



# MINI HI-FI SYSTEM

## OWNER'S MANUAL

**MODEL: LM-U5050**

(LM-U5050A/D/X, LMS-U5050, LMS-U5050S, LMS-U5050W)

**LM-U4050**

(LM-U4050A/D/X, LMS-U4050, LMS-U4050W)

**LM-U2350**

(LM-U2350A/D/X, LMS-U2350)



Read the manual before operating your set.

Subject to change without notice for



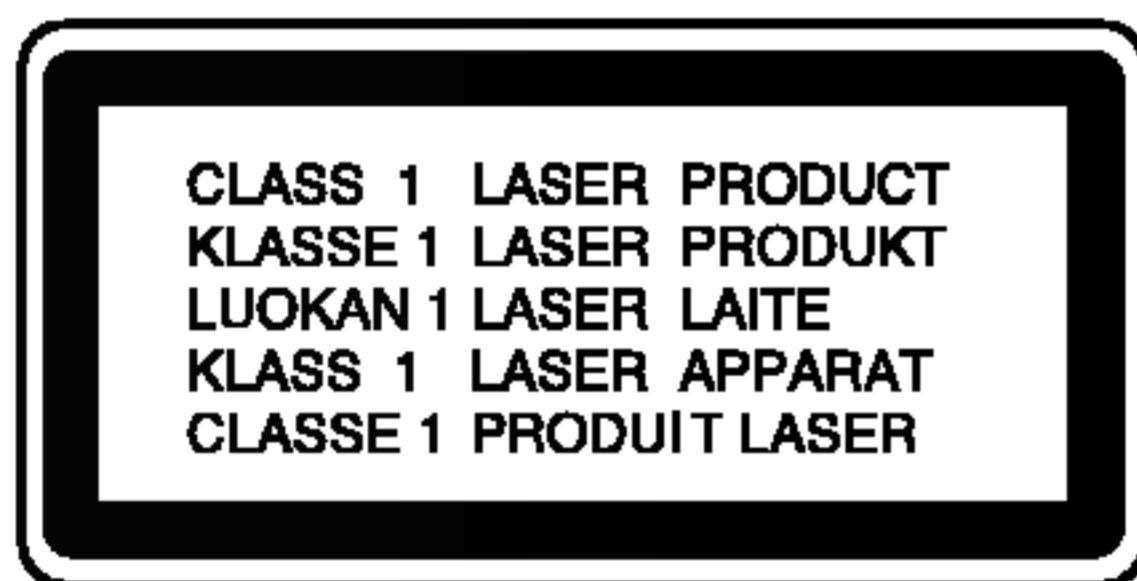
**CAUTION**  
**RISK OF ELECTRIC SHOCK**  
**DO NOT OPEN**



**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.**



**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).

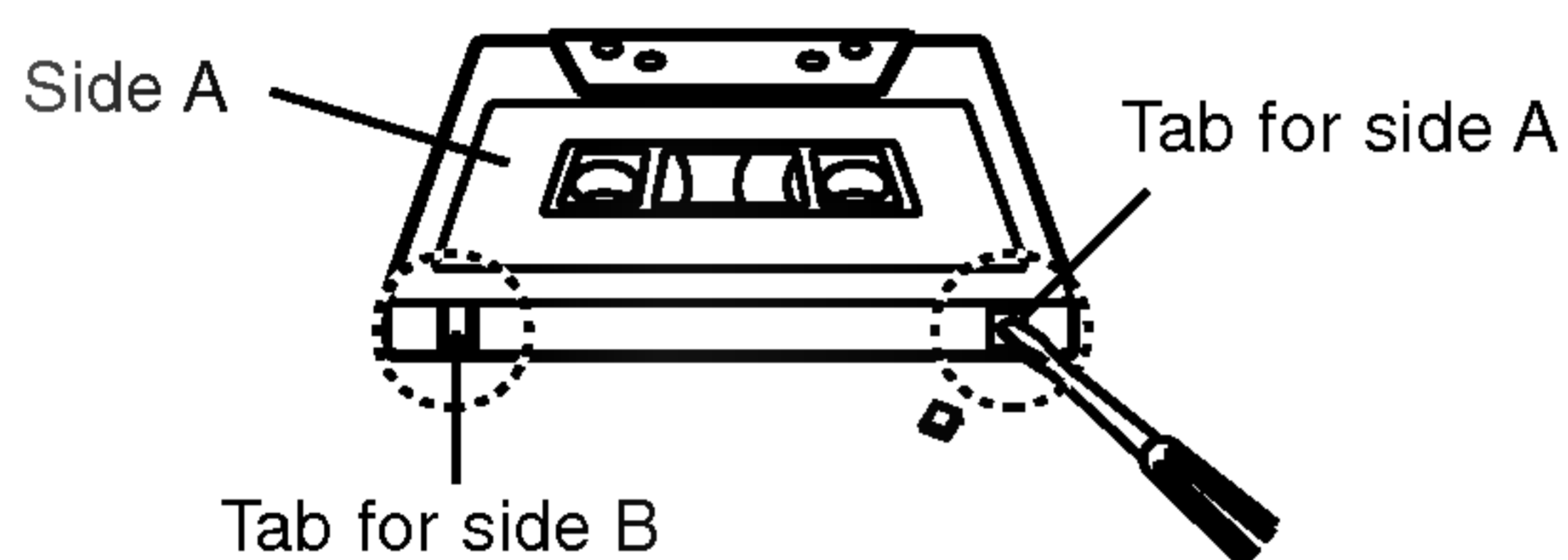
## Symbols Used in this Manual

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

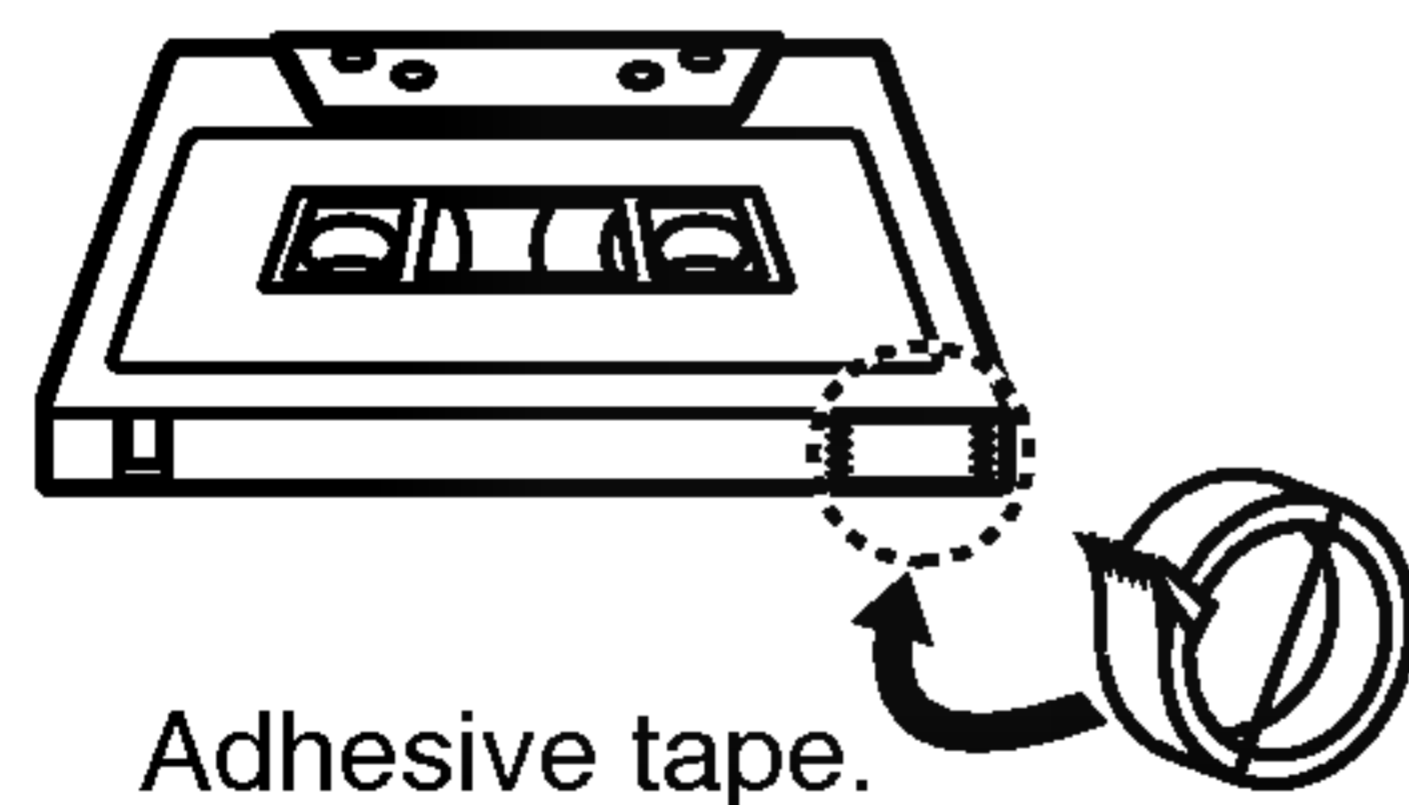
## Notes on Tapes

### Preventing record

Removing the tab(s) of the cassette (with a small screwdriver) will prevent accidental erasure.



To record again, cover the hole of the tab with adhesive tape.



## 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.

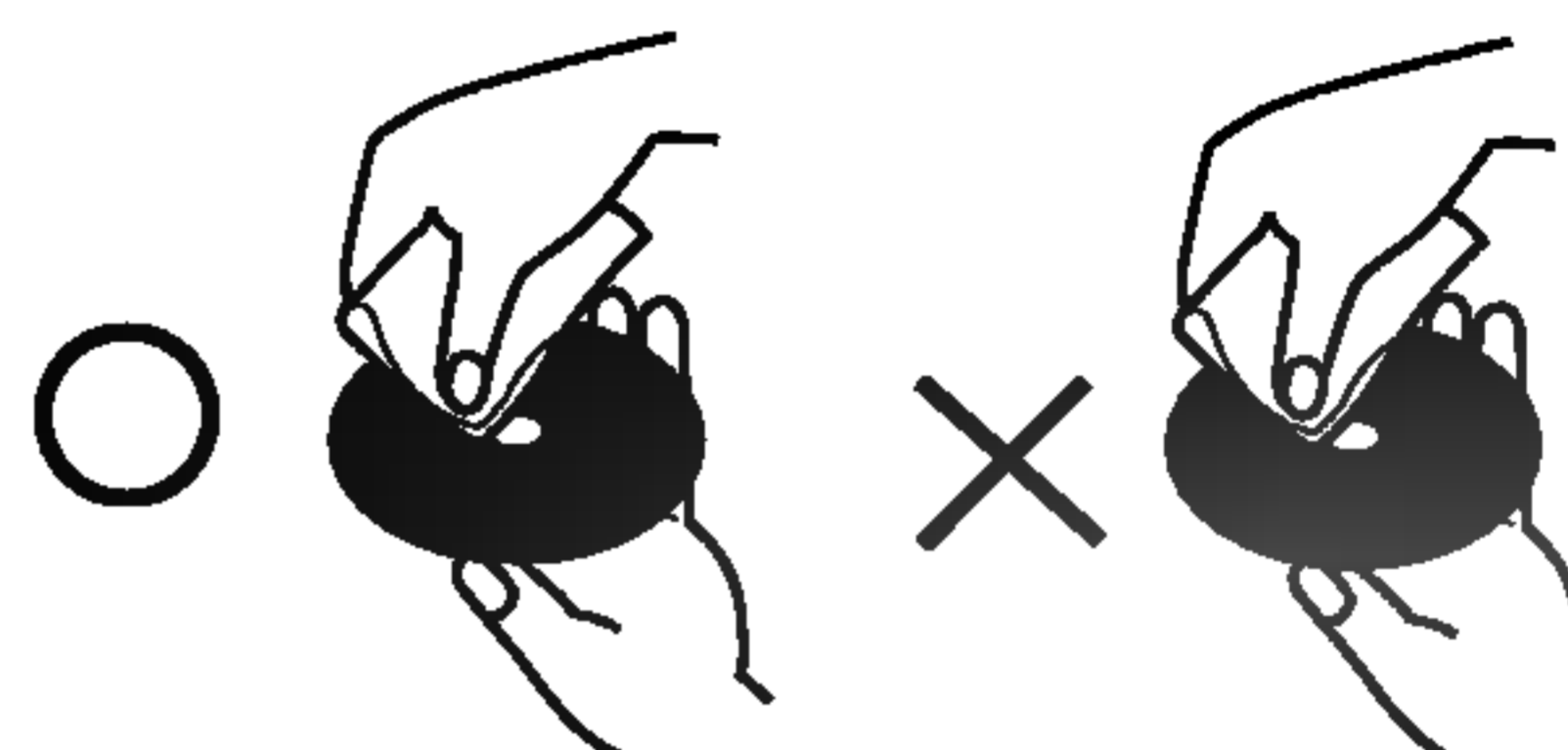


### Storing discs

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.

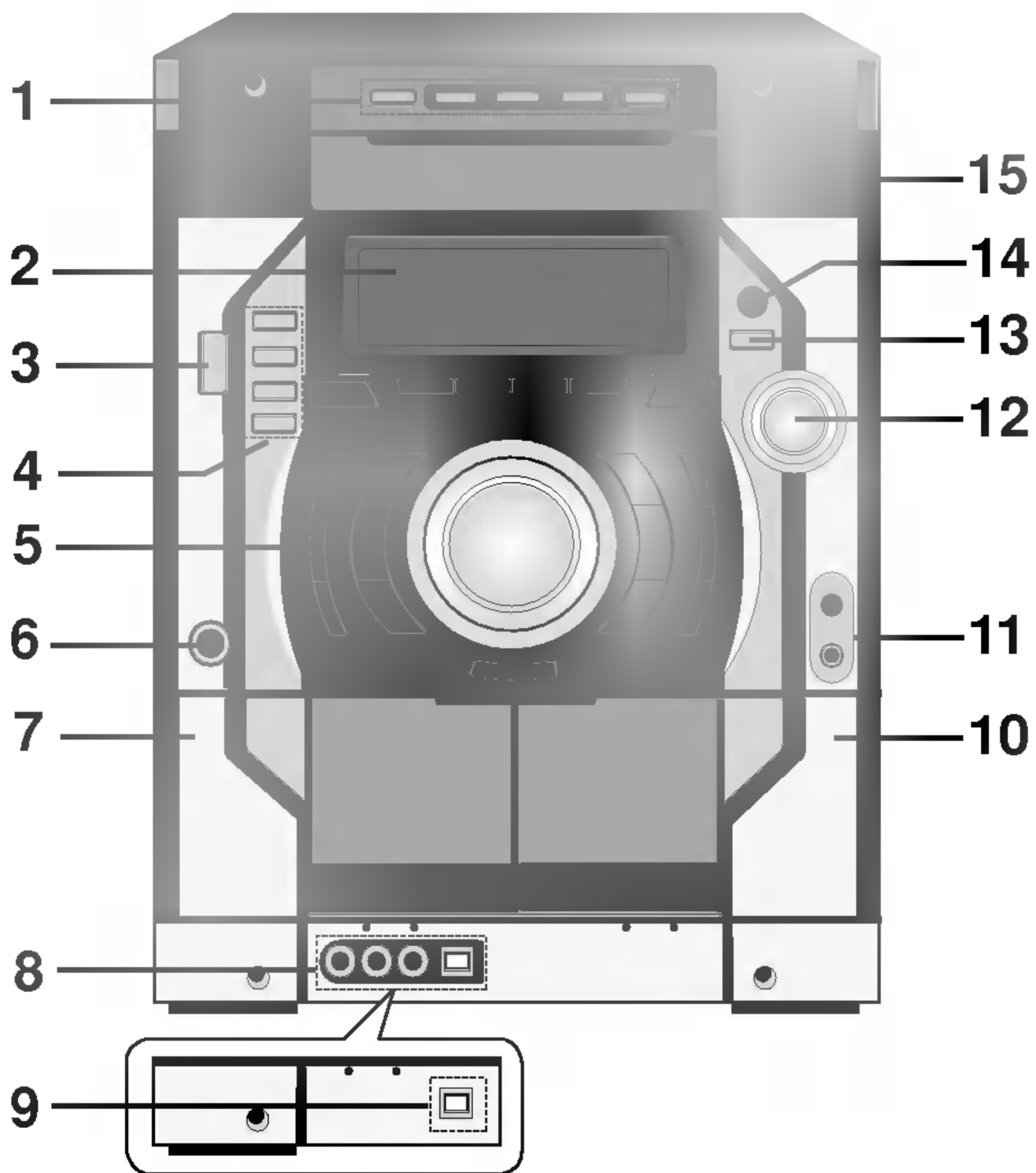
### Cleaning discs

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.

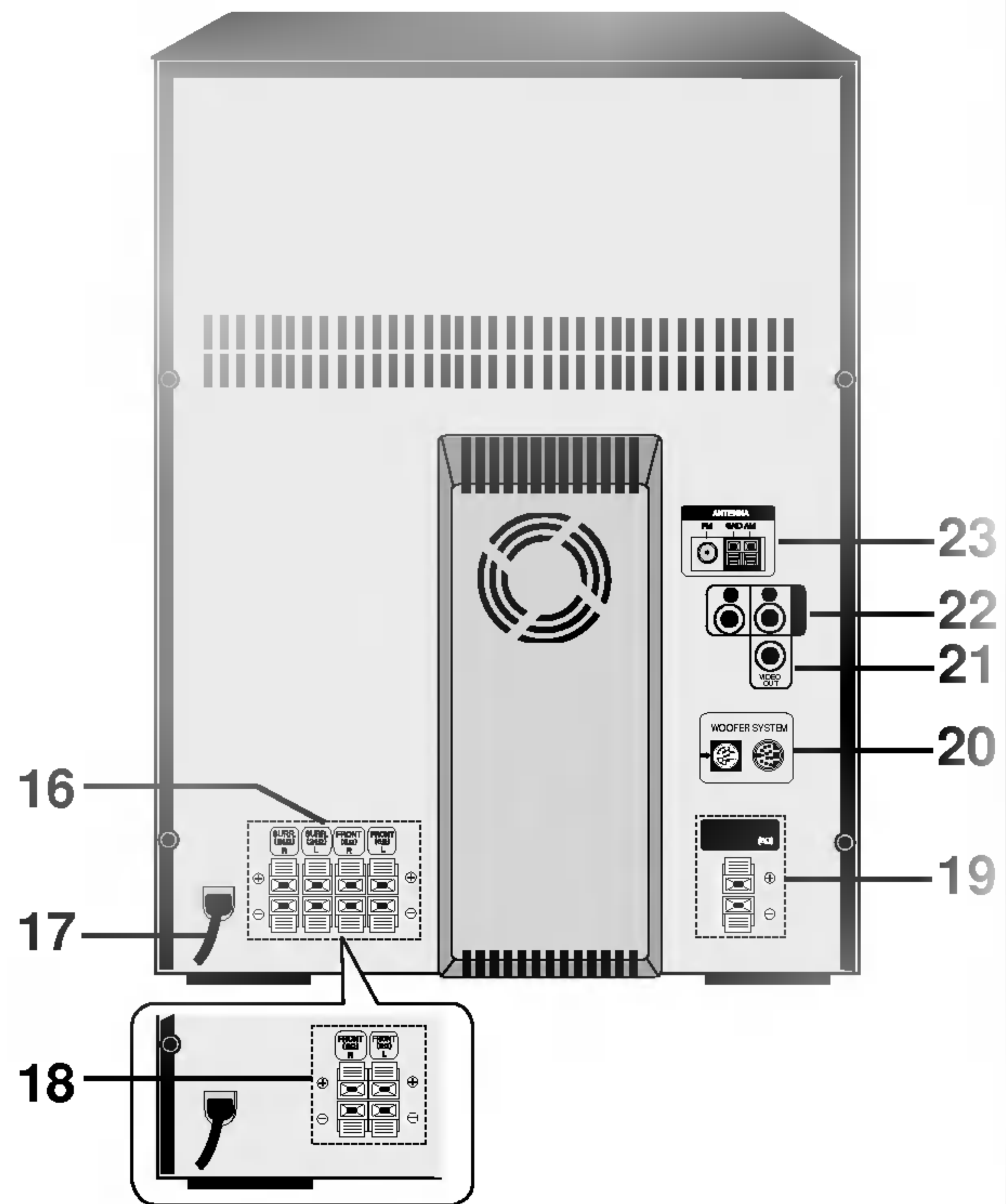


Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

## Front / Rear Panel

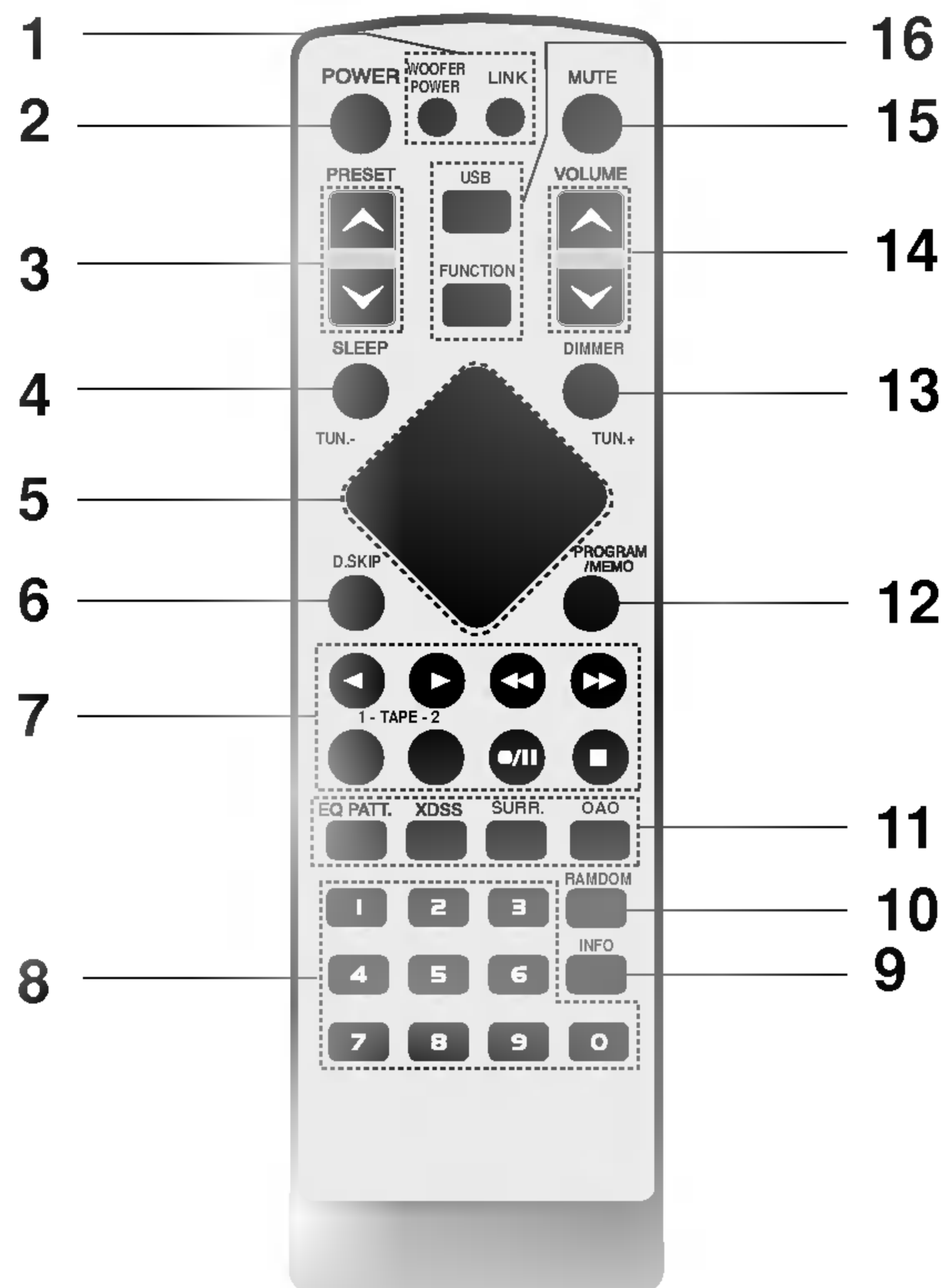


1.
  - DISC SKIP button
  - DISC DIRECT PLAY buttons (DISC1, DISC2, DISC3)
  - ▲ OPEN/CLOSE button
2. DISPLAY WINDOW
3. POWER (⏻ STANDBY/ON) button
4. FUNCTION SELECT buttons  
[TUNER, TAPE, CD, AUX, A/V (LM-U5050 model only)]
5.
  - XDSS button
  - PLAY MODE/ DEMO button
  - MODE/ RIF/ NOR-DUBB. button
  - CD SYNC./ HI-DUBB. button
  - PROGRAM/MEMORY button
  - OAO button
  - CLOCK button
  - ⌚ TIMER button
  - RECORD/ RECORD PAUSE (● REC/PAUSE) button
  - AUTO TUNING DOWN/UP button
  - REWIND/FAST FORWARD (◀◀/▶▶) button
  - PRESET DOWN/UP button
  - BACKWARD PLAY (◀) button : OPTIONAL
  - FORWARD PLAY (▶) button
  - STOP (■)/CLEAR button
  - SET/ CD//AM-NOISE/RDS(OPTIONAL) button
  - VOLUME CONTROL KNOB
  - MP3 OPTIMIZER button
  - EQ/ USER EQ/ SURROUND button



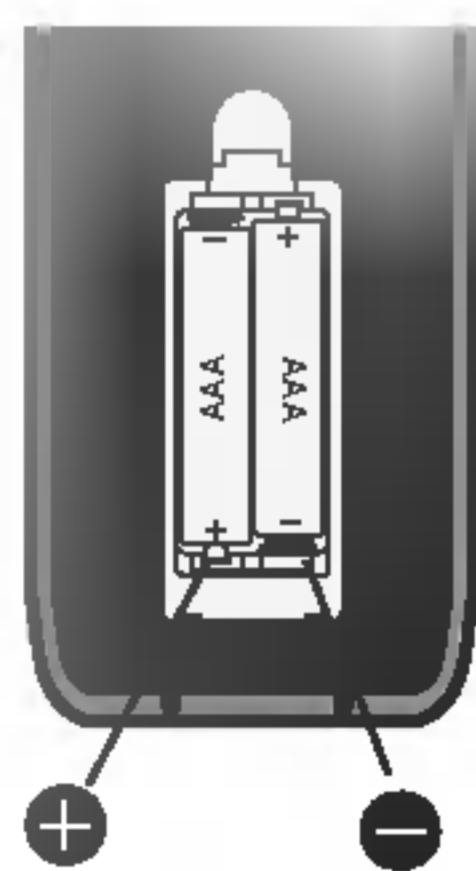
6. HEADPHONE SOCKET (🎧 PHONES):  $\phi$  6.3mm
7. ▲ PUSH EJECT position - TAPE 1
8. LM-U5050 model only
  - GAME LINK INPUT connector (VIDEO IN, AUDIO L/R)
  - USB connector (🔌)
9. LM-U4050/U2350 model only
  - USB connector (🔌)
10. ▲ PUSH EJECT position - TAPE 2
11.
  - MIC SOCKET (MIC):  $\phi$  6.3 mm - OPTIONAL
  - MIC VOLUME KNOB (MIC VOL.) - OPTIONAL
12. MULTI JOG SHULLTE
  - MANUAL TUNING
  - CD SKIP (◀◀/▶▶)
  - CLOCK ADJUST
13. USB button
14. REMOTE SENSOR
15. CD DOOR
16. SPEAKER TERMINAL (LM-U5050 model only)
17. POWER CORD
18. SPEAKER TERMINAL (LM-U4050/U2350 model only)
19. SUBWOOFER TERMINAL (LM-U5050/U4050 model only)
20. WOOFER SYSTEM connector (LM-U5050/U4050 model only)
21. VIDEO OUT connector (LM-U5050 model only)
22. AUXILIARY INPUT connector (AUX IN L/R)
23. ANTENNA TERMINAL

## Remote Control



1. • WOOFER POWER button (LM-U5050/U4050 model only)  
• LINK button (LM-U5050/U4050 model only)
2. POWER button
3. PRESET (▼/▲) buttons
4. SLEEP button
5. • PLAY/PAUSE (▶/||) button  
• CD STOP(■) button  
• CD SKIP/SEARCH (◀◀/▶▶) button
6. TUN.(-/+ ) buttons
7. REPEAT button
6. D.SKIP button
7. TAPE FUNCTION buttons  
• BACKWARD PLAY (◀) button : OPTIONAL  
• FORWARD PLAY (▶) button  
• FAST FORWARD PLAY (▶▶) button  
• FAST REWIND PLAY (◀◀) button  
• TAPE-1/2 SELECT buttons  
• RECORD/ RECORD PAUSE (●/||) button  
• TAPE STOP button (■)
8. NUMBER buttons
9. MP3 file information display (INFO) button
10. RANDOM button
11. • EQUALIZER PATTERN (EQ PATT.) button  
• XDSS button  
• SURROUND (SURR.) button  
• OAO button
12. PROGRAM/MEMO button
13. DIMMER button
14. VOLUME (▼/▲) button
15. MUTE 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

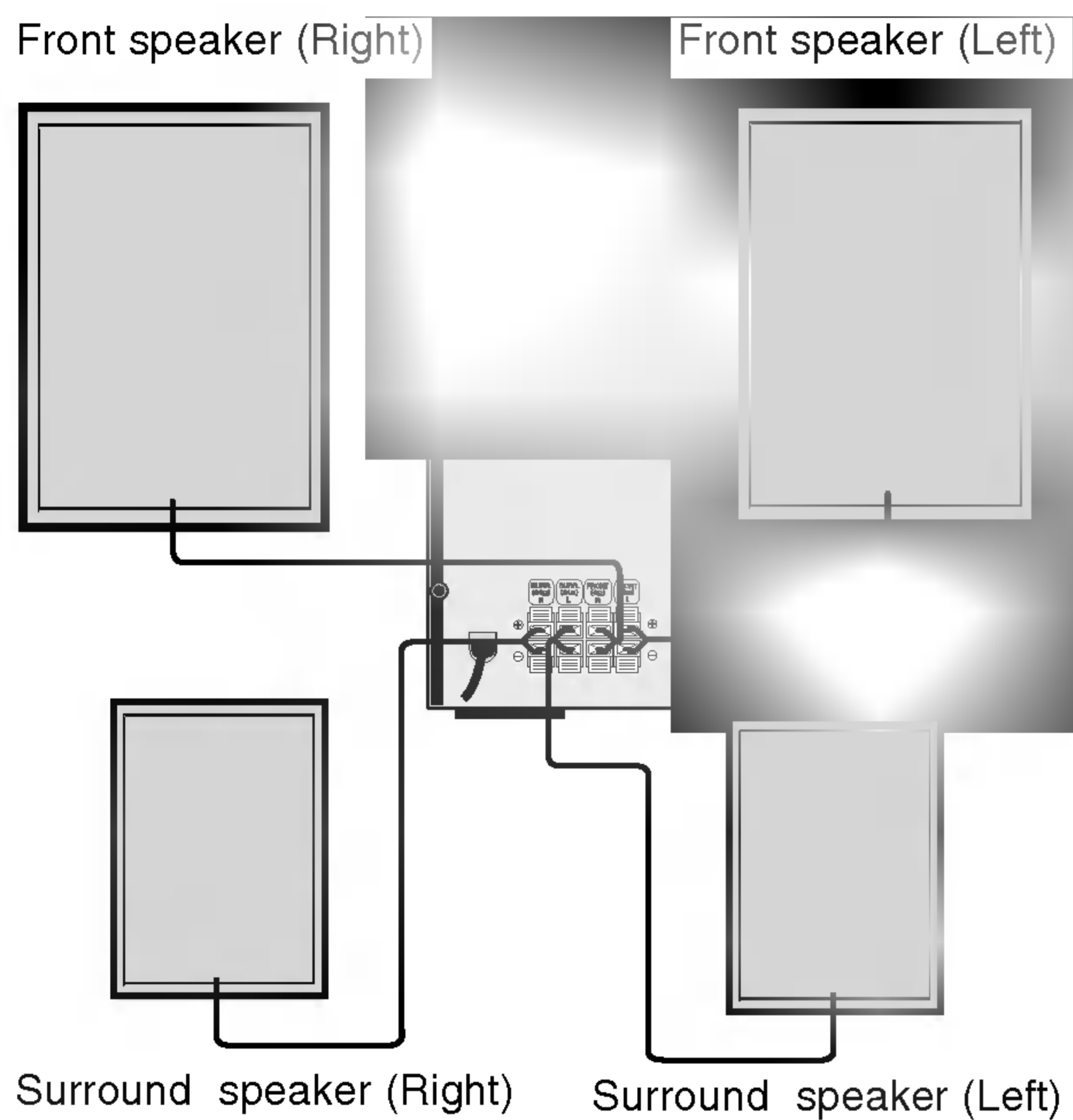
## Speaker System Connections

### Connection of the front speakers

Connect the speaker cords to the front speaker terminals.

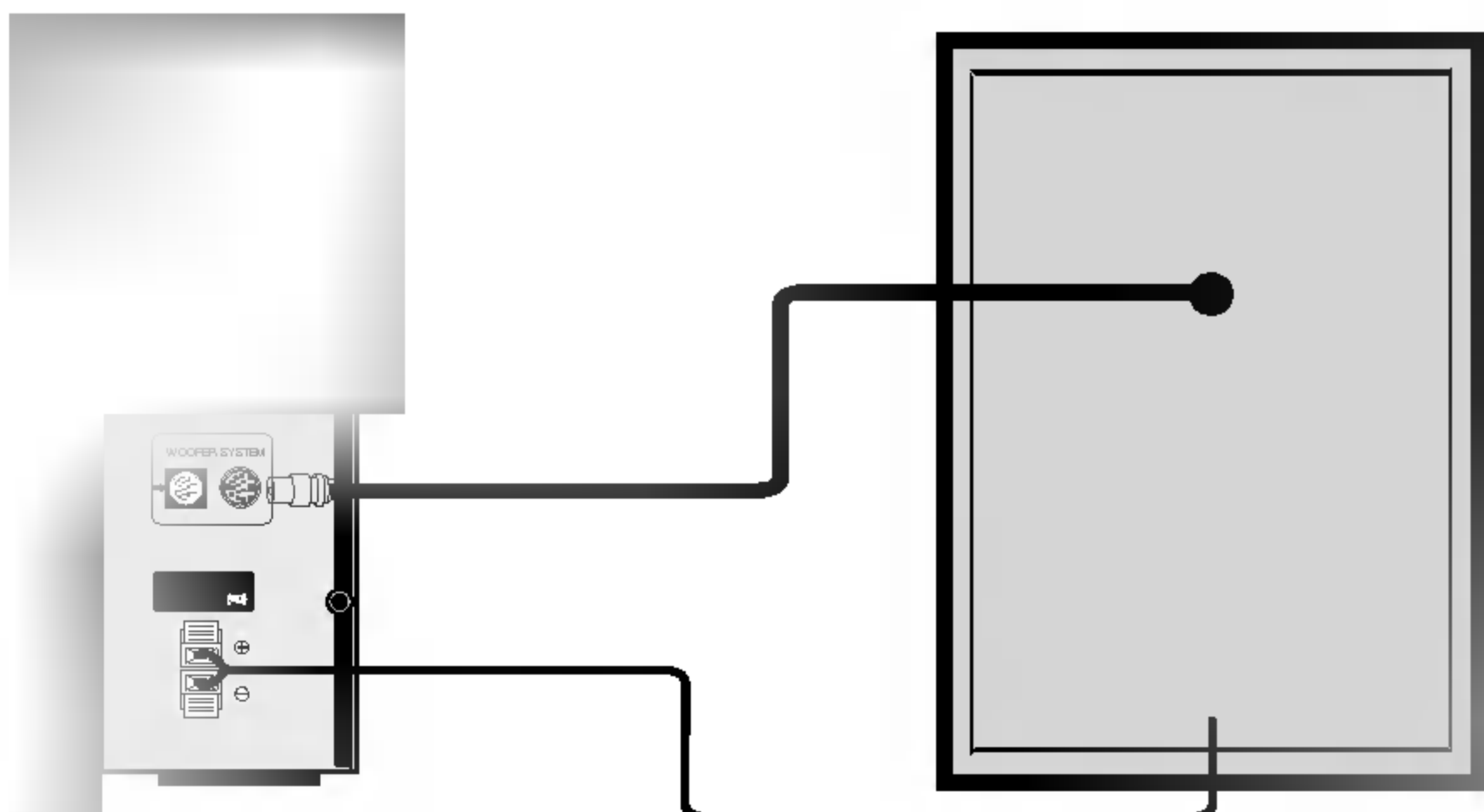
### Connection of the surround speakers (LM-U5050 model only)

Connect the speaker cords to the surround speaker terminals.



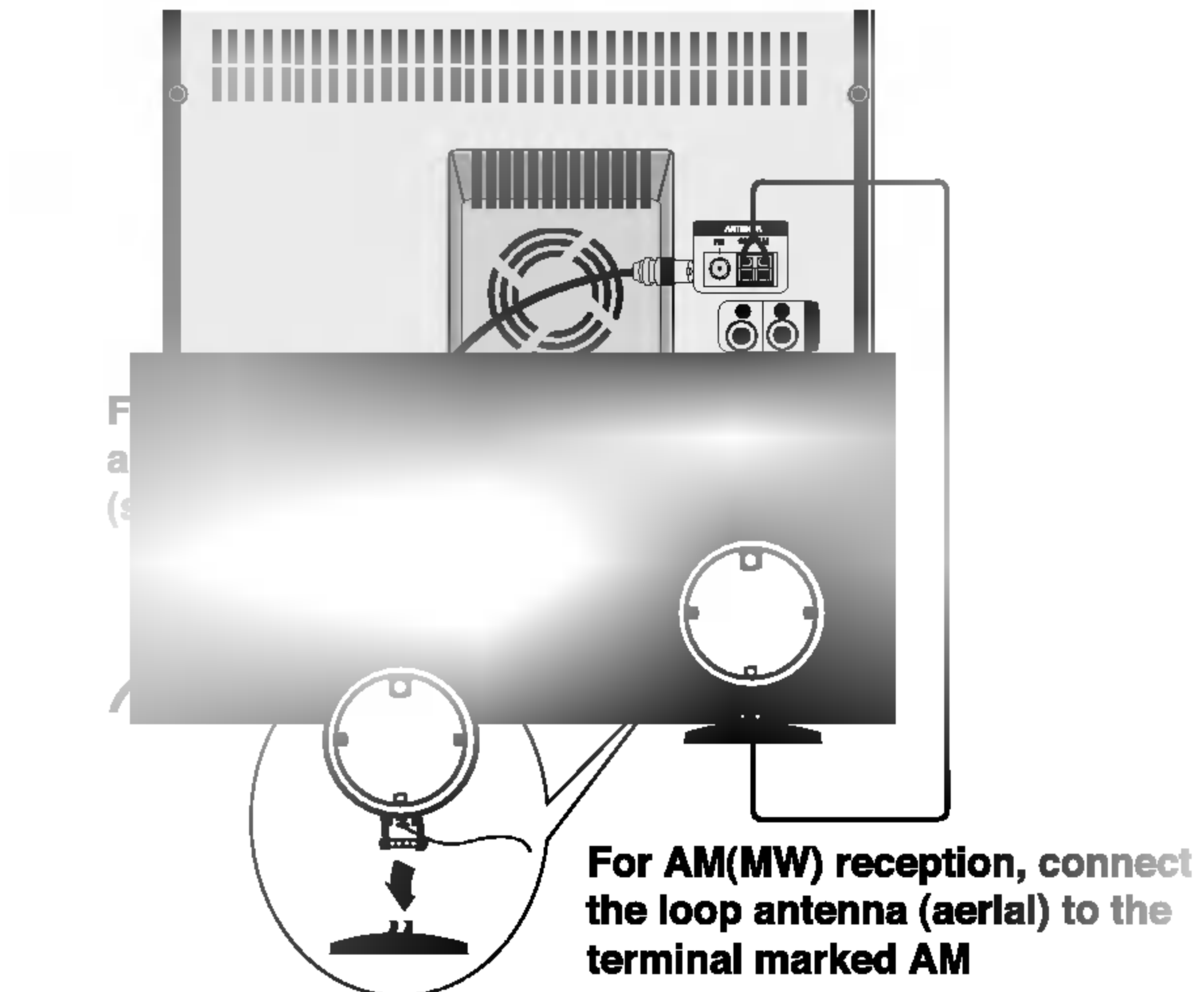
### Connection of the subwoofer (LM-U5050/U4050 model only)

Connect the subwoofer cords to the subwoofer terminals and the woofer system cord to the woofer system connector.



## Antenna (Aerial) Connections

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

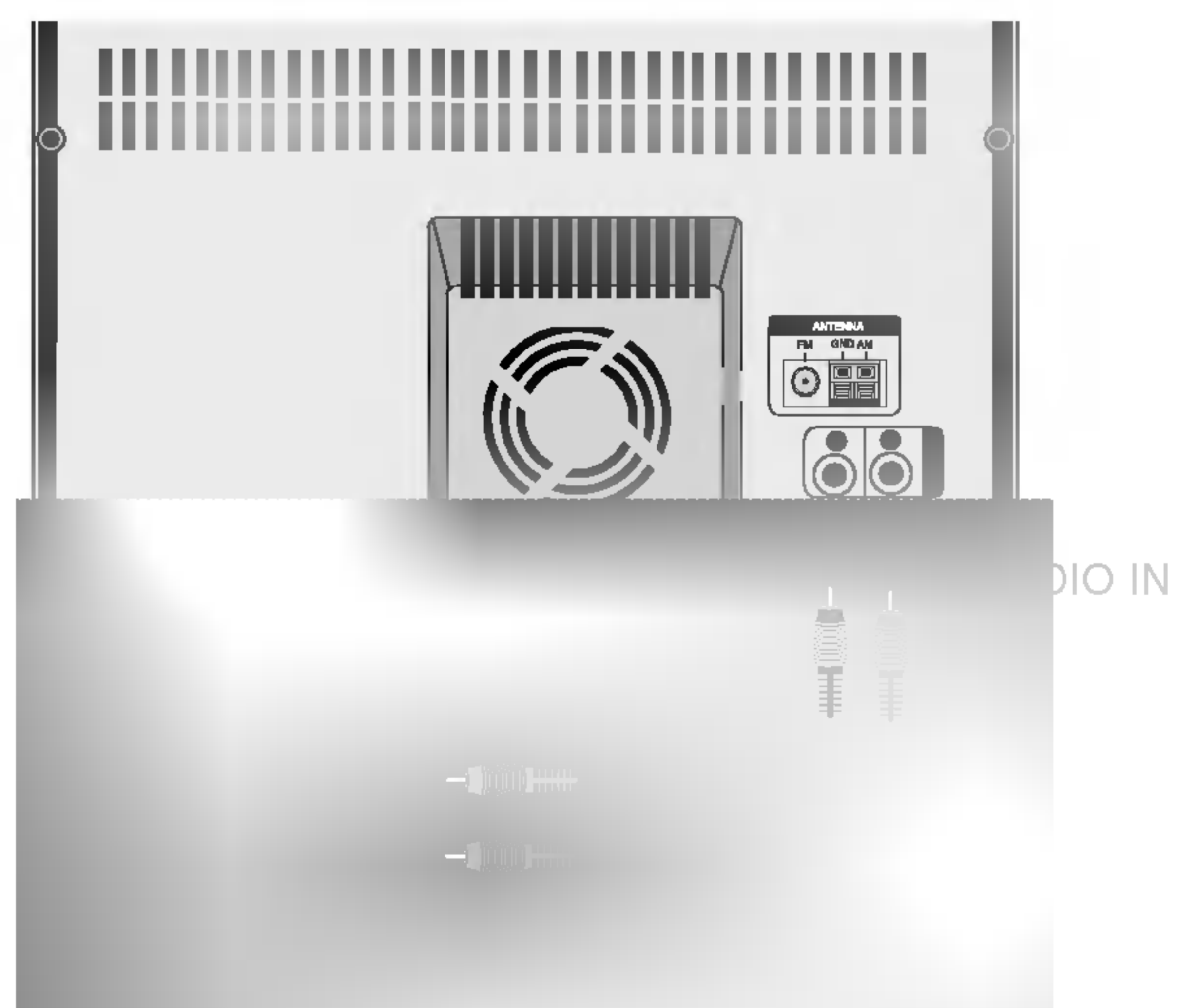


### Notes

- 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 Equipment Connections

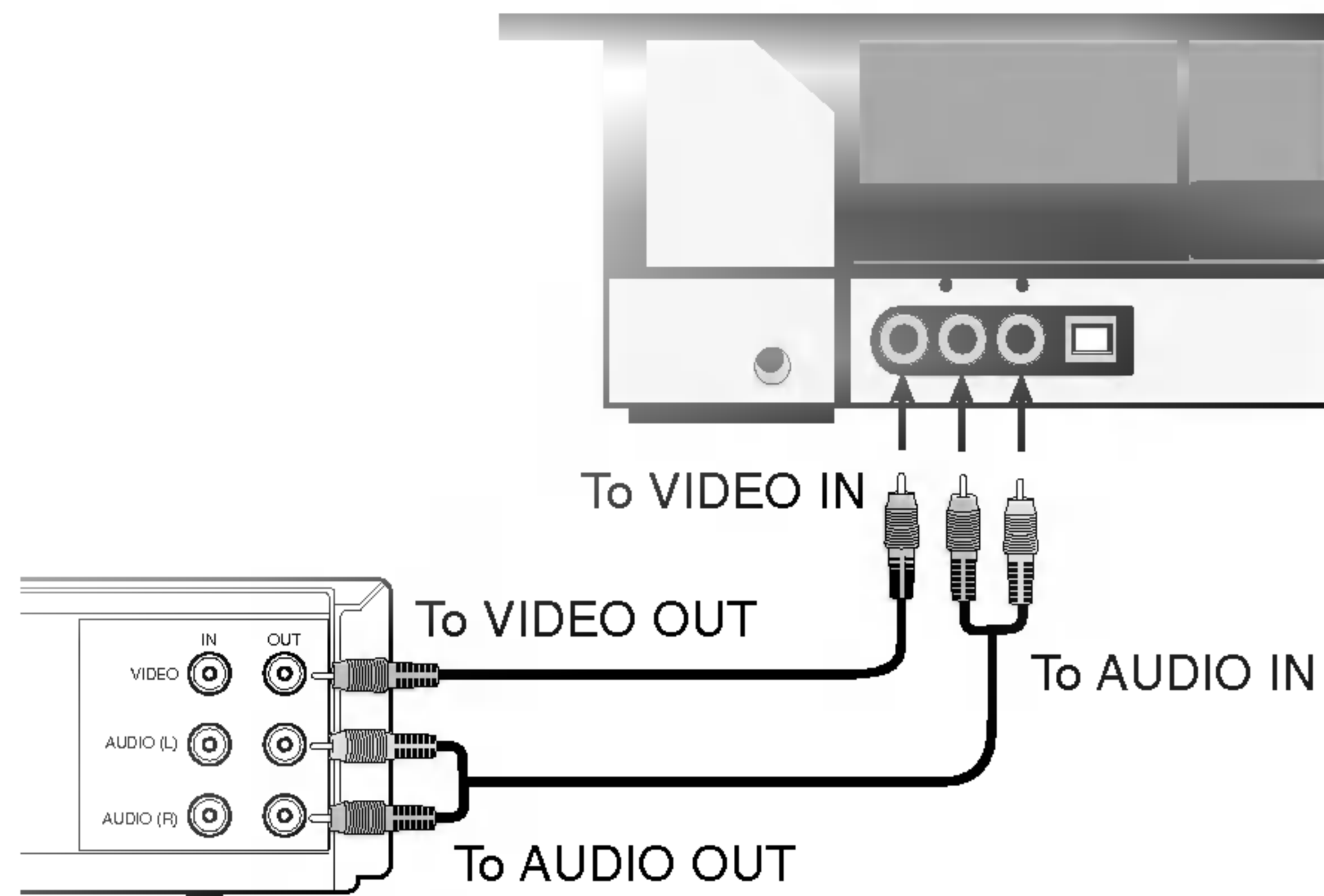
1. Connect the audio output connector of auxiliary device to the AUX connector.
2. Press AUX button on the front panel or FUNCTION button on the remote control to select AUX function. "AUX" will be shown in the display window.



## Optional Equipment Connections

### Connection of the TV/Monitor, Video Game or DVD, etc (LM-U5050 model only)

1. Connect the video/audio output connector of auxiliary device to the GAME LINK INPUT (VIDEO IN, AUDIO L/R) connector.



Video Game or DVD, etc

2. Connect the video input connector of TV/Monitor to the VIDEO OUT connector.

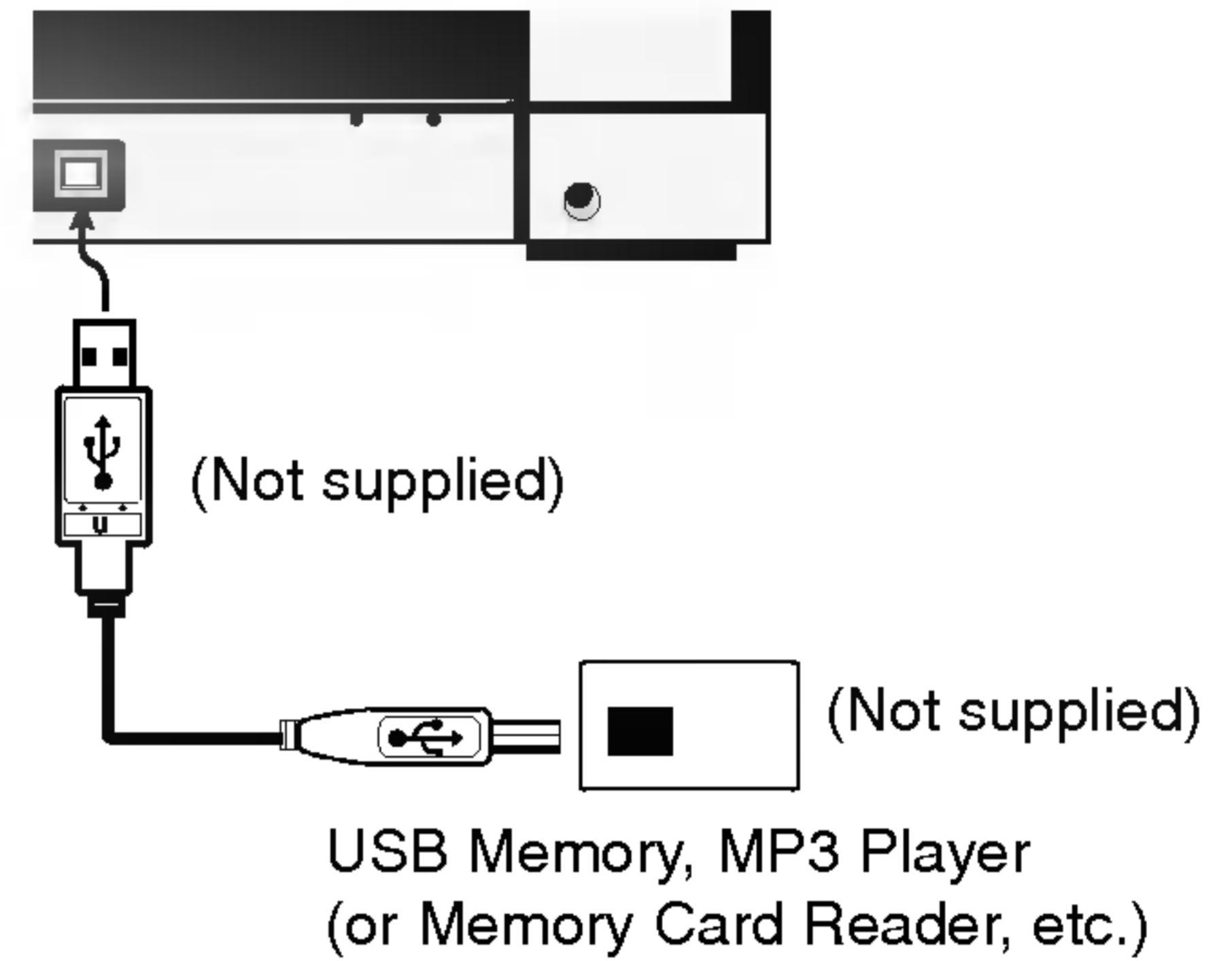


Rear of TV

3. Press **AV** button on the front panel or **FUNCTION** button on the remote control to select **AV** (Audio/Video) function.  
“AV” will be shown in the display window.

### Connection of the USB

1. Connect the USB port of USB memory (or MP3 player, etc) to the USB connector.
2. Press USB button on the front panel or on the remote control to select USB function.  
“USB” will be shown in the display window.





# 3 Operation

## Audio Adjustment

### Volume Adjustment

- Turn **VOLUME CONTROL KNOB** clockwise to increase the sound level, or counterclockwise to decrease it.
- Using the remote control, press **VOLUME (^)** to increase the sound level, or use **VOLUME (v)** to decrease it on the remote control.

### 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.

### Headphone Jack

Connect a stereo headphone plug (ø6.3mm) into the headphone jack.  
The speakers are automatically disconnected when you plug in the headphones (not supplied).

### EQUALIZER Effect

You can choose 12 fixed sound impressions and adjust the **BASS**, **MIDDLE** and **TREBLE**.

- 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.**

LM-U5050 model only

FLAT → POP → CLASSIC → ROCK → DRAMA → JAZZ → SALSA → MUSICAL → SAMBA → ADVENTURE → PUMP → EXTREME → FLAT...

LM-U4050/U2350 model only

FLAT → POP → CLASSIC → ROCK → DRAMA → JAZZ → SALSA → MUSICAL → SAMBA → FLAT...

- You can select a mode by using **USER EQ** button on the front panel.
  1. Press the **USER EQ** button for more than 1 second. “**BASS 0**” will be appeared in the display window.
  2. Turn the **MULTI JOG SHUTTLE** clockwise or counterclockwise to select the setting you want.
  3. Press the **USER EQ** button.
  4. Adjust the **MIDDLE** and **TREBLE** as shown above.
  5. To cancel the **USER MODE**, press the **USER EQ** button until “**USER MODE OFF**” appears.

### 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.

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

Press **OAO** to reinforce the bass sound. The “**OAO ON**” or “**OAO OFF**” indicator lights in the display window. To cancel, press **OAO** 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 OPTIMIZER** the setting changes in the following order.

MP3-OPT ON → MP3-OPT OFF

### SURROUND Effect

You can select a desired surround mode by using **SURROUND** button on the front panel or **SURR.** button on the remote control.

When a surround mode passes by with the left side from the right, press **SURROUND** or **SURR.**

SURROUND OFF → CINEMA → EALA → TUNNEL → HALL → THEATER → VOCAL → CHURCH → DISCO → SURROUND 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.

### DEMO

Press **DEMO** in power off state to demonstrate the function in the display.

To cancel it, press **POWER** or **DEMO** again. During demonstration in power-on status you can cancel it by using the other buttons.

### Selecting the sound system (LM-U5050/U4050 model only)

You can enjoy different sounds by selecting the sound mode you want.

Press **LINK** button on the remote control repeatedly (or turn **MODE SELECT** on the subwoofer) to select the sound mode.

LINK ON → SURROUND 1 → SURROUND 2  
↑

### Using the subwoofer (LM-U5050/U4050 model only)

You can use the sound of the subwoofer to enhance the bass.

Press **WOOFER POWER** button on the remote control repeatedly (or press **SUBWOOFER ON/OFF** on the subwoofer) to turn on the subwoofer.

SUB\_WOOFER ON ⇌ SUB\_WOOFER OFF

### 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.

#### **N**ote

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.

### Setting the Clock

1. Press **CLOCK**.  
(If the clock is requires setting, press and hold **CLOCK** for more than 2 seconds.)  
- The hours begin to blink.
2. Select a 12 hour cycle or 24 hour cycle by turning **MULTI JOG SHUTTLE**.



(12HR)

or



(24HR)

3. Press **SET** to confirm the selected hour cycle.
4. Use **MULTI JOG SHUTTLE** to set the correct hours.
5. Press **SET**.
6. Use **MULTI JOG SHUTTLE** to set the correct minutes.
7. Press **SET** and the correct time is shown on the display.
8. Press **CLOCK** at any time to display the time for about 5 seconds.



## Timer

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

1. Press CLOCK to check the current time.

### Notes

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 → TAPE → USB) flashes in the display window in turn. Press SET when the desired function is flashing.
4. (1) a. When you select the TUNER function, 'PLAY' and 'REC' indicator flash in the display window alternately for about 3 seconds.
  - 'PLAY' indicator : TUNER play only
  - 'REC' indicator : TUNER play and recording
 b. Press SET when the desired function is flashing.
  - c. select the previous memorized preset number with MULTI JOG SHUTTLE and press SET.
    - 'ON TIME' indicator appears for about 0.5 seconds in the display window and then disappears.
 (2) When you select the CD, TAPE 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 turning MULTI JOG SHUTTLE.
6. Press SET to confirm the hour to switch on.
7. Set the minute to switch on by turning MULTI JOG SHUTTLE.
8. Press SET 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 turning MULTI JOG SHUTTLE.
10. Press SET.

11. Set the minute to switch off turning MULTI JOG SHUTTLE.

12. Press SET.

13. Adjust the volume level turning MULTI JOG SHUTTLE.


14. Press SET.

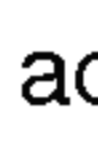

"" appears in the display window and the timer setting has been completed.



15. Switch the system off.

The selected function is automatically switched on and off at the time set.

To cancel or check the timer

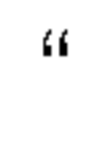
Each time the  TIMER button is pressed you can select the timer set or cancel. You can also check the timer setting status.

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.

## Using Microphone - OPTIONAL

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

1. Connect your microphone (not supplied) to the MIC socket.
  - "" will be shown in the display window.
2. Play a music you want.
3. Sing along with the accompaniment. Adjust the microphone volume by turning MIC VOLUME KNOB.

### Notes

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

## 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 TUNER 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 using AUTO TUNING DOWN/UP buttons or MULTI JOG SHUTTLE on the front panel. Or press the TUN (-/+ ) on the remote control.

### Tuning in automatically

- Press AUTO TUNING DOWN/UP on the front panel. Or press the TUN (-/+ ) on the remote control.
- Scanning stops when the unit tunes in a stations.

### Tuning in manually

- Turn MULTI JOG SHUTTLE on the front panel.

3. Press PROGRAM/MEMO on the remote control (or PROGRAM/MEMORY on the front panel).  
A preset number will flash in the display window.
4. Press PRESET DOWN/UP [or PRESET (▼/▲) on the remote control] to select the preset number you want.
5. Press PROGRAM/MEMO or PROGRAM/MEMORY 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 (or PROGRAM/MEMORY on the front panel) for about two seconds, "CLEAR" appears in the display window and then press PROGRAM/MEMO on the remote control (or PROGRAM/ MEMORY on the front panel) again, the stations are deleted.

### For your reference

If all stations have already been entered, "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 TUNER 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 (⏻ STANDBY/ON) to turn the unit off or select another function mode (CD, AUX,USB).

### For your reference

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

### Note

- When recording the MW (AM) broadcast, beat noises may be occur. If it does, press MODE/RIF button once.
- When receiving the MW (AM) broadcast, beat noises may be occur. If it does, press AM-NOISE button once.

AM-NOISE ON ⇌ AM-NOISE OFF

## RDS Function - OPTIONAL

### About RDS - OPTIONAL

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 - OPTIONAL

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 RDS services programme (PS), programme type recognition (PTY), Radiotext (RT) and Clock Time (CT) if transmitted by the station.

### RDS Display Options - OPTIONAL

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

(PTY → RT → CT → PS → FREQUENCY)

- PS (Programme Service name)- The name of the channel is shown in the Display Window.
- PTY (Programme type recognition)- The name of the programme type is shown in the Display Window.
- RT (Radiotext)- A "text" message contains special information from the broadcast station. Note that this message may scroll across the display to permit message.
- CT (Time controlled by the channel)- Enables the unit to receive the actual time and show it 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) - OPTIONAL

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

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

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

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

## Tape Playback

Use only normal tapes.

### Basic Playback

1. Press TAPE (or FUNCTION) to select tape function.  
("NO TAPE" appears in the display window.)
2. Load a tape.
3. Press PLAY (▶ or ◀: OPTIONAL).

### To Stop Play

Press STOP(■) during playback.

### To Play Rewind or Fast Forward

After pressing ◀◀/▶▶ on the front panel or on the remote control during playback or stop, press PLAY(▶) at the point you want.

### AUTO STOP DECK (TAPE 1/2)

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

### AUTO REVERSE DECK (TAPE 1 or 2)- OPTIONAL

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

Display	Function
→ ←	After the cassette of TAPE 1 or 2 plays front or reverse (backward play) side, stops automatically.
→ ← →	After the cassette of TAPE 1 or 2 plays front and reverse side, stops automatically.
(→ ←)	After the cassette of TAPE 1 or 2 plays six times repeatedly front and reverse side, stops automatically.
(→ ← CONT.)	After a cassette of TAPE 1 and 2 plays six times repeatedly front and reverse side, stops automatically.

### Dubbing

This function shows how to record from tape to tape.

1. Press TAPE (or FUNCTION) to select tape function.
  - Cassette TAPE 1- Insert a playback tape to dub.
  - Cassette TAPE 2- Insert a blank tape.
2. Press NOR-/ HI-DUBB. as shown below.

Pressing/Display	Function
NOR - DUBB.	Normal speed dubbing
HI- DUBB.	Double speed dubbing

To stop dubbing, press STOP(■).

## Tape Recording

Wind the tape to the point recording starts.  
Use only normal tapes.

### Basic Setting

1. Select a function you want to record except tape function.
2. Open the cassette TAPE 2 and insert a blank cassette into the cassette compartment.  
**To set the recording direction :OPTIONAL**  
Press PLAY MODE repeatedly to set the recording direction.

### General Recording

1. Press ● REC/PAUSE on the front panel or ●/|| on the remote control.  
- "REC" flashes and holds the cassette in pause mode.
2. Press ● REC/PAUSE on the front panel or ●/|| on the remote control again, then press PLAY (▶ or ◀: OPTIONAL) to start playing the source you want to record.  
The recording begins.

### To pause recording

Press ●/|| during recording.  
- "REC" flashes in display window.

### To stop recording

Press STOP(■).

### CD to Tape Synchronized Recording

The CD synchro recording function dubs a complete CD and programmed titles automatically into a cassette.

1. Press CD and load a disc you want to record.
2. Press CD SYNC. in stop mode.  
"REC" flashes and "CD SYNC" indicator lights.
3. The synchronized recording is started automatically after about 8 seconds.

### Notes

- If you wish to record from the desired track, select the desired track with CD SKIP/ SEARCH (◀◀ ◀◀/▶▶ ▶▶) before commencing CD synchro recording.
- The function change is not possible during recording.

## CD Playback

### Basic Playback

1. Press the CD button to enter the CD mode.  
If no disc is loaded then "NO DISC" is displayed.
2. Press ▲ OPEN/ CLOSE and place the disc into the disc tray.  
The disc on the left (DISC 1) is played first.



### 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 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.
- Use the MULTI JOG SHUTTLE to go to the next track or previous track.

### 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.

### To go to the next discs

Press DISC SKIP or D.SKIP during playing or stopping.

### To select a disc directly

Press DISC 1, DISC 2 or DISC 3 during playing or stopping.

When you press DISC 1-3 before playing a disc, the unit will automatically start playing the selected disc.

### To exchange discs during playback

You can open the disc tray while playing a disc to check what discs are to be played next and exchange discs, without interrupting playback of the current disc.

1. Press ▲ OPEN/ CLOSE.  
The disc tray is opened. Two disc compartments appear. Even if the unit is playing a disc, it doesn't stop playing.
2. Replace discs in the compartments with other ones.  
The unit plays the disc in the left compartment after the current disc, and then the one in the right compartment.
3. Press ▲ OPEN/ CLOSE.  
The CD door closes.

### Notes

- Do not place more than one compact disc on one disc tray at the same time.
- Do not push on the disc tray to close CD door, you may damage the unit.

### Random playback

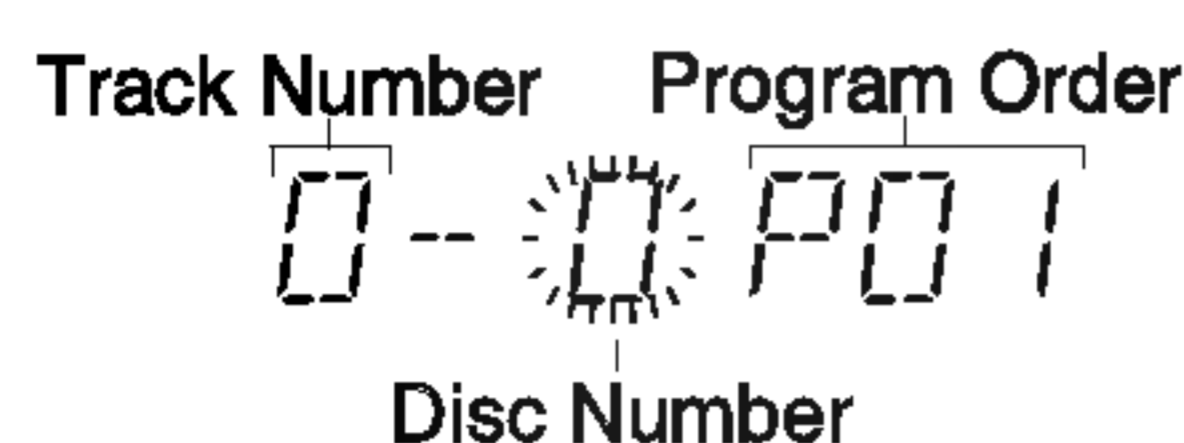
Press the RANDOM button on the remote control during playback.

The tracks on the CD will all play in random order.  
- "RANDOM" appears in the display window.

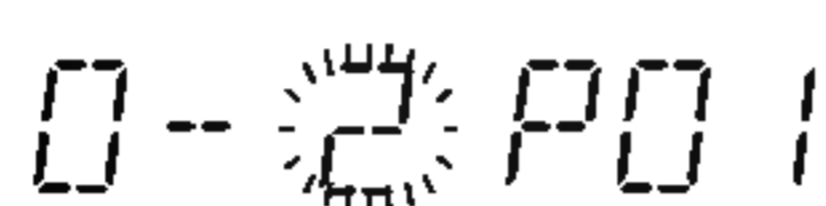
## Program Play

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

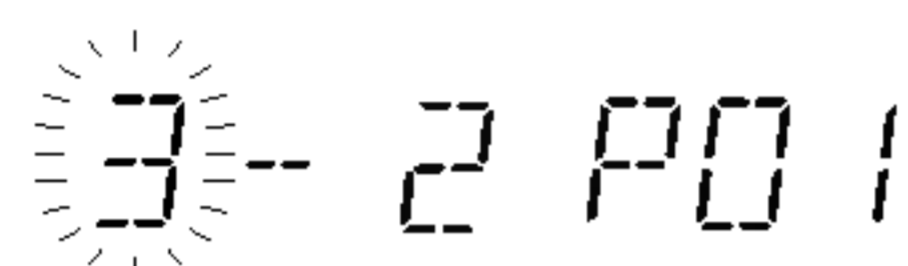
1. Press PROGRAM/MEMO on the remote control (or PROGRAM/MEMORY on the front panel) on the stop mode.



2. Press D.SKIP, DISC SKIP or DISC DIRECT PLAY (DISC1/2/3) to select the disc.



3. Press **◀◀** **◀/▶** **▶▶** to select the track. Or use MULTI JUG SHUTTLE.



4. Press PROGRAM/MEMO on the remote control (or PROGRAM/MEMORY on the front panel).
5. Repeat 1~3.
6. 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 (or PROGRAM/MEMORY on the front panel) on the stop mode.

- The disc, track and program number will be displayed in the display window.

### To clear program contents

Press PROGRAM/MEMO on the remote control (or PROGRAM/MEMORY on the front panel) 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 (or PROGRAM/MEMORY on the front panel) repeatedly on the program stop mode until disc number blinks.
2. Repeat 2~4 on above.

### To modify program contents

1. Press PROGRAM/MEMO on the remote control (or PROGRAM/MEMORY on the front panel) 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 one disc repeatedly

Press REPEAT again during playback.  
- "REPEAT DISC" appears in the display window.

### To play all tracks on all discs repeatedly

Press REPEAT once more during playback.  
- "REPEAT ALL DISC" appears in the display window.

### To cancel repeat play

- Press REPEAT several times until repeat indicators disappear.

### Program repeat play

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

### To check MP3 file information

Press the 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.



## USB Playback

### Basic Playback

1. Plug the USB device into the USB connector of your unit. (See page 8.)
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.



Besides Basic Playback, If you want to operate other functions, see the CD Playack 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.



- 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)
  - Compatable with : FAT12,16,32
  - Only use the memory cards recommended.

## 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.

# 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 following 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 audio cables (or SYSTEM connector jack) are not connected securely.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the audio cable (or SYSTEM connector jack) into the jacks securely.</li> </ul>
	<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>Turn on the equipment connected with the audio cable.</li> </ul>
	<ul style="list-style-type: none"> <li>The speaker cable is set to the wrong position.</li> </ul>	<ul style="list-style-type: none"> <li>Set the speaker cable to the correct position, then turn on the unit again by pressing POWER.</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

SECTION		MODEL	LM-U5050	LM-U4050	LM-U2350
[General]	Power supply	Refer to the back panel of the unit.			
	Power consumption	200 W		110 W	
	Weight	8.5 kg			
	External dimensions (W x H x D)	280 x 370 x 400 mm			
[CD]	Frequency response	40 - 18000 Hz			
	Signal-to-noise ratio	75 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	30 dB		
		Frequency Response	120 - 2000 Hz		
[Amp]	Output Power	Front : 270 W + 270 W (LM-U5050 model only) 250 W + 250 W (LM-U4050/U2350 model only) Surround : 110 W + 110 W (LM-U5050 model only) Subwoofer : 350 W (LM-U5050/U4050 model only)			
	T.H.D	0.7%			
	Frequency Response	42 - 20000 Hz			
	Signal-to-noise ratio	80 dB			
[TAPE]	Tape Speed	3000 ± 3 % (MTT-111. NORMAL-SPEED)			
	Wow Flutter	0.25 % (MTT -111, JIS-WTD)			
	F.F/REW Time	120 sec (C-60)			
	Frequency Response	125 - 8000 Hz			
	Signal to Noise Ratio	40 dB			
	Channel Separation	50 dB (P/B)/45 dB (R/P)			
	Erase Ratio	55dB (MTT-5511)			
[Speakers]	Speaker Name	Front speaker (L/R)		Surround speaker (L/R)	
		LMS-U5050	LMS-U4050/U2350	[LMS-U5050S]	
	Type	Bass Reflex 3Way 3 Speaker		Bass Reflex 2Way 2Speaker	
	Impedance	6 Ω		24 Ω	
	Frequency Response	55 - 20000 Hz		60 - 20000 Hz	
	Sound Pressure Level	86 dB/W (1m)		86 dB/W (1m)	
	Rated Input Power	270 W	250 W	110 W	
	Max. Input Power	540 W	500 W	220 W	
	Net Dimensions (W x H x D)	250 X 300 X 415 mm		187 X 258 X 415 mm	
Weight	9.3 kg		4.3 kg		
[Subwoofer]	Speaker Name	Subwoofer (LMS-U5050W/U4050W)			
	Type	1 Way 1 Speaker			
	Impedance	6 Ω			
	Frequency Response	45 - 15000 Hz			
	Sound Pressure Level	84 dB/W (1m)			
	Rated Input Power	350 W			
	Max. Input Power	700 W			
	Net Dimensions (W x H x D)	279 X 320 X 415 mm			
Weight	10.0 kg				



P/NO : 3834RH0096B