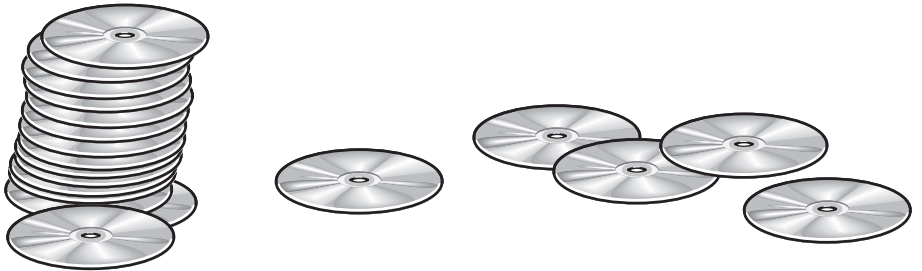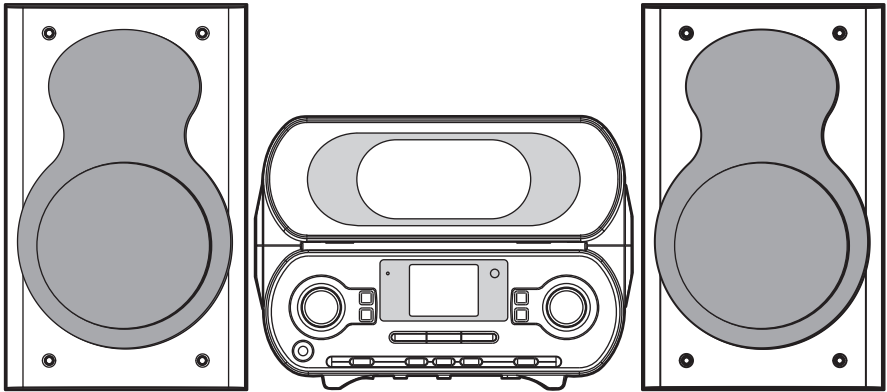**COMPACT**
disc
DIGITAL AUDIO

20 CD HOME STEREO SYSTEM

INSTRUCTION MANUAL

PRECAUTIONS

Follow the advice below for safe and appropriate operations.

Placement
- Do not use the unit in places which are extremely hot, cold, dusty, or humid.
- Place the unit on a flat and even surface.
- Do not restrict the air flow of the unit by placing it in a place with poor air flow, by covering it with a cloth, or by placing it on a carpet.
- The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on apparatus.

On AC Voltage
- Before use, check that the rated voltage of your unit matches your local voltage.

FCC Information
This device complies with Part 15 of FCC Rules
Operations are 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 undesirable operations.

Safety
- When connecting or disconnecting the AC cord, grip the plug and not the cord itself. Pulling the cord may damage it and create a hazard.
- When you are not going to use the unit for a long period of time, disconnect the AC power cord.

Condensation
- When left in a heated room where it is warm and damp, water droplets or condensation may form inside the CD player.
- When there is condensation inside the unit, the unit may not function normally. .
- Let it stand for 1 to 2 hours before turning the power on, or gradually heat the room up and dry the unit before use.
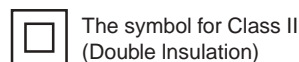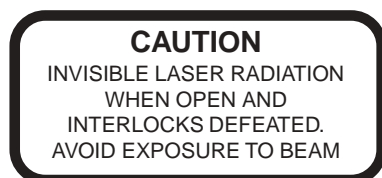
Should any trouble occur, disconnect the AC power cord and refer servicing to qualified personnel.

WARNING

Explanation of graphical symbols:

⚡ **CAUTION** **RISK OF ELECTRIC SHOCK DO NOT OPEN** ⚠	⚡ The lightning flash with an arrowhead symbol, within the 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 an electric shock to persons.
WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	⚠ The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

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

This product contains a low power laser device.

CLASS 1 LASER PRODUCT

☐ The symbol for Class II (Double Insulation)

CAUTION:
DO NOT CONNECT FM ANTENNA TO EXTERNAL ANTENNA

Important Safety Instructions (For USA)

1. **Read Instructions -** All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a book case or cabinet, that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Grounding or Polarization** - Precautions should be taken so that the grounding or polarization means of an appliance are not defeated.
12. **Power-Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
14. **Power Lines** - An outdoor antenna should be located away from power lines.
15. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 1.

FIGURE 1
EXAMPLE OF ANTENNA GROUNDING
AS PER NATIONAL
ELECTRICAL CODE

ANTENNA LEAD IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

ELECTRIC SERVICE EQUIPMENT

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUND CLAMPS

S2898A NEC-NATIONAL ELECTRICAL CODE

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

16. **Nonuse Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
17. **Object and Liquid Entry** - Care should be taken so that objects do not fall, and liquids are not spilled, into the enclosure through openings.
18. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    A. The power-supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled, into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
19. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
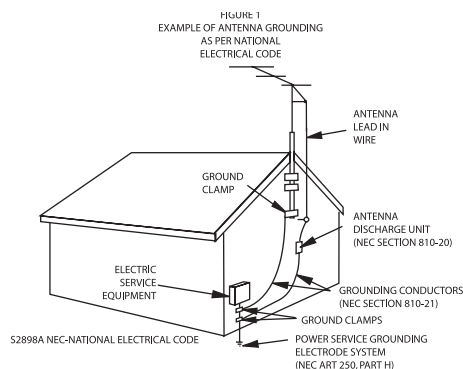
SYSTEM CONNECTIONS

Important
Switch off the power before connecting speakers and other equipment.

Speaker Cord Connections
Connect the Red wires of left speaker to the Red (+) terminals of active speaker and the Black wires of left speaker to the Black (–) terminals of active speaker.

Note:
Connecting speakers other than the speakers supplied with the unit, may damage the unit.

2. Connection Cable

3.
To AC outlet

1. To Active Speaker Terminals
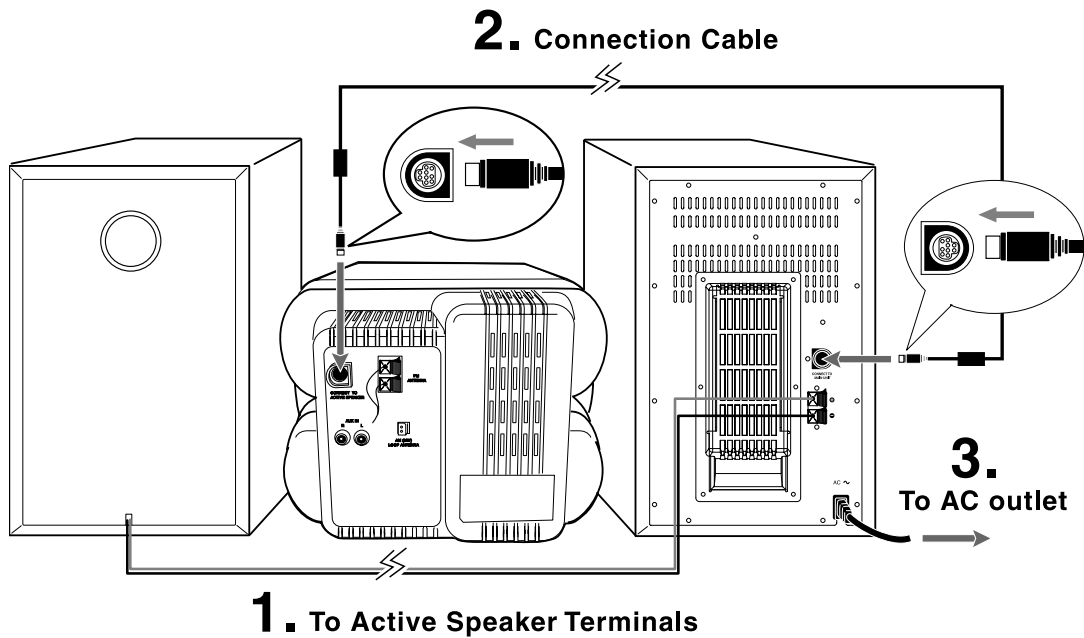
Power cord Connection
Make sure that all the components and speakers are connected correctly.

Caution
• Be sure the AC power cord of Active Speaker is disconnected and all functions are off before making connections.
• When you are not going to use the unit for a long period of time, disconnect the AC power cord.

To turn on the unit
Press the ⏻ **STANDBY/ON** button. The display will light up. Select the desired function and the corresponding function indicator will light up.

After use
Press the ⏻ **STANDBY/ON** button. The display will fade and only the clock display will be shown. The ⏻ STANDBY indicator will remain lit.

SYSTEM CONNECTIONS

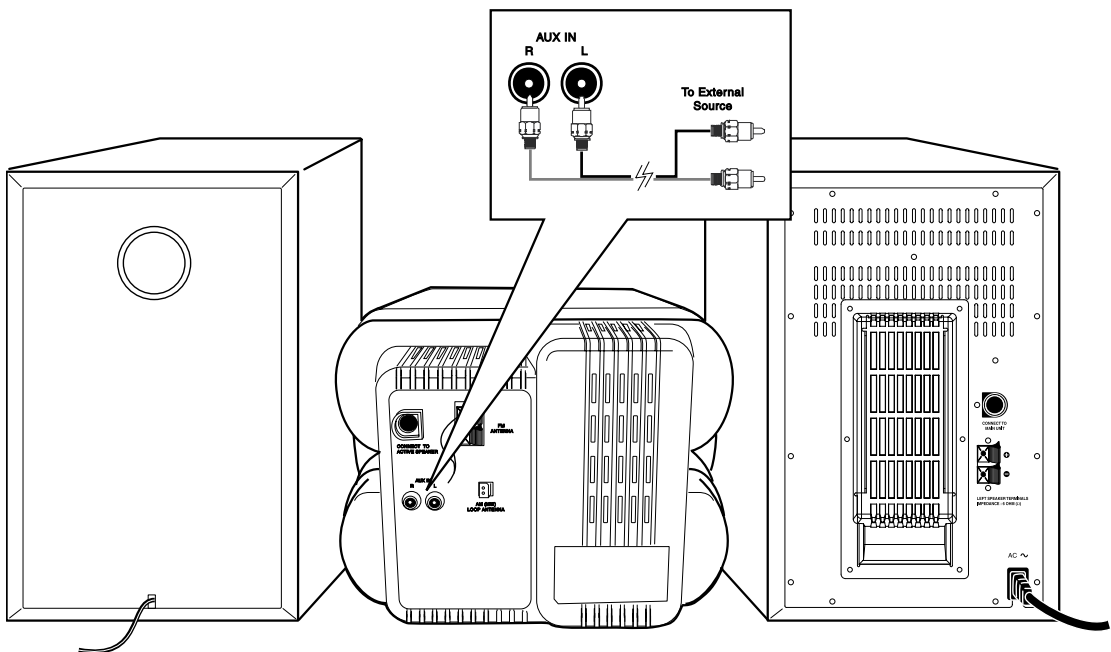## Connection with other optional equipment
To listen to or record audio signals from external units through this unit:
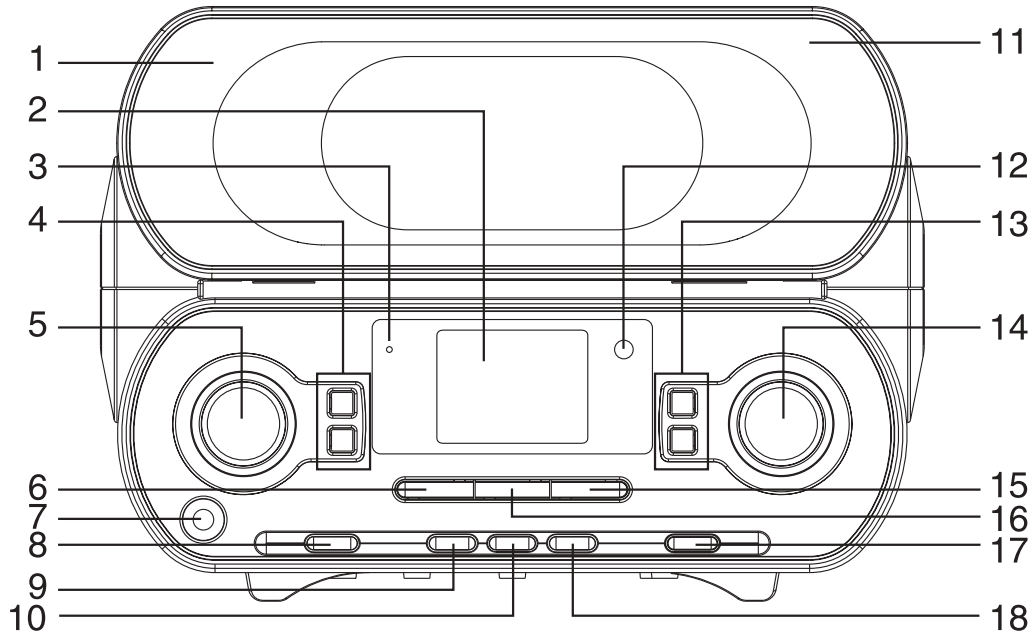Connect the white plug to the white (L) socket, and the red plug to the red (R) socket of the AUX IN connector.

Listening to the connected equipment
1. Press the **FUNCTION** button to until AUX is selected.
2. Play the external source.

Note : If the external equipment is a television and this audio system is close to the television, you may experience interference if the tuner function is selected while the television is working.
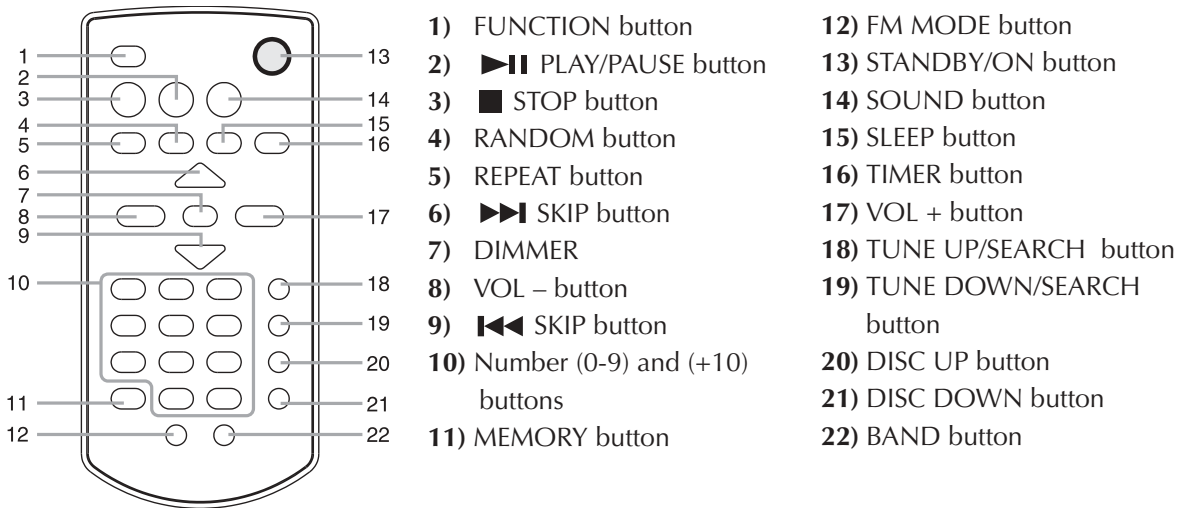
PARTS IDENTIFICATIONS

1) CD DOOR	**10)** SOUND MODE button
2) DISPLAY	**11)** OPEN/CLOSE CD DOOR
3) ⏻ STANDBY indicator	**12)** 🅡 REMOTE SENSOR
4) SKIP ▶▶❘ / ❘◀◀ /SEARCH buttons	**13)** TUNING ⌃ / ⌄ /RANDOM buttons
5) MULTI-JOG/DISC SKIP control	**14)** VOLUME control
6) FUNCTION button	**15)** ▶❚❚ PLAY/PAUSE button
7) ⌒ PHONES socket	**16)** ■ STOP/BAND button
8) ⏻ STANDBY/ON button	**17)** MEMORY button
9) REPEAT button	**18)** TIMER/SLEEP button

REMOTE CONTROL

1) FUNCTION button

2) ▶❙❙ PLAY/PAUSE button

3) ■ STOP button

4) RANDOM button

5) REPEAT button

6) ▶▶❙ SKIP button

7) DIMMER

8) VOL – button

9) ❙◀◀ SKIP button

10) Number (0-9) and (+10) buttons

11) MEMORY button

12) FM MODE button

13) STANDBY/ON button

14) SOUND button

15) SLEEP button

16) TIMER button

17) VOL + button

18) TUNE UP/SEARCH button

19) TUNE DOWN/SEARCH button

20) DISC UP button

21) DISC DOWN button

22) BAND button

Using the Remote Control

• Point the Remote Control at the REMOTE SENSOR " IR " located on the unit.

• When there is a strong ambient light source, the performance of the infrared REMOTE SENSOR " IR " may be degraded, causing unreliable operation.

• The recommended effective distance for remote operation is about 16 feet (5 meters).
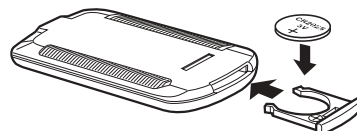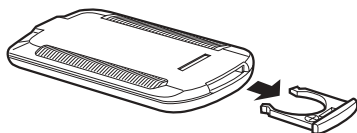
ATTENTION

Take out the PVC sheet before operating the remote control.
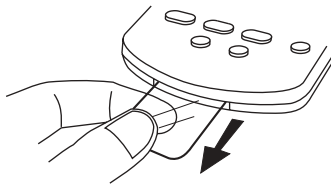
To Change Remote Battery

1. Open the battery door.

2. Insert new CR2025 (3V) size battery.

Battery Replacement

When battery becomes weak, the operating distance of the Remote Control is greatly reduced and you will need to replace the battery.
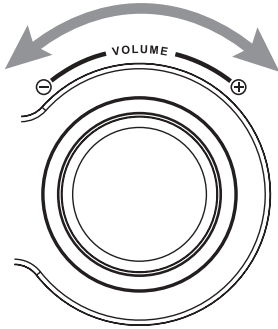
Notes:

• If the Remote Control is not going to be used for a long time, remove the battery to avoid damage caused by battery leakage corrosion.

• **WARNING:** Do not dispose of battery in fire, battery may explode or leak.
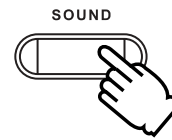
ADJUSTING THE SOUND

TO ADJUST THE VOLUME
Rotate the **VOLUME** knob to adjust the sound.

TO USE THE X-BASS
Press the **SOUND** mode button repeatedly, so that " **X-BASS** " appears on the display window. Rotate the **MULTI-JOG** control to select the level 1, 2 or off.

X-BASS is designed specifically to boost the low frequency sound to obtain a more powerful bass.

TO CHANGE THE PRESET EQUALIZER
Press the **SOUND** mode button repeatedly, so that " **PRESET EQ** " appears and flashes on the display window, then rotate the **MULTI-JOG** control to select an equalization mode (POP, ROCK, JAZZ, CLASSIC). Rotate the **MULTI-JOG** control repeatedly until the desired equalization indicator is illuminated.

POP: More presence of vocals and mid range.
ROCK: Emphasizes the mid range and bass sounds.
JAZZ: Emphasizes the mid range sounds.
CLASSIC: Equalizer off

FOR PERSONAL LISTENING
Connect headphones (ø 3.5mm stereo mini plug) to the ⌒ PHONES socket.

Adjust the **VOLUME** and **SOUND** mode controls for the desired listening level.

When headphones are connected, the speakers are switched off automatically.

SETTING THE CLOCK

1. In standby mode press the ▶❚❚ **PLAY/PAUSE** button.

2. Press the ▶❚❚ **PLAY/PAUSE** button and use the **MULTI-JOG** to adjust the hour.

8:00

3. Press the ▶❚❚ **PLAY/PAUSE** button and use the **MULTI-JOG** to adjust the minute.

8:00

4. Press the ▶❚❚ **PLAY/PAUSE** button and use the **MULTI-JOG**. Select either 24 hour/12 hour format.

12:HГ

Notes:

- The clock starts operating from "0" seconds. (Seconds are not displayed.)
- In the event of a power failure or when the AC power lead is disconnected, the clock display will go out.
  When the AC power supply is restored, the clock display will flash on and off to indicate the time when the power failure occurred or when the AC power lead was disconnected.
- You can only set the clock in standby mode.

HOW TO SET THE TIMER

SLEEP OPERATION

The tuner, CD and AUX can all be turned off automatically.

1. Select the desired sound source.

2. Press the **TIMER/SLEEP** button, so that " ON SLEEP " is displayed.

3. To change the sleep time:
Sleep time will initially be 90 minutes.
Sleep selection (Rotate **MULTI-JOG**) control to change minutes 240, 210, 180, 150, 120, 90, 60, 30, 10, 5, 4, 3, or 2.

The unit will turn off automatically after the preset sleep time has elapsed.

To cancel the sleep operation:

Press the **TIMER/SLEEP** button repeatedly until "ᄁ◌ ᴽᴸᴾ " appears on the display.

TIMER PLAYBACK

Before setting the timer, make sure that the clock setting is correct.

1. In standby mode, press the **TIMER/SLEEP** button.

2. Press the ▶❚❚ **PLAY/PAUSE** button.

3. Rotate the **MULTI JOG** to adjust the hour.

TIMER

4. Press the ▶❚❚ **PLAY/PAUSE** button.

5. Rotate the **MULTI JOG** to adjust the minute.

TIMER

6. Press the ▶❚❚ **PLAY/PAUSE** button.

7. Rotate the **MULTI JOG** to adjust the time for playback.

TIMER

8. Press the ▶❚❚ **PLAY/PAUSE** button

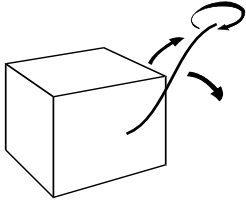### To cancel the timer playback operation

Press the **TIMER/SLEEP** button repeatedly until "**TIMER OFF**" appears on the display.

Note

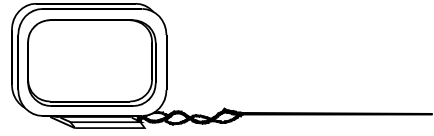You can only set the timer playback in standby mode.

FOR BETTER RECEPTION

FM

Fully unwind the wire aerial. Then extend the wire aerial and place it in the position that receives best reception.

NOTE: Do not connect to an outside aerial.

AM

Connect the loop aerial (provided) to the 'AM LOOP aerial' snap terminals at the back of the unit.
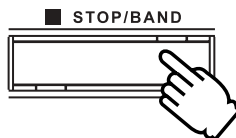
TUNING INTO A STATION MANUALLY

The system can store a total of 60 stations (30 FM and 30 AM). Presetting allows you to tune in to a station directly.
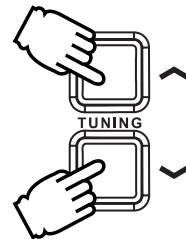
1. Press the **FUNCTION** button to select TUNER, function "**TUNER**" will appear in the display.

FUNCTION
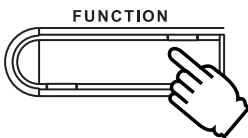
2. Press the ■ **STOP/BAND** button to select the desired band.

■ STOP/BAND

3. Tune into a station using the tuning buttons. "**STEREO**" will appear when an FM broadcast is in stereo.

TUNING

If the FM stereo broadcast signal is weak and you hear a hiss.
Press the ►❙❙ **PLAY/PAUSE** button, so that the "**STEREO**" disappears on the display. Press the ►❙❙ **PLAY/PAUSE** button again, so that the "**STEREO**" re-appears on the display.

To search for a station quickly
Hold the ⌄ **TUNING** ⌄ buttons and tuning will automatically stop when a station is found.
However, if the signal is weak the automatic search may not find any stations. In this case, search for the station manually.
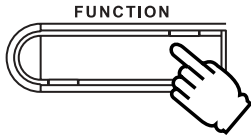
After use:
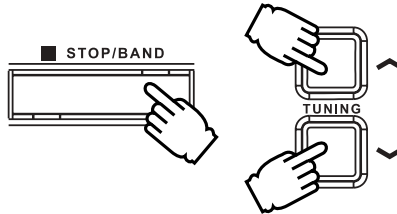Press the ⏻ **STANDBY/ON** button to turn the power off.

Note
The last station tuned in will be recalled, even after changing the tuning band or the function, or after turning the power off.
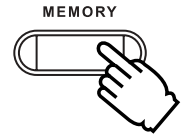
PRESETTING STATIONS
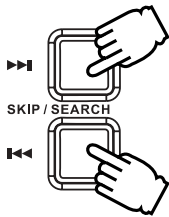
1. Press the **FUNCTION** button to TUNER.

FUNCTION

2. Press the ■ **STOP/BAND** button to select the desired band and tune to the required station.
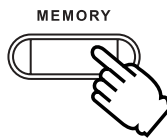
■ STOP/BAND

TUNING

3. Press the **MEMORY** button.

MEMORY

4. Press ▶▶│ / │◀◀ **SKIP/ SEARCH** button to select the required preset number.
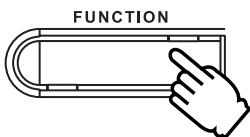
▶▶│

SKIP / SEARCH
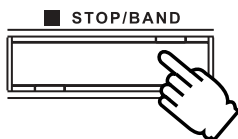
│◀◀

5. Press the **MEMORY** button to store the station.

MEMORY

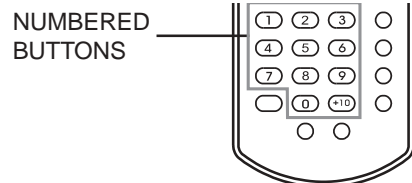Repeat steps 2-5 to set other preset stations.

TUNING INTO A PRESET STATION

1. Press the **FUNCTION** button to select TUNER.

FUNCTION

2. Press the ■ **STOP/BAND** button to select the required band.

■ STOP/BAND

3. Press the numbered buttons on the remote control to select a preset number.

NUMBERED BUTTONS

Example:
To select preset number 15,
press the +10 button and then 5 button.
To select preset number 10,
press the +10 button and then 0 button.
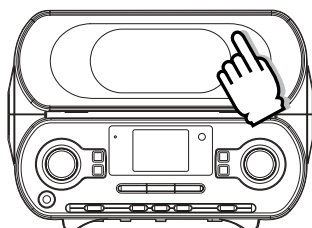
When an FM stereo broadcast contains noise
Press the ▶││ **PLAY/PAUS**E button so that "**STEREO**" disappears from the display. Noise is reduced, although reception is monaural.
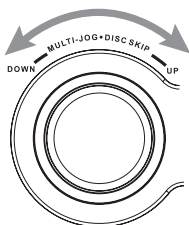
COMPACT DISC OPERATION

1. Press **STANDBY /ON** to turn on the player.

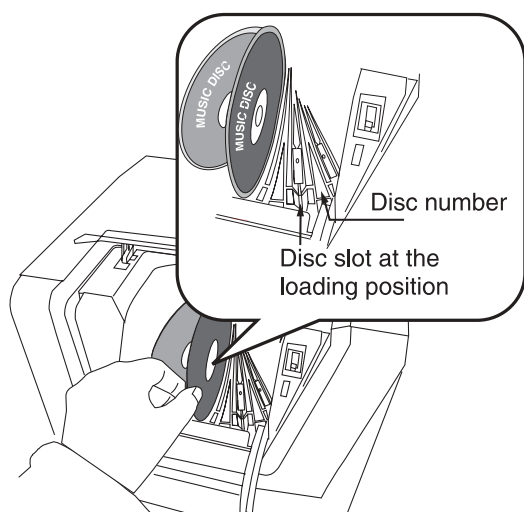**2.** Press **FUNCTION** repeatedly until " $20\,cd$ " appears.

3. Open the CD door by pushing the top right edge of the cover.

4. Rotate the **DISC SKIP** control to turn the tray.
Place other disc(s) in the disc holder(s). And turn to select disc number.

5. Insert a disc with the label side facing right.

Disc number

Disc slot at the loading position

6. Repeat steps 4 and 5 to insert more discs.

7. Close the CD door by pushing the right edge of the cover until it clicks

8. Turn the MULTI-JOG • DISC SKIP until the desired disc number or the disc title appears Press either one of the **SKIP ▶▶I** / **I◀◀** buttons to select the desired track.

9. Press the **▶II PLAY/PAUSE** button to start playback.

To pause playback
Press the **▶II PLAY/PAUSE** button and ' **II** ' will be displayed. Press this button again to resume playing.

Notes
• Playback will begin from first track on the disc you have selected to play.
• After the disc finishes playing, the next disc will automatically play.
• When there is no CD in one of the 20-disc position, that position will be skipped and the next CD will be played.
• When the last track on the last disc has finished playing, the unit will stop automatically. (e.g. first disc is disc 3, then last disc is disc 2)
• When the DISC SKIP button is pressed, playback will begin automatically from the next disc. (It is not necessary to press the PLAY button)

10. To stop playing:
Press the **■ STOP** button.

Notes
1. The **SKIP ▶▶I** / **I◀◀** buttons can only be used to choose a track of the current disc. To choose a track of another disc, the DISC SKIP button should be used to get to the desired disc first.
2. Press **▶II PLAY-PAUSE** button to continue playback.

COMPACT DISC OPERATION
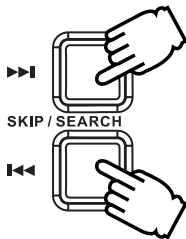
LOCATING A PARTICULAR POINT IN A TRACK

Searching for the beginning of a track
To find a later track
Press the **SKIP** ▶▶︎ button repeatedly until you find the track.

To find a previous track
Press the **SKIP** ◀◀ button repeatedly until you find the track.

Locating a particular point in a track
To move backward at high speed
Keep the **SKIP/SEARCH** ◀◀ button on the unit or the **SEARCH** ◀◀ button on the remote pressed during play and release at the desired point.

To move forward at high speed
Keep the **SKIP/SEARCH** ▶▶︎ button on the unit or the **SEARCH** ▶▶ button on the remote pressed during play and release at the desired point.
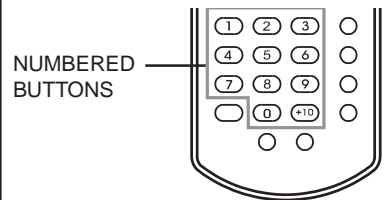
Keep it pressed
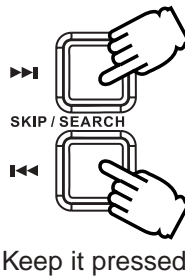
A specific track directly
Press the numbered buttons to enter the track number.
Example:
To select the 25th track, press the +10, +10 and 5 buttons.
To select the 10th track, press the +10 and 0 buttons.
The selected track starts to play and play continues to the end of that disc.

NUMBERED BUTTONS

Note : Searching and skipping can be done during playback or pause stage but are effective for the currently selected disc only.
Use **DISC SKIP** button to choose another disc.

RANDOM PLAY
Shuffle play - playing in a random order

Random play all disc:
1. Press the **RANDOM** button, the word " RANDOM " will appear on the display.
2. Press the ▶❚❚ **PLAY/PAUSE** button .

To cancel random play
Press the **RANDOM** button until the word " RANDOM " disappears.

Note
• You can set or cancel the random play in playback mode or stop mode.
• Total 60 songs selected for RANDOM no matter number of discs inside.

COMPACT DISC OPERATION

PROGRAM PLAYBACK --- in the stop mode
You can play back the tracks on the CDs in the disc 1-20 positions in any order desired. By specifying the disc numbers from 1 to 20 and the tracks numbers from 1 to 99. A program of up to 20 tracks from all the available discs in the disc tray can be played in a preset order.

In stop mode

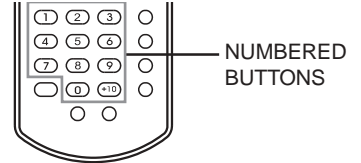|	
1. Press **MEMORY** button (in stop mode).	**3.** Press the numbered buttons and the +10 button or **SKIP/SEARCH** button to program a track. Then press **MEMORY** button to save the track.
	Example: To select the 12th track, press the +10 and 2 buttons. To select the 20th track, press the +10 and +10 and 0 buttons.
2. Press the numbered buttons 1-20 or **SKIP/SEARCH** button to select which disc for playback. Then press **MEMORY** button to save the disc number.	**4.** Repeat steps 2 and 3 to program other tracks. **5.** Press the ▶❙❙ **PLAY/PAUSE** button to start play.

To check the program
Rotate the **MULTI-JOG** in program mode, a track number and program number will be displayed.

To clear the program
Press the ■ **STOP/BAND** button twice or open CD door.

To change the programmed tracks
Clear the program and repeat all the steps again.

REPEAT PLAY
A single track, a disc or all discs can be played back repeatedly

Repeating the current track While a track you want to repeat is playing in normal play, press the **REPEAT** button until " REPEAT ONE " appears on the display window.	**Repeating all tracks of a disc** While the disc you want to repeat is playing in normal play, press the **REPEAT** button until " REPEAT ONE DISC " appears on the display window.
Repeating all discs Press the **REPEAT** button repeatedly until " REPEAT ALL DISC " appears on the display window.	**To cancel repeat play** Press the **REPEAT** button several times until " REPEAT ONE " " REPEAT ONE DISC " or " REPEAT ALL DISC " disappears on the display window.

MAINTENANCE
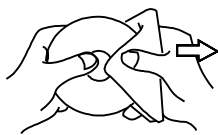
Cleaning Disc
A defective or soiled disc inserted into the unit can cause sound to drop out during playback.
Handle the disc by holding its inner and outer edges.
• Do NOT touch the surface of the unlabeled side of the disc.
• Do NOT stick paper or tape on the surface.
• Do NOT expose the disc to direct sunlight or excessive heat.
• Clean the disc before playback. Wipe the disc from the center outward with a cleaning cloth.
• NEVER use solvents such as benzine or alcohol to clean the disc.
• Do NOT use irregular shape discs (example : heart shaped, octagonal, etc.). They may cause malfunctions.

Cleaning the unit
• Be sure to turn the unit off and disconnect the AC power cord before maintaining the unit.
• Wipe the unit with a dry soft cloth. If the surfaces are extremely dirty, wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, then wipe with a dry cloth.
• Never use alcohol, benzine, thinner, cleaning fluid or other chemicals. Do NOT use compressed air to remove dust.

Important Note
Before transporting the unit, remove disc from the disc compartment.

TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE (AND REMEDY)
GENERAL No sound.	• Press the VOLUME UP button. • The headphones are connected. Disconnect them. • Reset the unit by pressing the Power/Standby switch. • Suddenly OFF when playing, the SLEEP function is activated. • Make sure you have inserted the disc into each slot correctly.
No sound from one channel or unbalanced left and right volume.	• Check the speaker connections of the inoperative channel.
Reversed left and right sound.	• Check the speaker cord connection and speaker location.
Lack of bass sound or apparently imprecise physical location of musical instruments.	• Check that the speakers are connected the correct way.
Severe hum or noise.	• The TV or VCR is too close to the stereo system. Separate the stereo system from the TV or VCR.
RADIO RECEPTION The FM STEREO indicator flashes. Severe hum or noise.	• Adjust the antenna wire.
The stereo FM program cannot be received in stereo.	• Set the MODE switch to FM MONO, the FM STEREO light will go out.
CD PLAYER OPERATION Play does not start.	• The discs are not placed correctly. • Dirty disc. • The disc is inserted upside down. • The player is in the pause mode.
Distorted playback or sound loss during CD playback.	• Moisture condensation • CD disc is dirty or scratched.

SPECIFICATIONS

Power consumption   91W
Power requirements   AC ~ 100V 50/60Hz (Japan)
                                        AC ~ 110V/120 - 220/240 50/60Hz (Other countries)
                                        AC ~ 120V 60Hz (USA and Canada)
                                        AC ~ 220V 50Hz (Hong Kong and China)
                                        AC ~ 230-240V 50Hz (Europe)
                                        AC ~ 240V 50Hz (Australia)

Specifications and external appearance are subject to change without advance notice due to continuous product improvement.