SAMSUNG

DIGITAL HOME THEATER SYSTEM

HT-DL70D

SAMSUNG ELECTRONICS CANADA, INC.

HEADQUARTERS

7037 Financial Drive, Mississauga, Ontario, Canada L5N 6R3
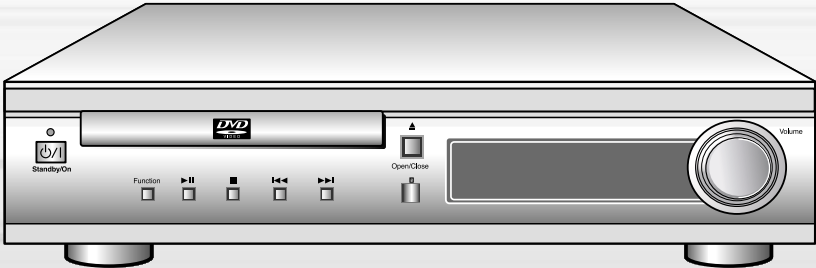TEL: 1-905-542-3535
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SERVICE DIVISION

7037 Financial Drive, Mississauga, Ontario, Canada L5N 6R3
1-800-SAMSUNG (1-800-726-7864)
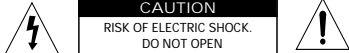
SAMSUNG
ELECTRONICS

Instruction Manual

DVD

Standby/On · Function ►II ■ I◄◄ ►►I Open/Close Volume

DOLBY DIGITAL · DIGITAL dts SURROUND · DVD VIDEO · COMPACT disc DIGITAL AUDIO · COMPACT disc DIGITAL VIDEO · MP3 DIGITAL DISC PLAYBACK

Safety Warnings

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CAUTION
RISK OF ELECTRIC SHOCK. DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC
SHOCK, DO NOT REMOVE REAR COVER.
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.

This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.
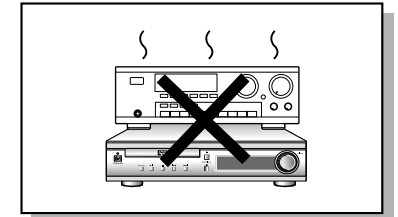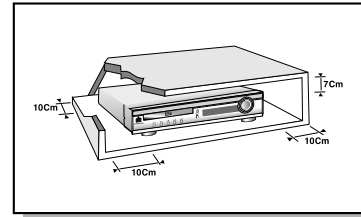
This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

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

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

1

Precautions

Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player ensure the disc tray empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.
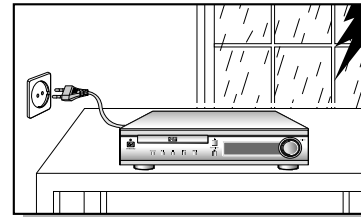
During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lightning could damage the unit.
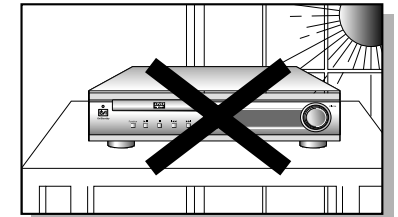
Do not expose the unit to direct sun radiation or other heat sources.
This could lead to overheating and malfunction of the unit.
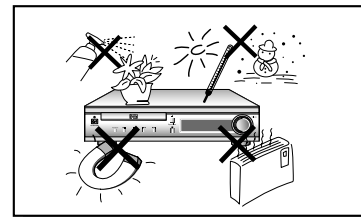
Protect the player from moisture(i.e. vases) , and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...).
Disconnect the power cable from the AC supply if the player malfunctions.
Your player is not intended for industrial use.
Use of this product is for personal use only.
Condensation may occur if your player or disc has been stored in a cold atmosphere.
If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.
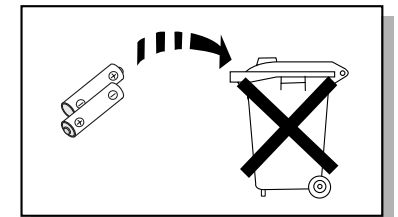
The battery used with this product contain chemicals that are harmful to the environment.
Do not dispose of batteries in the general household trash.

2

Contents

DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.

①~⑥ DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

Do not use the following types of disc!

- LD, CDG, CD-I, CD-ROM and DVD-ROM cannot be played on this player.
  If such discs are played, a "WRONG DISC FORMAT" message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
  If such discs are played, a "WRONG REGION CODE" message appears on the TV screen.

Copy Protection

- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

![Description header with CD graphic]

Description

Front Panel

Function button
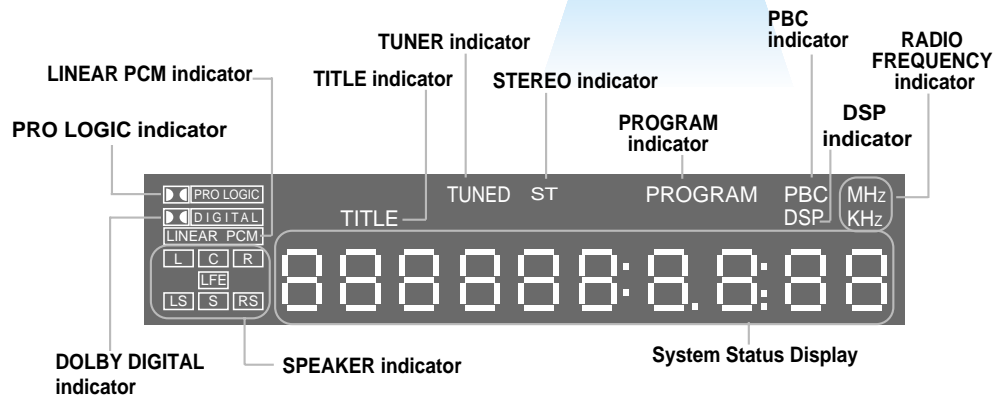
Play/Pause (►II) button

Power (⏻/|) button

Stop (■) button

Standby indicator

Disc Tray

Open/Close button

Volume control

Tuning Down & Skip (I◄◄) button
Tuning up & Skip (►►I) button

Display

LINEAR PCM indicator

PRO LOGIC indicator

TUNER indicator

TITLE indicator

STEREO indicator

PBC indicator

RADIO FREQUENCY indicator

PROGRAM indicator

DSP indicator

PRO LOGIC
D I G I T A L
LINEAR PCM
L | C | R
LFE
LS | S | RS

TUNED ST   PROGRAM PBC MHz
TITLE   DSP KHz

DOLBY DIGITAL indicator

SPEAKER indicator

System Status Display

Rear Panel

COMPONENT VIDEO OUTPUT jacks
Connect a TV with component video input jacks to these jacks.

AM Antenna Connector

FM Antenna Connector

5.1 Channel Speaker Output Terminals

External Audio Component Input Connector

S-Video Output Connector
If the TV is equipped with an S-Video input connector (S-VIDEO IN), connect it to the player's S-Video output jack.

Video Output Connector
Connect the TV's video input jacks (VIDEO IN) to the VIDEO OUT connector.

Accessories

Remote Control   **Video/Audio Cable**   **AM Antenna**   **FM Antenna**   **User's Manual**

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Remote Control Unit

DVD POWER button

DVD button
TUNER button
AUX button

Title button
Menu button
Subtitle button
Audio MO/ST(mono/stereo) button

Display button
Return button
Go To button

Power Sound button

DSP/EQ button

To open the romote control cover, push the top of the cover, then slide downward.
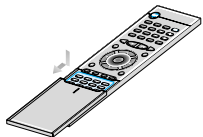
Open/Close button
Step button
Remain button
Repeat (A<->B) button
Repeat button
Zoom button

►/Ⅱ	**Play/Pause button**
▪	**Stop button**
◄◄ ►►	**Tuning Preset/CD Skip button**
◄◄ ►►	**Tuning Up/Down/CD Search button**

Direction/Enter button

Volume Control buttons
Speaker output volume control

Sleep button
Mute button

Selection button

Slow button
Setup button
Angle button
Subwoofer Speaker button

D.R.C button
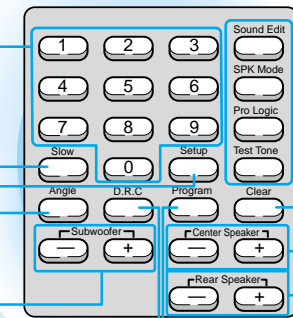
Sound Edit button
SPK Mode button
Pro Logic button
Test Tone button

Clear button
Center Speaker button
Rear Speaker button
Program button

Insert Remote Batteries
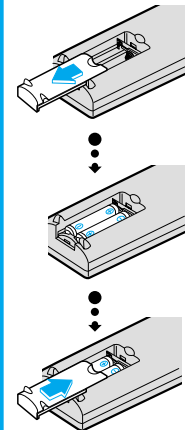
1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.

2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).

3 Replace the battery cover.

CAUTION

Follow these precautions to avoid leaking or cracking cells:
- Place batteries in the remote control so they match the polarity:(+) to (+)and (–)to (–).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.

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8
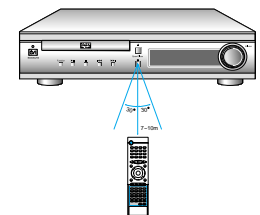
Connecting the Speakers

Center speaker

Left front speaker

Right front speaker

Subwoofer

• Connect the satellite speakers, center speaker, and subwoofer to the terminals on the rear panel using speaker cords supplied.
• Insert the end of the speaker cord into the terminal. Match the polarity (colors): Red (+) to red (+) and black (–) to black (–).

Left rear speaker

Right rear speaker
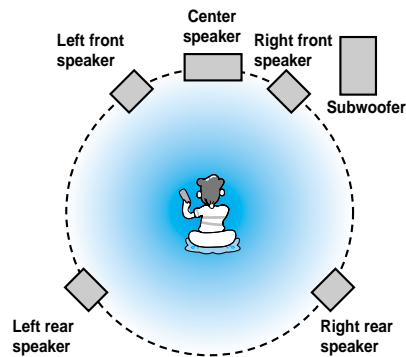
1 Press and hold the terminal tab.

2 Insert the speaker cord.

3 Release your finger.
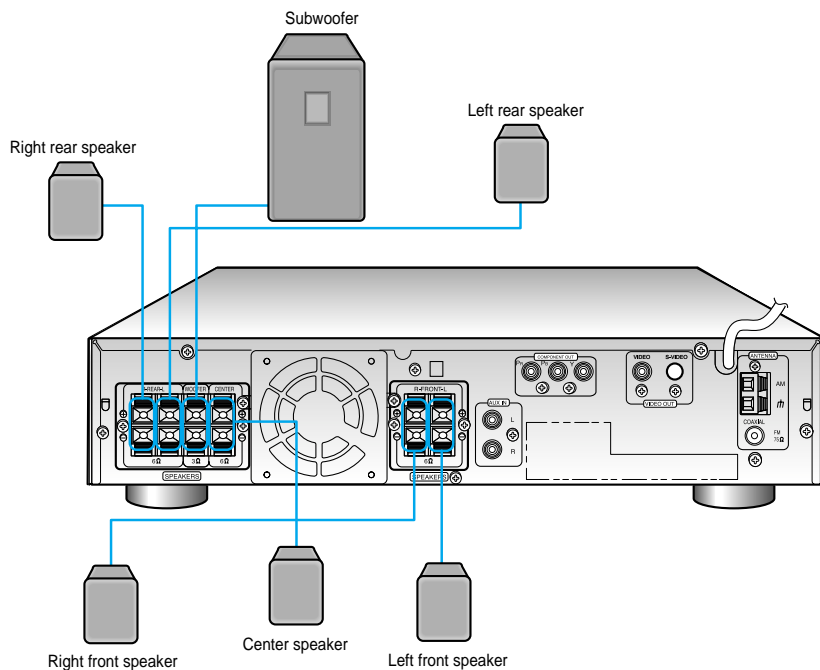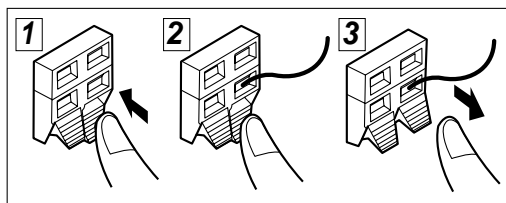
Subwoofer

Left rear speaker

Right rear speaker

Right front speaker

Center speaker

Left front speaker

Note

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Connecting Video to TV

TV

COMPONENT OUT IN   VIDEO IN   S-VIDEO IN
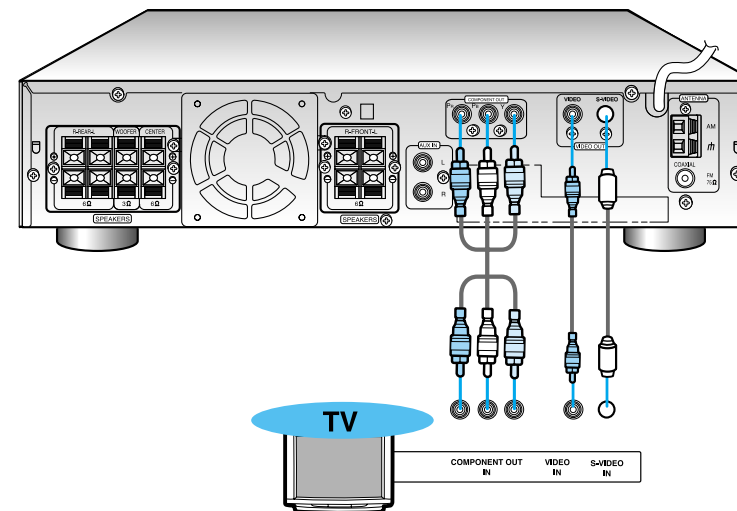
Composite Video (Good Quality)
Connect the supplied video cable from the VIDEO OUT jack on the back panel of the system to the VIDEO IN jack on your television.

S-Video (Better Quality)
If you television is equipped with an S-Video input, connect an S-Video cable (not supplied) from the S-VIDEO OUT jack on the back panel of the system to the S-VIDEO IN jack on your television.

Component Video (Best Quality)
If your television is equipped with Component Video inputs, connect a component video cable (not supplied) from the Pr, Pb and Y jacks on the back panel of the system to the corresponding jacks on your television.

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Connecting the FM and AM (MW/LW) Antennas

If AM reception is poor, connect an outdoor AM antenna(not supplied).

AM Loop Antenna (supplied)

COAXIAL FM 75Ω

If FM reception is poor, connect outdoor FM antenna (not supplied).

FM Antenna (supplied)

ANTENNA
AM
COAXIAL FM 75Ω

Snap the tabs on the loop into the slots of the base to assemble the AM loop antenna.

COAXIAL FM 75Ω

Cooling fan (See "About Cooling Fan" below.)
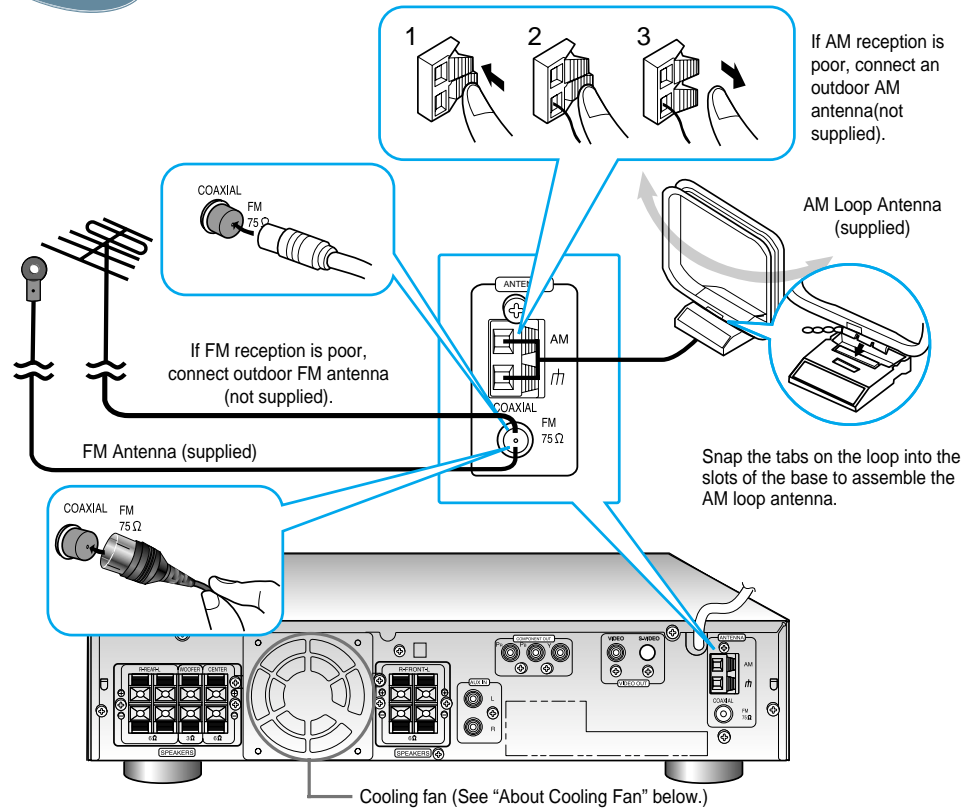
FM antenna connection

1. **Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal.**
2. **Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.**

- If reception is poor, connect an outdoor antenna. Before attaching a 75Ω coaxial cable (with a standard type connector), disconnect the supplied FM antenna.

AM/MW antenna connection

1. **Connect the AM loop antenna supplied to the AM and ⏚ terminals.**
2. **If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).**

(About the cooling fan)

A cooling fan is mounted on the rear panel of the center unit to prevent abnormal temperature inside the center unit, thus assuring normal operation. The cooling fan automatically starts rotating to supply external cool air to the inside of the center unit when the internal temperature exceeds the specified limit.

For safety, observe the following carefully.
- Make sure there is good ventilation around the center unit. Poor ventilation could overheat and damage the canter unit.
- DO NOT block the cooling fan and the ventilation openings or holes. (If they are blocked by a newspaper or cloth, etc., the heat may not be able to escape.)

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AUX Connections

TV

To view pictures from the external input (AUX), first connect the VIDEO IN jack (VIDEO) and then connect the VIDEO OUT jack.

VIDEO IN

COMPONENT OUT   VIDEO S-VIDEO   ANTENNA
R-FRONT-L   AM
AUX IN
L
R
VIDEO OUT   COAXIAL FM 75Ω
6Ω
SPEAKERS

Audio Cable (Red/White)
If the external analog component has only one output jack, you may connect either L or R.

External Analog Components

R   L

Connect to external equipment with analog outputs.
Example: Video, TV, etc.

Warning
- Always connect the video and audio connection cables to the equivalent colored jack.

Making Analog Input Selection

Remote Control   Press the **AUX** button and select AUX IN.

Main Unit   Press the **Function** button and select AUX IN.

12

Connecting your System to the Power Supply

The AC plug must be plugged into an appropriate socket.
Before plugging your system into an AC outlet, you must check the voltage.

1. Plug the AC Cord on the rear of the system into an appropriate outlet.

2. Press the On/Standby button to switch your DVD Player system on.

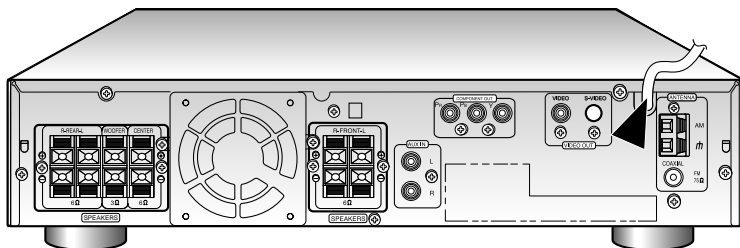# Before Using the DVD Player

Your DVD player is capable of playing DVD, VCD, and CD discs.
User instructions may vary depending on the type of disc. Read the instructions carefully before use.

1
Prepa-rations before use

Turn on the power to your DVD player and TV.

2
Select a video mode by pressing the TV/VIDEO button.

3
Press the DVD button to select the DVD input function.

DVD

Note

- The "**WAIT**" message that appears on the display for about seven to eight seconds when turning on the power or selecting a DVD function indicates a stabilization period for optimizing the condition of your DVD player. While the message is being displayed, other buttons remain inactive.

- When the power is not turned on, press down the Stop (■) button on the main unit for over 5 seconds.
  The product will be initialized to its optimum state.

- Certain operational features such as the Speaker mode, Test tone, Volume, etc. will not be displayed on the TV screen.

TV Broadcast System

- **This device is designed to work with the NTSC video format.**
- **For normal playback, the video format a DVD disc is recorded in must coincide with your TV's video format.**

13

14

DVD Playback

1

Press the **Open/Close**(▲) button to open the disc tray.

- The button is located on the Front Panel of the player (not on the remote).
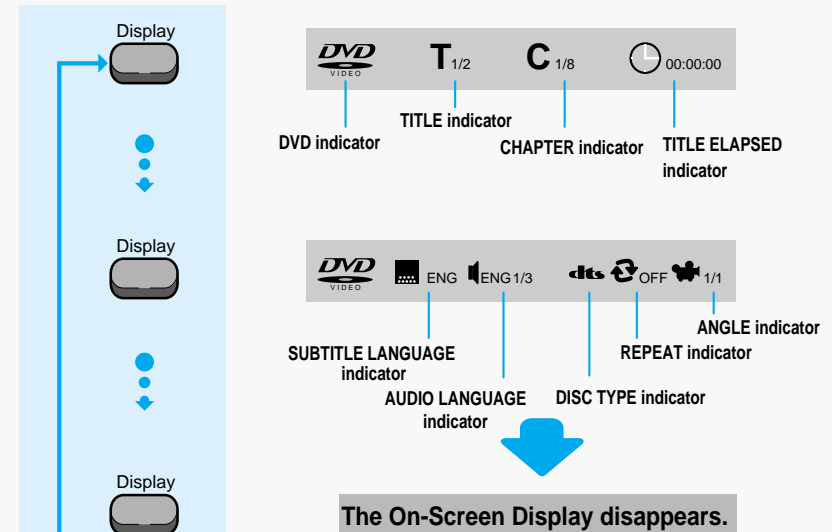
2

Insert a disc.

- Place a disc gently into the tray with the disc's label facing up.

3

Press the **Open/Close**(▲) button again to close the disc tray.

- Playback starts automatically.

Pausing Playback

Press the Play/Pause (▶II) button during playback.

- To resume, press the Play/Pause (▶II) button again.

Note
- Depending on the disc, the initial disc information screen may look different from disc to disc.
- When playing a DVD containing MPEG format, video may not be reproduced correctly and you may get picture distortion.

Stopping Playback

Press the Stop (■) button during playback.

- During playback, when the Stop (■)button is pressed, the position is stored in the memory, and ▶■ STOP is shown on the display.
  When the Play/Pause (▶II) button or Return button is pressed subsequently, playback resumes from the position at which it was stopped.
- If the Stop (■) button is pressed a second time, the 'resume play' memory function is canceled, and ■ STOP is shown on the display. When the Play/Pause (▶II)button is pressed, playback starts from the beginning.

15

Using the On-Screen Display

Display

DVD

Press the Display button on the remote.

Display

$T_{1/2}$ $C_{1/8}$ ⏱ 00:00:00

DVD indicator **TITLE indicator** **CHAPTER indicator** **TITLE ELAPSED indicator**

Display

ENG ENG 1/3 dts OFF 1/1

SUBTITLE LANGUAGE indicator **ANGLE indicator** **REPEAT indicator**

AUDIO LANGUAGE indicator **DISC TYPE indicator**

Display

The On-Screen Display disappears.

What is a Title?

A movie contained in a DVD disc.

What is a Chapter?

Each Title on a DVD disc is divided into several smaller sections called "chapters".

Turning the sound off temporarily?

Mute

Press the Mute button during playback.

- This operation may be useful when you need to greet guests or answer the telephone.

Note If the player is left for more than 3 minutes in pause mode, it will stop.

16

Forward/Reverse Searching

During playback, you can search quickly through a chapter or track for a specific scene or tune.

Multi-Speed Playback

DVD VCD CD

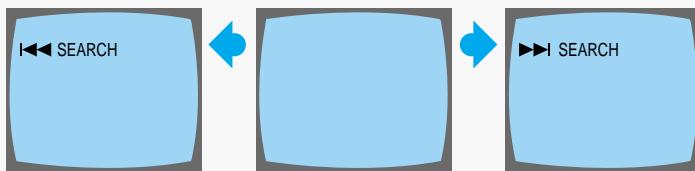**Press the ◀◀ and ▶▶ button.**

Each time the ◀◀ button is pressed

- ◀◀ X 2
- ◀◀ X 4
- ◀◀ X 8
- ◀ PLAY

Each time the ▶▶ button is pressed

- ▶▶ X 2
- ▶▶ X 4
- ▶▶ X 8
- ▶ PLAY

Skipping through a Chapter

DVD VCD CD

Press the I◀◀ and ▶▶I button.

- Each time the button is pressed during playback, it moves to the next or previous chapter and plays it.

I◀◀ SEARCH ⬅ ➡ ▶▶I SEARCH

DVD VCD **Playing Frame by Frame** Step

Press the Step button.

- The picture moves forward one frame each time the button is pressed.

Note No sound is heard during high-speed playback, slow playback, and step motion.

17

Slow Playback/Checking the Remaining Time

Playing Slowly

Slow   DVD VCD

Press the Slow button.

Each time the Slow button is pressed

DVD

- I▶ SLOW 1/2
- I▶ SLOW 1/4
- ▶ PLAY
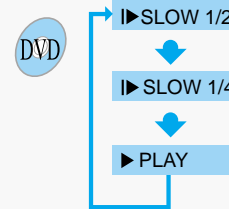
VCD   The slow playback speed changes and the selections (1/2X, 1/4X, 1/8X, 1/16X and normal play) are repeated.

Checking the Remaining Time

Remain   DVD VCD CD

Press the Remain button.

- For checking the total and remaining time of a title or chapter being played.

Each time the Remain button is pressed

DVD

- TITLE TIME
- REMAIN TIME : TITLE
- CHAPTER TIME
- REMAIN TIME : CHAPTER

VCD CD

- TRACK TIME
- REMAIN TIME : TRACK
- DISC TIME
- REMAIN TIME : DISC

18
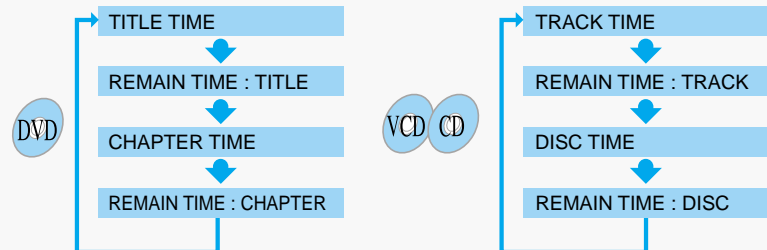
Repeat Playback

Repeat playback allows you to repeat a chapter, title, or track.

Playing Repeatedly

DVD **VCD** **CD**

Repeat

Press the Repeat button.

Each time the Repeat button is pressed

REPEAT : CHAPTER

REPEAT : TITLE

REPEAT OFF

DVD

VCD **CD**

REPEAT : ONE

REPEAT : DISC

REPEAT OFF

Note
● Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on. To operate this feature, press the MENU button, and then select "PBC OFF".
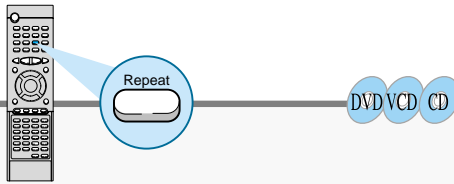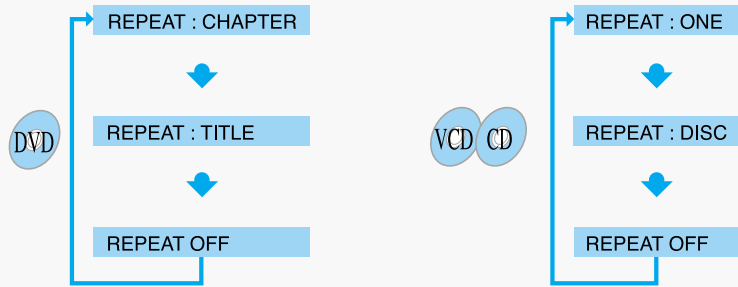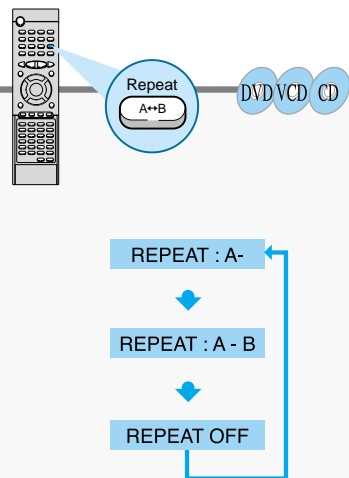
A↔B Repeat Playback

Repeat
A↔B

DVD **VCD** **CD**

1 Press the **Repeat A↔B** button at the beginning (A) of the segment you want to review.

2 Press the **Repeat A↔B** button again at the end (B) of the segment you want to review.
● The segment will begin repeating.

To return to normal playback

Press the Repeat A<–>B button again.

REPEAT : A-

REPEAT : A - B

REPEAT OFF

19

Using Disc Menu/Title

To Select the Disc Menu

Menu

DVD

You can use the menus for the audio language, subtitle language, profile, etc. DVD menu contents differ from disc to disc.

1

Press the **Menu** button during playback.

● The Menu Screen appears.
● When playing VCD version 2.0, you can operate it using PBC On/Off function.

2

Use the **Up/Down** (▲ / ▼) or **Left/Right**(◄ / ►) button to access the different features.

3

Press the **Enter** button.

● The selected item will play.

Using the Title Menu

Title

DVD

For DVDs containing multiple titles, you can view the title of each movie.
Depending on the disc, this function may either not work at all, or may work differently.

20
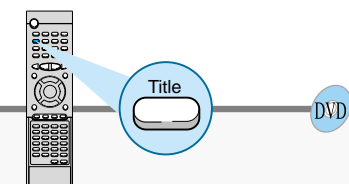
Program Playback

Use this function to program chapters or tracks in a particular order.

GB

To Program Tracks in a particular order

Program DVD

1
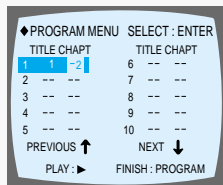Press the **Program** button.

2
Press the **Enter** button, then use the Number buttons to select the desired title.

- You can also use the **Left/Right** (◄ / ► / ▲ / ▼) button.

```
◆PROGRAM MENU   SELECT : ENTER
   TITLE CHAPT      TITLE CHAPT
1  -1  --        6  --  --
2  --  --        7  --  --
3  --  --        8  --  --
4  --  --        9  --  --
5  --  --        10 --  --
   PREVIOUS ↑       NEXT ↓
     PLAY : ►    FINISH : PROGRAM
```

3
Press the **Enter** button, then use the Number buttons to select the desired chapter.

- You can also use the **Left/Right** (◄ / ► / ▲ / ▼) button.

```
◆PROGRAM MENU   SELECT : ENTER
   TITLE CHAPT      TITLE CHAPT
1  1  -2         6  --  --
2  --  --        7  --  --
3  --  --        8  --  --
4  --  --        9  --  --
5  --  --        10 --  --
   PREVIOUS ↑       NEXT ↓
     PLAY : ►    FINISH : PROGRAM
```

```
◆PROGRAM MENU   SELECT : ENTER
   TITLE CHAPT      TITLE CHAPT
1  --  --        6  --  --
2  --  --        7  --  --
3  --  --        8  --  --
4  --  --        9  --  --
5  --  --        10 --  --
   PREVIOUS ↑       NEXT ↓
     PLAY : ►    FINISH : PROGRAM
```

4
Press the **Enter** button.

- The selected track number is programmed and the cursor moves to the next number.

```
◆PROGRAM MENU   SELECT : ENTER
   TITLE CHAPT      TITLE CHAPT
1  1  2          6  --  --
2  --  --        7  --  --
3  --  --        8  --  --
4  --  --        9  --  --
5  --  --        10 --  --
   PREVIOUS ↑       NEXT ↓
     PLAY : ►    FINISH : PROGRAM
```

5
At this time, you can continue programming if you want to.

- When programming more than 10 tracks, select NEXT↓ and then press the **Enter** button. The program selection screen where you can program up to 10 additional tracks appears.

```
◆PROGRAM MENU   SELECT : ENTER
   TITLE CHAPT      TITLE CHAPT
1  1  2          6  4  1
2  1  2          7  6  2
3  1  7          8  3  4
4  2  3          9  5  5
5  2  4          10 1  2
   PREVIOUS ↑       NEXT ↓
     PLAY : ►    FINISH : PROGRAM
```
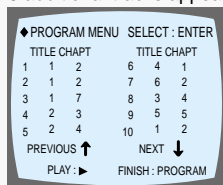
To Playback the Tracks in Programmed Order

Press the **Play/Pause** (►II) button.

To Leave the Programming Mode Press either the **Program** or **Stop** (■) button.

To Change the Program

DVD

1
Press the **Up/Down** (▲/▼) button to select the track number to be changed.

2
Press the **Enter** button to select the title or chapter to be changed.

- The cursor moves to the next number when the **Enter** button is pressed again.

3
Press the **Clear** button and then press the Number buttons.

- You can also use the **Left/Right** (◄ / ►) button.

4
Press the **Enter** button.

- The cursor moves to the number below.

5
Repeat steps 1-4 above to change the program.

To delete the entire Program

- Press the **Stop** (■) button twice during playback.
- Press the **Stop** (■) button once when in the Stop mode.
- Press the **Open/Close** (▲) button on the main unit. The disc tray will open and then close. The program will then be deleted.

When you have entered a wrong number Clear

Press the Clear button.

- When you want to delete a selection during programming, select the track (or chapter, or title) to be deleted and then press the **Clear** button.

Note
- You can program or change particular tracks for VCD or CD discs in the same manner.
- Depending on the disc, the PROGRAM function may not work.

21   22

Selecting the Audio Language/Subtitle Language

Selecting the Audio Language

Audio MO/ST | DVD

Press the Audio button.

- Depending on the number of languages recorded on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH, etc.) is selected each time the button is pressed.

DVD VIDEO | ENG | ENG 1/3 → SPA 2/3 → FRE 3/3 | dts OFF 1/1
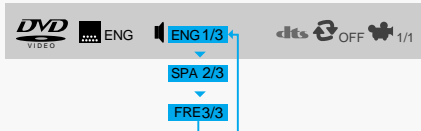
Note • Depending on the disc, DTS or DIGITAL PRO LOGIC can be selected.

Selecting the Subtitle Language

Subtitle | DVD

Press the Subtitle button.

- Depending on the number of languages recorded on a DVD disc, a different subtitle language (ENGLISH, SPANISH, FRENCH etc.) is selected each time the button is pressed.
- To make the subtitles disappear, select "OFF".

DVD VIDEO | ENG 1/3 → SPA 2/3 → FRE 3/3 → OFF | ENG 1/1 | dts OFF 1/1
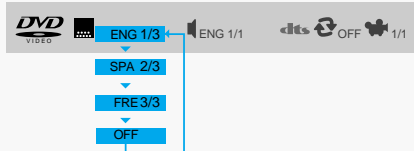
Note • If the word ⊘ INVALID appears on the TV screen while buttons are being operated, that operation is not possible with that particular disc.
• Depending on the disc, the audio or subtitle language function may not work.

23

Various DVD Functions

To enlarge an image

Zoom | DVD VCD

Press the Zoom button.

- Images can be enlarged 2x and 4x.
- During DVD playback, press the **Zoom** button to zoom in 2X/4X/normal, in that order.
- Press ◄ / ► / ▲ / ▼ to move the enlarged portion you want to watch.
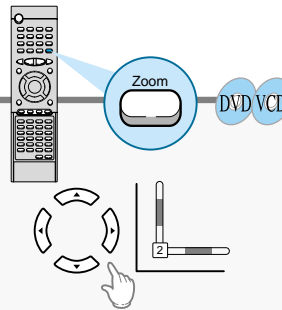
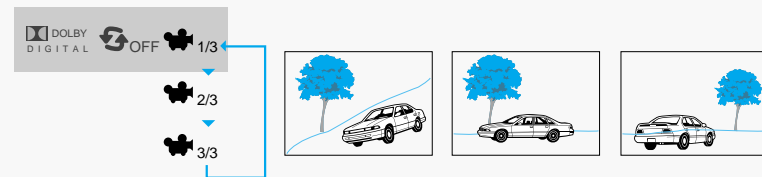**Note** • Only 2X zoom operation is possible during VCD playback.

Selecting the desired Screen Angle

Angle | DVD

Press the Angle button.

- This function only works with discs on which multiple angles have been recorded.
- During playback, press the **Angle** button to select the desired angle in 1/3, 2/3, 3/3, normal, in that order.
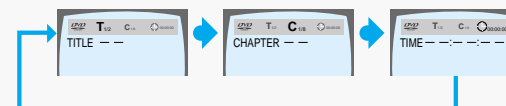
DOLBY DIGITAL | OFF | 1/3 → 2/3 → 3/3

To move directly to a title, chapter, or time

Go To | DVD

1	**2**
Press the **Go To** button.	Press Number(0~9) buttons or the **Left/Right** (◄ / ►) button.

- Each time the button is pressed, it repeats as shown below.

  TITLE — — → CHAPTER — — → TIME — : — : —

- Each time the buttons are pressed the desired scene is located and then played.
- Depending on the disc, the Title function may not work.

24

MP3 Playback

This system has a built-in MP3 decoder.
You can play back MP3 tracks (files)recorded on CD-Rs, CD-RWs, and CD-ROMs.

Starting Playback

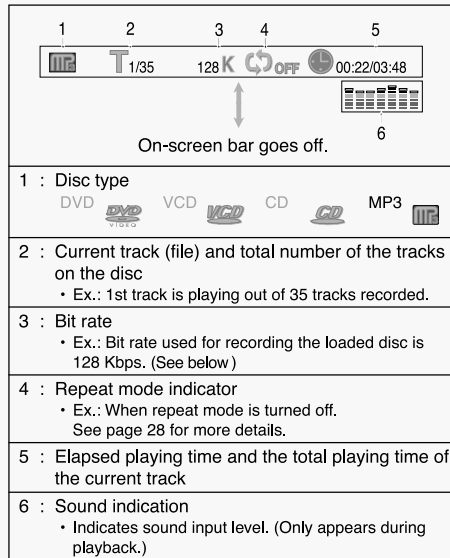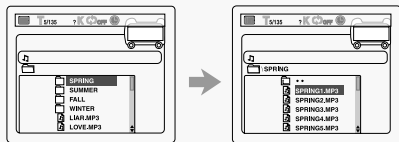- It is recommended you turn on your
  TV when playing back an MP3 disc.

1

Press the **Open/Close**(▲) button
to load a disc.

2

Press the **Play/Pause**(▶II) button.

- After detecting the disc, playback starts.
- The on-screen bar and the contents
  recorded on the MP3 disc will be shown
  on the TV if it is turned on.

```
  1      2      3    4       5
IIE    T 1/35   128 K  OFF   00:22/03:48
                                    6
```

On-screen bar goes off.

1 :	Disc type
	DVD VCD CD MP3
2 :	Current track (file) and total number of the tracks on the disc · Ex.: 1st track is playing out of 35 tracks recorded.
3 :	Bit rate · Ex.: Bit rate used for recording the loaded disc is 128 Kbps. (See below)
4 :	Repeat mode indicator · Ex.: When repeat mode is turned off. See page 28 for more details.
5 :	Elapsed playing time and the total playing time of the current track
6 :	Sound indication · Indicates sound input level. (Only appears during playback.)

To stop during playback ••• Press the **Stop** (■) button.

What is MP3?

MP3 is an abbreviation of Motion Picture Experts Group
(or MPEG) Audio Layer 3. MP3 is simply a file format
with a data compression ratio of 1:10 (128 Kbps*).
That means,by using MP3 format, one CD-R or CD-RW
can contain 10 times as much data volume as a regular
CD can.
*Bit rate is the average number of bits that one second
 of audio data will consume. The measuring unit used is
 Kbps (1000 bits per second).
 To obtain better audio quality, choose a higher bit rate.
 The most popular bit rate for encoding (recording)is
 128 Kbps.

MP3 File Compatibility

- This system can only read MP3 files that are recorded in
  the format that is compliant with ISO 9660 Level 1 or
  Level 2.
- The system can read or play MP3 files only with the
  extension code —".mp3 ".
- ID3*tags cannot be shown on the display.
- *An MP3 file can contain file information called "ID3 Tag "
  where its album name, performer, rack title, etc. are
  recorded.

25

Operations Using the On-Screen Display

Turn on your TV when playing back an MP3 disc.

When the loaded MP3 disc is recognized, the following
on-screen display appears on the TV screen.
(The contents of this on-screen display vary according to
 the disc — the way MP3 tracks were recorded on the
 disc.)
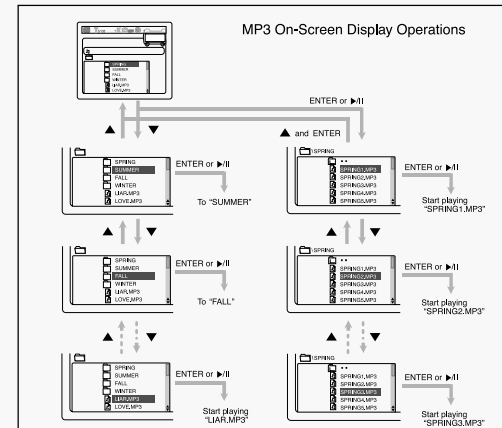
Button	To do
ENTER, ▶II	Start playback or go into a directory.
▲/▼	Select a track or directory.

MP3 On-Screen Display Operations

CD-R/RW playback compatibility

- Your DVD player can also play CD-R and CD-
  RW discs recorded in digital audio format.
  When recording your own CD-R or CD-RW
  discs, make sure that the recording session is
  properly terminated, or they will not be
  playable. (Depending on disc properties and
  recording quality, some CD-R/RWs may not be
  playable.)
- CD-RW has a lower reflection rate than CD-R
  media and consequently it will take a longer to
  read CD-R discs.
- CD-RW discs recorded at high speed tend to
  be difficult for the DVD player to read. If the
  recording speed for the CD-RW disc is not
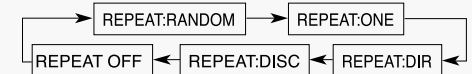 predetermined, write it at low speed.

Repeating Playback

On an MP3 disc, Repeat A↔B cannot be used.
You can enjoy only repeat play.

Press the REPEAT button.
The indication corresponding to the selected mode
appears on the TV screen.

- Each time you press the button, repeat mode
  changes as follows:

```
 REPEAT:RANDOM  →  REPEAT:ONE
      ↑                   ↓
 REPEAT OFF ← REPEAT:DISC ← REPEAT:DIR
```

REPEAT:RANDOM
: All tracks recorded on the disc will be played once in random order.
REPEAT:ONE
: Current track will be repeated.
REPEAT:DIR
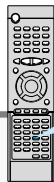: Tracks in the current directory will be repeated.
REPEAT:DISC
: All tracks on the disc will be repeated.
REPEAT OFF
: Repeat play is canceled.(Normal play is resumed.)

26

System Setup

You can use the DVD player's Setup function to select the TV screen ratio, rating limit, or digital output mode.
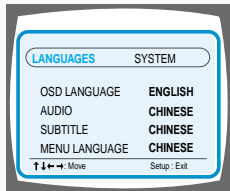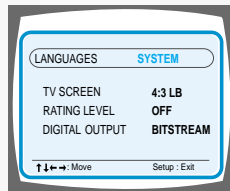
Setup

DVD

To Set up the System

1
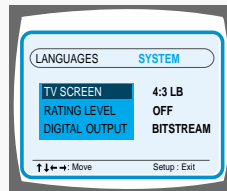
From the stop mode, press the **Setup** button.

```
LANGUAGES    SYSTEM

OSD LANGUAGE     ENGLISH
AUDIO            CHINESE
SUBTITLE         CHINESE
MENU LANGUAGE    CHINESE
↑↓←→: Move        Setup : Exit
```

2

Press the **Left/Right** (◄/ ►) button to select the system.

```
LANGUAGES    SYSTEM

TV SCREEN        4:3 LB
RATING LEVEL     OFF
DIGITAL OUTPUT   BITSTREAM
↑↓←→: Move        Setup : Exit
```

3

Press the **Up/Down** (▲/▼) button to select the desired item.

```
LANGUAGES    SYSTEM

TV SCREEN        4:3 LB
RATING LEVEL     OFF
DIGITAL OUTPUT   BITSTREAM
↑↓←→: Move        Setup : Exit
```

4

Press the **Enter** button or Right (►) button.

```
LANGUAGES    SYSTEM

TV SCREEN        4:3 LB
RATING LEVEL     OFF
DIGITAL OUTPUT   BITSTREAM
↑↓←→: Move        Setup : Exit
```
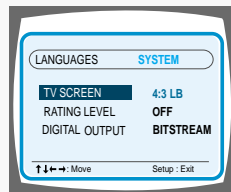
5

Press the **Up/Down** (▲/▼) button to select the desired sub-item and then press the **Enter** button.

```
LANGUAGES    SYSTEM

TV SCREEN        ✓4:3 LB
RATING LEVEL      4:3 PS
DIGITAL OUTPUT    16:9
↑↓←→: Move        Setup : Exit
```
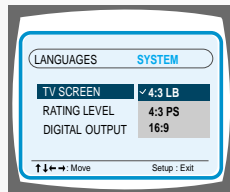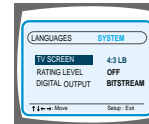
To End the System Setup

Setup

● Press the **Setup** button again.

27

TV SCREEN(TV SCREEN RATIO)

Select when you want to watch a 16:9 screen ratio DVD movie on a TV with a 4:3 ratio screen.

```
LANGUAGES    SYSTEM

TV SCREEN        4:3 LB
RATING LEVEL     OFF
DIGITAL OUTPUT   BITSTREAM
↑↓←→: Move        Setup : Exit
```

4:3LB You can see the full 16:9 picture, but black bars will appear at the top and bottom of the screen.

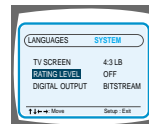**4:3PS** You can only view the central portion of the 16:9 screen.

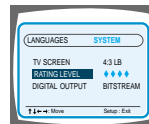**16:9** You can view in widescreen, but the top and bottom of the picture will be cut off.

● If the movie is recorded in 4:3 ratio, you cannot view the full 16:9 picture with the above functions.
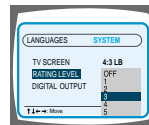
RATING LEVEL

The Rating Level function works in conjunction with DVDs which have been assigned a rating, to help control the type of DVD that your family watches.

```
LANGUAGES    SYSTEM

TV SCREEN        4:3 LB
RATING LEVEL     OFF
DIGITAL OUTPUT   BITSTREAM
↑↓←→: Move        Setup : Exit
```

1. Select RATING LEVEL, then press the Enter button.

```
LANGUAGES    SYSTEM

TV SCREEN        4:3 LB
RATING LEVEL     ♦♦♦♦
DIGITAL OUTPUT   BITSTREAM
↑↓←→: Move        Setup : Exit
```

2. Use the number(0~9) buttons to input a 4-digit password.

● The player's password is set to "7890" by default.

When the rating level password has been forgotten

While the player is in the stop mode, hold the **Stop** (■) button down on the main unit for more than 5 seconds.

● "INITIAL" appears on the display and all default settings will return to Factory Preset.

● Press the **Power** button.

```
LANGUAGES    SYSTEM

TV SCREEN        4:3 LB
RATING LEVEL     OFF
DIGITAL OUTPUT   1
                 2
                 .
                 5
↑↓←→: Move
```

3. Use the Up/Down (▲/▼) button to select either RATING LEVEL or NEW PASSWORD, and then press the Enter button.

● There are up to 8 rating levels on a disc.

● If LEVEL 6 is selected, a disc which contains rating LEVEL 7 and above cannot be played.

● If you select NEW PASSWORD, the screen changes and enables you to enter the new password.
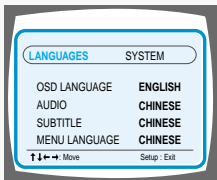
28

Setting up the Language Features

Using the DVD player's Setup function, you can customize the Menu Language, Subtitle Language, and Disc Menu Language.
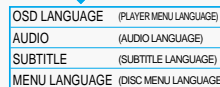
To set up the language feature

Setup

DVD

1

Press the **Setup** button from the stop mode.

```
LANGUAGES      SYSTEM

OSD LANGUAGE    ENGLISH
AUDIO           CHINESE
SUBTITLE        CHINESE
MENU LANGUAGE   CHINESE
↑↓←→: Move         Setup : Exit
```

2

Press the **Up/Down** (▲/▼) button to select the desired item.

```
LANGUAGES      SYSTEM

OSD LANGUAGE    ENGLISH
AUDIO           CHINESE
SUBTITLE        CHINESE
MENU LANGUAGE   CHI NESE
↑↓←→: Mo           Setup : Exit
```

OSD LANGUAGE	(PLAYER MENU LANGUAGE)
AUDIO	(AUDIO LANGUAGE)
SUBTITLE	(SUBTITLE LANGUAGE)
MENU LANGUAGE	(DISC MENU LANGUAGE)

3

Press the **Enter** button or **Right** (▶) button.

```
LANGUAGES      SYSTEM

OSD LANGUAGE    ENGLISH
AUDIO           CHINESE
SUBTITLE        CHINESE
MENU LANGUAGE   ENGLISH
↑↓←→: Move         Setup : Exit
```

4

Press the **Up/Down** (▲/▼) button to select the desired language and then press the **Enter** button.

```
LANGUAGES      SYSTEM

OSD LANGUAGE    ✓ENGLISH
AUDIO            CHINESE
SUBTITLE         FRENCH
MENU LANGUAGE    GERMAN
↑↓←→: Move        JAPANESE
```
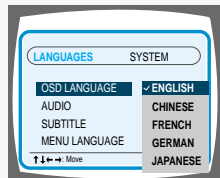
To End the Language Features Setup ••• Setup

• Press the **Setup** button again.

29

Activating Dynamic Range Compression

Activating Dynamic Range Compression

D.R.C

DVD

You can enjoy a powerful sound even at a low volume level by compressing the dynamic range (difference between the maximum and minimum sounds).

From the remote control ONLY:
Press the D.R.C button.

• Each time you press the button,the dynamic range compression mode alternates between on and off. Select "**D.R.C.ON**" while watching the DVD at night.
(You can obtain a powerful sound at a low volume.)
• This function takes effect only when Dolby Digital or DTS Digital Surround is activated.
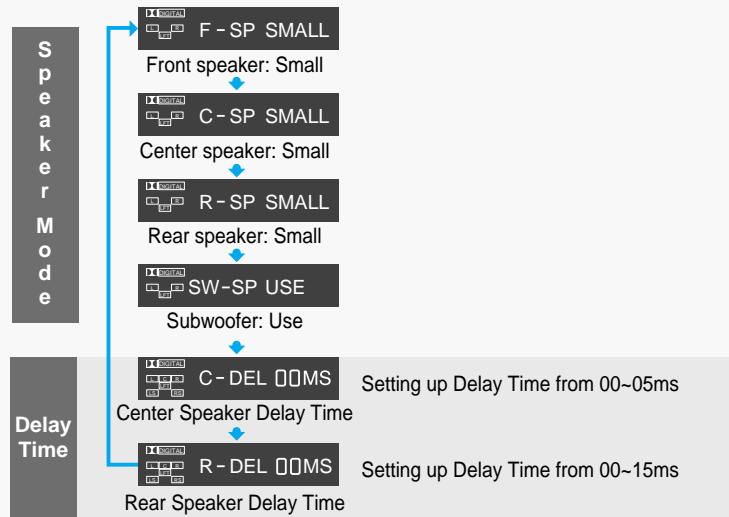
D R C   O N

30

Speaker Setup

Setting up Speaker Mode and Delay Time

SPK Mode

DVD

Press the **SPK Mode** button.

- Each time the button is pressed, a different mode selection is displayed on the front panel display as shown below.

Speaker Mode

F – SP SMALL
Front speaker: Small

C – SP SMALL
Center speaker: Small

R – SP SMALL
Rear speaker: Small

SW – SP USE
Subwoofer: Use

Delay Time

C – DEL 00MS   Setting up Delay Time from 00~05ms
Center Speaker Delay Time

R – DEL 00MS   Setting up Delay Time from 00~15ms
Rear Speaker Delay Time

- SMALL: When this setting is selected, low frequencies of below 200 Hz are assigned to the subwoofer only.
- USE: Select when using speakers.

Note
- The display changes depending on the current audio output mode (DSP, PRO LOGIC, 3-STEREO, STEREO, etc.).
- When in the speaker mode, the center and rear speakers and the subwoofer cannot be selected.


To set the delay time

- When 5.1 Channel Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set Delay Time in the Center/Rear Speaker to customize the sound to the acoustics of your room.
- Setting Center Speaker
  If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms. Otherwise, change the setting according to the table on the table.
- Setting Rear Speakers
  If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

(A)=Df-Dc

| Distance of (A)	Value
50	1.3ms
100	2.6ms
150	3.9ms
200	5.3ms

(B)=Df-Ds

Distance of (B)	Value
200	5.3ms
400	10.6ms
600	15.9ms
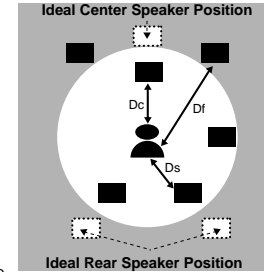
Dc: Distance from center speaker to listening position
Df: Distance from front speakers to listening position
Ds: Distance from rear speakers to listening position

Ideal Center Speaker Position

Dc   Df   Ds

Ideal Rear Speaker Position

Arrange all speakers within a circle as shown in the figure.

Speaker Setting Methods
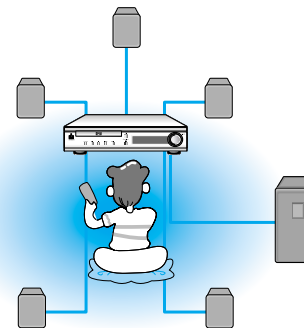
Front Speakers ● ● ●

Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

Center Speaker ● ● ●

Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.

Rear Speakers ● ● ●

Set the rear speakers further back, parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level.
If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.

Subwoofer Speaker ● ● ●

Place the subwoofer at any convenient location within the vicinity of the listening position.

31   32

Speaker Setup

To set up Speaker Balance

Sound Edit

DVD VCD CD

1

Press the **Sound Edit** button.

2

Use the **Left/Right** (◀ / ▶) button to raise or lower the output level of the chosen speaker(s).

• Each time the button is pressed the selection switches as shown below.

Example: 5.1CH Sound Setup

-00 F-00   OFF, range of − 6 ~ 0

Front Speakers: L level, R level

-00 A-00   OFF, range of − 6 ~ 0

Rear Speakers: L level, R level

CEN   00d8   range of − 6 ~ − 00 ~ +6

Center Speaker

REAR   03d8   range of − 6 ~ − 00 ~ +6

Rear Speakers

SW   03d8   range of − 6 ~ − 00 ~ +6

Subwoofer Speaker

• You can adjust various settings by using their corresponding buttons on the remote control unit.

Subwoofer   Center Speaker

Rear Speaker

Note The display changes depending on the current audio output mode (DSP, PRO LOGIC, 3-STEREO, STEREO, etc.).

33

Speaker Setting Methods

Test Tone

DVD VCD CD
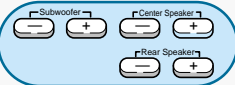
Press the Test Tone button.

• The test signal will be sent to the Left Front, Center, Right Front, Right Rear, Left Rear in that order.

Test Tone

To End the Speaker Setup

• Press the **Test Tone** button again.

L   C   R

LS   RS

Note While in DSP or PRO LOGIC mode, TEST TONE may operate differently for VCDs or CDs.

Selecting Dolby Pro Logic

Pro Logic

DVD VCD CD

Press the Pro Logic button.
Converts Dolby Surround encoded 2-channel sound (e.g., program material received by Stereo VCR could be Dolby Surround encoded 2-channel material that can be decoded into 4-channel sound using the Dolby Pro Logic mode). Pro Logic mode can also be enjoyed when in DVD mode or when playing Dolby Digital or PCM material that is Dolby Surround encoded.
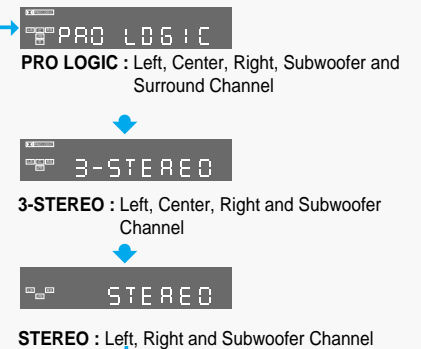
1

Press the Function Selection button to select the desired function.

2

Press the **Pro Logic** button.

• Select from FM, AM, DVD and AUX IN.

• Each time the Pro Logic button is pressed

PRO LOGIC

PRO LOGIC : Left, Center, Right, Subwoofer and Surround Channel

3-STEREO

3-STEREO : Left, Center, Right and Subwoofer Channel

STEREO

STEREO : Left, Right and Subwoofer Channel

34

Creating Realistic Sound Fields

You can use the following surround to reproduce a realistic sound field.
• Digital Multichannel Surround —Dolby Digital and DTS Digital Surround
• Dolby Pro Logic

⬤ Dolby Digital and DTS Digital Surround
To enjoy surround effectively, all the speakers need to be connected and activated.

Dolby Digital
Used to reproduce multichannel sound tracks of the software encoded with Dolby Digital ([DD DOLBY DIGITAL]).

Dolby Digital encoding method (discrete 5.1 channel digital audio format)records and digitally compresses the left front channel,right front channel,center channel,left rear channel,right rear channel,and LFE channel signals (total 6 channels,but LFE channel is counted as 0.1 channel.Therefore, LFE is called the 5.1 channel).
In addition,Dolby Digital enables stereo rear sounds,and sets the cutoff frequency of the rear treble at 20 kHz,compared to 7 kHz for Dolby Pro Logic.These facts result in better sound quality than Dolby Pro Logic.

When the system detects Dolby Digital signals,the DOLBY DIGITAL indicator lights up on the display.

DTS Digital Surround
Used to reproduce multichannel sound tracks of the software encoded with DTS Digital Surround ([DTS DIGITAL SURROUND]).

DTS Digital Surround is another discrete 5.1 channel digital audio format available on CD,LD,and DVD software.
Compared to Dolby Digital,audio compression rate is relatively low.
This fact allows DTS Digital Surround format to add breadth and depth to the reproduced sounds.As a result, DTS Digital Surround features natural,solid and clear sound.

When the system detects DTS Digital Surround signals, the DTS indicator lights up on the display.

⬤ Dolby Surround
Used to reproduce sound tracks of the VCR tapes encoded with Dolby Surround ([DD DOLBY SURROUND]).
This is only used for the sound sources coming through the AUX IN jacks.

Dolby Pro Logic and Dolby 3 Stereo
Dolby Surround encoding format records the left front channel, right front channel,center channel,and rear channel signals (total 4 channels)into 2 channels.
The **Dolby Pro Logic** decoder built in this system decodes these 2 channel signals into original 4 channel signals — matrix-based multichannel reproduction,and allows you to enjoy a realistic stereo sound in your listening room.

When one of Dolby Surround modes is selected,the PRO LOGIC indicator lights up on the display.

* Sources recorded in Dolby Surround
These are sources in which three or more channels of surround have been recorded as two channels of signals using Dolby Surround encoding technology.
Dolby Surround is used for the sound tracks of movies recorded on DVDs, LDs and video cassettes to be played on stereo VCRs, as well as for the stereo broadcast signals of FM radio, TV, satellite broadcasts and cable TV.
Decoding these signals with Dolby Pro Logic makes it possible to achieve multi-channel surround playback.
The signals can also be played on ordinary stereo equipment, in which case they provide normal stereo sound.

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DSP/EQ Function

DSP/EQ

To Select a DSP/EQ

Press the DSP/EQ Mode button.

• Press **DSP/EQ** on the front panel or **DSP/EQ** on the remote control until the required option is selected. Each time the **DSP/EQ** button is pressed in sequence, the equalizer and sound modes **"PASS, POP, ROCK, CLASSIC, CINEMA, HALL, LIVE CLUB, DISCO"** are selected in this order.

What is a DSP/EQ?
DSP/EQ synthetically recreates the sound field to achieve a more realistic, powerful sound.

Note
• DSP/EQ mode cannot be selected when a microphone is connected.
• When playing a DVD encoded in two or more channels, DSP/EQ mode cannot be selected.

Power Sound Function

Power Sound

Power Sound Function

Press the Power Sound button.

• **P. SND ON, P. SND OFF** are displayed for a few seconds.

P.SND ON

P.SND OFF

What is a Power Sound?
This system is equipped with the Power Sound feature, which makes the sound more powerful and full-bodied.

Note
• When playing a DVD encoded in two or more channels, Power Sound function cannot be selected.

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Listening to the Radio

You can listen to the chosen band (FM, AM broadcast stations) by using either the automatic or manual tuning operation.

Remote Control Unit

1
Press the **Tuner(Band)** button.

- The selection toggles back and forth between "FM" and "AM" each time the **Tuner(Band)** button is pressed.

2
Select a broadcast station.

Auto Station 1	When the ◄◄ ►►I button is pressed, a preset broadcast station is selected.
Auto Station 2	Hold in the ◄◄ ►► button. Automatic searching begins, and then stops when a station is tuned in.
Manual Station	Press the ◄◄ ►► button to tune to the chosen station. The frequency changes incrementally in either direction each time the corresponding button is pressed.

Main Unit

1
Press the **Function** button to select the desired band (FM, AM).

2
Select a broadcast station.

Auto Station 1	Press the **Stop** (■) button to select the PRESET mode. Then press the I◄◄ ►►I button to select a station stored in the preset. See the instructions on the next page to preset stations.
Auto Station 2	Press the **Stop** (■) button to select the MANUAL mode on the front panel. Then hold in the I◄◄ ►►I button to make the unit begin automatically searching for broadcast stations.
Manual Station	Press the **Stop** (■) button to select the MANUAL mode on the front panel. Press the I◄◄ ►►I button to tune to the desired station. The frequency changes incrementally in either direction each time the corresponding button is pressed.

To Listen in Mono/Stereo

Audio
MO/ST

Press the MO/ST button. (FM only)

- The selection toggles back and forth between "STEREO" and "MONO" each time the **MO/ST** button is pressed.
- In a poor reception areas, select Mono mode for a clear, interference-free broadcast.

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Presetting stations

You can store up to:
- 15 FM stations
- 15 AM stations

- **FM** .... Frequency Modulation
- **AM(MW)** .... Medium Wave

Example: Presetting FM 89.1 in the memory

1
Press the **Tuner(Band)** button and select the FM band.

- The selection toggles back and forth between "FM" and "AM" each time the **Tuner(Band)** button is pressed.

2
Select MANUAL by pressing the **Stop** (■) button on the main unit.

3
Use the ◄◄ and ►► button to tune to 89.1

`FM  1 0 1.2 1` MHz

`MANUAL`

`FM  89.1 0` MHz

4
Press the **Program** button on the remote control, FM1 will flash. If you want to save 89.1 to FM1, press Program again.

5
If you want to save 89.1 to another preset location(FM2~FM15), press I◄◄ or ►►I, then press **Program** to save it to that location.

6
To preset other stations, follow steps 1~4 again.

`FM1  89.1 0` PROGRAM MHz

`FM2  89.1 0` PROGRAM MHz

`FM  89.1 0` MHz

To store other Channels
- Follow steps 3~5 again.

To tune in a preset station
- See the previous page.

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To set up Sleep

Press the Sleep button.

- Each time the button is pressed the selection toggles as follows: SLEEP 10 ➔ SLEEP 20 ➔ SLEEP 30 ➔ SLEEP 60 ➔ SLEEP 90 ➔ SLEEP 120 ➔ SLEEP 150 ➔ OFF.
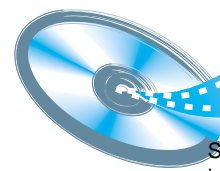
What is the Sleep function?

You can set the sleep time so that the unit powers off automatically after a preset period of time.

To Review Sleep Setting

- The remaining time for the selected Sleep time is displayed.
- Pressing the button once again changes the Sleep time from the last setting.

Problem	Check
The disc tray does not open.	• Is the disc installed with the label side facing up? • Is the power cord plugged securely into the power outlet? • Turn off the power to the unit by pressing the **Power** (⏻/⏼) button and turn it back on.
Disc does not play.	• Check the region number of the DVD. • DVD discs purchased abroad may not be playable. • This player cannot play CD-ROMs, DVD-ROMs, etc. • Check the rating level of the DVD.
Playback does not start immediately when the Play/Pause button is pressed.	• Check whether the disc has any scratch marks or is deformed.
No sound is produced.	• No sound is heard during high-speed playback, slow playback, and step motion playback modes. • Are the speakers properly connected? Is the speaker Setup correctly customized? • Is the disc severely damaged? The disc may be dirty. Wipe off fingerprints or dirt.
Sound can be heard only from a few speakers and not all six.	• When listening to a CD or radio, sound is output to the front speakers only (L/R). Select the "PRO LOGIC" option by pressing the Pro Logic button on the remote control unit to use all six speakers. • Check whether your DVD disc is 5.1 CH compatible.
Picture does not appear; sound is not produced; the disc tray opens 2-5 seconds later.	• Was the player moved suddenly from a cold place to a warm one? When condensation forms inside the player, remove the disc and let the player stand for 1 or 2 hours with the power on. (You can use the player after the condensation disappears.)
Sound quality is irregular.	• Are the speaker cables loose? • Is there any dirt or debris at the end of the speaker connector?
Dolby Digital 5.1 Channel Surround Sound is not being reproduced.	• Does the disc being played show the "Dolby Digital 5.1CH" mark ? 5.1-channel sound is reproduced only if the disc is recorded with 5.1 channel sound. • Is the DVD player connected to the proper speakers?

Problem	Check
• The disc revolves but no picture appears. • Picture shows interference and quality is poor.	• Is the TV power turned on? • Are the video cables properly connected? • Is it the player in PAUSE mode? • Is there any dirt on the disc, or is the disc damaged? • It may not be possible to play some DVD discs due to poor manufacture. • When a dark scene changes to a bright scene during playback, the screen may flicker vertically. Some disturbance is normal.
Remote control unit does not operate.	• Is the remote control being used within the appropriate distance and angle of operation for the unit? • Are there any obstacles between the remote control unit and the remote control sensor? • Are the batteries dead? Is it time to replace the batteries with new ones?
Audio or subtitle language does not operate.	• The audio or subtitle language features does not operate with DVDs that do not include multiple audio or subtitle languages.
The Menu button is pressed but the Menu screen does not appear.	• Is the remote control being used within the appropriate distance and angle of operation for the unit? • Are the batteries dead? • Does the disc have a Menu?
The screen ratio cannot be changed.	• You can play 16:9 wide DVDs in 16:9 WIDE mode or 4:3 LETTER BOX mode or 4:3 PAN-SCAN mode; but 4:3 encoded DVDs only show in 4:3 ratio. Refer to the DVD disc jacket and then select the appropriate function.
The desired radio station cannot be tuned in.	• Is the antenna installed properly? • When the antenna's input signal is weak, install an external FM antenna in an area with good reception quality.
The system is malfunctioning (the system does not work or no sound).	• While the player is in the stop mode, hold the Stop (■) button down on the main unit for over 5 seconds."INITIAL" appears on the display and all settings will return to the Factory Preset condition. **The RESET function erases all settings; do not use this function unless necessary.**

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Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause breaks in playback. Be especially careful not to scratch discs when handling them.

Handling and Storing Discs

When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.
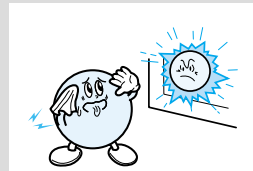• When cleaning, wipe gently from the inside to the outside of the disc.
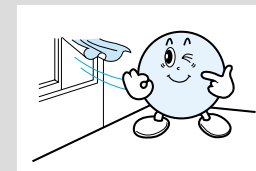
Note Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.
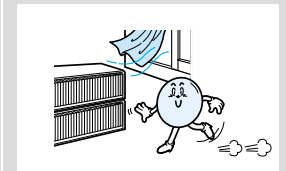
Disc Storage

Do not keep in direct sunlight	Keep in a cool ventilated area	Keep in a clean Protection jacket. Store vertically.

Warning
• Do not allow the discs to become contaminated with dirt.
• Do not load cracked discs or discs that are scratched.

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Usable Discs

Disc Types	Marks	Recording Types	Disc Size	Max. Playing Time
DVD	*DVD* VIDEO	Audio + Video	12cm	Approx. 240 min. (Single-sided)
				Approx. 480 min. (Double-sided)
			8cm	Approx. 160 min. (Single-sided)
				Approx. 160 min. (Double-sided)
VIDEO-CD	COMPACT disc DIGITAL VIDEO	Audio + Video	12cm	74 min.
			8cm	20 min.
AUDIO-CD	COMPACT disc DIGITAL AUDIO	Audio	12cm	74 min.
			8cm	20 min.

|					
DOLBY DIGITAL	DIGITAL dts SURROUND	DIGITAL SOUND	STEREO	NTSC	MP3 DIGITAL DISC PLAYBACK
Dolby Digital disc	DTS Disc	Digital Audio disc	Stereo disc	NTSC broadcast system in USA, Canada, Japan, South Korea, etc..	MP3 disc

G E N E R A L	Power Consumption	95W
	Weight	5.8Kg
	Dimensions	350(W) x 80(H) x 350(D) mm
	Operating Temperature Range	+5°C ~ +35°C
	Operating Humidity Range	10% ~ 75%
F M T U N E R	Usable Sensitivity	10dB
	S/N Ratio	60dB
	Distortion	0.5%
A M T U N E R	Usable Sensitivity	54dB
	S/N Ratio	40dB
	Distortion	2%
V I D E O O U T P U T	Composite Video	1.0Vp-p(75Ω load)
	Component Video	Y:1.0Vp-p(75Ω load)
		Pr:0.70Vp-p(75Ω load)
		Pb:0.70Vp-p(75Ω load)
	S-VIDEO	Luminance Signal: 1.0Vp-p(75Ω load)
		Color Signal: 0.286Vp-p(75Ω load)
A M P L I F I E R	Front speaker output	28W x 2(6Ω)
	Center speaker output	28W(6Ω)
	Rear speaker output	28W x 2(6Ω)
	Subwoofer speaker output	45W(3Ω)
	Frequency range	20Hz~25KHz
	S/N Ratio	75dB
	Channel separation	50dB
	Input sensitivity	(AUX)500mV

		5.1ch speaker system	
S P E A K E R	Speaker system	Front/Center/Rear speaker	Subwoofer speaker
	Impedance	6Ω x 5	3Ω
	Frequency range	150Hz~18KHz	45Hz~200Hz
	Output sound pressure level	87dB/W/M	86dB/W/M
	Rated input	28W	45W
	Maximum input	56W	90W
	Dimensions	98(W) x 110(H) x 110(D) mm	200(W) x 332(H) x 300(D) mm
	Weights	0.6Kg	3.9Kg
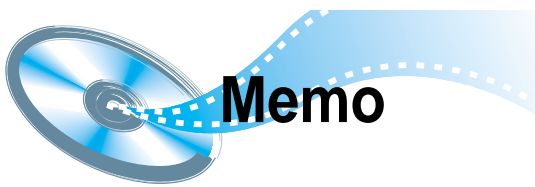
Memo

SAMSUNG
ELECTRONICS

Samsung Limited Warranty

Samsung Electronics Canada Inc. (SECA), warrants that this product is free from defective material and workmanship.

SECA further warrants that if this product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material SECA will repair or replace the product at its option.

All warranty repairs must be performed by a SECA authorized service centre. (The name and address of the location nearest you can be obtained by calling toll free **1-800-268-1620** or visiting our web site at **www.samsungcanada.com)**

Labour	Parts
one (1) year (carry-in)	one (1) year

On carry-in models, transportation to and from the service centre is the customer's responsibility.

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase. It must be presented to the authorized service centre at the time service is requested.

Exclusions

This warranty does not cover damage due to accident, fire flood and/or other acts of God; misuse, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use, or damage that occurs in shipping. Exterior and interior finish, lamps and glass are not covered under this warranty. Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty.
This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased and used in Canada.

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