# JVC CA-HXZ3R Compact Component System Instructions

# JVC

**COMPACT COMPONENT SYSTEM**
**CA-HXZ3R**
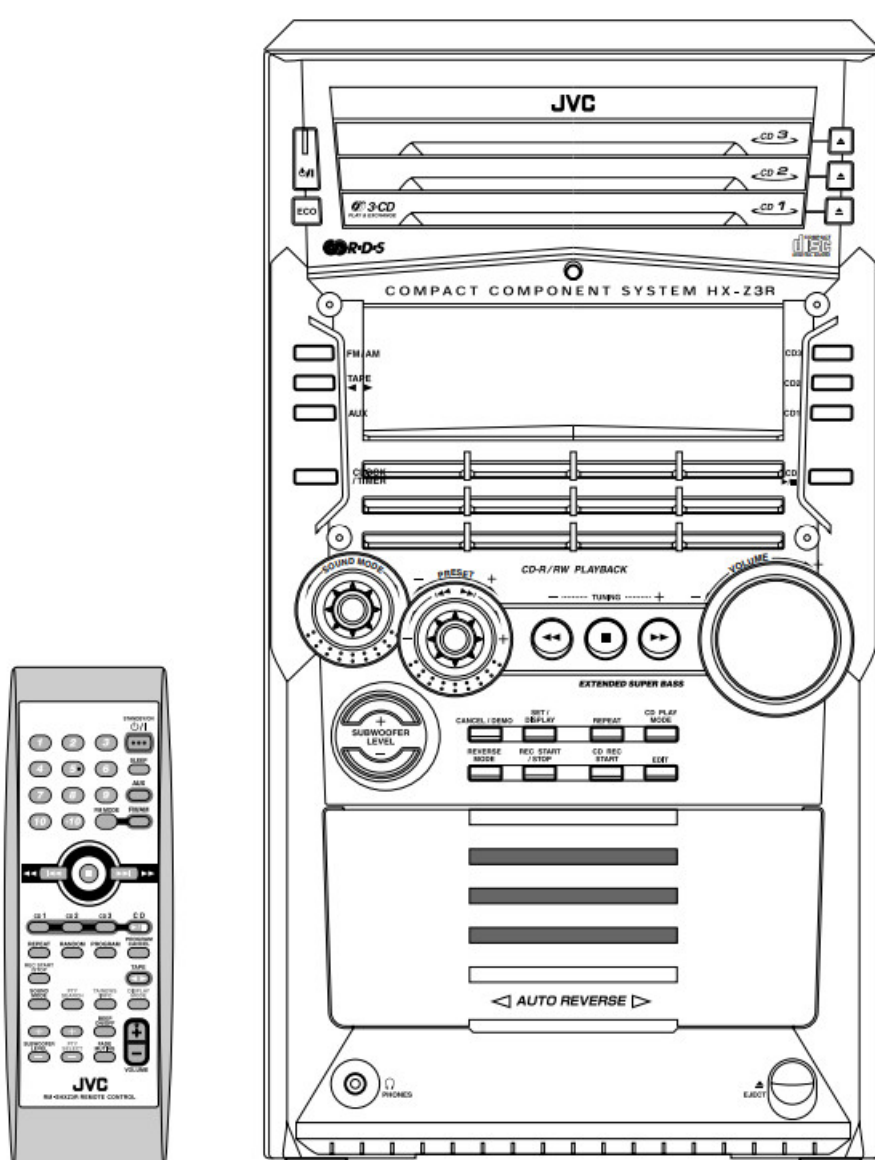
**For Customer Use:**
Enter below the Model No. and Serial No.
which are located either on the rear, bottom or side of the cabinet.
Retain this information for future reference.
Model No.
Serial No.
GVT0086-008A [B]

# Contents

## Warnings, Cautions and Others

**IMPORTANT for the U.K.**

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult  your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

**IMPORTANT:**

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral

Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the  terminal which is marked with the letter L or coloured red.

IF IN DOUBT—CONSULT A COMPETENT ELECTRICIAN.

**Caution—⏻ (standby/on) button!**

Disconnect the mains plug to shut the power off completely. The ⏻ (standby/on) button in any position does not disconnect the mains line. The power can be remote controlled. Caution
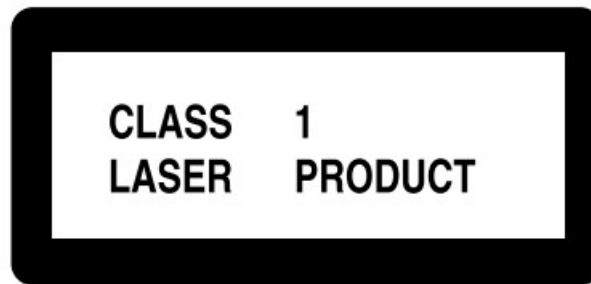
To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.

2. Do not expose this appliance to rain or moisture.

**IMPORTANT FOR LASER PRODUCTS**
REPRODUCTION OF LABELS

1. CLASSIFICATION LABEL, PLACED ON EXTERIOR SURFACE

```
CLASS    1
LASER    PRODUCT
```

2. WARNING LABEL, PLACED INSIDE THE UNIT

   1. CLASS 1 LASER PRODUCT

   2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

   3. CAUTION: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

**CAUTION**

- Do not block the ventilation openings or holes.
  (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- o not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

**Caution: Proper Ventilation**
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

1. Front: No obstructions and open spacing.
2. Sides/ Top/ Back:
   No obstructions should be placed in the areas shown by the dimensions below.
3. Bottom: Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

**Front view**

15 cm · 1 cm · 15 cm · 1 cm · 15 cm · 15 cm

10 cm

**Side view**

15 cm

15 cm
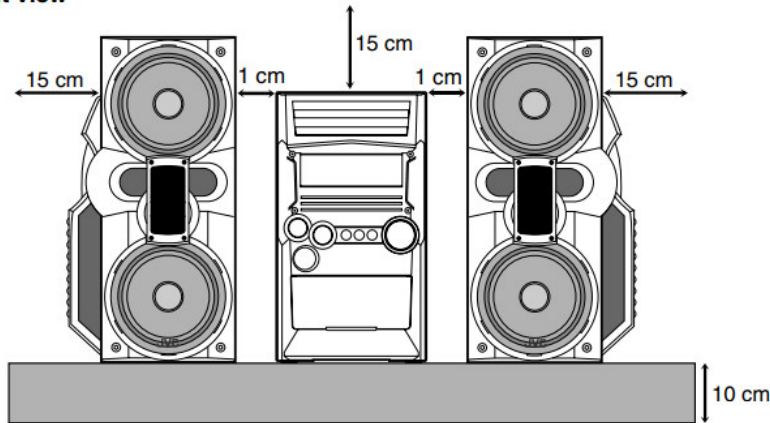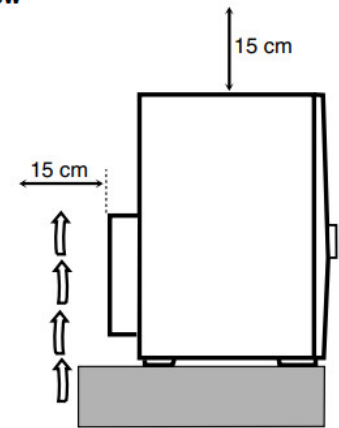
## SAFETY INSTRUCTIONS

"SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT"
This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.
☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆
Do read the operating instructions before you attempt to use the equipment.
Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw  the mains plug when making or changing connections.
Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.
Do be careful with glass panels or doors on equipment.
☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆
DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way— switch off, withdraw the mains plug and consult your dealer.
DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.
Switch off using the switch on the equipment and make sure that your family know how to do this.
Special arrangements may need to be made for infirm or handicapped people.
DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.
DON'T listen to headphones at high volume as such use can permanently damage your hearing.
DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.
Overheating will cause damage and shorten the life of the equipment.
DON'T use makeshift stands and NEVER fix legs with wood screws—to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.
DON'T allow electrical equipment to be exposed to rain or moisture.
ABOVE ALL
— NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case—this could result in a fatal electrical shock.
— NEVER guess or take chances with electrical equipment of any kind—it is better to be safe than sorry!

## Introduction

We would like to thank you for purchasing one of our JVC products.
Before operating this unit, read this manual carefully and thoroughly to obtain the best possible performance from your unit, and retain this manual for future reference.

### About This Manual
This manual is organized as follows:

- The manual mainly explains operations using the buttons and controls on the unit. You can also use the buttons on the remote control if they have the same or similar names (or marks) as those on the unit. If operation using the remote control is different from that using the unit, it is then explained.
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated in each procedure. For instance, we do not repeat the information about turning on/off the unit, setting the volume, changing the sound effects, and others, which are explained in the section "Common Operations" on pages 9 to 12.
- The following marks are used in this manual:

Gives you warnings and cautions to prevent from damage or risk of fire/electric shock.

Also gives you information which is not good for obtaining the best possible performance from the unit.

 Gives you information and hints you had better know.

**Precautions**
Installation

- Install in a place which is level, dry and neither too hot nor too cold—between 5˚C and 35˚C.
- Install the unit in a location with adequate ventilation to prevent internal heat buildup in the unit.
- Leave sufficient distance between the unit and the TV.
- Keep the speakers away from the TV to avoid interference with TV.

DO NOT install the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or vibration.

**Power sources**

- When unplugging from the wall outlet, always pull the plug, not the AC power cord.

DO NOT handle the AC power cord with wet hands.

**Moisture condensation**
Moisture may condense on the lens inside the unit in the following cases:

- After heating starts in the room
- In a damp room
- If the unit is brought directly from a cold to a warm place Should this occur, the unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

**Internal heat**
A cooling fan is mounted on the rear panel to prevent heat buildup inside the unit.
For safety, observe the following carefully:

- Make sure there is good ventilation around the unit. Poor ventilation could overheat and damage the unit.

- DO NOT block the cooling fan and the ventilation openings or holes. If they are blocked by a newspaper or cloth, etc., the heat may not be able to get out.

**Others**

- Should any metallic object or liquid fall into the unit, unplug the unit and consult your dealer before operating any further.
- If you are not going to operate the unit for an extended period of time, unplug the AC power cord from the wall outlet.
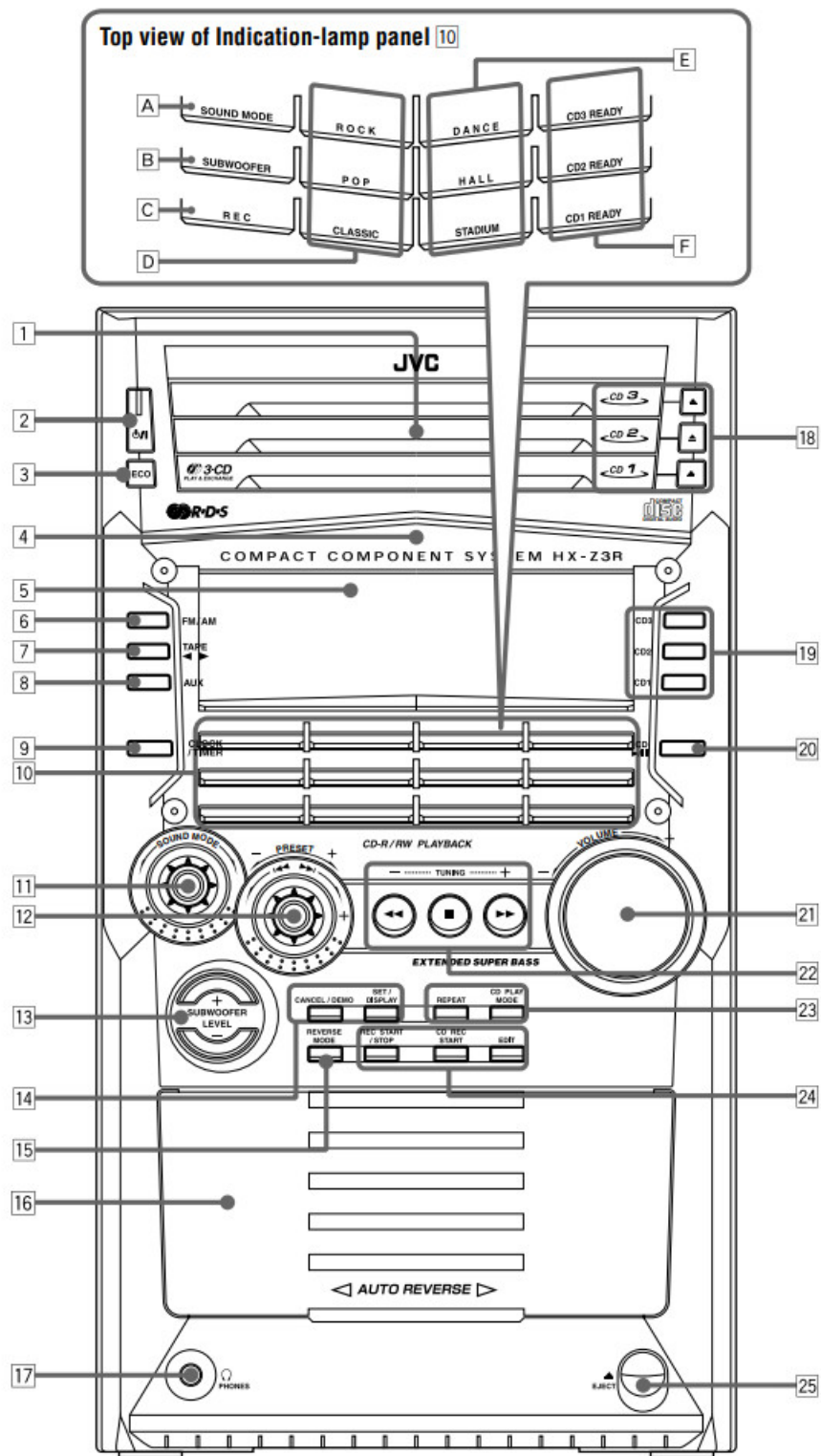
![STOP!]DO NOT disassemble the unit since there are no user serviceable parts inside.

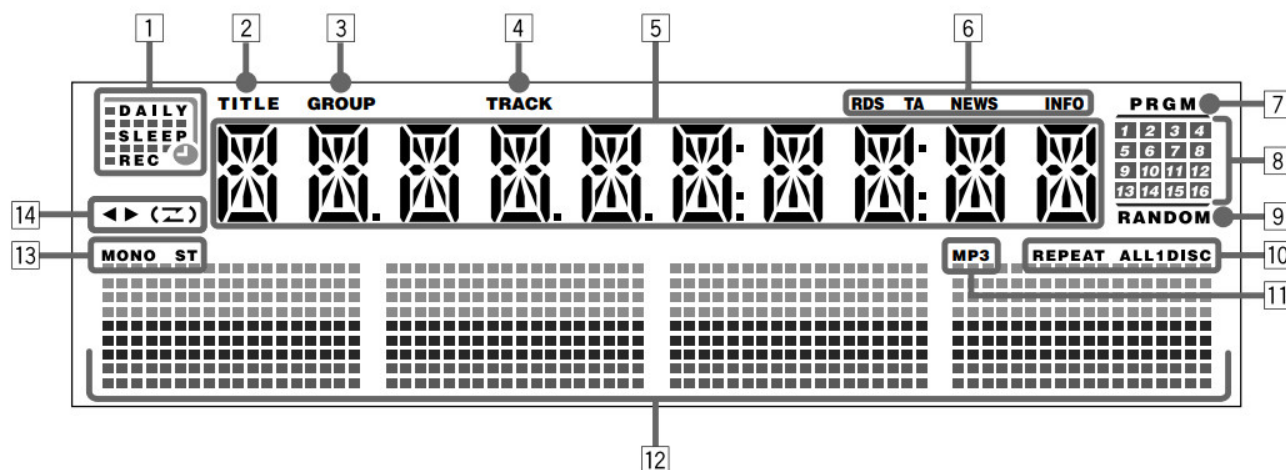If anything goes wrong, unplug the AC power cord and consult your dealer.

## Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.
**Front Panel**

A SOUND MODE
ROCK
DANCE
CD3 READY
E

B SUBWOOFER
POP
HALL
CD2 READY

C REC
CLASSIC
STADIUM
CD1 READY
F

D

JVC

3-CD PLAY & EXCHANGE

CD 3
CD 2
CD 1

RDS

COMPACT COMPONENT SYSTEM HX-Z3R

FM/AM

TAPE

AUX

CLOCK TIMER

SOUND MODE

PRESET

CD-R/RW PLAYBACK

TUNING

VOLUME

EXTENDED SUPER BASS

SUBWOOFER LEVEL

CANCEL/DEMO    SET/DISPLAY    REPEAT    CD PLAY MODE

REVERSE MODE    REC START/STOP    CD REC START    EDIT

AUTO REVERSE

PHONES

EJECT

CD3
CD2
CD1

**Display Window**

**Front Panel**

1. Disc trays

2. (standby/on) button and lamp (9, 28, 29)

3. ECO (Ecology) button (9)

4. Remote sensor

5. Display window

6. FM/AM button (9, 13)

   Pressing this button also turns on the unit.

7. TAPE 2 3button (9, 23, 24)

   Pressing this button also turns on the unit.

8. AUX button (9)

   Pressing this button also turns on the unit.

9. CLOCK/TIMER button (10, 27 – 30)

10. Indication-lamp panel

    SOUND MODE lamp (11)

    SUBWOOFER lamp (11)

    REC (recording) lamp (24 – 26)

    SEA (Sound Effect Amplifier) mode lamps (11)

    • ROCK, POP, and CLASSIC lamps

11. Surround mode lamps (11)

    • DANCE, HALL, and STADIUM lamps

12. CD ready lamps (16)

    • CD1 READY, CD2 READY, and CD3 READY lamps

13. SOUND MODE control (11)

14. PRESET + / – control (13) 4/ ¢ (reverse skip/forward skip) control (10, 12, 19 – 21, 25 – 29)

15. SUBWOOFER LEVEL + / – buttons (11)

16. Setting buttons (8, 10, 12, 13, 20, 21, 26 – 30, 33)

    • CANCEL/DEMO and SET/DISPLAY buttons

17. REVERSE MODE button (23 – 26)

18. Cassette holder (23 – 26)

19. PHONES ( ) jack (10)

(Disc tray open/close) (CD1, CD2, and CD3) buttons (16, 18, 19, 22)

Pressing one of these buttons also turns on the unit.

Disc number (CD1, CD2, and CD3) buttons (18 – 21, 25, 26)

Pressing one of these buttons also turns on the unit.

20. CD 3 button (9, 19 – 21, 25)

21. Pressing this button also turns on the unit.

22. VOLUME + / – control (10)

23. TUNING + / – buttons (13) (reverse search/forward search) buttons (12, 19, 23) (stop) button (19 – 26, 29)

24. Disc play mode buttons (20 – 22)

    • REPEAT and CD PLAY MODE buttons

    Recording buttons (24 – 26, 29)

    • REC START/STOP, CD REC START, and EDIT buttons

25. EJECT button for cassette deck (23 – 25)


**Display Window**


1. Timer indicators

    • DAILY (Daily Timer), SLEEP (Sleep Timer),

    REC (Recording Timer), and (Timer) indicators

2. TITLE indicator

3. GROUP indicator

4. TRACK indicator

5. Main display

    • Shows the source name, frequency, etc.

6. RDS operation indicators

    RDS, TA, NEWS, and INFO indicators

7. PRGM (program) indicator

8. Disc track number (1 – 16) indicators

9. RANDOM indicator

    p REPEAT (ALL/1/DISC) indicators

    q MP3 indicator
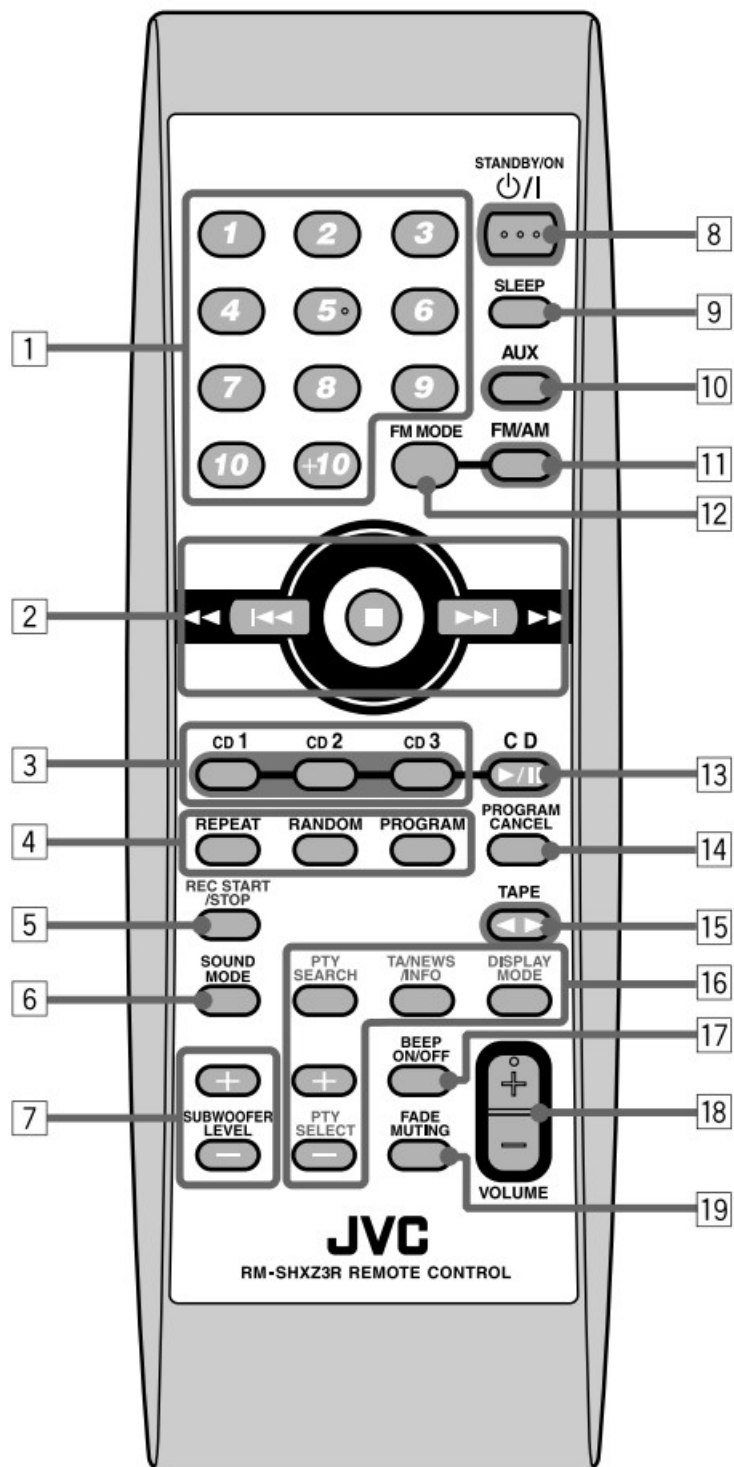
    w Audio level indicator

    When one of the 6 preset sound modes is activated, these will function as illumination display. For details, see
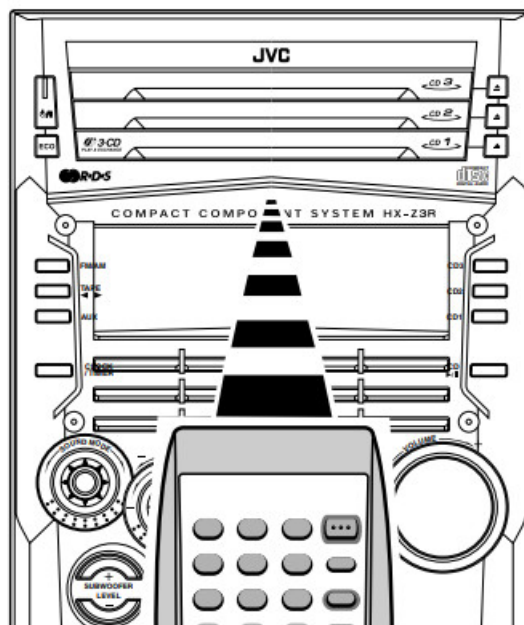
    "Selecting the Sound Modes" on page 11.

    e Tuner operation indicators

    • MONO and ST (stereo) indicators

10. Tape operation indicators (tape direction) and (reverse mode) indicators


**Remote Control**

STANDBY/ON
⏻/|

SLEEP

AUX

FM MODE    FM/AM

1

2

CD 1    CD 2    CD 3

C D
▶/❚❚

REPEAT    RANDOM    PROGRAM

PROGRAM
CANCEL

REC START
/STOP

TAPE
◀ ▶

SOUND
MODE

PTY
SEARCH    TA/NEWS
/INFO    DISPLAY
MODE

BEEP
ON/OFF

+

SUBWOOFER
LEVEL
−

+

PTY
SELECT
−

FADE
MUTING

+

−

VOLUME

JVC

RM-SHXZ3R REMOTE CONTROL

8

9

10

11

12

13

14

15

16

17

18

19

When using the remote control, point it at the remote sensor on the front panel.

**Remote Control**

1. Number buttons (13, 19, 20) 2 4 (1 )
2. ◄◄ / ►►(reverse skip/reverse search) button
   (13, 19, 21, 23)

   ■ (stop) button (19 – 21, 23 – 26, 29)

   (forward skip/forward search) button (13, 19, 21, 23)
3. Disc number (CD1, CD2, and CD3) buttons (18 – 21)
4. Disc play mode buttons (20 – 22)
   • REPEAT, RANDOM, and PROGRAM buttons
5. REC START/STOP button (24, 26, 29)
6. SOUND MODE button (11)
7. SUBWOOFER LEVEL + / – buttons (11)
8. STANDBY/ON button (9)
9. SLEEP button (30)
10. AUX button (9)
11. FM/AM button (9, 13)
12. FM MODE button (13)
13. CD 3¥8 button (9, 19 – 21)
14. PROGRAM CANCEL button (21)
15. TAPE 2 3 button (9, 23, 24)
16. RDS operation buttons
    • PTY SEARCH button (14)
    • TA/NEWS/INFO button (15)
    • DISPLAY MODE button (14)
    • PTY SELECT + / – buttons (14)
17. BEEP ON/OFF button (8, 9)

18. VOLUME + / – button (10)

19. FADE MUTING button (10)

## Getting Started

**Supplied Accessories**
Make sure that you have all the following items.
The number in the parentheses indicates the quantity of the pieces supplied.

- AM (MW/LW) loop antenna (1)

- FM antenna (1)

- Remote control (1)

- Batteries (2)

  If anything is missing, consult your dealer immediately.

**Putting the Batteries into the Remote Control**
Insert the batteries—R6(SUM-3)/AA(15F)—into the remote control, by matching the polarity (+ and –) on the batteries with the + and – markings on the battery compartment.
When the remote control can no longer operate the unit, replace both batteries at the same time.

R6(SUM-3)/AA(15F)
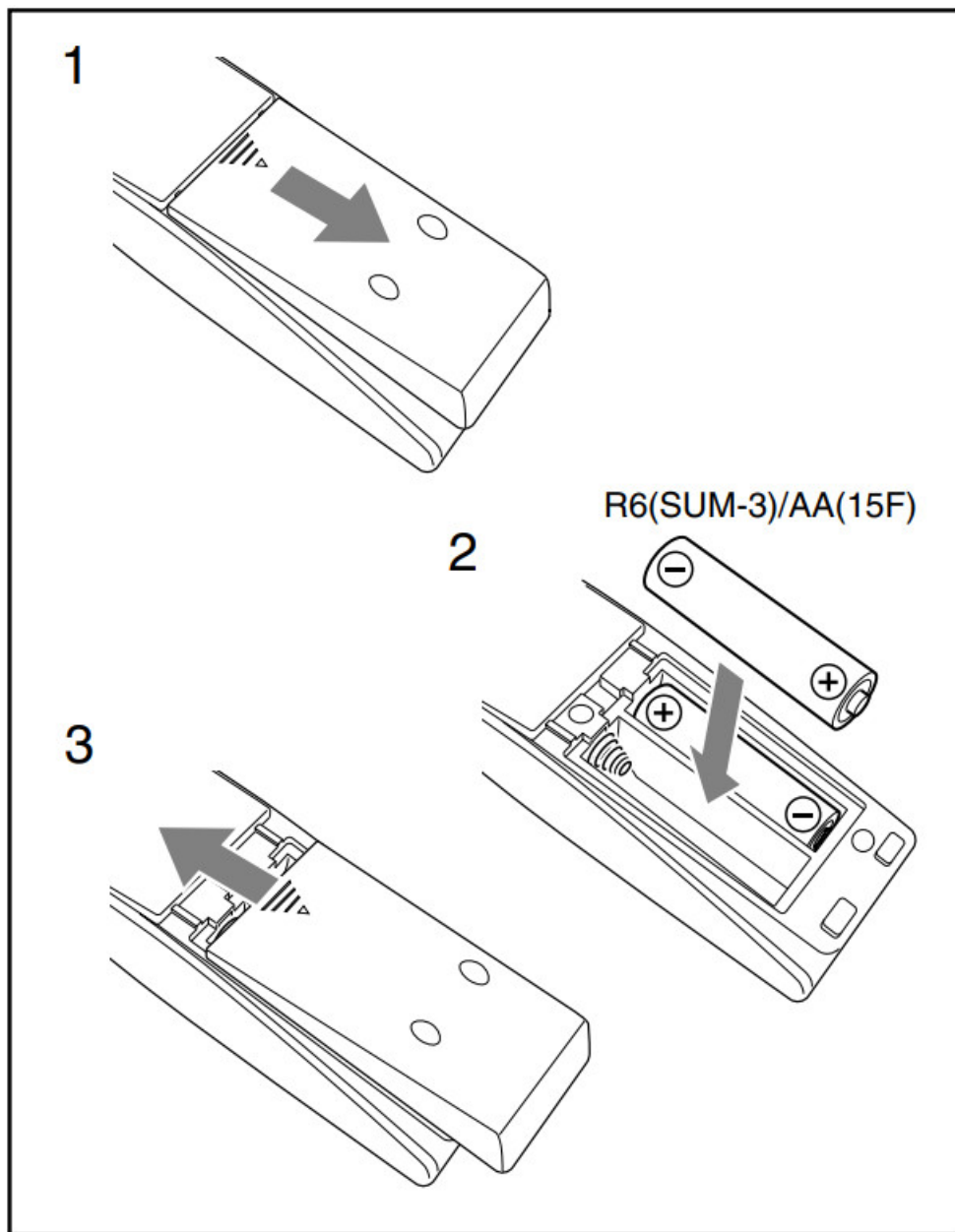
- DO NOT use an old battery together with a new one.
- DO NOT use different types of batteries together.
- DO NOT expose batteries to heat or flame.
- DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time.

  Otherwise, it will be damaged from battery leakage.
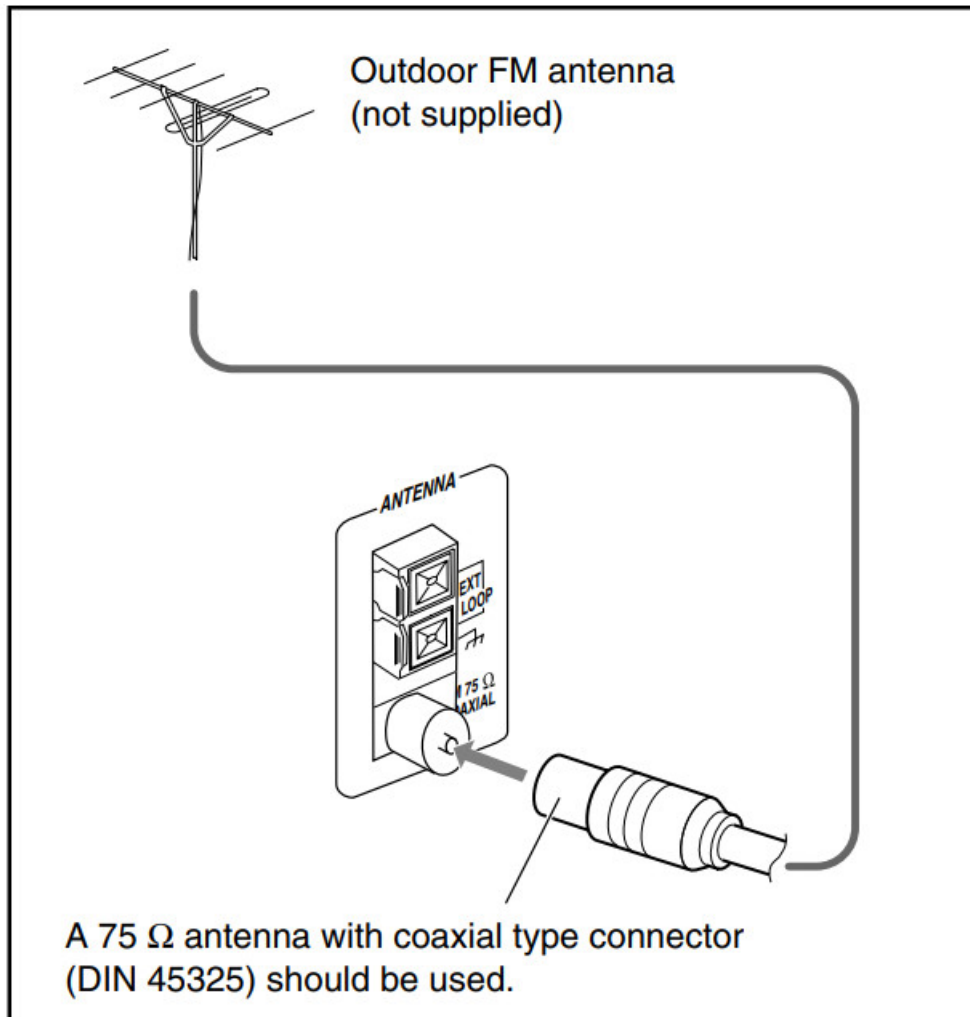
**Connecting Antennas**
**FM antenna**

FM antenna (supplied)
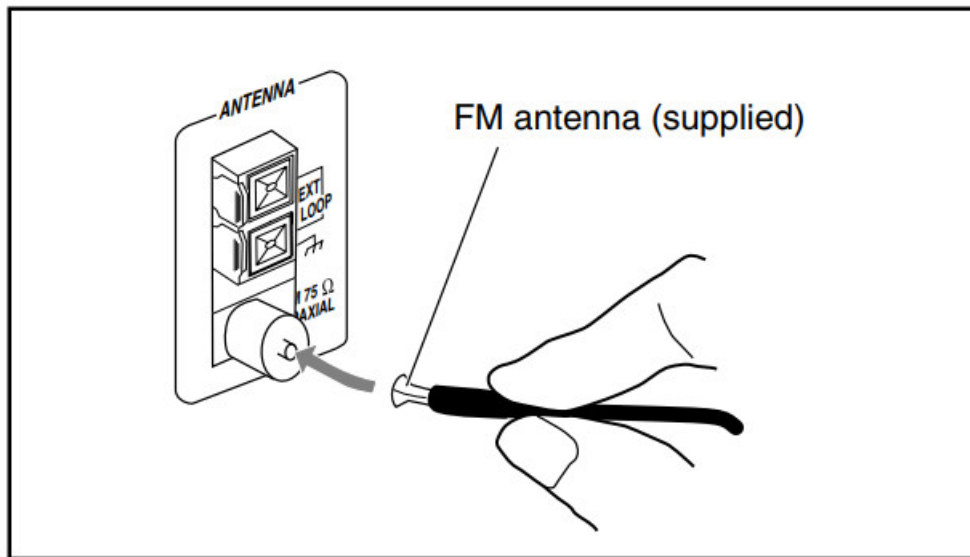
1. Attach the FM antenna to the FM 75 Ω COAXIAL terminal.

2. Extend the FM antenna.

3. Fasten it up in the position which gives you the best reception, then fix it on the wall, etc.

**About the supplied FM antenna**
The FM antenna supplied with this unit can be used as temporary measure. If reception is poor, you can connect an outdoor FM antenna.
To connect an outdoor FM antenna
Before connecting it, disconnect the supplied FM antenna.
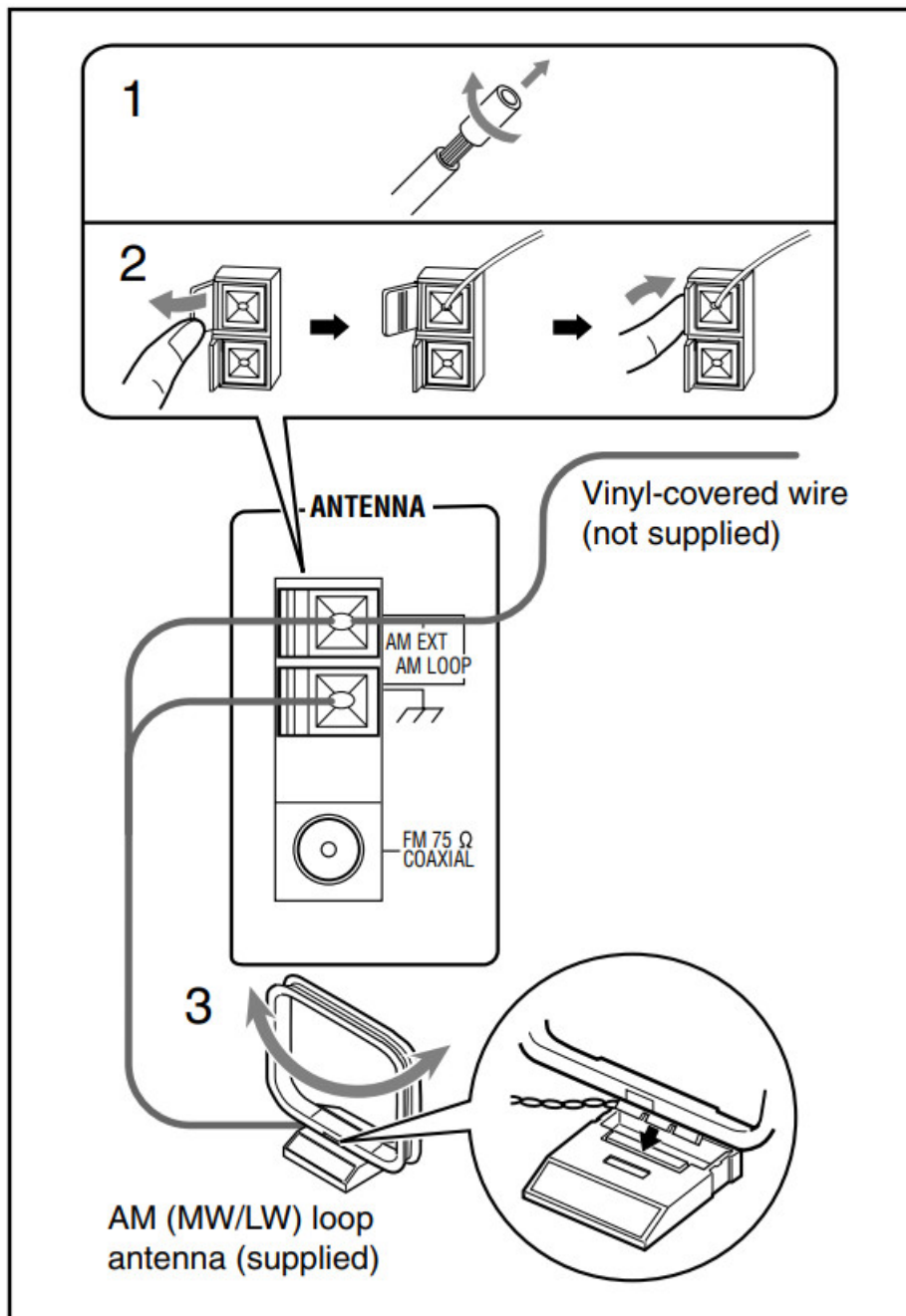


Outdoor FM antenna (not supplied)

A 75 Ω antenna with coaxial type connector (DIN 45325) should be used.

**AM (MW/LW) antenna**



1. If cords are covered with insulation, twist the core of the cord at the end of each cord, then remove the insulation.
2. Connect the AM (MW/LW) loop antenna to the AM LOOP terminals as illustrated.
3. Turn the AM (MW/LW) loop antenna until you have the best reception.
   To connect an outdoor AM (MW/LW) antenna
   When reception is poor, connect a single vinyl-covered wire to the AM EXT terminal and extend it horizontally.
   The AM (MW/LW) loop antenna must remain connected.

*notes*  **For better reception of both FM and AM (MW/LW)**

- Make sure the antenna conductors do not touch any other terminals and connecting cords.

- Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

**Connecting Speakers**
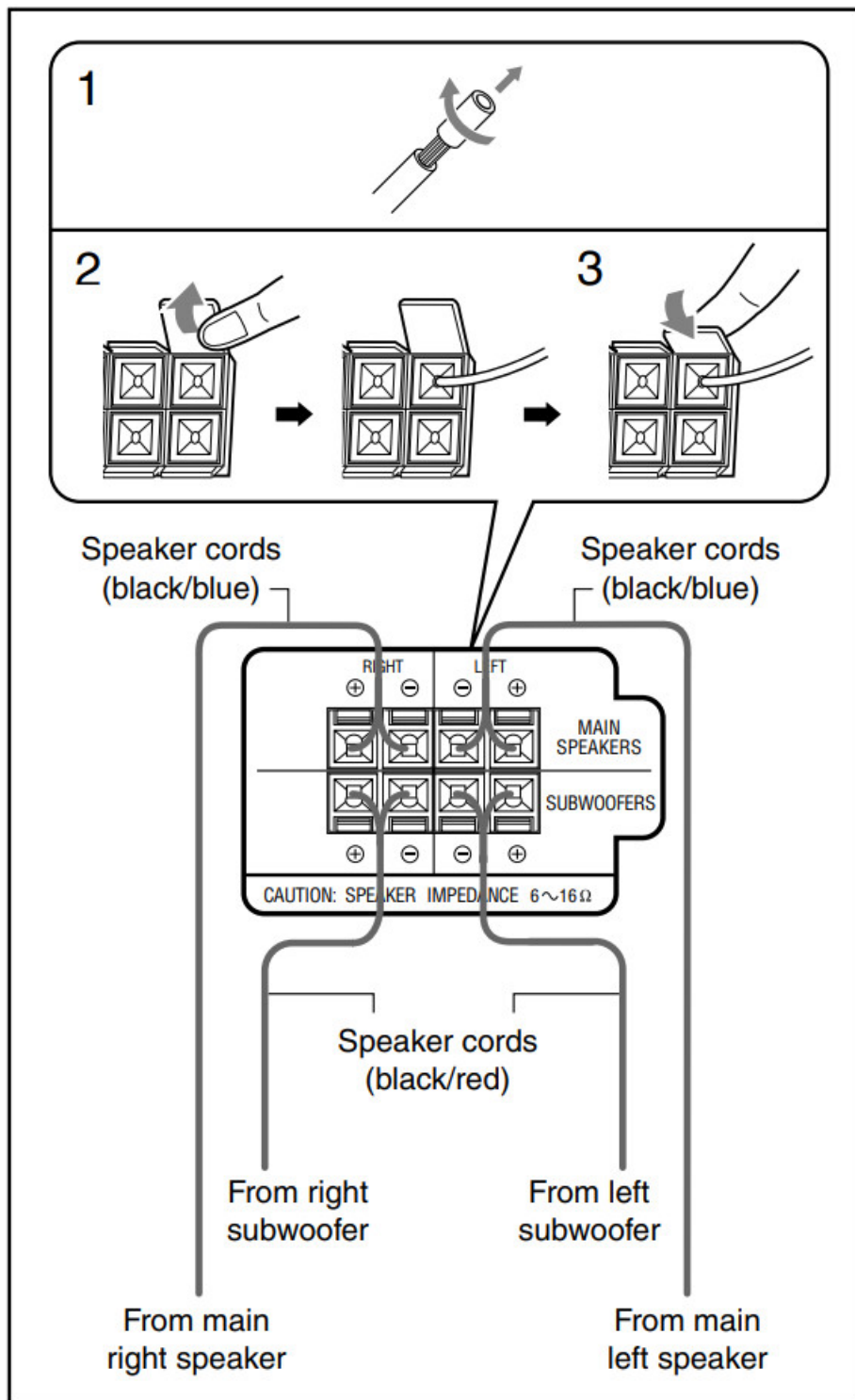


1. If cords are covered with insulation, twist the core of the cord at the end of each cord, then remove the insulation.
2. Insert the end of the speaker cord into the terminal as illustrated.
   Match the same polarity: (+) to (+) and (−) to (−).
3. Close the speaker terminals.

⚠️ **STOP!** **IMPORTANT:** Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the unit.

- DO NOT connect more than one speaker to each speaker terminal.
- DO NOT push or pull the speakers as this will damage the foot spacers at the bottom of the speakers.

**Connecting Other Equipment**
You can connect both analog and digital equipment.

- DO NOT connect any equipment while the power is on.
- DO NOT plug in any equipment until all connections are complete.

  To connect an analog component

  Be sure that the plugs of the audio cords are colored: White plugs and jacks are for left audio signals, and red ones for right audio signals.
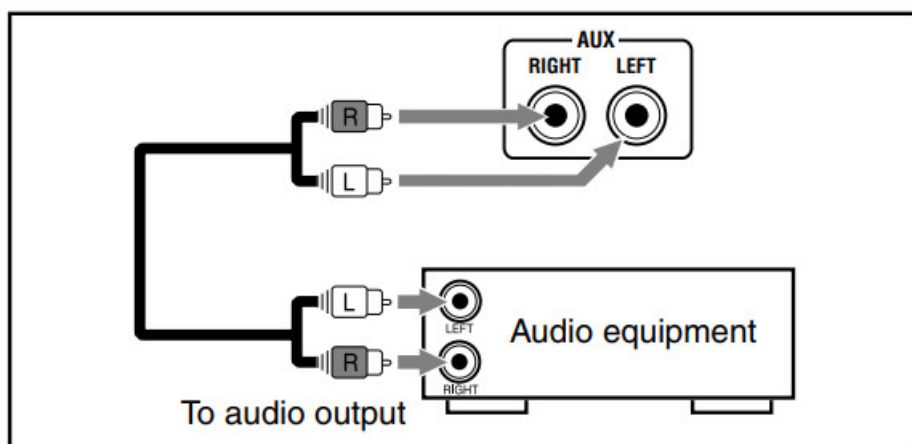


For playing the other equipment through this unit, connect between the audio output jacks on the other equipment and AUX jacks by using an audio cord (not supplied).
To connect audio equipment with an optical digital input terminal
You can record audio CD sound onto the connected digital equipment.

- If the disc played back is an MP3 disc, no sound can be output from the unit to the connected digital equipment.
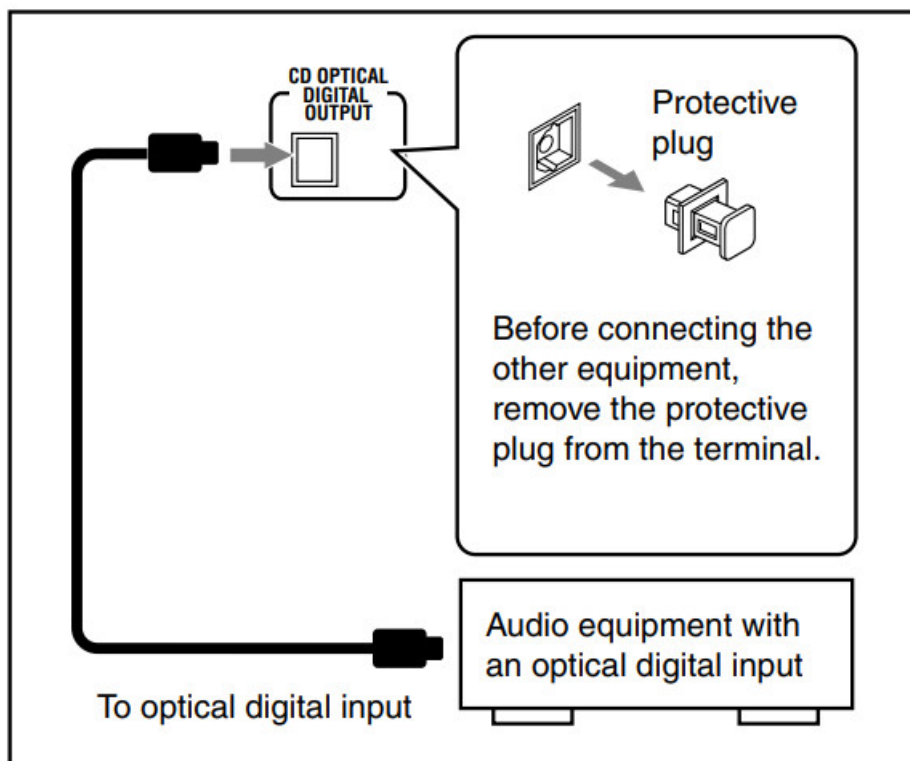
Connect an optical digital cord (not supplied) between the optical digital input terminal on the other equipment and the CD OPTICAL DIGITAL OUTPUT terminal.

**Now, you can plug the AC power cord.**
**IMPORTANT:** Be sure to check all connections to be done before plugging the AC power cord into a wall outlet.

**Canceling the Demonstration**
When connecting the AC power cord into a wall outlet, the unit automatically starts the demonstration.

To cancel the demonstration, press and hold CANCEL/DEMO until "DEMO OFF" appears on the display.

- To cancel only beep sounds during the demonstration, press BEEP ON/OFF on the remote control.
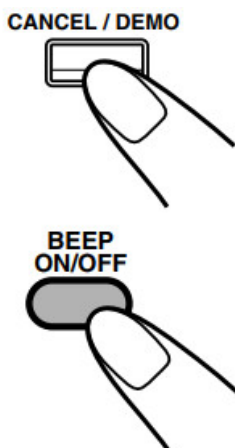


**When you press other buttons**
The demonstration stops temporarily. It will start automatically again (if no operation is done for 2 minutes) unless you cancel it by pressing CANCEL/DEMO.
To start the demonstration manually
Press and hold CANCEL/DEMO again until "DEMO START" appears on the display.
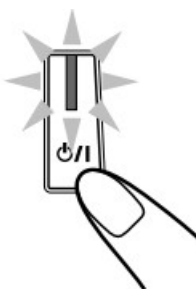
## Common Operations

Turning On or Off the Power

To turn on the unit, press ⏻ (or STANDBY/ON ⏻ on the remote control) so that the lamp on the button goes off.

```
POWER ON
```

To turn off the unit (on standby), press (or STANDBY/ON on the remote control) again so that the lamp on the button lights up.

- A little power is always consumed even while the unit is on standby.

To switch off the power supply completely, unplug the AC power cord from the AC outlet.

notes    When you unplug the AC power cord or if a power failure occurs

The clock is reset to "0:00" right away, while the tuner preset stations (see page 13) will be erased in a few days.

**Turning On or Off the Key-touch Tone**
If you do not want the key-touch tone to beep each time you press a button, you can deactivate it.

**On the remote control ONLY:**
**Press BEEP ON/OFF.**

```
BEEP OFF
```

- Each time you press the button, the key-touch tone turns on ("BEEP ON") and off ("BEEP OFF") alternately.

  BEEP OFF BEEP ON

**Saving the Power Consumption while on Standby —Ecology Mode**

You can save the power consumption while the unit is turned off (on standby).

- You can set Ecology Mode whether the unit is on or off.

**On the unit ONLY:**
To activate the Ecology Mode, press ECO.
"ECO" appears on the display for 2 seconds (and the demonstration is canceled temporarily if you have pressed the button while the unit is off).



To deactivate the Ecology Mode, press ECO again.
"NORMAL" appears (and the demonstration starts if the unit is turned off).



- Each time you press the button, "ECO" and "NORMAL" appear alternately on the display.

  **notes** When you turn off the unit with Ecology Mode activated "ECO" flashes on the display, and the clock time will not be shown while the unit is turned off.

**Selecting the Sources**
To listen to the FM/AM (MW/LW) broadcasts, press FM/AM. (See page 13.)
To play back discs, press CD 3¥8. (See pages 16 – 22.)
To play back tapes, press TAPE 2 3. (See page 23.)
To select the external equipment as the source, press AUX.
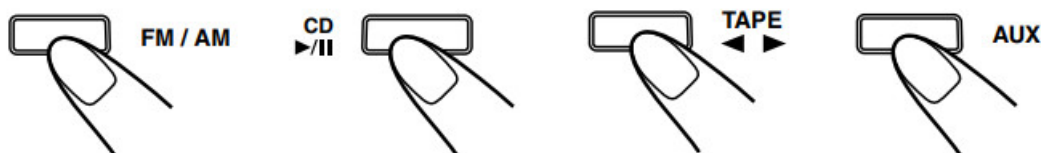
When you press the play button for a particular source (FM/AM, CD 3/8, TAPE 2 3, and AUX), the unit turns on and starts playing the source if it is ready.

**Setting the Clock**

You can set the clock whether the unit is on or off; however, if Ecology Mode is activated, you cannot set the clock while the unit is off (on standby).

If Ecology Mode is not in use while the unit is turned off (on standby), "0:00" flashes on the display until you set the clock.
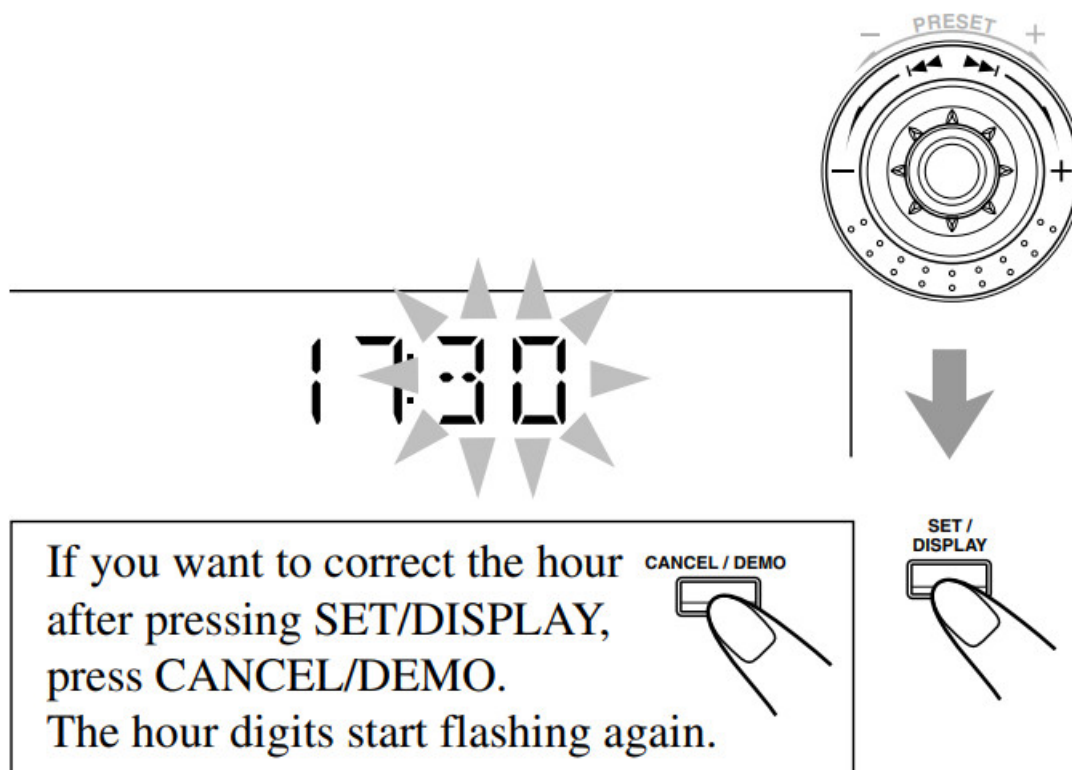
**On the unit ONLY:**

1.  Press CLOCK/TIMER.

    The hour digits start flashing on the display.



2.  Turn 4 / ¢ to adjust the hour, then press SET/DISPLAY.

    The minute digits start flashing on the display.



If you want to correct the hour after pressing SET/DISPLAY, press CANCEL/DEMO. The hour digits start flashing again.

3.  Turn ◀◀ / ▶▶ to adjust the minute, then press SET/DISPLAY.
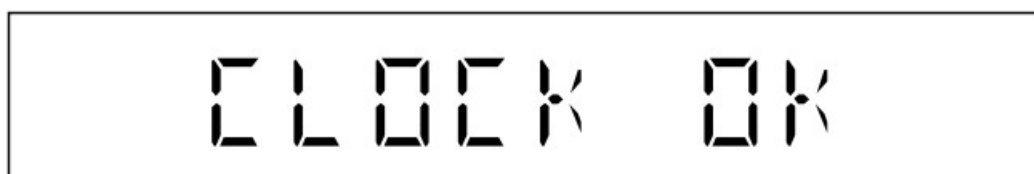
To check the clock time while playing a source Press and hold SET/DISPLAY.

- Each time you press and hold the button, the source indication and the clock time alternate on the display.

  To adjust the clock again

  If you have set the clock before, press CLOCK/TIMER repeatedly until the clock setting mode is selected.

- Each time you press the button, the clock/timer setting modes change as follows:



(The hour digits start flashing.)
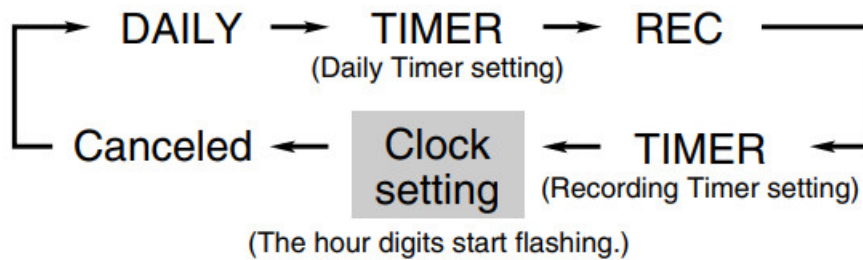
 When you unplug the AC power cord or if a power failure occurs

The clock loses the setting and is reset to "0:00." If this happens, set the clock again.

**Adjusting the Volume**
You can adjust the volume level only while the unit is turned on. The volume level can be adjusted in 32 steps (VOLUME MIN, VOLUME 1 – VOLUME 30, and VOLUME MAX).

Turn VOLUME + / – clockwise (+) to increase the volume or counterclockwise (–) to decrease it.
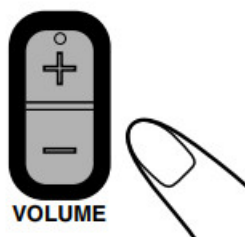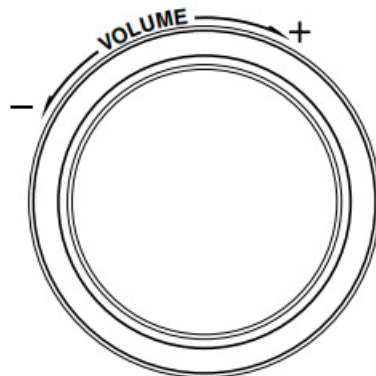


When using the remote control, press VOLUME + to increase the volume or VOLUME – to decrease it.

 **For private listening**
Connect a pair of headphones to the PHONES ( ) jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on headphones.
DO NOT turn off (on standby) the unit with the volume set to an extremely high level; otherwise, a sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the unit or start playing any source next time.
REMEMBER, you cannot adjust the volume level while the unit off (on standby).

To turn down the volume level temporarily On the remote control ONLY:
Press FADE MUTING.
The volume level gradually decreases to "VOLUME MIN."
To restore the sound, press the button again.



## Reinforcing the Bass Sound

You can select one of the 5 subwoofer levels. This function only affects the playback sound, but does not affect your recording. The subwoofer level can be adjusted in 5 steps— LEVEL 0 (MIN LEVEL), LEVEL 1, LEVEL 2, LEVEL 3, and LEVEL 4 (MAX LEVEL).
Press SUBWOOFER LEVEL + to increase the subwoofer level or SUBWOOFER LEVEL – to decrease it.



- The SUBWOOFER lamp lights up in red when LEVEL 1 to LEVEL 4 (MAX LEVEL) is selected. The lamp turns off when LEVEL 0 (MIN LEVEL) is selected.
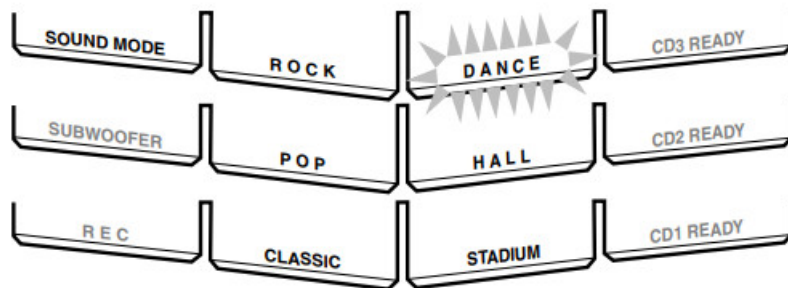
## Selecting the Sound Modes

You can select one of the 6 preset sound modes (3 surround modes and 3 SEA—Sound Effect Amplifier—modes) and 3 user modes. This function only affects the playback sound, but does not affect your recording. Each Sound Mode has its own illumination display.
To select the sound modes, turn SOUND MODE (or press SOUND MODE on the remote control) until the sound mode you want appears on the display.
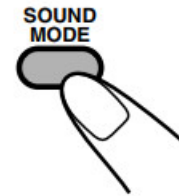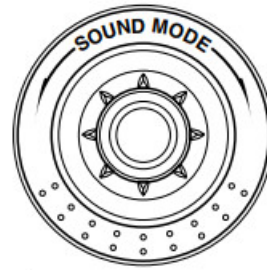
- When a sound mode is selected, the lamp for the selected sound mode (in this example, DANCE) flashes while the SOUND MODE and the other sound mode lamps light up.



- When one of the user modes (USER 1, USER 2, or USER 3) is selected, only the SOUND MODE lamp lights up.
- When the sound mode is canceled ("OFF" is selected), all sound mode lamps including the SOUND MODE lamp go off.

The sound modes change as follows:
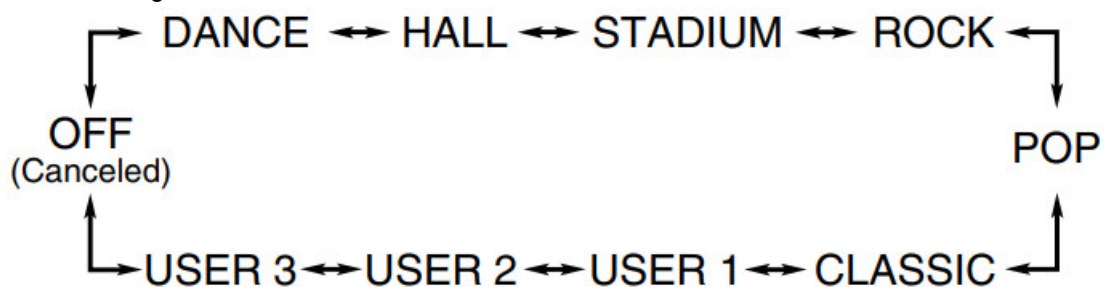


When using the remote control, the sound mode changes only clockwise in the above sequence. Surround modes*
DANCE: Increases resonance and bass.
HALL: Adds depth and brilliance to the sound.
STADIUM: Adds clarity and spreads the sound, like in an outdoor stadium.
SEA (Sound Effect Amplifier) modes
ROCK: Boosts low and high frequency. Good for acoustic music.
POP: Good for vocal music.
CLASSIC: Good for classical music.
User Modes
USER 1/2/3: Your individual mode stored in memory. See
"Creating Your Own Sound Mode—User
Mode" on page 12.

OFF: The sound mode is canceled.
* Surround elements are added to the SEA elements to create a being-there feeling in your room.


**Creating Your Own Sound Mode—User Mode**
You can change SEA pattern to suit your preference. The SEA pattern can be adjusted using 5 frequency ranges —LOW1, LOW2, MID, HIGH1, and HIGH2. These changed settings can be stored in the USER 1, USER 2, and USER 3 modes.


- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.


On the unit ONLY:


1. Select one of the preset sound modes.

   • If you want to add the surround elements in your SEA pattern, select one of the surround modes (DANCE, HALL, or STADIUM) before starting the procedure below. (See "Selecting the Sound Modes" on page 11.)

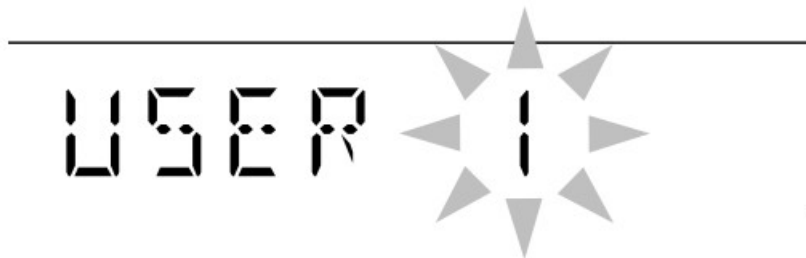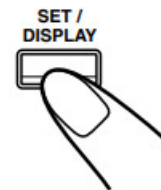2. Press SET/DISPLAY while the selected sound mode is still shown on the display.



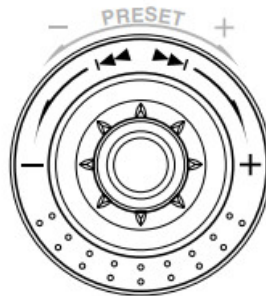Current level appears.
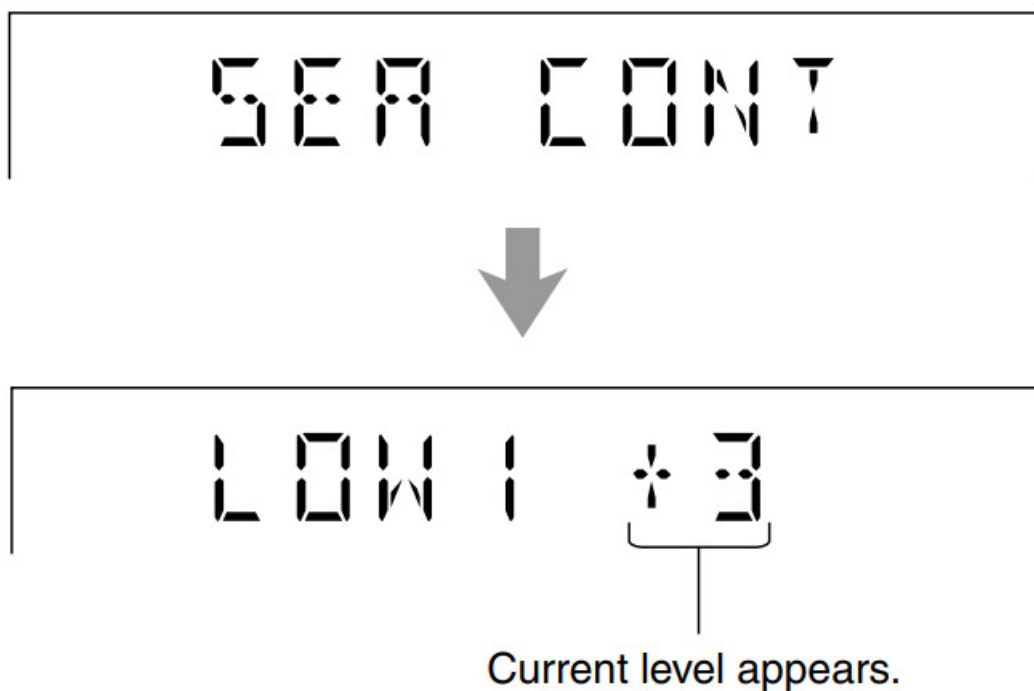
3. Adjust the SEA pattern.

   1) Turn ◄◄ / ►► to select the frequency range (LOW1, LOW2, MID, HIGH1, or HIGH2).
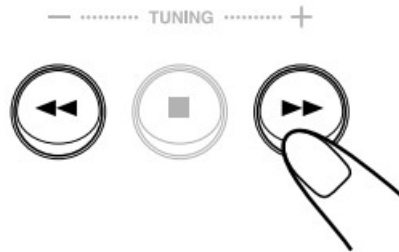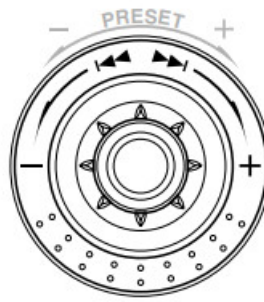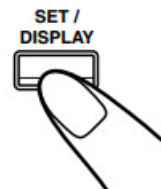
4. Press SET/DISPLAY again.



5. Turn ◄◄ / ►► to select one of the user modes (USER 1, USER 2, or USER 3) in which you want to store your SEA pattern.



6. Press SET/DISPLAY again.



The SEA pattern you have created are stored into the user mode selected in step 5.

**To use your own sound mode**

Select USER 1, USER 2, or USER 3 mode when using the sound modes. See "Selecting the Sound Modes" on page 11.

When you unplug the AC power cord or if a power failure occurs
The setting will be erased in a few days. If this happens, set the user modes again.
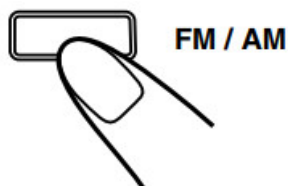
## Listening to FM and AM (MW/LW) Broadcasts

### Tuning in to a Station

1. Press FM/AM.

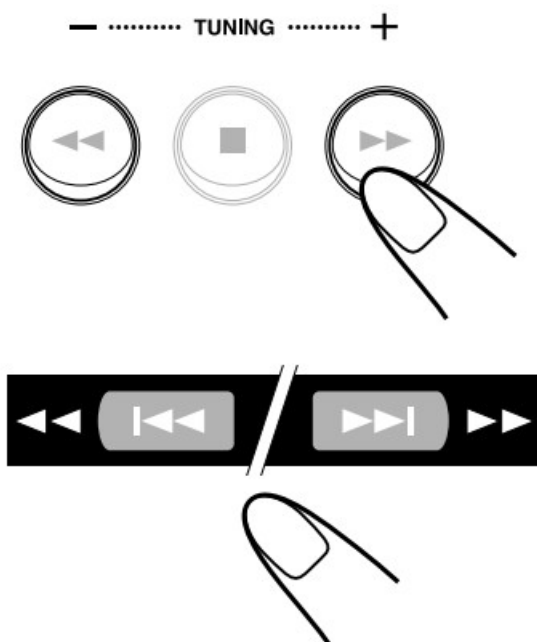   The unit automatically turns on and tunes in to the previously received station (either FM or AM—MW/LW).

   • Each time you press the button, the band alternates between FM and AM (MW/LW).



2. Start searching for stations.

   On the unit:

   Press and hold TUNING + or TUNING – for more than 1 second.



3. On the remote control:

   Press and hold ◄◄ / ►► or 4 (1) for more than 1 second.

   The unit starts searching for stations and stops when a station of sufficient signal strength is tuned in.

   • If a program is broadcast in stereo, the ST (stereo) indicator lights up.


To stop searching, press TUNING + or TUNING – (or ¢ (¡) / 4 (1) on the remote control).
When you press TUNING + or TUNING – (or ¢ (¡) /4 (1) on the remote control) briefly and repeatedly The frequency changes step by step.
To change the FM reception mode
On the remote control ONLY:

When an FM stereo broadcast is hard to receive or noisy, press FM MODE so that the MONO indicator lights up on the display. Reception improves.
FM MODE

To restore the stereo effect, press FM MODE again so that the MONO indicator goes off. In this stereo mode, you can hear stereo sounds when a program is broadcasted.

To change the FM reception mode On the remote control ONLY:
When an FM stereo broadcast is hard to receive or noisy, press FM MODE so that the MONO indicator lights up on the display. Reception improves.
**FM MODE**
To restore the stereo effect, press FM MODE again so that the MONO indicator goes off. In this stereo mode, you can hear stereo sounds when a program is broadcasted.

## Disc Play Introduction

This unit has been designed to play back the following discs:

- CD (Audio CD)
- CD-R (CD-Recordable)
- CD-RW (CD-ReWritable)
- MP3 disc (MP3 files recorded on a CD-R or CD-RW)

When playing a CD-R or CD-RW
User-edited CD-Rs (CD-Recordable) and CD-RWs
(CD-ReWritable) can be played back only if they are already "finalized."

- You can play back your original CD-Rs or CD-RWs recorded in music CD format or in MP3 format. (However, they may not be played back depending on their characteristics or recording conditions.)
- Before playing back CD-Rs or CD-RWs, read their instructions or cautions carefully.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, damage or stain on them, or if the player's lens is dirty.
- CD-RWs may require a longer readout time. This is caused by the fact that the reflectance of CD-RWs is lower than for regular discs.

**About the CD ready lamps**
Each CD ready lamp corresponds to the disc tray of the same number.

- When and why they light up?
  – When you turn on the unit for the first time after plugging into a wall outlet, all CD ready lamps (CD1 READY, CD2 READY, and CD3 READY) light up.
  From the next time on, CD ready lamp(s) light(s) up according to the previous condition.
  – Each time you press the disc tray open/close buttons
  —0 (CD1, CD2, and CD3), the corresponding CD ready lamp lights up.
  • When and why they go off?
  Only when the unit detects there is no disc loaded on a certain tray, the corresponding CD ready lamp goes off.
  ("NO DISC 1," "NO DISC 2," or "NO DISC 3" appears on the display.)
  • When and why they flash?
  The corresponding CD ready lamp flashes during playback and pause.
  If the loaded disc is an MP3 disc
  The corresponding CD ready lamp and the MP3 indicator will light up.

**MP3 Introduction**

What is MP3?

MP3 is an abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. MP3 is simply a file format with a data compression ratio of 1:10 (128 kbps*). By using

MP3 format, one CD-R or CD-RW can contains 10 times as much data volume as a regular CD can.

* Bit rate is the average number of bits that one second of audio data will consume. The unit uses kbps (1,000 bits per second). To get a better audio quality, choose a higher bit rate. The most popular bit rate for encoding (recording) is  128 kbps.

**MP3 disc structure**

On an MP3 disc, each song (material) is recorded as a file.

Files are grouped into a directory (or folder). Directories canalso include other directories, creating hierarchical directory layers. (See "How are MP3 files recorded and played back?" on page 17.)

This unit manages files and directories as "tracks" and "groups."

This unit can recognize up to 255 tracks per disc, up to 64 groups per disc. The unit ignores those exceeding the maximum numbers and cannot play them back.

 **About MP3 discs**

- MP3 discs (either CD-R or CD-RW) require a longer readout time. (It varies due to the complexity of the recording configuration.)

- When making an MP3 disc, select ISO 9660 Level 1 or Level 2 as the disc format.

- This unit does not support multisession recording.

- This unit can play MP3 files only with the following file extensions— ".MP3," ".Mp3," ".mP3," and ".mp3."

- Files other than MP3 are ignored.

- Some MP3 discs may not be played back because of their disc characteristics or recording conditions.

**How are MP3 files recorded and played back?**

MP3 "tracks (files)" can be recorded in "group"—folders or directories, in PC terminology.

During recording, the tracks and groups can be arranged similarly to the tracks and folders/directories of computer data. "Root" is similar to the root of a tree. Every track and group can be linked to the root.

In compliance with ISO 9660, the maximum allowable depth of nested directories—so called "hierarchy"—is eight (inclusive of the root).

Playback order, track search order, and group search order of the MP3 tracks recorded on a disc are determined by the writing (or encoding) application; therefore, playback order may be different from the one you have intended while recording the groups and the tracks.

The illustration shows an ordinary example of how MP3 tracks are recorded on a CD-R or CD-RW, how they are played back and how they are searched for on this unit.

- The numbers in circles next to the MP3 tracks ( ) indicate the playback order and search order of the MP3 tracks. Normally this unit plays back MP3 tracks in the recorded order.

- The numbers inside the groups indicate the playback order and search order of the groups on an MP3 disc.

  Normally this unit plays back MP3 tracks in the groups in the recorded order.

  The groups marked with asterisk (*) will be skipped since they do not include any MP3 tracks.
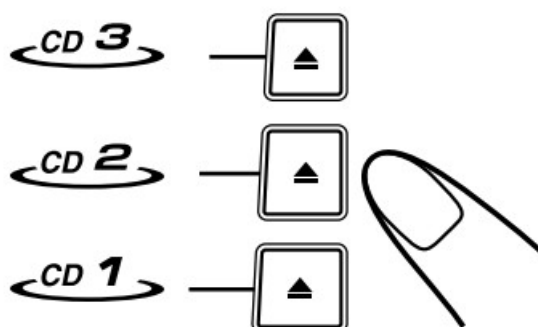
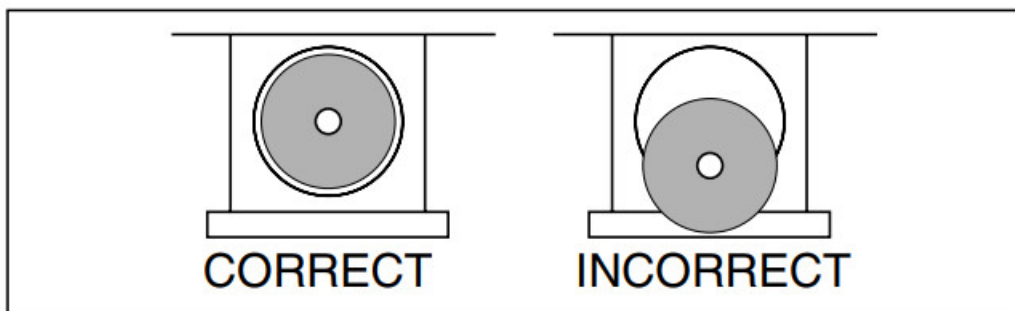**MP3 group/track configuration:**
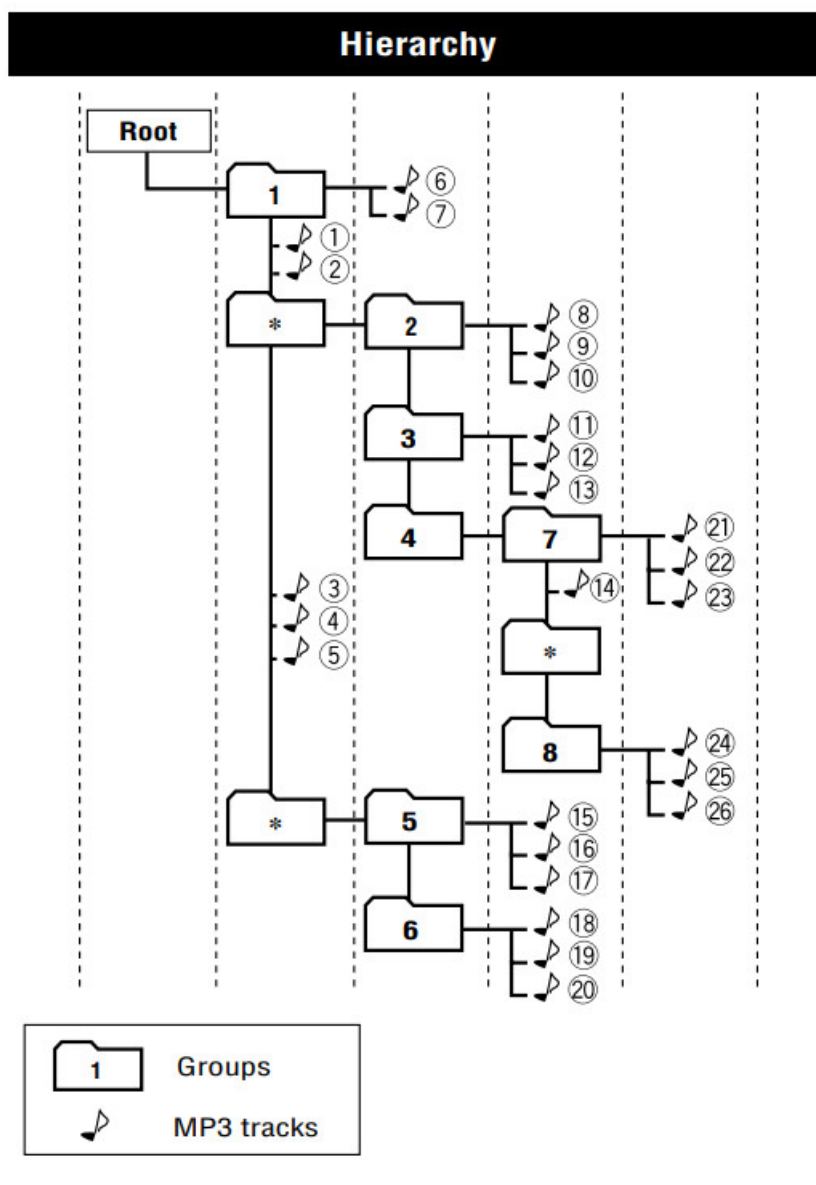
## Playing Back Discs

### Loading Discs
On the unit ONLY:

1. Press ⏏ for the disc tray (CD1, CD2, or CD3) you want to load a disc onto.

   The unit automatically turns on and the disc tray comes out.



2. Place a disc correctly on the circle of the disc tray, with its label side up.

CORRECT                    INCORRECT

**Playing Back the Entire Discs—Continuous Play**

You can play discs continuously.

- If you start Continuous Play with an MP3 disc, you can select a track you want to start playback with.

**For audio CDs**

1. Load discs.
2. Press one of the disc number (CD1, CD2, or CD3) buttons for the disc you want to play.

   The unit searches for the disc, and starts playing with the first track of the selected disc.
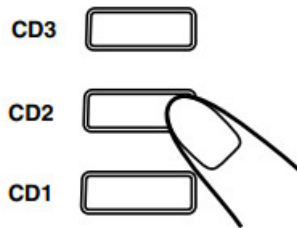


Track number   Elapsed playing time
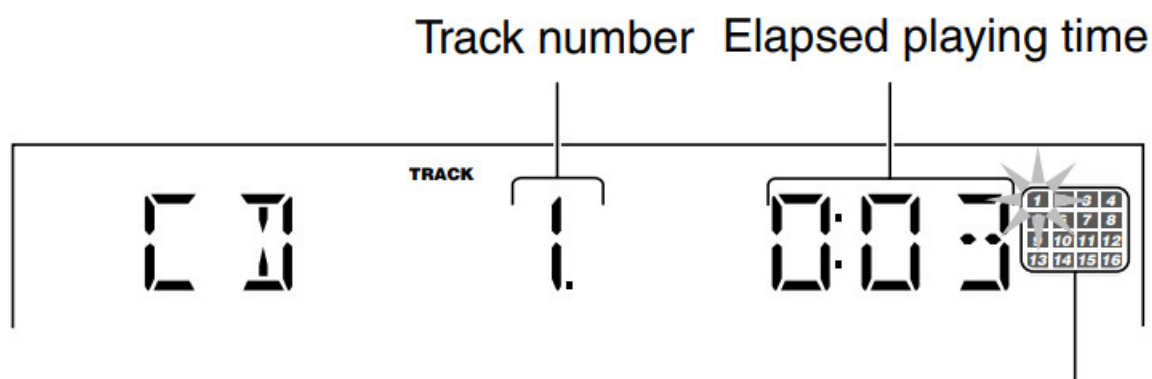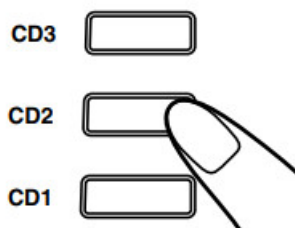
Tracks of the currently playing CD (Track numbers exceeding 16 are not displayed.)

**For MP3 discs**

1. Load discs.
2. Press one of the disc number (CD1, CD2, or CD3) buttons for the disc you want to play.

   The unit searches for the disc (it may takes time), and the following information appears on the display.
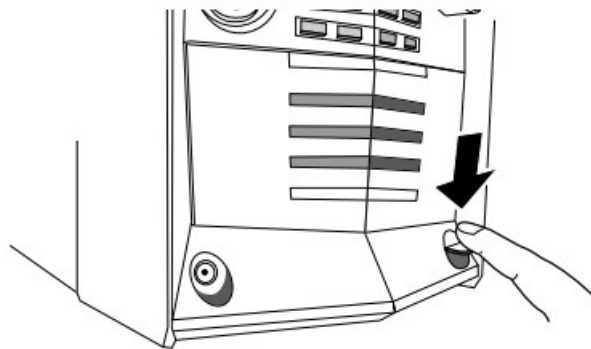
## Playing Back Tapes

You can play back type I tapes without changing any settings.
**Playing Back a Tape**

1.  Press ⏏ EJECT for the cassette deck.



2.  Insert a cassette with the exposed part of the tape down.



3.  Close the cassette holder gently.
4.  Press TAPE 2 3.

    The tape play starts and the tape direction indicator (3 or 2 ) starts flashing slowly to indicate the tape running

    direction.

    • Each time you press the button, the tape direction changes and "REVERSE" appears for a while on the

    display.

    : plays the front side.

    : plays the reverse side.

    • If no cassette is inserted, "NO TAPE" appears on the display.

    When the tape plays to the end, the deck automatically stops if the Reverse Mode is off. (See "To play both

    sides repeatedly—Reverse Mode.")

**To stop playing, press 7**.
To fast-wind to the left or to the right, press 1 or ◀◀ / ▶▶ on the remote control) while the tape is not running.

The tape direction indicator (3 or 2 ) starts flashing quickly on the display.
To remove the cassette, press 0 EJECT to open the cassette holder.

**To play both sides repeatedly—Reverse Mode**
When using Reverse Mode, the tape automatically reverses at the end of one side, starts playing the other side of the tape, and repeats the same process.

**On the unit ONLY:**
To use Reverse Mode, press REVERSE MODE so that the Reverse Mode indicator lights up on the display like— (⊐).
To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up on the display like —.

**Locating the Beginning of a Song—Music Scan**
You can use Music Scan to locate the beginning of a song.
Music Scan searches for blank portions that usually separate recorded songs, then plays the next song.

**To find the beginning of the current song**
During play, press ◄◄ / ►► on the remote control) in the opposite direction to the tape play.
The tape direction indicator of the opposite direction to the tape play starts flashing intermittently.
Searching stops automatically at the beginning of the current song, and it starts automatically.
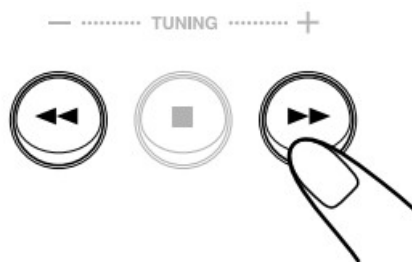


**To find the beginning of the next song**

During play, press 1 on the remote control) in the same direction as the tape play.
The tape direction indicator of the same direction as the tape play starts flashing intermittently.
Searching stops automatically at the beginning of the next song, and it starts automatically.

*notes* Music Scan works by detecting a 4-second long blank between each song, so it will not work well in the following cases

- No blank at the beginning of a song.
- Noise (often caused by much use or poor quality dubbing) which fills the blank.
- Long, very soft passages or pauses in a song.

*STOP!* The use of the C-120 or thinner tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinchrollers and the capstans.
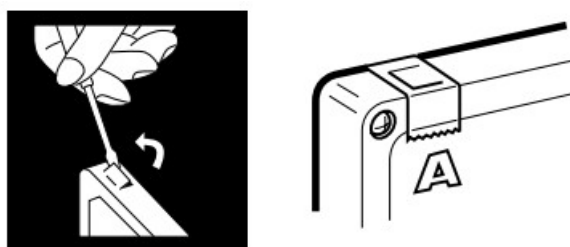
**Recording**

**IMPORTANT:**

- It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable program and in any literary, dramatic, musical, or artistic embodied therein.
- The recording level is automatically set correctly, so it is not affected by the VOLUME, the SUBWOOFER LEVEL, and the SOUND MODE controls. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- If there are excessive noise or static in the recording you have made, the unit may be too close to a TV. Increase the distance between the TV and the unit.
- You can use type I tape for recording.

**To protect your recording**
Cassettes have two small tabs on the back to protect from unexpected erasure or rerecording. To protect your recording, remove these tabs.
To re-record on a protected tape, cover the holes with adhesive tape.



**To keep the best recording and playback sound quality**
If the heads, capstans, and pinch rollers of the cassette deck become dirty, the following will occur:

- Impaired sound quality
- Discontinuous sound
- Fading
- Incomplete erasure
- Difficulty in recording

To clean the heads, capstans, and pinch rollers Use a cotton swab moistened with alcohol.

1. Press ⏏EJECT and insert a recordable cassette with the exposed part of the tape down.



2. Close the cassette holder gently.
   • If you want to record on both sides of a tape, see "To record on both sides—Reverse Mode."

3. Check the tape direction of the cassette deck.

   • If the tape direction is not correct, press TAPE 2 3 twice then 7 to change the tape direction.

4. Start playing the source—FM, AM (MW/LW), CD player, or auxiliary equipment connected to AUX jacks.

   • When the source is the CD player, you can also use Direct Recording—(see page 25), and Auto Edit

   Recording (only for audio CDs)—(see page 26).

5. Start recording.

   On the unit:

   Press REC START/STOP.
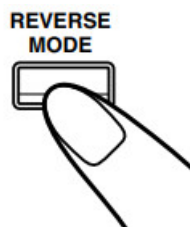


   On the remote control:

   Press and hold REC START/STOP for more than 1 second.

   The REC (recording) lamp flashes when recording starts, and the tape direction indicator (3 or 2 ) starts

   flashing slowly.

   • If no cassette is inserted, "NO TAPE" appears on the display. If a protected tape is inserted, "NO REC"

   appears on the display.


To stop recording immediately, press REC START/STOP or ■ (or press and hold REC START/STOP on the remote control for more than 1 second).

To remove the cassette, press ▲EJECT to open the cassette holder.


**To record on both sides—Reverse Mode On the unit ONLY:**
Press REVERSE MODE so that the Reverse Mode indicator lights up on the display like—.


• When using the Reverse Mode for recording, start recording in the forward (3) direction first. Otherwise,

  recording will stop when only one side (reverse) of the tape is recorded.

  To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up on the display

  like— .


## Using the Timers


There are three timers available—DAILY (Daily Timer), REC (Recording Timer), and SLEEP (Sleep Timer).
You can set the timers whether the unit is on or off; however, if Ecology Mode is activated, you cannot set the timers while the unit is off.
Before using the timers, set the clock built in the unit. (See page 10.)


**Using Daily Timer**
With Daily Timer, you can be wake up with your favorite music or radio program.
**How Daily Timer actually works**
The unit automatically turns on, sets the volume level to the preset level, and starts playing the specified source when the on-time comes. ("DAILY" and the DAILY indicator flash just before the on-time, and the DAILY indicator continues flashing while the timer is operating.) Then, when the offtime comes  ("DAILY OFF" flashes just before the off-time), the unit  automatically turns off (on standby).
The Daily Timer works everyday automatically. If you do not want to use the Daily
Timer, turn it off. (See "To turn on or off Daily

Timer after its setting is done" on page 28.)
The timer setting remains in memory until you change it.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- To correct a misentry while setting the timer, press CANCEL/DEMO.

**Before you start…**

- When using a disc as the source to play—
  – Make sure there is a disc on the selected disc tray.
- When using a tape as the source to play—
  – Make sure that a tape is in the cassette deck.
  – Make sure that the tape direction is correct.
- When using the external component as the source to play—
  – Set the timer equipped on the external component at the same time.

**On the unit ONLY:**

1. Press CLOCK/TIMER repeatedly until "DAILY" appears on the display.

   The (Timer) indicator lights up and the DAILY (Daily Timer) indicator also starts flashing on the display.

Total track number

Total playing time

Group title of the 1st group*

Group number flashes.
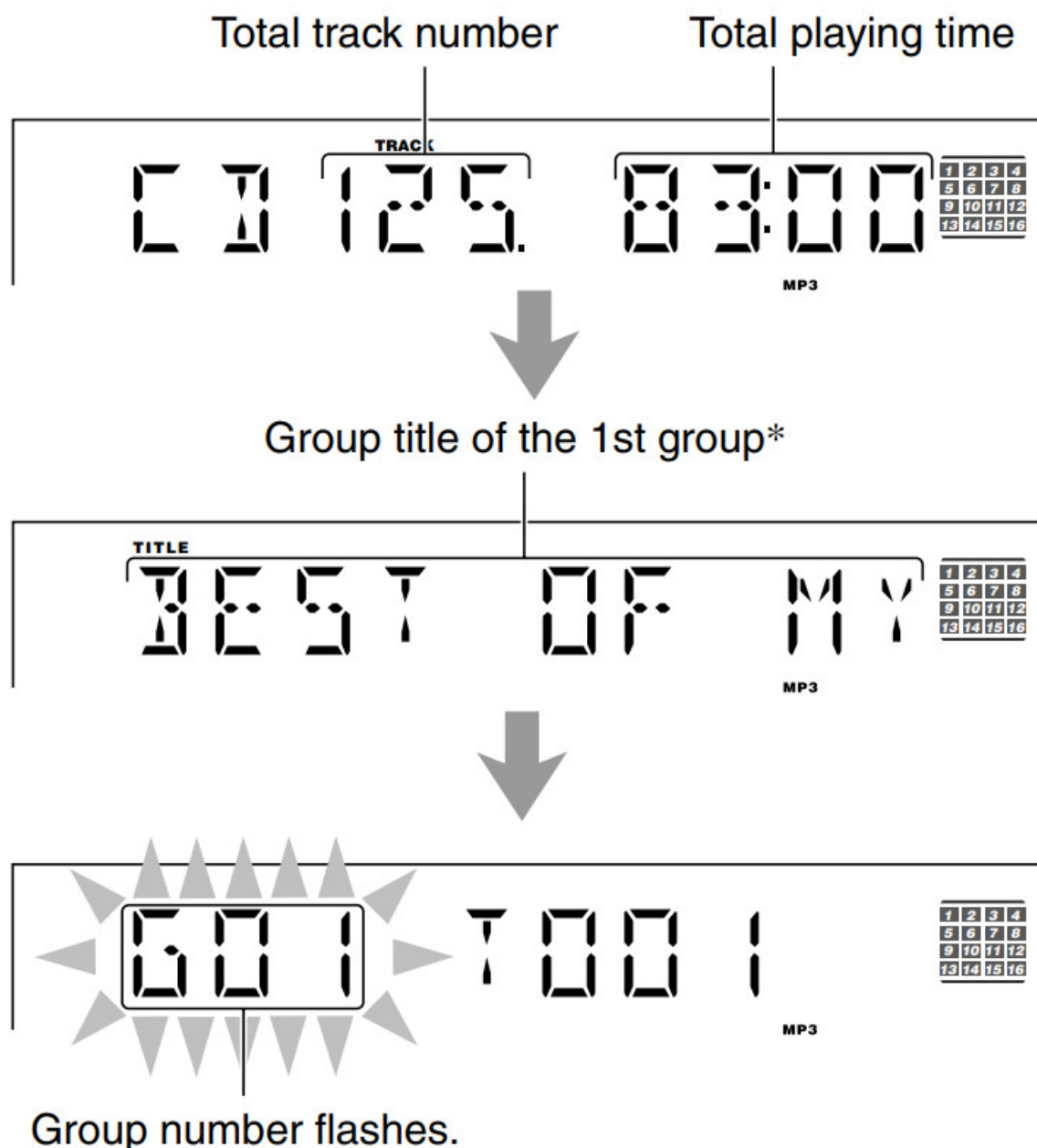
2.  Press CLOCK/TIMER again.

"TIMER" appears for 2 seconds, then the unit enters on-time setting mode.

**Additional Information**

**Description of the PTY codes:**

| NEWS: | News. |
|---|---|
| AFFAIRS: | Topical program expanding or enlarging upon the news—debate, or analysis. |
| INFO: | Program the purpose of which is to impart advice in the widest sense. |
| SPORT: | Program concerned with any aspect of sports. |
| EDUCATE: | Educational programs. |
| DRAMA: | All radio plays and serials. |

| | |
|---|---|
| CULTURE: | Programs concerning any aspect of national or regional culture, including language, theatre, etc. |
| SCIENCE: | Programs about natural sciences and technology. |
| VARIED: | Commercial music of current popular appeal. |
| POP M: | Rock music. |
| ROCK M: | Current contemporary music considered to be "easy-listening." |
| EASY M: | Instrumental music, and vocal or choral works. |
| LIGHT M: | Performances of major orchestral works, symphonies, chamber music, etc. |
| CLASSICS: | Performances of major orchestral works, symphonies, chamber music, etc. |
| OTHER M: | Music not fitting into any of the other categories. |
| FINANCE: | Stock Market reports, commerce, trading etc. |
| CHILDREN: | Programs targeted at a young audience. |
| SOCIAL: | Programs about sociology, history, geography, psychology and society. |
| RELIGION: | Religious programs. |
| PHONE IN: | Involving members of the public expressing their views either by phone or at a public forum. |
| TRAVEL: | Travel information. |
| LEISURE: | Programs about recreational activities. |
| JAZZ: | Jazz music. |
| COUNTRY: | Songs which originate from, or continue the musical tradition of the American Southern States. |
| NATION M: | Current popular music of the nation or region in that country's language. |
| OLDIES: | Music from the so-called "golden age" of popular music. |
| FOLK M: | Music which has its roots in the musical culture of a particular nation. |
| DOCUMENT: | Program concerning factual matters, presented in an investigative style. |
| TEST: | Broadcasts for testing emergency broadcast equipment or receiver. |

| ALARM: | Emergency announcement. |
|--------|------------------------|

Classification of the PTY codes for some FM stations may be different from the above list.

## Maintenance

To get the best performance of the unit, keep your discs, tapes, and mechanism clean.

**General Notes**
In general, you will have the best performance by keeping your discs and the mechanism clean.

- Store discs in their cases, and keep them in cabinets or on shelves.
- Keep the unit's disc trays closed when not in use.

**Handling discs**

**Cleaning the unit**

- Stains on the unit

  Should be wiped off with a soft cloth. If the unit is heavily stained, wipe it with a cloth soaked in water diluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- Since the unit may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following.
  — DO NOT wipe it with a hard cloth.
  — DO NOT wipe it strong.
  — DO NOT wipe it with thinner or benzine.
  — DO NOT apply any volatile substance such as insecticides to it.
  — DO NOT allow any rubber or plastic to remain in contact with it for a long time.

## Troubleshooting

If you are having a problem with your unit, check this list for a possible solution before calling for service.
If you cannot solve the problem from the hints given here, or the unit has been physically damaged, call a qualified person, such as your dealer, for service.

| Symptom | Cause | Action |
|---------|-------|--------|
| Unable to cancel the demonstration. | The button other than CANCEL/DEMO is pressed to cancel the demonstration temporarily. | Press CANCEL/DEMO on the unit. (See page 8.) |
| No sound is heard. | Connections are incorrect or loose. | Check all connections and make corrections. (See pages 6 to 8.) |
| | The built-in microprocessor may malfunction due to external electrical interference. | The built-in microprocessor may malfunction due to external electrical interference. |

## Specifications

Amplifier section
Output Power (IEC 268-3/DIN)
SUBWOOFERS:
100 W per channel, min. RMS, both
channels driven into 6 Ω at 63 Hz with no
more than 0.9% total harmonic distortion.
MAIN SPEAKERS: 30 W per channel, min. RMS, both
channels driven into 6 Ω at 1 kHz with no
more than 0.9% total harmonic distortion.
Audio input sensitivity/Impedance
(Measured at 1 kHz, with tape recording signal 300 mV)
AUX: 390 mV/50 kΩ
Digital output: CD OPTICAL DIGITAL OUTPUT
Signal wave length: 660 nm
Output level: –15 dBm to –12 dBm
Speakers/Impedance:
SUBWOOFERS:
6 Ω – 16 Ω
MAIN SPEAKERS: 6 Ω – 16 Ω

### Tuner
FM tuning range: 87.50 MHz – 108.00 MHz
AM tuning range: MW: 522 kHz – 1 629 kHz
LW: 144 kHz – 288 kHz

### CD player
CD capacity: 3 CDs
Dynamic range: 85 dB
Signal-to-noise ratio: 90 dB
Wow and flutter: Immeasurable
MP3 recording format: MPEG 1/2 Audio Layer 3
Max. Bit rate: 320 kbps

### Cassette deck
Frequency response
Normal (type I): 50 Hz – 14 000 Hz
Wow and flutter: 0.15% (WRMS)

# JVC

VICTOR COMPANY OF JAPAN, LIMITED

## Documents / Resources

**JVC CA-HXZ3R Compact Component System** [pdf] Instructions
CA-HXZ3R, HX-Z3R, CA-HXZ3R Compact Component System, Compact Component System,
Component System

## References

-  **User Manual, users guide, operation instruction**
-  **User Manual, users guide, operation instruction**
- **User Manual**