



# MICRO HI-FI SYSTEM OWNER'S MANUAL

MODEL: LF-U850 (LF-U850A/D/X, LFS-U850)



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

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



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



**CAUTION: THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY.**  
TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.



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

CLASS 1 LASER PRODUCT  
KLASSE 1 LASER PRODUKT  
LUOKAN 1 LASER LAITE  
KLASS 1 LASER APPARAT  
CLASSE 1 PRODUIT LASER



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

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

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

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



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

#### **CAUTION concerning the Power Cord**

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

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

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

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

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# 1.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 CD player. Should the unit require service, contact an authorized service location (refer to Chapter 4, Maintenance and Service).

## Symbols Used in this Manual

-  Indicates hazards likely to cause harm to the unit itself or other material damage.
-  Indicates special notes and operating features.

## 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.

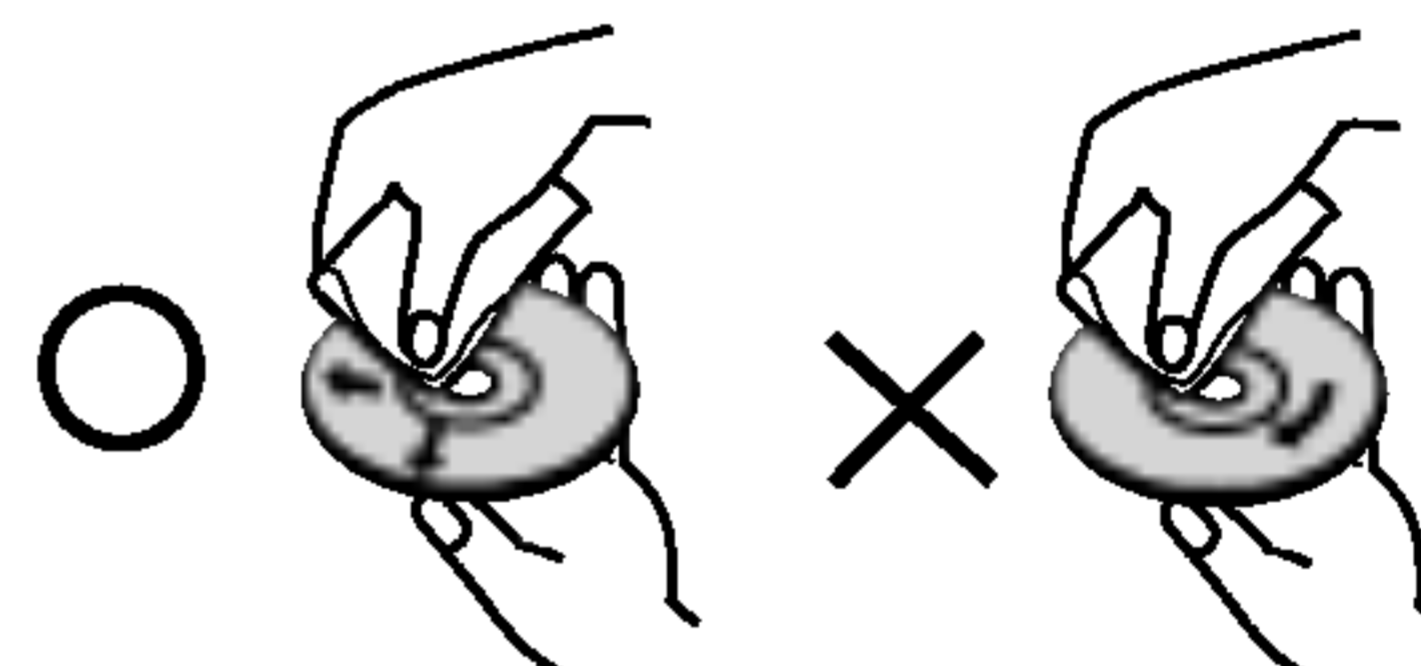


### Storing discs

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.

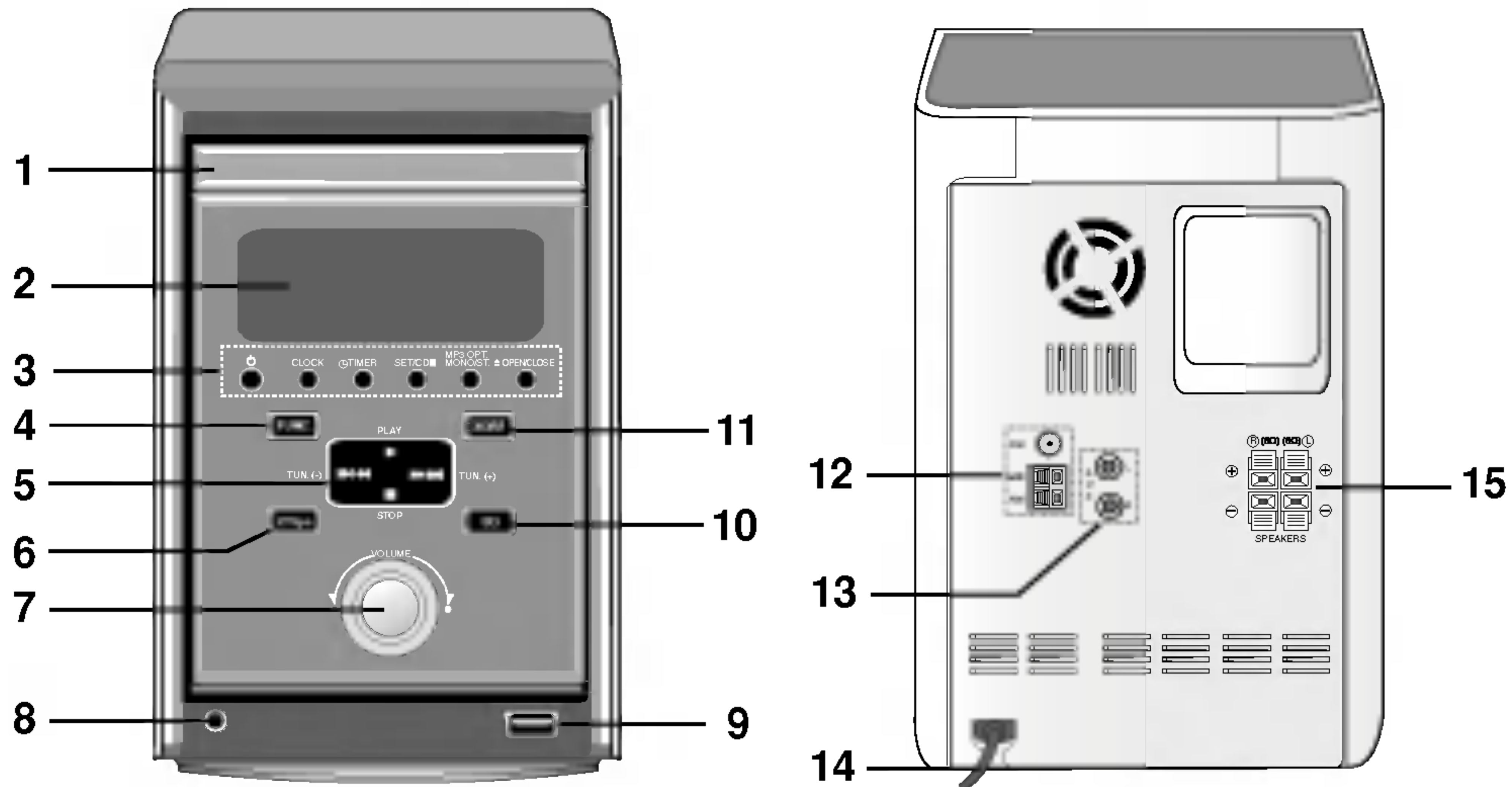
### Cleaning discs

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.



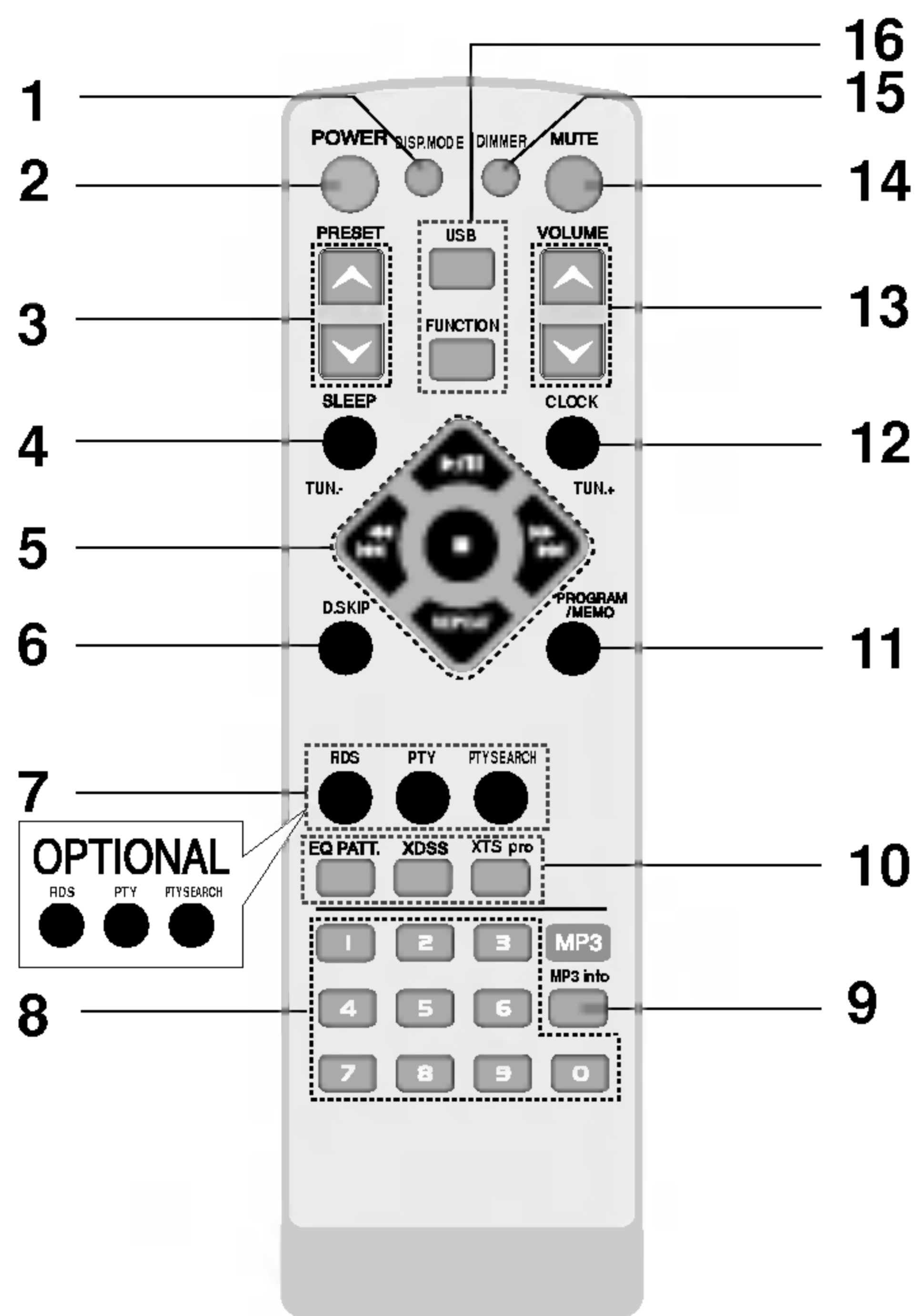
Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

## Front / Rear Panel



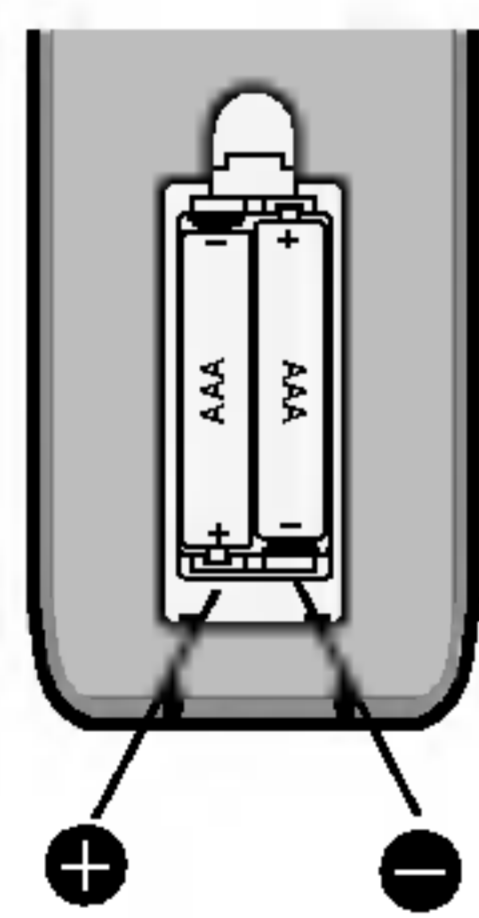
- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. CD DOOR</li> <li>2. DISPLAY WINDOW</li> <li>3. <ul style="list-style-type: none"> <li>• POWER (⏻) button</li> <li>• CLOCK button</li> <li>• ⏸ TIMER button</li> <li>• SET/CD   button</li> <li>• MP3 OPT. button</li> <li>• MONO/STEREO (MONO/ST.) button</li> <li>• ▲ OPEN/CLOSE button</li> </ul> </li> <li>4. FUNCTION (FUNC.) button<br/>(FM, AM, CD, AUX, USB)</li> <li>5. <ul style="list-style-type: none"> <li>• PLAY (▶) button</li> <li>• STOP(■) button</li> <li>• TUN. (-/+) buttons (TUNER)</li> <li>• CD SKIP/SEARCH (⏮ ⏪/⏩ ⏭) buttons</li> </ul> </li> </ol> | <ol style="list-style-type: none"> <li>6. XTSpro button</li> <li>7. VOLUME CONTROL KNOB</li> <li>8. HEADPHONE SOCKET (🎧 PHONES):<br/>∅3.5mm</li> <li>9. USB connector</li> <li>10. EQUALIZER PATTERN (EQ) button</li> <li>11. XDSS button</li> <li>12. ANTENNA TERMINAL</li> <li>13. AUXILIARY INPUT (AUX) connector</li> <li>14. POWER CORD</li> <li>15. SPEAKER TERMINAL</li> </ol> |
|---|---|

## Remote Control



1. DISPLAY MODE (DISP.MODE) button
2. POWER button
3. PRESET (▼/▲) buttons
4. SLEEP button
5. CD FUNCTION buttons
  - PLAY/PAUSE (▶/⏸) button
  - CD STOP(■) button
  - CD SKIP/SEARCH (◀◀ ◀/▶▶ ▶▶) button
  - REPEAT button
6. D.SKIP button
7. RDS (Radio Data System) FUNCTION buttons
  - RDS button : OPTIONAL
  - PTY button : OPTIONAL
  - PTY SEARCH button : OPTIONAL
8. NUMBER buttons
9. MP3 file information display (Mp3 Info) button
10. • EQUALIZER PATTERN (EQ PATT.) button
  - XDSS button
  - XTS pro button
11. PROGRAM/MEMO button
12. CLOCK button
13. VOLUME CONTROL (▼/▲) buttons
14. MUTE button
15. DIMMER button
16. • USB button
  - FUNCTION button

## Remote Control battery installation



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

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

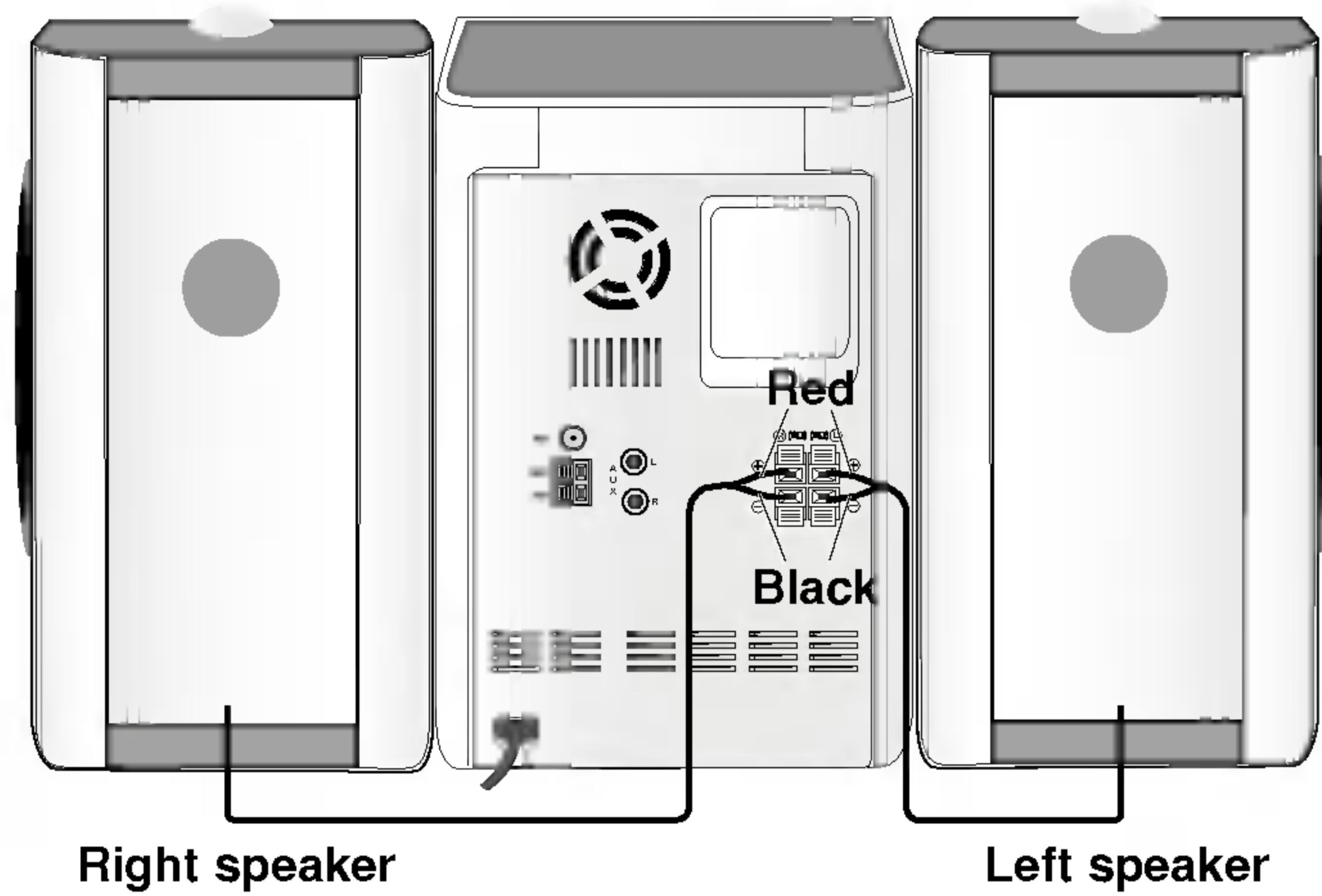
## Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.  
 Distance: About 23 ft (7 m) from the front of the remote sensor.  
 Angle: About 30° in each direction of the front of the remote sensor.

## 2. Installation

### Speaker System Connection

Connect the speaker cords to the speaker terminal.

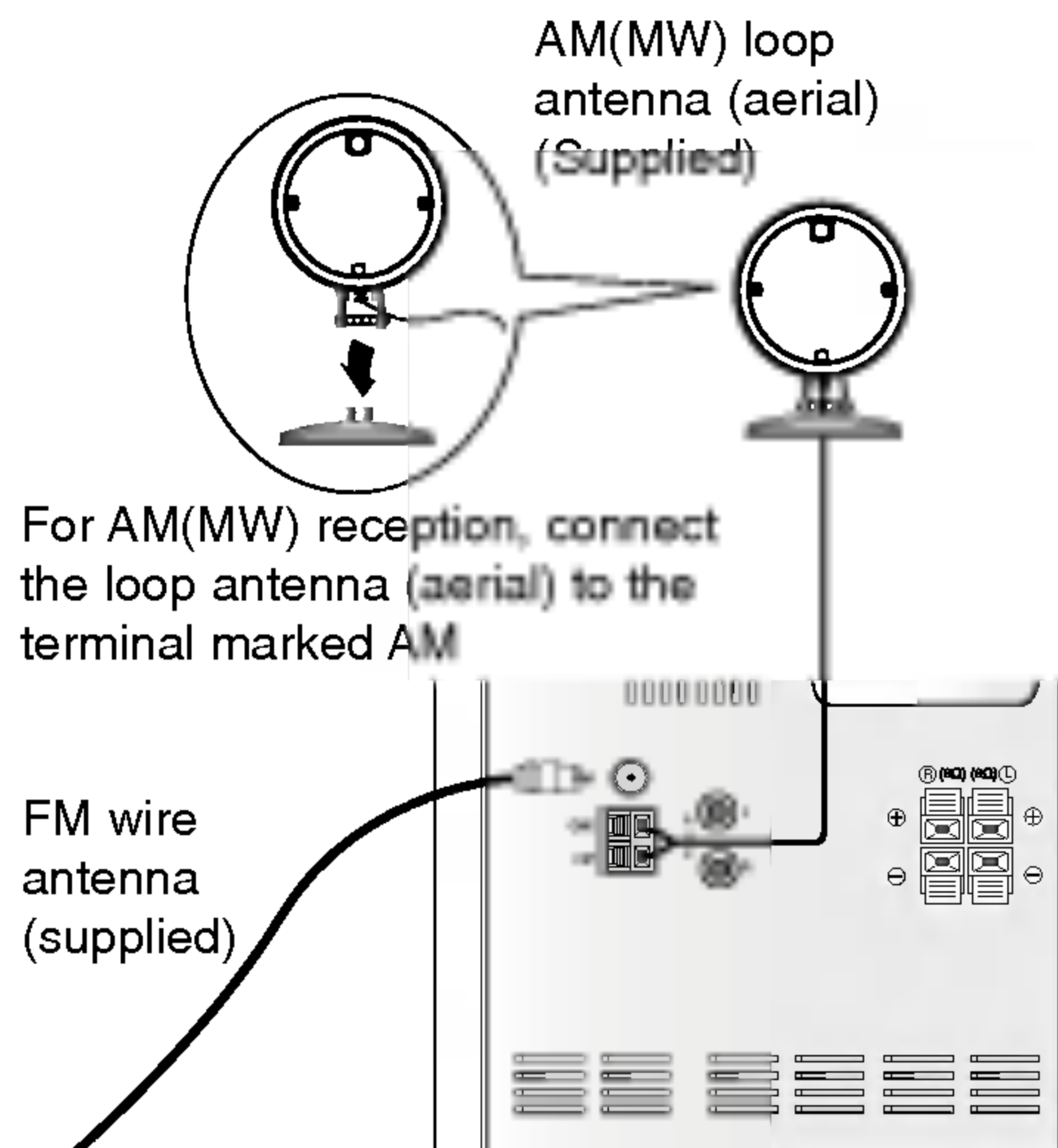


#### Notes

- Be sure to match the speaker cord to the appropriate terminal on the components: + to + and - to -. If the cords are reversed, the sound will be distorted and will lack base.
- Do not disassemble the front cover of supplied speaker.
- Connect the Left/Right speaker correctly. If it reversed, the sound may be distorted.

### Antenna (Aerial) Connections

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

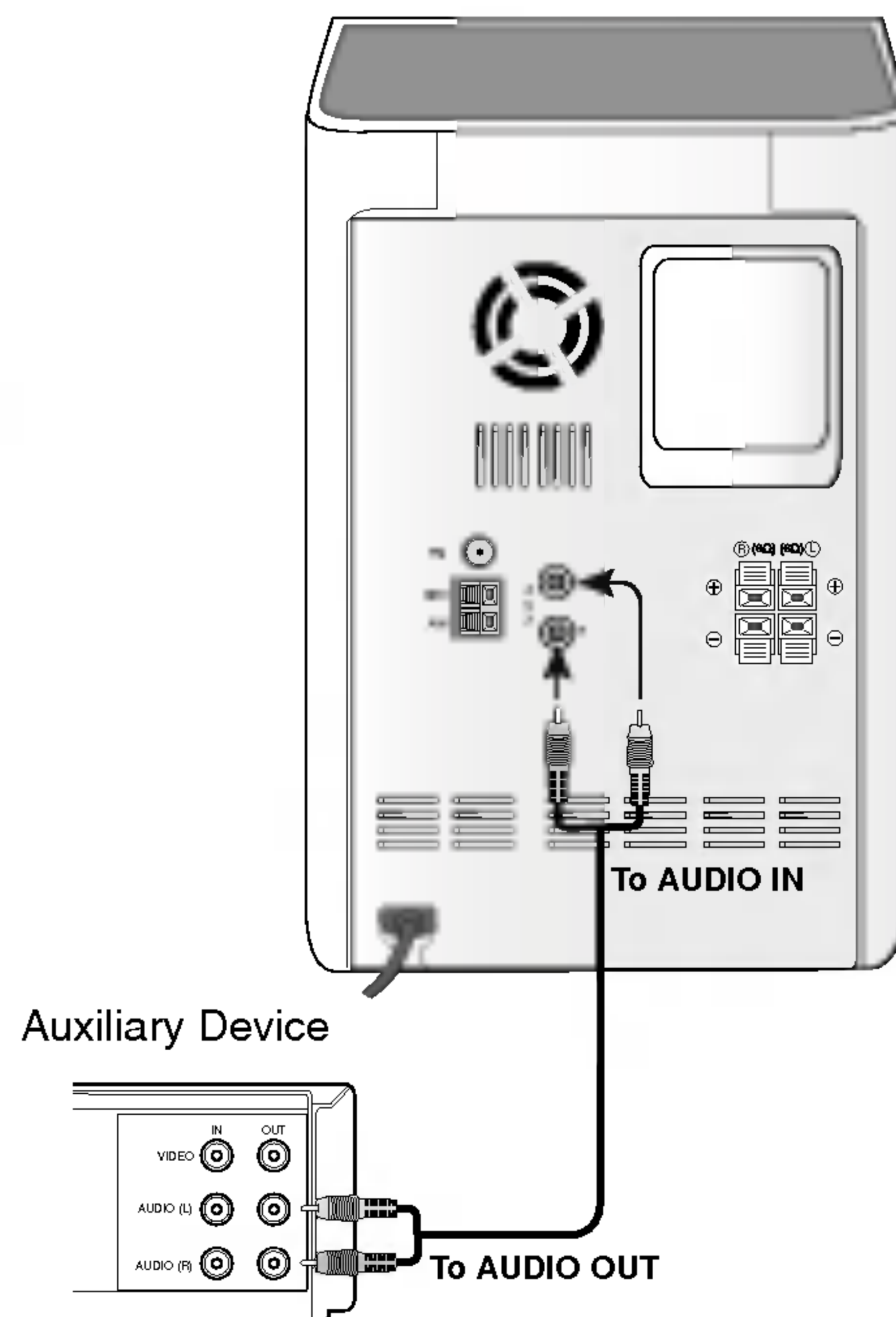


#### Notes

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

### Auxiliary Devices

Connect an auxiliary device such as a TV or VCR via the rear mounted AUX sockets and press AUX.



# 3.Operation

## Audio Adjustment


### Volume Adjustment

- Turn the VOLUME CONTROL KNOB clockwise to increase the sound level, or counterclockwise to decrease it.
- Using the remote control, press VOLUME CONTROL (▲) to increase the sound level, or (▼) to decrease it.

### Headphone Socket

Connect a stereo headphone plug (ø3.5mm) into the headphone jack to listen to the sound through headphones. The speakers are automatically disconnected when you plug in the headphones (not supplied).

### MUTE

Press **MUTE** to temporarily stop the sound such as when you answer the telephone. The “” indicator flashes in the display window. To cancel it, press MUTE again.

### Sound Quality Adjustment

You can select a desired sound mode by using **EQ** button on the front panel or **EQ PATT.** button on the remote control.

When a sound mode passes by with the left side from the right, press EQ or EQ PATT..

FLAT → POP → CLASSIC → ROCK →  
DRAMA → JAZZ → FLAT ...

### XDSS (Extreme Dynamic Sound System)

Press **XDSS** to reinforce treble, bass and the surround effect. The “XDSS ON” or “XDSS OFF” indicator lights. To cancel, press XDSS again.

### MP3 Optimizer

This function is optimized for compressible MP3 file. It is improved the bass sound to make sweet sound.

Each time you press **MP3 OPT.** the setting changes in the following order.

MP3-OPT ON → MP3-OPT OFF

### XTS pro

The unique sound quality of the LG Technology creates the optimum sound for you to play the perfect playback of the original sound and to feel the living sound source.

Each time you press **XTS pro** the setting changes in the following order.

XTS-PRO ON → XTS-PRO OFF

### DIMMER

This function is turned the LED (Light-emitting diode) of front panel off and darken the display window by half in power-on status .

Press **DIMMER** once. The LED (Light-emitting diode) of front panel is turned off.

If you press it once more, the display window will be darken by half. To cancel it press the button again.

### DISPLAY MODE

Whenever you press **DISP.MODE**, you can enjoy the spectrum change with 6 types in the display window.

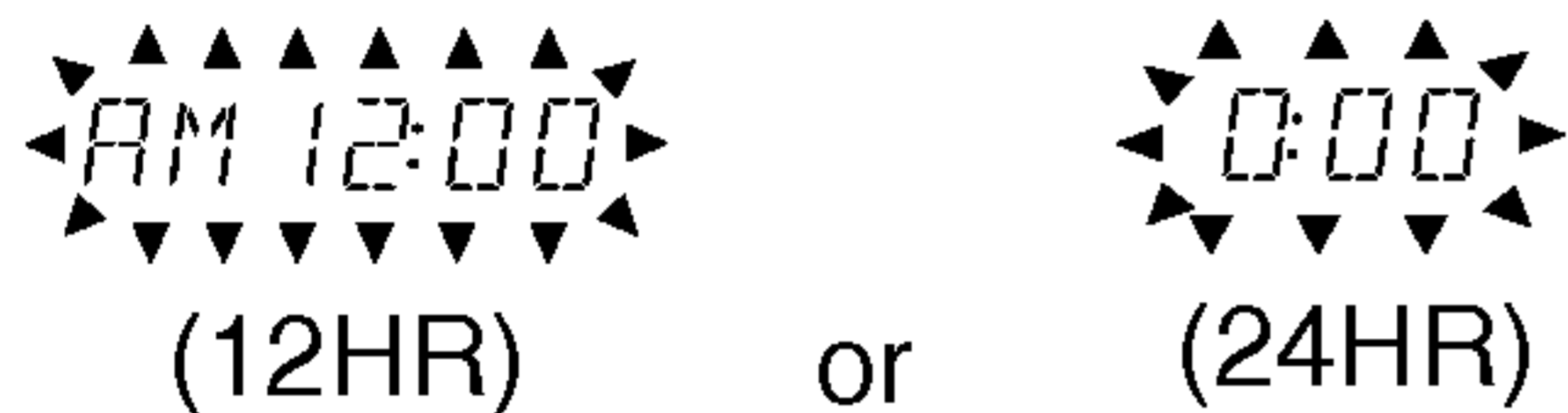


## Auto Function Selection

- If you press PLAY/PAUSE (▶/⏸) on the remote control during radio receiving, CD will be operated automatically.
- If you press PRESET (▼/▲) on the remote control during CD, radio function will be operated.

## Setting the Clock

1. Press CLOCK.  
(If the clock requires setting, press and hold CLOCK for more than 2 seconds.)
2. Select a 24 hour cycle or 12 hour cycle by pressing ◀◀ ◀◀/▶▶ ▶▶ on the front panel.



3. Press SET/CD⏸ to confirm the selected hour cycle.
4. Use ◀◀ ◀◀/▶▶ ▶▶ on the front panel to set the correct hours.
5. Press SET/CD⏸.
6. Use ◀◀ ◀◀/▶▶ ▶▶ on the front panel to set the correct minutes.
7. Press SET/CD⏸ and the correct time is shown on the display.
8. Press CLOCK at any time to display the time for about 5 seconds.

## Using the Sleep Function

When the sleep timer is used, the power is automatically turned off after the specified time has elapsed.

1. To specify the time delay before the power is turned off, press SLEEP.  
In the display window you see *SLEEP 90* for about 5 seconds. This means that the system turns off automatically after 90 minutes.

Press SLEEP until the desired time is displayed.

Note: Each time the button is pressed the time interval is reduced by 10 minutes. i.e. 80...70... etc.

2. To check the remaining time until the power is turned off, press SLEEP while the sleep function is active. The time remaining is displayed for about 5 seconds.

















### Note

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


3. To cancel the sleep timer mode, press the SLEEP button repeatedly until "SLEEP 10" appears, and then press SLEEP once again while "SLEEP 10" indicator is displayed.


## Timer


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

1. Press CLOCK to check the current time.  
(If you don't set clock, timer function doesn't work.)
2. Press  TIMER to enter the timer setting mode.  
(If you want to correct the previous memorized TIMER setting, press and hold the TIMER button more than 2 seconds.  
- The previous memorized timer on time and "⌚" indicator appears in the display window.)
3. Each function (TUNER→CD →USB) flashes in the display window in turn. Press SET/CD  when the desired function is flashing.
4. 1. When you select the TUNER function, Select the previous memorized preset number with  on the front panel or PRESET (  /  ) buttons and press SET/CD .  
- "ON TIME" indicator appears for about 0.5 seconds in the display window and then disappears.  
2. When you select the CD or USB function, - "ON TIME" indicator appears for about 0.5 seconds in the display window and then disappears.
5. Set the hour to switch on by pressing  on the front panel.
6. Press SET/CD  to confirm the hour to switch on.
7. Set the minute to switch on by pressing  on the front panel.
8. Press SET/CD  to confirm the minute to switch on.  
- "OFF TIME" indicator appears for about 0.5 seconds in the display window and then disappears.
9. Set the hour to switch off by pressing  on the front panel.
10. Press SET/CD  to confirm the hour to switch off.
11. Set the minute to switch off by pressing  on the front panel.
12. Press SET/CD .
13. Adjust the volume level by pressing  on the front panel.
14. Press SET/CD .  
"⌚" appears in the display window and the timer setting has been completed.
15. Switch the system off.  
The selected function is automatically switched on and off at the time set.

### To cancel or check the timer

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

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

To cancel the TIMER, press the  TIMER button so that "⌚" disappears in the display window.

## RDS Function - OPTIONAL

### About RDS

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

### RDS Tuning

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

### RDS Display Options

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

(FREQUENCY → PTY → RT → CT → PS)

- PTY (Programme type recognition)- The name of the programme type is shown in the Display Window.
- RT (Radio text recognition)- The name of the radio text is shown in the Display Window.
- CT (Time controlled by the channel)- Enables the unit to receive the actual time and show it in the Display Window.
- PS (Programme Service name)- The name of the channel is shown in the Display Window.

#### **N**ote

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

### Programme Search (PTY)

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

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

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

1. Press FUNC. or FUNCTION to select FM mode.
2. Press PTY on the remote control, the display will show the last PTY in use.
3. Press PTY repeatedly to select a desired PTY.
4. When the PTY is selected, press PTY SEARCH.  
The unit will go into an automatic search mode. When a station is tuned, the search will stop.

## Presetting the Radio Stations

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

1. Press FUNC. on the front panel or FUNCTION on the remote control to select the frequency (AM or FM) you want.

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

### Tuning in automatically

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

### Tuning in manually

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

3. Press PROGRAM/MEMO on the remote control.  
A preset number will flash in the display window.
4. Press PRESET (▼/▲) on the remote control to select the preset number you want.
5. Press PROGRAM/MEMO again.  
The station is stored.
6. Repeat steps 1 (or 2) to 5 to store other stations.

### To delete all the memorized stations

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

### For your reference

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

### To recall presets

Press and hold PRESET (▼/▲) on the remote control until the desired preset number appears or press it repeatedly.

## Listening to the Radio

1. Press FUNC. on the front panel or FUNCTION on the remote control to select the frequency (AM or FM) you want.  
The last received station is tuned in.
2. Press PRESET (▼/▲) on the remote control repeatedly to select the preset station you want.
  - Each time you press the button, the unit tunes in one preset station at a time.
3. Adjust the volume by rotating VOLUME CONTROL KNOB (or pressing VOLUME (▼/▲) on the remote control) repeatedly.

### To listen to non-preset radio stations

- For manual tuning, see "Tuning in manually" in step 2 on left.
- For automatic tuning, see "Tuning in automatically" in step 2 on left.

### To turn off the radio

Press POWER (⏻) to turn the unit off or select another function mode (CD/MP3, AUX, USB).

### For your reference

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

## CD Playback

### Basic Playback

1. Press FUNC. (or FUNCTION) button to select CD/MP3 function.  
If no disc is loaded then "NO DISC" is displayed.
2. Press ▲ OPEN/ CLOSE and place the disc into the disc tray.

#### Note

To load an 8cm (3 inch) disc, put it onto the inner circle of the tray.

3. Press ▲ OPEN/ CLOSE to close the disc compartment.  
Audio CD: "READING" appears in the display window, and then the total number of tracks and the playing time are displayed.  
MP3 CD: "READING" appears in the display window, and then the total number of files is displayed.
4. Press PLAY (▶) on the front panel or PLAY/ PAUSE (▶/||) on the remote control.  
In addition, you can also play an Audio CD or MP3 CD using the NUMBER buttons.

### Pause Playback

Press SET/CD|| on the front panel or PLAY/ PAUSE (▶/||) on the remote control during playback.

Press this button again it to resume play.

### Stop Playback

Press STOP(■) on the front panel or CD STOP(■) on the remote control during playback.

### Skipping a Track

- Press the ▶▶ ▶▶▶ button to go to the next track.
- When the ◀◀ ◀◀ button is pressed once midway through a track, the player returns to the start of that track. When it is pressed again, a track is skipped each time the button is pressed.

### Searching a Track

After pressing and holding ◀◀ ◀◀/▶▶ ▶▶▶ button on the remote control during playback, then release at the point you want.

#### Note

This function is not available to play a MP3 file.

### Program Play

You can arrange the order of the tracks on the discs and create your own program. The program can contain up to 20 tracks.

1. Press PROGRAM/MEMO on the remote control on the stop mode.
2. Press ◀◀ ◀◀/▶▶ ▶▶▶ to select the track.  
EX) "04 P-01" will be shown in the display.  
| Program number  
| Track number
3. Press PROGRAM/MEMO on the remote control.
4. Repeat 1~3.
5. Press PLAY (▶) on the front panel or PLAY/ PAUSE (▶/||) on the remote control.  
"PROG." appears in the display window.

### To check program contents

Press PROGRAM/MEMO on the remote control on the stop mode.

- A Track and program number will be displayed.

### To clear program contents

Press PROGRAM/MEMO on the remote control on the stop mode. And then press CD STOP(■) on the remote control.

### To add program contents

1. Press PROGRAM/MEMO on the remote control repeatedly on the program stop mode until Track Number blinks.
2. Repeat 2~4 on above.

### To modify program contents

1. Press PROGRAM/MEMO on the remote control to display program number you want to modify.
2. Repeat 2~4 on above.

## Repeat

### To play one track repeatedly

Press REPEAT once during playback.

- "REPEAT" appears in the display window.

### To play all tracks repeatedly

Press REPEAT again during playback.

- "REPEAT ALL" appears in the display window.

### To cancel repeat play

Press REPEAT once more during playback.

- Repeat indicator disappears.

### Program repeat play

- Press REPEAT once during program play.
  - "REPEAT" appears on the display window.  
(One track repeat)
- Press REPEAT again during program play.
  - "REPEAT ALL" appears on the display window.  
(All program repeat)

### To check MP3 file information

Press the MP3 Info button during MP3 file playback.

- The information (Title, Artist or Album) of the MP3 file will be shown in the display window.
- If there is no the information of the MP3 file, "NO ID3 TAG" indicator will be shown in the display window.

#### Note

This unit can play a CD-R or CD-RW that contains audio titles or MP3 files.

## About MP3/WMA

### MP3

- An MP3 file is audio data compressed by using the MPEG1 audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
- The unit can not read an MP3 file that has not ".mp3" file extension.

### WMA

- An WMA file is a Microsoft audio compression technology.
- WMA(Windows Media Audio) offers double the audio compression of the MP3 format.

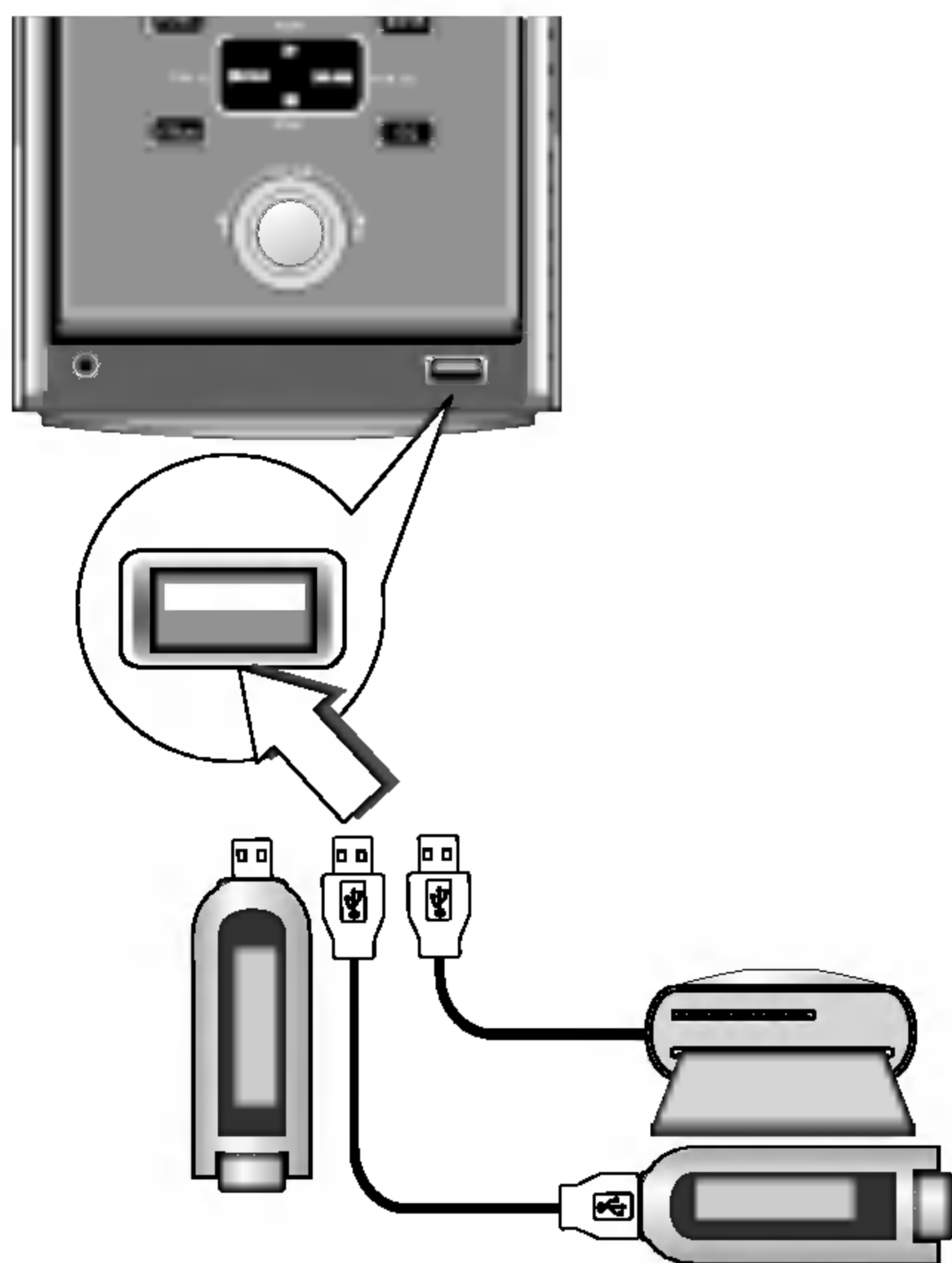
### MP3 Disc compatibility with this unit is limited as follows:

1. Sampling Frequency / 8 - 48kHz
2. Bit rate / 8 - 320kbps
3. CD-R physical format should be "ISO 9660"
4. If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
5. File names should be named using 30 letters or less and must incorporate ".mp3" extension  
e.g. "\*\*\*\*\*.MP3".
6. Even if the total number of files on the disc have more than 1000, it will only be shown up to 999.

### About MULTI SESSION

- This function recognizes the multi session disc according to a disc of CD-ROM type.
  - ex) If there are MP3 files in the first session, the MP3 file in the first session is only played. If there are only MP3 files in the whole session, all of the MP3 files in the session are played. If there is Audio CD in the first session, only the Audio CD in the first session is played.

## USB Function



### Basic Playback

1. Plug the USB device into the USB connector of your unit.
2. Press the USB button to enter the USB mode. "CHECKING" appears in the display window, and then the total number of files is displayed.
3. Press PLAY (▶) on the front panel or PLAY/PAUSE (▶||) on the remote control. In addition, you can also play using the NUMBER buttons.

#### Note

Besides Basic Playback, if you want to operate other functions, see the CD Playback section.

### Moving to other cards

When you use a MP3 player or memory card, Press D.SKIP on the remote control during playing or stopping.

#### Note

- Don't remove a MP3 player or memory card while playing the USB.
- Don't add or remove the memory card when playing the USB by using a multi card reader.
- Numbers of file available are maximum 999 EA.
- Be sure to save file in the memory card after formatting.
- No cladding hard disc is supported.
- The MP3 player requiring installation of a drive is not supported.
- This unit can play USB device that contains MP3/WMA files.
- The MP3 file name and ID3 TAG should be named using English.
- This player can not format memory card.
- This player can not use USB HUB.
- Recommended Memory Card
  - Compact Flash Card (CFC), Micro Drive (MD), Smart Media Card (SMC), Memory Stick (MS), Secure Digital Card (SD), Multi Media Card (MMC), Memory Stick Pro (MS-Pro)
  - Compatible with : FAT12,16,32
  - Only use the memory cards recommended.

## 4. Maintenance and Service

### Shipping the Unit

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

### Cleaning the Unit

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

Never use strong solvents, such as alcohol, benzene, or paint thinner. These might damage the surface of the unit.

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

### Service

Use the table on the next page to solve any problems before calling for service.



## Troubleshooting

| Symptom                                    | Cause  | Correction  |
|--|--|---|
| No power.                                  | <ul style="list-style-type: none"> <li>The power cord is disconnected.</li> </ul>                                      | <ul style="list-style-type: none"> <li>Plug the power cord into the wall outlet securely.</li> </ul>          |
| No sound.                                  | <ul style="list-style-type: none"> <li>The power of the external source equipment is switched off.</li> </ul>          | <ul style="list-style-type: none"> <li>Switch on the external source equipment.</li> </ul>                    |
| The unit does not start playback.          | <ul style="list-style-type: none"> <li>No disc is inserted.</li> </ul>   | <ul style="list-style-type: none"> <li>Insert a disc.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>An unplayable disc is inserted.</li> </ul>                                      | <ul style="list-style-type: none"> <li>Insert a playable disc.</li> </ul>                                     |
|  | <ul style="list-style-type: none"> <li>The disc is placed upside down.</li> </ul>                                      | <ul style="list-style-type: none"> <li>Place the disc with the playback side down.</li> </ul>                 |
|  | <ul style="list-style-type: none"> <li>The disc is not placed within the guide.</li> </ul>                             | <ul style="list-style-type: none"> <li>Place the disc on the disc tray correctly inside the guide.</li> </ul> |
|  | <ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>   | <ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>   |
| The remote control does not work properly. | <ul style="list-style-type: none"> <li>The remote control is not pointed at the remote sensor of the unit.</li> </ul>  | <ul style="list-style-type: none"> <li>Point the remote control at the remote sensor of the unit.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The remote control is too far from the unit.</li> </ul>                         | <ul style="list-style-type: none"> <li>Operate the remote control within about 23 ft (7 m).</li> </ul>        |
|  | <ul style="list-style-type: none"> <li>There is an obstacle in the path of the remote control and the unit.</li> </ul> | <ul style="list-style-type: none"> <li>Remove the obstacle.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The batteries in the remote control are exhausted.</li> </ul>                   | <ul style="list-style-type: none"> <li>Replace the batteries with new ones.</li> </ul>                        |

# 5.Reference

## Specifications

|            |                             |                                      |   |
|------------|-----------------------------|--------------------------------------|---|
| [General]  | Power supply                | Refer to the back panel of the unit. |   |
|            | Power consumption           | 50 W                                 |   |
|            | Mass                        | 3.7 kg                               |   |
|            | External dimensions (WxHxD) | 187 X 255 X 257 mm                   |   |
| [CD]       | Frequency response          | 40 - 18000 Hz                        |   |
|            | Signal-to-noise ratio       | 70 dB                                |   |
|            | Dynamic range               | 70 dB                                |   |
| [Tuner]    | FM                          | Tuning Range                         | 87.5 - 108.0 MHz or 65 - 74 MHz, 87.5 - 108.0 MHz |
|            |                             | Intermediate Frequency               | 10.7 MHz  |
|            |                             | Signal to Noise Ratio                | 60/55 dB  |
|            |                             | Frequency Response                   | 60 - 10000 Hz                                     |
|            | AM (MW)                     | Tuning Range                         | 522 - 1620 kHz or 520 - 1720 kHz                  |
|            |                             | Intermediate Frequency               | 450 kHz   |
|            |                             | Signal to Noise Ratio                | 34 dB   |
|            |                             | Frequency Response                   | 120 - 2000 Hz                                     |
| [Amp]      | Output Power                | 80 W + 80 W                          |   |
|            | T.H.D                       | 0.5 %                                |   |
|            | Frequency Response          | 42 - 20000 Hz                        |   |
|            | Signal-to-noise ratio       | 75 dB                                |   |
| [Speakers] | Type                        | Bass Reflex 3Way 4Speaker            |   |
|            | Impedance                   | 6 $\Omega$                           |   |
|            | Frequency Response          | 60 - 20000 Hz                        |   |
|            | Sound Pressure Level        | 82 dB/W (1m)                         |   |
|            | Rated Input Power           | 80 W                                 |   |
|            | Max. Input Power            | 160 W                                |   |
|            | Net Dimensions (WxHxD)      | 162x320x258 mm                       |   |
|            | Net Weight (1EA)            | 4.0 kg                               |   |

Designs and specifications are subject to change without notice.



P/NO : 3834RH0091A