

ENGLISH



HB954PAW LHB978



For service/  
support Call:


Toll Free Number

**1-800-243-0000**

(<http://us.lgservice.com>)



**Netflix Support**  
If you need help for Netflix, please contact the following:  
**Call 1-866-579-7113 or**  
**Visit [www.netflix.com/LG/help](http://www.netflix.com/LG/help)**

 As an ENERGY STAR® Partner, LG has determined that this product or product models meet the ENERGY STAR® guidelines for energy efficiency.

ENERGY STAR® is a U.S. registered mark.

## Safety Precaution



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



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



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

**WARNING :** TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

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

**CAUTION:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating. The openings shall be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product shall not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction has been adhered to.

**CAUTION :** This product employs a Laser System.



To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Shall the unit require maintenance, contact an authorized service center.

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

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

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

**CAUTION concerning the Power Cord**

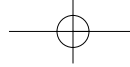
**Most appliances recommend they be placed upon a dedicated circuit ;**

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

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

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

To disconnect power from the mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.



**FCC WARNING:** This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

**REGULATORY INFORMATION: FCC Part 15**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation.

This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**- Labelling information:**

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

**- RF Exposure Statement:**

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any antenna or transmitter other than those contained in this device.

This Class B digital apparatus complies with Canadian ICES-003, Issue 2, and RSS-210, Issue 4 (Dec. 2000).

"To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing."

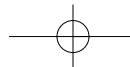
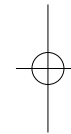
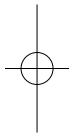
Cet appareil numérique de la classe B est conforme à la norme NMB-003, No. 2, et CNR-210, No. 4 (Dec. 2000).

<< Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilisé à l'intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.>>

Operation is subject to the following two conditions:

this device may not cause interference, and (2) this device must **accept any interference**, including interference that may cause undesired operation of the device.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.



# IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## Copyrights

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission. This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs picture noise will appear. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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



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

## Notes on Copyrights

- Because AACS (Advanced Access Content System) is approved as content protection system for BD format, similar to use of CSS (Content Scramble System) for DVD format, certain restrictions are imposed on playback, analog signal output, etc., of AACS protected contents. The operation of this product and restrictions on this product may vary depending on your time of purchase as those restrictions may be adopted and/or changed by AACS after the production of this product. Furthermore, BD-ROM Mark and BD+ are additionally used as content protection systems for BD format, which imposes certain restrictions including playback restrictions for BD-ROM Mark and/or BD+ protected contents. To obtain additional information on AACS, BD-ROM Mark, BD+, or this product, please contact an authorized Customer Service Center.
- Many BD-ROM/DVD discs are encoded with copy protection. Because of this, you should only connect your player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected discs.
- This product incorporates copyright protection technologies that are protected by 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.
- Under the U.S. Copyright laws and Copyright laws of other countries, unauthorized recording, use, display, distribution, or revision of television programs, videotapes, BD-ROM discs, DVDs, CDs and other materials may subject you to civil and/or criminal liability.

## Software Update

The software of the player can be updated by connecting it to the Internet using the LAN cable. We recommend to update the player using the latest software to enhance the products operation and/or add new features (see page 45).

## To use BD-Live functionality

You must attach a USB Flash Drive using the USB port (see page 20).



## What is SIMPLINK?

Some functions of this unit are controlled by the TV's remote control when this unit and LG TV's with SIMPLINK are connected through HDMI connection.

- Controllable functions by LG TV's remote control; Play, Pause, Scan, Skip, Stop, Power Off, etc.
- Refer to the TV owner's manual for the details of SIMPLINK function.
- LG TV's with SIMPLINK function have the logo as shown above.

## Note:

Depending on the disc type or playing status, some SIMPLINK operation may differ from your purpose or not work.

## Licenses

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

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio I Essential are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

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"BD-LIVE" logo is trademark of Blu-ray Disc association.

"DVD Logo" is trademark of DVD Format/Logo Licensing Corporation.

"x.v.Color" is a trademark of Sony Corporation. "Blu-ray Disc" is a trademark.

"BONUSVIEW" is trademark of Blu-ray Disc Association.

This product is licensed under the AVC patent portfolio license and VC-1 patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard and VC-1 Standard ("AVC/VC-1 Video") and/or (ii) decode AVC/VC-1 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC/VC-1 Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See <http://www.mpegla.com>.

"AVCHD" and the AVCHD logo are trademarks of Panasonic and Sony Corporation.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.


iPhone is a trademark of Apple Inc.

## Introduction

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

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

### About the Symbol Display

"  " may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific media.

### Symbols Used in this Manual

#### **Note:**

Indicates special notes and operating features.

#### **Tip:**

Indicates tips and hints for making the task easier.

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

<b>ALL</b>	All discs listed below
<b>BD</b>	BD-ROM disc
<b>DVD</b>	DVD-Video, DVD±R/RW in Video mode or VR mode and finalized
<b>AVCHD</b>	DVD±R/RW in AVCHD format
<b>ACD</b>	Audio CDs
<b>MP3</b>	MP3 files
<b>WMA</b>	WMA files

## Handling the Unit

### When shipping the unit

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

### Keeping the exterior surfaces clean

Use the supplied cloth for cleaning the surfaces of the player.

- Do not use volatile liquids such as insecticide spray near the unit.
- Wiping with strong pressure may damage the surface.
- Do not leave rubber or plastic products in contact with the unit for a long period of time.

### Cleaning the unit

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

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

### Maintaining the Unit

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

For details, please contact your nearest authorized service center.

## Notes on Discs

### Handling Discs

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

### Storing Discs

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

### Cleaning Discs

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

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

## Playable Discs



### Blu-ray Disc

- Discs such as movies that can be purchased or rented
- BD-R/RE discs that contain audio titles, MP3, WMA, or Photo files.



### DVD-VIDEO (8 cm / 12 cm disc)

Discs such as movies that can be purchased or rented



### DVD-R (8 cm / 12 cm disc)

- Video mode and finalized only
- Supports the dual layer disc also
- AVCHD format



### DVD-RW (8 cm / 12 cm disc)

- VR mode, Video mode and finalized only
- AVCHD format



### DVD+R (8 cm / 12 cm disc)

- Finalized disc only
- Supports the dual layer disc also
- AVCHD format



### DVD+RW (8 cm / 12 cm disc)

- Video mode and finalized only
- AVCHD format



### Audio CD (8 cm / 12 cm disc)

Audio CDs or CD-Rs/CD-RWs in audio CD format that can be purchased



### CD-R/CD-RW (8 cm / 12 cm disc)

CD-R/CD-RW discs that contain audio titles, MP3, WMA, or Photo files.

- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). Doing so may result in malfunctions.
- Depending on the recording software & the finalization, some recorded discs (CD-R/RW or DVD±R/RW) may not be playable.
- DVD±R/RW and CD-R/RW discs recorded using a personal computer or a DVD or CD Recorder may not play if the disc is damaged or dirty, or if there is dirt or condensation on the player's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- This player requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions to ensure compatible playback.
- Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

## Notes:

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/RW) disc itself, some CD-R/RW (or DVD±R/RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.



## BD-ROM Disc Features

BD-ROM Discs can store 25 GB (single layer) or 50 GB (dual layer) on a single sided disc - about 5 to 10 times the capacity of a DVD.

BD-ROM Discs also support the highest quality HD video available in the industry (up to 1920 x 1080) - Large capacity means no compromise on video quality. Furthermore, a BD-ROM disc has the same familiar size and look as DVD.

- The following BD-ROM disc features are disc dependent and will vary.
- Appearance and navigation of features will also vary from disc to disc.
- Not all discs will have the features described below.
- BD-ROM, Hybrid disc have both BD-ROM and DVD (or CD) layers on one side. On such discs, BD-ROM layer will be only played back in this player.

### Video highlights

The BD-ROM format for movie distribution supports three highly advanced video codecs, including MPEG-2, MPEG4 AVC (H.264), and SMPTE VC1. HD video resolutions are also available:

- 1920 x 1080 HD
- 1280 x 720 HD

### Graphic planes

Two individual, full HD resolution (1920x1080) graphic planes (layers) are available, on top of the HD video layer. One plane is assigned to video-related, frame accurate graphics (like subtitles), and the other plane is assigned to interactive graphic elements, such as buttons or menus. For both planes, various wipes, fades and scroll effects may be available.

### For High-Definition Playback

To view high-definition contents from BD-ROM discs, an HDTV is required. Some discs may require HDMI OUT for viewing of high-definition contents. Ability to view high-definition contents in BD-ROM discs may be limited depending on the resolution of your TV.

### Menu sounds

When you highlight or select a menu option, sounds can be heard such as button clicks or a voice-over explaining the highlighted menu choice.

### Multi-page/PopUp Menus

With DVD-Video, playback is interrupted each time a new menu screen is accessed. Due to BD-ROM disc's ability to preload data from the disc without interrupting playback, a menu can consist of several pages.

You can browse through the menu pages or select different menu paths, while the audio and video remain playing in the background.

### Interactivity

Certain BD-ROM Discs may contain animated menus and/or trivia games.

### User Browsable Slideshows

With BD-ROM Discs, you can browse through various still pictures while the audio remains playing.

### Subtitles

Depending on what is contained on the BD-ROM disc, you may be able to select different font styles, sizes and colours for some subtitles. Subtitles may also be animated, scrolled or faded in and out.

### BD-J Interactive Capability

The BD-ROM format supports Java for interactive functions. "BD-J" offers content providers almost unlimited functionality when creating interactive BD-ROM titles.

### BD-ROM Disc Compatibility

This player supports BD-ROM Profile 2.

- Discs supporting BD-Live (BD-ROM version 2 Profile 2) that allows interactive functions to be used when this unit is connected to the Internet in addition to the BONUSVIEW function.
- Discs supporting BONUSVIEW (BD-ROM version 2 Profile 1 version 1.1/Final Standard Profile) that allows Virtual packages or Picture-in-Picture functions to be used.

## Regional Code

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This unit has a regional code printed on the rear of the unit. This unit can play only BD-ROM or DVD discs labeled same as the rear of the unit or "ALL".

## AVCHD (Advanced Video Codec High Definition)

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- This player can playback AVCHD format discs. These discs are normally recorded and used in camcorders.
- The AVCHD format is a high definition digital video camera format.
- The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format.
- Some AVCHD discs use the "x.v.Colour" format.
- This player can playback AVCHD discs using "x.v.Colour" format.
- "x.v.Colour" is a trademark of Sony Corporation.
- Some AVCHD format discs may not play, depending on the recording condition.
- AVCHD format discs need to be finalized.
- "x.v.Colour" offers a wider colour range than normal DVD camcorder discs.

## Compatibility Notes

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- Because BD-ROM are a new format, certain disc, digital connection and other compatibility issues are possible. If you experience compatibility problems, please contact an authorized Customer Service Center.
- Viewing high-definition content and up-converting standard DVD content may require a HDMI-capable input or HDCP-capable DVI input on your display device.
- Some BD-ROM and DVD discs may restrict the use of some operation commands or features.
- You can use a USB Flash Drive that is used to store some disc related information, including downloaded on-line content. The disc you are using will control how long this information is retained.

## Certain System Requirements

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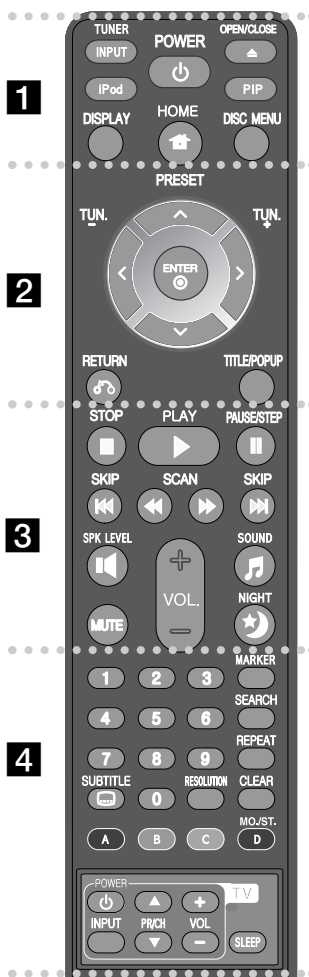
For high definition video playback:

- High definition display that has COMPONENT or HDMI input jacks.
- BD-ROM disc with high definition content.
- HDMI or HDCP capable DVI input on your display device is required for some content (as specified by disc authors).
- For up-conversion of standard definition DVD, a HDMI or HDCP capable DVI input on your display device is required for copy protected content.

For Dolby® Digital Plus, Dolby TrueHD and DTS-HD multi-channel audio playback:

- An amplifier/receiver with a built-in (Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD) decoder.
- Main, center, surround speakers and subwoofer as necessary for chosen format.

## Remote control



● ● ● ● ● ● ● ● **1** ● ● ● ● ● ●

**INPUT (TUNER)**: Changes the input source (AUX, PORTABLE, OPTICAL, COAXIAL, HDMI IN 1, HDMI IN 2, FM, AM).  
**(HDMI IN 1/2: LHB977 only)**

**POWER**: Switches the player ON or OFF.

**OPEN/CLOSE (▲)**: Opens and closes the disc tray.

**iPod**: Selects REMOTE IPOD or OSD IPOD mode.

**PIP\***: Switches on/off Secondary Video (Picture-in-picture) (BD-ROM only).

**DISPLAY**: Displays or exits On-Screen Display.

**HOME**: Displays or exits the [Home Menu].

**DISC MENU**: Accesses menu on a disc.

● ● ● ● ● ● ● ● **2** ● ● ● ● ● ●

**Direction buttons**: Selects an option in the menu.

**PRESET (▲/▼)**: Selects programme of Radio.

**TUN. (+/-)**: Tunes in the desired radio station.

**ENTER (◎)**: Acknowledges menu selection.

**RETURN (↩)**: Exits the menu or resumes playback. The resume play function may work depending on the BD-ROM disc.

**TITLE/POPUP**: Displays the DVD title menu or BD-ROM's popup menu, if available.

● ● ● ● ● ● ● ● **3** ● ● ● ● ● ●

**STOP (■)**: Stops playback.

**PLAY (▶)**: Starts playback.

**PAUSE/STEP (⏸)**: Pauses playback.

**SKIP (⏮ / ⏭)**: Go to next or previous chapter / track / file.

**SCAN (⏪ / ⏩)**: Searches backward or forward.

**SPK LEVEL (🔊)**: Sets the sound level of desired speaker.

**SOUND (🎵)**: Selects a sound mode.

**MUTE**: Press MUTE to mute your unit. You can mute your unit in order, for example, to answer the telephone.

**VOL. (+/-)**: Adjusts speaker volume.

**NIGHT (☾)**: Sets the late night function.

● ● ● ● ● ● ● ● **4** ● ● ● ● ● ●

**0-9 numerical buttons**: Select numbered options in a menu.

**SUBTITLE (☑)**: Selects a subtitle language.

**RESOLUTION**: Sets the output resolution for HDMI and COMPONENT VIDEO OUT jacks.

**MARKER**: Marks any point during playback.

**SEARCH**: Displays or exits the search menu.

**REPEAT**: Repeat a desired section.

**CLEAR**: Removes a mark on the search menu or a number when setting the password.

**Coloured (A, B, C, D) buttons**: Use to navigate BD-ROM menus. They are also used for [MOVIE], [PHOTO] and [MUSIC] menu.

- D button: Selects MONO or STEREO in FM mode.

**TV Control Buttons**: See page 46.

**SLEEP**: Sets a certain period of time after which the unit will switch to standby.

\* Depending on a disc type or the pre-recorded contents of the BD-ROM disc, different functions may be executed than other media or there are no response when pressing some buttons (depending on media used).

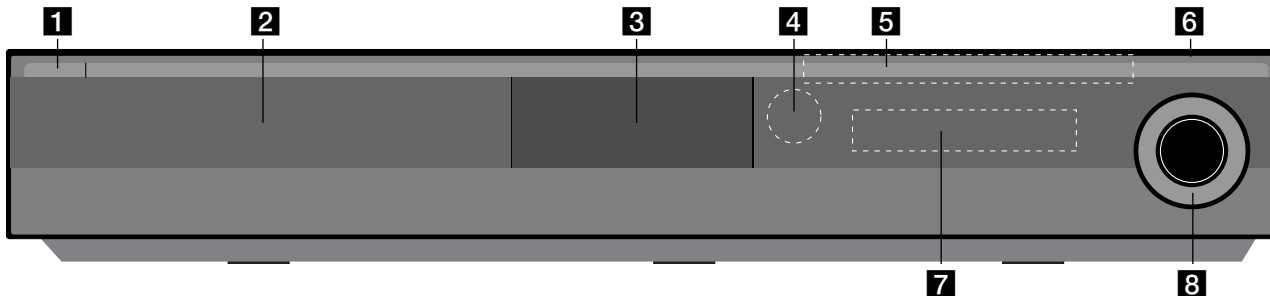
### Remote Control Operation

Point the Remote Control at the remote sensor and press the buttons.

#### Remote Control Battery Installation

Remove the battery cover on the rear of the Remote Control, and insert a R03 (size AAA) battery with  $+$  and  $-$  matched correctly.

## Front panel



### 1 (POWER) Button

Switches the unit ON or OFF.

### 2 Disc Tray

Insert a disc here.

### 3 iPod Dock

Connect your iPod here.

Push  to open the iPod Dock.

### 4 Remote Sensor

Point the remote control here.

### 5 Touch Buttons

#### - (OPEN/CLOSE)

Opens or closes the disc tray.

#### - (PLAY / PAUSE)

Starts playback.

Pause playback temporarily, press again to exit pause mode.

#### - (STOP)

Stops playback.

#### - (SKIP)

Go to next or previous file/track/chapter.

Searches backward or forward if you press and hold it.

### - FUNC.

Changes the input source (AUX, PORTABLE, OPTICAL, COAXIAL, HDMI IN 1, HDMI IN 2, FM, AM, OSD IPOD, REMOTE IPOD) or displays On-Screen Display. **(HDMI IN 1/2: LHB977 only)**

### 6 USB Port

Connect a USB Flash Drive.

### 7 Display Window

Shows the current status of the player.

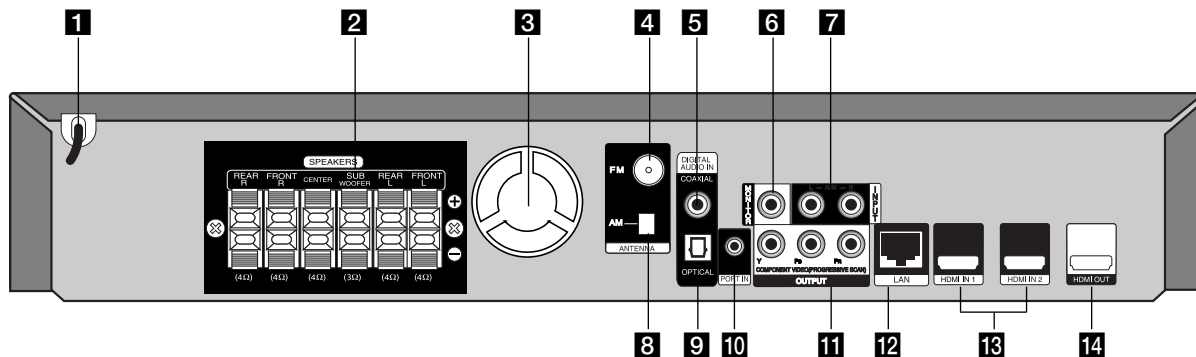
### 8 VOLUME

Adjusts speaker volume.

### Precautions in using the touch buttons

- Use the touch buttons with clean and dry hands.
  - In a humid environment, wipe out any moisture on the touch buttons before using.
- Do not press the touch buttons hard to make it work.
  - If you apply too much strength, it can damage the sensor of the touch buttons.
- Touch the button that you want to work in order to operate the function correctly.
- Be careful not to have any conductive material such as metallic object on the touch buttons. It can cause malfunctions.

## Rear panel



### 1 AC Power Cord

Plug into the power source.

### 2 SPEAKER Connectors

Connect the speakers.

### 3 Cooling Fan

### 4 FM ANTENNA Connector

Connect the FM antenna.

### 5 DIGITAL AUDIO IN (COAXIAL)

Connect to digital (coaxial) audio equipment.

### 6 MONITOR OUTPUT

Connect to a TV with video inputs.

### 7 AUX (L/R) INPUT

Connect to an external source with 2 channel audio outputs.

### 8 AM ANTENNA Connector

Connect the AM antenna.

### 9 DIGITAL AUDIO IN (OPTICAL)

Connect to digital (optical) audio equipment.

### 10 PORT IN

Connect to a portable player with audio outputs.

### 11 COMPONENT VIDEO (Y Pb Pr) OUTPUT (PROGRESSIVE SCAN)

Connect to a TV with Y Pb Pr inputs.

### 12 LAN port

Connect a network with an always-on broadband connection.

### 13 HDMI IN (Type A) 1/2 (LHB977 only)

Connect to an external source with HDMI outputs.

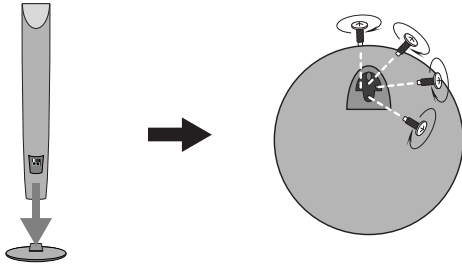
### 14 HDMI OUT (Type A)

Connect to TV with HDMI inputs. (Interface for digital audio and video)

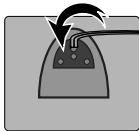
## Assembling the Speakers (LHB977 only)

Before connecting the speakers, assemble the speakers.  
(The illustrations in the following steps are for the front speakers.)

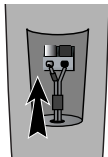
- 1 Attach the speaker to the desktop stand.**  
Secure the speaker with the screws.



- 2 Thread the speaker cable through the hole in the bottom of the desktop stand.**



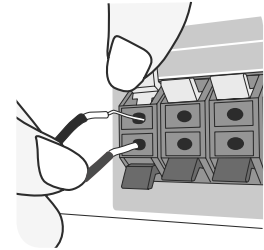
- 3 Connect the speaker cables to the speaker.**  
Connect the black end of each wire to the terminal marked - (minus) and the other end to the terminal marked + (plus).



## Speaker Connection

### Attaching the speakers to the player

- 1 You will have received six speaker cables.**  
Each one is color-coded by a band near each end and connects one of the six speakers to the player.
- 2 Connect the wires to the player.**  
Match each wire's colored band to the same colored connection terminal on the rear of the player. To connect the cable to the player, press each plastic finger pad to open the connection terminal. Insert the wire and release the finger pad.



Connect the black end of each wire to the terminals marked - (minus) and the other end to the terminals marked + (plus).

- 3 Connect the wires to the speakers.**  
Connect the other end of each wire to the correct speaker according to the color coding:

COLOR	SPEAKER	POSITION
Grey	Rear	Behind you and to your right.
Blue	Rear	Behind you and to your left.
Green	Center	Above or below screen, directly in front of you.
Orange	Sub Woofer	This can be placed in any front position.
Red	Front	In front of you, to the right of the screen.
White	Front	In front of you, to the left of the screen.

To connect the cable to the speakers, press each plastic finger pad to open the connection terminals on the base of each speaker. Insert the wire and release the finger pad.

#### Be careful of the following

Be careful to make sure children not to put their hands or any objects into the \*speaker duct.

\*Speaker duct: A hall for plentiful bass sound on speaker cabinet(enclosure).

#### FM/AM Antenna connection

AM - Connect the AM loop antenna to the player.

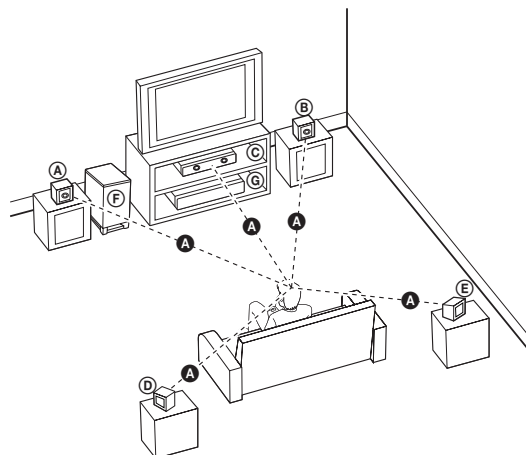
FM - Connect the FM antenna.

The reception will be its best when the two loose ends of the antenna are in a straight and horizontal line.

## Positioning the System

The following illustration shows an example of positioning the system. Note that the illustrations in these instructions differ from the actual unit for explanation purposes.

For the best possible surround sound, all the speakers other than the subwoofer should be placed at the same distance from the listening position (A).



- (A) Front left speaker (L)/ (B) Front right speaker (R): Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible.
- (C) Center speaker: Place the center speaker above or below the monitor or screen.
- (D) Surround left speaker (L)/ (E) Surround right speaker (R): Place these speakers behind your listening position, facing slightly inwards.
- (F) Subwoofer: The position of the subwoofer is not so critical, because low base sounds are not highly directional. But it is better to place the subwoofer near the front speakers. Turn it slightly toward the center of the room to reduce the wall reflections.
- (G) Unit

## Connections to Your TV

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

### Tips:

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

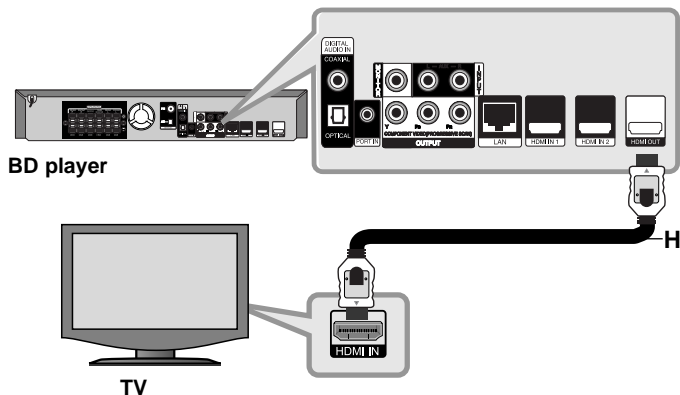
### Cautions:

- Make sure the player is connected directly to the TV. Tune the TV to the correct video input channel.
- Do not connect your player via your VCR. The image could be distorted by the copy protection system.

## HDMI Connection

If you have a HDMI TV or monitor, you can connect it to this player using a HDMI cable.

Connect the HDMI OUT jack on the player to the HDMI IN jack on a HDMI compatible TV or monitor (**H**).



Set the TV's source to HDMI (refer to TV's Owner's manual).

### Notes:

- You must select a HDMI audio output that your TV accepts using [HDMI Audio] options on the [Setup] menu (see page 24).
- If a connected HDMI device does not accept the audio output of the unit, the HDMI device's audio sound may be distorted or may not output.

### Tips:

- You can fully enjoy digital audio and video signals together with this HDMI connection.
- When you use HDMI connection, you can change the resolution for the HDMI output. (Refer to "Resolution Setting" on page 16-17.)
- Select the type of video output from the HDMI OUT jack using [HDMI Color Setting] option on the [Setup] menu (see page 22).

### Cautions:

- Changing the resolution when the connection has already been established may result in malfunctions. To solve the problem, turn off the player and then turn it on again.
- When the HDMI connection with HDCP is not verified, TV screen is changed to black screen. In this case, check the the HDMI connection, or disconnect the HDMI cable.
- If there is noise or lines on the screen, please check the HDMI cable (length is generally limited to 15ft).

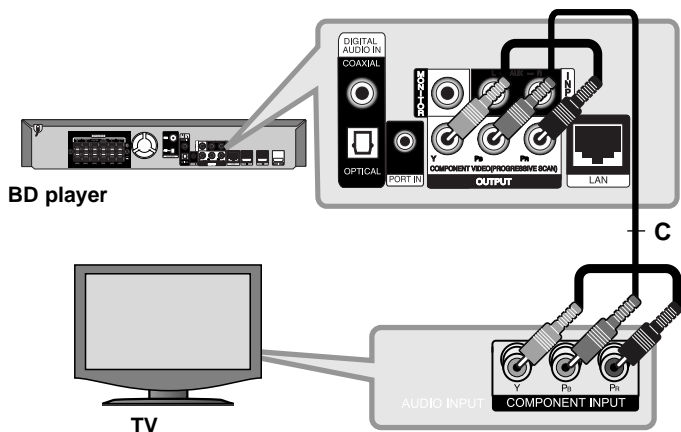


### Additional Information for HDMI

- When you connect a HDMI or DVI compatible device make sure of the following:
  - Try switching off the HDMI/DVI device and this player. Next, switch on the HDMI/DVI device and leave it for around 30 seconds, then switch on this player.
  - The connected device's video input is set correctly for this unit.
  - The connected device is compatible with 720x480p, 1280x720p, 1920x1080i or 1920x1080p video input.
- Not all HDCP-compatible HDMI or DVI devices will work with this player.
  - The picture will not be displayed properly with non-HDCP device.
  - This player does not playback and TV screen is changed to black screen.

### Component Video Connection

Connect the COMPONENT VIDEO OUT jacks on the player to the corresponding input jacks on the TV using Y Pb Pr cables (C). You can hear the sound through the speakers.

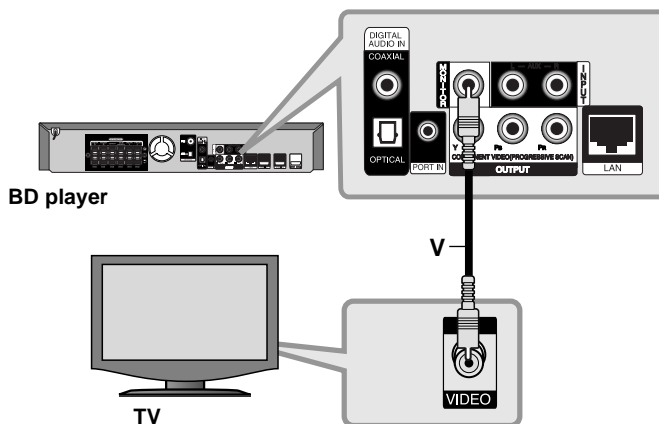


### Tip:

When you use COMPONENT VIDEO OUT connection, you can change the resolution for the output. (Refer to "Resolution setting" on page 16-17.)

### Video Connection

Connect the MONITOR OUTPUT jack on the player to the video in jack on the TV using a video cable (V). You can hear the sound through the speakers.



## Resolution Setting

The player provides several output resolutions for HDMI OUT and COMPONENT VIDEO OUT jacks.

You can change the resolution using [Setup] menu or pressing the RESOLUTION button in stop mode.

### **Note:**

Since several factors affect the resolution of video output, see “Available resolution according to the resolution setting” on next page.

### **How to change the resolution using RESOLUTION button**

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Press RESOLUTION button in stop mode.

### **How to change the resolution using the [Setup] menu**

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- 1 Press HOME and the [Home Menu] appears.
- 2 Select the [Setup] and press ENTER. The [Setup] menu appears.
- 3 Use ▲ / ▼ to select [DISPLAY] option then press ► to move to the second level.
- 4 Use ▲ / ▼ to select the [Resolution] option then press ► to move to the third level.
- 5 Use ▲ / ▼ to select the desired resolution then press ENTER to confirm your selection.