers and one subwoofer. We assume that you are going to connect these 6 speakers to the respective speaker output terminals on the back panel of the main unit. Therefore we have set the initial Default Audio Out mode setting to "Analog". If you are connecting the 6 speakers to the main unit (or if you are connecting the Left / Right Audio Out jacks on this unit to an external receiver or amplifier) the proper Audio Out mode setting is "Analog". No further adjustments are required and you can skip to the next section.

If you are planning to connect the Coaxial or Optical digital audio output jacks on this system to an external receiver with its own built in Dolby Digital and /or MPEG decoder follow the 3 steps below to select the SPDIF/RAW Audio Out mode.

If you are planning to connect the Coaxial or Optical digital audio output jacks on this system to an external receiver that accepts PCM (Pulse Code Modulation) audio signals follow the 3 steps below to select the SPDIF/PCM Audio Out mode.

1 Press **SETUP** button to enter SETUP MENU. Use ʌ / ʏ to select GENERAL SETUP (see page 27), and then press **ENTER** button.

2 Highlight AUDIO OUTPUT using ʌ / ʏ, then press ► button to go to the right option list. Select ANALOG, SPDIF/RAW or SPDIF/PCM using ʌ / ʏ, then press **ENTER** to confirm your selection.

```
- - GENERAL PAGE - -

TV DISPLAY
TV TYPE
VIDEO OUT
ANGLE MARK
OSD LANG
AUDIO OUT                 ANALOG
SCR SAVER                 SPDIF/RAW
                          SPDIF/PCM
MAIN PAGE

SELECT AUDIO OUTPUT
```
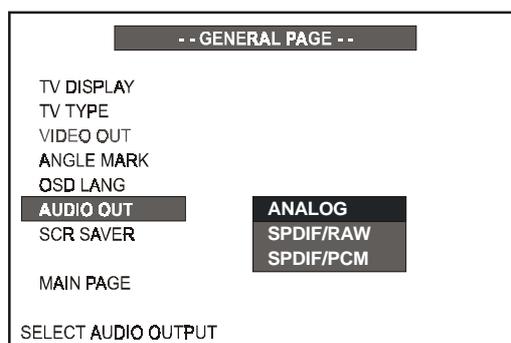
3 Press **SETUP** again to exit SETUP MENU.

Notes:
• If you select the SPDIF/RAW Audio Out mode and your audio source is either a DVD or an audio CD the output from the Coaxial and Optical audio output jacks will be PCM.
• In the Analog (Default) Audio Out mode setting there will be no output from the Coaxial or Optical digital audio output jacks.
• If the Audio Out mode is not set correctly you may not get any sound output at all, or you will not get true 5.1 channel digital audio output.

Screen Saver Setting (SCR Saver)

Path: Main Page ➔ General Page ➔ SCR Saver

```
- - GENERAL PAGE - -
TV DISPLAY
TV TYPE
VIDEO OUT
ANGLE MARK
OSD LANG
AUDIO OUT
SCR SAVER          ON
                   OFF
MAIN PAGE

SCREEN SAVER
```
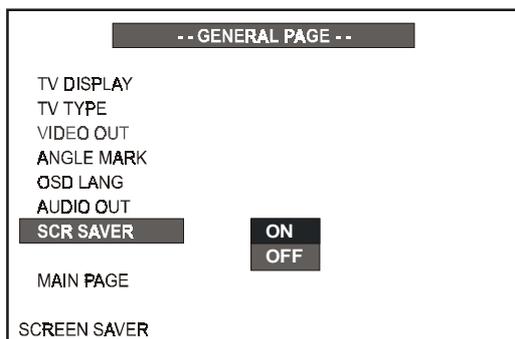
Turns the screen saver option on or off.
If you turn the screen saver on, the screen saver image appears when you leave the system in pause or stop mode for more than 1 minute. The screen saver is useful to prevent your display from becoming damaged.
• ON: Turns the screen saver on.
• OFF: Turns the screen saver off.

Audio Mode Setting

Path: Main Page ➔ Speaker Setup Page ➔ Audio Mode

```
- - SPEAKER SETUP PAGE - -
AUDIO MODE        STEREO
CENTER            VSS
REAR              PROLOGIC
SUBWOOFER         5.1 CH
CNTR DELAY        LT / RT
REAR DELAY
BASS MODE

MAIN PAGE

SET AUDIO MODE
```
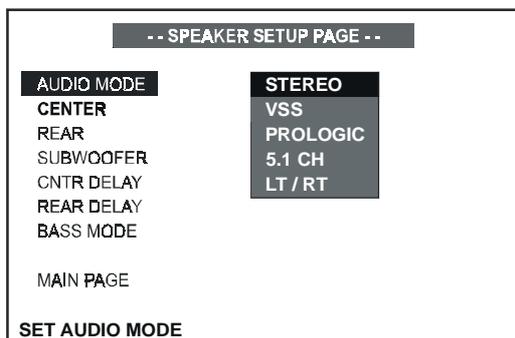
The Audio Output Mode setting adjusts itself automatically to match the type of audio on the disc you are playing.

• If you play a DVD movie disc which has either a Dolby Digital audio soundtrack, the "5.1" mode is selected automatically and sound is heard from all 5 satellites and the subwoofer. If you play a DVD which has a Dolby Surround / Pro Logic sound track the "Pro Logic" mode is selected automatically and sound is heard from all 5 satellites and the subwoofer.

Note:
If you are playing a DVD movie disc with Dolby Digital soundtrack and you do not hear sound from all 5 satellites remember to check the default settings in the menu of the disc you are playing. If the default setting of that specific disc is 'Stereo' you will not get any output from the center or rear satellite speakers. Refer back to page 22 for info on how to change the individual disc default settings.

• If you play a DVD with a stereo soundtrack, or an audio CD, the Pro Logic 'Stereo' mode is selected. Sound will only be heard from the left and right front speakers and the subwoofer. However you may then press the 'Listening' mode button on the remote control to select other Pro Logic modes and activate the center and/or rear satellite speakers. Refer to "Selecting Listening Modes" on page 44 for additional information.

• The VSS (Virtual Surround Sound) setting can provide a surround sound feeling from normal audio CD's or stereo broadcasts by causing a slight delay in the sound between the left front and right front speakers.

• The LT/RT Audio Out mode should only be used if you are feeding the audio signal from the left and right audio output jacks on the back panel of this unit to an external Dolby Pro Logic decoder. If you select the LT/RT Audio Out mode you may not have any output from the speakers connected to this system.

Note:
When the "5.1" mode is selected, there will be no audio output at left and right audio output jacks on the back panel of this unit.

Center Speaker Setting

The default setting for the center speaker is 'On'. It must be left 'On' to enjoy the Dolby Digital soundtracks from DVD movies. It is not necessary to shut the center speaker off. When you play an audio CD, or a movie that only has a stereo soundtrack, no sound will be heard front the center speaker.

Highlight CENTER using ʌ / ˅, then press ➤ button to go to the right option list. Select ON or OFF using ʌ / ˅, then press **ENTER** to confirm your selection.

```
-- SPEAKER SETUP PAGE --

AUDIO MODE
CENTER            ON
REAR              OFF
SUBWOOFER
CNTR DELAY
REAR DELAY
BASS MODE

MAIN PAGE

SETUP CENTER SPEAKER
```

Rear Speaker Setting

The default setting for the rear speakers is 'On'. It must be left 'On' to enjoy the Dolby Digital soundtracks from DVD movies. It is not necessary to shut the rear speakers off. When you play an audio CD, or a movie that only has a stereo soundtrack, no sound will be heard from the rear speakers.

Highlight REAR using ʌ / ˅, then press ➤ button to go to the right option list. Select ON or OFF using ʌ / ˅, then press **ENTER** to confirm your selection.

```
-- SPEAKER SETUP PAGE --

AUDIO MODE
CENTER
REAR              ON
SUBWOOFER         OFF
CNTR DELAY
REAR DELAY
BASS MODE

MAIN PAGE

SETUP REAR SPEAKER
```

Subwoofer Setting

Your system was supplied with speaker CONFIGURATION 1, which means 5 small satellite speakers that reproduce the mid range and high frequencies, and one subwoofer which reproduces all of the low frequency (bass) sounds. Since the Bass Mode setting is set to CONFIGURATION 1 (see page 34) you cannot adjust or turn off the subwoofer unless you first change the Bass Mode setting. The subwoofer setting must remain 'on' or you will not hear any bass sounds at all.

Highlight SUBWOOFER using ʌ / ˅, then press ➤ button to go to the right option list. Select ON or OFF using ʌ / ˅, then press **ENTER** to confirm your selection.

```
-- SPEAKER SETUP PAGE --

AUDIO MODE
CENTER
REAR
SUBWOOFER         ON
CNTR DELAY        OFF
REAR DELAY
BASS MODE

MAIN PAGE

DO YOU HAVE A SUBWOOFER?
```

Center Delay Setting

Path: Main Page ➔ Speaker Setup Page ➔ CNTR Delay

```
-- SPEAKER SETUP PAGE --

AUDIO MODE
CENTER
REAR
SUBWOOFER
CNTR DELAY
REAR DELAY
BASS MODE

MAIN PAGE

SET CENTER DELAY
```
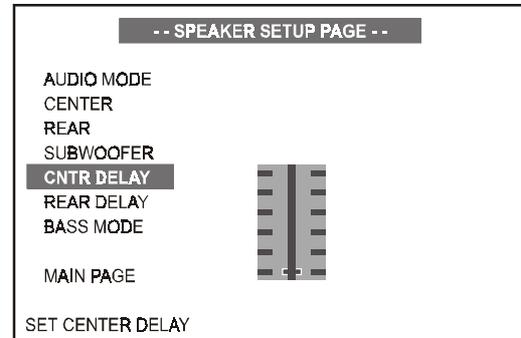
This setting allows you to create a slight delay in the sound coming from the center speaker compared to the front left and right speakers. This may be preferable if the center speaker is closer to your listening position than the front left and right speakers. The center delay options are "Off" (no delay), the default setting, to 5MS (5 milliseconds) delay.

Rear Delay Setting

Path: Main Page➔ Speaker Setup Page➔ Rear Delay

```
-- SPEAKER SETUP PAGE --

AUDIO MODE
CENTER
REAR
SUBWOOFER
CNTR DELAY
REAR DELAY
BASS MODE

MAIN PAGE

SET SURROUND DELAY
```

This setting allows you to create a slight delay in the sound coming from the rear speakers compared to the front and center speakers. This may be preferable if the rear speakers are closer to your listening position than the front and center speakers. The rear delay options are "Off" (no delay), the default setting, to 15MS (15 milliseconds) delay.

Bass Mode Setting

```
-- SPEAKER SETUP PAGE --

AUDIO MODE
CENTER
REAR
SUBWOOFER
CNTR DELAY
REAR DELAY
BASS MODE            CONFIG 1
                     CONFIG 2
MAIN PAGE

SET SURROUND DELAY
```

The default setting is CONFIGURATION 1 because your system was supplied with Speaker Configuration 1, which means 5 compact size satellite speakers and one subwoofer. The CONFIGURATION 1 setting directs all of the bass sounds to the subwoofer only. While the Bass Mode is set to CONFIGURATION 1 the subwoofer cannot be switched off and the bass level of the front speakers cannot be adjusted.

In the future if you decide to replace the compact front left and right satellite speakers with larger full range speakers that can also produce deep bass sounds, you can change the Bass Mode default setting to CONFIGURATION 2. This will allow you to switch the subwoofer 'off' and will also allow you to adjust the bass level of the front speakers.
(See "Adjusting the Volume and Tone Controls" on page 39)
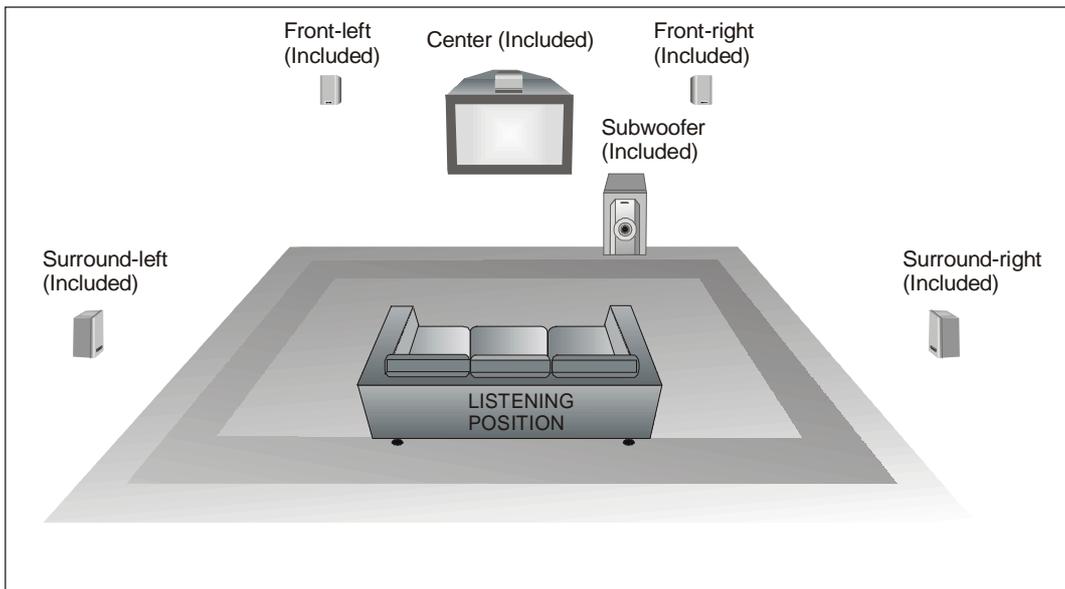
CONFIGURATION 1 must be selected when using the 5 satellites and subwoofer which were included with your system.
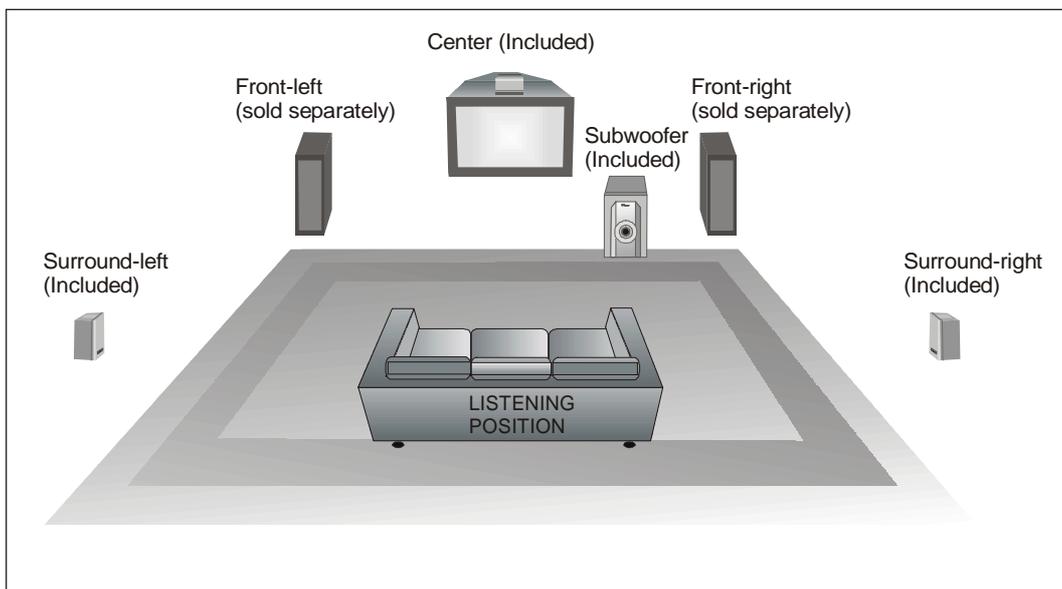
CONFIGURATION 2 should only be selected if the left and right front satellites are replaced by larger full range left and right front speakers.

Dual Mono Setting

Path: Main Page➞Dolby Digital Setup➞Dual Mono

```
          --DOLBY DIGTAL SETUP--

   DUAL MONO          STEREO
   DYNAMIC RNG        LEFT MONO
                      RIGHT MONO
                      MIXED MONO



     MAIN PAGE


   DUAL MONO(1+1)SETUP
```
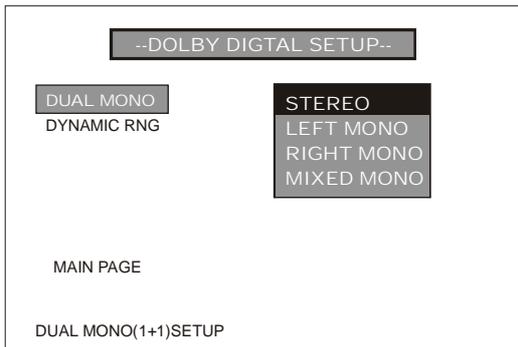
Default Setting: STEREO
Select the Dual Mono reproduction mode to support dual
mono programs.
• STEREO: Reproduces both channels as stereo.
• LEFT MONO: Only reproduces left mono signal to FL and
   FR channels.
• RIGHT MONO: Only reproduces right mono signal to FL and
   FR channels.
• MIXED MONO: Reproduces both channels mixed together.

Dynamic Range Setting

Path: Main Page➞Dolby Digital Setup➞Dynamic RNG

```
        - - DOLBY DIGITAL SETUP - -

   DUAL MONO
   DYNAMIC




     MAIN PAGE

   DYNAMIC RANGE COMPRESSION
```
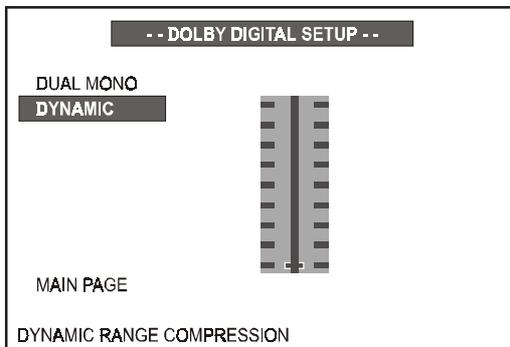
Default Setting: FULL
In many listening situations, it is objectionable to allow the
sound to become very loud, and thus the loudest sounds must
be compressed downwards in level. Likewise, the very quiet
sounds would be inaudible and must be brought upwards in
level to be heard. Dolby Digital satisfies these needs through
the dynamic range controlling.
Select the dynamic range compression to fit the individual
listening situation of the audience. The variable range is from
FULL, 7/8 to 1/8, or OFF.
• FULL: Audio with fully compressed dynamic range.
• 7/8~1/8: Audio with partially compressed dynamic range.
• OFF: Audio with uncompressed dynamic range.

Note:
• The Dual Mono and Dynamic Range settings only support
   Dolby Digital programs.

Selecting the Language for Audio

Note
• You cannot enter the Preferences Page during playback. You must stop playback before setting the preferences.

Path: Main Page ➞ Preferences Page ➞ Audio

Selects the preferred language for the audio (dialog).
• ENGLISH
• SPANISH
• FRENCH
• ITALIAN
• GERMAN
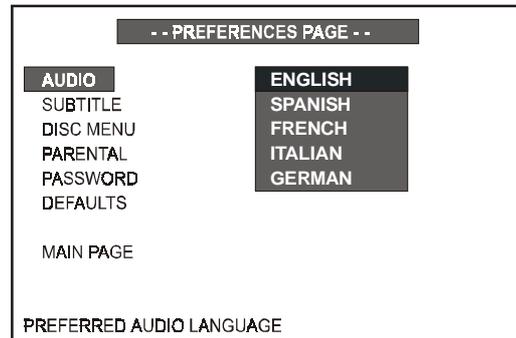
```
- - PREFERENCES PAGE - -

AUDIO            ENGLISH
SUBTITLE         SPANISH
DISC MENU        FRENCH
PARENTAL         ITALIAN
PASSWORD         GERMAN
DEFAULTS

MAIN PAGE

PREFERRED AUDIO LANGUAGE
```

Notes:
• When you select a preferred language that is not recorded on the DVD, one of the recorded languages is automatically selected.
• You can select any language recorded on the disc by pressing **LANGUAGE** button when playing a DVD disc (see page 41).

Selecting the Language for Subtitles

Path: Main Page ➞ Preferences Page ➞ Subtitle

Selects the preferred language for subtitles.
• ENGLISH
• SPANISH
• FRENCH
• ITALIAN
• GERMAN
• OFF
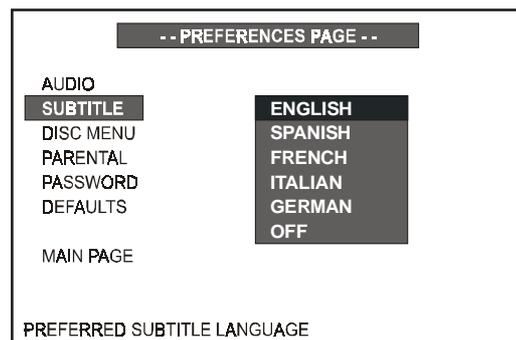
```
- - PREFERENCES PAGE - -

AUDIO
SUBTITLE         ENGLISH
DISC MENU        SPANISH
PARENTAL         FRENCH
PASSWORD         ITALIAN
DEFAULTS         GERMAN
                 OFF
MAIN PAGE

PREFERRED SUBTITLE LANGUAGE
```

Notes:
• When you select a preferred language that is not recorded on the DVD, one of the recorded languages is automatically selected.
• You can select any subtitle language recorded on the disc by pressing the **SUBTITLE** button when playing a DVD disc. See page 41.

Selecting the Language for Disc Menu

Path: Main Page ➞ Preferences Page ➞ Disc Menu

Selects the preferred language for Disc Menu.
• ENGLISH
• SPANISH
• FRENCH
• ITALIAN
• GERMAN

```
- - PREFERENCES PAGE - -

AUDIO
SUBTITLE
DISC MENU        ENGLISH
PARENTAL         SPANISH
PASSWORD         FRENCH
DEFAULTS         ITALIAN
                 GERMAN
MAIN PAGE

PREFERRED MENU LANGUAGE
```
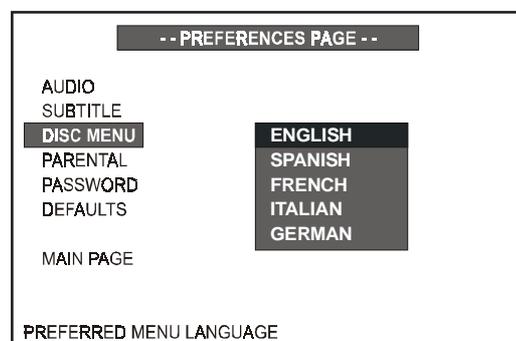
Note:
• When you select a preferred language that is not recorded on the disc, one of the recorded languages is automatically selected.

Setting the Parental Control Level

Path: Main Page → Preferences Page → Parental

```
- - PREFERENCES PAGE - -

AUDIO                  1  G
SUBTITLE               2
DISC MENU              3  PG
PARENTAL               4  PG13
PASSWORD               5
DEFAULTS               6  PG-R
                       7  NC-17
MAIN PAGE              8  ADULT
                          NO_PARENTAL

SET PARENTAL CONTROL
```

```
- - PASSWORD VERIFY PAGE - -

INPUT PASSWORD:




PLEASE ENTER PASSWORD
```
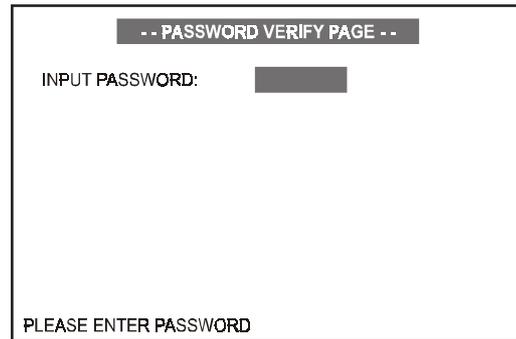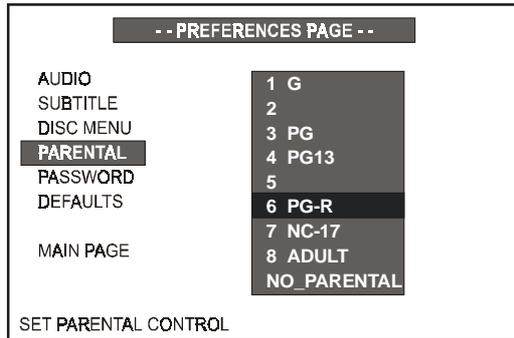
Playing some DVD discs can be limited depending on the age of the users. The parental control function in this system allows playback limitation level to be set by the parent. The default setting is "NO-PARENTAL".

Notes:
• The lower the level is set, the stricter the limitation is imposed.
• If the parental control level of the loading DVD disc is higher than the setting level, the "PARENTAL VIOLATION" message will be shown on the TV screen, and the system will refuse to play the disc.
• To change the parental control level, a correct 4 digit password must be entered on the remote control.
• The original default password is "3308".
• Hide this owner's manual so children cannot change the parental settings.

Changing the Parental Control Password

Path: Main Page → Preferences → Password → Change

To change the parental control password from the original factory setting of "3308" follow the path shown above to 'highlight' the "CHANGE" heading. Press **ENTER** and the "Password Change Page" will appear.

Use the number keys on the remote to enter the old password "3308". Only "XXXX" will appear as you enter the numbers. Then enter a new 4 digit password in the "NEW PASSWORD" box, and enter it again in the "CONFIRM PWD" box. Press **ENTER** once more to change the password from "3308" to the new 4 digit password which you entered.

```
- - PASSWORD CHANGE PAGE - -

  OLD PASSWORD:
  NEW PASSWORD:
  CONFIRM PWD:




PLEASE ENTER OLD PASSWORD
```
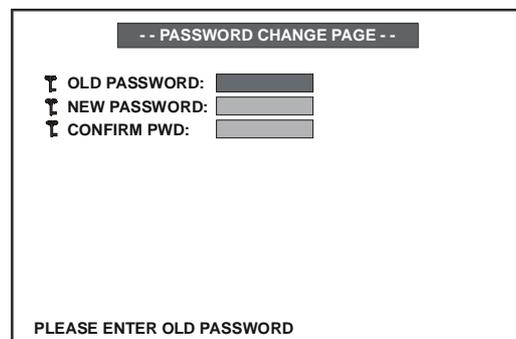
Resetting the Parental Control Password

If you eventually forget your new password you can reset the password to the original "3308" factory default setting as follows:

1 Exit the SETUP MENU and stop playback. The EMERSON DVD logo screen appears on the TV.

2 Depress the **VOL+** button first, and while holding the **VOL+** button press the **STEP** button on the remote control. "PARENTAL CODE CANCELED" will appear on the bottom of the screen and the password reverts back to the original "3308" factory default setting.

Notes:
- You can only reset the parental password by the above procedure.
- You cannot reset the password from the Password Change Page or the Default Reset Page!
- When you depress the **VOL+** button to reset the password the master volume level will increase. After resetting the password be sure to reset the master volume to the desired level.

MASTER VOLUME: 15

PARENTAL CODE CANCELED
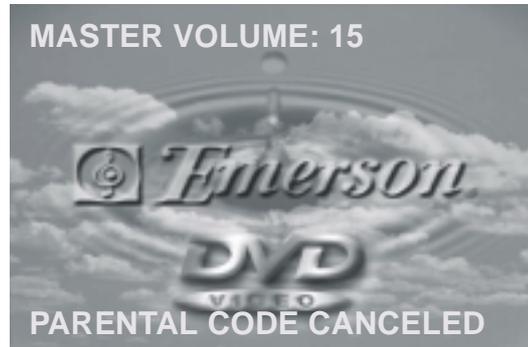
# Returning to the Original Factory Default Settings

Path: Main Page ➞ Preferences Page ➞ Defaults

Select "RESET" and then press **ENTER** button.
All of the items in the SETUP menu will return to their original default settings.The default selections are shown and underlined on page 28.

Note
- All default settings are underlined in this manual.
- The parental control and its unlocking password will not be reset.

```
-- PREFERENCES PAGE --

AUDIO
SUBTITLE
DISC MENU
PARENTAL
PASSWORD
DEFAULTS              RESET

MAIN PAGE

LOAD FACTORY SETTINGS
```
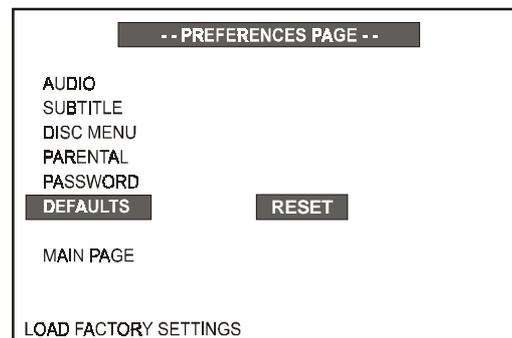
Special Functions

This chapter describes how to use some special functions, such as subtitle selection, angle selection , etc.

Adjusting the Volume and Tone Controls

Note:
While the Bass Mode is set to CONFIGURATION 1 (see page 34) the default setting, all bass sounds are directed to the subwoofer only. You cannot adjust the bass level of the 5 compact satellite speakers. These 5 satellite speakers are designed to reproduce the mid and high frequency (treble) sounds only.
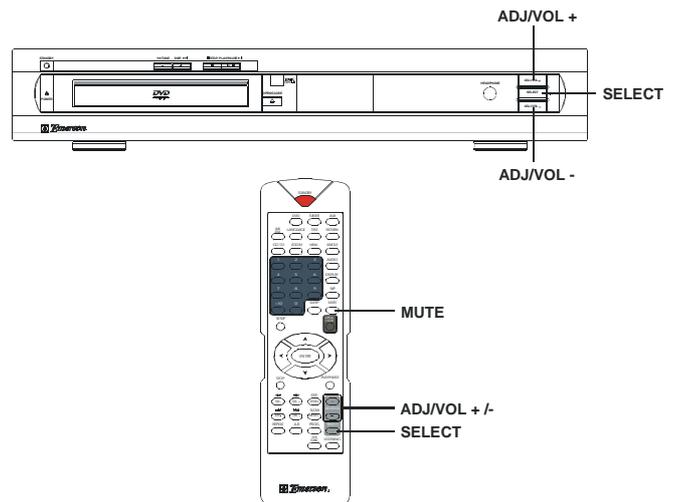
- To increase or decrease the treble level of the satellite speakers, begin playback of a DVD movie disc that has a Dolby Digital soundtrack. When playback begins press the **SELECT** button on the remote control. "TREBLE LEVEL: 00 db" will appear on the TV screen and on the front panel display.

- When the Bass Mode is set to CONFIGURATION 2, the bass level can be adjusted in the same way as treble level.

- Immediately press the **VOL ADJ +/-** buttons to increase or decrease the treble level of all 5 satellites simultaneously. The adjustment range is plus or minus 10db in 2db steps.

Note:
You must make the adjustment while the treble level appears in the display. If the treble level indicator disappears, the setting will not be changed. When you change the setting the new setting becomes the default setting until you change it again.

- To raise or lower the master volume press the **VOL ADJ +/-** button on the remote control. The level of all 6 speakers will be increased or decreased together.

Adjusting the Volume and Tone Controls (Continued)

- To raise or lower the volume of one or more speakers individually, insert a DVD movie disc with Dolby Digital soundtrack and begin playback. Then press the **SELECT** button on the remote control to select the 6 speakers in the following sequence:

TREBLE LEVEL → FRONT LEFT → CENTER → FRONT RIGHT → SURROUND RIGHT → SURROUND LEFT → SUBWOOFER → TREBLE LEVEL → etc

- When the desired speaker level appears on the TV screen and front panel display, immediately press the **VOL ADJ +/-** buttons to raise or lower the level of that particular speaker. The adjustment range is plus or minus 10db in 1db steps. You must adjust the setting while the speaker level appears on the screen. If the speaker level indicator disappears, the setting will not be changed.

Note:
If the video disc you are playing has a stereo soundtrack, or you are playing an audio CD, you will only see the level indicators for the left and right front speakers and the subwoofer. You will not be able to adjust the treble or volume level of the center speaker or the two rear speakers.

Picture Zooming

1 Press the **ZOOM** button on the remote control during normal, slow or still (pause) playback.
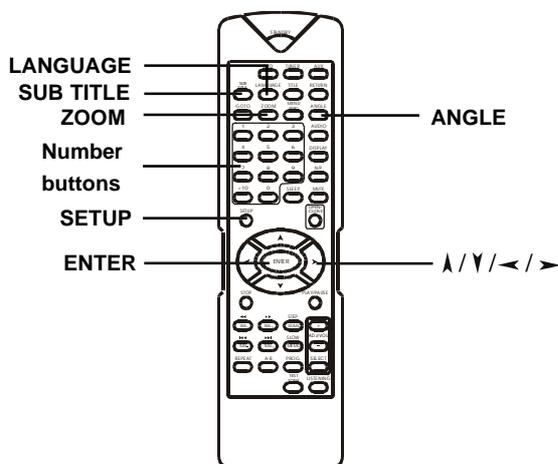
2 If you press the **ZOOM** button repeatedly, the magnification level increases. Three magnification levels are available. On each press of **ZOOM**, the following message will appear on the TV screen.
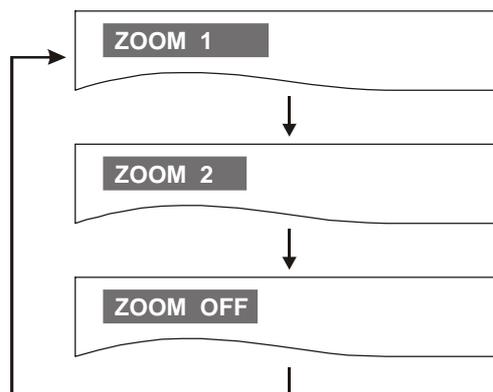
Notes:
- If you press the ⋏ / ⋎ / ⋖ / ⋗ buttons, the zoom point shifts, allowing you to pan the zoomed picture.
- Some discs may not respond to the zoom feature.
- Zooming does not work on subtitles or menu screens included on DVDs.
- The magnification level varies depending on the TV DISPLAY selection in the SETUP menu.

Angle Selection

Some DVD discs contain scenes which have been shot simultaneously from a number of different angles. For these discs, the same scenes can viewed from each of the different angles. (The recorded angles differ from disc to disc.)

1 While playing a title shot from different angles, the angle mark appears on the TV screen. This feature can be turned off, see page 30.

**2** Press the **ANGLE** button to change the scenes from one angle to other angle(s).

 Number changes to show the number of recorded angles (1/4 → 2/4 → 3/4 → 4/4, etc.)

Note:
• The maximum number of angles allowed is 9.

Example: Sequence of angles shot.
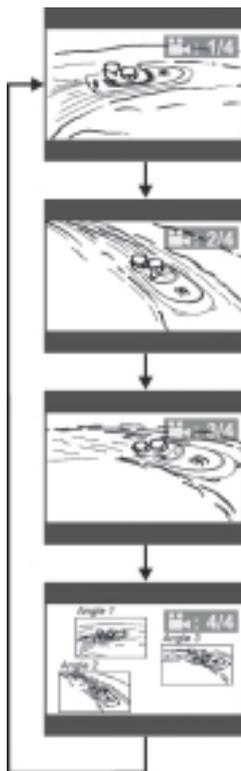
Subtitle Language Selection

Note
• This function can only be used for DVD discs on which subtitles have been recorded in multiple languages.

While playing a DVD disc, press the **SUBTITLE** button repeatedly to select the desired language for subtitle. The subtitle is displayed in new language immediately.

Notes:
• The first press shows the current selection. Continue pressing to select other subtitle languages.
• Some DVDs display subtitles automatically, and cannot be turned off even if you set the subtitle function to off.
• During some scenes, the subtitles may not appear immediately after you turn them on.
• Some DVDs allow you to make subtitle selections and turn subtitles on or off only via the disc menu. Use ʌ / ʏ /≺ / ≻ and **ENTER** buttons.
• The maximum number of subtitle languages stipulated by the manufacturer is 32.
• You can set a preferred language for subtitle in the SETUP menu, see page 36.

Audio Language Selection

Note
• This function can only be used for DVD discs on which audio has been recorded in multiple languages.

While playing a DVD disc, press the **LANGUAGE** button repeatedly to select the desired language for audio, and playback then continues in the desired language.

Notes:
• The first press shows the current selection. Continue pressing to select other languages.
• Some DVDs allow you to change audio selections only via the disc menu. Use ʌ / ʏ /≺ / ≻ and **ENTER** buttons.
• The maximum number of audio languages stipulated by the manufacturer is 8.
• You can set a preferred audio language, see page 36.

Depending on the DVD disc, you may be able to change the audio format (including audio coding type, number of channels recorded and audio language) using the **LANGUAGE** button. The relevant message appears on the TV display as shown below.

AUDIO 2/8: AC-3 5.1CH ENGLISH

Other Functions

This chapter describes how to use some functions contained in the system, i.e. listen to the radio, how to listen to an external source, how to select a listening mode and how to use the sleep timer.

Listening to the Radio

To listen to preset radio stations

Preset radio stations into the system′s memory first (see "Presetting Radio Stations" on page 18).

TUNING +/-   SOURCE

STANDBY
TUNER

Number
buttons

STATION + /-   ADJ/VOL + /-
TUNING + /-
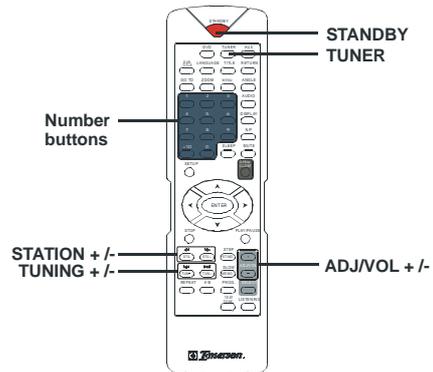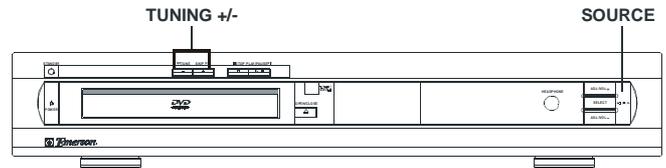
1 Press the **SOURCE** button on the main unit repeatedly until "FM" or "AM" appears on the front panel display.
You can also press the **TUNER** button to select FM or AM directly.
The last received station is tuned in.
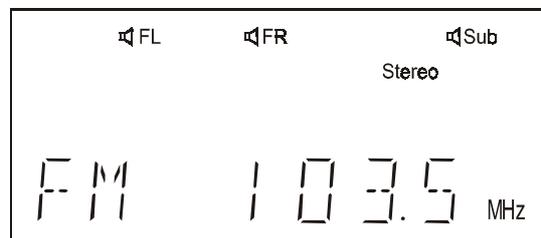
2 Press the **STA +** or **STA -** button repeatedly to select the preset station you want. Each time you press the button, the system tunes in one preset station at a time.

You can also use the number buttons to select a preset station number directly.

3 Adjust the volume level by pressing the **ADJ/VOL +** or **-**.
This system has a built in Dolby Pro Logic decoder, so you can enjoy the live sound in Dolby Surround. For details, see "Selecting Listening Modes" on page 44.

4 To turn off the radio, press the **STANDBY** button.

Listening to the Radio (Continued)

To listen to non-preset radio stations
Use manual or automatic tuning in step 2.
For manual tuning, press **TUNING** (▲ or ▼) repeatedly.
For automatic tuning, press and hold **TUNING** (▲ or ▼) until the frequency indicator starts to change automatically, then release the button.

If an FM program is noisy
Press **MONO/STEREO** button on the remote control so that "MONO" appears on the front panel display. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.

To improve reception
Reorient the supplied antennas.

Listening to an External Source

If other audio component(s) are connected to this system (see page 14), you can hear the external source through the speakers of this system.
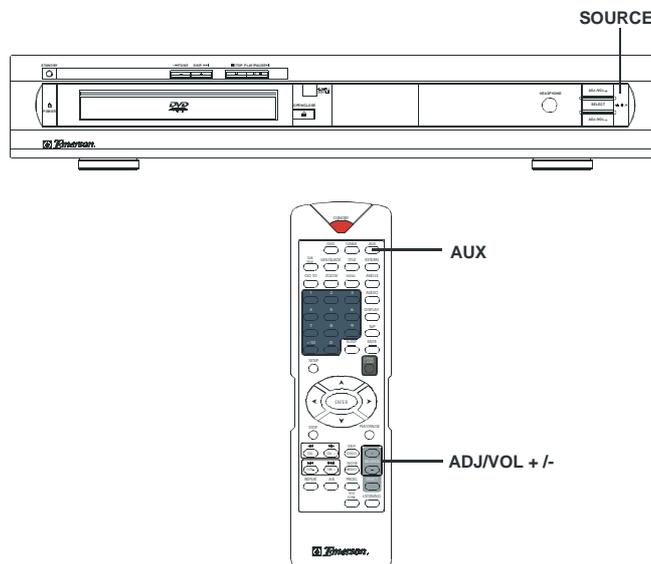
1 Press the **SOURCE** button repeatedly until "AUX1" or "AUX2" appears on the front panel display.
You can also press the **AUX** button to select the desired external source directly.
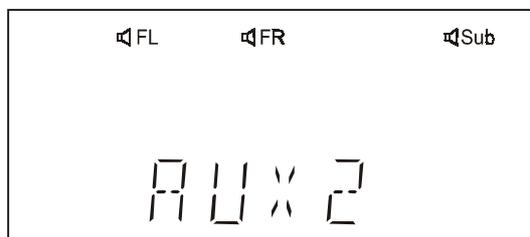
2 Operate the unit which is connected to this system.

3 Adjust the volume level by pressing the **ADJ/VOL +** or **-**.
This system has a built in Dolby Pro Logic decoder, so you can enjoy the live sound in Dolby Surround. For details, see "Selecting Listening Modes" on page 44.

Selecting Listening Modes

This system has a built in Dolby Pro Logic decoder. It can transform the stereo or PCM signal to Dolby Surround signal so that you can enjoy surround sound from normal 2 channel stereo broadcast and recordings.
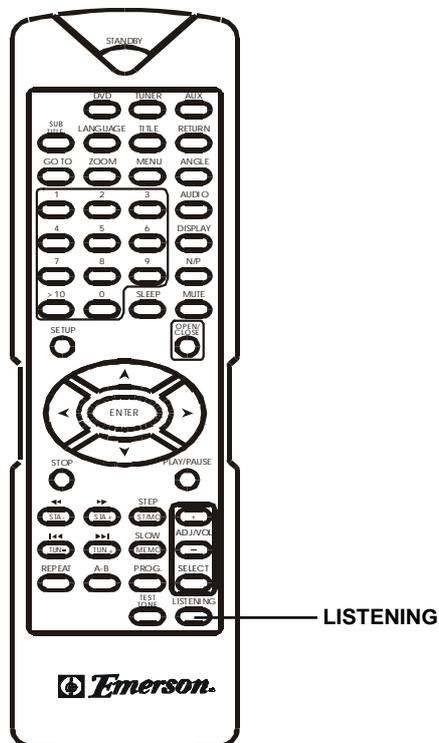
LISTENING

When listening to a CD, the radio, or external source, press the **LISTENING** button repeatedly to select the following listening modes cyclically.

Pro Logic Normal → Pro Logic Phantom → Pro Logic Wide → 3-Stereo Normal → 3-Stereo Wide → Stereo

The relevant indicators appear on the front panel display.

Notes:
- Before you press the listening button please lower the volume level to reduce the possibility of speaker damage.
- If you are listening to a mono broadcast or recording select the Stereo setting for best results. Do not select one of the surround sound settings.

Using the Sleep Timer

You can set the system to turn off automatically at a specified time.
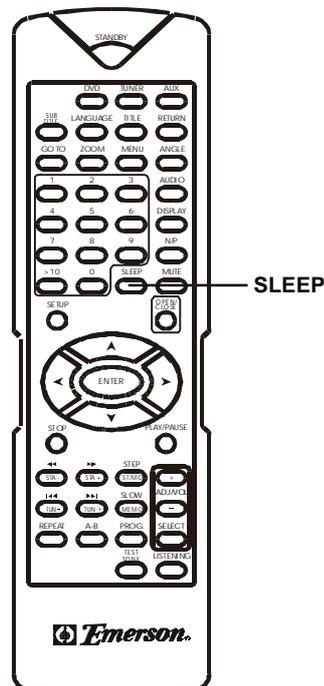
SLEEP

1 Press the **SLEEP** button while the power is on.
Each time you press **SLEEP**, the time changes as shown below.
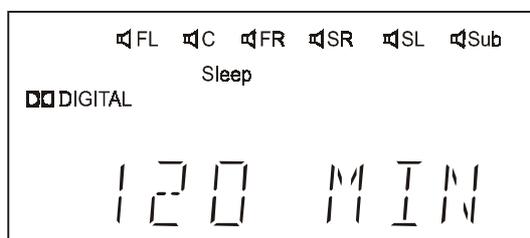
120 (minutes)→ 110 → 100 → 90 → 80 → 70 → 60 → 50 → 40→ 30 → 20 → 10 → 00 (OFF)→ 120→ ...

When you have specified the time, the "Sleep" indicator lights on the front panel display.

2 If you want to reset the time, you can press **SLEEP** button again to change it.

3 You can check the time remaining before the system turns off.
Press **SLEEP**, the remaining time appears on the front panel display for a few seconds.

4 To cancel SLEEP, press **SLEEP** button until it reaches 00 (OFF).

Additional Information

Troubleshooting

If you experience any of the following difficulties while using the system, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest service center by calling 1-800-695-0098.

No power.
- Is the power cord firmly plugged into the power outlet?
- One of the safety mechanisms may be operating. In this event, unplug the player from the power outlet briefly and then plug it in again.

No picture.
- Check that the system is connected securely.
- The video connecting cord is damaged. Replace it with a new one.
- Make sure you connect the system to the video input connector on the TV (see page 14).
- Make sure you turn on the TV.
- Make sure you select the video input on the TV so that you can view the pictures from this system.

Noise (interference) appears in the picture.
- Clean the disc.
- If video from this system has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD system directly to your TV′s S-Video input, if your TV is equipped with this input (see page 14).

The aspect ratio of the screen cannot be changed even though you set "TV DISPLAY" in the SETUP menu when you play a wide picture.
- The aspect rate is fixed on your DVD disc.
- If you connect the system with the S-Video cable, connect directly to the TV. Otherwise, you may not change the aspect rate.
- Depending on the TV, you may not be able to change the aspect ratio.

There is no sound or only a very low-level sound is heard.
- Check that the speakers and components are connected securely.
- Make sure that you have selected the correct source on the system.
- Press **MUTE** button on the remote control if the red MUTE LED on the front panel is blinking.
- The protective device on the system has been activated because of a short circuit. Turn off the system, eliminate the short-circuit problem and turn on the power again.
- The audio connecting cord is damaged. Replace it with a new one.
- The system is in pause mode or in slow-motion play mode, or fast forward or fast reverse is performed. Press **PLAY/ PAUSE** (►/II) to return to normal play mode.
- Check the speaker settings (see pages 18 and 39 - 40).

Troubleshooting (Continued)

The left and right sounds are unbalanced or reversed.
- Check that the speakers and components are connected correctly and securely.
- Adjust front balance parameter using **SELECT** and **ADJ/VOL +/-** buttons (see pages 18 and 39 - 40).

Severe hum or noise is heard.
- Check that the speakers and components are connected securely.
- Check that the connecting cords are away from a transformer or motor, and at least 3 meters away from a TV set or fluorescent light.
- Move your TV away from the audio components.
- The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.
- Clean the disc.

The surround effect is difficult to hear when you are playing a Dolby Digital sound track.
- Set the Dolby Surround to "OFF" in the SETUP menu.
- Check the speaker connections.
- Depending on the DVD disc, the output signal may at times be monaural or stereo even if the sound track is recorded in Dolby Digital format.

The sound comes from the center speaker only.
- Depending on the disc at times the sound may come from the center speaker only. This is normal.

No sound is heard from the center speaker.
- Make sure the Center is set to "ON" in SETUP menu (see page 33).
- The listening mode may be set to Dolby Pro Logic Phantom (see page 44).
- Adjust the center speaker volume (see pages 39 - 40).

No sound or only a very low-level sound is heard from the rear speakers.
- Make sure the Rear is set to "ON" in SETUP menu (see page 33).
- The listening mode may be set to 3-Stereo (see page 44).
- Adjust the rear speaker volume (see pages 39 - 40).

Radio stations cannot be tuned in.
- Check that the antennas are connected correctly. Adjust the antennas and connect an external antenna if necessary.
- The signal strength of the stations is too weak (when tuning in with automatic tuning). Use manual tuning.
- No stations have been preset.
- The tuner mode is not selected, select the Tuner mode.

The remote does not function.
- Remove any obstacles between the remote control and the system.
- Move the remote control closer to the system.
- Point the remote control at the remote sensor on the front panel.
- Replace all the batteries in the remote control with new ones if they are weak.
- Check that the batteries are loaded correctly.

The disc does not play.
- There is no disc inside. ("NO DISC" appears on the front panel display and the TV screen.) Insert a disc.
- Insert the disc correctly with the playback side facing down on the disc tray.
- Clean the disc (see page 10).
- The system cannot play CD-ROMs, etc. (see page 9). Insert a DVD, a CD , or a MP3 disc.
- Check the region code of the DVD disc (see page 9).
- Moisture has condensed inside the system. Remove the disc and leave the system turned on for about an hour (see page 7).

The system starts playing the DVD automatically.
- The DVD features the auto playback function.

Playback stops automatically.
- Depending on the disc, the auto pause signal is recorded. While playing such a disc, the system stops playback at the signal.

Stopping playback, Search, Slow-motion play, repeat play or Program play, etc., cannot be done.
- Depending on the disc, some of the above operations may not be available.

Messages do not appear on the TV screen in the language you want.
- Select the language for OSD in SETUP menu (see page 31). The disc must have the language you selected , If not, other language will be selected.

The language for the sound cannot be changed when you play a DVD.
- Multilingual sound is not recorded on the DVD.
- Changing the language for the sound is prohibited on the DVD.

The language for the subtitles cannot be changed when you play a DVD.
- Multilingual subtitles are not recorded on the DVD.
- Changing the language for the subtitles is prohibited on the DVD.

The subtitles cannot be turned off when you play a DVD.
- Depending on the DVD, you may not be able to turn the subtitles off.

The angles cannot be changed when you play a DVD.
- Multi-angles are not recorded on some DVDs.
- Change the angles when the angle mark appears on the TV screen (see pages 30 and 41).
- Changing the angles is prohibited on some DVDs.

The system does not operate properly.
- Static electricity, etc., may affect the system's operation. Disconnect the AC power cord once, then connect it again.

Glossary

Bit rate

Value indicating the amount of video data compressed in a DVD per second. The unit is Mbps (mega bit per second). 1 Mbps indicates that the data per second is 1,000,000 bits. The higher the bit rate is, the larger the amount of data. However, this does not always mean that you can get higher quality pictures.

Chapter

Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Dolby Digital ("5.1", "AC-3")

This sound format for movie theaters is more advanced than Dolby Pro Logic Surround. In this format, the rear speakers output stereo sound with an expanded frequency range and a subwoofer channel for deep bass is independently provided. This format is also called "5.1" because the subwoofer channel is counted as 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately to realize superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs. The name "AC-3" comes from the fact that it is the third audio coding method to be developed by the Dolby Laboratories Licensing Corporation.

Dolby Pro Logic Surround

This is a method of decoding Dolby Surround, Dolby Pro Logic Surround that produces four channels from two-channel sound. Compared with the former Dolby Surround system, Dolby Pro Logic Surround reproduces left-to-right panning more naturally and localizes sounds more precisely. To take full advantage of Dolby Pro Logic Surround, you should have one pair of rear speakers and a center speaker. The rear speakers output monaural sound.

MPEG AUDIO

International standard coding system to compress audio digital signals authorized by ISO/IEC. MPEG 1 conforms to up to 2-channel stereo. MPEG 2 used on DVDs conforms to up to 7.1-channel surround.

DVD

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD, at 4.7 GB (Giga Byte), is 7 times that of a CD.

Furthermore, the data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD 9.4 GB, and a dual-layer and double-sided DVD 17 GB.

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology.

The picture data is compressed to about 1/40 of its original size. The DVD also uses the variable rate coding technology that changes the data to be allocated according to the status of the picture.

The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more real audio presence.

Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

Multi-angle function

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVDs

Multilingual function

Several languages for the sound or subtitles in a picture are recorded on some DVDs.

Parental Control

A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc. When it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Title

The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on an audio software. Each title is assigned a title number enabling you to locate the title you want.

Track

Sections of a music piece on a CD. Each track is assigned a track number enabling you to locate the track you want.

PCM

Pulse Code Modulation: a data formation.

NTSC

National TV Systems Committee: a video standard used in USA.

PAL

Phase Alternation Line: a video standard used in Europe.

Specifications

DVD player	Pickup	Semiconductor laser, wavelength 650nm
	Signal system	NTSC / PAL
	Video signal horizontal resolution	More than 480 lines (DVD)
	Video signal-to-noise ratio	More than 60 dB (DVD)
	Audio frequency response	DVD (PCM): 20Hz ~ 22KHz (+/- 1.0dB)
	(at 2CH stereo mode)	CD (PCM): 20Hz ~ 20KHz (+/- 1.0dB)
	Audio signal-to-noise ratio	More than 80 dB (PCM)
	Total harmonic distortion	Less than 0.01% (PCM)
	Dynamic range	DVD (PCM): More than 85 dB (EIAJ, 2KHz, -60 Dbfs)
		CD: More than 85 dB (EIJA)
FM Tuner	System	PLL quartz-locked digital synthesizer system
	Tuning range	87.50 ~ 108.00 MHz
	Antenna terminals	75 ohms, unbalanced
	Intermediate frequency	10.7 MHz
AM Tuner	System	PLL quartz-locked digital synthesizer system
	Tuning range	530 ~ 1710 kHz (10 kHz interval)
	Antenna	AM Loop antenna
Video outputs	CVBS Video	1 Vp-p 75 ohms
	S-video	Y: 1 Vp-p 75 ohms
		C: PAL 0.3 Vp-p 75 ohms / NTSC 0.286 Vp-p 75 ohms
Audio line outputs	Audio L/R	1 Vrms, 1 kilohms
	Subwoofer	1 Vrms maximum (adjustable), 1 kilohms
Audio power outputs	Stereo mode	25 W + 25 W (4 ohms at 1 kHz, THD 10%)
	Surround mode	Front: 25 W + 25 W (4 ohms at 1 kHz, THD 10%)
		Center: 25 W (4 ohms at 1 kHz, THD 10%)
		Rear: 25 W + 25 W (4 ohms at 1 kHz, THD 10%)
	Phones	Accepts low and high impedance headphones
Speakers	Active Subwoofer	Power: 100 W (4 ohms at 80 Hz, THD 10%)
		Speaker system: Bass reflex
		Speaker unit: 6.5 inches dia. cone type
		Rated impedance: 4 ohms
		Dimensions: 8" W x 12 1/8" H x 12" D
		Weight: 18 lb.
	Front / Center / Rear speakers	Power: 25 W maximum
		Speaker system: Sealed Box
		Speaker unit: 3 inches dia. cone type
		Rated impedance: 4 ohms
		Dimensions: 3 1/2" W x 5 3/4" H x 4 1/8" D
		Weight: 1.7 lb.

Specifications

General	Power requirements	AC 120 V, 60 Hz
	Power consumption	250 W
	Dimensions	17" W x 3" H x 14" D
	Weight	25.7 lb.
	Operating temperature	41 ^{o}F ~ 95 ^{o}F
	Operating humidity	5% ~ 90%
	Storage temperature	-4 ^{o}F ~ 130 ^{o}F
	Supplied accessories	See page 11

* Designs and specifications are subject to change without notice.

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CALL TOLL FREE 1-800-695-0098	

FOR ADDITIONAL SET-UP OR OPERATING ASSISTANCE
PLEASE CALL:
1-800-898-9020

FOR CUSTOMER SERVICE, PLEASE WRITE TO:
Emerson Radio Corp.
Consumer Affairs Dept.
1901 Diplomat Drive,
Farmers Branch , TX 75234

EMERSON RADIO CORP.
LIMITED WARRANTY

What does this warranty cover ? Any manufacturing defects in original material, including original parts and workmanship, under normal use and conditions.

For how long ? For a period of ninety (90) days for labor and for a period of one (1) year for parts,from the date of original purchase in the U.S.

What will we do ? If you need service under this warranty, and you provide us with the dated proof of purchase,we will provide repair service at no charge for labor and parts,for the time periods set forth above, at an authorized Depot Repair Facility, or replace the product in our discretion.

How do you make your warranty claim ? If it becomes necessary to repair your unit, you can obtain the name and mailing location of a Depot Repair Facility by dialing **1-800-695-0098**. You should pack your unit in a well-padded heavy corrugated box, enclose your check or money order payable to the Depot Repair Facility in the amount of **$9.00** to cover the return shipping and handling costs, and enclose a copy of your proof of purchase (warranty service will not be provided without a dated proof of purchase).
Finally, you should ship the unit prepaid via UPS or parcel post (insured).

What does your warranty <u>not</u> cover ? Your warranty <u>does not cover</u> the following :

· Damage from negligence, misuse, abuse, accident, or failure to follow operating instructions.
· Use of product in a commercial application or rentals.
· Changes or repairs by anyone other than an authorized Depot Repair Facility.
· Damage because your unit is improperly connected to the equipment of other manufacturers.
· Unit on which the serial number has been defaced, modified or removed.
· Damage to equipment not properly connected to the product.
· Cost incurred in shipping your unit to and from an authorized Depot Repair Facility.
· Ordinary adjustments which you can perform as outlined in the owner' s manual.
· Signal reception problems caused by external antenna or cable systems.
· Products purchased, used, serviced, or damaged outside of the United States.
· Damage to compact discs or cassettes.

What other limitations apply to your warranty ? THIS WARRANTY IS NON-TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO SUBSEQUENT OWNERS OF THE PRODUCT. THIS WARRANTY IS VALID ONLY IN THE UNITED STATES OF AMERICA. ANY APPLICABLE IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED IN DURATION TO A PERIOD OF THE EXPRESSED WARRANTY AS PROVIDED ABOVE BEGINNING WITH THE DATE OF ORIGINAL PURCHASE AT RETAIL AND NO WARRANTIES, WHETHER EXPRESSED OR IMPLIED, SHALL APPLY TO THE PRODUCT THEREAFTER. WE MAKE NO WARRANTY AS TO THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE OR USE.

THE EXTENT OF OUR LIABILITY UNDER THIS LIMITED WARRANTY IS THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND IN NO EVENT WILL OUR LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER OF THE PRODUCT. UNDER NO CIRCUMSTANCES WILL WE BE LIABLE FOR ANY LOSS, DIRECT, INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGE ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS PRODUCT.

How does state law apply to your warranty ? THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, BUT YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES OR EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGE, SO THESE RESTRICTIONS MAY NOT APPLY TO YOU.

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